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MATRIXNEWORLD
Engineering Progress

August 8, 2024

Chris Rutishauser, P.E., CPWM
Director of Public Works/Village Engineer
Village of Ridgewood
131 North Maple Avenue
Ridgewood, New Jersey 07450

Re: IMPORTED BERM MATERIAL EVALUATION – GRID SAMPLING
VILLAGE OF RIDGEWOOD HISTORIC SITE – SCHEDLER PROPERTY
460 WEST SADDLE RIVER ROAD
VILLAGE OF RIDGEWOOD, BERGEN COUNTY, NEW JERSEY 07450
NJDEP CASE NO. 24-05-28-1117-27
PI No. 1062723
MATRIX NO. 23-1429

Dear Mr. Rutishauser:

Matrix New World Engineering, Land Surveying, and Landscape Architecture, PC (Matrix) has prepared this letter report detailing the recent soil sampling activities at the above referenced site located at 460 West Saddle River Road, Village of Ridgewood (Ridgewood), New Jersey (Site). The work performed and summarized below was conducted for Ridgewood to assess the quality of imported soil utilized for creation of a soil berm adjacent to New Jersey State Highway Route 17, along the southern side of the Site. Per the New Jersey Department of Environmental Protection's (NJDEP) correspondence on April 3, 2024, an investigation of the balance of the property, outside of the soil berm, was requested.

BACKGROUND

Matrix understands that Ridgewood received correspondence from the NJDEP Bureau of Solid Waste Compliance & Enforcement (BSWCE) on December 11, 2023, questioning the sources and quality of the fill material that were imported to the Site to create the berm (Appendix A). Based on this correspondence from the NJDEP, it appears that approximately 10,000 cubic yards of fill material was imported to the Site to create the soil berm, as well as possibly filling other low areas of the Site. Subsequently, Ridgewood retained Matrix to complete a review of the data associated with the fill material and respond to the NJDEP with a Sampling and Analysis Plan (SAP). On April 2, 2024 Matrix submitted a SAP to the NJDEP detailing the scope of work for the sampling of the berm and filled in areas, which was conditionally approved by NJDEP on April 3, 2024. The conditional approval was based on NJDEP's request for

additional sampling among the balance of the Site, outside of the constructed soil berm. The SAP and Signed Conditional SAP Approval are included as Appendix B and C.

On May 3, 2024 Matrix performed a soil investigation on the Berm portion of the Site. A total of 14 soil samples (SB-1 through SB-14) were collected throughout the berm for laboratory analysis and were analyzed for Target Compound List (TCL) Semi-volatile Organic Compounds (SVOCs) and Target Analyte List (TAL) Metals. Soil samples SB-1, SB-3 through SB-5, SB-7, SB-8, SB-10 through SB-12, and SB-14 were additionally analyzed for TCL Pesticides and polychlorinated biphenyls (PCBs). Several sample locations were identified with concentrations of benzo(a)anthracene, lead, and mercury exceeding the NJDEP's Migration to Groundwater Soil Remediation Standard (MGW-SRS). Additionally, concentrations of benzo(a)pyrene were detected exceeding the NJDEP's Residential Ingestion-Dermal Soil Remediation Standard (RIDSRS) in several samples. Due to the RIDSRS exceedance of benzo(a)pyrene, as well as the MGWSRS exceedances of benzo(a)anthracene lead, and mercury, identified in the soils associated with the imported material, Matrix notified the NJDEP via the NJDEP's Spill Hotline on May 28, 2024. NJDEP assigned Case No. 24-05-28-1117-27 and Program Interest Number 1062723 to the Site. Subsequently, Matrix submitted a Confirmed Discharge Notification (CDN) form on June 10, 2024. A Synthetic Participation Leaching Procedure (SPLP) was performed for benzo(a)anthracene, lead, and mercury and Site-Specific Alternative Remediation Standards (ARS) for each were calculated utilizing the SPLP results. Concentrations of benzo(a)anthracene, lead, and mercury detected in the fill material were below their respective Site-Specific ARS. The berm sampling letter report is included in Appendix D.

GRID SOIL INVESTIGATION

The following section presents a technical overview of investigation activities performed by Matrix at the Site on June 26 and 27, 2024. Soil samples were collected in general accordance with NJDEP's Technical Requirements for Site Remediation (TRSR) N.J.A.C. 7:26E, NJDEP's Field Sampling Procedures Manual (FSPM), and any other applicable NJDEP Guidance Documents. The objective of the grid soil investigation was to complete soil sampling activities to determine if there were potential impacts throughout the Site associated with the materials imported to the Site.

All soil samples were submitted to a NJDEP certified laboratory, SGS Laboratories of Dayton, New Jersey (#12129) within the prescribed field holding times and were received intact, and properly preserved. Matrix submitted all laboratory data to a third-party independent data validator, Nankoweep Environmental Consulting (Nankoweep) to review holding times, confirm that each analysis method met quality control requirements, and method blanks met method specific requirements.

The applicable remediation standards for soil at this Site are the NJDEP's May 2021 Migration to Groundwater Exposure Pathway Soil Remediation Standards (MGWSRS) and the most stringent of the NJDEP's May 2021 Non-Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards (NRIDSRS); Non-Residential Inhalation Exposure Pathway Soil Remediation Standards (NRISRS); Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards (RIDSRS); and the Residential Inhalation Exposure Pathway Soil Remediation Standards (RISRS).

Matrix retained Environmental Probing, Inc. (EPI) of Cream Ridge, New Jersey to advance a total of 29 soil borings using hand tools or Geoprobe® direct push technology on June 26 and 27, 2024 throughout the Site within pre-determined grid locations. A Matrix representative provided full-time oversight of drilling activities. In addition, a representative from the NJDEP's BSWCE was present during the soil sampling. All soil borings were advanced to depths ranging from 1.5 feet to 10 feet below ground surface (BGS) with five-foot sampling cores using dedicated acetate sleeves if utilizing the Geoprobe. The soil was visually inspected for any potential visual or olfactory impacts, screened with a photoionization detector (PID) (MiniRae parts per million [ppm] meter) for organic vapors and logged for material content and lithology. Soil samples were collected at the discrete six-inch interval that displayed the greatest likelihood of contamination based on field measurements and/or other evidence of contamination (i.e., staining, odor, elevated PID reading, etc.). Based on the approved NJDEP SAP, a total of 28 grid soil samples (GRID-1 through GRID-28) were collected and submitted for laboratory analysis. Soil Samples GRID-1 through GRID-28 were analyzed for TCL SVOCs, TCL Pesticides, PCBs, TAL Metals, and Hexavalent Chromium. Soil samples with PID readings greater than or equal to 10 parts per million (ppm) above ambient background (GRID-11 and GRID-21) were additionally analyzed for TCL volatile organic compounds (VOCs). An additional soil sample (SB-12R) was collected at 3.0-3.5 feet bgs in the former location of SB-12 within the berm and analyzed for VOCs. Quality Assurance/Quality Control (QA/QC) samples including two duplicate samples and a field blank were collected and analyzed for TCL SVOCs, TAL Metals, TCL Pesticides, and PCBs.

All grid soil borings were advanced within the limits of the pre-determined sampling grid at locations requested by the NJDEP's representative where imported fill was observed to be present. All grid samples (GRID-1 through GRID-28) were collected at depths of approximately 1.0-1.5' bgs, as field screening/observations indicated that interval displayed the greatest likelihood of contamination. The soil encountered throughout the grid predominantly consisted of a brown sandy silt. There were no observations of an odor, staining, or sheen throughout the soil column in grid sample locations GRID-1 through GRID-20 and GRID-22 through GRID-28. Two sample locations exhibited elevated PID readings: GRID-11 with a reading of 74.2 ppm and GRID-21 with a PID reading of 2,100 ppm. A slight odor was also noted in the GRID-21 sample.

During the May 3, 2024 soil investigation, the SB-12 soil boring location exhibited a dark brown clay material from 3 to 5 feet bgs, and a PID reading of 67.5 ppm was observed at 3 feet bgs. In order to further assess this location, sample SB-12R was collected from a depth of 3.0 to 3.5 feet bgs on June 27, 2024 and submitted for laboratory analysis for VOCs. There were no observations of an odor, staining, or sheening throughout the soil column at SB-12R and the analytical results did not indicate detectable concentrations of VOCs in the sample. Analytical results for SB-12R are included in Table 3. Groundwater was not encountered within any of the boring locations.

A sample summary table is included as Table 1. Soil boring locations are shown on Figure 2 and soil boring logs are provided in Appendix E. The soil sample analytical results are summarized below.

The Nankoweep data validation report is included as Appendix G. Additional information regarding the reliability of the laboratory analytical data can be found in the Case Narrative/Conformance Summary section of the laboratory analytical reports for soil and groundwater included in Appendix F.

Laboratory analytical results indicated that three analytes, benzo(a)anthracene, lead, and mercury, were each identified in samples at concentrations exceeding respective NJDEP's MGWSRS in several samples, but below their applicable calculated Site-Specific ARS with the following exceptions: samples GRID-18 and GRID-20 exhibit benzo(a)anthracene concentrations (2.37 milligrams per kilogram [mg/kg] to 3.37 mg/kg) exceeding the Site-Specific ARS and NJDEP's MGWSRS at a depth of 1.0-1.5 feet BGS and sample GRID-10A exhibits a mercury concentration of 1.00 mg/kg, exceeding the Site-Specific ARS and NJDEP's MGWSRS at a depth of 1.0-1.5 feet BGS. Benzo(a)pyrene was identified in multiple samples at concentrations exceeding the NJDEP's RIDSRS and NRIDSRS. Six soil samples, GRID-4, GRID-11, GRID-16, GRID-21, GRID-26 and GRID-28 exhibited benzo(a)pyrene concentrations (0.642 mg/kg to 0.997 mg/kg) exceeding the NJDEP's RIDSRS at a depth of 1.0-1.5 ft bgs. Two soil samples, GRID-18 and GRID-20 exhibited benzo(a)pyrene concentrations (2.41 mg/kg to 3.35 mg/kg) exceeding the NJDEP's RIDSRS and NRIDSRS at a depth of 1.0-1.5 ft bgs. Soil analytical results are shown on Tables 2 and 3. Laboratory analytical reports are provided in Appendix F.

CONCLUSIONS

Matrix completed an evaluation of soils imported to the Village of Ridgewood Schedler Property for the creation of a berm to shield the Site from noise pollution associated with New Jersey State Highway Route 17. The soils were imported from six different sources located in Bergen County and were identified by NJDEP through record searches to be suspect soils not conforming with NJDEP requirements pertaining to importation of soil. The soil boring investigation identified the SVOC

compound benzo(a)pyrene in six soil samples (GRID-4, GRID-11, GRID-16, GRID-21, GRID-26, GRID-28) at concentrations (0.642 mg/kg to 0.997 mg/kg) that exceed the NJDEP's RIDSRS at a depth of 1.0 to 1.5 feet bgs and in two soil samples (GRID-18 and GRID-20) at concentrations (2.41 mg/kg to 3.35 mg/kg) exceeding both the NJDEP's RIDSRS and NRIDSRS. The soil investigation identified the SVOC compound benzo(a)anthracene in two soil samples (GRID-18 and GRID-20) at concentrations (2.37 mg.kg to 3.37 mg/kg) that exceed the NJDEP's MGWSRS and Site-Specific ARS at a depth of 1.0 to 1.5 feet bgs. The soil investigation identified the metal compound mercury in one soil sample (GRID-10A) at a concentration of 1.00 mg/kg, exceeding the NJDEP's MGWSRS and Site-Specific ARS at a depth of 1.0 to 1.5 feet bgs.

Based on the results of the sampling completed on the Site on May 3, 2024, and June 26 and 27, 2024, Matrix recommends further investigation including delineation sampling at the locations of the samples exceeding NJDEP's RIDSRS, NRIDSRS, and MGWSRS (GRID-4, GRID-11, GRID-16, GRID-18. GRID-20, GRID-21, GRID-26, GRID-28, GRID-10A) in an effort to minimize the volume of soil that will need to be removed from the Site to satisfy the NJDEP BSWCE. Based on the NJDEP's *Guidance for the Evaluation of Immobile Chemicals for the Impact to Groundwater Pathway*, benzo(a)anthracene is listed as an immobile chemical. Further, groundwater was not encountered two feet below the sample interval, therefore contamination is not present above the MGWSRS within two feet of the water table. Therefore, a groundwater investigation is not triggered by the MGWSRS exceedance of benzo(a)anthracene. However, mercury is not considered an immobile chemical, therefore based on the mercury exceedance at sample location GRID-10A, a groundwater investigation for mercury may be required to remain in compliance with the NJDEP's Contaminated Site Remediation & Redevelopment (CSRR) program. Matrix will coordinate with the Village of Ridgewood and the NJDEP to prepare a scope of work to delineate the soil in the exceeding locations found on the Site with the goal of resolving all NJDEP concerns.

If you have any questions or require any additional information, do not hesitate to contact us at (973) 240-1800.

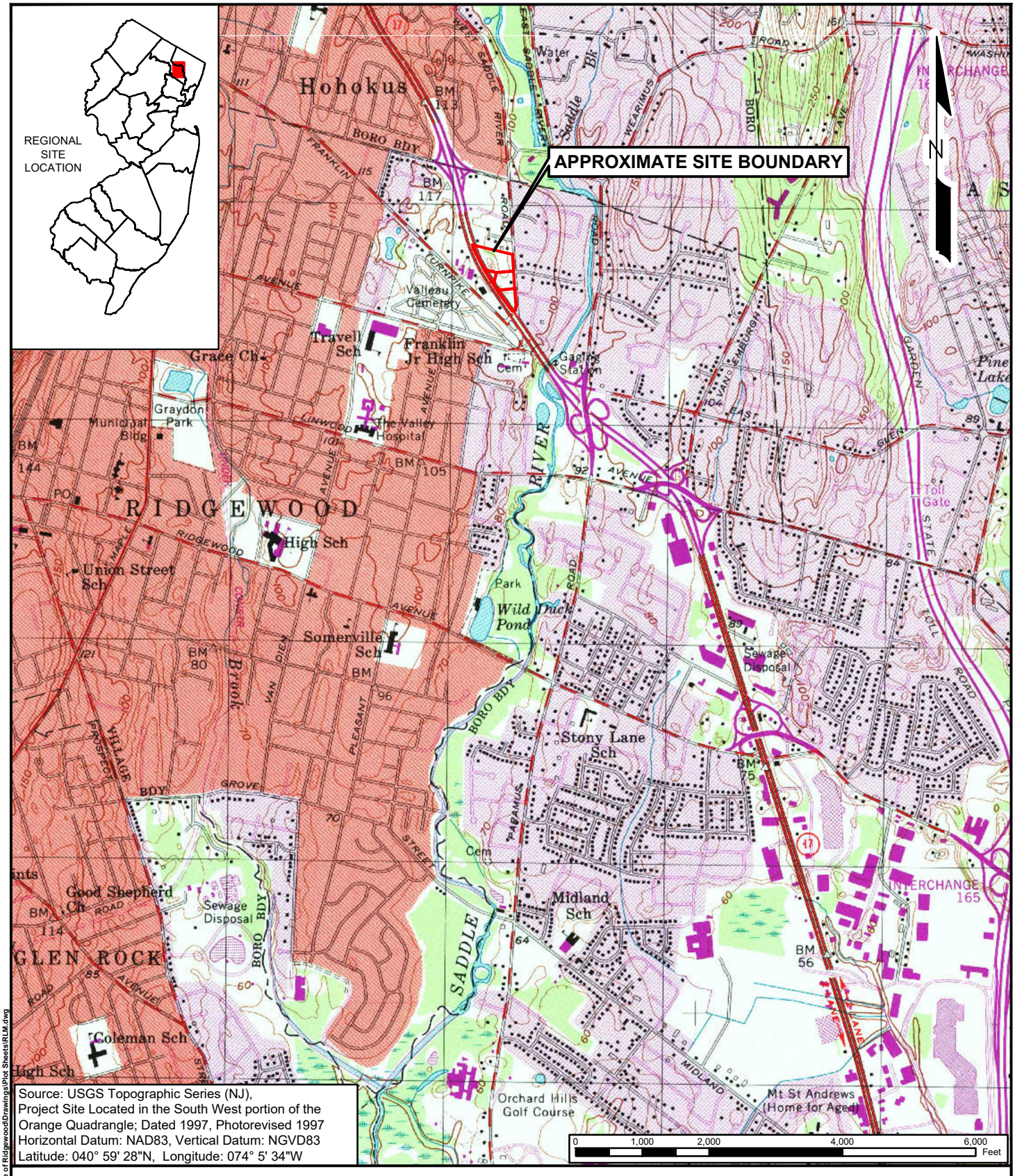
Sincerely,

Melissa Feury
Project Manager

Chris Pittarese, LSRP
Senior Project Manager

Enclosed:
Figure 1 – Site Location Map
Figure 2 – Grid Soil Analytical Results Table
Table 1 – Sample Summary Table
Table 2 – Grid Soil Analytical Results Table
Table 3 – SB-12R Resample Analytical Results Table
Appendix A – NJDEP December 11, 2023 Correspondence
Appendix B – Sampling and Analysis Plan
Appendix C – NJDEP signed Conditional Revised Sampling and Analysis Plan
Appendix D – Berm Sampling Letter Report
Appendix E – Soil Boring Logs
Appendix F – Analytical Laboratory Reports
Appendix G – Nankoweep Data Validation Report (will be included upon receipt)

FIGURES



Source: USGS Topographic Series (NJ),
Project Site Located in the South West portion of the Orange Quadrangle; Dated 1997, Photorevised 1997
Horizontal Datum: NAD83, Vertical Datum: NGVD83
Latitude: 040° 59' 28"N, Longitude: 074° 5' 34"W

SITE LOCATION MAP

MATRIX NEW WORLD
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VILLAGE OF RIDGEWOOD
BLOCK 4704, LOTS 9, 10, 11, & 12
VILLAGE OF RIDGEWOOD
BERGEN COUNTY, NEW JERSEY

SCALE:	PROJECT NO.:	DATE:	FIGURE NO.:
1 : 2,000	23-1429	MARCH 2024	1

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SAMPLE ID	GRID-21
SAMPLE DATE	6/27/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
Benzo(a)pyrene	0.913
All other SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-12A
SAMPLE DATE	6/26/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-20
SAMPLE DATE	6/27/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
Benzo(a)anthracene	3.37
Benzo(a)pyrene	3.35
All other SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-19
SAMPLE DATE	6/26/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-22A
SAMPLE DATE	6/26/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-18
SAMPLE DATE	6/26/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
Benzo(a)anthracene	2.37
Benzo(a)pyrene	2.41
All other SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-23
SAMPLE DATE	6/26/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-28
SAMPLE DATE	6/26/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
Benzo(a)pyrene	0.898
All other SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Mercury	1.0
All other Metals	<SRS

SAMPLE ID	GRID-24A
SAMPLE DATE	6/26/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-26
SAMPLE DATE	6/26/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
Benzo(a)pyrene	0.799
All other SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-11
SAMPLE DATE	6/27/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
Benzo(a)pyrene	0.997
All other SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-27
SAMPLE DATE	6/26/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-10A
SAMPLE DATE	6/27/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-25
SAMPLE DATE	6/26/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-9
SAMPLE DATE	6/27/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-16
SAMPLE DATE	6/26/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
Benzo(a)pyrene	0.61
All other SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-8A
SAMPLE DATE	6/27/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-1
SAMPLE DATE	6/26/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	SB-12R
SAMPLE DATE	6/26/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS

SAMPLE ID	GRID-3	DUP-1
SAMPLE DATE	6/27/2024	6/27/2024
SAMPLE DEPTH (ft)	1.0-1.5	1.0-1.5
VOCs	<SRS	<SRS
SVOCs	<SRS	<SRS
Pesticides	<SRS	<SRS
PCBs	<SRS	<SRS
Metals	<SRS	<SRS

SAMPLE ID	GRID-7	DUP-2
SAMPLE DATE	6/27/2024	6/27/2024
SAMPLE DEPTH (ft)	1.0-1.5	1.0-1.5
VOCs	<SRS	<SRS
SVOCs	<SRS	<SRS
Pesticides	<SRS	<SRS
PCBs	<SRS	<SRS
Metals	<SRS	<SRS

SAMPLE ID	GRID-6
SAMPLE DATE	6/27/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-5
SAMPLE DATE	6/27/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-4
SAMPLE DATE	6/27/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
Benzo(a)pyrene	0.642
All other SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	GRID-2
SAMPLE DATE	6/26/2024
SAMPLE DEPTH (ft)	1.0-1.5
VOCs	<SRS
SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

NJDEP Soil Remediation Standards Criteria		NJ Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)
Compound						
SVOCs	Benzo(a)anthracene	5.1	23	78000	370000	1.85*
	Benzo(a)pyrene	0.51	2.3	7800	16000	NC
Metals	Mercury	23	390	520000	NC	0.29*

LEGEND

GRID-XX — GRID SOIL SAMPLE LOCATION

Bold and italic — EXCEEDS NJDEP MGWSRS/AR-MGWSRS

Bold — EXCEEDS NJDEP RIDSRS/RISRS

Bold and underlined — EXCEEDS NJDEP NRIDSRS/NRISRS

SVOCs — SEMI-VOLATILE ORGANIC COMPOUNDS
PCBs — POLYCHLORINATED BIPHENYLS
NC — NO CRITERIA ESTABLISHED FOR THIS CONTAMINANT
SRS — SOIL REMEDIATION STANDARDS CRITERIA
NJDEP — NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
MGWSRS — MIGRATION TO GROUNDWATER EXPOSURE PATHWAY SOIL REMEDIATION STANDARDS
RIDSRS — RESIDENTIAL INGESTION-DERMAL EXPOSURE PATHWAY SOIL REMEDIATION STANDARDS
RISRS — RESIDENTIAL INHALATION EXPOSURE PATHWAY SOIL REMEDIATION STANDARDS
NRIDSRS — NON-RESIDENTIAL INGESTION-DERMAL EXPOSURE PATHWAY SOIL REMEDIATION STANDARDS
AR-MGWSRS — ALTERNATIVE REMEDIATION - MIGRATION TO GROUNDWATER SOIL REMEDIATION STANDARD
* — AR-MGWSRS UTILIZED AS STANDARD

ALL ANALYTICAL RESULTS FOR SOIL IN MILLIGRAMS PER KILOGRAM (mg/kg)
ALL SAMPLE DEPTHS PRESENTED IN ft, bgs (FEET BELOW GROUND SURFACE)
SITE SPECIFIC MIGRATION TO GROUNDWATER SOIL REMEDIATION STANDARD (MGWSRS) WAS CALCULATED FOR BENZO(A)ANTHRACENE' LEAD, AND MERCURY USING NJDEP'S SPLP SPREADSHEET, V1.0, MAY 2021.
UNSATURATED SOIL SAMPLES COMPARED TO MGWSRS/AR-MGWSRS

DESIGNED BY: MED | REVIEWED BY: KP | RELEASED BY: MF | DATE

MATRIXNEWORLD
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NEW JERSEY CERTIFICATE OF AUTHORIZATION No. 24GA27982300

GRID SAMPLE LOCATIONS WITH ANALYTICAL RESULTS

VILLAGE OF RIDGEWOOD
BLOCK 4704, LOTS 9, 10, 11 & 12
WEST SADDLE RIVER ROAD
VILLAGE OF RIDGEWOOD
BERGEN COUNTY, NEW JERSEY

PROJECT NUMBER: 23-1429
SCALE: AS SHOWN
DATE: 7/24/2024
SHEET 2 OF

© MATRIXNEWORLD\F:\2023\23-1429 Village of Ridgewood\Drawings\Plot Sheets\Grid Sampling Locations with Analytical Results.dwg

TABLES

Table - 1
Sample Summary Table
Ridgewood Village Historic Site
460 West Saddle River Road, Village of Ridgewood, New Jersey
23-1429

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LOCATION	DATE	MATRIX	DEPTH (ft, bgs)	ANALYTICAL PARAMETERS	SAMPLING METHOD
Grid					
GRID-1	6/26/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-2	6/26/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-3	6/27/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-4	6/27/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-5	6/27/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-6	6/27/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-7	6/27/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-8	6/27/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium, Benzo(a)pyrene	Scoopula
GRID-9	6/27/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-10A	6/27/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium, Benzo(a)pyrene	Scoopula
GRID-11	6/27/2024	Soil	1.0-1.5	TCL VOCS, TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-12A	6/26/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium, Benzo(a)pyrene	Scoopula
GRID-13	6/26/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-14A	6/26/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium, Benzo(a)pyrene	Scoopula
GRID-15	6/26/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-16	6/26/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-17	6/26/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-18	6/26/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-19	6/26/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-20	6/27/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-21	6/27/2024	Soil	1.0-1.5	TCL VOCS, TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-22A	6/26/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium, Benzo(a)pyrene	Scoopula
GRID-23	6/26/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-24A	6/26/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium, Benzo(a)pyrene	Scoopula
GRID-25	6/26/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-26	6/26/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-27	6/26/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
GRID-28	6/26/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
Berm					
SB-12R	6/27/2024	Soil	3.0-3.5	TCL VOCS	Scoopula
QA/QC					
DUPE 1	6/27/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
DUPE 2	6/27/2024	Soil	1.0-1.5	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	Scoopula
Field Blank 1	6/26/2024	Aqueous	--	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	--
Field Blank 2	6/26/2024	Aqueous	--	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	--
Field Blank 3	6/27/2024	Aqueous	--	TCL SVOCS, TAL Metals, Pesticides, PCBs, Hexavalent Chromium	--

Notes:
TCL = Target Compound List
VOC= Volatile organic Compounds
SVOC's= Semi Volatile organic Compounds
TAL= Target Analyte List
PCBs= Polychlorinated Biphenyls
ft, bgs = Feet, Below Ground Surface
QA/QC= Quality Assurance/Quality Control

Table - 2
Grid Sampling Soil Analytical Resuts - SVOCs
Ridgewood Village Historic Site
460 West Saddle River Road, Village of Ridgewood, New Jersey
23-1429

Client Sample ID:	NJ Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Ingestion Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	GRID-1		GRID-2		GRID-3		GRID-4		GRID-5		GRID-6		GRID-7		GRID-8A	
Lab Sample ID:						JD91204-13		JD91204-10		JD91339-1		JD91339-2		JD91339-9		JD91339-10		JD91339-11		JD91339-8	
Date Sampled:						6/26/2024		6/26/2024		6/27/2024		6/27/2024		6/27/2024		6/27/2024		6/27/2024		6/27/2024	
Sample Depth (ft, bgs):						1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5	
Saturated (S)/Unsaturated (US):						US		US		US		US		US		US		US		US	
Matrix:						Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
SVOCs																					
2-Chlorophenol	390	6500	NC	NC	0.76	0.075 [a]	U	0.072 [a]	U	0.14	U	0.13	U	0.14	U	0.073	U	0.13	U	0.18	U
4-Chloro-3-methyl phenol	NC	NC	NC	NC	NC	0.19	U	0.18	U	0.36	U	0.32	U	0.35	U	0.18	U	0.31	U	0.44	U
2,4-Dichlorophenol	190	2700	NC	NC	0.19	0.19	U	0.18	U	0.36	U	0.32	U	0.35	U	0.18	U	0.31	U	0.44	U
2,4-Dimethylphenol	1300	18000	NC	NC	2.3	0.19	U	0.18	U	0.36	U	0.32	U	0.35	U	0.18	U	0.31	U	0.44	U
2,4-Dinitrophenol	130	1800	NC	NC	0.33	0.19	U	0.18	U	0.36	U	0.32	U	0.35	U	0.18	U	0.31	U	0.44	U
4,6-Dinitro-o-cresol	NC	NC	NC	NC	NC	0.19 [a]	U	0.18 [a]	U	0.36 [a]	U	0.32 [a]	U	0.35 [a]	U	0.18 [a]	U	0.31 [a]	U	0.44 [a]	U
2-Methylphenol	320	4600	NC	NC	0.77	0.075 [a]	U	0.072 [a]	U	0.14	U	0.13	U	0.14	U	0.073	U	0.13	U	0.18	U
3&4-Methylphenol	NC	NC	NC	NC	NC	0.075	U	0.072	U	0.14	U	0.13	U	0.14	U	0.073	U	0.13	U	0.18	U
2-Nitrophenol	NC	NC	NC	NC	NC	0.19 [a]	U	0.18 [a]	U	0.36 [a]	U	0.32 [a]	U	0.35 [a]	U	0.18 [a]	U	0.31 [a]	U	0.44 [a]	U
4-Nitrophenol	NC	NC	NC	NC	NC	0.37 [b]	U	0.36 [b]	U	0.72	U	0.64	U	0.7	U	0.37	U	0.63	U	0.88	U
Pentachlorophenol	1	4.4	NC	NC	0.33	0.15 [b]	U	0.14 [b]	U	0.29	U	0.25	U	0.28	U	0.15	U	0.25	U	0.35	U
Phenol	19000	270000	39000	NC	21	0.075 [a]	U	0.072 [a]	U	0.14	U	0.13	U	0.14	U	0.073	U	0.13	U	0.18	U
2,3,4,6-Tetrachlorophenol	1900	27000	NC	NC	26	0.19	U	0.18	U	0.36 [a]	U	0.32 [a]	U	0.35 [a]	U	0.18 [a]	U	0.31 [a]	U	0.44 [a]	U
2,4,5-Trichlorophenol	6300	91000	NC	NC	68	0.19	U	0.18	U	0.36	U	0.32	U	0.35	U	0.18	U	0.31	U	0.44	U
2,4,6-Trichlorophenol	49	230	NC	NC	0.86	0.19	U	0.18	U	0.36 [a]	U	0.32 [a]	U	0.35 [a]	U	0.18 [a]	U	0.31 [a]	U	0.44 [a]	U
Acenaphthene	3600	50000	NC	NC	NC	0.037	U	0.0563		0.072	U	0.0234	J	0.07	U	0.037	U	0.063	U	0.088	U
Acenaphthylene	NC	NC	NC	NC	NC	0.037	U	0.0517		0.072	U	0.179		0.07	U	0.037	U	0.063	U	0.088	U
Acetophenone	7800	130000	NC	NC	3.6	0.19	U	0.0088	J	0.36	U	0.32	U	0.35	U	0.18	U	0.31	U	0.44	U
Anthracene	18000	250000	NC	NC	NC	0.037	U	0.124		0.072	U	0.143		0.07	U	0.037	U	0.063	U	0.088	U
Atrazine	220	3200	NC	NC	0.33	0.075 [a]	U	0.072 [a]	U	0.14 [a]	U	0.13 [a]	U	0.14 [a]	U	0.073 [a]	U	0.13 [a]	U	0.18 [a]	U
Benzo(a)anthracene	5.1	23	78000	370000	*1.85	0.0622		0.477		0.0571	J	0.477		0.0283	J	0.037	U	0.0274	J	0.088	U
Benzo(a)pyrene	0.51	2.3	7800	16000	NC	0.0646		0.5		0.0701 [i]	J	**0.642** [i]		0.070 [a]	U	0.037 [a]	U	0.063 [a]	U	0.088 [a]	U
Benzo(b)fluoranthene	5.1	23	78000	370000	NC	0.104		0.696		0.0855		0.684		0.0352 [i]	J	0.037 [a]	U	0.0285	J	0.088 [a]	U
Benzo(g,h,i)perylene	NC	NC	NC	NC	NC	0.0477		0.37		0.0610 [i]	J	0.527 [i]		0.070 [a]	U	0.037 [a]	U	0.063 [a]	U	0.088 [a]	U
Benzo(k)fluoranthene	51	230	780000	NC	NC	0.0298	J	0.223		0.072	U	0.182		0.07	U	0.037	U	0.063	U	0.088	U
4-Bromophenyl phenyl ether	NC	NC	NC	NC	NC	0.075	U	0.072	U	0.14	U	0.13	U	0.14	U	0.073	U	0.13	U	0.18	U
Butyl benzyl phthalate	290	1300	NC	NC	29	0.075 [a]	U	0.0158 [i]	J	0.115	J	0.113	J	0.111	J	0.073	U	0.0992	J	0.18	U
1,1'-Biphenyl	87	450	NC	NC	NC	0.075	U	0.0082	J	0.14	U	0.13	U	0.14	U	0.073	U	0.13	U	0.18	U
Benzaldehyde	170	910	NC	NC	NC	0.0145	J	0.0254	J	0.36	U	0.32	U	0.35	U	0.174	J	0.0258	J	0.129	J
2-Chloronaphthalene	4800	67000	NC	NC	NC	0.075	U	0.072	U	0.14	U	0.13	U	0.14	U	0.073	U	0.13	U	0.18	U
4-Chloroaniline	2.7	13	NC	NC	0.23	0.19	U	0.18	U	0.36	U	0.32	U	0.35	U	0.18	U	0.31	U	0.44	U
Carbazole	NC	NC	NC	NC	NC	0.009	J	0.076		0.14	U	0.0244	J	0.14	U	0.073	U	0.13	U	0.18	U
Caprolactam	32000	460000	290	1300	16	0.075 [a]	U	0.072 [a]	U	0.14 [a]	U	0.13 [a]	U	0.14 [a]	U	0.073 [a]	U	0.13 [a]	U	0.18 [a]	U
Chrysene	510	2300	NC	NC	NC	0.0813		0.584		0.0695	J	0.485		0.0252	J	0.037	U	0.0244	J	0.088	U
bis(2-Chloroethoxy)methane	190	2700	NC	NC	NC	0.075	U	0.072	U	0.14	U	0.13	U	0.14	U	0.073	U	0.13	U	0.18	U
bis(2-Chloroethyl)ether	0.63	3.3	NC	NC	0.33	0.075	U	0.072	U	0.14 [a]	U	0.13 [a]	U	0.14 [a]	U	0.073 [a]	U	0.13 [a]	U	0.18 [a]	U
2,2'-Oxybis(1-chloropropane)	3100	52000	NC	NC	1.9	0.075	U	0.072	U	0.14	U	0.13	U	0.14	U	0.073	U	0.13	U	0.18	U
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	NC	0.075	U	0.072	U	0.14	U	0.13	U	0.14	U	0.073	U	0.13	U	0.18	U
2,4-Dinitrotoluene	NC	NC	NC	NC	NC	0.037 [a]	U	0.036 [a]	U	0.072	U	0.064	U	0.07	U	0.037	U	0.063	U	0.088	U
2,6-Dinitrotoluene	NC	NC	NC	NC	NC	0.037 [a]	U	0.036 [a]	U	0.072	U	0.064	U	0.07	U	0.037	U	0.063	U	0.088	U
3,3'-Dichlorobenzidine	1.2	5.7	NC	NC	3.9	0.075 [a]	U	0.072 [a]	U	0.14	U	0.13	U	0.14	U	0.073	U	0.13	U	0.18	U
1,4-Dioxane	7	36	45	210	0.067	0.037	U	0.036	U	0.072	U	0.064	U	0.07	U	0.037	U	0.063	U	0.088	U
Dibenzo(a,h)anthracene	0.51	2.3	7800	37000	NC	0.037	U	0.0983		0.072 [a]	U	0.0407 [i]	J	0.070 [a]	U	0.037 [a]	U	0.063 [a]	U	0.088 [a]	U
Dibenzofuran	NC	NC	NC	NC	NC	0.075	U	0.0209	J	0.14	U	0.13	U	0.14	U	0.073	U	0.13	U	0.18	U
Di-n-butyl phthalate	6300	91000	NC	NC	NC	0.0066	J	0.0129	J	0.14 [a]	U	0.13 [a]	U	0.14 [a]	U	0.073 [a]	U	0.13 [a]	U	0.18 [a]	U
Di-n-octyl phthalate	630	9100	NC	NC	NC	0.075	U	0.072	U	0.14	U	0.13	U	0.14	U	0.073	U	0.13	U	0.18	U
Diethyl phthalate	51000	730000	NC	NC	44	0.075	U	0.072	U	0.14	U	0.13	U	0.14	U	0.073	U	0.13	U	0.18	U
Dimethyl phthalate	NC	NC	NC	NC	NC	0.075	U	0.072	U	0.14	U	0.13	U	0.14	U	0.073	U	0.13	U	0.18	U
bis(2-Ethylhexyl)phthalate	39	180	NC	NC	14	0.0252	J	0.0659	J	0.123	J	0.108	J	0.115	J	0.0586	J	0.105	J	0.144	J
Fluoranthene	2400	33000	NC	NC	NC	0.176		1.29		0.143 [i]		0.877 [i]		0.0464 [i]	J	0.037 [a]	U	0.0442 [i]	J	0.0481 [i]	J
Fluorene	2400	33000	NC	NC	NC	0.037	U	0.0483		0.072	U	0.0335	J	0.07	U	0.037	U	0.063	U	0.088	U
Hexachlorobenzene	0.43	2.3	NC	NC	0.17	0.075	U	0.072	U	0.14 [a]	U	0.13 [a]	U	0.14 [a]	U	0.073 [a]	U	0.13 [a]	U	0.18 [a]	U
Hexachlorobutadiene	8.9	47	NC	NC	0.17	0.037	U	0.036	U	0.072	U	0.064	U	0.07	U	0.037	U	0.063	U	0.088	U
Hexachlorocyclopentadiene	470	7800	2.7	NC	2.5	0.37 [b]	U	0.36 [b]	U	0.72 [b]	U	0.64 [b]	U	0.70 [b]	U	0.37 [b]	U	0.63 [b]	U	0.88 [b]	U
Hexachloroethane	17	91	NC	NC	0.17	0.19	U	0.18	U	0.36	U	0.32	U	0.35	U	0.18	U	0.31	U	0.44	U
Indeno(1,2,3-cd)pyrene	5.1	23	78000	370000	NC	0.0384		0.297		0.0440 [i]	J	0.406 [i]		0.070 [a]	U	0.037 [a]	U	0.063 [a]	U	0.088 [a]	U
Isophorone	570	2700	NC	NC	0.23	0.075	U	0.072	U	0.14	U	0.13	U	0.14	U	0.073	U	0.13	U	0.18	U
2-Methylnaphthalene	240	3300	NC	NC	3.1	0.037	U	0.0255	J	0.072	U	0.064	U	0.07	U	0.037	U	0.063	U	0.088	U
2-Nitroaniline	NC	NC	NC	NC	NC	0.19	U	0.18	U	0.36	U	0.32	U	0.35	U	0.18	U	0.31	U	0.44	U
3-Nitroaniline	NC	NC	NC	NC	NC	0.19 [a]	U	0.18 [a]	U	0.36	U	0.32	U	0.35	U	0.18	U	0.31	U	0.44	U
4-Nitroaniline	27	130	NC	NC	NC	0.19	U	0.18	U	0.36	U	0.32	U	0.35	U	0.18	U	0.31	U	0.44	U
Naphthalene	2500	34000	5.7	27	19	0.037	U	0.12		0.072	U	0.064	U	0.07	U	0.037	U	0.063	U	0.088	U
Nitrobenzene	160	2600	7.5	36	0.17	0.075	U	0.072	U	0.14	U	0.13	U	0.14	U	0.073	U	0.13	U	0.18	U
N-Nitroso-di-n-propylamine	0.17	0.36	NC	NC	0.17	0.075	U	0.072	U	0.14	U	0.13	U	0.14	U	0.073	U	0.13	U	0.18	U
N-Nitrosodiphenylamine	110	520	NC	NC	1.1	0.19	U	0.18	U	0.36	U	0.32	U	0.35	U	0.18	U	0.31	U	0.44	U
Phenanthrene	NC	NC	NC	NC	NC	0.0924		0.693		0.0744		0.289		0.0278	J	0.037	U	0.0218	J	0.0297	J
Pyrene	1800	25000	NC	NC	NC	0.152		1.09		0.12		0.872		0.0457	J	0.037	U	0.038	J	0.0472	J
1,2,4,5-Tetrachlorobenzene	23	390	NC	NC	NC	0.19	U	0.18	U	0.36	U	0.32	U	0.35	U	0.18	U	0.31	U	0.44	U
Total TIC, Semi-Volatile	NC	NC	NC	NC	NC	10.92	J	24.07	J	19.89	J	0.65	J	5.15	J	4.62	J	7.18	J	8.02	J

Notes:

All analytical results for soil in milligrams per kilogram (mg/kg)

Site Specific Migration to Groundwater Soil Remediation Standard (MGWSRS) was calculated for benzo(a)anthracene using NJDEP's SPLP Spreadsheet, V1.0, May 2021.

ft, bgs= feet below ground surface

All sample depths presented in ft, bgs

[a] Associated CCV outside of control limits high, sample was ND.

[b] Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.

[h] Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

[i] Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.

B = Indicates analyte found in associated method blank

J = Estimated concentration below laboratory reporting limit

NC = No criteria established for this contaminant

U = Denotes parameters analyzed for but not detected; value shown is the laboratory reporting limit

- = Not Analyzed

SVOCs = Semi-Volatile Organic Compounds

Unsaturated soil samples compared to MGWSRS/AR-MGWSRS

* = AR-MGWSRS utilized as standard

NJ-MGWSRS = New Jersey 2021 Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria

AR-MGWSRS = Alternative Remediation - Migration to Groundwater Soil Remediation Standard

NJ-NRISRS = New Jersey 2021 Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-NRIDSRS = New Jersey 2021 Non-Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

NJ-RISRS = New Jersey 2021 Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-RIDSRS = New Jersey 2021 Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

Bold and italic	Reporting limit exceeds NJDEP's most stringent standard
Bold and italic	Exceeds the NJDEP MGWSRS/AR-MGWSRS
Bold	Exceeds NJDEP RIDSRS/RISRS
Bold and underline	Exceeds NJDEP NRIDSRS/NRISRS

Table - 2
Grid Sampling Soil Analytical Resuts - SVOCs
Ridgewood Village Historic Site
460 West Saddle River Road, Village of Ridgewood, New Jersey
23-1429

Client Sample ID:	NJ Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Ingestion Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	GRID-9		GRID-10A		GRID-11		GRID-12A		GRID-13		GRID-14A		GRID-15		GRID-16		GRID-17		GRID-18		GRID-19		GRID-20	
Lab Sample ID:						JD91339-7		JD91339-5		JD91339-4		JD91204-15		JD91204-12		JD91204-8		JD91204-9		JD91204-4		JD91204-7		JD91204-14		JD91204-11		JD91339-3	
Date Sampled:						6/27/2024		6/27/2024		6/27/2024		6/26/2024		6/26/2024		6/26/2024		6/26/2024		6/26/2024		6/26/2024		6/26/2024		6/26/2024		6/27/2024	
Sample Depth (ft, bgs):						1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5	
Saturated (S)/Unsaturated (US):						US		US		US		US		US		US		US		US		US		US		US		US	
Matrix:						Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
SVOCs																													
2-Chlorophenol	390	6500	NC	NC	0.76	0.13	U	0.078	U	0.14	U	0.068 [a]	U	0.069 [a]	U	0.067 [a]	U	0.073 [a]	U	0.072 [a]	U	0.066 [a]	U	0.067 [a]	U	0.069 [a]	U	0.074	U
4-Chloro-3-methyl phenol	NC	NC	NC	NC	NC	0.33	U	0.19	U	0.34	U	0.17	U	0.17	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U
2,4-Dichlorophenol	190	2700	NC	NC	0.19	0.33	U	0.19	U	0.34	U	0.17	U	0.17	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U
2,4-Dimethylphenol	1300	18000	NC	NC	2.3	0.33	U	0.19	U	0.34	U	0.17	U	0.17	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U
2,4-Dinitrophenol	130	1800	NC	NC	0.33	0.33	U	0.19	U	0.34	U	0.17	U	0.17	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U
4,6-Dinitro-o-cresol	NC	NC	NC	NC	NC	0.33 [a]	U	0.19 [a]	U	0.34 [a]	U	0.17 [a]	U	0.17 [a]	U	0.17 [a]	U	0.18 [a]	U	0.18 [a]	U	0.17 [a]	U	0.17 [a]	U	0.17 [a]	U	0.18 [a]	U
2-Methylphenol	320	4600	NC	NC	0.77	0.13	U	0.078	U	0.14	U	0.068 [a]	U	0.069 [a]	U	0.067 [a]	U	0.073 [a]	U	0.072 [a]	U	0.066 [a]	U	0.067 [a]	U	0.069 [a]	U	0.074	U
3&4-Methylphenol	NC	NC	NC	NC	NC	0.13	U	0.078	U	0.14	U	0.068	U	0.069	U	0.067	U	0.073	U	0.072	U	0.066	U	0.067	U	0.069	U	0.074	U
2-Nitrophenol	NC	NC	NC	NC	NC	0.33 [a]	U	0.19 [a]	U	0.34 [a]	U	0.17 [a]	U	0.17 [a]	U	0.17 [a]	U	0.18 [a]	U	0.18 [a]	U	0.17 [a]	U	0.17 [a]	U	0.17 [a]	U	0.18 [a]	U
4-Nitrophenol	NC	NC	NC	NC	NC	0.67	U	0.39	U	0.68	U	0.34 [b]	U	0.35 [b]	U	0.34 [b]	U	0.37 [b]	U	0.36 [b]	U	0.33 [b]	U	0.33 [b]	U	0.35 [b]	U	0.37	U
Pentachlorophenol	1	4.4	NC	NC	0.33	0.27	U	0.16	U	0.27	U	0.14 [b]	U	0.14 [b]	U	0.13 [b]	U	0.15 [b]	U	0.14 [b]	U	0.13 [b]	U	0.13 [b]	U	0.14 [b]	U	0.15	U
Phenol	19000	270000	39000	NC	21	0.13	U	0.078	U	0.14	U	0.068 [a]	U	0.069 [a]	U	0.067 [a]	U	0.073 [a]	U	0.072 [a]	U	0.066 [a]	U	0.067 [a]	U	0.069 [a]	U	0.074	U
2,3,4,6-Tetrachlorophenol	1900	27000	NC	NC	26	0.33 [a]	U	0.19 [a]	U	0.34 [a]	U	0.17	U	0.17	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18 [a]	U
2,4,5-Trichlorophenol	6300	91000	NC	NC	68	0.33	U	0.19	U	0.34	U	0.17	U	0.17	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U
2,4,6-Trichlorophenol	49	230	NC	NC	0.86	0.33 [a]	U	0.19 [a]	U	0.34 [a]	U	0.17	U	0.17	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18 [a]	U
Acenaphthene	3600	50000	NC	NC	NC	0.067	U	0.039	U	0.097		0.034	U	0.035	U	0.034	U	0.0523		0.0489		0.0127	J	0.466		0.0265	J	1.15	
Acenaphthylene	NC	NC	NC	NC	NC	0.067	U	0.0384	J	0.289		0.034	U	0.0245	J	0.034	U	0.171		0.0712		0.0441		0.113		0.0454		0.276	
Acetophenone	7800	130000	NC	NC	3.6	0.33	U	0.19	U	0.34	U	0.17	U	0.17	U	0.17	U	0.0108	J	0.18	U	0.17	U	0.0093	J	0.17	U	0.18	U
Anthracene	18000	250000	NC	NC	NC	0.067	U	0.0283	J	0.44		0.034	U	0.0333	J	0.034	U	0.248		0.17		0.0473		0.868		0.0843		2.49	
Atrazine	220	3200	NC	NC	0.33	0.13 [a]	U	0.078 [a]	U	0.14 [a]	U	0.068 [a]	U	0.069 [a]	U	0.067 [a]	U	0.073 [a]	U	0.072 [a]	U	0.066 [a]	U	0.067 [a]	U	0.069 [a]	U	0.074 [a]	U
Benzo(a)anthracene	5.1	23	78000	370000	*1.85	0.067	U	0.105		0.887		0.034	U	0.168		0.034	U	0.498		0.751		0.173		***2.37***		0.292		***3.37***	
Benzo(a)pyrene	0.51	2.3	7800	16000	NC	0.067 [a]	U	0.122 [j]		**0.997** [j]		0.034	U	0.177		0.034	U	0.493		**0.81**		0.205		***2.41***		0.321		***3.35*** [j]	
Benzo(b)fluoranthene	5.1	23	78000	370000	NC	0.067 [a]	U	0.130 [j]		0.947 [j]		0.034	U	0.231		0.034	U	0.597		1.06		0.253		2.74		0.393		3.41 [j]	
Benzo(g,h,i)perylene	NC	NC	NC	NC	NC	0.067 [a]	U	0.0965 [j]		0.741 [j]		0.034	U	0.127		0.034	U	0.323		0.588		0.171		1.75		0.221		2.31 [j]	
Benzo(k)fluoranthene	51	230	780000	NC	NC	0.067	U	0.0459		0.362		0.034	U	0.0638		0.034	U	0.21		0.369		0.0718		0.885		0.12		1.3	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	NC	0.13	U	0.078	U	0.14	U	0.068	U	0.069	U	0.067	U	0.073	U	0.072	U	0.066	U	0.067	U	0.069	U	0.074	U
Butyl benzyl phthalate	290	1300	NC	NC	29	0.13	U	0.078	U	0.14	U	0.068 [a]	U	0.069 [a]	U	0.067 [a]	U	0.073 [a]	U	0.0122 [j]	J	0.066 [a]	U	0.0279 [j]	J	0.069 [a]	U	0.074	U
1,1'-Biphenyl	87	450	NC	NC	NC	0.13	U	0.078	U	0.14	U	0.068	U	0.069	U	0.067	U	0.0128	J	0.0069	J	0.066	U	0.0422	J	0.069	U	0.12	
Benzaldehyde	170	910	NC	NC	NC	0.33	U	0.19	U	0.34	U	0.17	U	0.17	U	0.17	U	0.0299	J	0.0285	J	0.17	U	0.0226	J	0.17	U	0.18	U
2-Chloronaphthalene	4800	67000	NC	NC	NC	0.13	U	0.078	U	0.14	U	0.068	U	0.069	U	0.067	U	0.073	U	0.072	U	0.066	U	0.067	U	0.069	U	0.074	U
4-Chloroaniline	2.7	13	NC	NC	0.23	0.33	U	0.19	U	0.34	U	0.17	U	0.17	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U
Carbazole	NC	NC	NC	NC	NC	0.13	U	0.0095	J	0.126	J	0.068	U	0.0108	J	0.067	U	0.0529	J	0.0651	J	0.0109	J	0.519		0.0214	J	0.699	
Caprolactam	32000	460000	290	1300	16	0.13 [a]	U	0.078 [a]	U	0.14 [a]	U	0.068 [a]	U	0.069 [a]	U	0.067 [a]	U	0.073 [a]	U	0.072 [a]	U	0.066 [a]	U	0.067 [a]	U	0.069 [a]	U	0.074 [a]	U
Chrysene	510	2300	NC	NC	NC	0.067	U	0.115		0.909		0.034	U	0.159		0.034	U	0.59		0.819		0.172		2.17		0.284		2.96	
bis(2-Chloroethoxy)methane	190	2700	NC	NC	NC	0.13	U	0.078	U	0.14	U	0.068	U	0.069	U	0.067	U	0.073	U	0.072	U	0.066	U	0.067	U	0.069	U	0.074	U
bis(2-Chloroethyl)ether	0.63	3.3	NC	NC	0.33	0.13 [a]	U	0.078 [a]	U	0.14 [a]	U	0.068	U	0.069	U	0.067	U	0.073	U	0.072	U	0.066	U	0.067	U	0.069	U	0.074 [a]	U
2,2'-Oxybis(1-chloropropane)	3100	52000	NC	NC	1.9	0.13	U	0.078	U	0.14	U	0.068	U	0.069	U	0.067	U	0.073	U	0.072	U	0.066	U	0.067	U	0.069	U	0.074	U
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	NC	0.13	U	0.078	U	0.14	U	0.068	U	0.069	U	0.067	U	0.073	U	0.072	U	0.066	U	0.067	U	0.069	U	0.074	U
2,4-Dinitrotoluene	NC	NC	NC	NC	NC	0.067	U	0.039	U	0.068	U	0.034 [a]	U	0.035 [a]	U	0.034 [a]	U	0.037 [a]	U	0.036 [a]	U	0.033 [a]	U	0.033 [a]	U	0.035 [a]	U	0.037	U
2,6-Dinitrotoluene	NC	NC	NC	NC	NC	0.067	U	0.039	U	0.068	U	0.034 [a]	U	0.035 [a]	U	0.034 [a]	U	0.037 [a]	U	0.036 [a]	U	0.033 [a]	U	0.033 [a]	U	0.035 [a]	U	0.037	U
3,3'-Dichlorobenzidine	1.2	5.7	NC	NC	3.9	0.13	U	0.078	U	0.14	U	0.068 [a]	U	0.069 [a]	U	0.067 [a]	U	0.073 [a]	U	0.072 [a]	U	0.066 [a]	U	0.067 [a]	U	0.069 [a]	U	0.074	U
1,4-Dioxane	7	36	45	210	0.067	0.067	U	0.039	U	0.068	U	0.034	U	0.035	U	0.034	U	0.037	U	0.036	U	0.033	U	0.033	U	0.035	U	0.037	U
Dibenzo(a,h)anthracene	0.51	2.3	7800	37000	NC	0.067 [a]	U	0.039 [k]	U	0.0584 [j]	J	0.034	U	0.031	J	0.034	U	0.0983		0.173		0.0426		0.455		0.0622		0.188 [j]	
Dibenzofuran	NC	NC	NC	NC	NC	0.13	U	0.078	U	0.0452	J	0.068	U	0.069	U	0.067	U	0.0253	J	0.0176	J	0.066	U	0.23		0.069	U	0.81	
Di-n-butyl phthalate	6300	91000	NC	NC	NC	0.13 [a]	U	0.078 [a]	U	0.14 [a]	U	0.068	U	0.069	U	0.067	U	0.0096	J	0.072	U	0.066	U	0.067	U	0.069	U	0.074 [a]	U
Di-n-octyl phthalate	630	9100	NC	NC	NC	0.13	U	0.078	U	0.14	U	0.068	U	0.069	U	0.067	U	0.073	U	0.072	U	0.066	U	0.067	U	0.069	U	0.074	U
Diethyl phthalate	51000	730000	NC	NC	44	0.13	U	0.078	U	0.14	U	0.068	U	0.069	U	0.067	U	0.073	U	0.072	U	0.066	U	0.067	U	0.069	U	0.074	U
Dimethyl phthalate	NC	NC	NC	NC	NC	0.13	U	0.078	U	0.14	U	0.068	U	0.069	U	0.067	U	0.073	U	0.072	U	0.066	U	0.067	U	0.069	U	0.074	U
bis(2-Ethylhexyl)phthalate	39	180	NC	NC	14	0.106	J	0.071	J	0.14	U	0.068	U	0.0136	J	0.067	U	0.0338	J	0.0401	J	0.0092	J	0.045	J	0.069	U	0.074	U
Fluoranthene	2400	33000	NC	NC	NC	0.067 [a]	U	0.197 [j]		1.82 [j]		0.034	U	0.317		0.034	U	1.11		1.55		0.321		5.18		0.582		11.5	
Fluorene	2400	33000	NC	NC	NC	0.067	U	0.039	U	0.147		0.034	U	0.035	U	0.034	U	0.0733		0.0428		0.033	U	0.455		0.027	J	1.36	
Hexachlorobenzene	0.43	2.3	NC	NC	0.17	0.13 [a]	U	0.078 [a]	U	0.14 [a]	U	0.068	U	0.069	U	0.067	U	0.073	U	0.072	U	0.066	U	0.067	U	0.069	U	0.074 [a]	U
Hexachlorobutadiene	8.9	47	NC	NC	0.17	0.067	U	0.039	U	0.068	U	0.034	U	0.035	U	0.034	U	0.037	U	0.036	U	0.033	U	0.033	U	0.035	U	0.037	U
Hexachlorocyclopentadiene	470	7800	2.7	NC	2.5	0.67 [b]	U	0.39 [b]	U	0.68 [b]	U	0.34 [b]	U	0.35 [b]	U	0.34 [b]	U	0.37 [b]	U	0.36 [b]	U	0.33 [b]	U	0.33 [b]	U	0.35 [b]	U	0.37 [b]	U
Hexachloroethane	17	91	NC	NC	0.17	0.33	U	0.19	U	0.34	U	0.17	U	0.17	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U
Indeno(1,2,3-cd)pyrene	5.1	23	78000	370000	NC	0.067 [a]	U	0.0729 [j]		0.554 [j]		0.034	U	0.102		0.034	U	0.244		0.473		0.128		1.35		0.174		1.84 [j]	
Isophorone	570	2700	NC	NC	0.23	0.13	U	0.078	U	0.14	U	0.068	U	0.069	U	0.067	U	0.073	U	0.072	U	0.066	U	0.067	U	0.069	U	0.074	U
2-Methylnaphthalene	240	3300	NC	NC	3.1	0.067	U	0.039	U	0.0168	J	0.034	U	0.035	U	0.034	U	0.0312	J	0.0101	J	0.033	U	0.133		0.035	U	0.439	
2-Nitroaniline	NC	NC	NC	NC	NC	0.33	U	0.19	U	0.34	U	0.17	U	0.17	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U
3-Nitroaniline	NC	NC	NC	NC	NC	0.33	U	0.19	U	0.34	U	0.17 [a]	U	0.17 [a]	U	0.17 [a]	U	0.18 [a]	U	0.18 [a]	U	0.17 [a]	U	0.17 [a]	U	0.17 [a]	U	0.18	U
4-Nitroaniline	27	130	NC	NC	NC	0.33	U	0.19	U	0.34	U	0.17	U	0.17	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U
Naphthalene	2500	34000	5.7	27	19	0.067	U	0.039	U	0.0218	J	0.034	U	0.035	U	0.034	U	0.051		0.0182	J	0.033	U	0.147		0.035	U	0.996	
Nitrobenzene	160	2600	7.5	36	0.17	0.13	U	0.078	U	0.14	U	0.068	U	0.069	U	0.067	U	0.073	U	0.072	U	0.066	U	0.067	U	0.069	U	0.074	U
N-Nitroso-di-n-propylamine	0.17	0.36	NC	NC	0.17	0.13	U	0.078	U	0.14	U	0.068	U	0.069	U	0.067	U	0.073	U	0.072	U	0.066	U	0.067	U	0.069	U	0.074	U
N-Nitrosodiphenylamine	110	520	NC	NC	1.1	0.33	U	0.19	U	0.34	U	0.17	U	0.17	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U
Phenanthrene	NC	NC	NC	NC	NC	0.046	J	0.0794		1.13		0.034	U	0.128		0.034	U	0.73		0.612		0.136		3.03		0.268		9.84	
Pyrene	1800	25000	NC	NC	NC	0.067	U	0.195		1.62		0.034	U	0.31		0.034	U	1.11		1.36		0.337		4.05		0.553		9.48	
1,2,4,5-Tetrachlorobenzene	23	390	NC	NC	NC	0.33	U	0.19	U	0.34	U	0.17	U	0.17	U	0.17	U	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.18	U
Total TIC, Semi-Volatile	NC	NC	NC	NC	NC	3.08	J	6.56	J	4.4	J	1.86	J	5.13	J	4.33	J	18.43	J	15.21	J	8.15	J	17.84	J	2.97	J	13.53	J

Notes:

All analytical results for soil in milligrams per kilogram (mg/kg)

Site Specific Migration to Groundwater Soil Remediation Standard (MGWSRS) was calculated for benzo(a)anthracene using NJDEP's SPLP Spreadsheet, V1.0, May 2021.

ft, bgs= feet below ground surface

All sample depths presented in ft, bgs

[a] Associated CCV outside of control limits high, sample was ND.

[b] Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.

[k] Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

[j] Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.

B = Indicates analyte found in associated method blank

J = Estimated concentration below laboratory reporting limit

NC = No criteria established for this contaminant

U = Denotes parameters analyzed for but not detected; value shown is the laboratory reporting limit

- = Not Analyzed

SVOCs = Semi-Volatile Organic Compounds

Unsaturated soil samples compared to MGWSRS/AR-MGWSRS

* = AR-MGWSRS utilized as standard

NJ-MGWSRS = New Jersey 2021 Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria

AR-MGWSRS = Alternative Remediation - Migration to Groundwater Soil Remediation Standard

NJ-NRISRS = New Jersey 2021 Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-NRIDSRS = New Jersey 2021 Non-Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

NJ-RISRS = New Jersey 2021 Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-RIDSRS = New Jersey 2021 Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

Bold and italic	Reporting limit exceeds NJDEP's most stringent standard
Bold and italic	Exceeds the NJDEP MGWSRS/AR-MGWSRS
Bold	Exceeds NJDEP RIDSRS/RISRS
Bold and underline	Exceeds NJDEP NRIDSRS/NRISRS

Table - 2
Grid Sampling Soil Analytical Resuts - SVOCs
Ridgewood Village Historic Site
460 West Saddle River Road, Village of Ridgewood, New Jersey
23-1429

Client Sample ID:	NJ Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Ingestion Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	GRID-21		GRID-22A		GRID-23		GRID-24A		GRID-25		GRID-26		GRID-27		GRID-28		DUP-1		DUP-2	
Lab Sample ID:						JD91339-6		JD91204-16		JD91204-17		JD91204-6		JD91204-3		JD91204-1		JD91204-2		JD91204-5		JD91339-13		JD91339-14	
Date Sampled:						6/27/2024		6/26/2024		6/26/2024		6/26/2024		6/26/2024		6/26/2024		6/26/2024		6/26/2024		6/27/2024		6/27/2024	
Sample Depth (ft, bgs):						1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5		1.0-1.5	
Saturated (S)/Unsaturated (US):						US		US		US		US		US		US		US		US		US		US	
Matrix:						Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
SVOCs																									
2-Chlorophenol	390	6500	NC	NC	0.76	0.072	U	0.071 [a]	U	0.068 [a]	U	0.066 [a]	U	0.069 [a]	U	0.067 [a]	U	0.068 [a]	U	0.066 [a]	U	0.072	U	0.07	U
4-Chloro-3-methyl phenol	NC	NC	NC	NC	NC	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.18 [a]	U	0.17 [a]	U
2,4-Dichlorophenol	190	2700	NC	NC	0.19	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U
2,4-Dimethylphenol	1300	18000	NC	NC	2.3	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U
2,4-Dinitrophenol	130	1800	NC	NC	0.33	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.18 [a]	U	0.17 [a]	U
4,6-Dinitro-o-cresol	NC	NC	NC	NC	NC	0.18 [a]	U	0.18 [a]	U	0.17 [a]	U	0.17 [a]	U	0.17 [a]	U	0.17 [a]	U	0.17 [a]	U	0.17 [a]	U	0.18 [a]	U	0.17 [a]	U
2-Methylphenol	320	4600	NC	NC	0.77	0.072	U	0.071 [a]	U	0.068 [a]	U	0.066 [a]	U	0.069 [a]	U	0.067 [a]	U	0.068 [a]	U	0.066 [a]	U	0.072	U	0.07	U
3&4-Methylphenol	NC	NC	NC	NC	NC	0.072	U	0.071	U	0.068	U	0.066	U	0.069	U	0.067	U	0.068	U	0.066	U	0.072	U	0.07	U
2-Nitrophenol	NC	NC	NC	NC	NC	0.18 [a]	U	0.18 [a]	U	0.17 [a]	U	0.17 [a]	U	0.17 [a]	U	0.17 [a]	U	0.17 [a]	U	0.17 [a]	U	0.18 [a]	U	0.17 [a]	U
4-Nitrophenol	NC	NC	NC	NC	NC	0.36	U	0.35 [b]	U	0.34 [b]	U	0.33 [b]	U	0.34 [b]	U	0.34 [b]	U	0.34 [b]	U	0.33 [b]	U	0.36 [a]	U	0.35 [a]	U
Pentachlorophenol	1	4.4	NC	NC	0.33	0.14	U	0.14 [b]	U	0.14 [b]	U	0.13 [b]	U	0.14 [b]	U	0.13 [b]	U	0.14 [b]	U	0.13 [b]	U	0.14	U	0.14	U
Phenol	19000	270000	39000	NC	21	0.072	U	0.071 [a]	U	0.068 [a]	U	0.066 [a]	U	0.069 [a]	U	0.067 [a]	U	0.068 [a]	U	0.066 [a]	U	0.072	U	0.07	U
2,3,4,6-Tetrachlorophenol	1900	27000	NC	NC	26	0.18 [a]	U	0.18	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.18 [a]	U	0.17 [a]	U
2,4,5-Trichlorophenol	6300	91000	NC	NC	68	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U
2,4,6-Trichlorophenol	49	230	NC	NC	0.86	0.18 [a]	U	0.18	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U
Acenaphthene	3600	50000	NC	NC	NC	0.0404		0.0227	J	0.034	U	0.0131	J	0.034	U	0.0451		0.034	U	0.0515		0.036	U	0.035	U
Acenaphthylene	NC	NC	NC	NC	NC	0.196		0.0626		0.034	U	0.0264	J	0.034	U	0.143		0.034	U	0.15		0.036	U	0.035	U
Acetophenone	7800	130000	NC	NC	3.6	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U
Anthracene	18000	250000	NC	NC	NC	0.244		0.0933		0.034	U	0.0506		0.034	U	0.221		0.034	U	0.224		0.036	U	0.035	U
Atrazine	220	3200	NC	NC	0.33	0.072 [a]	U	0.071 [a]	U	0.068 [a]	U	0.066 [a]	U	0.069 [a]	U	0.067 [a]	U	0.068 [a]	U	0.066 [a]	U	0.072 [a]	U	0.070 [a]	U
Benzo(a)anthracene	5.1	23	78000	370000	*1.85	0.735		0.377		0.034	U	0.101		0.0846		0.746		0.034	U	0.773		0.035	J	0.0136	J
Benzo(a)pyrene	0.51	2.3	7800	16000	NC	**0.913** [1]		0.414		0.034	U	0.121		0.0962		**0.799**		0.034	U	**0.898**		0.0451		0.035	U
Benzo(b)fluoranthene	5.1	23	78000	370000	NC	1.02 [1]		0.524		0.034	U	0.172		0.132		0.951		0.034	U	1.06		0.0568		0.0167	J
Benzo(g,h,i)perylene	NC	NC	NC	NC	NC	0.713 [1]		0.29		0.034	U	0.0816		0.0711		0.554		0.034	U	0.639		0.0397		0.035	U
Benzo(k)fluoranthene	51	230	780000	NC	NC	0.319		0.142		0.034	U	0.0513		0.04		0.323		0.034	U	0.36		0.0209	J	0.035	U
4-Bromophenyl phenyl ether	NC	NC	NC	NC	NC	0.072	U	0.071	U	0.068	U	0.066	U	0.069	U	0.067	U	0.068	U	0.066	U	0.072	U	0.07	U
Butyl benzyl phthalate	290	1300	NC	NC	29	0.072	U	0.071 [a]	U	0.068 [a]	U	0.0168 [1]	J	0.069 [a]	U	0.067 [a]	U	0.068 [a]	U	0.066 [a]	U	0.072 [a]	U	0.070 [a]	U
1,1'-Biphenyl	87	450	NC	NC	NC	0.0069	J	0.071	U	0.068	U	0.0054	J	0.069	U	0.0095	J	0.068	U	0.007	J	0.072	U	0.07	U
Benzaldehyde	170	910	NC	NC	NC	0.18	U	0.18	U	0.17	U	0.17	U	0.0106	J	0.17	U	0.17	U	0.17	U	0.18	U	0.0188	J
2-Chloronaphthalene	4800	67000	NC	NC	NC	0.072	U	0.071	U	0.068	U	0.066	U	0.069	U	0.067	U	0.068	U	0.066	U	0.072	U	0.07	U
4-Chloroaniline	2.7	13	NC	NC	0.23	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U
Carbazole	NC	NC	NC	NC	NC	0.04	J	0.0143	J	0.068	U	0.0324	J	0.0076	J	0.0412	J	0.068	U	0.0501	J	0.0058	J	0.07	U
Caprolactam	32000	460000	290	1300	16	0.072 [a]	U	0.071 [a]	U	0.068 [a]	U	0.066 [a]	U	0.069 [a]	U	0.067 [a]	U	0.068 [a]	U	0.066 [a]	U	0.072 [a]	U	0.070 [a]	U
Chrysene	510	2300	NC	NC	NC	0.728		0.353		0.034	U	0.107		0.098		0.704		0.034	U	0.751		0.0472		0.0119	J
bis(2-Chloroethoxy)methane	190	2700	NC	NC	NC	0.072	U	0.071	U	0.068	U	0.066	U	0.069	U	0.067	U	0.068	U	0.066	U	0.072	U	0.07	U
bis(2-Chloroethyl)ether	0.63	3.3	NC	NC	0.33	0.072 [a]	U	0.071	U	0.068	U	0.066	U	0.069	U	0.067	U	0.068	U	0.066	U	0.072	U	0.07	U
2,2'-Oxybis(1-chloropropane)	3100	52000	NC	NC	1.9	0.072	U	0.071	U	0.068	U	0.066	U	0.069	U	0.067	U	0.068	U	0.066	U	0.072	U	0.07	U
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	NC	0.072	U	0.071	U	0.068	U	0.066	U	0.069	U	0.067	U	0.068	U	0.066	U	0.072	U	0.07	U
2,4-Dinitrotoluene	NC	NC	NC	NC	NC	0.036	U	0.035 [a]	U	0.034 [a]	U	0.033 [a]	U	0.034 [a]	U	0.034 [a]	U	0.034 [a]	U	0.033 [a]	U	0.036 [a]	U	0.035 [a]	U
2,6-Dinitrotoluene	NC	NC	NC	NC	NC	0.036	U	0.035 [a]	U	0.034 [a]	U	0.033 [a]	U	0.034 [a]	U	0.034 [a]	U	0.034 [a]	U	0.033 [a]	U	0.036 [a]	U	0.035 [a]	U
3,3'-Dichlorobenzidine	1.2	5.7	NC	NC	3.9	0.072 [a]	U	0.071 [a]	U	0.068 [a]	U	0.066 [a]	U	0.069 [a]	U	0.067 [a]	U	0.068 [a]	U	0.066 [a]	U	0.072 [a]	U	0.070 [a]	U
1,4-Dioxane	7	36	45	210	0.067	0.036	U	0.035	U	0.034	U	0.033	U	0.034	U	0.034	U	0.034	U	0.033	U	0.036	U	0.035	U
Dibenzo(a,h)anthracene	0.51	2.3	7800	37000	NC	0.0573 [1]		0.0799		0.034	U	0.0268	J	0.0202	J	0.161		0.034	U	0.174		0.036	U	0.035	U
Dibenzofuran	NC	NC	NC	NC	NC	0.072	U	0.071	U	0.068	U	0.066	U	0.069	U	0.0271	J	0.068	U	0.0272	J	0.072	U	0.07	U
Di-n-butyl phthalate	6300	91000	NC	NC	NC	0.072 [a]	U	0.071	U	0.068	U	0.066	U	0.069	U	0.0055	J	0.068	U	0.066	U	0.0109	J	0.0082	J
Di-n-octyl phthalate	630	9100	NC	NC	NC	0.072	U	0.071	U	0.068	U	0.066	U	0.069	U	0.067	U	0.068	U	0.066	U	0.072	U	0.07	U
Diethyl phthalate	51000	730000	NC	NC	44	0.072	U	0.071	U	0.068	U	0.066	U	0.069	U	0.067	U	0.068	U	0.066	U	0.072	U	0.07	U
Dimethyl phthalate	NC	NC	NC	NC	NC	0.072	U	0.071	U	0.068	U	0.066	U	0.069	U	0.067	U	0.068	U	0.066	U	0.072	U	0.07	U
bis(2-Ethylhexyl)phthalate	39	180	NC	NC	14	0.0691	J	0.0121	J	0.068	U	0.015	J	0.0126	J	0.102		0.068	U	0.0186	J	0.072 [a]	U	0.070 [a]	U
Fluoranthene	2400	33000	NC	NC	NC	1.29 [1]		0.76		0.034	U	0.222		0.182		1.42		0.034	U	1.55		0.104		0.0232	J
Fluorene	2400	33000	NC	NC	NC	0.0578		0.0264	J	0.034	U	0.033	U	0.034	U	0.0571		0.034	U	0.0657		0.036	U	0.035	U
Hexachlorobenzene	0.43	2.3	NC	NC	0.17	0.072 [a]	U	0.071	U	0.068	U	0.066	U	0.069	U	0.067	U	0.068	U	0.066	U	0.072	U	0.07	U
Hexachlorobutadiene	8.9	47	NC	NC	0.17	0.036	U	0.035	U	0.034	U	0.033	U	0.034	U	0.034	U	0.034	U	0.033	U	0.036	U	0.035	U
Hexachlorocyclopentadiene	470	7800	2.7	NC	2.5	0.36 [b]	U	0.35 [b]	U	0.34 [b]	U	0.33 [b]	U	0.34 [b]	U	0.34 [b]	U	0.34 [b]	U	0.33 [b]	U	0.36	U	0.35	U
Hexachloroethane	17	91	NC	NC	0.17	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U
Indeno(1,2,3-cd)pyrene	5.1	23	78000	370000	NC	0.539 [1]		0.24		0.034	U	0.0646		0.0574		0.446		0.034	U	0.507		0.0372 [1]		0.035 [a]	U
Isophorone	570	2700	NC	NC	0.23	0.072	U	0.071	U	0.068	U	0.066	U	0.069	U	0.067	U	0.068	U	0.066	U	0.072	U	0.07	U
2-Methylnaphthalene	240	3300	NC	NC	3.1	0.0406		0.035	U	0.034	U	0.0096	J	0.034	U	0.0338	J	0.034	U	0.0187	J	0.036	U	0.035	U
2-Nitroaniline	NC	NC	NC	NC	NC	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.18 [a]	U	0.17 [a]	U
3-Nitroaniline	NC	NC	NC	NC	NC	0.18	U	0.18 [a]	U	0.17 [a]	U	0.17 [a]	U	0.17 [a]	U	0.17 [a]	U	0.17 [a]	U	0.17 [a]	U	0.18 [a]	U	0.17 [a]	U
4-Nitroaniline	27	130	NC	NC	NC	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.18 [a]	U	0.17 [a]	U
Naphthalene	2500	34000	5.7	27	19	0.0388		0.035	U	0.034	U	0.0195	J	0.034	U	0.0427		0.034	U	0.0306	J	0.036	U	0.035	U
Nitrobenzene	160	2600	7.5	36	0.17	0.072	U	0.071	U	0.068	U	0.066	U	0.069	U	0.067	U	0.068	U	0.066	U	0.072	U	0.07	U
N-Nitroso-di-n-propylamine	0.17	0.36	NC	NC	0.17	0.072	U	0.071	U	0.068	U	0.066	U	0.069	U	0.067	U	0.068	U	0.066	U	0.072 [a]	U	0.070 [a]	U
N-Nitrosodiphenylamine	110	520	NC	NC	1.1	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U
Phenanthrene	NC	NC	NC	NC	NC	0.499		0.277		0.034	U	0.128		0.0779		0.587		0.034	U	0.64		0.0516		0.035	U
Pyrene	1800	25000	NC	NC	NC	1.12		0.701		0.034	U	0.19		0.165		1.26		0.034	U	1.4		0.0772		0.021	J
1,2,4,5-Tetrachlorobenzene	23	390	NC	NC	NC	0.18	U	0.18	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.18	U	0.17	U
Total TIC, Semi-Volatile	NC	NC	NC	NC	NC	5.01	J	4.81	J	6.63	J	2.89	J	4.81	J	10.72	J	0.19	J	8.57	J	10.46	J	3.86	J

Notes:

All analytical results for soil in milligrams per kilogram (mg/kg)

Site Specific Migration to Groundwater Soil Remediation Standard (MGWSRS) was calculated for benzo(a)anthracene using NJDEP's SPLP Spreadsheet, V1.0, May 2021.

ft, bgs= feet below ground surface

All sample depths presented in ft, bgs

[a] Associated CCV outside of control limits high, sample was ND.

[b] Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.

[1] Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

[1] Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.

B = Indicates analyte found in associated method blank

J = Estimated concentration below laboratory reporting limit

NC = No criteria established for this contaminant

U = Denotes parameters analyzed for but not detected; value shown is the laboratory reporting limit

- = Not Analyzed

SVOCs = Semi-Volatile Organic Compounds

Unsaturated soil samples compared to MGWSRS/AR-MGWSRS

* = AR-MGWSRS utilized as standard

NJ-MGWSRS = New Jersey 2021 Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria

AR-MGWSRS = Alternative Remediation - Migration to Groundwater Soil Remediation Standard

NJ-NRISRS = New Jersey 2021 Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-NRIDSRS = New Jersey 2021 Non-Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

NJ-RISRS = New Jersey 2021 Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-RIDSRS = New Jersey 2021 Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

Bold and italic	Reporting limit exceeds NJDEP's most stringent standard
Bold and italic	Exceeds the NJDEP MGWSRS/AR-MGWSRS
Bold	Exceeds NJDEP RIDSRS/RISRS
Bold and underline	Exceeds NJDEP NRIDSRS/NRISRS

APPENDIX A

NJDEP December 11, 2023 Correspondence

State of New Jersey

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Waste & UST Compliance & Enforcement
Bureau of Solid Waste Compliance & Enforcement
9 Ewing Street
P.O. Box 420, Mail-Code 09-01
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SHAWN M. LATOURETTE
Commissioner

Sent via email to:
Keith Kazmark: kkazmark@ridgewoodnj.net
Christopher Rutishauser: crutishauser@ridgewoodnj.net

December 11, 2023

CERTIFIED MAIL – RRR
7022 3330 0001 3350 2709

RE: Ridgewood Village Historic Site at 460 West Saddle River Road
Issues with reported data associated with imported fill
EA ID#: U4347

Gentlemen:

The following evaluation of the analytical data reportedly associated with the soils imported to the referenced site reiterates information from Mr. Chris Rutishauser, Ridgewood Village's Director of Public Works/Village Engineer, followed by a response from NJDEP's Bureau of Solid Waste Compliance & Enforcement (BSWC&E). Further appropriate actions necessary to pursue closure of this solid waste case are also presented.

Ridgewood Explanation for South Broad Street Fill Source:
"I visited this site when the offer of the soil became available. I did not observe an[y] indications of contamination in the soils. The development that generated the material was reviewed by the Village's planning board, for which I am the licensed review engineer. The material required and received a Village of Ridgewood major soil moving permit (planning board approves the permit followed by Village Council approval of the permit). Testing was done on the material in 2018 by Peak Environmental. Peak estimated the quantity of soil at 8,000 cubic yards. Peak collected 14 samples for testing under a reduce[d] sample quantity due to justification. Peak did not note any impacts to the soils sampled. The first three pages of their report submitted explains their protocol and observations. We used this soil as the bulk of the material for the berm construction. The berm was constructed by the Village's Streets Division using several of the Village's rubber tire front end loaders."

BSWC&E Response for Ridgewood Dayton, LLC – 152 South Broad Street fill source:
The estimated 8,000 cubic yard soil source was indicated to be from excavations associated with the demolition of a building at a site that underwent remediation. No description of the remediation nor the potential of environmental impacts from the remediated discharge(s) to have impacted the soils taken to 460 Saddle River Road were discussed, yet the sampling and analyses protocol was reduced by relying on such data to reduce the analytical frequencies per cubic yard as compared to the NJDEP Guidance Document: "Fill Material Guidance for SRP Sites". Based on yet to be explained judgements, the analytical parameters were also further reduced. For example, for a volume of 8,000 cubic yards the aforementioned guidance document suggests that 21 samples be collected and analyzed unless information can be used to reduce such frequency to 14 samples to be analyzed. Yet, the consultant secured analyses from only 4 samples for polychlorinated biphenyls (PCBs, a.k.a. "Aroclors") and only 4 samples for pesticides while providing 14 samples for analyses for EPH, PAHs and Metals. While only 5 samples were analyzed for volatile organic compounds (VOC), field screening using a photoionization detector (PID) revealed no responses and therefore the BSWC&E does not disagree with the limitation of the VOC analyses. However, an explanation regarding the use of the reduced sampling frequencies and further reduction of analytes below those noted in NJDEP guidance has not been provided.

The Conformance/Non-Conformance Summary within the laboratory report submitted to the BSWC&E revealed that, while the instrumentation was operating correctly, sample matrix interference was observed which caused the surrogate recoveries of several of the metals analyzed via method 6010D and several of the semi-volatile organic compounds to produce analytical data which may be biased low.

Ridgewood Explanation for Bergen Community College Site fill source:
"Through a contact, Bergen Community reached out to the Village and inquired if we would like some fill soil. I examined the soils at the college. I did not observe any indication of contamination. On September 27, 2019 ANS Consultants collected 5-point grab samples and subjected them to laboratory analysis. Laboratory results indicated the soils were suitable for the intended use at the Schedler site. The Village received approximately 500 cubic yards of material from the college."

BSWC&E Response for Bergen County Community College fill source:
No discussion on the reason for the excavation at this site was provided. The volume of soil represented by the 5-point composite to one sample is reported at 500 cubic yards. Compositing of such sample, although not preferred, may be acceptable, depending upon the reason for the excavation. The cover letter to the tabulated data indicates that the Department (NJDEP) does not require the Mercury found at 0.615 ppm, which is over the Migration to Ground Water Standard of 0.1 ppm as noted in N.J.A.C. 7:26D, to be addressed unless there is cause to believe that its presence is due to a discharge. However, such policy is applicable only for background conditions or historical fill scenarios where the subject fill is proposed to remain in place and does not address the movement of such fill to another site without a requisite evaluation of the potential impacts of such fill material. That is, the property at 460 Saddle River Road was not undergoing a remediation approved by a Licensed Site Remediation Professional (LSRP) retained pursuant to N.J.A.C. 7:26C at the time the fill was imported. As such, fill was not integrated into a remedial process pursuant to the "Like on Like" – 75 percentile assessment as noted in N.J.A.C. 7:26E-5.2 nor was a site-specific Migration to Ground Water pathway soil remediation standard established pursuant to N.J.A.C. 7:26D. Accordingly, no information has been presented to justify bringing in contaminated fill to a site that may have been uncontaminated prior to the importation of the subject fill materials.

The area(s) at the 460 Saddle River Road site where these soils were distributed are currently unknown to the BSWC&E. Further, there was no laboratory report or Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be evaluated if limited to the information provided.

Ridgewood Explanation for 533 Wyndmere fill source:
"This location was a residential house that was constructing a large addition and reached out to us to see if we were interested in their surplus material. I examined the soil in the field. It was a fine to medium sand, trace silt and would be excellent grading fill for the Schedler project. The site's soil moving permit indicated approximately 280 cubic yards of cut and 40 cubic yards of fill. ANS Consultants collected one sample and subjected it to laboratory analysis on or about May 19, 2021. The results were acceptable for the intended use of the material."

BSWC&E Response for 533 Wyndmere fill source:
One sample from 320 cubic yards of soil and fill excavated from a residential home was analyzed for Target Analyte List and Target Compound List compounds for which the results did not indicate a concern.

The area(s) at the 460 Saddle River Road site where these soils were distributed are currently unknown to the BSWC&E.

There was no laboratory report or Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be evaluated if limited to the information provided.

Ridgewood Water DeBoer Avenue and Route 208 Water Main Installation:
"Trench spoil from this project was made available. On August 9, 2021 Aqua Pro-Tech Laboratories tested one grab sample. The soil was found to be acceptable for its intended use. The site provided approximately 200 cubic yards of fill. This is the one location I did not personally observe the material at its generating source."

BSWC&E Response for Ridgewood Water DeBoer Ave and Rt. 208 Water Main Installation:
It appears that one sample from a reported 200 cubic yard source was analyzed for volatile organic compounds, metals, PCBs and pesticides. No Chain of Custody was submitted. It is not known when the date of analysis was. There was no Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be completely evaluated if limited to the information provided.

However, a concern is noted for sample # 1080405-01 as it displayed a benzo[a]pyrene concentration of at least 0.48 parts per million (ppm) while the Residential Ingestion-Dermal pathway soil remediation standard for this compound is 0.51 ppm. Although the reported result is below the Residential Soil Remediation Standard that triggers the definition of solid waste, because this sample was diluted, presumably to rectify some matrix interference, the result is biased low.

This sample also displayed a mercury concentration of 0.105 ppm. N.J.A.C. 7:26D denotes a Migration to Ground Water pathway standard for Mercury of 0.1 ppm.

This sample also displayed a benzo[a]anthracene concentration of at least 2.60 ppm while N.J.A.C. 7:26D denotes a Migration to Ground Water pathway standard for this compound is 0.71 ppm.

Again, without LSRP interaction pursuant to N.J.A.C. 7:26 C, there was no evaluation of the appropriateness of bringing in contaminated fill to the 460 West Saddle River Road site.

The location(s) where this fill was distributed at 460 West Saddle River Road site has not been disclosed to the BSWC&E.

Ridgewood Explanation for Water Main Replacement Jefferson, William and Salem Streets fill source:
"The source of this material was the spoil from a water main replacement project in the following Village streets: Jefferson Street, William Street, and Salem Street. Work was done by a contractor working for Ridgewood Water Company. I observed the trenching work on several occasions. I did not note any contamination concerns. Three samples were collected, one from each street, and tested by Aqua Pro-tech Laboratories on or about September 22, 2020. Trench was approximately 4,100 linear feet, 2.5-feet wide and 4.5-feet deep for a volume of approximately 1,700 cubic yards of soil."

BSWC&E Response for Jefferson, William and Salem Streets fill source:
There was no Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be completely evaluated if limited to the information provided.

Ridgewood Explanation for the Ridgewood Water Company Spoil Pile:
"The Village's Water Company had excess soil from their water main break repairs. On January 12, 2021 SGS North America collected three grab soil samples for analysis. This testing was a follow up to testing Eurofins had done on December 22, 2016 of a single grab sample of soil. With the test results being acceptable for use, the Village trucked approximately 300 cubic yards of material from the spoil pile to Schedler. I observed this spoil pile before it was trucked and did not note any indications of contamination."

SWC&E Response for the Ridgewood Water Company Spoil Pile:
The 2016 sample results revealed detection limits that were higher than the remediation standards. For example, the sample analyzed for benzo[a]pyrene was diluted ten-fold yielding a detection limit of 0.94 ppm while the Residential Ingestion-Dermal pathway remediation standard for this compound is 0.51 ppm. Further, the laboratory Case Narrative disclosed surrogate recovery issues with several organic compounds and metals. The follow-up analyses reported for the subject materials revealed that benzo[a]anthracene was detected in sample S-15R at 0.75 ppm which is above the Migration to Ground Water Pathway soil remediation standard for this compound which is 0.71 ppm. Further, benzo[a]pyrene in this sample was reported at a concentration of 0.744 ppm while the Residential Ingestion-Dermal Pathway remediation standard for this compound is 0.51 ppm, thus triggering the definition of solid waste. Sample S-18R revealed similar elevated concentrations of benzo[a]anthracene of 0.873 ppm and 0.852 ppm respectively. BSWC&E's interpretation of the Case Narrative/Conformance Summary did not raise concerns regarding the accuracy of the compounds found at concentrations over the noted remediation standards.

No locations where the subject materials were deposited have been provided. Further, given the exceedance of the remediation standards, no explanation regarding the suitability of the subject material for the 460 West Saddle River Road site was provided.

REQUIRED FURTHER ACTIONS TO DOCUMENT FILL QUALITY:

Berm Along Route 17:

With respect to the soils used to construct the berm, the following actions are necessary to further evaluate the suitability of such materials for the site at 460 Saddle River Road:

1. Provide a detailed explanation describing how the previous analytical data collected for the remediation case that was the source of the fill along with the physical distances or barriers between the contaminated materials and the materials brought to the 460 West Saddle River Road site to justify employing a reduction in the analytical frequencies published in NJDEP guidance.

2. Assuming that, in the opinion of the BSWC&E, such explanation is acceptable, provide a Sampling and Analysis Plan (SAP) that incorporates the following scope of work: collect ten discrete grab (non-composited) samples from the soil berm at equally distributed aerial and vertical locations representing a full cross section of the berm. Using an NJDEP certified laboratory who are also certified by the NJDEP for the test methods employed, analyze each of these samples for those Pesticides and PCBs from the Target Compound List and in accordance with the test methods noted therein as defined in N.J.A.C. 7:26E-1.8. Further, for the data already submitted to the BSWC&E, perform a comprehensive review of the Conformance/Non-Conformance Summary to determine which samples displayed biased low results for metals and semi-volatile organic compounds and add such analytes to similarly equally spaced samples such that there will be at least 14 samples representing Target Analyte List metals and Target Compound List semi-volatile organics, each as defined and in accordance with the analytical procedures noted in N.J.A.C. 7:26E-1.8, for which reliable data is generated. Provide a detailed explanation on this review and analyte selection process. For the purposes of compliance with the solid waste issue, it is not necessary to perform analyses for Tentatively Identified Compounds.

   The SAP shall include a scaled site map noting the proposed sampling locations and analytical parameters. The plan should not be implemented until approved in writing by the BSWC&E.

Other Imported Fill Areas of Deposition:

With respect to the soils/fill deposited in other areas of the property at 460 West Saddle River Road, the BSWC&E has observed that such fill contains materials that, at least from a geotechnical consideration, may not be suitable base material for the artificial turf which the BSWC&E understands is being contemplated for this site. As such, should any of the fill deposited outside of the berm be removed from the property, appropriate characterization of same is needed to ensure that it's use, or disposal is consistent with NJDEP regulations. If any of this fill is contemplated to remain in place, without knowing the locations of the deposition of the various sources of the fill material and because the data for at least some of the fill material is suspect, the aforementioned SAP should be expanded to incorporate sampling of the remaining areas of imported fill deposition. Such expanded plan should incorporate a scaled site map depicting a grid pattern denoting where discrete (non-composited) samples will be collected for analyses for Target Analyte List and Target Compound List analytes as defined and in accordance with the analytical methods noted in N.J.A.C. 7:26E -1.8 (minus volatile organic analyses if appropriate soil gas screening confirms such analyses is not necessary). The expanded SAP should not be implemented until approved in writing by the BSWC&E.

Case Management:

In order to close the solid waste issue associated with the imported fill materials, any such fill that exceeds the Residential Ingestion-Dermal/Inhalation soil remediation standards (without performing data averaging) must be removed. Accordingly, following review of the data to be generated from the SAP, the BSWC&E will advise Ridgewood Village of the scope of work needed to incorporate into a Corrective Action Plan (CAP) designed to address any residual solid waste as determined by both the physical and chemical triggers noted in N.J.A.C. 7:26 -1.6(a)6. The CAP should not be conducted until approved in writing by the SWC&E.

Once the BSWC&E is satisfied that appropriate removal of the fill materials that trigger the definition of solid waste at N.J.A.C. 7:26-1.6(a)6 has been achieved, a letter will be issued noting that the subject solid waste issue has been resolved.

Please note that the BSWC&E does not offer opinions on whether or not a site has been remediated or if a site is suitable to allow leaving fill materials in place that do not trigger the definition of solid waste, but have a contaminant within them at a concentration greater than the respective default Migration to Ground Water soil remediation standard at N.J.A.C. 7:26D. Accordingly, if it is desired to pursue further evaluation of the suitability to leave such soils in place, alternative, site specific Migration to Ground Water pathway standards can be generated as afforded by N.J.A.C. 7:26D if approved by a Licensed Site Remediation Professional (LSRP) retained pursuant to the Administrative Requirements for the Remediation of Contaminated Sites as noted in N.J.A.C. 7:26C. Accordingly, Ridgewood Village may want to consider performing additional testing approved by such LSRP to address such pathway during the mobilization addressing the requisite sampling to further evaluate the solid waste issues.

Enforcement:

Please be advised that Ridgewood Village's documented use of contaminated fill at this site is in violation of the Solid Waste Management Act, particularly N.J.A.C. 7:26-2.8(e). As such, the BSWC&E expects full cooperation from Ridgewood Village at this time to facilitate the BSWC&E's discretionary authority to minimize any enforcement actions/penalty assessments. **As such, please provide the requisite Sampling and Analysis Plan within sixty (60) days upon receipt of this correspondence.**

Attached to this letter please find generic guidance from the BSWC&E addressing our expectations associated with data collection. Should you have any questions, please promptly contact me.

Regards,

Tom Farrell, Chief
Bureau of Solid Waste Compliance & Enforcement

c: Dave Ongaro, BSWC&E
Gina Lugo, BSWC&E
Mike Hastry, DW&USTC&E
Kate Marcopul, DEP – Historic Preservation Office
Keona Miller, DEP – Local Government Affairs

State of New Jersey

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
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SHAWN M. LATOURETTE
Commissioner

DATA REVIEW DOCUMENTATION FORM

 (last updated October 2023)

The following information should accompany analytical data submitted to the Bureau of Solid Waste Compliance and Enforcement (BSWC&E) for a determination that is limited to whether or not the materials represented by such data trigger the definition of solid waste pursuant to N.J.A.C. 7:26 - 1.6(a)6. BSWC&E's acknowledgement of such data shall not be construed to suggest that the New Jersey Department of Environmental Protection considers that the site represented by this data has been fully remediated in whole or in part. As this form is not designed for any one particular site, not all sections may be applicable.

☐ Current Name and Address of site:

_____

_____

☐ Specific Historical uses of property:

_____

_____

☐ Mapped on NJ GeoWeb as located in an area of Historical Fill? _____

☐ Have the subject materials been in contact with any construction and demolition debris or historical discharge of a hazardous substance or historical fill? _____

SAMPLE COLLECTION INFORMATION:

☐ Was the sampling conducted in conformance with the Technical Requirements for Site Remediation at N.J.A.C. 7:26E and the most recent version of the NJDEP Field Sampling Procedures Manual? _____. If no, please explain:

_____

_____.

☐ Was the sampling conducted to address a known volume of materials? _____ If so, what is the total volume of materials addressed by this project? _____ cubic yards.

☐ If the sampling addressed an area wherein the volume of potentially contaminated materials was not known, how many square feet is such Area of Concern? _____ square feet.

☐ **Only for sites where no VOCs are expected:** Were Target Compound List Volatile Organic Compounds (VOCs) eliminated from the analyses based on the response from a photoionization detector (PID)? _____

- If a PID was used, how, when and by whom was it calibrated (please include the type of calibration gas used)?

_____

_____

- What was the eV value of the bulb used in the PID? _____.
- At what units in parts per million (ppm) of response on the PID was the fill considered to not require analysis for VOCs?_____ .

Describe the process used to screen the materials with the PID. If screening was conducted within in situ materials, please include areal frequency in square feet and depths (from surface grade). If screening was conducted within stockpiled materials, please include the distances within the stockpile and frequency of screening per cubic yards.

_____

_____.

☐ If other information was used to eliminate volatile organics from the testing methods of the subject fill besides PID screening, please note same here:

Please complete the following table:

Analytical Group	**Analytical Frequency per cubic yard of stockpiled materials (if applicable)**	**Analytical Frequency per square foot of in situ materials in Area of Concern (if applicable)**	**Reason for Noted Analytical Frequency**
Target Analyte Metals			
Target Compound List Volatile Organic Compounds			
Target Compound List Semi- Volatile Organic Compounds			
Target Compound List Pesticides			
Target Compound List PCBs			

☐ Has a Sample Location Map been provided noting the sample identification numbers in a manner that one who had not seen the site could readily understand where the samples were collected?

☐ If there was any deviation from the Department's most recent version of the Guidance Documents: *Fill Materials Guidance for SRP Sites, October 2021* or *Understanding DEP's Requirements for Soil and Fill Materials*, please provide your justification for same here:

SAMPLE ANALYSIS INFORMATION:

☐ List the name and the New Jersey Laboratory Certification number(s) for the laboratory(ies) used:

_____.

☐ Were there any analyses conducted for which the laboratory did not have a specific New Jersey certification to perform same (note: In addition to the NJ Laboratory Certification, laboratories are required to hold a certification from NJDEP for each analytical method)?
If yes, please specify which test method and affected analytes was/were not certified by NJDEP: _____.

☐ Has the analyses been performed in accordance with N.J.A.C. 7:26E-2 and accompanied by the applicable Reduced Regulatory Deliverables pursuant to Attachment A-II of N.J.A.C. 7:26E? _____.

☐ Does each laboratory report contain a summary of the samples received noting any deficiencies with, at a minimum: temperature of the samples upon receipt, condition of the sample bottles, appropriate Chain of Custody documentation, compliance with sample holding times? If any such deficiencies were noted, please list them here:

_____

_____.

☐ Was a Conformance/Non-Conformance Summary included for each laboratory report? _____

☐ Did the Conformance/Non-Conformance Summary suggest data that could not be relied upon? _____. If yes, please specify which analytes for which samples were not usable:

_____

_____.

☐ Has any data averaging been employed in an Area of Concern to generate the conclusions drawn? _____If so, specify which Area of Concern employed data averaging and include the computations for same in the report of findings.

☐ Has the data been tabulated with comparison to NJDEP Remediation Standards at N.J.A.C. 7:26D? _____

Per my signature below, I certify that the information provided on this form is true and accurate to the best of my knowledge.

Print name of person completing this form: _____;sign:_____;date:_____

State of New Jersey

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
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SHAWN M. LATOURRETE
Commissioner

STANDARD SAMPLING and ANALYSES PLAN APPROVAL

Project Name:
NJEMS PI#:
Date of S&AP:

The following document contains standard conditions and limitations that accompany any communication from the Bureau of Solid Waste Compliance and Enforcement (BSWC&E) which indicate approvals of Sampling and Analysis Plans. Unless otherwise appended to or altered by official written correspondence from the BSWC&E, these conditions and limitations shall apply.

1.) This approval is limited to determine whether or not the soil/fill materials being sampled meet the portion of the definition of solid waste that addresses contaminant concentrations as referred to in N.J.A.C. 7:26-1.6(a)6. As such, analytical results from **any one** sample that indicate concentrations of contaminants that are above the Residential Ingestion-Dermal or Residential Inhalation soil remediation standards at N.J.A.C. 7:26 D are indicative of solid waste. While delineation of such contamination is acceptable with a plan approved by BSWC&E, **no compliance averaging** is accepted.

2.) The BSWC&E does not make determinations regarding whether or not soils or materials can be considered as Clean Fill pursuant to N.J.A.C. 7:26E -1.8. As such, upon receipt of acceptable data that indicates contaminant concentrations that are compliant with the definition of solid waste at N.J.A.C. 7:29-1.6(a)6, the BSWC&E will acknowledge same by noting compliance has been achieved with respect to the particular solid waste violation associated with the quality of the soil/fill materials. The BSWC&E does not make determinations regarding whether or not a site has been remediated.

3.) All sampling must be performed in accordance with the latest version of the NJDEP's Field Sampling Procedures Manual and N.J.A.C. 7:26 E – The Technical Requirements for Site Remediation.

4.) All analyses must be performed by a laboratory that has at least the following two certifications:

   a.) Overall Laboratory Certification from the State of New Jersey; and, (b) Certification from the State of New Jersey for the particular test method being employed.

Project Name:
NJEMS PI#:
Date of S&AP:

5). Any proposed analytes shall incorporate the test methods associated with EPA's Contract Laboratory Program (CLP) and shall be those analytes included in the respective Target Analyte List (TAL) or Target Compound List (TCL) of the CLP. For example, any proposal to analyze for "Metals" shall be inclusive of all metals in the TAL. It is not necessary to include Tentatively Identified Compounds (TICs) when analyzing for TCL compounds. BSWC&E does not interpret Extractable Petroleum Hydrocarbon (EPH) data.

6.) The Quality Assurance Plans shall incorporate quality control provisions and report same that are at least as comprehensive as the Reduced Regulatory Deliverables pursuant to Attachment A-II of N.J.A.C. 7:26 E. The locations of the Laboratory Non-Conformance Summary, Sample Receipt Form and Chain of Custody shall be readily identified in the laboratory report.

7.) To expedite the BSWC&E's data review, in addition to the full scale laboratory report, a separate table shall be submitted which compares the data to the Residential Ingestion-Dermal and Residential Inhalation soil remediation standards at N.J.A.C. 7:26D. In order to facilitate the BSWC&E determination on whether or not the site needs to be referred to the Department's Site Remediation Program, the data should also be compared to the default Migration to Ground Water pathway soil remediation standards at N.J.A.C. 7:26D. Any comparison to a site specific Migration to Ground Water pathway soil remediation standard would not be performed by the BSWC&E. Further, if the site is located in a wetlands or other area of ecological significance, the analytical results should also be compared to the Ecological Screening Criteria.

Place an "X" or appropriate number next to the applicable statement(s):

8.) The proposed sampling frequency is: ____ acceptable as proposed; _____ needs to be increased to one sample per ____ cubic yards (for sampling the subject fill) or, one sample per ___ square feet (for post-excavation analyses).

9.) The proposed analytes are: ____ acceptable as proposed; ____ needs to include all of the TAL metals; _____ needs to include all of the TCL semi-volatile organics; ___ needs to include all of the TCL pesticides; ____needs to include all of the TCL PCBs; ___ needs to include all of the TCL VOCs.

10.) The proposed field screening for volatile organic compounds (VOCs): ____ is acceptable as proposed; _____must perform field screening with the stated instrument at intervals of ___ cubic yards or ____ square feet (if post excavation sampling); ____ must provide documentation of proper calibration; ___ if a photoionization detector is to be used, must specify the electron voltage of the bulb used.

Plan Approved By: _____
on _____

APPENDIX B

Berm Sampling and Analysis Plan

SAMPLING AND ANALYSIS PLAN
RIDGEWOOD VILLAGE HISTORIC SITE
460 WEST SADDLE RIVER ROAD
BLOCK 4704, LOT 9, 10, 11, 12
VILLAGE OF RIDGEWOOD, BERGEN COUNTY, NEW JERSEY

MATRIXNEWORLD

Engineering Progress

Submitted to:
Bureau of Solid Waste Compliance & Enforcement
New Jersey Department of Environmental Protection
9 Ewing Street
P.O. Box 420
Trenton, New Jersey 08625-0420

Submitted for:
Mr. Christopher Rutishauser, P.E., CPWM
Director of Public Works/Village Engineer
Village of Ridgewood
131 North Maple Avenue
Ridgewood, New Jersey 07450

Submitted by:
Matrix New World Engineering, Land Surveying
and Landscape Architecture, P.C.
26 Columbia Turnpike
Florham Park, New Jersey 07932

Matrix No. 23-1429

April 2024

EXECUTIVE SUMMARY

Matrix New World Engineering, Land Surveying, and Landscape Architecture, P.C. (Matrix) on behalf of the Village of Ridgewood, was contracted to prepare this Sampling and Analysis Plan (SAP) for the property located at 460 West Saddle River Road, Ridgewood, Bergen County, New Jersey (Site). The property consists of Block 4704, Lots 9, 10, 11, and 12. The Site underwent soil importation efforts as part of redevelopment activities to improve the Site with passive and active recreational spaces. The redevelopment activities include the construction of a berm along the western boundary of the Site and general site filling efforts. Six different fill sources were utilized in the filling activities with quantities ranging from 200 cubic yards (CYs) to 8,000 CYs including:

- 152 South Broad Street, Ridgewood, NJ;
- Bergen Community College, Paramus, NJ;
- 533 Wyndemere Avenue, Ridgewood, NJ;
- Ridgewood Water DeBoer Street and Route 208 Water Main Installation;
- Water Main Replacement Jefferson, William, and Salem Streets; and
- Ridgewood Water Company Spoil Pile.

The following SAP summarizes proposed investigation activities for the Site and is based on information obtained from the Village of Ridgewood and correspondence from the New Jersey Department of Environmental Protection (NJDEP) dated December 11, 2023 and included as Appendix A. The objective of this investigation is to determine whether contaminated soil has the potential to exist within the limits of the constructed berm and area of the Site believed to have received imported fill material. The findings will provide a soils baseline to assess current environmental conditions and assist in project close-out. The advancement of up to 14 soil borings and samples are proposed within the berm material. All soil borings will be advanced to a depth within the limits of the imported soils (approximately 5 to 10 feet below ground surface [bgs]). All soil samples will be collected for Target Compound List (TCL) semi-volatile organic compounds (SVOCs) and Target Analyte List (TAL) metals analyses with 10 of the borings additionally analyzed for Pesticides and Polychlorinated Biphenyls (PCBs). The advancement of up to five soil borings and samples are proposed within the northwestern portion of the Site. All soil borings will be advanced to a depth within the limits of the imported soils (approximately five feet bgs). One soil sample from each boring will be collected and submitted for TCL/ TAL plus 30 tentatively identified compounds (+30) and Extractable Petroleum Hydrocarbons (EPH) analyses. Samples for hexavalent chromium will be collected as contingent analysis and only analyzed if total chromium is greater than 20 milligrams per kilogram (mg/kg).

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F	Water Main Replacement – Jefferson, William, and Salem Streets Analytical Data
G	Ridgewood Water Company Spoil Pile

1.0 INTRODUCTION

Matrix New World Engineering, Land Surveying, and Landscape Architecture, P.C. (Matrix) on behalf of the Village of Ridgewood, was contracted to prepare this Sampling and Analysis Plan (SAP) for the property located at 460 West Saddle River Road, Ridgewood, Bergen County, New Jersey (Site). The property consists of Block 4704, Lots 9, 10, 11, and 12. The Site underwent soil importation efforts as part of redevelopment activities to improve the Site with passive and active recreational spaces. The redevelopment activities include the construction of a berm and site filling efforts. Six different fill sources were utilized in the filling activities with quantities ranging from 200 cubic yards (CYs) to 8,000 CYs. The following SAP summarizes proposed investigation activities for the Site and is based on information obtained from the Village of Ridgewood and correspondence from the New Jersey Department of Environmental Protection (NJDEP) dated December 11, 2023 and included as Appendix A.

1.1 Site Description

The Site is located at 460 West Saddle River Road in Ridgewood, Bergen County, New Jersey. The Site consists of Block 4704, Lots 9 (3.76 acres), 10 (0.40 acres), 11 (1.74 acres), and 12 (1.24 acres) and is approximately 7.14 acres (311,018.40 square feet). The Site is developed with one unoccupied single-family residence, detached garage, garden shed, and a historic potable water well that is no longer in operation on Lot 10. The remainder of the site is wooded with deciduous trees and overgrown lawn areas. As part of redevelopment activities, soils were reportedly imported to the Site for the creation of a berm along the western side of Lots 9 through 12 and general site filling. Based on correspondence between the Village of Ridgewood and the NJDEP's Bureau of Solid Waste Compliance & Enforcement (BSWC&E), the source and quality (i.e., alternative fill or clean fill) of the material was brought into question.

The Site is bound by New Jersey State Highway Route 17 to the west, West Saddle River Road to the east, residential properties to the north, and the intersection of New Jersey State Highway Route 17 and West Saddle River Road to the south. The Site is zoned as Single-Family Residence (R-125), according to the 2022 Village of Ridgewood Zoning Map and lies within an area of mixed-use: including office and residential properties. The topography of the Site fluctuates between approximately 107 and 119 feet above mean sea level (AMSL) throughout majority of the Site, however the berm along the western Site boundary begins at 112 feet AMSL and reaches its highest elevation at 119 feet AMSL. A Site Location Plan depicting the Site topography is presented as Figure 1.

1.2 Site Filling Sources

Soils for the redevelopment activities were imported from six different sites throughout the Village of Ridgewood, Paramus, or Glen Rock, New Jersey. The soil was utilized to construct a berm along the western boundary of the Site adjacent to Route 17 or to fill in low-lying areas in the northwestern portion of the Site. A total of approximately 11,020 CYs of soil were imported to the Site. Each donor site provided between 200 and 8,000 CYs of soil. Summaries of the data collected to date from each donor site are provided below:

- 152 South Broad Street, Ridgewood, NJ: Approximately 8,000 CYs of soil were imported to the Site from 152 South Broad Street in Ridgewood, NJ, a site which was redeveloped into an apartment complex. The soil was utilized in construction of the soil berm along the western boundary of the Site. Peak Environmental (Peak) conducted sampling in October 2018 based on the NJDEP's Guidance Document "Fill Material Guidance for SRP Sites" (Fill Guidance), which requires the collection of 21 soil samples for the characterization of 8,000 CYs. Based on historical investigations at the site (Preliminary Assessment [PA], Site Investigation Report [SIR], Remedial Investigation Report [RIR], and Remedial Action Workplan [RAW], Peak opted to complete the sampling utilizing the reduced sampling frequency of 14 soil samples. However, no justification beyond stating that this site had a known history within the SRP was provided to rationalize a reduced sampling frequency. All 14 samples were analyzed for Extractable Petroleum Hydrocarbons (EPH), 10 samples were analyzed for Target Analyte List (TAL) Metals and Polynuclear Aromatic Hydrocarbons (PAHs), 5 samples were analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs), and 4 samples were analyzed for the full TCL/TAL plus a library search (+30). The NJDEP's Fill Guidance states that all samples should be analyzed for TCL/TAL+30 and EPH, unless a targeted suite of contaminants can be justified. Based on the lack of justification in the selection of the analyses, the NJDEP was not satisfied with the reduced analysis. Therefore, the NJDEP requires further investigation (i.e., review of previous analytical data and additional soil sampling) to evaluate the suitability of the materials for the Site. The analytical results are included in Appendix B.

- Bergen Community College, Paramus, NJ: Approximately 500 CYs of soil were imported to the Site from Bergen Community College (BCC) in Paramus, NJ. No reasoning was provided for the purpose of the excavation. Soil sampling of the material was completed by ANS Consultants (ANS) in September 2019. One five-point composite sample was collected and analyzed for TCL/TAL, total petroleum hydrocarbons (TPH), pH, hexavalent chromium, and trivalent

chromium. While a composite sample representing the 500 CYs of material is not preferred, the NJDEP stated they would be willing to accept the data depending upon the purpose of the excavation. Based on the reported results, mercury was detected exceeding the NJDEP's May 2021 Migration to Groundwater Soil Remediation Standards (MGWSRS). ANS did not believe the mercury exceedance needed to be addressed based on the assumption that mercury may be found as a background contaminant. While this may be accurate, this policy only applies to scenarios where the subject fill is proposed to remain in place and is not to be moved to another site without evaluating the potential impacts of the fill material. Since the Site was not undergoing remediation under the guidance of a Licensed Site Remediation Professional (LSRP), the exceedances from the BCC fill were not integrated into a remedial process using the "Like on Like" – 75 percentile assessment or by creating a site-specific MGWSRS. ANS did not present any information justifying the import of contaminated fill onto a site that may have been uncontaminated prior to the importation of the BCC fill material. Further no laboratory report or Non-Conformance summary was provided with the data therefore, the integrity of the analytical results cannot be evaluated. According to the Village engineer, the BCC soils were placed in the northwestern portion of the Site, near Block 4704, lot 12. Based on the unknown conditions of the excavation, impacted material, and omission of a laboratory report, the NJDEP was not satisfied with the information provided for this fill source. Therefore, the NJDEP requires further investigation (i.e., additional soil sampling) to evaluate the suitability of the materials for the Site. The analytical results are included in Appendix C.

- 533 Wyndemere Avenue, Ridgewood, NJ: Approximately 320 CYs of soil were imported to the Site from a residential construction project (large addition) at 533 Wyndemere Avenue in Ridgewood, NJ. Soil sampling of the material was completed by ANS in May 2021. One sample (unknown if it was a grab or composite sample) was collected and analyzed for TCL/TAL. No concentrations were detected exceeding the NJDEP Soil Remediation Standards (SRS). However, no laboratory report or Non-Conformance summary was provided with the data therefore, the integrity of the analytical results cannot be evaluated. According to the Village engineer, the 533 Wyndemere Avenue soils were placed in the northwestern portion of the Site, near Block 4704, lot 12. Based on the omission of a laboratory report, the NJDEP was not satisfied with the information provided for this fill source. Therefore, the NJDEP requires further investigation (i.e., additional soil sampling) to evaluate the suitability of the materials for the Site. The analytical results are included in Appendix D.

- Ridgewood Water DeBoer Street and Route 208 Water Main Installation: Approximately 200 CYs of soil were imported to the Site from construction associated with a water main installation on DeBoer Avenue and Route 208 in Glen Rock, NJ. Soil sampling of the material was completed by Aqua Pro-Tech Laboratories (Aqua Pro-Tech) in August 2021. One grab sample was collected and analyzed for VOCs, pesticides, polychlorinated biphenyls (PCBs), and TAL metals. Two compounds, mercury and benzo(a)anthracene were detected exceeding their MGWSRS. In addition, benzo(a)pyrene was detected marginally below the Residential Ingestion Dermal Soil Remediation Standard (RIDSRS) however, many of the SVOCs (including benzo(a)pyrene and benzo(a)anthracene) required dilution therefore, the results are biased low. Since the Site was not undergoing remediation under the guidance of a LSRP, the exceedances from the DeBoer Avenue and Route 208 water main installation fill were not integrated into a remedial process using the "Like on Like" – 75 percentile assessment or by creating a site-specific MGWSRS. Aqua Pro-Tech did not present any information justifying the import of contaminated fill onto a site that may have been uncontaminated prior to the importation of the DeBoer Avenue and Route 208 water main installation fill material. Further no laboratory report or Non-Conformance summary was provided with the data therefore, the integrity of the analytical results cannot be evaluated. According to the Village engineer, the DeBoer Avenue and Route 208 water main installation soils were placed in the northwestern portion of the Site, near Block 4704, lot 12. Based on the impacted material and omission of a laboratory report, the NJDEP was not satisfied with the information provided for this fill source. Therefore, the NJDEP requires further investigation (i.e., additional soil sampling) to evaluate the suitability of the materials for the Site. The analytical results are included in Appendix E.

- Water Main Replacement Jefferson, William, and Salem Streets: Approximately 1,700 CYs of soil were imported to the Site from construction associated with a water main replacement on Jefferson Street, William Street, and Salem Lane in Ridgewood, NJ. Soil sampling of the material was completed by Aqua Pro-Tech in September 2020. Three samples (unknown if they were grab or composite samples) were collected, one from each street, and analyzed for TCL/TAL+30, pH, cyanide, hexavalent chromium, and Redox Potential. No concentrations were detected exceeding the NJDEP Soil Remediation Standards (SRS). However, no laboratory report or Non-Conformance summary was provided with the data therefore, the integrity of the analytical results cannot be evaluated. According to the Village engineer, the 533 Wyndemere Ave. soils were placed in the northwestern portion of the Site, near Block 4704, lot 12. Based on the omission of a laboratory report, the NJDEP was not satisfied with the information provided for this fill source.

Therefore, the NJDEP requires further investigation (i.e., additional soil sampling) to evaluate the suitability of the materials for the Site. The analytical results are included in Appendix F.

- Ridgewood Water Company Spoil Pile: Approximately 300 CYs of soil were imported to the Site from excess soil acquired through water main break repairs in Ridgewood, NJ. Soil sampling of the material was completed by Eurofins in December 2016 and SGS North America (SGS) in January 2021. One grab sample was collected by Eurofins in December 2016 and analyzed for TCL/TAL. Reporting limits for several constituents were identified exceeding the remediation standards along with surrogate recovery issues with several organic compounds and metals. Three grab samples were collected by SGS in January 2021 and analyzed for TCL SVOCs plus 20 tentatively identified compounds (+20) The sample results indicated that benzo(a)anthracene and benzo(a)pyrene were detected exceeding their MGWSRS and RIDSRS, respectively. Since the Site was not undergoing remediation under the guidance of a LSRP, the exceedances from the Ridgewood Water Company Spoil Piles were not integrated into a remedial process using the "Like on Like" – 75 percentile assessment or by creating a site-specific MGWSRS. Eurofins and SGS did not present any information justifying the import of contaminated fill onto a site that may have been uncontaminated prior to the importation of the fill material. According to the Village engineer, the Ridgewood Water Company spoils were placed in the northwestern portion of the Site, near Block 4704, lot 12. Based on the impacted material and the lack of explanation regarding the suitability of the fill for the Site, the NJDEP was not satisfied with the information provided for this fill source. Therefore, the NJDEP requires further investigation (i.e., additional soil sampling) to evaluate the suitability of the materials for the Site. The analytical results are included in Appendix G.

2.0 SAMPLING AND ANALYSIS PLAN

2.1 Scope of Work

The objective of this investigation is to determine whether contaminated soil has the potential to exist within the limits of the constructed berm and area of the Site believed to have received imported fill material. The findings will provide a soils baseline to assess current environmental conditions and assist in project close-out.

This SAP may be revised in the field in the event that potential areas of environmental concern (i.e., staining, discolored soil or other indicators of potential surface or subsurface contamination) are identified during the implementation of field activities. This SAP is intended for the use of Matrix personnel only. Matrix will not be responsible for the implementation of other sampling plans.

All work will be conducted in general accordance with the NJDEP Technical Requirements for Site Remediation (TRSR) N.J.A.C. 7:26E, NJDEP Field Sampling Procedures Manual (FSPM) and applicable NJDEP Guidance documents.

2.2 Sample Collection

Prior to conducting the subsurface investigation, the drilling contractor will be responsible for obtaining proper utility mark-outs and required work permits, and active utility clearance prior to drilling. Soil borings will be advanced using Geoprobe® “direct push” technology or via hand tools. Soil samples will be collected via five-foot dedicated acetate sampling cores. All soil samples will be classified based on their color, structure, and particle size and field-screened using a photo-ionization detector (PID), calibrated using isobutylene span gas with a concentration of 100 parts per million (ppm). Coordinates of each soil boring will be collected by Matrix via a handheld global positioning system (GPS) unit. Soil sampling activities will require 2 days to complete. Matrix will coordinate with the property owner to allow access to the soil boring locations.

All soil sample analyses will be conducted by SGS Laboratories (NJDEP No. 12129) of Dayton, New Jersey under chain-of-custody documentation. The analytical data package for all samples will be a NJDEP Reduced Deliverables Package in Data Known Quality Protocol format. Figure 2 depicts the soil boring locations for the total of 19 proposed soil borings within the Site. The locations of the soil borings may be revised while in the field.

Quality assurance/quality control (QA/QC) samples will also be collected and analyzed in accordance with the NJDEP's FSPM A field blank and/or trip blank will be collected and submitted for each day of sampling.

2.2.1 Soil Sampling – Berm

The advancement of up to 14 soil borings are proposed within the berm material. The borings will be equally distributed across the berm to ensure an accurate cross section of the berm is represented. Boring locations may be slightly adjusted in the field to accommodate recent tree plantings. All soil borings will be advanced to a depth within the limits of the imported soils (approximately 5 to 10 feet below ground surface [bgs]). One soil sample from each boring will be collected for TCL SVOCs and TAL metals analyses with 10 of the borings additionally utilized to investigate Pesticides and PCB analyses. Soil samples, as detailed in Table 1, will be collected from the borings biased towards the discrete 6-inch interval with the greatest potential for contamination based on field observations (i.e., elevated PID readings, staining, odor, evidence of fill materials, etc.). If no evidence of contamination is identified, soil samples will be collected from varying six-inch intervals to ensure the berm is fully represented.

Table 1: Soil Sample Summary Table – Berm

Number of Borings/Samples	Analytical Parameters
10 borings/1 sample	TCL Pesticides and PCBs
14 borings/1 sample	TCL SVOCs and TAL Metals

NOTES:
TCL = Target Compound List
PCBs = Polychlorinated Biphenyls
SVOCs = Semi-volatile Organic Compounds
TAL = Target Analyte List
10 of the soil borings will be co-located to allow for the investigation of multiple analytical parameters.

2.2.2 Soil Sampling – Other Imported Fill Areas

The advancement of up to five soil borings are proposed within the northwestern portion of the Site. The borings will be equally distributed throughout the area where filling took place to ensure an accurate cross section of the imported fill is represented. All soil borings will be advanced to a depth within the limits of the imported soils (approximately five feet bgs). One soil sample from each boring will be collected and submitted for TCL/TAL plus 30 tentatively identified compounds (+30) and EPH analyses. Samples for hexavalent chromium will be collected as contingent analysis and only analyzed if total chromium is greater than 20 milligrams per kilogram (mg/kg). A total of five soil samples, as detailed in Table 2, will be collected from the borings biased towards the discrete 6-inch interval with the greatest potential for contamination based on field observations (i.e., elevated PID readings, staining, odor, evidence of fill

materials, etc.). If no evidence of contamination is identified, soil samples will be collected from varying six-inch intervals to ensure imported fill limits are fully represented.

Table 2: Soil Sample Summary Table – Other Imported Fill Areas

Number of Borings/Samples	Analytical Parameters
5 borings/1 sample	EPH, TCL/TAL+30, Hexavalent Chromium (contingent)

NOTES:
TCL/TAL+30 = Target Compound List/Target Analyte List plus tentatively identified compounds

2.2.3 Waste Handling

Upon completion of each soil boring, drill cuttings will be placed back into the bore hole to the surface and the surface restored to match the surrounding ground material.

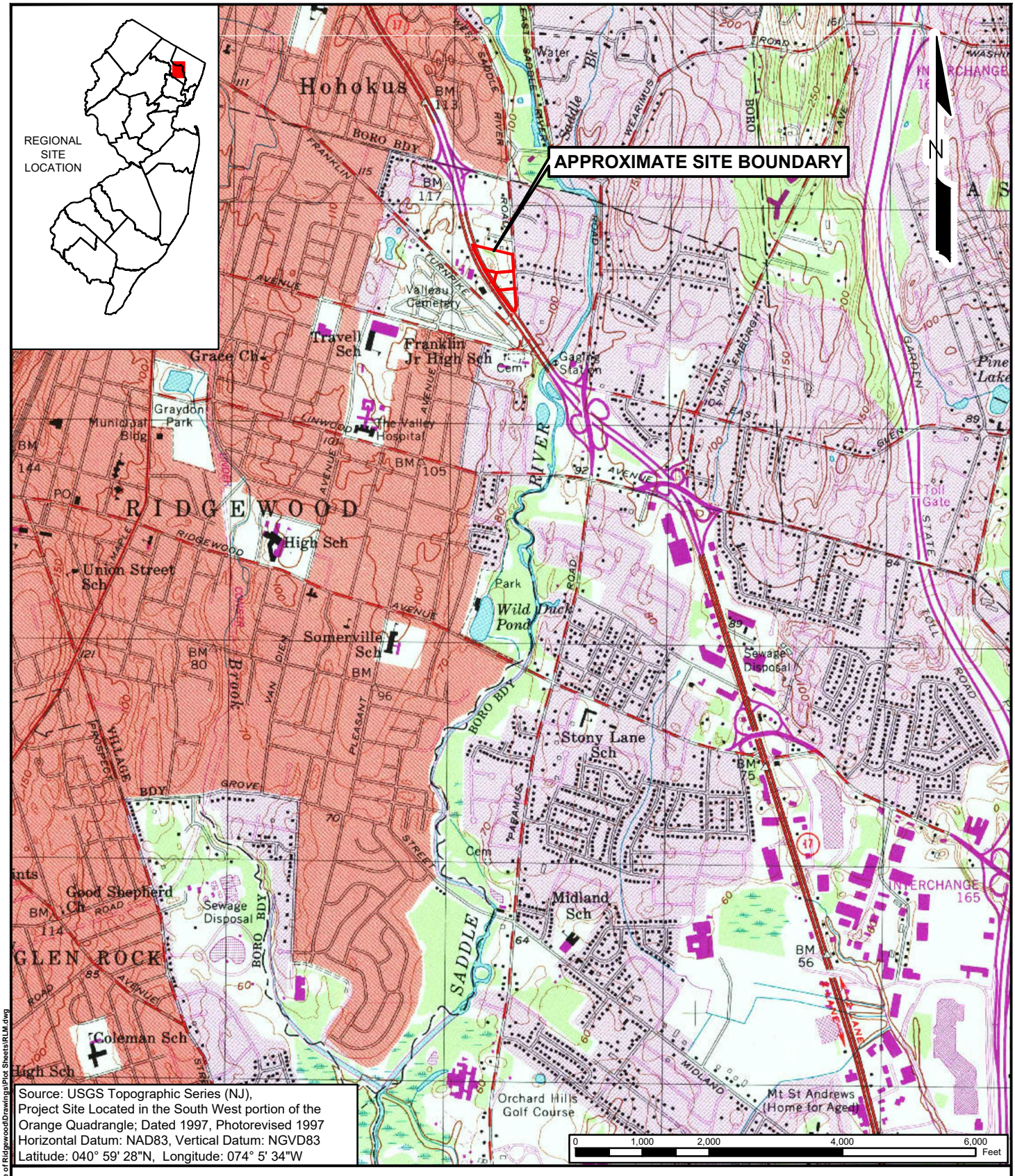
2.4 Reporting

Upon the completion of all soil investigation field activities and receipt of all analytical data, an Environmental Summary Report will be prepared and will include:

- Sample location plan
- Summary of sampling events activities
- Summary of laboratory reported analytical results compared to applicable criteria and standards.
- Soil boring logs
- Laboratory analytical package
- Discussion of any remedial needs

The laboratory reported soil sample analytical results will be compared to NJDEP's Soil Remediation Standards, promulgated at N.J.A.C. 7:26D.

FIGURES



Source: USGS Topographic Series (NJ),
Project Site Located in the South West portion of the Orange Quadrangle; Dated 1997, Photorevised 1997
Horizontal Datum: NAD83, Vertical Datum: NGVD83
Latitude: 040° 59' 28"N, Longitude: 074° 5' 34"W

SITE LOCATION MAP

MATRIX NEW WORLD
Engineering Progress
Matrix New World Engineering, Land Surveying and Landscape Architecture, P.C.
26 Columbia Turnpike
Florham Park, New Jersey 07932
Certified WBE
Tel: 973-240-1800
Fax: 973-240-1818
www.mnwe.com

VILLAGE OF RIDGEWOOD
BLOCK 4704, LOTS 9, 10, 11, & 12
VILLAGE OF RIDGEWOOD
BERGEN COUNTY, NEW JERSEY

SCALE:	PROJECT NO.:	DATE:	FIGURE NO.:
1 : 2,000	23-1429	MARCH 2024	1

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LEGEND

- TCL SVOCs, TAL METALS, PESTICIDES & PCBs
- TCL SVOCs & TAL METALS
- TCL/TAL +30, EPH, HEXAVALENT CHROMIUM (CONTINGENT)

TCL	TARGET COMPOUND LIST
SVOCs	SEMI-VOLATILE ORGANIC COMPOUNDS
TAL	TARGET ANALYTE LIST
PCBs	POLYCHLORINATED BIPHENYLS
TCL/TAL +30	TARGET COMPOUND LIST/TARGET ANALYTE LIST PLUS 30 TENTATIVELY IDENTIFIED COMPOUNDS
EPH	EXTRACTABLE PETROLEUM HYDROCARBONS

NOTE:
DRAWING WAS COMPLETED USING THE "TOPOGRAPHIC SURVEY LOTS 9, 10, 11 & 12 BLOCK 4704 TAX MAP" DRAWING BY DUNN SURVEYING & MAPPING P.A., NOVEMBER 14, 2023 AND PROVIDED TO MATRIX BY THE CLIENT.

NEW JERSEY STATE AMBOY-NEWARK WAY GARDEN STATE PARKWAY ROUTE 17

WEST SADDLE RIVER ROAD

TERHUNE ROAD (50' WIDE)

KENWOOD ROAD (50' WIDE)

KINGSBRIDGE LANE (50' WIDE)

LOT 12 BLOCK 4704 TAX MAP

LOT 10 BLOCK 4704 TAX MAP

LOT 11 BLOCK 4704 TAX MAP

LOT 9 BLOCK 4704 TAX MAP

LOT 8 LANDS N/F GREGORIS

LOT 14 LANDS N/F HARAKIS

LOT 15 LANDS N/F HARCOCK

LOT 13 LANDS N/F DALESIO

296,221.2 SQ. FT.
6.800 ACRES
(EXCLUDING ROADS)

2 ½ STORY BUILDING #460

FORMER LOCATION OF IRON PIPE REMOVED BY ADJOINING PROPERTY OWNER

AREA OF GRANT TO AMERICAN TELEPHONE AND TELEGRAPH COMPANY OF NEW JERSEY FROM DIRECTORS OF WEST SADDLE RIVER ROAD TO BOROUGH OF WEST SADDLE RIVER ROAD (DEED BOOK 1687 PAGE 87)

MAP OF KINGSBRIDGE GRANT FILED IN THE BERGEN COUNTY CLERK'S OFFICE AS MAP NUMBER 1

MAP OF BROOKFIELD FILED IN THE BERGEN COUNTY CLERK'S OFFICE AS MAP NUMBER 2

MAP OF BROOKFIELD FILED IN THE BERGEN COUNTY CLERK'S OFFICE AS MAP NUMBER 3

MONUMENTS SET IN CURB N 709,349.838 E 581,480.276 NAD 83 U.S. SURVEY FEET

SCALE: 1" = 80'

DESIGNED BY: MED	REVIEWED BY: MF	RELEASED BY: MF

DATE

MATRIX NEW WORLD
Engineering Progress
Matrix New World Engineering, Land Surveying and Landscape Architecture, P.C.
26 Columbia Turnpike
Florham Park, New Jersey 07932
Tel: 973-240-1800
Fax: 973-240-1818
www.mnwe.com
NEW JERSEY CERTIFICATE OF AUTHORIZATION No. 24GA27982300

PROPOSED SOIL BORING LOCATIONS

VILLAGE OF RIDGEWOOD
BLOCK 4704, LOTS 9, 10, 11 & 12
WEST SADDLE RIVER ROAD
VILLAGE OF RIDGEWOOD
BERGEN COUNTY, NEW JERSEY

PROJECT NUMBER: 23-1429

SCALE: AS SHOWN

DATE: 3/20/2024

SHEET 2 OF

© MATRIXNEWORLD\F:\2023\23-1429 Village of Ridgewood\Drawings\Plot Sheets\Proposed Soil Boring Locations.dwg

APPENDIX A

NJDEP December 11, 2023 Correspondence

State of New Jersey

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Waste & UST Compliance & Enforcement
Bureau of Solid Waste Compliance & Enforcement
9 Ewing Street
P.O. Box 420, Mail-Code 09-01
Trenton, NJ 08625-0420
Tel.: (609) 292-6305 Fax: (609) 292-4539

SHAWN M. LATOURETTE
Commissioner

Sent via email to:
Keith Kazmark: kkazmark@ridgewoodnj.net
Christopher Rutishauser: crutishauser@ridgewoodnj.net

December 11, 2023

CERTIFIED MAIL – RRR
7022 3330 0001 3350 2709

RE: Ridgewood Village Historic Site at 460 West Saddle River Road
Issues with reported data associated with imported fill
EA ID#: U4347

Gentlemen:

The following evaluation of the analytical data reportedly associated with the soils imported to the referenced site reiterates information from Mr. Chris Rutishauser, Ridgewood Village's Director of Public Works/Village Engineer, followed by a response from NJDEP's Bureau of Solid Waste Compliance & Enforcement (BSWC&E). Further appropriate actions necessary to pursue closure of this solid waste case are also presented.

Ridgewood Explanation for South Broad Street Fill Source:
"I visited this site when the offer of the soil became available. I did not observe an[y] indications of contamination in the soils. The development that generated the material was reviewed by the Village's planning board, for which I am the licensed review engineer. The material required and received a Village of Ridgewood major soil moving permit (planning board approves the permit followed by Village Council approval of the permit). Testing was done on the material in 2018 by Peak Environmental. Peak estimated the quantity of soil at 8,000 cubic yards. Peak collected 14 samples for testing under a reduce[d] sample quantity due to justification. Peak did not note any impacts to the soils sampled. The first three pages of their report submitted explains their protocol and observations. We used this soil as the bulk of the material for the berm construction. The berm was constructed by the Village's Streets Division using several of the Village's rubber tire front end loaders."

BSWC&E Response for Ridgewood Dayton, LLC – 152 South Broad Street fill source:
The estimated 8,000 cubic yard soil source was indicated to be from excavations associated with the demolition of a building at a site that underwent remediation. No description of the remediation nor the potential of environmental impacts from the remediated discharge(s) to have impacted the soils taken to 460 Saddle River Road were discussed, yet the sampling and analyses protocol was reduced by relying on such data to reduce the analytical frequencies per cubic yard as compared to the NJDEP Guidance Document: "Fill Material Guidance for SRP Sites". Based on yet to be explained judgements, the analytical parameters were also further reduced. For example, for a volume of 8,000 cubic yards the aforementioned guidance document suggests that 21 samples be collected and analyzed unless information can be used to reduce such frequency to 14 samples to be analyzed. Yet, the consultant secured analyses from only 4 samples for polychlorinated biphenyls (PCBs, a.k.a. "Aroclors") and only 4 samples for pesticides while providing 14 samples for analyses for EPH, PAHs and Metals. While only 5 samples were analyzed for volatile organic compounds (VOC), field screening using a photoionization detector (PID) revealed no responses and therefore the BSWC&E does not disagree with the limitation of the VOC analyses. However, an explanation regarding the use of the reduced sampling frequencies and further reduction of analytes below those noted in NJDEP guidance has not been provided.

The Conformance/Non-Conformance Summary within the laboratory report submitted to the BSWC&E revealed that, while the instrumentation was operating correctly, sample matrix interference was observed which caused the surrogate recoveries of several of the metals analyzed via method 6010D and several of the semi-volatile organic compounds to produce analytical data which may be biased low.

Ridgewood Explanation for Bergen Community College Site fill source:
"Through a contact, Bergen Community reached out to the Village and inquired if we would like some fill soil. I examined the soils at the college. I did not observe any indication of contamination. On September 27, 2019 ANS Consultants collected 5-point grab samples and subjected them to laboratory analysis. Laboratory results indicated the soils were suitable for the intended use at the Schedler site. The Village received approximately 500 cubic yards of material from the college."

BSWC&E Response for Bergen County Community College fill source:
No discussion on the reason for the excavation at this site was provided. The volume of soil represented by the 5-point composite to one sample is reported at 500 cubic yards. Compositing of such sample, although not preferred, may be acceptable, depending upon the reason for the excavation. The cover letter to the tabulated data indicates that the Department (NJDEP) does not require the Mercury found at 0.615 ppm, which is over the Migration to Ground Water Standard of 0.1 ppm as noted in N.J.A.C. 7:26D, to be addressed unless there is cause to believe that its presence is due to a discharge. However, such policy is applicable only for background conditions or historical fill scenarios where the subject fill is proposed to remain in place and does not address the movement of such fill to another site without a requisite evaluation of the potential impacts of such fill material. That is, the property at 460 Saddle River Road was not undergoing a remediation approved by a Licensed Site Remediation Professional (LSRP) retained pursuant to N.J.A.C. 7:26C at the time the fill was imported. As such, fill was not integrated into a remedial process pursuant to the "Like on Like" – 75 percentile assessment as noted in N.J.A.C. 7:26E-5.2 nor was a site-specific Migration to Ground Water pathway soil remediation standard established pursuant to N.J.A.C. 7:26D. Accordingly, no information has been presented to justify bringing in contaminated fill to a site that may have been uncontaminated prior to the importation of the subject fill materials.

The area(s) at the 460 Saddle River Road site where these soils were distributed are currently unknown to the BSWC&E. Further, there was no laboratory report or Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be evaluated if limited to the information provided.

Ridgewood Explanation for 533 Wyndmere fill source:
"This location was a residential house that was constructing a large addition and reached out to us to see if we were interested in their surplus material. I examined the soil in the field. It was a fine to medium sand, trace silt and would be excellent grading fill for the Schedler project. The site's soil moving permit indicated approximately 280 cubic yards of cut and 40 cubic yards of fill. ANS Consultants collected one sample and subjected it to laboratory analysis on or about May 19, 2021. The results were acceptable for the intended use of the material."

BSWC&E Response for 533 Wyndmere fill source:
One sample from 320 cubic yards of soil and fill excavated from a residential home was analyzed for Target Analyte List and Target Compound List compounds for which the results did not indicate a concern.

The area(s) at the 460 Saddle River Road site where these soils were distributed are currently unknown to the BSWC&E.

There was no laboratory report or Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be evaluated if limited to the information provided.

Ridgewood Water DeBoer Avenue and Route 208 Water Main Installation:
"Trench spoil from this project was made available. On August 9, 2021 Aqua Pro-Tech Laboratories tested one grab sample. The soil was found to be acceptable for its intended use. The site provided approximately 200 cubic yards of fill. This is the one location I did not personally observe the material at its generating source."

BSWC&E Response for Ridgewood Water DeBoer Ave and Rt. 208 Water Main Installation:
It appears that one sample from a reported 200 cubic yard source was analyzed for volatile organic compounds, metals, PCBs and pesticides. No Chain of Custody was submitted. It is not known when the date of analysis was. There was no Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be completely evaluated if limited to the information provided.

However, a concern is noted for sample # 1080405-01 as it displayed a benzo[a]pyrene concentration of at least 0.48 parts per million (ppm) while the Residential Ingestion-Dermal pathway soil remediation standard for this compound is 0.51 ppm. Although the reported result is below the Residential Soil Remediation Standard that triggers the definition of solid waste, because this sample was diluted, presumably to rectify some matrix interference, the result is biased low.

This sample also displayed a mercury concentration of 0.105 ppm. N.J.A.C. 7:26D denotes a Migration to Ground Water pathway standard for Mercury of 0.1 ppm.

This sample also displayed a benzo[a]anthracene concentration of at least 2.60 ppm while N.J.A.C. 7:26D denotes a Migration to Ground Water pathway standard for this compound is 0.71 ppm.

Again, without LSRP interaction pursuant to N.J.A.C. 7:26 C, there was no evaluation of the appropriateness of bringing in contaminated fill to the 460 West Saddle River Road site.

The location(s) where this fill was distributed at 460 West Saddle River Road site has not been disclosed to the BSWC&E.

Ridgewood Explanation for Water Main Replacement Jefferson, William and Salem Streets fill source:
"The source of this material was the spoil from a water main replacement project in the following Village streets: Jefferson Street, William Street, and Salem Street. Work was done by a contractor working for Ridgewood Water Company. I observed the trenching work on several occasions. I did not note any contamination concerns. Three samples were collected, one from each street, and tested by Aqua Pro-tech Laboratories on or about September 22, 2020. Trench was approximately 4,100 linear feet, 2.5-feet wide and 4.5-feet deep for a volume of approximately 1,700 cubic yards of soil."

BSWC&E Response for Jefferson, William and Salem Streets fill source:
There was no Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be completely evaluated if limited to the information provided.

Ridgewood Explanation for the Ridgewood Water Company Spoil Pile:
"The Village's Water Company had excess soil from their water main break repairs. On January 12, 2021 SGS North America collected three grab soil samples for analysis. This testing was a follow up to testing Eurofins had done on December 22, 2016 of a single grab sample of soil. With the test results being acceptable for use, the Village trucked approximately 300 cubic yards of material from the spoil pile to Schedler. I observed this spoil pile before it was trucked and did not note any indications of contamination."

SWC&E Response for the Ridgewood Water Company Spoil Pile:
The 2016 sample results revealed detection limits that were higher than the remediation standards. For example, the sample analyzed for benzo[a]pyrene was diluted ten-fold yielding a detection limit of 0.94 ppm while the Residential Ingestion-Dermal pathway remediation standard for this compound is 0.51 ppm. Further, the laboratory Case Narrative disclosed surrogate recovery issues with several organic compounds and metals. The follow-up analyses reported for the subject materials revealed that benzo[a]anthracene was detected in sample S-15R at 0.75 ppm which is above the Migration to Ground Water Pathway soil remediation standard for this compound which is 0.71 ppm. Further, benzo[a]pyrene in this sample was reported at a concentration of 0.744 ppm while the Residential Ingestion-Dermal Pathway remediation standard for this compound is 0.51 ppm, thus triggering the definition of solid waste. Sample S-18R revealed similar elevated concentrations of benzo[a]anthracene of 0.873 ppm and 0.852 ppm respectively. BSWC&E's interpretation of the Case Narrative/Conformance Summary did not raise concerns regarding the accuracy of the compounds found at concentrations over the noted remediation standards.

No locations where the subject materials were deposited have been provided. Further, given the exceedance of the remediation standards, no explanation regarding the suitability of the subject material for the 460 West Saddle River Road site was provided.

REQUIRED FURTHER ACTIONS TO DOCUMENT FILL QUALITY:

Berm Along Route 17:

With respect to the soils used to construct the berm, the following actions are necessary to further evaluate the suitability of such materials for the site at 460 Saddle River Road:

1. Provide a detailed explanation describing how the previous analytical data collected for the remediation case that was the source of the fill along with the physical distances or barriers between the contaminated materials and the materials brought to the 460 West Saddle River Road site to justify employing a reduction in the analytical frequencies published in NJDEP guidance.

2. Assuming that, in the opinion of the BSWC&E, such explanation is acceptable, provide a Sampling and Analysis Plan (SAP) that incorporates the following scope of work: collect ten discrete grab (non-composited) samples from the soil berm at equally distributed aerial and vertical locations representing a full cross section of the berm. Using an NJDEP certified laboratory who are also certified by the NJDEP for the test methods employed, analyze each of these samples for those Pesticides and PCBs from the Target Compound List and in accordance with the test methods noted therein as defined in N.J.A.C. 7:26E-1.8. Further, for the data already submitted to the BSWC&E, perform a comprehensive review of the Conformance/Non-Conformance Summary to determine which samples displayed biased low results for metals and semi-volatile organic compounds and add such analytes to similarly equally spaced samples such that there will be at least 14 samples representing Target Analyte List metals and Target Compound List semi-volatile organics, each as defined and in accordance with the analytical procedures noted in N.J.A.C. 7:26E-1.8, for which reliable data is generated. Provide a detailed explanation on this review and analyte selection process. For the purposes of compliance with the solid waste issue, it is not necessary to perform analyses for Tentatively Identified Compounds.

   The SAP shall include a scaled site map noting the proposed sampling locations and analytical parameters. The plan should not be implemented until approved in writing by the BSWC&E.

Other Imported Fill Areas of Deposition:

With respect to the soils/fill deposited in other areas of the property at 460 West Saddle River Road, the BSWC&E has observed that such fill contains materials that, at least from a geotechnical consideration, may not be suitable base material for the artificial turf which the BSWC&E understands is being contemplated for this site. As such, should any of the fill deposited outside of the berm be removed from the property, appropriate characterization of same is needed to ensure that it's use, or disposal is consistent with NJDEP regulations. If any of this fill is contemplated to remain in place, without knowing the locations of the deposition of the various sources of the fill material and because the data for at least some of the fill material is suspect, the aforementioned SAP should be expanded to incorporate sampling of the remaining areas of imported fill deposition. Such expanded plan should incorporate a scaled site map depicting a grid pattern denoting where discrete (non-composited) samples will be collected for analyses for Target Analyte List and Target Compound List analytes as defined and in accordance with the analytical methods noted in N.J.A.C. 7:26E -1.8 (minus volatile organic analyses if appropriate soil gas screening confirms such analyses is not necessary). The expanded SAP should not be implemented until approved in writing by the BSWC&E.

Case Management:

In order to close the solid waste issue associated with the imported fill materials, any such fill that exceeds the Residential Ingestion-Dermal/Inhalation soil remediation standards (without performing data averaging) must be removed. Accordingly, following review of the data to be generated from the SAP, the BSWC&E will advise Ridgewood Village of the scope of work needed to incorporate into a Corrective Action Plan (CAP) designed to address any residual solid waste as determined by both the physical and chemical triggers noted in N.J.A.C. 7:26 -1.6(a)6. The CAP should not be conducted until approved in writing by the SWC&E.

Once the BSWC&E is satisfied that appropriate removal of the fill materials that trigger the definition of solid waste at N.J.A.C. 7:26-1.6(a)6 has been achieved, a letter will be issued noting that the subject solid waste issue has been resolved.

Please note that the BSWC&E does not offer opinions on whether or not a site has been remediated or if a site is suitable to allow leaving fill materials in place that do not trigger the definition of solid waste, but have a contaminant within them at a concentration greater than the respective default Migration to Ground Water soil remediation standard at N.J.A.C. 7:26D. Accordingly, if it is desired to pursue further evaluation of the suitability to leave such soils in place, alternative, site specific Migration to Ground Water pathway standards can be generated as afforded by N.J.A.C. 7:26D if approved by a Licensed Site Remediation Professional (LSRP) retained pursuant to the Administrative Requirements for the Remediation of Contaminated Sites as noted in N.J.A.C. 7:26C. Accordingly, Ridgewood Village may want to consider performing additional testing approved by such LSRP to address such pathway during the mobilization addressing the requisite sampling to further evaluate the solid waste issues.

Enforcement:

Please be advised that Ridgewood Village's documented use of contaminated fill at this site is in violation of the Solid Waste Management Act, particularly N.J.A.C. 7:26-2.8(e). As such, the BSWC&E expects full cooperation from Ridgewood Village at this time to facilitate the BSWC&E's discretionary authority to minimize any enforcement actions/penalty assessments. **As such, please provide the requisite Sampling and Analysis Plan within sixty (60) days upon receipt of this correspondence.**

Attached to this letter please find generic guidance from the BSWC&E addressing our expectations associated with data collection. Should you have any questions, please promptly contact me.

Regards,

Tom Farrell, Chief
Bureau of Solid Waste Compliance & Enforcement

c: Dave Ongaro, BSWC&E
Gina Lugo, BSWC&E
Mike Hastry, DW&USTC&E
Kate Marcopul, DEP – Historic Preservation Office
Keona Miller, DEP – Local Government Affairs

State of New Jersey

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE & UST COMPLIANCE and ENFORCEMENT
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SHAWN M. LATOURETTE
Commissioner

DATA REVIEW DOCUMENTATION FORM

 (last updated October 2023)

The following information should accompany analytical data submitted to the Bureau of Solid Waste Compliance and Enforcement (BSWC&E) for a determination that is limited to whether or not the materials represented by such data trigger the definition of solid waste pursuant to N.J.A.C. 7:26 - 1.6(a)6. BSWC&E's acknowledgement of such data shall not be construed to suggest that the New Jersey Department of Environmental Protection considers that the site represented by this data has been fully remediated in whole or in part. As this form is not designed for any one particular site, not all sections may be applicable.

☐ Current Name and Address of site:

_____

_____

☐ Specific Historical uses of property:

_____

_____

☐ Mapped on NJ GeoWeb as located in an area of Historical Fill? _____

☐ Have the subject materials been in contact with any construction and demolition debris or historical discharge of a hazardous substance or historical fill? _____

SAMPLE COLLECTION INFORMATION:

☐ Was the sampling conducted in conformance with the Technical Requirements for Site Remediation at N.J.A.C. 7:26E and the most recent version of the NJDEP Field Sampling Procedures Manual? _____. If no, please explain:

_____

_____.

☐ Was the sampling conducted to address a known volume of materials? _____ If so, what is the total volume of materials addressed by this project? _____ cubic yards.

☐ If the sampling addressed an area wherein the volume of potentially contaminated materials was not known, how many square feet is such Area of Concern? _____ square feet.

☐ **Only for sites where no VOCs are expected:** Were Target Compound List Volatile Organic Compounds (VOCs) eliminated from the analyses based on the response from a photoionization detector (PID)? _____

- If a PID was used, how, when and by whom was it calibrated (please include the type of calibration gas used)?

_____

_____

- What was the eV value of the bulb used in the PID? _____.
- At what units in parts per million (ppm) of response on the PID was the fill considered to not require analysis for VOCs?_____ .

Describe the process used to screen the materials with the PID. If screening was conducted within in situ materials, please include areal frequency in square feet and depths (from surface grade). If screening was conducted within stockpiled materials, please include the distances within the stockpile and frequency of screening per cubic yards.

_____

_____.

☐ If other information was used to eliminate volatile organics from the testing methods of the subject fill besides PID screening, please note same here:

Please complete the following table:

Analytical Group	**Analytical Frequency per cubic yard of stockpiled materials (if applicable)**	**Analytical Frequency per square foot of in situ materials in Area of Concern (if applicable)**	**Reason for Noted Analytical Frequency**
Target Analyte Metals			
Target Compound List Volatile Organic Compounds			
Target Compound List Semi- Volatile Organic Compounds			
Target Compound List Pesticides			
Target Compound List PCBs			

☐ Has a Sample Location Map been provided noting the sample identification numbers in a manner that one who had not seen the site could readily understand where the samples were collected?

☐ If there was any deviation from the Department's most recent version of the Guidance Documents: *Fill Materials Guidance for SRP Sites, October 2021* or *Understanding DEP's Requirements for Soil and Fill Materials*, please provide your justification for same here:

SAMPLE ANALYSIS INFORMATION:

☐ List the name and the New Jersey Laboratory Certification number(s) for the laboratory(ies) used:

_____.

☐ Were there any analyses conducted for which the laboratory did not have a specific New Jersey certification to perform same (note: In addition to the NJ Laboratory Certification, laboratories are required to hold a certification from NJDEP for each analytical method)?
If yes, please specify which test method and affected analytes was/were not certified by NJDEP: _____.

☐ Has the analyses been performed in accordance with N.J.A.C. 7:26E-2 and accompanied by the applicable Reduced Regulatory Deliverables pursuant to Attachment A-II of N.J.A.C. 7:26E? _____.

☐ Does each laboratory report contain a summary of the samples received noting any deficiencies with, at a minimum: temperature of the samples upon receipt, condition of the sample bottles, appropriate Chain of Custody documentation, compliance with sample holding times? If any such deficiencies were noted, please list them here:

_____

_____.

☐ Was a Conformance/Non-Conformance Summary included for each laboratory report? _____

☐ Did the Conformance/Non-Conformance Summary suggest data that could not be relied upon? _____. If yes, please specify which analytes for which samples were not usable:

_____

_____.

☐ Has any data averaging been employed in an Area of Concern to generate the conclusions drawn? _____If so, specify which Area of Concern employed data averaging and include the computations for same in the report of findings.

☐ Has the data been tabulated with comparison to NJDEP Remediation Standards at N.J.A.C. 7:26D? _____

Per my signature below, I certify that the information provided on this form is true and accurate to the best of my knowledge.

Print name of person completing this form: _____;sign:_____;date:_____

State of New Jersey

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
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SHAWN M. LATOURRETE
Commissioner

STANDARD SAMPLING and ANALYSES PLAN APPROVAL

Project Name:
NJEMS PI#:
Date of S&AP:

The following document contains standard conditions and limitations that accompany any communication from the Bureau of Solid Waste Compliance and Enforcement (BSWC&E) which indicate approvals of Sampling and Analysis Plans. Unless otherwise appended to or altered by official written correspondence from the BSWC&E, these conditions and limitations shall apply.

1.) This approval is limited to determine whether or not the soil/fill materials being sampled meet the portion of the definition of solid waste that addresses contaminant concentrations as referred to in N.J.A.C. 7:26-1.6(a)6. As such, analytical results from **any one** sample that indicate concentrations of contaminants that are above the Residential Ingestion-Dermal or Residential Inhalation soil remediation standards at N.J.A.C. 7:26 D are indicative of solid waste. While delineation of such contamination is acceptable with a plan approved by BSWC&E, **no compliance averaging** is accepted.

2.) The BSWC&E does not make determinations regarding whether or not soils or materials can be considered as Clean Fill pursuant to N.J.A.C. 7:26E -1.8. As such, upon receipt of acceptable data that indicates contaminant concentrations that are compliant with the definition of solid waste at N.J.A.C. 7:29-1.6(a)6, the BSWC&E will acknowledge same by noting compliance has been achieved with respect to the particular solid waste violation associated with the quality of the soil/fill materials. The BSWC&E does not make determinations regarding whether or not a site has been remediated.

3.) All sampling must be performed in accordance with the latest version of the NJDEP's Field Sampling Procedures Manual and N.J.A.C. 7:26 E – The Technical Requirements for Site Remediation.

4.) All analyses must be performed by a laboratory that has at least the following two certifications:

   a.) Overall Laboratory Certification from the State of New Jersey; and, (b) Certification from the State of New Jersey for the particular test method being employed.

Project Name:
NJEMS PI#:
Date of S&AP:

5). Any proposed analytes shall incorporate the test methods associated with EPA's Contract Laboratory Program (CLP) and shall be those analytes included in the respective Target Analyte List (TAL) or Target Compound List (TCL) of the CLP. For example, any proposal to analyze for "Metals" shall be inclusive of all metals in the TAL. It is not necessary to include Tentatively Identified Compounds (TICs) when analyzing for TCL compounds. BSWC&E does not interpret Extractable Petroleum Hydrocarbon (EPH) data.

6.) The Quality Assurance Plans shall incorporate quality control provisions and report same that are at least as comprehensive as the Reduced Regulatory Deliverables pursuant to Attachment A-II of N.J.A.C. 7:26 E. The locations of the Laboratory Non-Conformance Summary, Sample Receipt Form and Chain of Custody shall be readily identified in the laboratory report.

7.) To expedite the BSWC&E's data review, in addition to the full scale laboratory report, a separate table shall be submitted which compares the data to the Residential Ingestion-Dermal and Residential Inhalation soil remediation standards at N.J.A.C. 7:26D. In order to facilitate the BSWC&E determination on whether or not the site needs to be referred to the Department's Site Remediation Program, the data should also be compared to the default Migration to Ground Water pathway soil remediation standards at N.J.A.C. 7:26D. Any comparison to a site specific Migration to Ground Water pathway soil remediation standard would not be performed by the BSWC&E. Further, if the site is located in a wetlands or other area of ecological significance, the analytical results should also be compared to the Ecological Screening Criteria.

Place an "X" or appropriate number next to the applicable statement(s):

8.) The proposed sampling frequency is: ____ acceptable as proposed; _____ needs to be increased to one sample per ____ cubic yards (for sampling the subject fill) or, one sample per ___ square feet (for post-excavation analyses).

9.) The proposed analytes are: ____ acceptable as proposed; ____ needs to include all of the TAL metals; _____ needs to include all of the TCL semi-volatile organics; ___ needs to include all of the TCL pesticides; ____needs to include all of the TCL PCBs; ___ needs to include all of the TCL VOCs.

10.) The proposed field screening for volatile organic compounds (VOCs): ____ is acceptable as proposed; _____must perform field screening with the stated instrument at intervals of ___ cubic yards or ____ square feet (if post excavation sampling); ____ must provide documentation of proper calibration; ___ if a photoionization detector is to be used, must specify the electron voltage of the bulb used.

Plan Approved By: _____
on _____

APPENDIX B

152 SOUTH BROAD STREET ANALYTICAL DATA

PEAK ENVIRONMENTAL LLC
26 Kennedy Boulevard, Suite A, East Brunswick, NJ 08816
Phone 732-326-1010 ● www.peak-environmental.com

October 18, 2018

Mr. Scott Loventhal
Ridgewood Dayton, LLC
820 Morris Turnpike, Suite 101
Short Hills, NJ 07078

Via Email to scottl@gardenhomes.com

Re: Stockpiled Soil Characterization Results
152 South Broad Street
Ridgewood, New Jersey
Project No. 1594:602

Dear Mr. Loventhal:

The following letter report presents the results of soil characterization sampling and analysis conducted by Peak Environmental LLC (Peak) related to the 152 South Broad Street site (Site) on behalf of Ridgewood Dayton, LLC.

PROJECT BACKGROUND

It is Peak's understanding that, following the completion of the remedial excavation and off-site disposal of the known areas of environmental concern (AOCs), redevelopment related excavations of soils encountered at deeper depths at the Site resulted in the generation of approximately 8,000 cubic yards (cys) of excess soil. Peak understands that the client needs analytical data to provide to prospective recipients of the soil so that it can be used as fill material at an offsite property.

Soil Characterization Sampling

Review of the New Jersey Department of Environmental Protection (NJDEP) Fill Material Guidance Document for 8,000 cubic yards of material calls for the collection of 21 samples by default, or 14 samples using a reduced sampling scheme with justification. As this property is in the NJDEP Site Remediation Program, and a Preliminary Assessment, Site Investigation, Remedial Investigation, and Remedial Actions have already been completed at the Site under the direction and oversight of a Licensed Site Remediation Professional (LSRP), Peak conducted the characterization sampling using the reduced sampling frequency as the history of the property is known.

On October 10, 2018, Peak arrived on site and noted that the 8,000 cys of material was comprised of two separate stockpiles, one at the north side of the property (estimated to be 4,500 cys) and one along the south side of the property (estimated to be 3,500 cys). The stockpiles consisted of soils excavated from each respective general area, and the northern pile included soils excavated from below the former building. Peak conducted the characterization sampling by directing your operator to excavate test pits at representative locations within the soil piles using a track mounted excavator. The test pit locations were offset to split each of the two stockpiles into roughly seven equal sections and were advanced throughout the vertical extent of the piles which extended up to 13' high.

Specifically, a total of seven test pits (identified as NTP-1 through NTP-7) were advanced within the northern soil pile and seven test pits (identified as STP-1 through STP-7) were advanced within the southern soil pile. The soils at each test pit location were screened in the field for Volatile Organic Compounds (VOCs) using a calibrated photoionization detector (PID), and visually inspected for texture and physical evidence of contaminants and/or historic fill. There were no PID responses within any of the test pit locations and no evidence of subsurface extraneous debris and/or solid waste, or historic fill material. No obvious visual or olfactory evidence of contamination was noted. The stockpiled soils were generally homogenous and consisted of brown coarse and medium sand with various amounts of fine gravel.

As there were no indications of impacts noted, the sample locations were selected randomly. As the Site was formerly used as an automotive dealership and the remediated AOCs included historic fill, the lab analysis included: Extractable Petroleum Hydrocarbons (EPH) on all 14 samples; TAL Metals and Polynuclear Aromatic Hydrocarbons (PAHs) on ten samples; Volatile Organic Compounds (VOCs) on five samples; and the full Target Compound List/Target Analyte List (TCL/TAL+30) analysis on four samples. The samples collected are summarized in the following table:

Field ID	Location	Sample Depth (ft. from top of pile)	Analytical Parameters
NTP-1A	Northern Soil Pile	1.5-2	EPH Cat-2, TCL/TAL+30
NTP-2A	Northern Soil Pile	0.5-1	EPH Cat-2, PAHs, Metals, VOCs
NTP-2B	Northern Soil Pile	4.5-5	EPH Cat-2, PAHs, Metals
NTP-3B	Northern Soil Pile	4-4.5	EPH Cat-2, PAHs, Metals
NTP-4B	Northern Soil Pile	4.5-5	EPH Cat-2, PAHs, Metals
NTP-6	Northern Soil Pile	4-4.5	EPH Cat-2, TCL/TAL+30
NTP-7	Northern Soil Pile	0-0.5	EPH Cat-2, PAHs, Metals, VOCs
STP-1B	Southern Soil Pile	3.5-4	EPH Cat-2, PAHs, Metals, VOCs
STP-2B	Southern Soil Pile	3.5-4	EPH Cat-2, PAHs, Metals
STP-3B	Southern Soil Pile	4-4.5	EPH Cat-2, PAHs, Metals
STP-4A	Southern Soil Pile	4-4.5	EPH Cat-2, PAHs, Metals, VOCs
STP-4B	Southern Soil Pile	1.5-2	EPH Cat-2, TCL/TAL+30
STP-5	Southern Soil Pile	3-3.5	EPH Cat-2, PAHs, Metals
STP-7	Southern Soil Pile	2-2.5	EPH Cat-2, TCL/TAL+30

Results and Conclusions

The results of analysis, as presented on Tables 1, 2, and 3, did not indicate the presence of any target compounds above an applicable NJDEP Soil Remediation Standard. Exceedances of the NJDEP Default Impact to Groundwater Soil Screening Levels (IGWSSLs) were identified for Aluminum and Manganese; however, based on the NJDEP Guidance Document Frequently Asked Questions for the Impact to Ground Water Pathway in Soil Remediation Standards Version 1.0, 1/27/2011 (see below), no further action is necessary for these naturally occurring earth metals. The complete NJ Reduced Lab Report is included as **Attachment I**.

> *"Soil standards, by law, must be based on health considerations. The health based GWQS are used as the endpoint from which to back-calculate the IGWSRS. The GWQS Aluminum, Manganese, Silver and Zinc are secondary, that is they are not based on health considerations, but primarily on aesthetic considerations such as taste, odor and appearance. Additionally, these elements may be found as background contaminants. Therefore, the Department has decided that the IGW pathway does not need to be addressed for these contaminants unless there is cause to believe that their presence is due to a site discharge."*

Based on our field observations and the results of analysis, the soil piles defined in this report meet the NJDEP Soil Remediation Standards and are suitable for use as clean fill. They have been shown to be uncontaminated pursuant to any applicable remediation standard and are free of contamination due to extraneous debris or solid waste. This report may be referenced as documentation of the quality of the fill. We recommend that when transporting this material from the site to its final destination, that bills of lading are used (and retained) to document the transfer of this soil to its final destination.

We appreciate the opportunity to provide you with professional services, and trust the foregoing information is suitable to meet your needs. We remain available to discuss any aspect of this project.

Sincerely,
Peak Environmental LLC

Robert M. Edgar, Partner

Joseph Romeo
Senior Project Manager

enc: Tables 1, 2, and 3
Attachment I - Laboratory Reduced Data Deliverables

Table 1. Soil Analytical Data Summary
Volatile Organic Compounds

Area of Concern					8100452-01				8100452-02				8100452-05				8100452-06				8100452-07				8100452-08				8100452-11			
Sample Identifier					NTP-1A				NTP-2A				NTP-4B				NTP-6				NTP-7				STP-1B				STP-4A			
Laboratory Identifier																																
Sample Date	CAS Number	NJDEP Residential Direct Contact SRS[1]	NJDEP Nonresidential Direct Contact SRS[2]	NJDEP Default Impact to Ground Water SSL[3]	10/10/2018				10/10/2018				10/10/2018				10/10/2018				10/10/2018				10/10/2018				10/10/2018			
Volatile Organics - GC/MS (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
1,1,1-Trichloroethane	71-55-6	160,000	NS	0.3	0.000178	U	0.000178	0.001220	0.000128	U	0.000128	0.000879	0.000139	U	0.000139	0.000954	0.000166	U	0.000166	0.001140	0.000155	U	0.000155	0.001060	0.000397	U	0.000397	0.002720	0.000109	U	0.000109	0.000746
1,1,2,2-Tetrachloroethane	79-34-5	1	3	0.007	0.000169	U	0.000169	0.001220	0.000121	U	0.000121	0.000879	0.000132	U	0.000132	0.000954	0.000157	U	0.000157	0.001140	0.000147	U	0.000147	0.001060	0.000376	U	0.000376	0.002720	0.000103	U	0.000103	0.000746
1,1,2-Trichloro-1,2,2 Trifluoroethane	76-13-1	NS	NS	NS	0.000523	U	0.000523	0.001220	0.000376	U	0.000376	0.000879	0.000408	U	0.000408	0.000954	0.000488	U	0.000488	0.001140	0.000455	U	0.000455	0.001060	0.001170	U	0.001170	0.002720	0.000319	U	0.000319	0.000746
1,1,2-Trichloroethane	79-00-5	2	6	0.02	0.000206	U	0.000206	0.001220	0.000148	U	0.000148	0.000879	0.000161	U	0.000161	0.000954	0.000192	U	0.000192	0.001140	0.000179	U	0.000179	0.001060	0.000459	U	0.000459	0.002720	0.000126	U	0.000126	0.000746
1,1-Dichloroethane	75-34-3	8	24	0.2	0.000178	U	0.000178	0.001220	0.000128	U	0.000128	0.000879	0.000139	U	0.000139	0.000954	0.000166	U	0.000166	0.001140	0.000155	U	0.000155	0.001060	0.000397	U	0.000397	0.002720	0.000109	U	0.000109	0.000746
1,1-Dichloroethene	75-35-4	11	150	0.008	0.000226	U	0.000226	0.001220	0.000163	U	0.000163	0.000879	0.000176	U	0.000176	0.000954	0.000211	U	0.000211	0.001140	0.000197	U	0.000197	0.001060	0.000504	U	0.000504	0.002720	0.000138	U	0.000138	0.000746
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	0.000264	U	0.000264	0.001220	0.000190	U	0.000190	0.000879	0.000206	U	0.000206	0.000954	0.000246	U	0.000246	0.001140	0.000230	U	0.000230	0.001060	0.000588	U	0.000588	0.002720	0.000161	U	0.000161	0.000746
1,2,4-Trichlorobenzene	120-82-1	73	820	0.7	0.000326	U	0.000326	0.001220	0.000234	U	0.000234	0.000879	0.000254	U	0.000254	0.000954	0.000304	U	0.000304	0.001140	0.000283	U	0.000283	0.001060	0.000726	U	0.000726	0.002720	0.000199	U	0.000199	0.000746
1,2,4-Trimethylbenzene	95-63-6	NS	NS	NS	0.000169	U	0.000169	0.001220	0.000121	U	0.000121	0.000879	0.000132	U	0.000132	0.000954	0.000157	U	0.000157	0.001140	0.000147	U	0.000147	0.001060	0.000376	U	0.000376	0.002720	0.000103	U	0.000103	0.000746
1,2-Dibromo-3-chloropropane	96-12-8	0.08	0.20	0.005	0.000298	U	0.000298	0.001220	0.000214	U	0.000214	0.000879	0.000233	U	0.000233	0.000954	0.000278	U	0.000278	0.001140	0.000259	U	0.000259	0.001060	0.000664	U	0.000664	0.002720	0.000182	U	0.000182	0.000746
1,2-Dibromoethane	106-93-4	0.008	0.04	0.005	0.000154	U	0.000154	0.001220	0.000111	U	0.000111	0.000879	0.000120	U	0.000120	0.000954	0.000144	U	0.000144	0.001140	0.000134	U	0.000134	0.001060	0.000343	U	0.000343	0.002720	0.000094	U	0.000094	0.000746
1,2-Dichlorobenzene	95-50-1	5,300	59,000	17	0.000216	U	0.000216	0.001220	0.000155	U	0.000155	0.000879	0.000168	U	0.000168	0.000954	0.000201	U	0.000201	0.001140	0.000188	U	0.000188	0.001060	0.000481	U	0.000481	0.002720	0.000132	U	0.000132	0.000746
1,2-Dichloroethane	107-06-2	0.9	3	0.005	0.000172	U	0.000172	0.001220	0.000124	U	0.000124	0.000879	0.000134	U	0.000134	0.000954	0.000161	U	0.000161	0.001140	0.000150	U	0.000150	0.001060	0.000384	U	0.000384	0.002720	0.000105	U	0.000105	0.000746
1,2-Dichloropropane	78-87-5	2	5	0.005	0.000200	U	0.000200	0.001220	0.000144	U	0.000144	0.000879	0.000156	U	0.000156	0.000954	0.000187	U	0.000187	0.001140	0.000174	U	0.000174	0.001060	0.000446	U	0.000446	0.002720	0.000122	U	0.000122	0.000746
1,3-Dichlorobenzene	541-73-1	5,300	59,000	19	0.000090	U	0.000090	0.001220	0.000065	U	0.000065	0.000879	0.000070	U	0.000070	0.000954	0.000084	U	0.000084	0.001140	0.000078	U	0.000078	0.001060	0.000200	U	0.000200	0.002720	0.000055	U	0.000055	0.000746
1,4-Dichlorobenzene	106-46-7	5	13	2	0.000176	U	0.000176	0.001220	0.000127	U	0.000127	0.000879	0.000137	U	0.000137	0.000954	0.000164	U	0.000164	0.001140	0.000153	U	0.000153	0.001060	0.000392	U	0.000392	0.002720	0.000107	U	0.000107	0.000746
2-Butanone	78-93-3	3,100	44,000	0.9	0.000199	U	0.000199	0.003060	0.000143	U	0.000143	0.002200	0.000155	U	0.000155	0.002380	0.000186	U	0.000186	0.002850	0.000173	U	0.000173	0.002660	0.000444	U	0.000444	0.006810	0.000122	U	0.000122	0.001860
2-Hexanone	591-78-6	NS	NS	NS	0.000114	U	0.000114	0.001220	0.000082	U	0.000082	0.000879	0.000089	U	0.000089	0.000954	0.000107	U	0.000107	0.001140	0.000099	U	0.000099	0.001060	0.000255	U	0.000255	0.002720	0.000070	U	0.000070	0.000746
4-Methyl-2-pentanone	108-10-1	NS	NS	NS	0.000153	U	0.000153	0.001220	0.000110	U	0.000110	0.000879	0.000119	U	0.000119	0.000954	0.000143	U	0.000143	0.001140	0.000133	U	0.000133	0.001060	0.000340	U	0.000340	0.002720	0.000093	U	0.000093	0.000746
Acetone	67-64-1	70,000	NS	19	0.000370	U	0.000370	0.003060	0.000266	U	0.000266	0.002200	0.000289	U	0.000289	0.002380	0.000345	U	0.000345	0.002850	0.000322	U	0.000322	0.002660	0.000825	U	0.000825	0.006810	0.000226	U	0.000226	0.001860
Benzene	71-43-2	2	5	0.005	0.000111	U	0.000111	0.001220	0.000080	U	0.000080	0.000879	0.000087	U	0.000087	0.000954	0.000104	U	0.000104	0.001140	0.000097	U	0.000097	0.001060	0.000248	U	0.000248	0.002720	0.000068	U	0.000068	0.000746
Bromochloromethane	74-97-5	NS	NS	NS	0.000226	U	0.000226	0.001220	0.000162	U	0.000162	0.000879	0.000176	U	0.000176	0.000954	0.000210	U	0.000210	0.001140	0.000196	U	0.000196	0.001060	0.000502	U	0.000502	0.002720	0.000138	U	0.000138	0.000746
Bromodichloromethane	75-27-4	1	3	0.005	0.000153	U	0.000153	0.001220	0.000110	U	0.000110	0.000879	0.000120	U	0.000120	0.000954	0.000143	U	0.000143	0.001140	0.000133	U	0.000133	0.001060	0.000342	U	0.000342	0.002720	0.000094	U	0.000094	0.000746
Bromoform	75-25-2	81	280	0.03	0.000215	U	0.000215	0.001220	0.000154	U	0.000154	0.000879	0.000167	U	0.000167	0.000954	0.000200	U	0.000200	0.001140	0.000187	U	0.000187	0.001060	0.000478	U	0.000478	0.002720	0.000131	U	0.000131	0.000746
Bromomethane	74-83-9	25	59	0.04	0.000353	U	0.000353	0.001220	0.000253	U	0.000253	0.000879	0.000275	U	0.000275	0.000954	0.000329	U	0.000329	0.001140	0.000307	U	0.000307	0.001060	0.000785	U	0.000785	0.002720	0.000215	U	0.000215	0.000746
Carbon disulfide	75-15-0	7,800	110,000	6	0.000175	U	0.000175	0.001220	0.000126	U	0.000126	0.000879	0.000137	U	0.000137	0.000954	0.000164	U	0.000164	0.001140	0.000153	U	0.000153	0.001060	0.000391	U	0.000391	0.002720	0.000107	U	0.000107	0.000746
Carbon Tetrachloride	56-23-5	2	4	0.005	0.000184	U	0.000184	0.001220	0.000132	U	0.000132	0.000879	0.000144	U	0.000144	0.000954	0.000172	U	0.000172	0.001140	0.000160	U	0.000160	0.001060	0.000410	U	0.000410	0.002720	0.000112	U	0.000112	0.000746
Chlorobenzene	108-90-7	510	7,400	0.6	0.000177	U	0.000177	0.001220	0.000127	U	0.000127	0.000879	0.000138	U	0.000138	0.000954	0.000165	U	0.000165	0.001140	0.000154	U	0.000154	0.001060	0.000395	U	0.000395	0.002720	0.000108	U	0.000108	0.000746
Chlorodibromomethane	124-48-1	3	8	0.005	0.000150	U	0.000150	0.001220	0.000108	U	0.000108	0.000879	0.000117	U	0.000117	0.000954	0.000140	U	0.000140	0.001140	0.000131	U	0.000131	0.001060	0.000335	U	0.000335	0.002720	0.000092	U	0.000092	0.000746
Chloroethane	75-00-3	220	1,100	NS	0.000208	U	0.000208	0.001220	0.000150	U	0.000150	0.000879	0.000163	U	0.000163	0.000954	0.000194	U	0.000194	0.001140	0.000181	U	0.000181	0.001060	0.000464	U	0.000464	0.002720	0.000127	U	0.000127	0.000746
Chloroform	67-66-3	0.6	2	0.4	0.000205	U	0.000205	0.001220	0.000148	U	0.000148	0.000879	0.000160	U	0.000160	0.000954	0.000192	U	0.000192	0.001140	0.000179	U	0.000179	0.001060	0.000457	U	0.000457	0.002720	0.000125	U	0.000125	0.000746
Chloromethane	74-87-3	4	12	NS	0.000471	U	0.000471	0.001220	0.000338	U	0.000338	0.000879	0.000367	U	0.000367	0.000954	0.000439	U	0.000439	0.001140	0.000409	U	0.000409	0.001060	0.001050	U	0.001050	0.002720	0.000287	U	0.000287	0.000746
cis-1,2-Dichloroethene	156-59-2	230	560	0.3	0.000059	U	0.000059	0.001220	0.000043	U	0.000043	0.000879	0.000046	U	0.000046	0.000954	0.000055	U	0.000055	0.001140	0.000051	U	0.000051	0.001060	0.000132	U	0.000132	0.002720	0.000036	U	0.000036	0.000746
cis-1,3-Dichloropropene	10061-01-5	2	7	0.005	0.000155	U	0.000155	0.001220	0.000111	U	0.000111	0.000879	0.000121	U	0.000121	0.000954	0.000144	U	0.000144	0.001140	0.000134	U	0.000134	0.001060	0.000344	U	0.000344	0.002720	0.000094	U	0.000094	0.000746
Cyclohexane	110-82-7	NS	NS	NS	0.000271	U	0.000271	0.001220	0.000195	U	0.000195	0.000879	0.000211	U	0.000211	0.000954	0.000253	U	0.000253	0.001140	0.000235	U	0.000235	0.001060	0.000603	U	0.000603	0.002720	0.000165	U	0.000165	0.000746
Dichlorodifluoromethane	75-71-8	490	230,000	39	0.000413	U	0.000413	0.001220	0.000297	U	0.000297	0.000879	0.000322	U	0.000322	0.000954	0.000385	U	0.000385	0.001140	0.000359	U	0.000359	0.001060	0.000919	U	0.000919	0.002720	0.000252	U	0.000252	0.000746
EthylBenzene	100-41-4	7,800	110,000	13	0.000166	U	0.000166	0.001220	0.000119	U	0.000119	0.000879	0.000129	U	0.000129	0.000954	0.000154	U	0.000154	0.001140	0.000144	U	0.000144	0.001060	0.000369	U	0.000369	0.002720	0.000101	U	0.000101	0.000746
Isopropylbenzene	98-82-8	NS	NS	NS	0.000192	U	0.000192	0.001220	0.000138	U	0.000138	0.000879	0.000150	U	0.000150	0.000954	0.000179	U	0.000179	0.001140	0.000167	U	0.000167	0.001060	0.000427	U	0.000427	0.002720	0.000117	U	0.000117	0.000746
m+p-Xylenes	179601-23-1	12,000	170,000	19	0.000309	U	0.000309	0.002440	0.000222	U	0.000222	0.001760	0.000241	U	0.000241	0.001910	0.000288	U	0.000288	0.002280	0.000268	U	0.000268	0.002130	0.000687	U	0.000687	0.005440	0.000188	U	0.000188	0.001490
Methyl Acetate	79-20-9	78,000	NS	22	0.000162	U	0.000162	0.001220	0.000116	U	0.000116	0.000879	0.000126	U	0.000126	0.000954	0.000151	U	0.000151	0.001140	0.000141	U	0.000141	0.001060	0.000361	U	0.000361	0.002720	0.000099	U	0.000099	0.000746
Methyl tert-Butyl Ether	1634-04-4	110	320	0.2	0.000207	U	0.000207	0.001220	0.000148	U	0.000148	0.000879	0.000161	U	0.000161	0.000954	0.000193	U	0.000193	0.001140	0.000180	U	0.000180	0.001060	0.000460	U	0.000460	0.002720	0.000126	U	0.000126	0.000746
Methylcyclohexane	108-87-2	NS	NS	NS	0.000197	U	0.000197	0.001220	0.000141	U	0.000141	0.000879	0.000154	U	0.000154	0.000954	0.000184	U	0.000184	0.001140	0.000171	U	0.000171	0.001060	0.000438	U	0.000438	0.002720	0.000120	U	0.000120	0.000746
Methylene Chloride	75-09-2	46	230	0.01	0.000367	U	0.000367	0.001220	0.000264	U	0.000264	0.000879	0.000287	U	0.000287	0.000954	0.000343	U	0.000343	0.001140	0.000319	U	0.000319	0.001060	0.000818	U	0.000818	0.002720	0.000224	U	0.000224	0.000746
o-Xylene	95-47-6	12,000	170,000	19	0.000157	U	0.000157	0.001220	0.000113	U	0.000113	0.000879	0.000123	U	0.000123	0.000954	0.000147	U	0.000147	0.001140	0.000137	U	0.000137	0.001060	0.000350	U	0.000350	0.002720	0.000096	U	0.000096	0.000746
Styrene	100-42-5	90	260	3	0.000175	U	0.000175	0.001220	0.000126	U	0.000126	0.000879	0.000136	U	0.000136	0.000954	0.000163	U	0.000163	0.001140	0.000152	U	0.000152	0.001060	0.000389	U	0.000389	0.002720	0.000107	U	0.000107	0.000746
tert-Butyl alcohol	75-65-0	1,400	11,000	0.3	0.002570	U	0.002570	0.012200	0.001840	U	0.001840	0.008790	0.002000	U	0.002000	0.009540	0.002390	U	0.002390	0.011400	0.002230	U	0.002230	0.010600	0.005720	U	0.005720	0.027200	0.001570	U	0.001570	0.007460
Tetrachloroethene	127-18-4	43	1,500	0.005	0.00329		0.000121	0.001220	0.00240		0.000087	0.000879	0.000094	U	0.000094	0.000954	0.000113	U	0.000113	0.001140	0.000105	U	0.000105	0.001060	0.000270	U	0.000270	0.002720	0.000074	U	0.000074	0.000746
Toluene	108-88-3	6,300	91,000	7	0.000098	U	0.000098	0.001220	0.000071	U	0.000071	0.000879	0.000077	U	0.000077	0.000954	0.000092	U	0.000092	0.001140	0.000086	U	0.000086	0.001060	0.000219	U	0.000219	0.002720	0.000060	U	0.000060	0.000746
Total Xylenes	1330-20-7	12,000	170,000	19	0.000157	U	0.000157	0.001220	0.000113	U	0.000113	0.000879	0.000123	U	0.000123	0.000954	0.000147	U	0.000147	0.001140	0.000137	U	0.000137	0.001060	0.000350	U	0.000350	0.002720	0.000096	U	0.000096	0.000746
trans-1,2-Dichloroethene	156-60-5	300	720	0.6	0.000166	U	0.000166	0.001220	0.000119	U	0.000119	0.000879	0.000129	U	0.000129	0.000954	0.000154	U	0.000154	0.001140	0.000144	U	0.000144	0.001060	0.000369	U	0.000369	0.002720	0.000101	U	0.000101	0.000746
trans-1,3-Dichloropropene	10061-02-6	2	7	0.005	0.000233	U	0.000233	0.001220	0.000168	U	0.000168	0.000879	0.000182	U	0.000182	0.000954	0.000218	U	0.000218	0.001140	0.000203	U	0.000203	0.001060	0.000520	U	0.000520	0.002720	0.000142	U	0.000142	0.000746
Trichloroethene	79-01-6	3	10	0.01	0.000180	U	0.000180	0.001220	0.000129	U	0.000129	0.000879	0.000140	U	0.000140	0.000954	0.000168	U	0.000168	0.001140	0.000156	U	0.000156	0.001060	0.000400	U	0.000400	0.002720	0.000110	U	0.000110	0.000746
Trichlorofluoromethane	75-69-4	23,000	340,000	34	0.000141	U	0.000141	0.001220	0.000101	U	0.000101	0.000879	0.000110	U	0.000110	0.000954	0.000131	U	0.000131	0.001140	0.000122	U	0.000122	0.001060	0.000313	U	0.000313	0.002720	0.000086	U	0.000086	0.000746
Vinyl chloride	75-01-4	0.7	2	0.005	0.000232	U	0.000232	0.001220	0.000167	U	0.000167	0.000879	0.000181	U	0.000181	0.000954	0.000217	U	0.000217	0.001140	0.000202	U	0.000202	0.001060	0.000517	U	0.000517	0.002720	0.000142	U	0.000142	0.000746
Tentatively Identified Compounds		NS	NS	NS	0	J			0	J			0	J			0	J			0	J			0	J			0	J		

Table 1. Soil Analytical Data Summary
Volatile Organic Compounds

Area of Concern **Sample Identifier** **Laboratory Identifier** **Sample Date**	CAS Number	NJDEP Residential Direct Contact SRS[1]	NJDEP Nonresidential Direct Contact SRS[2]	NJDEP Default Impact to Ground Water SSL[3]	8100452-12 STP-4B 10/10/2018				8100452-14 STP-7 10/10/2018			
Volatile Organics - GC/MS (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
1,1,1-Trichloroethane	71-55-6	160,000	NS	0.3	0.000129	U	0.000129	0.000887	0.000133	U	0.000133	0.000912
1,1,2,2-Tetrachloroethane	79-34-5	1	3	0.007	0.000122	U	0.000122	0.000887	0.000126	U	0.000126	0.000912
1,1,2-Trichloro-1,2,2 Trifluoroethane	76-13-1	NS	NS	NS	0.000379	U	0.000379	0.000887	0.000390	U	0.000390	0.000912
1,1,2-Trichloroethane	79-00-5	2	6	0.02	0.000149	U	0.000149	0.000887	0.000154	U	0.000154	0.000912
1,1-Dichloroethane	75-34-3	8	24	0.2	0.000129	U	0.000129	0.000887	0.000133	U	0.000133	0.000912
1,1-Dichloroethene	75-35-4	11	150	0.008	0.000164	U	0.000164	0.000887	0.000169	U	0.000169	0.000912
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	0.000192	U	0.000192	0.000887	0.000197	U	0.000197	0.000912
1,2,4-Trichlorobenzene	120-82-1	73	820	0.7	0.000236	U	0.000236	0.000887	0.000243	U	0.000243	0.000912
1,2,4-Trimethylbenzene	95-63-6	NS	NS	NS	0.000122	U	0.000122	0.000887	0.000126	U	0.000126	0.000912
1,2-Dibromo-3-chloropropane	96-12-8	0.08	0.20	0.005	0.000216	U	0.000216	0.000887	0.000222	U	0.000222	0.000912
1,2-Dibromoethane	106-93-4	0.008	0.04	0.005	0.000112	U	0.000112	0.000887	0.000115	U	0.000115	0.000912
1,2-Dichlorobenzene	95-50-1	5,300	59,000	17	0.000156	U	0.000156	0.000887	0.000161	U	0.000161	0.000912
1,2-Dichloroethane	107-06-2	0.9	3	0.005	0.000125	U	0.000125	0.000887	0.000129	U	0.000129	0.000912
1,2-Dichloropropane	78-87-5	2	5	0.005	0.000145	U	0.000145	0.000887	0.000150	U	0.000150	0.000912
1,3-Dichlorobenzene	541-73-1	5,300	59,000	19	0.000065	U	0.000065	0.000887	0.000067	U	0.000067	0.000912
1,4-Dichlorobenzene	106-46-7	5	13	2	0.000128	U	0.000128	0.000887	0.000131	U	0.000131	0.000912
2-Butanone	78-93-3	3,100	44,000	0.9	0.000145	U	0.000145	0.002220	0.000149	U	0.000149	0.002280
2-Hexanone	591-78-6	NS	NS	NS	0.000083	U	0.000083	0.000887	0.000085	U	0.000085	0.000912
4-Methyl-2-pentanone	108-10-1	NS	NS	NS	0.000111	U	0.000111	0.000887	0.000114	U	0.000114	0.000912
Acetone	67-64-1	70,000	NS	19	0.000269	U	0.000269	0.002220	0.000276	U	0.000276	0.002280
Benzene	71-43-2	2	5	0.005	0.000081	U	0.000081	0.000887	0.000083	U	0.000083	0.000912
Bromochloromethane	74-97-5	NS	NS	NS	0.000164	U	0.000164	0.000887	0.000168	U	0.000168	0.000912
Bromodichloromethane	75-27-4	1	3	0.005	0.000111	U	0.000111	0.000887	0.000114	U	0.000114	0.000912
Bromoform	75-25-2	81	280	0.03	0.000156	U	0.000156	0.000887	0.000160	U	0.000160	0.000912
Bromomethane	74-83-9	25	59	0.04	0.000256	U	0.000256	0.000887	0.000263	U	0.000263	0.000912
Carbon disulfide	75-15-0	7,800	110,000	6	0.000127	U	0.000127	0.000887	0.000131	U	0.000131	0.000912
Carbon Tetrachloride	56-23-5	2	4	0.005	0.000133	U	0.000133	0.000887	0.000137	U	0.000137	0.000912
Chlorobenzene	108-90-7	510	7,400	0.6	0.000129	U	0.000129	0.000887	0.000132	U	0.000132	0.000912
Chlorodibromomethane	124-48-1	3	8	0.005	0.000109	U	0.000109	0.000887	0.000112	U	0.000112	0.000912
Chloroethane	75-00-3	220	1,100	NS	0.000151	U	0.000151	0.000887	0.000155	U	0.000155	0.000912
Chloroform	67-66-3	0.6	2	0.4	0.000149	U	0.000149	0.000887	0.000153	U	0.000153	0.000912
Chloromethane	74-87-3	4	12	NS	0.000341	U	0.000341	0.000887	0.000351	U	0.000351	0.000912
cis-1,2-Dichloroethene	156-59-2	230	560	0.3	0.000043	U	0.000043	0.000887	0.000044	U	0.000044	0.000912
cis-1,3-Dichloropropene	10061-01-5	2	7	0.005	0.000112	U	0.000112	0.000887	0.000115	U	0.000115	0.000912
Cyclohexane	110-82-7	NS	NS	NS	0.000196	U	0.000196	0.000887	0.000202	U	0.000202	0.000912
Dichlorodifluoromethane	75-71-8	490	230,000	39	0.000299	U	0.000299	0.000887	0.000308	U	0.000308	0.000912
EthylBenzene	100-41-4	7,800	110,000	13	0.000120	U	0.000120	0.000887	0.000124	U	0.000124	0.000912
Isopropylbenzene	98-82-8	NS	NS	NS	0.000139	U	0.000139	0.000887	0.000143	U	0.000143	0.000912
m+p-Xylenes	179601-23-1	12,000	170,000	19	0.000224	U	0.000224	0.001770	0.000230	U	0.000230	0.001820
Methyl Acetate	79-20-9	78,000	NS	22	0.000117	U	0.000117	0.000887	0.000121	U	0.000121	0.000912
Methyl tert-Butyl Ether	1634-04-4	110	320	0.2	0.000150	U	0.000150	0.000887	0.000154	U	0.000154	0.000912
Methylcyclohexane	108-87-2	NS	NS	NS	0.000143	U	0.000143	0.000887	0.000147	U	0.000147	0.000912
Methylene Chloride	75-09-2	46	230	0.01	0.000266	U	0.000266	0.000887	0.000274	U	0.000274	0.000912
o-Xylene	95-47-6	12,000	170,000	19	0.000114	U	0.000114	0.000887	0.000117	U	0.000117	0.000912
Styrene	100-42-5	90	260	3	0.000127	U	0.000127	0.000887	0.000130	U	0.000130	0.000912
tert-Butyl alcohol	75-65-0	1,400	11,000	0.3	0.001860	U	0.001860	0.008870	0.001910	U	0.001910	0.009120
Tetrachloroethene	127-18-4	43	1,500	0.005	0.000088	U	0.000088	0.000887	0.000090	U	0.000090	0.000912
Toluene	108-88-3	6,300	91,000	7	0.000071	U	0.000071	0.000887	0.000073	U	0.000073	0.000912
Total Xylenes	1330-20-7	12,000	170,000	19	0.000114	U	0.000114	0.000887	0.000117	U	0.000117	0.000912
trans-1,2-Dichloroethene	156-60-5	300	720	0.6	0.000120	U	0.000120	0.000887	0.000124	U	0.000124	0.000912
trans-1,3-Dichloropropene	10061-02-6	2	7	0.005	0.000169	U	0.000169	0.000887	0.000174	U	0.000174	0.000912
Trichloroethene	79-01-6	3	10	0.01	0.000130	U	0.000130	0.000887	0.000134	U	0.000134	0.000912
Trichlorofluoromethane	75-69-4	23,000	340,000	34	0.000102	U	0.000102	0.000887	0.000105	U	0.000105	0.000912
Vinyl chloride	75-01-4	0.7	2	0.005	0.000168	U	0.000168	0.000887	0.000173	U	0.000173	0.000912
Tentatively Identified Compounds		NS	NS	NS	0	J			0	J		

Table 2. Soil Analytical Data Summary
Base Neutral and Acid Extractable Compounds

Area of Concern Sample Identifier Laboratory Identifier Sample Date	CAS Number	NJDEP Residential Direct Contact SRS[1]	NJDEP Nonresidential Direct Contact SRS[2]	NJDEP Default Impact to Ground Water SSL[3]	8100452-01 NTP-1A 10/10/2018				8100452-02 NTP-2A 10/10/2018				8100452-03 NTP-2B 10/10/2018				8100452-04 NTP-3B 10/10/2018				8100452-05 NTP-4B 10/10/2018				8100452-06 NTP-6 10/10/2018				8100452-07 NTP-7 10/10/2018			
Semivolatile Organics - GC/MS (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
1-Methylnaphthalene	90-12-0	NS	NS	NS	0.0355	U	0.0355	0.2220	0.12	U	0.12	0.216	0.12	U	0.12	0.217	0.122	U	0.122	0.219	0.121	U	0.121	0.217	0.0364	U	0.0364	0.2280	0.122	U	0.122	0.219
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	0.0228	U	0.0228	0.1480	NA				NA				NA				NA				0.0234	U	0.0234	0.1520	NA			
2,4,5-Trichlorophenol	95-95-4	6,100	68,000	68	0.0201	U	0.0201	0.1480	NA				NA				NA				NA				0.0206	U	0.0206	0.1520	NA			
2,4,6-Trichlorophenol	88-06-2	19	74	0.2	0.00927	U	0.00927	0.14800	NA				NA				NA				NA				0.00950	U	0.00950	0.15200	NA			
2,4-Dichlorophenol	120-83-2	180	2,100	0.2	0.0149	U	0.0149	0.1480	NA				NA				NA				NA				0.0153	U	0.0153	0.1520	NA			
2,4-Dimethylphenol	105-67-9	1,200	14,000	1	0.0146	U	0.0146	0.1480	NA				NA				NA				NA				0.0149	U	0.0149	0.1520	NA			
2,4-Dinitrophenol	51-28-5	120	1,400	0.3	0.0214	U	0.0214	0.7420	NA				NA				NA				NA				0.0219	U	0.0219	0.7610	NA			
2,4-Dinitrotoluene	121-14-2	0.7	3	0.2	0.0158	U	0.0158	0.1480	NA				NA				NA				NA				0.0162	U	0.0162	0.1520	NA			
2,6-Dinitrotoluene	606-20-2	0.7	3	0.2	0.0354	U	0.0354	0.1480	NA				NA				NA				NA				0.0363	U	0.0363	0.1520	NA			
2-Chloronaphthalene	91-58-7	NS	NS	NS	0.0170	U	0.0170	0.1480	NA				NA				NA				NA				0.0174	U	0.0174	0.1520	NA			
2-Chlorophenol	95-57-8	310	2,200	0.8	0.0196	U	0.0196	0.1480	NA				NA				NA				NA				0.0201	U	0.0201	0.1520	NA			
2-Methylnaphthalene	91-57-6	230	2,400	8	0.0355	U	0.0355	0.2220	0.0345	U	0.0345	0.216	0.0346	U	0.0346	0.217	0.0349	U	0.0349	0.2190	0.0347	U	0.0347	0.217	0.0364	U	0.0364	0.2280	0.0349	U	0.0349	0.219
2-Methylphenol	95-48-7	310	3,400	NS	0.0293	U	0.0293	0.1480	NA				NA				NA				NA				0.0300	U	0.0300	0.1520	NA			
2-Nitroaniline	88-74-4	39	23,000	NS	0.0119	U	0.0119	0.1480	NA				NA				NA				NA				0.0122	U	0.0122	0.1520	NA			
2-Nitrophenol	88-75-5	NS	NS	NS	0.0165	U	0.0165	0.1480	NA				NA				NA				NA				0.0169	U	0.0169	0.1520	NA			
3,3'-Dichlorobenzidine	91-94-1	1	4	0.2	0.0156	U	0.0156	0.1480	NA				NA				NA				NA				0.0160	U	0.0160	0.1520	NA			
3+4-Methylphenol	106-44-5	31	340	NS	0.0271	U	0.0271	0.1480	NA				NA				NA				NA				0.0278	U	0.0278	0.1520	NA			
3-Nitroaniline	99-09-2	NS	NS	NS	0.0275	U	0.0275	0.1480	NA				NA				NA				NA				0.0282	U	0.0282	0.1520	NA			
4,6-Dinitro-2-methylphenol	534-52-1	6	68	0.3	0.0279	U	0.0279	0.3700	NA				NA				NA				NA				0.0286	U	0.0286	0.3800	NA			
4-Bromophenyl-phenyl ether	101-55-3	NS	NS	NS	0.0211	U	0.0211	0.1480	NA				NA				NA				NA				0.0217	U	0.0217	0.1520	NA			
4-Chloro-3-methylphenol	59-50-7	NS	NS	NS	0.0234	U	0.0234	0.1480	NA				NA				NA				NA				0.0239	U	0.0239	0.1520	NA			
4-Chloroaniline	106-47-8	NS	NS	NS	0.0052	U	0.0052	0.1480	NA				NA				NA				NA				0.0053	U	0.0053	0.1520	NA			
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	NS	0.0080	U	0.0080	0.1480	NA				NA				NA				NA				0.0082	U	0.0082	0.1520	NA			
4-Nitroaniline	100-01-6	NS	NS	NS	0.0741	U	0.0741	0.1480	NA				NA				NA				NA				0.0759	U	0.0759	0.1520	NA			
4-Nitrophenol	100-02-7	NS	NS	NS	0.0095	U	0.0095	0.1480	NA				NA				NA				NA				0.0097	U	0.0097	0.1520	NA			
Acenaphthene	83-32-9	3,400	37,000	110	0.0084	U	0.0084	0.1480	0.0082	U	0.0082	0.144	0.0082	U	0.0082	0.144	0.0083	U	0.0083	0.146	0.0083	U	0.0083	0.145	0.0087	U	0.0087	0.1520	0.0083	U	0.0083	0.146
Acenaphthylene	208-96-8	NS	300,000	NS	0.0052	U	0.0052	0.1480	0.005	U	0.005	0.144	0.0050	U	0.005	0.144	0.0051	U	0.0051	0.146	0.0050	U	0.005	0.145	0.0053	U	0.0053	0.1520	0.0051	U	0.0051	0.146
Acetophenone	98-86-2	2	5	3	0.0147	U	0.0147	0.1480	NA				NA				NA				NA				0.0151	U	0.0151	0.1520	NA			
Anthracene	120-12-7	17,000	30,000	2,400	0.0215	U	0.0215	0.1480	0.0209	U	0.0209	0.144	0.0209	U	0.0209	0.144	0.0211	U	0.0211	0.146	0.0210	U	0.021	0.145	0.0220	U	0.0220	0.1520	0.0211	U	0.0211	0.146
Atrazine	1912-24-9	210	2,400	0.2	0.0139	U	0.0139	0.1480	NA				NA				NA				NA				0.0143	U	0.0143	0.1520	NA			
Benzaldehyde	100-52-7	6,100	68,000	NS	0.0455	U	0.0455	0.1480	NA				NA				NA				NA				0.0466	U	0.0466	0.1520	NA			
Benzo(a)anthracene	56-55-3	5	17	0.8	0.0995	J	0.0149	0.1480	0.0754	J	0.0145	0.144	0.0876	J	0.0145	0.144	0.0147	U	0.0147	0.146	0.0146	U	0.0146	0.145	0.0153	U	0.0153	0.1520	0.133	J	0.0147	0.146
Benzo(a)pyrene	50-32-8	0.5	2	0.2	0.0887	J	0.0258	0.1480	0.0733	J	0.0251	0.144	0.0814	J	0.0251	0.144	0.0254	U	0.0254	0.146	0.0252	U	0.0252	0.145	0.0265	U	0.0265	0.1520	0.105	J	0.0254	0.146
Benzo(b)fluoranthene	205-99-2	5	17	2	0.107	J	0.0208	0.1480	0.0202	U	0.0202	0.144	0.0987	J	0.0203	0.144	0.0205	U	0.0205	0.146	0.0203	U	0.0203	0.145	0.0213	U	0.0213	0.1520	0.169		0.0205	0.146
Benzo(g,h,i)perylene	191-24-2	380,000	30,000	NS	0.0702	J	0.0120	0.1480	0.0911	J	0.0117	0.144	0.0663	J	0.0117	0.144	0.0118	U	0.0118	0.146	0.0117	U	0.0117	0.145	0.0123	U	0.0123	0.1520	0.124	J	0.0118	0.146
Benzo(k)fluoranthene	207-08-9	45	170	25	0.0788	J	0.0170	0.1480	0.106	J	0.0165	0.144	0.0460	J	0.0166	0.144	0.0168	U	0.0168	0.146	0.0166	U	0.0166	0.145	0.0174	U	0.0174	0.1520	0.106	J	0.0167	0.146
Biphenyl	92-52-4	61	240	140	0.0130	U	0.0130	0.1480	NA				NA				NA				NA				0.0133	U	0.0133	0.1520	NA			
bis(2-chloroethoxy)methane	111-91-1	NS	NS	NS	0.0205	U	0.0205	0.1480	NA				NA				NA				NA				0.0210	U	0.0210	0.1520	NA			
bis(2-chloroethyl)ether	111-44-4	0.4	2	0.2	0.0162	U	0.0162	0.1480	NA				NA				NA				NA				0.0166	U	0.0166	0.1520	NA			
bis(2-chloroisopropyl)ether	108-60-1	23	67	5	0.0533	U	0.0533	0.1480	NA				NA				NA				NA				0.0546	U	0.0546	0.1520	NA			
bis(2-ethylhexyl)phthalate	117-81-7	35	140	1,200	0.0296	U	0.0296	0.1480	NA				NA				NA				NA				0.0303	U	0.0303	0.1520	NA			
Butylbenzylphthalate	85-68-7	1,200	14,000	230	0.0135	U	0.0135	0.1480	NA				NA				NA				NA				0.0138	U	0.0138	0.1520	NA			
Caprolactam	105-60-2	31,000	340,000	12	0.0191	U	0.0191	0.1480	NA				NA				NA				NA				0.0196	U	0.0196	0.1520	NA			
Carbazole	86-74-8	24	96	NS	0.0285	U	0.0285	0.3700	NA				NA				NA				NA				0.0292	U	0.0292	0.3800	NA			
Chrysene	218-01-9	450	1,700	80	0.0909	J	0.0101	0.1480	0.0911	J	0.0099	0.1440	0.0730	J	0.0099	0.1440	0.0100	U	0.0100	0.1460	0.0099	U	0.0099	0.1450	0.0104	U	0.0104	0.1520	0.134	J	0.0100	0.1460
Dibenzo(a,h)anthracene	53-70-3	1	2	0.8	0.0147	U	0.0147	0.1480	0.0143	U	0.0143	0.1440	0.0143	U	0.0143	0.1440	0.0145	U	0.0145	0.1460	0.0143	U	0.0143	0.1450	0.0151	U	0.0151	0.1520	0.0144	U	0.0144	0.1460
Dibenzofuran	132-64-9	NS	NS	NS	0.0088	U	0.0088	0.1480	NA				NA				NA				NA				0.0090	U	0.0090	0.1520	NA			
Diethylphthalate	84-66-2	49,000	550,000	88	0.0287	U	0.0287	0.1480	NA				NA				NA				NA				0.0294	U	0.0294	0.1520	NA			
Dimethylphthalate	131-11-3	NS	NS	NS	0.0092	U	0.0092	0.1480	NA				NA				NA				NA				0.0721	J	0.0094	0.1520	NA			
Di-n-butylphthalate	84-74-2	6,100	68,000	760	0.0605	U	0.0605	0.1480	NA				NA				NA				NA				0.0620	U	0.0620	0.1520	NA			
Di-n-octylphthalate	117-84-0	2,400	27,000	3,300	0.0304	U	0.0304	0.1480	NA				NA				NA				NA				0.0311	U	0.0311	0.1520	NA			
Fluoranthene	206-44-0	2,300	24,000	1300	0.167		0.0139	0.1480	0.12	J	0.0135	0.144	0.153		0.0135	0.1440	0.0137	U	0.0137	0.1460	0.0136	U	0.0136	0.1450	0.0143	U	0.0143	0.1520	0.193		0.0137	0.1460
Fluorene	86-73-7	2,300	24,000	170	0.0123	U	0.0123	0.1480	0.012	U	0.012	0.144	0.0120	U	0.0120	0.1440	0.0122	U	0.0122	0.1460	0.0121	U	0.0121	0.1450	0.0127	U	0.0127	0.1520	0.0122	U	0.0122	0.1460
Hexachlorobenzene	118-74-1	0.3	1	0.2	0.0194	U	0.0194	0.1480	NA				NA				NA				NA				0.0198	U	0.0198	0.1520	NA			
Hexachlorobutadiene	87-68-3	6	25	0.9	0.0711	U	0.0711	0.1480	NA				NA				NA				NA				0.0729	U	0.0729	0.1520	NA			
Hexachlorocyclopentadiene	77-47-4	45	110	320	0.0617	U	0.0617	0.3700	NA				NA				NA				NA				0.0633	U	0.0633	0.3800	NA			
Hexachloroethane	67-72-1	12	48	0.2	0.0162	U	0.0162	0.1480	NA				NA				NA				NA				0.0166	U	0.0166	0.1520	NA			
Indeno(1,2,3-cd)pyrene	193-39-5	5	17	7	0.0610	J	0.0159	0.1480	0.0155	U	0.0155	0.1440	0.0155	U	0.0155	0.1440	0.0157	U	0.0157	0.1460	0.0155	U	0.0155	0.1450	0.0163	U	0.0163	0.1520	0.0157	U	0.0157	0.1460
Isophorone	78-59-1	510	2,000	0.2	0.0097	U	0.0097	0.1480	NA				NA				NA				NA				0.0099	U	0.0099	0.1520	NA			
Naphthalene	91-20-3	6	17	25	0.0110	U	0.0110	0.1480	0.0107	U	0.0107	0.1440	0.0107	U	0.0107	0.1440	0.0108	U	0.0108	0.1460	0.0107	U	0.0107	0.1450	0.0112	U	0.0112	0.1520	0.0108	U	0.0108	0.1460
Nitrobenzene	98-95-3	5	14	0.2	0.0251	U	0.0251	0.1480	NA				NA				NA				NA				0.0258	U	0.0258	0.1520	NA			
n-Nitroso-di-n-propylamine	621-64-7	0.2	0.3	0.2	0.0079	U	0.0079	0.1480	NA				NA				NA				NA				0.0081	U	0.0081	0.1520	NA			
n-Nitrosodiphenylamine	86-30-6	99	390	0.4	0.0316	U	0.0316	0.1480	NA				NA				NA				NA				0.0324	U	0.0324	0.1520	NA			
Phenanthrene	85-01-8	NS	300,000	NS	0.126	J	0.0195	0.1480	0.0544	J	0.0189	0.1440	0.114	J	0.0190	0.1440	0.0192	U	0.0192	0.1460	0.0190	U	0.0190	0.1450	0.0200	U	0.0200	0.1520	0.0964	J	0.0192	0.1460
Phenol	108-95-2	18,000	210,000	8	0.0120	U	0.0120	0.1480	NA				NA				NA				NA				0.0123	U	0.0123	0.1520	NA			
Pyrene	129-00-0	1,700	18,000	840	0.158		0.0109	0.1480	0.130	J	0.0106	0.1440	0.137	J	0.0106	0.1440	0.0107	U	0.0107	0.1460	0.0106	U	0.0106	0.1450	0.0112	U	0.0112	0.1520	0.184		0.0107	0.1460
Tentatively Identified Compounds		NS	NS	NS	0	J																			0	J						

Table 2. Soil Analytical Data Summary
Base Neutral and Acid Extractable Compounds

Area of Concern																															
Sample Identifier	CAS Number	NJDEP Residential Direct Contact SRS[1]	NJDEP Nonresidential Direct Contact SRS[2]	NJDEP Default Impact to Ground Water SSL[3]	8100452-08 STP-1B 10/10/2018				8100452-09 STP-2B 10/10/2018				8100452-10 STP-3B 10/10/2018				8100452-11 STP-4A 10/10/2018				8100452-12 STP-4B 10/10/2018				8100452-13 STP-5 10/10/2018				8100452-14 STP-7 10/10/2018			
Laboratory Identifier																															
Sample Date																															
Semivolatile Organics - GC/MS (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
1-Methylnaphthalene	90-12-0	NS	NS	NS	0.1240	U	0.1240	0.223	0.121	U	0.121	0.218	0.121	U	0.121	0.219	0.122	U	0.1220	0.221	0.0348	U	0.0348	0.2180	0.12	U	0.12	0.216	0.0343	U	0.0343	0.2150
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NA				NA				NA				NA				0.0224	U	0.0224	0.1450	NA				0.0221	U	0.0221	0.1430
2,4,5-Trichlorophenol	95-95-4	6,100	68,000	68	NA				NA				NA				NA				0.0197	U	0.0197	0.1450	NA				0.0195	U	0.0195	0.1430
2,4,6-Trichlorophenol	88-06-2	19	74	0.2	NA				NA				NA				NA				0.00908	U	0.00908	0.14500	NA				0.00896	U	0.00896	0.14300
2,4-Dichlorophenol	120-83-2	180	2,100	0.2	NA				NA				NA				NA				0.0146	U	0.0146	0.1450	NA				0.0144	U	0.0144	0.1430
2,4-Dimethylphenol	105-67-9	1,200	14,000	1	NA				NA				NA				NA				0.0143	U	0.0143	0.1450	NA				0.0141	U	0.0141	0.1430
2,4-Dinitrophenol	51-28-5	120	1,400	0.3	NA				NA				NA				NA				0.0209	U	0.0209	0.7270	NA				0.0207	U	0.0207	0.7180
2,4-Dinitrotoluene	121-14-2	0.7	3	0.2	NA				NA				NA				NA				0.0155	U	0.0155	0.1450	NA				0.0153	U	0.0153	0.1430
2,6-Dinitrotoluene	606-20-2	0.7	3	0.2	NA				NA				NA				NA				0.0347	U	0.0347	0.1450	NA				0.0342	U	0.0342	0.1430
2-Chloronaphthalene	91-58-7	NS	NS	NS	NA				NA				NA				NA				0.0167	U	0.0167	0.1450	NA				0.0165	U	0.0165	0.1430
2-Chlorophenol	95-57-8	310	2,200	0.8	NA				NA				NA				NA				0.0192	U	0.0192	0.1450	NA				0.0189	U	0.0189	0.1430
2-Methylnaphthalene	91-57-6	230	2,400	8	0.0356	U	0.0356	0.223	0.0348	U	0.0348	0.218	0.0349	U	0.0349	0.219	0.0352	U	0.0352	0.221	0.0348	U	0.0348	0.2180	0.0344	U	0.0344	0.216	0.0343	U	0.0343	0.2150
2-Methylphenol	95-48-7	310	3,400	NS	NA				NA				NA				NA				0.0287	U	0.0287	0.1450	NA				0.0283	U	0.0283	0.1430
2-Nitroaniline	88-74-4	39	23,000	NS	NA				NA				NA				NA				0.0117	U	0.0117	0.1450	NA				0.0115	U	0.0115	0.1430
2-Nitrophenol	88-75-5	NS	NS	NS	NA				NA				NA				NA				0.0161	U	0.0161	0.1450	NA				0.0159	U	0.0159	0.1430
3,3'-Dichlorobenzidine	91-94-1	1	4	0.2	NA				NA				NA				NA				0.0153	U	0.0153	0.1450	NA				0.0151	U	0.0151	0.1430
3+4-Methylphenol	106-44-5	31	340	NS	NA				NA				NA				NA				0.0266	U	0.0266	0.1450	NA				0.0263	U	0.0263	0.1430
3-Nitroaniline	99-09-2	NS	NS	NS	NA				NA				NA				NA				0.0269	U	0.0269	0.1450	NA				0.0266	U	0.0266	0.1430
4,6-Dinitro-2-methylphenol	534-52-1	6	68	0.3	NA				NA				NA				NA				0.0274	U	0.0274	0.3630	NA				0.0270	U	0.0270	0.3580
4-Bromophenyl-phenyl ether	101-55-3	NS	NS	NS	NA				NA				NA				NA				0.0207	U	0.0207	0.1450	NA				0.0204	U	0.0204	0.1430
4-Chloro-3-methylphenol	59-50-7	NS	NS	NS	NA				NA				NA				NA				0.0229	U	0.0229	0.1450	NA				0.0226	U	0.0226	0.1430
4-Chloroaniline	106-47-8	NS	NS	NS	NA				NA				NA				NA				0.0051	U	0.0051	0.1450	NA				0.0050	U	0.0050	0.1430
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	NS	NA				NA				NA				NA				0.0078	U	0.0078	0.1450	NA				0.0077	U	0.0077	0.1430
4-Nitroaniline	100-01-6	NS	NS	NS	NA				NA				NA				NA				0.0726	U	0.0726	0.1450	NA				0.0717	U	0.0717	0.1430
4-Nitrophenol	100-02-7	NS	NS	NS	NA				NA				NA				NA				0.0093	U	0.0093	0.1450	NA				0.0092	U	0.0092	0.1430
Acenaphthene	83-32-9	3,400	37,000	110	0.0085	U	0.0085	0.148	0.0083	U	0.0083	0.1450	0.0083	U	0.0083	0.1450	0.0084	U	0.0084	0.1470	0.0083	U	0.0083	0.1450	0.0082	U	0.0082	0.1440	0.0082	U	0.0082	0.1430
Acenaphthylene	208-96-8	NS	300,000	NS	0.0052	U	0.0052	0.148	0.0051	U	0.0051	0.1450	0.0051	U	0.0051	0.1450	0.0051	U	0.0051	0.1470	0.0051	U	0.0051	0.1450	0.0050	U	0.0050	0.1440	0.0050	U	0.0050	0.1430
Acetophenone	98-86-2	2	5	3	NA				NA				NA				NA				0.0144	U	0.0144	0.1450	NA				0.0142	U	0.0142	0.1430
Anthracene	120-12-7	17,000	30,000	2,400	0.0215	U	0.0215	0.148	0.0211	U	0.0211	0.1450	0.0211	U	0.0211	0.1450	0.0213	U	0.0213	0.1470	0.0210	U	0.0210	0.1450	0.0208	U	0.0208	0.1440	0.0208	U	0.0208	0.1430
Atrazine	1912-24-9	210	2,400	0.2	NA				NA				NA				NA				0.0136	U	0.0136	0.1450	NA				0.0135	U	0.0135	0.1430
Benzaldehyde	100-52-7	6,100	68,000	NS	NA				NA				NA				NA				0.0446	U	0.0446	0.1450	NA				0.0440	U	0.0440	0.1430
Benzo(a)anthracene	56-55-3	5	17	0.8	0.0150	U	0.0150	0.148	0.0146	U	0.0146	0.1450	0.0146	U	0.0146	0.1450	0.0148	U	0.0148	0.1470	0.0146	U	0.0146	0.1450	0.0145	U	0.0145	0.1440	0.0144	U	0.0144	0.1430
Benzo(a)pyrene	50-32-8	0.5	2	0.2	0.0259	U	0.0259	0.148	0.0253	U	0.0253	0.1450	0.0253	U	0.0253	0.1450	0.0256	U	0.0256	0.1470	0.0253	U	0.0253	0.1450	0.0250	U	0.0250	0.1440	0.0250	U	0.0250	0.1430
Benzo(b)fluoranthene	205-99-2	5	17	2	0.0209	U	0.0209	0.148	0.0204	U	0.0204	0.1450	0.0204	U	0.0204	0.1450	0.0206	U	0.0206	0.1470	0.0204	U	0.0204	0.1450	0.0202	U	0.0202	0.1440	0.0201	U	0.0201	0.1430
Benzo(g,h,i)perylene	191-24-2	380,000	30,000	NS	0.0121	U	0.0121	0.148	0.0118	U	0.0118	0.1450	0.0118	U	0.0118	0.1450	0.0119	U	0.0119	0.1470	0.0118	U	0.0118	0.1450	0.0117	U	0.0117	0.1440	0.0116	U	0.0116	0.1430
Benzo(k)fluoranthene	207-08-9	45	170	25	0.0171	U	0.0171	0.148	0.0167	U	0.0167	0.1450	0.0167	U	0.0167	0.1450	0.0169	U	0.0169	0.1470	0.0167	U	0.0167	0.1450	0.0165	U	0.0165	0.1440	0.0165	U	0.0165	0.1430
Biphenyl	92-52-4	61	240	140	NA				NA				NA				NA				0.0128	U	0.0128	0.1450	NA				0.0126	U	0.0126	0.1430
bis(2-chloroethoxy)methane	111-91-1	NS	NS	NS	NA				NA				NA				NA				0.0201	U	0.0201	0.1450	NA				0.0198	U	0.0198	0.1430
bis(2-chloroethyl)ether	111-44-4	0.4	2	0.2	NA				NA				NA				NA				0.0159	U	0.0159	0.1450	NA				0.0157	U	0.0157	0.1430
bis(2-chloroisopropyl)ether	108-60-1	23	67	5	NA				NA				NA				NA				0.0522	U	0.0522	0.1450	NA				0.0515	U	0.0515	0.1430
bis(2-ethylhexyl)phthalate	117-81-7	35	140	1,200	NA				NA				NA				NA				0.0290	U	0.0290	0.1450	NA				0.0286	U	0.0286	0.1430
Butylbenzylphthalate	85-68-7	1,200	14,000	230	NA				NA				NA				NA				0.0132	U	0.0132	0.1450	NA				0.0130	U	0.0130	0.1430
Caprolactam	105-60-2	31,000	340,000	12	NA				NA				NA				NA				0.0188	U	0.0188	0.1450	NA				0.0185	U	0.0185	0.1430
Carbazole	86-74-8	24	96	NS	NA				NA				NA				NA				0.0279	U	0.0279	0.3630	NA				0.0275	U	0.0275	0.3580
Chrysene	218-01-9	450	1,700	80	0.0102	U	0.0102	0.1480	0.0100	U	0.0100	0.1450	0.0100	U	0.0100	0.1450	0.0101	U	0.0101	0.1470	0.0100	U	0.0100	0.1450	0.0099	U	0.0099	0.1440	0.0098	U	0.0098	0.1430
Dibenzo(a,h)anthracene	53-70-3	1	2	0.8	0.0147	U	0.0147	0.1480	0.0144	U	0.0144	0.1450	0.0144	U	0.0144	0.1450	0.0146	U	0.0146	0.1470	0.0144	U	0.0144	0.1450	0.0142	U	0.0142	0.1440	0.0142	U	0.0142	0.1430
Dibenzofuran	132-64-9	NS	NS	NS	NA				NA				NA				NA				0.0087	U	0.0087	0.1450	NA				0.0085	U	0.0085	0.1430
Diethylphthalate	84-66-2	49,000	550,000	88	NA				NA				NA				NA				0.0281	U	0.0281	0.1450	NA				0.0278	U	0.0278	0.1430
Dimethylphthalate	131-11-3	NS	NS	NS	NA				NA				NA				NA				0.0632	J	0.0090	0.1450	NA				0.0089	U	0.0089	0.1430
Di-n-butylphthalate	84-74-2	6,100	68,000	760	NA				NA				NA				NA				0.0593	U	0.0593	0.1450	NA				0.0585	U	0.0585	0.1430
Di-n-octylphthalate	117-84-0	2,400	27,000	3,300	NA				NA				NA				NA				0.0298	U	0.0298	0.1450	NA				0.0294	U	0.0294	0.1430
Fluoranthene	206-44-0	2,300	24,000	1300	0.0140	U	0.0140	0.1480	0.0137	U	0.0137	0.1450	0.0137	U	0.0137	0.1450	0.0138	U	0.0138	0.1470	0.0136	U	0.0136	0.1450	0.0135	U	0.0135	0.1440	0.0135	U	0.0135	0.1430
Fluorene	86-73-7	2,300	24,000	170	0.0124	U	0.0124	0.1480	0.0121	U	0.0121	0.1450	0.0121	U	0.0121	0.1450	0.0122	U	0.0122	0.1470	0.0121	U	0.0121	0.1450	0.0120	U	0.0120	0.1440	0.0119	U	0.0119	0.1430
Hexachlorobenzene	118-74-1	0.3	1	0.2	NA				NA				NA				NA				0.0190	U	0.0190	0.1450	NA				0.0187	U	0.0187	0.1430
Hexachlorobutadiene	87-68-3	6	25	0.9	NA				NA				NA				NA				0.0697	U	0.0697	0.1450	NA				0.0688	U	0.0688	0.1430
Hexachlorocyclopentadiene	77-47-4	45	110	320	NA				NA				NA				NA				0.0605	U	0.0605	0.3630	NA				0.0597	U	0.0597	0.3580
Hexachloroethane	67-72-1	12	48	0.2	NA				NA				NA				NA				0.0159	U	0.0159	0.1450	NA				0.0157	U	0.0157	0.1430
Indeno(1,2,3-cd)pyrene	193-39-5	5	17	7	0.0160	U	0.0160	0.1480	0.0156	U	0.0156	0.1450	0.0156	U	0.0156	0.1450	0.0158	U	0.0158	0.1470	0.0156	U	0.0156	0.1450	0.0154	U	0.0154	0.1440	0.0154	U	0.0154	0.1430
Isophorone	78-59-1	510	2,000	0.2	NA				NA				NA				NA				0.0095	U	0.0095	0.1450	NA				0.0094	U	0.0094	0.1430
Naphthalene	91-20-3	6	17	25	0.0110	U	0.0110	0.1480	0.0108	U	0.0108	0.1450	0.0108	U	0.0108	0.1450	0.0109	U	0.0109	0.1470	0.0108	U	0.0108	0.1450	0.0106	U	0.0106	0.1440	0.0106	U	0.0106	0.1430
Nitrobenzene	98-95-3	5	14	0.2	NA				NA				NA				NA				0.0246	U	0.0246	0.1450	NA				0.0243	U	0.0243	0.1430
n-Nitroso-di-n-propylamine	621-64-7	0.2	0.3	0.2	NA				NA				NA				NA				0.0078	U	0.0078	0.1450	NA				0.0077	U	0.0077	0.1430
n-Nitrosodiphenylamine	86-30-6	99	390	0.4	NA				NA				NA				NA				0.0310	U	0.0310	0.1450	NA				0.0306	U	0.0306	0.1430
Phenanthrene	85-01-8	NS	300,000	NS	0.0195	U	0.0195	0.1480	0.0191	U	0.0191	0.1450	0.0191	U	0.0191	0.1450	0.0193	U	0.0193	0.1470	0.0191	U	0.0191	0.1450	0.0189	U	0.0189	0.1440	0.0188	U	0.0188	0.1430
Phenol	108-95-2	18,000	210,000	8	NA				NA				NA				NA				0.0118	U	0.0118	0.1450	NA				0.0116	U	0.0116	0.1430
Pyrene	129-00-0	1,700	18,000	840	0.0109	U	0.0109	0.1480	0.0107	U	0.0107	0.1450	0.0107	U	0.0107	0.1450	0.0108	U	0.0108	0.1470	0.0107	U	0.0107	0.1450	0.0106	U	0.0106	0.1440	0.0105	U	0.0105	0.1430
Tentatively Identified Compounds		NS	NS	NS																	0	J							0	J		

Table 3. Soil Analytical Data Summary
TAL Metals, EPH, PCBs, Pesticides

Area of Concern / Sample Identifier / Laboratory Identifier / Sample Date	CAS Number	NJDEP Residential Direct Contact SRS[1]	NJDEP Nonresidential Direct Contact SRS[2]	NJDEP Default Impact to Ground Water SSL[3]	8100452-01 NTP-1A 10/10/2018				8100452-02 NTP-2A 10/10/2018				8100452-03 NTP-2B 10/10/2018				8100452-04 NTP-3B 10/10/2018				8100452-05 NTP-4B 10/10/2018				8100452-06 NTP-6 10/10/2018				8100452-07 NTP-7 10/10/2018			
TAL Metals (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Aluminum	7429-90-5	78,000	NS	6,000	3290			2.81	3800			2.62	3620			2.56	4300			2.66	5500			2.86	**6670**			2.94	4450			2.71
Antimony	7440-36-0	31	450	6	1.4	U		1.40	1.3	U		1.31	1.3	U		1.28	1.3	U		1.33	1.4	U		1.43	1.5	U		1.47	1.4	U		1.35
Arsenic	7440-38-2	19.0	19	19	1.4	U		1.40	1.3	U		1.31	1.3	U		1.28	1.3	U		1.33	1.4	U		1.43	1.71			1.47	1.4	U		1.35
Barium	7440-39-3	16,000	59,000	2,100	18.6			0.562	21.4			0.525	17.9			0.511	24.3			0.532	31.8			0.572	29.1			0.588	21.4			0.542
Beryllium	7440-41-7	16	140	0.7	0.138			0.0281	0.160			0.0262	0.184			0.0256	0.181			0.0266	0.203			0.0286	0.282			0.0294	0.160			0.0271
Cadmium	7440-43-9	78	78	2	0.28	U		0.281	0.262	U		0.262	0.256	U		0.256	0.266	U		0.266	0.286	U		0.286	0.294	U		0.294	0.271	U		0.271
Calcium	7440-70-2	NS	NS	NS	938			28.1	1260			26.2	1100			25.6	619			26.6	933			28.6	1140			29.4	1080			27.1
Chromium	7440-47-3	NS	NS	NS	5.14			0.281	6.19			0.262	5.98			0.256	7.12			0.266	11.2			0.286	9.79			0.294	6.67			0.271
Cobalt	7440-48-4	1,600	590	90	2.31			0.225	2.83			0.210	2.49			0.205	3.03			0.213	4.83			0.229	3.59			0.235	3.01			0.217
Copper	7440-50-8	3,100	45,000	11,000	8.71			0.281	10.4			0.262	9.46			0.256	7.89			0.266	9.21			0.286	10.1			0.294	8.67			0.271
Iron	7439-89-6	NS	NS	NS	7190			5.62	8240			5.25	8490			5.11	9220			5.32	12100			5.72	12300			5.88	8450			5.42
Lead	7439-92-1	400	800	90	23.8			1.40	26.2			1.31	19			1.28	6.72			1.33	5.21			1.43	7.82			1.47	11.3			1.35
Magnesium	7439-95-4	NS	NS	NS	763			56.2	952			52.5	885			51.1	946			53.2	1750			57.2	1290			58.8	1090			54.2
Manganese	7439-96-5	11,000	5,900	65	**125**			0.281	**144**			0.262	**139**			0.256	**165**			0.266	**229**			0.286	**176**			0.294	**145**			0.271
Mercury	7439-97-6	23	65	0.1	0.0544	U		0.0544	0.0465	U		0.0465	0.0510	U		0.0510	0.0497	U		0.0497	0.0502	U		0.0502	0.0508	U		0.0508	0.0479	U		0.0479
Nickel	7440-02-0	1,600	23,000	48	4.33			0.140	5.14			0.131	5.09			0.128	5.13			0.133	7.75			0.143	6.47			0.147	5.23			0.135
Potassium	9/7/7440	NS	NS	NS	212			112	251			105	233			102	252			106	261			114	361			118	230			108
Selenium	7782-49-2	390	5,700	11	1.40	U		1.40	1.3	U		1.31	1.3	U		1.28	1.3	U		1.33	1.4	U		1.43	1.5	U		1.47	1.4	U		1.35
Silver	7440-22-4	390	5,700	1	0.56	U		0.562	0.525	U		0.525	0.511	U		0.511	0.532	U		0.532	0.572	U		0.572	0.588	U		0.588	0.542	U		0.542
Sodium	7440-23-5	NS	NS	NS	107			56.2	116			52.5	93.8			51.1	136			53.2	335			57.2	132			58.8	160			54.2
Thallium	7440-28-0	withdrawn	withdrawn	3	1.40	U		1.40	1.3	U		1.31	1.3	U		1.28	1.3	U		1.33	1.4	U		1.43	1.5	U		1.47	1.4	U		1.35
Vanadium	7440-62-2	78	1,100	NS	9.94			0.562	11.2			0.525	12.0			0.511	13.4			0.532	18.9			0.572	17.4			0.588	12.8			0.542
Zinc	7440-66-6	23,000	110,000	930	22.8			0.843	30.2			0.787	24.5			0.767	20.3			0.797	17.6			0.858	20.9			0.882	21.1			0.813
EPH (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Total EPH (Category 2)		NS	NS	NS	62.8		11.1	22.2	97.5		10.8	21.6	38.1		10.8	21.7	10.9	U	10.9	21.9	10.9	U	10.9	21.7	11.4	U	11.4	22.8	65.8		10.9	21.9
PCBs (mg/kg)					Result	Qualifier	MDL	RL																	Result	Qualifier	MDL	RL				
Aroclor-1016	12674-11-2	0	1	0	0.000654	U	0.000654	0.0367	NA				NA				NA				NA				0.000670	U	0.00067	0.0376	NA			
Aroclor-1221	11104-28-2	0	1	0.2	0.001130	U	0.00113	0.0367	NA				NA				NA				NA				0.001160	U	0.00116	0.0376	NA			
Aroclor-1232	11141-16-5	0.2	1	0.2	0.000864	U	0.000864	0.0367	NA				NA				NA				NA				0.000886	U	0.000886	0.0376	NA			
Aroclor-1242	53469-21-9	0	1	0	0.001250	U	0.00125	0.0367	NA				NA				NA				NA				0.001280	U	0.00128	0.0376	NA			
Aroclor-1248	12672-29-6	0	1	0.2	0.000861	U	0.000861	0.0367	NA				NA				NA				NA				0.000883	U	0.000883	0.0376	NA			
Aroclor-1254	11097-69-1	0	1	0.2	0.001310	U	0.00131	0.0367	NA				NA				NA				NA				0.001340	U	0.00134	0.0376	NA			
Aroclor-1260	11096-82-5	0	1	0.2	0.000968	U	0.000968	0.0367	NA				NA				NA				NA				0.000992	U	0.000992	0.0376	NA			
Aroclor-1262	37324-23-5	0.2	1.0	0.2	0.001420	U	0.00142	0.0367	NA				NA				NA				NA				0.001450	U	0.00145	0.0376	NA			
Aroclor-1268	11100-14-4	0	1	0.2	0.000742	U	0.000742	0.0367	NA				NA				NA				NA				0.000761	U	0.000761	0.0376	NA			
Total PCBs	1336-36-3	0	1	0	0.000654	U	0.000654	0.0367	NA				NA				NA				NA				0.000670	U	0.00067	0.0376	NA			
Pesticides (mg/kg)					Result	Qualifier	MDL	RL																	Result	Qualifier	MDL	RL				
4,4'-DDD	72-54-8	3	13	4	0.000875	U	0.000875	0.0015	NA				NA				NA				NA				0.000897	U	0.000897	0.0015	NA			
4,4'-DDE	72-55-9	2	9	18	0.001020	U	0.00102	0.0015	NA				NA				NA				NA				0.001050	U	0.00105	0.0015	NA			
4,4'-DDT	50-29-3	2.0	8	11	0.000694	U	0.000694	0.0015	NA				NA				NA				NA				0.000711	U	0.000711	0.0015	NA			
4,4'-DDT [2C]	50-29-3	2	8	11					NA				NA				NA				NA								NA			
Aldrin	309-00-2	0	0	0.2	0.000898	U	0.000898	0.0015	NA				NA				NA				NA				0.000920	U	0.00092	0.0015	NA			
alpha-BHC	319-84-6	0	1	0.002	0.000559	U	0.000559	0.0015	NA				NA				NA				NA				0.000574	U	0.000574	0.0015	NA			
beta-BHC	319-85-7	0	2	0.002	0.001420	U	0.00142	0.0015	NA				NA				NA				NA				0.001460	U	0.00146	0.0015	NA			
Chlordane	57-74-9	0.2	1.0	0.05	0.000971	U	0.000971	0.0015	NA				NA				NA				NA				0.000995	U	0.000995	0.0015	NA			
delta-BHC	319-86-8	NA	NA	NA	0.001120	U	0.00112	0.0015	NA				NA				NA				NA				0.001150	U	0.00115	0.0015	NA			
Dieldrin	60-57-1	0	0	0	0.000779	U	0.000779	0.0015	NA				NA				NA				NA				0.000798	U	0.000798	0.0015	NA			
Endosulfan I	959-98-8	470	6,800	4	0.001000	U	0.001	0.0015	NA				NA				NA				NA				0.001030	U	0.00103	0.0015	NA			
Endosulfan II	33213-65-9	470	6,800	4	0.000786	U	0.000786	0.0015	NA				NA				NA				NA				0.000806	U	0.000806	0.0015	NA			
Endosulfan sulfate	1031-07-8	470.0	6,800	2	0.000786	U	0.000786	0.0015	NA				NA				NA				NA				0.000806	U	0.000806	0.0015	NA			
Endrin	72-20-8	23	340	1	0.000742	U	0.000742	0.0015	NA				NA				NA				NA				0.000761	U	0.000761	0.0015	NA			
Endrin aldehyde	7421-93-4	NA	NA	NA	0.000617	U	0.000617	0.0015	NA				NA				NA				NA				0.000633	U	0.000633	0.0015	NA			
Endrin ketone	53494-70-5	NA	NA	NA	0.000882	U	0.000882	0.0015	NA				NA				NA				NA				0.000904	U	0.000904	0.0015	NA			
gamma-BHC (Lindane)	58-89-9	0	2	0.002	0.000661	U	0.000661	0.0015	NA				NA				NA				NA				0.000677	U	0.000677	0.0015	NA			
Heptachlor	76-44-8	0.1	0.7	0.5	0.000845	U	0.000845	0.0015	NA				NA				NA				NA				0.000867	U	0.000867	0.0015	NA			
Heptachlor Epoxide	1024-57-3	0	0	0.01	0.000904	U	0.000904	0.0015	NA				NA				NA				NA				0.000927	U	0.000927	0.0015	NA			
Methoxychlor	72-43-5	390	5,700	160	0.000920	U	0.00092	0.0015	NA				NA				NA				NA				0.000943	U	0.000943	0.0015	NA			
Toxaphene	8001-35-2	1	3	0	0.022500	U	0.0225	0.073	NA				NA				NA				NA				0.023000	U	0.023	0.075	NA			

Table 3. Soil Analytical Data Summary
TAL Metals, EPH, PCBs, Pesticides

PEAK ENVIRONMENTAL LLC

Area of Concern / Sample Identifier / Laboratory Identifier / Sample Date	CAS Number	NJDEP Residential Direct Contact SRS[1]	NJDEP Nonresidential Direct Contact SRS[2]	NJDEP Default Impact to Ground Water SSL[3]	8100452-08 STP-1B 10/10/2018				8100452-09 STP-2B 10/10/2018				8100452-10 STP-3B 10/10/2018				8100452-11 STP-4A 10/10/2018				8100452-12 STP-4B 10/10/2018				8100452-13 STP-5 10/10/2018				8100452-14 STP-7 10/10/2018			
TAL Metals (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Aluminum	7429-90-5	78,000	NS	6,000	5040			2.68	5700			2.94	4900			2.59	**6100**			2.83	5610			2.70	**6860**			2.87	4650			2.54
Antimony	7440-36-0	31	450	6	1.3	U		1.34	1.5	U		1.47	1.3	U		1.29	1.4	U		1.41	1.4	U		1.35	1.4	U		1.44	1.3	U		1.27
Arsenic	7440-38-2	19.0	19	19	1.3	U		1.34	1.5	U		1.47	1.65			1.29	1.4	U		1.41	1.4	U		1.35	3.01			1.44	1.49			1.27
Barium	7440-39-3	16,000	59,000	2,100	20.2			0.537	23.4			0.587	19.4			0.518	23.3			0.566	24.9			0.540	23.0			0.574	18.5			0.508
Beryllium	7440-41-7	16	140	0.7	0.191			0.0268	0.223			0.0294	0.184			0.0259	0.215			0.0283	0.211			0.0270	0.256			0.0287	0.178			0.0254
Cadmium	7440-43-9	78	78	2	0.268	U		0.268	0.294	U		0.294	0.259	U		0.259	0.283	U		0.283	0.270	U		0.270	0.287	U		0.287	0.254	U		0.254
Calcium	7440-70-2	NS	NS	NS	453			26.8	473			29.4	463			25.9	634			28.3	899			27.0	310			28.7	294			25.4
Chromium	7440-47-3	NS	NS	NS	7.08			0.268	7.63			0.294	6.68			0.259	8.26			0.283	7.75			0.270	8.30			0.287	6.14			0.254
Cobalt	7440-48-4	1,600	590	90	3.03			0.215	3.23			0.235	2.90			0.207	3.51			0.226	3.46			0.216	4.74			0.230	2.97			0.203
Copper	7440-50-8	3,100	45,000	11,000	7.22			0.268	8.57			0.294	7.66			0.259	9.17			0.283	8.07			0.270	9.68			0.287	6.73			0.254
Iron	7439-89-6	NS	NS	NS	9500			5.37	11100			5.87	9550			5.18	10900			5.66	10600			5.40	15100			5.74	9110			5.08
Lead	7439-92-1	400	800	90	4.88			1.34	6.05			1.47	6.01			1.29	10.6			1.41	8.26			1.35	5.25			1.44	4.31			1.27
Magnesium	7439-95-4	NS	NS	NS	966			53.7	1070			58.7	977			51.8	1110			56.6	1220			54.0	1150			57.4	910			50.8
Manganese	7439-96-5	11,000	5,900	65	**144**			0.268	**187**			0.294	**163**			0.259	**209**			0.283	**261**			0.270	**333**			0.287	**240**			0.254
Mercury	7439-97-6	23	65	0.1	0.0457	U		0.0457	0.0514	U		0.0514	0.0562			0.0478	0.0540	U		0.0540	0.0495	U		0.0495	0.0518	U		0.0518	0.0463	U		0.0463
Nickel	7440-02-0	1,600	23,000	48	5.18			0.134	5.76			0.147	5.18			0.129	6.25			0.141	6.18			0.135	7.29			0.144	5.05			0.127
Potassium	9/7/7440	NS	NS	NS	260			107	271			117	272			104	286			113	283			108	241			115	210			102
Selenium	7782-49-2	390	5,700	11	1.3	U		1.34	1.5	U		1.47	1.3	U		1.29	1.4	U		1.41	1.4	U		1.35	1.4	U		1.44	1.3	U		1.27
Silver	7440-22-4	390	5,700	1	0.537	U		0.537	0.587	U		0.587	0.518	U		0.518	0.566	U		0.566	0.540	U		0.540	0.574	U		0.574	0.508	U		0.508
Sodium	7440-23-5	NS	NS	NS	72.2			53.7	74.3			58.7	74.0			51.8	85.2			56.6	82.6			54.0	57.400	U		57.4	52.0			50.8
Thallium	7440-28-0	withdrawn	withdrawn	3	1.3	U		1.34	1.5	U		1.47	1.3	U		1.29	1.4	U		1.41	1.4	U		1.35	1.4	U		1.44	1.3	U		1.27
Vanadium	7440-62-2	78	1,100	NS	13.0			0.537	13.9			0.587	12.7			0.518	15.4			0.566	14.7			0.540	17.3			0.574	11.8			0.508
Zinc	7440-66-6	23,000	110,000	930	23.5			0.805	38.2			0.881	21.0			0.777	20.4			0.849	23.2			0.810	39.9			0.861	24.1			0.761
EPH (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Total EPH (Category 2)		NS	NS	NS	11.2	U	11.2	22.3	10.9	U	10.9	21.8	10.9	U	10.9	21.9	11	U	11	22.1	10.9	U	10.9	21.8	10.8	U	10.8	21.6	10.8	U	10.8	21.5
PCBs (mg/kg)																					Result	Qualifier	MDL	RL					Result	Qualifier	MDL	RL
Aroclor-1016	12674-11-2	0	1	0	NA				NA				NA				NA				0.000641	U	0.000641	0.036	NA				0.000633	U	0.000633	0.0355
Aroclor-1221	11104-28-2	0	1	0.2	NA				NA				NA				NA				0.001110	U	0.00111	0.036	NA				0.001090	U	0.00109	0.0355
Aroclor-1232	11141-16-5	0.2	1	0.2	NA				NA				NA				NA				0.000847	U	0.000847	0.036	NA				0.000836	U	0.000836	0.0355
Aroclor-1242	53469-21-9	0	1	0	NA				NA				NA				NA				0.001220	U	0.00122	0.036	NA				0.001210	U	0.00121	0.0355
Aroclor-1248	12672-29-6	0	1	0.2	NA				NA				NA				NA				0.000844	U	0.000844	0.036	NA				0.000833	U	0.000833	0.0355
Aroclor-1254	11097-69-1	0	1	0.2	NA				NA				NA				NA				0.001280	U	0.00128	0.036	NA				0.001270	U	0.00127	0.0355
Aroclor-1260	11096-82-5	0	1	0.2	NA				NA				NA				NA				0.000949	U	0.000949	0.036	NA				0.000936	U	0.000936	0.0355
Aroclor-1262	37324-23-5	0.2	1.0	0.2	NA				NA				NA				NA				0.001390	U	0.00139	0.036	NA				0.001370	U	0.00137	0.0355
Aroclor-1268	11100-14-4	0	1	0.2	NA				NA				NA				NA				0.000727	U	0.000727	0.036	NA				0.000718	U	0.000718	0.0355
Total PCBs	1336-36-3	0	1	0	NA				NA				NA				NA				0.000641	U	0.000641	0.036	NA				0.000633	U	0.000633	0.0355
Pesticides (mg/kg)																					Result	Qualifier	MDL	RL					Result	Qualifier	MDL	RL
4,4'-DDD	72-54-8	3	13	4	NA				NA				NA				NA				0.000858	U	0.000858	0.0014	NA				0.000847	U	0.000847	0.0014
4,4'-DDE	72-55-9	2	9	18	NA				NA				NA				NA				0.001000	U	0.001	0.0014	NA				0.000990	U	0.00099	0.0014
4,4'-DDT	50-29-3	2.0	8	11	NA				NA				NA				NA				0.000681	U	0.000681	0.0014	NA							
4,4'-DDT [2C]	50-29-3	2	8	11	NA				NA				NA				NA								NA				0.00928		0.000586	0.0014
Aldrin	309-00-2	0	0	0.2	NA				NA				NA				NA				0.000880	U	0.00088	0.0014	NA				0.000868	U	0.000868	0.0014
alpha-BHC	319-84-6	0	1	0.002	NA				NA				NA				NA				0.000549	U	0.000549	0.0014	NA				0.000541	U	0.000541	0.0014
beta-BHC	319-85-7	0	2	0.002	NA				NA				NA				NA				0.001400	U	0.0014	0.0014	NA				0.001380	U	0.00138	0.0014
Chlordane	57-74-9	0.2	1.0	0.05	NA				NA				NA				NA				0.0103		0.000952	0.0014	NA				0.0136		0.000939	0.0014
delta-BHC	319-86-8	NA	NA	NA	NA				NA				NA				NA				0.001100	U	0.0011	0.0014	NA				0.001080	U	0.00108	0.0014
Dieldrin	60-57-1	0	0	0	NA				NA				NA				NA				0.000763	U	0.000763	0.0014	NA				0.000753	U	0.000753	0.0014
Endosulfan I	959-98-8	470	6,800	4	NA				NA				NA				NA				0.000981	U	0.000981	0.0014	NA				0.000968	U	0.000968	0.0014
Endosulfan II	33213-65-9	470	6,800	4	NA				NA				NA				NA				0.000771	U	0.000771	0.0014	NA				0.000761	U	0.000761	0.0014
Endosulfan sulfate	1031-07-8	470.0	6,800	2	NA				NA				NA				NA				0.000771	U	0.000771	0.0014	NA				0.000761	U	0.000761	0.0014
Endrin	72-20-8	23	340	1	NA				NA				NA				NA				0.000727	U	0.000727	0.0014	NA				0.000718	U	0.000718	0.0014
Endrin aldehyde	7421-93-4	NA	NA	NA	NA				NA				NA				NA				0.000605	U	0.000605	0.0014	NA				0.000597	U	0.000597	0.0014
Endrin ketone	53494-70-5	NA	NA	NA	NA				NA				NA				NA				0.000865	U	0.000865	0.0014	NA				0.000853	U	0.000853	0.0014
gamma-BHC (Lindane)	58-89-9	0	2	0.002	NA				NA				NA				NA				0.000648	U	0.000648	0.0014	NA				0.000639	U	0.000639	0.0014
Heptachlor	76-44-8	0.1	0.7	0.5	NA				NA				NA				NA				0.000829	U	0.000829	0.0014	NA				0.000818	U	0.000818	0.0014
Heptachlor Epoxide	1024-57-3	0	0	0.01	NA				NA				NA				NA				0.000887	U	0.000887	0.0014	NA				0.000875	U	0.000875	0.0014
Methoxychlor	72-43-5	390	5,700	160	NA				NA				NA				NA				0.000902	U	0.000902	0.0014	NA				0.000890	U	0.00089	0.0014
Toxaphene	8001-35-2	1	3	0	NA				NA				NA				NA				0.022000	U	0.022	0.072	NA				0.021700	U	0.0217	0.071

ATTACHMENT I

APL

AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

ANALYTICAL RESULTS

REDUCED DELIVERABLES FORMAT

APL Work Order Number: 8100452

Peak Environmental

Project: Ridgewood

Brian Wood
Laboratory Director

All Results meet the requirements of the National Environmental Laboratory Accreditation Conference and/or State specific certifications as applicable.

Report Date: Oct 17, 2018

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NELAC National Environmental Laboratory Accreditation Conference
NJDEP #07010 / NYDOH #11634 / PADEP #68-02903

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Certified Environmental Testing

Sample Summary

Work Order: 8100452

Client: Peak Environmental

Project: Ridgewood

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NTP-1A	8100452-01	Soil	10/10/2018 00:00	10/10/2018 15:40
NTP-2A	8100452-02	Soil	10/10/2018 00:00	10/10/2018 15:40
NTP-2B	8100452-03	Soil	10/10/2018 00:00	10/10/2018 15:40
NTP-3B	8100452-04	Soil	10/10/2018 00:00	10/10/2018 15:40
NTP-4B	8100452-05	Soil	10/10/2018 12:35	10/10/2018 15:40
NTP-6	8100452-06	Soil	10/10/2018 12:50	10/10/2018 15:40
NTP-7	8100452-07	Soil	10/10/2018 13:00	10/10/2018 15:40
STP-1B	8100452-08	Soil	10/10/2018 13:15	10/10/2018 15:40
STP-2B	8100452-09	Soil	10/10/2018 13:30	10/10/2018 15:40
STP-3B	8100452-10	Soil	10/10/2018 13:40	10/10/2018 15:40
STP-4A	8100452-11	Soil	10/10/2018 00:00	10/10/2018 15:40
STP-4B	8100452-12	Soil	10/10/2018 00:00	10/10/2018 15:40
STP-5	8100452-13	Soil	10/10/2018 00:00	10/10/2018 15:40
STP-7	8100452-14	Soil	10/10/2018 00:00	10/10/2018 15:40

PN: 8100452

APL 8100452

AQUA PRO-TECH LABORATORIES

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1275 BLOOMFIELD AVENUE • BUILDING 6
FAIRFIELD, NEW JERSEY 07004

TEL: 973.227.0422
FAX: 973.227.2813

CHAIN OF CUSTODY

CLIENT: Peak	SEND REPORT TO: Joe Romeo
ADDRESS: 26 Kunkel Blvd. East Brunswick	ADDRESS: joe@peak-environmental.com
PHONE: 732-326-1010	PHONE:
E-MAIL: joe@peak-environmental.com	FAX:
PROJECT NAME: Ridgewood	SEND INVOICE TO: Kristen Van Dine
PROJECT MGR: Joe Romeo	ADDRESS: kristen@peak-environmental.com
PROJECT or PO #: 1594	SAMPLED BY: BJS

TURN-AROUND TIME

- ☐ APL STANDARD 2 weeks
- ☒ RUSH (choose one below)
- ☒ 24 hr. date & time required
- ☐ 48 hr. date & time required
- ☐ 72 hr. date & time required
- ☐ 1 week

REPORT FORMAT

- ☐ RESULTS ONLY
- ☒ NJ DEP REDUCED
- ☐ NJ DEP FULL
- ☐ STATE FORMS/E2 REPORTING

ELECTRONIC FORMAT

- ☒ EMAIL DELIVERY
- ☐ HAZSITE EDD
- ☒ EXCEL

SRP#

PWSID#

CONTAMINATION LEVEL

☐ HIGH ☐ MEDIUM ☐ LOW

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type GRAB	Sample Type COMP	MATRIX	No. of Bottles	Preservative	Analysis Requested
8100452-01	NTP-1A	10/10/18		X		S	5		TCL/TAL+30, EPH, VOCs
-02	NTP-2A						5		EPH, TAL metals, PAHs, VOCs
-03	NTP-2B						1		EPH, TAL metals, PAHs
-04	NTP-3B						1		" " "
-05	NTP-4B		12:35				5		" " " VOCs
-06	NTP-6		12:50				5		TCL/TAL+30, EPH, VOCs
-07	NTP-7		13:00				5		EPH, TAL metals, PAHs, VOCs
-08	STP-1B		13:15				5		" " " "
-09	STP-2B		13:30				1		EPH, TAL metals, PAHs

RELINQUISHED BY (Print) Ben Sweeney	DATE 10/10/18	RECEIVED BY (Print)	
Signature	Time 14:50	Signature	
RELINQUISHED BY (Print)	DATE 10/10/18	RECEIVED BY (Print)	
Signature	Time 3:40	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	

COMMENTS/SPECIAL INSTRUCTIONS

Cooler Temp. upon receipt at lab 4.0

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

PN: 8100452

APL
AQUA PRO-TECH LABORATORIES
www.aquaprotechlabs.com

1275 BLOOMFIELD AVENUE • BUILDING 6
FAIRFIELD, NEW JERSEY 07004

TEL: 973.227.0422
FAX: 973.227.2813

CHAIN OF CUSTODY

PAGE 2 OF 2

CLIENT:	SEND REPORT TO:
ADDRESS:	ADDRESS:
See page 1	See page 1
PHONE:	PHONE:
E-MAIL:	FAX:
PROJECT NAME:	SEND INVOICE TO:
PROJECT MGR:	ADDRESS:
PROJECT or PO #:	SAMPLED BY:

TURN-AROUND TIME
- ☐ APL STANDARD 2 weeks
- ☒ RUSH (choose one below)
  - ☒ 24 hr. date & time required
  - ☐ 48 hr. date & time required
  - ☐ 72 hr. date & time required
  - ☐ 1 week

REPORT FORMAT
- ☐ RESULTS ONLY
- ☒ NJ DEP REDUCED
- ☐ NJ DEP FULL
- ☐ STATE FORMS/E2 REPORTING

PWSID#

ELECTRONIC FORMAT
- ☒ EMAIL DELIVERY
- ☐ HAZSITE EDD
- ☒ EXCEL

SRP#

CONTAMINATION LEVEL
☐ HIGH ☐ MEDIUM ☐ LOW

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type GRAB	Sample Type COMP	MATRIX	No. of Bottles	Preservative	Analysis Requested
8100452-10	STP-3B	10/10/18	13:40	X		S	1		EPH, TAL metals, PAHs
-11	STP-4A	↓		↓		↓	5		" " " , VOCs
-12	STP-4B						5		TCL/TAL+30, EPH, VOCs
-13	STP-5						1		EPH, TAL metals, PAHs
-14	STP-7	↓		↓		↓	5		TCL/TAL+30, EPH, VOCs

RELINQUISHED BY (Print) Benjamin Sweeney	DATE 10/10/18	RECEIVED BY (Print)	
Signature	Time 14:50	Signature	
RELINQUISHED BY (Print)	DATE 10/10/18	RECEIVED BY (Print)	
Signature	Time 3:40	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	

COMMENTS/SPECIAL INSTRUCTIONS

Cooler Temp. upon receipt at lab 4.0

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

Extractable Petroleum Hydrocarbons:

Gas Chromatography/Flame Ionization Detector

New Jersey Department of Environmental Protection Site Remediation Program Extractable Petroleum Hydrocarbons Methodology (Version 3.0).
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8015B or NJDEP Office of Quality Assurance Quantitation of Semi-Volatile Petroleum Products in Water, Soil and Sediment OQA-QAM-025, Revision 6.

Metals:

Inductively-Coupled Plasma Atomic Emission Spectrometry or Inductively-Coupled Plasma Mass Spectroscopy

Wastewater and Groundwater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 200.7, Method 200.8.
Soil Samples: USEPA Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 6010D.

Mercury:

Cold Vapor Atomic Absorption Spectrometry

Wastewater and Groundwater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 245.1.
Soil Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 7471B.

Volatile Organic Compounds:

Purge and Trap Gas Chromatography/Mass Spectroscopy

Drinking Water Samples: USEPA Methods for the Determination of Organic Compounds in Drinking Water, Method 524.2.
Wastewater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 624.1, Method 8260C.
Soil and Groundwater Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8260C.

Semi-Volatile Organic Compounds:

Gas Chromatography/Mass Spectroscopy

Wastewater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 625.1, Method 8270D.
Soil and Groundwater Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8270D.

Pesticides:

Gas Chromatography/Electron Capture Detector

Wastewater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 608.3, Method 8081B.
Soil and Groundwater Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8081B.

Polychlorinated Biphenyls (PCBs):

Gas Chromatography/Electron Capture Detector

Wastewater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 608.3, Method 8082A.
Soil and Groundwater Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8082A.

General Chemistry Methods:

Various general chemistry methods are taken from "Standard Methods for the Examination of Water and Wastewater, 19th Edition"*.*

Specific method citations can be found on the Analytical Results Summary page of this report listed under 'Method'.

** A complete list of APL's certified Methods are accessible on the Standards And Docs page of the Results Retrieval System

MDL:

Method Detection Limit. The minimum reportable concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The value is calculated from the analysis of seven replicates of a spike sample. On analytical reports this value is corrected for percent moisture and any concentration or dilution factors.

RL:

Reporting Limit. The Concentration of the lowest calibration standard that was included in the initial calibration of the instrument. On analytical reports this value is corrected for percent moisture and any concentration or dilution factors.

Concentration (Conc) / Result:

If the compound is detected, the measured concentration is reported. If this column is left blank, or contains a 'less than' (<) symbol, the compound was not detected.

Tentatively Identified Compound (TIC):

A TIC is a non-targeted compound, not included in the calibration, identified by a mass spectral library search.

Qualifiers:

- **U:** Indicates the compound was analyzed for but was not detected.
- **J:** Indicates an estimated value. All tentatively identified compounds (TICs) and results below the RL receive this qualifier.
- **B:** Indicates the analyte was found in the method blank as well as the sample.
- **N:** Used when reporting a specific tentatively identified compound.
- **E:** Indicates that the concentration of the compound exceeds the calibration range of the instrument. The results of a diluted analysis will also be reported. The results of the dilution should be used for those compounds exceeding the calibration range in the undiluted analysis.

DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name: Aqua Pro-Tech Laboratories

Client: Peak Environmental

Project Location: Ridgewood

Project Number: 8100452

Laboratory Sample ID(s): 01-14 **Sampling Date(s):** October 10, 2018

List DKQP Methods Used: 8260C; 8270D; 8082A; 8081B; 7471B; 6010D; NJDEP-EPH-CAT2; SW 846 9014; Gravimetric

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	☑ Yes ☐ No
IA	Were the method specified handling, preservation, and holding time requirements met?	☑ Yes ☐ No
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	☑ Yes ☐ No ☐ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (4±2° C)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	☐ Yes ☑ No
5	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? Were these reporting limits met?	☑ Yes ☐ No ☑ Yes ☐ No ☐ N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	☑ Yes ☐ No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No° (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for Data of Known Quality.°

QUALITY CONTROL
Conformance/Non-Conformance Summary

ANALYSIS: INORGANICS [6010D / 7471B / 9014]

Method 6010D:
The percent recoveries for several metals were outside of the QC limits for the matrix spike and matrix spike duplicate (low).
The blank spike met all QC criteria.

Methods 7471B / 9014:
All samples met the QC criteria.

ANALYSIS: EPH [NJDEP-EPH-CAT2]

All samples met the QC criteria.

ANALYSIS: PCBs [8082A]

All samples met the QC criteria.

ANALYSIS: PESTICIDES [8081B]

All samples met the QC criteria.

ANALYSIS: VOLATILES BY GC/MS [8260C]

The continuing calibrations (S8J1704-CCV1, S8J1706-CCV1) were outside of the QC limits for Carbon disulfide (low).

Batch B8J1111:
The percent recovery for Chlorodibromomethane was outside of the QC limits for the blank spike (low).

ANALYSIS: SEMI-VOLATILES BY GC/MS [8270D]

The percent recovery for Benzaldehyde was outside of the QC limits for the blank spike, matrix spike and matrix spike duplicate (low).
The percent recoveries for several other compounds were outside of the QC limits for the matrix spike and matrix spike duplicate (low). The blank spike met all QC criteria.

Reviewed By: _____ (SK) 10/18/2018
Brian Wood - Laboratory Director — Date

For any questions about your Quality Control, please call us at 973-227-0422.

Positive Results Only Summary

8100452-01 (Soil) Sample Name: **NTP-1A**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	62.8		11.1	22.2	mg/kg dry	1	10/11/18 12:51

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	3290		0.0603	2.81	mg/kg dry	1	10/11/18 14:32
Barium	18.6		0.00108	0.562	mg/kg dry	1	10/11/18 14:32
Beryllium	0.138		0.000101	0.0281	mg/kg dry	1	10/11/18 14:32
Calcium	938		0.319	28.1	mg/kg dry	1	10/11/18 14:32
Chromium	5.14		0.00101	0.281	mg/kg dry	1	10/11/18 14:32
Cobalt	2.31		0.00122	0.225	mg/kg dry	1	10/11/18 14:32
Copper	8.71		0.00121	0.281	mg/kg dry	1	10/11/18 14:32
Iron	7190		0.127	5.62	mg/kg dry	1	10/11/18 14:32
Lead	23.8		0.00586	1.40	mg/kg dry	1	10/11/18 14:32
Magnesium	763		0.818	56.2	mg/kg dry	1	10/11/18 14:32
Manganese	125		0.000695	0.281	mg/kg dry	1	10/11/18 14:32
Nickel	4.33		0.00193	0.140	mg/kg dry	1	10/11/18 14:32
Potassium	212		2.64	112	mg/kg dry	1	10/11/18 14:32
Sodium	107		0.154	56.2	mg/kg dry	1	10/11/18 14:32
Vanadium	9.94		0.00973	0.562	mg/kg dry	1	10/11/18 14:32
Zinc	22.8		0.00258	0.843	mg/kg dry	1	10/11/18 14:32

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Benzo(a)anthracene	0.0995	J	0.0149	0.148	mg/kg dry	1	10/11/18 14:10
Benzo(a)pyrene	0.0887	J	0.0258	0.148	mg/kg dry	1	10/11/18 14:10
Benzo(b)fluoranthene	0.107	J	0.0208	0.148	mg/kg dry	1	10/11/18 14:10
Benzo(g,h,i)perylene	0.0702	J	0.0120	0.148	mg/kg dry	1	10/11/18 14:10
Benzo(k)fluoranthene	0.0788	J	0.0170	0.148	mg/kg dry	1	10/11/18 14:10
Chrysene	0.0909	J	0.0101	0.148	mg/kg dry	1	10/11/18 14:10
Fluoranthene	0.167		0.0139	0.148	mg/kg dry	1	10/11/18 14:10
Indeno(1,2,3-cd)pyrene	0.0610	J	0.0159	0.148	mg/kg dry	1	10/11/18 14:10
Phenanthrene	0.126	J	0.0195	0.148	mg/kg dry	1	10/11/18 14:10
Pyrene	0.158		0.0109	0.148	mg/kg dry	1	10/11/18 14:10

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Tetrachloroethene	0.00329		0.000121	0.00122	mg/kg dry	1	10/10/18 18:59

8100452-02 (Soil) Sample Name: **NTP-2A**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	97.5		10.8	21.6	mg/kg dry	1	10/11/18 13:27

Positive Results Only Summary

8100452-02 (Soil) Sample Name: **NTP-2A**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	3800		0.0563	2.62	mg/kg dry	1	10/11/18 14:34
Barium	21.4		0.00101	0.525	mg/kg dry	1	10/11/18 14:34
Beryllium	0.160		0.0000946	0.0262	mg/kg dry	1	10/11/18 14:34
Calcium	1260		0.298	26.2	mg/kg dry	1	10/11/18 14:34
Chromium	6.19		0.000943	0.262	mg/kg dry	1	10/11/18 14:34
Cobalt	2.83		0.00114	0.210	mg/kg dry	1	10/11/18 14:34
Copper	10.4		0.00113	0.262	mg/kg dry	1	10/11/18 14:34
Iron	8240		0.119	5.25	mg/kg dry	1	10/11/18 14:34
Lead	26.2		0.00548	1.31	mg/kg dry	1	10/11/18 14:34
Magnesium	952		0.764	52.5	mg/kg dry	1	10/11/18 14:34
Manganese	144		0.000649	0.262	mg/kg dry	1	10/11/18 14:34
Nickel	5.14		0.00180	0.131	mg/kg dry	1	10/11/18 14:34
Potassium	251		2.47	105	mg/kg dry	1	10/11/18 14:34
Sodium	116		0.144	52.5	mg/kg dry	1	10/11/18 14:34
Vanadium	11.2		0.00909	0.525	mg/kg dry	1	10/11/18 14:34
Zinc	30.2		0.00241	0.787	mg/kg dry	1	10/11/18 14:34

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Benzo(a)anthracene	0.0754	J	0.0145	0.144	mg/kg dry	1	10/11/18 14:38
Benzo(a)pyrene	0.0733	J	0.0251	0.144	mg/kg dry	1	10/11/18 14:38
Benzo(g,h,i)perylene	0.0911	J	0.0117	0.144	mg/kg dry	1	10/11/18 14:38
Benzo(k)fluoranthene	0.106	J	0.0165	0.144	mg/kg dry	1	10/11/18 14:38
Chrysene	0.0911	J	0.00985	0.144	mg/kg dry	1	10/11/18 14:38
Fluoranthene	0.120	J	0.0135	0.144	mg/kg dry	1	10/11/18 14:38
Phenanthrene	0.0544	J	0.0189	0.144	mg/kg dry	1	10/11/18 14:38
Pyrene	0.130	J	0.0106	0.144	mg/kg dry	1	10/11/18 14:38

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Tetrachloroethene	0.00240		0.0000870	0.000879	mg/kg dry	1	10/10/18 19:28

8100452-03 (Soil) Sample Name: **NTP-2B**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	38.1		10.8	21.7	mg/kg dry	1	10/11/18 14:02

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	3620		0.0549	2.56	mg/kg dry	1	10/11/18 14:36
Barium	17.9		0.000986	0.511	mg/kg dry	1	10/11/18 14:36
Beryllium	0.184		0.0000922	0.0256	mg/kg dry	1	10/11/18 14:36

Positive Results Only Summary

8100452-03 (Soil) Sample Name: **NTP-2B**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Calcium	1100		0.290	25.6	mg/kg dry	1	10/11/18 14:36
Chromium	5.98		0.000919	0.256	mg/kg dry	1	10/11/18 14:36
Cobalt	2.49		0.00111	0.205	mg/kg dry	1	10/11/18 14:36
Copper	9.46		0.00110	0.256	mg/kg dry	1	10/11/18 14:36
Iron	8490		0.116	5.11	mg/kg dry	1	10/11/18 14:36
Lead	19.0		0.00534	1.28	mg/kg dry	1	10/11/18 14:36
Magnesium	885		0.744	51.1	mg/kg dry	1	10/11/18 14:36
Manganese	139		0.000633	0.256	mg/kg dry	1	10/11/18 14:36
Nickel	5.09		0.00176	0.128	mg/kg dry	1	10/11/18 14:36
Potassium	233		2.40	102	mg/kg dry	1	10/11/18 14:36
Sodium	93.8		0.140	51.1	mg/kg dry	1	10/11/18 14:36
Vanadium	12.0		0.00886	0.511	mg/kg dry	1	10/11/18 14:36
Zinc	24.5		0.00235	0.767	mg/kg dry	1	10/11/18 14:36

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Benzo(a)anthracene	0.0876	J	0.0145	0.144	mg/kg dry	1	10/11/18 15:07
Benzo(a)pyrene	0.0814	J	0.0251	0.144	mg/kg dry	1	10/11/18 15:07
Benzo(b)fluoranthene	0.0987	J	0.0203	0.144	mg/kg dry	1	10/11/18 15:07
Benzo(g,h,i)perylene	0.0663	J	0.0117	0.144	mg/kg dry	1	10/11/18 15:07
Benzo(k)fluoranthene	0.0460	J	0.0166	0.144	mg/kg dry	1	10/11/18 15:07
Chrysene	0.0730	J	0.00989	0.144	mg/kg dry	1	10/11/18 15:07
Fluoranthene	0.153		0.0135	0.144	mg/kg dry	1	10/11/18 15:07
Phenanthrene	0.114	J	0.0190	0.144	mg/kg dry	1	10/11/18 15:07
Pyrene	0.137	J	0.0106	0.144	mg/kg dry	1	10/11/18 15:07

8100452-04 (Soil) Sample Name: **NTP-3B**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	4300		0.0571	2.66	mg/kg dry	1	10/11/18 14:38
Barium	24.3		0.00102	0.532	mg/kg dry	1	10/11/18 14:38
Beryllium	0.181		0.0000959	0.0266	mg/kg dry	1	10/11/18 14:38
Calcium	619		0.302	26.6	mg/kg dry	1	10/11/18 14:38
Chromium	7.12		0.000956	0.266	mg/kg dry	1	10/11/18 14:38
Cobalt	3.03		0.00116	0.213	mg/kg dry	1	10/11/18 14:38
Copper	7.89		0.00115	0.266	mg/kg dry	1	10/11/18 14:38
Iron	9220		0.120	5.32	mg/kg dry	1	10/11/18 14:38
Lead	6.72		0.00555	1.33	mg/kg dry	1	10/11/18 14:38
Magnesium	946		0.774	53.2	mg/kg dry	1	10/11/18 14:38
Manganese	165		0.000658	0.266	mg/kg dry	1	10/11/18 14:38
Nickel	5.13		0.00183	0.133	mg/kg dry	1	10/11/18 14:38

Positive Results Only Summary

8100452-04 (Soil) Sample Name: **NTP-3B**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Potassium	252		2.50	106	mg/kg dry	1	10/11/18 14:38
Sodium	136		0.146	53.2	mg/kg dry	1	10/11/18 14:38
Vanadium	13.4		0.00921	0.532	mg/kg dry	1	10/11/18 14:38
Zinc	20.3		0.00245	0.797	mg/kg dry	1	10/11/18 14:38

8100452-05 (Soil) Sample Name: **NTP-4B**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	5500		0.0614	2.86	mg/kg dry	1	10/11/18 14:40
Barium	31.8		0.00110	0.572	mg/kg dry	1	10/11/18 14:40
Beryllium	0.203		0.000103	0.0286	mg/kg dry	1	10/11/18 14:40
Calcium	933		0.325	28.6	mg/kg dry	1	10/11/18 14:40
Chromium	11.2		0.00103	0.286	mg/kg dry	1	10/11/18 14:40
Cobalt	4.83		0.00125	0.229	mg/kg dry	1	10/11/18 14:40
Copper	9.21		0.00124	0.286	mg/kg dry	1	10/11/18 14:40
Iron	12100		0.129	5.72	mg/kg dry	1	10/11/18 14:40
Lead	5.21		0.00597	1.43	mg/kg dry	1	10/11/18 14:40
Magnesium	1750		0.833	57.2	mg/kg dry	1	10/11/18 14:40
Manganese	229		0.000708	0.286	mg/kg dry	1	10/11/18 14:40
Nickel	7.75		0.00197	0.143	mg/kg dry	1	10/11/18 14:40
Potassium	261		2.69	114	mg/kg dry	1	10/11/18 14:40
Sodium	335		0.157	57.2	mg/kg dry	1	10/11/18 14:40
Vanadium	18.9		0.00991	0.572	mg/kg dry	1	10/11/18 14:40
Zinc	17.6		0.00263	0.858	mg/kg dry	1	10/11/18 14:40

8100452-06 (Soil) Sample Name: **NTP-6**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	6670		0.0631	2.94	mg/kg dry	1	10/11/18 14:42
Arsenic	1.71		0.0141	1.47	mg/kg dry	1	10/11/18 14:42
Barium	29.1		0.00113	0.588	mg/kg dry	1	10/11/18 14:42
Beryllium	0.282		0.000106	0.0294	mg/kg dry	1	10/11/18 14:42
Calcium	1140		0.334	29.4	mg/kg dry	1	10/11/18 14:42
Chromium	9.79		0.00106	0.294	mg/kg dry	1	10/11/18 14:42
Cobalt	3.59		0.00128	0.235	mg/kg dry	1	10/11/18 14:42
Copper	10.1		0.00127	0.294	mg/kg dry	1	10/11/18 14:42
Iron	12300		0.133	5.88	mg/kg dry	1	10/11/18 14:42
Lead	7.82		0.00614	1.47	mg/kg dry	1	10/11/18 14:42
Magnesium	1290		0.856	58.8	mg/kg dry	1	10/11/18 14:42
Manganese	176		0.000728	0.294	mg/kg dry	1	10/11/18 14:42

Positive Results Only Summary

8100452-06 (Soil) Sample Name: **NTP-6**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Nickel	6.47		0.00202	0.147	mg/kg dry	1	10/11/18 14:42
Potassium	361		2.76	118	mg/kg dry	1	10/11/18 14:42
Sodium	132		0.161	58.8	mg/kg dry	1	10/11/18 14:42
Vanadium	17.4		0.0102	0.588	mg/kg dry	1	10/11/18 14:42
Zinc	20.9		0.00270	0.882	mg/kg dry	1	10/11/18 14:42

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Dimethylphthalate	0.0721	J	0.00942	0.152	mg/kg dry	1	10/11/18 16:32

8100452-07 (Soil) Sample Name: **NTP-7**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	65.8		10.9	21.9	mg/kg dry	1	10/11/18 16:35

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	4450		0.0582	2.71	mg/kg dry	1	10/11/18 14:44
Barium	21.4		0.00104	0.542	mg/kg dry	1	10/11/18 14:44
Beryllium	0.160		0.0000978	0.0271	mg/kg dry	1	10/11/18 14:44
Calcium	1080		0.308	27.1	mg/kg dry	1	10/11/18 14:44
Chromium	6.67		0.000974	0.271	mg/kg dry	1	10/11/18 14:44
Cobalt	3.01		0.00118	0.217	mg/kg dry	1	10/11/18 14:44
Copper	8.67		0.00117	0.271	mg/kg dry	1	10/11/18 14:44
Iron	8450		0.122	5.42	mg/kg dry	1	10/11/18 14:44
Lead	11.3		0.00566	1.35	mg/kg dry	1	10/11/18 14:44
Magnesium	1090		0.789	54.2	mg/kg dry	1	10/11/18 14:44
Manganese	145		0.000671	0.271	mg/kg dry	1	10/11/18 14:44
Nickel	5.23		0.00186	0.135	mg/kg dry	1	10/11/18 14:44
Potassium	230		2.55	108	mg/kg dry	1	10/11/18 14:44
Sodium	160		0.148	54.2	mg/kg dry	1	10/11/18 14:44
Vanadium	12.8		0.00939	0.542	mg/kg dry	1	10/11/18 14:44
Zinc	21.1		0.00249	0.813	mg/kg dry	1	10/11/18 14:44

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Benzo(a)anthracene	0.133	J	0.0147	0.146	mg/kg dry	1	10/11/18 17:01
Benzo(a)pyrene	0.105	J	0.0254	0.146	mg/kg dry	1	10/11/18 17:01
Benzo(b)fluoranthene	0.169		0.0205	0.146	mg/kg dry	1	10/11/18 17:01
Benzo(g,h,i)perylene	0.124	J	0.0118	0.146	mg/kg dry	1	10/11/18 17:01
Benzo(k)fluoranthene	0.106	J	0.0167	0.146	mg/kg dry	1	10/11/18 17:01
Chrysene	0.134	J	0.00998	0.146	mg/kg dry	1	10/11/18 17:01

Positive Results Only Summary

8100452-07 (Soil) Sample Name: **NTP-7**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Fluoranthene	0.193		0.0137	0.146	mg/kg dry	1	10/11/18 17:01
Phenanthrene	0.0964	J	0.0192	0.146	mg/kg dry	1	10/11/18 17:01
Pyrene	0.184		0.0107	0.146	mg/kg dry	1	10/11/18 17:01

8100452-08 (Soil) Sample Name: **STP-1B**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	5040		0.0576	2.68	mg/kg dry	1	10/11/18 14:46
Barium	20.2		0.00103	0.537	mg/kg dry	1	10/11/18 14:46
Beryllium	0.191		0.0000968	0.0268	mg/kg dry	1	10/11/18 14:46
Calcium	453		0.305	26.8	mg/kg dry	1	10/11/18 14:46
Chromium	7.08		0.000965	0.268	mg/kg dry	1	10/11/18 14:46
Cobalt	3.03		0.00117	0.215	mg/kg dry	1	10/11/18 14:46
Copper	7.22		0.00116	0.268	mg/kg dry	1	10/11/18 14:46
Iron	9500		0.121	5.37	mg/kg dry	1	10/11/18 14:46
Lead	4.88		0.00560	1.34	mg/kg dry	1	10/11/18 14:46
Magnesium	966		0.781	53.7	mg/kg dry	1	10/11/18 14:46
Manganese	144		0.000664	0.268	mg/kg dry	1	10/11/18 14:46
Nickel	5.18		0.00185	0.134	mg/kg dry	1	10/11/18 14:46
Potassium	260		2.52	107	mg/kg dry	1	10/11/18 14:46
Sodium	72.2		0.147	53.7	mg/kg dry	1	10/11/18 14:46
Vanadium	13.0		0.00929	0.537	mg/kg dry	1	10/11/18 14:46
Zinc	23.5		0.00247	0.805	mg/kg dry	1	10/11/18 14:46

8100452-09 (Soil) Sample Name: **STP-2B**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	5700		0.0631	2.94	mg/kg dry	1	10/11/18 14:48
Barium	23.4		0.00113	0.587	mg/kg dry	1	10/11/18 14:48
Beryllium	0.223		0.000106	0.0294	mg/kg dry	1	10/11/18 14:48
Calcium	473		0.334	29.4	mg/kg dry	1	10/11/18 14:48
Chromium	7.63		0.00106	0.294	mg/kg dry	1	10/11/18 14:48
Cobalt	3.23		0.00128	0.235	mg/kg dry	1	10/11/18 14:48
Copper	8.57		0.00127	0.294	mg/kg dry	1	10/11/18 14:48
Iron	11100		0.133	5.87	mg/kg dry	1	10/11/18 14:48
Lead	6.05		0.00613	1.47	mg/kg dry	1	10/11/18 14:48
Magnesium	1070		0.855	58.7	mg/kg dry	1	10/11/18 14:48
Manganese	187		0.000727	0.294	mg/kg dry	1	10/11/18 14:48
Nickel	5.76		0.00202	0.147	mg/kg dry	1	10/11/18 14:48
Potassium	271		2.76	117	mg/kg dry	1	10/11/18 14:48

Positive Results Only Summary

8100452-09 (Soil) Sample Name: **STP-2B**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sodium	74.3		0.161	58.7	mg/kg dry	1	10/11/18 14:48
Vanadium	13.9		0.0102	0.587	mg/kg dry	1	10/11/18 14:48
Zinc	38.2		0.00270	0.881	mg/kg dry	1	10/11/18 14:48

8100452-10 (Soil) Sample Name: **STP-3B**

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	0.0562		0.0235	0.0478	mg/kg dry	1	10/11/18 12:53

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	4900		0.0556	2.59	mg/kg dry	1	10/11/18 14:50
Arsenic	1.65		0.0124	1.29	mg/kg dry	1	10/11/18 14:50
Barium	19.4		0.000998	0.518	mg/kg dry	1	10/11/18 14:50
Beryllium	0.184		0.0000934	0.0259	mg/kg dry	1	10/11/18 14:50
Calcium	463		0.294	25.9	mg/kg dry	1	10/11/18 14:50
Chromium	6.68		0.000931	0.259	mg/kg dry	1	10/11/18 14:50
Cobalt	2.90		0.00113	0.207	mg/kg dry	1	10/11/18 14:50
Copper	7.66		0.00112	0.259	mg/kg dry	1	10/11/18 14:50
Iron	9550		0.117	5.18	mg/kg dry	1	10/11/18 14:50
Lead	6.01		0.00541	1.29	mg/kg dry	1	10/11/18 14:50
Magnesium	977		0.754	51.8	mg/kg dry	1	10/11/18 14:50
Manganese	163		0.000641	0.259	mg/kg dry	1	10/11/18 14:50
Nickel	5.18		0.00178	0.129	mg/kg dry	1	10/11/18 14:50
Potassium	272		2.43	104	mg/kg dry	1	10/11/18 14:50
Sodium	74.0		0.142	51.8	mg/kg dry	1	10/11/18 14:50
Vanadium	12.7		0.00897	0.518	mg/kg dry	1	10/11/18 14:50
Zinc	21.0		0.00238	0.777	mg/kg dry	1	10/11/18 14:50

8100452-11 (Soil) Sample Name: **STP-4A**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	6100		0.0608	2.83	mg/kg dry	1	10/11/18 15:31
Barium	23.3		0.00109	0.566	mg/kg dry	1	10/11/18 15:31
Beryllium	0.215		0.000102	0.0283	mg/kg dry	1	10/11/18 15:31
Calcium	634		0.321	28.3	mg/kg dry	1	10/11/18 15:31
Chromium	8.26		0.00102	0.283	mg/kg dry	1	10/11/18 15:31
Cobalt	3.51		0.00123	0.226	mg/kg dry	1	10/11/18 15:31
Copper	9.17		0.00122	0.283	mg/kg dry	1	10/11/18 15:31
Iron	10900		0.128	5.66	mg/kg dry	1	10/11/18 15:31

Positive Results Only Summary

8100452-11 (Soil) Sample Name: **STP-4A**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Lead	10.6		0.00591	1.41	mg/kg dry	1	10/11/18 15:31
Magnesium	1110		0.824	56.6	mg/kg dry	1	10/11/18 15:31
Manganese	209		0.000701	0.283	mg/kg dry	1	10/11/18 15:31
Nickel	6.25		0.00195	0.141	mg/kg dry	1	10/11/18 15:31
Potassium	286		2.66	113	mg/kg dry	1	10/11/18 15:31
Sodium	85.2		0.155	56.6	mg/kg dry	1	10/11/18 15:31
Vanadium	15.4		0.00980	0.566	mg/kg dry	1	10/11/18 15:31
Zinc	20.4		0.00260	0.849	mg/kg dry	1	10/11/18 15:31

8100452-12 (Soil) Sample Name: **STP-4B**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	5610		0.0580	2.70	mg/kg dry	1	10/11/18 15:33
Barium	24.9		0.00104	0.540	mg/kg dry	1	10/11/18 15:33
Beryllium	0.211		0.0000974	0.0270	mg/kg dry	1	10/11/18 15:33
Calcium	899		0.307	27.0	mg/kg dry	1	10/11/18 15:33
Chromium	7.75		0.000971	0.270	mg/kg dry	1	10/11/18 15:33
Cobalt	3.46		0.00118	0.216	mg/kg dry	1	10/11/18 15:33
Copper	8.07		0.00117	0.270	mg/kg dry	1	10/11/18 15:33
Iron	10600		0.122	5.40	mg/kg dry	1	10/11/18 15:33
Lead	8.26		0.00564	1.35	mg/kg dry	1	10/11/18 15:33
Magnesium	1220		0.786	54.0	mg/kg dry	1	10/11/18 15:33
Manganese	261		0.000668	0.270	mg/kg dry	1	10/11/18 15:33
Nickel	6.18		0.00186	0.135	mg/kg dry	1	10/11/18 15:33
Potassium	283		2.54	108	mg/kg dry	1	10/11/18 15:33
Sodium	82.6		0.148	54.0	mg/kg dry	1	10/11/18 15:33
Vanadium	14.7		0.00935	0.540	mg/kg dry	1	10/11/18 15:33
Zinc	23.2		0.00248	0.810	mg/kg dry	1	10/11/18 15:33

SW 846 8081B - Pesticides

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Chlordane	0.0103		0.000952	0.00142	mg/kg dry	1	10/11/18 16:51

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Dimethylphthalate	0.0632	J	0.00901	0.145	mg/kg dry	1	10/11/18 15:57

8100452-13 (Soil) Sample Name: **STP-5**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed

Positive Results Only Summary

8100452-13 (Soil) Sample Name: **STP-5**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	6860		0.0617	2.87	mg/kg dry	1	10/11/18 15:37
Arsenic	3.01		0.0138	1.44	mg/kg dry	1	10/11/18 15:37
Barium	23.0		0.00111	0.574	mg/kg dry	1	10/11/18 15:37
Beryllium	0.256		0.000104	0.0287	mg/kg dry	1	10/11/18 15:37
Calcium	310		0.326	28.7	mg/kg dry	1	10/11/18 15:37
Chromium	8.30		0.00103	0.287	mg/kg dry	1	10/11/18 15:37
Cobalt	4.74		0.00125	0.230	mg/kg dry	1	10/11/18 15:37
Copper	9.68		0.00124	0.287	mg/kg dry	1	10/11/18 15:37
Iron	15100		0.130	5.74	mg/kg dry	1	10/11/18 15:37
Lead	5.25		0.00599	1.44	mg/kg dry	1	10/11/18 15:37
Magnesium	1150		0.836	57.4	mg/kg dry	1	10/11/18 15:37
Manganese	333		0.000711	0.287	mg/kg dry	1	10/11/18 15:37
Nickel	7.29		0.00198	0.144	mg/kg dry	1	10/11/18 15:37
Potassium	241		2.70	115	mg/kg dry	1	10/11/18 15:37
Vanadium	17.3		0.00995	0.574	mg/kg dry	1	10/11/18 15:37
Zinc	39.9		0.00264	0.861	mg/kg dry	1	10/11/18 15:37

8100452-14 (Soil) Sample Name: **STP-7**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	4650		0.0545	2.54	mg/kg dry	1	10/11/18 15:39
Arsenic	1.49		0.0122	1.27	mg/kg dry	1	10/11/18 15:39
Barium	18.5		0.000979	0.508	mg/kg dry	1	10/11/18 15:39
Beryllium	0.178		0.0000916	0.0254	mg/kg dry	1	10/11/18 15:39
Calcium	294		0.288	25.4	mg/kg dry	1	10/11/18 15:39
Chromium	6.14		0.000913	0.254	mg/kg dry	1	10/11/18 15:39
Cobalt	2.97		0.00111	0.203	mg/kg dry	1	10/11/18 15:39
Copper	6.73		0.00110	0.254	mg/kg dry	1	10/11/18 15:39
Iron	9110		0.115	5.08	mg/kg dry	1	10/11/18 15:39
Lead	4.31		0.00530	1.27	mg/kg dry	1	10/11/18 15:39
Magnesium	910		0.739	50.8	mg/kg dry	1	10/11/18 15:39
Manganese	240		0.000628	0.254	mg/kg dry	1	10/11/18 15:39
Nickel	5.05		0.00175	0.127	mg/kg dry	1	10/11/18 15:39
Potassium	210		2.39	102	mg/kg dry	1	10/11/18 15:39
Sodium	52.0		0.139	50.8	mg/kg dry	1	10/11/18 15:39
Vanadium	11.8		0.00879	0.508	mg/kg dry	1	10/11/18 15:39
Zinc	24.1		0.00233	0.761	mg/kg dry	1	10/11/18 15:39

SW 846 8081B - Pesticides

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
4,4'-DDT [2C]	0.00928		0.000586	0.00140	mg/kg dry	1	10/11/18 17:14

Positive Results Only Summary

8100452-14 (Soil) Sample Name: **STP-7**

SW 846 8081B - Pesticides (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Chlordane	0.0136		0.000939	0.00140	mg/kg dry	1	10/11/18 17:14

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-01 (Soil) Sample Name: **NTP-1A** Collected: **10/10/2018 12:00:00AM**

SW 846 8082A - PCBs

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aroclor-1016	ND	U	0.000654	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1221	ND	U	0.00113	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1232	ND	U	0.000864	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1242	ND	U	0.00125	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1248	ND	U	0.000861	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1254	ND	U	0.00131	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1260	ND	U	0.000968	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1262	ND	U	0.00142	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1268	ND	U	0.000742	0.0367	mg/kg	1	10/11/18 14:00
Total PCBs	ND	U	0.000654	0.0367	mg/kg	1	10/11/18 14:00

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	**62.8**		**11.1**	**22.2**	**mg/kg**	**1**	**10/11/18 12:51**

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0267	0.0544	mg/kg	1	10/11/18 12:17

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**3290**		**0.0603**	**2.81**	**mg/kg**	**1**	**10/11/18 14:32**
Antimony	ND		0.00593	1.40	mg/kg	1	10/11/18 14:32
Arsenic	ND		0.0135	1.40	mg/kg	1	10/11/18 14:32
Barium	**18.6**		**0.00108**	**0.562**	**mg/kg**	**1**	**10/11/18 14:32**
Beryllium	**0.138**		**0.000101**	**0.0281**	**mg/kg**	**1**	**10/11/18 14:32**
Cadmium	ND		0.000957	0.281	mg/kg	1	10/11/18 14:32
Calcium	**938**		**0.319**	**28.1**	**mg/kg**	**1**	**10/11/18 14:32**
Chromium	**5.14**		**0.00101**	**0.281**	**mg/kg**	**1**	**10/11/18 14:32**
Cobalt	**2.31**		**0.00122**	**0.225**	**mg/kg**	**1**	**10/11/18 14:32**
Copper	**8.71**		**0.00121**	**0.281**	**mg/kg**	**1**	**10/11/18 14:32**
Iron	**7190**		**0.127**	**5.62**	**mg/kg**	**1**	**10/11/18 14:32**
Lead	**23.8**		**0.00586**	**1.40**	**mg/kg**	**1**	**10/11/18 14:32**
Magnesium	**763**		**0.818**	**56.2**	**mg/kg**	**1**	**10/11/18 14:32**
Manganese	**125**		**0.000695**	**0.281**	**mg/kg**	**1**	**10/11/18 14:32**
Nickel	**4.33**		**0.00193**	**0.140**	**mg/kg**	**1**	**10/11/18 14:32**
Potassium	**212**		**2.64**	**112**	**mg/kg**	**1**	**10/11/18 14:32**
Selenium	ND		0.0121	1.40	mg/kg	1	10/11/18 14:32
Silver	ND		0.00335	0.562	mg/kg	1	10/11/18 14:32

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-01 (Soil) Sample Name: **NTP-1A** Collected: **10/10/2018 12:00:00AM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sodium	**107**		**0.154**	**56.2**	**mg/kg**	**1**	**10/11/18 14:32**
Thallium	ND		0.00779	1.40	mg/kg	1	10/11/18 14:32
Vanadium	**9.94**		**0.00973**	**0.562**	**mg/kg**	**1**	**10/11/18 14:32**
Zinc	**22.8**		**0.00258**	**0.843**	**mg/kg**	**1**	**10/11/18 14:32**

SW 846 8081B - Pesticides

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
4,4'-DDD	ND	U	0.000875	0.00145	mg/kg	1	10/11/18 16:06
4,4'-DDE	ND	U	0.00102	0.00145	mg/kg	1	10/11/18 16:06
4,4'-DDT	ND	U	0.000694	0.00145	mg/kg	1	10/11/18 16:06
Aldrin	ND	U	0.000898	0.00145	mg/kg	1	10/11/18 16:06
alpha-BHC	ND	U	0.000559	0.00145	mg/kg	1	10/11/18 16:06
beta-BHC	ND	U	0.00142	0.00145	mg/kg	1	10/11/18 16:06
Chlordane	ND	U	0.000971	0.00145	mg/kg	1	10/11/18 16:06
delta-BHC	ND	U	0.00112	0.00145	mg/kg	1	10/11/18 16:06
Dieldrin	ND	U	0.000779	0.00145	mg/kg	1	10/11/18 16:06
Endosulfan I	ND	U	0.00100	0.00145	mg/kg	1	10/11/18 16:06
Endosulfan II	ND	U	0.000786	0.00145	mg/kg	1	10/11/18 16:06
Endosulfan sulfate	ND	U	0.000786	0.00145	mg/kg	1	10/11/18 16:06
Endrin	ND	U	0.000742	0.00145	mg/kg	1	10/11/18 16:06
Endrin aldehyde	ND	U	0.000617	0.00145	mg/kg	1	10/11/18 16:06
Endrin ketone	ND	U	0.000882	0.00145	mg/kg	1	10/11/18 16:06
gamma-BHC (Lindane)	ND	U	0.000661	0.00145	mg/kg	1	10/11/18 16:06
Heptachlor	ND	U	0.000845	0.00145	mg/kg	1	10/11/18 16:06
Heptachlor Epoxide	ND	U	0.000904	0.00145	mg/kg	1	10/11/18 16:06
Methoxychlor	ND	U	0.000920	0.00145	mg/kg	1	10/11/18 16:06
Toxaphene	ND	U	0.0225	0.0734	mg/kg	1	10/11/18 16:06

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.0355	0.222	mg/kg	1	10/11/18 14:10
2,3,4,6-Tetrachlorophenol	ND	U	0.0228	0.148	mg/kg	1	10/11/18 14:10
2,4,5-Trichlorophenol	ND	U	0.0201	0.148	mg/kg	1	10/11/18 14:10
2,4,6-Trichlorophenol	ND	U	0.00927	0.148	mg/kg	1	10/11/18 14:10
2,4-Dichlorophenol	ND	U	0.0149	0.148	mg/kg	1	10/11/18 14:10
2,4-Dimethylphenol	ND	U	0.0146	0.148	mg/kg	1	10/11/18 14:10
2,4-Dinitrophenol	ND	U	0.0214	0.742	mg/kg	1	10/11/18 14:10
2,4-Dinitrotoluene	ND	U	0.0158	0.148	mg/kg	1	10/11/18 14:10
2,6-Dinitrotoluene	ND	U	0.0354	0.148	mg/kg	1	10/11/18 14:10

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-01 (Soil) Sample Name: **NTP-1A** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
2-Chloronaphthalene	ND	U	0.0170	0.148	mg/kg	1	10/11/18 14:10
2-Chlorophenol	ND	U	0.0196	0.148	mg/kg	1	10/11/18 14:10
2-Methylnaphthalene	ND	U	0.0355	0.222	mg/kg	1	10/11/18 14:10
2-Methylphenol	ND	U	0.0293	0.148	mg/kg	1	10/11/18 14:10
2-Nitroaniline	ND	U	0.0119	0.148	mg/kg	1	10/11/18 14:10
2-Nitrophenol	ND	U	0.0165	0.148	mg/kg	1	10/11/18 14:10
3,3'-Dichlorobenzidine	ND	U	0.0156	0.148	mg/kg	1	10/11/18 14:10
3+4-Methylphenol	ND	U	0.0271	0.148	mg/kg	1	10/11/18 14:10
3-Nitroaniline	ND	U	0.0275	0.148	mg/kg	1	10/11/18 14:10
4,6-Dinitro-2-methylphenol	ND	U	0.0279	0.370	mg/kg	1	10/11/18 14:10
4-Bromophenyl-phenyl ether	ND	U	0.0211	0.148	mg/kg	1	10/11/18 14:10
4-Chloro-3-methylphenol	ND	U	0.0234	0.148	mg/kg	1	10/11/18 14:10
4-Chloroaniline	ND	U	0.00518	0.148	mg/kg	1	10/11/18 14:10
4-Chlorophenyl phenyl ether	ND	U	0.00800	0.148	mg/kg	1	10/11/18 14:10
4-Nitroaniline	ND	U	0.0741	0.148	mg/kg	1	10/11/18 14:10
4-Nitrophenol	ND	U	0.00948	0.148	mg/kg	1	10/11/18 14:10
Acenaphthene	ND	U	0.00844	0.148	mg/kg	1	10/11/18 14:10
Acenaphthylene	ND	U	0.00515	0.148	mg/kg	1	10/11/18 14:10
Acetophenone	ND	U	0.0147	0.148	mg/kg	1	10/11/18 14:10
Anthracene	ND	U	0.0215	0.148	mg/kg	1	10/11/18 14:10
Atrazine	ND	U	0.0139	0.148	mg/kg	1	10/11/18 14:10
Benzaldehyde	ND	U	0.0455	0.148	mg/kg	1	10/11/18 14:10
Benzo(a)anthracene	**0.0995**	**J**	**0.0149**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Benzo(a)pyrene	**0.0887**	**J**	**0.0258**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Benzo(b)fluoranthene	**0.107**	**J**	**0.0208**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Benzo(g,h,i)perylene	**0.0702**	**J**	**0.0120**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Benzo(k)fluoranthene	**0.0788**	**J**	**0.0170**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Biphenyl	ND	U	0.0130	0.148	mg/kg	1	10/11/18 14:10
bis(2-chloroethoxy)methane	ND	U	0.0205	0.148	mg/kg	1	10/11/18 14:10
bis(2-chloroethyl)ether	ND	U	0.0162	0.148	mg/kg	1	10/11/18 14:10
bis(2-chloroisopropyl)ether	ND	U	0.0533	0.148	mg/kg	1	10/11/18 14:10
bis(2-ethylhexyl)phthalate	ND	U	0.0296	0.148	mg/kg	1	10/11/18 14:10
Butylbenzylphthalate	ND	U	0.0135	0.148	mg/kg	1	10/11/18 14:10
Caprolactam	ND	U	0.0191	0.148	mg/kg	1	10/11/18 14:10
Carbazole	ND	U	0.0285	0.370	mg/kg	1	10/11/18 14:10
Chrysene	**0.0909**	**J**	**0.0101**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Dibenzo(a,h)anthracene	ND	U	0.0147	0.148	mg/kg	1	10/11/18 14:10
Dibenzofuran	ND	U	0.00882	0.148	mg/kg	1	10/11/18 14:10
Diethylphthalate	ND	U	0.0287	0.148	mg/kg	1	10/11/18 14:10

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-01 (Soil) Sample Name: **NTP-1A** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Dimethylphthalate	ND	U	0.00919	0.148	mg/kg	1	10/11/18 14:10
Di-n-butylphthalate	ND	U	0.0605	0.148	mg/kg	1	10/11/18 14:10
Di-n-octylphthalate	ND	U	0.0304	0.148	mg/kg	1	10/11/18 14:10
Fluoranthene	**0.167**		**0.0139**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Fluorene	ND	U	0.0123	0.148	mg/kg	1	10/11/18 14:10
Hexachlorobenzene	ND	U	0.0194	0.148	mg/kg	1	10/11/18 14:10
Hexachlorobutadiene	ND	U	0.0711	0.148	mg/kg	1	10/11/18 14:10
Hexachlorocyclopentadiene	ND	U	0.0617	0.370	mg/kg	1	10/11/18 14:10
Hexachloroethane	ND	U	0.0162	0.148	mg/kg	1	10/11/18 14:10
Indeno(1,2,3-cd)pyrene	**0.0610**	**J**	**0.0159**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Isophorone	ND	U	0.00970	0.148	mg/kg	1	10/11/18 14:10
Naphthalene	ND	U	0.0110	0.148	mg/kg	1	10/11/18 14:10
Nitrobenzene	ND	U	0.0251	0.148	mg/kg	1	10/11/18 14:10
n-Nitroso-di-n-propylamine	ND	U	0.00793	0.148	mg/kg	1	10/11/18 14:10
n-Nitrosodiphenylamine	ND	U	0.0316	0.148	mg/kg	1	10/11/18 14:10
Phenanthrene	**0.126**	**J**	**0.0195**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Phenol	ND	U	0.0120	0.148	mg/kg	1	10/11/18 14:10
Pyrene	**0.158**		**0.0109**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed

No TICs Found

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000178	0.00122	mg/kg	1	10/10/18 18:59
1,1,2,2-Tetrachloroethane	ND	U	0.000169	0.00122	mg/kg	1	10/10/18 18:59
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000523	0.00122	mg/kg	1	10/10/18 18:59
1,1,2-Trichloroethane	ND	U	0.000206	0.00122	mg/kg	1	10/10/18 18:59
1,1-Dichloroethane	ND	U	0.000178	0.00122	mg/kg	1	10/10/18 18:59
1,1-Dichloroethene	ND	U	0.000226	0.00122	mg/kg	1	10/10/18 18:59
1,2,3-Trichlorobenzene	ND	U	0.000264	0.00122	mg/kg	1	10/10/18 18:59
1,2,4-Trichlorobenzene	ND	U	0.000326	0.00122	mg/kg	1	10/10/18 18:59
1,2,4-Trimethylbenzene	ND	U	0.000169	0.00122	mg/kg	1	10/10/18 18:59
1,2-Dibromo-3-chloropropane	ND	U	0.000298	0.00122	mg/kg	1	10/10/18 18:59
1,2-Dibromoethane	ND	U	0.000154	0.00122	mg/kg	1	10/10/18 18:59
1,2-Dichlorobenzene	ND	U	0.000216	0.00122	mg/kg	1	10/10/18 18:59
1,2-Dichloroethane	ND	U	0.000172	0.00122	mg/kg	1	10/10/18 18:59

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-01 (Soil) Sample Name: **NTP-1A** Collected: **10/10/2018 12:00:00AM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,2-Dichloropropane	ND	U	0.000200	0.00122	mg/kg	1	10/10/18 18:59
1,3-Dichlorobenzene	ND	U	0.0000898	0.00122	mg/kg	1	10/10/18 18:59
1,4-Dichlorobenzene	ND	U	0.000176	0.00122	mg/kg	1	10/10/18 18:59
2-Butanone	ND	U	0.000199	0.00306	mg/kg	1	10/10/18 18:59
2-Hexanone	ND	U	0.000114	0.00122	mg/kg	1	10/10/18 18:59
4-Methyl-2-pentanone	ND	U	0.000153	0.00122	mg/kg	1	10/10/18 18:59
Acetone	ND	U	0.000370	0.00306	mg/kg	1	10/10/18 18:59
Benzene	ND	U	0.000111	0.00122	mg/kg	1	10/10/18 18:59
Bromochloromethane	ND	U	0.000226	0.00122	mg/kg	1	10/10/18 18:59
Bromodichloromethane	ND	U	0.000153	0.00122	mg/kg	1	10/10/18 18:59
Bromoform	ND	U	0.000215	0.00122	mg/kg	1	10/10/18 18:59
Bromomethane	ND	U	0.000353	0.00122	mg/kg	1	10/10/18 18:59
Carbon disulfide	ND	U	0.000175	0.00122	mg/kg	1	10/10/18 18:59
Carbon Tetrachloride	ND	U	0.000184	0.00122	mg/kg	1	10/10/18 18:59
Chlorobenzene	ND	U	0.000177	0.00122	mg/kg	1	10/10/18 18:59
Chlorodibromomethane	ND	U	0.000150	0.00122	mg/kg	1	10/10/18 18:59
Chloroethane	ND	U	0.000208	0.00122	mg/kg	1	10/10/18 18:59
Chloroform	ND	U	0.000205	0.00122	mg/kg	1	10/10/18 18:59
Chloromethane	ND	U	0.000471	0.00122	mg/kg	1	10/10/18 18:59
cis-1,2-Dichloroethene	ND	U	0.0000591	0.00122	mg/kg	1	10/10/18 18:59
cis-1,3-Dichloropropene	ND	U	0.000155	0.00122	mg/kg	1	10/10/18 18:59
Cyclohexane	ND	U	0.000271	0.00122	mg/kg	1	10/10/18 18:59
Dichlorodifluoromethane	ND	U	0.000413	0.00122	mg/kg	1	10/10/18 18:59
EthylBenzene	ND	U	0.000166	0.00122	mg/kg	1	10/10/18 18:59
Isopropylbenzene	ND	U	0.000192	0.00122	mg/kg	1	10/10/18 18:59
m+p-Xylenes	ND	U	0.000309	0.00244	mg/kg	1	10/10/18 18:59
Methyl Acetate	ND	U	0.000162	0.00122	mg/kg	1	10/10/18 18:59
Methyl tert-Butyl Ether	ND	U	0.000207	0.00122	mg/kg	1	10/10/18 18:59
Methylcyclohexane	ND	U	0.000197	0.00122	mg/kg	1	10/10/18 18:59
Methylene Chloride	ND	U	0.000367	0.00122	mg/kg	1	10/10/18 18:59
o-Xylene	ND	U	0.000157	0.00122	mg/kg	1	10/10/18 18:59
Styrene	ND	U	0.000175	0.00122	mg/kg	1	10/10/18 18:59
tert-Butyl alcohol	ND	U	0.00257	0.0122	mg/kg	1	10/10/18 18:59
Tetrachloroethene	**0.00329**		**0.000121**	**0.00122**	**mg/kg**	**1**	**10/10/18 18:59**
Toluene	ND	U	0.0000984	0.00122	mg/kg	1	10/10/18 18:59
Total Xylenes	ND	U	0.000157	0.00122	mg/kg	1	10/10/18 18:59
trans-1,2-Dichloroethene	ND	U	0.000166	0.00122	mg/kg	1	10/10/18 18:59
trans-1,3-Dichloropropene	ND	U	0.000233	0.00122	mg/kg	1	10/10/18 18:59
Trichloroethene	ND	U	0.000180	0.00122	mg/kg	1	10/10/18 18:59

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-01 (Soil) Sample Name: NTP-1A Collected: 10/10/2018 12:00:00AM

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Trichlorofluoromethane	ND	U	0.000141	0.00122	mg/kg	1	10/10/18 18:59
Vinyl chloride	ND	U	0.000232	0.00122	mg/kg	1	10/10/18 18:59

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**89.9**				**%**	**1**	**10/11/18 10:54**

SW 846 9014 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Cyanide	ND		0.0834	0.278	mg/kg	1	10/11/18 13:30

8100452-02 (Soil) Sample Name: NTP-2A Collected: 10/10/2018 12:00:00AM

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	**97.5**		**10.8**	**21.6**	**mg/kg**	**1**	**10/11/18 13:27**

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0228	0.0465	mg/kg	1	10/11/18 12:20

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**3800**		**0.0563**	**2.62**	**mg/kg**	**1**	**10/11/18 14:34**
Antimony	ND		0.00554	1.31	mg/kg	1	10/11/18 14:34
Arsenic	ND		0.0126	1.31	mg/kg	1	10/11/18 14:34
Barium	**21.4**		**0.00101**	**0.525**	**mg/kg**	**1**	**10/11/18 14:34**
Beryllium	**0.160**		**0.0000946**	**0.0262**	**mg/kg**	**1**	**10/11/18 14:34**
Cadmium	ND		0.000894	0.262	mg/kg	1	10/11/18 14:34
Calcium	**1260**		**0.298**	**26.2**	**mg/kg**	**1**	**10/11/18 14:34**
Chromium	**6.19**		**0.000943**	**0.262**	**mg/kg**	**1**	**10/11/18 14:34**
Cobalt	**2.83**		**0.00114**	**0.210**	**mg/kg**	**1**	**10/11/18 14:34**
Copper	**10.4**		**0.00113**	**0.262**	**mg/kg**	**1**	**10/11/18 14:34**
Iron	**8240**		**0.119**	**5.25**	**mg/kg**	**1**	**10/11/18 14:34**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-02 (Soil) Sample Name: **NTP-2A** Collected: **10/10/2018 12:00:00AM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Lead	**26.2**		**0.00548**	**1.31**	**mg/kg**	**1**	**10/11/18 14:34**
Magnesium	**952**		**0.764**	**52.5**	**mg/kg**	**1**	**10/11/18 14:34**
Manganese	**144**		**0.000649**	**0.262**	**mg/kg**	**1**	**10/11/18 14:34**
Nickel	**5.14**		**0.00180**	**0.131**	**mg/kg**	**1**	**10/11/18 14:34**
Potassium	**251**		**2.47**	**105**	**mg/kg**	**1**	**10/11/18 14:34**
Selenium	ND		0.0113	1.31	mg/kg	1	10/11/18 14:34
Silver	ND		0.00313	0.525	mg/kg	1	10/11/18 14:34
Sodium	**116**		**0.144**	**52.5**	**mg/kg**	**1**	**10/11/18 14:34**
Thallium	ND		0.00727	1.31	mg/kg	1	10/11/18 14:34
Vanadium	**11.2**		**0.00909**	**0.525**	**mg/kg**	**1**	**10/11/18 14:34**
Zinc	**30.2**		**0.00241**	**0.787**	**mg/kg**	**1**	**10/11/18 14:34**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.120	0.216	mg/kg	1	10/11/18 14:38
2-Methylnaphthalene	ND	U	0.0345	0.216	mg/kg	1	10/11/18 14:38
Acenaphthene	ND	U	0.00820	0.144	mg/kg	1	10/11/18 14:38
Acenaphthylene	ND	U	0.00500	0.144	mg/kg	1	10/11/18 14:38
Anthracene	ND	U	0.0209	0.144	mg/kg	1	10/11/18 14:38
Benzo(a)anthracene	**0.0754**	**J**	**0.0145**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Benzo(a)pyrene	**0.0733**	**J**	**0.0251**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Benzo(b)fluoranthene	ND	U	0.0202	0.144	mg/kg	1	10/11/18 14:38
Benzo(g,h,i)perylene	**0.0911**	**J**	**0.0117**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Benzo(k)fluoranthene	**0.106**	**J**	**0.0165**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Chrysene	**0.0911**	**J**	**0.00985**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Dibenzo(a,h)anthracene	ND	U	0.0143	0.144	mg/kg	1	10/11/18 14:38
Fluoranthene	**0.120**	**J**	**0.0135**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Fluorene	ND	U	0.0120	0.144	mg/kg	1	10/11/18 14:38
Indeno(1,2,3-cd)pyrene	ND	U	0.0155	0.144	mg/kg	1	10/11/18 14:38
Naphthalene	ND	U	0.0107	0.144	mg/kg	1	10/11/18 14:38
Phenanthrene	**0.0544**	**J**	**0.0189**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Pyrene	**0.130**	**J**	**0.0106**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000128	0.000879	mg/kg	1	10/10/18 19:28
1,1,2,2-Tetrachloroethane	ND	U	0.000121	0.000879	mg/kg	1	10/10/18 19:28
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000376	0.000879	mg/kg	1	10/10/18 19:28

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-02 (Soil) Sample Name: **NTP-2A** Collected: **10/10/2018 12:00:00AM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,2-Trichloroethane	ND	U	0.000148	0.000879	mg/kg	1	10/10/18 19:28
1,1-Dichloroethane	ND	U	0.000128	0.000879	mg/kg	1	10/10/18 19:28
1,1-Dichloroethene	ND	U	0.000163	0.000879	mg/kg	1	10/10/18 19:28
1,2,3-Trichlorobenzene	ND	U	0.000190	0.000879	mg/kg	1	10/10/18 19:28
1,2,4-Trichlorobenzene	ND	U	0.000234	0.000879	mg/kg	1	10/10/18 19:28
1,2,4-Trimethylbenzene	ND	U	0.000121	0.000879	mg/kg	1	10/10/18 19:28
1,2-Dibromo-3-chloropropane	ND	U	0.000214	0.000879	mg/kg	1	10/10/18 19:28
1,2-Dibromoethane	ND	U	0.000111	0.000879	mg/kg	1	10/10/18 19:28
1,2-Dichlorobenzene	ND	U	0.000155	0.000879	mg/kg	1	10/10/18 19:28
1,2-Dichloroethane	ND	U	0.000124	0.000879	mg/kg	1	10/10/18 19:28
1,2-Dichloropropane	ND	U	0.000144	0.000879	mg/kg	1	10/10/18 19:28
1,3-Dichlorobenzene	ND	U	0.0000646	0.000879	mg/kg	1	10/10/18 19:28
1,4-Dichlorobenzene	ND	U	0.000127	0.000879	mg/kg	1	10/10/18 19:28
2-Butanone	ND	U	0.000143	0.00220	mg/kg	1	10/10/18 19:28
2-Hexanone	ND	U	0.0000821	0.000879	mg/kg	1	10/10/18 19:28
4-Methyl-2-pentanone	ND	U	0.000110	0.000879	mg/kg	1	10/10/18 19:28
Acetone	ND	U	0.000266	0.00220	mg/kg	1	10/10/18 19:28
Benzene	ND	U	0.0000799	0.000879	mg/kg	1	10/10/18 19:28
Bromochloromethane	ND	U	0.000162	0.000879	mg/kg	1	10/10/18 19:28
Bromodichloromethane	ND	U	0.000110	0.000879	mg/kg	1	10/10/18 19:28
Bromoform	ND	U	0.000154	0.000879	mg/kg	1	10/10/18 19:28
Bromomethane	ND	U	0.000253	0.000879	mg/kg	1	10/10/18 19:28
Carbon disulfide	ND	U	0.000126	0.000879	mg/kg	1	10/10/18 19:28
Carbon Tetrachloride	ND	U	0.000132	0.000879	mg/kg	1	10/10/18 19:28
Chlorobenzene	ND	U	0.000127	0.000879	mg/kg	1	10/10/18 19:28
Chlorodibromomethane	ND	U	0.000108	0.000879	mg/kg	1	10/10/18 19:28
Chloroethane	ND	U	0.000150	0.000879	mg/kg	1	10/10/18 19:28
Chloroform	ND	U	0.000148	0.000879	mg/kg	1	10/10/18 19:28
Chloromethane	ND	U	0.000338	0.000879	mg/kg	1	10/10/18 19:28
cis-1,2-Dichloroethene	ND	U	0.0000425	0.000879	mg/kg	1	10/10/18 19:28
cis-1,3-Dichloropropene	ND	U	0.000111	0.000879	mg/kg	1	10/10/18 19:28
Cyclohexane	ND	U	0.000195	0.000879	mg/kg	1	10/10/18 19:28
Dichlorodifluoromethane	ND	U	0.000297	0.000879	mg/kg	1	10/10/18 19:28
EthylBenzene	ND	U	0.000119	0.000879	mg/kg	1	10/10/18 19:28
Isopropylbenzene	ND	U	0.000138	0.000879	mg/kg	1	10/10/18 19:28
m+p-Xylenes	ND	U	0.000222	0.00176	mg/kg	1	10/10/18 19:28
Methyl Acetate	ND	U	0.000116	0.000879	mg/kg	1	10/10/18 19:28
Methyl tert-Butyl Ether	ND	U	0.000148	0.000879	mg/kg	1	10/10/18 19:28
Methylcyclohexane	ND	U	0.000141	0.000879	mg/kg	1	10/10/18 19:28

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-02 (Soil) Sample Name: NTP-2A Collected: 10/10/2018 12:00:00AM

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Methylene Chloride	ND	U	0.000264	0.000879	mg/kg	1	10/10/18 19:28
o-Xylene	ND	U	0.000113	0.000879	mg/kg	1	10/10/18 19:28
Styrene	ND	U	0.000126	0.000879	mg/kg	1	10/10/18 19:28
tert-Butyl alcohol	ND	U	0.00184	0.00879	mg/kg	1	10/10/18 19:28
Tetrachloroethene	**0.00240**		**0.0000870**	**0.000879**	**mg/kg**	**1**	**10/10/18 19:28**
Toluene	ND	U	0.0000707	0.000879	mg/kg	1	10/10/18 19:28
Total Xylenes	ND	U	0.000113	0.000879	mg/kg	1	10/10/18 19:28
trans-1,2-Dichloroethene	ND	U	0.000119	0.000879	mg/kg	1	10/10/18 19:28
trans-1,3-Dichloropropene	ND	U	0.000168	0.000879	mg/kg	1	10/10/18 19:28
Trichloroethene	ND	U	0.000129	0.000879	mg/kg	1	10/10/18 19:28
Trichlorofluoromethane	ND	U	0.000101	0.000879	mg/kg	1	10/10/18 19:28
Vinyl chloride	ND	U	0.000167	0.000879	mg/kg	1	10/10/18 19:28

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**92.5**				**%**	**1**	**10/11/18 10:54**

8100452-03 (Soil) Sample Name: NTP-2B Collected: 10/10/2018 12:00:00AM

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	**38.1**		**10.8**	**21.7**	**mg/kg**	**1**	**10/11/18 14:02**

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0250	0.0510	mg/kg	1	10/11/18 12:24

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**3620**		**0.0549**	**2.56**	**mg/kg**	**1**	**10/11/18 14:36**
Antimony	ND		0.00540	1.28	mg/kg	1	10/11/18 14:36
Arsenic	ND		0.0123	1.28	mg/kg	1	10/11/18 14:36
Barium	**17.9**		**0.000986**	**0.511**	**mg/kg**	**1**	**10/11/18 14:36**
Beryllium	**0.184**		**0.0000922**	**0.0256**	**mg/kg**	**1**	**10/11/18 14:36**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-03 (Soil) Sample Name: **NTP-2B** Collected: **10/10/2018 12:00:00AM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Cadmium	ND		0.000871	0.256	mg/kg	1	10/11/18 14:36
Calcium	**1100**		**0.290**	**25.6**	**mg/kg**	**1**	**10/11/18 14:36**
Chromium	**5.98**		**0.000919**	**0.256**	**mg/kg**	**1**	**10/11/18 14:36**
Cobalt	**2.49**		**0.00111**	**0.205**	**mg/kg**	**1**	**10/11/18 14:36**
Copper	**9.46**		**0.00110**	**0.256**	**mg/kg**	**1**	**10/11/18 14:36**
Iron	**8490**		**0.116**	**5.11**	**mg/kg**	**1**	**10/11/18 14:36**
Lead	**19.0**		**0.00534**	**1.28**	**mg/kg**	**1**	**10/11/18 14:36**
Magnesium	**885**		**0.744**	**51.1**	**mg/kg**	**1**	**10/11/18 14:36**
Manganese	**139**		**0.000633**	**0.256**	**mg/kg**	**1**	**10/11/18 14:36**
Nickel	**5.09**		**0.00176**	**0.128**	**mg/kg**	**1**	**10/11/18 14:36**
Potassium	**233**		**2.40**	**102**	**mg/kg**	**1**	**10/11/18 14:36**
Selenium	ND		0.0110	1.28	mg/kg	1	10/11/18 14:36
Silver	ND		0.00305	0.511	mg/kg	1	10/11/18 14:36
Sodium	**93.8**		**0.140**	**51.1**	**mg/kg**	**1**	**10/11/18 14:36**
Thallium	ND		0.00709	1.28	mg/kg	1	10/11/18 14:36
Vanadium	**12.0**		**0.00886**	**0.511**	**mg/kg**	**1**	**10/11/18 14:36**
Zinc	**24.5**		**0.00235**	**0.767**	**mg/kg**	**1**	**10/11/18 14:36**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.120	0.217	mg/kg	1	10/11/18 15:07
2-Methylnaphthalene	ND	U	0.0346	0.217	mg/kg	1	10/11/18 15:07
Acenaphthene	ND	U	0.00823	0.144	mg/kg	1	10/11/18 15:07
Acenaphthylene	ND	U	0.00502	0.144	mg/kg	1	10/11/18 15:07
Anthracene	ND	U	0.0209	0.144	mg/kg	1	10/11/18 15:07
Benzo(a)anthracene	**0.0876**	**J**	**0.0145**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Benzo(a)pyrene	**0.0814**	**J**	**0.0251**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Benzo(b)fluoranthene	**0.0987**	**J**	**0.0203**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Benzo(g,h,i)perylene	**0.0663**	**J**	**0.0117**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Benzo(k)fluoranthene	**0.0460**	**J**	**0.0166**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Chrysene	**0.0730**	**J**	**0.00989**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Dibenzo(a,h)anthracene	ND	U	0.0143	0.144	mg/kg	1	10/11/18 15:07
Fluoranthene	**0.153**		**0.0135**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Fluorene	ND	U	0.0120	0.144	mg/kg	1	10/11/18 15:07
Indeno(1,2,3-cd)pyrene	ND	U	0.0155	0.144	mg/kg	1	10/11/18 15:07
Naphthalene	ND	U	0.0107	0.144	mg/kg	1	10/11/18 15:07
Phenanthrene	**0.114**	**J**	**0.0190**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Pyrene	**0.137**	**J**	**0.0106**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

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All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-03 (Soil) Sample Name: **NTP-2B** Collected: **10/10/2018 12:00:00AM**

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**92.3**				**%**	**1**	**10/11/18 10:54**

8100452-04 (Soil) Sample Name: **NTP-3B** Collected: **10/10/2018 12:00:00AM**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.9	21.9	mg/kg	1	10/11/18 14:37

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0244	0.0497	mg/kg	1	10/11/18 12:27

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**4300**		**0.0571**	**2.66**	**mg/kg**	**1**	**10/11/18 14:38**
Antimony	ND		0.00561	1.33	mg/kg	1	10/11/18 14:38
Arsenic	ND		0.0128	1.33	mg/kg	1	10/11/18 14:38
Barium	**24.3**		**0.00102**	**0.532**	**mg/kg**	**1**	**10/11/18 14:38**
Beryllium	**0.181**		**0.0000959**	**0.0266**	**mg/kg**	**1**	**10/11/18 14:38**
Cadmium	ND		0.000906	0.266	mg/kg	1	10/11/18 14:38
Calcium	**619**		**0.302**	**26.6**	**mg/kg**	**1**	**10/11/18 14:38**
Chromium	**7.12**		**0.000956**	**0.266**	**mg/kg**	**1**	**10/11/18 14:38**
Cobalt	**3.03**		**0.00116**	**0.213**	**mg/kg**	**1**	**10/11/18 14:38**
Copper	**7.89**		**0.00115**	**0.266**	**mg/kg**	**1**	**10/11/18 14:38**
Iron	**9220**		**0.120**	**5.32**	**mg/kg**	**1**	**10/11/18 14:38**
Lead	**6.72**		**0.00555**	**1.33**	**mg/kg**	**1**	**10/11/18 14:38**
Magnesium	**946**		**0.774**	**53.2**	**mg/kg**	**1**	**10/11/18 14:38**
Manganese	**165**		**0.000658**	**0.266**	**mg/kg**	**1**	**10/11/18 14:38**
Nickel	**5.13**		**0.00183**	**0.133**	**mg/kg**	**1**	**10/11/18 14:38**
Potassium	**252**		**2.50**	**106**	**mg/kg**	**1**	**10/11/18 14:38**
Selenium	ND		0.0115	1.33	mg/kg	1	10/11/18 14:38
Silver	ND		0.00317	0.532	mg/kg	1	10/11/18 14:38
Sodium	**136**		**0.146**	**53.2**	**mg/kg**	**1**	**10/11/18 14:38**
Thallium	ND		0.00737	1.33	mg/kg	1	10/11/18 14:38
Vanadium	**13.4**		**0.00921**	**0.532**	**mg/kg**	**1**	**10/11/18 14:38**
Zinc	**20.3**		**0.00245**	**0.797**	**mg/kg**	**1**	**10/11/18 14:38**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-04 (Soil) Sample Name: **NTP-3B** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.122	0.219	mg/kg	1	10/11/18 15:35
2-Methylnaphthalene	ND	U	0.0349	0.219	mg/kg	1	10/11/18 15:35
Acenaphthene	ND	U	0.00831	0.146	mg/kg	1	10/11/18 15:35
Acenaphthylene	ND	U	0.00507	0.146	mg/kg	1	10/11/18 15:35
Anthracene	ND	U	0.0211	0.146	mg/kg	1	10/11/18 15:35
Benzo(a)anthracene	ND	U	0.0147	0.146	mg/kg	1	10/11/18 15:35
Benzo(a)pyrene	ND	U	0.0254	0.146	mg/kg	1	10/11/18 15:35
Benzo(b)fluoranthene	ND	U	0.0205	0.146	mg/kg	1	10/11/18 15:35
Benzo(g,h,i)perylene	ND	U	0.0118	0.146	mg/kg	1	10/11/18 15:35
Benzo(k)fluoranthene	ND	U	0.0168	0.146	mg/kg	1	10/11/18 15:35
Chrysene	ND	U	0.00999	0.146	mg/kg	1	10/11/18 15:35
Dibenzo(a,h)anthracene	ND	U	0.0145	0.146	mg/kg	1	10/11/18 15:35
Fluoranthene	ND	U	0.0137	0.146	mg/kg	1	10/11/18 15:35
Fluorene	ND	U	0.0122	0.146	mg/kg	1	10/11/18 15:35
Indeno(1,2,3-cd)pyrene	ND	U	0.0157	0.146	mg/kg	1	10/11/18 15:35
Naphthalene	ND	U	0.0108	0.146	mg/kg	1	10/11/18 15:35
Phenanthrene	ND	U	0.0192	0.146	mg/kg	1	10/11/18 15:35
Pyrene	ND	U	0.0107	0.146	mg/kg	1	10/11/18 15:35

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**91.3**				**%**	**1**	**10/11/18 10:54**

8100452-05 (Soil) Sample Name: **NTP-4B** Collected: **10/10/2018 12:35:00PM**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.9	21.7	mg/kg	1	10/11/18 15:25

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0246	0.0502	mg/kg	1	10/11/18 12:40

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-05 (Soil) Sample Name: **NTP-4B** Collected: **10/10/2018 12:35:00PM**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**5500**		**0.0614**	**2.86**	**mg/kg**	**1**	**10/11/18 14:40**
Antimony	ND		0.00604	1.43	mg/kg	1	10/11/18 14:40
Arsenic	ND		0.0137	1.43	mg/kg	1	10/11/18 14:40
Barium	**31.8**		**0.00110**	**0.572**	**mg/kg**	**1**	**10/11/18 14:40**
Beryllium	**0.203**		**0.000103**	**0.0286**	**mg/kg**	**1**	**10/11/18 14:40**
Cadmium	ND		0.000975	0.286	mg/kg	1	10/11/18 14:40
Calcium	**933**		**0.325**	**28.6**	**mg/kg**	**1**	**10/11/18 14:40**
Chromium	**11.2**		**0.00103**	**0.286**	**mg/kg**	**1**	**10/11/18 14:40**
Cobalt	**4.83**		**0.00125**	**0.229**	**mg/kg**	**1**	**10/11/18 14:40**
Copper	**9.21**		**0.00124**	**0.286**	**mg/kg**	**1**	**10/11/18 14:40**
Iron	**12100**		**0.129**	**5.72**	**mg/kg**	**1**	**10/11/18 14:40**
Lead	**5.21**		**0.00597**	**1.43**	**mg/kg**	**1**	**10/11/18 14:40**
Magnesium	**1750**		**0.833**	**57.2**	**mg/kg**	**1**	**10/11/18 14:40**
Manganese	**229**		**0.000708**	**0.286**	**mg/kg**	**1**	**10/11/18 14:40**
Nickel	**7.75**		**0.00197**	**0.143**	**mg/kg**	**1**	**10/11/18 14:40**
Potassium	**261**		**2.69**	**114**	**mg/kg**	**1**	**10/11/18 14:40**
Selenium	ND		0.0124	1.43	mg/kg	1	10/11/18 14:40
Silver	ND		0.00341	0.572	mg/kg	1	10/11/18 14:40
Sodium	**335**		**0.157**	**57.2**	**mg/kg**	**1**	**10/11/18 14:40**
Thallium	ND		0.00793	1.43	mg/kg	1	10/11/18 14:40
Vanadium	**18.9**		**0.00991**	**0.572**	**mg/kg**	**1**	**10/11/18 14:40**
Zinc	**17.6**		**0.00263**	**0.858**	**mg/kg**	**1**	**10/11/18 14:40**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.121	0.217	mg/kg	1	10/11/18 16:04
2-Methylnaphthalene	ND	U	0.0347	0.217	mg/kg	1	10/11/18 16:04
Acenaphthene	ND	U	0.00825	0.145	mg/kg	1	10/11/18 16:04
Acenaphthylene	ND	U	0.00503	0.145	mg/kg	1	10/11/18 16:04
Anthracene	ND	U	0.0210	0.145	mg/kg	1	10/11/18 16:04
Benzo(a)anthracene	ND	U	0.0146	0.145	mg/kg	1	10/11/18 16:04
Benzo(a)pyrene	ND	U	0.0252	0.145	mg/kg	1	10/11/18 16:04
Benzo(b)fluoranthene	ND	U	0.0203	0.145	mg/kg	1	10/11/18 16:04
Benzo(g,h,i)perylene	ND	U	0.0117	0.145	mg/kg	1	10/11/18 16:04
Benzo(k)fluoranthene	ND	U	0.0166	0.145	mg/kg	1	10/11/18 16:04
Chrysene	ND	U	0.00991	0.145	mg/kg	1	10/11/18 16:04
Dibenzo(a,h)anthracene	ND	U	0.0143	0.145	mg/kg	1	10/11/18 16:04
Fluoranthene	ND	U	0.0136	0.145	mg/kg	1	10/11/18 16:04
Fluorene	ND	U	0.0121	0.145	mg/kg	1	10/11/18 16:04

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-05 (Soil) Sample Name: **NTP-4B** Collected: **10/10/2018 12:35:00PM**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Indeno(1,2,3-cd)pyrene	ND	U	0.0155	0.145	mg/kg	1	10/11/18 16:04
Naphthalene	ND	U	0.0107	0.145	mg/kg	1	10/11/18 16:04
Phenanthrene	ND	U	0.0190	0.145	mg/kg	1	10/11/18 16:04
Pyrene	ND	U	0.0106	0.145	mg/kg	1	10/11/18 16:04

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000139	0.000954	mg/kg	1	10/10/18 19:58
1,1,2,2-Tetrachloroethane	ND	U	0.000132	0.000954	mg/kg	1	10/10/18 19:58
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000408	0.000954	mg/kg	1	10/10/18 19:58
1,1,2-Trichloroethane	ND	U	0.000161	0.000954	mg/kg	1	10/10/18 19:58
1,1-Dichloroethane	ND	U	0.000139	0.000954	mg/kg	1	10/10/18 19:58
1,1-Dichloroethene	ND	U	0.000176	0.000954	mg/kg	1	10/10/18 19:58
1,2,3-Trichlorobenzene	ND	U	0.000206	0.000954	mg/kg	1	10/10/18 19:58
1,2,4-Trichlorobenzene	ND	U	0.000254	0.000954	mg/kg	1	10/10/18 19:58
1,2,4-Trimethylbenzene	ND	U	0.000132	0.000954	mg/kg	1	10/10/18 19:58
1,2-Dibromo-3-chloropropane	ND	U	0.000233	0.000954	mg/kg	1	10/10/18 19:58
1,2-Dibromoethane	ND	U	0.000120	0.000954	mg/kg	1	10/10/18 19:58
1,2-Dichlorobenzene	ND	U	0.000168	0.000954	mg/kg	1	10/10/18 19:58
1,2-Dichloroethane	ND	U	0.000134	0.000954	mg/kg	1	10/10/18 19:58
1,2-Dichloropropane	ND	U	0.000156	0.000954	mg/kg	1	10/10/18 19:58
1,3-Dichlorobenzene	ND	U	0.0000701	0.000954	mg/kg	1	10/10/18 19:58
1,4-Dichlorobenzene	ND	U	0.000137	0.000954	mg/kg	1	10/10/18 19:58
2-Butanone	ND	U	0.000155	0.00238	mg/kg	1	10/10/18 19:58
2-Hexanone	ND	U	0.0000892	0.000954	mg/kg	1	10/10/18 19:58
4-Methyl-2-pentanone	ND	U	0.000119	0.000954	mg/kg	1	10/10/18 19:58
Acetone	ND	U	0.000289	0.00238	mg/kg	1	10/10/18 19:58
Benzene	ND	U	0.0000868	0.000954	mg/kg	1	10/10/18 19:58
Bromochloromethane	ND	U	0.000176	0.000954	mg/kg	1	10/10/18 19:58
Bromodichloromethane	ND	U	0.000120	0.000954	mg/kg	1	10/10/18 19:58
Bromoform	ND	U	0.000167	0.000954	mg/kg	1	10/10/18 19:58
Bromomethane	ND	U	0.000275	0.000954	mg/kg	1	10/10/18 19:58
Carbon disulfide	ND	U	0.000137	0.000954	mg/kg	1	10/10/18 19:58
Carbon Tetrachloride	ND	U	0.000144	0.000954	mg/kg	1	10/10/18 19:58
Chlorobenzene	ND	U	0.000138	0.000954	mg/kg	1	10/10/18 19:58
Chlorodibromomethane	ND	U	0.000117	0.000954	mg/kg	1	10/10/18 19:58
Chloroethane	ND	U	0.000163	0.000954	mg/kg	1	10/10/18 19:58
Chloroform	ND	U	0.000160	0.000954	mg/kg	1	10/10/18 19:58

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-05 (Soil) Sample Name: **NTP-4B** Collected: **10/10/2018 12:35:00PM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Chloromethane	ND	U	0.000367	0.000954	mg/kg	1	10/10/18 19:58
cis-1,2-Dichloroethene	ND	U	0.0000461	0.000954	mg/kg	1	10/10/18 19:58
cis-1,3-Dichloropropene	ND	U	0.000121	0.000954	mg/kg	1	10/10/18 19:58
Cyclohexane	ND	U	0.000211	0.000954	mg/kg	1	10/10/18 19:58
Dichlorodifluoromethane	ND	U	0.000322	0.000954	mg/kg	1	10/10/18 19:58
EthylBenzene	ND	U	0.000129	0.000954	mg/kg	1	10/10/18 19:58
Isopropylbenzene	ND	U	0.000150	0.000954	mg/kg	1	10/10/18 19:58
m+p-Xylenes	ND	U	0.000241	0.00191	mg/kg	1	10/10/18 19:58
Methyl Acetate	ND	U	0.000126	0.000954	mg/kg	1	10/10/18 19:58
Methyl tert-Butyl Ether	ND	U	0.000161	0.000954	mg/kg	1	10/10/18 19:58
Methylcyclohexane	ND	U	0.000154	0.000954	mg/kg	1	10/10/18 19:58
Methylene Chloride	ND	U	0.000287	0.000954	mg/kg	1	10/10/18 19:58
o-Xylene	ND	U	0.000123	0.000954	mg/kg	1	10/10/18 19:58
Styrene	ND	U	0.000136	0.000954	mg/kg	1	10/10/18 19:58
tert-Butyl alcohol	ND	U	0.00200	0.00954	mg/kg	1	10/10/18 19:58
Tetrachloroethene	ND	U	0.0000944	0.000954	mg/kg	1	10/10/18 19:58
Toluene	ND	U	0.0000768	0.000954	mg/kg	1	10/10/18 19:58
Total Xylenes	ND	U	0.000123	0.000954	mg/kg	1	10/10/18 19:58
trans-1,2-Dichloroethene	ND	U	0.000129	0.000954	mg/kg	1	10/10/18 19:58
trans-1,3-Dichloropropene	ND	U	0.000182	0.000954	mg/kg	1	10/10/18 19:58
Trichloroethene	ND	U	0.000140	0.000954	mg/kg	1	10/10/18 19:58
Trichlorofluoromethane	ND	U	0.000110	0.000954	mg/kg	1	10/10/18 19:58
Vinyl chloride	ND	U	0.000181	0.000954	mg/kg	1	10/10/18 19:58

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**92.0**				**%**	**1**	**10/11/18 10:54**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-06 (Soil) Sample Name: **NTP-6** Collected: **10/10/2018 12:50:00PM**

SW 846 8082A - PCBs

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aroclor-1016	ND	U	0.000670	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1221	ND	U	0.00116	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1232	ND	U	0.000886	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1242	ND	U	0.00128	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1248	ND	U	0.000883	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1254	ND	U	0.00134	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1260	ND	U	0.000992	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1262	ND	U	0.00145	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1268	ND	U	0.000761	0.0376	mg/kg	1	10/11/18 14:26
Total PCBs	ND	U	0.000670	0.0376	mg/kg	1	10/11/18 14:26

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	11.4	22.8	mg/kg	1	10/11/18 16:00

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0249	0.0508	mg/kg	1	10/11/18 12:04

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**6670**		**0.0631**	**2.94**	**mg/kg**	**1**	**10/11/18 14:42**
Antimony	ND		0.00621	1.47	mg/kg	1	10/11/18 14:42
Arsenic	**1.71**		**0.0141**	**1.47**	**mg/kg**	**1**	**10/11/18 14:42**
Barium	**29.1**		**0.00113**	**0.588**	**mg/kg**	**1**	**10/11/18 14:42**
Beryllium	**0.282**		**0.000106**	**0.0294**	**mg/kg**	**1**	**10/11/18 14:42**
Cadmium	ND		0.00100	0.294	mg/kg	1	10/11/18 14:42
Calcium	**1140**		**0.334**	**29.4**	**mg/kg**	**1**	**10/11/18 14:42**
Chromium	**9.79**		**0.00106**	**0.294**	**mg/kg**	**1**	**10/11/18 14:42**
Cobalt	**3.59**		**0.00128**	**0.235**	**mg/kg**	**1**	**10/11/18 14:42**
Copper	**10.1**		**0.00127**	**0.294**	**mg/kg**	**1**	**10/11/18 14:42**
Iron	**12300**		**0.133**	**5.88**	**mg/kg**	**1**	**10/11/18 14:42**
Lead	**7.82**		**0.00614**	**1.47**	**mg/kg**	**1**	**10/11/18 14:42**
Magnesium	**1290**		**0.856**	**58.8**	**mg/kg**	**1**	**10/11/18 14:42**
Manganese	**176**		**0.000728**	**0.294**	**mg/kg**	**1**	**10/11/18 14:42**
Nickel	**6.47**		**0.00202**	**0.147**	**mg/kg**	**1**	**10/11/18 14:42**
Potassium	**361**		**2.76**	**118**	**mg/kg**	**1**	**10/11/18 14:42**
Selenium	ND		0.0127	1.47	mg/kg	1	10/11/18 14:42
Silver	ND		0.00350	0.588	mg/kg	1	10/11/18 14:42

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-06 (Soil) Sample Name: **NTP-6** Collected: **10/10/2018 12:50:00PM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sodium	**132**		**0.161**	**58.8**	**mg/kg**	**1**	**10/11/18 14:42**
Thallium	ND		0.00815	1.47	mg/kg	1	10/11/18 14:42
Vanadium	**17.4**		**0.0102**	**0.588**	**mg/kg**	**1**	**10/11/18 14:42**
Zinc	**20.9**		**0.00270**	**0.882**	**mg/kg**	**1**	**10/11/18 14:42**

SW 846 8081B - Pesticides

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
4,4'-DDD	ND	U	0.000897	0.00148	mg/kg	1	10/11/18 16:29
4,4'-DDE	ND	U	0.00105	0.00148	mg/kg	1	10/11/18 16:29
4,4'-DDT	ND	U	0.000711	0.00148	mg/kg	1	10/11/18 16:29
Aldrin	ND	U	0.000920	0.00148	mg/kg	1	10/11/18 16:29
alpha-BHC	ND	U	0.000574	0.00148	mg/kg	1	10/11/18 16:29
beta-BHC	ND	U	0.00146	0.00148	mg/kg	1	10/11/18 16:29
Chlordane	ND	U	0.000995	0.00148	mg/kg	1	10/11/18 16:29
delta-BHC	ND	U	0.00115	0.00148	mg/kg	1	10/11/18 16:29
Dieldrin	ND	U	0.000798	0.00148	mg/kg	1	10/11/18 16:29
Endosulfan I	ND	U	0.00103	0.00148	mg/kg	1	10/11/18 16:29
Endosulfan II	ND	U	0.000806	0.00148	mg/kg	1	10/11/18 16:29
Endosulfan sulfate	ND	U	0.000806	0.00148	mg/kg	1	10/11/18 16:29
Endrin	ND	U	0.000761	0.00148	mg/kg	1	10/11/18 16:29
Endrin aldehyde	ND	U	0.000633	0.00148	mg/kg	1	10/11/18 16:29
Endrin ketone	ND	U	0.000904	0.00148	mg/kg	1	10/11/18 16:29
gamma-BHC (Lindane)	ND	U	0.000677	0.00148	mg/kg	1	10/11/18 16:29
Heptachlor	ND	U	0.000867	0.00148	mg/kg	1	10/11/18 16:29
Heptachlor Epoxide	ND	U	0.000927	0.00148	mg/kg	1	10/11/18 16:29
Methoxychlor	ND	U	0.000943	0.00148	mg/kg	1	10/11/18 16:29
Toxaphene	ND	U	0.0230	0.0753	mg/kg	1	10/11/18 16:29

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.0364	0.228	mg/kg	1	10/11/18 16:32
2,3,4,6-Tetrachlorophenol	ND	U	0.0234	0.152	mg/kg	1	10/11/18 16:32
2,4,5-Trichlorophenol	ND	U	0.0206	0.152	mg/kg	1	10/11/18 16:32
2,4,6-Trichlorophenol	ND	U	0.00950	0.152	mg/kg	1	10/11/18 16:32
2,4-Dichlorophenol	ND	U	0.0153	0.152	mg/kg	1	10/11/18 16:32
2,4-Dimethylphenol	ND	U	0.0149	0.152	mg/kg	1	10/11/18 16:32
2,4-Dinitrophenol	ND	U	0.0219	0.761	mg/kg	1	10/11/18 16:32
2,4-Dinitrotoluene	ND	U	0.0162	0.152	mg/kg	1	10/11/18 16:32
2,6-Dinitrotoluene	ND	U	0.0363	0.152	mg/kg	1	10/11/18 16:32

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-06 (Soil) Sample Name: **NTP-6** Collected: **10/10/2018 12:50:00PM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
2-Chloronaphthalene	ND	U	0.0174	0.152	mg/kg	1	10/11/18 16:32
2-Chlorophenol	ND	U	0.0201	0.152	mg/kg	1	10/11/18 16:32
2-Methylnaphthalene	ND	U	0.0364	0.228	mg/kg	1	10/11/18 16:32
2-Methylphenol	ND	U	0.0300	0.152	mg/kg	1	10/11/18 16:32
2-Nitroaniline	ND	U	0.0122	0.152	mg/kg	1	10/11/18 16:32
2-Nitrophenol	ND	U	0.0169	0.152	mg/kg	1	10/11/18 16:32
3,3'-Dichlorobenzidine	ND	U	0.0160	0.152	mg/kg	1	10/11/18 16:32
3+4-Methylphenol	ND	U	0.0278	0.152	mg/kg	1	10/11/18 16:32
3-Nitroaniline	ND	U	0.0282	0.152	mg/kg	1	10/11/18 16:32
4,6-Dinitro-2-methylphenol	ND	U	0.0286	0.380	mg/kg	1	10/11/18 16:32
4-Bromophenyl-phenyl ether	ND	U	0.0217	0.152	mg/kg	1	10/11/18 16:32
4-Chloro-3-methylphenol	ND	U	0.0239	0.152	mg/kg	1	10/11/18 16:32
4-Chloroaniline	ND	U	0.00531	0.152	mg/kg	1	10/11/18 16:32
4-Chlorophenyl phenyl ether	ND	U	0.00820	0.152	mg/kg	1	10/11/18 16:32
4-Nitroaniline	ND	U	0.0759	0.152	mg/kg	1	10/11/18 16:32
4-Nitrophenol	ND	U	0.00971	0.152	mg/kg	1	10/11/18 16:32
Acenaphthene	ND	U	0.00865	0.152	mg/kg	1	10/11/18 16:32
Acenaphthylene	ND	U	0.00528	0.152	mg/kg	1	10/11/18 16:32
Acetophenone	ND	U	0.0151	0.152	mg/kg	1	10/11/18 16:32
Anthracene	ND	U	0.0220	0.152	mg/kg	1	10/11/18 16:32
Atrazine	ND	U	0.0143	0.152	mg/kg	1	10/11/18 16:32
Benzaldehyde	ND	U	0.0466	0.152	mg/kg	1	10/11/18 16:32
Benzo(a)anthracene	ND	U	0.0153	0.152	mg/kg	1	10/11/18 16:32
Benzo(a)pyrene	ND	U	0.0265	0.152	mg/kg	1	10/11/18 16:32
Benzo(b)fluoranthene	ND	U	0.0213	0.152	mg/kg	1	10/11/18 16:32
Benzo(g,h,i)perylene	ND	U	0.0123	0.152	mg/kg	1	10/11/18 16:32
Benzo(k)fluoranthene	ND	U	0.0174	0.152	mg/kg	1	10/11/18 16:32
Biphenyl	ND	U	0.0133	0.152	mg/kg	1	10/11/18 16:32
bis(2-chloroethoxy)methane	ND	U	0.0210	0.152	mg/kg	1	10/11/18 16:32
bis(2-chloroethyl)ether	ND	U	0.0166	0.152	mg/kg	1	10/11/18 16:32
bis(2-chloroisopropyl)ether	ND	U	0.0546	0.152	mg/kg	1	10/11/18 16:32
bis(2-ethylhexyl)phthalate	ND	U	0.0303	0.152	mg/kg	1	10/11/18 16:32
Butylbenzylphthalate	ND	U	0.0138	0.152	mg/kg	1	10/11/18 16:32
Caprolactam	ND	U	0.0196	0.152	mg/kg	1	10/11/18 16:32
Carbazole	ND	U	0.0292	0.380	mg/kg	1	10/11/18 16:32
Chrysene	ND	U	0.0104	0.152	mg/kg	1	10/11/18 16:32
Dibenzo(a,h)anthracene	ND	U	0.0151	0.152	mg/kg	1	10/11/18 16:32
Dibenzofuran	ND	U	0.00904	0.152	mg/kg	1	10/11/18 16:32
Diethylphthalate	ND	U	0.0294	0.152	mg/kg	1	10/11/18 16:32

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J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-06 (Soil) Sample Name: **NTP-6** Collected: **10/10/2018 12:50:00PM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Dimethylphthalate	**0.0721**	**J**	**0.00942**	**0.152**	**mg/kg**	**1**	**10/11/18 16:32**
Di-n-butylphthalate	ND	U	0.0620	0.152	mg/kg	1	10/11/18 16:32
Di-n-octylphthalate	ND	U	0.0311	0.152	mg/kg	1	10/11/18 16:32
Fluoranthene	ND	U	0.0143	0.152	mg/kg	1	10/11/18 16:32
Fluorene	ND	U	0.0127	0.152	mg/kg	1	10/11/18 16:32
Hexachlorobenzene	ND	U	0.0198	0.152	mg/kg	1	10/11/18 16:32
Hexachlorobutadiene	ND	U	0.0729	0.152	mg/kg	1	10/11/18 16:32
Hexachlorocyclopentadiene	ND	U	0.0633	0.380	mg/kg	1	10/11/18 16:32
Hexachloroethane	ND	U	0.0166	0.152	mg/kg	1	10/11/18 16:32
Indeno(1,2,3-cd)pyrene	ND	U	0.0163	0.152	mg/kg	1	10/11/18 16:32
Isophorone	ND	U	0.00994	0.152	mg/kg	1	10/11/18 16:32
Naphthalene	ND	U	0.0112	0.152	mg/kg	1	10/11/18 16:32
Nitrobenzene	ND	U	0.0258	0.152	mg/kg	1	10/11/18 16:32
n-Nitroso-di-n-propylamine	ND	U	0.00813	0.152	mg/kg	1	10/11/18 16:32
n-Nitrosodiphenylamine	ND	U	0.0324	0.152	mg/kg	1	10/11/18 16:32
Phenanthrene	ND	U	0.0200	0.152	mg/kg	1	10/11/18 16:32
Phenol	ND	U	0.0123	0.152	mg/kg	1	10/11/18 16:32
Pyrene	ND	U	0.0112	0.152	mg/kg	1	10/11/18 16:32

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed

No TICs Found

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000166	0.00114	mg/kg	1	10/10/18 20:28
1,1,2,2-Tetrachloroethane	ND	U	0.000157	0.00114	mg/kg	1	10/10/18 20:28
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000488	0.00114	mg/kg	1	10/10/18 20:28
1,1,2-Trichloroethane	ND	U	0.000192	0.00114	mg/kg	1	10/10/18 20:28
1,1-Dichloroethane	ND	U	0.000166	0.00114	mg/kg	1	10/10/18 20:28
1,1-Dichloroethene	ND	U	0.000211	0.00114	mg/kg	1	10/10/18 20:28
1,2,3-Trichlorobenzene	ND	U	0.000246	0.00114	mg/kg	1	10/10/18 20:28
1,2,4-Trichlorobenzene	ND	U	0.000304	0.00114	mg/kg	1	10/10/18 20:28
1,2,4-Trimethylbenzene	ND	U	0.000157	0.00114	mg/kg	1	10/10/18 20:28
1,2-Dibromo-3-chloropropane	ND	U	0.000278	0.00114	mg/kg	1	10/10/18 20:28
1,2-Dibromoethane	ND	U	0.000144	0.00114	mg/kg	1	10/10/18 20:28
1,2-Dichlorobenzene	ND	U	0.000201	0.00114	mg/kg	1	10/10/18 20:28
1,2-Dichloroethane	ND	U	0.000161	0.00114	mg/kg	1	10/10/18 20:28

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-06 (Soil) Sample Name: **NTP-6** Collected: **10/10/2018 12:50:00PM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,2-Dichloropropane	ND	U	0.000187	0.00114	mg/kg	1	10/10/18 20:28
1,3-Dichlorobenzene	ND	U	0.0000838	0.00114	mg/kg	1	10/10/18 20:28
1,4-Dichlorobenzene	ND	U	0.000164	0.00114	mg/kg	1	10/10/18 20:28
2-Butanone	ND	U	0.000186	0.00285	mg/kg	1	10/10/18 20:28
2-Hexanone	ND	U	0.000107	0.00114	mg/kg	1	10/10/18 20:28
4-Methyl-2-pentanone	ND	U	0.000143	0.00114	mg/kg	1	10/10/18 20:28
Acetone	ND	U	0.000345	0.00285	mg/kg	1	10/10/18 20:28
Benzene	ND	U	0.000104	0.00114	mg/kg	1	10/10/18 20:28
Bromochloromethane	ND	U	0.000210	0.00114	mg/kg	1	10/10/18 20:28
Bromodichloromethane	ND	U	0.000143	0.00114	mg/kg	1	10/10/18 20:28
Bromoform	ND	U	0.000200	0.00114	mg/kg	1	10/10/18 20:28
Bromomethane	ND	U	0.000329	0.00114	mg/kg	1	10/10/18 20:28
Carbon disulfide	ND	U	0.000164	0.00114	mg/kg	1	10/10/18 20:28
Carbon Tetrachloride	ND	U	0.000172	0.00114	mg/kg	1	10/10/18 20:28
Chlorobenzene	ND	U	0.000165	0.00114	mg/kg	1	10/10/18 20:28
Chlorodibromomethane	ND	U	0.000140	0.00114	mg/kg	1	10/10/18 20:28
Chloroethane	ND	U	0.000194	0.00114	mg/kg	1	10/10/18 20:28
Chloroform	ND	U	0.000192	0.00114	mg/kg	1	10/10/18 20:28
Chloromethane	ND	U	0.000439	0.00114	mg/kg	1	10/10/18 20:28
cis-1,2-Dichloroethene	ND	U	0.0000551	0.00114	mg/kg	1	10/10/18 20:28
cis-1,3-Dichloropropene	ND	U	0.000144	0.00114	mg/kg	1	10/10/18 20:28
Cyclohexane	ND	U	0.000253	0.00114	mg/kg	1	10/10/18 20:28
Dichlorodifluoromethane	ND	U	0.000385	0.00114	mg/kg	1	10/10/18 20:28
EthylBenzene	ND	U	0.000154	0.00114	mg/kg	1	10/10/18 20:28
Isopropylbenzene	ND	U	0.000179	0.00114	mg/kg	1	10/10/18 20:28
m+p-Xylenes	ND	U	0.000288	0.00228	mg/kg	1	10/10/18 20:28
Methyl Acetate	ND	U	0.000151	0.00114	mg/kg	1	10/10/18 20:28
Methyl tert-Butyl Ether	ND	U	0.000193	0.00114	mg/kg	1	10/10/18 20:28
Methylcyclohexane	ND	U	0.000184	0.00114	mg/kg	1	10/10/18 20:28
Methylene Chloride	ND	U	0.000343	0.00114	mg/kg	1	10/10/18 20:28
o-Xylene	ND	U	0.000147	0.00114	mg/kg	1	10/10/18 20:28
Styrene	ND	U	0.000163	0.00114	mg/kg	1	10/10/18 20:28
tert-Butyl alcohol	ND	U	0.00239	0.0114	mg/kg	1	10/10/18 20:28
Tetrachloroethene	ND	U	0.000113	0.00114	mg/kg	1	10/10/18 20:28
Toluene	ND	U	0.0000918	0.00114	mg/kg	1	10/10/18 20:28
Total Xylenes	ND	U	0.000147	0.00114	mg/kg	1	10/10/18 20:28
trans-1,2-Dichloroethene	ND	U	0.000154	0.00114	mg/kg	1	10/10/18 20:28
trans-1,3-Dichloropropene	ND	U	0.000218	0.00114	mg/kg	1	10/10/18 20:28
Trichloroethene	ND	U	0.000168	0.00114	mg/kg	1	10/10/18 20:28

ND - Indicates compound analyzed for but not detected
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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-06 (Soil) Sample Name: NTP-6 Collected: 10/10/2018 12:50:00PM

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Trichlorofluoromethane	ND	U	0.000131	0.00114	mg/kg	1	10/10/18 20:28
Vinyl chloride	ND	U	0.000217	0.00114	mg/kg	1	10/10/18 20:28

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**87.7**				**%**	**1**	**10/11/18 10:54**

SW 846 9014 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Cyanide	ND		0.0855	0.285	mg/kg	1	10/11/18 13:30

8100452-07 (Soil) Sample Name: NTP-7 Collected: 10/10/2018 1:00:00PM

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	**65.8**		**10.9**	**21.9**	**mg/kg**	**1**	**10/11/18 16:35**

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0235	0.0479	mg/kg	1	10/11/18 12:43

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**4450**		**0.0582**	**2.71**	**mg/kg**	**1**	**10/11/18 14:44**
Antimony	ND		0.00572	1.35	mg/kg	1	10/11/18 14:44
Arsenic	ND		0.0130	1.35	mg/kg	1	10/11/18 14:44
Barium	**21.4**		**0.00104**	**0.542**	**mg/kg**	**1**	**10/11/18 14:44**
Beryllium	**0.160**		**0.0000978**	**0.0271**	**mg/kg**	**1**	**10/11/18 14:44**
Cadmium	ND		0.000923	0.271	mg/kg	1	10/11/18 14:44
Calcium	**1080**		**0.308**	**27.1**	**mg/kg**	**1**	**10/11/18 14:44**
Chromium	**6.67**		**0.000974**	**0.271**	**mg/kg**	**1**	**10/11/18 14:44**
Cobalt	**3.01**		**0.00118**	**0.217**	**mg/kg**	**1**	**10/11/18 14:44**
Copper	**8.67**		**0.00117**	**0.271**	**mg/kg**	**1**	**10/11/18 14:44**
Iron	**8450**		**0.122**	**5.42**	**mg/kg**	**1**	**10/11/18 14:44**

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D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-07 (Soil) Sample Name: **NTP-7** Collected: **10/10/2018 1:00:00PM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Lead	**11.3**		**0.00566**	**1.35**	**mg/kg**	**1**	**10/11/18 14:44**
Magnesium	**1090**		**0.789**	**54.2**	**mg/kg**	**1**	**10/11/18 14:44**
Manganese	**145**		**0.000671**	**0.271**	**mg/kg**	**1**	**10/11/18 14:44**
Nickel	**5.23**		**0.00186**	**0.135**	**mg/kg**	**1**	**10/11/18 14:44**
Potassium	**230**		**2.55**	**108**	**mg/kg**	**1**	**10/11/18 14:44**
Selenium	ND		0.0117	1.35	mg/kg	1	10/11/18 14:44
Silver	ND		0.00323	0.542	mg/kg	1	10/11/18 14:44
Sodium	**160**		**0.148**	**54.2**	**mg/kg**	**1**	**10/11/18 14:44**
Thallium	ND		0.00751	1.35	mg/kg	1	10/11/18 14:44
Vanadium	**12.8**		**0.00939**	**0.542**	**mg/kg**	**1**	**10/11/18 14:44**
Zinc	**21.1**		**0.00249**	**0.813**	**mg/kg**	**1**	**10/11/18 14:44**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.122	0.219	mg/kg	1	10/11/18 17:01
2-Methylnaphthalene	ND	U	0.0349	0.219	mg/kg	1	10/11/18 17:01
Acenaphthene	ND	U	0.00831	0.146	mg/kg	1	10/11/18 17:01
Acenaphthylene	ND	U	0.00507	0.146	mg/kg	1	10/11/18 17:01
Anthracene	ND	U	0.0211	0.146	mg/kg	1	10/11/18 17:01
Benzo(a)anthracene	**0.133**	**J**	**0.0147**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Benzo(a)pyrene	**0.105**	**J**	**0.0254**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Benzo(b)fluoranthene	**0.169**		**0.0205**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Benzo(g,h,i)perylene	**0.124**	**J**	**0.0118**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Benzo(k)fluoranthene	**0.106**	**J**	**0.0167**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Chrysene	**0.134**	**J**	**0.00998**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Dibenzo(a,h)anthracene	ND	U	0.0144	0.146	mg/kg	1	10/11/18 17:01
Fluoranthene	**0.193**		**0.0137**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Fluorene	ND	U	0.0122	0.146	mg/kg	1	10/11/18 17:01
Indeno(1,2,3-cd)pyrene	ND	U	0.0157	0.146	mg/kg	1	10/11/18 17:01
Naphthalene	ND	U	0.0108	0.146	mg/kg	1	10/11/18 17:01
Phenanthrene	**0.0964**	**J**	**0.0192**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Pyrene	**0.184**		**0.0107**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000155	0.00106	mg/kg	1	10/10/18 21:02
1,1,2,2-Tetrachloroethane	ND	U	0.000147	0.00106	mg/kg	1	10/10/18 21:02
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000455	0.00106	mg/kg	1	10/10/18 21:02

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-07 (Soil) Sample Name: **NTP-7** Collected: **10/10/2018 1:00:00PM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,2-Trichloroethane	ND	U	0.000179	0.00106	mg/kg	1	10/10/18 21:02
1,1-Dichloroethane	ND	U	0.000155	0.00106	mg/kg	1	10/10/18 21:02
1,1-Dichloroethene	ND	U	0.000197	0.00106	mg/kg	1	10/10/18 21:02
1,2,3-Trichlorobenzene	ND	U	0.000230	0.00106	mg/kg	1	10/10/18 21:02
1,2,4-Trichlorobenzene	ND	U	0.000283	0.00106	mg/kg	1	10/10/18 21:02
1,2,4-Trimethylbenzene	ND	U	0.000147	0.00106	mg/kg	1	10/10/18 21:02
1,2-Dibromo-3-chloropropane	ND	U	0.000259	0.00106	mg/kg	1	10/10/18 21:02
1,2-Dibromoethane	ND	U	0.000134	0.00106	mg/kg	1	10/10/18 21:02
1,2-Dichlorobenzene	ND	U	0.000188	0.00106	mg/kg	1	10/10/18 21:02
1,2-Dichloroethane	ND	U	0.000150	0.00106	mg/kg	1	10/10/18 21:02
1,2-Dichloropropane	ND	U	0.000174	0.00106	mg/kg	1	10/10/18 21:02
1,3-Dichlorobenzene	ND	U	0.0000781	0.00106	mg/kg	1	10/10/18 21:02
1,4-Dichlorobenzene	ND	U	0.000153	0.00106	mg/kg	1	10/10/18 21:02
2-Butanone	ND	U	0.000173	0.00266	mg/kg	1	10/10/18 21:02
2-Hexanone	ND	U	0.0000994	0.00106	mg/kg	1	10/10/18 21:02
4-Methyl-2-pentanone	ND	U	0.000133	0.00106	mg/kg	1	10/10/18 21:02
Acetone	ND	U	0.000322	0.00266	mg/kg	1	10/10/18 21:02
Benzene	ND	U	0.0000967	0.00106	mg/kg	1	10/10/18 21:02
Bromochloromethane	ND	U	0.000196	0.00106	mg/kg	1	10/10/18 21:02
Bromodichloromethane	ND	U	0.000133	0.00106	mg/kg	1	10/10/18 21:02
Bromoform	ND	U	0.000187	0.00106	mg/kg	1	10/10/18 21:02
Bromomethane	ND	U	0.000307	0.00106	mg/kg	1	10/10/18 21:02
Carbon disulfide	ND	U	0.000153	0.00106	mg/kg	1	10/10/18 21:02
Carbon Tetrachloride	ND	U	0.000160	0.00106	mg/kg	1	10/10/18 21:02
Chlorobenzene	ND	U	0.000154	0.00106	mg/kg	1	10/10/18 21:02
Chlorodibromomethane	ND	U	0.000131	0.00106	mg/kg	1	10/10/18 21:02
Chloroethane	ND	U	0.000181	0.00106	mg/kg	1	10/10/18 21:02
Chloroform	ND	U	0.000179	0.00106	mg/kg	1	10/10/18 21:02
Chloromethane	ND	U	0.000409	0.00106	mg/kg	1	10/10/18 21:02
cis-1,2-Dichloroethene	ND	U	0.0000514	0.00106	mg/kg	1	10/10/18 21:02
cis-1,3-Dichloropropene	ND	U	0.000134	0.00106	mg/kg	1	10/10/18 21:02
Cyclohexane	ND	U	0.000235	0.00106	mg/kg	1	10/10/18 21:02
Dichlorodifluoromethane	ND	U	0.000359	0.00106	mg/kg	1	10/10/18 21:02
EthylBenzene	ND	U	0.000144	0.00106	mg/kg	1	10/10/18 21:02
Isopropylbenzene	ND	U	0.000167	0.00106	mg/kg	1	10/10/18 21:02
m+p-Xylenes	ND	U	0.000268	0.00213	mg/kg	1	10/10/18 21:02
Methyl Acetate	ND	U	0.000141	0.00106	mg/kg	1	10/10/18 21:02
Methyl tert-Butyl Ether	ND	U	0.000180	0.00106	mg/kg	1	10/10/18 21:02
Methylcyclohexane	ND	U	0.000171	0.00106	mg/kg	1	10/10/18 21:02

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-07 (Soil) Sample Name: NTP-7 Collected: 10/10/2018 1:00:00PM

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Methylene Chloride	ND	U	0.000319	0.00106	mg/kg	1	10/10/18 21:02
o-Xylene	ND	U	0.000137	0.00106	mg/kg	1	10/10/18 21:02
Styrene	ND	U	0.000152	0.00106	mg/kg	1	10/10/18 21:02
tert-Butyl alcohol	ND	U	0.00223	0.0106	mg/kg	1	10/10/18 21:02
Tetrachloroethene	ND	U	0.000105	0.00106	mg/kg	1	10/10/18 21:02
Toluene	ND	U	0.0000856	0.00106	mg/kg	1	10/10/18 21:02
Total Xylenes	ND	U	0.000137	0.00106	mg/kg	1	10/10/18 21:02
trans-1,2-Dichloroethene	ND	U	0.000144	0.00106	mg/kg	1	10/10/18 21:02
trans-1,3-Dichloropropene	ND	U	0.000203	0.00106	mg/kg	1	10/10/18 21:02
Trichloroethene	ND	U	0.000156	0.00106	mg/kg	1	10/10/18 21:02
Trichlorofluoromethane	ND	U	0.000122	0.00106	mg/kg	1	10/10/18 21:02
Vinyl chloride	ND	U	0.000202	0.00106	mg/kg	1	10/10/18 21:02

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**91.4**				**%**	**1**	**10/11/18 10:54**

8100452-08 (Soil) Sample Name: STP-1B Collected: 10/10/2018 1:15:00PM

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	11.2	22.3	mg/kg	1	10/11/18 17:10

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0224	0.0457	mg/kg	1	10/11/18 12:46

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**5040**		**0.0576**	**2.68**	**mg/kg**	**1**	**10/11/18 14:46**
Antimony	ND		0.00567	1.34	mg/kg	1	10/11/18 14:46
Arsenic	ND		0.0129	1.34	mg/kg	1	10/11/18 14:46
Barium	**20.2**		**0.00103**	**0.537**	**mg/kg**	**1**	**10/11/18 14:46**
Beryllium	**0.191**		**0.0000968**	**0.0268**	**mg/kg**	**1**	**10/11/18 14:46**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-08 (Soil) Sample Name: **STP-1B** Collected: **10/10/2018 1:15:00PM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Cadmium	ND		0.000914	0.268	mg/kg	1	10/11/18 14:46
Calcium	**453**		**0.305**	**26.8**	**mg/kg**	**1**	**10/11/18 14:46**
Chromium	**7.08**		**0.000965**	**0.268**	**mg/kg**	**1**	**10/11/18 14:46**
Cobalt	**3.03**		**0.00117**	**0.215**	**mg/kg**	**1**	**10/11/18 14:46**
Copper	**7.22**		**0.00116**	**0.268**	**mg/kg**	**1**	**10/11/18 14:46**
Iron	**9500**		**0.121**	**5.37**	**mg/kg**	**1**	**10/11/18 14:46**
Lead	**4.88**		**0.00560**	**1.34**	**mg/kg**	**1**	**10/11/18 14:46**
Magnesium	**966**		**0.781**	**53.7**	**mg/kg**	**1**	**10/11/18 14:46**
Manganese	**144**		**0.000664**	**0.268**	**mg/kg**	**1**	**10/11/18 14:46**
Nickel	**5.18**		**0.00185**	**0.134**	**mg/kg**	**1**	**10/11/18 14:46**
Potassium	**260**		**2.52**	**107**	**mg/kg**	**1**	**10/11/18 14:46**
Selenium	ND		0.0116	1.34	mg/kg	1	10/11/18 14:46
Silver	ND		0.00320	0.537	mg/kg	1	10/11/18 14:46
Sodium	**72.2**		**0.147**	**53.7**	**mg/kg**	**1**	**10/11/18 14:46**
Thallium	ND		0.00744	1.34	mg/kg	1	10/11/18 14:46
Vanadium	**13.0**		**0.00929**	**0.537**	**mg/kg**	**1**	**10/11/18 14:46**
Zinc	**23.5**		**0.00247**	**0.805**	**mg/kg**	**1**	**10/11/18 14:46**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.124	0.223	mg/kg	1	10/11/18 17:29
2-Methylnaphthalene	ND	U	0.0356	0.223	mg/kg	1	10/11/18 17:29
Acenaphthene	ND	U	0.00847	0.148	mg/kg	1	10/11/18 17:29
Acenaphthylene	ND	U	0.00517	0.148	mg/kg	1	10/11/18 17:29
Anthracene	ND	U	0.0215	0.148	mg/kg	1	10/11/18 17:29
Benzo(a)anthracene	ND	U	0.0150	0.148	mg/kg	1	10/11/18 17:29
Benzo(a)pyrene	ND	U	0.0259	0.148	mg/kg	1	10/11/18 17:29
Benzo(b)fluoranthene	ND	U	0.0209	0.148	mg/kg	1	10/11/18 17:29
Benzo(g,h,i)perylene	ND	U	0.0121	0.148	mg/kg	1	10/11/18 17:29
Benzo(k)fluoranthene	ND	U	0.0171	0.148	mg/kg	1	10/11/18 17:29
Chrysene	ND	U	0.0102	0.148	mg/kg	1	10/11/18 17:29
Dibenzo(a,h)anthracene	ND	U	0.0147	0.148	mg/kg	1	10/11/18 17:29
Fluoranthene	ND	U	0.0140	0.148	mg/kg	1	10/11/18 17:29
Fluorene	ND	U	0.0124	0.148	mg/kg	1	10/11/18 17:29
Indeno(1,2,3-cd)pyrene	ND	U	0.0160	0.148	mg/kg	1	10/11/18 17:29
Naphthalene	ND	U	0.0110	0.148	mg/kg	1	10/11/18 17:29
Phenanthrene	ND	U	0.0195	0.148	mg/kg	1	10/11/18 17:29
Pyrene	ND	U	0.0109	0.148	mg/kg	1	10/11/18 17:29

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-08 (Soil) Sample Name: **STP-1B** Collected: **10/10/2018 1:15:00PM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000397	0.00272	mg/kg	1	10/11/18 13:34
1,1,2,2-Tetrachloroethane	ND	U	0.000376	0.00272	mg/kg	1	10/11/18 13:34
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.00117	0.00272	mg/kg	1	10/11/18 13:34
1,1,2-Trichloroethane	ND	U	0.000459	0.00272	mg/kg	1	10/11/18 13:34
1,1-Dichloroethane	ND	U	0.000397	0.00272	mg/kg	1	10/11/18 13:34
1,1-Dichloroethene	ND	U	0.000504	0.00272	mg/kg	1	10/11/18 13:34
1,2,3-Trichlorobenzene	ND	U	0.000588	0.00272	mg/kg	1	10/11/18 13:34
1,2,4-Trichlorobenzene	ND	U	0.000726	0.00272	mg/kg	1	10/11/18 13:34
1,2,4-Trimethylbenzene	ND	U	0.000376	0.00272	mg/kg	1	10/11/18 13:34
1,2-Dibromo-3-chloropropane	ND	U	0.000664	0.00272	mg/kg	1	10/11/18 13:34
1,2-Dibromoethane	ND	U	0.000343	0.00272	mg/kg	1	10/11/18 13:34
1,2-Dichlorobenzene	ND	U	0.000481	0.00272	mg/kg	1	10/11/18 13:34
1,2-Dichloroethane	ND	U	0.000384	0.00272	mg/kg	1	10/11/18 13:34
1,2-Dichloropropane	ND	U	0.000446	0.00272	mg/kg	1	10/11/18 13:34
1,3-Dichlorobenzene	ND	U	0.000200	0.00272	mg/kg	1	10/11/18 13:34
1,4-Dichlorobenzene	ND	U	0.000392	0.00272	mg/kg	1	10/11/18 13:34
2-Butanone	ND	U	0.000444	0.00681	mg/kg	1	10/11/18 13:34
2-Hexanone	ND	U	0.000255	0.00272	mg/kg	1	10/11/18 13:34
4-Methyl-2-pentanone	ND	U	0.000340	0.00272	mg/kg	1	10/11/18 13:34
Acetone	ND	U	0.000825	0.00681	mg/kg	1	10/11/18 13:34
Benzene	ND	U	0.000248	0.00272	mg/kg	1	10/11/18 13:34
Bromochloromethane	ND	U	0.000502	0.00272	mg/kg	1	10/11/18 13:34
Bromodichloromethane	ND	U	0.000342	0.00272	mg/kg	1	10/11/18 13:34
Bromoform	ND	U	0.000478	0.00272	mg/kg	1	10/11/18 13:34
Bromomethane	ND	U	0.000785	0.00272	mg/kg	1	10/11/18 13:34
Carbon disulfide	ND	U	0.000391	0.00272	mg/kg	1	10/11/18 13:34
Carbon Tetrachloride	ND	U	0.000410	0.00272	mg/kg	1	10/11/18 13:34
Chlorobenzene	ND	U	0.000395	0.00272	mg/kg	1	10/11/18 13:34
Chlorodibromomethane	ND	U	0.000335	0.00272	mg/kg	1	10/11/18 13:34
Chloroethane	ND	U	0.000464	0.00272	mg/kg	1	10/11/18 13:34
Chloroform	ND	U	0.000457	0.00272	mg/kg	1	10/11/18 13:34
Chloromethane	ND	U	0.00105	0.00272	mg/kg	1	10/11/18 13:34
cis-1,2-Dichloroethene	ND	U	0.000132	0.00272	mg/kg	1	10/11/18 13:34
cis-1,3-Dichloropropene	ND	U	0.000344	0.00272	mg/kg	1	10/11/18 13:34
Cyclohexane	ND	U	0.000603	0.00272	mg/kg	1	10/11/18 13:34
Dichlorodifluoromethane	ND	U	0.000919	0.00272	mg/kg	1	10/11/18 13:34
EthylBenzene	ND	U	0.000369	0.00272	mg/kg	1	10/11/18 13:34
Isopropylbenzene	ND	U	0.000427	0.00272	mg/kg	1	10/11/18 13:34

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-08 (Soil) Sample Name: **STP-1B** Collected: **10/10/2018 1:15:00PM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
m+p-Xylenes	ND	U	0.000687	0.00544	mg/kg	1	10/11/18 13:34
Methyl Acetate	ND	U	0.000361	0.00272	mg/kg	1	10/11/18 13:34
Methyl tert-Butyl Ether	ND	U	0.000460	0.00272	mg/kg	1	10/11/18 13:34
Methylcyclohexane	ND	U	0.000438	0.00272	mg/kg	1	10/11/18 13:34
Methylene Chloride	ND	U	0.000818	0.00272	mg/kg	1	10/11/18 13:34
o-Xylene	ND	U	0.000350	0.00272	mg/kg	1	10/11/18 13:34
Styrene	ND	U	0.000389	0.00272	mg/kg	1	10/11/18 13:34
tert-Butyl alcohol	ND	U	0.00572	0.0272	mg/kg	1	10/11/18 13:34
Tetrachloroethene	ND	U	0.000270	0.00272	mg/kg	1	10/11/18 13:34
Toluene	ND	U	0.000219	0.00272	mg/kg	1	10/11/18 13:34
Total Xylenes	ND	U	0.000350	0.00272	mg/kg	1	10/11/18 13:34
trans-1,2-Dichloroethene	ND	U	0.000369	0.00272	mg/kg	1	10/11/18 13:34
trans-1,3-Dichloropropene	ND	U	0.000520	0.00272	mg/kg	1	10/11/18 13:34
Trichloroethene	ND	U	0.000400	0.00272	mg/kg	1	10/11/18 13:34
Trichlorofluoromethane	ND	U	0.000313	0.00272	mg/kg	1	10/11/18 13:34
Vinyl chloride	ND	U	0.000517	0.00272	mg/kg	1	10/11/18 13:34

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**89.6**				**%**	**1**	**10/11/18 10:54**

8100452-09 (Soil) Sample Name: **STP-2B** Collected: **10/10/2018 1:30:00PM**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.9	21.8	mg/kg	1	10/12/18 11:28

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0252	0.0514	mg/kg	1	10/11/18 12:49

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-09 (Soil) Sample Name: **STP-2B** Collected: **10/10/2018 1:30:00PM**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**5700**		**0.0631**	**2.94**	**mg/kg**	**1**	**10/11/18 14:48**
Antimony	ND		0.00620	1.47	mg/kg	1	10/11/18 14:48
Arsenic	ND		0.0141	1.47	mg/kg	1	10/11/18 14:48
Barium	**23.4**		**0.00113**	**0.587**	**mg/kg**	**1**	**10/11/18 14:48**
Beryllium	**0.223**		**0.000106**	**0.0294**	**mg/kg**	**1**	**10/11/18 14:48**
Cadmium	ND		0.00100	0.294	mg/kg	1	10/11/18 14:48
Calcium	**473**		**0.334**	**29.4**	**mg/kg**	**1**	**10/11/18 14:48**
Chromium	**7.63**		**0.00106**	**0.294**	**mg/kg**	**1**	**10/11/18 14:48**
Cobalt	**3.23**		**0.00128**	**0.235**	**mg/kg**	**1**	**10/11/18 14:48**
Copper	**8.57**		**0.00127**	**0.294**	**mg/kg**	**1**	**10/11/18 14:48**
Iron	**11100**		**0.133**	**5.87**	**mg/kg**	**1**	**10/11/18 14:48**
Lead	**6.05**		**0.00613**	**1.47**	**mg/kg**	**1**	**10/11/18 14:48**
Magnesium	**1070**		**0.855**	**58.7**	**mg/kg**	**1**	**10/11/18 14:48**
Manganese	**187**		**0.000727**	**0.294**	**mg/kg**	**1**	**10/11/18 14:48**
Nickel	**5.76**		**0.00202**	**0.147**	**mg/kg**	**1**	**10/11/18 14:48**
Potassium	**271**		**2.76**	**117**	**mg/kg**	**1**	**10/11/18 14:48**
Selenium	ND		0.0127	1.47	mg/kg	1	10/11/18 14:48
Silver	ND		0.00350	0.587	mg/kg	1	10/11/18 14:48
Sodium	**74.3**		**0.161**	**58.7**	**mg/kg**	**1**	**10/11/18 14:48**
Thallium	ND		0.00814	1.47	mg/kg	1	10/11/18 14:48
Vanadium	**13.9**		**0.0102**	**0.587**	**mg/kg**	**1**	**10/11/18 14:48**
Zinc	**38.2**		**0.00270**	**0.881**	**mg/kg**	**1**	**10/11/18 14:48**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.121	0.218	mg/kg	1	10/11/18 17:26
2-Methylnaphthalene	ND	U	0.0348	0.218	mg/kg	1	10/11/18 17:26
Acenaphthene	ND	U	0.00829	0.145	mg/kg	1	10/11/18 17:26
Acenaphthylene	ND	U	0.00506	0.145	mg/kg	1	10/11/18 17:26
Anthracene	ND	U	0.0211	0.145	mg/kg	1	10/11/18 17:26
Benzo(a)anthracene	ND	U	0.0146	0.145	mg/kg	1	10/11/18 17:26
Benzo(a)pyrene	ND	U	0.0253	0.145	mg/kg	1	10/11/18 17:26
Benzo(b)fluoranthene	ND	U	0.0204	0.145	mg/kg	1	10/11/18 17:26
Benzo(g,h,i)perylene	ND	U	0.0118	0.145	mg/kg	1	10/11/18 17:26
Benzo(k)fluoranthene	ND	U	0.0167	0.145	mg/kg	1	10/11/18 17:26
Chrysene	ND	U	0.00996	0.145	mg/kg	1	10/11/18 17:26
Dibenzo(a,h)anthracene	ND	U	0.0144	0.145	mg/kg	1	10/11/18 17:26
Fluoranthene	ND	U	0.0137	0.145	mg/kg	1	10/11/18 17:26
Fluorene	ND	U	0.0121	0.145	mg/kg	1	10/11/18 17:26

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-09 (Soil) Sample Name: **STP-2B** Collected: **10/10/2018 1:30:00PM**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Indeno(1,2,3-cd)pyrene	ND	U	0.0156	0.145	mg/kg	1	10/11/18 17:26
Naphthalene	ND	U	0.0108	0.145	mg/kg	1	10/11/18 17:26
Phenanthrene	ND	U	0.0191	0.145	mg/kg	1	10/11/18 17:26
Pyrene	ND	U	0.0107	0.145	mg/kg	1	10/11/18 17:26

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**91.5**				**%**	**1**	**10/11/18 10:54**

8100452-10 (Soil) Sample Name: **STP-3B** Collected: **10/10/2018 1:40:00PM**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.9	21.9	mg/kg	1	10/12/18 12:03

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	**0.0562**		**0.0235**	**0.0478**	**mg/kg**	**1**	**10/11/18 12:53**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**4900**		**0.0556**	**2.59**	**mg/kg**	**1**	**10/11/18 14:50**
Antimony	ND		0.00547	1.29	mg/kg	1	10/11/18 14:50
Arsenic	**1.65**		**0.0124**	**1.29**	**mg/kg**	**1**	**10/11/18 14:50**
Barium	**19.4**		**0.000998**	**0.518**	**mg/kg**	**1**	**10/11/18 14:50**
Beryllium	**0.184**		**0.0000934**	**0.0259**	**mg/kg**	**1**	**10/11/18 14:50**
Cadmium	ND		0.000882	0.259	mg/kg	1	10/11/18 14:50
Calcium	**463**		**0.294**	**25.9**	**mg/kg**	**1**	**10/11/18 14:50**
Chromium	**6.68**		**0.000931**	**0.259**	**mg/kg**	**1**	**10/11/18 14:50**
Cobalt	**2.90**		**0.00113**	**0.207**	**mg/kg**	**1**	**10/11/18 14:50**
Copper	**7.66**		**0.00112**	**0.259**	**mg/kg**	**1**	**10/11/18 14:50**
Iron	**9550**		**0.117**	**5.18**	**mg/kg**	**1**	**10/11/18 14:50**
Lead	**6.01**		**0.00541**	**1.29**	**mg/kg**	**1**	**10/11/18 14:50**
Magnesium	**977**		**0.754**	**51.8**	**mg/kg**	**1**	**10/11/18 14:50**
Manganese	**163**		**0.000641**	**0.259**	**mg/kg**	**1**	**10/11/18 14:50**
Nickel	**5.18**		**0.00178**	**0.129**	**mg/kg**	**1**	**10/11/18 14:50**
Potassium	**272**		**2.43**	**104**	**mg/kg**	**1**	**10/11/18 14:50**
Selenium	ND		0.0112	1.29	mg/kg	1	10/11/18 14:50

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-10 (Soil) Sample Name: **STP-3B** Collected: **10/10/2018 1:40:00PM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Silver	ND		0.00309	0.518	mg/kg	1	10/11/18 14:50
Sodium	**74.0**		**0.142**	**51.8**	**mg/kg**	**1**	**10/11/18 14:50**
Thallium	ND		0.00718	1.29	mg/kg	1	10/11/18 14:50
Vanadium	**12.7**		**0.00897**	**0.518**	**mg/kg**	**1**	**10/11/18 14:50**
Zinc	**21.0**		**0.00238**	**0.777**	**mg/kg**	**1**	**10/11/18 14:50**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.121	0.219	mg/kg	1	10/11/18 14:58
2-Methylnaphthalene	ND	U	0.0349	0.219	mg/kg	1	10/11/18 14:58
Acenaphthene	ND	U	0.00829	0.145	mg/kg	1	10/11/18 14:58
Acenaphthylene	ND	U	0.00506	0.145	mg/kg	1	10/11/18 14:58
Anthracene	ND	U	0.0211	0.145	mg/kg	1	10/11/18 14:58
Benzo(a)anthracene	ND	U	0.0146	0.145	mg/kg	1	10/11/18 14:58
Benzo(a)pyrene	ND	U	0.0253	0.145	mg/kg	1	10/11/18 14:58
Benzo(b)fluoranthene	ND	U	0.0204	0.145	mg/kg	1	10/11/18 14:58
Benzo(g,h,i)perylene	ND	U	0.0118	0.145	mg/kg	1	10/11/18 14:58
Benzo(k)fluoranthene	ND	U	0.0167	0.145	mg/kg	1	10/11/18 14:58
Chrysene	ND	U	0.00996	0.145	mg/kg	1	10/11/18 14:58
Dibenzo(a,h)anthracene	ND	U	0.0144	0.145	mg/kg	1	10/11/18 14:58
Fluoranthene	ND	U	0.0137	0.145	mg/kg	1	10/11/18 14:58
Fluorene	ND	U	0.0121	0.145	mg/kg	1	10/11/18 14:58
Indeno(1,2,3-cd)pyrene	ND	U	0.0156	0.145	mg/kg	1	10/11/18 14:58
Naphthalene	ND	U	0.0108	0.145	mg/kg	1	10/11/18 14:58
Phenanthrene	ND	U	0.0191	0.145	mg/kg	1	10/11/18 14:58
Pyrene	ND	U	0.0107	0.145	mg/kg	1	10/11/18 14:58

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**91.5**				**%**	**1**	**10/11/18 10:54**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

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All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-11 (Soil) Sample Name: **STP-4A** Collected: **10/10/2018 12:00:00AM**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	11.0	22.1	mg/kg	1	10/12/18 12:38

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0265	0.0540	mg/kg	1	10/11/18 12:56

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**6100**		**0.0608**	**2.83**	**mg/kg**	**1**	**10/11/18 15:31**
Antimony	ND		0.00598	1.41	mg/kg	1	10/11/18 15:31
Arsenic	ND		0.0136	1.41	mg/kg	1	10/11/18 15:31
Barium	**23.3**		**0.00109**	**0.566**	**mg/kg**	**1**	**10/11/18 15:31**
Beryllium	**0.215**		**0.000102**	**0.0283**	**mg/kg**	**1**	**10/11/18 15:31**
Cadmium	ND		0.000964	0.283	mg/kg	1	10/11/18 15:31
Calcium	**634**		**0.321**	**28.3**	**mg/kg**	**1**	**10/11/18 15:31**
Chromium	**8.26**		**0.00102**	**0.283**	**mg/kg**	**1**	**10/11/18 15:31**
Cobalt	**3.51**		**0.00123**	**0.226**	**mg/kg**	**1**	**10/11/18 15:31**
Copper	**9.17**		**0.00122**	**0.283**	**mg/kg**	**1**	**10/11/18 15:31**
Iron	**10900**		**0.128**	**5.66**	**mg/kg**	**1**	**10/11/18 15:31**
Lead	**10.6**		**0.00591**	**1.41**	**mg/kg**	**1**	**10/11/18 15:31**
Magnesium	**1110**		**0.824**	**56.6**	**mg/kg**	**1**	**10/11/18 15:31**
Manganese	**209**		**0.000701**	**0.283**	**mg/kg**	**1**	**10/11/18 15:31**
Nickel	**6.25**		**0.00195**	**0.141**	**mg/kg**	**1**	**10/11/18 15:31**
Potassium	**286**		**2.66**	**113**	**mg/kg**	**1**	**10/11/18 15:31**
Selenium	ND		0.0122	1.41	mg/kg	1	10/11/18 15:31
Silver	ND		0.00337	0.566	mg/kg	1	10/11/18 15:31
Sodium	**85.2**		**0.155**	**56.6**	**mg/kg**	**1**	**10/11/18 15:31**
Thallium	ND		0.00784	1.41	mg/kg	1	10/11/18 15:31
Vanadium	**15.4**		**0.00980**	**0.566**	**mg/kg**	**1**	**10/11/18 15:31**
Zinc	**20.4**		**0.00260**	**0.849**	**mg/kg**	**1**	**10/11/18 15:31**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.122	0.221	mg/kg	1	10/11/18 15:28
2-Methylnaphthalene	ND	U	0.0352	0.221	mg/kg	1	10/11/18 15:28
Acenaphthene	ND	U	0.00837	0.147	mg/kg	1	10/11/18 15:28
Acenaphthylene	ND	U	0.00511	0.147	mg/kg	1	10/11/18 15:28
Anthracene	ND	U	0.0213	0.147	mg/kg	1	10/11/18 15:28
Benzo(a)anthracene	ND	U	0.0148	0.147	mg/kg	1	10/11/18 15:28

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-11 (Soil) Sample Name: **STP-4A** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Benzo(a)pyrene	ND	U	0.0256	0.147	mg/kg	1	10/11/18 15:28
Benzo(b)fluoranthene	ND	U	0.0206	0.147	mg/kg	1	10/11/18 15:28
Benzo(g,h,i)perylene	ND	U	0.0119	0.147	mg/kg	1	10/11/18 15:28
Benzo(k)fluoranthene	ND	U	0.0169	0.147	mg/kg	1	10/11/18 15:28
Chrysene	ND	U	0.0101	0.147	mg/kg	1	10/11/18 15:28
Dibenzo(a,h)anthracene	ND	U	0.0146	0.147	mg/kg	1	10/11/18 15:28
Fluoranthene	ND	U	0.0138	0.147	mg/kg	1	10/11/18 15:28
Fluorene	ND	U	0.0122	0.147	mg/kg	1	10/11/18 15:28
Indeno(1,2,3-cd)pyrene	ND	U	0.0158	0.147	mg/kg	1	10/11/18 15:28
Naphthalene	ND	U	0.0109	0.147	mg/kg	1	10/11/18 15:28
Phenanthrene	ND	U	0.0193	0.147	mg/kg	1	10/11/18 15:28
Pyrene	ND	U	0.0108	0.147	mg/kg	1	10/11/18 15:28

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000109	0.000746	mg/kg	1	10/10/18 22:01
1,1,2,2-Tetrachloroethane	ND	U	0.000103	0.000746	mg/kg	1	10/10/18 22:01
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000319	0.000746	mg/kg	1	10/10/18 22:01
1,1,2-Trichloroethane	ND	U	0.000126	0.000746	mg/kg	1	10/10/18 22:01
1,1-Dichloroethane	ND	U	0.000109	0.000746	mg/kg	1	10/10/18 22:01
1,1-Dichloroethene	ND	U	0.000138	0.000746	mg/kg	1	10/10/18 22:01
1,2,3-Trichlorobenzene	ND	U	0.000161	0.000746	mg/kg	1	10/10/18 22:01
1,2,4-Trichlorobenzene	ND	U	0.000199	0.000746	mg/kg	1	10/10/18 22:01
1,2,4-Trimethylbenzene	ND	U	0.000103	0.000746	mg/kg	1	10/10/18 22:01
1,2-Dibromo-3-chloropropane	ND	U	0.000182	0.000746	mg/kg	1	10/10/18 22:01
1,2-Dibromoethane	ND	U	0.0000939	0.000746	mg/kg	1	10/10/18 22:01
1,2-Dichlorobenzene	ND	U	0.000132	0.000746	mg/kg	1	10/10/18 22:01
1,2-Dichloroethane	ND	U	0.000105	0.000746	mg/kg	1	10/10/18 22:01
1,2-Dichloropropane	ND	U	0.000122	0.000746	mg/kg	1	10/10/18 22:01
1,3-Dichlorobenzene	ND	U	0.0000548	0.000746	mg/kg	1	10/10/18 22:01
1,4-Dichlorobenzene	ND	U	0.000107	0.000746	mg/kg	1	10/10/18 22:01
2-Butanone	ND	U	0.000122	0.00186	mg/kg	1	10/10/18 22:01
2-Hexanone	ND	U	0.0000697	0.000746	mg/kg	1	10/10/18 22:01
4-Methyl-2-pentanone	ND	U	0.0000932	0.000746	mg/kg	1	10/10/18 22:01
Acetone	ND	U	0.000226	0.00186	mg/kg	1	10/10/18 22:01
Benzene	ND	U	0.0000678	0.000746	mg/kg	1	10/10/18 22:01
Bromochloromethane	ND	U	0.000138	0.000746	mg/kg	1	10/10/18 22:01
Bromodichloromethane	ND	U	0.0000936	0.000746	mg/kg	1	10/10/18 22:01

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-11 (Soil) Sample Name: **STP-4A** Collected: **10/10/2018 12:00:00AM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Bromoform	ND	U	0.000131	0.000746	mg/kg	1	10/10/18 22:01
Bromomethane	ND	U	0.000215	0.000746	mg/kg	1	10/10/18 22:01
Carbon disulfide	ND	U	0.000107	0.000746	mg/kg	1	10/10/18 22:01
Carbon Tetrachloride	ND	U	0.000112	0.000746	mg/kg	1	10/10/18 22:01
Chlorobenzene	ND	U	0.000108	0.000746	mg/kg	1	10/10/18 22:01
Chlorodibromomethane	ND	U	0.0000917	0.000746	mg/kg	1	10/10/18 22:01
Chloroethane	ND	U	0.000127	0.000746	mg/kg	1	10/10/18 22:01
Chloroform	ND	U	0.000125	0.000746	mg/kg	1	10/10/18 22:01
Chloromethane	ND	U	0.000287	0.000746	mg/kg	1	10/10/18 22:01
cis-1,2-Dichloroethene	ND	U	0.0000360	0.000746	mg/kg	1	10/10/18 22:01
cis-1,3-Dichloropropene	ND	U	0.0000943	0.000746	mg/kg	1	10/10/18 22:01
Cyclohexane	ND	U	0.000165	0.000746	mg/kg	1	10/10/18 22:01
Dichlorodifluoromethane	ND	U	0.000252	0.000746	mg/kg	1	10/10/18 22:01
EthylBenzene	ND	U	0.000101	0.000746	mg/kg	1	10/10/18 22:01
Isopropylbenzene	ND	U	0.000117	0.000746	mg/kg	1	10/10/18 22:01
m+p-Xylenes	ND	U	0.000188	0.00149	mg/kg	1	10/10/18 22:01
Methyl Acetate	ND	U	0.0000988	0.000746	mg/kg	1	10/10/18 22:01
Methyl tert-Butyl Ether	ND	U	0.000126	0.000746	mg/kg	1	10/10/18 22:01
Methylcyclohexane	ND	U	0.000120	0.000746	mg/kg	1	10/10/18 22:01
Methylene Chloride	ND	U	0.000224	0.000746	mg/kg	1	10/10/18 22:01
o-Xylene	ND	U	0.0000958	0.000746	mg/kg	1	10/10/18 22:01
Styrene	ND	U	0.000107	0.000746	mg/kg	1	10/10/18 22:01
tert-Butyl alcohol	ND	U	0.00157	0.00746	mg/kg	1	10/10/18 22:01
Tetrachloroethene	ND	U	0.0000738	0.000746	mg/kg	1	10/10/18 22:01
Toluene	ND	U	0.0000600	0.000746	mg/kg	1	10/10/18 22:01
Total Xylenes	ND	U	0.0000958	0.000746	mg/kg	1	10/10/18 22:01
trans-1,2-Dichloroethene	ND	U	0.000101	0.000746	mg/kg	1	10/10/18 22:01
trans-1,3-Dichloropropene	ND	U	0.000142	0.000746	mg/kg	1	10/10/18 22:01
Trichloroethene	ND	U	0.000110	0.000746	mg/kg	1	10/10/18 22:01
Trichlorofluoromethane	ND	U	0.0000857	0.000746	mg/kg	1	10/10/18 22:01
Vinyl chloride	ND	U	0.000142	0.000746	mg/kg	1	10/10/18 22:01

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-11 (Soil) Sample Name: **STP-4A** Collected: **10/10/2018 12:00:00AM**

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**90.6**				**%**	**1**	**10/11/18 10:54**

8100452-12 (Soil) Sample Name: **STP-4B** Collected: **10/10/2018 12:00:00AM**

SW 846 8082A - PCBs

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aroclor-1016	ND	U	0.000641	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1221	ND	U	0.00111	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1232	ND	U	0.000847	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1242	ND	U	0.00122	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1248	ND	U	0.000844	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1254	ND	U	0.00128	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1260	ND	U	0.000949	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1262	ND	U	0.00139	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1268	ND	U	0.000727	0.0360	mg/kg	1	10/11/18 14:52
Total PCBs	ND	U	0.000641	0.0360	mg/kg	1	10/11/18 14:52

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.9	21.8	mg/kg	1	10/12/18 13:13

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0243	0.0495	mg/kg	1	10/11/18 12:59

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**5610**		**0.0580**	**2.70**	**mg/kg**	**1**	**10/11/18 15:33**
Antimony	ND		0.00570	1.35	mg/kg	1	10/11/18 15:33
Arsenic	ND		0.0130	1.35	mg/kg	1	10/11/18 15:33
Barium	**24.9**		**0.00104**	**0.540**	**mg/kg**	**1**	**10/11/18 15:33**
Beryllium	**0.211**		**0.0000974**	**0.0270**	**mg/kg**	**1**	**10/11/18 15:33**
Cadmium	ND		0.000920	0.270	mg/kg	1	10/11/18 15:33
Calcium	**899**		**0.307**	**27.0**	**mg/kg**	**1**	**10/11/18 15:33**
Chromium	**7.75**		**0.000971**	**0.270**	**mg/kg**	**1**	**10/11/18 15:33**
Cobalt	**3.46**		**0.00118**	**0.216**	**mg/kg**	**1**	**10/11/18 15:33**
Copper	**8.07**		**0.00117**	**0.270**	**mg/kg**	**1**	**10/11/18 15:33**
Iron	**10600**		**0.122**	**5.40**	**mg/kg**	**1**	**10/11/18 15:33**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-12 (Soil) Sample Name: **STP-4B** Collected: **10/10/2018 12:00:00AM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Lead	**8.26**		**0.00564**	**1.35**	**mg/kg**	**1**	**10/11/18 15:33**
Magnesium	**1220**		**0.786**	**54.0**	**mg/kg**	**1**	**10/11/18 15:33**
Manganese	**261**		**0.000668**	**0.270**	**mg/kg**	**1**	**10/11/18 15:33**
Nickel	**6.18**		**0.00186**	**0.135**	**mg/kg**	**1**	**10/11/18 15:33**
Potassium	**283**		**2.54**	**108**	**mg/kg**	**1**	**10/11/18 15:33**
Selenium	ND		0.0117	1.35	mg/kg	1	10/11/18 15:33
Silver	ND		0.00322	0.540	mg/kg	1	10/11/18 15:33
Sodium	**82.6**		**0.148**	**54.0**	**mg/kg**	**1**	**10/11/18 15:33**
Thallium	ND		0.00748	1.35	mg/kg	1	10/11/18 15:33
Vanadium	**14.7**		**0.00935**	**0.540**	**mg/kg**	**1**	**10/11/18 15:33**
Zinc	**23.2**		**0.00248**	**0.810**	**mg/kg**	**1**	**10/11/18 15:33**

SW 846 8081B - Pesticides

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
4,4'-DDD	ND	U	0.000858	0.00142	mg/kg	1	10/11/18 16:51
4,4'-DDE	ND	U	0.00100	0.00142	mg/kg	1	10/11/18 16:51
4,4'-DDT	ND	U	0.000681	0.00142	mg/kg	1	10/11/18 16:51
Aldrin	ND	U	0.000880	0.00142	mg/kg	1	10/11/18 16:51
alpha-BHC	ND	U	0.000549	0.00142	mg/kg	1	10/11/18 16:51
beta-BHC	ND	U	0.00140	0.00142	mg/kg	1	10/11/18 16:51
Chlordane	**0.0103**		**0.000952**	**0.00142**	**mg/kg**	**1**	**10/11/18 16:51**
delta-BHC	ND	U	0.00110	0.00142	mg/kg	1	10/11/18 16:51
Dieldrin	ND	U	0.000763	0.00142	mg/kg	1	10/11/18 16:51
Endosulfan I	ND	U	0.000981	0.00142	mg/kg	1	10/11/18 16:51
Endosulfan II	ND	U	0.000771	0.00142	mg/kg	1	10/11/18 16:51
Endosulfan sulfate	ND	U	0.000771	0.00142	mg/kg	1	10/11/18 16:51
Endrin	ND	U	0.000727	0.00142	mg/kg	1	10/11/18 16:51
Endrin aldehyde	ND	U	0.000605	0.00142	mg/kg	1	10/11/18 16:51
Endrin ketone	ND	U	0.000865	0.00142	mg/kg	1	10/11/18 16:51
gamma-BHC (Lindane)	ND	U	0.000648	0.00142	mg/kg	1	10/11/18 16:51
Heptachlor	ND	U	0.000829	0.00142	mg/kg	1	10/11/18 16:51
Heptachlor Epoxide	ND	U	0.000887	0.00142	mg/kg	1	10/11/18 16:51
Methoxychlor	ND	U	0.000902	0.00142	mg/kg	1	10/11/18 16:51
Toxaphene	ND	U	0.0220	0.0720	mg/kg	1	10/11/18 16:51

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B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-12 (Soil) Sample Name: **STP-4B** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.0348	0.218	mg/kg	1	10/11/18 15:57
2,3,4,6-Tetrachlorophenol	ND	U	0.0224	0.145	mg/kg	1	10/11/18 15:57
2,4,5-Trichlorophenol	ND	U	0.0197	0.145	mg/kg	1	10/11/18 15:57
2,4,6-Trichlorophenol	ND	U	0.00908	0.145	mg/kg	1	10/11/18 15:57
2,4-Dichlorophenol	ND	U	0.0146	0.145	mg/kg	1	10/11/18 15:57
2,4-Dimethylphenol	ND	U	0.0143	0.145	mg/kg	1	10/11/18 15:57
2,4-Dinitrophenol	ND	U	0.0209	0.727	mg/kg	1	10/11/18 15:57
2,4-Dinitrotoluene	ND	U	0.0155	0.145	mg/kg	1	10/11/18 15:57
2,6-Dinitrotoluene	ND	U	0.0347	0.145	mg/kg	1	10/11/18 15:57
2-Chloronaphthalene	ND	U	0.0167	0.145	mg/kg	1	10/11/18 15:57
2-Chlorophenol	ND	U	0.0192	0.145	mg/kg	1	10/11/18 15:57
2-Methylnaphthalene	ND	U	0.0348	0.218	mg/kg	1	10/11/18 15:57
2-Methylphenol	ND	U	0.0287	0.145	mg/kg	1	10/11/18 15:57
2-Nitroaniline	ND	U	0.0117	0.145	mg/kg	1	10/11/18 15:57
2-Nitrophenol	ND	U	0.0161	0.145	mg/kg	1	10/11/18 15:57
3,3'-Dichlorobenzidine	ND	U	0.0153	0.145	mg/kg	1	10/11/18 15:57
3+4-Methylphenol	ND	U	0.0266	0.145	mg/kg	1	10/11/18 15:57
3-Nitroaniline	ND	U	0.0269	0.145	mg/kg	1	10/11/18 15:57
4,6-Dinitro-2-methylphenol	ND	U	0.0274	0.363	mg/kg	1	10/11/18 15:57
4-Bromophenyl-phenyl ether	ND	U	0.0207	0.145	mg/kg	1	10/11/18 15:57
4-Chloro-3-methylphenol	ND	U	0.0229	0.145	mg/kg	1	10/11/18 15:57
4-Chloroaniline	ND	U	0.00508	0.145	mg/kg	1	10/11/18 15:57
4-Chlorophenyl phenyl ether	ND	U	0.00784	0.145	mg/kg	1	10/11/18 15:57
4-Nitroaniline	ND	U	0.0726	0.145	mg/kg	1	10/11/18 15:57
4-Nitrophenol	ND	U	0.00929	0.145	mg/kg	1	10/11/18 15:57
Acenaphthene	ND	U	0.00828	0.145	mg/kg	1	10/11/18 15:57
Acenaphthylene	ND	U	0.00505	0.145	mg/kg	1	10/11/18 15:57
Acetophenone	ND	U	0.0144	0.145	mg/kg	1	10/11/18 15:57
Anthracene	ND	U	0.0210	0.145	mg/kg	1	10/11/18 15:57
Atrazine	ND	U	0.0136	0.145	mg/kg	1	10/11/18 15:57
Benzaldehyde	ND	U	0.0446	0.145	mg/kg	1	10/11/18 15:57
Benzo(a)anthracene	ND	U	0.0146	0.145	mg/kg	1	10/11/18 15:57
Benzo(a)pyrene	ND	U	0.0253	0.145	mg/kg	1	10/11/18 15:57
Benzo(b)fluoranthene	ND	U	0.0204	0.145	mg/kg	1	10/11/18 15:57
Benzo(g,h,i)perylene	ND	U	0.0118	0.145	mg/kg	1	10/11/18 15:57
Benzo(k)fluoranthene	ND	U	0.0167	0.145	mg/kg	1	10/11/18 15:57
Biphenyl	ND	U	0.0128	0.145	mg/kg	1	10/11/18 15:57
bis(2-chloroethoxy)methane	ND	U	0.0201	0.145	mg/kg	1	10/11/18 15:57
bis(2-chloroethyl)ether	ND	U	0.0159	0.145	mg/kg	1	10/11/18 15:57

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-12 (Soil) Sample Name: **STP-4B** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
bis(2-chloroisopropyl)ether	ND	U	0.0522	0.145	mg/kg	1	10/11/18 15:57
bis(2-ethylhexyl)phthalate	ND	U	0.0290	0.145	mg/kg	1	10/11/18 15:57
Butylbenzylphthalate	ND	U	0.0132	0.145	mg/kg	1	10/11/18 15:57
Caprolactam	ND	U	0.0188	0.145	mg/kg	1	10/11/18 15:57
Carbazole	ND	U	0.0279	0.363	mg/kg	1	10/11/18 15:57
Chrysene	ND	U	0.00995	0.145	mg/kg	1	10/11/18 15:57
Dibenzo(a,h)anthracene	ND	U	0.0144	0.145	mg/kg	1	10/11/18 15:57
Dibenzofuran	ND	U	0.00865	0.145	mg/kg	1	10/11/18 15:57
Diethylphthalate	ND	U	0.0281	0.145	mg/kg	1	10/11/18 15:57
Dimethylphthalate	**0.0632**	**J**	**0.00901**	**0.145**	**mg/kg**	**1**	**10/11/18 15:57**
Di-n-butylphthalate	ND	U	0.0593	0.145	mg/kg	1	10/11/18 15:57
Di-n-octylphthalate	ND	U	0.0298	0.145	mg/kg	1	10/11/18 15:57
Fluoranthene	ND	U	0.0136	0.145	mg/kg	1	10/11/18 15:57
Fluorene	ND	U	0.0121	0.145	mg/kg	1	10/11/18 15:57
Hexachlorobenzene	ND	U	0.0190	0.145	mg/kg	1	10/11/18 15:57
Hexachlorobutadiene	ND	U	0.0697	0.145	mg/kg	1	10/11/18 15:57
Hexachlorocyclopentadiene	ND	U	0.0605	0.363	mg/kg	1	10/11/18 15:57
Hexachloroethane	ND	U	0.0159	0.145	mg/kg	1	10/11/18 15:57
Indeno(1,2,3-cd)pyrene	ND	U	0.0156	0.145	mg/kg	1	10/11/18 15:57
Isophorone	ND	U	0.00951	0.145	mg/kg	1	10/11/18 15:57
Naphthalene	ND	U	0.0108	0.145	mg/kg	1	10/11/18 15:57
Nitrobenzene	ND	U	0.0246	0.145	mg/kg	1	10/11/18 15:57
n-Nitroso-di-n-propylamine	ND	U	0.00778	0.145	mg/kg	1	10/11/18 15:57
n-Nitrosodiphenylamine	ND	U	0.0310	0.145	mg/kg	1	10/11/18 15:57
Phenanthrene	ND	U	0.0191	0.145	mg/kg	1	10/11/18 15:57
Phenol	ND	U	0.0118	0.145	mg/kg	1	10/11/18 15:57
Pyrene	ND	U	0.0107	0.145	mg/kg	1	10/11/18 15:57

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000129	0.000887	mg/kg	1	10/10/18 22:30
1,1,2,2-Tetrachloroethane	ND	U	0.000122	0.000887	mg/kg	1	10/10/18 22:30
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000379	0.000887	mg/kg	1	10/10/18 22:30
1,1,2-Trichloroethane	ND	U	0.000149	0.000887	mg/kg	1	10/10/18 22:30

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-12 (Soil) Sample Name: **STP-4B** Collected: **10/10/2018 12:00:00AM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1-Dichloroethane	ND	U	0.000129	0.000887	mg/kg	1	10/10/18 22:30
1,1-Dichloroethene	ND	U	0.000164	0.000887	mg/kg	1	10/10/18 22:30
1,2,3-Trichlorobenzene	ND	U	0.000192	0.000887	mg/kg	1	10/10/18 22:30
1,2,4-Trichlorobenzene	ND	U	0.000236	0.000887	mg/kg	1	10/10/18 22:30
1,2,4-Trimethylbenzene	ND	U	0.000122	0.000887	mg/kg	1	10/10/18 22:30
1,2-Dibromo-3-chloropropane	ND	U	0.000216	0.000887	mg/kg	1	10/10/18 22:30
1,2-Dibromoethane	ND	U	0.000112	0.000887	mg/kg	1	10/10/18 22:30
1,2-Dichlorobenzene	ND	U	0.000156	0.000887	mg/kg	1	10/10/18 22:30
1,2-Dichloroethane	ND	U	0.000125	0.000887	mg/kg	1	10/10/18 22:30
1,2-Dichloropropane	ND	U	0.000145	0.000887	mg/kg	1	10/10/18 22:30
1,3-Dichlorobenzene	ND	U	0.0000652	0.000887	mg/kg	1	10/10/18 22:30
1,4-Dichlorobenzene	ND	U	0.000128	0.000887	mg/kg	1	10/10/18 22:30
2-Butanone	ND	U	0.000145	0.00222	mg/kg	1	10/10/18 22:30
2-Hexanone	ND	U	0.0000829	0.000887	mg/kg	1	10/10/18 22:30
4-Methyl-2-pentanone	ND	U	0.000111	0.000887	mg/kg	1	10/10/18 22:30
Acetone	ND	U	0.000269	0.00222	mg/kg	1	10/10/18 22:30
Benzene	ND	U	0.0000807	0.000887	mg/kg	1	10/10/18 22:30
Bromochloromethane	ND	U	0.000164	0.000887	mg/kg	1	10/10/18 22:30
Bromodichloromethane	ND	U	0.000111	0.000887	mg/kg	1	10/10/18 22:30
Bromoform	ND	U	0.000156	0.000887	mg/kg	1	10/10/18 22:30
Bromomethane	ND	U	0.000256	0.000887	mg/kg	1	10/10/18 22:30
Carbon disulfide	ND	U	0.000127	0.000887	mg/kg	1	10/10/18 22:30
Carbon Tetrachloride	ND	U	0.000133	0.000887	mg/kg	1	10/10/18 22:30
Chlorobenzene	ND	U	0.000129	0.000887	mg/kg	1	10/10/18 22:30
Chlorodibromomethane	ND	U	0.000109	0.000887	mg/kg	1	10/10/18 22:30
Chloroethane	ND	U	0.000151	0.000887	mg/kg	1	10/10/18 22:30
Chloroform	ND	U	0.000149	0.000887	mg/kg	1	10/10/18 22:30
Chloromethane	ND	U	0.000341	0.000887	mg/kg	1	10/10/18 22:30
cis-1,2-Dichloroethene	ND	U	0.0000429	0.000887	mg/kg	1	10/10/18 22:30
cis-1,3-Dichloropropene	ND	U	0.000112	0.000887	mg/kg	1	10/10/18 22:30
Cyclohexane	ND	U	0.000196	0.000887	mg/kg	1	10/10/18 22:30
Dichlorodifluoromethane	ND	U	0.000299	0.000887	mg/kg	1	10/10/18 22:30
EthylBenzene	ND	U	0.000120	0.000887	mg/kg	1	10/10/18 22:30
Isopropylbenzene	ND	U	0.000139	0.000887	mg/kg	1	10/10/18 22:30
m+p-Xylenes	ND	U	0.000224	0.00177	mg/kg	1	10/10/18 22:30
Methyl Acetate	ND	U	0.000117	0.000887	mg/kg	1	10/10/18 22:30
Methyl tert-Butyl Ether	ND	U	0.000150	0.000887	mg/kg	1	10/10/18 22:30
Methylcyclohexane	ND	U	0.000143	0.000887	mg/kg	1	10/10/18 22:30
Methylene Chloride	ND	U	0.000266	0.000887	mg/kg	1	10/10/18 22:30

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-12 (Soil) Sample Name: STP-4B Collected: 10/10/2018 12:00:00AM

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
o-Xylene	ND	U	0.000114	0.000887	mg/kg	1	10/10/18 22:30
Styrene	ND	U	0.000127	0.000887	mg/kg	1	10/10/18 22:30
tert-Butyl alcohol	ND	U	0.00186	0.00887	mg/kg	1	10/10/18 22:30
Tetrachloroethene	ND	U	0.0000878	0.000887	mg/kg	1	10/10/18 22:30
Toluene	ND	U	0.0000714	0.000887	mg/kg	1	10/10/18 22:30
Total Xylenes	ND	U	0.000114	0.000887	mg/kg	1	10/10/18 22:30
trans-1,2-Dichloroethene	ND	U	0.000120	0.000887	mg/kg	1	10/10/18 22:30
trans-1,3-Dichloropropene	ND	U	0.000169	0.000887	mg/kg	1	10/10/18 22:30
Trichloroethene	ND	U	0.000130	0.000887	mg/kg	1	10/10/18 22:30
Trichlorofluoromethane	ND	U	0.000102	0.000887	mg/kg	1	10/10/18 22:30
Vinyl chloride	ND	U	0.000168	0.000887	mg/kg	1	10/10/18 22:30

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**91.7**				**%**	**1**	**10/11/18 10:54**

SW 846 9014 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Cyanide	ND		0.0818	0.273	mg/kg	1	10/11/18 13:30

8100452-13 (Soil) Sample Name: STP-5 Collected: 10/10/2018 12:00:00AM

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.8	21.6	mg/kg	1	10/12/18 15:07

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0254	0.0518	mg/kg	1	10/11/18 13:02

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-13 (Soil) Sample Name: **STP-5** Collected: **10/10/2018 12:00:00AM**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**6860**		**0.0617**	**2.87**	**mg/kg**	**1**	**10/11/18 15:37**
Antimony	ND		0.00606	1.44	mg/kg	1	10/11/18 15:37
Arsenic	**3.01**		**0.0138**	**1.44**	**mg/kg**	**1**	**10/11/18 15:37**
Barium	**23.0**		**0.00111**	**0.574**	**mg/kg**	**1**	**10/11/18 15:37**
Beryllium	**0.256**		**0.000104**	**0.0287**	**mg/kg**	**1**	**10/11/18 15:37**
Cadmium	ND		0.000978	0.287	mg/kg	1	10/11/18 15:37
Calcium	**310**		**0.326**	**28.7**	**mg/kg**	**1**	**10/11/18 15:37**
Chromium	**8.30**		**0.00103**	**0.287**	**mg/kg**	**1**	**10/11/18 15:37**
Cobalt	**4.74**		**0.00125**	**0.230**	**mg/kg**	**1**	**10/11/18 15:37**
Copper	**9.68**		**0.00124**	**0.287**	**mg/kg**	**1**	**10/11/18 15:37**
Iron	**15100**		**0.130**	**5.74**	**mg/kg**	**1**	**10/11/18 15:37**
Lead	**5.25**		**0.00599**	**1.44**	**mg/kg**	**1**	**10/11/18 15:37**
Magnesium	**1150**		**0.836**	**57.4**	**mg/kg**	**1**	**10/11/18 15:37**
Manganese	**333**		**0.000711**	**0.287**	**mg/kg**	**1**	**10/11/18 15:37**
Nickel	**7.29**		**0.00198**	**0.144**	**mg/kg**	**1**	**10/11/18 15:37**
Potassium	**241**		**2.70**	**115**	**mg/kg**	**1**	**10/11/18 15:37**
Selenium	ND		0.0124	1.44	mg/kg	1	10/11/18 15:37
Silver	ND		0.00342	0.574	mg/kg	1	10/11/18 15:37
Sodium	ND		0.157	57.4	mg/kg	1	10/11/18 15:37
Thallium	ND		0.00796	1.44	mg/kg	1	10/11/18 15:37
Vanadium	**17.3**		**0.00995**	**0.574**	**mg/kg**	**1**	**10/11/18 15:37**
Zinc	**39.9**		**0.00264**	**0.861**	**mg/kg**	**1**	**10/11/18 15:37**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.120	0.216	mg/kg	1	10/11/18 16:27
2-Methylnaphthalene	ND	U	0.0344	0.216	mg/kg	1	10/11/18 16:27
Acenaphthene	ND	U	0.00819	0.144	mg/kg	1	10/11/18 16:27
Acenaphthylene	ND	U	0.00500	0.144	mg/kg	1	10/11/18 16:27
Anthracene	ND	U	0.0208	0.144	mg/kg	1	10/11/18 16:27
Benzo(a)anthracene	ND	U	0.0145	0.144	mg/kg	1	10/11/18 16:27
Benzo(a)pyrene	ND	U	0.0250	0.144	mg/kg	1	10/11/18 16:27
Benzo(b)fluoranthene	ND	U	0.0202	0.144	mg/kg	1	10/11/18 16:27
Benzo(g,h,i)perylene	ND	U	0.0117	0.144	mg/kg	1	10/11/18 16:27
Benzo(k)fluoranthene	ND	U	0.0165	0.144	mg/kg	1	10/11/18 16:27
Chrysene	ND	U	0.00985	0.144	mg/kg	1	10/11/18 16:27
Dibenzo(a,h)anthracene	ND	U	0.0142	0.144	mg/kg	1	10/11/18 16:27
Fluoranthene	ND	U	0.0135	0.144	mg/kg	1	10/11/18 16:27
Fluorene	ND	U	0.0120	0.144	mg/kg	1	10/11/18 16:27

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-13 (Soil) Sample Name: **STP-5** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Indeno(1,2,3-cd)pyrene	ND	U	0.0154	0.144	mg/kg	1	10/11/18 16:27
Naphthalene	ND	U	0.0106	0.144	mg/kg	1	10/11/18 16:27
Phenanthrene	ND	U	0.0189	0.144	mg/kg	1	10/11/18 16:27
Pyrene	ND	U	0.0106	0.144	mg/kg	1	10/11/18 16:27

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**92.6**				**%**	**1**	**10/11/18 10:54**

8100452-14 (Soil) Sample Name: **STP-7** Collected: **10/10/2018 12:00:00AM**

SW 846 8082A - PCBs

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aroclor-1016	ND	U	0.000633	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1221	ND	U	0.00109	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1232	ND	U	0.000836	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1242	ND	U	0.00121	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1248	ND	U	0.000833	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1254	ND	U	0.00127	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1260	ND	U	0.000936	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1262	ND	U	0.00137	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1268	ND	U	0.000718	0.0355	mg/kg	1	10/11/18 15:17
Total PCBs	ND	U	0.000633	0.0355	mg/kg	1	10/11/18 15:17

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.8	21.5	mg/kg	1	10/12/18 15:42

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0227	0.0463	mg/kg	1	10/11/18 13:05

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**4650**		**0.0545**	**2.54**	**mg/kg**	**1**	**10/11/18 15:39**
Antimony	ND		0.00536	1.27	mg/kg	1	10/11/18 15:39
Arsenic	**1.49**		**0.0122**	**1.27**	**mg/kg**	**1**	**10/11/18 15:39**
Barium	**18.5**		**0.000979**	**0.508**	**mg/kg**	**1**	**10/11/18 15:39**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-14 (Soil) Sample Name: **STP-7** Collected: **10/10/2018 12:00:00AM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Beryllium	**0.178**		**0.0000916**	**0.0254**	**mg/kg**	**1**	**10/11/18 15:39**
Cadmium	ND		0.000865	0.254	mg/kg	1	10/11/18 15:39
Calcium	**294**		**0.288**	**25.4**	**mg/kg**	**1**	**10/11/18 15:39**
Chromium	**6.14**		**0.000913**	**0.254**	**mg/kg**	**1**	**10/11/18 15:39**
Cobalt	**2.97**		**0.00111**	**0.203**	**mg/kg**	**1**	**10/11/18 15:39**
Copper	**6.73**		**0.00110**	**0.254**	**mg/kg**	**1**	**10/11/18 15:39**
Iron	**9110**		**0.115**	**5.08**	**mg/kg**	**1**	**10/11/18 15:39**
Lead	**4.31**		**0.00530**	**1.27**	**mg/kg**	**1**	**10/11/18 15:39**
Magnesium	**910**		**0.739**	**50.8**	**mg/kg**	**1**	**10/11/18 15:39**
Manganese	**240**		**0.000628**	**0.254**	**mg/kg**	**1**	**10/11/18 15:39**
Nickel	**5.05**		**0.00175**	**0.127**	**mg/kg**	**1**	**10/11/18 15:39**
Potassium	**210**		**2.39**	**102**	**mg/kg**	**1**	**10/11/18 15:39**
Selenium	ND		0.0110	1.27	mg/kg	1	10/11/18 15:39
Silver	ND		0.00303	0.508	mg/kg	1	10/11/18 15:39
Sodium	**52.0**		**0.139**	**50.8**	**mg/kg**	**1**	**10/11/18 15:39**
Thallium	ND		0.00703	1.27	mg/kg	1	10/11/18 15:39
Vanadium	**11.8**		**0.00879**	**0.508**	**mg/kg**	**1**	**10/11/18 15:39**
Zinc	**24.1**		**0.00233**	**0.761**	**mg/kg**	**1**	**10/11/18 15:39**

SW 846 8081B - Pesticides

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
4,4'-DDD	ND	U	0.000847	0.00140	mg/kg	1	10/11/18 17:14
4,4'-DDE	ND	U	0.000990	0.00140	mg/kg	1	10/11/18 17:14
4,4'-DDT [2C]	**0.00928**		**0.000586**	**0.00140**	**mg/kg**	**1**	**10/11/18 17:14**
Aldrin	ND	U	0.000868	0.00140	mg/kg	1	10/11/18 17:14
alpha-BHC	ND	U	0.000541	0.00140	mg/kg	1	10/11/18 17:14
beta-BHC	ND	U	0.00138	0.00140	mg/kg	1	10/11/18 17:14
Chlordane	**0.0136**		**0.000939**	**0.00140**	**mg/kg**	**1**	**10/11/18 17:14**
delta-BHC	ND	U	0.00108	0.00140	mg/kg	1	10/11/18 17:14
Dieldrin	ND	U	0.000753	0.00140	mg/kg	1	10/11/18 17:14
Endosulfan I	ND	U	0.000968	0.00140	mg/kg	1	10/11/18 17:14
Endosulfan II	ND	U	0.000761	0.00140	mg/kg	1	10/11/18 17:14
Endosulfan sulfate	ND	U	0.000761	0.00140	mg/kg	1	10/11/18 17:14
Endrin	ND	U	0.000718	0.00140	mg/kg	1	10/11/18 17:14
Endrin aldehyde	ND	U	0.000597	0.00140	mg/kg	1	10/11/18 17:14
Endrin ketone	ND	U	0.000853	0.00140	mg/kg	1	10/11/18 17:14
gamma-BHC (Lindane)	ND	U	0.000639	0.00140	mg/kg	1	10/11/18 17:14
Heptachlor	ND	U	0.000818	0.00140	mg/kg	1	10/11/18 17:14
Heptachlor Epoxide	ND	U	0.000875	0.00140	mg/kg	1	10/11/18 17:14

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-14 (Soil) Sample Name: **STP-7** Collected: **10/10/2018 12:00:00AM**

SW 846 8081B - Pesticides (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Methoxychlor	ND	U	0.000890	0.00140	mg/kg	1	10/11/18 17:14
Toxaphene	ND	U	0.0217	0.0710	mg/kg	1	10/11/18 17:14

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.0343	0.215	mg/kg	1	10/11/18 16:57
2,3,4,6-Tetrachlorophenol	ND	U	0.0221	0.143	mg/kg	1	10/11/18 16:57
2,4,5-Trichlorophenol	ND	U	0.0195	0.143	mg/kg	1	10/11/18 16:57
2,4,6-Trichlorophenol	ND	U	0.00896	0.143	mg/kg	1	10/11/18 16:57
2,4-Dichlorophenol	ND	U	0.0144	0.143	mg/kg	1	10/11/18 16:57
2,4-Dimethylphenol	ND	U	0.0141	0.143	mg/kg	1	10/11/18 16:57
2,4-Dinitrophenol	ND	U	0.0207	0.718	mg/kg	1	10/11/18 16:57
2,4-Dinitrotoluene	ND	U	0.0153	0.143	mg/kg	1	10/11/18 16:57
2,6-Dinitrotoluene	ND	U	0.0342	0.143	mg/kg	1	10/11/18 16:57
2-Chloronaphthalene	ND	U	0.0165	0.143	mg/kg	1	10/11/18 16:57
2-Chlorophenol	ND	U	0.0189	0.143	mg/kg	1	10/11/18 16:57
2-Methylnaphthalene	ND	U	0.0343	0.215	mg/kg	1	10/11/18 16:57
2-Methylphenol	ND	U	0.0283	0.143	mg/kg	1	10/11/18 16:57
2-Nitroaniline	ND	U	0.0115	0.143	mg/kg	1	10/11/18 16:57
2-Nitrophenol	ND	U	0.0159	0.143	mg/kg	1	10/11/18 16:57
3,3'-Dichlorobenzidine	ND	U	0.0151	0.143	mg/kg	1	10/11/18 16:57
3+4-Methylphenol	ND	U	0.0263	0.143	mg/kg	1	10/11/18 16:57
3-Nitroaniline	ND	U	0.0266	0.143	mg/kg	1	10/11/18 16:57
4,6-Dinitro-2-methylphenol	ND	U	0.0270	0.358	mg/kg	1	10/11/18 16:57
4-Bromophenyl-phenyl ether	ND	U	0.0204	0.143	mg/kg	1	10/11/18 16:57
4-Chloro-3-methylphenol	ND	U	0.0226	0.143	mg/kg	1	10/11/18 16:57
4-Chloroaniline	ND	U	0.00501	0.143	mg/kg	1	10/11/18 16:57
4-Chlorophenyl phenyl ether	ND	U	0.00774	0.143	mg/kg	1	10/11/18 16:57
4-Nitroaniline	ND	U	0.0717	0.143	mg/kg	1	10/11/18 16:57
4-Nitrophenol	ND	U	0.00917	0.143	mg/kg	1	10/11/18 16:57
Acenaphthene	ND	U	0.00817	0.143	mg/kg	1	10/11/18 16:57
Acenaphthylene	ND	U	0.00498	0.143	mg/kg	1	10/11/18 16:57
Acetophenone	ND	U	0.0142	0.143	mg/kg	1	10/11/18 16:57
Anthracene	ND	U	0.0208	0.143	mg/kg	1	10/11/18 16:57
Atrazine	ND	U	0.0135	0.143	mg/kg	1	10/11/18 16:57
Benzaldehyde	ND	U	0.0440	0.143	mg/kg	1	10/11/18 16:57
Benzo(a)anthracene	ND	U	0.0144	0.143	mg/kg	1	10/11/18 16:57
Benzo(a)pyrene	ND	U	0.0250	0.143	mg/kg	1	10/11/18 16:57
Benzo(b)fluoranthene	ND	U	0.0201	0.143	mg/kg	1	10/11/18 16:57

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-14 (Soil) Sample Name: **STP-7** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Benzo(g,h,i)perylene	ND	U	0.0116	0.143	mg/kg	1	10/11/18 16:57
Benzo(k)fluoranthene	ND	U	0.0165	0.143	mg/kg	1	10/11/18 16:57
Biphenyl	ND	U	0.0126	0.143	mg/kg	1	10/11/18 16:57
bis(2-chloroethoxy)methane	ND	U	0.0198	0.143	mg/kg	1	10/11/18 16:57
bis(2-chloroethyl)ether	ND	U	0.0157	0.143	mg/kg	1	10/11/18 16:57
bis(2-chloroisopropyl)ether	ND	U	0.0515	0.143	mg/kg	1	10/11/18 16:57
bis(2-ethylhexyl)phthalate	ND	U	0.0286	0.143	mg/kg	1	10/11/18 16:57
Butylbenzylphthalate	ND	U	0.0130	0.143	mg/kg	1	10/11/18 16:57
Caprolactam	ND	U	0.0185	0.143	mg/kg	1	10/11/18 16:57
Carbazole	ND	U	0.0275	0.358	mg/kg	1	10/11/18 16:57
Chrysene	ND	U	0.00981	0.143	mg/kg	1	10/11/18 16:57
Dibenzo(a,h)anthracene	ND	U	0.0142	0.143	mg/kg	1	10/11/18 16:57
Dibenzofuran	ND	U	0.00853	0.143	mg/kg	1	10/11/18 16:57
Diethylphthalate	ND	U	0.0278	0.143	mg/kg	1	10/11/18 16:57
Dimethylphthalate	ND	U	0.00889	0.143	mg/kg	1	10/11/18 16:57
Di-n-butylphthalate	ND	U	0.0585	0.143	mg/kg	1	10/11/18 16:57
Di-n-octylphthalate	ND	U	0.0294	0.143	mg/kg	1	10/11/18 16:57
Fluoranthene	ND	U	0.0135	0.143	mg/kg	1	10/11/18 16:57
Fluorene	ND	U	0.0119	0.143	mg/kg	1	10/11/18 16:57
Hexachlorobenzene	ND	U	0.0187	0.143	mg/kg	1	10/11/18 16:57
Hexachlorobutadiene	ND	U	0.0688	0.143	mg/kg	1	10/11/18 16:57
Hexachlorocyclopentadiene	ND	U	0.0597	0.358	mg/kg	1	10/11/18 16:57
Hexachloroethane	ND	U	0.0157	0.143	mg/kg	1	10/11/18 16:57
Indeno(1,2,3-cd)pyrene	ND	U	0.0154	0.143	mg/kg	1	10/11/18 16:57
Isophorone	ND	U	0.00938	0.143	mg/kg	1	10/11/18 16:57
Naphthalene	ND	U	0.0106	0.143	mg/kg	1	10/11/18 16:57
Nitrobenzene	ND	U	0.0243	0.143	mg/kg	1	10/11/18 16:57
n-Nitroso-di-n-propylamine	ND	U	0.00767	0.143	mg/kg	1	10/11/18 16:57
n-Nitrosodiphenylamine	ND	U	0.0306	0.143	mg/kg	1	10/11/18 16:57
Phenanthrene	ND	U	0.0188	0.143	mg/kg	1	10/11/18 16:57
Phenol	ND	U	0.0116	0.143	mg/kg	1	10/11/18 16:57
Pyrene	ND	U	0.0105	0.143	mg/kg	1	10/11/18 16:57

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

APL

AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

All Results Summary

Client: Peak Environmental
Project: Ridgewood

Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-14 (Soil) Sample Name: **STP-7** Collected: **10/10/2018 12:00:00AM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000133	0.000912	mg/kg	1	10/10/18 22:59
1,1,2,2-Tetrachloroethane	ND	U	0.000126	0.000912	mg/kg	1	10/10/18 22:59
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000390	0.000912	mg/kg	1	10/10/18 22:59
1,1,2-Trichloroethane	ND	U	0.000154	0.000912	mg/kg	1	10/10/18 22:59
1,1-Dichloroethane	ND	U	0.000133	0.000912	mg/kg	1	10/10/18 22:59
1,1-Dichloroethene	ND	U	0.000169	0.000912	mg/kg	1	10/10/18 22:59
1,2,3-Trichlorobenzene	ND	U	0.000197	0.000912	mg/kg	1	10/10/18 22:59
1,2,4-Trichlorobenzene	ND	U	0.000243	0.000912	mg/kg	1	10/10/18 22:59
1,2,4-Trimethylbenzene	ND	U	0.000126	0.000912	mg/kg	1	10/10/18 22:59
1,2-Dibromo-3-chloropropane	ND	U	0.000222	0.000912	mg/kg	1	10/10/18 22:59
1,2-Dibromoethane	ND	U	0.000115	0.000912	mg/kg	1	10/10/18 22:59
1,2-Dichlorobenzene	ND	U	0.000161	0.000912	mg/kg	1	10/10/18 22:59
1,2-Dichloroethane	ND	U	0.000129	0.000912	mg/kg	1	10/10/18 22:59
1,2-Dichloropropane	ND	U	0.000150	0.000912	mg/kg	1	10/10/18 22:59
1,3-Dichlorobenzene	ND	U	0.0000670	0.000912	mg/kg	1	10/10/18 22:59
1,4-Dichlorobenzene	ND	U	0.000131	0.000912	mg/kg	1	10/10/18 22:59
2-Butanone	ND	U	0.000149	0.00228	mg/kg	1	10/10/18 22:59
2-Hexanone	ND	U	0.0000853	0.000912	mg/kg	1	10/10/18 22:59
4-Methyl-2-pentanone	ND	U	0.000114	0.000912	mg/kg	1	10/10/18 22:59
Acetone	ND	U	0.000276	0.00228	mg/kg	1	10/10/18 22:59
Benzene	ND	U	0.0000830	0.000912	mg/kg	1	10/10/18 22:59
Bromochloromethane	ND	U	0.000168	0.000912	mg/kg	1	10/10/18 22:59
Bromodichloromethane	ND	U	0.000114	0.000912	mg/kg	1	10/10/18 22:59
Bromoform	ND	U	0.000160	0.000912	mg/kg	1	10/10/18 22:59
Bromomethane	ND	U	0.000263	0.000912	mg/kg	1	10/10/18 22:59
Carbon disulfide	ND	U	0.000131	0.000912	mg/kg	1	10/10/18 22:59
Carbon Tetrachloride	ND	U	0.000137	0.000912	mg/kg	1	10/10/18 22:59
Chlorobenzene	ND	U	0.000132	0.000912	mg/kg	1	10/10/18 22:59
Chlorodibromomethane	ND	U	0.000112	0.000912	mg/kg	1	10/10/18 22:59
Chloroethane	ND	U	0.000155	0.000912	mg/kg	1	10/10/18 22:59
Chloroform	ND	U	0.000153	0.000912	mg/kg	1	10/10/18 22:59
Chloromethane	ND	U	0.000351	0.000912	mg/kg	1	10/10/18 22:59
cis-1,2-Dichloroethene	ND	U	0.0000441	0.000912	mg/kg	1	10/10/18 22:59
cis-1,3-Dichloropropene	ND	U	0.000115	0.000912	mg/kg	1	10/10/18 22:59
Cyclohexane	ND	U	0.000202	0.000912	mg/kg	1	10/10/18 22:59
Dichlorodifluoromethane	ND	U	0.000308	0.000912	mg/kg	1	10/10/18 22:59
EthylBenzene	ND	U	0.000124	0.000912	mg/kg	1	10/10/18 22:59
Isopropylbenzene	ND	U	0.000143	0.000912	mg/kg	1	10/10/18 22:59

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-14 (Soil) Sample Name: **STP-7** Collected: **10/10/2018 12:00:00AM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
m+p-Xylenes	ND	U	0.000230	0.00182	mg/kg	1	10/10/18 22:59
Methyl Acetate	ND	U	0.000121	0.000912	mg/kg	1	10/10/18 22:59
Methyl tert-Butyl Ether	ND	U	0.000154	0.000912	mg/kg	1	10/10/18 22:59
Methylcyclohexane	ND	U	0.000147	0.000912	mg/kg	1	10/10/18 22:59
Methylene Chloride	ND	U	0.000274	0.000912	mg/kg	1	10/10/18 22:59
o-Xylene	ND	U	0.000117	0.000912	mg/kg	1	10/10/18 22:59
Styrene	ND	U	0.000130	0.000912	mg/kg	1	10/10/18 22:59
tert-Butyl alcohol	ND	U	0.00191	0.00912	mg/kg	1	10/10/18 22:59
Tetrachloroethene	ND	U	0.0000903	0.000912	mg/kg	1	10/10/18 22:59
Toluene	ND	U	0.0000734	0.000912	mg/kg	1	10/10/18 22:59
Total Xylenes	ND	U	0.000117	0.000912	mg/kg	1	10/10/18 22:59
trans-1,2-Dichloroethene	ND	U	0.000124	0.000912	mg/kg	1	10/10/18 22:59
trans-1,3-Dichloropropene	ND	U	0.000174	0.000912	mg/kg	1	10/10/18 22:59
Trichloroethene	ND	U	0.000134	0.000912	mg/kg	1	10/10/18 22:59
Trichlorofluoromethane	ND	U	0.000105	0.000912	mg/kg	1	10/10/18 22:59
Vinyl chloride	ND	U	0.000173	0.000912	mg/kg	1	10/10/18 22:59

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**92.9**				**%**	**1**	**10/11/18 10:54**

SW 846 9014 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Cyanide	ND		0.0807	0.269	mg/kg	1	10/11/18 13:30

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

PCBs

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

PCBs - SW 846 8082A

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1064-BLK1**		

Init/Final Vol:	15 g / 10 mL	Prep Date:	10/10/2018 16:36	File ID:	6B23444.D
		Prep Batch:	B8J1064	Analyzed:	10/12/2018 19:13
		Matrix:	Soil	Sequence:	S8J1201
		Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	ND	0.000588	0.0330	U
11104-28-2	Aroclor-1221	ND	0.00102	0.0330	U
11141-16-5	Aroclor-1232	ND	0.000777	0.0330	U
53469-21-9	Aroclor-1242	ND	0.00112	0.0330	U
12672-29-6	Aroclor-1248	ND	0.000774	0.0330	U
11097-69-1	Aroclor-1254	ND	0.00118	0.0330	U
11096-82-5	Aroclor-1260	ND	0.000870	0.0330	U
37324-23-5	Aroclor-1262	ND	0.00127	0.0330	U
11100-14-4	Aroclor-1268	ND	0.000667	0.0330	U
1336-36-3	Total PCBs	ND	0.000588	0.0330	U

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181012\6B23444.D\ECD1A.CH Vial: 24
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181012\6B23444.D\ECD2B.CH
Acq On : 12 Oct 2018 19:13 Operator: RL
Sample : B8J1064-BLK1 Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 13 11:39 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.25	5.25	741.2E6	252.5E6	61.566m	50.512
Spiked Amount 50.000	Range 40 - 149		Recovery =		123.13%	101.02%
2) S Decachlorobiphen	16.00	20.24	526.2E6	231.2E6	48.066	43.780
Spiked Amount 50.000	Range 52 - 136		Recovery =		96.13%	87.56%
Target Compounds						
Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

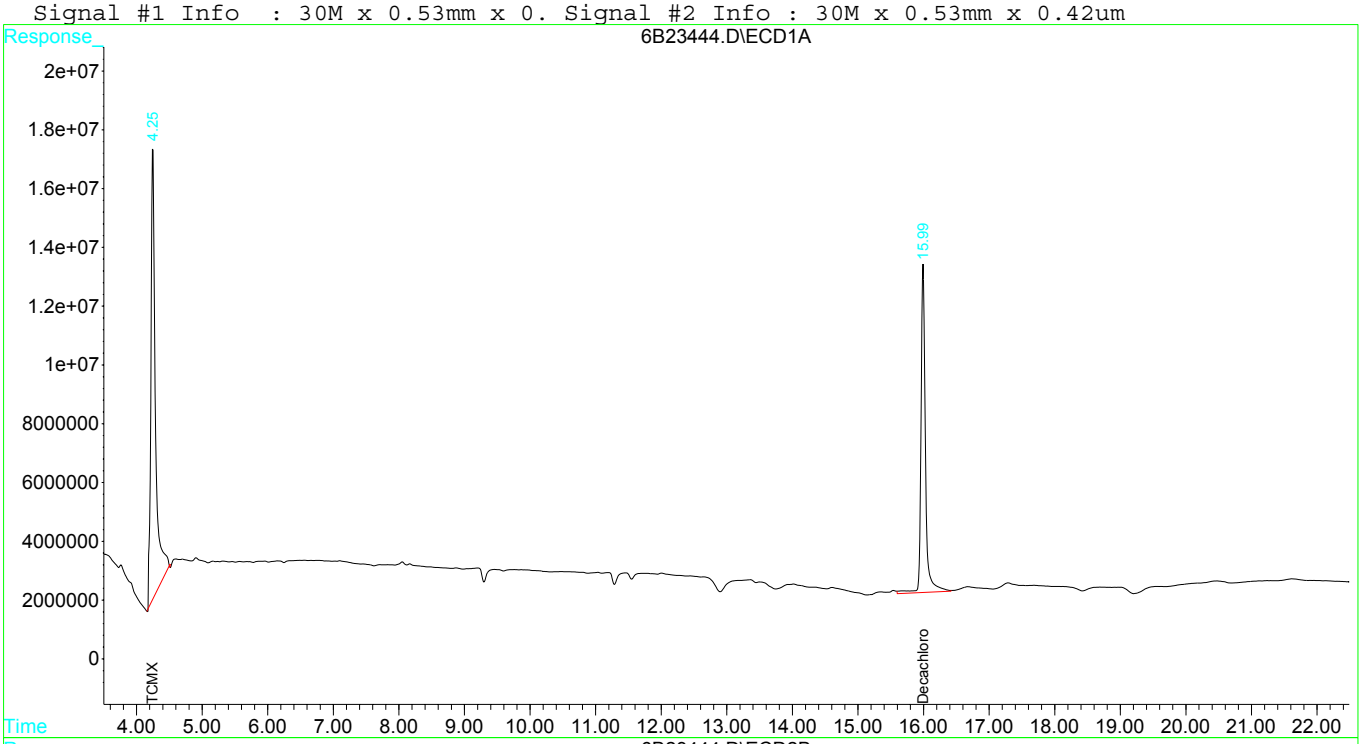
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

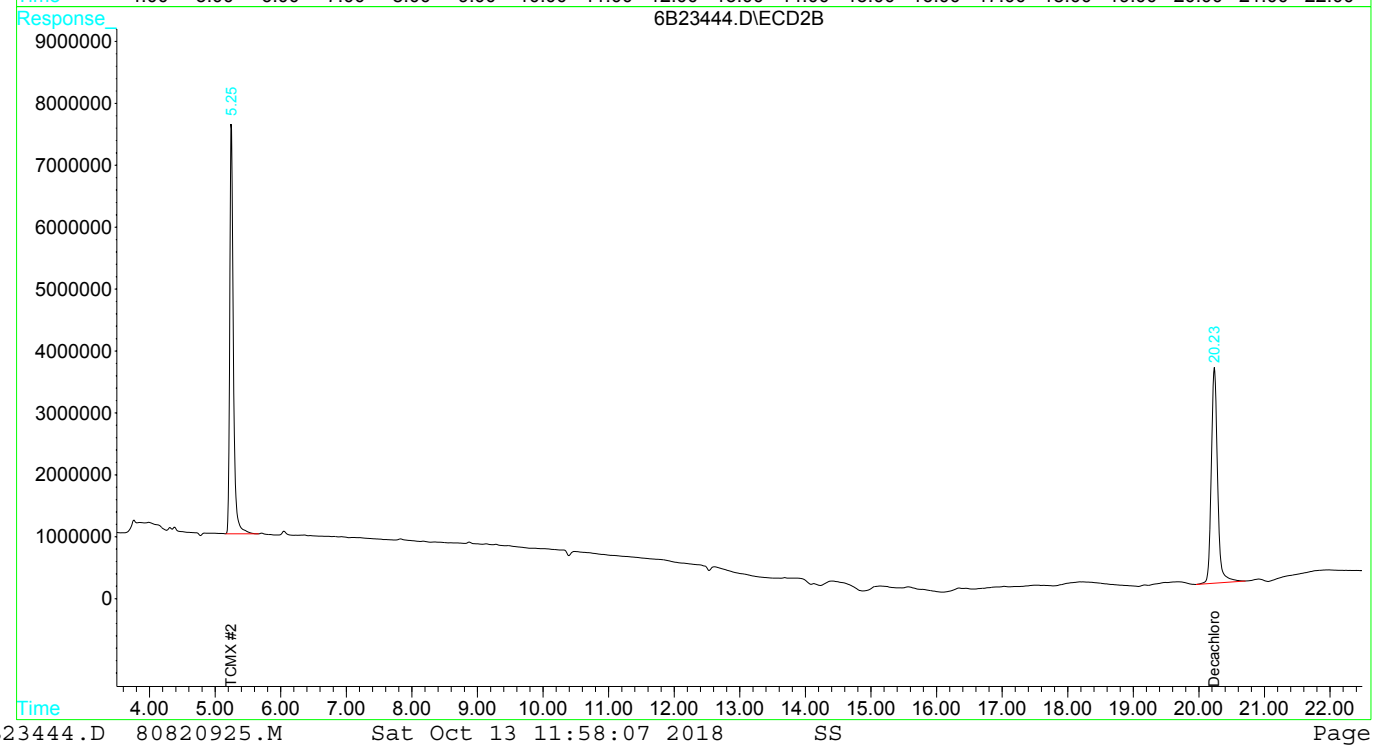
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181012\6B23444.D\ECD1A.CH Vial: 24
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181012\6B23444.D\ECD2B.CH
Acq On : 12 Oct 2018 19:13 Operator: RL
Sample : B8J1064-BLK1 Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 13 11:39 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

PCBs - SW 846 8082A

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 16:36	File ID:	6B23378.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1064	Analyzed:	10/11/18 14:00
Dilution:	1	Matrix:	Soil	Sequence:	S8J1113
Percent Solids:	89.91	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	ND	0.000654	0.0367	U
11104-28-2	Aroclor-1221	ND	0.00113	0.0367	U
11141-16-5	Aroclor-1232	ND	0.000864	0.0367	U
53469-21-9	Aroclor-1242	ND	0.00125	0.0367	U
12672-29-6	Aroclor-1248	ND	0.000861	0.0367	U
11097-69-1	Aroclor-1254	ND	0.00131	0.0367	U
11096-82-5	Aroclor-1260	ND	0.000968	0.0367	U
37324-23-5	Aroclor-1262	ND	0.00142	0.0367	U
11100-14-4	Aroclor-1268	ND	0.000742	0.0367	U
1336-36-3	Total PCBs	ND	0.000654	0.0367	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23378.D\ECD1A.CH Vial: 1
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23378.D\ECD2B.CH
Acq On : 11 Oct 2018 14:00 Operator: RL
Sample : 8100452-01 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 14:29 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.26	5.25	619.8E6	251.3E6	51.480	50.260
Spiked Amount 50.000	Range 40 - 149		Recovery =		102.96%	100.52%
2) S Decachlorobiphen	15.99	20.23	437.6E6	200.8E6	39.976	38.024
Spiked Amount 50.000	Range 52 - 136		Recovery =		79.95%	76.05%
Target Compounds						
Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

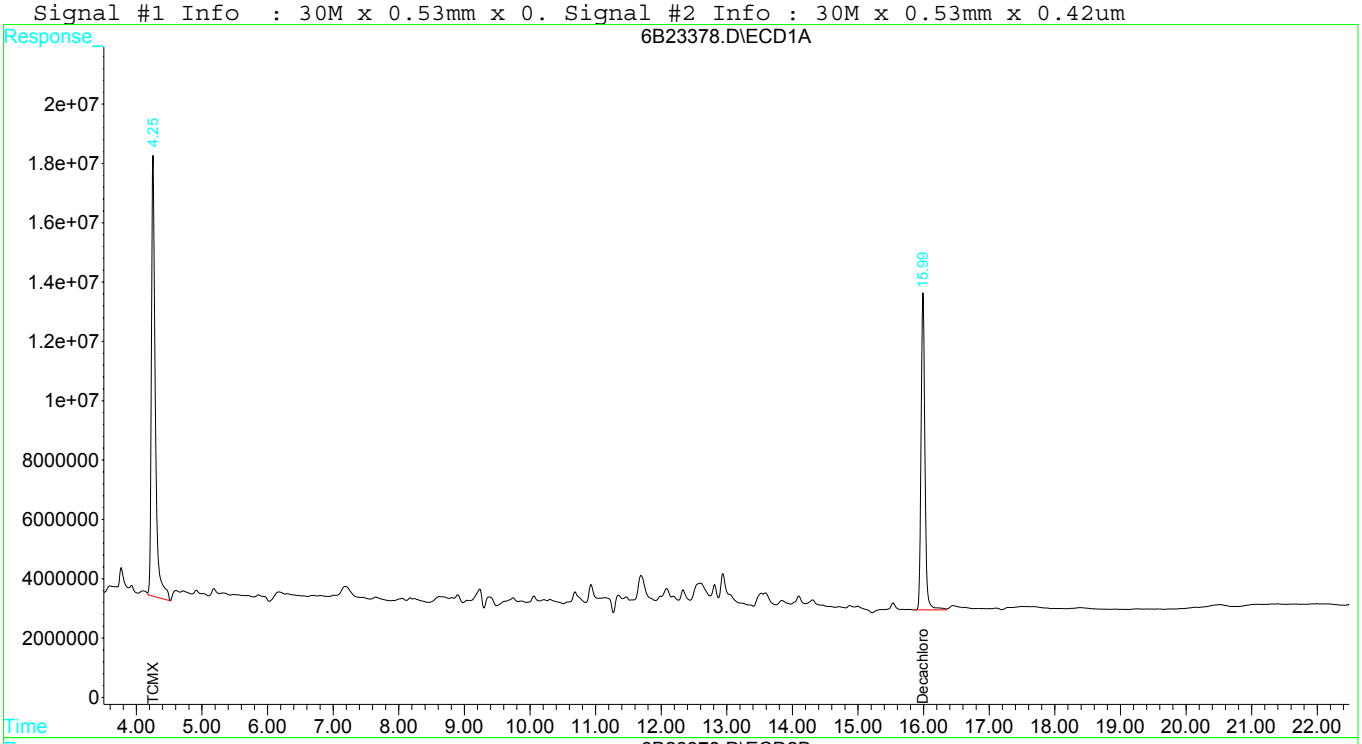
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
6B23378.D 80820925.M Thu Oct 11 15:34:58 2018 SS Page 1

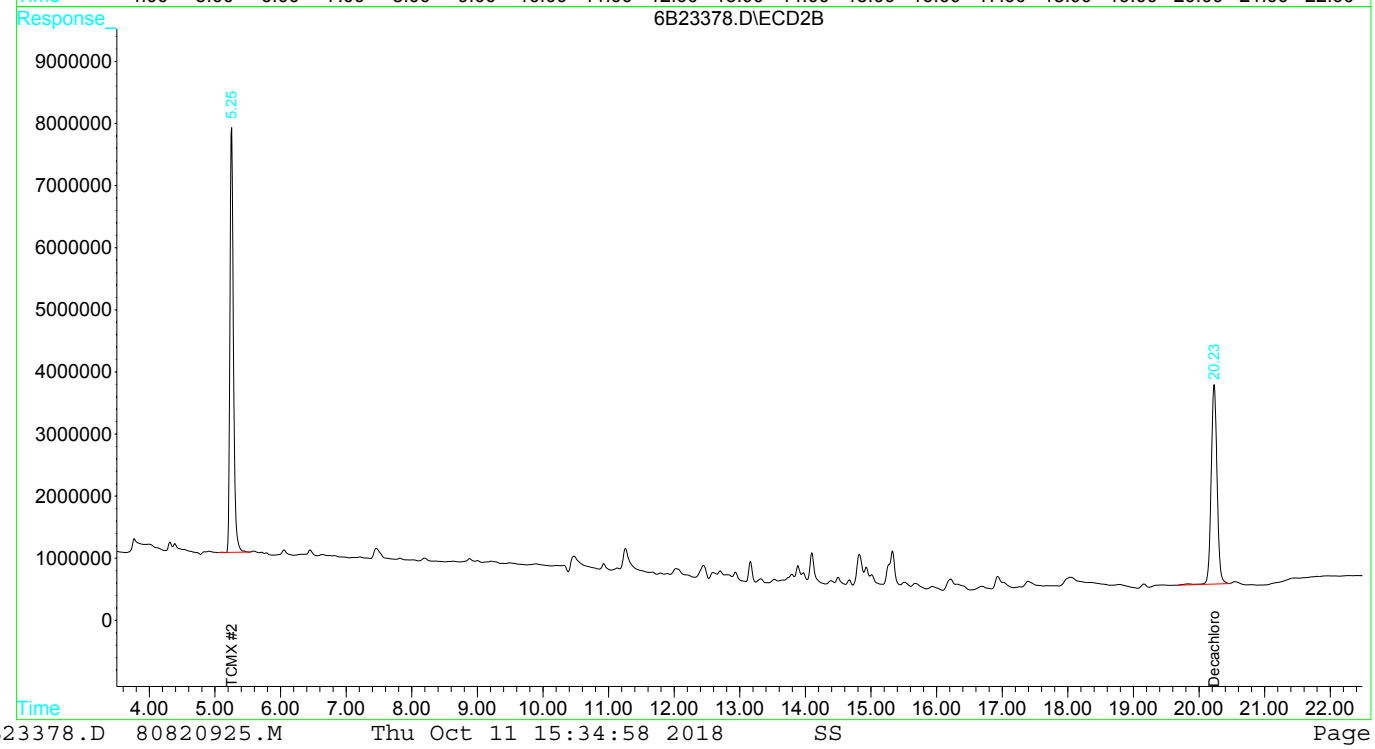
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23378.D\ECD1A.CH Vial: 1
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23378.D\ECD2B.CH
Acq On : 11 Oct 2018 14:00 Operator: RL
Sample : 8100452-01 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 14:29 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

PCBs - SW 846 8082A

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/10/18 16:36	File ID:	6B23379.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1064	Analyzed:	10/11/18 14:26
Dilution:	1	Matrix:	Soil	Sequence:	S8J1113
Percent Solids:	87.70	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	ND	0.000670	0.0376	U
11104-28-2	Aroclor-1221	ND	0.00116	0.0376	U
11141-16-5	Aroclor-1232	ND	0.000886	0.0376	U
53469-21-9	Aroclor-1242	ND	0.00128	0.0376	U
12672-29-6	Aroclor-1248	ND	0.000883	0.0376	U
11097-69-1	Aroclor-1254	ND	0.00134	0.0376	U
11096-82-5	Aroclor-1260	ND	0.000992	0.0376	U
37324-23-5	Aroclor-1262	ND	0.00145	0.0376	U
11100-14-4	Aroclor-1268	ND	0.000761	0.0376	U
1336-36-3	Total PCBs	ND	0.000670	0.0376	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23379.D\ECD1A.CH Vial: 2
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23379.D\ECD2B.CH
Acq On : 11 Oct 2018 14:26 Operator: RL
Sample : 8100452-06 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:33 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.26	5.26	639.9E6	252.5E6	53.149	50.502
Spiked Amount 50.000	Range 40 - 149		Recovery =		106.30%	101.00%
2) S Decachlorobiphen	15.99	20.24	427.4E6	206.9E6	39.042	39.167
Spiked Amount 50.000	Range 52 - 136		Recovery =		78.08%	78.33%
Target Compounds						
Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

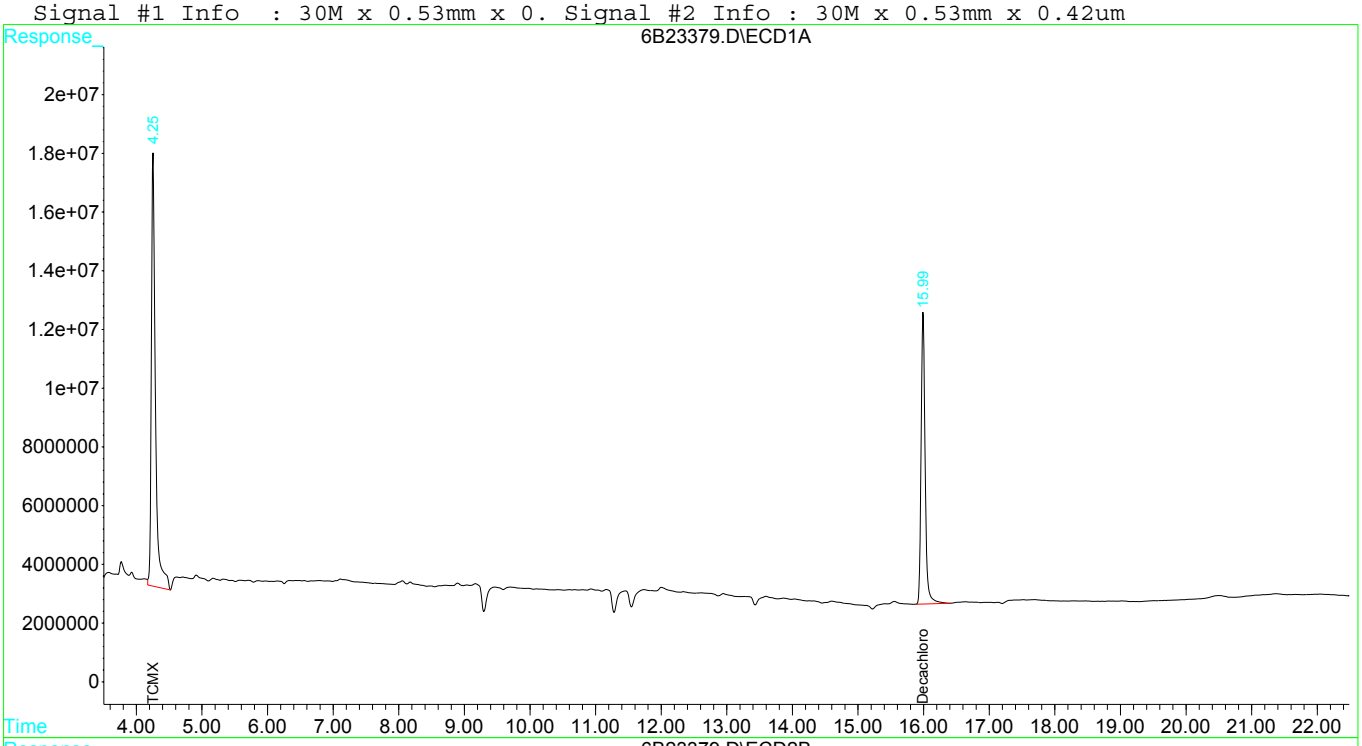
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
6B23379.D 80820925.M Thu Oct 11 15:35:00 2018 SS

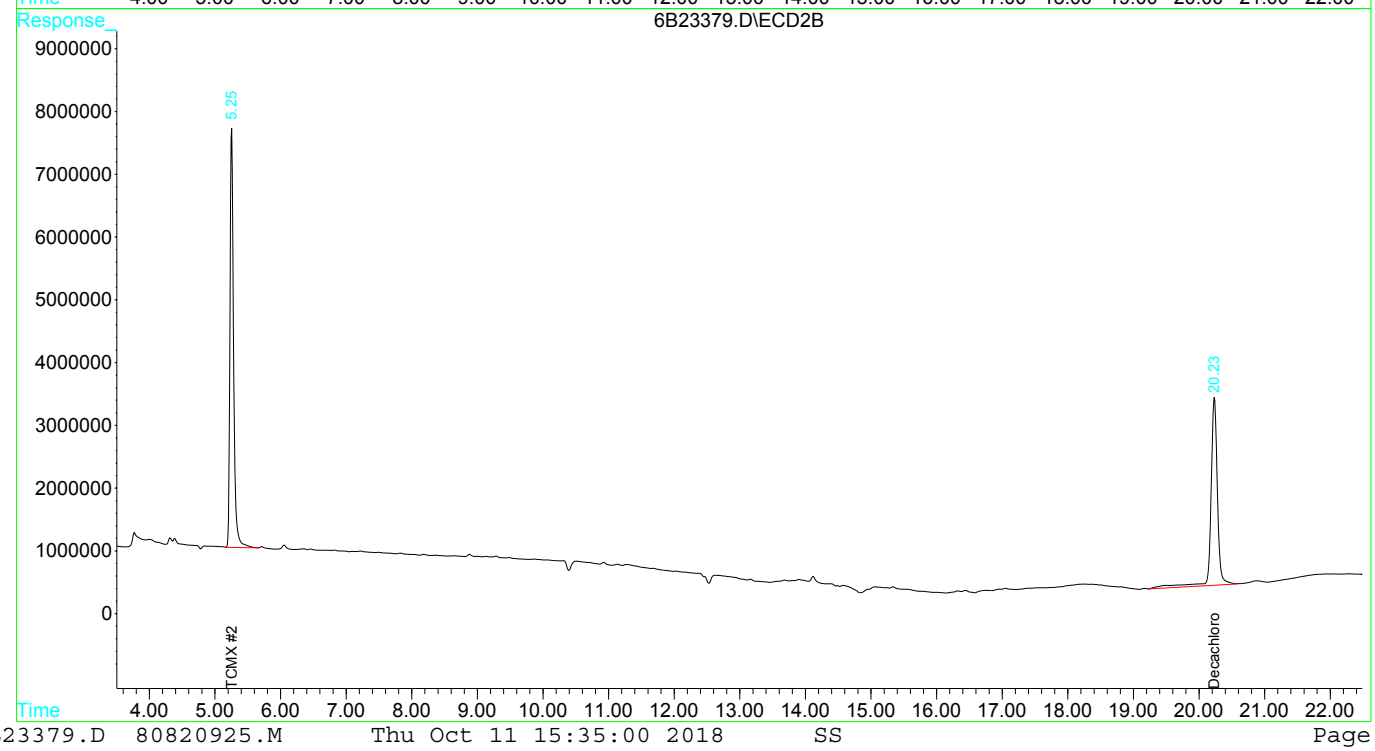
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23379.D\ECD1A.CH Vial: 2
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23379.D\ECD2B.CH
Acq On : 11 Oct 2018 14:26 Operator: RL
Sample : 8100452-06 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:33 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

PCBs - SW 846 8082A

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 16:36	File ID:	6B23380.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1064	Analyzed:	10/11/18 14:52
Dilution:	1	Matrix:	Soil	Sequence:	S8J1113
Percent Solids:	91.70	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	ND	0.000641	0.0360	U
11104-28-2	Aroclor-1221	ND	0.00111	0.0360	U
11141-16-5	Aroclor-1232	ND	0.000847	0.0360	U
53469-21-9	Aroclor-1242	ND	0.00122	0.0360	U
12672-29-6	Aroclor-1248	ND	0.000844	0.0360	U
11097-69-1	Aroclor-1254	ND	0.00128	0.0360	U
11096-82-5	Aroclor-1260	ND	0.000949	0.0360	U
37324-23-5	Aroclor-1262	ND	0.00139	0.0360	U
11100-14-4	Aroclor-1268	ND	0.000727	0.0360	U
1336-36-3	Total PCBs	ND	0.000641	0.0360	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23380.D\ECD1A.CH Vial: 3
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23380.D\ECD2B.CH
Acq On : 11 Oct 2018 14:52 Operator: RL
Sample : 8100452-12 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:34 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.26	5.26	675.3E6	267.9E6	56.089	53.582
Spiked Amount 50.000	Range 40 - 149		Recovery =		112.18%	107.16%
2) S Decachlorobiphen	16.00	20.24	455.0E6	223.6E6	41.566	42.335
Spiked Amount 50.000	Range 52 - 136		Recovery =		83.13%	84.67%
Target Compounds						
Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

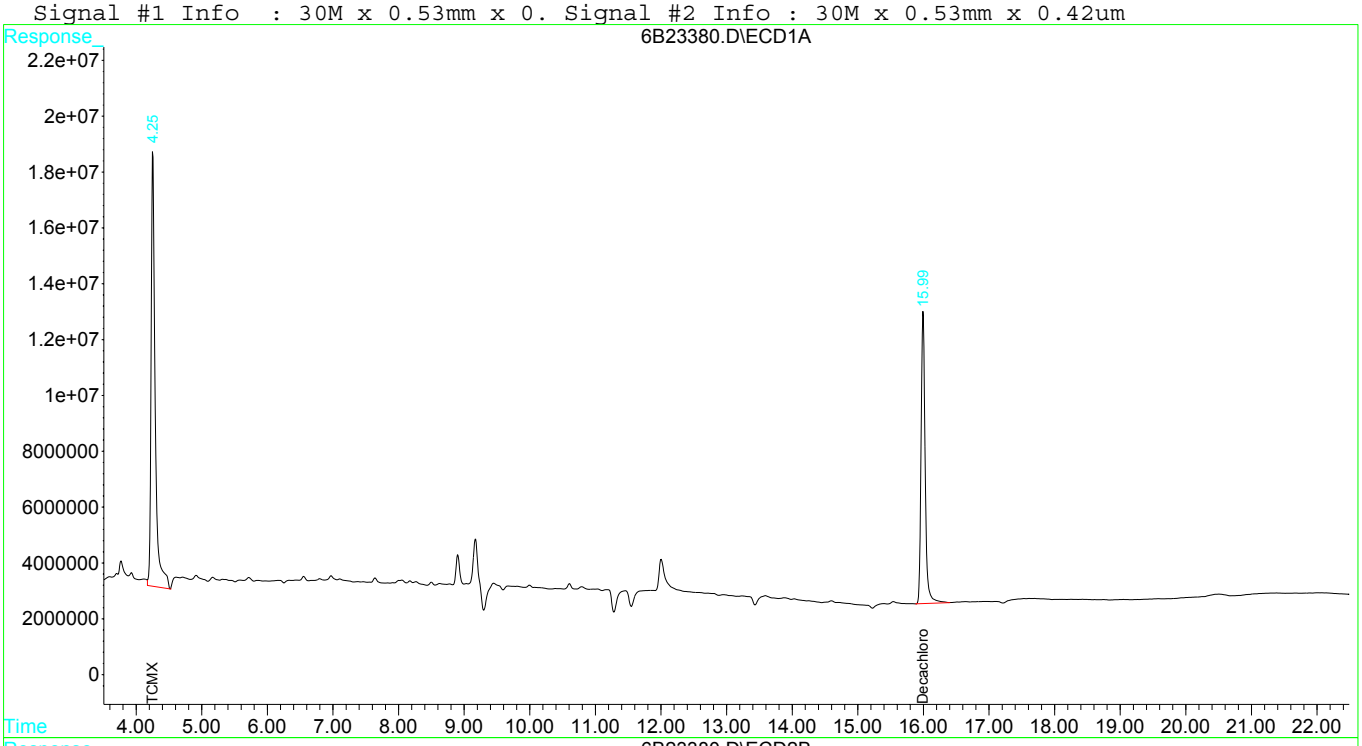
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
6B23380.D 80820925.M Thu Oct 11 15:35:02 2018 SS

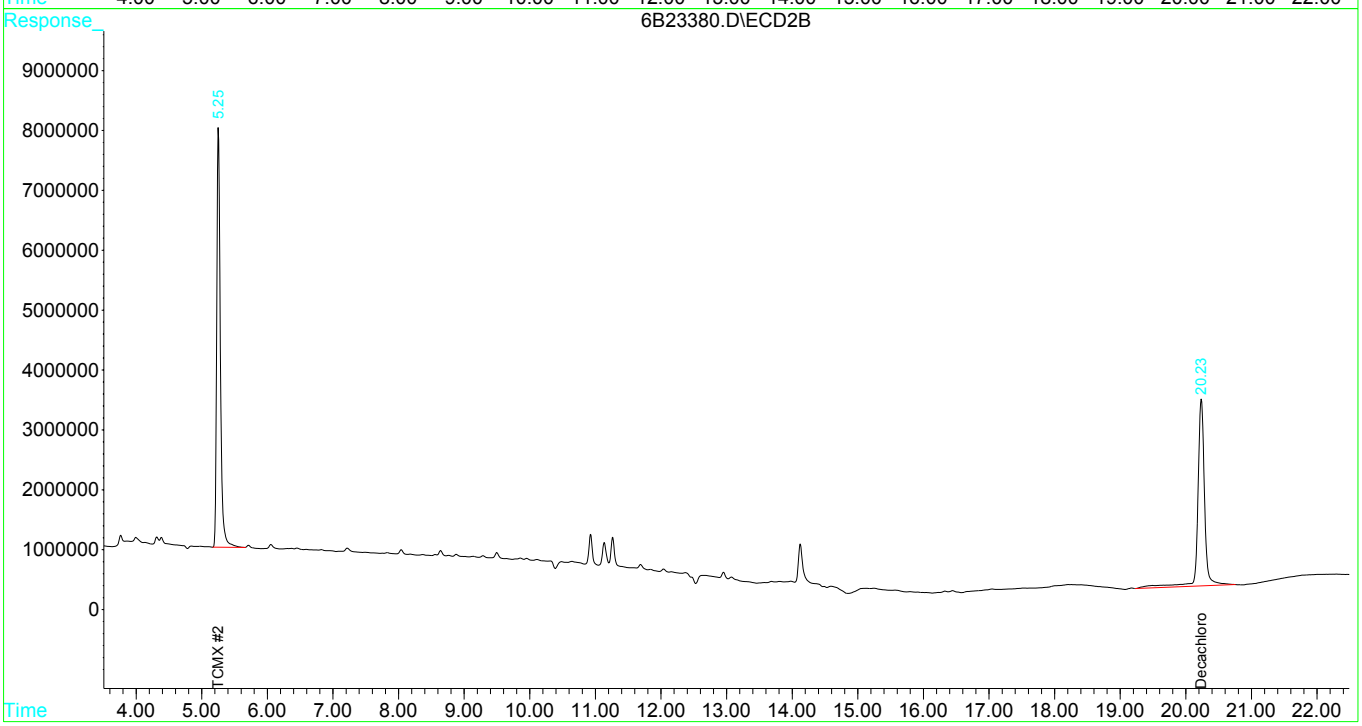
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23380.D\ECD1A.CH Vial: 3
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23380.D\ECD2B.CH
Acq On : 11 Oct 2018 14:52 Operator: RL
Sample : 8100452-12 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:34 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

PCBs - SW 846 8082A

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 16:36	File ID:	6B23381.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1064	Analyzed:	10/11/18 15:17
Dilution:	1	Matrix:	Soil	Sequence:	S8J1113
Percent Solids:	92.94	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	ND	0.000633	0.0355	U
11104-28-2	Aroclor-1221	ND	0.00109	0.0355	U
11141-16-5	Aroclor-1232	ND	0.000836	0.0355	U
53469-21-9	Aroclor-1242	ND	0.00121	0.0355	U
12672-29-6	Aroclor-1248	ND	0.000833	0.0355	U
11097-69-1	Aroclor-1254	ND	0.00127	0.0355	U
11096-82-5	Aroclor-1260	ND	0.000936	0.0355	U
37324-23-5	Aroclor-1262	ND	0.00137	0.0355	U
11100-14-4	Aroclor-1268	ND	0.000718	0.0355	U
1336-36-3	Total PCBs	ND	0.000633	0.0355	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23381.D\ECD1A.CH Vial: 4
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23381.D\ECD2B.CH
Acq On : 11 Oct 2018 15:17 Operator: RL
Sample : 8100452-14 Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:41 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.26	5.26	695.1E6	276.6E6	57.731	55.327
Spiked Amount 50.000	Range 40 - 149		Recovery =		115.46%	110.65%
2) S Decachlorobiphen	16.00	20.24	478.6E6	231.8E6	43.722	43.890
Spiked Amount 50.000	Range 52 - 136		Recovery =		87.44%	87.78%
Target Compounds						
Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

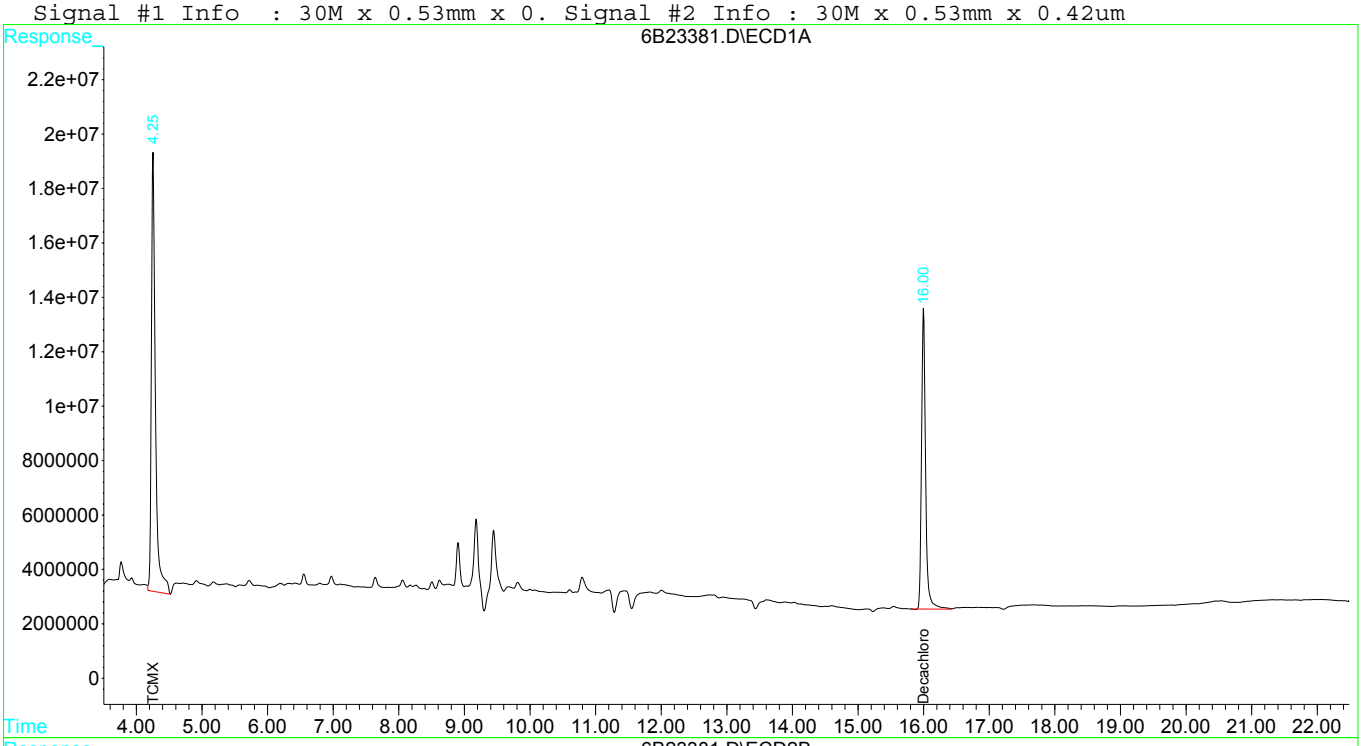
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
6B23381.D 80820925.M Thu Oct 11 15:42:00 2018 SS

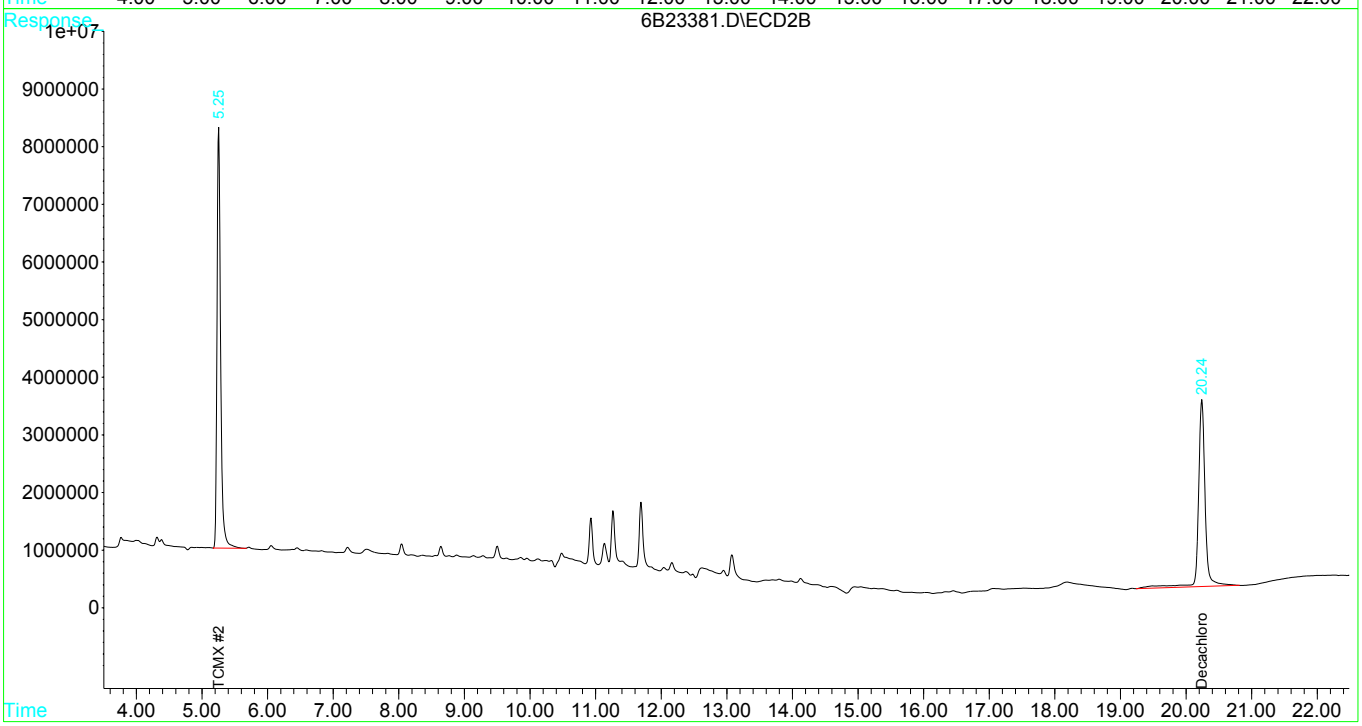
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23381.D\ECD1A.CH Vial: 4
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23381.D\ECD2B.CH
Acq On : 11 Oct 2018 15:17 Operator: RL
Sample : 8100452-14 Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:41 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





SURROGATE RECOVERIES

Analysis Class: PCBs

Matrix: Soil **Method:** SW 846 8082A

PCBs

Lab Number	File ID	TCMX	DCB	TCMX[2C]	DCB[2C]
8100452-01	6B23378.D	103	80.0	101	76.0
8100452-06	6B23379.D	106	78.1	101	78.3
8100452-12	6B23380.D	112	83.1	107	84.7
8100452-14	6B23381.D	115	87.4	111	87.8
B8J1064-BLK1	6B23444.D	123	96.1	101	87.6
B8J1064-BS1	6B23445.D	120	95.2	105	90.8
B8J1064-MS1	6B23446.D	101	93.6	94.5	93.1
B8J1064-MSD1	6B23447.D	107	91.2	101	94.3

Surrogate Limits		Lo Limit	Hi Limit
TCMX	Tetrachloro-m-xylene	40.2	149
DCB	Decachlorobiphenyl	52.1	136
TCMX[2C]	Tetrachloro-m-xylene [2C]	40.2	149
DCB[2C]	Decachlorobiphenyl [2C]	52.1	136

F-II

* - Outside of QC Limits

Batch B8J1064 **Method: SW 846 8082A** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1064-BS1		Aroclor-1016	0.345	mg/kg wet	0.333		104	87.3-144		
B8J1064-BS1		Aroclor-1260	0.322	mg/kg wet	0.333		96.6	68.3-160		

Batch B8J1064 (cont.) **Method: SW 846 8082A** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1064-MS1	8100452-01	Aroclor-1016	0.353	mg/kg dry	0.371	ND	95.3	74.4-141		
B8J1064-MS1	8100452-01	Aroclor-1260	0.384	mg/kg dry	0.371	ND	104	64.5-133		

Batch B8J1064 (cont.) **Method: SW 846 8082A** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1064-MSD1	8100452-01	Aroclor-1016	0.405	mg/kg dry	0.371	ND	109	74.4-141	13.6	30
B8J1064-MSD1	8100452-01	Aroclor-1260	0.417	mg/kg dry	0.371	ND	112	64.5-133	8.12	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

METHOD BLANK SUMMARY

Batch ID: **B8J1064**

Lab Number	Sample Id	Extraction Date	Analysis Date
B8J1064-BLK1	BLK1	10/10/2018	10/12/2018 19:13
B8J1064-BS1	BS1	10/10/2018	10/12/2018 19:39
B8J1064-MS1	MS1	10/10/2018	10/12/2018 20:04
B8J1064-MSD1	MSD1	10/10/2018	10/12/2018 20:30
8100452-01	NTP-1A	10/10/2018	10/11/2018 14:00
8100452-06	NTP-6	10/10/2018	10/11/2018 14:26
8100452-12	STP-4B	10/10/2018	10/11/2018 14:52
8100452-14	STP-7	10/10/2018	10/11/2018 15:17

SURROGATE RT DRIFT REPORT

Analysis Class: PCBs

Sequence : S8J1113

		TCMX			DCB			TCMX[2C]			DCB[2C]		
Lab Number	File ID	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift
8100452-01	6B23378.D	4.26	4.26	0.00	15.99	16	-0.01	5.25	5.25	0.00	20.23	20.24	-0.01
8100452-06	6B23379.D	4.26	4.26	0.00	15.99	16	-0.01	5.26	5.25	0.01	20.24	20.24	0.00
8100452-12	6B23380.D	4.26	4.26	0.00	16	16	0.00	5.26	5.25	0.01	20.24	20.24	0.00
8100452-14	6B23381.D	4.26	4.26	0.00	16	16	0.00	5.26	5.25	0.01	20.24	20.24	0.00

Sequence : S8J1201

		TCMX			DCB			TCMX[2C]			DCB[2C]		
Lab Number	File ID	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift
B8J1064-BLK1	6B23444.D	4.25	4.25	0.00	16	15.99	0.01	5.25	5.25	0.00	20.24	20.24	0.00
B8J1064-BS1	6B23445.D	4.25	4.25	0.00	16	15.99	0.01	5.25	5.25	0.00	20.24	20.24	0.00
B8J1064-MS1	6B23446.D	4.24	4.25	-0.01	15.99	15.99	0.00	5.25	5.25	0.00	20.23	20.24	-0.01
B8J1064-MSD1	6B23447.D	4.25	4.25	0.00	15.99	15.99	0.00	5.25	5.25	0.00	20.23	20.24	-0.01

Surrogate		Limit
TCMX	Tetrachloro-m-xylene	0.10
DCB	Decachlorobiphenyl	0.10
TCMX[2C]	Tetrachloro-m-xylene [2C]	0.10
DCB[2C]	Decachlorobiphenyl [2C]	0.10

DISS = Dissolved Analysis

F-V

Response Factor Report GCECD-6

Method : G:\HPCHEM\GCECD6\METHODS\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018

Calibration Files
50 =6B22802.D 250 =6B22801.D 500 =6B22800.D
1000 =6B22799.D 2000 =6B22798.D

		Compound	50	250	500	1000	2000	Avg		%RSD
1)	S	TCMX	1.124	1.199	1.193	1.228	1.275	1.204	E7	4.58
2)	S	Decachlorobiphenyl	0.930	1.183	1.128	1.109	1.123	1.095	E7	8.78
3)	L3	Aroclor-1016 (1)	1.979	2.211	2.129	2.181	2.089	2.118	E5	4.27
4)	L3	Aroclor-1016 (2)	4.448	4.498	4.239	4.324	4.110	4.324	E5	3.63
5)	L3	Aroclor-1016 (3)	3.034	3.281	3.048	3.173	3.022	3.112	E5	3.62
6)	L3	Aroclor-1016 (4)	1.132	1.110	1.030	1.033	1.029	1.067	E6	4.70
7)	L3	Aroclor-1016 (5)	4.759	4.462	4.073	4.023	3.890	4.241	E5	8.47
8)	L4	Aroclor-1221 (1)					1.229	1.229	E5	0.00
9)	L4	Aroclor-1221 (2)					6.008	6.008	E4	0.00
10)	L4	Aroclor-1221 (3)					3.598	3.598	E5	0.00
11)	L5	Aroclor-1232 (1)					1.296	1.296	E5	0.00
12)	L5	Aroclor-1232 (2)					3.529	3.529	E5	0.00
13)	L5	Aroclor-1232 (3)					1.554	1.554	E5	0.00
14)	L5	Aroclor-1232 (4)					1.190	1.190	E5	0.00
15)	L6	Aroclor-1242 (1)					3.538	3.538	E5	0.00
16)	L6	Aroclor-1242 (2)					2.371	2.371	E5	0.00
17)	L6	Aroclor-1242 (3)					8.487	8.487	E5	0.00
18)	L6	Aroclor-1242 (4)					2.887	2.887	E5	0.00
19)	L6	Aroclor-1242 (5)					2.666	2.666	E5	0.00
20)	L7	Aroclor-1248 (1)					1.511	1.511	E5	0.00
21)	L7	Aroclor-1248 (2)					4.275	4.275	E5	0.00
22)	L7	Aroclor-1248 (3)					5.986	5.986	E5	0.00
23)	L7	Aroclor-1248 (4)					4.502	4.502	E5	0.00
24)	L8	Aroclor-1254 (1)					7.957	7.957	E5	0.00
25)	L8	Aroclor-1254 (2)					6.157	6.157	E5	0.00
26)	L8	Aroclor-1254 (3)					6.310	6.310	E5	0.00
27)	L8	Aroclor-1254 (4)					8.613	8.613	E5	0.00
28)	L9	Aroclor-1260 (1)	5.536	6.418	5.741	5.855	5.372	5.784	E5	6.92
29)	L9	Aroclor-1260 (2)	1.027	1.323	1.209	1.245	1.207	1.202	E6	9.05
30)	L9	Aroclor-1260 (3)	0.934	1.060	0.989	1.020	0.998	1.000	E6	4.61
31)	L9	Aroclor-1260 (4)	1.396	1.728	1.665	1.717	1.735	1.648	E6	8.72
32)	L9	Aroclor-1260 (5)	4.232	3.743	3.701	3.780	4.055	3.902	E5	5.92
33)	L1	Aroclor-1262 (1)					6.160	6.160	E5	0.00
34)	L1	Aroclor-1262 (2)					5.399	5.399	E5	0.00
35)	L1	Aroclor-1262 (3)					2.370	2.370	E6	0.00
36)	L2	Aroclor-1268 (1)					6.571	6.571	E5	0.00
37)	L2	Aroclor-1268 (2)					5.099	5.099	E6	0.00
38)	L2	Aroclor-1268 (3)					1.047	1.047	E6	0.00

Signal #2 Calibration Files
50 =6B22802.D 250 =6B22801.D 500 =6B22800.D
1000 =6B22799.D 2000 =6B22798.D

		Compound	50	250	500	1000	2000	Avg		%RSD
1)	S	TCMX	4.211	5.014	5.084	5.206	5.481	4.999	E6	9.51
2)	S	Decachlorobiphenyl	5.488	5.746	4.805	5.093	5.277	5.282	E6	6.83
3)	L3	Aroclor-1016 (1)	9.455	9.385	8.910	8.628	8.478	8.971	E4	4.89
4)	L3	Aroclor-1016 (2)	1.996	1.958	1.792	1.706	1.667	1.824	E5	8.10
5)	L3	Aroclor-1016 (3)	8.050	8.007	7.654	7.437	7.124	7.654	E4	5.10
6)	L3	Aroclor-1016 (4)	4.199	4.250	3.998	3.942	3.977	4.073	E5	3.46
7)	L3	Aroclor-1016 (5)	1.686	1.816	1.745	1.699	1.631	1.716	E5	4.05
8)	L4	Aroclor-1221 (1)					5.255	5.255	E4	0.00
9)	L4	Aroclor-1221 (2)					3.282	3.282	E4	0.00
10)	L4	Aroclor-1221 (3)					1.320	1.320	E5	0.00
11)	L5	Aroclor-1232 (1)					1.053	1.053	E5	0.00
12)	L5	Aroclor-1232 (2)					7.772	7.772	E4	0.00
13)	L5	Aroclor-1232 (3)					1.715	1.715	E5	0.00
14)	L5	Aroclor-1232 (4)					7.694	7.694	E4	0.00
15)	L6	Aroclor-1242 (1)					1.395	1.395	E5	0.00
16)	L6	Aroclor-1242 (2)					3.269	3.269	E5	0.00

(#) = Out of Range

Response Factor Report GCECD-6

Method : G:\HPCHEM\GCECD6\METHODS\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018

Calibration Files
50 =6B22802.D 250 =6B22801.D 500 =6B22800.D
1000 =6B22799.D 2000 =6B22798.D

		Compound	50	250	500	1000	2000	Avg		%RSD
17)	L6	Aroclor-1242 (3)						1.415	E5	0.00
18)	L6	Aroclor-1242 (4)						4.403	E4	0.00
19)	L6	Aroclor-1242 (5)						1.351	E5	0.00
20)	L7	Aroclor-1248 (1)						7.096	E4	0.00
21)	L7	Aroclor-1248 (2)						1.874	E5	0.00
22)	L7	Aroclor-1248 (3)						5.568	E4	0.00
23)	L7	Aroclor-1248 (4)						1.854	E5	0.00
24)	L8	Aroclor-1254 (1)						2.440	E5	0.00
25)	L8	Aroclor-1254 (2)						1.577	E5	0.00
26)	L8	Aroclor-1254 (3)						1.391	E5	0.00
27)	L8	Aroclor-1254 (4)						2.902	E5	0.00
28)	L9	Aroclor-1260 (1)	2.385	2.235	2.018	1.951	1.962	2.110	E5	9.08
29)	L9	Aroclor-1260 (2)	2.687	2.878	2.644	2.552	2.613	2.675	E5	4.63
30)	L9	Aroclor-1260 (3)	2.473	2.492	2.324	2.291	2.374	2.391	E5	3.73
31)	L9	Aroclor-1260 (4)	2.429	2.129	2.080	2.096	2.198	2.187	E5	6.54
32)	L9	Aroclor-1260 (5)	6.170	5.259	5.378	5.260	5.513	5.516	E5	6.90
33)	L1	Aroclor-1262 (1)						1.505	E5	0.00
34)	L1	Aroclor-1262 (2)						2.912	E5	0.00
35)	L1	Aroclor-1262 (3)						7.018	E5	0.00
36)	L2	Aroclor-1268 (1)						2.827	E5	0.00
37)	L2	Aroclor-1268 (2)						2.413	E6	0.00
38)	L2	Aroclor-1268 (3)						4.433	E5	0.00

(#) = Out of Range

Compound List Report GCECD-6

Method : G:\HPCHEM\GCECD6\METHODS\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
Total Cpnds : 77

PK#	Type	Compound Name	Exp RT	Rel RT	Cal	A/H	ID
1	S	TCMX	4.25	1.000	A	A	B
2	S	Decachlorobiphenyl	16.00	1.000	A	A	B
3	L3	Aroclor-1016 (1)	4.85	1.000	A	A	B
4	L3	Aroclor-1016 (2)	5.47	1.000	A	A	B
5	L3	Aroclor-1016 (3)	5.85	1.000	A	A	B
6	L3	Aroclor-1016 (4)	6.40	1.000	A	A	B
7	L3	Aroclor-1016 (5)	6.65	1.000	A	A	B
8	L4	Aroclor-1221 (1)	4.53	1.000	A	A	B
9	L4	Aroclor-1221 (2)	4.78	1.000	A	A	B
10	L4	Aroclor-1221 (3)	4.85	1.000	A	A	B
11	L5	Aroclor-1232 (1)	5.85	1.000	A	A	B
12	L5	Aroclor-1232 (2)	6.40	1.000	A	A	B
13	L5	Aroclor-1232 (3)	7.04	1.000	A	A	B
14	L5	Aroclor-1232 (4)	7.45	1.000	A	A	B
15	L6	Aroclor-1242 (1)	5.47	1.000	A	A	B
16	L6	Aroclor-1242 (2)	5.85	1.000	A	A	B
17	L6	Aroclor-1242 (3)	6.39	1.000	A	A	B
18	L6	Aroclor-1242 (4)	7.45	1.000	A	A	B
19	L6	Aroclor-1242 (5)	7.64	1.000	A	A	B
20	L7	Aroclor-1248 (1)	5.46	1.000	A	A	B
21	L7	Aroclor-1248 (2)	6.39	1.000	A	A	B
22	L7	Aroclor-1248 (3)	7.04	1.000	A	A	B
23	L7	Aroclor-1248 (4)	7.45	1.000	A	A	B
24	L8	Aroclor-1254 (1)	9.68	1.000	A	A	B
25	L8	Aroclor-1254 (2)	10.34	1.000	A	A	B
26	L8	Aroclor-1254 (3)	10.68	1.000	A	A	B
27	L8	Aroclor-1254 (4)	11.32	1.000	A	A	B
28	L9	Aroclor-1260 (1)	10.05	1.000	A	A	B
29	L9	Aroclor-1260 (2)	10.68	1.000	A	A	B
30	L9	Aroclor-1260 (3)	11.33	1.000	A	A	B
31	L9	Aroclor-1260 (4)	12.82	1.000	A	A	B
32	L9	Aroclor-1260 (5)	14.89	1.000	A	A	B
33	L1	Aroclor-1262 (1)	11.65	1.000	A	A	B
34	L1	Aroclor-1262 (2)	12.20	1.000	A	A	B
35	L1	Aroclor-1262 (3)	12.82	1.000	A	A	B
36	L2	Aroclor-1268 (1)	14.88	1.000	A	A	B
37	L2	Aroclor-1268 (2)	15.54	1.000	A	A	B
38	L2	Aroclor-1268 (3)	16.00	1.000	A	A	B
39		Signal #2	34.78	1.000	A	A	B
40	S	TCMX #2	5.25	1.000	A	A	B
41	S	Decachlorobiphenyl #2	20.24	1.000	A	A	B
42	L3	Aroclor-1016 (1) #2	6.26	1.000	A	A	B
43	L3	Aroclor-1016 (2) #2	7.13	1.000	A	A	B
44	L3	Aroclor-1016 (3) #2	7.68	1.000	A	A	B
45	L3	Aroclor-1016 (4) #2	8.19	1.000	A	A	B
46	L3	Aroclor-1016 (5) #2	8.48	1.000	A	A	B
47	L4	Aroclor-1221 (1) #2	5.83	1.000	A	A	B
48	L4	Aroclor-1221 (2) #2	6.13	1.000	A	A	B
49	L4	Aroclor-1221 (3) #2	6.27	1.000	A	A	B
50	L5	Aroclor-1232 (1) #2	6.27	1.000	A	A	B
51	L5	Aroclor-1232 (2) #2	7.13	1.000	A	A	B
52	L5	Aroclor-1232 (3) #2	8.19	1.000	A	A	B
53	L5	Aroclor-1232 (4) #2	8.49	1.000	A	A	B
54	L6	Aroclor-1242 (1) #2	7.13	1.000	A	A	B
55	L6	Aroclor-1242 (2) #2	8.18	1.000	A	A	B
56	L6	Aroclor-1242 (3) #2	8.48	1.000	A	A	B
57	L6	Aroclor-1242 (4) #2	9.63	1.000	A	A	B
58	L6	Aroclor-1242 (5) #2	9.82	1.000	A	A	B
59	L7	Aroclor-1248 (1) #2	7.13	1.000	A	A	B
60	L7	Aroclor-1248 (2) #2	8.18	1.000	A	A	B
61	L7	Aroclor-1248 (3) #2	8.73	1.000	A	A	B
62	L7	Aroclor-1248 (4) #2	9.53	1.000	A	A	B
63	L8	Aroclor-1254 (1) #2	10.48	1.000	A	A	B
64	L8	Aroclor-1254 (2) #2	11.07	1.000	A	A	B
65	L8	Aroclor-1254 (3) #2	11.74	1.000	A	A	B
66	L8	Aroclor-1254 (4) #2	12.02	1.000	A	A	B

67	L9	Aroclor-1260 (1) #2	12.45	1.000	A	A	B
68	L9	Aroclor-1260 (2) #2	12.94	1.000	A	A	B
69	L9	Aroclor-1260 (3) #2	13.33	1.000	A	A	B
70	L9	Aroclor-1260 (4) #2	14.68	1.000	A	A	B
71	L9	Aroclor-1260 (5) #2	15.28	1.000	A	A	B
72	L1	Aroclor-1262 (1) #2	14.11	1.000	A	A	B
73	L1	Aroclor-1262 (2) #2	14.68	1.000	A	A	B
74	L1	Aroclor-1262 (3) #2	15.28	1.000	A	A	B
75	L2	Aroclor-1268 (1) #2	17.98	1.000	A	A	B
76	L2	Aroclor-1268 (2) #2	19.17	1.000	A	A	B
77	L2	Aroclor-1268 (3) #2	20.24	1.000	A	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

80820925.M Tue Oct 02 12:32:28 2018 SS

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (500):	S8J1113-CCV1(1)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23377.D	Date Analyzed:	10/11/2018 13:34
PCBs	Column 1	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016	-----	-----	-----	489212	492245	0.60
Aroclor-1016 (1)	04.86	04.76	04.96	211764	242144	14.30
Aroclor-1016 (2)	05.47	05.37	05.57	432364	350618	18.90
Aroclor-1016 (3)	05.86	05.76	05.96	311160	362270	16.40
Aroclor-1016 (4)	06.42	06.32	06.52	1066628	1057362	0.90
Aroclor-1016 (5)	06.67	06.57	06.77	424144	448831	5.80
Average-Aroclor-1260	-----	-----	-----	963897	982236	1.90
Aroclor-1260 (1)	10.06	09.96	10.16	578436	484968	16.20
Aroclor-1260 (2)	10.70	10.60	10.80	1202407	1318524	9.70
Aroclor-1260 (3)	11.34	11.24	11.44	1000381	1006615	0.60
Aroclor-1260 (4)	12.83	12.73	12.93	1648039	1697299	3.00
Aroclor-1260 (5)	14.89	14.79	14.99	390220	403773	3.50
Tetrachloro-m-xylene	04.26	04.16	04.36	12039880	11968110	0.60
Decachlorobiphenyl	16.00	15.90	16.10	10947110	9284400	15.20
					Average %D:	8.76

* - Outside of QC limits

F-VII

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (500):	S8J1113-CCV1(2)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23377.D	Date Analyzed:	10/11/2018 13:34
PCBs	Column 2	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016 [2C]	-----	-----	-----	185625	204123	10.00
Aroclor-1016 (1) [2C]	06.27	06.17	06.37	89712	97027	8.20
Aroclor-1016 (2) [2C]	07.14	07.04	07.24	182386	195712	7.30
Aroclor-1016 (3) [2C]	07.69	07.59	07.79	77154	93895	21.70
Aroclor-1016 (4) [2C]	08.20	08.10	08.30	407320	425268	4.40
Aroclor-1016 (5) [2C]	08.50	08.40	08.60	171552	208715	21.70
Average-Aroclor-1260 [2C]	-----	-----	-----	297563	314212	5.60
Aroclor-1260 (1) [2C]	12.45	12.35	12.55	211007	227921	8.00
Aroclor-1260 (2) [2C]	12.95	12.85	13.05	267464	295603	10.50
Aroclor-1260 (3) [2C]	13.33	13.23	13.43	239078	257236	7.60
Aroclor-1260 (4) [2C]	14.68	14.58	14.78	218661	226848	3.70
Aroclor-1260 (5) [2C]	15.28	15.18	15.38	551606	563451	2.10
Tetrachloro-m-xylene [2C]	05.25	05.15	05.35	4999281	5174800	3.50
Decachlorobiphenyl [2C]	20.24	20.14	20.34	5281753	4225960	20.00
					Average %D:	9.89

* - Outside of QC limits

F-VII

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23377.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23377.D\ECD2B.CH
Acq On : 11 Oct 2018 13:34 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 14:28 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.26	5.25	598.4E6	258.7E6	49.702	51.755
Spiked Amount 50.000	Range 40 - 149		Recovery =		99.40%	103.51%
2) S Decachlorobiphen	16.00	20.24	464.2E6	211.3E6	42.406	40.005m
Spiked Amount 50.000	Range 52 - 136		Recovery =		84.81%	80.01%
Target Compounds						
3) L3 Aroclor-1016 (1)	4.86	6.27	121.1E6	48513559	571.731m	540.769
4) L3 Aroclor-1016 (2)	5.47	7.14	175.3E6	97855933	405.466m	536.531 #
5) L3 Aroclor-1016 (3)	5.86	7.69	181.1E6	46947332	582.127m	613.340
6) L3 Aroclor-1016 (4)	6.42	8.20	528.7E6	212.6E6	495.656m	522.032
7) L3 Aroclor-1016 (5)	6.67	8.50	224.4E6	104.4E6	529.101m	608.315
Sum Aroclor-1016 (1)			1230.6E6	510.3E6	2584.082	2820.986
Average Aroclor-1016 (1)					516.816	564.197
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
28) L9 Aroclor-1260 (1)	10.06	12.45	242.5E6	114.0E6	419.207m	540.080 #
29) L9 Aroclor-1260 (2)	10.70	12.95	659.3E6	147.8E6	548.285m	552.603
30) L9 Aroclor-1260 (3)	11.34	13.33	503.3E6	128.6E6	503.116m	537.976
31) L9 Aroclor-1260 (4)	12.83	14.68	848.6E6	113.4E6	514.945m	518.722
32) L9 Aroclor-1260 (5)	14.89	15.28	201.9E6	281.7E6	517.366	510.737
Sum Aroclor-1260 (1)			2455.6E6	785.5E6	2502.919	2660.119
Average Aroclor-1260 (1)					500.584	532.024
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

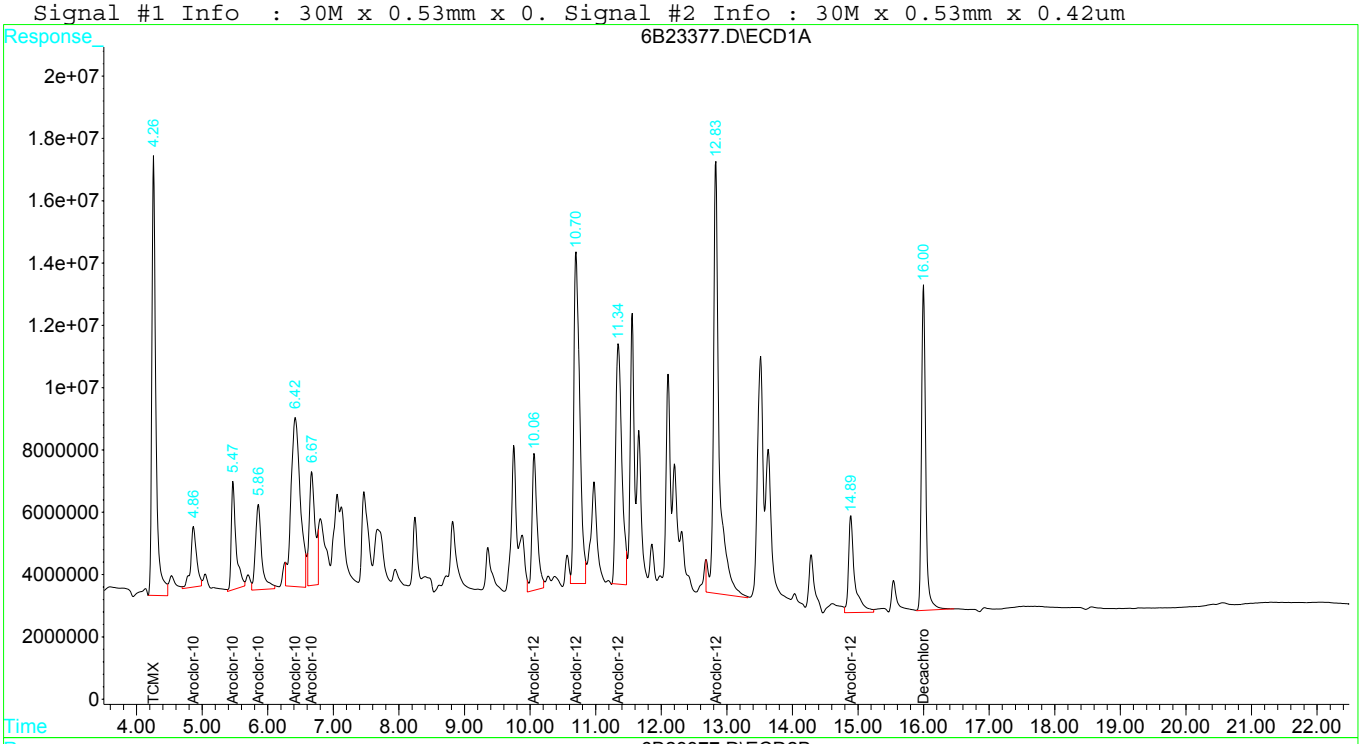
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
6B23377.D 80820925.M Thu Oct 11 15:41:58 2018 SS

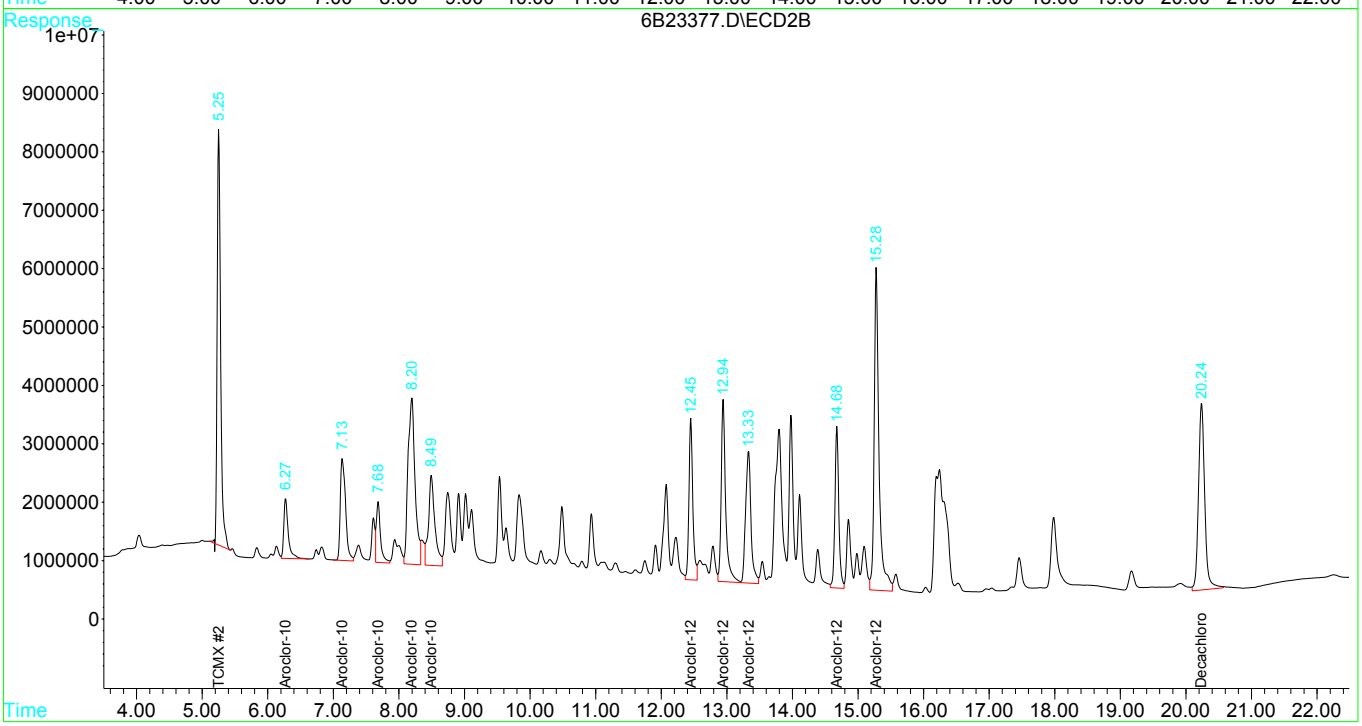
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23377.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23377.D\ECD2B.CH
Acq On : 11 Oct 2018 13:34 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 14:28 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (X500):	S8J1113-CCV2(1)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23397.D	Date Analyzed:	10/11/2018 22:07
PCBs	Column 1	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016	-----	-----	-----	489212	525758	7.50
Aroclor-1016 (1)	04.87	04.77	04.97	211764	264302	24.80
Aroclor-1016 (2)	05.47	05.37	05.57	432364	354249	18.10
Aroclor-1016 (3)	05.86	05.76	05.96	311160	413866	33.00
Aroclor-1016 (4)	06.43	06.33	06.53	1066628	1107490	3.80
Aroclor-1016 (5)	06.67	06.57	06.77	424144	488881	15.30
Average-Aroclor-1260	-----	-----	-----	963897	1019026	5.70
Aroclor-1260 (1)	10.06	09.96	10.16	578436	582350	0.70
Aroclor-1260 (2)	10.70	10.60	10.80	1202407	1381838	14.90
Aroclor-1260 (3)	11.35	11.25	11.45	1000381	1067650	6.70
Aroclor-1260 (4)	12.84	12.74	12.94	1648039	1668999	1.30
Aroclor-1260 (5)	14.90	14.80	15.00	390220	394291	1.00
Tetrachloro-m-xylene	04.26	04.16	04.36	12039880	11906430	1.10
Decachlorobiphenyl	16.00	15.90	16.10	10947110	10036770	8.30
					Average %D:	10.75

* - Outside of QC limits

F-VII

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (X500):	S8J1113-CCV2(2)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23397.D	Date Analyzed:	10/11/2018 22:07
PCBs	Column 2	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016 [2C]	-----	-----	-----	185625	202212	8.90
Aroclor-1016 (1) [2C]	06.28	06.18	06.38	89712	103543	15.40
Aroclor-1016 (2) [2C]	07.14	07.04	07.24	182386	201714	10.60
Aroclor-1016 (3) [2C]	07.68	07.58	07.78	77154	84942	10.10
Aroclor-1016 (4) [2C]	08.20	08.10	08.30	407320	435194	6.80
Aroclor-1016 (5) [2C]	08.50	08.40	08.60	171552	185668	8.20
Average-Aroclor-1260 [2C]	-----	-----	-----	297563	331038	11.20
Aroclor-1260 (1) [2C]	12.46	12.36	12.56	211007	246616	16.90
Aroclor-1260 (2) [2C]	12.95	12.85	13.05	267464	324460	21.30
Aroclor-1260 (3) [2C]	13.34	13.24	13.44	239078	278363	16.40
Aroclor-1260 (4) [2C]	14.68	14.58	14.78	218661	230825	5.60
Aroclor-1260 (5) [2C]	15.29	15.19	15.39	551606	574924	4.20
Tetrachloro-m-xylene [2C]	05.26	05.16	05.36	4999281	5696838	14.00
Decachlorobiphenyl [2C]	20.25	20.15	20.35	5281753	4377342	17.10
					Average %D:	12.22

* - Outside of QC limits

F-VII

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23397.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23397.D\ECD2B.CH
Acq On : 11 Oct 2018 22:07 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 12 7:56 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.26	5.26	595.3E6	284.8E6	49.446	56.977
Spiked Amount 50.000	Range 40 - 149		Recovery =		98.89%	113.95%
2) S Decachlorobiphen	16.00	20.25	501.8E6	218.9E6	45.842	41.438
Spiked Amount 50.000	Range 52 - 136		Recovery =		91.68%	82.88%
Target Compounds						
3) L3 Aroclor-1016 (1)	4.87	6.28	132.2E6	51771629	624.048	577.086
4) L3 Aroclor-1016 (2)	5.47	7.14	177.1E6	100.9E6	409.666	552.984 #
5) L3 Aroclor-1016 (3)	5.86	7.68	206.9E6	42470920	665.037	554.858m
6) L3 Aroclor-1016 (4)	6.43f	8.20	553.7E6	217.6E6	519.155	534.216m
7) L3 Aroclor-1016 (5)	6.67	8.50	244.4E6	92833897	576.315	541.141m
Sum Aroclor-1016 (1)			1314.4E6	505.5E6	2794.220	2760.286
Average Aroclor-1016 (1)					558.844	552.057
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
28) L9 Aroclor-1260 (1)	10.06	12.46	291.2E6	123.3E6	503.384m	584.379
29) L9 Aroclor-1260 (2)	10.70	12.95	690.9E6	162.2E6	574.614m	606.549
30) L9 Aroclor-1260 (3)	11.35	13.34	533.8E6	139.2E6	533.622m	582.158
31) L9 Aroclor-1260 (4)	12.84	14.68	834.5E6	115.4E6	506.359m	527.817
32) L9 Aroclor-1260 (5)	14.90	15.29	197.1E6	287.5E6	505.217	521.137
Sum Aroclor-1260 (1)			2547.6E6	827.6E6	2623.195	2822.040
Average Aroclor-1260 (1)					524.639	564.408
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

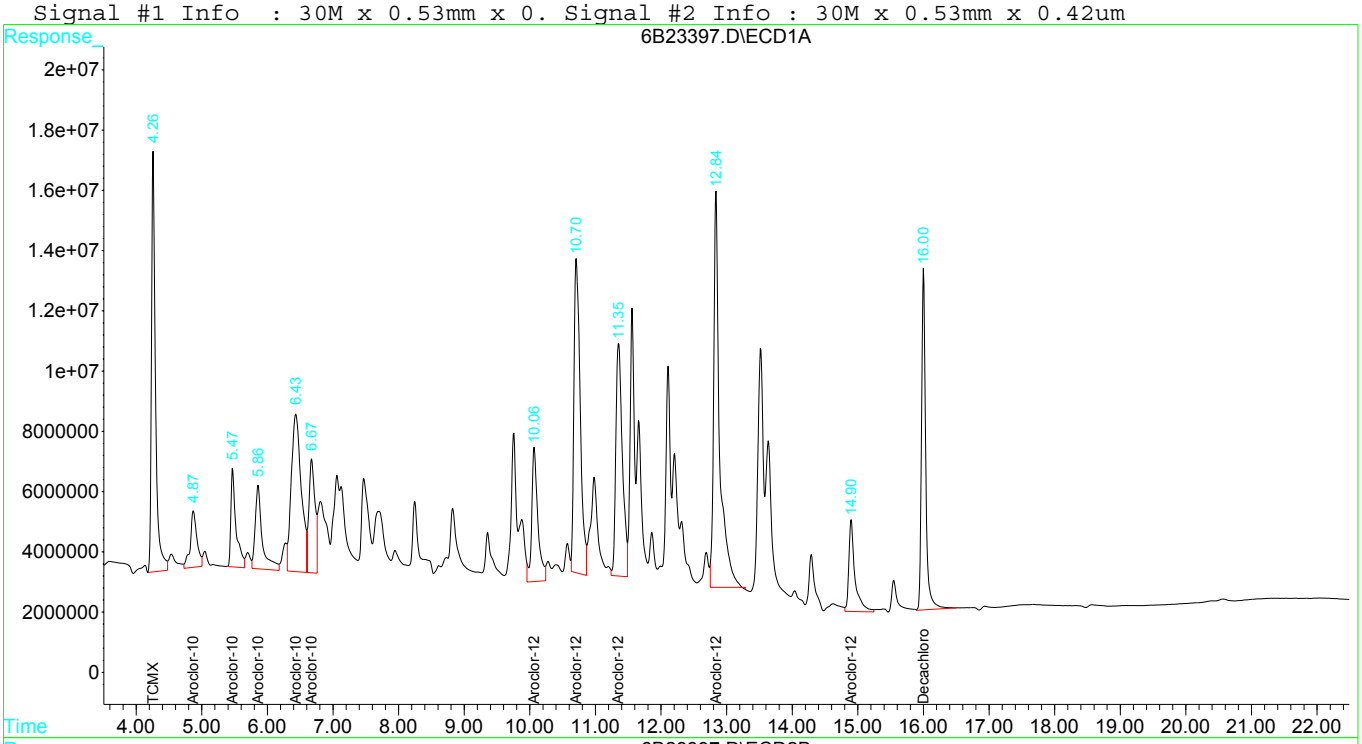
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
6B23397.D 80820925.M Fri Oct 12 07:57:53 2018 SS

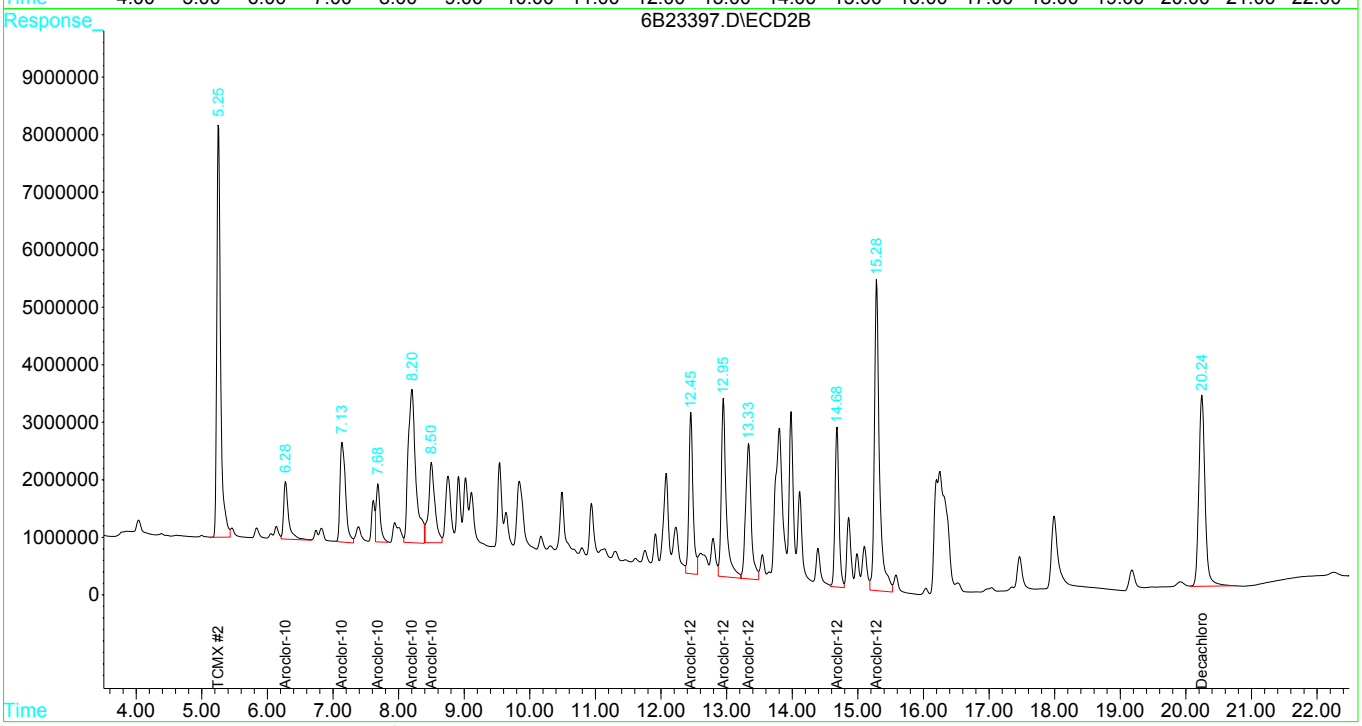
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23397.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23397.D\ECD2B.CH
Acq On : 11 Oct 2018 22:07 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 12 7:56 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (X500):	S8J1201-CCV2(1)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23428.D	Date Analyzed:	10/12/2018 12:32
PCBs	Column 1	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016	-----	-----	-----	489212	489879	0.10
Aroclor-1016 (1)	04.86	04.76	04.96	211764	236319	11.60
Aroclor-1016 (2)	05.46	05.36	05.56	432364	379154	12.30
Aroclor-1016 (3)	05.85	05.75	05.95	311160	391151	25.70
Aroclor-1016 (4)	06.42	06.32	06.52	1066628	1013619	5.00
Aroclor-1016 (5)	06.67	06.57	06.77	424144	429149	1.20
Average-Aroclor-1260	-----	-----	-----	963897	1046925	8.60
Aroclor-1260 (1)	10.06	09.96	10.16	578436	521228	9.90
Aroclor-1260 (2)	10.70	10.60	10.80	1202407	1365615	13.60
Aroclor-1260 (3)	11.34	11.24	11.44	1000381	1085042	8.50
Aroclor-1260 (4)	12.83	12.73	12.93	1648039	1844663	11.90
Aroclor-1260 (5)	14.89	14.79	14.99	390220	418078	7.10
Tetrachloro-m-xylene	04.25	04.15	04.35	12039880	11211800	6.90
Decachlorobiphenyl	15.99	15.89	16.09	10947110	10848370	0.90
					Average %D:	9.55

* - Outside of QC limits

F-VII

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (X500):	S8J1201-CCV2(2)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23428.D	Date Analyzed:	10/12/2018 12:32
PCBs	Column 2	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016 [2C]	-----	-----	-----	185625	203909	9.80
Aroclor-1016 (1) [2C]	06.27	06.17	06.37	89712	102069	13.80
Aroclor-1016 (2) [2C]	07.14	07.04	07.24	182386	205763	12.80
Aroclor-1016 (3) [2C]	07.68	07.58	07.78	77154	103176	33.70
Aroclor-1016 (4) [2C]	08.20	08.10	08.30	407320	452984	11.20
Aroclor-1016 (5) [2C]	08.49	08.39	08.59	171552	155551	9.30
Average-Aroclor-1260 [2C]	-----	-----	-----	297563	340614	14.50
Aroclor-1260 (1) [2C]	12.45	12.35	12.55	211007	245710	16.40
Aroclor-1260 (2) [2C]	12.94	12.84	13.04	267464	327465	22.40
Aroclor-1260 (3) [2C]	13.33	13.23	13.43	239078	283898	18.70
Aroclor-1260 (4) [2C]	14.68	14.58	14.78	218661	239500	9.50
Aroclor-1260 (5) [2C]	15.28	15.18	15.38	551606	606497	10.00
Tetrachloro-m-xylene [2C]	05.25	05.15	05.35	4999281	5951186	19.00
Decachlorobiphenyl [2C]	20.24	20.14	20.34	5281753	4483482	15.10
					Average %D:	15.99

* - Outside of QC limits

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Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181012\6B23428.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181012\6B23428.D\ECD2B.CH
Acq On : 12 Oct 2018 12:32 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 12 13:26 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.25	5.25	560.6E6	297.6E6	46.561m	59.520 #
Spiked Amount 50.000	Range 40 - 149		Recovery =		93.12%	119.04%
2) S Decachlorobiphen	15.99	20.24	542.4E6	224.2E6	49.549	42.443
Spiked Amount 50.000	Range 52 - 136		Recovery =		99.10%	84.89%
Target Compounds						
3) L3 Aroclor-1016 (1)	4.86	6.27	118.2E6	51034430	557.978m	568.868
4) L3 Aroclor-1016 (2)	5.46	7.14	189.6E6	102.9E6	438.467m	564.086 #
5) L3 Aroclor-1016 (3)	5.85	7.68	195.6E6	51588084	628.537m	673.969
6) L3 Aroclor-1016 (4)	6.42	8.20	506.8E6	226.5E6	475.151m	556.055m
7) L3 Aroclor-1016 (5)	6.67	8.49	214.6E6	77775629	505.900m	453.365m
Sum Aroclor-1016 (1)			1224.7E6	509.8E6	2606.033	2816.343
Average Aroclor-1016 (1)					521.207	563.269
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
28) L9 Aroclor-1260 (1)	10.06	12.45	260.6E6	122.9E6	450.550m	582.231 #
29) L9 Aroclor-1260 (2)	10.70	12.94	682.8E6	163.7E6	567.868m	612.167
30) L9 Aroclor-1260 (3)	11.34	13.33	542.5E6	141.9E6	542.314m	593.735
31) L9 Aroclor-1260 (4)	12.83	14.68	922.3E6	119.7E6	559.654m	547.651
32) L9 Aroclor-1260 (5)	14.89	15.28	209.0E6	303.2E6	535.695	549.756
Sum Aroclor-1260 (1)			2617.3E6	851.5E6	2656.081	2885.540
Average Aroclor-1260 (1)					531.216	577.108
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

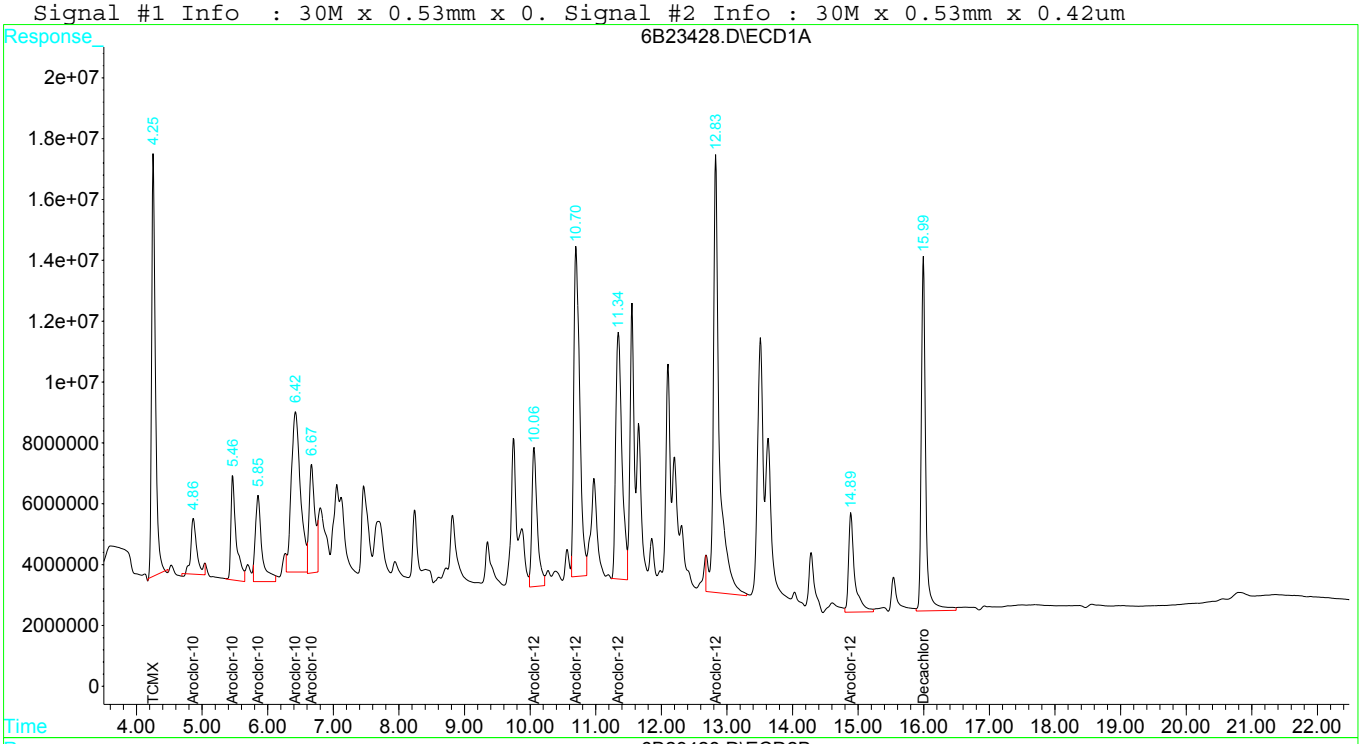
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
6B23428.D 80820925.M Fri Oct 12 13:27:22 2018 SS

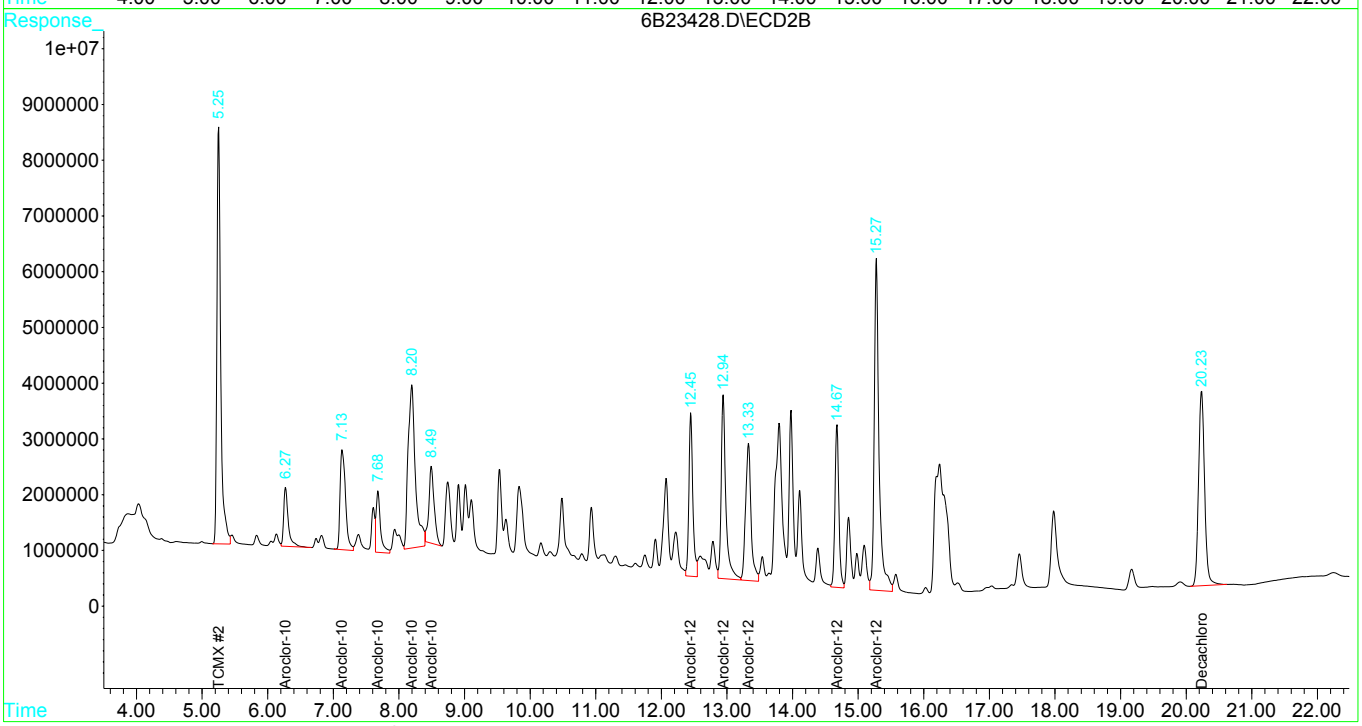
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181012\6B23428.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181012\6B23428.D\ECD2B.CH
Acq On : 12 Oct 2018 12:32 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 12 13:26 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (500):	S8J1201-CCV3(1)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23452.D	Date Analyzed:	10/12/2018 22:38
PCBs	Column 1	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016	-----	-----	-----	489212	500467	2.30
Aroclor-1016 (1)	04.86	04.76	04.96	211764	226495	7.00
Aroclor-1016 (2)	05.47	05.37	05.57	432364	458916	6.10
Aroclor-1016 (3)	05.85	05.75	05.95	311160	403781	29.80
Aroclor-1016 (4)	06.42	06.32	06.52	1066628	984666	7.70
Aroclor-1016 (5)	06.66	06.56	06.76	424144	428477	1.00
Average-Aroclor-1260	-----	-----	-----	963897	967087	0.30
Aroclor-1260 (1)	10.06	09.96	10.16	578436	511702	11.50
Aroclor-1260 (2)	10.70	10.60	10.80	1202407	1375504	14.40
Aroclor-1260 (3)	11.34	11.24	11.44	1000381	995055	0.50
Aroclor-1260 (4)	12.83	12.73	12.93	1648039	1527679	7.30
Aroclor-1260 (5)	14.89	14.79	14.99	390220	425497	9.00
Tetrachloro-m-xylene	04.25	04.15	04.35	12039880	12060070	0.20
Decachlorobiphenyl	16.00	15.90	16.10	10947110	11517900	5.20
					Average %D:	8.31

* - Outside of QC limits

F-VII

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (500):	S8J1201-CCV3(2)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23452.D	Date Analyzed:	10/12/2018 22:38
PCBs	Column 2	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016 [2C]	-----	-----	-----	185625	205202	10.50
Aroclor-1016 (1) [2C]	06.27	06.17	06.37	89712	102332	14.10
Aroclor-1016 (2) [2C]	07.13	07.03	07.23	182386	202774	11.20
Aroclor-1016 (3) [2C]	07.68	07.58	07.78	77154	92581	20.00
Aroclor-1016 (4) [2C]	08.20	08.10	08.30	407320	428289	5.10
Aroclor-1016 (5) [2C]	08.49	08.39	08.59	171552	200033	16.60
Average-Aroclor-1260 [2C]	-----	-----	-----	297563	322063	8.20
Aroclor-1260 (1) [2C]	12.45	12.35	12.55	211007	235643	11.70
Aroclor-1260 (2) [2C]	12.95	12.85	13.05	267464	309658	15.80
Aroclor-1260 (3) [2C]	13.33	13.23	13.43	239078	236292	1.20
Aroclor-1260 (4) [2C]	14.68	14.58	14.78	218661	230188	5.30
Aroclor-1260 (5) [2C]	15.28	15.18	15.38	551606	598535	8.50
Tetrachloro-m-xylene [2C]	05.25	05.15	05.35	4999281	5504700	10.10
Decachlorobiphenyl [2C]	20.24	20.14	20.34	5281753	5213400	1.30
					Average %D:	10.08

* - Outside of QC limits

F-VII

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181012\6B23452.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181012\6B23452.D\ECD2B.CH
Acq On : 12 Oct 2018 22:38 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 13 11:53 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.25	5.25	603.0E6	275.2E6	50.084	55.055
Spiked Amount 50.000	Range 40 - 149		Recovery =		100.17%	110.11%
2) S Decachlorobiphen	16.00	20.24	575.9E6	260.7E6	52.607	49.353
Spiked Amount 50.000	Range 52 - 136		Recovery =		105.21%	98.71%
Target Compounds						
3) L3 Aroclor-1016 (1)	4.86	6.27	113.2E6	51165995	534.781m	570.335
4) L3 Aroclor-1016 (2)	5.47	7.13	229.5E6	101.4E6	530.706	555.892
5) L3 Aroclor-1016 (3)	5.85	7.68	201.9E6	46290428	648.831m	604.758
6) L3 Aroclor-1016 (4)	6.42	8.20	492.3E6	214.1E6	461.579m	525.741
7) L3 Aroclor-1016 (5)	6.66	8.49	214.2E6	100.0E6	505.108m	583.008
Sum Aroclor-1016 (1)			1251.2E6	513.0E6	2681.005	2839.734
Average Aroclor-1016 (1)					536.201	567.947
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
28) L9 Aroclor-1260 (1)	10.06	12.45	255.9E6	117.8E6	442.316m	558.378 #
29) L9 Aroclor-1260 (2)	10.70	12.95	687.8E6	154.8E6	571.979m	578.878
30) L9 Aroclor-1260 (3)	11.34	13.33	497.5E6	118.1E6	497.338m	494.174
31) L9 Aroclor-1260 (4)	12.83	14.68	763.8E6	115.1E6	463.484m	526.359
32) L9 Aroclor-1260 (5)	14.89	15.28	212.7E6	299.3E6	545.200	542.539
Sum Aroclor-1260 (1)			2417.7E6	805.2E6	2520.318	2700.327
Average Aroclor-1260 (1)					504.064	540.065
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

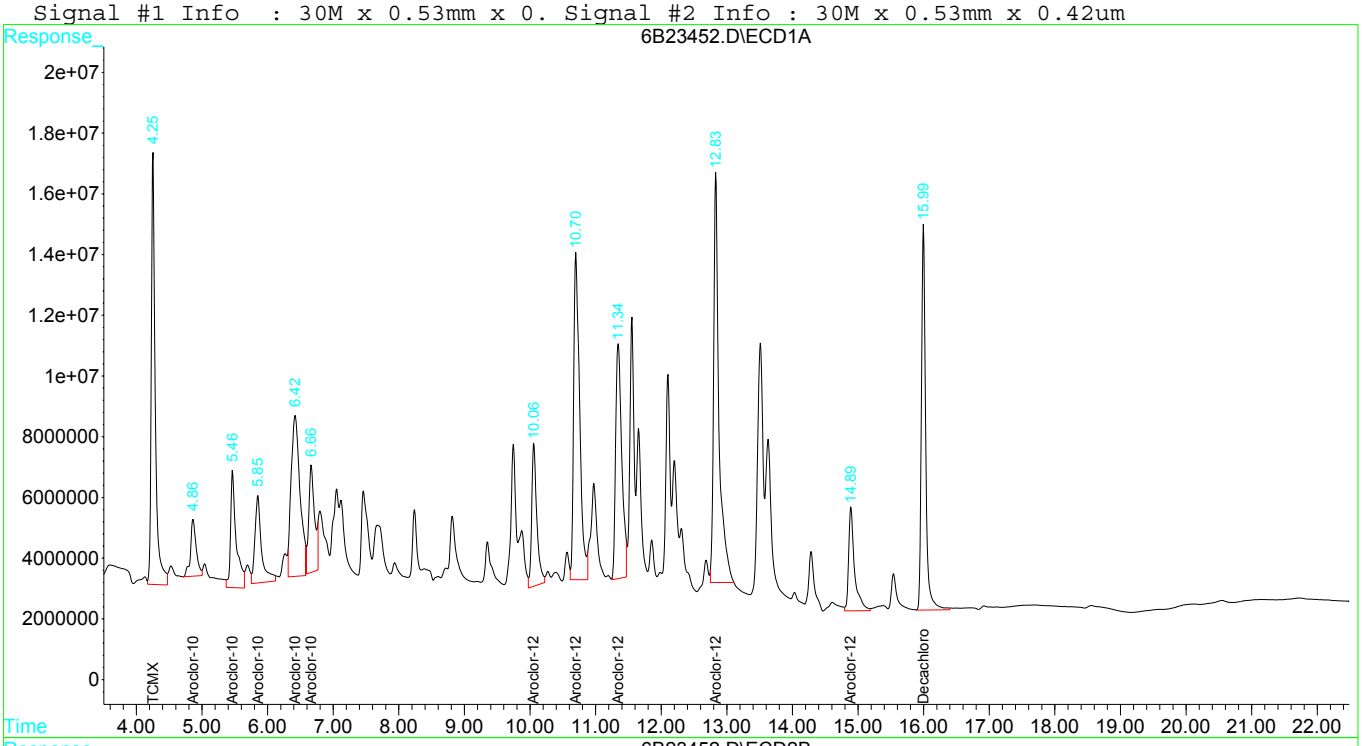
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
6B23452.D 80820925.M Sat Oct 13 11:58:23 2018 SS

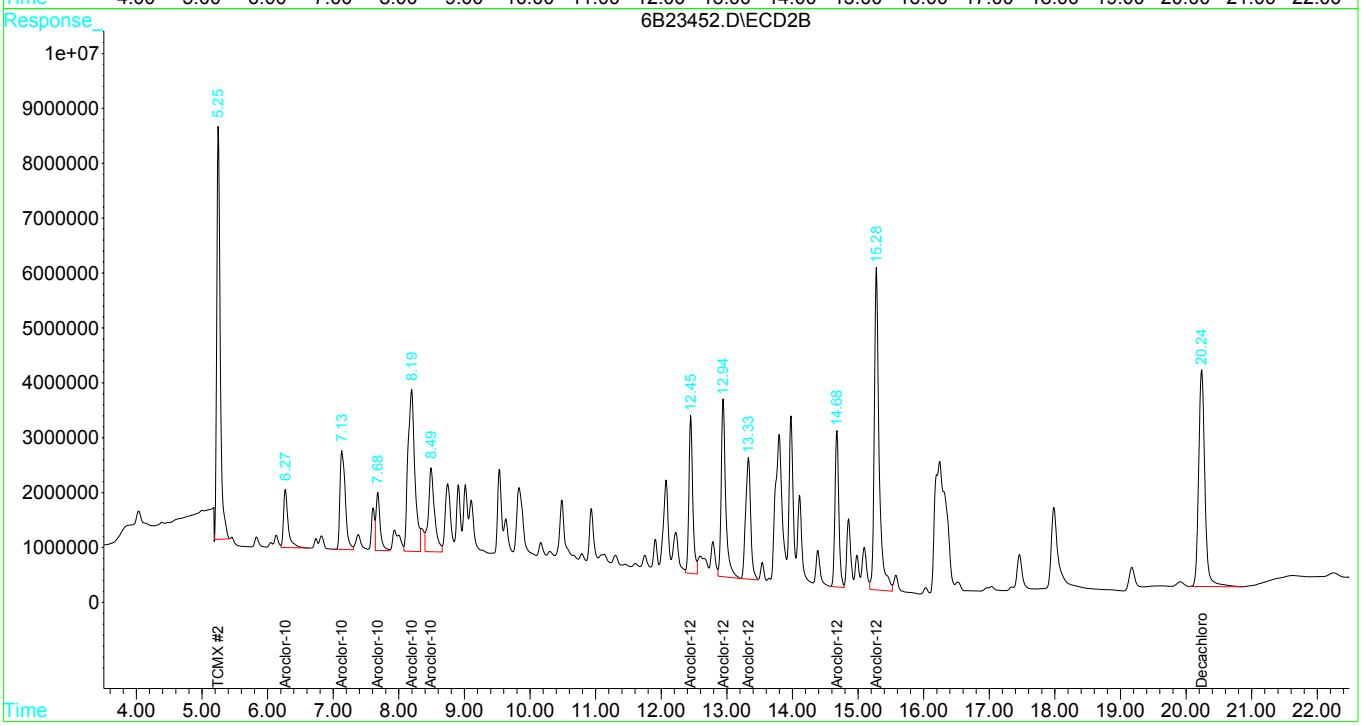
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181012\6B23452.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181012\6B23452.D\ECD2B.CH
Acq On : 12 Oct 2018 22:38 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 13 11:53 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





GC

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1103-BLK1**		

		Prep Date:	10/11/2018 08:17	File ID:	E22949.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/2018 21:15
		Matrix:	Soil	Sequence:	S8J1218
		Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.0	20.0	U

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22949.D Vial: 16
Acq On : 11 Oct 2018 9:15 pm Operator: BW
Sample : B8J1103-BLK1 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 16:06 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
Target Compounds					
9)	o-Terphenyl	13.57	580602	26.368	mg/L
11)	Chlorooctadecane	14.45	400643	23.543	mg/L

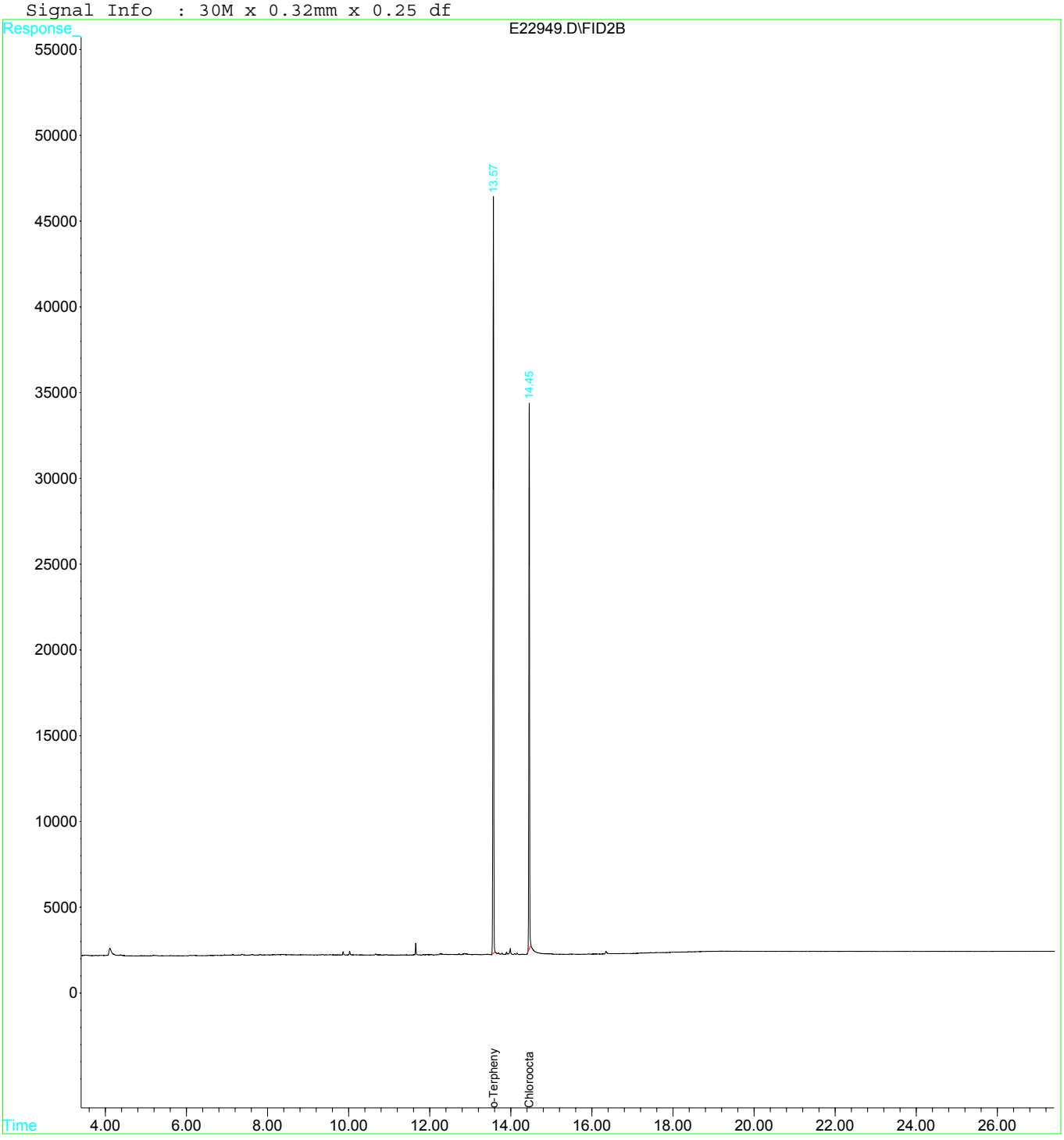
(f)=RT Delta > 1/2 Window (m)=manual int.
E22949.D ALIP1106.M Fri Oct 12 16:06:45 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22949.D Vial: 16
Acq On : 11 Oct 2018 9:15 pm Operator: BW
Sample : B8J1103-BLK1 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 16:06 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22935.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 12:51
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	89.91	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	62.8	11.1	22.2	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22935.D Vial: 2
Acq On : 11 Oct 2018 12:51 pm Operator: BW
Sample : 8100452-01 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 13:42 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
9)	o-Terphenyl	13.57	574237	26.079	mg/L	
11)	Chlorooctadecane	14.46	417116	24.511	mg/L	
25)	Total EPH	13.57	8160091	332.829	mg/L	m

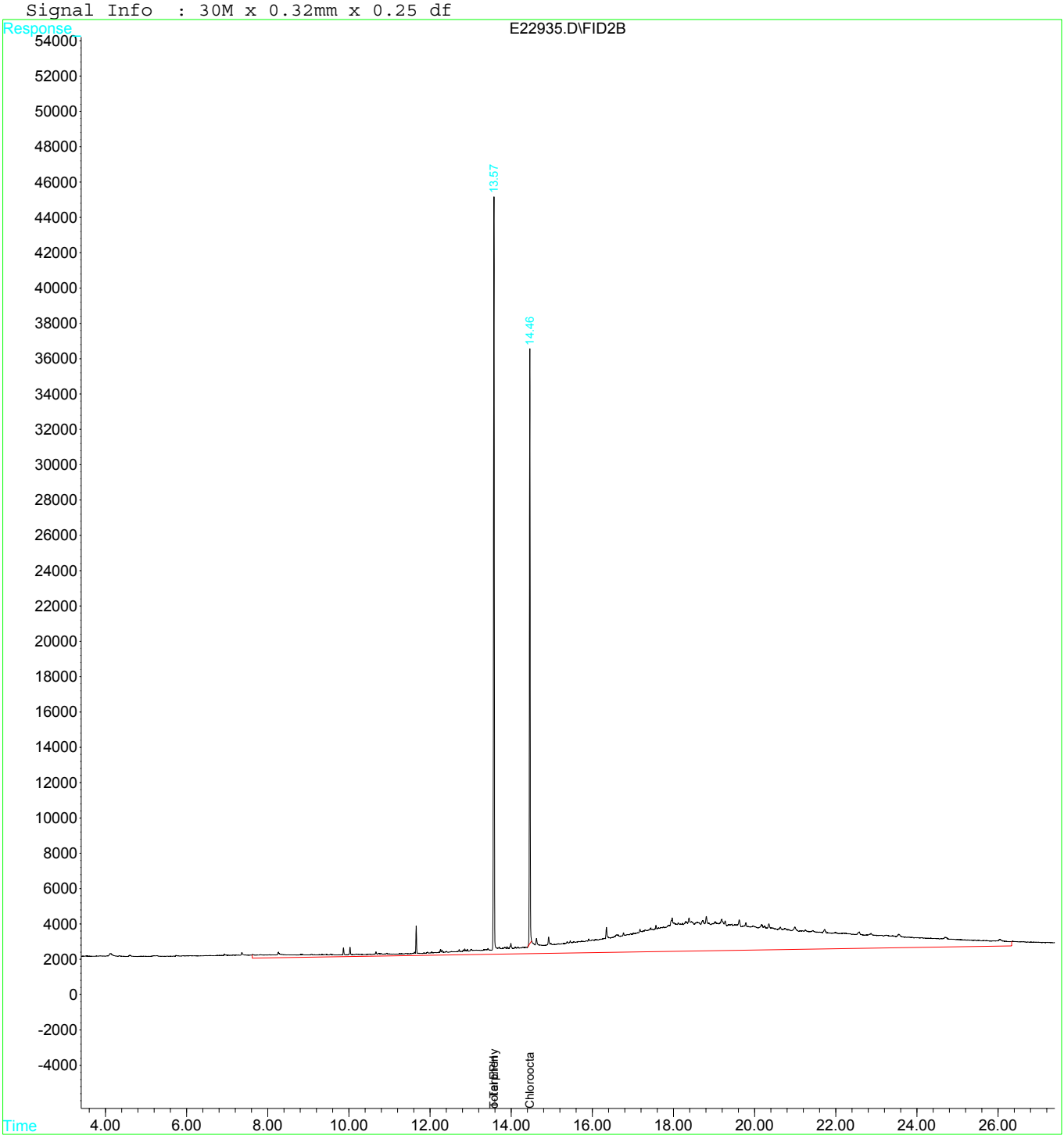
(f)=RT Delta > 1/2 Window (m)=manual int.
E22935.D ALIP1106.M Fri Oct 12 16:06:24 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22935.D Vial: 2
Acq On : 11 Oct 2018 12:51 pm Operator: BW
Sample : 8100452-01 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 13:42 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22936.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 13:27
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	92.54	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	97.5	10.8	21.6	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22936.D Vial: 3
Acq On : 11 Oct 2018 1:27 pm Operator: BW
Sample : 8100452-02 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 14:07 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
9)	o-Terphenyl	13.58	612460	27.814	mg/L
11)	Chlorooctadecane	14.46	456551	26.828	mg/L
25)	Total EPH	13.57	12400867	505.799	mg/L m

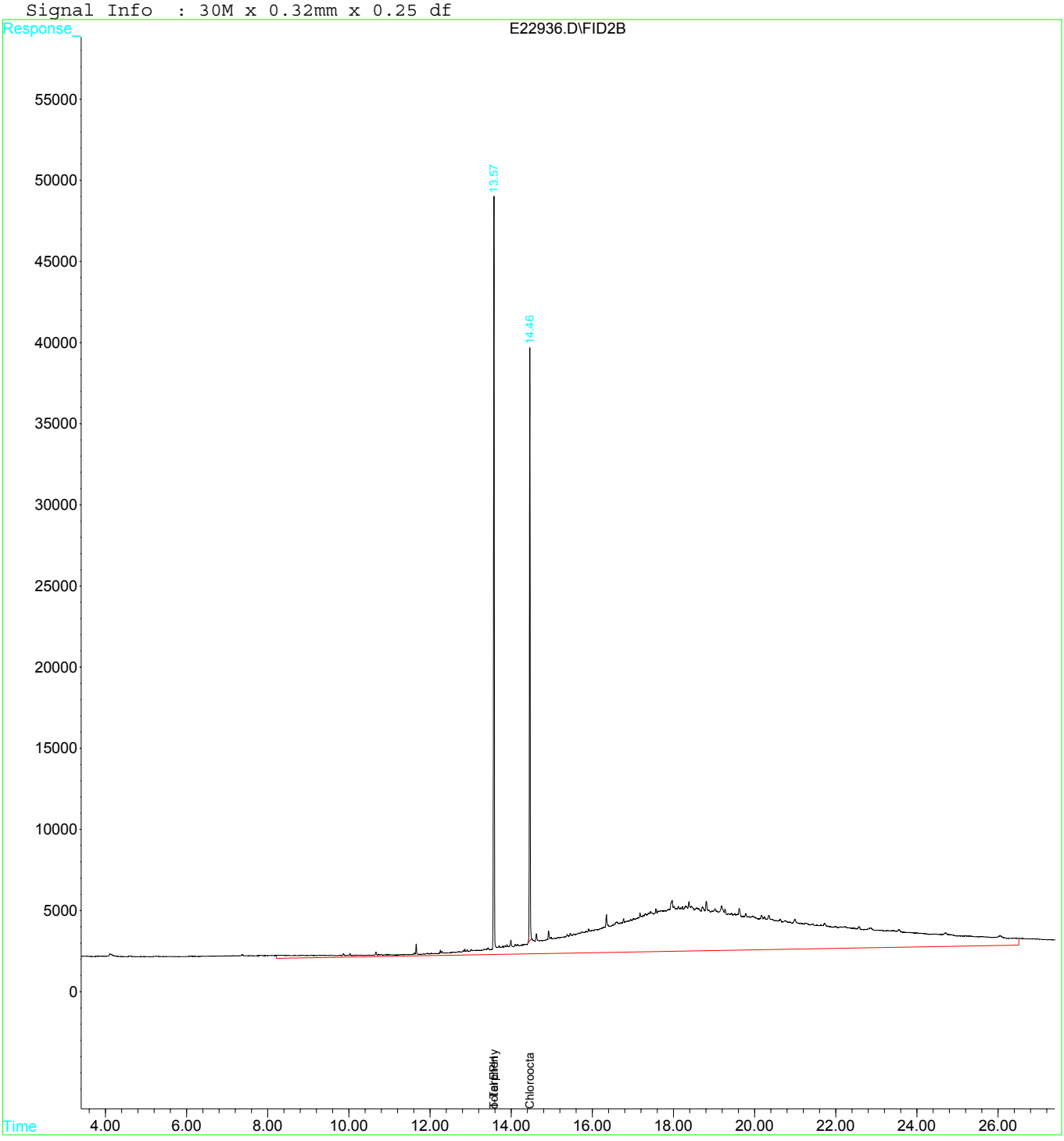
(f)=RT Delta > 1/2 Window (m)=manual int.
E22936.D ALIP1106.M Fri Oct 12 16:06:27 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22936.D Vial: 3
Acq On : 11 Oct 2018 1:27 pm Operator: BW
Sample : 8100452-02 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 14:07 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-2B**
Lab Sample ID: **8100452-03**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22937.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 14:02
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	92.25	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	38.1	10.8	21.7	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22937.D Vial: 4
Acq On : 11 Oct 2018 2:02 pm Operator: BW
Sample : 8100452-03 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 14:32 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
9)	o-Terphenyl	13.57	599348	27.219	mg/L
11)	Chlorooctadecane	14.46	445679	26.189	mg/L
25)	Total EPH	13.57	5622677	229.334	mg/L m

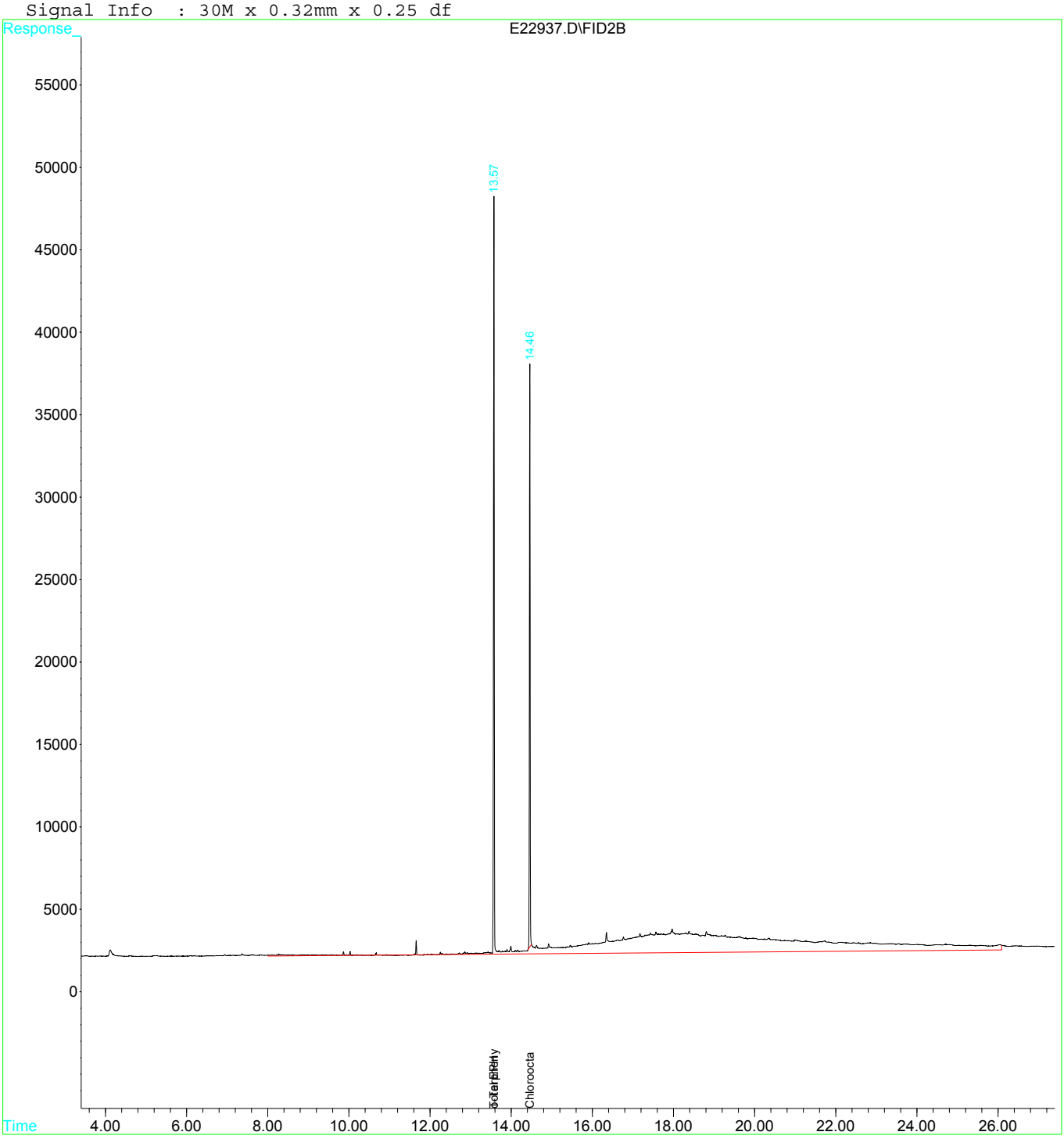
(f)=RT Delta > 1/2 Window (m)=manual int.
E22937.D ALIP1106.M Fri Oct 12 16:06:30 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22937.D Vial: 4
Acq On : 11 Oct 2018 2:02 pm Operator: BW
Sample : 8100452-03 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 14:32 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-3B**
Lab Sample ID: **8100452-04**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22938.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 14:37
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	91.33	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.9	21.9	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22938.D Vial: 5
Acq On : 11 Oct 2018 2:37 pm Operator: BW
Sample : 8100452-04 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 15:28 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
Target Compounds					
9)	o-Terphenyl	13.57	569746	25.875	mg/L
11)	Chlorooctadecane	14.46	414587	24.362	mg/L

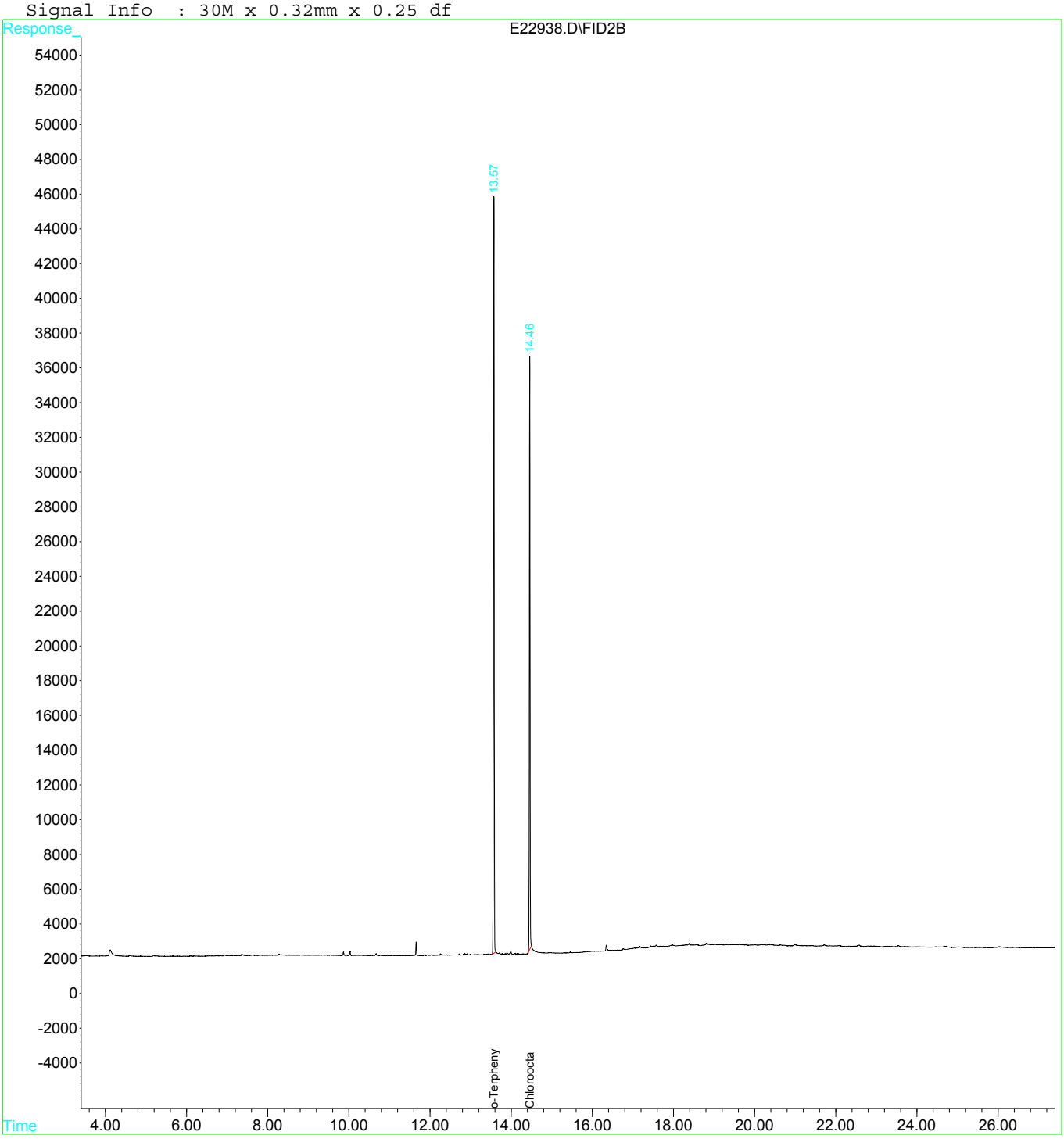
(f)=RT Delta > 1/2 Window (m)=manual int.
E22938.D ALIP1106.M Fri Oct 12 16:06:33 2018 SS

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22938.D Vial: 5
Acq On : 11 Oct 2018 2:37 pm Operator: BW
Sample : 8100452-04 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 15:28 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/11/18 08:17	File ID:	E22939.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 15:25
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	92.00	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.9	21.7	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22939.D Vial: 6
Acq On : 11 Oct 2018 3:25 pm Operator: BW
Sample : 8100452-05 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 16:22 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
Target Compounds					
9)	o-Terphenyl	13.57	571790	25.968	mg/L
11)	Chlorooctadecane	14.46	422450	24.824	mg/L

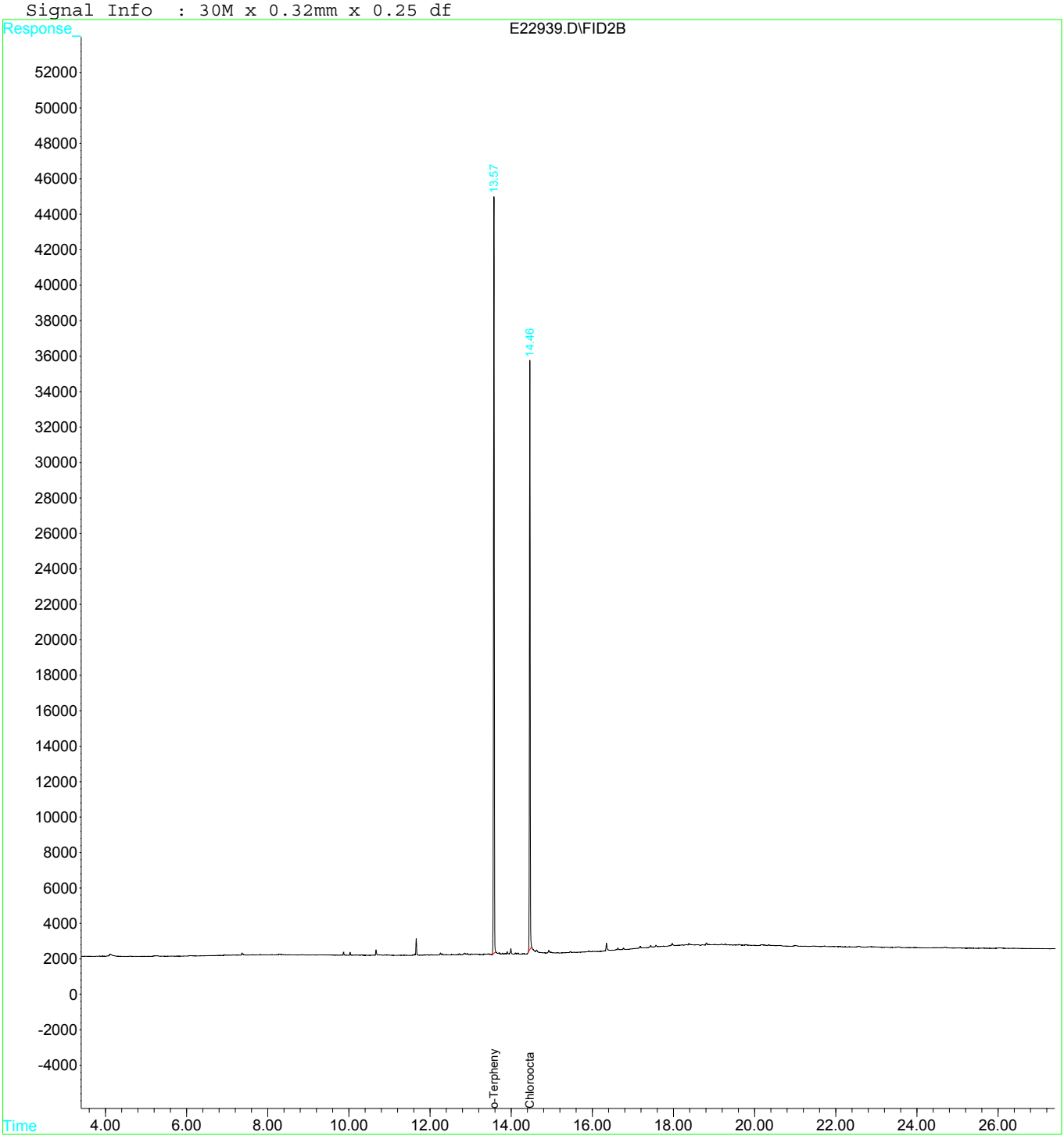
(f)=RT Delta > 1/2 Window (m)=manual int.
E22939.D ALIP1106.M Fri Oct 12 16:06:35 2018 SS

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22939.D Vial: 6
Acq On : 11 Oct 2018 3:25 pm Operator: BW
Sample : 8100452-05 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 16:22 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/11/18 08:17	File ID:	E22940.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 16:00
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	87.70	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	11.4	22.8	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22940.D Vial: 7
Acq On : 11 Oct 2018 4:00 pm Operator: BW
Sample : 8100452-06 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 16:56 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
Target Compounds					
9)	o-Terphenyl	13.57	520767	23.650	mg/L
11)	Chlorooctadecane	14.46	379562	22.304	mg/L

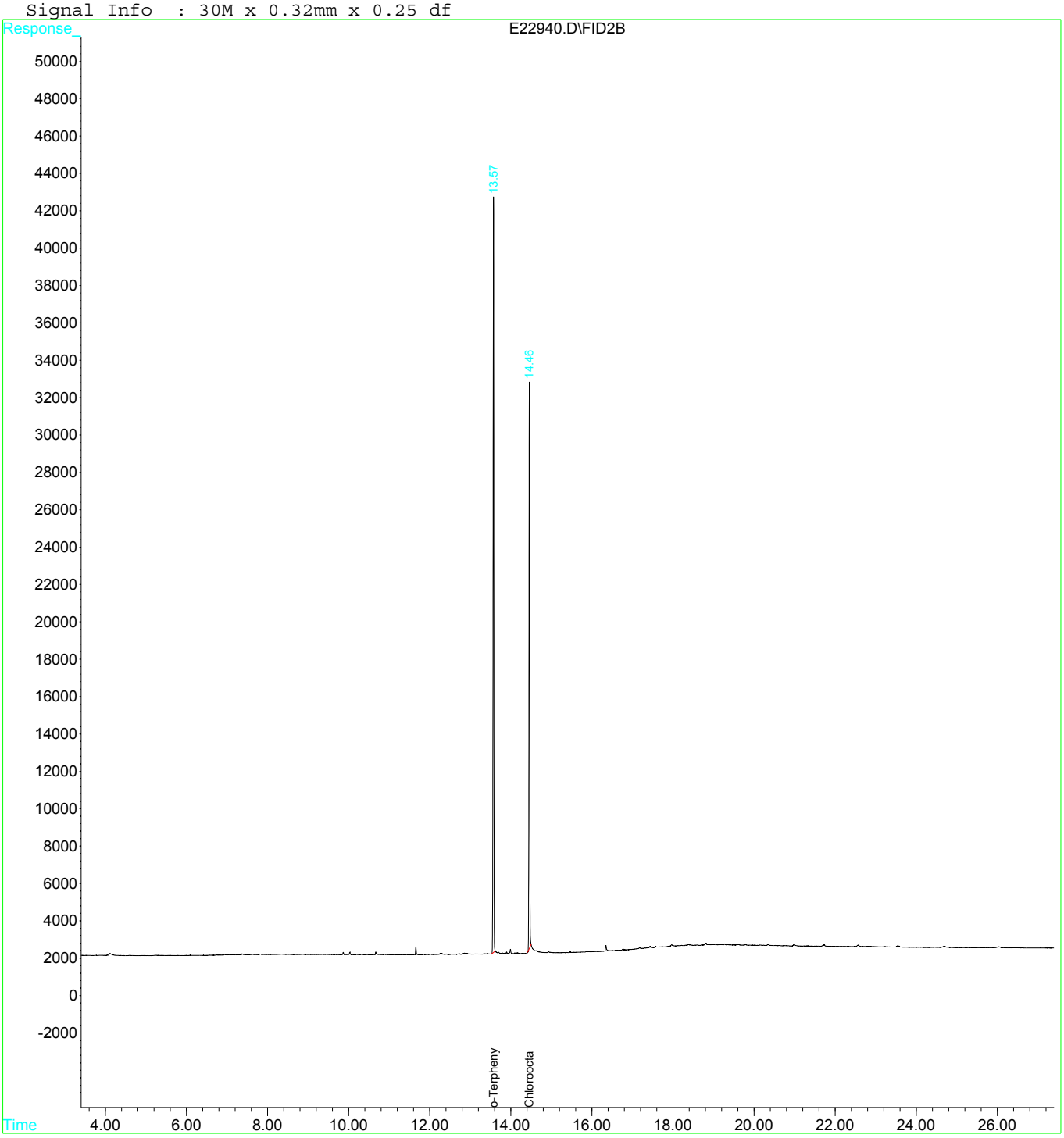
(f)=RT Delta > 1/2 Window (m)=manual int.
E22940.D ALIP1106.M Fri Oct 12 16:06:37 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22940.D Vial: 7
Acq On : 11 Oct 2018 4:00 pm Operator: BW
Sample : 8100452-06 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 16:56 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



E22940.D ALIP1106.M Fri Oct 12 16:06:38 2018 SS Page 2

ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/11/18 08:17	File ID:	E22941.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 16:35
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	91.36	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	65.8	10.9	21.9	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22941.D Vial: 8
Acq On : 11 Oct 2018 4:35 pm Operator: BW
Sample : 8100452-07 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 17:08 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
9)	o-Terphenyl	13.57	547163	24.849	mg/L
11)	Chlorooctadecane	14.46	400305	23.523	mg/L
25)	Total EPH	13.57	8555007	348.936	mg/L m

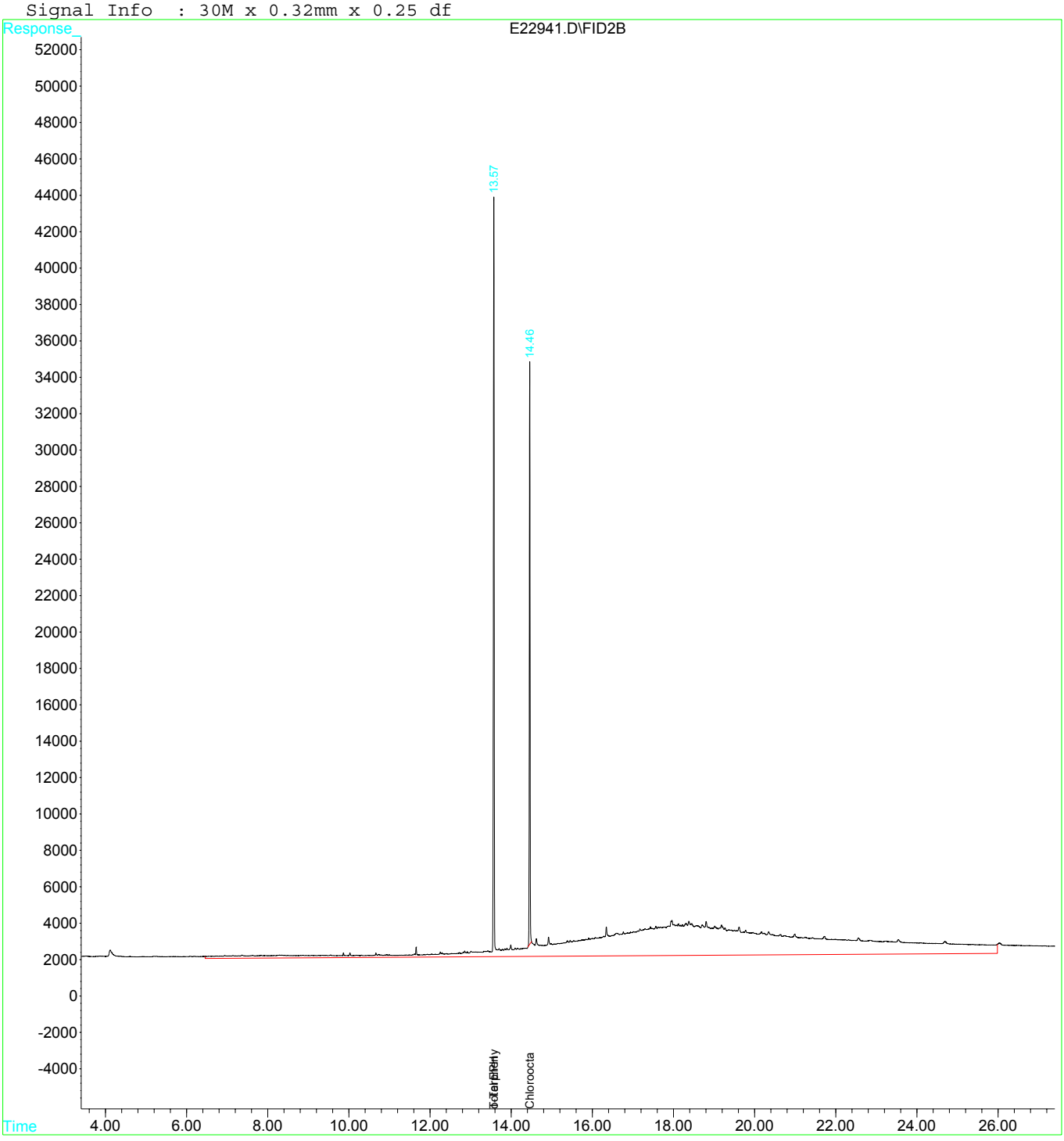
(f)=RT Delta > 1/2 Window (m)=manual int.
E22941.D ALIP1106.M Fri Oct 12 16:06:40 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22941.D Vial: 8
Acq On : 11 Oct 2018 4:35 pm Operator: BW
Sample : 8100452-07 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 17:08 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



E22941.D ALIP1106.M Fri Oct 12 16:06:40 2018 SS Page 2

ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 08:17	File ID:	E22942.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 17:10
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	89.59	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	11.2	22.3	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22942.D Vial: 9
Acq On : 11 Oct 2018 5:10 pm Operator: BW
Sample : 8100452-08 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 9:27 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc Units
Target Compounds				
9)	o-Terphenyl	13.57	553827	25.152 mg/L
11)	Chlorooctadecane	14.46	410480	24.121 mg/L

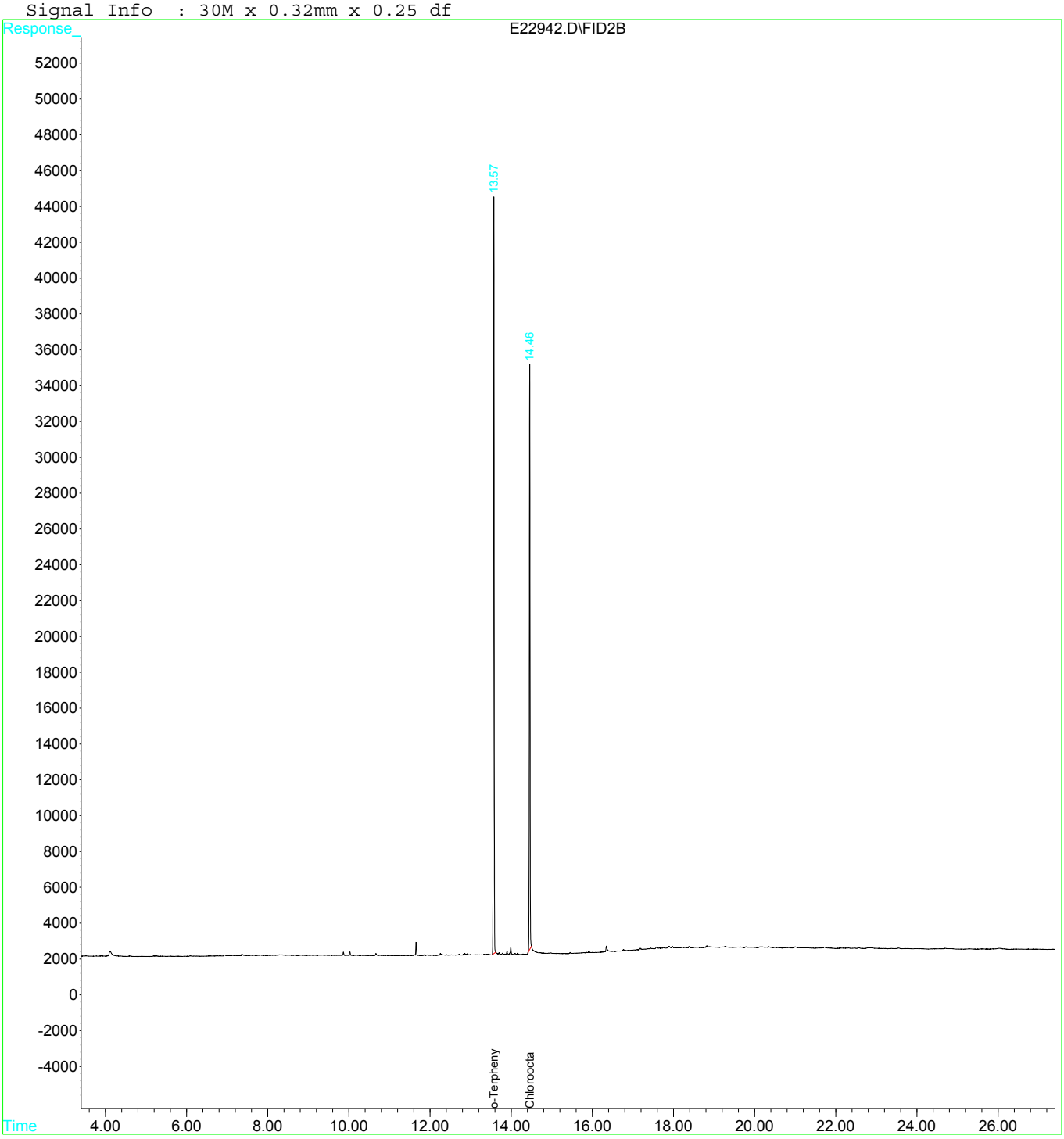
(f)=RT Delta > 1/2 Window (m)=manual int.
E22942.D ALIP1106.M Fri Oct 12 16:06:43 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22942.D Vial: 9
Acq On : 11 Oct 2018 5:10 pm Operator: BW
Sample : 8100452-08 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 9:27 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-2B**
Lab Sample ID: **8100452-09**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:30	Prep Date:	10/11/18 08:17	File ID:	E22960.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/12/18 11:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1601
Percent Solids:	91.55	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.9	21.8	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22960.D Vial: 2
Acq On : 12 Oct 2018 11:28 am Operator: BW
Sample : 8100452-09 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:26 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
9)	o-Terphenyl	13.57	492675	22.375	mg/L
11)	Chlorooctadecane	14.45	360379	21.177	mg/L m

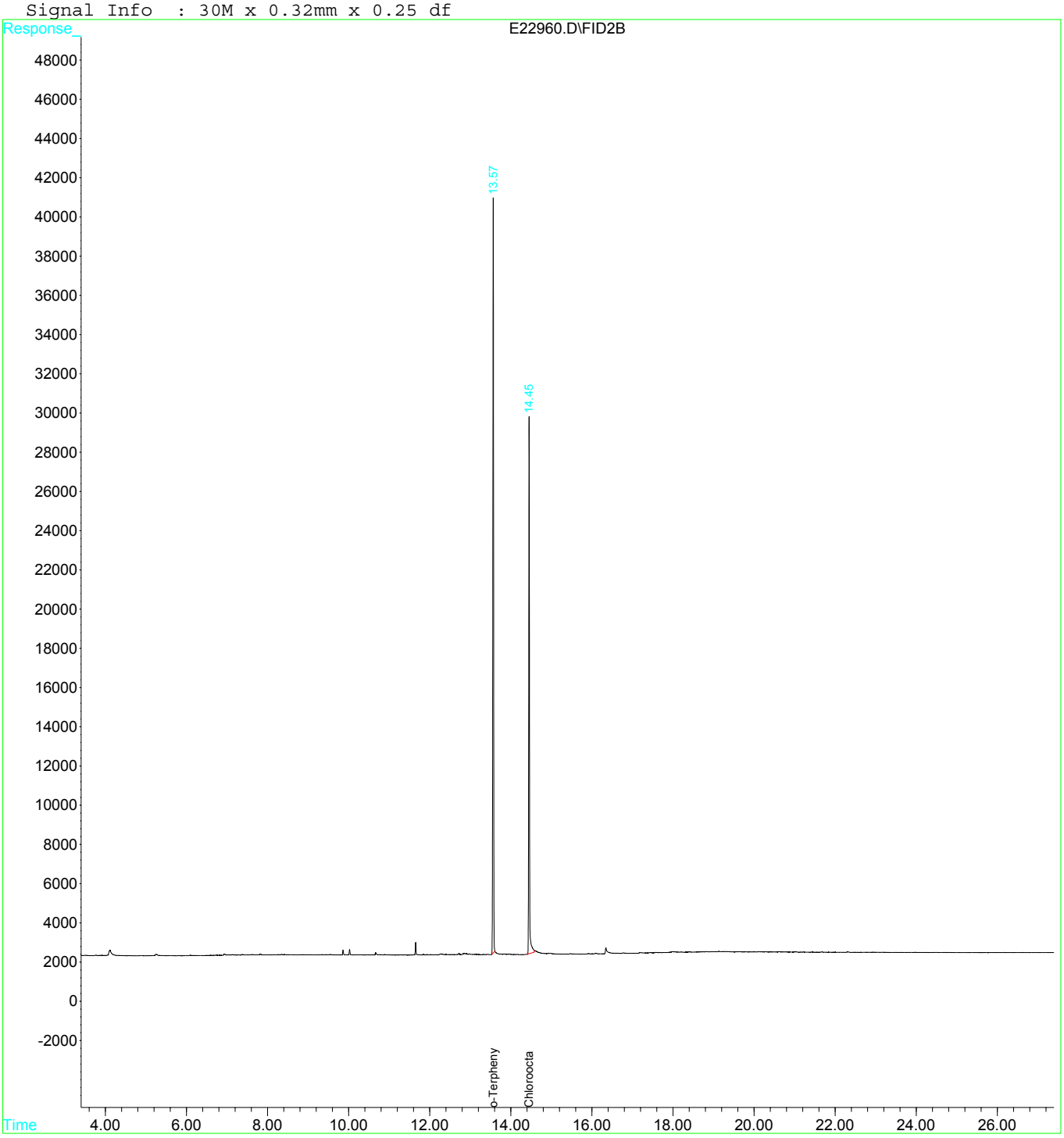
(f)=RT Delta > 1/2 Window (m)=manual int.
E22960.D ALIP1106.M Tue Oct 16 10:11:51 2018 SS

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22960.D Vial: 2
Acq On : 12 Oct 2018 11:28 am Operator: BW
Sample : 8100452-09 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:26 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-3B**
Lab Sample ID: **8100452-10**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:40	Prep Date:	10/11/18 08:17	File ID:	E22961.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/12/18 12:03
Dilution:	1	Matrix:	Soil	Sequence:	S8J1601
Percent Solids:	91.53	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.9	21.9	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22961.D Vial: 3
Acq On : 12 Oct 2018 12:03 pm Operator: BW
Sample : 8100452-10 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:27 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
9)	o-Terphenyl	13.57	538206	24.442	mg/L	
11)	Chlorooctadecane	14.45	372031	21.861	mg/L	m

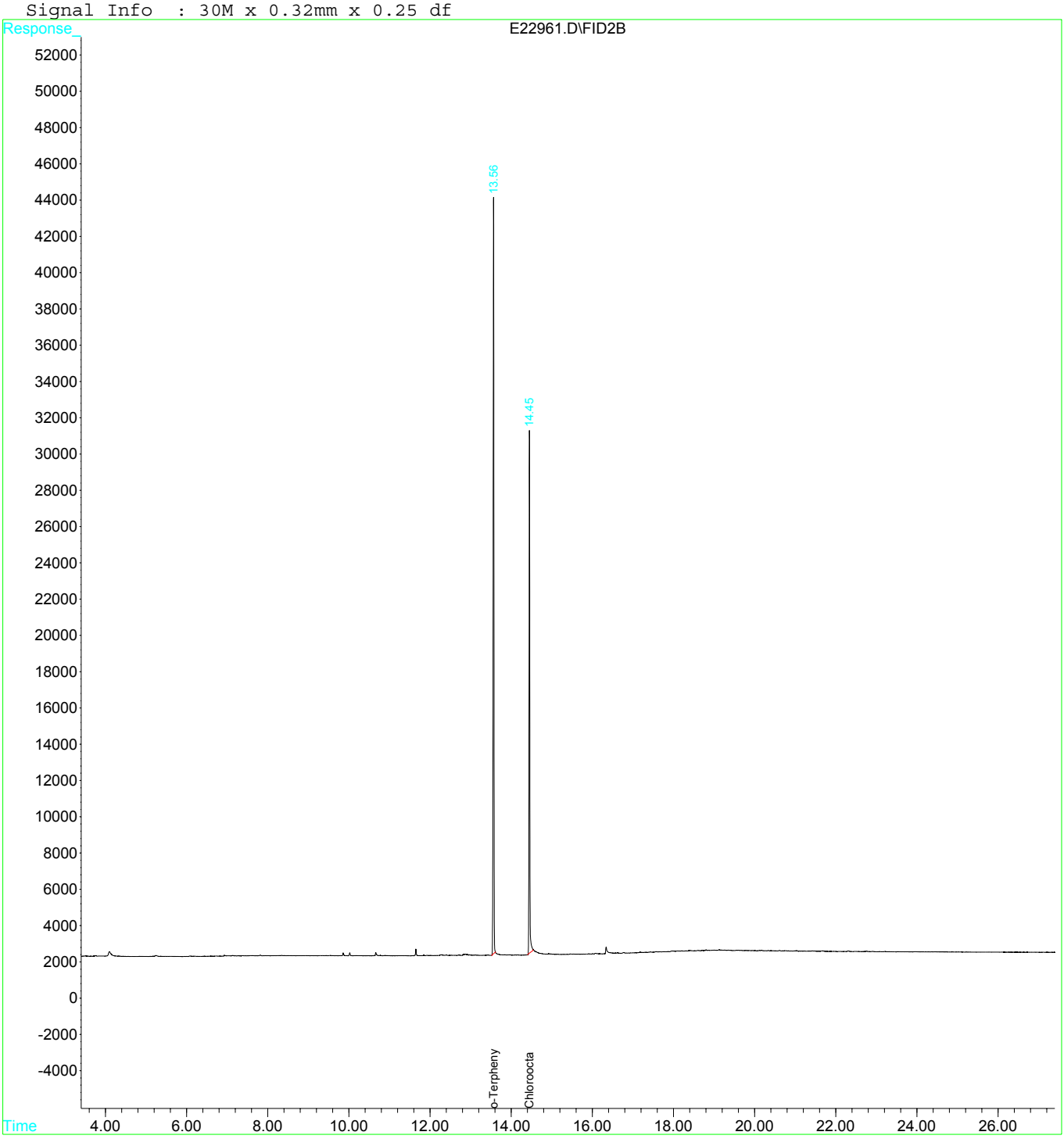
(f)=RT Delta > 1/2 Window (m)=manual int.
E22961.D ALIP1106.M Tue Oct 16 10:11:54 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22961.D Vial: 3
Acq On : 12 Oct 2018 12:03 pm Operator: BW
Sample : 8100452-10 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:27 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22962.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/12/18 12:38
Dilution:	1	Matrix:	Soil	Sequence:	S8J1601
Percent Solids:	90.63	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	11.0	22.1	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22962.D Vial: 4
Acq On : 12 Oct 2018 12:38 pm Operator: BW
Sample : 8100452-11 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:27 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
Target Compounds					
9)	o-Terphenyl	13.56	556782	25.286	mg/L
11)	Chlorooctadecane	14.45	381375	22.410	mg/L

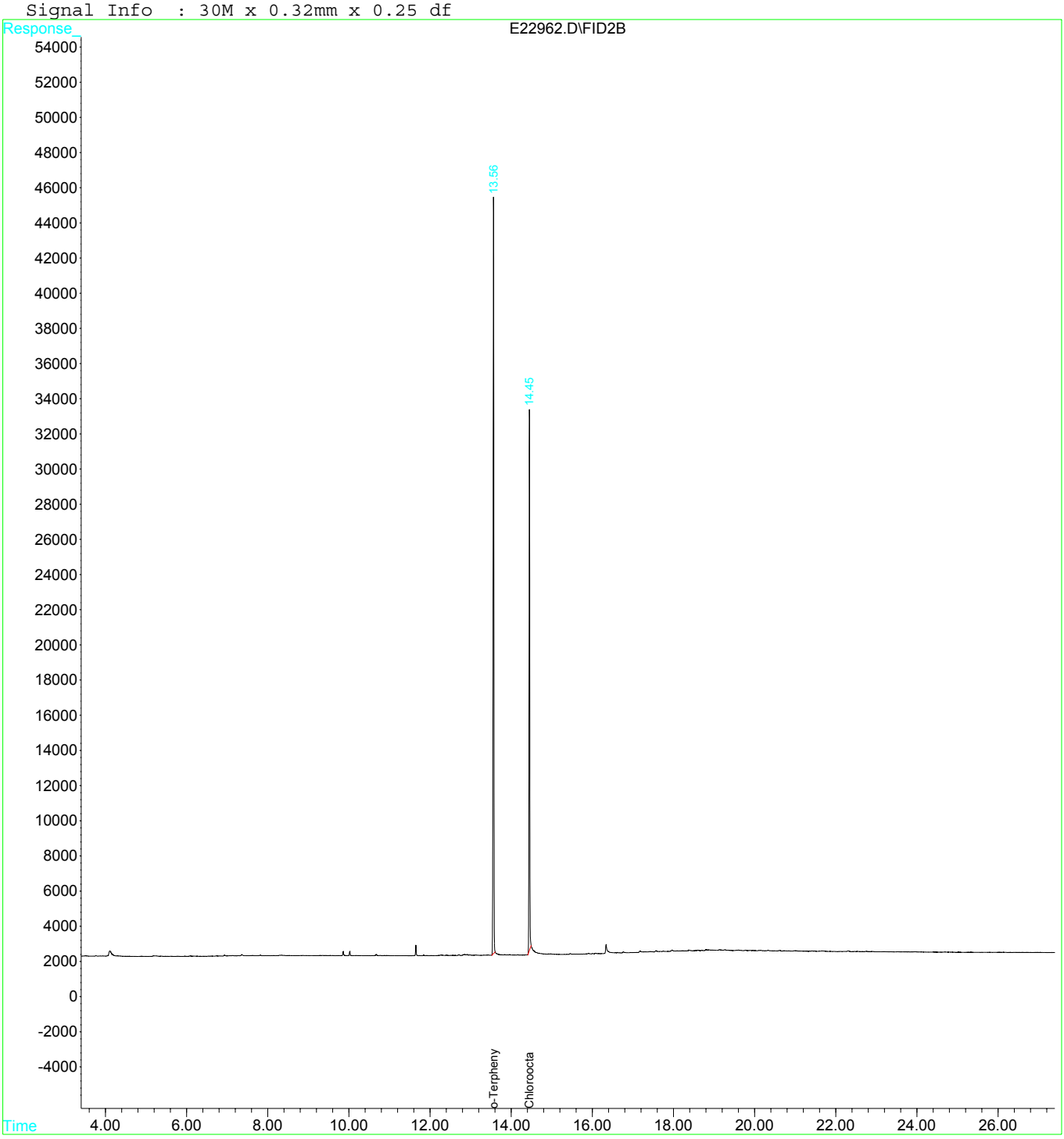
(f)=RT Delta > 1/2 Window (m)=manual int.
E22962.D ALIP1106.M Tue Oct 16 10:11:57 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22962.D Vial: 4
Acq On : 12 Oct 2018 12:38 pm Operator: BW
Sample : 8100452-11 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:27 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22963.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/12/18 13:13
Dilution:	1	Matrix:	Soil	Sequence:	S8J1601
Percent Solids:	91.70	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.9	21.8	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22963.D Vial: 5
Acq On : 12 Oct 2018 1:13 pm Operator: BW
Sample : 8100452-12 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:54 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
Target Compounds					
9)	o-Terphenyl	13.56	542074	24.618	mg/L
11)	Chlorooctadecane	14.45	375904	22.089	mg/L

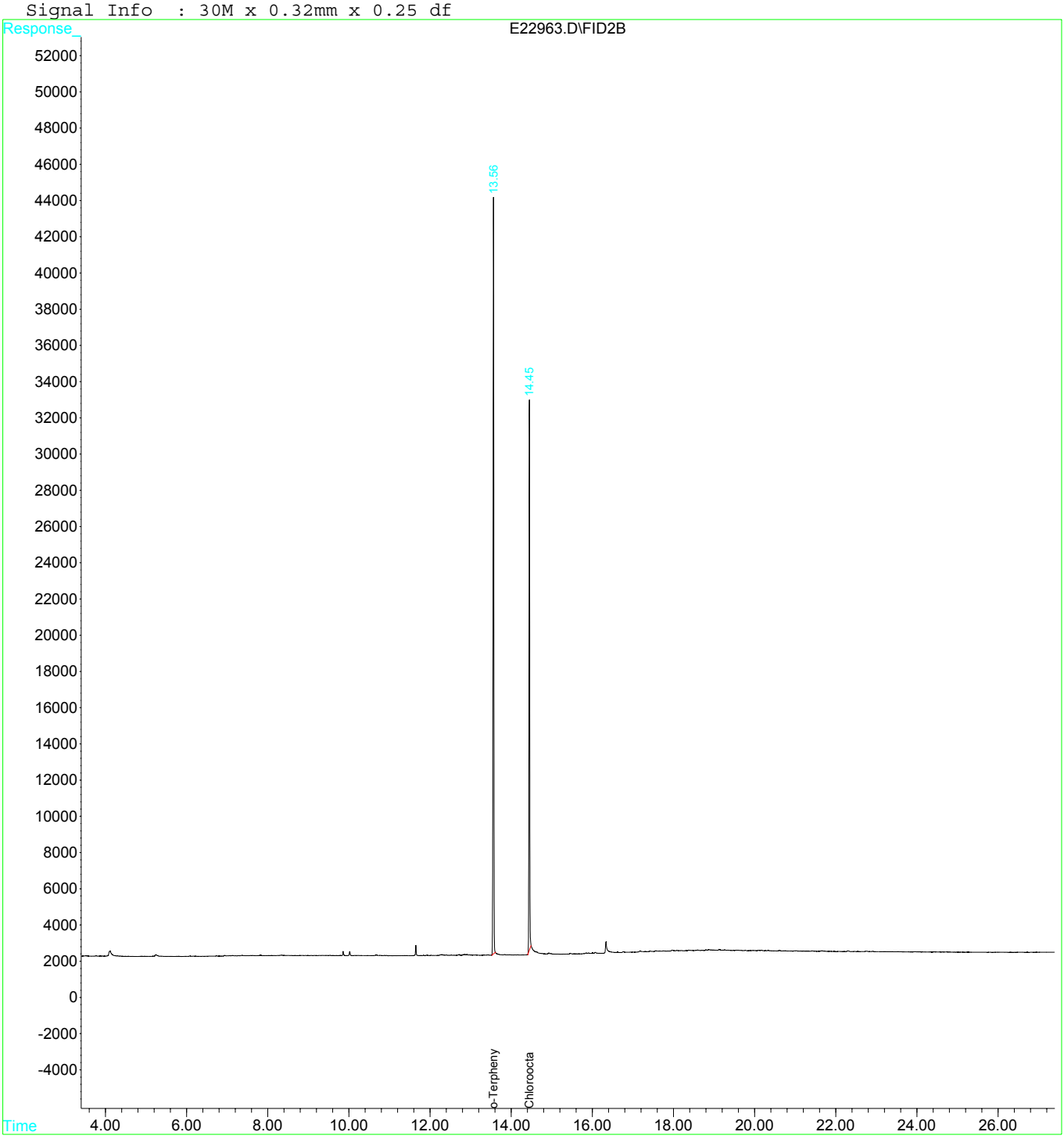
(f)=RT Delta > 1/2 Window (m)=manual int.
E22963.D ALIP1106.M Tue Oct 16 10:11:59 2018 SS

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22963.D Vial: 5
Acq On : 12 Oct 2018 1:13 pm Operator: BW
Sample : 8100452-12 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:54 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-5**
Lab Sample ID: **8100452-13**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22966.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/12/18 15:07
Dilution:	1	Matrix:	Soil	Sequence:	S8J1601
Percent Solids:	92.63	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.8	21.6	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22966.D Vial: 9
Acq On : 12 Oct 2018 3:07 pm Operator: BW
Sample : 8100452-13 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 16:01 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
9)	o-Terphenyl	13.56	533738	24.239	mg/L	
11)	Chlorooctadecane	14.45f	378388	22.235	mg/L	m

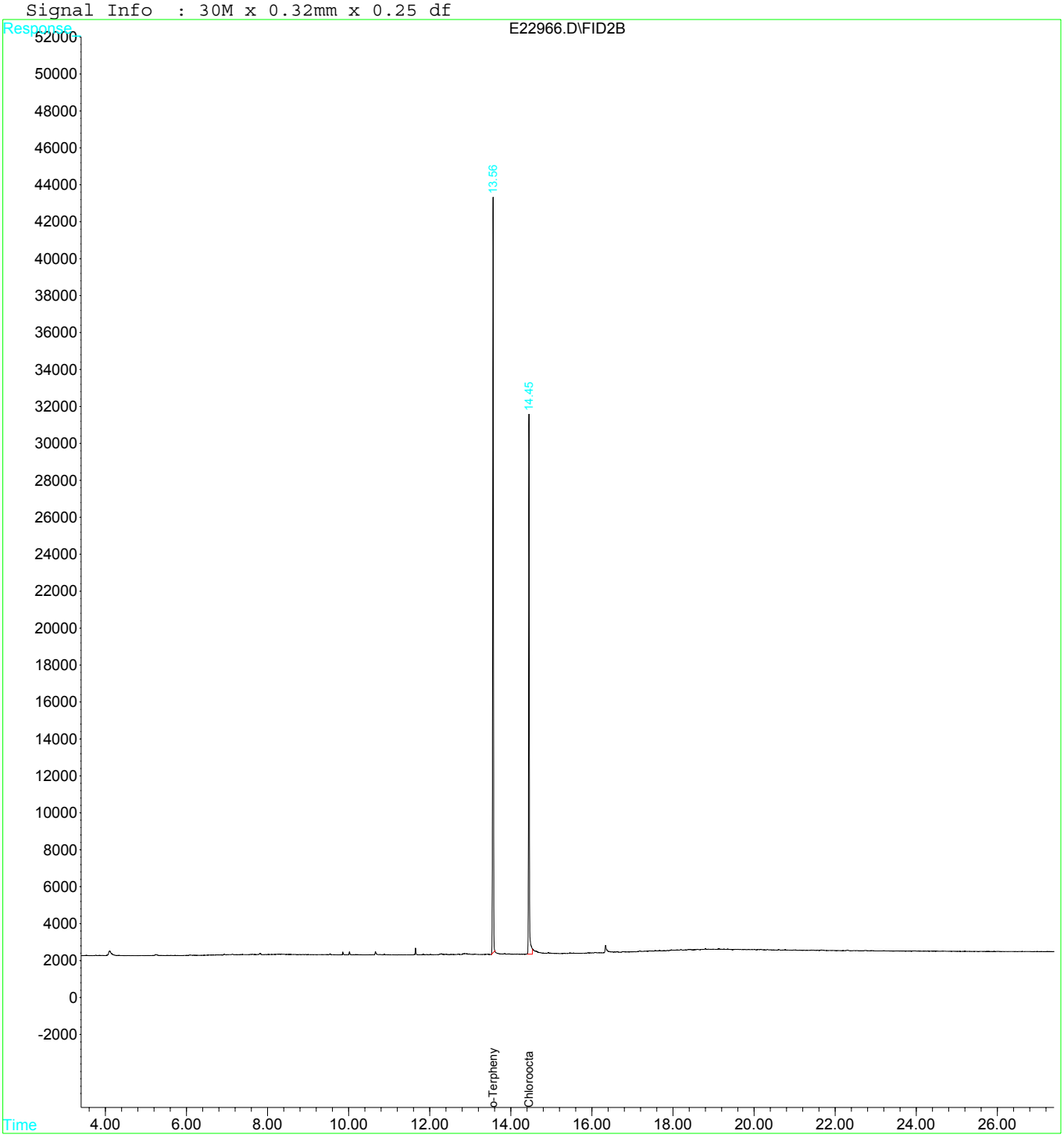
(f)=RT Delta > 1/2 Window (m)=manual int.
E22966.D ALIP1106.M Tue Oct 16 10:12:01 2018 SS

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22966.D Vial: 9
Acq On : 12 Oct 2018 3:07 pm Operator: BW
Sample : 8100452-13 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 16:01 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22967.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/12/18 15:42
Dilution:	1	Matrix:	Soil	Sequence:	S8J1601
Percent Solids:	92.94	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.8	21.5	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22967.D Vial: 10
Acq On : 12 Oct 2018 3:42 pm Operator: BW
Sample : 8100452-14 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 16 10:11 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc Units
Target Compounds				
9)	o-Terphenyl	13.56	565545	25.684 mg/L
11)	Chlorooctadecane	14.45f	384500	22.594 mg/L

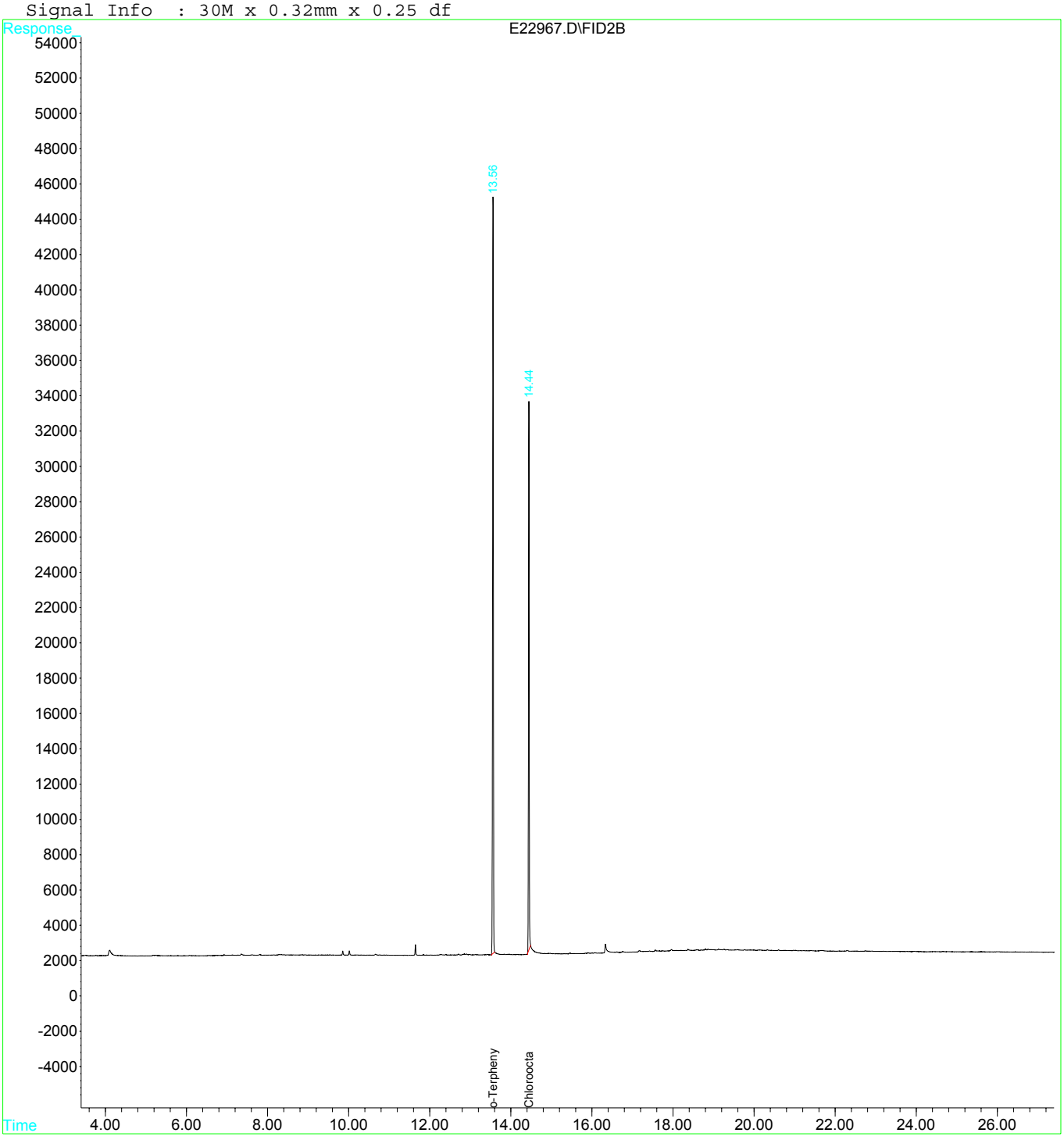
(f)=RT Delta > 1/2 Window (m)=manual int.
E22967.D ALIP1106.M Tue Oct 16 10:12:04 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22967.D Vial: 10
Acq On : 12 Oct 2018 3:42 pm Operator: BW
Sample : 8100452-14 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 16 10:11 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



SURROGATE RECOVERIES

Analysis Class: GC

Matrix: Soil **Method:** NJDEP-EPH-CAT2

EPH Category 2

Lab Number	File ID	1-COD	O-TPL
8100452-01	E22935.D	49.0	52.2
8100452-02	E22936.D	53.7	55.6
8100452-03	E22937.D	52.4	54.4
8100452-04	E22938.D	48.7	51.7
8100452-05	E22939.D	49.6	51.9
8100452-06	E22940.D	44.6	47.3
8100452-07	E22941.D	47.0	49.7
8100452-08	E22942.D	48.2	50.3
8100452-09	E22960.D	42.4	44.7
8100452-10	E22961.D	43.7	48.9
8100452-11	E22962.D	44.8	50.6
8100452-12	E22963.D	44.2	49.2
8100452-13	E22966.D	44.5	48.5
8100452-14	E22967.D	45.2	51.4

Surrogate Limits		Lo Limit	Hi Limit
1-COD	1-Chlorooctadecane	40	121
O-TPL	o-Terphenyl	42.2	113

F-II

* - Outside of QC Limits

Extractable Petroleum Hydrocarbons Category 2 - Quality Control

Aqua Pro-Tech Laboratories

Batch B8J1103 **Method: NJDEP-EPH-CAT2** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1103-BS1		Total EPH	187	mg/kg wet	360		52.0	40-140		

Batch B8J1103 (cont.) **Method: NJDEP-EPH-CAT2** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1103-DUP1	8100452-01	Total EPH	57.4	mg/kg dry		62.8			9.04	200

Batch B8J1103 (cont.) **Method: NJDEP-EPH-CAT2** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1103-MS1	8100452-01	Total EPH	282	mg/kg dry	400	62.8	54.7	40-140		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

METHOD BLANK SUMMARY

Batch ID: **B8J1103**

Lab Number	Sample Id	Extraction Date	Analysis Date
B8J1103-BLK1	BLK1	10/11/2018	10/11/2018 21:15
B8J1103-BS1	BS1	10/11/2018	10/11/2018 21:49
B8J1103-DUP1	DUP1	10/11/2018	10/11/2018 22:59
B8J1103-MS1	MS1	10/11/2018	10/11/2018 22:24
8100452-01	NTP-1A	10/11/2018	10/11/2018 12:51
8100452-02	NTP-2A	10/11/2018	10/11/2018 13:27
8100452-03	NTP-2B	10/11/2018	10/11/2018 14:02
8100452-04	NTP-3B	10/11/2018	10/11/2018 14:37
8100452-05	NTP-4B	10/11/2018	10/11/2018 15:25
8100452-06	NTP-6	10/11/2018	10/11/2018 16:00
8100452-07	NTP-7	10/11/2018	10/11/2018 16:35
8100452-08	STP-1B	10/11/2018	10/11/2018 17:10
8100452-09	STP-2B	10/11/2018	10/12/2018 11:28
8100452-10	STP-3B	10/11/2018	10/12/2018 12:03
8100452-11	STP-4A	10/11/2018	10/12/2018 12:38
8100452-12	STP-4B	10/11/2018	10/12/2018 13:13
8100452-13	STP-5	10/11/2018	10/12/2018 15:07
8100452-14	STP-7	10/11/2018	10/12/2018 15:42

Response Factor Report GCFID-3

Method : G:\HPCHEM\GCFID3\METHODS\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Nov 07 08:45:46 2017

Calibration Files
25 =E18801.D 50 =E18802.D 100 =E18803.D
200 =E18804.D 300 =E18805.D

	Compound	25	50	100	200	300	Avg		%RSD
1)	n-Nonane	1.957	2.055	2.017	2.283	2.256	2.114	E4	6.94
2)	n-Decane	1.929	1.969	1.798	2.291	2.259	2.049	E4	10.54
3)	n-Dodecane	1.690	1.727	1.855	2.306	2.225	1.961	E4	14.60
4)	C9-C12 Aliphatics	2.023	2.043	2.218	2.527	2.321	2.227	E4	9.38
5)	n-Tetradecane	1.683	1.730	1.841	2.294	2.211	1.952	E4	14.46
6)	n-Hexadecane	1.821	1.878	1.858	2.302	2.218	2.015	E4	11.22
7)	C12-C16 Aliphatics	2.015	2.041	2.102	2.407	2.297	2.172	E4	7.89
8)	n-Octadecane	1.848	1.890	1.870	2.307	2.229	2.029	E4	10.86
9)	o-Terphenyl	1.798	2.197	1.987	2.584	2.444	2.202	E4	14.60
10)	n-Eicosane	1.881	1.907	1.868	2.219	2.124	2.000	E4	8.03
11)	Chlorooctadecane	1.416	1.739	1.587	2.040	1.727	1.702	E4	13.50
12)	n-Heneicosane	2.001	2.034	2.002	2.276	1.967	2.056	E4	6.10
13)	C16-C21 Aliphatics	3.497	3.330	2.626	2.816	2.548	2.963	E4	14.39
14)	n-Docosane	1.851	1.875	1.832	2.163	1.983	1.941	E4	7.07
15)	n-Tetracosane	1.833	1.859	1.820	2.156	1.982	1.930	E4	7.33
16)	n-Hexacosane	1.833	1.863	1.826	2.181	2.019	1.944	E4	7.91
17)	n-Octacosane	1.846	1.850	1.812	2.178	2.044	1.946	E4	8.13
18)	n-Triacontane	1.826	1.853	1.818	2.203	2.087	1.957	E4	9.02
19)	n-Dotriacontane	1.836	1.859	1.825	2.233	2.113	1.973	E4	9.51
20)	n-Tetratricontane	1.877	1.900	1.867	2.292	2.173	2.022	E4	9.75
21)	n-Hexatriacontane	1.836	1.857	1.829	2.255	2.095	1.974	E4	9.71
22)	n-Octatriacontane	1.839	1.864	1.843	2.265	2.020	1.966	E4	9.30
23)	n-Tetracontane	1.786	1.836	1.821	2.182	1.419	1.809	E4	14.96
24)	C21-C40 Aliphatics	2.496	2.289	1.945	2.376	2.100	2.241	E4	9.80
25)	Total EPH	2.859	2.582	1.981	2.421	2.415	2.452	E4	13.01

(#) = Out of Range

Compound List Report GCFID-3

Method : G:\HPCHEM\GCFID3\METHODS\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Nov 07 08:45:46 2017
Response via : Initial Calibration
Total Cpnds : 25

PK#	Type	Compound Name	Exp RT	Rel RT	Cal	A/H	ID
1		n-Nonane	3.85	1.000	A	A	B
2		n-Decane	5.53	1.000	A	A	B
3		n-Dodecane	8.32	1.000	A	A	B
4		C9-C12 Aliphatics	5.90	1.000	A	A	B
5		n-Tetradecane	10.15	1.000	A	A	B
6		n-Hexadecane	11.59	1.000	A	A	B
7		C12-C16 Aliphatics	10.60	1.000	A	A	B
8		n-Octadecane	12.84	1.000	A	A	B
9		o-Terphenyl	13.54	1.000	A	A	B
10		n-Eicosane	13.95	1.000	A	A	B
11		Chlorooctadecane	14.43	1.000	A	A	B
12		n-Heneicosane	14.47	1.000	A	A	B
13		C16-C21 Aliphatics	12.30	1.000	A	A	B
14		n-Docosane	14.96	1.000	A	A	B
15		n-Tetracosane	15.89	1.000	A	A	B
16		n-Hexacosane	16.76	1.000	A	A	B
17		n-Octacosane	17.56	1.000	A	A	B
18		n-Triacontane	18.36	1.000	A	A	B
19		n-Dotriacontane	19.26	1.000	A	A	B
20		n-Tetratricontane	20.33	1.000	A	A	B
21		n-Hexatriacontane	21.70	1.000	A	A	B
22		n-Octatriacontane	23.51	1.000	A	A	B
23		n-Tetracontane	25.99	1.000	A	A	B
24		C21-C40 Aliphatics	19.60	1.000	A	A	B
25		Total EPH	15.20	1.000	A	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

ALIP1106.M Tue Nov 07 10:35:18 2017 SS

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (Aliph):	S8J1218-CCV1	Init. Calib. Date(s):	11/06/2017
File ID:	E22933.D	Date Analyzed:	10/11/2018 12:11
EPH Category 2		Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Total EPH	12.88	-----	-----	22962	19581	14.70
					Average %D:	14.70

10 10.7.

* - Outside of QC limits

F-VII

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22933.D Vial: 1
Acq On : 11 Oct 2018 12:11 pm Operator: BW
Sample : SEQ-CCV Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 16:21 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	n-Nonane	3.90	1735111	82.091	mg/L	m
2)	n-Decane	5.60	1538775	75.089	mg/L	
3)	n-Dodecane	8.37	1583399	80.754	mg/L	
5)	n-Tetradecane	10.20	1554474	79.645	mg/L	
6)	n-Hexadecane	11.64	1579341	78.366	mg/L	
8)	n-Octadecane	12.88	1627710	80.234	mg/L	
10)	n-Eicosane	13.99	1666390	83.332	mg/L	
12)	n-Heneicosane	14.51f	1816201	88.338	mg/L	
14)	n-Docosane	15.00	1652657	85.163	mg/L	
15)	n-Tetracosane	15.93	1656270	85.813	mg/L	
16)	n-Hexacosane	16.79	1669737	85.874	mg/L	
17)	n-Octacosane	17.59	1659367	85.264	mg/L	
18)	n-Triacontane	18.41	1657746	84.696	mg/L	
19)	n-Dotriacontane	19.31	1649178	83.572	mg/L	
20)	n-Tetratricontane	20.40	1652674	81.743	mg/L	
21)	n-Hexatriacontane	21.79	1542321	78.123	mg/L	
22)	n-Octatriacontane	23.64	1405688	71.496	mg/L	
23)	n-Tetracontane	26.16f	1161287	64.208	mg/L	
25)	Total EPH	12.88	35245779	1437.583	mg/L	m

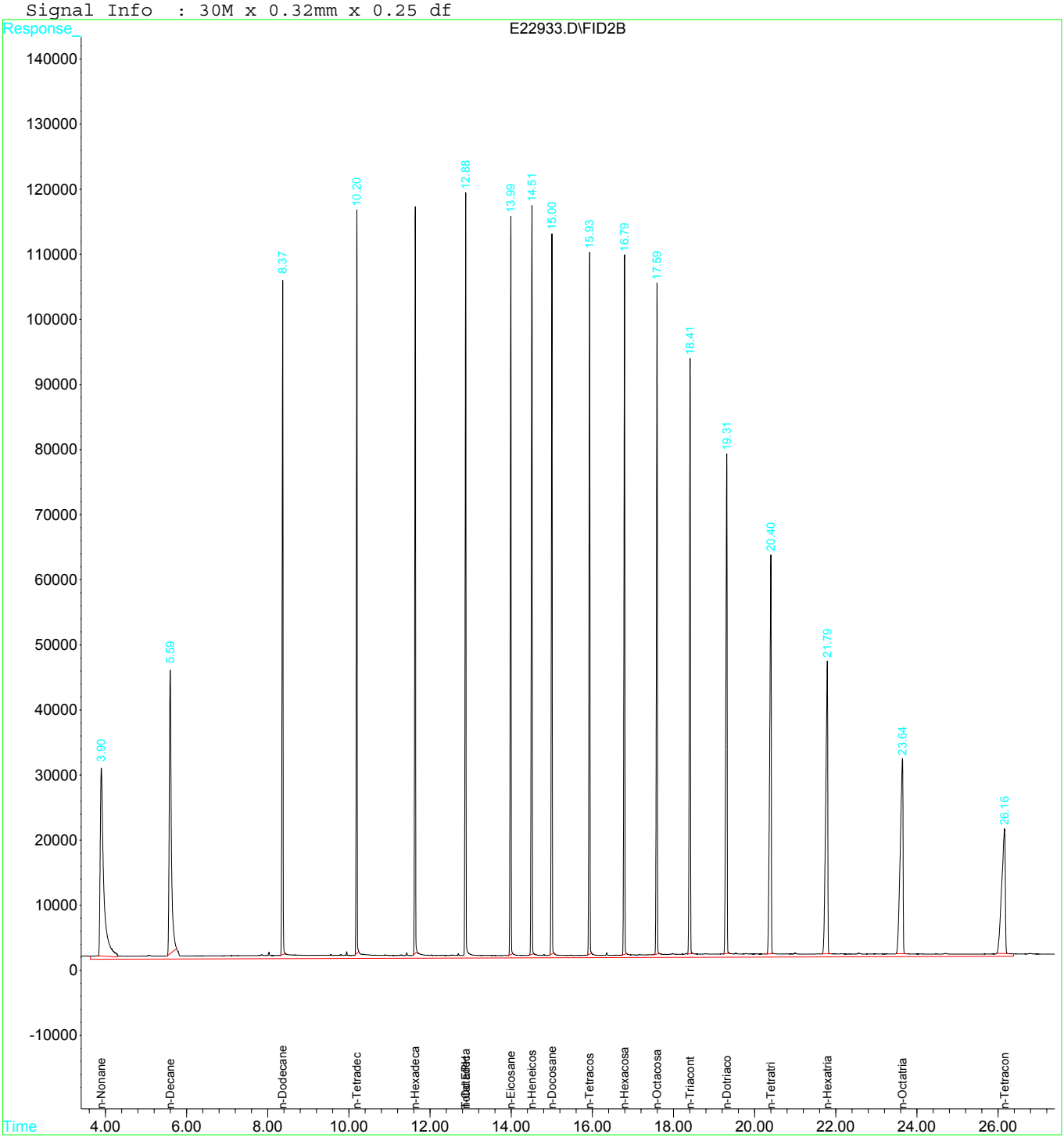
(f)=RT Delta > 1/2 Window (m)=manual int.
E22933.D ALIP1106.M Fri Oct 12 16:06:21 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22933.D Vial: 1
Acq On : 11 Oct 2018 12:11 pm Operator: BW
Sample : SEQ-CCV Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 16:21 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



E22933.D ALIP1106.M Fri Oct 12 16:06:22 2018 SS Page 2

MERCURY

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

Mercury

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452

Total Metals - Soil (SW 846 7471B)

Lab Number	Analyte	Extract	Concentration	Units	RL	DF	Analyst	Analyzed
B8J1110-BLK1	Mercury	0.6 g / 50 mL	ND	mg/kg wet	0.0416	1	AS	10/11/2018 12:01
S8J1108-CCB1	Mercury	N/A	ND	ug/L	0.499	1	AS	10/11/2018 12:36
S8J1108-CCB2	Mercury	N/A	ND	ug/L	0.499	1	AS	10/11/2018 13:18
S8J1108-ICB1	Mercury	N/A	ND	ug/L	0.499	1	AS	10/11/2018 11:55

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Mercury

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452

Total Metals - Soil (SW 846 7471B)

Lab Number	Analyte	Extract	Concentration	Units	RL	DF	Analyst	Analyzed
8100452-01	Mercury	0.51 / 50	ND	mg/kg dry	0.0544	1	AS	10/11/18 12:17
8100452-02	Mercury	0.58 / 50	ND	mg/kg dry	0.0465	1	AS	10/11/18 12:20
8100452-03	Mercury	0.53 / 50	ND	mg/kg dry	0.0510	1	AS	10/11/18 12:24
8100452-04	Mercury	0.55 / 50	ND	mg/kg dry	0.0497	1	AS	10/11/18 12:27
8100452-05	Mercury	0.54 / 50	ND	mg/kg dry	0.0502	1	AS	10/11/18 12:40
8100452-06	Mercury	0.56 / 50	ND	mg/kg dry	0.0508	1	AS	10/11/18 12:04
8100452-07	Mercury	0.57 / 50	ND	mg/kg dry	0.0479	1	AS	10/11/18 12:43
8100452-08	Mercury	0.61 / 50	ND	mg/kg dry	0.0457	1	AS	10/11/18 12:46
8100452-09	Mercury	0.53 / 50	ND	mg/kg dry	0.0514	1	AS	10/11/18 12:49
8100452-10	Mercury	0.57 / 50	0.0562	mg/kg dry	0.0478	1	AS	10/11/18 12:53
8100452-11	Mercury	0.51 / 50	ND	mg/kg dry	0.0540	1	AS	10/11/18 12:56
8100452-12	Mercury	0.55 / 50	ND	mg/kg dry	0.0495	1	AS	10/11/18 12:59
8100452-13	Mercury	0.52 / 50	ND	mg/kg dry	0.0518	1	AS	10/11/18 13:02
8100452-14	Mercury	0.58 / 50	ND	mg/kg dry	0.0463	1	AS	10/11/18 13:05

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

Batch B8J1110 **Method: SW 846 7471B** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1110-BS1		Mercury	0.833	mg/kg wet	0.833		100	80-120		

Batch B8J1110 (cont.) **Method: SW 846 7471B** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1110-DUP1	8100452-06	Mercury	ND	mg/kg dry		ND				20

Batch B8J1110 (cont.) **Method: SW 846 7471B** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1110-MS1	8100452-06	Mercury	1.06	mg/kg dry	1.02	ND	104	80-120		

Batch B8J1110 (cont.) **Method: SW 846 7471B** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1110-MSD1	8100452-06	Mercury	1.07	mg/kg dry	1.02	ND	105	80-120	0.819	20

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

METHOD BLANK SUMMARY

Batch ID: **B8J1110**

Lab Number	Sample Id	Extraction Date	Analysis Date
B8J1110-BLK1	BLK1	10/11/2018	10/11/2018 12:01
B8J1110-BS1	BS1	10/11/2018	10/11/2018 11:58
B8J1110-DUP1	DUP1	10/11/2018	10/11/2018 12:07
B8J1110-MS1	MS1	10/11/2018	10/11/2018 12:11
B8J1110-MSD1	MSD1	10/11/2018	10/11/2018 12:14
8100452-01	NTP-1A	10/11/2018	10/11/2018 12:17
8100452-02	NTP-2A	10/11/2018	10/11/2018 12:20
8100452-03	NTP-2B	10/11/2018	10/11/2018 12:24
8100452-04	NTP-3B	10/11/2018	10/11/2018 12:27
8100452-05	NTP-4B	10/11/2018	10/11/2018 12:40
8100452-06	NTP-6	10/11/2018	10/11/2018 12:04
8100452-07	NTP-7	10/11/2018	10/11/2018 12:43
8100452-08	STP-1B	10/11/2018	10/11/2018 12:46
8100452-09	STP-2B	10/11/2018	10/11/2018 12:49
8100452-10	STP-3B	10/11/2018	10/11/2018 12:53
8100452-11	STP-4A	10/11/2018	10/11/2018 12:56
8100452-12	STP-4B	10/11/2018	10/11/2018 12:59
8100452-13	STP-5	10/11/2018	10/11/2018 13:02
8100452-14	STP-7	10/11/2018	10/11/2018 13:05

ANALYSIS SEQUENCE SUMMARY

Laboratory:	Aqua Pro-Tech Laboratories	Work Order:	8100452
Client:	Peak Environmental	Project:	Ridgewood
Sequence:	S8J1108	Instrument:	Mercury Analyzer

Sample Name	Lab Sample ID	FileID	Analysis Date/Time
Initial Cal Check	S8J1108-ICV1	2018-10-11-A.csv-012	10/11/18 11:51
Initial Cal Blank	S8J1108-ICB1	2018-10-11-A.csv-013	10/11/18 11:55
LCS	B8J1110-BS1	2018-10-11-A.csv-014	10/11/18 11:58
Blank	B8J1110-BLK1	2018-10-11-A.csv-015	10/11/18 12:01
NTP-6	8100452-06	2018-10-11-A.csv-016	10/11/18 12:04
Duplicate	B8J1110-DUP1	2018-10-11-A.csv-017	10/11/18 12:07
Matrix Spike	B8J1110-MS1	2018-10-11-A.csv-018	10/11/18 12:11
Matrix Spike Dup	B8J1110-MSD1	2018-10-11-A.csv-019	10/11/18 12:14
NTP-1A	8100452-01	2018-10-11-A.csv-020	10/11/18 12:17
NTP-2A	8100452-02	2018-10-11-A.csv-021	10/11/18 12:20
NTP-2B	8100452-03	2018-10-11-A.csv-022	10/11/18 12:24
NTP-3B	8100452-04	2018-10-11-A.csv-023	10/11/18 12:27
Calibration Check	S8J1108-CCV1	2018-10-11-A.csv-025	10/11/18 12:33
Calibration Blank	S8J1108-CCB1	2018-10-11-A.csv-026	10/11/18 12:36
NTP-4B	8100452-05	2018-10-11-A.csv-027	10/11/18 12:40
NTP-7	8100452-07	2018-10-11-A.csv-028	10/11/18 12:43
STP-1B	8100452-08	2018-10-11-A.csv-029	10/11/18 12:46
STP-2B	8100452-09	2018-10-11-A.csv-030	10/11/18 12:49
STP-3B	8100452-10	2018-10-11-A.csv-031	10/11/18 12:53
STP-4A	8100452-11	2018-10-11-A.csv-032	10/11/18 12:56
STP-4B	8100452-12	2018-10-11-A.csv-033	10/11/18 12:59
STP-5	8100452-13	2018-10-11-A.csv-034	10/11/18 13:02
STP-7	8100452-14	2018-10-11-A.csv-035	10/11/18 13:05
Calibration Check	S8J1108-CCV2	2018-10-11-A.csv-038	10/11/18 13:15
Calibration Blank	S8J1108-CCB2	2018-10-11-A.csv-039	10/11/18 13:18

SEQUENCE CALIBRATION CHECKS

SW 846 7471B

Client: **Peak Environmental**
Project: **Ridgewood**
Work Order: **8100452**

Sequence: S8J1108
Instrument: Mercury Analyzer

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8J1108-ICV1	Mercury	10.0	10.6	106	ug/L	90-110
S8J1108-CCV1	Mercury	10.0	10.2	102	ug/L	80-120
S8J1108-CCV2	Mercury	10.0	10.3	103	ug/L	80-120

ICV = Initial Cal Verification CCV = Continuing Cal Verification IFB = Interference Check Standard B

METALS

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

Client: Peak Environmental
Client Sample ID: Blank
Lab Sample ID: B8J1105-BLK1
Project: Ridgewood
Work Order: 8100452

Init/Final Vol:	2 g / 50 mL	Prep Date:	10/11/2018 9:33:00AM
Matrix:	Soil	Prep Method:	Hot Block ICP Soil

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/2018 17:57	ND	mg/kg wet	2.50	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/2018 17:57	ND	mg/kg wet	1.25	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/2018 17:57	ND	mg/kg wet	1.25	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/2018 17:57	ND	mg/kg wet	0.500	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/2018 17:57	ND	mg/kg wet	0.0250	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/2018 17:57	ND	mg/kg wet	0.250	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/2018 17:57	ND	mg/kg wet	25.0	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/2018 17:57	ND	mg/kg wet	0.250	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/2018 17:57	ND	mg/kg wet	0.200	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/2018 17:57	ND	mg/kg wet	0.250	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/2018 17:57	ND	mg/kg wet	5.00	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/2018 17:57	ND	mg/kg wet	1.25	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/2018 17:57	ND	mg/kg wet	50.0	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/2018 17:57	ND	mg/kg wet	0.250	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/2018 17:57	ND	mg/kg wet	0.125	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/2018 17:57	ND	mg/kg wet	100	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/2018 17:57	ND	mg/kg wet	1.25	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/2018 17:57	ND	mg/kg wet	0.500	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/2018 17:57	ND	mg/kg wet	50.0	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/2018 17:57	ND	mg/kg wet	1.25	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/2018 17:57	ND	mg/kg wet	0.500	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/2018 17:57	ND	mg/kg wet	0.750	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: Peak Environmental
Client Sample ID: Calibration Blank
Lab Sample ID: S8J1112-CCB1
Project: Ridgewood
Work Order: 8100452

Init/Final Vol:	N/A	Prep Date:	10/11/2018 9:00:57AM
Matrix:	Soil	Prep Method:	

Total Metals - Aqueous (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/2018 14:58	ND	mg/L	0.100	1	MS	S8J1112/S8J1112
7440-36-0	Antimony	10/11/2018 14:58	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-38-2	Arsenic	10/11/2018 14:58	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-39-3	Barium	10/11/2018 14:58	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-41-7	Beryllium	10/11/2018 14:58	ND	mg/L	0.00100	1	MS	S8J1112/S8J1112
7440-43-9	Cadmium	10/11/2018 14:58	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-70-2	Calcium	10/11/2018 14:58	ND	mg/L	1.00	1	MS	S8J1112/S8J1112
7440-47-3	Chromium	10/11/2018 14:58	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-48-4	Cobalt	10/11/2018 14:58	ND	mg/L	0.00800	1	MS	S8J1112/S8J1112
7440-50-8	Copper	10/11/2018 14:58	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7439-89-6	Iron	10/11/2018 14:58	ND	mg/L	0.200	1	MS	S8J1112/S8J1112
7439-92-1	Lead	10/11/2018 14:58	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7439-95-4	Magnesium	10/11/2018 14:58	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7439-96-5	Manganese	10/11/2018 14:58	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-02-0	Nickel	10/11/2018 14:58	ND	mg/L	0.00500	1	MS	S8J1112/S8J1112
7440-09-7	Potassium	10/11/2018 14:58	ND	mg/L	4.00	1	MS	S8J1112/S8J1112
7782-49-2	Selenium	10/11/2018 14:58	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-22-4	Silver	10/11/2018 14:58	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-23-5	Sodium	10/11/2018 14:58	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7440-28-0	Thallium	10/11/2018 14:58	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-62-2	Vanadium	10/11/2018 14:58	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-66-6	Zinc	10/11/2018 14:58	ND	mg/L	0.0300	1	MS	S8J1112/S8J1112

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: Peak Environmental
Client Sample ID: Calibration Blank
Lab Sample ID: S8J1112-CCB2
Project: Ridgewood
Work Order: 8100452

Init/Final Vol:	N/A	Prep Date:	10/11/2018 9:00:57AM
Matrix:	Soil	Prep Method:	

Total Metals - Aqueous (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/2018 15:47	ND	mg/L	0.100	1	MS	S8J1112/S8J1112
7440-36-0	Antimony	10/11/2018 15:47	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-38-2	Arsenic	10/11/2018 15:47	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-39-3	Barium	10/11/2018 15:47	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-41-7	Beryllium	10/11/2018 15:47	ND	mg/L	0.00100	1	MS	S8J1112/S8J1112
7440-43-9	Cadmium	10/11/2018 15:47	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-70-2	Calcium	10/11/2018 15:47	ND	mg/L	1.00	1	MS	S8J1112/S8J1112
7440-47-3	Chromium	10/11/2018 15:47	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-48-4	Cobalt	10/11/2018 15:47	ND	mg/L	0.00800	1	MS	S8J1112/S8J1112
7440-50-8	Copper	10/11/2018 15:47	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7439-89-6	Iron	10/11/2018 15:47	ND	mg/L	0.200	1	MS	S8J1112/S8J1112
7439-92-1	Lead	10/11/2018 15:47	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7439-95-4	Magnesium	10/11/2018 15:47	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7439-96-5	Manganese	10/11/2018 15:47	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-02-0	Nickel	10/11/2018 15:47	ND	mg/L	0.00500	1	MS	S8J1112/S8J1112
7440-09-7	Potassium	10/11/2018 15:47	ND	mg/L	4.00	1	MS	S8J1112/S8J1112
7782-49-2	Selenium	10/11/2018 15:47	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-22-4	Silver	10/11/2018 15:47	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-23-5	Sodium	10/11/2018 15:47	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7440-28-0	Thallium	10/11/2018 15:47	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-62-2	Vanadium	10/11/2018 15:47	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-66-6	Zinc	10/11/2018 15:47	ND	mg/L	0.0300	1	MS	S8J1112/S8J1112

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: Peak Environmental
Client Sample ID: Calibration Blank
Lab Sample ID: S8J1112-CCB3
Project: Ridgewood
Work Order: 8100452

Init/Final Vol:	N/A	Prep Date:	10/11/2018 9:00:57AM
Matrix:	Soil	Prep Method:	

Total Metals - Aqueous (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/2018 16:30	ND	mg/L	0.100	1	MS	S8J1112/S8J1112
7440-36-0	Antimony	10/11/2018 16:30	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-38-2	Arsenic	10/11/2018 16:30	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-39-3	Barium	10/11/2018 16:30	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-41-7	Beryllium	10/11/2018 16:30	ND	mg/L	0.00100	1	MS	S8J1112/S8J1112
7440-43-9	Cadmium	10/11/2018 16:30	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-70-2	Calcium	10/11/2018 16:30	ND	mg/L	1.00	1	MS	S8J1112/S8J1112
7440-47-3	Chromium	10/11/2018 16:30	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-48-4	Cobalt	10/11/2018 16:30	ND	mg/L	0.00800	1	MS	S8J1112/S8J1112
7440-50-8	Copper	10/11/2018 16:30	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7439-89-6	Iron	10/11/2018 16:30	ND	mg/L	0.200	1	MS	S8J1112/S8J1112
7439-92-1	Lead	10/11/2018 16:30	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7439-95-4	Magnesium	10/11/2018 16:30	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7439-96-5	Manganese	10/11/2018 16:30	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-02-0	Nickel	10/11/2018 16:30	ND	mg/L	0.00500	1	MS	S8J1112/S8J1112
7440-09-7	Potassium	10/11/2018 16:30	ND	mg/L	4.00	1	MS	S8J1112/S8J1112
7782-49-2	Selenium	10/11/2018 16:30	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-22-4	Silver	10/11/2018 16:30	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-23-5	Sodium	10/11/2018 16:30	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7440-28-0	Thallium	10/11/2018 16:30	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-62-2	Vanadium	10/11/2018 16:30	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-66-6	Zinc	10/11/2018 16:30	ND	mg/L	0.0300	1	MS	S8J1112/S8J1112

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: Peak Environmental
Client Sample ID: Calibration Blank
Lab Sample ID: S8J1112-CCB4
Project: Ridgewood
Work Order: 8100452

Init/Final Vol:	N/A	Prep Date:	10/11/2018 9:00:57AM
Matrix:	Soil	Prep Method:	

Total Metals - Aqueous (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/2018 18:15	ND	mg/L	0.100	1	MS	S8J1112/S8J1112
7440-36-0	Antimony	10/11/2018 18:15	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-38-2	Arsenic	10/11/2018 18:15	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-39-3	Barium	10/11/2018 18:15	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-41-7	Beryllium	10/11/2018 18:15	ND	mg/L	0.00100	1	MS	S8J1112/S8J1112
7440-43-9	Cadmium	10/11/2018 18:15	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-70-2	Calcium	10/11/2018 18:15	ND	mg/L	1.00	1	MS	S8J1112/S8J1112
7440-47-3	Chromium	10/11/2018 18:15	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-48-4	Cobalt	10/11/2018 18:15	ND	mg/L	0.00800	1	MS	S8J1112/S8J1112
7440-50-8	Copper	10/11/2018 18:15	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7439-89-6	Iron	10/11/2018 18:15	ND	mg/L	0.200	1	MS	S8J1112/S8J1112
7439-92-1	Lead	10/11/2018 18:15	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7439-95-4	Magnesium	10/11/2018 18:15	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7439-96-5	Manganese	10/11/2018 18:15	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-02-0	Nickel	10/11/2018 18:15	ND	mg/L	0.00500	1	MS	S8J1112/S8J1112
7440-09-7	Potassium	10/11/2018 18:15	ND	mg/L	4.00	1	MS	S8J1112/S8J1112
7782-49-2	Selenium	10/11/2018 18:15	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-22-4	Silver	10/11/2018 18:15	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-23-5	Sodium	10/11/2018 18:15	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7440-28-0	Thallium	10/11/2018 18:15	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-62-2	Vanadium	10/11/2018 18:15	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-66-6	Zinc	10/11/2018 18:15	ND	mg/L	0.0300	1	MS	S8J1112/S8J1112

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: Peak Environmental
Client Sample ID: Initial Cal Blank
Lab Sample ID: S8J1112-ICB1
Project: Ridgewood
Work Order: 8100452

Init/Final Vol:	N/A	Prep Date:	10/11/2018 9:00:57AM
Matrix:	Soil	Prep Method:	

Total Metals - Aqueous (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/2018 10:19	ND	mg/L	0.100	1	MS	S8J1112/S8J1112
7440-36-0	Antimony	10/11/2018 10:19	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-38-2	Arsenic	10/11/2018 10:19	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-39-3	Barium	10/11/2018 10:19	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-41-7	Beryllium	10/11/2018 10:19	ND	mg/L	0.00100	1	MS	S8J1112/S8J1112
7440-43-9	Cadmium	10/11/2018 10:19	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-70-2	Calcium	10/11/2018 10:19	ND	mg/L	1.00	1	MS	S8J1112/S8J1112
7440-47-3	Chromium	10/11/2018 10:19	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-48-4	Cobalt	10/11/2018 10:19	ND	mg/L	0.00800	1	MS	S8J1112/S8J1112
7440-50-8	Copper	10/11/2018 10:19	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7439-89-6	Iron	10/11/2018 10:19	ND	mg/L	0.200	1	MS	S8J1112/S8J1112
7439-92-1	Lead	10/11/2018 10:19	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7439-95-4	Magnesium	10/11/2018 10:19	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7439-96-5	Manganese	10/11/2018 10:19	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-02-0	Nickel	10/11/2018 10:19	ND	mg/L	0.00500	1	MS	S8J1112/S8J1112
7440-09-7	Potassium	10/11/2018 10:19	ND	mg/L	4.00	1	MS	S8J1112/S8J1112
7782-49-2	Selenium	10/11/2018 10:19	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-22-4	Silver	10/11/2018 10:19	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-23-5	Sodium	10/11/2018 10:19	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7440-28-0	Thallium	10/11/2018 10:19	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-62-2	Vanadium	10/11/2018 10:19	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-66-6	Zinc	10/11/2018 10:19	ND	mg/L	0.0300	1	MS	S8J1112/S8J1112

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	1.98 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	89.91		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:32	3290	mg/kg dry	2.81	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:32	ND	mg/kg dry	1.40	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:32	ND	mg/kg dry	1.40	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:32	18.6	mg/kg dry	0.562	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:32	0.138	mg/kg dry	0.0281	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:32	ND	mg/kg dry	0.281	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:32	938	mg/kg dry	28.1	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:32	5.14	mg/kg dry	0.281	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:32	2.31	mg/kg dry	0.225	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:32	8.71	mg/kg dry	0.281	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:32	7190	mg/kg dry	5.62	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:32	23.8	mg/kg dry	1.40	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:32	763	mg/kg dry	56.2	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:32	125	mg/kg dry	0.281	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:32	4.33	mg/kg dry	0.140	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:32	212	mg/kg dry	112	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:32	ND	mg/kg dry	1.40	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:32	ND	mg/kg dry	0.562	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:32	107	mg/kg dry	56.2	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:32	ND	mg/kg dry	1.40	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:32	9.94	mg/kg dry	0.562	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:32	22.8	mg/kg dry	0.843	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.06 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	92.54		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:34	3800	mg/kg dry	2.62	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:34	ND	mg/kg dry	1.31	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:34	ND	mg/kg dry	1.31	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:34	21.4	mg/kg dry	0.525	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:34	0.160	mg/kg dry	0.0262	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:34	ND	mg/kg dry	0.262	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:34	1260	mg/kg dry	26.2	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:34	6.19	mg/kg dry	0.262	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:34	2.83	mg/kg dry	0.210	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:34	10.4	mg/kg dry	0.262	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:34	8240	mg/kg dry	5.25	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:34	26.2	mg/kg dry	1.31	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:34	952	mg/kg dry	52.5	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:34	144	mg/kg dry	0.262	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:34	5.14	mg/kg dry	0.131	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:34	251	mg/kg dry	105	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:34	ND	mg/kg dry	1.31	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:34	ND	mg/kg dry	0.525	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:34	116	mg/kg dry	52.5	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:34	ND	mg/kg dry	1.31	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:34	11.2	mg/kg dry	0.525	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:34	30.2	mg/kg dry	0.787	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-2B**
Lab Sample ID: **8100452-03**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.12 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	92.25		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:36	3620	mg/kg dry	2.56	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:36	ND	mg/kg dry	1.28	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:36	ND	mg/kg dry	1.28	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:36	17.9	mg/kg dry	0.511	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:36	0.184	mg/kg dry	0.0256	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:36	ND	mg/kg dry	0.256	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:36	1100	mg/kg dry	25.6	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:36	5.98	mg/kg dry	0.256	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:36	2.49	mg/kg dry	0.205	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:36	9.46	mg/kg dry	0.256	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:36	8490	mg/kg dry	5.11	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:36	19.0	mg/kg dry	1.28	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:36	885	mg/kg dry	51.1	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:36	139	mg/kg dry	0.256	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:36	5.09	mg/kg dry	0.128	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:36	233	mg/kg dry	102	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:36	ND	mg/kg dry	1.28	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:36	ND	mg/kg dry	0.511	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:36	93.8	mg/kg dry	51.1	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:36	ND	mg/kg dry	1.28	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:36	12.0	mg/kg dry	0.511	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:36	24.5	mg/kg dry	0.767	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-3B**
Lab Sample ID: **8100452-04**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.06 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	91.33		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:38	4300	mg/kg dry	2.66	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:38	ND	mg/kg dry	1.33	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:38	ND	mg/kg dry	1.33	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:38	24.3	mg/kg dry	0.532	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:38	0.181	mg/kg dry	0.0266	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:38	ND	mg/kg dry	0.266	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:38	619	mg/kg dry	26.6	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:38	7.12	mg/kg dry	0.266	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:38	3.03	mg/kg dry	0.213	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:38	7.89	mg/kg dry	0.266	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:38	9220	mg/kg dry	5.32	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:38	6.72	mg/kg dry	1.33	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:38	946	mg/kg dry	53.2	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:38	165	mg/kg dry	0.266	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:38	5.13	mg/kg dry	0.133	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:38	252	mg/kg dry	106	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:38	ND	mg/kg dry	1.33	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:38	ND	mg/kg dry	0.532	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:38	136	mg/kg dry	53.2	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:38	ND	mg/kg dry	1.33	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:38	13.4	mg/kg dry	0.532	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:38	20.3	mg/kg dry	0.797	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/11/18 09:33
Init/Final Vol:	1.9 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	92.00		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:40	5500	mg/kg dry	2.86	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:40	ND	mg/kg dry	1.43	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:40	ND	mg/kg dry	1.43	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:40	31.8	mg/kg dry	0.572	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:40	0.203	mg/kg dry	0.0286	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:40	ND	mg/kg dry	0.286	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:40	933	mg/kg dry	28.6	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:40	11.2	mg/kg dry	0.286	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:40	4.83	mg/kg dry	0.229	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:40	9.21	mg/kg dry	0.286	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:40	12100	mg/kg dry	5.72	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:40	5.21	mg/kg dry	1.43	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:40	1750	mg/kg dry	57.2	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:40	229	mg/kg dry	0.286	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:40	7.75	mg/kg dry	0.143	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:40	261	mg/kg dry	114	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:40	ND	mg/kg dry	1.43	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:40	ND	mg/kg dry	0.572	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:40	335	mg/kg dry	57.2	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:40	ND	mg/kg dry	1.43	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:40	18.9	mg/kg dry	0.572	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:40	17.6	mg/kg dry	0.858	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/11/18 09:33
Init/Final Vol:	1.94 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	87.70		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:42	6670	mg/kg dry	2.94	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:42	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:42	1.71	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:42	29.1	mg/kg dry	0.588	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:42	0.282	mg/kg dry	0.0294	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:42	ND	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:42	1140	mg/kg dry	29.4	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:42	9.79	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:42	3.59	mg/kg dry	0.235	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:42	10.1	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:42	12300	mg/kg dry	5.88	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:42	7.82	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:42	1290	mg/kg dry	58.8	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:42	176	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:42	6.47	mg/kg dry	0.147	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:42	361	mg/kg dry	118	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:42	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:42	ND	mg/kg dry	0.588	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:42	132	mg/kg dry	58.8	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:42	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:42	17.4	mg/kg dry	0.588	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:42	20.9	mg/kg dry	0.882	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

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ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.02 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	91.36		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:44	4450	mg/kg dry	2.71	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:44	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:44	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:44	21.4	mg/kg dry	0.542	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:44	0.160	mg/kg dry	0.0271	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:44	ND	mg/kg dry	0.271	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:44	1080	mg/kg dry	27.1	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:44	6.67	mg/kg dry	0.271	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:44	3.01	mg/kg dry	0.217	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:44	8.67	mg/kg dry	0.271	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:44	8450	mg/kg dry	5.42	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:44	11.3	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:44	1090	mg/kg dry	54.2	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:44	145	mg/kg dry	0.271	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:44	5.23	mg/kg dry	0.135	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:44	230	mg/kg dry	108	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:44	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:44	ND	mg/kg dry	0.542	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:44	160	mg/kg dry	54.2	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:44	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:44	12.8	mg/kg dry	0.542	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:44	21.1	mg/kg dry	0.813	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.08 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	89.59		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:46	5040	mg/kg dry	2.68	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:46	ND	mg/kg dry	1.34	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:46	ND	mg/kg dry	1.34	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:46	20.2	mg/kg dry	0.537	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:46	0.191	mg/kg dry	0.0268	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:46	ND	mg/kg dry	0.268	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:46	453	mg/kg dry	26.8	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:46	7.08	mg/kg dry	0.268	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:46	3.03	mg/kg dry	0.215	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:46	7.22	mg/kg dry	0.268	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:46	9500	mg/kg dry	5.37	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:46	4.88	mg/kg dry	1.34	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:46	966	mg/kg dry	53.7	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:46	144	mg/kg dry	0.268	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:46	5.18	mg/kg dry	0.134	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:46	260	mg/kg dry	107	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:46	ND	mg/kg dry	1.34	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:46	ND	mg/kg dry	0.537	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:46	72.2	mg/kg dry	53.7	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:46	ND	mg/kg dry	1.34	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:46	13.0	mg/kg dry	0.537	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:46	23.5	mg/kg dry	0.805	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-2B**
Lab Sample ID: **8100452-09**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:30	Prep Date:	10/11/18 09:33
Init/Final Vol:	1.86 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	91.55		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:48	5700	mg/kg dry	2.94	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:48	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:48	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:48	23.4	mg/kg dry	0.587	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:48	0.223	mg/kg dry	0.0294	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:48	ND	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:48	473	mg/kg dry	29.4	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:48	7.63	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:48	3.23	mg/kg dry	0.235	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:48	8.57	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:48	11100	mg/kg dry	5.87	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:48	6.05	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:48	1070	mg/kg dry	58.7	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:48	187	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:48	5.76	mg/kg dry	0.147	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:48	271	mg/kg dry	117	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:48	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:48	ND	mg/kg dry	0.587	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:48	74.3	mg/kg dry	58.7	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:48	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:48	13.9	mg/kg dry	0.587	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:48	38.2	mg/kg dry	0.881	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-3B**
Lab Sample ID: **8100452-10**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:40	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.11 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	91.53		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:50	4900	mg/kg dry	2.59	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:50	ND	mg/kg dry	1.29	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:50	1.65	mg/kg dry	1.29	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:50	19.4	mg/kg dry	0.518	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:50	0.184	mg/kg dry	0.0259	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:50	ND	mg/kg dry	0.259	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:50	463	mg/kg dry	25.9	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:50	6.68	mg/kg dry	0.259	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:50	2.90	mg/kg dry	0.207	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:50	7.66	mg/kg dry	0.259	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:50	9550	mg/kg dry	5.18	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:50	6.01	mg/kg dry	1.29	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:50	977	mg/kg dry	51.8	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:50	163	mg/kg dry	0.259	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:50	5.18	mg/kg dry	0.129	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:50	272	mg/kg dry	104	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:50	ND	mg/kg dry	1.29	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:50	ND	mg/kg dry	0.518	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:50	74.0	mg/kg dry	51.8	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:50	ND	mg/kg dry	1.29	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:50	12.7	mg/kg dry	0.518	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:50	21.0	mg/kg dry	0.777	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	1.95 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	90.63		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 15:31	6100	mg/kg dry	2.83	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 15:31	ND	mg/kg dry	1.41	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 15:31	ND	mg/kg dry	1.41	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 15:31	23.3	mg/kg dry	0.566	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 15:31	0.215	mg/kg dry	0.0283	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 15:31	ND	mg/kg dry	0.283	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 15:31	634	mg/kg dry	28.3	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 15:31	8.26	mg/kg dry	0.283	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 15:31	3.51	mg/kg dry	0.226	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 15:31	9.17	mg/kg dry	0.283	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 15:31	10900	mg/kg dry	5.66	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 15:31	10.6	mg/kg dry	1.41	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 15:31	1110	mg/kg dry	56.6	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 15:31	209	mg/kg dry	0.283	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 15:31	6.25	mg/kg dry	0.141	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 15:31	286	mg/kg dry	113	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 15:31	ND	mg/kg dry	1.41	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 15:31	ND	mg/kg dry	0.566	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 15:31	85.2	mg/kg dry	56.6	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 15:31	ND	mg/kg dry	1.41	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 15:31	15.4	mg/kg dry	0.566	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 15:31	20.4	mg/kg dry	0.849	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.02 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	91.70		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 15:33	5610	mg/kg dry	2.70	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 15:33	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 15:33	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 15:33	24.9	mg/kg dry	0.540	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 15:33	0.211	mg/kg dry	0.0270	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 15:33	ND	mg/kg dry	0.270	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 15:33	899	mg/kg dry	27.0	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 15:33	7.75	mg/kg dry	0.270	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 15:33	3.46	mg/kg dry	0.216	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 15:33	8.07	mg/kg dry	0.270	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 15:33	10600	mg/kg dry	5.40	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 15:33	8.26	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 15:33	1220	mg/kg dry	54.0	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 15:33	261	mg/kg dry	0.270	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 15:33	6.18	mg/kg dry	0.135	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 15:33	283	mg/kg dry	108	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 15:33	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 15:33	ND	mg/kg dry	0.540	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 15:33	82.6	mg/kg dry	54.0	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 15:33	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 15:33	14.7	mg/kg dry	0.540	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 15:33	23.2	mg/kg dry	0.810	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-5**
Lab Sample ID: **8100452-13**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	1.88 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	92.63		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 15:37	6860	mg/kg dry	2.87	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 15:37	ND	mg/kg dry	1.44	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 15:37	3.01	mg/kg dry	1.44	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 15:37	23.0	mg/kg dry	0.574	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 15:37	0.256	mg/kg dry	0.0287	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 15:37	ND	mg/kg dry	0.287	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 15:37	310	mg/kg dry	28.7	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 15:37	8.30	mg/kg dry	0.287	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 15:37	4.74	mg/kg dry	0.230	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 15:37	9.68	mg/kg dry	0.287	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 15:37	15100	mg/kg dry	5.74	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 15:37	5.25	mg/kg dry	1.44	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 15:37	1150	mg/kg dry	57.4	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 15:37	333	mg/kg dry	0.287	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 15:37	7.29	mg/kg dry	0.144	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 15:37	241	mg/kg dry	115	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 15:37	ND	mg/kg dry	1.44	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 15:37	ND	mg/kg dry	0.574	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 15:37	ND	mg/kg dry	57.4	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 15:37	ND	mg/kg dry	1.44	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 15:37	17.3	mg/kg dry	0.574	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 15:37	39.9	mg/kg dry	0.861	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.12 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	92.94		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 15:39	4650	mg/kg dry	2.54	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 15:39	ND	mg/kg dry	1.27	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 15:39	1.49	mg/kg dry	1.27	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 15:39	18.5	mg/kg dry	0.508	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 15:39	0.178	mg/kg dry	0.0254	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 15:39	ND	mg/kg dry	0.254	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 15:39	294	mg/kg dry	25.4	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 15:39	6.14	mg/kg dry	0.254	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 15:39	2.97	mg/kg dry	0.203	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 15:39	6.73	mg/kg dry	0.254	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 15:39	9110	mg/kg dry	5.08	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 15:39	4.31	mg/kg dry	1.27	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 15:39	910	mg/kg dry	50.8	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 15:39	240	mg/kg dry	0.254	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 15:39	5.05	mg/kg dry	0.127	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 15:39	210	mg/kg dry	102	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 15:39	ND	mg/kg dry	1.27	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 15:39	ND	mg/kg dry	0.508	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 15:39	52.0	mg/kg dry	50.8	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 15:39	ND	mg/kg dry	1.27	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 15:39	11.8	mg/kg dry	0.508	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 15:39	24.1	mg/kg dry	0.761	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

Total Metals - Quality Control

Aqua Pro-Tech Laboratories

Batch B8J1105 **Method: SW 846 6010D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1105-BS1		Aluminum	4590	mg/kg wet	5000		91.7	80-120		
B8J1105-BS1		Antimony	11.2	mg/kg wet	12.5		90.0	80-120		
B8J1105-BS1		Arsenic	11.2	mg/kg wet	12.5		89.6	80-120		
B8J1105-BS1		Barium	11.4	mg/kg wet	12.5		91.4	80-120		
B8J1105-BS1		Beryllium	12.2	mg/kg wet	12.5		97.2	80-120		
B8J1105-BS1		Cadmium	11.6	mg/kg wet	12.5		92.4	80-120		
B8J1105-BS1		Calcium	2980	mg/kg wet	3120		95.2	80-120		
B8J1105-BS1		Chromium	11.5	mg/kg wet	12.5		92.0	80-120		
B8J1105-BS1		Cobalt	11.0	mg/kg wet	12.5		88.0	80-120		
B8J1105-BS1		Copper	12.3	mg/kg wet	12.5		98.6	80-120		
B8J1105-BS1		Iron	6650	mg/kg wet	7500		88.7	80-120		
B8J1105-BS1		Lead	11.0	mg/kg wet	12.5		88.0	80-120		
B8J1105-BS1		Magnesium	2910	mg/kg wet	3120		93.0	80-120		
B8J1105-BS1		Manganese	11.4	mg/kg wet	12.5		90.8	80-120		
B8J1105-BS1		Nickel	11.0	mg/kg wet	12.5		87.6	80-120		
B8J1105-BS1		Potassium	2950	mg/kg wet	3120		94.4	80-120		
B8J1105-BS1		Selenium	10.9	mg/kg wet	12.5		87.4	80-120		
B8J1105-BS1		Silver	10.6	mg/kg wet	12.5		84.6	80-120		
B8J1105-BS1		Sodium	2920	mg/kg wet	3120		93.6	80-120		
B8J1105-BS1		Thallium	11.2	mg/kg wet	12.5		89.8	80-120		
B8J1105-BS1		Vanadium	11.8	mg/kg wet	12.5		94.8	80-120		
B8J1105-BS1		Zinc	10.7	mg/kg wet	12.5		85.8	80-120		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1105 (cont.) **Method: SW 846 6010D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1105-DUP1	8100452-13	Aluminum	5880	mg/kg dry		6860			15.4	20
B8J1105-DUP1	8100452-13	Antimony	ND	mg/kg dry		ND				20
B8J1105-DUP1	8100452-13	Arsenic	3.16	mg/kg dry		3.01			4.65	20
B8J1105-DUP1	8100452-13	Barium	20.0	mg/kg dry		23.0			13.8	20
B8J1105-DUP1	8100452-13	Beryllium	0.224	mg/kg dry		0.256			13.2	20
B8J1105-DUP1	8100452-13	Cadmium	ND	mg/kg dry		ND				20
B8J1105-DUP1	8100452-13	Calcium	141	mg/kg dry		310			75.2*	20
B8J1105-DUP1	8100452-13	Chromium	7.41	mg/kg dry		8.30			11.3	20
B8J1105-DUP1	8100452-13	Cobalt	4.39	mg/kg dry		4.74			7.55	20
B8J1105-DUP1	8100452-13	Copper	8.30	mg/kg dry		9.68			15.3	20
B8J1105-DUP1	8100452-13	Iron	13800	mg/kg dry		15100			8.54	20
B8J1105-DUP1	8100452-13	Lead	3.90	mg/kg dry		5.25			29.5*	20
B8J1105-DUP1	8100452-13	Magnesium	904	mg/kg dry		1150			23.6*	20
B8J1105-DUP1	8100452-13	Manganese	322	mg/kg dry		333			3.51	20
B8J1105-DUP1	8100452-13	Nickel	6.69	mg/kg dry		7.29			8.62	20
B8J1105-DUP1	8100452-13	Potassium	196	mg/kg dry		241			20.4*	20
B8J1105-DUP1	8100452-13	Selenium	ND	mg/kg dry		ND				20
B8J1105-DUP1	8100452-13	Silver	ND	mg/kg dry		ND				20
B8J1105-DUP1	8100452-13	Sodium	ND	mg/kg dry		ND				20
B8J1105-DUP1	8100452-13	Thallium	ND	mg/kg dry		ND				20
B8J1105-DUP1	8100452-13	Vanadium	15.0	mg/kg dry		17.3			13.7	20
B8J1105-DUP1	8100452-13	Zinc	35.3	mg/kg dry		39.9			12.2	20

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1105 (cont.) **Method: SW 846 6010D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1105-MS1	8100452-13	Aluminum	11700	mg/kg dry	5740	6860	84.7	75-125		
B8J1105-MS1	8100452-13	Antimony	10.4	mg/kg dry	14.4	ND	72.2*	75-125		
B8J1105-MS1	8100452-13	Arsenic	14.3	mg/kg dry	14.4	3.01	78.8	75-125		
B8J1105-MS1	8100452-13	Barium	32.7	mg/kg dry	14.4	23.0	68.0*	75-125		
B8J1105-MS1	8100452-13	Beryllium	12.1	mg/kg dry	14.4	0.256	82.4	75-125		
B8J1105-MS1	8100452-13	Cadmium	11.0	mg/kg dry	14.4	ND	76.8	75-125		
B8J1105-MS1	8100452-13	Calcium	3010	mg/kg dry	3590	310	75.4	75-125		
B8J1105-MS1	8100452-13	Chromium	19.1	mg/kg dry	14.4	8.30	75.2	75-125		
B8J1105-MS1	8100452-13	Cobalt	15.4	mg/kg dry	14.4	4.74	74.0*	75-125		
B8J1105-MS1	8100452-13	Copper	22.0	mg/kg dry	14.4	9.68	86.2	75-125		
B8J1105-MS1	8100452-13	Iron	21700	mg/kg dry	8610	15100	77.0	75-125		
B8J1105-MS1	8100452-13	Lead	14.2	mg/kg dry	14.4	5.25	62.4*	75-125		
B8J1105-MS1	8100452-13	Magnesium	3920	mg/kg dry	3590	1150	77.2	75-125		
B8J1105-MS1	8100452-13	Manganese	362	mg/kg dry	14.4	333	200(NC)	75-125		
B8J1105-MS1	8100452-13	Nickel	17.6	mg/kg dry	14.4	7.29	72.0*	75-125		
B8J1105-MS1	8100452-13	Potassium	3070	mg/kg dry	3590	241	78.9	75-125		
B8J1105-MS1	8100452-13	Selenium	10.3	mg/kg dry	14.4	ND	72.0*	75-125		
B8J1105-MS1	8100452-13	Silver	10.3	mg/kg dry	14.4	ND	72.0*	75-125		
B8J1105-MS1	8100452-13	Sodium	2930	mg/kg dry	3590	53.4 J	80.1	75-125		
B8J1105-MS1	8100452-13	Thallium	10.8	mg/kg dry	14.4	0.307 J	73.3*	75-125		
B8J1105-MS1	8100452-13	Vanadium	29.0	mg/kg dry	14.4	17.3	81.8	75-125		
B8J1105-MS1	8100452-13	Zinc	49.7	mg/kg dry	14.4	39.9	68.0*	75-125		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1105 (cont.) **Method: SW 846 6010D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1105-MSD1	8100452-13	Aluminum	12100	mg/kg dry	5740	6860	91.8	75-125	3.42	20
B8J1105-MSD1	8100452-13	Antimony	12.0	mg/kg dry	14.4	ND	83.6	75-125	14.6	20
B8J1105-MSD1	8100452-13	Arsenic	15.6	mg/kg dry	14.4	3.01	87.6	75-125	8.45	20
B8J1105-MSD1	8100452-13	Barium	33.6	mg/kg dry	14.4	23.0	74.0*	75-125	2.60	20
B8J1105-MSD1	8100452-13	Beryllium	13.8	mg/kg dry	14.4	0.256	94.4	75-125	13.3	20
B8J1105-MSD1	8100452-13	Cadmium	12.7	mg/kg dry	14.4	ND	88.4	75-125	14.0	20
B8J1105-MSD1	8100452-13	Calcium	3420	mg/kg dry	3590	310	86.6	75-125	12.5	20
B8J1105-MSD1	8100452-13	Chromium	20.5	mg/kg dry	14.4	8.30	84.8	75-125	6.97	20
B8J1105-MSD1	8100452-13	Cobalt	16.8	mg/kg dry	14.4	4.74	83.8	75-125	8.76	20
B8J1105-MSD1	8100452-13	Copper	23.5	mg/kg dry	14.4	9.68	96.2	75-125	6.31	20
B8J1105-MSD1	8100452-13	Iron	21900	mg/kg dry	8610	15100	79.3	75-125	0.922	20
B8J1105-MSD1	8100452-13	Lead	16.1	mg/kg dry	14.4	5.25	75.4	75-125	12.3	20
B8J1105-MSD1	8100452-13	Magnesium	4240	mg/kg dry	3590	1150	86.3	75-125	7.99	20
B8J1105-MSD1	8100452-13	Manganese	359	mg/kg dry	14.4	333	180(NC)	75-125	0.797	20
B8J1105-MSD1	8100452-13	Nickel	19.1	mg/kg dry	14.4	7.29	82.0	75-125	7.82	20
B8J1105-MSD1	8100452-13	Potassium	3500	mg/kg dry	3590	241	90.9	75-125	13.1	20
B8J1105-MSD1	8100452-13	Selenium	11.8	mg/kg dry	14.4	ND	82.2	75-125	13.2	20
B8J1105-MSD1	8100452-13	Silver	11.7	mg/kg dry	14.4	ND	81.2	75-125	12.0	20
B8J1105-MSD1	8100452-13	Sodium	3330	mg/kg dry	3590	53.4 J	91.3	75-125	12.8	20
B8J1105-MSD1	8100452-13	Thallium	12.3	mg/kg dry	14.4	0.307 J	83.9	75-125	13.1	20
B8J1105-MSD1	8100452-13	Vanadium	29.3	mg/kg dry	14.4	17.3	83.8	75-125	0.985	20
B8J1105-MSD1	8100452-13	Zinc	50.2	mg/kg dry	14.4	39.9	72.0*	75-125	1.15	20

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL
NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1105 (cont.) **Method: SW 846 6010D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1105-PS1	8100452-13	Aluminum	428	mg/L	200	239	94.5	75-125		
B8J1105-PS1	8100452-13	Antimony	0.480	mg/L	0.500	ND	96.0	75-125		
B8J1105-PS1	8100452-13	Arsenic	0.607	mg/L	0.500	0.105 J	100	75-125		
B8J1105-PS1	8100452-13	Barium	1.19	mg/L	0.500	0.800	78.0	75-125		
B8J1105-PS1	8100452-13	Beryllium	0.529	mg/L	0.500	0.00890 J	104	75-125		
B8J1105-PS1	8100452-13	Cadmium	0.503	mg/L	0.500	ND	101	75-125		
B8J1105-PS1	8100452-13	Calcium	132	mg/L	125	10.8 J	97.0	75-125		
B8J1105-PS1	8100452-13	Chromium	0.751	mg/L	0.500	0.289	92.4	75-125		
B8J1105-PS1	8100452-13	Cobalt	0.627	mg/L	0.500	0.165 J	92.4	75-125		
B8J1105-PS1	8100452-13	Copper	0.868	mg/L	0.500	0.337	106	75-125		
B8J1105-PS1	8100452-13	Iron	756	mg/L	300	525	77.0	75-125		
B8J1105-PS1	8100452-13	Lead	0.589	mg/L	0.500	0.183 J	81.2	75-125		
B8J1105-PS1	8100452-13	Magnesium	161	mg/L	125	39.9 J	96.6	75-125		
B8J1105-PS1	8100452-13	Manganese	11.2	mg/L	0.500	11.6	-80.0(NC)	75-125		
B8J1105-PS1	8100452-13	Nickel	0.693	mg/L	0.500	0.254	87.8	75-125		
B8J1105-PS1	8100452-13	Potassium	137	mg/L	125	8.38 J	103	75-125		
B8J1105-PS1	8100452-13	Selenium	0.477	mg/L	0.500	ND	95.4	75-125		
B8J1105-PS1	8100452-13	Silver	0.392	mg/L	0.500	ND	78.4	75-125		
B8J1105-PS1	8100452-13	Sodium	128	mg/L	125	1.86 J	101	75-125		
B8J1105-PS1	8100452-13	Thallium	0.473	mg/L	0.500	0.0107 J	92.5	75-125		
B8J1105-PS1	8100452-13	Vanadium	1.06	mg/L	0.500	0.601	91.8	75-125		
B8J1105-PS1	8100452-13	Zinc	1.75	mg/L	0.500	1.39	72.0*	75-125		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Total Metals - Quality Control

Aqua Pro-Tech Laboratories

Sequence S8J1112 **Method: SW 846 6010D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
S8J1112-SRD1	8100452-13	Aluminum	6940	mg/kg dry		6860			1.21	10
S8J1112-SRD1	8100452-13	Antimony	ND	mg/kg dry		ND				10
S8J1112-SRD1	8100452-13	Arsenic	ND	mg/kg dry		3.01				10
S8J1112-SRD1	8100452-13	Barium	25.3	mg/kg dry		23.0			9.52	10
S8J1112-SRD1	8100452-13	Beryllium	0.258	mg/kg dry		0.256			1.12	10
S8J1112-SRD1	8100452-13	Cadmium	ND	mg/kg dry		ND				10
S8J1112-SRD1	8100452-13	Calcium	324	mg/kg dry		310			4.52	10
S8J1112-SRD1	8100452-13	Chromium	8.96	mg/kg dry		8.30			7.65	10
S8J1112-SRD1	8100452-13	Cobalt	5.12	mg/kg dry		4.74			7.86	10
S8J1112-SRD1	8100452-13	Copper	9.99	mg/kg dry		9.68			3.21	10
S8J1112-SRD1	8100452-13	Iron	15900	mg/kg dry		15100			5.56	10
S8J1112-SRD1	8100452-13	Lead	ND	mg/kg dry		5.25				10
S8J1112-SRD1	8100452-13	Magnesium	1270	mg/kg dry		1150			10.1*	10
S8J1112-SRD1	8100452-13	Manganese	375	mg/kg dry		333			11.8*	10
S8J1112-SRD1	8100452-13	Nickel	8.10	mg/kg dry		7.29			10.4*	10
S8J1112-SRD1	8100452-13	Potassium	ND	mg/kg dry		241				10
S8J1112-SRD1	8100452-13	Selenium	ND	mg/kg dry		ND				10
S8J1112-SRD1	8100452-13	Silver	ND	mg/kg dry		ND				10
S8J1112-SRD1	8100452-13	Sodium	ND	mg/kg dry		53.4 J				10
S8J1112-SRD1	8100452-13	Thallium	ND	mg/kg dry		0.307 J				10
S8J1112-SRD1	8100452-13	Vanadium	18.4	mg/kg dry		17.3			6.29	10
S8J1112-SRD1	8100452-13	Zinc	45.2	mg/kg dry		39.9			12.5*	10

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

METHOD BLANK SUMMARY

Batch ID: **B8J1105**

Lab Number	Sample Id	Extraction Date	Analysis Date
B8J1105-BLK1	BLK1	10/11/2018	10/11/2018 17:57
B8J1105-BS1	BS1	10/11/2018	10/11/2018 17:58
B8J1105-DUP1	DUP1	10/11/2018	10/11/2018 18:00
B8J1105-MS1	MS1	10/11/2018	10/11/2018 18:03
B8J1105-MSD1	MSD1	10/11/2018	10/11/2018 18:05
B8J1105-PS1	PS1	10/11/2018	10/11/2018 18:07
8100452-01	NTP-1A	10/11/2018	10/11/2018 14:32
8100452-02	NTP-2A	10/11/2018	10/11/2018 14:34
8100452-03	NTP-2B	10/11/2018	10/11/2018 14:36
8100452-04	NTP-3B	10/11/2018	10/11/2018 14:38
8100452-05	NTP-4B	10/11/2018	10/11/2018 14:40
8100452-06	NTP-6	10/11/2018	10/11/2018 14:42
8100452-07	NTP-7	10/11/2018	10/11/2018 14:44
8100452-08	STP-1B	10/11/2018	10/11/2018 14:46
8100452-09	STP-2B	10/11/2018	10/11/2018 14:48
8100452-10	STP-3B	10/11/2018	10/11/2018 14:50
8100452-11	STP-4A	10/11/2018	10/11/2018 15:31
8100452-12	STP-4B	10/11/2018	10/11/2018 15:33
8100452-13	STP-5	10/11/2018	10/11/2018 15:37
8100452-14	STP-7	10/11/2018	10/11/2018 15:39

ANALYSIS SEQUENCE SUMMARY

Laboratory:	Aqua Pro-Tech Laboratories	Work Order:	8100452
Client:	Peak Environmental	Project:	Ridgewood
Sequence:	S8J1112	Instrument:	ICP OES-1

Sample Name	Lab Sample ID	FileID	Analysis Date/Time
Initial Cal Check	S8J1112-ICV1	APL1_METHOD_IEC_2018-10-	10/11/18 10:15
Initial Cal Blank	S8J1112-ICB1	APL1_METHOD_IEC_2018-10-	10/11/18 10:19
Interference Check A	S8J1112-IFA1	APL1_METHOD_IEC_2018-10-	10/11/18 10:20
Interference Check B	S8J1112-IFB1	APL1_METHOD_IEC_2018-10-	10/11/18 10:22
NTP-1A	8100452-01	APL1_METHOD_IEC_2018-10-	10/11/18 14:32
NTP-2A	8100452-02	APL1_METHOD_IEC_2018-10-	10/11/18 14:34
NTP-2B	8100452-03	APL1_METHOD_IEC_2018-10-	10/11/18 14:36
NTP-3B	8100452-04	APL1_METHOD_IEC_2018-10-	10/11/18 14:38
NTP-4B	8100452-05	APL1_METHOD_IEC_2018-10-	10/11/18 14:40
NTP-6	8100452-06	APL1_METHOD_IEC_2018-10-	10/11/18 14:42
NTP-7	8100452-07	APL1_METHOD_IEC_2018-10-	10/11/18 14:44
STP-1B	8100452-08	APL1_METHOD_IEC_2018-10-	10/11/18 14:46
STP-2B	8100452-09	APL1_METHOD_IEC_2018-10-	10/11/18 14:48
STP-3B	8100452-10	APL1_METHOD_IEC_2018-10-	10/11/18 14:50
Calibration Check	S8J1112-CCV1	APL1_METHOD_IEC_2018-10-	10/11/18 14:54
Calibration Check	S8J1112-CCV2	APL1_METHOD_IEC_2018-10-	10/11/18 14:56
Calibration Blank	S8J1112-CCB1	APL1_METHOD_IEC_2018-10-	10/11/18 14:58
STP-4A	8100452-11	APL1_METHOD_IEC_2018-10-	10/11/18 15:31
STP-4B	8100452-12	APL1_METHOD_IEC_2018-10-	10/11/18 15:33
Serial Dilution	S8J1112-SRD1	APL1_METHOD_IEC_2018-10-	10/11/18 15:35
STP-5	8100452-13	APL1_METHOD_IEC_2018-10-	10/11/18 15:37
STP-7	8100452-14	APL1_METHOD_IEC_2018-10-	10/11/18 15:39
Calibration Check	S8J1112-CCV3	APL1_METHOD_IEC_2018-10-	10/11/18 15:43
Calibration Check	S8J1112-CCV4	APL1_METHOD_IEC_2018-10-	10/11/18 15:45
Calibration Blank	S8J1112-CCB2	APL1_METHOD_IEC_2018-10-	10/11/18 15:47
Calibration Check	S8J1112-CCV5	APL1_METHOD_IEC_2018-10-	10/11/18 16:27
Calibration Check	S8J1112-CCV6	APL1_METHOD_IEC_2018-10-	10/11/18 16:28
Calibration Blank	S8J1112-CCB3	APL1_METHOD_IEC_2018-10-	10/11/18 16:30
Blank	B8J1105-BLK1	APL1_METHOD_IEC_2018-10-	10/11/18 17:57
LCS	B8J1105-BS1	APL1_METHOD_IEC_2018-10-	10/11/18 17:58
Duplicate	B8J1105-DUP1	APL1_METHOD_IEC_2018-10-	10/11/18 18:00
Matrix Spike	B8J1105-MS1	APL1_METHOD_IEC_2018-10-	10/11/18 18:03
Matrix Spike Dup	B8J1105-MSD1	APL1_METHOD_IEC_2018-10-	10/11/18 18:05

F-V

ANALYSIS SEQUENCE SUMMARY

Laboratory:	Aqua Pro-Tech Laboratories	Work Order:	8100452
Client:	Peak Environmental	Project:	Ridgewood
Sequence:	S8J1112	Instrument:	ICP OES-1

Sample Name	Lab Sample ID	FileID	Analysis Date/Time
Post Spike	B8J1105-PS1	APL1_METHOD_IEC_2018-10-	10/11/18 18:07
Calibration Check	S8J1112-CCV7	APL1_METHOD_IEC_2018-10-	10/11/18 18:11
Calibration Check	S8J1112-CCV8	APL1_METHOD_IEC_2018-10-	10/11/18 18:13
Calibration Blank	S8J1112-CCB4	APL1_METHOD_IEC_2018-10-	10/11/18 18:15

F-V

SEQUENCE CALIBRATION CHECKS

SW 846 6010D

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452

Sequence: S8J1112
Instrument: ICP OES-1

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8J1112-ICV1	Antimony	1.00	0.969	96.9	mg/L	90-110
	Arsenic	1.00	0.975	97.5	mg/L	90-110
	Barium	1.00	0.979	97.9	mg/L	90-110
	Beryllium	1.00	0.982	98.2	mg/L	90-110
	Cadmium	1.00	0.977	97.7	mg/L	90-110
	Chromium	1.00	0.975	97.5	mg/L	90-110
	Cobalt	1.00	0.976	97.6	mg/L	90-110
	Copper	1.00	0.976	97.6	mg/L	90-110
	Lead	1.00	0.972	97.2	mg/L	90-110
	Manganese	1.00	0.970	97.0	mg/L	90-110
	Nickel	1.00	0.973	97.3	mg/L	90-110
	Selenium	1.00	0.992	99.2	mg/L	90-110
	Silver	1.00	0.922	92.2	mg/L	90-110
	Thallium	1.00	0.973	97.3	mg/L	90-110
	Vanadium	1.00	0.972	97.2	mg/L	90-110
	Zinc	1.00	0.982	98.2	mg/L	90-110
S8J1112-IFB1	Aluminum	501	515	103	mg/L	80-120
	Antimony	1.00	1.00	100	mg/L	80-120
	Arsenic	1.00	1.01	101	mg/L	80-120
	Barium	1.00	0.969	96.9	mg/L	80-120
	Beryllium	1.00	1.04	104	mg/L	80-120
	Cadmium	1.00	1.02	102	mg/L	80-120
	Calcium	501	494	98.6	mg/L	80-120
	Chromium	1.00	0.960	96.0	mg/L	80-120
	Cobalt	1.00	0.909	90.9	mg/L	80-120
	Copper	1.00	1.07	107	mg/L	80-120
	Iron	201	195	97.0	mg/L	80-120
	Lead	1.00	0.901	90.1	mg/L	80-120
	Magnesium	501	500	99.9	mg/L	80-120
	Manganese	1.00	0.944	94.4	mg/L	80-120
	Nickel	1.00	0.884	88.4	mg/L	80-120
	Selenium	1.00	0.996	99.6	mg/L	80-120
	Silver	1.00	1.00	100	mg/L	80-120
	Thallium	1.00	0.946	94.6	mg/L	80-120
	Vanadium	1.00	0.994	99.4	mg/L	80-120
	Zinc	1.00	0.903	90.3	mg/L	80-120
S8J1112-CCV1	Antimony	1.00	0.968	96.8	mg/L	90-110
	Arsenic	1.00	0.977	97.7	mg/L	90-110
	Barium	1.00	0.984	98.4	mg/L	90-110

ICV = Initial Cal Verification CCV = Continuing Cal Verification IFB = Interference Check Standard B

F-VII

SEQUENCE CALIBRATION CHECKS

SW 846 6010D

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452

Sequence: S8J1112
Instrument: ICP OES-1

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8J1112-CCV1	Beryllium	1.00	1.00	100	mg/L	90-110
	Cadmium	1.00	0.982	98.2	mg/L	90-110
	Chromium	1.00	0.981	98.1	mg/L	90-110
	Cobalt	1.00	0.967	96.7	mg/L	90-110
	Copper	1.00	0.984	98.4	mg/L	90-110
	Lead	1.00	0.971	97.1	mg/L	90-110
	Manganese	1.00	0.976	97.6	mg/L	90-110
	Nickel	1.00	0.974	97.4	mg/L	90-110
	Selenium	1.00	0.994	99.4	mg/L	90-110
	Silver	1.00	0.933	93.3	mg/L	90-110
	Thallium	1.00	0.979	97.9	mg/L	90-110
	Vanadium	1.00	0.973	97.3	mg/L	90-110
	Zinc	1.00	0.960	96.0	mg/L	90-110
S8J1112-CCV2	Aluminum	100	99.4	99.4	mg/L	90-110
	Calcium	100	99.0	99.0	mg/L	90-110
	Iron	40.0	39.5	98.8	mg/L	90-110
	Magnesium	100	98.8	98.8	mg/L	90-110
	Potassium	100	100	100	mg/L	90-110
	Sodium	100	99.1	99.1	mg/L	90-110
S8J1112-CCV3	Antimony	1.00	0.986	98.6	mg/L	90-110
	Arsenic	1.00	0.991	99.1	mg/L	90-110
	Barium	1.00	1.00	100	mg/L	90-110
	Beryllium	1.00	1.02	102	mg/L	90-110
	Cadmium	1.00	1.00	100	mg/L	90-110
	Chromium	1.00	1.00	100	mg/L	90-110
	Cobalt	1.00	0.988	98.8	mg/L	90-110
	Copper	1.00	1.01	101	mg/L	90-110
	Lead	1.00	0.992	99.2	mg/L	90-110
	Manganese	1.00	0.998	99.8	mg/L	90-110
	Nickel	1.00	0.995	99.5	mg/L	90-110
	Selenium	1.00	1.01	101	mg/L	90-110
	Silver	1.00	0.950	95.0	mg/L	90-110
	Thallium	1.00	1.00	100	mg/L	90-110
	Vanadium	1.00	0.995	99.5	mg/L	90-110
	Zinc	1.00	0.978	97.8	mg/L	90-110
S8J1112-CCV4	Aluminum	100	101	101	mg/L	90-110
	Calcium	100	101	101	mg/L	90-110
	Iron	40.0	40.0	100	mg/L	90-110

ICV = Initial Cal Verification CCV = Continuing Cal Verification IFB = Interference Check Standard B

F-VII

SEQUENCE CALIBRATION CHECKS

SW 846 6010D

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452

Sequence: S8J1112
Instrument: ICP OES-1

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8J1112-CCV4	Magnesium	100	101	101	mg/L	90-110
	Potassium	100	102	102	mg/L	90-110
	Sodium	100	100	100	mg/L	90-110
S8J1112-CCV5	Antimony	1.00	0.981	98.1	mg/L	90-110
	Arsenic	1.00	0.981	98.1	mg/L	90-110
	Barium	1.00	1.00	100	mg/L	90-110
	Beryllium	1.00	1.01	101	mg/L	90-110
	Cadmium	1.00	1.00	100	mg/L	90-110
	Chromium	1.00	1.00	100	mg/L	90-110
	Cobalt	1.00	0.985	98.5	mg/L	90-110
	Copper	1.00	1.00	100	mg/L	90-110
	Lead	1.00	0.989	98.9	mg/L	90-110
	Manganese	1.00	0.994	99.4	mg/L	90-110
	Nickel	1.00	0.991	99.1	mg/L	90-110
	Selenium	1.00	1.01	101	mg/L	90-110
	Silver	1.00	0.945	94.5	mg/L	90-110
	Thallium	1.00	0.995	99.5	mg/L	90-110
	Vanadium	1.00	0.993	99.3	mg/L	90-110
	Zinc	1.00	0.977	97.7	mg/L	90-110
S8J1112-CCV6	Aluminum	100	99.4	99.4	mg/L	90-110
	Calcium	100	98.6	98.6	mg/L	90-110
	Iron	40.0	39.0	97.5	mg/L	90-110
	Magnesium	100	99.7	99.7	mg/L	90-110
	Potassium	100	99.3	99.3	mg/L	90-110
	Sodium	100	98.6	98.6	mg/L	90-110
S8J1112-CCV7	Antimony	1.00	0.946	94.6	mg/L	90-110
	Arsenic	1.00	0.952	95.2	mg/L	90-110
	Barium	1.00	0.966	96.6	mg/L	90-110
	Beryllium	1.00	0.972	97.2	mg/L	90-110
	Cadmium	1.00	0.966	96.6	mg/L	90-110
	Chromium	1.00	0.965	96.5	mg/L	90-110
	Cobalt	1.00	0.953	95.3	mg/L	90-110
	Copper	1.00	0.962	96.2	mg/L	90-110
	Lead	1.00	0.957	95.7	mg/L	90-110
	Manganese	1.00	0.958	95.8	mg/L	90-110
	Nickel	1.00	0.957	95.7	mg/L	90-110
	Selenium	1.00	0.976	97.6	mg/L	90-110
	Silver	1.00	0.924	92.4	mg/L	90-110

ICV = Initial Cal Verification CCV = Continuing Cal Verification IFB = Interference Check Standard B

F-VII

SEQUENCE CALIBRATION CHECKS

SW 846 6010D

Client: **Peak Environmental**
Project: **Ridgewood**
Work Order: **8100452**

Sequence: S8J1112
Instrument: ICP OES-1

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8J1112-CCV7	Thallium	1.00	0.955	95.5	mg/L	90-110
	Vanadium	1.00	0.957	95.7	mg/L	90-110
	Zinc	1.00	0.943	94.3	mg/L	90-110
S8J1112-CCV8	Aluminum	100	96.7	96.7	mg/L	90-110
	Calcium	100	97.3	97.3	mg/L	90-110
	Iron	40.0	38.1	95.2	mg/L	90-110
	Magnesium	100	97.7	97.7	mg/L	90-110
	Potassium	100	97.8	97.8	mg/L	90-110
	Sodium	100	96.3	96.3	mg/L	90-110

ICV = Initial Cal Verification CCV = Continuing Cal Verification IFB = Interference Check Standard B

PESTICIDES

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

Pesticides - SW 846 8081B

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1047-BLK1**		

Init/Final Vol:	15 g / 10 mL	Prep Date:	10/10/2018 15:25	File ID:	7T01034.D
		Prep Batch:	B8J1047	Analyzed:	10/12/2018 18:05
		Matrix:	Soil	Sequence:	S8J1503
		Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
72-54-8	4,4'-DDD	ND	0.000787	0.00130	U
72-55-9	4,4'-DDE	ND	0.000920	0.00130	U
50-29-3	4,4'-DDT	ND	0.000624	0.00130	U
309-00-2	Aldrin	ND	0.000807	0.00130	U
319-84-6	alpha-BHC	ND	0.000503	0.00130	U
319-85-7	beta-BHC	ND	0.00128	0.00130	U
57-74-9	Chlordane	ND	0.000873	0.00130	U
319-86-8	delta-BHC	ND	0.00101	0.00130	U
60-57-1	Dieldrin	ND	0.000700	0.00130	U
959-98-8	Endosulfan I	ND	0.000900	0.00130	U
33213-65-9	Endosulfan II	ND	0.000707	0.00130	U
1031-07-8	Endosulfan sulfate	ND	0.000707	0.00130	U
72-20-8	Endrin	ND	0.000667	0.00130	U
7421-93-4	Endrin aldehyde	ND	0.000555	0.00130	U
53494-70-5	Endrin ketone	ND	0.000793	0.00130	U
58-89-9	gamma-BHC (Lindane)	ND	0.000594	0.00130	U
76-44-8	Heptachlor	ND	0.000760	0.00130	U
1024-57-3	Heptachlor Epoxide	ND	0.000813	0.00130	U
72-43-5	Methoxychlor	ND	0.000827	0.00130	U
8001-35-2	Toxaphene	ND	0.0202	0.0660	U

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181012\7T01034.D\ECD1A.CH Vial: 17
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181012\7T01034.D\ECD2B.CH
Acq On : 12 Oct 2018 18:05 Operator: sdp
Sample : B8J1047-BLK1 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 15 10:52 2018 Quant Results File: 80811012.RES

Quant Method : G:\HPCHEM\G...\80811012.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Mon Oct 15 10:51:09 2018
Response via : Initial Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	3.14	3.75	234.2E6	205.9E6	54.252	50.737
Spiked Amount 50.000	Range 43 - 129		Recovery =		108.50%	101.47%
20) S Decachlorobiphen	15.35	18.20	321.5E6	201.8E6	52.567	52.639
Spiked Amount 50.000	Range 42 - 136		Recovery =		105.13%	105.28%
Target Compounds						
Sum Chlordane (gamma)			0	0	N.D.	N.D.
Average Chlordane (gamma)					0.000	0.000
Sum Toxaphene (1)			0	0	N.D.	N.D.
Average Toxaphene (1)					0.000	0.000

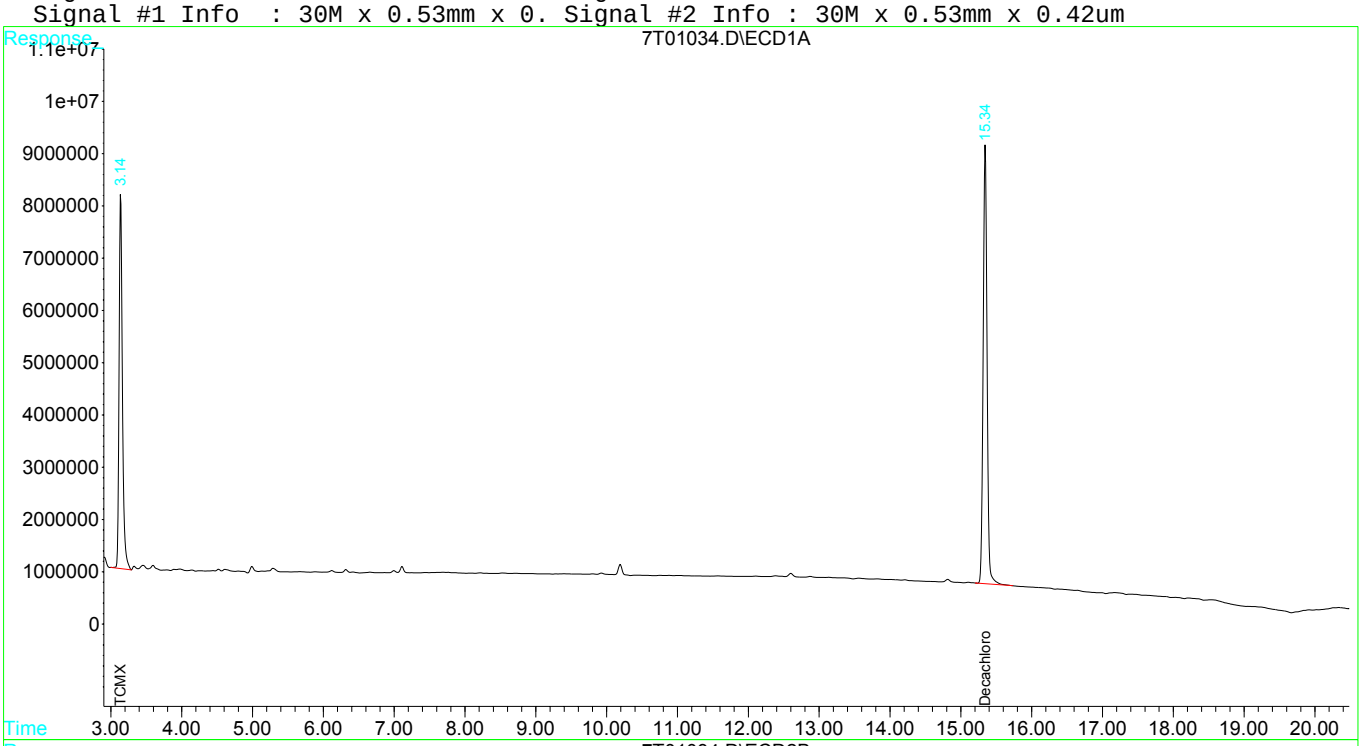
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
7T01034.D 80811012.M Mon Oct 15 11:18:17 2018 SS

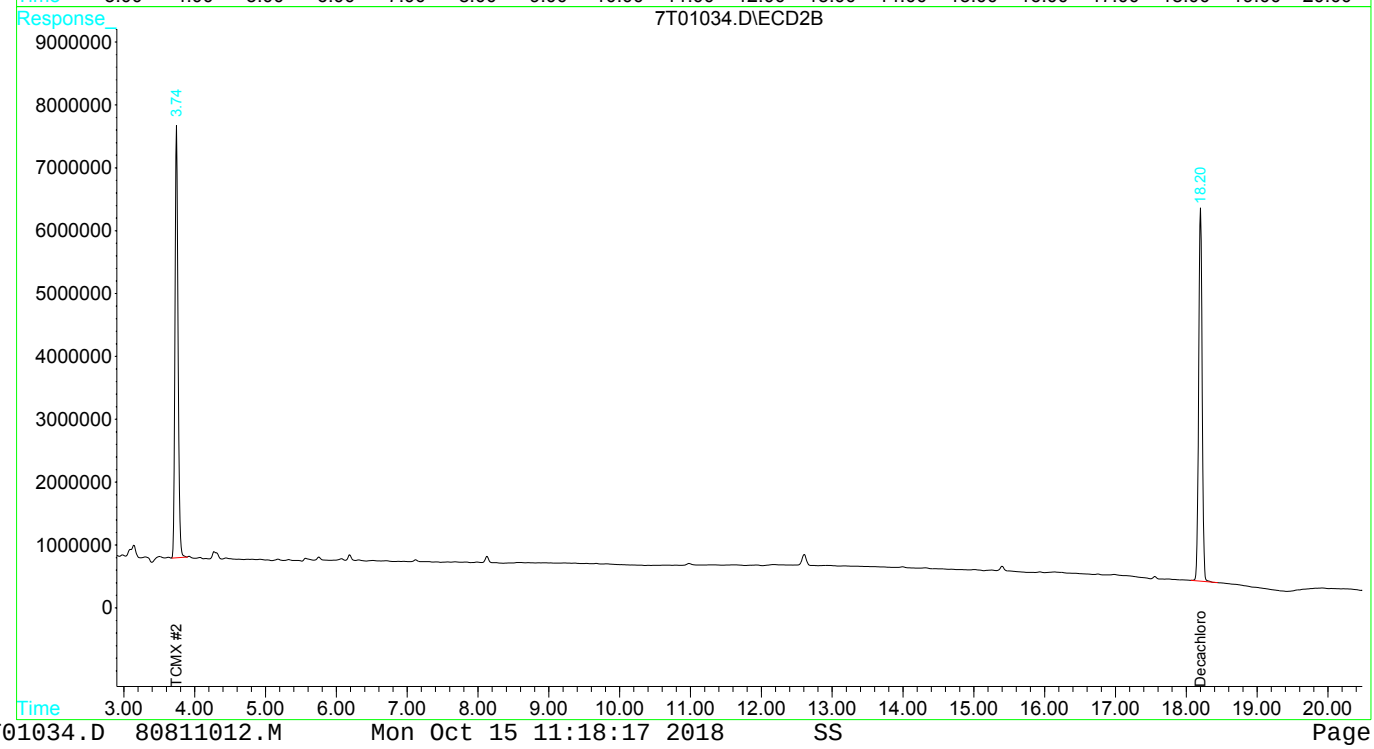
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181012\7T01034.D\ECD1A.CH Vial: 17
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181012\7T01034.D\ECD2B.CH
Acq On : 12 Oct 2018 18:05 Operator: sdp
Sample : B8J1047-BLK1 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 15 10:52 2018 Quant Results File: 80811012.RES

Quant Method : G:\HPCHEM\G...\80811012.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Mon Oct 15 10:51:09 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

Pesticides - SW 846 8081B

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 16:45	File ID:	7T01004.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1047	Analyzed:	10/11/18 16:06
Dilution:	1	Matrix:	Soil	Sequence:	S8J1202
Percent Solids:	89.91	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
72-54-8	4,4'-DDD	ND	0.000875	0.00145	U
72-55-9	4,4'-DDE	ND	0.00102	0.00145	U
50-29-3	4,4'-DDT	ND	0.000694	0.00145	U
309-00-2	Aldrin	ND	0.000898	0.00145	U
319-84-6	alpha-BHC	ND	0.000559	0.00145	U
319-85-7	beta-BHC	ND	0.00142	0.00145	U
57-74-9	Chlordane	ND	0.000971	0.00145	U
319-86-8	delta-BHC	ND	0.00112	0.00145	U
60-57-1	Dieldrin	ND	0.000779	0.00145	U
959-98-8	Endosulfan I	ND	0.00100	0.00145	U
33213-65-9	Endosulfan II	ND	0.000786	0.00145	U
1031-07-8	Endosulfan sulfate	ND	0.000786	0.00145	U
72-20-8	Endrin	ND	0.000742	0.00145	U
7421-93-4	Endrin aldehyde	ND	0.000617	0.00145	U
53494-70-5	Endrin ketone	ND	0.000882	0.00145	U
58-89-9	gamma-BHC (Lindane)	ND	0.000661	0.00145	U
76-44-8	Heptachlor	ND	0.000845	0.00145	U
1024-57-3	Heptachlor Epoxide	ND	0.000904	0.00145	U
72-43-5	Methoxychlor	ND	0.000920	0.00145	U
8001-35-2	Toxaphene	ND	0.0225	0.0734	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01004.D\ECD1A.CH Vial: 6
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01004.D\ECD2B.CH
Acq On : 11 Oct 2018 16:06 Operator: sdp
Sample : 8100452-01 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:53 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Initial Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	3.14	3.74	226.0E6	200.0E6	56.297	53.185
Spiked Amount 50.000	Range 43 - 129		Recovery =		112.59%	106.37%
20) S Decachlorobiphen	15.34	18.20	268.3E6	189.7E6	52.160m	46.656
Spiked Amount 50.000	Range 42 - 136		Recovery =		104.32%	93.31%
Target Compounds						
Sum Chlordane (gamma)			0	0	N.D.	N.D.
Average Chlordane (gamma)					0.000	0.000
Sum Toxaphene (1)			0	0	N.D.	N.D.
Average Toxaphene (1)					0.000	0.000

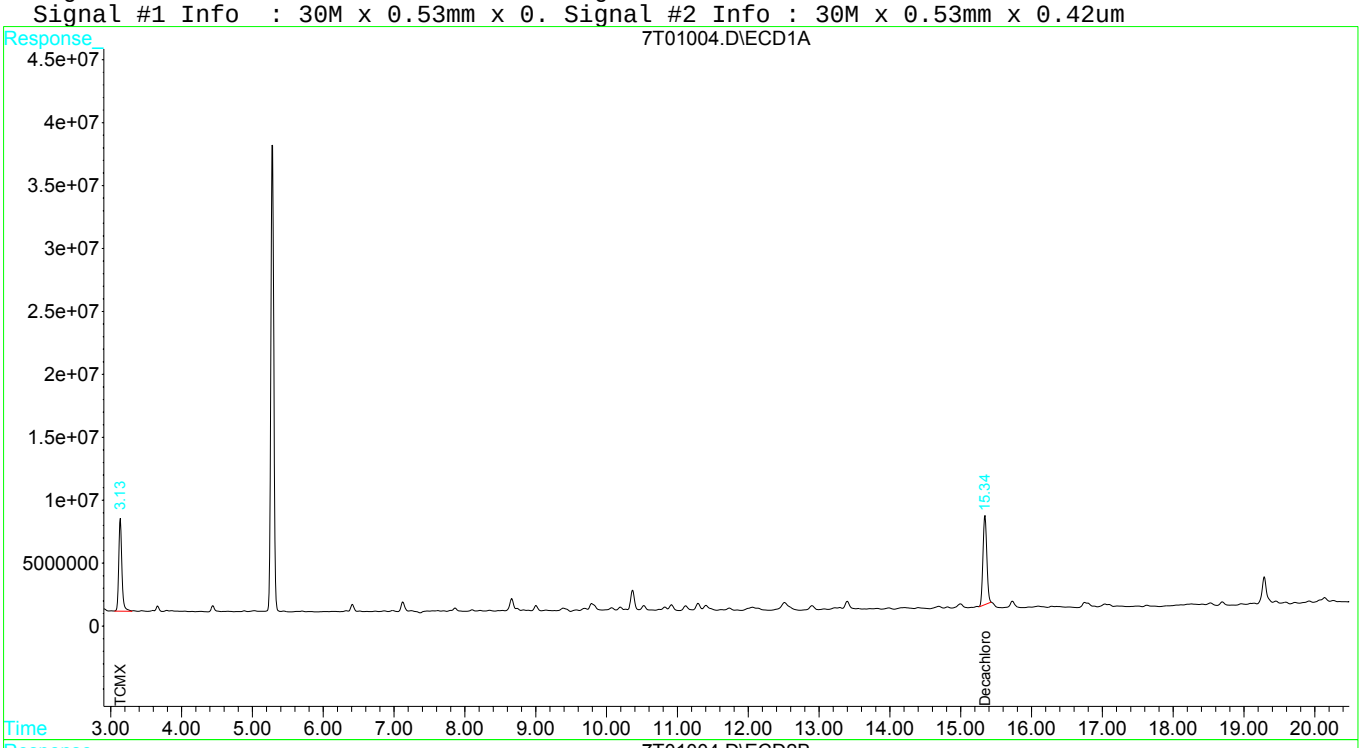
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
7T01004.D 80810806.M Fri Oct 12 10:05:58 2018 SS

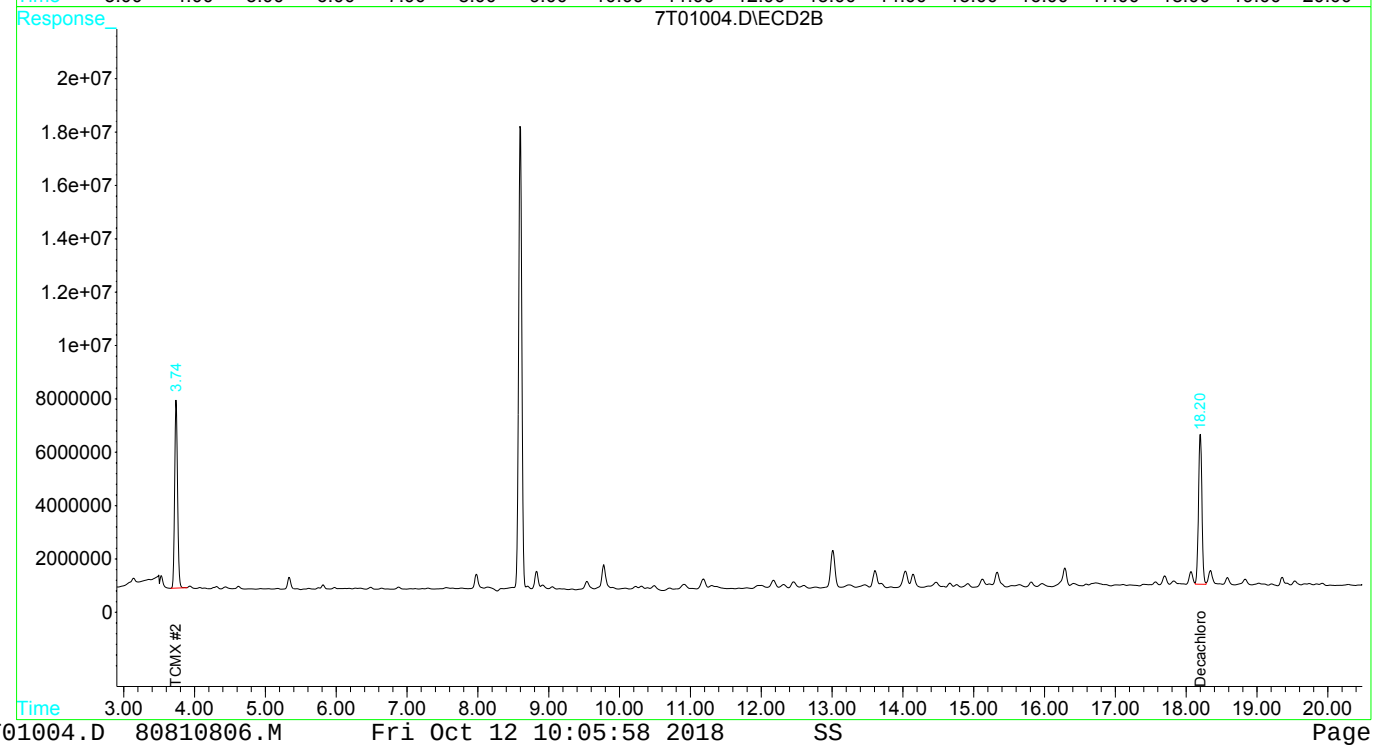
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01004.D\ECD1A.CH Vial: 6
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01004.D\ECD2B.CH
Acq On : 11 Oct 2018 16:06 Operator: sdp
Sample : 8100452-01 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:53 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

Pesticides - SW 846 8081B

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/10/18 16:45	File ID:	7T01005.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1047	Analyzed:	10/11/18 16:29
Dilution:	1	Matrix:	Soil	Sequence:	S8J1202
Percent Solids:	87.70	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
72-54-8	4,4'-DDD	ND	0.000897	0.00148	U
72-55-9	4,4'-DDE	ND	0.00105	0.00148	U
50-29-3	4,4'-DDT	ND	0.000711	0.00148	U
309-00-2	Aldrin	ND	0.000920	0.00148	U
319-84-6	alpha-BHC	ND	0.000574	0.00148	U
319-85-7	beta-BHC	ND	0.00146	0.00148	U
57-74-9	Chlordane	ND	0.000995	0.00148	U
319-86-8	delta-BHC	ND	0.00115	0.00148	U
60-57-1	Dieldrin	ND	0.000798	0.00148	U
959-98-8	Endosulfan I	ND	0.00103	0.00148	U
33213-65-9	Endosulfan II	ND	0.000806	0.00148	U
1031-07-8	Endosulfan sulfate	ND	0.000806	0.00148	U
72-20-8	Endrin	ND	0.000761	0.00148	U
7421-93-4	Endrin aldehyde	ND	0.000633	0.00148	U
53494-70-5	Endrin ketone	ND	0.000904	0.00148	U
58-89-9	gamma-BHC (Lindane)	ND	0.000677	0.00148	U
76-44-8	Heptachlor	ND	0.000867	0.00148	U
1024-57-3	Heptachlor Epoxide	ND	0.000927	0.00148	U
72-43-5	Methoxychlor	ND	0.000943	0.00148	U
8001-35-2	Toxaphene	ND	0.0230	0.0753	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01005.D\ECD1A.CH Vial: 7
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01005.D\ECD2B.CH
Acq On : 11 Oct 2018 16:29 Operator: sdp
Sample : 8100452-06 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:51 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Initial Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	3.14	3.74	224.1E6	195.4E6	55.817	51.962
Spiked Amount 50.000	Range 43 - 129		Recovery =		111.63%	103.92%
20) S Decachlorobiphen	15.34	18.20	280.5E6	187.5E6	54.540	46.111
Spiked Amount 50.000	Range 42 - 136		Recovery =		109.08%	92.22%
Target Compounds						
Sum Chlordane (gamma)			0	0	N.D.	N.D.
Average Chlordane (gamma)					0.000	0.000
Sum Toxaphene (1)			0	0	N.D.	N.D.
Average Toxaphene (1)					0.000	0.000

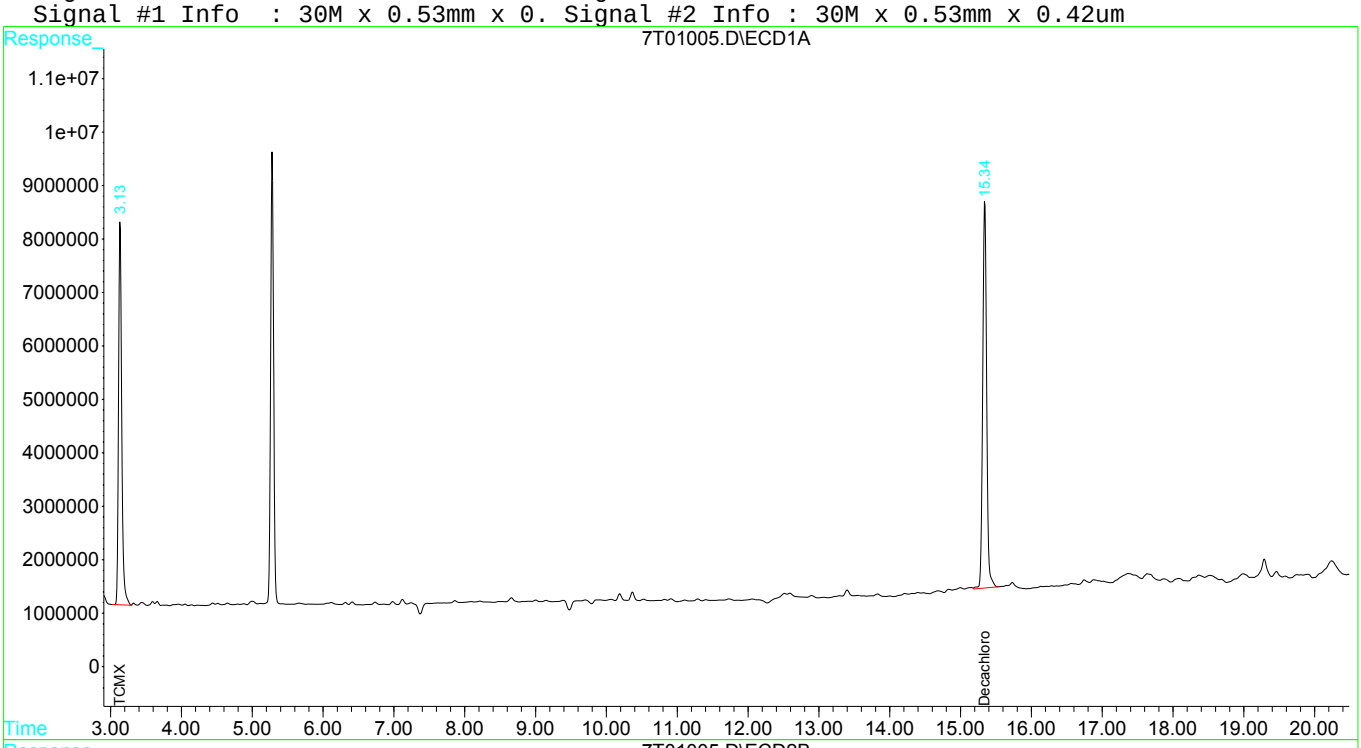
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
7T01005.D 80810806.M Fri Oct 12 10:05:59 2018 SS Page 1

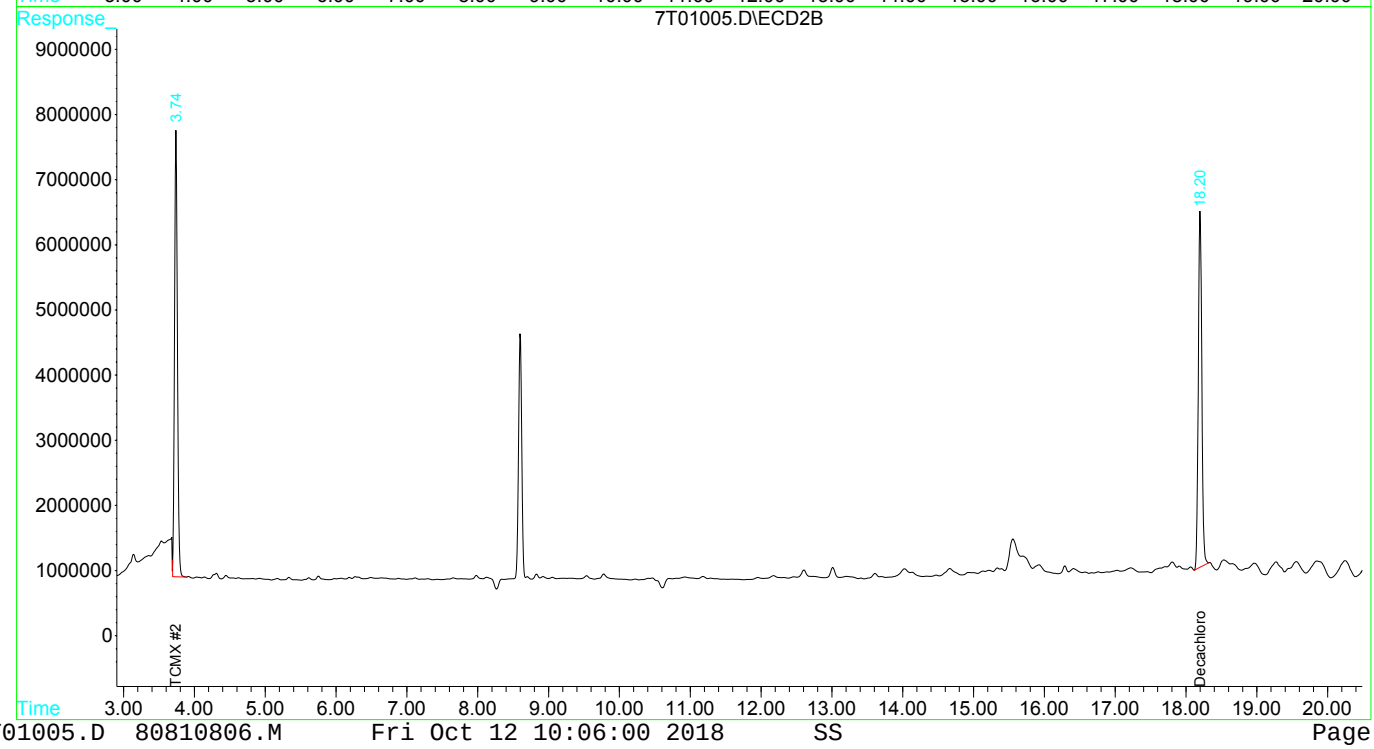
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01005.D\ECD1A.CH Vial: 7
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01005.D\ECD2B.CH
Acq On : 11 Oct 2018 16:29 Operator: sdp
Sample : 8100452-06 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:51 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

Pesticides - SW 846 8081B

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 16:45	File ID:	7T01006.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1047	Analyzed:	10/11/18 16:51
Dilution:	1	Matrix:	Soil	Sequence:	S8J1202
Percent Solids:	91.70	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
72-54-8	4,4'-DDD	ND	0.000858	0.00142	U
72-55-9	4,4'-DDE	ND	0.00100	0.00142	U
50-29-3	4,4'-DDT	ND	0.000681	0.00142	U
309-00-2	Aldrin	ND	0.000880	0.00142	U
319-84-6	alpha-BHC	ND	0.000549	0.00142	U
319-85-7	beta-BHC	ND	0.00140	0.00142	U
57-74-9	Chlordane	0.0103	0.000952	0.00142	
319-86-8	delta-BHC	ND	0.00110	0.00142	U
60-57-1	Dieldrin	ND	0.000763	0.00142	U
959-98-8	Endosulfan I	ND	0.000981	0.00142	U
33213-65-9	Endosulfan II	ND	0.000771	0.00142	U
1031-07-8	Endosulfan sulfate	ND	0.000771	0.00142	U
72-20-8	Endrin	ND	0.000727	0.00142	U
7421-93-4	Endrin aldehyde	ND	0.000605	0.00142	U
53494-70-5	Endrin ketone	ND	0.000865	0.00142	U
58-89-9	gamma-BHC (Lindane)	ND	0.000648	0.00142	U
76-44-8	Heptachlor	ND	0.000829	0.00142	U
1024-57-3	Heptachlor Epoxide	ND	0.000887	0.00142	U
72-43-5	Methoxychlor	ND	0.000902	0.00142	U
8001-35-2	Toxaphene	ND	0.0220	0.0720	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01006.D\ECD1A.CH Vial: 8
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01006.D\ECD2B.CH
Acq On : 11 Oct 2018 16:51 Operator: sdp
Sample : 8100452-12 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:58 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Initial Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	3.14	3.75	239.5E6	213.7E6	59.656	56.836
Spiked Amount 50.000	Range 43 - 129		Recovery =		119.31%	113.67%
20) S Decachlorobiphen	15.34	18.20	281.7E6	191.5E6	54.755m	47.076
Spiked Amount 50.000	Range 42 - 136		Recovery =		109.51%	94.15%
Target Compounds						
21) L1 Chlordane (gamma	6.98	8.70	30174757	23287349	6.157	5.468
22) L1 Chlordane (alpha	7.24f	9.06	38651343	17308403	8.014m	4.082 #
Sum Chlordane (gamma)			68826100	40595752	14.171	9.550
Average Chlordane (gamma)					7.086	4.775
Sum Toxaphene (1)			0	0	N.D.	N.D.
Average Toxaphene (1)					0.000	0.000

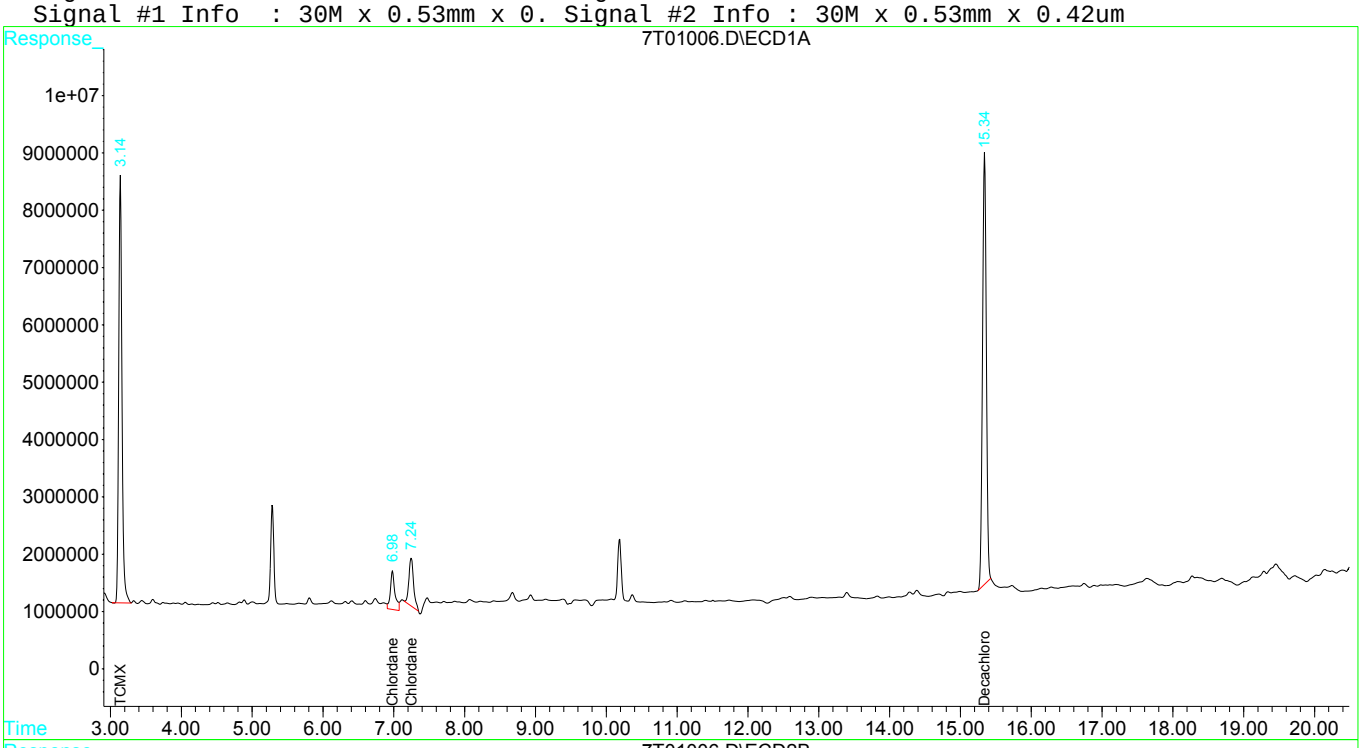
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
7T01006.D 80810806.M Fri Oct 12 10:06:01 2018 SS

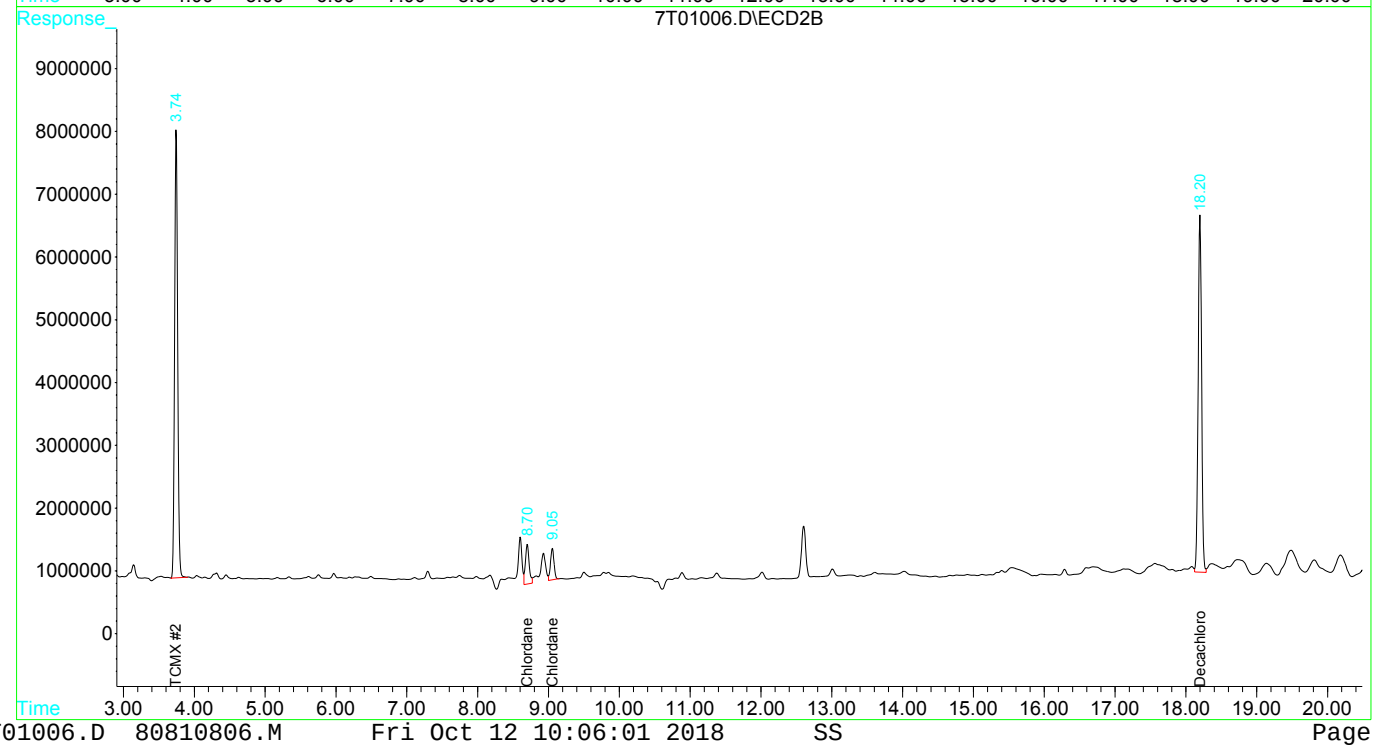
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01006.D\ECD1A.CH Vial: 8
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01006.D\ECD2B.CH
Acq On : 11 Oct 2018 16:51 Operator: sdp
Sample : 8100452-12 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:58 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

Pesticides - SW 846 8081B

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 16:45	File ID:	7T01007.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1047	Analyzed:	10/11/18 17:14
Dilution:	1	Matrix:	Soil	Sequence:	S8J1202
Percent Solids:	92.94	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
72-54-8	4,4'-DDD	ND	0.000847	0.00140	U
72-55-9	4,4'-DDE	ND	0.000990	0.00140	U
50-29-3	4,4'-DDT [2C]	0.00928	0.000586	0.00140	
309-00-2	Aldrin	ND	0.000868	0.00140	U
319-84-6	alpha-BHC	ND	0.000541	0.00140	U
319-85-7	beta-BHC	ND	0.00138	0.00140	U
57-74-9	Chlordane	0.0136	0.000939	0.00140	
319-86-8	delta-BHC	ND	0.00108	0.00140	U
60-57-1	Dieldrin	ND	0.000753	0.00140	U
959-98-8	Endosulfan I	ND	0.000968	0.00140	U
33213-65-9	Endosulfan II	ND	0.000761	0.00140	U
1031-07-8	Endosulfan sulfate	ND	0.000761	0.00140	U
72-20-8	Endrin	ND	0.000718	0.00140	U
7421-93-4	Endrin aldehyde	ND	0.000597	0.00140	U
53494-70-5	Endrin ketone	ND	0.000853	0.00140	U
58-89-9	gamma-BHC (Lindane)	ND	0.000639	0.00140	U
76-44-8	Heptachlor	ND	0.000818	0.00140	U
1024-57-3	Heptachlor Epoxide	ND	0.000875	0.00140	U
72-43-5	Methoxychlor	ND	0.000890	0.00140	U
8001-35-2	Toxaphene	ND	0.0217	0.0710	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01007.D\ECD1A.CH Vial: 9
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01007.D\ECD2B.CH
Acq On : 11 Oct 2018 17:14 Operator: sdp
Sample : 8100452-14 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:57 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Initial Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	3.14	3.75	238.7E6	221.1E6	59.464m	58.818
Spiked Amount 50.000	Range 43 - 129		Recovery =		118.93%	117.64%
20) S Decachlorobiphen	15.34	18.20	291.8E6	203.7E6	56.724m	50.087
Spiked Amount 50.000	Range 42 - 136		Recovery =		113.45%	100.17%
Target Compounds						
15) M 4,4'-DDT	9.48	12.02	30161373	38863152	7.794	12.942m#
21) L1 Chlordane (gamma	6.98	8.71	39449677	27879066	8.050	6.546
22) L1 Chlordane (alpha	7.26	9.06	52527887	30940546	10.891m	7.297 #
Sum Chlordane (gamma)			91977564	58819613	18.941	13.843
Average Chlordane (gamma)					9.471	6.921
Sum Toxaphene (1)			0	0	N.D.	N.D.
Average Toxaphene (1)					0.000	0.000

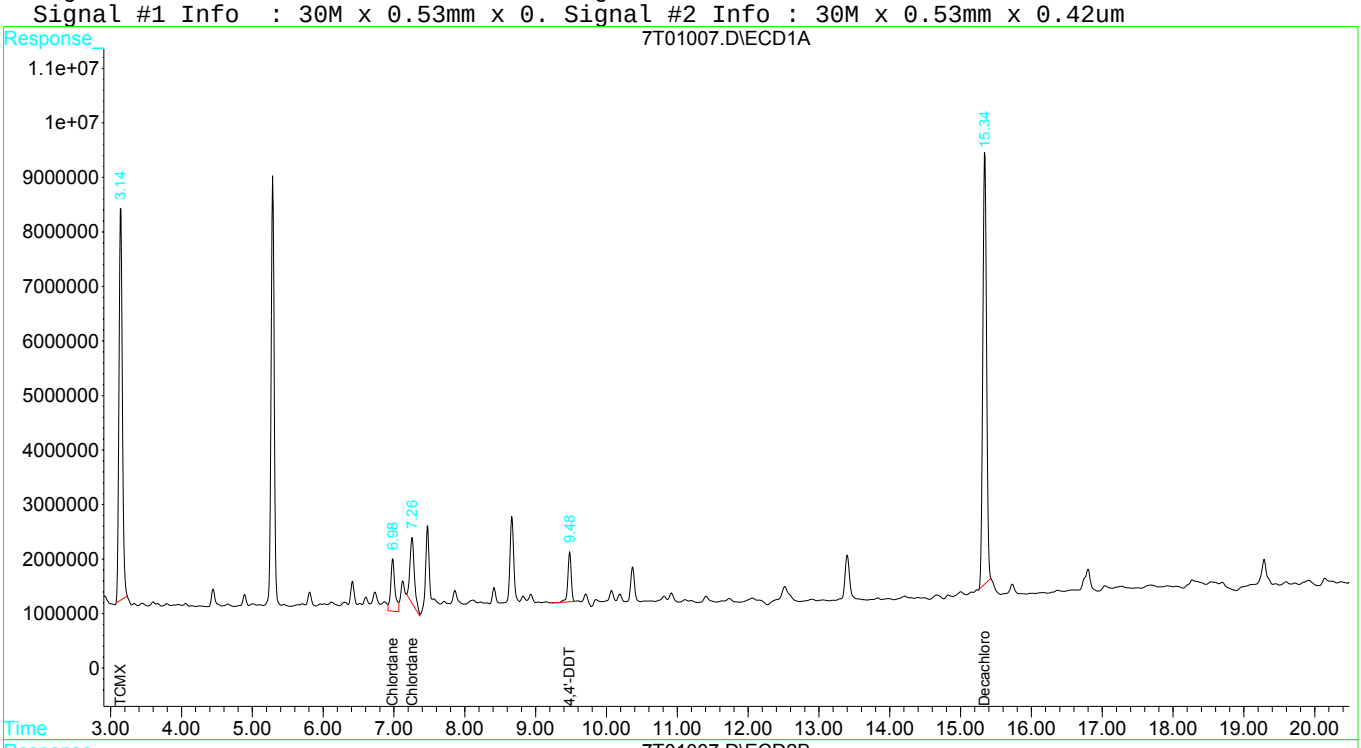
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
7T01007.D 80810806.M Fri Oct 12 10:06:03 2018 SS Page 1

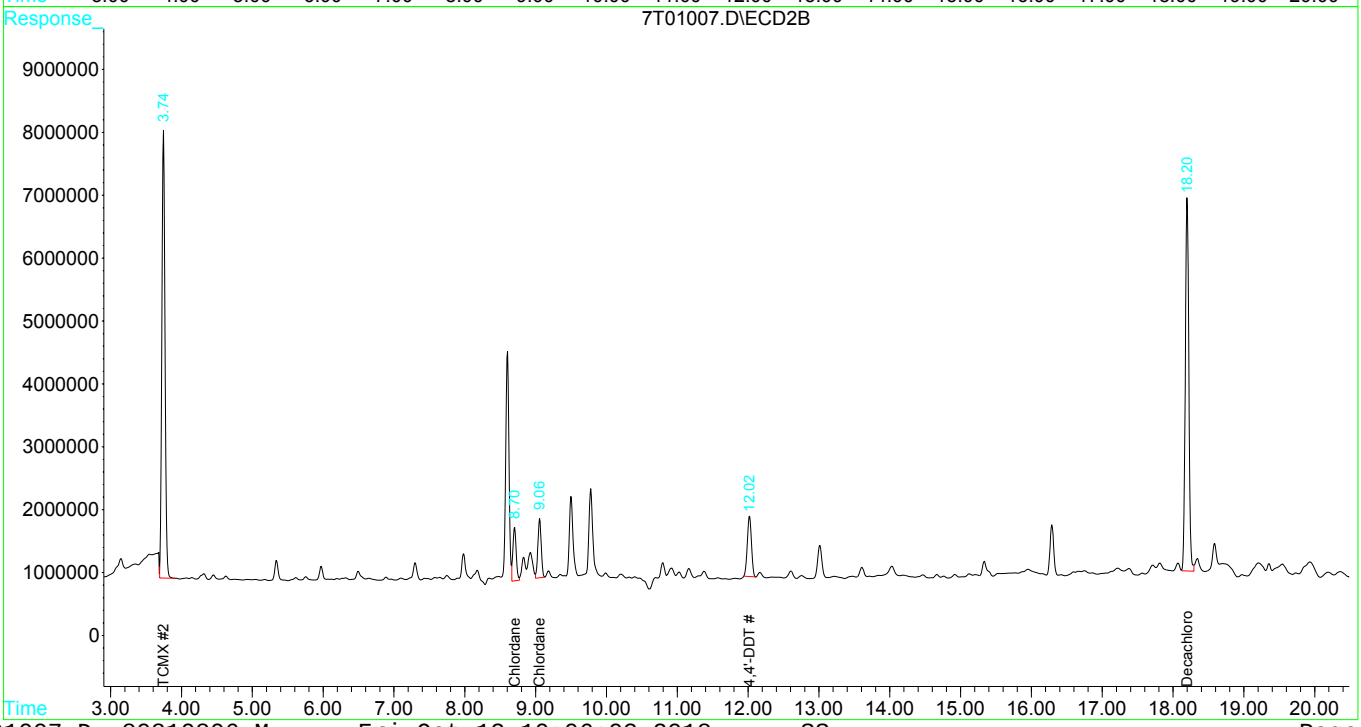
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01007.D\ECD1A.CH Vial: 9
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01007.D\ECD2B.CH
Acq On : 11 Oct 2018 17:14 Operator: sdp
Sample : 8100452-14 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:57 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





SURROGATE RECOVERIES

Analysis Class: PESTICIDES

Matrix: Soil **Method:** SW 846 8081B

Pesticides

Lab Number	File ID	TCMX	DCB	TCMX[2C]	DCB[2C]
8100452-01	7T01004.D	113	104	106	93.3
8100452-06	7T01005.D	112	109	104	92.2
8100452-12	7T01006.D	119	110	114	94.2
8100452-14	7T01007.D	119	113	118	100
B8J1047-BLK1	7T01034.D	108	105	101	105
B8J1047-BS1	7T01035.D	103	102	96.3	102
B8J1047-MS1	7T01018.D	97.6	112	104	95.2
B8J1047-MSD1	7T01019.D	97.2	115	105	89.4

Surrogate Limits		Lo Limit	Hi Limit
TCMX	Tetrachloro-m-xylene	41.8	136
DCB	Decachlorobiphenyl	43.1	129
TCMX[2C]	Tetrachloro-m-xylene [2C]	41.8	136
DCB[2C]	Decachlorobiphenyl [2C]	43.1	129

F-II

* - Outside of QC Limits

Batch B8J1047 **Method: SW 846 8081B** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1047-BS1		4,4'-DDD	0.0386	mg/kg wet	0.0333		116	91.1-141		
B8J1047-BS1		4,4'-DDE	0.0375	mg/kg wet	0.0333		113	98.2-139		
B8J1047-BS1		4,4'-DDT	0.0390	mg/kg wet	0.0333		117	23.3-144		
B8J1047-BS1		Aldrin	0.0384	mg/kg wet	0.0333		115	75-130		
B8J1047-BS1		alpha-BHC	0.0387	mg/kg wet	0.0333		116	74.3-132		
B8J1047-BS1		beta-BHC	0.0386	mg/kg wet	0.0333		116	76.9-128		
B8J1047-BS1		delta-BHC	0.0395	mg/kg wet	0.0333		118	61-155		
B8J1047-BS1		Dieldrin	0.0385	mg/kg wet	0.0333		115	74.9-130		
B8J1047-BS1		Endosulfan I	0.0375	mg/kg wet	0.0333		113	60.8-126		
B8J1047-BS1		Endosulfan II	0.0365	mg/kg wet	0.0333		110	72.7-125		
B8J1047-BS1		Endosulfan sulfate	0.0340	mg/kg wet	0.0333		102	63.7-128		
B8J1047-BS1		Endrin	0.0392	mg/kg wet	0.0333		118	77.7-141		
B8J1047-BS1		Endrin aldehyde	0.0329	mg/kg wet	0.0333		98.6	57.7-113		
B8J1047-BS1		Endrin ketone	0.0349	mg/kg wet	0.0333		105	64.1-133		
B8J1047-BS1		gamma-BHC (Lindane)	0.0386	mg/kg wet	0.0333		116	74-133		
B8J1047-BS1		Heptachlor	0.0376	mg/kg wet	0.0333		113	74.4-132		
B8J1047-BS1		Heptachlor Epoxide	0.0358	mg/kg wet	0.0333		108	75.2-127		
B8J1047-BS1		Methoxychlor	0.0362	mg/kg wet	0.0333		109	37.4-147		

Batch B8J1047 (cont.) **Method: SW 846 8081B** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1047-MS1	8100408-01	4,4'-DDD	0.0542	mg/kg dry	0.0406	ND	134	56.4-168		
B8J1047-MS1	8100408-01	4,4'-DDE	0.0454	mg/kg dry	0.0406	ND	112	67.4-153		
B8J1047-MS1	8100408-01	4,4'-DDT	0.0256	mg/kg dry	0.0406	ND	63.1	15-117		
B8J1047-MS1	8100408-01	Aldrin	0.0485	mg/kg dry	0.0406	ND	119	49.4-130		
B8J1047-MS1	8100408-01	alpha-BHC	0.0597	mg/kg dry	0.0406	ND	147*	48.9-139		
B8J1047-MS1	8100408-01	beta-BHC	0.0464	mg/kg dry	0.0406	ND	114	43.1-140		
B8J1047-MS1	8100408-01	delta-BHC	0.0575	mg/kg dry	0.0406	ND	142	36.1-164		
B8J1047-MS1	8100408-01	Dieldrin	0.0461	mg/kg dry	0.0406	ND	114	55.1-122		
B8J1047-MS1	8100408-01	Endosulfan I	0.0441	mg/kg dry	0.0406	ND	109	42.1-110		
B8J1047-MS1	8100408-01	Endosulfan II	0.0411	mg/kg dry	0.0406	ND	101	46.9-119		
B8J1047-MS1	8100408-01	Endosulfan sulfate	0.0397	mg/kg dry	0.0406	ND	97.9	24.6-139		
B8J1047-MS1	8100408-01	Endrin	0.0546	mg/kg dry	0.0406	ND	135	40.4-139		
B8J1047-MS1	8100408-01	Endrin aldehyde	0.0285	mg/kg dry	0.0406	ND	70.2	36.3-126		
B8J1047-MS1	8100408-01	Endrin ketone	0.0428	mg/kg dry	0.0406	ND	105	15-149		
B8J1047-MS1	8100408-01	gamma-BHC (Lindane)	0.0675	mg/kg dry	0.0406	ND	166*	32.3-140		
B8J1047-MS1	8100408-01	Heptachlor	0.0428	mg/kg dry	0.0406	ND	105	15-147		
B8J1047-MS1	8100408-01	Heptachlor Epoxide	0.0469	mg/kg dry	0.0406	ND	116	49-121		
B8J1047-MS1	8100408-01	Methoxychlor	0.0378	mg/kg dry	0.0406	ND	93.0	15-122		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1047 (cont.) **Method: SW 846 8081B** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1047-MSD1	8100408-01	4,4'-DDD	0.0549	mg/kg dry	0.0406	ND	135	56.4-168	1.22	30
B8J1047-MSD1	8100408-01	4,4'-DDE	0.0459	mg/kg dry	0.0406	ND	113	67.4-153	1.05	30
B8J1047-MSD1	8100408-01	4,4'-DDT	0.0253	mg/kg dry	0.0406	ND	62.4	15-117	1.21	30
B8J1047-MSD1	8100408-01	Aldrin	0.0486	mg/kg dry	0.0406	ND	120	49.4-130	0.184	30
B8J1047-MSD1	8100408-01	alpha-BHC	0.0599	mg/kg dry	0.0406	ND	148*	48.9-139	0.448	30
B8J1047-MSD1	8100408-01	beta-BHC	0.0526	mg/kg dry	0.0406	ND	130	43.1-140	12.5	30
B8J1047-MSD1	8100408-01	delta-BHC	0.0546	mg/kg dry	0.0406	ND	135	36.1-164	5.09	30
B8J1047-MSD1	8100408-01	Dieldrin	0.0465	mg/kg dry	0.0406	ND	114	55.1-122	0.754	30
B8J1047-MSD1	8100408-01	Endosulfan I	0.0445	mg/kg dry	0.0406	ND	110	42.1-110	1.04	30
B8J1047-MSD1	8100408-01	Endosulfan II	0.0413	mg/kg dry	0.0406	ND	102	46.9-119	0.394	30
B8J1047-MSD1	8100408-01	Endosulfan sulfate	0.0398	mg/kg dry	0.0406	ND	98.0	24.6-139	0.0613	30
B8J1047-MSD1	8100408-01	Endrin	0.0549	mg/kg dry	0.0406	ND	135	40.4-139	0.475	30
B8J1047-MSD1	8100408-01	Endrin aldehyde	0.0287	mg/kg dry	0.0406	ND	70.7	36.3-126	0.681	30
B8J1047-MSD1	8100408-01	Endrin ketone	0.0424	mg/kg dry	0.0406	ND	104	15-149	0.896	30
B8J1047-MSD1	8100408-01	gamma-BHC (Lindane)	0.0487	mg/kg dry	0.0406	ND	120	32.3-140	32.4*	30
B8J1047-MSD1	8100408-01	Heptachlor	0.0549	mg/kg dry	0.0406	ND	135	15-147	24.7	30
B8J1047-MSD1	8100408-01	Heptachlor Epoxide	0.0471	mg/kg dry	0.0406	ND	116	49-121	0.501	30
B8J1047-MSD1	8100408-01	Methoxychlor	0.0377	mg/kg dry	0.0406	ND	92.8	15-122	0.258	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

METHOD BLANK SUMMARY

Batch ID: **B8J1047**

Lab Number	Sample Id	Extraction Date	Analysis Date
B8J1047-BLK1	BLK1	10/10/2018	10/12/2018 18:05
B8J1047-BS1	BS1	10/10/2018	10/12/2018 18:27
B8J1047-MS1	MS1	10/10/2018	10/11/2018 21:24
B8J1047-MSD1	MSD1	10/10/2018	10/11/2018 21:47
8100452-01	NTP-1A	10/10/2018	10/11/2018 16:06
8100452-06	NTP-6	10/10/2018	10/11/2018 16:29
8100452-12	STP-4B	10/10/2018	10/11/2018 16:51
8100452-14	STP-7	10/10/2018	10/11/2018 17:14

SURROGATE RT DRIFT REPORT

Analysis Class: PESTICIDES

Sequence : S8J1202

		TCMX			DCB			TCMX[2C]			DCB[2C]		
Lab Number	File ID	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift
8100452-01	7T01004.D	3.14	3.14	0.00	15.34	15.35	-0.01	3.74	3.74	0.00	18.2	18.2	0.00
8100452-06	7T01005.D	3.14	3.14	0.00	15.34	15.35	-0.01	3.74	3.74	0.00	18.2	18.2	0.00
8100452-12	7T01006.D	3.14	3.14	0.00	15.34	15.35	-0.01	3.75	3.74	0.01	18.2	18.2	0.00
8100452-14	7T01007.D	3.14	3.14	0.00	15.34	15.35	-0.01	3.75	3.74	0.01	18.2	18.2	0.00
B8J1047-MS1	7T01018.D	3.14	3.14	0.00	15.34	15.35	-0.01	3.74	3.74	0.00	18.2	18.2	0.00
B8J1047-MSD1	7T01019.D	3.15	3.14	0.01	15.34	15.35	-0.01	3.75	3.74	0.01	18.2	18.2	0.00

Sequence : S8J1503

		TCMX			DCB			TCMX[2C]			DCB[2C]		
Lab Number	File ID	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift
B8J1047-BLK1	7T01034.D	3.14	3.14	0.00	15.35	15.34	0.01	3.75	3.74	0.01	18.2	18.2	0.00
B8J1047-BS1	7T01035.D	3.14	3.14	0.00	15.34	15.34	0.00	3.75	3.74	0.01	18.2	18.2	0.00

Surrogate		Limit
TCMX	Tetrachloro-m-xylene	0.10
DCB	Decachlorobiphenyl	0.10
TCMX[2C]	Tetrachloro-m-xylene [2C]	0.10
DCB[2C]	Decachlorobiphenyl [2C]	0.10

DISS = Dissolved Analysis

F-V

Response Factor Report GCECD-7

Method : G:\HPCHEM\GCECD7\METHODS\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Mon Aug 06 17:06:26 2018

Calibration Files
2 =7T00005.D 5 =7T00006.D 10 =7T00007.D
25 =7T00008.D 50 =7T00009.D 100 =7T00010.D

		Compound	2	5	10	25	50	100	Avg		%RSD
1)	S	TCMX	4.045	4.005	4.067	4.008	3.906	4.055	4.014	E6	1.46
2)		alpha-BHC	4.499	4.881	5.144	5.638	5.948	6.630	5.456	E6	14.19
3)	M	gamma-BHC (Lindane)	4.257	4.697	4.878	5.214	5.422	6.026	5.082	E6	12.11
4)	M	Heptachlor	4.914	5.123	5.058	5.167	5.321	5.895	5.246	E6	6.57
5)		beta-BHC	2.561	2.548	2.459	2.387	2.361	2.530	2.474	E6	3.46
6)		delta-BHC	4.622	4.691	4.951	5.178	5.496	6.097	5.172	E6	10.74
7)	M	Aldrin	4.374	4.626	4.630	4.865	5.092	5.679	4.877	E6	9.47
8)		Heptachlor epoxide	4.902	4.713	4.618	4.629	4.714	5.189	4.794	E6	4.56
9)		Endosulfan I	4.345	4.478	4.418	4.455	4.547	5.008	4.542	E6	5.24
10)		4,4'-DDE	3.997	4.195	4.191	4.381	4.543	5.119	4.404	E6	9.00
11)	M	Dieldrin	4.308	4.479	4.524	4.678	4.852	5.417	4.710	E6	8.34
12)	M	Endrin	3.818	3.959	3.952	4.060	4.207	4.727	4.121	E6	7.86
13)		4,4'-DDD	3.146	3.332	3.343	3.488	3.641	4.129	3.513	E6	9.80
14)		Endosulfan II	4.378	4.408	4.517	4.426	4.437	4.772	4.490	E6	3.25
15)	M	4,4'-DDT	3.880	3.724	3.692	3.731	3.851	4.340	3.870	E6	6.26
16)		Endrin aldehyde	3.629	3.952	4.116	4.121	4.097	3.960	3.979	E6	4.72
17)		Endosulfan sulfate	4.673	4.260	4.349	4.187	4.173	4.311	4.325	E6	4.24
18)		Methoxychlor	2.123	2.082	2.003	1.985	1.960	2.050	2.034	E6	3.07
19)		Endrin ketone	4.904	4.877	5.092	5.060	5.044	5.236	5.035	E6	2.61
20)	S	Decachlorobiphenyl	6.135	5.425	5.055	4.807	4.644	4.797	5.144	E6	10.83
21)	L1	Chlordane (gamma)	4.778	4.801	4.718	4.768	4.902	5.437	4.901	E6	5.50
22)	L1	Chlordane (alpha)	4.615	4.799	4.704	4.718	4.805	5.295	4.823	E6	5.01
23)	L2	Toxaphene (1)							0.000	0	-1.00

Signal #2 Calibration Files
2 =7T00005.D 5 =7T00006.D 10 =7T00007.D
25 =7T00008.D 50 =7T00009.D 100 =7T00010.D

		Compound	2	5	10	25	50	100	Avg		%RSD
1)	S	TCMX	4.327	3.849	3.718	3.614	3.466	3.585	3.760	E6	8.15
2)		alpha-BHC	4.264	4.551	4.790	5.235	5.445	6.094	5.063	E6	13.14
3)	M	gamma-BHC (Lindane)	4.229	4.354	4.531	4.781	4.967	5.500	4.727	E6	9.85
4)	M	Heptachlor	5.085	4.763	4.624	4.650	4.772	5.317	4.868	E6	5.63
5)		beta-BHC	2.616	2.438	2.312	2.219	2.175	2.274	2.339	E6	6.96
6)		delta-BHC	4.260	4.200	4.452	4.691	4.951	5.529	4.681	E6	10.70
7)	M	Aldrin	4.188	4.263	4.235	4.352	4.497	5.011	4.424	E6	6.95
8)		Heptachlor epoxide	4.124	4.189	4.141	4.134	4.183	4.607	4.230	E6	4.41
9)		Endosulfan I	4.007	4.015	3.890	3.844	3.865	4.217	3.973	E6	3.51
10)		4,4'-DDE	3.791	3.736	3.669	3.745	3.854	4.328	3.854	E6	6.24
11)	M	Dieldrin	3.975	4.096	4.052	4.086	4.163	4.646	4.170	E6	5.79
12)	M	Endrin	3.641	3.587	3.497	3.504	3.619	4.058	3.651	E6	5.70
13)		4,4'-DDD	3.560	3.241	3.103	3.117	3.182	3.542	3.291	E6	6.31
14)		Endosulfan II	4.357	4.116	4.085	3.890	3.838	4.052	4.056	E6	4.54
15)	M	4,4'-DDT	3.304	2.799	2.715	2.843	2.963	3.395	3.003	E6	9.37
16)		Endrin aldehyde	3.975	3.582	3.628	3.576	3.471	3.312	3.591	E6	6.12
17)		Endosulfan sulfate	4.236	3.935	3.913	3.734	3.683	3.759	3.877	E6	5.23
18)		Methoxychlor	1.892	1.722	1.677	1.650	1.636	1.726	1.717	E6	5.42
19)		Endrin ketone	4.161	4.065	4.206	4.127	4.158	4.290	4.168	E6	1.82
20)	S	Decachlorobiphenyl	4.556	4.448	4.139	3.826	3.657	3.776	4.067	E6	9.21
21)	L1	Chlordane (gamma)	4.141	4.238	4.156	4.142	4.215	4.660	4.259	E6	4.71
22)	L1	Chlordane (alpha)	4.404	4.243	4.163	4.079	4.093	4.462	4.240	E6	3.80
23)	L2	Toxaphene (1)							0.000	0	-1.00

(#) = Out of Range

Compound List Report GCECD-7

Method : G:\HPCHEM\GCECD7\METHODS\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Mon Aug 06 17:06:26 2018
Response via : Initial Calibration
Total Cpnds : 47

PK#	Type	Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX	3.15	1.000	A	A	B
2		alpha-BHC	3.83	1.000	A	A	B
3	M	gamma-BHC (Lindane)	4.28	1.000	A	A	B
4	M	Heptachlor	5.05	1.000	A	A	B
5		beta-BHC	4.41	1.000	A	A	B
6		delta-BHC	4.69	1.000	A	A	B
7	M	Aldrin	5.58	1.000	A	A	B
8		Heptachlor epoxide	6.76	1.000	A	A	B
9		Endosulfan I	7.58	1.000	A	A	B
10		4,4'-DDE	7.51	1.000	A	A	B
11	M	Dieldrin	8.10	1.000	A	A	B
12	M	Endrin	8.62	1.000	A	A	B
13		4,4'-DDD	8.86	1.000	A	A	B
14		Endosulfan II	9.13	1.000	A	A	B
15	M	4,4'-DDT	9.52	1.000	A	A	B
16		Endrin aldehyde	10.15	1.000	A	A	B
17		Endosulfan sulfate	11.33	1.000	A	A	B
18		Methoxychlor	10.83	1.000	A	A	B
19		Endrin ketone	12.16	1.000	A	A	B
20	S	Decachlorobiphenyl	15.38	1.000	A	A	B
21	L1	Chlordane (gamma)	7.01	1.000	A	A	B
22	L1	Chlordane (alpha)	7.29	1.000	A	A	B
23	L2	Toxaphene (1)	11.16	1.000	A	A	R
24		Signal #2	35.00	1.000	A	A	B
25	S	TCMX #2	3.78	1.000	A	A	B
26		alpha-BHC #2	4.77	1.000	A	A	B
27	M	gamma-BHC (Lindane) #2	5.44	1.000	A	A	B
28	M	Heptachlor #2	6.34	1.000	A	A	B
29		beta-BHC #2	5.58	1.000	A	A	B
30		delta-BHC #2	6.19	1.000	A	A	B
31	M	Aldrin #2	7.04	1.000	A	A	B
32		Heptachlor epoxide #2	8.35	1.000	A	A	B
33		Endosulfan I #2	9.28	1.000	A	A	B
34		4,4'-DDE #2	9.60	1.000	A	A	B
35	M	Dieldrin #2	9.96	1.000	A	A	B
36	M	Endrin #2	10.75	1.000	A	A	B
37		4,4'-DDD #2	11.15	1.000	A	A	B
38		Endosulfan II #2	11.37	1.000	A	A	B
39	M	4,4'-DDT #2	12.16	1.000	A	A	B
40		Endrin aldehyde #2	12.50	1.000	A	A	B
41		Endosulfan sulfate #2	13.39	1.000	A	A	B
42		Methoxychlor #2	14.42	1.000	A	A	B
43		Endrin ketone #2	14.94	1.000	A	A	B
44	S	Decachlorobiphenyl #2	18.31	1.000	A	A	B
45	L1	Chlordane (gamma) #2	8.80	1.000	A	A	B
46	L1	Chlordane (alpha) #2	9.15	1.000	A	A	B
47	L2	Toxaphene (1) #2	14.65	1.000	A	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

80810806.M Wed Aug 08 15:41:43 2018 SS

Response Factor Report GCECD-7

Method : G:\HPCHEM\GCECD7\METHODS\80811012.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Mon Oct 15 10:51:09 2018

Calibration Files
2 =7T01026.D 5 =7T01027.D 10 =7T01028.D
25 =7T01023.D 50 =7T01024.D 100 =7T01025.D

		Compound	2	5	10	25	50	100	Avg		%RSD
1)	S	TCMX	4.033	4.390	4.433	4.420	4.198	4.425	4.317	E6	3.82
2)		alpha-BHC	4.681	5.207	5.398	6.049	6.306	7.209	5.808	E6	15.53
3)	M	gamma-BHC (Lindane)	4.557	4.999	5.123	5.592	5.740	6.521	5.422	E6	12.65
4)	M	Heptachlor	5.638	5.959	5.755	5.935	5.964	6.690	5.990	E6	6.13
5)		beta-BHC	2.631	2.672	2.603	2.613	2.491	2.756	2.628	E6	3.31
6)		delta-BHC	4.676	5.031	5.221	5.593	5.883	6.751	5.526	E6	13.28
7)	M	Aldrin	4.718	5.147	5.071	5.319	5.506	6.274	5.339	E6	9.90
8)		Heptachlor epoxide	5.481	5.389	5.122	5.109	5.111	5.655	5.311	E6	4.37
9)		Endosulfan I	4.788	5.161	4.998	5.088	5.098	5.662	5.133	E6	5.65
10)		4,4'-DDE	4.788	5.161	4.998	5.088	5.098	5.662	5.133	E6	5.65
11)	M	Dieldrin	4.483	4.878	4.835	4.970	5.079	5.890	5.023	E6	9.36
12)	M	Endrin	4.286	4.557	4.500	4.712	4.798	5.486	4.723	E6	8.76
13)		4,4'-DDD	3.476	3.694	3.677	3.773	3.927	4.599	3.858	E6	10.15
14)		Endosulfan II	4.589	4.867	4.969	4.915	4.859	5.321	4.920	E6	4.80
15)	M	4,4'-DDT	3.669	3.907	3.921	4.091	4.248	4.978	4.136	E6	11.03
16)		Endrin aldehyde	4.377	4.519	4.661	4.569	4.472	4.673	4.545	E6	2.50
17)		Endosulfan sulfate	4.966	4.980	5.111	4.850	4.728	4.967	4.934	E6	2.64
18)		Methoxychlor	2.574	2.589	2.553	2.506	2.429	2.593	2.541	E6	2.48
19)		Endrin ketone	5.041	5.404	5.575	5.445	5.409	5.795	5.445	E6	4.54
20)	S	Decachlorobiphenyl	6.811	6.990	6.289	5.667	5.346	5.589	6.115	E6	11.21
21)	L1	Chlordane (gamma)	5.198	5.436	5.242	5.270	5.347	6.023	5.419	E6	5.67
22)	L1	Chlordane (alpha)	4.976	5.339	5.191	5.247	5.277	5.921	5.325	E6	5.96
23)	L2	Toxaphene (1)							0.000	0	-1.00

Signal #2 Calibration Files
2 =7T01026.D 5 =7T01027.D 10 =7T01028.D
25 =7T01023.D 50 =7T01024.D 100 =7T01025.D

		Compound	2	5	10	25	50	100	Avg		%RSD
1)	S	TCMX	4.878	4.229	4.007	3.866	3.609	3.760	4.058	E6	11.19
2)		alpha-BHC	4.974	5.424	5.555	5.886	5.905	6.555	5.717	E6	9.36
3)	M	gamma-BHC (Lindane)	4.797	5.148	5.217	5.402	5.390	5.951	5.318	E6	7.15
4)	M	Heptachlor	6.002	5.766	5.470	5.420	5.372	5.944	5.662	E6	4.90
5)		beta-BHC	2.928	2.771	2.607	2.437	2.326	2.452	2.587	E6	8.81
6)		delta-BHC	4.878	5.129	5.293	5.389	5.489	6.104	5.380	E6	7.70
7)	M	Aldrin	4.853	5.063	4.882	4.878	4.869	5.450	4.999	E6	4.68
8)		Heptachlor epoxide	4.850	5.102	4.873	4.695	4.600	5.036	4.859	E6	3.96
9)		Endosulfan I	4.980	5.068	4.836	4.565	4.473	4.898	4.803	E6	4.90
10)		4,4'-DDE	3.929	4.185	4.052	4.047	4.101	4.646	4.160	E6	6.07
11)	M	Dieldrin	4.691	4.877	4.723	4.590	4.535	5.056	4.745	E6	4.07
12)	M	Endrin	4.257	4.407	4.269	4.247	4.205	4.687	4.345	E6	4.16
13)		4,4'-DDD	4.270	3.968	3.755	3.551	3.522	3.930	3.833	E6	7.39
14)		Endosulfan II	4.723	4.761	4.763	4.352	4.166	4.427	4.532	E6	5.58
15)	M	4,4'-DDT	2.917	3.303	3.312	3.407	3.475	4.014	3.405	E6	10.44
16)		Endrin aldehyde	4.241	4.134	4.243	3.977	3.786	3.869	4.042	E6	4.80
17)		Endosulfan sulfate	4.893	4.748	4.717	4.259	4.062	4.173	4.475	E6	7.85
18)		Methoxychlor	2.152	2.251	2.158	2.053	1.984	2.100	2.116	E6	4.38
19)		Endrin ketone	4.585	4.858	4.972	4.595	4.506	4.733	4.708	E6	3.82
20)	S	Decachlorobiphenyl	4.482	4.380	3.971	3.486	3.274	3.404	3.833	E6	13.59
21)	L1	Chlordane (gamma)	4.856	5.047	4.814	4.634	4.589	5.073	4.835	E6	4.17
22)	L1	Chlordane (alpha)	4.980	5.068	4.836	4.565	4.473	4.898	4.803	E6	4.90
23)	L2	Toxaphene (1)							0.000	0	-1.00

(#) = Out of Range

Compound List Report GCECD-7

Method : G:\HPCHEM\GCECD7\METHODS\80811012.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Mon Oct 15 10:51:09 2018
Response via : Initial Calibration
Total Cpnds : 47

PK#	Type	Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX	3.14	1.000	A	A	B
2		alpha-BHC	3.81	1.000	A	A	B
3	M	gamma-BHC (Lindane)	4.27	1.000	A	A	B
4	M	Heptachlor	5.02	1.000	A	A	B
5		beta-BHC	4.39	1.000	A	A	B
6		delta-BHC	4.67	1.000	A	A	B
7	M	Aldrin	5.55	1.000	A	A	B
8		Heptachlor epoxide	6.73	1.000	A	A	B
9		Endosulfan I	7.54	1.000	A	A	B
10		4,4'-DDE	7.54	1.000	A	A	B
11	M	Dieldrin	8.07	1.000	A	A	B
12	M	Endrin	8.58	1.000	A	A	B
13		4,4'-DDD	8.82	1.000	A	A	B
14		Endosulfan II	9.10	1.000	A	A	B
15	M	4,4'-DDT	9.48	1.000	A	A	B
16		Endrin aldehyde	10.11	1.000	A	A	B
17		Endosulfan sulfate	11.28	1.000	A	A	B
18		Methoxychlor	10.79	1.000	A	A	B
19		Endrin ketone	12.11	1.000	A	A	B
20	S	Decachlorobiphenyl	15.34	1.000	A	A	B
21	L1	Chlordane (gamma)	6.98	1.000	A	A	B
22	L1	Chlordane (alpha)	7.26	1.000	A	A	B
23	L2	Toxaphene (1)	11.16	1.000	A	A	R
24		Signal #2	35.00	1.000	A	A	B
25	S	TCMX #2	3.74	1.000	A	A	B
26		alpha-BHC #2	4.72	1.000	A	A	B
27	M	gamma-BHC (Lindane) #2	5.37	1.000	A	A	B
28	M	Heptachlor #2	6.27	1.000	A	A	B
29		beta-BHC #2	5.52	1.000	A	A	B
30		delta-BHC #2	6.12	1.000	A	A	B
31	M	Aldrin #2	6.96	1.000	A	A	B
32		Heptachlor epoxide #2	8.26	1.000	A	A	B
33		Endosulfan I #2	9.06	1.000	A	A	B
34		4,4'-DDE #2	9.50	1.000	A	A	B
35	M	Dieldrin #2	9.86	1.000	A	A	B
36	M	Endrin #2	10.63	1.000	A	A	B
37		4,4'-DDD #2	11.03	1.000	A	A	B
38		Endosulfan II #2	11.25	1.000	A	A	B
39	M	4,4'-DDT #2	12.02	1.000	A	A	B
40		Endrin aldehyde #2	12.36	1.000	A	A	B
41		Endosulfan sulfate #2	13.26	1.000	A	A	B
42		Methoxychlor #2	14.29	1.000	A	A	B
43		Endrin ketone #2	14.81	1.000	A	A	B
44	S	Decachlorobiphenyl #2	18.20	1.000	A	A	B
45	L1	Chlordane (gamma) #2	8.70	1.000	A	A	B
46	L1	Chlordane (alpha) #2	9.06	1.000	A	A	B
47	L2	Toxaphene (1) #2	14.69	1.000	A	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

80811012.M Mon Oct 15 11:43:27 2018 SS

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (X50pp):	S8J1202-CCV1(1)	Init. Calib. Date(s):	08/06/2018
File ID:	7T01001.D	Date Analyzed:	10/11/2018 14:58
Pesticides	Column 1	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Aldrin	05.57	05.47	05.67	4877459	4899942	0.50
alpha-BHC	03.82	03.72	03.92	5456497	5403858	1.00
alpha-Chlordane (cis)	07.28	07.18	07.38	4822852	4695952	2.60
beta-BHC	04.40	04.30	04.50	2474249	2265636	8.40
delta-BHC	04.69	04.59	04.79	5172184	5055150	2.30
Dieldrin	08.08	07.98	08.18	4709648	4418592	6.20
Endosulfan I	07.56	07.46	07.66	4541974	4600952	1.30
Endosulfan II	09.11	09.01	09.21	4489556	4140890	7.80
Endosulfan sulfate	11.30	11.20	11.40	4325451	3862356	10.70
Endrin	08.59	08.49	08.69	4120614	4351818	5.60
Endrin aldehyde	10.12	10.02	10.22	3979113	3387226	14.90
Endrin ketone	12.13	12.03	12.23	5035335	4704802	6.60
gamma-BHC (Lindane)	04.28	04.18	04.38	5082343	5136686	1.10
4,4'-DDT	09.50	09.40	09.60	3869625	3787356	2.10
4,4'-DDE	07.56	07.46	07.66	4404421	4600952	4.50
4,4'-DDD	08.84	08.74	08.94	3512994	3496960	0.50
Methoxychlor	10.80	10.70	10.90	2033945	2231690	9.70
Heptachlor Epoxide	06.74	06.64	06.84	4794081	4565794	4.80
Heptachlor	05.04	04.94	05.14	5246329	5236254	0.20
					Average %D:	4.78

* - Outside of QC limits

F-VII

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (X50pp):	S8J1202-CCV1(2)	Init. Calib. Date(s):	08/06/2018
File ID:	7T01001.D	Date Analyzed:	10/11/2018 14:58
Pesticides	Column 2	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Aldrin [2C]	06.96	06.86	07.06	4424124	4460442	0.80
alpha-BHC [2C]	04.71	04.61	04.81	5063246	5193134	2.60
alpha-Chlordane (cis) [2C]	09.05	08.95	09.15	4240424	4000910	5.60
beta-BHC [2C]	05.51	05.41	05.61	2339061	2105140	10.00
delta-BHC [2C]	06.11	06.01	06.21	4680517	4850104	3.60
Dieldrin [2C]	09.85	09.75	09.95	4169666	4016782	3.70
Endosulfan I [2C]	09.05	08.95	09.15	3973062	4000910	0.70
Endosulfan II [2C]	11.24	11.14	11.34	4056479	3573708	11.90
Endosulfan sulfate [2C]	13.25	13.15	13.35	3876638	3371792	13.00
Endrin [2C]	10.63	10.53	10.73	3651053	3836088	5.10
Endrin aldehyde [2C]	12.35	12.25	12.45	3590744	2943654	18.00
Endrin ketone [2C]	14.81	14.71	14.91	4167805	3970844	4.70
gamma-BHC (Lindane) [2C]	05.37	05.27	05.47	4726962	4938496	4.50
4,4'-DDT [2C]	12.01	11.91	12.11	3002849	3151962	5.00
4,4'-DDE [2C]	09.50	09.40	09.60	3853824	3778712	1.90
4,4'-DDD [2C]	11.02	10.92	11.12	3290967	3164538	3.80
Methoxychlor [2C]	14.29	14.19	14.39	1717232	1844271	7.40
Heptachlor Epoxide [2C]	08.26	08.16	08.36	4229546	4141770	2.10
Heptachlor [2C]	06.26	06.16	06.36	4868319	4842704	0.50
					Average %D:	5.52

* - Outside of QC limits

F-VII

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01001.D\ECD1A.CH Vial: 3
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01001.D\ECD2B.CH
Acq On : 11 Oct 2018 14:58 Operator: sdp
Sample : SEQ-CCV Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:26 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 09:23:17 2018
Response via : Initial Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
	System Monitoring Compounds						
1) S	TCMX	3.14	3.74	66826565	59120632	16.647	15.725
	Spiked Amount 50.000	Range 43 - 129		Recovery =		33.29%#	31.45%#
20) S	Decachlorobiphen	15.35	18.20	89341608	56240380	17.369	13.829
	Spiked Amount 50.000	Range 42 - 136		Recovery =		34.74%#	27.66%#
	Target Compounds						
2)	alpha-BHC	3.82	4.71	270.2E6	259.7E6	49.518	51.283
3) M	gamma-BHC (Linda	4.28	5.37	256.8E6	246.9E6	50.535	52.238
4) M	Heptachlor	5.04	6.26	261.8E6	242.1E6	49.904	49.737
5)	beta-BHC	4.40	5.51	113.3E6	105.3E6	45.784	45.000
6)	delta-BHC	4.69	6.11	252.8E6	242.5E6	48.869	51.812
7) M	Aldrin	5.57	6.96	245.0E6	223.0E6	50.230	50.410
8)	Heptachlor epoxi	6.74	8.26	228.3E6	207.1E6	47.619	48.962
9)	Endosulfan I	7.56	9.05	230.0E6	200.0E6	50.649	50.350
10)	4,4'-DDE	7.56	9.50	230.0E6	188.9E6	52.231	49.026
11) M	Dieldrin	8.08	9.85	220.9E6	200.8E6	46.910	48.167
12) M	Endrin	8.59	10.63	217.6E6	191.8E6	52.805	52.534
13)	4,4'-DDD	8.84	11.02	174.8E6	158.2E6	49.772	48.079
14)	Endosulfan II	9.11	11.24	207.0E6	178.7E6	46.117	44.049
15) M	4,4'-DDT	9.50	12.01	189.4E6	157.6E6	48.937	52.483
16)	Endrin aldehyde	10.12	12.35	169.4E6	147.2E6	42.563	40.989
17)	Endosulfan sulfa	11.30	13.25	193.1E6	168.6E6	44.647	43.489
18)	Methoxychlor	10.80	14.29	111.6E6	92213569	54.861	53.699
19)	Endrin ketone	12.13	14.81	235.2E6	198.5E6	46.718	47.637
21) L1	Chlordane (gamma	7.00	8.70	237.8E6	206.4E6	48.517	48.457
22) L1	Chlordane (alpha	7.28	9.05	234.8E6	200.0E6	48.684	47.176
	Sum Chlordane (gamma)			472.6E6	406.4E6	97.201	95.633
Average	Chlordane (gamma)					48.601	47.816
	Sum Toxaphene (1)			0	0	N.D.	N.D.
Average	Toxaphene (1)					0.000	0.000

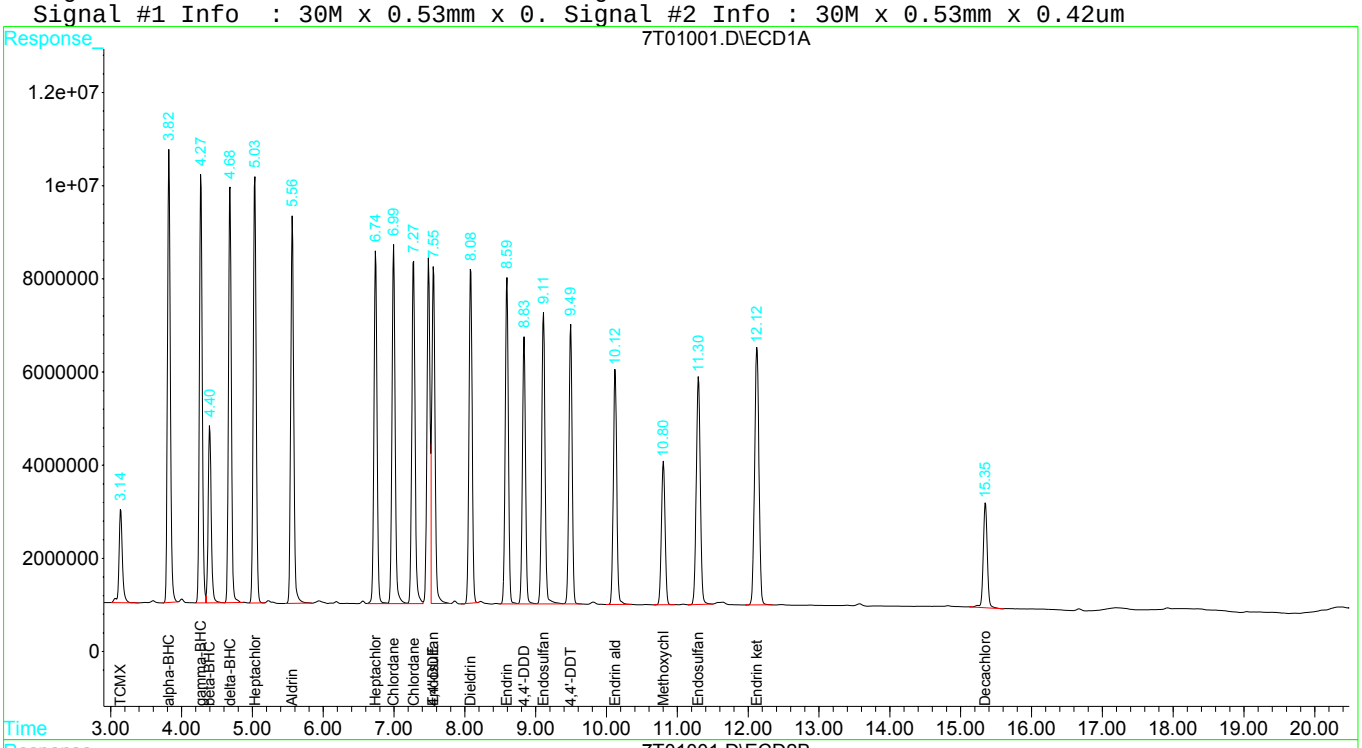
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
7T01001.D 80810806.M Fri Oct 12 10:05:53 2018 SS Page 1

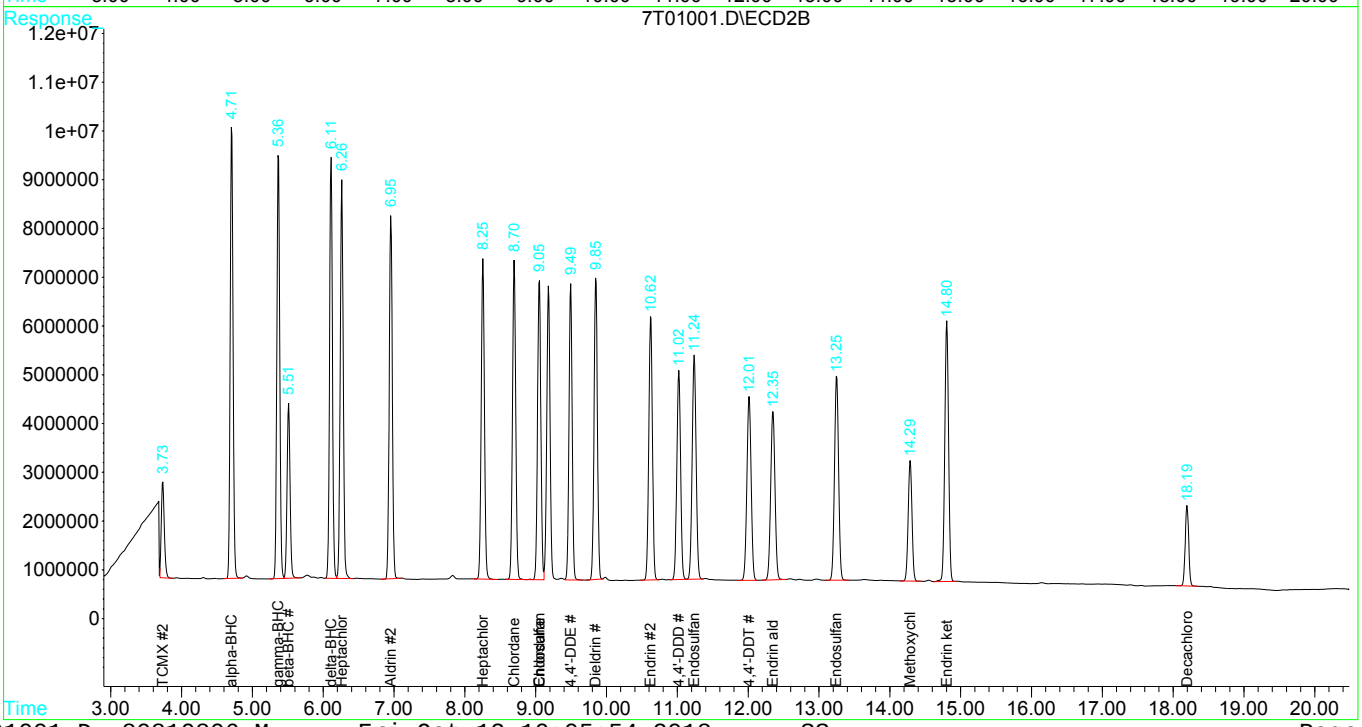
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01001.D\ECD1A.CH Vial: 3
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01001.D\ECD2B.CH
Acq On : 11 Oct 2018 14:58 Operator: sdp
Sample : SEQ-CCV Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:26 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 09:23:17 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





SEMIVOLATILES

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1101-BLK1**		

Init/Final Vol:	15 g / 1 mL	Prep Date:	10/11/2018 08:03	File ID:	DS18769.D
		Prep Batch:	B8J1101	Analyzed:	10/11/2018 13:11
		Matrix:	Soil	Sequence:	S8J1213
		Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.0319	0.200	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.0205	0.133	U
95-95-4	2,4,5-Trichlorophenol	ND	0.0181	0.133	U
88-06-2	2,4,6-Trichlorophenol	ND	0.00833	0.133	U
120-83-2	2,4-Dichlorophenol	ND	0.0134	0.133	U
105-67-9	2,4-Dimethylphenol	ND	0.0131	0.133	U
51-28-5	2,4-Dinitrophenol	ND	0.0192	0.667	U
121-14-2	2,4-Dinitrotoluene	ND	0.0142	0.133	U
606-20-2	2,6-Dinitrotoluene	ND	0.0318	0.133	U
91-58-7	2-Chloronaphthalene	ND	0.0153	0.133	U
95-57-8	2-Chlorophenol	ND	0.0176	0.133	U
91-57-6	2-Methylnaphthalene	ND	0.0319	0.200	U
95-48-7	2-Methylphenol	ND	0.0263	0.133	U
88-74-4	2-Nitroaniline	ND	0.0107	0.133	U
88-75-5	2-Nitrophenol	ND	0.0148	0.133	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.0140	0.133	U
106-44-5	3+4-Methylphenol	ND	0.0244	0.133	U
99-09-2	3-Nitroaniline	ND	0.0247	0.133	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.0251	0.333	U
101-55-3	4-Bromophenyl-phenyl ether	ND	0.0190	0.133	U
59-50-7	4-Chloro-3-methylphenol	ND	0.0210	0.133	U
106-47-8	4-Chloroaniline	ND	0.00466	0.133	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.00719	0.133	U
100-01-6	4-Nitroaniline	ND	0.0666	0.133	U
100-02-7	4-Nitrophenol	ND	0.00852	0.133	U
83-32-9	Acenaphthene	ND	0.00759	0.133	U
208-96-8	Acenaphthylene	ND	0.00463	0.133	U
98-86-2	Acetophenone	ND	0.0132	0.133	U
120-12-7	Anthracene	ND	0.0193	0.133	U
1912-24-9	Atrazine	ND	0.0125	0.133	U
100-52-7	Benzaldehyde	ND	0.0409	0.133	U

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ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1101-BLK1**		

Init/Final Vol:	15 g / 1 mL	Prep Date:	10/11/2018 08:03	File ID:	DS18769.D
		Prep Batch:	B8J1101	Analyzed:	10/11/2018 13:11
		Matrix:	Soil	Sequence:	S8J1213
		Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
56-55-3	Benzo(a)anthracene	ND	0.0134	0.133	U
50-32-8	Benzo(a)pyrene	ND	0.0232	0.133	U
205-99-2	Benzo(b)fluoranthene	ND	0.0187	0.133	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0108	0.133	U
207-08-9	Benzo(k)fluoranthene	ND	0.0153	0.133	U
92-52-4	Biphenyl	ND	0.0117	0.133	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.0184	0.133	U
111-44-4	bis(2-chloroethyl)ether	ND	0.0146	0.133	U
108-60-1	bis(2-chloroisopropyl)ether	ND	0.0479	0.133	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	0.0266	0.133	U
85-68-7	Butylbenzylphthalate	ND	0.0121	0.133	U
105-60-2	Caprolactam	ND	0.0172	0.133	U
86-74-8	Carbazole	ND	0.0256	0.333	U
218-01-9	Chrysene	ND	0.00912	0.133	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0132	0.133	U
132-64-9	Dibenzofuran	ND	0.00793	0.133	U
84-66-2	Diethylphthalate	ND	0.0258	0.133	U
131-11-3	Dimethylphthalate	0.0574	0.00826	0.133	J
84-74-2	Di-n-butylphthalate	ND	0.0544	0.133	U
117-84-0	Di-n-octylphthalate	ND	0.0273	0.133	U
206-44-0	Fluoranthene	ND	0.0125	0.133	U
86-73-7	Fluorene	ND	0.0111	0.133	U
118-74-1	Hexachlorobenzene	ND	0.0174	0.133	U
87-68-3	Hexachlorobutadiene	ND	0.0639	0.133	U
77-47-4	Hexachlorocyclopentadiene	ND	0.0555	0.333	U
67-72-1	Hexachloroethane	ND	0.0146	0.133	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0143	0.133	U
78-59-1	Isophorone	ND	0.00872	0.133	U
91-20-3	Naphthalene	ND	0.00986	0.133	U
98-95-3	Nitrobenzene	ND	0.0226	0.133	U
621-64-7	n-Nitroso-di-n-propylamine	ND	0.00713	0.133	U

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ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1101-BLK1**		

Init/Final Vol:	15 g / 1 mL	Prep Date:	10/11/2018 08:03	File ID:	DS18769.D
		Prep Batch:	B8J1101	Analyzed:	10/11/2018 13:11
		Matrix:	Soil	Sequence:	S8J1213
		Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
86-30-6	n-Nitrosodiphenylamine	ND	0.0284	0.133	U
85-01-8	Phenanthrene	ND	0.0175	0.133	U
108-95-2	Phenol	ND	0.0108	0.133	U
129-00-0	Pyrene	ND	0.00979	0.133	U

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ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1101-BLK1**		

		Prep Date:	10/11/2018 08:03	File ID:	DS18769.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/2018 13:11
		Matrix:	Soil	Sequence:	S8J1213
		Prep Method:	Sonication MS		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg wet)	RT	Q
	Sum of Tentatively Identified Compounds	0.000		

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ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1101-BLK1**		

Init/Final Vol:	15 g / 1 mL	Prep Date:	10/11/2018 08:03	File ID:	DS18769.D
		Prep Batch:	B8J1101	Analyzed:	10/11/2018 13:11
		Matrix:	Soil	Sequence:	S8J1213
		Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.111	0.200	U
91-57-6	2-Methylnaphthalene	ND	0.0319	0.200	U
83-32-9	Acenaphthene	ND	0.00759	0.133	U
208-96-8	Acenaphthylene	ND	0.00463	0.133	U
120-12-7	Anthracene	ND	0.0193	0.133	U
56-55-3	Benzo(a)anthracene	ND	0.0134	0.133	U
50-32-8	Benzo(a)pyrene	ND	0.0232	0.133	U
205-99-2	Benzo(b)fluoranthene	ND	0.0187	0.133	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0108	0.133	U
207-08-9	Benzo(k)fluoranthene	ND	0.0153	0.133	U
218-01-9	Chrysene	ND	0.00912	0.133	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0132	0.133	U
206-44-0	Fluoranthene	ND	0.0125	0.133	U
86-73-7	Fluorene	ND	0.0111	0.133	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0143	0.133	U
91-20-3	Naphthalene	ND	0.00986	0.133	U
85-01-8	Phenanthrene	ND	0.0175	0.133	U
129-00-0	Pyrene	ND	0.00979	0.133	U

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Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18769.D Vial: 4
Acq On : 11 Oct 2018 13:11 Operator: GCH
Sample : B8J1101-BLK1 Inst : GCMS-D
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 13:39 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

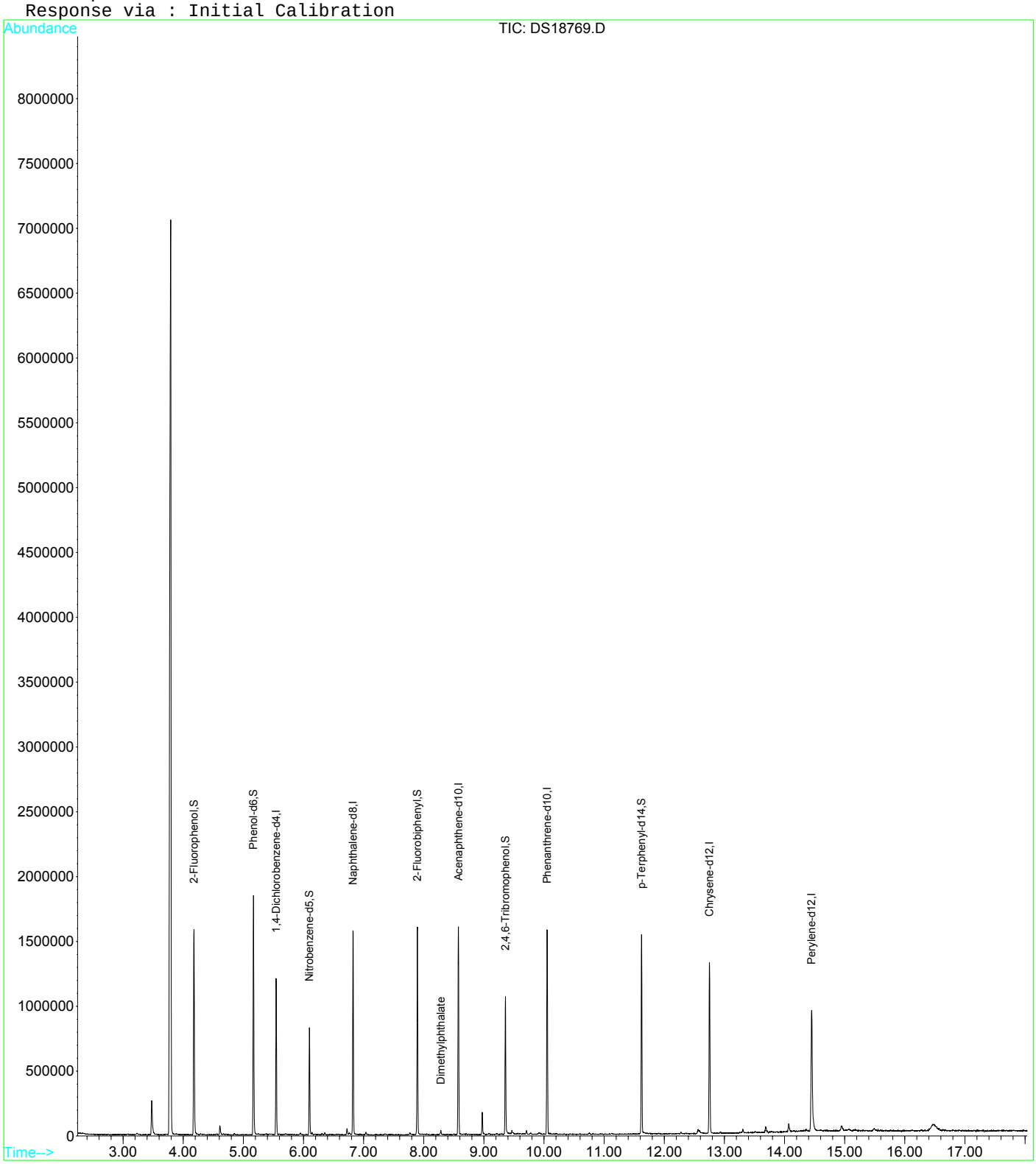
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	169814	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.83	136	643038	40.00	ug/kg	-0.06
39) Acenaphthene-d10	8.58	164	307744	40.00	ug/kg	-0.06
62) Phenanthrene-d10	10.05	188	545070	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	412629	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	408173	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	443335	76.16	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 76.16%			
8) Phenol-d6	5.17	99	576916	78.04	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 78.04%			
23) Nitrobenzene-d5	6.10	82	242418	40.51	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 81.02%			
44) 2-Fluorobiphenyl	7.90	172	433591	38.16	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 76.32%			
66) 2,4,6-Tribromophenol	9.36	330	79068	68.63	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 68.63%			
79) p-Terphenyl-d14	11.62	244	385999	40.93	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 81.86%			
Target Compounds						Qvalue
48) Dimethylphthalate	8.28	163	9408	0.86	ug/kg	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18769.D Vial: 4
Acq On : 11 Oct 2018 13:11 Operator: GCH
Sample : B8J1101-BLK1 Inst : GCMS-D
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 13:39 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18769.D 0802ABN.M Tue Oct 16 12:43:50 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18771.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 14:10
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	89.91	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.0355	0.222	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.0228	0.148	U
95-95-4	2,4,5-Trichlorophenol	ND	0.0201	0.148	U
88-06-2	2,4,6-Trichlorophenol	ND	0.00927	0.148	U
120-83-2	2,4-Dichlorophenol	ND	0.0149	0.148	U
105-67-9	2,4-Dimethylphenol	ND	0.0146	0.148	U
51-28-5	2,4-Dinitrophenol	ND	0.0214	0.742	U
121-14-2	2,4-Dinitrotoluene	ND	0.0158	0.148	U
606-20-2	2,6-Dinitrotoluene	ND	0.0354	0.148	U
91-58-7	2-Chloronaphthalene	ND	0.0170	0.148	U
95-57-8	2-Chlorophenol	ND	0.0196	0.148	U
91-57-6	2-Methylnaphthalene	ND	0.0355	0.222	U
95-48-7	2-Methylphenol	ND	0.0293	0.148	U
88-74-4	2-Nitroaniline	ND	0.0119	0.148	U
88-75-5	2-Nitrophenol	ND	0.0165	0.148	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.0156	0.148	U
106-44-5	3+4-Methylphenol	ND	0.0271	0.148	U
99-09-2	3-Nitroaniline	ND	0.0275	0.148	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.0279	0.370	U
101-55-3	4-Bromophenyl-phenyl ether	ND	0.0211	0.148	U
59-50-7	4-Chloro-3-methylphenol	ND	0.0234	0.148	U
106-47-8	4-Chloroaniline	ND	0.00518	0.148	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.00800	0.148	U
100-01-6	4-Nitroaniline	ND	0.0741	0.148	U
100-02-7	4-Nitrophenol	ND	0.00948	0.148	U
83-32-9	Acenaphthene	ND	0.00844	0.148	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18771.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 14:10
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	89.91	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
208-96-8	Acenaphthylene	ND	0.00515	0.148	U
98-86-2	Acetophenone	ND	0.0147	0.148	U
120-12-7	Anthracene	ND	0.0215	0.148	U
1912-24-9	Atrazine	ND	0.0139	0.148	U
100-52-7	Benzaldehyde	ND	0.0455	0.148	U
56-55-3	Benzo(a)anthracene	0.0995	0.0149	0.148	J
50-32-8	Benzo(a)pyrene	0.0887	0.0258	0.148	J
205-99-2	Benzo(b)fluoranthene	0.107	0.0208	0.148	J
191-24-2	Benzo(g,h,i)perylene	0.0702	0.0120	0.148	J
207-08-9	Benzo(k)fluoranthene	0.0788	0.0170	0.148	J
92-52-4	Biphenyl	ND	0.0130	0.148	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.0205	0.148	U
111-44-4	bis(2-chloroethyl)ether	ND	0.0162	0.148	U
108-60-1	bis(2-chloroisopropyl)ether	ND	0.0533	0.148	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	0.0296	0.148	U
85-68-7	Butylbenzylphthalate	ND	0.0135	0.148	U
105-60-2	Caprolactam	ND	0.0191	0.148	U
86-74-8	Carbazole	ND	0.0285	0.370	U
218-01-9	Chrysene	0.0909	0.0101	0.148	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.0147	0.148	U
132-64-9	Dibenzofuran	ND	0.00882	0.148	U
84-66-2	Diethylphthalate	ND	0.0287	0.148	U
131-11-3	Dimethylphthalate	ND	0.00919	0.148	U
84-74-2	Di-n-butylphthalate	ND	0.0605	0.148	U
117-84-0	Di-n-octylphthalate	ND	0.0304	0.148	U
206-44-0	Fluoranthene	0.167	0.0139	0.148	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18771.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 14:10
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	89.91	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
86-73-7	Fluorene	ND	0.0123	0.148	U
118-74-1	Hexachlorobenzene	ND	0.0194	0.148	U
87-68-3	Hexachlorobutadiene	ND	0.0711	0.148	U
77-47-4	Hexachlorocyclopentadiene	ND	0.0617	0.370	U
67-72-1	Hexachloroethane	ND	0.0162	0.148	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0610	0.0159	0.148	J
78-59-1	Isophorone	ND	0.00970	0.148	U
91-20-3	Naphthalene	ND	0.0110	0.148	U
98-95-3	Nitrobenzene	ND	0.0251	0.148	U
621-64-7	n-Nitroso-di-n-propylamine	ND	0.00793	0.148	U
86-30-6	n-Nitrosodiphenylamine	ND	0.0316	0.148	U
85-01-8	Phenanthrene	0.126	0.0195	0.148	J
108-95-2	Phenol	ND	0.0120	0.148	U
129-00-0	Pyrene	0.158	0.0109	0.148	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18771.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 14:10
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	89.91	Prep Method:	Sonication MS		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18771.D Vial: 6
Acq On : 11 Oct 2018 14:10 Operator: GCH
Sample : 8100452-01 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 15:13 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

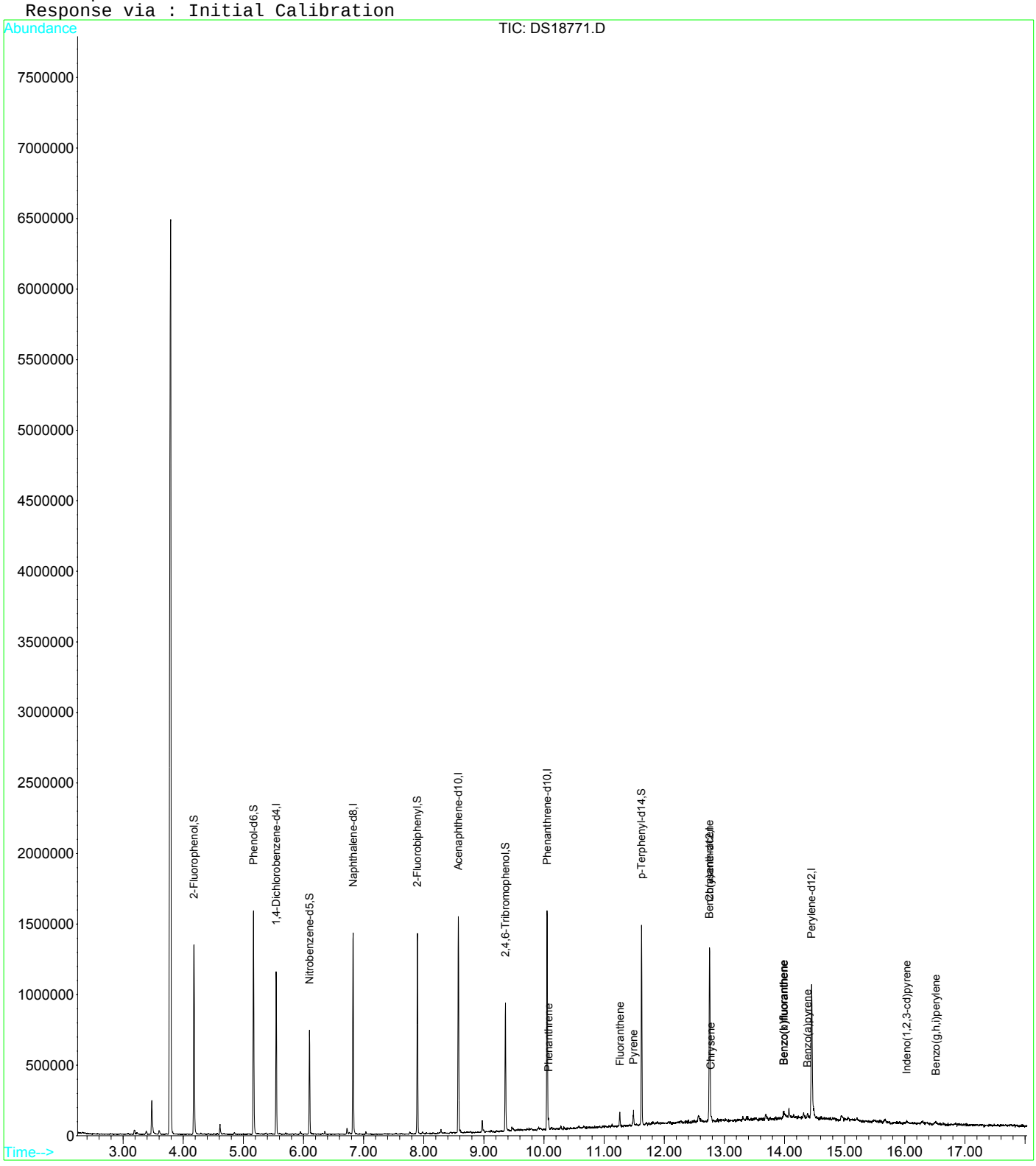
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	162070	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.83	136	608163	40.00	ug/kg	-0.06
39) Acenaphthene-d10	8.57	164	299587	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	519499	40.00	ug/kg	-0.07
76) Chrysene-d12	12.76	240	391750	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	379160	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	381348	68.64	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 68.64%			
8) Phenol-d6	5.17	99	508165	72.03	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 72.03%			
23) Nitrobenzene-d5	6.10	82	212205	37.49	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 74.98%			
44) 2-Fluorobiphenyl	7.90	172	386618	34.96	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 69.92%			
66) 2,4,6-Tribromophenol	9.36	330	70459	64.17	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 64.17%			
79) p-Terphenyl-d14	11.62	244	347430	38.80	ug/kg	-0.01
Spiked Amount 50.000	Range 29 - 110		Recovery = 77.60%			
Target Compounds						Qvalue
71) Phenanthrene	10.08	178	25294	1.70	ug/kg	96
75) Fluoranthene	11.26	202	35267	2.25	ug/kg	97
78) Pyrene	11.49	202	32004	2.13	ug/kg	94
81) Benzo(a)anthracene	12.74	228	17116	1.34	ug/kg	85
83) Chrysene	12.78	228	14951m	1.23	ug/kg	
87) Benzo(b)fluoranthene	13.99	252	15059m	1.44	ug/kg	
88) Benzo(k)fluoranthene	14.00	252	11305m	1.06	ug/kg	
89) Benzo(a)pyrene	14.39	252	12766	1.20	ug/kg#	89
90) Indeno(1,2,3-cd)pyrene	16.03	276	9646m	0.82	ug/kg	
92) Benzo(g,h,i)perylene	16.51	276	9349m	0.95	ug/kg	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18771.D Vial: 6
Acq On : 11 Oct 2018 14:10 Operator: GCH
Sample : 8100452-01 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 15:13 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18771.D 0802ABN.M Tue Oct 16 12:43:56 2018 SS Page 2

14 14.2.

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18772.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 14:38
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	92.54	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.120	0.216	U
91-57-6	2-Methylnaphthalene	ND	0.0345	0.216	U
83-32-9	Acenaphthene	ND	0.00820	0.144	U
208-96-8	Acenaphthylene	ND	0.00500	0.144	U
120-12-7	Anthracene	ND	0.0209	0.144	U
56-55-3	Benzo(a)anthracene	0.0754	0.0145	0.144	J
50-32-8	Benzo(a)pyrene	0.0733	0.0251	0.144	J
205-99-2	Benzo(b)fluoranthene	ND	0.0202	0.144	U
191-24-2	Benzo(g,h,i)perylene	0.0911	0.0117	0.144	J
207-08-9	Benzo(k)fluoranthene	0.106	0.0165	0.144	J
218-01-9	Chrysene	0.0911	0.00985	0.144	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.0143	0.144	U
206-44-0	Fluoranthene	0.120	0.0135	0.144	J
86-73-7	Fluorene	ND	0.0120	0.144	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0155	0.144	U
91-20-3	Naphthalene	ND	0.0107	0.144	U
85-01-8	Phenanthrene	0.0544	0.0189	0.144	J
129-00-0	Pyrene	0.130	0.0106	0.144	J

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18772.D Vial: 7
Acq On : 11 Oct 2018 14:38 Operator: GCH
Sample : 8100452-02 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 15:14 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

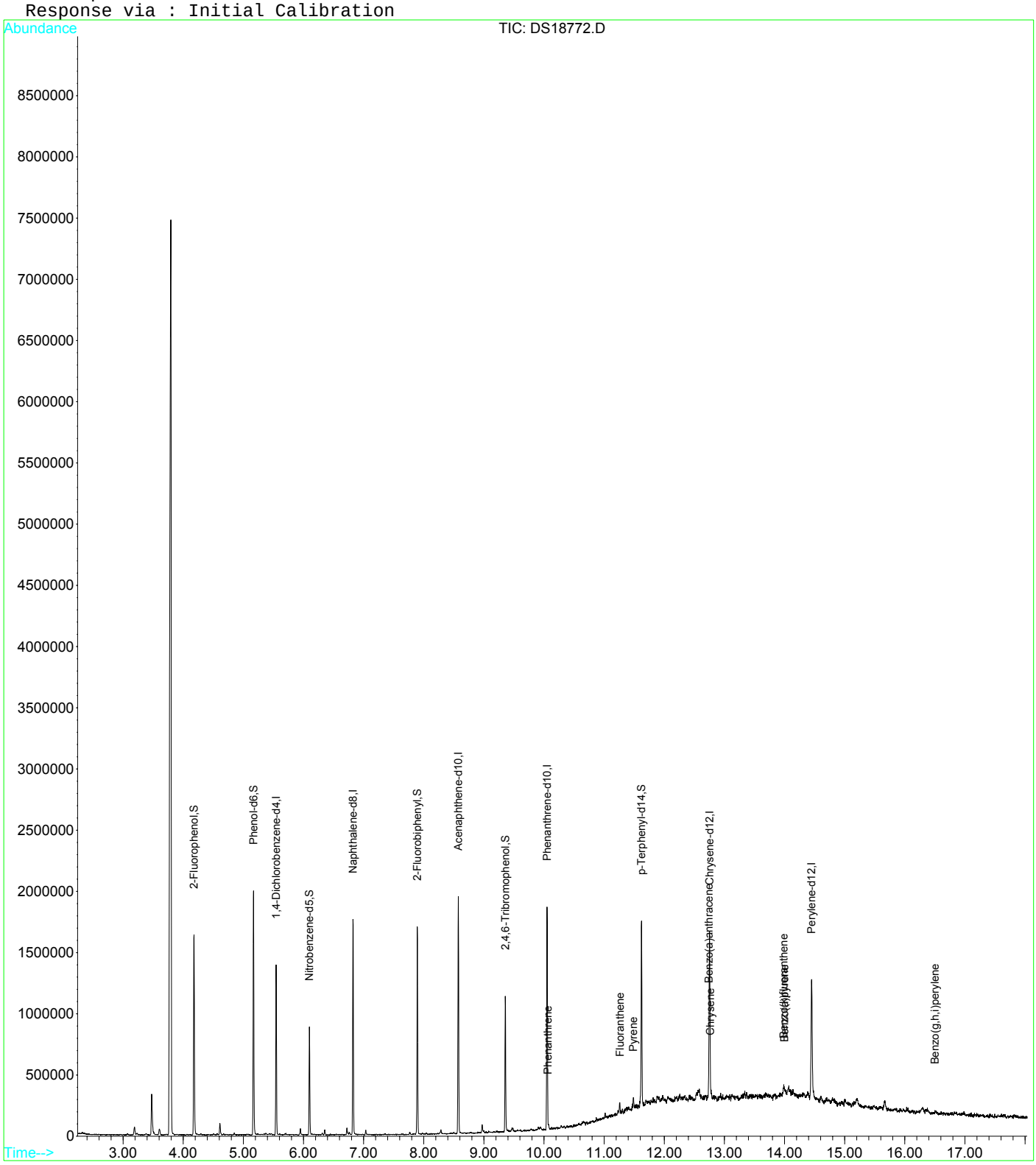
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	182818	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.82	136	695780	40.00	ug/kg	-0.07
39) Acenaphthene-d10	8.57	164	358130	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	600167	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	442655	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	426788	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	449804	71.78	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 71.78%			
8) Phenol-d6	5.17	99	588966	74.01	ug/kg	-0.07
Spiked Amount 100.000	Range 20 - 88		Recovery = 74.01%			
23) Nitrobenzene-d5	6.10	82	249646	38.55	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 77.10%			
44) 2-Fluorobiphenyl	7.89	172	446223	33.75	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 67.50%			
66) 2,4,6-Tribromophenol	9.36	330	79687	62.82	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 62.82%			
79) p-Terphenyl-d14	11.62	244	378142	37.38	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 74.76%			
Target Compounds						Qvalue
71) Phenanthrene	10.07	178	12989	0.76	ug/kg	92
75) Fluoranthene	11.26	202	30146	1.67	ug/kg	93
78) Pyrene	11.49	202	30527	1.80	ug/kg	99
81) Benzo(a)anthracene	12.74	228	15089m	1.05	ug/kg	
83) Chrysene	12.78	228	17418m	1.26	ug/kg	
88) Benzo(k)fluoranthene	13.98	252	17607m	1.47	ug/kg	
89) Benzo(a)pyrene	14.01	252	12220m	1.02	ug/kg	
92) Benzo(g,h,i)perylene	16.51	276	14061m	1.26	ug/kg	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18772.D Vial: 7
Acq On : 11 Oct 2018 14:38 Operator: GCH
Sample : 8100452-02 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 15:14 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18772.D 0802ABN.M Tue Oct 16 12:43:58 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-2B**
Lab Sample ID: **8100452-03**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18773.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:07
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	92.25	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.120	0.217	U
91-57-6	2-Methylnaphthalene	ND	0.0346	0.217	U
83-32-9	Acenaphthene	ND	0.00823	0.144	U
208-96-8	Acenaphthylene	ND	0.00502	0.144	U
120-12-7	Anthracene	ND	0.0209	0.144	U
56-55-3	Benzo(a)anthracene	0.0876	0.0145	0.144	J
50-32-8	Benzo(a)pyrene	0.0814	0.0251	0.144	J
205-99-2	Benzo(b)fluoranthene	0.0987	0.0203	0.144	J
191-24-2	Benzo(g,h,i)perylene	0.0663	0.0117	0.144	J
207-08-9	Benzo(k)fluoranthene	0.0460	0.0166	0.144	J
218-01-9	Chrysene	0.0730	0.00989	0.144	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.0143	0.144	U
206-44-0	Fluoranthene	0.153	0.0135	0.144	
86-73-7	Fluorene	ND	0.0120	0.144	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0155	0.144	U
91-20-3	Naphthalene	ND	0.0107	0.144	U
85-01-8	Phenanthrene	0.114	0.0190	0.144	J
129-00-0	Pyrene	0.137	0.0106	0.144	J

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18773.D Vial: 8
Acq On : 11 Oct 2018 15:07 Operator: GCH
Sample : 8100452-03 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:06 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	167877	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.82	136	627978	40.00	ug/kg	-0.07
39) Acenaphthene-d10	8.57	164	308607	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	531137	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	397045	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	381767	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	432315	75.13	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 75.13%			
8) Phenol-d6	5.17	99	560231	76.66	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 76.66%			
23) Nitrobenzene-d5	6.10	82	227128	38.86	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 77.72%			
44) 2-Fluorobiphenyl	7.90	172	426186	37.41	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 74.82%			
66) 2,4,6-Tribromophenol	9.36	330	79506	70.82	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 70.82%			
79) p-Terphenyl-d14	11.62	244	365684	40.30	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 80.60%			

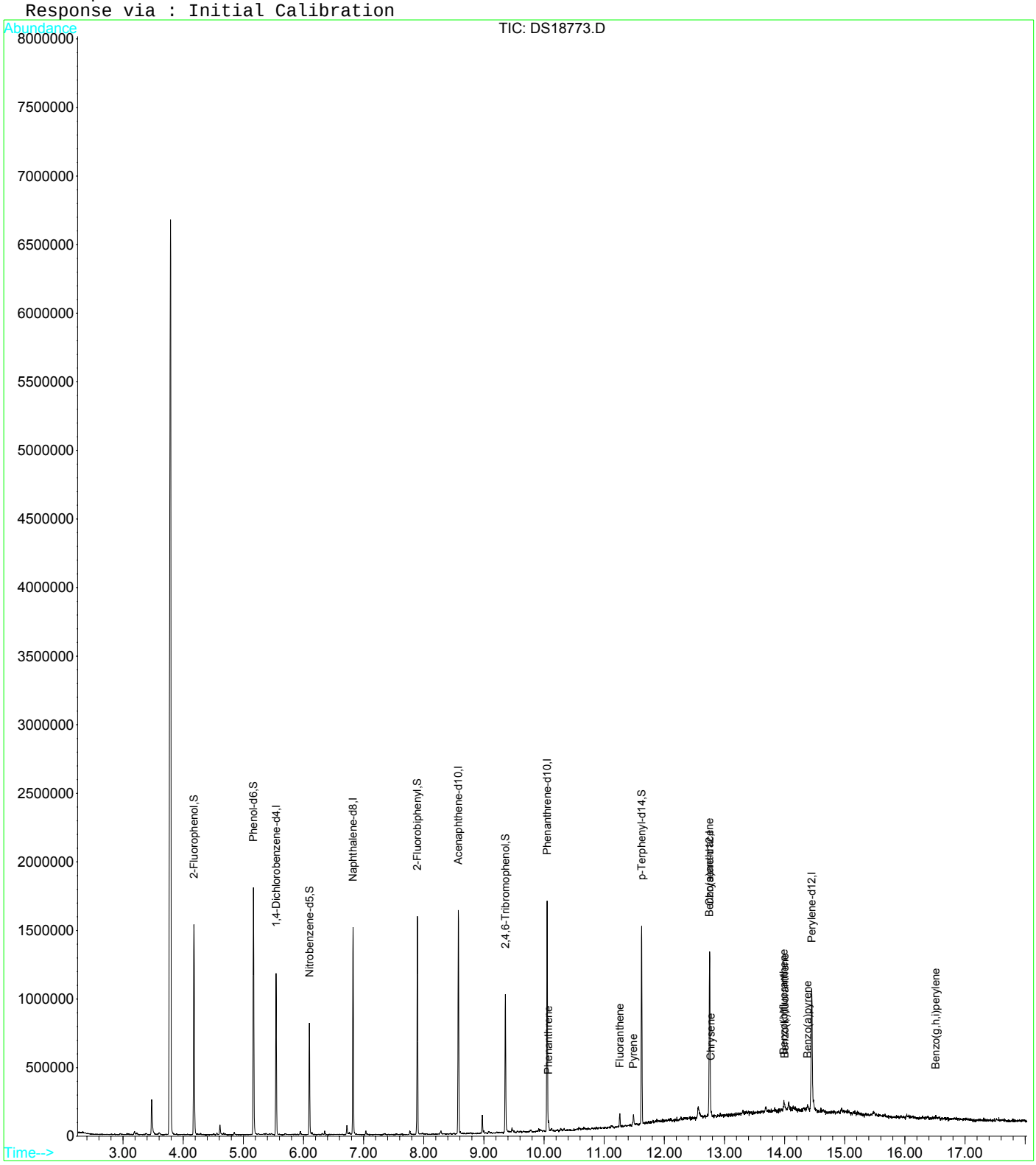
Target Compounds						Qvalue
71) Phenanthrene	10.07	178	24099	1.58	ug/kg	95
75) Fluoranthene	11.26	202	33875	2.11	ug/kg	96
78) Pyrene	11.49	202	28837	1.90	ug/kg	98
81) Benzo(a)anthracene	12.74	228	15674m	1.21	ug/kg	
83) Chrysene	12.78	228	12491	1.01	ug/kg	97
87) Benzo(b)fluoranthene	13.99	252	14397	1.37	ug/kg	82
88) Benzo(k)fluoranthene	14.01	252	6816m	0.64	ug/kg	
89) Benzo(a)pyrene	14.38	252	12104	1.13	ug/kg	84
92) Benzo(g,h,i)perylene	16.51	276	9119m	0.92	ug/kg	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18773.D Vial: 8
Acq On : 11 Oct 2018 15:07 Operator: GCH
Sample : 8100452-03 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:06 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-3B**
Lab Sample ID: **8100452-04**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18774.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:35
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	91.33	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.122	0.219	U
91-57-6	2-Methylnaphthalene	ND	0.0349	0.219	U
83-32-9	Acenaphthene	ND	0.00831	0.146	U
208-96-8	Acenaphthylene	ND	0.00507	0.146	U
120-12-7	Anthracene	ND	0.0211	0.146	U
56-55-3	Benzo(a)anthracene	ND	0.0147	0.146	U
50-32-8	Benzo(a)pyrene	ND	0.0254	0.146	U
205-99-2	Benzo(b)fluoranthene	ND	0.0205	0.146	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0118	0.146	U
207-08-9	Benzo(k)fluoranthene	ND	0.0168	0.146	U
218-01-9	Chrysene	ND	0.00999	0.146	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0145	0.146	U
206-44-0	Fluoranthene	ND	0.0137	0.146	U
86-73-7	Fluorene	ND	0.0122	0.146	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0157	0.146	U
91-20-3	Naphthalene	ND	0.0108	0.146	U
85-01-8	Phenanthrene	ND	0.0192	0.146	U
129-00-0	Pyrene	ND	0.0107	0.146	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18774.D Vial: 9
Acq On : 11 Oct 2018 15:35 Operator: GCH
Sample : 8100452-04 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:06 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	162627	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.82	136	625040	40.00	ug/kg	-0.07
39) Acenaphthene-d10	8.57	164	296500	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	521121	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	383151	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	361524	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	373953	67.08	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 67.08%			
8) Phenol-d6	5.17	99	499782	70.60	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 70.60%			
23) Nitrobenzene-d5	6.10	82	214431	36.86	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 73.72%			
44) 2-Fluorobiphenyl	7.90	172	381180	34.82	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 69.64%			
66) 2,4,6-Tribromophenol	9.36	330	69643	63.23	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 63.23%			
79) p-Terphenyl-d14	11.62	244	324130	37.01	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 74.02%			

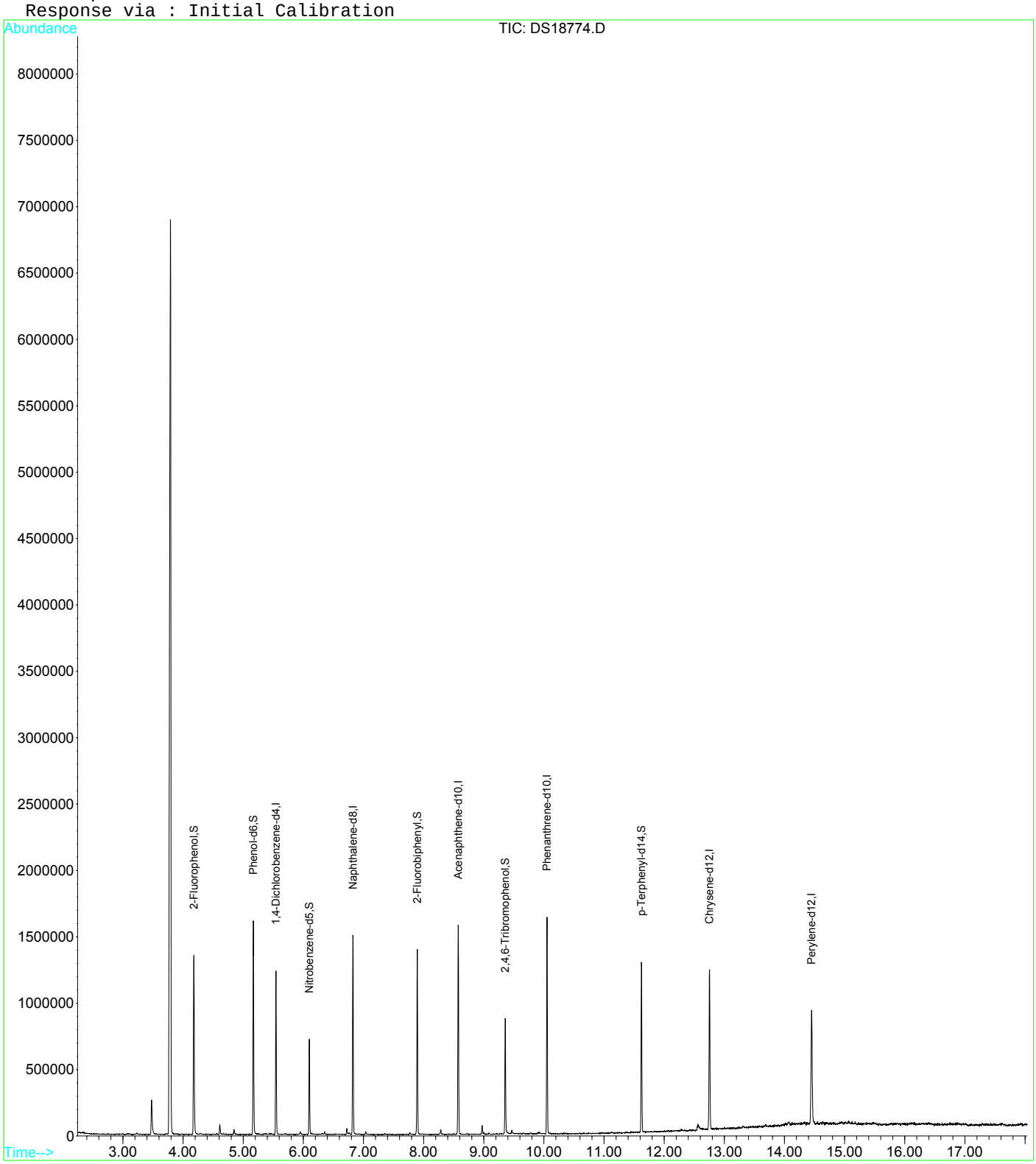
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
DS18774.D 0802ABN.M Tue Oct 16 12:44:02 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18774.D Vial: 9
Acq On : 11 Oct 2018 15:35 Operator: GCH
Sample : 8100452-04 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:06 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18774.D 0802ABN.M Tue Oct 16 12:44:02 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/11/18 08:03	File ID:	DS18775.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:04
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	92.00	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.121	0.217	U
91-57-6	2-Methylnaphthalene	ND	0.0347	0.217	U
83-32-9	Acenaphthene	ND	0.00825	0.145	U
208-96-8	Acenaphthylene	ND	0.00503	0.145	U
120-12-7	Anthracene	ND	0.0210	0.145	U
56-55-3	Benzo(a)anthracene	ND	0.0146	0.145	U
50-32-8	Benzo(a)pyrene	ND	0.0252	0.145	U
205-99-2	Benzo(b)fluoranthene	ND	0.0203	0.145	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0117	0.145	U
207-08-9	Benzo(k)fluoranthene	ND	0.0166	0.145	U
218-01-9	Chrysene	ND	0.00991	0.145	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0143	0.145	U
206-44-0	Fluoranthene	ND	0.0136	0.145	U
86-73-7	Fluorene	ND	0.0121	0.145	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0155	0.145	U
91-20-3	Naphthalene	ND	0.0107	0.145	U
85-01-8	Phenanthrene	ND	0.0190	0.145	U
129-00-0	Pyrene	ND	0.0106	0.145	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18775.D Vial: 10
Acq On : 11 Oct 2018 16:04 Operator: GCH
Sample : 8100452-05 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:55 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.54	152	159249	40.00	ug/kg	-0.07
22) Naphthalene-d8	6.83	136	609200	40.00	ug/kg	-0.07
39) Acenaphthene-d10	8.57	164	307467	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	538317	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	389183	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	380947	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	375745	68.83	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 68.83%			
8) Phenol-d6	5.17	99	505436	72.91	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 72.91%			
23) Nitrobenzene-d5	6.10	82	201356	35.52	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 71.04%			
44) 2-Fluorobiphenyl	7.89	172	387132	34.11	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 68.22%			
66) 2,4,6-Tribromophenol	9.36	330	68356	60.08	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 60.08%			
79) p-Terphenyl-d14	11.62	244	329459	37.04	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 74.08%			

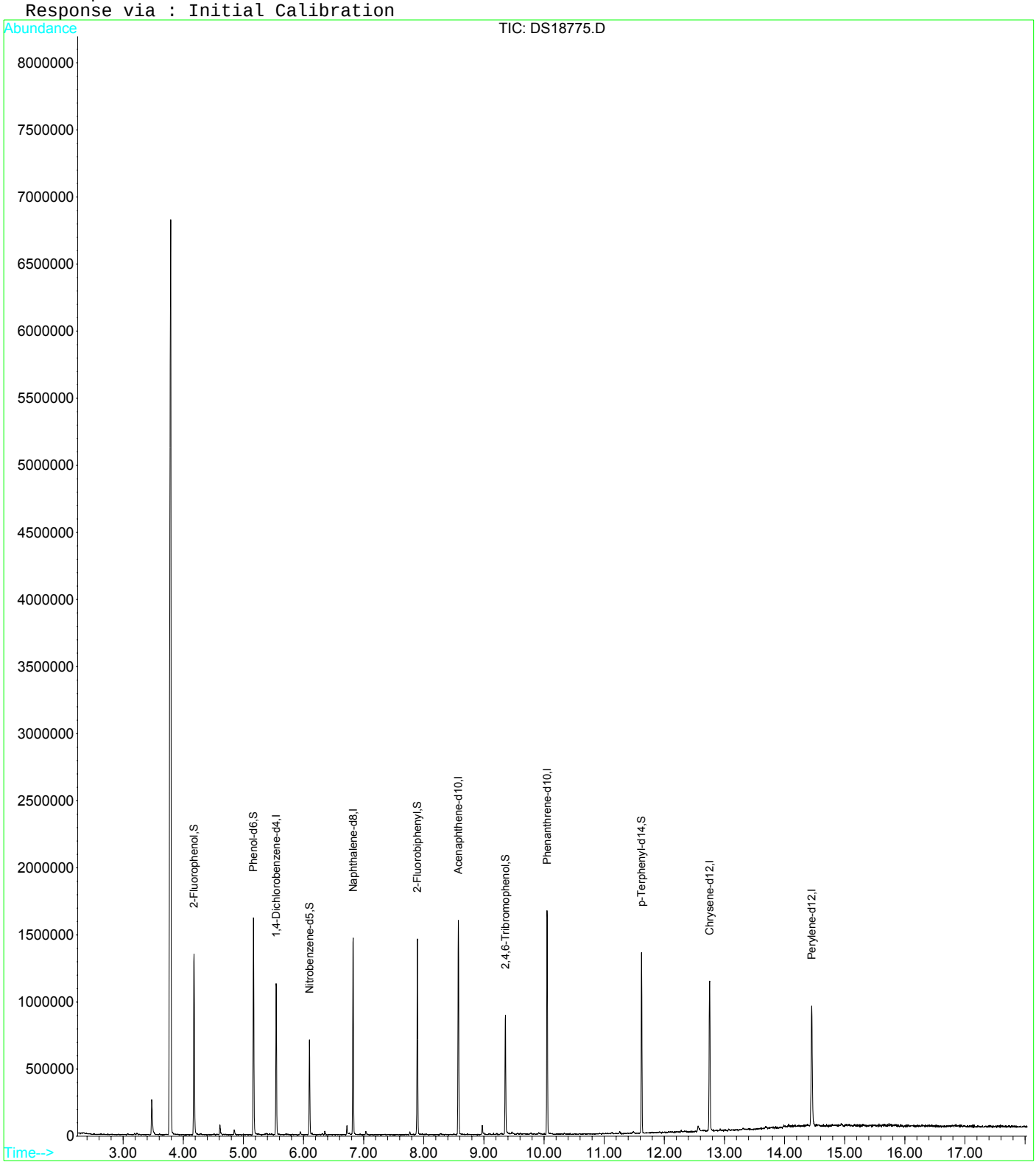
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18775.D Vial: 10
Acq On : 11 Oct 2018 16:04 Operator: GCH
Sample : 8100452-05 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:55 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18775.D 0802ABN.M Tue Oct 16 12:44:04 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/11/18 08:03	File ID:	DS18776.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:32
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	87.70	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.0364	0.228	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.0234	0.152	U
95-95-4	2,4,5-Trichlorophenol	ND	0.0206	0.152	U
88-06-2	2,4,6-Trichlorophenol	ND	0.00950	0.152	U
120-83-2	2,4-Dichlorophenol	ND	0.0153	0.152	U
105-67-9	2,4-Dimethylphenol	ND	0.0149	0.152	U
51-28-5	2,4-Dinitrophenol	ND	0.0219	0.761	U
121-14-2	2,4-Dinitrotoluene	ND	0.0162	0.152	U
606-20-2	2,6-Dinitrotoluene	ND	0.0363	0.152	U
91-58-7	2-Chloronaphthalene	ND	0.0174	0.152	U
95-57-8	2-Chlorophenol	ND	0.0201	0.152	U
91-57-6	2-Methylnaphthalene	ND	0.0364	0.228	U
95-48-7	2-Methylphenol	ND	0.0300	0.152	U
88-74-4	2-Nitroaniline	ND	0.0122	0.152	U
88-75-5	2-Nitrophenol	ND	0.0169	0.152	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.0160	0.152	U
106-44-5	3+4-Methylphenol	ND	0.0278	0.152	U
99-09-2	3-Nitroaniline	ND	0.0282	0.152	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.0286	0.380	U
101-55-3	4-Bromophenyl-phenyl ether	ND	0.0217	0.152	U
59-50-7	4-Chloro-3-methylphenol	ND	0.0239	0.152	U
106-47-8	4-Chloroaniline	ND	0.00531	0.152	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.00820	0.152	U
100-01-6	4-Nitroaniline	ND	0.0759	0.152	U
100-02-7	4-Nitrophenol	ND	0.00971	0.152	U
83-32-9	Acenaphthene	ND	0.00865	0.152	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/11/18 08:03	File ID:	DS18776.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:32
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	87.70	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
208-96-8	Acenaphthylene	ND	0.00528	0.152	U
98-86-2	Acetophenone	ND	0.0151	0.152	U
120-12-7	Anthracene	ND	0.0220	0.152	U
1912-24-9	Atrazine	ND	0.0143	0.152	U
100-52-7	Benzaldehyde	ND	0.0466	0.152	U
56-55-3	Benzo(a)anthracene	ND	0.0153	0.152	U
50-32-8	Benzo(a)pyrene	ND	0.0265	0.152	U
205-99-2	Benzo(b)fluoranthene	ND	0.0213	0.152	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0123	0.152	U
207-08-9	Benzo(k)fluoranthene	ND	0.0174	0.152	U
92-52-4	Biphenyl	ND	0.0133	0.152	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.0210	0.152	U
111-44-4	bis(2-chloroethyl)ether	ND	0.0166	0.152	U
108-60-1	bis(2-chloroisopropyl)ether	ND	0.0546	0.152	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	0.0303	0.152	U
85-68-7	Butylbenzylphthalate	ND	0.0138	0.152	U
105-60-2	Caprolactam	ND	0.0196	0.152	U
86-74-8	Carbazole	ND	0.0292	0.380	U
218-01-9	Chrysene	ND	0.0104	0.152	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0151	0.152	U
132-64-9	Dibenzofuran	ND	0.00904	0.152	U
84-66-2	Diethylphthalate	ND	0.0294	0.152	U
131-11-3	Dimethylphthalate	0.0721	0.00942	0.152	J
84-74-2	Di-n-butylphthalate	ND	0.0620	0.152	U
117-84-0	Di-n-octylphthalate	ND	0.0311	0.152	U
206-44-0	Fluoranthene	ND	0.0143	0.152	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/11/18 08:03	File ID:	DS18776.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:32
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	87.70	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
86-73-7	Fluorene	ND	0.0127	0.152	U
118-74-1	Hexachlorobenzene	ND	0.0198	0.152	U
87-68-3	Hexachlorobutadiene	ND	0.0729	0.152	U
77-47-4	Hexachlorocyclopentadiene	ND	0.0633	0.380	U
67-72-1	Hexachloroethane	ND	0.0166	0.152	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0163	0.152	U
78-59-1	Isophorone	ND	0.00994	0.152	U
91-20-3	Naphthalene	ND	0.0112	0.152	U
98-95-3	Nitrobenzene	ND	0.0258	0.152	U
621-64-7	n-Nitroso-di-n-propylamine	ND	0.00813	0.152	U
86-30-6	n-Nitrosodiphenylamine	ND	0.0324	0.152	U
85-01-8	Phenanthrene	ND	0.0200	0.152	U
108-95-2	Phenol	ND	0.0123	0.152	U
129-00-0	Pyrene	ND	0.0112	0.152	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/11/18 08:03	File ID:	DS18776.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:32
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	87.70	Prep Method:	Sonication MS		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18776.D Vial: 11
Acq On : 11 Oct 2018 16:32 Operator: GCH
Sample : 8100452-06 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:55 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

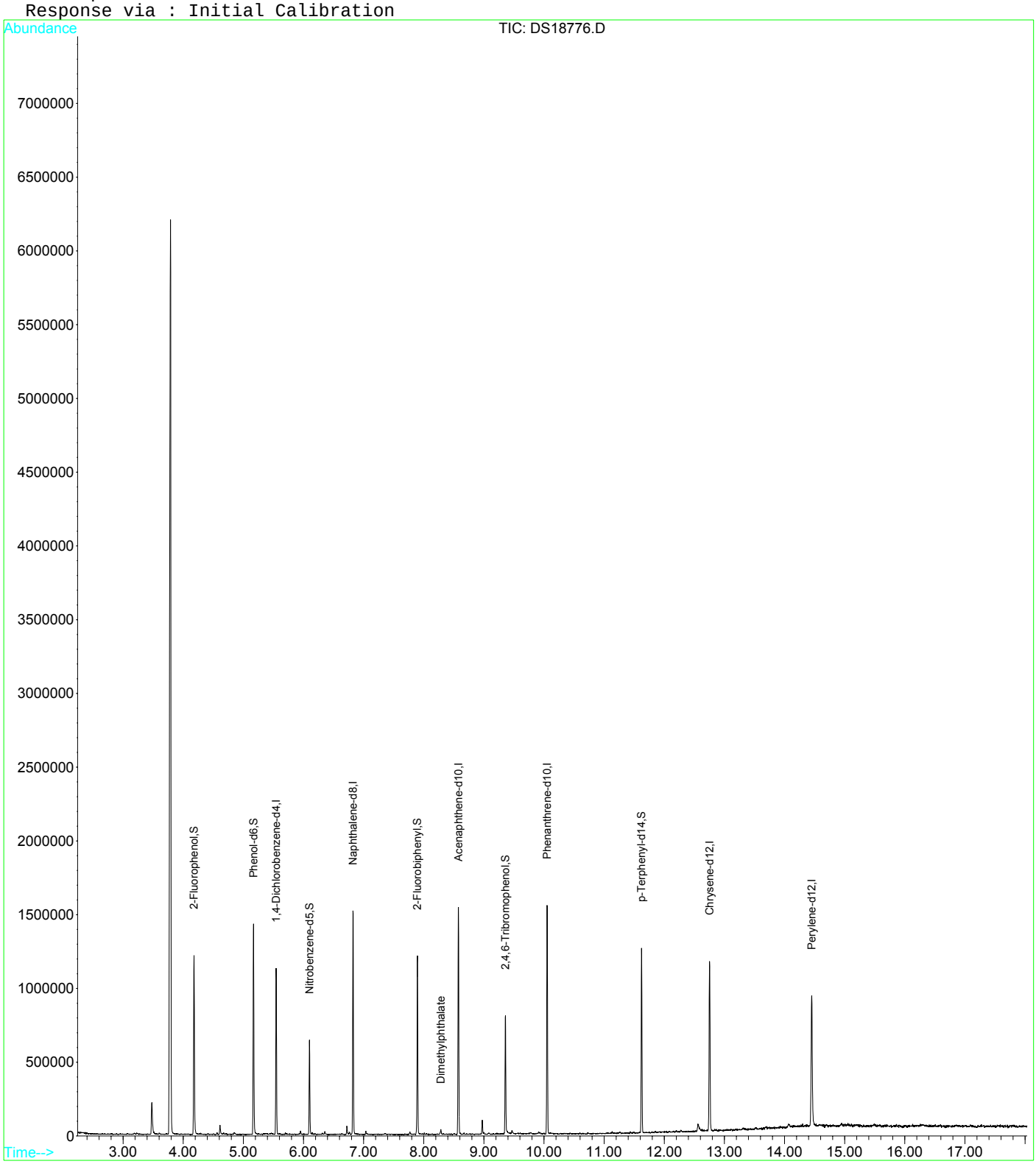
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	159499	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.83	136	607328	40.00	ug/kg	-0.06
39) Acenaphthene-d10	8.57	164	297278	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	519141	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	384901	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	374104	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	333649	61.03	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 61.03%			
8) Phenol-d6	5.17	99	449574	64.75	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 64.75%			
23) Nitrobenzene-d5	6.10	82	181211	32.06	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 64.12%			
44) 2-Fluorobiphenyl	7.90	172	334071	30.44	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 60.88%			
66) 2,4,6-Tribromophenol	9.36	330	61158	55.74	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 55.74%			
79) p-Terphenyl-d14	11.62	244	310860	35.34	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 70.68%			
Target Compounds						Qvalue
48) Dimethylphthalate	8.28	163	10007	0.95	ug/kg	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18776.D Vial: 11
Acq On : 11 Oct 2018 16:32 Operator: GCH
Sample : 8100452-06 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:55 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18776.D 0802ABN.M Tue Oct 16 12:44:06 2018 SS Page 2

14 14.2.

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/11/18 08:03	File ID:	DS18777.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 17:01
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	91.36	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.122	0.219	U
91-57-6	2-Methylnaphthalene	ND	0.0349	0.219	U
83-32-9	Acenaphthene	ND	0.00831	0.146	U
208-96-8	Acenaphthylene	ND	0.00507	0.146	U
120-12-7	Anthracene	ND	0.0211	0.146	U
56-55-3	Benzo(a)anthracene	0.133	0.0147	0.146	J
50-32-8	Benzo(a)pyrene	0.105	0.0254	0.146	J
205-99-2	Benzo(b)fluoranthene	0.169	0.0205	0.146	
191-24-2	Benzo(g,h,i)perylene	0.124	0.0118	0.146	J
207-08-9	Benzo(k)fluoranthene	0.106	0.0167	0.146	J
218-01-9	Chrysene	0.134	0.00998	0.146	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.0144	0.146	U
206-44-0	Fluoranthene	0.193	0.0137	0.146	
86-73-7	Fluorene	ND	0.0122	0.146	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0157	0.146	U
91-20-3	Naphthalene	ND	0.0108	0.146	U
85-01-8	Phenanthrene	0.0964	0.0192	0.146	J
129-00-0	Pyrene	0.184	0.0107	0.146	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18777.D Vial: 12
Acq On : 11 Oct 2018 17:01 Operator: GCH
Sample : 8100452-07 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 17:23 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	174325	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.83	136	649764	40.00	ug/kg	-0.06
39) Acenaphthene-d10	8.57	164	323492	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	554925	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	419384	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	388875	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	405659	67.89	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 67.89%			
8) Phenol-d6	5.17	99	544457	71.75	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 71.75%			
23) Nitrobenzene-d5	6.10	82	225533	37.30	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 74.60%			
44) 2-Fluorobiphenyl	7.90	172	419126	35.10	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 70.20%			
66) 2,4,6-Tribromophenol	9.36	330	75193	64.11	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 64.11%			
79) p-Terphenyl-d14	11.62	244	352232	36.75	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 73.50%			

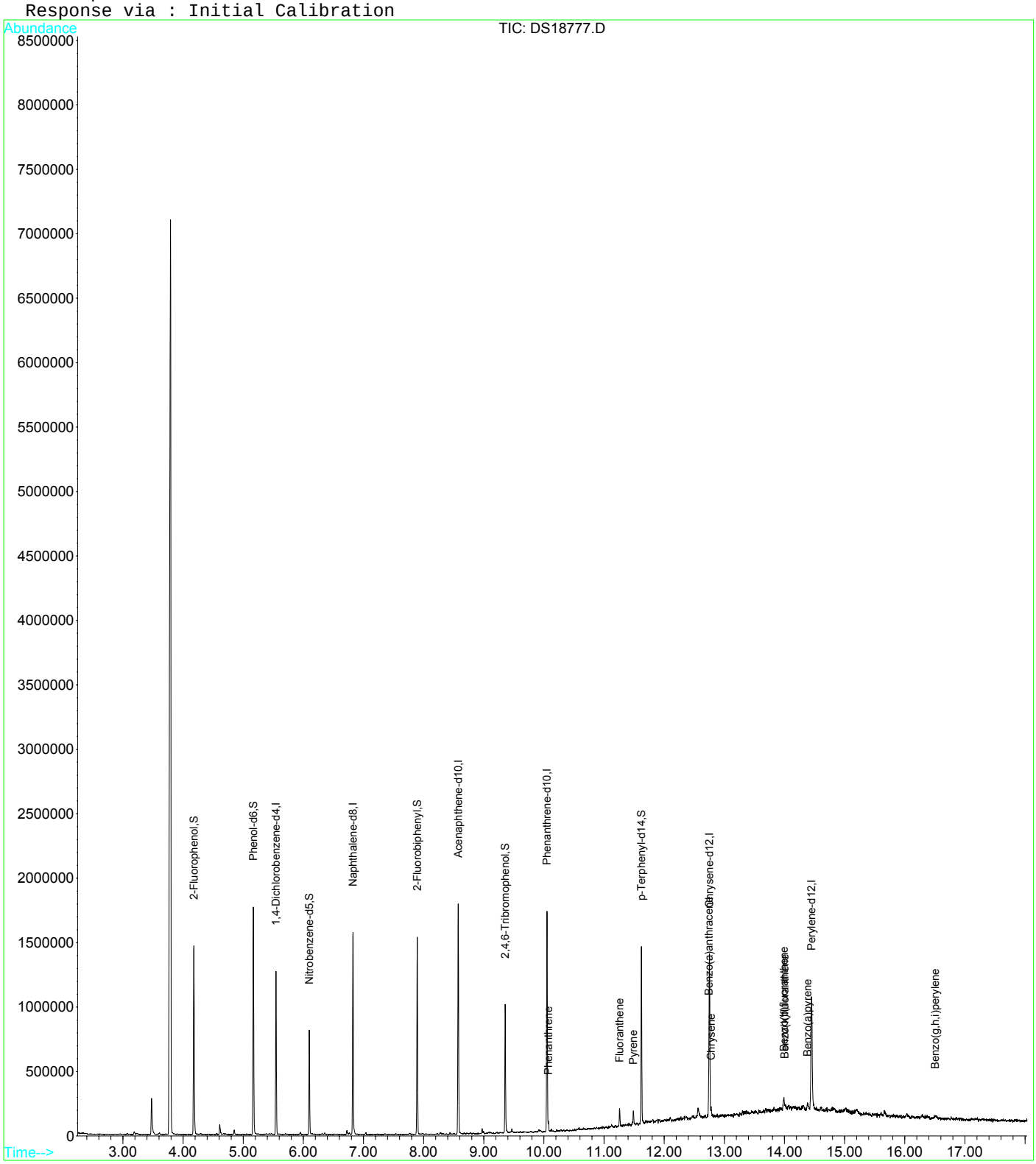
Target Compounds						Qvalue
71) Phenanthrene	10.08	178	21016	1.32	ug/kg	93
75) Fluoranthene	11.26	202	44262	2.64	ug/kg	96
78) Pyrene	11.49	202	40417	2.52	ug/kg	98
81) Benzo(a)anthracene	12.74	228	24823	1.82	ug/kg	81
83) Chrysene	12.78	228	24015	1.84	ug/kg	92
87) Benzo(b)fluoranthene	13.99	252	24866	2.32	ug/kg#	82
88) Benzo(k)fluoranthene	14.01	252	15919m	1.46	ug/kg	
89) Benzo(a)pyrene	14.38	252	15721	1.44	ug/kg	86
92) Benzo(g,h,i)perylene	16.51	276	17201m	1.70	ug/kg	

(#) = qualifier out of range (m) = manual integration
DS18777.D 0802ABN.M Tue Oct 16 12:44:08 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18777.D Vial: 12
Acq On : 11 Oct 2018 17:01 Operator: GCH
Sample : 8100452-07 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 17:23 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18777.D 0802ABN.M Tue Oct 16 12:44:08 2018 SS Page 2

14 14.2.

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 08:03	File ID:	DS18778.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 17:29
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	89.59	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.124	0.223	U
91-57-6	2-Methylnaphthalene	ND	0.0356	0.223	U
83-32-9	Acenaphthene	ND	0.00847	0.148	U
208-96-8	Acenaphthylene	ND	0.00517	0.148	U
120-12-7	Anthracene	ND	0.0215	0.148	U
56-55-3	Benzo(a)anthracene	ND	0.0150	0.148	U
50-32-8	Benzo(a)pyrene	ND	0.0259	0.148	U
205-99-2	Benzo(b)fluoranthene	ND	0.0209	0.148	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0121	0.148	U
207-08-9	Benzo(k)fluoranthene	ND	0.0171	0.148	U
218-01-9	Chrysene	ND	0.0102	0.148	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0147	0.148	U
206-44-0	Fluoranthene	ND	0.0140	0.148	U
86-73-7	Fluorene	ND	0.0124	0.148	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0160	0.148	U
91-20-3	Naphthalene	ND	0.0110	0.148	U
85-01-8	Phenanthrene	ND	0.0195	0.148	U
129-00-0	Pyrene	ND	0.0109	0.148	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18778.D Vial: 13
Acq On : 11 Oct 2018 17:29 Operator: GCH
Sample : 8100452-08 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 17:56 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.54	152	160052	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.83	136	608878	40.00	ug/kg	-0.06
39) Acenaphthene-d10	8.57	164	294400	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	519881	40.00	ug/kg	-0.07
76) Chrysene-d12	12.76	240	381925	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	375896	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	397722	72.49	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 72.49%			
8) Phenol-d6	5.17	99	538634	77.31	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 77.31%			
23) Nitrobenzene-d5	6.10	82	217854	38.45	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 76.90%			
44) 2-Fluorobiphenyl	7.90	172	420201	38.66	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 77.32%			
66) 2,4,6-Tribromophenol	9.36	330	73752	67.12	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 67.12%			
79) p-Terphenyl-d14	11.62	244	352558	40.39	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 80.78%			

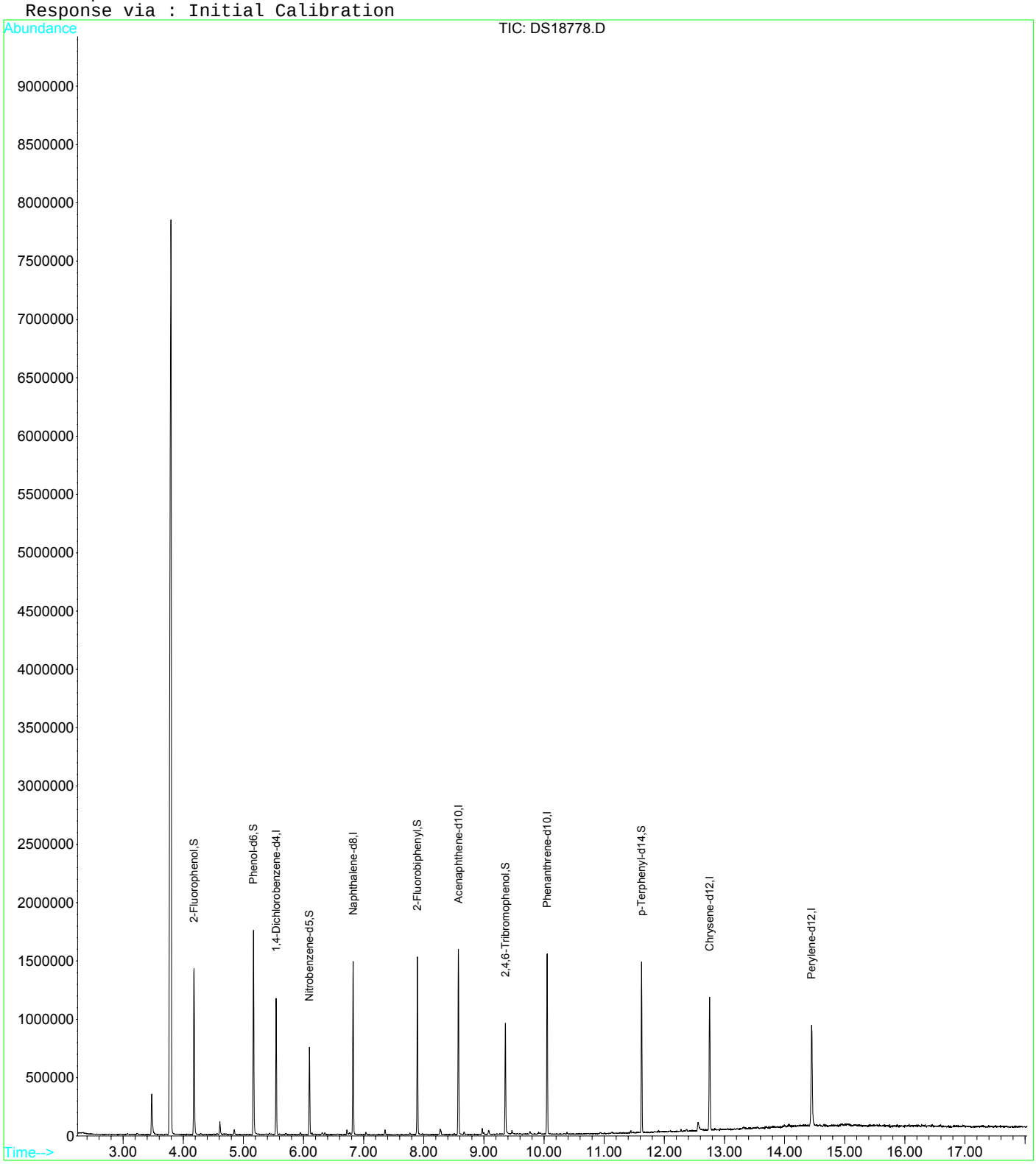
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
DS18778.D 0802ABN.M Tue Oct 16 12:44:10 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18778.D Vial: 13
Acq On : 11 Oct 2018 17:29 Operator: GCH
Sample : 8100452-08 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 17:56 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18778.D 0802ABN.M Tue Oct 16 12:44:10 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-2B**
Lab Sample ID: **8100452-09**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:30	Prep Date:	10/11/18 08:03	File ID:	AS07401.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 17:26
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	91.55	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.121	0.218	U
91-57-6	2-Methylnaphthalene	ND	0.0348	0.218	U
83-32-9	Acenaphthene	ND	0.00829	0.145	U
208-96-8	Acenaphthylene	ND	0.00506	0.145	U
120-12-7	Anthracene	ND	0.0211	0.145	U
56-55-3	Benzo(a)anthracene	ND	0.0146	0.145	U
50-32-8	Benzo(a)pyrene	ND	0.0253	0.145	U
205-99-2	Benzo(b)fluoranthene	ND	0.0204	0.145	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0118	0.145	U
207-08-9	Benzo(k)fluoranthene	ND	0.0167	0.145	U
218-01-9	Chrysene	ND	0.00996	0.145	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0144	0.145	U
206-44-0	Fluoranthene	ND	0.0137	0.145	U
86-73-7	Fluorene	ND	0.0121	0.145	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0156	0.145	U
91-20-3	Naphthalene	ND	0.0108	0.145	U
85-01-8	Phenanthrene	ND	0.0191	0.145	U
129-00-0	Pyrene	ND	0.0107	0.145	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07401.D Vial: 9
Acq On : 11 Oct 2018 17:26 Operator: GCH
Sample : 8100452-09 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 17:57 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	148181	40.00	ug/kg	0.00
21) Naphthalene-d8	7.54	136	560064	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.31	164	296470	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	568102	40.00	ug/kg	0.00
75) Chrysene-d12	13.67	240	628942	40.00	ug/kg	0.00
84) Perylene-d12	15.76	264	651720	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.97	112	275527	66.92	ug/kg	-0.03
Spiked Amount 100.000	Range 18 - 82		Recovery = 66.92%			
7) Phenol-d6	5.88	99	326363	66.98	ug/kg	0.00
Spiked Amount 100.000	Range 20 - 88		Recovery = 66.98%			
22) Nitrobenzene-d5	6.81	82	145665	38.52	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 100		Recovery = 77.04%			
43) 2-Fluorobiphenyl	8.61	172	381724	32.55	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 105		Recovery = 65.10%			
65) 2,4,6-Tribromophenol	10.10	330	120099	71.92	ug/kg	-0.01
Spiked Amount 100.000	Range 24 - 115		Recovery = 71.92%			
78) p-Terphenyl-d14	12.40	244	532800	34.04	ug/kg	0.01
Spiked Amount 50.000	Range 29 - 110		Recovery = 68.08%			

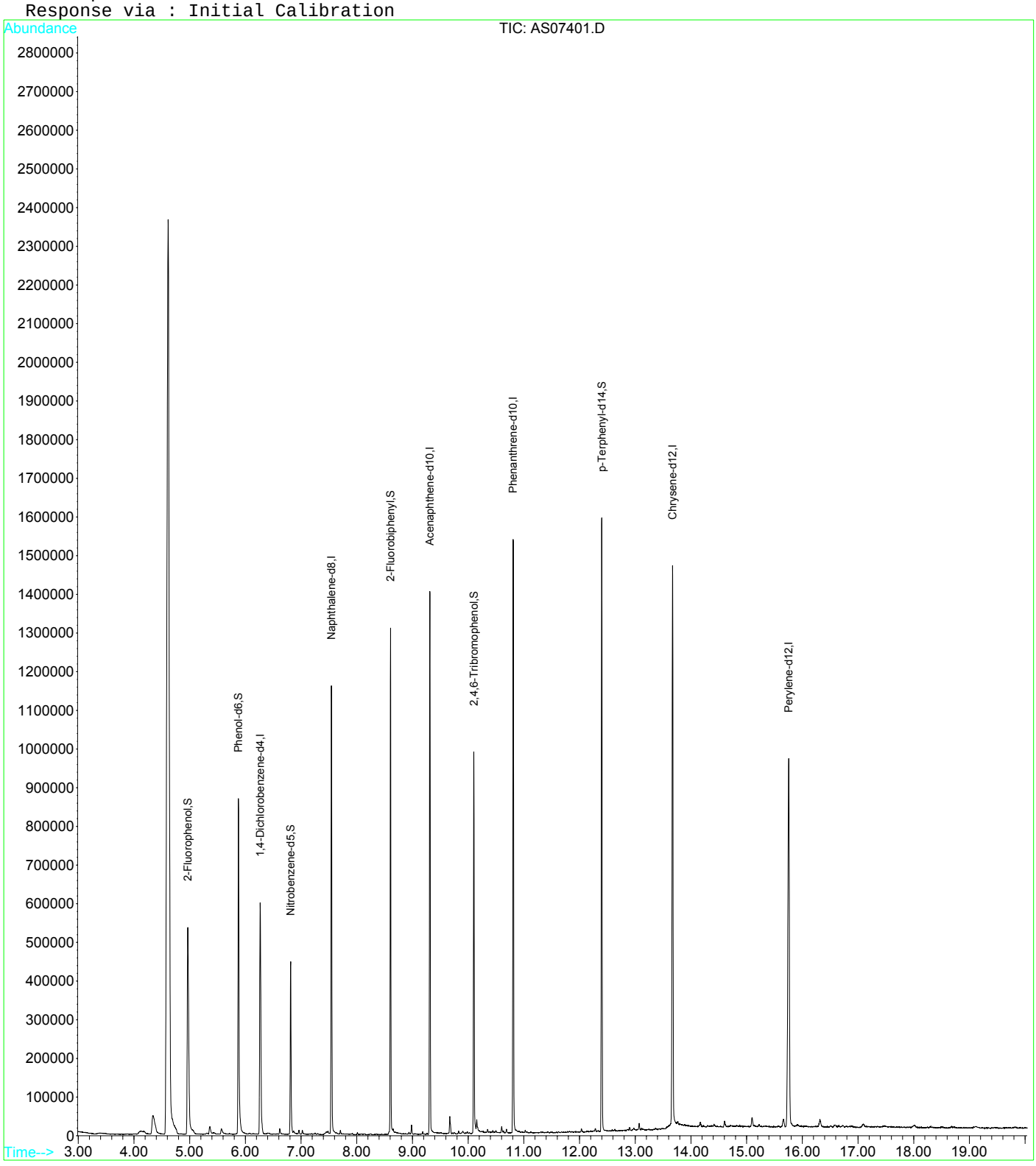
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
AS07401.D 0824ABN.M Fri Oct 12 15:12:04 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07401.D Vial: 9
Acq On : 11 Oct 2018 17:26 Operator: GCH
Sample : 8100452-09 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 17:57 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



AS07401.D 0824ABN.M Fri Oct 12 15:12:04 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-3B**
Lab Sample ID: **8100452-10**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:40	Prep Date:	10/11/18 08:03	File ID:	AS07396.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 14:58
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	91.53	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.121	0.219	U
91-57-6	2-Methylnaphthalene	ND	0.0349	0.219	U
83-32-9	Acenaphthene	ND	0.00829	0.145	U
208-96-8	Acenaphthylene	ND	0.00506	0.145	U
120-12-7	Anthracene	ND	0.0211	0.145	U
56-55-3	Benzo(a)anthracene	ND	0.0146	0.145	U
50-32-8	Benzo(a)pyrene	ND	0.0253	0.145	U
205-99-2	Benzo(b)fluoranthene	ND	0.0204	0.145	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0118	0.145	U
207-08-9	Benzo(k)fluoranthene	ND	0.0167	0.145	U
218-01-9	Chrysene	ND	0.00996	0.145	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0144	0.145	U
206-44-0	Fluoranthene	ND	0.0137	0.145	U
86-73-7	Fluorene	ND	0.0121	0.145	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0156	0.145	U
91-20-3	Naphthalene	ND	0.0108	0.145	U
85-01-8	Phenanthrene	ND	0.0191	0.145	U
129-00-0	Pyrene	ND	0.0107	0.145	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07396.D Vial: 4
Acq On : 11 Oct 2018 14:58 Operator: GCH
Sample : 8100452-10 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:02 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Thu Oct 11 15:59:28 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	137601	40.00	ug/kg	0.00
21) Naphthalene-d8	7.54	136	525512	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.31	164	279789	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	528787	40.00	ug/kg	0.00
75) Chrysene-d12	13.67	240	578999	40.00	ug/kg	0.00
84) Perylene-d12	15.75	264	603659	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.97	112	263114	68.82	ug/kg	-0.03
Spiked Amount 100.000	Range 18 - 82		Recovery = 68.82%			
7) Phenol-d6	5.87	99	301119	66.55	ug/kg	0.00
Spiked Amount 100.000	Range 20 - 88		Recovery = 66.55%			
22) Nitrobenzene-d5	6.81	82	139038	39.19	ug/kg	-0.03
Spiked Amount 50.000	Range 27 - 100		Recovery = 78.38%			
43) 2-Fluorobiphenyl	8.61	172	357978	32.35	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 105		Recovery = 64.70%			
65) 2,4,6-Tribromophenol	10.10	330	116012	74.23	ug/kg	-0.01
Spiked Amount 100.000	Range 24 - 115		Recovery = 74.23%			
78) p-Terphenyl-d14	12.40	244	524654	36.41	ug/kg	0.01
Spiked Amount 50.000	Range 29 - 110		Recovery = 72.82%			

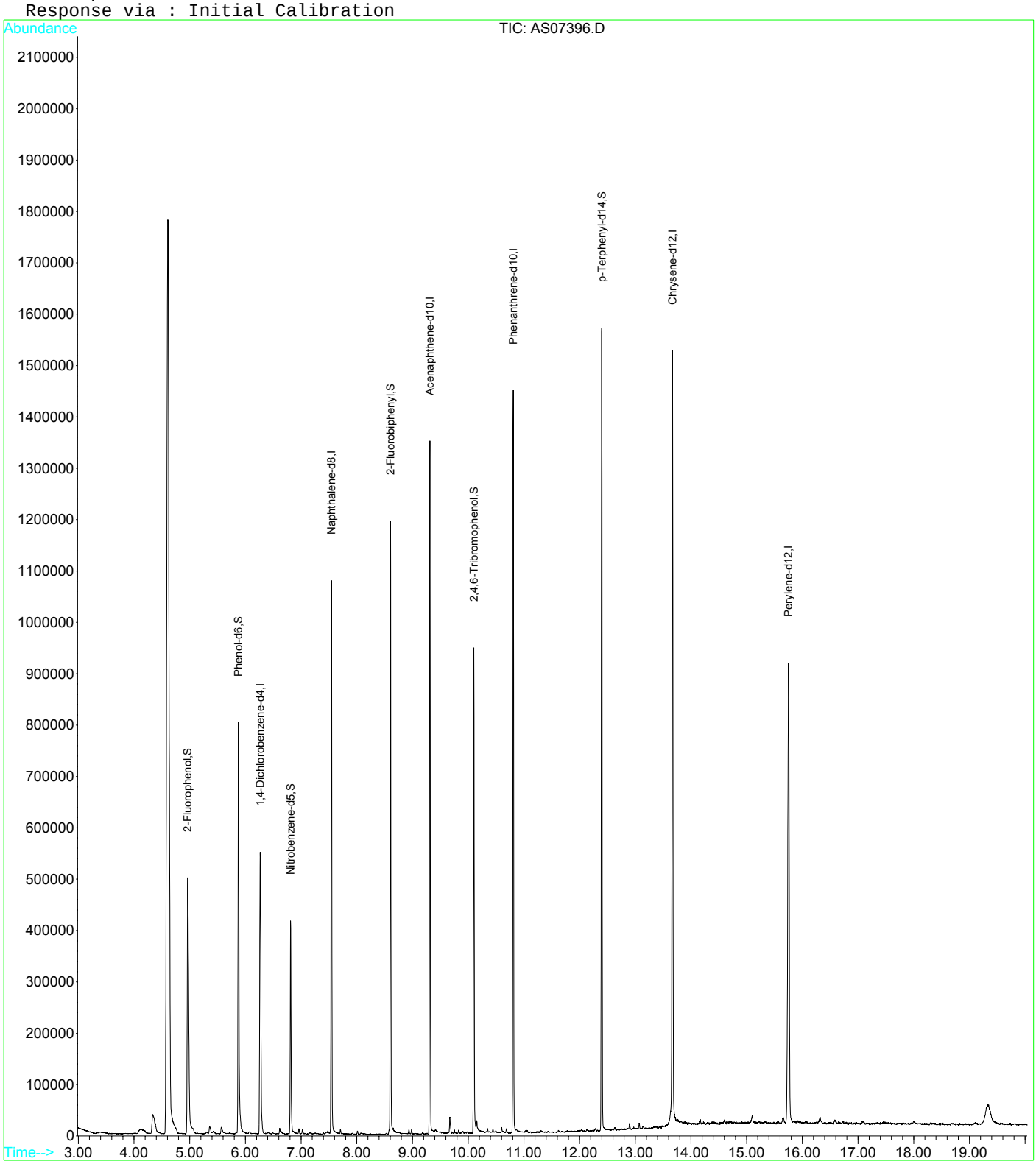
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
AS07396.D 0824ABN.M Fri Oct 12 15:11:52 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07396.D Vial: 4
Acq On : 11 Oct 2018 14:58 Operator: GCH
Sample : 8100452-10 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:02 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



AS07396.D 0824ABN.M Fri Oct 12 15:11:52 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07397.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	90.63	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.122	0.221	U
91-57-6	2-Methylnaphthalene	ND	0.0352	0.221	U
83-32-9	Acenaphthene	ND	0.00837	0.147	U
208-96-8	Acenaphthylene	ND	0.00511	0.147	U
120-12-7	Anthracene	ND	0.0213	0.147	U
56-55-3	Benzo(a)anthracene	ND	0.0148	0.147	U
50-32-8	Benzo(a)pyrene	ND	0.0256	0.147	U
205-99-2	Benzo(b)fluoranthene	ND	0.0206	0.147	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0119	0.147	U
207-08-9	Benzo(k)fluoranthene	ND	0.0169	0.147	U
218-01-9	Chrysene	ND	0.0101	0.147	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0146	0.147	U
206-44-0	Fluoranthene	ND	0.0138	0.147	U
86-73-7	Fluorene	ND	0.0122	0.147	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0158	0.147	U
91-20-3	Naphthalene	ND	0.0109	0.147	U
85-01-8	Phenanthrene	ND	0.0193	0.147	U
129-00-0	Pyrene	ND	0.0108	0.147	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07397.D Vial: 5
Acq On : 11 Oct 2018 15:28 Operator: GCH
Sample : 8100452-11 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:03 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Thu Oct 11 15:59:28 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	144157	40.00	ug/kg	0.00
21) Naphthalene-d8	7.54	136	544435	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.31	164	292101	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	558645	40.00	ug/kg	0.00
75) Chrysene-d12	13.67	240	606407	40.00	ug/kg	0.00
84) Perylene-d12	15.75	264	627427	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.97	112	239574	59.81	ug/kg	-0.03
Spiked Amount 100.000	Range 18 - 82		Recovery = 59.81%			
7) Phenol-d6	5.88	99	286179	60.38	ug/kg	0.01
Spiked Amount 100.000	Range 20 - 88		Recovery = 60.38%			
22) Nitrobenzene-d5	6.81	82	129974	35.36	ug/kg	-0.03
Spiked Amount 50.000	Range 27 - 100		Recovery = 70.72%			
43) 2-Fluorobiphenyl	8.61	172	331539	28.69	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 105		Recovery = 57.38%			
65) 2,4,6-Tribromophenol	10.10	330	105023	65.04	ug/kg	-0.01
Spiked Amount 100.000	Range 24 - 115		Recovery = 65.04%			
78) p-Terphenyl-d14	12.40	244	457486	30.32	ug/kg	0.01
Spiked Amount 50.000	Range 29 - 110		Recovery = 60.64%			

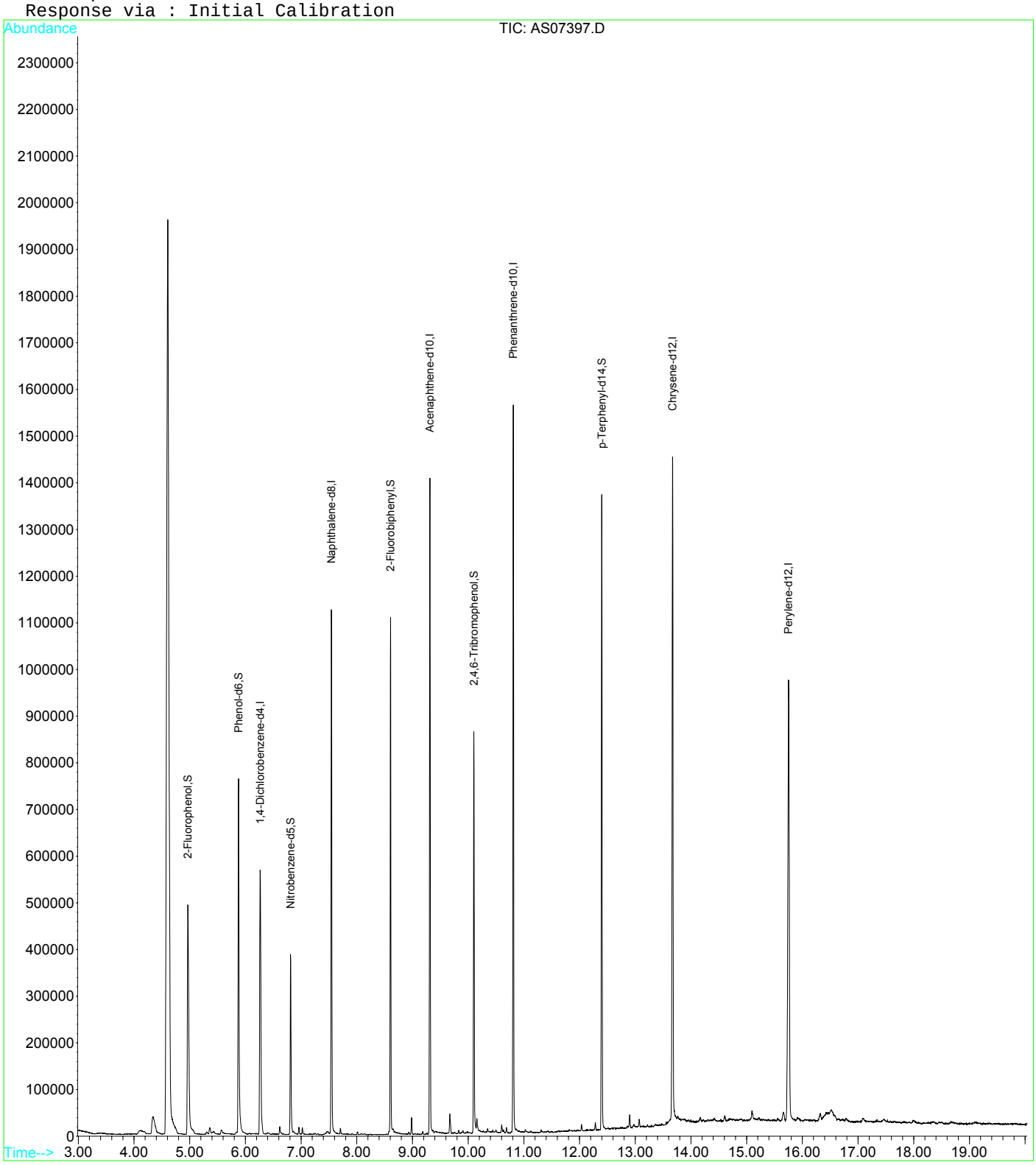
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
AS07397.D 0824ABN.M Fri Oct 12 15:11:54 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07397.D Vial: 5
Acq On : 11 Oct 2018 15:28 Operator: GCH
Sample : 8100452-11 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:03 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



AS07397.D 0824ABN.M Fri Oct 12 15:11:55 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07398.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	91.70	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.0348	0.218	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.0224	0.145	U
95-95-4	2,4,5-Trichlorophenol	ND	0.0197	0.145	U
88-06-2	2,4,6-Trichlorophenol	ND	0.00908	0.145	U
120-83-2	2,4-Dichlorophenol	ND	0.0146	0.145	U
105-67-9	2,4-Dimethylphenol	ND	0.0143	0.145	U
51-28-5	2,4-Dinitrophenol	ND	0.0209	0.727	U
121-14-2	2,4-Dinitrotoluene	ND	0.0155	0.145	U
606-20-2	2,6-Dinitrotoluene	ND	0.0347	0.145	U
91-58-7	2-Chloronaphthalene	ND	0.0167	0.145	U
95-57-8	2-Chlorophenol	ND	0.0192	0.145	U
91-57-6	2-Methylnaphthalene	ND	0.0348	0.218	U
95-48-7	2-Methylphenol	ND	0.0287	0.145	U
88-74-4	2-Nitroaniline	ND	0.0117	0.145	U
88-75-5	2-Nitrophenol	ND	0.0161	0.145	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.0153	0.145	U
106-44-5	3+4-Methylphenol	ND	0.0266	0.145	U
99-09-2	3-Nitroaniline	ND	0.0269	0.145	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.0274	0.363	U
101-55-3	4-Bromophenyl-phenyl ether	ND	0.0207	0.145	U
59-50-7	4-Chloro-3-methylphenol	ND	0.0229	0.145	U
106-47-8	4-Chloroaniline	ND	0.00508	0.145	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.00784	0.145	U
100-01-6	4-Nitroaniline	ND	0.0726	0.145	U
100-02-7	4-Nitrophenol	ND	0.00929	0.145	U
83-32-9	Acenaphthene	ND	0.00828	0.145	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07398.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	91.70	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
208-96-8	Acenaphthylene	ND	0.00505	0.145	U
98-86-2	Acetophenone	ND	0.0144	0.145	U
120-12-7	Anthracene	ND	0.0210	0.145	U
1912-24-9	Atrazine	ND	0.0136	0.145	U
100-52-7	Benzaldehyde	ND	0.0446	0.145	U
56-55-3	Benzo(a)anthracene	ND	0.0146	0.145	U
50-32-8	Benzo(a)pyrene	ND	0.0253	0.145	U
205-99-2	Benzo(b)fluoranthene	ND	0.0204	0.145	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0118	0.145	U
207-08-9	Benzo(k)fluoranthene	ND	0.0167	0.145	U
92-52-4	Biphenyl	ND	0.0128	0.145	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.0201	0.145	U
111-44-4	bis(2-chloroethyl)ether	ND	0.0159	0.145	U
108-60-1	bis(2-chloroisopropyl)ether	ND	0.0522	0.145	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	0.0290	0.145	U
85-68-7	Butylbenzylphthalate	ND	0.0132	0.145	U
105-60-2	Caprolactam	ND	0.0188	0.145	U
86-74-8	Carbazole	ND	0.0279	0.363	U
218-01-9	Chrysene	ND	0.00995	0.145	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0144	0.145	U
132-64-9	Dibenzofuran	ND	0.00865	0.145	U
84-66-2	Diethylphthalate	ND	0.0281	0.145	U
131-11-3	Dimethylphthalate	0.0632	0.00901	0.145	J
84-74-2	Di-n-butylphthalate	ND	0.0593	0.145	U
117-84-0	Di-n-octylphthalate	ND	0.0298	0.145	U
206-44-0	Fluoranthene	ND	0.0136	0.145	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07398.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	91.70	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
86-73-7	Fluorene	ND	0.0121	0.145	U
118-74-1	Hexachlorobenzene	ND	0.0190	0.145	U
87-68-3	Hexachlorobutadiene	ND	0.0697	0.145	U
77-47-4	Hexachlorocyclopentadiene	ND	0.0605	0.363	U
67-72-1	Hexachloroethane	ND	0.0159	0.145	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0156	0.145	U
78-59-1	Isophorone	ND	0.00951	0.145	U
91-20-3	Naphthalene	ND	0.0108	0.145	U
98-95-3	Nitrobenzene	ND	0.0246	0.145	U
621-64-7	n-Nitroso-di-n-propylamine	ND	0.00778	0.145	U
86-30-6	n-Nitrosodiphenylamine	ND	0.0310	0.145	U
85-01-8	Phenanthrene	ND	0.0191	0.145	U
108-95-2	Phenol	ND	0.0118	0.145	U
129-00-0	Pyrene	ND	0.0107	0.145	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07398.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	91.70	Prep Method:	Sonication MS		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07398.D Vial: 6
Acq On : 11 Oct 2018 15:57 Operator: GCH
Sample : 8100452-12 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:58 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

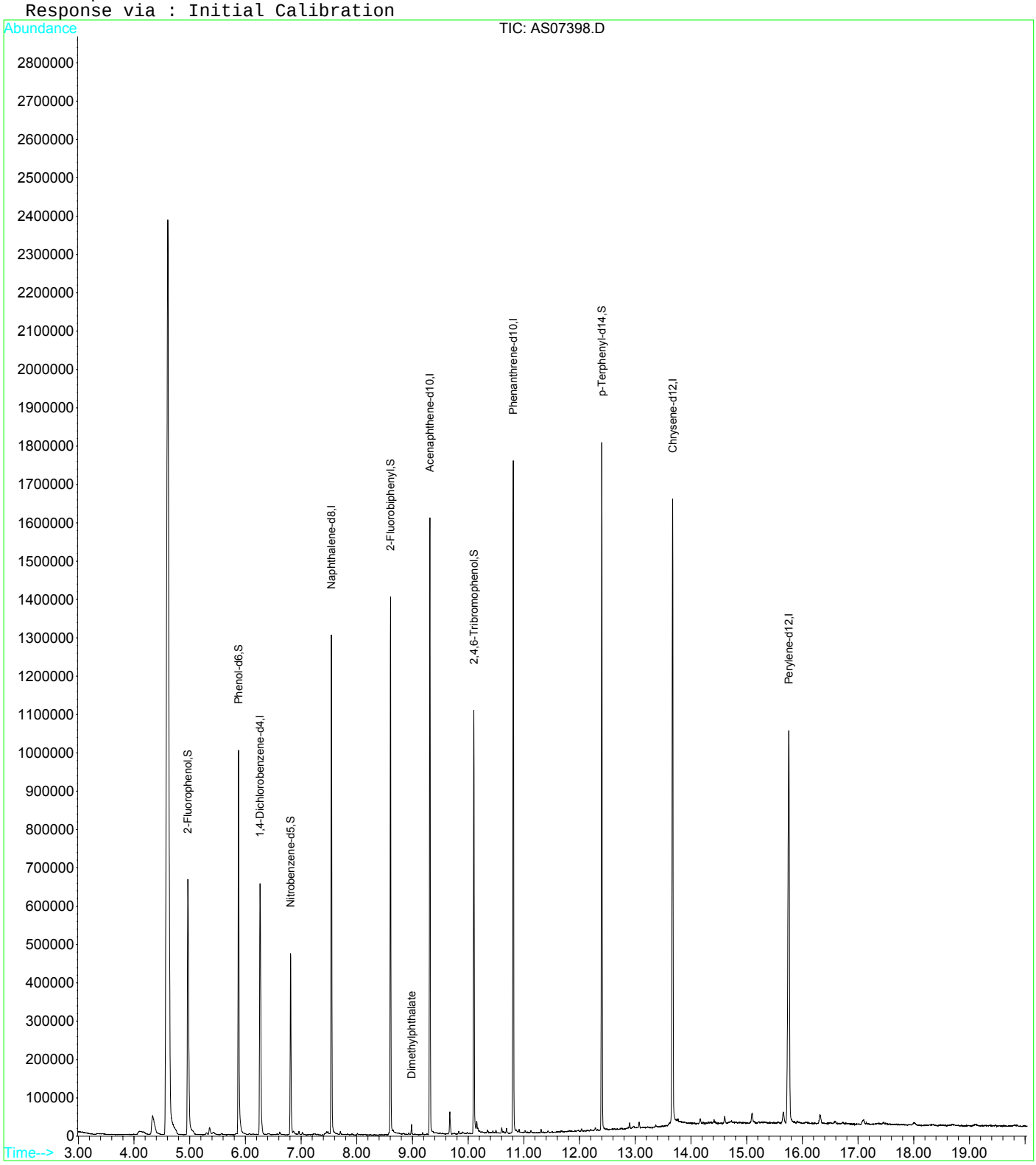
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.26	152	160040	40.00	ug/kg	0.00
21) Naphthalene-d8	7.54	136	621406	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.31	164	331206	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	635462	40.00	ug/kg	0.00
75) Chrysene-d12	13.67	240	691875	40.00	ug/kg	0.00
84) Perylene-d12	15.76	264	723702	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.97	112	300876	67.66	ug/kg	-0.03
Spiked Amount 100.000	Range 18 - 82		Recovery = 67.66%			
7) Phenol-d6	5.88	99	360028	68.42	ug/kg	0.01
Spiked Amount 100.000	Range 20 - 88		Recovery = 68.42%			
22) Nitrobenzene-d5	6.81	82	160092	38.16	ug/kg	-0.03
Spiked Amount 50.000	Range 27 - 100		Recovery = 76.32%			
43) 2-Fluorobiphenyl	8.61	172	418240	31.92	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 105		Recovery = 63.84%			
65) 2,4,6-Tribromophenol	10.10	330	133633	71.60	ug/kg	-0.01
Spiked Amount 100.000	Range 24 - 115		Recovery = 71.60%			
78) p-Terphenyl-d14	12.40	244	588569	34.18	ug/kg	0.01
Spiked Amount 50.000	Range 29 - 110		Recovery = 68.36%			
Target Compounds						Qvalue
47) Dimethylphthalate	8.98	163	10534	0.87	ug/kg	99

(#) = qualifier out of range (m) = manual integration
AS07398.D 0824ABN.M Fri Oct 12 15:11:57 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07398.D Vial: 6
Acq On : 11 Oct 2018 15:57 Operator: GCH
Sample : 8100452-12 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:58 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



AS07398.D 0824ABN.M Fri Oct 12 15:11:57 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-5**
Lab Sample ID: **8100452-13**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07399.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:27
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	92.63	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.120	0.216	U
91-57-6	2-Methylnaphthalene	ND	0.0344	0.216	U
83-32-9	Acenaphthene	ND	0.00819	0.144	U
208-96-8	Acenaphthylene	ND	0.00500	0.144	U
120-12-7	Anthracene	ND	0.0208	0.144	U
56-55-3	Benzo(a)anthracene	ND	0.0145	0.144	U
50-32-8	Benzo(a)pyrene	ND	0.0250	0.144	U
205-99-2	Benzo(b)fluoranthene	ND	0.0202	0.144	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0117	0.144	U
207-08-9	Benzo(k)fluoranthene	ND	0.0165	0.144	U
218-01-9	Chrysene	ND	0.00985	0.144	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0142	0.144	U
206-44-0	Fluoranthene	ND	0.0135	0.144	U
86-73-7	Fluorene	ND	0.0120	0.144	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0154	0.144	U
91-20-3	Naphthalene	ND	0.0106	0.144	U
85-01-8	Phenanthrene	ND	0.0189	0.144	U
129-00-0	Pyrene	ND	0.0106	0.144	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07399.D Vial: 7
Acq On : 11 Oct 2018 16:27 Operator: GCH
Sample : 8100452-13 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:58 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	144929	40.00	ug/kg	0.00
21) Naphthalene-d8	7.54	136	551744	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.31	164	296526	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	563939	40.00	ug/kg	0.00
75) Chrysene-d12	13.67	240	621689	40.00	ug/kg	0.00
84) Perylene-d12	15.75	264	638170	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.97	112	237168	58.90	ug/kg	-0.03
Spiked Amount 100.000	Range 18 - 82		Recovery = 58.90%			
7) Phenol-d6	5.88	99	278926	58.53	ug/kg	0.01
Spiked Amount 100.000	Range 20 - 88		Recovery = 58.53%			
22) Nitrobenzene-d5	6.81	82	128849	34.59	ug/kg	-0.03
Spiked Amount 50.000	Range 27 - 100		Recovery = 69.18%			
43) 2-Fluorobiphenyl	8.61	172	327959	27.96	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 105		Recovery = 55.92%			
65) 2,4,6-Tribromophenol	10.10	330	103360	63.63	ug/kg	-0.01
Spiked Amount 100.000	Range 24 - 115		Recovery = 63.63%			
78) p-Terphenyl-d14	12.40	244	463219	29.94	ug/kg	0.01
Spiked Amount 50.000	Range 29 - 110		Recovery = 59.88%			

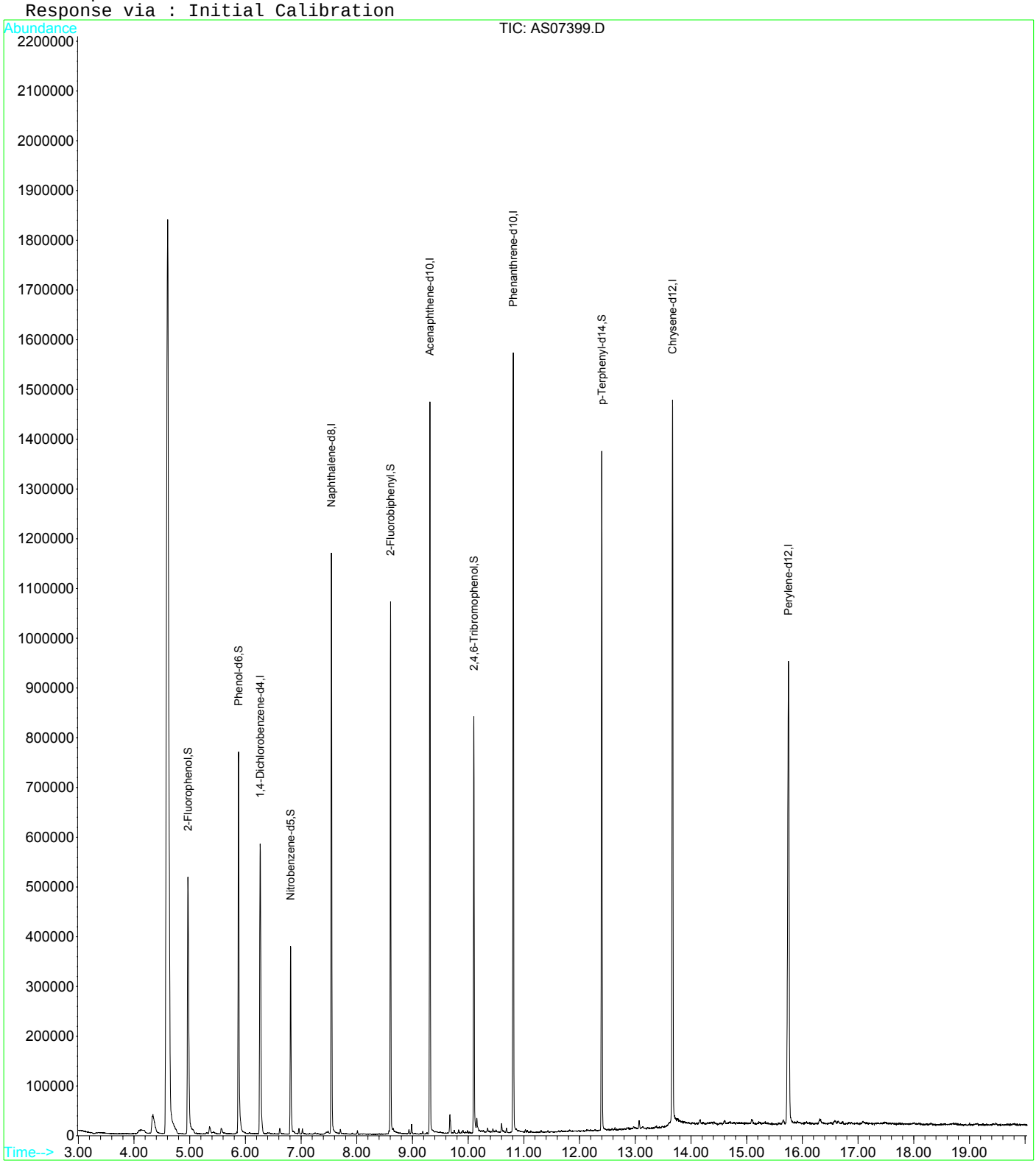
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
AS07399.D 0824ABN.M Fri Oct 12 15:11:59 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07399.D Vial: 7
Acq On : 11 Oct 2018 16:27 Operator: GCH
Sample : 8100452-13 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:58 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



AS07399.D 0824ABN.M Fri Oct 12 15:11:59 2018 SS Page 2

14 14.2.

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07400.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	92.94	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.0343	0.215	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.0221	0.143	U
95-95-4	2,4,5-Trichlorophenol	ND	0.0195	0.143	U
88-06-2	2,4,6-Trichlorophenol	ND	0.00896	0.143	U
120-83-2	2,4-Dichlorophenol	ND	0.0144	0.143	U
105-67-9	2,4-Dimethylphenol	ND	0.0141	0.143	U
51-28-5	2,4-Dinitrophenol	ND	0.0207	0.718	U
121-14-2	2,4-Dinitrotoluene	ND	0.0153	0.143	U
606-20-2	2,6-Dinitrotoluene	ND	0.0342	0.143	U
91-58-7	2-Chloronaphthalene	ND	0.0165	0.143	U
95-57-8	2-Chlorophenol	ND	0.0189	0.143	U
91-57-6	2-Methylnaphthalene	ND	0.0343	0.215	U
95-48-7	2-Methylphenol	ND	0.0283	0.143	U
88-74-4	2-Nitroaniline	ND	0.0115	0.143	U
88-75-5	2-Nitrophenol	ND	0.0159	0.143	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.0151	0.143	U
106-44-5	3+4-Methylphenol	ND	0.0263	0.143	U
99-09-2	3-Nitroaniline	ND	0.0266	0.143	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.0270	0.358	U
101-55-3	4-Bromophenyl-phenyl ether	ND	0.0204	0.143	U
59-50-7	4-Chloro-3-methylphenol	ND	0.0226	0.143	U
106-47-8	4-Chloroaniline	ND	0.00501	0.143	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.00774	0.143	U
100-01-6	4-Nitroaniline	ND	0.0717	0.143	U
100-02-7	4-Nitrophenol	ND	0.00917	0.143	U
83-32-9	Acenaphthene	ND	0.00817	0.143	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07400.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	92.94	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
208-96-8	Acenaphthylene	ND	0.00498	0.143	U
98-86-2	Acetophenone	ND	0.0142	0.143	U
120-12-7	Anthracene	ND	0.0208	0.143	U
1912-24-9	Atrazine	ND	0.0135	0.143	U
100-52-7	Benzaldehyde	ND	0.0440	0.143	U
56-55-3	Benzo(a)anthracene	ND	0.0144	0.143	U
50-32-8	Benzo(a)pyrene	ND	0.0250	0.143	U
205-99-2	Benzo(b)fluoranthene	ND	0.0201	0.143	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0116	0.143	U
207-08-9	Benzo(k)fluoranthene	ND	0.0165	0.143	U
92-52-4	Biphenyl	ND	0.0126	0.143	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.0198	0.143	U
111-44-4	bis(2-chloroethyl)ether	ND	0.0157	0.143	U
108-60-1	bis(2-chloroisopropyl)ether	ND	0.0515	0.143	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	0.0286	0.143	U
85-68-7	Butylbenzylphthalate	ND	0.0130	0.143	U
105-60-2	Caprolactam	ND	0.0185	0.143	U
86-74-8	Carbazole	ND	0.0275	0.358	U
218-01-9	Chrysene	ND	0.00981	0.143	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0142	0.143	U
132-64-9	Dibenzofuran	ND	0.00853	0.143	U
84-66-2	Diethylphthalate	ND	0.0278	0.143	U
131-11-3	Dimethylphthalate	ND	0.00889	0.143	U
84-74-2	Di-n-butylphthalate	ND	0.0585	0.143	U
117-84-0	Di-n-octylphthalate	ND	0.0294	0.143	U
206-44-0	Fluoranthene	ND	0.0135	0.143	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07400.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	92.94	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
86-73-7	Fluorene	ND	0.0119	0.143	U
118-74-1	Hexachlorobenzene	ND	0.0187	0.143	U
87-68-3	Hexachlorobutadiene	ND	0.0688	0.143	U
77-47-4	Hexachlorocyclopentadiene	ND	0.0597	0.358	U
67-72-1	Hexachloroethane	ND	0.0157	0.143	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0154	0.143	U
78-59-1	Isophorone	ND	0.00938	0.143	U
91-20-3	Naphthalene	ND	0.0106	0.143	U
98-95-3	Nitrobenzene	ND	0.0243	0.143	U
621-64-7	n-Nitroso-di-n-propylamine	ND	0.00767	0.143	U
86-30-6	n-Nitrosodiphenylamine	ND	0.0306	0.143	U
85-01-8	Phenanthrene	ND	0.0188	0.143	U
108-95-2	Phenol	ND	0.0116	0.143	U
129-00-0	Pyrene	ND	0.0105	0.143	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07400.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	92.94	Prep Method:	Sonication MS		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07400.D Vial: 8
Acq On : 11 Oct 2018 16:57 Operator: GCH
Sample : 8100452-14 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 17:22 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	139395	40.00	ug/kg	0.00
21) Naphthalene-d8	7.54	136	542847	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.31	164	286684	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	546847	40.00	ug/kg	0.00
75) Chrysene-d12	13.67	240	598306	40.00	ug/kg	0.00
84) Perylene-d12	15.75	264	626870	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.97	112	184990	47.76	ug/kg	-0.03
Spiked Amount 100.000	Range 18 - 82		Recovery = 47.76%			
7) Phenol-d6	5.87	99	217367	47.43	ug/kg	0.00
Spiked Amount 100.000	Range 20 - 88		Recovery = 47.43%			
22) Nitrobenzene-d5	6.81	82	101420	27.67	ug/kg	-0.03
Spiked Amount 50.000	Range 27 - 100		Recovery = 55.34%			
43) 2-Fluorobiphenyl	8.61	172	263884	23.27	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 105		Recovery = 46.54%			
65) 2,4,6-Tribromophenol	10.10	330	77092	50.57	ug/kg	-0.01
Spiked Amount 100.000	Range 24 - 115		Recovery = 50.57%			
78) p-Terphenyl-d14	12.40	244	361237	24.26	ug/kg	0.00
Spiked Amount 50.000	Range 29 - 110		Recovery = 48.52%			

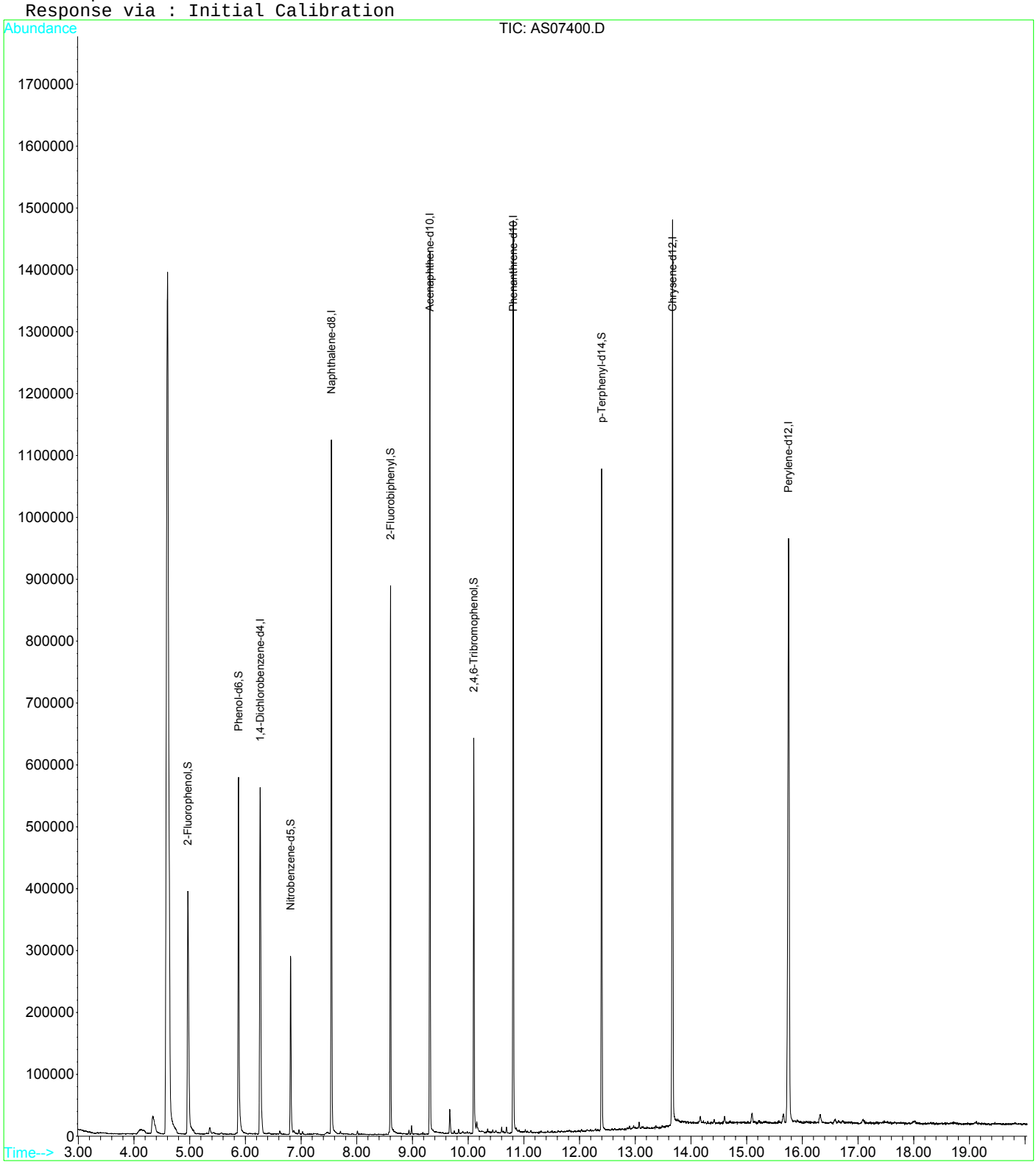
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
AS07400.D 0824ABN.M Fri Oct 12 15:12:01 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07400.D Vial: 8
Acq On : 11 Oct 2018 16:57 Operator: GCH
Sample : 8100452-14 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 17:22 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



AS07400.D 0824ABN.M Fri Oct 12 15:12:02 2018 SS Page 2

14 14.2.

SURROGATE RECOVERIES

Analysis Class: SEMIVOLATILES

Matrix: Soil **Method:** SW 846 8270D

BN-PAH

Lab Number	File ID	NBZ	FPB	TER-D14	2FP	PHN-D6	TBP
8100452-02	DS18772.D	77.1	67.5	74.8			
8100452-03	DS18773.D	77.7	74.8	80.6			
8100452-04	DS18774.D	73.7	69.6	74.0			
8100452-05	DS18775.D	71.0	68.2	74.1			
8100452-07	DS18777.D	74.6	70.2	73.5			
8100452-08	DS18778.D	76.9	77.3	80.8			
8100452-09	AS07401.D	77.0	65.1	68.1			
8100452-10	AS07396.D	78.4	64.7	72.8			
8100452-11	AS07397.D	70.7	57.4	60.6			
8100452-13	AS07399.D	69.2	55.9	59.9			
B8J1101-BLK1	DS18769.D	81.0	76.3	81.9			
B8J1101-BS1	DS18770.D	87.6	83.0	90.3			
B8J1101-MS1	DS18779.D	51.6	51.0	55.2			
B8J1101-MSD1	DS18780.D	69.3	65.2	70.4			

BNA+25

Lab Number	File ID	NBZ	FPB	TER-D14	2FP	PHN-D6	TBP
8100452-01	DS18771.D	75.0	69.9	77.6	68.6	72.0	64.2
8100452-06	DS18776.D	64.1	60.9	70.7	61.0	64.8	55.7
8100452-12	AS07398.D	76.3	63.8	68.4	67.7	68.4	71.6
8100452-14	AS07400.D	55.3	46.5	48.5	47.8	47.4	50.6
B8J1101-BLK1	DS18769.D	81.0	76.3	81.9	76.2	78.0	68.6
B8J1101-BS1	DS18770.D	87.6	83.0	90.3	87.0*	87.9	72.0
B8J1101-MS1	DS18779.D	51.6	51.0	55.2	47.7	50.8	47.4
B8J1101-MSD1	DS18780.D	69.3	65.2	70.4	66.4	70.8	61.4

Surrogate Limits		Lo Limit	Hi Limit
NBZ	Nitrobenzene-d5	27.1	99.6
FPB	2-Fluorobiphenyl	26.5	105
TER-D14	p-Terphenyl-d14	28.8	110
2FP	2-Fluorophenol	18	81.6
PHN-D6	Phenol-d6	19.9	88.2
TBP	2,4,6-Tribromophenol	23.7	115

F-II

* - Outside of QC Limits

Batch B8J1101 **Method: SW 846 8270D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1101-BS1		2,3,4,6-Tetrachlorophenol	2.60	mg/kg wet	3.33		77.9	51.8-112		
B8J1101-BS1		2,4,5-Trichlorophenol	2.74	mg/kg wet	3.33		82.1	49.3-106		
B8J1101-BS1		2,4,6-Trichlorophenol	2.68	mg/kg wet	3.33		80.3	51.9-97		
B8J1101-BS1		2,4-Dichlorophenol	2.78	mg/kg wet	3.33		83.5	57.3-101		
B8J1101-BS1		2,4-Dimethylphenol	3.03	mg/kg wet	3.33		91.0*	54.1-90.3		
B8J1101-BS1		2,4-Dinitrophenol	0.854	mg/kg wet	3.33		25.6	15-109		
B8J1101-BS1		2,4-Dinitrotoluene	2.90	mg/kg wet	3.33		87.0	48.2-110		
B8J1101-BS1		2,6-Dinitrotoluene	2.74	mg/kg wet	3.33		82.3	52.3-102		
B8J1101-BS1		2-Chloronaphthalene	2.64	mg/kg wet	3.33		79.3	50.4-88.1		
B8J1101-BS1		2-Chlorophenol	2.87	mg/kg wet	3.33		86.1	50.4-90.6		
B8J1101-BS1		2-Methylnaphthalene	2.74	mg/kg wet	3.33		82.1	58.8-99.1		
B8J1101-BS1		2-Methylphenol	3.00	mg/kg wet	3.33		90.1*	53.3-89.3		
B8J1101-BS1		2-Nitroaniline	3.01	mg/kg wet	3.33		90.2	53.6-103		
B8J1101-BS1		2-Nitrophenol	2.69	mg/kg wet	3.33		80.8	47.4-90.4		
B8J1101-BS1		3,3'-Dichlorobenzidine	2.32	mg/kg wet	3.33		69.5	27.7-175		
B8J1101-BS1		3+4-Methylphenol	2.92	mg/kg wet	3.33		87.7	48.9-90.5		
B8J1101-BS1		3-Nitroaniline	2.83	mg/kg wet	3.33		85.0	55.6-113		
B8J1101-BS1		4,6-Dinitro-2-methylphenol	1.60	mg/kg wet	3.33		47.9	24.4-112		
B8J1101-BS1		4-Bromophenyl-phenyl ether	2.79	mg/kg wet	3.33		83.6	54.7-102		
B8J1101-BS1		4-Chloro-3-methylphenol	3.04	mg/kg wet	3.33		91.2	54-102		
B8J1101-BS1		4-Chloroaniline	2.58	mg/kg wet	3.33		77.5	15-163		
B8J1101-BS1		4-Chlorophenyl phenyl ether	2.65	mg/kg wet	3.33		79.6	48.5-103		
B8J1101-BS1		4-Nitroaniline	3.11	mg/kg wet	3.33		93.3	47.3-162		
B8J1101-BS1		4-Nitrophenol	3.20	mg/kg wet	3.33		96.1	15-178		
B8J1101-BS1		Acenaphthene	2.71	mg/kg wet	3.33		81.2	52.1-88		
B8J1101-BS1		Acenaphthylene	2.70	mg/kg wet	3.33		80.9	45.6-89.2		
B8J1101-BS1		Acetophenone	2.53	mg/kg wet	3.33		75.8	44.8-81		
B8J1101-BS1		Anthracene	2.91	mg/kg wet	3.33		87.2	51.8-96.7		
B8J1101-BS1		Atrazine	2.51	mg/kg wet	3.33		75.3	34.4-161		
B8J1101-BS1		Benzaldehyde	0.0572	mg/kg wet	3.33		1.72*	15-99.5		
B8J1101-BS1		Benzo(a)anthracene	2.79	mg/kg wet	3.33		83.6	54.4-90.2		
B8J1101-BS1		Benzo(a)pyrene	2.93	mg/kg wet	3.33		87.8	56.9-99.9		
B8J1101-BS1		Benzo(b)fluoranthene	3.01	mg/kg wet	3.33		90.2	59-104		
B8J1101-BS1		Benzo(g,h,i)perylene	2.96	mg/kg wet	3.33		88.9	55.8-113		
B8J1101-BS1		Benzo(k)fluoranthene	3.02	mg/kg wet	3.33		90.6	56.8-101		
B8J1101-BS1		Biphenyl	2.91	mg/kg wet	3.33		87.2	68.5-109		
B8J1101-BS1		bis(2-chloroethoxy)methane	2.91	mg/kg wet	3.33		87.2	59.9-96		
B8J1101-BS1		bis(2-chloroethyl)ether	2.80	mg/kg wet	3.33		84.0	25.4-102		
B8J1101-BS1		bis(2-chloroisopropyl)ether	2.67	mg/kg wet	3.33		80.1	22.7-94.1		
B8J1101-BS1		bis(2-ethylhexyl)phthalate	3.14	mg/kg wet	3.33		94.2	53.2-109		
B8J1101-BS1		Butylbenzylphthalate	3.24	mg/kg wet	3.33		97.3	51-107		
B8J1101-BS1		Caprolactam	2.82	mg/kg wet	3.33		84.7	51.6-117		
B8J1101-BS1		Carbazole	2.92	mg/kg wet	3.33		87.6	26.1-122		
B8J1101-BS1		Chrysene	2.79	mg/kg wet	3.33		83.8	50.3-91.6		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL
NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1101 (cont.) **Method: SW 846 8270D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1101-BS1		Dibenzo(a,h)anthracene	2.80	mg/kg wet	3.33		84.1	52.3-109		
B8J1101-BS1		Dibenzofuran	2.76	mg/kg wet	3.33		82.8	52.4-94		
B8J1101-BS1		Diethylphthalate	2.98	mg/kg wet	3.33		89.4	50.3-93.7		
B8J1101-BS1		Dimethylphthalate	2.93	mg/kg wet	3.33		88.0	52.1-92		
B8J1101-BS1		Di-n-butylphthalate	3.00	mg/kg wet	3.33		89.9	50.2-105		
B8J1101-BS1		Di-n-octylphthalate	3.22	mg/kg wet	3.33		96.6	41.8-121		
B8J1101-BS1		Fluoranthene	2.77	mg/kg wet	3.33		83.0	54.9-92.7		
B8J1101-BS1		Fluorene	2.65	mg/kg wet	3.33		79.5	52.1-89.5		
B8J1101-BS1		Hexachlorobenzene	2.45	mg/kg wet	3.33		73.5	45.6-102		
B8J1101-BS1		Hexachlorobutadiene	2.43	mg/kg wet	3.33		72.9	39.2-104		
B8J1101-BS1		Hexachlorocyclopentadiene	2.38	mg/kg wet	3.33		71.5	37.5-94.3		
B8J1101-BS1		Hexachloroethane	2.71	mg/kg wet	3.33		81.3	49.3-83.4		
B8J1101-BS1		Indeno(1,2,3-cd)pyrene	2.94	mg/kg wet	3.33		88.2	49.7-115		
B8J1101-BS1		Isophorone	3.44	mg/kg wet	3.33		103*	63.1-100		
B8J1101-BS1		Naphthalene	2.53	mg/kg wet	3.33		75.8	49-85.3		
B8J1101-BS1		Nitrobenzene	2.86	mg/kg wet	3.33		85.9	51.4-89.6		
B8J1101-BS1		n-Nitroso-di-n-propylamine	2.96	mg/kg wet	3.33		88.8	47.3-94		
B8J1101-BS1		n-Nitrosodiphenylamine	2.95	mg/kg wet	3.33		88.4	56.4-106		
B8J1101-BS1		Pentachlorophenol	1.42	mg/kg wet	3.33		42.5	15-116		
B8J1101-BS1		Phenanthrene	2.90	mg/kg wet	3.33		86.9	51.6-93.8		
B8J1101-BS1		Phenol	3.21	mg/kg wet	3.33		96.4*	42.3-86.3		
B8J1101-BS1		Pyrene	2.93	mg/kg wet	3.33		87.9	46.5-96.7		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1101 (cont.) **Method: SW 846 8270D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1101-MS1	8100452-01	2,3,4,6-Tetrachlorophenol	1.47	mg/kg dry	3.71	ND	39.7	31.5-156		
B8J1101-MS1	8100452-01	2,4,5-Trichlorophenol	1.78	mg/kg dry	3.71	ND	47.9	39.1-118		
B8J1101-MS1	8100452-01	2,4,6-Trichlorophenol	1.74	mg/kg dry	3.71	ND	46.9	40.4-117		
B8J1101-MS1	8100452-01	2,4-Dichlorophenol	1.77	mg/kg dry	3.71	ND	47.7	36.4-101		
B8J1101-MS1	8100452-01	2,4-Dimethylphenol	2.07	mg/kg dry	3.71	ND	55.8	36.2-114		
B8J1101-MS1	8100452-01	2,4-Dinitrophenol	0.141	mg/kg dry	3.71	ND	3.79*	15-63		
B8J1101-MS1	8100452-01	2,4-Dinitrotoluene	2.02	mg/kg dry	3.71	ND	54.6	32.9-118		
B8J1101-MS1	8100452-01	2,6-Dinitrotoluene	1.88	mg/kg dry	3.71	ND	50.7	33.3-121		
B8J1101-MS1	8100452-01	2-Chloronaphthalene	1.75	mg/kg dry	3.71	ND	47.1	39-96.6		
B8J1101-MS1	8100452-01	2-Chlorophenol	1.68	mg/kg dry	3.71	ND	45.2	37-105		
B8J1101-MS1	8100452-01	2-Methylnaphthalene	1.86	mg/kg dry	3.71	ND	50.1	22.1-135		
B8J1101-MS1	8100452-01	2-Methylphenol	1.84	mg/kg dry	3.71	ND	49.6	35.8-108		
B8J1101-MS1	8100452-01	2-Nitroaniline	1.94	mg/kg dry	3.71	ND	52.4	46.6-119		
B8J1101-MS1	8100452-01	2-Nitrophenol	1.63	mg/kg dry	3.71	ND	44.1	15-102		
B8J1101-MS1	8100452-01	3,3'-Dichlorobenzidine	1.59	mg/kg dry	3.71	ND	42.9	15-168		
B8J1101-MS1	8100452-01	3+4-Methylphenol	1.80	mg/kg dry	3.71	ND	48.5	37.5-108		
B8J1101-MS1	8100452-01	3-Nitroaniline	1.91	mg/kg dry	3.71	ND	51.4*	81.4-181		
B8J1101-MS1	8100452-01	4,6-Dinitro-2-methylphenol	0.820	mg/kg dry	3.71	ND	22.1	15-80.1		
B8J1101-MS1	8100452-01	4-Bromophenyl-phenyl ether	1.86	mg/kg dry	3.71	ND	50.2	47.8-116		
B8J1101-MS1	8100452-01	4-Chloro-3-methylphenol	1.96	mg/kg dry	3.71	ND	52.8	42.5-109		
B8J1101-MS1	8100452-01	4-Chloroaniline	1.58	mg/kg dry	3.71	ND	42.5	36.6-159		
B8J1101-MS1	8100452-01	4-Chlorophenyl phenyl ether	1.79	mg/kg dry	3.71	ND	48.2	37.8-127		
B8J1101-MS1	8100452-01	4-Nitroaniline	2.23	mg/kg dry	3.71	ND	60.1*	65.5-172		
B8J1101-MS1	8100452-01	4-Nitrophenol	1.99	mg/kg dry	3.71	ND	53.7	15-149		
B8J1101-MS1	8100452-01	Acenaphthene	1.80	mg/kg dry	3.71	ND	48.5	46.5-107		
B8J1101-MS1	8100452-01	Acenaphthylene	1.83	mg/kg dry	3.71	ND	49.4	44.9-104		
B8J1101-MS1	8100452-01	Acetophenone	1.59	mg/kg dry	3.71	ND	42.9	27.2-114		
B8J1101-MS1	8100452-01	Anthracene	2.00	mg/kg dry	3.71	ND	54.0	40.6-106		
B8J1101-MS1	8100452-01	Atrazine	1.82	mg/kg dry	3.71	ND	49.1	48.9-137		
B8J1101-MS1	8100452-01	Benzaldehyde	ND	mg/kg dry	3.71	ND	*	15-187		
B8J1101-MS1	8100452-01	Benzo(a)anthracene	1.93	mg/kg dry	3.71	0.0995	49.3	46.3-117		
B8J1101-MS1	8100452-01	Benzo(a)pyrene	1.98	mg/kg dry	3.71	0.0887	51.0	40.6-131		
B8J1101-MS1	8100452-01	Benzo(b)fluoranthene	2.21	mg/kg dry	3.71	0.107	56.8	41.1-134		
B8J1101-MS1	8100452-01	Benzo(g,h,i)perylene	2.07	mg/kg dry	3.71	0.0702	53.9	15-104		
B8J1101-MS1	8100452-01	Benzo(k)fluoranthene	2.05	mg/kg dry	3.71	0.0788	53.2	41-150		
B8J1101-MS1	8100452-01	Biphenyl	1.99	mg/kg dry	3.71	ND	53.7	42.6-106		
B8J1101-MS1	8100452-01	bis(2-chloroethoxy)methane	1.87	mg/kg dry	3.71	ND	50.6	42.9-110		
B8J1101-MS1	8100452-01	bis(2-chloroethyl)ether	1.63	mg/kg dry	3.71	ND	44.0	37-110		
B8J1101-MS1	8100452-01	bis(2-chloroisopropyl)ether	1.62	mg/kg dry	3.71	ND	43.8	31-132		
B8J1101-MS1	8100452-01	bis(2-ethylhexyl)phthalate	2.24	mg/kg dry	3.71	ND	60.3	53.6-131		
B8J1101-MS1	8100452-01	Butylbenzylphthalate	2.19	mg/kg dry	3.71	ND	59.0	46.6-134		
B8J1101-MS1	8100452-01	Caprolactam	1.97	mg/kg dry	3.71	ND	53.1	38.6-126		
B8J1101-MS1	8100452-01	Carbazole	2.01	mg/kg dry	3.71	ND	54.1	53.7-153		
B8J1101-MS1	8100452-01	Chrysene	1.98	mg/kg dry	3.71	0.0909	50.9	40.5-125		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1101 (cont.) **Method: SW 846 8270D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1101-MS1	8100452-01	Dibenzo(a,h)anthracene	1.95	mg/kg dry	3.71	ND	52.5	15-109		
B8J1101-MS1	8100452-01	Dibenzofuran	1.92	mg/kg dry	3.71	ND	51.7	15-138		
B8J1101-MS1	8100452-01	Diethylphthalate	2.04	mg/kg dry	3.71	ND	54.9	40.1-132		
B8J1101-MS1	8100452-01	Dimethylphthalate	2.08	mg/kg dry	3.71	ND	56.0	32.5-112		
B8J1101-MS1	8100452-01	Di-n-butylphthalate	2.13	mg/kg dry	3.71	ND	57.5	40.1-129		
B8J1101-MS1	8100452-01	Di-n-octylphthalate	2.38	mg/kg dry	3.71	ND	64.3*	71.6-172		
B8J1101-MS1	8100452-01	Fluoranthene	1.96	mg/kg dry	3.71	0.167	48.4	43.8-116		
B8J1101-MS1	8100452-01	Fluorene	1.84	mg/kg dry	3.71	ND	49.6	43.7-110		
B8J1101-MS1	8100452-01	Hexachlorobenzene	1.71	mg/kg dry	3.71	ND	46.1	39.4-110		
B8J1101-MS1	8100452-01	Hexachlorobutadiene	1.49	mg/kg dry	3.71	ND	40.1	37.7-119		
B8J1101-MS1	8100452-01	Hexachlorocyclopentadiene	1.06	mg/kg dry	3.71	ND	28.6	15-62.9		
B8J1101-MS1	8100452-01	Hexachloroethane	1.54	mg/kg dry	3.71	ND	41.7	15-110		
B8J1101-MS1	8100452-01	Indeno(1,2,3-cd)pyrene	2.04	mg/kg dry	3.71	0.0610	53.5	15-107		
B8J1101-MS1	8100452-01	Isophorone	2.20	mg/kg dry	3.71	ND	59.3	41.2-120		
B8J1101-MS1	8100452-01	Naphthalene	1.64	mg/kg dry	3.71	ND	44.1	25.3-117		
B8J1101-MS1	8100452-01	Nitrobenzene	1.80	mg/kg dry	3.71	ND	48.4	40.1-117		
B8J1101-MS1	8100452-01	n-Nitroso-di-n-propylamine	1.78	mg/kg dry	3.71	ND	48.0	27.8-169		
B8J1101-MS1	8100452-01	n-Nitrosodiphenylamine	2.08	mg/kg dry	3.71	ND	56.0	45.4-155		
B8J1101-MS1	8100452-01	Pentachlorophenol	0.540	mg/kg dry	3.71	ND	14.6*	15-104		
B8J1101-MS1	8100452-01	Phenanthrene	2.05	mg/kg dry	3.71	0.126	51.8	30-114		
B8J1101-MS1	8100452-01	Phenol	1.87	mg/kg dry	3.71	ND	50.5	28.3-131		
B8J1101-MS1	8100452-01	Pyrene	2.17	mg/kg dry	3.71	0.158	54.3	33.7-116		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1101 (cont.) **Method: SW 846 8270D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1101-MSD1	8100452-01	2,3,4,6-Tetrachlorophenol	2.29	mg/kg dry	3.71	ND	61.8	31.5-156	43.6*	30
B8J1101-MSD1	8100452-01	2,4,5-Trichlorophenol	2.46	mg/kg dry	3.71	ND	66.2	39.1-118	32.2*	30
B8J1101-MSD1	8100452-01	2,4,6-Trichlorophenol	2.29	mg/kg dry	3.71	ND	61.7	40.4-117	27.2	30
B8J1101-MSD1	8100452-01	2,4-Dichlorophenol	2.51	mg/kg dry	3.71	ND	67.8	36.4-101	34.8*	30
B8J1101-MSD1	8100452-01	2,4-Dimethylphenol	2.80	mg/kg dry	3.71	ND	75.5	36.2-114	30.0	30
B8J1101-MSD1	8100452-01	2,4-Dinitrophenol	0.459	mg/kg dry	3.71	ND	12.4*	15-63	106*	30
B8J1101-MSD1	8100452-01	2,4-Dinitrotoluene	2.60	mg/kg dry	3.71	ND	70.2	32.9-118	25.1	30
B8J1101-MSD1	8100452-01	2,6-Dinitrotoluene	2.48	mg/kg dry	3.71	ND	66.8	33.3-121	27.4	30
B8J1101-MSD1	8100452-01	2-Chloronaphthalene	2.39	mg/kg dry	3.71	ND	64.4	39-96.6	31.1*	30
B8J1101-MSD1	8100452-01	2-Chlorophenol	2.45	mg/kg dry	3.71	ND	66.1	37-105	37.6*	30
B8J1101-MSD1	8100452-01	2-Methylnaphthalene	2.49	mg/kg dry	3.71	ND	67.1	22.1-135	29.1	30
B8J1101-MSD1	8100452-01	2-Methylphenol	2.55	mg/kg dry	3.71	ND	68.7	35.8-108	32.3*	30
B8J1101-MSD1	8100452-01	2-Nitroaniline	2.77	mg/kg dry	3.71	ND	74.7	46.6-119	35.0*	30
B8J1101-MSD1	8100452-01	2-Nitrophenol	2.47	mg/kg dry	3.71	ND	66.6	15-102	40.8*	30
B8J1101-MSD1	8100452-01	3,3'-Dichlorobenzidine	1.98	mg/kg dry	3.71	ND	53.4	15-168	21.7	30
B8J1101-MSD1	8100452-01	3+4-Methylphenol	2.54	mg/kg dry	3.71	ND	68.6	37.5-108	34.3*	30
B8J1101-MSD1	8100452-01	3-Nitroaniline	2.58	mg/kg dry	3.71	ND	69.7*	81.4-181	30.2*	30
B8J1101-MSD1	8100452-01	4,6-Dinitro-2-methylphenol	1.17	mg/kg dry	3.71	ND	31.7	15-80.1	35.6*	30
B8J1101-MSD1	8100452-01	4-Bromophenyl-phenyl ether	2.43	mg/kg dry	3.71	ND	65.7	47.8-116	26.6	30
B8J1101-MSD1	8100452-01	4-Chloro-3-methylphenol	2.68	mg/kg dry	3.71	ND	72.3	42.5-109	31.2*	30
B8J1101-MSD1	8100452-01	4-Chloroaniline	2.34	mg/kg dry	3.71	ND	63.0	36.6-159	38.8*	30
B8J1101-MSD1	8100452-01	4-Chlorophenyl phenyl ether	2.43	mg/kg dry	3.71	ND	65.6	37.8-127	30.6*	30
B8J1101-MSD1	8100452-01	4-Nitroaniline	2.94	mg/kg dry	3.71	ND	79.3	65.5-172	27.6	30
B8J1101-MSD1	8100452-01	4-Nitrophenol	2.94	mg/kg dry	3.71	ND	79.3	15-149	38.5*	30
B8J1101-MSD1	8100452-01	Acenaphthene	2.40	mg/kg dry	3.71	ND	64.9	46.5-107	28.9	30
B8J1101-MSD1	8100452-01	Acenaphthylene	2.43	mg/kg dry	3.71	ND	65.4	44.9-104	27.9	30
B8J1101-MSD1	8100452-01	Acetophenone	2.16	mg/kg dry	3.71	ND	58.3	27.2-114	30.4*	30
B8J1101-MSD1	8100452-01	Anthracene	2.61	mg/kg dry	3.71	ND	70.5	40.6-106	26.4	30
B8J1101-MSD1	8100452-01	Atrazine	2.15	mg/kg dry	3.71	ND	58.0	48.9-137	16.7	30
B8J1101-MSD1	8100452-01	Benzaldehyde	0.0485	mg/kg dry	3.71	ND	1.31*	15-187		30
B8J1101-MSD1	8100452-01	Benzo(a)anthracene	2.48	mg/kg dry	3.71	0.0995	64.2	46.3-117	25.0	30
B8J1101-MSD1	8100452-01	Benzo(a)pyrene	2.64	mg/kg dry	3.71	0.0887	68.8	40.6-131	28.6	30
B8J1101-MSD1	8100452-01	Benzo(b)fluoranthene	2.92	mg/kg dry	3.71	0.107	76.0	41.1-134	27.8	30
B8J1101-MSD1	8100452-01	Benzo(g,h,i)perylene	2.77	mg/kg dry	3.71	0.0702	72.9	15-104	29.0	30
B8J1101-MSD1	8100452-01	Benzo(k)fluoranthene	2.71	mg/kg dry	3.71	0.0788	71.0	41-150	27.7	30
B8J1101-MSD1	8100452-01	Biphenyl	2.55	mg/kg dry	3.71	ND	68.7	42.6-106	24.5	30
B8J1101-MSD1	8100452-01	bis(2-chloroethoxy)methane	2.70	mg/kg dry	3.71	ND	72.8	42.9-110	36.0*	30
B8J1101-MSD1	8100452-01	bis(2-chloroethyl)ether	2.39	mg/kg dry	3.71	ND	64.6	37-110	37.9*	30
B8J1101-MSD1	8100452-01	bis(2-chloroisopropyl)ether	2.30	mg/kg dry	3.71	ND	61.9	31-132	34.2*	30
B8J1101-MSD1	8100452-01	bis(2-ethylhexyl)phthalate	2.86	mg/kg dry	3.71	ND	77.1	53.6-131	24.4	30
B8J1101-MSD1	8100452-01	Butylbenzylphthalate	2.80	mg/kg dry	3.71	ND	75.6	46.6-134	24.6	30
B8J1101-MSD1	8100452-01	Caprolactam	2.57	mg/kg dry	3.71	ND	69.3	38.6-126	26.6	30
B8J1101-MSD1	8100452-01	Carbazole	2.58	mg/kg dry	3.71	ND	69.6	53.7-153	25.1	30
B8J1101-MSD1	8100452-01	Chrysene	2.53	mg/kg dry	3.71	0.0909	65.7	40.5-125	24.4	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1101 (cont.) **Method: SW 846 8270D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1101-MSD1	8100452-01	Dibenzo(a,h)anthracene	2.62	mg/kg dry	3.71	ND	70.7	15-109	29.6	30
B8J1101-MSD1	8100452-01	Dibenzofuran	2.49	mg/kg dry	3.71	ND	67.2	15-138	26.1	30
B8J1101-MSD1	8100452-01	Diethylphthalate	2.70	mg/kg dry	3.71	ND	72.8	40.1-132	28.0	30
B8J1101-MSD1	8100452-01	Dimethylphthalate	2.62	mg/kg dry	3.71	ND	70.5	32.5-112	23.0	30
B8J1101-MSD1	8100452-01	Di-n-butylphthalate	2.69	mg/kg dry	3.71	ND	72.4	40.1-129	22.9	30
B8J1101-MSD1	8100452-01	Di-n-octylphthalate	3.01	mg/kg dry	3.71	ND	81.1	71.6-172	23.1	30
B8J1101-MSD1	8100452-01	Fluoranthene	2.56	mg/kg dry	3.71	0.167	64.7	43.8-116	26.6	30
B8J1101-MSD1	8100452-01	Fluorene	2.44	mg/kg dry	3.71	ND	65.8	43.7-110	28.1	30
B8J1101-MSD1	8100452-01	Hexachlorobenzene	2.25	mg/kg dry	3.71	ND	60.7	39.4-110	27.2	30
B8J1101-MSD1	8100452-01	Hexachlorobutadiene	2.19	mg/kg dry	3.71	ND	59.1	37.7-119	38.4*	30
B8J1101-MSD1	8100452-01	Hexachlorocyclopentadiene	1.60	mg/kg dry	3.71	ND	43.1	15-62.9	40.4*	30
B8J1101-MSD1	8100452-01	Hexachloroethane	2.21	mg/kg dry	3.71	ND	59.7	15-110	35.5*	30
B8J1101-MSD1	8100452-01	Indeno(1,2,3-cd)pyrene	2.69	mg/kg dry	3.71	0.0610	70.8	15-107	27.1	30
B8J1101-MSD1	8100452-01	Isophorone	3.08	mg/kg dry	3.71	ND	83.0	41.2-120	33.3*	30
B8J1101-MSD1	8100452-01	Naphthalene	2.27	mg/kg dry	3.71	ND	61.3	25.3-117	32.6*	30
B8J1101-MSD1	8100452-01	Nitrobenzene	2.55	mg/kg dry	3.71	ND	68.8	40.1-117	34.7*	30
B8J1101-MSD1	8100452-01	n-Nitroso-di-n-propylamine	2.51	mg/kg dry	3.71	ND	67.8	27.8-169	34.2*	30
B8J1101-MSD1	8100452-01	n-Nitrosodiphenylamine	2.70	mg/kg dry	3.71	ND	72.9	45.4-155	26.1	30
B8J1101-MSD1	8100452-01	Pentachlorophenol	0.801	mg/kg dry	3.71	ND	21.6	15-104	38.8*	30
B8J1101-MSD1	8100452-01	Phenanthrene	2.61	mg/kg dry	3.71	0.126	67.1	30-114	24.4	30
B8J1101-MSD1	8100452-01	Phenol	2.77	mg/kg dry	3.71	ND	74.8	28.3-131	38.8*	30
B8J1101-MSD1	8100452-01	Pyrene	2.77	mg/kg dry	3.71	0.158	70.5	33.7-116	24.3	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

METHOD BLANK SUMMARY

Batch ID: **B8J1101**

Lab Number	Sample Id	Extraction Date	Analysis Date
B8J1101-BLK1	BLK1	10/11/2018	10/11/2018 13:11
B8J1101-BS1	BS1	10/11/2018	10/11/2018 13:40
B8J1101-MS1	MS1	10/11/2018	10/11/2018 17:57
B8J1101-MSD1	MSD1	10/11/2018	10/11/2018 18:26
8100452-01	NTP-1A	10/11/2018	10/11/2018 14:10
8100452-02	NTP-2A	10/11/2018	10/11/2018 14:38
8100452-03	NTP-2B	10/11/2018	10/11/2018 15:07
8100452-04	NTP-3B	10/11/2018	10/11/2018 15:35
8100452-05	NTP-4B	10/11/2018	10/11/2018 16:04
8100452-06	NTP-6	10/11/2018	10/11/2018 16:32
8100452-07	NTP-7	10/11/2018	10/11/2018 17:01
8100452-08	STP-1B	10/11/2018	10/11/2018 17:29
8100452-09	STP-2B	10/11/2018	10/11/2018 17:26
8100452-10	STP-3B	10/11/2018	10/11/2018 14:58
8100452-11	STP-4A	10/11/2018	10/11/2018 15:28
8100452-12	STP-4B	10/11/2018	10/11/2018 15:57
8100452-13	STP-5	10/11/2018	10/11/2018 16:27
8100452-14	STP-7	10/11/2018	10/11/2018 16:57

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-D	Project:	Ridgewood
Sequence:	S8H0618		

Lab Sample ID:	**S8H0618-TUN1**	Injection Date:	08/02/2018	Injection Time:	20:15
Lab File ID:	DS17873a.D				

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	47.1	PASS
68	Less than 2% of 69	0.689	PASS
69	Less than 100% of 198	47.2	PASS
70	Less than 2% of 69	0.553	PASS
127	40 - 60% of 198	53.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.83	PASS
275	10 - 30% of 198	22	PASS
365	1 - 100% of 198	2.28	PASS
441	0.01 - 99.9% of 443	70.5	PASS
442	40 - 100% of 198	73.6	PASS
443	17 - 23% of 442	19.2	PASS

Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Cal Standard	S8H0618-CAL1	DS17875.D	08/02/2018	21:02.00
Cal Standard	S8H0618-CAL2	DS17876.D	08/02/2018	21:31.00
Cal Standard	S8H0618-CAL3	DS17877.D	08/02/2018	22:01.00
Cal Standard	S8H0618-CAL4	DS17879.D	08/02/2018	23:00.00
Cal Standard	S8H0618-CAL5	DS17880.D	08/02/2018	23:29.00
Cal Standard	S8H0618-CAL6	DS17881.D	08/02/2018	23:59.00

F-V

DFTPP

```
Data File : G:\HPCHEM\D\DATA\20180802\DS17873A.D          Vial: 2
Acq On    :  2 Aug 2018  20:15                      Operator: GCH
Sample    : SEQ-TUN                                 Inst    : GCMS-D
Misc      :                                         Multiplr: 1.00
MS Integration Params: rteint.p
Method    : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title     : BNA Extractables GC/MS 8270D
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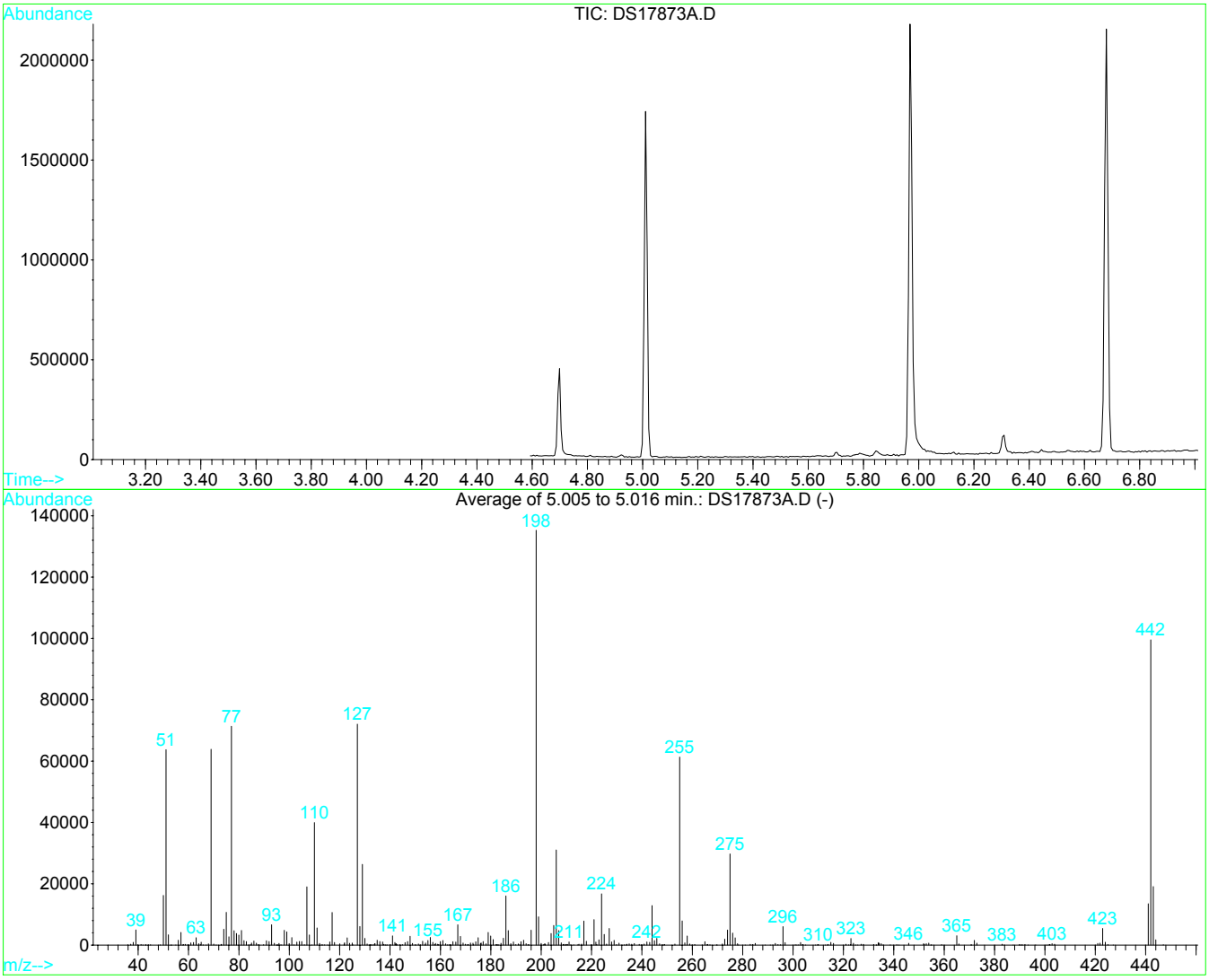

Spectrum Information: Average of 5.005 to 5.016 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.1	63731	PASS
68	69	0.00	2	0.7	440	PASS
69	198	0.00	100	47.2	63846	PASS
70	69	0.00	2	0.6	353	PASS
127	198	40	60	53.3	72064	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	135253	PASS
199	198	5	9	6.8	9244	PASS
275	198	10	30	22.0	29723	PASS
365	198	1	100	2.3	3084	PASS
441	443	0.01	100	70.5	13472	PASS
442	198	40	100	73.6	99555	PASS
443	442	17	23	19.2	19099	PASS

DS17873A.D 0802ABN.M Mon Aug 06 19:16:14 2018 SS

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-A	Project:	Ridgewood
Sequence:	S8H2831		

Lab Sample ID:	**S8H2831-TUN1**	Injection Date:	08/24/2018	Injection Time:	17:07
Lab File ID:	AS06906.D				

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	43.6	PASS
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	36.3	PASS
70	Less than 2% of 69	0.577	PASS
127	40 - 60% of 198	44.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.06	PASS
275	10 - 30% of 198	25.6	PASS
365	1 - 100% of 198	2.84	PASS
441	0.01 - 99.9% of 443	78.2	PASS
442	40 - 100% of 198	68.2	PASS
443	17 - 23% of 442	19.3	PASS

Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Cal Standard	S8H2831-CAL1	AS06908.D	08/24/2018	17:58.00
Cal Standard	S8H2831-CAL2	AS06909.D	08/24/2018	18:26.00
Cal Standard	S8H2831-CAL3	AS06911.D	08/24/2018	19:23.00
Cal Standard	S8H2831-CAL4	AS06912.D	08/24/2018	19:52.00
Cal Standard	S8H2831-CAL5	AS06913.D	08/24/2018	20:20.00
Cal Standard	S8H2831-CAL6	AS06914.D	08/24/2018	20:49.00

F-V

DFTPP

```
Data File : G:\HPCHEM\A\DATA\20180824\AS06906.D          Vial: 2
Acq On    : 24 Aug 2018  17:07                    Operator: GCH
Sample    : SEQ-TUN                               Inst    : GCMS-A
Misc      :                                       Multiplr: 1.00
MS Integration Params: RTEINT.P
Method    : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title     : BNA Extractables GC/MS 8270D
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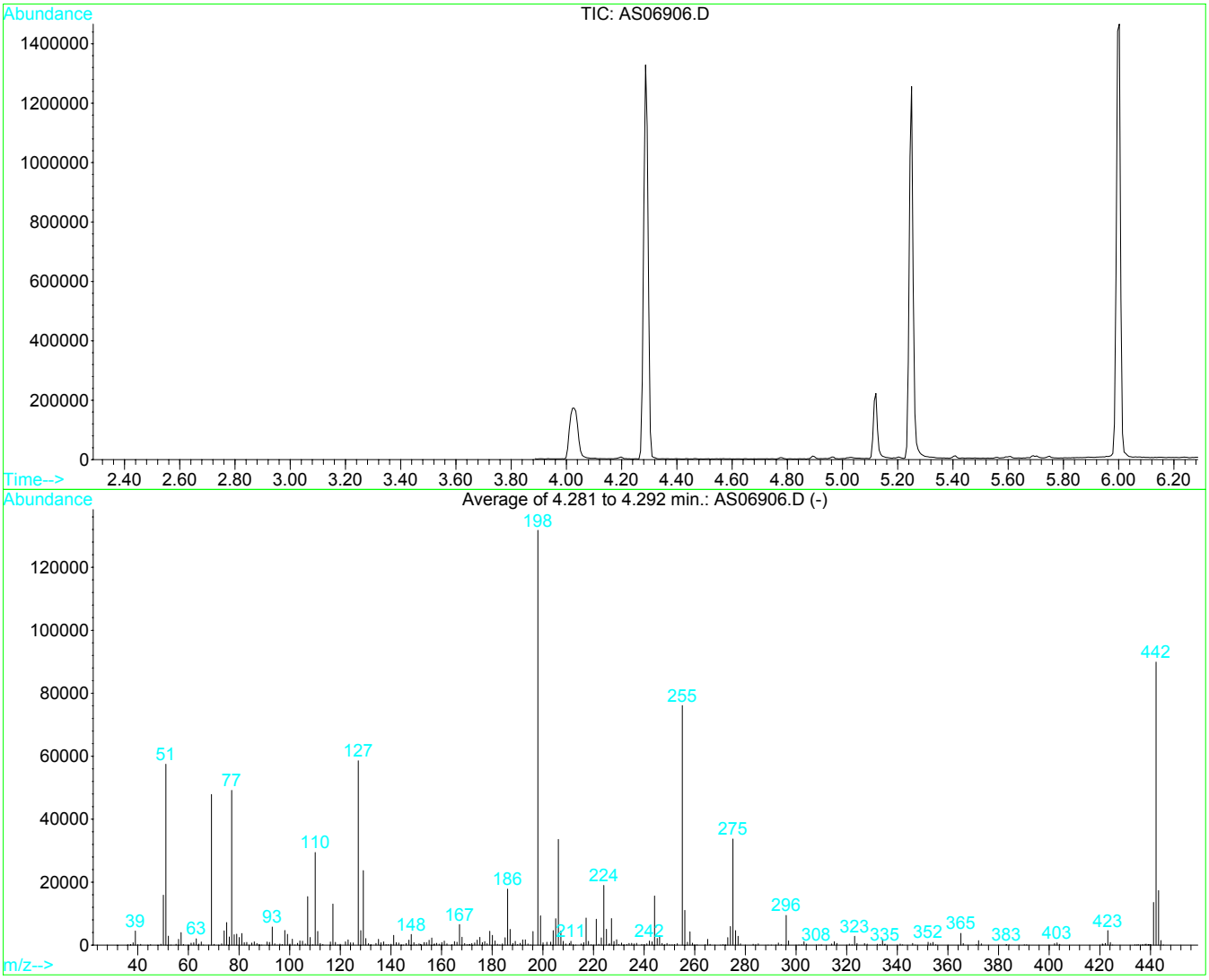


Spectrum Information: Average of 4.281 to 4.292 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.6	57469	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	36.3	47853	PASS
70	69	0.00	2	0.6	276	PASS
127	198	40	60	44.4	58541	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	131757	PASS
199	198	5	9	7.1	9308	PASS
275	198	10	30	25.6	33699	PASS
365	198	1	100	2.8	3748	PASS
441	443	0.01	100	78.2	13568	PASS
442	198	40	100	68.2	89917	PASS
443	442	17	23	19.3	17357	PASS

AS06906.D 0824ABN.M Tue Aug 28 18:57:50 2018 SS

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-A	Project:	Ridgewood
Sequence:	S8J1212		

Lab Sample ID:	**S8J1212-TUN1**	Injection Date:	10/11/2018	Injection Time:	14:09
Lab File ID:	AS07394.D				

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	41.1	PASS
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	35.2	PASS
70	Less than 2% of 69	0.184	PASS
127	40 - 60% of 198	43.7	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.07	PASS
275	10 - 30% of 198	26.7	PASS
365	1 - 100% of 198	2.93	PASS
441	0.01 - 99.9% of 443	75.9	PASS
442	40 - 100% of 198	66	PASS
443	17 - 23% of 442	20.3	PASS

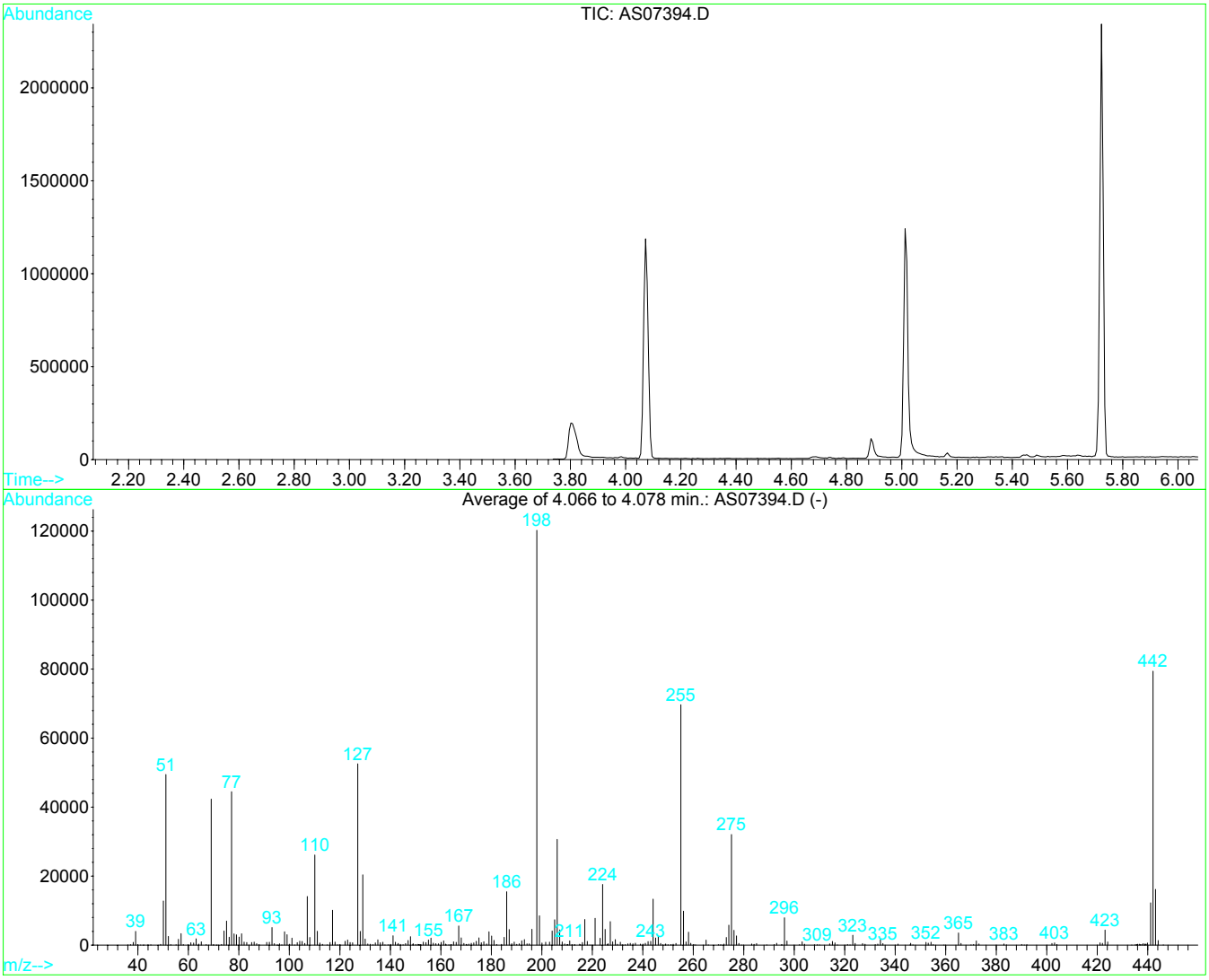
Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Calibration Check	S8J1212-CCV1	AS07395.D	10/11/2018	14:28.00
STP-3B	8100452-10	AS07396.D	10/11/2018	14:58.00
STP-4A	8100452-11	AS07397.D	10/11/2018	15:28.00
STP-4B	8100452-12	AS07398.D	10/11/2018	15:57.00
STP-5	8100452-13	AS07399.D	10/11/2018	16:27.00
STP-7	8100452-14	AS07400.D	10/11/2018	16:57.00
STP-2B	8100452-09	AS07401.D	10/11/2018	17:26.00

F-V

DFTPP

Data File : G:\HPCHEM\A\DATA\20181011\AS07394.D Vial: 2
Acq On : 11 Oct 2018 14:09 Operator: GCH
Sample : SEQ-TUN Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: LSTINT.P
Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D



Spectrum Information: Average of 4.066 to 4.078 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.1	49448	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	35.2	42314	PASS
70	69	0.00	2	0.2	78	PASS
127	198	40	60	43.7	52547	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	120232	PASS
199	198	5	9	7.1	8503	PASS
275	198	10	30	26.7	32045	PASS
365	198	1	100	2.9	3522	PASS
441	443	0.01	100	75.9	12261	PASS
442	198	40	100	66.0	79395	PASS
443	442	17	23	20.3	16148	PASS

AS07394.D 0824ABN.M Fri Oct 12 15:05:29 2018 SS

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-D	Project:	Ridgewood
Sequence:	S8J1213		

Lab Sample ID:	**S8J1213-TUN1**	Injection Date:	10/11/2018	Injection Time:	12:24
Lab File ID:	DS18767.D				

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	52.4	PASS
68	Less than 2% of 69	0.199	PASS
69	Less than 100% of 198	55.1	PASS
70	Less than 2% of 69	0.981	PASS
127	40 - 60% of 198	58.7	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.08	PASS
275	10 - 30% of 198	18.8	PASS
365	1 - 100% of 198	2.14	PASS
441	0.01 - 99.9% of 443	58.2	PASS
442	40 - 100% of 198	55.2	PASS
443	17 - 23% of 442	22	PASS

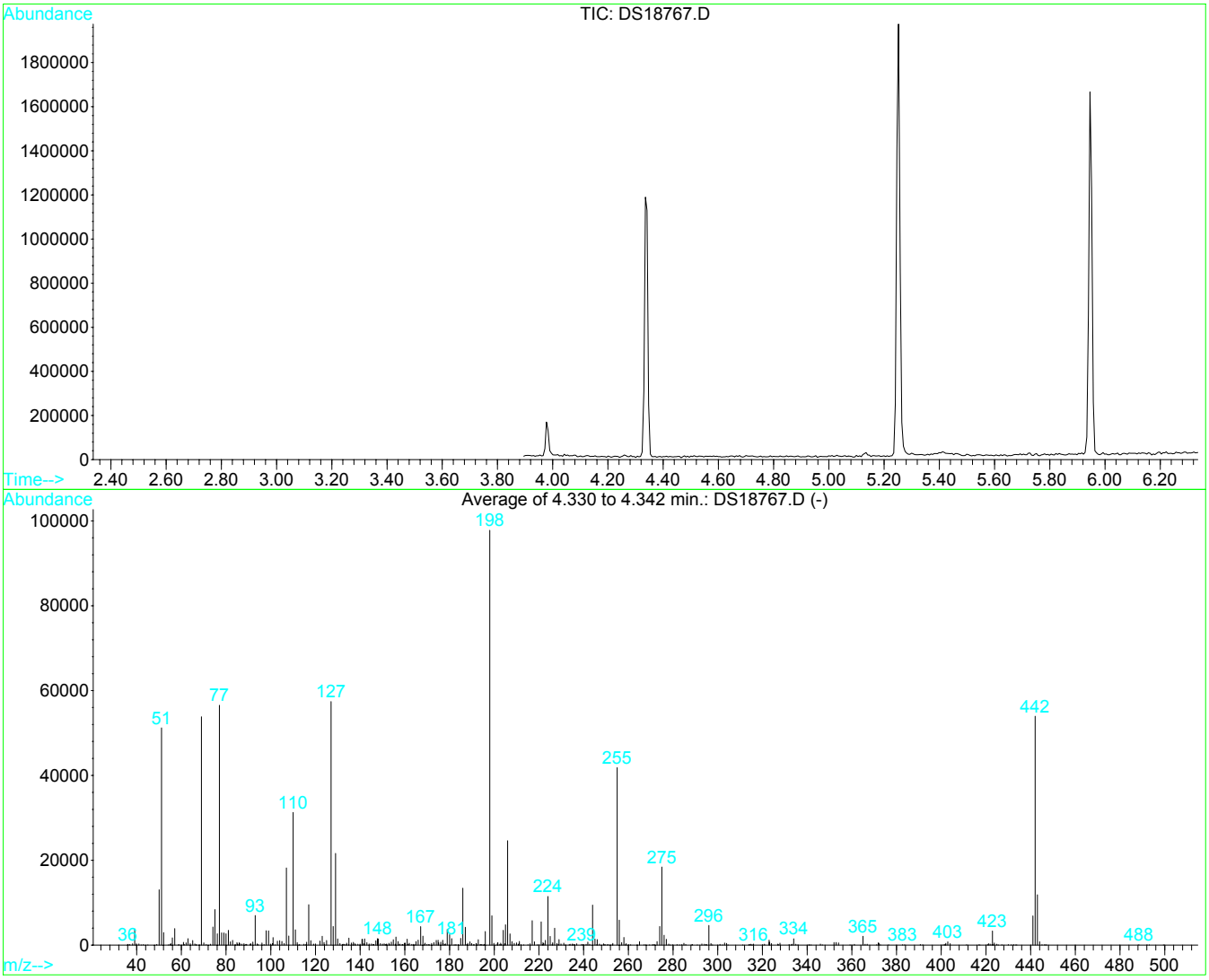
Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Calibration Check	S8J1213-CCV1	DS18768.D	10/11/2018	12:41.00
Blank	B8J1101-BLK1	DS18769.D	10/11/2018	13:11.00
LCS	B8J1101-BS1	DS18770.D	10/11/2018	13:40.00
NTP-1A	8100452-01	DS18771.D	10/11/2018	14:10.00
NTP-2A	8100452-02	DS18772.D	10/11/2018	14:38.00
NTP-2B	8100452-03	DS18773.D	10/11/2018	15:07.00
NTP-3B	8100452-04	DS18774.D	10/11/2018	15:35.00
NTP-4B	8100452-05	DS18775.D	10/11/2018	16:04.00
NTP-6	8100452-06	DS18776.D	10/11/2018	16:32.00
NTP-7	8100452-07	DS18777.D	10/11/2018	17:01.00
STP-1B	8100452-08	DS18778.D	10/11/2018	17:29.00
Matrix Spike	B8J1101-MS1	DS18779.D	10/11/2018	17:57.00
Matrix Spike Dup	B8J1101-MSD1	DS18780.D	10/11/2018	18:26.00

F-V

DFTPP

Data File : G:\HPCHEM\D\DATA\20181011\DS18767.D Vial: 2
Acq On : 11 Oct 2018 12:24 Operator: GCH
Sample : SEQ-TUN Inst : GCMS-D
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D



Spectrum Information: Average of 4.330 to 4.342 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	52.4	51204	PASS
68	69	0.00	2	0.2	107	PASS
69	198	0.00	100	55.1	53840	PASS
70	69	0.00	2	1.0	528	PASS
127	198	40	60	58.7	57429	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	97789	PASS
199	198	5	9	7.1	6927	PASS
275	198	10	30	18.8	18425	PASS
365	198	1	100	2.1	2097	PASS
441	443	0.01	100	58.2	6902	PASS
442	198	40	100	55.2	53958	PASS
443	442	17	23	22.0	11861	PASS

DS18767.D 0802ABN.M Tue Oct 16 12:43:27 2018 SS

Compound List Report GCMS-D

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Aug 07 11:07:34 2018
Response via : Initial Calibration
Total Cpnds : 92

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dichlorobenzene-d4	152	6.24	1.000	A	2	A	B
2		1,4-Dioxane	88	2.93	0.470	A	2	A	B
3		N-nitrosodimethylamine	42	3.34	0.534	A	2	A	B
4		Pyridine	79	3.40	0.544	A	1	A	B
5	S	2-Fluorophenol	112	4.91	0.787	A	3	A	B
6		Benzaldehyde	77	5.80	0.929	A	3	A	B
7		Aniline	93	5.90	0.946	A	2	A	B
8	S	Phenol-d6	99	5.84	0.935	A	2	A	B
9	M C	Phenol	94	5.85	0.937	A	2	A	B
10		bis(2-Chloroethyl)ether	93	5.95	0.953	A	2	A	B
11	M	2-Chlorophenol	128	6.04	0.967	A	2	A	B
12		1,3-Dichlorobenzene	146	6.19	0.992	A	3	A	B
13	M C	1,4-Dichlorobenzene	146	6.26	1.003	A	3	A	B
14		Benzyl Alcohol	108	6.36	1.018	A	2	A	B
15		1,2-Dichlorobenzene	146	6.42	1.028	A	3	A	B
16		2-Methylphenol	108	6.46	1.034	A	2	A	B
17		bis(2-Chloroisopropyl)ether	45	6.49	1.039	A	2	A	B
18		Acetophenone	105	6.63	1.062	A	2	A	B
19		3+4-Methylphenol	108	6.61	1.058	A	2	A	B
20	M P	n-Nitroso-di-n-propylamine	70	6.62	1.060	A	2	A	B
21		Hexachloroethane	117	6.77	1.084	A	3	A	B
22	I	Naphthalene-d8	136	7.53	1.000	A	3	A	B
23	S	Nitrobenzene-d5	82	6.79	0.902	A	2	A	B
24		Nitrobenzene	77	6.81	0.905	A	2	A	B
25		Isophorone	82	7.04	0.935	A	2	A	B
26	C	2-Nitrophenol	139	7.13	0.947	A	2	A	B
27		2,4-Dimethylphenol	107	7.14	0.949	A	3	A	B
28		bis(2-Chloroethoxy)methane	93	7.23	0.961	A	2	A	B
29	C	2,4-Dichlorophenol	162	7.37	0.979	A	2	A	B
30		Benzoic Acid	105	7.20	0.957	QO	2	A	B
31	M	1,2,4-Trichlorobenzene	180	7.46	0.991	A	2	A	B
32		Naphthalene	128	7.55	1.003	A	3	A	B
33		4-Chloroaniline	127	7.58	1.006	A	2	A	B
34	C	Hexachlorobutadiene	225	7.66	1.018	A	3	A	B
35		Caprolactam	113	7.90	1.050	A	2	A	B
36	M C	4-Chloro-3-methylphenol	107	8.04	1.068	A	2	A	B
37		2-Methylnaphthalene	142	8.23	1.094	A	2	A	B
38		1-Methylnaphtalene	142	8.34	1.108	A	2	A	B
39	I	Acenaphthene-d10	164	9.29	1.000	A	2	A	B
40	P	Hexachlorocyclopentadiene	237	8.39	0.903	A	2	A	B
41		1,2,4,5-Tetrachlorobenzene	216	8.41	0.905	A	2	A	B
42	C	2,4,6-Trichlorophenol	196	8.51	0.916	A	3	A	B
43		2,4,5-Trichlorophenol	196	8.55	0.920	A	3	A	B
44	S	2-Fluorobiphenyl	172	8.58	0.924	A	2	A	B
45		Biphenyl	154	8.69	0.936	A	2	A	B
46		2-Chloronaphthalene	162	8.73	0.939	A	2	A	B
47		2-Nitroaniline	138	8.81	0.948	A	2	A	B
48		Dimethylphthalate	163	8.96	0.965	A	2	A	B
49		Acenaphthylene	152	9.15	0.985	A	2	A	B
50		2,6-Dinitrotoluene	165	9.04	0.973	A	2	A	B
51		3-Nitroaniline	138	9.22	0.992	A	2	A	B
52	M C	Acenaphthene	153	9.32	1.004	A	2	A	B
53	P	2,4-Dinitrophenol	184	9.32	1.003	QO	1	A	B
54		Dibenzofuran	168	9.49	1.022	A	2	A	B
55	M P	4-Nitrophenol	65	9.36	1.007	QO	2	A	B
56	M	2,4-Dinitrotoluene	165	9.45	1.017	A	2	A	B
57		2,3,4,6-Tetrachlorophenol	232	9.61	1.034	A	2	A	L
58		Fluorene	166	9.84	1.059	A	2	A	B
59		Diethylphthalate	149	9.66	1.040	A	2	A	B
60		4-Chlorophenyl phenyl ether	204	9.81	1.056	A	2	A	B
61		4-Nitroaniline	138	9.83	1.058	A	2	A	B
62	I	Phenanthrene-d10	188	10.79	1.000	A	2	A	B
63		4,6-Dinitro-2-methylphenol	198	9.86	0.914	QO	2	A	B

64		n-Nitrosodiphenylamine	169	9.92	0.920	A	2	A	B
65		1,2-Diphenylhydrazine	77	9.97	0.924	A	2	A	B
66	S	2,4,6-Tribromophenol	330	10.08	0.934	A	2	A	B
67		4-Bromophenyl-phenyl ether	248	10.30	0.955	A	2	A	B
68		Hexachlorobenzene	284	10.40	0.964	A	2	A	B
69		Atrazine	200	10.43	0.967	QO	2	A	B
70	M C	Pentachlorophenol	266	10.59	0.981	QO	2	A	B
71		Phenanthrene	178	10.81	1.002	A	2	A	B
72		Anthracene	178	10.86	1.007	A	2	A	B
73		Carbazole	167	11.01	1.020	A	2	A	B
74		Di-n-butylphthalate	149	11.29	1.046	A	2	A	B
75	C	Fluoranthene	202	12.01	1.113	A	2	A	B
76	I	Chrysene-d12	240	13.64	1.000	A	2	A	B
77		Benzidine	184	12.11	0.887	A	2	A	B
78	M	Pyrene	202	12.26	0.899	A	2	A	B
79	S	p-Terphenyl-d14	244	12.37	0.907	A	2	A	B
80		Butylbenzylphthalate	149	12.88	0.944	A	2	A	B
81		Benzo(a)anthracene	228	13.63	0.999	A	2	A	B
82		3,3'-Dichlorobenzidine	252	13.56	0.994	A	2	A	B
83		Chrysene	228	13.68	1.002	A	2	A	B
84		bis(2-Ethylhexyl)phthalate	149	13.53	0.992	A	2	A	B
85	I	Perylene-d12	264	15.71	1.000	A	2	A	B
86	C	Di-n-octylphthalate	149	14.33	0.913	A	1	A	B
87		Benzo(b)fluoranthene	252	15.07	0.960	A	3	A	B
88		Benzo(k)fluoranthene	252	15.11	0.962	A	3	A	B
89	C	Benzo(a)pyrene	252	15.61	0.994	A	3	A	L
90		Indeno(1,2,3-cd)pyrene	276	17.93	1.141	A	2	A	B
91		Dibenzo(a,h)anthracene	278	17.94	1.142	A	2	A	B
92		Benzo(g,h,i)perylene	276	18.61	1.185	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

0802ABN.M Tue Aug 07 11:09:45 2018 SS

Response Factor Report GCMS-D

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Aug 07 11:07:34 2018
Response via : Initial Calibration

Calibration Files
2 =DS17875.D 5 =DS17876.D 10 =DS17877.D
50 =DS17879.D 60 =DS17880.D 80 =DS17881.D

		Compound	2	5	10	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)		1,4-Dioxane		0.657	0.747	0.699	0.656	0.597	0.671	8.30
3)		N-nitrosodimethylam	0.639	0.745	0.800	0.791	0.688	0.661	0.721	9.45
4)		Pyridine	1.847	1.740	1.839	1.883	1.681	1.654	1.774	5.38
5)	S	2-Fluorophenol	1.207	1.351	1.426	1.456	1.406	1.380	1.371	6.42
6)		Benzaldehyde	0.982	1.059	1.091	1.050	0.953	0.866	1.000	8.33
7)		Aniline	2.080	2.098	2.135	2.113	2.068	1.998	2.082	2.28
8)	S	Phenol-d6	1.598	1.727	1.824	1.805	1.768	1.725	1.741	4.63
9)	M C	Phenol	1.704	1.834	1.850	1.753	1.710	1.640	1.749	4.63
10)		bis(2-Chloroethyl)e	1.494	1.428	1.509	1.431	1.424	1.369	1.442	3.55
11)	M	2-Chlorophenol	1.609	1.565	1.571	1.485	1.457	1.423	1.518	4.84
12)		1,3-Dichlorobenzene	1.806	1.679	1.716	1.631	1.597	1.579	1.668	5.06
13)	M C	1,4-Dichlorobenzene	1.757	1.622	1.673	1.546	1.521	1.481	1.600	6.48
14)		Benzyl Alcohol	0.809	0.827	0.877	0.960	0.968	0.975	0.903	8.26
15)		1,2-Dichlorobenzene	1.752	1.668	1.674	1.539	1.519	1.494	1.608	6.48
16)		2-Methylphenol	1.276	1.304	1.320	1.281	1.279	1.290	1.292	1.33
17)		bis(2-Chloroisoprop	2.861	2.542	2.464	2.272	2.285	2.201	2.437	10.00
18)		Acetophenone	1.837	2.042	1.946	1.846	1.821	1.800	1.882	4.95
19)		3+4-Methylphenol	1.283	1.387	1.506	1.403	1.417	1.402	1.400	5.11
20)	M P	n-Nitroso-di-n-prop	1.091	1.036	0.996	0.929	0.953	0.961	0.994	6.03
21)		Hexachloroethane	0.701	0.677	0.656	0.640	0.642	0.654	0.662	3.55
22)	I	Naphthalene-d8	----------ISTD----------							
23)	S	Nitrobenzene-d5	0.375	0.361	0.382	0.375	0.381	0.360	0.372	2.63
24)		Nitrobenzene	0.385	0.386	0.398	0.390	0.396	0.370	0.388	2.54
25)		Isophorone	0.589	0.581	0.604	0.569	0.583	0.549	0.579	3.25
26)	C	2-Nitrophenol	0.171	0.186	0.190	0.213	0.213	0.211	0.197	9.01
27)		2,4-Dimethylphenol	0.324	0.329	0.349	0.327	0.328	0.315	0.329	3.42
28)		bis(2-Chloroethoxy)	0.389	0.408	0.431	0.424	0.415	0.405	0.412	3.64
29)	C	2,4-Dichlorophenol	0.256	0.287	0.312	0.310	0.310	0.293	0.295	7.30
30)		Benzoic Acid	0.018	0.018	0.020	0.058	0.074	0.093	0.047	69.33
31)	M	1,2,4-Trichlorobenz	0.363	0.337	0.352	0.333	0.332	0.314	0.338	4.97
32)		Naphthalene	1.204	1.203	1.234	1.104	1.057	0.971	1.129	9.11
33)		4-Chloroaniline	0.461	0.410	0.449	0.454	0.456	0.430	0.443	4.41
34)	C	Hexachlorobutadiene	0.158	0.155	0.158	0.149	0.150	0.141	0.152	4.34
35)		Caprolactam	0.108	0.109	0.123	0.138	0.146	0.135	0.126	12.46
36)	M C	4-Chloro-3-methylph	0.272	0.328	0.311	0.321	0.326	0.304	0.310	6.79
37)		2-Methylnaphthalene	0.762	0.786	0.767	0.695	0.670	0.596	0.712	10.21
38)		1-Methylnaphtalene	0.757	0.787	0.759	0.649	0.648	0.579	0.697	11.88
39)	I	Acenaphthene-d10	----------ISTD----------							
40)	P	Hexachlorocyclopent	0.182	0.219	0.231	0.275	0.279	0.287	0.246	16.97
41)		1,2,4,5-Tetrachloro	0.619	0.593	0.581	0.522	0.511	0.502	0.555	8.88
42)	C	2,4,6-Trichlorophen	0.384	0.373	0.373	0.400	0.393	0.391	0.386	2.82
43)		2,4,5-Trichlorophen	0.350	0.355	0.371	0.402	0.401	0.398	0.380	6.26
44)	S	2-Fluorobiphenyl	1.643	1.600	1.545	1.422	1.354	1.296	1.477	9.50
45)		Biphenyl	1.805	1.777	1.818	1.653	1.564	1.508	1.688	7.84
46)		2-Chloronaphthalene	1.452	1.434	1.423	1.294	1.257	1.216	1.346	7.60
47)		2-Nitroaniline	0.380	0.437	0.442	0.499	0.490	0.484	0.455	9.86
48)		Dimethylphthalate	1.557	1.459	1.498	1.400	1.325	1.279	1.420	7.44
49)		Acenaphthylene	2.329	2.308	2.331	2.057	1.972	1.842	2.140	9.90
50)		2,6-Dinitrotoluene	0.356	0.355	0.351	0.366	0.356	0.353	0.356	1.40
51)		3-Nitroaniline	0.385	0.374	0.414	0.415	0.411	0.404	0.401	4.25
52)	M C	Acenaphthene	1.440	1.437	1.455	1.323	1.260	1.195	1.352	8.06
53)	P	2,4-Dinitrophenol	0.007	0.023	0.049	0.179	0.194	0.201	0.109	84.26
54)		Dibenzofuran	2.006	1.900	1.962	1.723	1.658	1.560	1.801	10.00
55)	M P	4-Nitrophenol	0.131	0.098	0.142	0.227	0.246	0.250	0.182	36.40
56)	M	2,4-Dinitrotoluene	0.393	0.408	0.458	0.497	0.486	0.476	0.453	9.47
57)		2,3,4,6-Tetrachloro	0.217	0.216	0.243	0.273	0.269	0.274	0.249	11.02

(#) = Out of Range

Response Factor Report GCMS-D

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Aug 07 11:07:34 2018
Response via : Initial Calibration

Calibration Files
2 =DS17875.D 5 =DS17876.D 10 =DS17877.D
50 =DS17879.D 60 =DS17880.D 80 =DS17881.D

		Compound	2	5	10	50	60	80	Avg	%RSD
58)		Fluorene	1.634	1.622	1.615	1.480	1.371	1.281	1.501	9.95
59)		Diethylphthalate	1.470	1.525	1.501	1.418	1.344	1.282	1.423	6.66
60)		4-Chlorophenyl phen	0.674	0.675	0.705	0.680	0.631	0.612	0.663	5.22
61)		4-Nitroaniline	0.341	0.336	0.396	0.415	0.397	0.384	0.378	8.57
62)	I	Phenanthrene-d10	----------	ISTD	----------					
63)		4,6-Dinitro-2-methy	0.030	0.061	0.088	0.147	0.152	0.151	0.105	50.36
64)		n-Nitrosodiphenylam	0.706	0.706	0.729	0.690	0.685	0.630	0.691	4.89
65)		1,2-Diphenylhydrazi	0.907	0.943	0.885	0.882	0.848	0.789	0.876	6.01
66)	S	2,4,6-Tribromopheno	0.076	0.078	0.078	0.091	0.094	0.090	0.085	9.35
67)		4-Bromophenyl-pheny	0.188	0.182	0.205	0.195	0.195	0.187	0.192	4.34
68)		Hexachlorobenzene	0.239	0.237	0.226	0.211	0.211	0.202	0.221	6.90
69)		Atrazine	0.166	0.182	0.186	0.175	0.178	0.171	0.176	4.00
70)	M C	Pentachlorophenol	0.012	0.018	0.029	0.083	0.092	0.095	0.055	71.67#
71)		Phenanthrene	1.245	1.224	1.263	1.116	1.057	0.975	1.147	10.14
72)		Anthracene	1.207	1.209	1.280	1.169	1.097	1.004	1.161	8.40
73)		Carbazole	1.132	1.177	1.243	1.133	1.076	0.988	1.125	7.75
74)		Di-n-butylphthalate	1.399	1.477	1.532	1.385	1.265	1.160	1.370	9.99
75)	C	Fluoranthene	1.235	1.275	1.372	1.204	1.111	1.041	1.206	9.77
76)	I	Chrysene-d12	----------	ISTD	----------					
77)		Benzidine	0.688	0.803	0.803	0.878	0.856	0.765	0.799	8.47
78)	M	Pyrene	1.553	1.630	1.611	1.493	1.495	1.414	1.533	5.30
79)	S	p-Terphenyl-d14	0.905	0.922	0.952	0.907	0.916	0.883	0.914	2.49
80)		Butylbenzylphthalat	0.782	0.772	0.834	0.822	0.844	0.795	0.808	3.63
81)		Benzo(a)anthracene	1.384	1.306	1.354	1.274	1.270	1.228	1.303	4.46
82)		3,3'-Dichlorobenzid	0.418	0.438	0.442	0.429	0.429	0.412	0.428	2.64
83)		Chrysene	1.322	1.262	1.314	1.226	1.203	1.143	1.245	5.50
84)		bis(2-Ethylhexyl)ph	1.027	1.017	1.107	1.112	1.102	1.056	1.070	3.96
85)	I	Perylene-d12	----------	ISTD	----------					
86)	C	Di-n-octylphthalate	1.629	1.719	1.779	1.752	1.706	1.623	1.701	3.76
87)		Benzo(b)fluoranthen	1.135	1.133	1.122	1.096	1.086	1.054	1.104	2.88
88)		Benzo(k)fluoranthen	1.180	1.154	1.130	1.081	1.109	1.083	1.123	3.50
89)	C	Benzo(a)pyrene	1.083	1.120	1.161	1.150	1.138	1.104	1.126	2.60
90)		Indeno(1,2,3-cd)pyr	1.241	1.215	1.248	1.226	1.273	1.223	1.238	1.71
91)		Dibenzo(a,h)anthrac	1.038	1.064	1.080	1.084	1.085	1.064	1.069	1.70
92)		Benzo(g,h,i)perylen	1.021	1.009	1.031	1.063	1.076	1.052	1.042	2.48

(#) = Out of Range

Response Factor Report GCMS-A

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Aug 27 15:35:59 2018
Response via : Initial Calibration

Calibration Files
2 =AS06908.D 5 =AS06909.D 20 =AS06911.D
50 =AS06912.D 60 =AS06913.D 80 =AS06914.D

		Compound	2	5	20	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)		Pyridine	1.251	1.239	1.295	1.281	1.270	1.298	1.272	1.85
3)		N-Nitroso-dimethyla	0.594	0.567	0.600	0.588	0.590	0.605	0.591	2.23
4)	S	2-Fluorophenol	1.017	0.977	1.115	1.150	1.198	1.212	1.111	8.65
5)		Benzaldehyde	0.922	0.945	0.957	0.914	0.891	0.840	0.911	4.62
6)		Aniline	1.439	1.424	1.591	1.589	1.538	1.512	1.516	4.75
7)	S	Phenol-d6	1.137	1.163	1.365	1.396	1.407	1.423	1.315	9.85
8)		Phenol	1.239	1.276	1.415	1.442	1.447	1.464	1.381	7.04
9)		bis(2-Chloroethyl)e	1.179	1.224	1.225	1.217	1.233	1.194	1.212	1.72
10)		2-Chlorophenol	1.102	1.135	1.303	1.320	1.330	1.351	1.257	8.65
11)		1,3-Dichlorobenzene	1.613	1.597	1.691	1.650	1.652	1.653	1.643	2.03
12)		1,4-Dichlorobenzene	1.608	1.596	1.627	1.612	1.595	1.591	1.605	0.86
13)		Benzyl Alcohol	0.660	0.718	0.797	0.801	0.815	0.830	0.770	8.64
14)		1,2-Dichlorobenzene	1.520	1.506	1.606	1.572	1.554	1.574	1.555	2.38
15)		2-Methylphenol	0.974	1.015	1.100	1.085	1.078	1.094	1.058	4.83
16)		bis(2-Chloroisoprop	2.515	2.504	2.581	2.466	2.436	2.418	2.487	2.40
17)		Acetophenone	1.567	1.576	1.635	1.578	1.581	1.606	1.591	1.61
18)		3+4-Methylphenol	0.956	0.975	1.132	1.162	1.161	1.189	1.096	9.37
19)		n-Nitroso-di-n-prop	0.639	0.670	0.705	0.691	0.681	0.691	0.680	3.39
20)		Hexachloroethane	0.546	0.543	0.569	0.575	0.575	0.581	0.565	2.83
21)	I	Naphthalene-d8	----------ISTD----------							
22)	S	Nitrobenzene-d5	0.221	0.213	0.252	0.313	0.308	0.313	0.270	17.49
23)		Nitrobenzene	0.330	0.328	0.343	0.331	0.327	0.326	0.331	1.87
24)		Isophorone	0.454	0.469	0.510	0.496	0.494	0.496	0.487	4.28
25)		2-Nitrophenol	0.057	0.063	0.106	0.141	0.162	0.174	0.117	42.68
26)		2,4-Dimethylphenol	0.267	0.262	0.286	0.284	0.282	0.286	0.278	3.74
27)		bis(2-Chloroethoxy)	0.345	0.329	0.359	0.342	0.341	0.345	0.344	2.77
28)		2,4-Dichlorophenol	0.223	0.220	0.284	0.308	0.309	0.317	0.277	16.01
29)		Benzoic Acid	0.011	0.015	0.035	0.043	0.061	0.080	0.041	65.29
30)		1,2,4-Trichlorobenz	0.375	0.369	0.387	0.380	0.375	0.376	0.377	1.62
31)		Naphthalene	1.115	1.094	1.142	1.087	1.073	1.068	1.097	2.55
32)		4-Chloroaniline	0.347	0.362	0.383	0.323	0.304	0.304	0.337	9.63
33)		Hexachlorobutadiene	0.233	0.232	0.242	0.235	0.232	0.236	0.235	1.64
34)		Caprolactam	0.066	0.070	0.090	0.095	0.096	0.100	0.086	16.61
35)		4-Chloro-3-methylph	0.185	0.192	0.242	0.254	0.260	0.263	0.233	15.03
36)		2-Methylnaphthalene	0.711	0.706	0.754	0.713	0.709	0.698	0.715	2.75
37)		1-Methylnaphthalene	0.686	0.681	0.714	0.677	0.669	0.663	0.682	2.62
38)	I	Acenaphthene-d10	----------ISTD----------							
39)		Hexachlorocyclopent	0.304	0.307	0.406	0.456	0.471	0.481	0.404	19.94
40)		1,2,4,5-Tetrachloro	0.732	0.719	0.763	0.757	0.749	0.741	0.743	2.18
41)		2,4,6-Trichlorophen	0.284	0.317	0.411	0.464	0.458	0.459	0.399	19.85
42)		2,4,5-Trichlorophen	0.316	0.327	0.427	0.473	0.472	0.479	0.416	18.15
43)	S	2-Fluorobiphenyl	1.545	1.560	1.645	1.605	1.589	1.551	1.582	2.43
44)		Biphenyl	1.616	1.662	1.726	1.702	1.681	1.639	1.671	2.44
45)		2-Chloronaphthalene	1.335	1.340	1.407	1.384	1.378	1.350	1.366	2.08
46)		2-Nitroaniline	0.142	0.158	0.279	0.370	0.394	0.408	0.292	40.80
47)		Dimethylphthalate	1.457	1.455	1.486	1.476	1.462	1.452	1.465	0.92
48)		Acenaphthylene	1.979	2.028	2.147	2.078	2.035	2.022	2.048	2.83
49)		2,6-Dinitrotoluene	0.112	0.149	0.256	0.313	0.328	0.344	0.250	39.24
50)		3-Nitroaniline	0.139	0.162	0.210	0.201	0.204	0.199	0.186	15.47
51)		Acenaphthene	1.365	1.358	1.409	1.380	1.367	1.347	1.371	1.57
52)		2,4-Dinitrophenol	0.004	0.011	0.038	0.080	0.106	0.140	0.063	86.88
53)		Dibenzofuran	1.819	1.808	1.885	1.822	1.775	1.758	1.811	2.43
54)		4-Nitrophenol	0.041	0.029	0.078	0.148	0.173	0.184	0.109	62.78
55)		2,4-Dinitrotoluene	0.168	0.144	0.277	0.384	0.418	0.443	0.306	42.22
56)		2,3,4,6-Tetrachloro	0.226	0.264	0.348	0.393	0.414	0.411	0.343	23.38
57)		Fluorene	1.513	1.537	1.585	1.541	1.520	1.518	1.536	1.74

(#) = Out of Range

Response Factor Report GCMS-A

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Aug 27 15:35:59 2018
Response via : Initial Calibration

Calibration Files
2 =AS06908.D 5 =AS06909.D 20 =AS06911.D
50 =AS06912.D 60 =AS06913.D 80 =AS06914.D

		Compound	2	5	20	50	60	80	Avg	%RSD
58)		Diethylphthalate	1.394	1.391	1.468	1.456	1.447	1.436	1.432	2.27
59)		4-Chlorophenyl phen	0.765	0.765	0.800	0.777	0.771	0.776	0.776	1.68
60)		4-Nitroaniline	0.159	0.170	0.161	0.201	0.200	0.196	0.181	10.98
61)	I	Phenanthrene-d10	----------ISTD----------							
62)		4,6-Dinitro-2-methy	0.015	0.020	0.047	0.081	0.097	0.115	0.062	66.38
63)		n-Nitrosodiphenylam	0.673	0.658	0.663	0.633	0.617	0.626	0.645	3.51
64)		1,2-Diphenylhydrazi	0.649	0.652	0.670	0.628	0.626	0.625	0.642	2.83
65)	S	2,4,6-Tribromopheno	0.056	0.066	0.102	0.112	0.115	0.119	0.095	28.65
66)		4-Bromophenyl-pheny	0.244	0.253	0.269	0.260	0.259	0.262	0.258	3.25
67)		Hexachlorobenzene	0.287	0.272	0.286	0.277	0.273	0.277	0.278	2.24
68)		Atrazine	0.172	0.183	0.188	0.172	0.167	0.162	0.174	5.75
69)		Pentachlorophenol	0.055	0.063	0.127	0.158	0.165	0.175	0.124	42.81
70)		Phenanthrene	1.162	1.152	1.183	1.141	1.119	1.113	1.145	2.31
71)		Anthracene	1.123	1.148	1.210	1.161	1.136	1.126	1.151	2.82
72)		Carbazole	1.051	1.047	0.682	0.574	0.631	0.632	0.769	28.48
73)		Di-n-butylphthalate	1.179	1.251	1.412	1.333	1.303	1.277	1.293	6.08
74)		Fluoranthene	1.366	1.375	1.471	1.402	1.387	1.347	1.391	3.11
75)	I	Chrysene-d12	----------ISTD----------							
76)		Benzidine	0.131	0.087	0.042	0.028	0.029	0.028	0.058	73.75
77)		Pyrene	1.255	1.280	1.350	1.300	1.284	1.259	1.288	2.70
78)	S	p-Terphenyl-d14	0.953	0.966	1.051	1.011	1.006	0.985	0.995	3.53
79)		Butylbenzylphthalat	0.418	0.463	0.580	0.593	0.594	0.597	0.541	14.67
80)		Benzo(a)anthracene	1.292	1.283	1.346	1.330	1.309	1.304	1.311	1.81
81)		3,3'-Dichlorobenzid	0.316	0.302	0.235	0.206	0.203	0.207	0.245	20.95
82)		Chrysene	1.169	1.184	1.232	1.205	1.195	1.182	1.194	1.84
83)		bis(2-Ethylhexyl)ph	0.613	0.666	0.845	0.859	0.847	0.844	0.779	14.06
84)	I	Perylene-d12	----------ISTD----------							
85)		Di-n-octylphthalate	0.898	0.991	1.349	1.389	1.408	1.378	1.236	18.47
86)		Benzo(b)fluoranthen	0.972	1.037	1.119	1.135	1.146	1.151	1.093	6.67
87)		Benzo(k)fluoranthen	1.080	1.048	1.129	1.081	1.092	1.056	1.081	2.67
88)		Benzo(a)pyrene	0.999	1.042	1.153	1.149	1.157	1.150	1.108	6.26
89)		Indeno(1,2,3-cd)pyr	1.067	1.094	1.245	1.275	1.291	1.288	1.210	8.41
90)		Dibenzo(a,h)anthrac	0.919	0.958	1.088	1.105	1.120	1.118	1.051	8.47
91)		Benzo(g,h,i)perylen	0.896	0.925	1.017	1.037	1.049	1.061	0.997	6.96

(#) = Out of Range

Compound List Report GCMS-A

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Aug 28 19:14:16 2018
Response via : Initial Calibration
Total Cpnds : 91

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dichlorobenzene-d4	152	6.51	1.000	A	2	A	B
2		Pyridine	79	3.77	0.579	A	1	A	B
3		N-Nitroso-dimethylamine	42	3.70	0.569	A	2	A	B
4	S	2-Fluorophenol	112	5.18	0.796	A	3	A	B
5		Benzaldehyde	77	6.07	0.933	A	3	A	B
6		Aniline	93	6.17	0.948	A	2	A	B
7	S	Phenol-d6	99	6.09	0.936	A	2	A	B
8		Phenol	94	6.11	0.938	A	2	A	B
9		bis(2-Chloroethyl)ether	93	6.21	0.954	A	2	A	B
10		2-Chlorophenol	128	6.30	0.968	A	2	A	B
11		1,3-Dichlorobenzene	146	6.46	0.992	A	3	A	B
12		1,4-Dichlorobenzene	146	6.53	1.003	A	3	A	B
13		Benzyl Alcohol	108	6.62	1.017	A	2	A	B
14		1,2-Dichlorobenzene	146	6.69	1.027	A	3	A	B
15		2-Methylphenol	108	6.71	1.031	A	2	A	B
16		bis(2-Chloroisopropyl)ether	45	6.75	1.036	A	2	A	B
17		Acetophenone	105	6.90	1.059	A	2	A	B
18		3+4-Methylphenol	108	6.86	1.054	A	2	A	B
19		n-Nitroso-di-n-propylamine	70	6.88	1.057	A	2	A	B
20		Hexachloroethane	117	7.03	1.080	A	3	A	B
21	I	Naphthalene-d8	136	7.79	1.000	A	3	A	B
22	S	Nitrobenzene-d5	82	7.06	0.906	A	2	A	B
23		Nitrobenzene	77	6.89	0.885	A	2	A	B
24		Isophorone	82	7.30	0.937	A	2	A	B
25		2-Nitrophenol	139	7.39	0.949	QO	2	A	B
26		2,4-Dimethylphenol	107	7.39	0.949	A	3	A	B
27		bis(2-Chloroethoxy)methane	93	7.48	0.961	A	2	A	B
28		2,4-Dichlorophenol	162	7.63	0.979	A	2	A	B
29		Benzoic Acid	105	7.46	0.958	QO	2	A	B
30		1,2,4-Trichlorobenzene	180	7.72	0.991	A	2	A	B
31		Naphthalene	128	7.81	1.003	A	3	A	B
32		4-Chloroaniline	127	7.83	1.006	A	2	A	B
33		Hexachlorobutadiene	225	7.92	1.017	A	3	A	B
34		Caprolactam	113	8.19	1.051	A	2	A	B
35		4-Chloro-3-methylphenol	107	8.29	1.065	A	2	A	B
36		2-Methylnaphthalene	142	8.50	1.091	A	2	A	B
37		1-Methylnaphthalene	142	8.61	1.105	A	2	A	B
38	I	Acenaphthene-d10	164	9.56	1.000	A	2	A	B
39		Hexachlorocyclopentadiene	237	8.66	0.906	A	2	A	B
40		1,2,4,5-Tetrachlorobenzene	216	8.67	0.907	A	2	A	B
41		2,4,6-Trichlorophenol	196	8.77	0.917	A	3	A	B
42		2,4,5-Trichlorophenol	196	8.81	0.921	A	3	A	B
43	S	2-Fluorobiphenyl	172	8.85	0.925	A	2	A	B
44		Biphenyl	154	8.96	0.937	A	2	A	B
45		2-Chloronaphthalene	162	9.00	0.941	A	2	A	B
46		2-Nitroaniline	138	9.08	0.949	QO	2	A	B
47		Dimethylphthalate	163	9.23	0.965	A	2	A	B
48		Acenaphthylene	152	9.42	0.985	A	2	A	B
49		2,6-Dinitrotoluene	165	9.30	0.973	QO	2	A	B
50		3-Nitroaniline	138	9.49	0.992	A	2	A	B
51		Acenaphthene	153	9.60	1.003	A	2	A	B
52		2,4-Dinitrophenol	184	9.58	1.002	QO	1	A	B
53		Dibenzofuran	168	9.76	1.021	A	2	A	B
54		4-Nitrophenol	65	9.61	1.005	QO	2	A	B
55		2,4-Dinitrotoluene	165	9.71	1.016	QO	2	A	B
56		2,3,4,6-Tetrachlorophenol	232	9.88	1.033	QO	2	A	B
57		Fluorene	166	10.11	1.057	A	2	A	B
58		Diethylphthalate	149	9.93	1.038	A	2	A	B
59		4-Chlorophenyl phenyl ether	204	10.08	1.054	A	2	A	B
60		4-Nitroaniline	138	10.10	1.056	A	2	A	B
61	I	Phenanthrene-d10	188	11.06	1.000	A	2	A	B
62		4,6-Dinitro-2-methylphenol	198	10.13	0.916	QO	2	A	B
63		n-Nitrosodiphenylamine	169	10.19	0.921	A	2	A	B

64		1,2-Diphenylhydrazine	77	10.24	0.926	A	2	A	B
65	S	2,4,6-Tribromophenol	330	10.35	0.936	QO	2	A	B
66		4-Bromophenyl-phenyl ether	248	10.58	0.956	A	2	A	B
67		Hexachlorobenzene	284	10.68	0.965	A	2	A	B
68		Atrazine	200	10.69	0.967	A	2	A	B
69		Pentachlorophenol	266	10.86	0.981	QO	2	A	B
70		Phenanthrene	178	11.09	1.002	A	2	A	B
71		Anthracene	178	11.14	1.007	A	2	A	B
72		Carbazole	167	11.28	1.019	QO	2	A	B
73		Di-n-butylphthalate	149	11.55	1.044	A	2	A	B
74		Fluoranthene	202	12.31	1.112	A	2	A	B
75	I	Chrysene-d12	240	13.99	1.000	A	2	A	B
76		Benzidine	184	12.40	0.887	Q	2	A	B
77		Pyrene	202	12.57	0.898	A	2	A	B
78	S	p-Terphenyl-d14	244	12.67	0.906	A	2	A	B
79		Butylbenzylphthalate	149	13.19	0.943	A	2	A	B
80		Benzo(a)anthracene	228	13.97	0.999	A	2	A	B
81		3,3'-Dichlorobenzidine	252	13.89	0.993	QO	2	A	B
82		Chrysene	228	14.02	1.002	A	2	A	B
83		bis(2-Ethylhexyl)phthalate	149	13.85	0.990	A	2	A	B
84	I	Perylene-d12	264	16.25	1.000	A	2	A	B
85		Di-n-octylphthalate	149	14.71	0.905	A	1	A	B
86		Benzo(b)fluoranthene	252	15.54	0.956	A	3	A	B
87		Benzo(k)fluoranthene	252	15.59	0.959	A	3	A	B
88		Benzo(a)pyrene	252	16.15	0.994	A	3	A	B
89		Indeno(1,2,3-cd)pyrene	276	18.76	1.154	A	2	A	B
90		Dibenzo(a,h)anthracene	278	18.79	1.156	A	2	A	B
91		Benzo(g,h,i)perylene	276	19.54	1.202	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

0824ABN.M Tue Aug 28 19:16:51 2018 SS

CALIBRATION VERIFICATION SUMMARY

SW 846 8270D

CCV ID: S8J1212-CCV1 **Analyzed:** 10/11/18 14:28

Analyte	Response Factor	Expected Result	Result		% Drift	Limit(s)
1-Methylnaphthalene	0.6436179	75.20	70.99		6	30
2,3,4,6-Tetrachlorophenol	0.3778771	50.00	48.13		4	30
2,4,5-Trichlorophenol	0.4462864	50.00	53.70		7	30
2,4,6-Trichlorophenol	0.4375443	50.00	54.87		10	20 (CCC)
2,4-Dichlorophenol	0.296475	50.00	53.56		7	20 (CCC)
2,4-Dimethylphenol	0.2792829	50.00	50.26		1	30
2,4-Dinitrophenol	0.1581587	50.00	67.53	*	35	0.05 (SPCC)
2,4-Dinitrotoluene	0.4601779	50.00	57.70		15	30
2,6-Dinitrotoluene	0.3359065	50.00	53.45		7	30
2-Chloronaphthalene	1.282212	50.00	46.94		6	30
2-Chlorophenol	1.258503	50.00	50.06		0	30
2-Methylnaphthalene	0.6798893	75.20	71.47		5	30
2-Methylphenol	1.023695	50.00	48.39		3	30
2-Nitroaniline	0.3991819	50.00	53.68		7	30
2-Nitrophenol	0.1930638	50.00	61.61		23	20 (CCC)
3,3'-Dichlorobenzidine	0.2253867	50.00	53.90		8	30
3+4-Methylphenol	1.118261	50.00	51.01		2	30
3-Nitroaniline	0.1810068	50.00	48.75		2	30
4,6-Dinitro-2-methylphenol	0.1480051	50.00	70.36	*	41	30
4-Bromophenyl-phenyl ether	0.2474413	50.00	47.93		4	30
4-Chloro-3-methylphenol	0.2581365	50.00	55.44		11	20 (CCC)
4-Chloroaniline	0.313133	50.00	46.43		7	30
4-Chlorophenyl phenyl ether	0.7440782	50.00	47.97		4	30
4-Nitroaniline	0.1499715	50.00	41.38		17	30
4-Nitrophenol	0.1072094	50.00	41.78		16	0.05 (SPCC)
Acenaphthene	1.267501	50.00	46.23		8	20 (CCC)
Acenaphthylene	1.885835	50.00	46.04		8	30
Acetophenone	1.633287	50.00	51.34		3	30
Anthracene	1.058996	50.00	46.02		8	30
Atrazine	0.1515081	50.00	43.54		13	30
Benzaldehyde	0.7238946	50.00	41.50		17	30
Benzo(a)anthracene	1.207992	50.00	46.08		8	30
Benzo(a)pyrene	1.028786	50.00	46.41		7	20 (CCC)
Benzo(b)fluoranthene	1.028701	50.00	47.04		6	30
Benzo(g,h,i)perylene	0.9923932	50.00	49.75		1	30
Benzo(k)fluoranthene	0.9732221	50.00	45.02		10	30
Biphenyl	1.521553	50.00	45.53		9	30
bis(2-chloroethoxy)methane	0.332707	50.00	48.42		3	30
bis(2-chloroethyl)ether	1.264599	50.00	52.17		4	30
bis(2-chloroisopropyl)ether	2.184053	50.00	43.92		12	30
bis(2-ethylhexyl)phthalate	0.7700481	50.00	49.43		1	30
Butylbenzylphthalate	0.5399785	50.00	49.93		0	30
Caprolactam	9.298892E-02	50.00	53.96		8	30
Carbazole	0.6699405	50.00	54.06		8	30
Chrysene	1.104658	50.00	46.25		8	30
Dibenzo(a,h)anthracene	1.05841	50.00	50.34		1	30
Dibenzofuran	1.680528	50.00	46.39		7	30

F-VII

CALIBRATION VERIFICATION SUMMARY

SW 846 8270D

CCV ID: S8J1212-CCV1 **Analyzed:** 10/11/18 14:28

Analyte	Response Factor	Expected Result	Result	% Drift	Limit(s)
Diethylphthalate	1.358499	50.00	47.44	5	30
Dimethylphthalate	1.363624	50.00	46.55	7	30
Di-n-butylphthalate	1.229137	50.00	47.55	5	30
Di-n-octylphthalate	1.350972	50.00	50.68	1	20 (CCC)
Fluoranthene	1.283546	50.00	46.12	8	20 (CCC)
Fluorene	1.402544	50.00	45.66	9	30
Hexachlorobenzene	0.2633497	50.00	47.29	5	30
Hexachlorobutadiene	0.2328334	50.00	49.50	1	20 (CCC)
Hexachlorocyclopentadiene	0.3853038	50.00	47.67	5	0.05 (SPCC)
Hexachloroethane	0.5914757	50.00	52.34	5	30
Indeno(1,2,3-cd)pyrene	1.198203	50.00	49.52	1	30
Isophorone	0.470318	50.00	48.33	3	30
Naphthalene	0.9762417	50.00	44.51	11	30
Nitrobenzene	0.3191734	50.00	48.24	4	30
n-Nitroso-dimethylamine	0.5318674	50.00	45.03	10	30
n-Nitroso-di-n-propylamine	0.672835	50.00	49.50	1	0.05 (SPCC)
n-Nitrosodiphenylamine	0.5759163	50.00	44.65	11	20 (CCC)
Pentachlorophenol	0.1223561	50.00	41.00	18	20 (CCC)
Phenanthrene	1.030003	50.00	44.98	10	30
Phenol	1.302726	50.00	47.18	6	20 (CCC)
Pyrene	1.194812	50.00	46.37	7	30

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07395.D Vial: 3
Acq On : 11 Oct 2018 14:28 Operator: GCH
Sample : SEQ-CCV Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 12 10:55 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Fri Oct 12 10:53:36 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	171909	40.00	ug/kg	0.00
21) Naphthalene-d8	7.55	136	668028	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.32	164	361834	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	711170	40.00	ug/kg	0.00
75) Chrysene-d12	13.68	240	779517	40.00	ug/kg	0.00
84) Perylene-d12	15.76	264	840849	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.94	112	235747	49.36	ug/kg	-0.05
Spiked Amount 100.000	Range 15 - 62		Recovery = 49.36%			
7) Phenol-d6	5.87	99	277152	49.03	ug/kg	0.00
Spiked Amount 100.000	Range 15 - 45		Recovery = 49.03%#			
22) Nitrobenzene-d5	6.82	82	263141	58.34	ug/kg	-0.02
Spiked Amount 50.000	Range 32 - 101		Recovery = 116.68%#			
43) 2-Fluorobiphenyl	8.61	172	651989	45.55	ug/kg	-0.01
Spiked Amount 50.000	Range 36 - 103		Recovery = 91.10%			
65) 2,4,6-Tribromophenol	10.11	330	99993	50.45	ug/kg	0.00
Spiked Amount 100.000	Range 28 - 167		Recovery = 50.45%			
78) p-Terphenyl-d14	12.40	244	918700	47.36	ug/kg	0.01
Spiked Amount 50.000	Range 44 - 117		Recovery = 94.72%			
Target Compounds						Qvalue
2) Pyridine	3.47	79	257481m	47.08	ng/uL	
3) N-Nitroso-dimethylamine	3.41	42	114291m	45.03	ng/uL	
5) Benzaldehyde	5.83	77	155555m	41.50	ug/kg	
6) Aniline	5.94	93	300167	46.08	ug/kg	96
8) Phenol	5.88	94	279938	47.18	ug/kg	89
9) bis(2-Chloroethyl)ether	5.98	93	271745	52.17	ug/kg	90
10) 2-Chlorophenol	6.06	128	270435	50.06	ug/kg	99
11) 1,3-Dichlorobenzene	6.22	146	330678	46.84	ug/kg	99
12) 1,4-Dichlorobenzene	6.28	146	320640	46.49	ug/kg	98
13) Benzyl Alcohol	6.39	108	140178	42.36	ug/kg	95
14) 1,2-Dichlorobenzene	6.44	146	318668	47.68	ug/kg	99
15) 2-Methylphenol	6.49	108	219978	48.39	ug/kg	97
16) bis(2-Chloroisopropyl)ethe	6.51	45	469323	43.92	ug/kg	96
17) Acetophenone	6.66	105	350971	51.34	ug/kg	89
18) 3+4-Methylphenol	6.64	108	240299	51.01	ug/kg	99
19) n-Nitroso-di-n-propylamine	6.65	70	144583	49.50	ug/kg	90
20) Hexachloroethane	6.79	117	127100	52.34	ug/kg	98
23) Nitrobenzene	6.84	77	266521	48.24	ug/kg	99
24) Isophorone	7.07	82	392732	48.33	ug/kg	99
25) 2-Nitrophenol	7.16	139	161215	61.61	ug/kg	98
26) 2,4-Dimethylphenol	7.17	107	233211	50.26	ug/kg	96
27) bis(2-Chloroethoxy)methane	7.25	93	277822	48.42	ug/kg	97
28) 2,4-Dichlorophenol	7.40	162	247567	53.56	ug/kg	98
29) Benzoic Acid	7.25	105	41557	50.02	ug/kg	87
30) 1,2,4-Trichlorobenzene	7.49	180	302410	48.05	ug/kg	99
31) Naphthalene	7.57	128	815196	44.51	ug/kg	99
32) 4-Chloroaniline	7.60	127	261477m	46.43	ug/kg	
33) Hexachlorobutadiene	7.68	225	194424	49.50	ug/kg	99
34) Caprolactam	7.96	113	77649	53.96	ug/kg	99
35) 4-Chloro-3-methylphenol	8.07	107	215553	55.44	ug/kg	98
36) 2-Methylnaphthalene	8.26	142	853868	71.47	ug/kg	99
37) 1-Methylnaphthalene	8.36	142	808315	70.99	ng/uL	99
39) Hexachlorocyclopentadiene	8.42	237	174270	47.67	ug/kg	100
40) 1,2,4,5-Tetrachlorobenzene	8.43	216	318529	47.37	ug/kg	99
41) 2,4,6-Trichlorophenol	8.53	196	197898	54.87	ug/kg	100
42) 2,4,5-Trichlorophenol	8.58	196	201852	53.70	ug/kg	95

(#) = qualifier out of range (m) = manual integration
AS07395.D 0824ABN.M Fri Oct 12 15:11:49 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07395.D Vial: 3
Acq On : 11 Oct 2018 14:28 Operator: GCH
Sample : SEQ-CCV Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 12 10:55 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Fri Oct 12 10:53:36 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

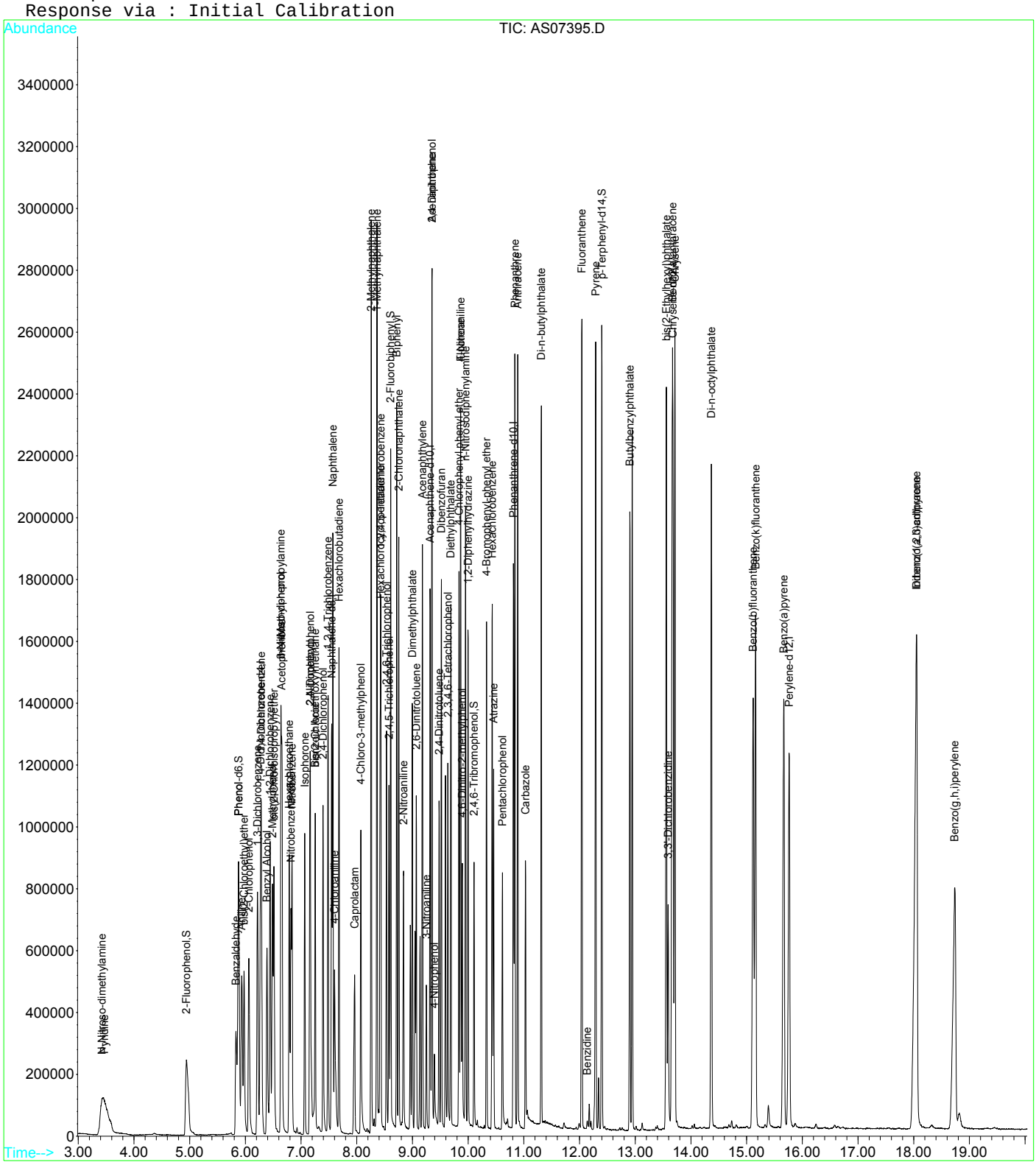
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) Biphenyl	8.72	154	688187	45.53	ug/kg	99
45) 2-Chloronaphthalene	8.76	162	579935	46.94	ug/kg	99
46) 2-Nitroaniline	8.84	138	180547	53.68	ug/kg	99
47) Dimethylphthalate	9.00	163	616757	46.55	ug/kg	99
48) Acenaphthylene	9.18	152	852949	46.04	ug/kg	100
49) 2,6-Dinitrotoluene	9.07	165	151928	53.45	ug/kg	97
50) 3-Nitroaniline	9.25	138	81868	48.75	ug/kg	98
51) Acenaphthene	9.35	153	573281	46.23	ug/kg	99
52) 2,4-Dinitrophenol	9.35	184	71534	67.53	ug/kg	22
53) Dibenzofuran	9.52	168	760090	46.39	ug/kg	99
54) 4-Nitrophenol	9.39	65	48490m	41.78	ug/kg	
55) 2,4-Dinitrotoluene	9.48	165	208135	57.70	ug/kg	95
56) 2,3,4,6-Tetrachlorophenol	9.63	232	170911m	48.13	ug/kg	
57) Fluorene	9.87	166	634360	45.66	ug/kg	99
58) Diethylphthalate	9.69	149	614439	47.44	ug/kg	99
59) 4-Chlorophenyl phenyl ethe	9.84	204	336541	47.97	ug/kg	98
60) 4-Nitroaniline	9.86	138	67831	41.38	ug/kg	89
62) 4,6-Dinitro-2-methylphenol	9.89	198	131571	70.36	ug/kg	94
63) n-Nitrosodiphenylamine	9.95	169	511968	44.65	ug/kg	99
64) 1,2-Diphenylhydrazine	10.00	77	525766	46.09	ug/kg	96
66) 4-Bromophenyl-phenyl ether	10.33	248	219966	47.93	ug/kg	97
67) Hexachlorobenzene	10.43	284	234108	47.29	ug/kg	100
68) Atrazine	10.46	200	134685	43.54	ug/kg	97
69) Pentachlorophenol	10.61	266	108770	41.00	ug/kg	98
70) Phenanthrene	10.84	178	915634	44.98	ug/kg	99
71) Anthracene	10.89	178	941408	46.02	ug/kg	99
72) Carbazole	11.03	167	595552m	54.06	ug/kg	
73) Di-n-butylphthalate	11.31	149	1092657	47.55	ug/kg	99
74) Fluoranthene	12.04	202	1141024	46.12	ug/kg	99
76) Benzidine	12.14	184	17383m	15.49	ug/kg	
77) Pyrene	12.29	202	1164220	46.37	ug/kg	99
79) Butylbenzylphthalate	12.90	149	526153	49.93	ug/kg	99
80) Benzo(a)anthracene	13.66	228	1177063	46.08	ug/kg	99
81) 3,3'-Dichlorobenzidine	13.59	252	219616	53.90	ug/kg	99
82) Chrysene	13.71	228	1076375	46.25	ug/kg	99
83) bis(2-Ethylhexyl)phthalate	13.56	149	750332	49.43	ug/kg	98
85) Di-n-octylphthalate	14.37	149	1316382	50.68	ug/kg	98
86) Benzo(b)fluoranthene	15.12	252	1081228	47.04	ug/kg	98
87) Benzo(k)fluoranthene	15.16	252	1022916	45.02	ug/kg	97
88) Benzo(a)pyrene	15.67	252	1081317	46.41	ug/kg	99
89) Indeno(1,2,3-cd)pyrene	18.04	276	1259385	49.52	ug/kg#	76
90) Dibenzo(a,h)anthracene	18.05	278	1112454	50.34	ug/kg	99
91) Benzo(g,h,i)perylene	18.74	276	1043066	49.75	ug/kg	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07395.D Vial: 3
Acq On : 11 Oct 2018 14:28 Operator: GCH
Sample : SEQ-CCV Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 12 10:55 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



CALIBRATION VERIFICATION SUMMARY

SW 846 8270D

CCV ID: S8J1213-CCV1 **Analyzed:** 10/11/18 12:41

Analyte	Response Factor	Expected Result	Result	% Drift	Limit(s)
1-Methylnaphthalene	0.6170175	75.20	66.61	11	30
2,3,4,6-Tetrachlorophenol	0.2210259	50.00	44.46	11	30
2,4,5-Trichlorophenol	0.3713432	50.00	48.91	2	30
2,4,6-Trichlorophenol	0.3678283	50.00	47.71	5	20 (CCC)
2,4-Dichlorophenol	0.2786784	50.00	47.27	5	20 (CCC)
2,4-Dimethylphenol	0.3406714	50.00	51.82	4	30
2,4-Dinitrophenol	0.1517089	50.00	44.58	11	0.05 (SPCC)
2,4-Dinitrotoluene	0.4696406	50.00	51.84	4	30
2,6-Dinitrotoluene	0.3549094	50.00	49.82	0	30
2-Chloronaphthalene	1.262154	50.00	46.88	6	30
2-Chlorophenol	1.414604	50.00	46.59	7	30
2-Methylnaphthalene	0.6290265	75.20	66.40	12	30
2-Methylphenol	1.25947	50.00	48.76	2	30
2-Nitroaniline	0.4579944	50.00	50.29	1	30
2-Nitrophenol	0.193405	50.00	49.02	2	20 (CCC)
3,3'-Dichlorobenzidine	0.3423161	50.00	39.98	20	30
3+4-Methylphenol	1.297142	50.00	46.34	7	30
3-Nitroaniline	0.3855607	50.00	48.12	4	30
4,6-Dinitro-2-methylphenol	0.1204901	50.00	42.28	15	30
4-Bromophenyl-phenyl ether	0.1749858	50.00	45.63	9	30
4-Chloro-3-methylphenol	0.3176657	50.00	51.18	2	20 (CCC)
4-Chloroaniline	0.430819	50.00	48.58	3	30
4-Chlorophenyl phenyl ether	0.5674663	50.00	42.80	14	30
4-Nitroaniline	0.3513361	50.00	46.45	7	30
4-Nitrophenol	0.2322004	50.00	50.71	1	0.05 (SPCC)
Acenaphthene	1.279867	50.00	47.34	5	20 (CCC)
Acenaphthylene	1.944157	50.00	45.43	9	30
Acetophenone	1.78983	50.00	47.55	5	30
Anthracene	1.043079	50.00	44.93	10	30
Atrazine	0.1509149	50.00	42.26	15	30
Benzaldehyde	0.7565848	50.00	40.70	19	30
Benzo(a)anthracene	1.178373	50.00	45.22	10	30
Benzo(a)pyrene	1.034226	50.00	45.92	8	20 (CCC)
Benzo(b)fluoranthene	0.9878955	50.00	44.73	11	30
Benzo(g,h,i)perylene	0.9405901	50.00	45.13	10	30
Benzo(k)fluoranthene	1.064207	50.00	47.39	5	30
Biphenyl	1.651505	50.00	48.93	2	30
bis(2-chloroethoxy)methane	0.4024938	50.00	48.84	2	30
bis(2-chloroethyl)ether	1.332693	50.00	46.20	8	30
bis(2-chloroisopropyl)ether	2.183828	50.00	44.80	10	30
bis(2-ethylhexyl)phthalate	1.12361	50.00	52.50	5	30
Butylbenzylphthalate	0.8560527	50.00	52.97	6	30
Caprolactam	0.1196928	50.00	47.35	5	30
Carbazole	1.049554	50.00	46.66	7	30
Chrysene	1.09854	50.00	44.12	12	30
Dibenzo(a,h)anthracene	0.9746596	50.00	45.57	9	30
Dibenzofuran	1.642075	50.00	45.58	9	30

F-VII

CALIBRATION VERIFICATION SUMMARY

SW 846 8270D

CCV ID: S8J1213-CCV1 **Analyzed:** 10/11/18 12:41

Analyte	Response Factor	Expected Result	Result	% Drift	Limit(s)
Diethylphthalate	1.402559	50.00	49.27	1	30
Dimethylphthalate	1.366886	50.00	48.14	4	30
Di-n-butylphthalate	1.288366	50.00	47.03	6	30
Di-n-octylphthalate	1.912487	50.00	54.01	8	20 (CCC)
Fluoranthene	1.067539	50.00	44.25	12	20 (CCC)
Fluorene	1.316505	50.00	43.87	12	30
Hexachlorobenzene	0.1800945	50.00	40.75	19	30
Hexachlorobutadiene	0.1321879	50.00	43.52	13	20 (CCC)
Hexachlorocyclopentadiene	0.2175306	50.00	44.30	11	0.05 (SPCC)
Hexachloroethane	0.6155156	50.00	46.51	7	30
Indeno(1,2,3-cd)pyrene	1.120793	50.00	45.27	9	30
Isophorone	0.5648747	50.00	48.78	2	30
Naphthalene	1.036528	50.00	45.92	8	30
Nitrobenzene	0.3979684	50.00	51.34	3	30
n-Nitroso-dimethylamine	0.7850718	50.00	54.45	9	30
n-Nitroso-di-n-propylamine	0.9614274	50.00	48.34	3	0.05 (SPCC)
n-Nitrosodiphenylamine	0.6527311	50.00	47.23	6	20 (CCC)
Pentachlorophenol	6.390914E-02	50.00	40.65	19	20 (CCC)
Phenanthrene	1.051483	50.00	45.85	8	30
Phenol	1.729527	50.00	49.46	1	20 (CCC)
Pyrene	1.483093	50.00	48.38	3	30

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18768.D Vial: 3
Acq On : 11 Oct 2018 12:41 Operator: GCH
Sample : SEQ-CCV@X50 Inst : GCMS-D
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:27 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Fri Oct 12 10:26:51 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.54	152	199193	40.00	ug/kg	0.00
22) Naphthalene-d8	6.82	136	754665	40.00	ug/kg	0.00
39) Acenaphthene-d10	8.58	164	369629	40.00	ug/kg	0.00
62) Phenanthrene-d10	10.05	188	661777	40.00	ug/kg	0.00
76) Chrysene-d12	12.76	240	480148	40.00	ug/kg	0.00
85) Perylene-d12	14.45	264	499614	40.00	ug/kg	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	331696	48.58	ug/kg	-0.03
Spiked Amount 100.000	Range 15 - 62		Recovery = 48.58%			
8) Phenol-d6	5.17	99	428944	49.47	ug/kg	-0.01
Spiked Amount 100.000	Range 15 - 45		Recovery = 49.47%#			
23) Nitrobenzene-d5	6.10	82	365749	52.08	ug/kg	-0.06
Spiked Amount 50.000	Range 32 - 101		Recovery = 104.16%#			
44) 2-Fluorobiphenyl	7.89	172	628427	46.05	ug/kg	-0.03
Spiked Amount 50.000	Range 36 - 103		Recovery = 92.10%			
66) 2,4,6-Tribromophenol	9.36	330	61943	44.29	ug/kg	-0.04
Spiked Amount 100.000	Range 28 - 167		Recovery = 44.29%			
79) p-Terphenyl-d14	11.62	244	555171	50.59	ug/kg	0.05
Spiked Amount 50.000	Range 44 - 117		Recovery = 101.18%			
Target Compounds						Qvalue
3) N-nitrosodimethylamine	2.32	42	195476	54.45	ng/uL	95
4) Pyridine	2.38	79	427564	48.40	ng/uL	100
6) Benzaldehyde	5.09	77	188383	40.70	ug/kg	99
7) Aniline	5.20	93	490041	47.26	ug/kg	97
9) Phenol	5.18	94	430637	49.46	ug/kg	95
10) bis(2-Chloroethyl)ether	5.27	93	331829	46.20	ug/kg	96
11) 2-Chlorophenol	5.33	128	352224	46.59	ug/kg	97
12) 1,3-Dichlorobenzene	5.49	146	382027	45.99	ug/kg	97
13) 1,4-Dichlorobenzene	5.56	146	356141	44.70	ug/kg	98
14) Benzyl Alcohol	5.68	108	239976	53.39	ug/kg	97
15) 1,2-Dichlorobenzene	5.72	146	357907	44.71	ug/kg	99
16) 2-Methylphenol	5.79	108	313597	48.76	ug/kg	97
17) bis(2-Chloroisopropyl)ethe	5.81	45	543754	44.80	ug/kg	80
18) Acetophenone	5.94	105	445652	47.55	ug/kg	93
19) 3+4-Methylphenol	5.94	108	322977	46.34	ug/kg	94
20) n-Nitroso-di-n-propylamine	5.94	70	239387	48.34	ug/kg	93
21) Hexachloroethane	6.06	117	153258	46.51	ug/kg	98
24) Nitrobenzene	6.12	77	375416	51.34	ug/kg	95
25) Isophorone	6.35	82	532864	48.78	ug/kg	97
26) 2-Nitrophenol	6.44	139	182445	49.02	ug/kg	95
27) 2,4-Dimethylphenol	6.48	107	321366	51.82	ug/kg	96
28) bis(2-Chloroethoxy)methane	6.56	93	379685	48.84	ug/kg	98
29) 2,4-Dichlorophenol	6.68	162	262886	47.27	ug/kg	100
30) Benzoic Acid	6.47	105	18281m	26.66	ug/kg	
31) 1,2,4-Trichlorobenzene	6.77	180	281093	44.02	ug/kg	95
32) Naphthalene	6.85	128	977789	45.92	ug/kg	99
33) 4-Chloroaniline	6.89	127	406405	48.58	ug/kg	98
34) Hexachlorobutadiene	6.97	225	124697	43.52	ug/kg	96
35) Caprolactam	7.22	113	112910	47.35	ug/kg	90
36) 4-Chloro-3-methylphenol	7.37	107	299664	51.18	ug/kg	92
37) 2-Methylnaphthalene	7.54	142	892444	66.40	ug/kg	98
38) 1-Methylnaphthalene	7.63	142	875406	66.61	ng/uL	99
40) Hexachlorocyclopentadiene	7.70	237	100507	44.30	ug/kg	98
41) 1,2,4,5-Tetrachlorobenzene	7.71	216	226743	44.22	ug/kg	100
42) 2,4,6-Trichlorophenol	7.82	196	169950m	47.71	ug/kg	
43) 2,4,5-Trichlorophenol	7.85	196	171574	48.91	ug/kg	94

(#) = qualifier out of range (m) = manual integration
DS18768.D 0802ABN.M Tue Oct 16 12:43:47 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18768.D Vial: 3
Acq On : 11 Oct 2018 12:41 Operator: GCH
Sample : SEQ-CCV@X50 Inst : GCMS-D
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:27 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Fri Oct 12 10:26:51 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

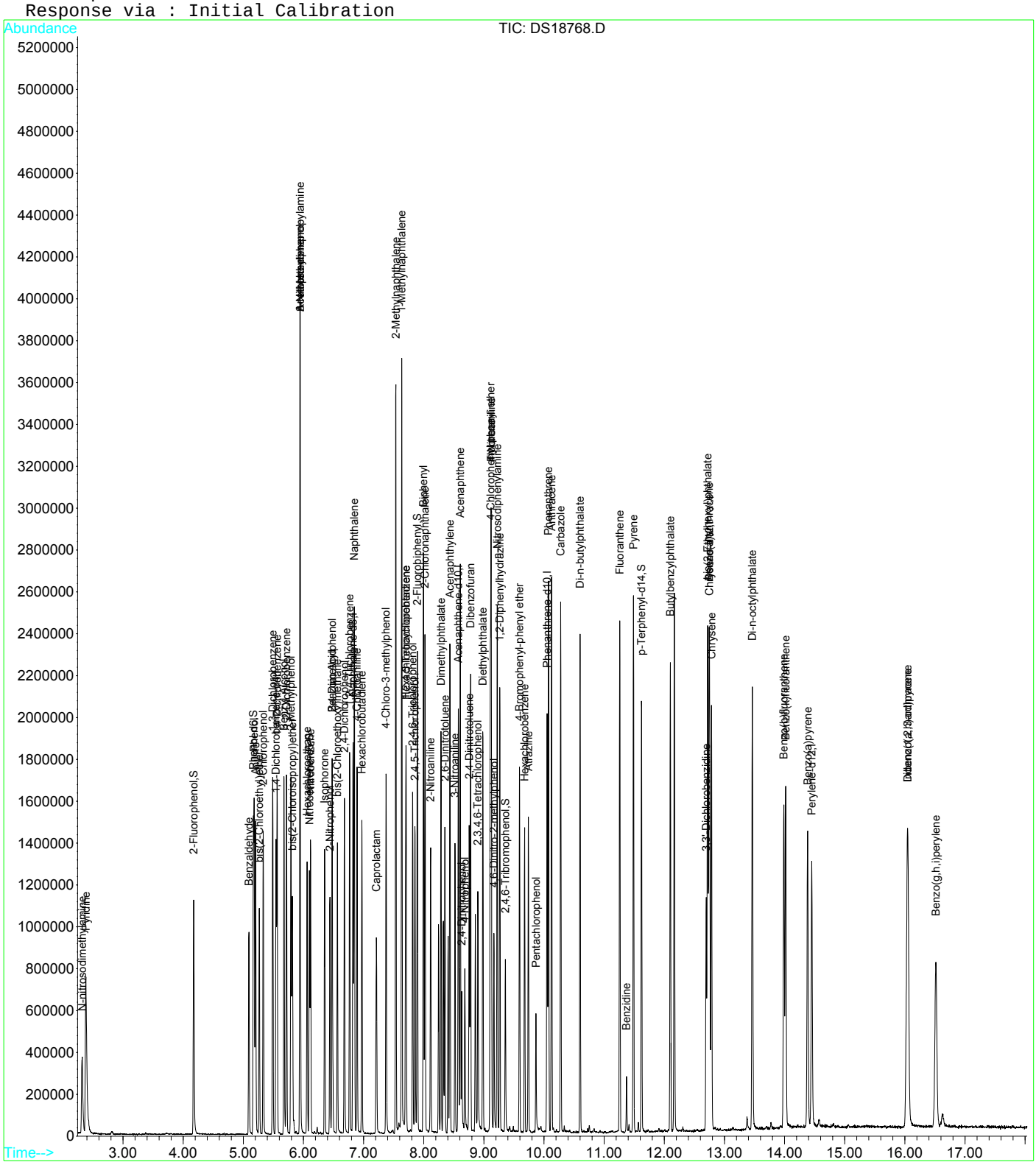
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	Biphenyl	7.99	154	763055	48.93	ug/kg	99
46)	2-Chloronaphthalene	8.02	162	583161	46.88	ug/kg	97
47)	2-Nitroaniline	8.12	138	211610	50.29	ug/kg	93
48)	Dimethylphthalate	8.29	163	631551	48.14	ug/kg	95
49)	Acenaphthylene	8.44	152	898271	45.42	ug/kg	99
50)	2,6-Dinitrotoluene	8.35	165	163981	49.82	ug/kg	95
51)	3-Nitroaniline	8.52	138	178143	48.12	ug/kg	90
52)	Acenaphthene	8.61	153	591345	47.34	ug/kg	96
53)	2,4-Dinitrophenol	8.63	184	70095	44.58	ug/kg	63
54)	Dibenzofuran	8.78	168	758698	45.58	ug/kg	98
55)	4-Nitrophenol	8.68	65	107285	50.71	ug/kg	97
56)	2,4-Dinitrotoluene	8.76	165	216991	51.84	ug/kg	90
57)	2,3,4,6-Tetrachlorophenol	8.90	232	102122	44.45	ug/kg	92
58)	Fluorene	9.12	166	608273	43.87	ug/kg	99
59)	Diethylphthalate	8.98	149	648033	49.27	ug/kg	98
60)	4-Chlorophenyl phenyl ethe	9.11	204	262190	42.80	ug/kg	92
61)	4-Nitroaniline	9.13	138	162330	46.45	ug/kg	88
63)	4,6-Dinitro-2-methylphenol	9.17	198	99672	42.28	ug/kg	89
64)	n-Nitrosodiphenylamine	9.22	169	539953	47.23	ug/kg	99
65)	1,2-Diphenylhydrazine	9.26	77	739137	51.02	ug/kg	94
67)	4-Bromophenyl-phenyl ether	9.59	248	144752	45.63	ug/kg	91
68)	Hexachlorobenzene	9.68	284	148978	40.75	ug/kg	99
69)	Atrazine	9.74	200	124840	42.26	ug/kg	96
70)	Pentachlorophenol	9.87	266	52867m	40.65	ug/kg	
71)	Phenanthrene	10.07	178	869809	45.85	ug/kg	100
72)	Anthracene	10.13	178	862857	44.93	ug/kg	99
73)	Carbazole	10.28	167	868213	46.66	ug/kg	97
74)	Di-n-butylphthalate	10.60	149	1065764	47.03	ug/kg	98
75)	Fluoranthene	11.26	202	883091	44.25	ug/kg	98
77)	Benzidine	11.37	184	88261	9.21	ug/kg	98
78)	Pyrene	11.49	202	890130	48.38	ug/kg	98
80)	Butylbenzylphthalate	12.10	149	513790	52.97	ug/kg	97
81)	Benzo(a)anthracene	12.74	228	707242	45.22	ug/kg	100
82)	3,3'-Dichlorobenzidine	12.70	252	205453	39.98	ug/kg	99
83)	Chrysene	12.79	228	659327	44.12	ug/kg	98
84)	bis(2-Ethylhexyl)phthalate	12.72	149	674374	52.50	ug/kg	98
86)	Di-n-octylphthalate	13.46	149	1147846	54.01	ug/kg	97
87)	Benzo(b)fluoranthene	13.99	252	616958	44.73	ug/kg	98
88)	Benzo(k)fluoranthene	14.02	252	664616m	47.39	ug/kg	
89)	Benzo(a)pyrene	14.38	252	645892	45.92	ug/kg	99
90)	Indeno(1,2,3-cd)pyrene	16.04	276	699955	45.27	ug/kg	98
91)	Dibenzo(a,h)anthracene	16.05	278	608692	45.57	ug/kg	97
92)	Benzo(g,h,i)perylene	16.51	276	587415	45.13	ug/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18768.D Vial: 3
Acq On : 11 Oct 2018 12:41 Operator: GCH
Sample : SEQ-CCV@X50 Inst : GCMS-D
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:27 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



INTERNAL STANDARD REPORT

Analysis Class: SEMIVOLATILES **Analysis Batch:** S8J1212

		DCB-D4		NAP-D8		ACE-D10		PHE-D10		CHR-D12		PER-D12	
Lab Number	File ID	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt
8100452-10	AS07396.D	137601	6.27	525512	7.54	279789	9.31	528787	10.81	578999	13.67	603659	15.75
8100452-11	AS07397.D	144157	6.27	544435	7.54	292101	9.31	558645	10.81	606407	13.67	627427	15.75
8100452-12	AS07398.D	160040	6.26	621406	7.54	331206	9.31	635462	10.81	691875	13.67	723702	15.76
8100452-13	AS07399.D	144929	6.27	551744	7.54	296526	9.31	563939	10.81	621689	13.67	638170	15.75
8100452-14	AS07400.D	139395	6.27	542847	7.54	286684	9.31	546847	10.81	598306	13.67	626870	15.75
8100452-09	AS07401.D	148181	6.27	560064	7.54	296470	9.31	568102	10.81	628942	13.67	651720	15.76

Reference Std ID
S8J1212-CCV1

	Internal Standard	Ref Area	Area Limit	Ref RT	RT Limit
DCB-D4	1,4-Dichlorobenzene-d4	171909	85,954.50 - 343,818.00	6.27	0.50
NAP-D8	Naphthalene-d8	668028	334,014.00 - 1,336,056.00	7.55	0.50
ACE-D10	Acenaphthene-d10	361834	180,917.00 - 723,668.00	9.32	0.50
PHE-D10	Phenanthrene-d10	711170	355,585.00 - 1,422,340.00	10.81	0.50
CHR-D12	Chrysene-d12	779517	389,758.50 - 1,559,034.00	13.68	0.50
PER-D12	Perylene-d12	840849	420,424.50 - 1,681,698.00	15.76	0.50

* - Outside of QC Limits

F-VIII

INTERNAL STANDARD REPORT

Analysis Class: SEMIVOLATILES **Analysis Batch:** S8J1213

		DCB-D4		NAP-D8		ACE-D10		PHE-D10		CHR-D12		PER-D12	
Lab Number	File ID	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt
B8J1101-BLK1	DS18769.D	169814	5.55	643038	6.83	307744	8.58	545070	10.05	412629	12.75	408173	14.45
8100452-01	DS18771.D	162070	5.55	608163	6.83	299587	8.57	519499	10.05	391750	12.76	379160	14.45
8100452-02	DS18772.D	182818	5.55	695780	6.82	358130	8.57	600167	10.05	442655	12.75	426788	14.45
8100452-03	DS18773.D	167877	5.55	627978	6.82	308607	8.57	531137	10.05	397045	12.75	381767	14.45
8100452-04	DS18774.D	162627	5.55	625040	6.82	296500	8.57	521121	10.05	383151	12.75	361524	14.45
8100452-05	DS18775.D	159249	5.54	609200	6.83	307467	8.57	538317	10.05	389183	12.75	380947	14.45
8100452-06	DS18776.D	159499	5.55	607328	6.83	297278	8.57	519141	10.05	384901	12.75	374104	14.45
8100452-07	DS18777.D	174325	5.55	649764	6.83	323492	8.57	554925	10.05	419384	12.75	388875	14.45
8100452-08	DS18778.D	160052	5.54	608878	6.83	294400	8.57	519881	10.05	381925	12.76	375896	14.45

Reference Std ID
S8J1213-CCV1

	Internal Standard	Ref Area	Area Limit	Ref RT	RT Limit
DCB-D4	1,4-Dichlorobenzene-d4	199193	99,596.50 - 398,386.00	5.54	0.50
NAP-D8	Naphthalene-d8	754665	377,332.50 - 1,509,330.00	6.82	0.50
ACE-D10	Acenaphthene-d10	369629	184,814.50 - 739,258.00	8.58	0.50
PHE-D10	Phenanthrene-d10	661777	330,888.50 - 1,323,554.00	10.05	0.50
CHR-D12	Chrysene-d12	480148	240,074.00 - 960,296.00	12.76	0.50
PER-D12	Perylene-d12	499614	249,807.00 - 999,228.00	14.45	0.50

* - Outside of QC Limits

F-VIII

VOLATILES

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1111-BLK1**		

Init/Final Vol:	5 g / 5 mL	Prep Date:	10/10/2018 15:02	File ID:	3V33994.D
		Prep Batch:	B8J1111	Analyzed:	10/10/2018 15:02
		Matrix:	Soil	Sequence:	S8J1704
		Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000292	0.00200	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000276	0.00200	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000856	0.00200	U
79-00-5	1,1,2-Trichloroethane	ND	0.000337	0.00200	U
75-34-3	1,1-Dichloroethane	ND	0.000292	0.00200	U
75-35-4	1,1-Dichloroethene	ND	0.000370	0.00200	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000432	0.00200	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000533	0.00200	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000276	0.00200	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000488	0.00200	U
106-93-4	1,2-Dibromoethane	ND	0.000252	0.00200	U
95-50-1	1,2-Dichlorobenzene	ND	0.000353	0.00200	U
107-06-2	1,2-Dichloroethane	ND	0.000282	0.00200	U
78-87-5	1,2-Dichloropropane	ND	0.000328	0.00200	U
541-73-1	1,3-Dichlorobenzene	ND	0.000147	0.00200	U
106-46-7	1,4-Dichlorobenzene	ND	0.000288	0.00200	U
78-93-3	2-Butanone	ND	0.000326	0.00500	U
591-78-6	2-Hexanone	ND	0.000187	0.00200	U
108-10-1	4-Methyl-2-pentanone	ND	0.000250	0.00200	U
67-64-1	Acetone	ND	0.000606	0.00500	U
71-43-2	Benzene	ND	0.000182	0.00200	U
74-97-5	Bromochloromethane	ND	0.000369	0.00200	U
75-27-4	Bromodichloromethane	ND	0.000251	0.00200	U
75-25-2	Bromoform	ND	0.000351	0.00200	U
74-83-9	Bromomethane	ND	0.000577	0.00200	U
75-15-0	Carbon disulfide	ND	0.000287	0.00200	U
56-23-5	Carbon Tetrachloride	ND	0.000301	0.00200	U
108-90-7	Chlorobenzene	ND	0.000290	0.00200	U
124-48-1	Chlorodibromomethane	ND	0.000246	0.00200	U
75-00-3	Chloroethane	ND	0.000341	0.00200	U
67-66-3	Chloroform	ND	0.000336	0.00200	U

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1111-BLK1**		

Init/Final Vol:	5 g / 5 mL	Prep Date:	10/10/2018 15:02	File ID:	3V33994.D
		Prep Batch:	B8J1111	Analyzed:	10/10/2018 15:02
		Matrix:	Soil	Sequence:	S8J1704
		Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
74-87-3	Chloromethane	ND	0.000770	0.00200	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000967	0.00200	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000253	0.00200	U
110-82-7	Cyclohexane	ND	0.000443	0.00200	U
75-71-8	Dichlorodifluoromethane	ND	0.000675	0.00200	U
100-41-4	EthylBenzene	ND	0.000271	0.00200	U
98-82-8	Isopropylbenzene	ND	0.000314	0.00200	U
179601-23-1	m+p-Xylenes	ND	0.000505	0.00400	U
79-20-9	Methyl Acetate	ND	0.000265	0.00200	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000338	0.00200	U
108-87-2	Methylcyclohexane	ND	0.000322	0.00200	U
75-09-2	Methylene Chloride	ND	0.000601	0.00200	U
95-47-6	o-Xylene	ND	0.000257	0.00200	U
100-42-5	Styrene	ND	0.000286	0.00200	U
75-65-0	tert-Butyl alcohol	ND	0.00420	0.0200	U
127-18-4	Tetrachloroethene	ND	0.000198	0.00200	U
108-88-3	Toluene	ND	0.000161	0.00200	U
1330-20-7	Total Xylenes	ND	0.000257	0.00200	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000271	0.00200	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000382	0.00200	U
79-01-6	Trichloroethene	ND	0.000294	0.00200	U
75-69-4	Trichlorofluoromethane	ND	0.000230	0.00200	U
75-01-4	Vinyl chloride	ND	0.000380	0.00200	U

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ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1111-BLK1**		

		Prep Date:	10/10/2018 15:02	File ID:	3V33994.D
Init/Final Vol:	5 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/2018 15:02
		Matrix:	Soil	Sequence:	S8J1704
		Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg wet)	RT	Q
	Sum of Tentatively Identified Compounds	0.000		

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Quantitation Report (QT/LSC Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V33994.D Vial: 45
Acq On : 10 Oct 2018 15:02 Operator: omd
Sample : B8J1111-BLK1 Inst : GCMS-3
Misc : soil re Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:24 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.49	168	145721	50.00	ug/kg	0.03
33) 1,4-Difluorobenzene	8.91	114	275232	50.00	ug/kg	0.02
52) Chlorobenzene-d5	14.07	82	144968	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.06	152	125977	50.00	ug/kg	0.00
System Monitoring Compounds						
26) Dibromofluoromethane	7.37	113	99990	56.41	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 112.82%			
43) Toluene-d8	11.54	98	325733	52.62	ug/kg	0.02
Spiked Amount 50.000	Range 66 - 134		Recovery = 105.24%			
62) 4-Bromofluorobenzene	16.11	95	145973	59.76	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.52%			

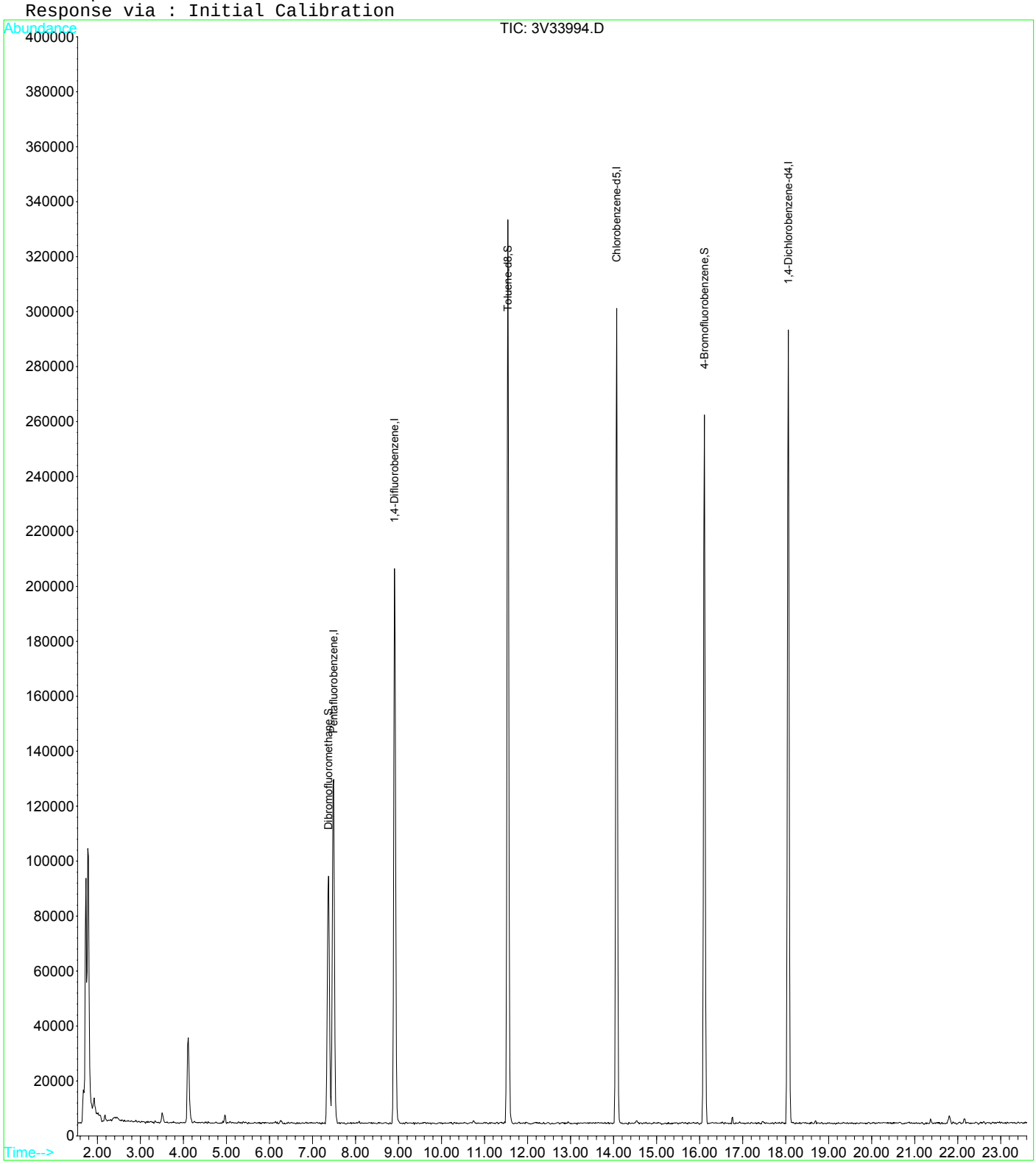
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V33994.D 0717WC3.M Wed Oct 17 12:06:31 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V33994.D Vial: 45
Acq On : 10 Oct 2018 15:02 Operator: omd
Sample : B8J1111-BLK1 Inst : GCMS-3
Misc : soil re Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:24 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



3V33994.D 0717WC3.M Wed Oct 17 12:06:31 2018 SS Page 2

15 15.1.

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1141-BLK1**		

Init/Final Vol:	5 g / 5 mL	Prep Date:	10/11/2018 13:05	File ID:	3V34019.D
		Prep Batch:	B8J1141	Analyzed:	10/11/2018 13:05
		Matrix:	Soil	Sequence:	S8J1706
		Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000292	0.00200	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000276	0.00200	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000856	0.00200	U
79-00-5	1,1,2-Trichloroethane	ND	0.000337	0.00200	U
75-34-3	1,1-Dichloroethane	ND	0.000292	0.00200	U
75-35-4	1,1-Dichloroethene	ND	0.000370	0.00200	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000432	0.00200	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000533	0.00200	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000276	0.00200	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000488	0.00200	U
106-93-4	1,2-Dibromoethane	ND	0.000252	0.00200	U
95-50-1	1,2-Dichlorobenzene	ND	0.000353	0.00200	U
107-06-2	1,2-Dichloroethane	ND	0.000282	0.00200	U
78-87-5	1,2-Dichloropropane	ND	0.000328	0.00200	U
541-73-1	1,3-Dichlorobenzene	ND	0.000147	0.00200	U
106-46-7	1,4-Dichlorobenzene	ND	0.000288	0.00200	U
78-93-3	2-Butanone	ND	0.000326	0.00500	U
591-78-6	2-Hexanone	ND	0.000187	0.00200	U
108-10-1	4-Methyl-2-pentanone	ND	0.000250	0.00200	U
67-64-1	Acetone	ND	0.000606	0.00500	U
71-43-2	Benzene	ND	0.000182	0.00200	U
74-97-5	Bromochloromethane	ND	0.000369	0.00200	U
75-27-4	Bromodichloromethane	ND	0.000251	0.00200	U
75-25-2	Bromoform	ND	0.000351	0.00200	U
74-83-9	Bromomethane	ND	0.000577	0.00200	U
75-15-0	Carbon disulfide	ND	0.000287	0.00200	U
56-23-5	Carbon Tetrachloride	ND	0.000301	0.00200	U
108-90-7	Chlorobenzene	ND	0.000290	0.00200	U
124-48-1	Chlorodibromomethane	ND	0.000246	0.00200	U
75-00-3	Chloroethane	ND	0.000341	0.00200	U
67-66-3	Chloroform	ND	0.000336	0.00200	U

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ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1141-BLK1**		

Init/Final Vol:	5 g / 5 mL	Prep Date:	10/11/2018 13:05	File ID:	3V34019.D
		Prep Batch:	B8J1141	Analyzed:	10/11/2018 13:05
		Matrix:	Soil	Sequence:	S8J1706
		Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
74-87-3	Chloromethane	ND	0.000770	0.00200	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000967	0.00200	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000253	0.00200	U
110-82-7	Cyclohexane	ND	0.000443	0.00200	U
75-71-8	Dichlorodifluoromethane	ND	0.000675	0.00200	U
100-41-4	EthylBenzene	ND	0.000271	0.00200	U
98-82-8	Isopropylbenzene	ND	0.000314	0.00200	U
179601-23-1	m+p-Xylenes	ND	0.000505	0.00400	U
79-20-9	Methyl Acetate	ND	0.000265	0.00200	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000338	0.00200	U
108-87-2	Methylcyclohexane	ND	0.000322	0.00200	U
75-09-2	Methylene Chloride	ND	0.000601	0.00200	U
95-47-6	o-Xylene	ND	0.000257	0.00200	U
100-42-5	Styrene	ND	0.000286	0.00200	U
75-65-0	tert-Butyl alcohol	ND	0.00420	0.0200	U
127-18-4	Tetrachloroethene	ND	0.000198	0.00200	U
108-88-3	Toluene	ND	0.000161	0.00200	U
1330-20-7	Total Xylenes	ND	0.000257	0.00200	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000271	0.00200	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000382	0.00200	U
79-01-6	Trichloroethene	ND	0.000294	0.00200	U
75-69-4	Trichlorofluoromethane	ND	0.000230	0.00200	U
75-01-4	Vinyl chloride	ND	0.000380	0.00200	U

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ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1141-BLK1**		

		Prep Date:	10/11/2018 13:05	File ID:	3V34019.D
Init/Final Vol:	5 g / 5 mL	Prep Batch:	B8J1141	Analyzed:	10/11/2018 13:05
		Matrix:	Soil	Sequence:	S8J1706
		Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg wet)	RT	Q
	Sum of Tentatively Identified Compounds	0.000		

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Quantitation Report (QT/LSC Reviewed)

Data File : G:\HPCHEM\3\DATA\10112018\3V34019.D Vial: 74
Acq On : 11 Oct 2018 13:05 Operator: omd
Sample : B8J1141-BLK1 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 12:27 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.54	168	160008	50.00	ug/kg	0.07
33) 1,4-Difluorobenzene	8.95	114	297018	50.00	ug/kg	0.06
52) Chlorobenzene-d5	14.12	82	159603	50.00	ug/kg	0.06
74) 1,4-Dichlorobenzene-d4	18.11	152	134115	50.00	ug/kg	0.04
System Monitoring Compounds						
26) Dibromofluoromethane	7.42	113	105989	54.46	ug/kg	0.07
Spiked Amount 50.000	Range 59 - 147		Recovery = 108.92%			
43) Toluene-d8	11.59	98	357963	53.58	ug/kg	0.06
Spiked Amount 50.000	Range 66 - 134		Recovery = 107.16%			
62) 4-Bromofluorobenzene	16.14	95	157684	58.64	ug/kg	0.04
Spiked Amount 50.000	Range 64 - 125		Recovery = 117.28%			

Target Compounds Qvalue

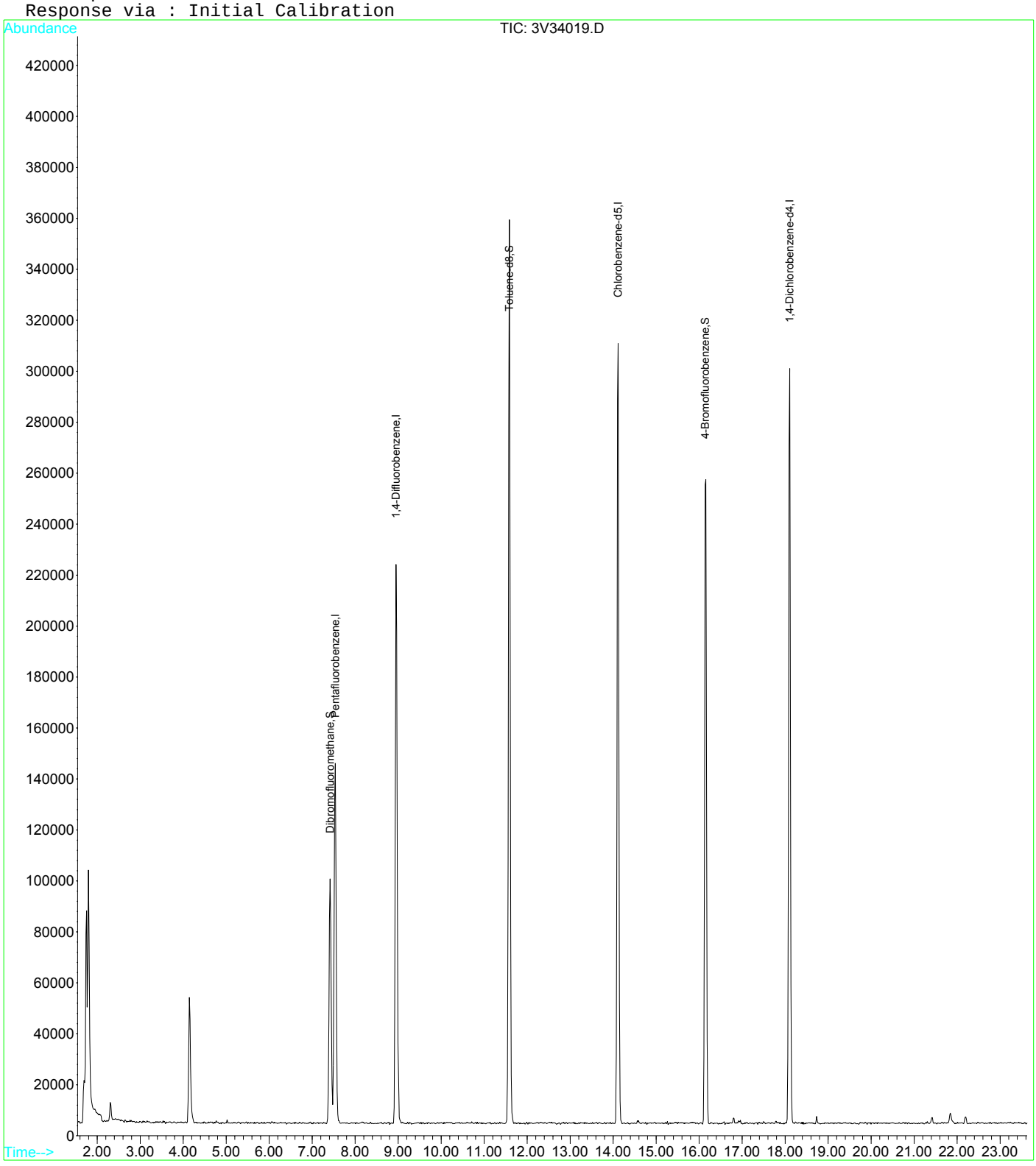
(#) = qualifier out of range (m) = manual integration
3V34019.D 0717WC3.M Wed Oct 17 12:26:09 2018 SS Page 1

15 15.1.

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10112018\3V34019.D Vial: 74
Acq On : 11 Oct 2018 13:05 Operator: omd
Sample : B8J1141-BLK1 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 12:27 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



3V34019.D 0717WC3.M Wed Oct 17 12:26:09 2018 SS Page 2

15 15.1.

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 18:59	File ID:	3V34002.D
Init/Final Vol:	9.1 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 18:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	89.91	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000178	0.00122	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000169	0.00122	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000523	0.00122	U
79-00-5	1,1,2-Trichloroethane	ND	0.000206	0.00122	U
75-34-3	1,1-Dichloroethane	ND	0.000178	0.00122	U
75-35-4	1,1-Dichloroethene	ND	0.000226	0.00122	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000264	0.00122	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000326	0.00122	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000169	0.00122	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000298	0.00122	U
106-93-4	1,2-Dibromoethane	ND	0.000154	0.00122	U
95-50-1	1,2-Dichlorobenzene	ND	0.000216	0.00122	U
107-06-2	1,2-Dichloroethane	ND	0.000172	0.00122	U
78-87-5	1,2-Dichloropropane	ND	0.000200	0.00122	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000898	0.00122	U
106-46-7	1,4-Dichlorobenzene	ND	0.000176	0.00122	U
78-93-3	2-Butanone	ND	0.000199	0.00306	U
591-78-6	2-Hexanone	ND	0.000114	0.00122	U
108-10-1	4-Methyl-2-pentanone	ND	0.000153	0.00122	U
67-64-1	Acetone	ND	0.000370	0.00306	U
71-43-2	Benzene	ND	0.000111	0.00122	U
74-97-5	Bromochloromethane	ND	0.000226	0.00122	U
75-27-4	Bromodichloromethane	ND	0.000153	0.00122	U
75-25-2	Bromoform	ND	0.000215	0.00122	U
74-83-9	Bromomethane	ND	0.000353	0.00122	U
75-15-0	Carbon disulfide	ND	0.000175	0.00122	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

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ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 18:59	File ID:	3V34002.D
Init/Final Vol:	9.1 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 18:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	89.91	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000184	0.00122	U
108-90-7	Chlorobenzene	ND	0.000177	0.00122	U
124-48-1	Chlorodibromomethane	ND	0.000150	0.00122	U
75-00-3	Chloroethane	ND	0.000208	0.00122	U
67-66-3	Chloroform	ND	0.000205	0.00122	U
74-87-3	Chloromethane	ND	0.000471	0.00122	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000591	0.00122	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000155	0.00122	U
110-82-7	Cyclohexane	ND	0.000271	0.00122	U
75-71-8	Dichlorodifluoromethane	ND	0.000413	0.00122	U
100-41-4	EthylBenzene	ND	0.000166	0.00122	U
98-82-8	Isopropylbenzene	ND	0.000192	0.00122	U
179601-23-1	m+p-Xylenes	ND	0.000309	0.00244	U
79-20-9	Methyl Acetate	ND	0.000162	0.00122	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000207	0.00122	U
108-87-2	Methylcyclohexane	ND	0.000197	0.00122	U
75-09-2	Methylene Chloride	ND	0.000367	0.00122	U
95-47-6	o-Xylene	ND	0.000157	0.00122	U
100-42-5	Styrene	ND	0.000175	0.00122	U
75-65-0	tert-Butyl alcohol	ND	0.00257	0.0122	U
127-18-4	Tetrachloroethene	0.00329	0.000121	0.00122	
108-88-3	Toluene	ND	0.0000984	0.00122	U
1330-20-7	Total Xylenes	ND	0.000157	0.00122	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000166	0.00122	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000233	0.00122	U
79-01-6	Trichloroethene	ND	0.000180	0.00122	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

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ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 18:59	File ID:	3V34002.D
Init/Final Vol:	9.1 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 18:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	89.91	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000141	0.00122	U
75-01-4	Vinyl chloride	ND	0.000232	0.00122	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 18:59	File ID:	3V34002.D
Init/Final Vol:	9.1 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 18:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	89.91	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34002.D Vial: 53
Acq On : 10 Oct 2018 18:59 Operator: omd
Sample : 8100452-01 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:33 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.49	168	150003	50.00	ug/kg	0.03
33) 1,4-Difluorobenzene	8.92	114	284129	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	152189	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.06	152	132035	50.00	ug/kg	0.00
System Monitoring Compounds						
26) Dibromofluoromethane	7.37	113	105847	58.01	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 116.02%			
43) Toluene-d8	11.54	98	339816	53.17	ug/kg	0.02
Spiked Amount 50.000	Range 66 - 134		Recovery = 106.34%			
62) 4-Bromofluorobenzene	16.11	95	153370	59.81	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.62%			
Target Compounds						Qvalue
49) Tetrachloroethene	12.57	166	7007	5.38	ug/kg	91

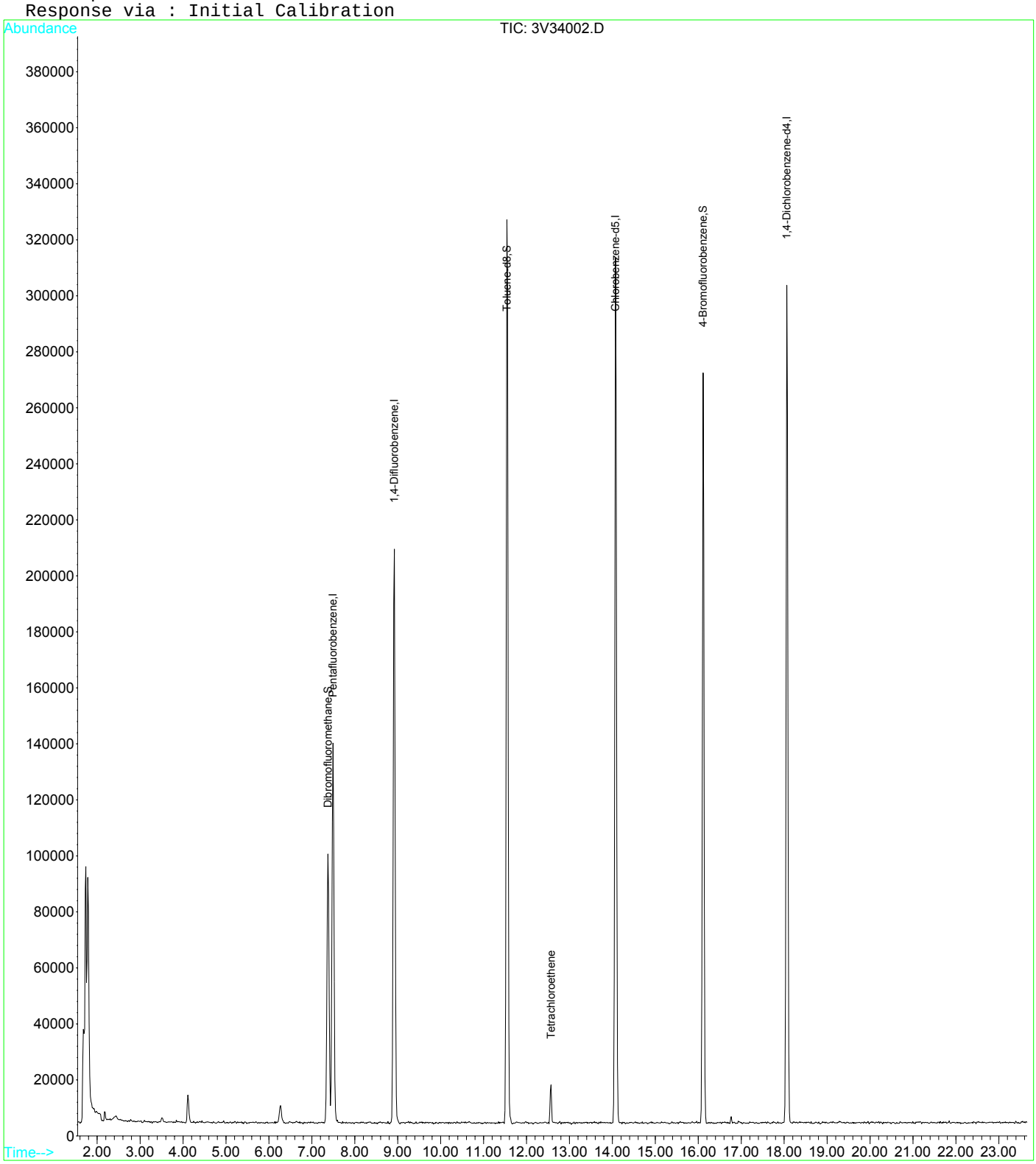
(#) = qualifier out of range (m) = manual integration
3V34002.D 0717WC3.M Thu Oct 11 11:39:55 2018 SS Page 1

15 15.2.

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34002.D Vial: 53
Acq On : 10 Oct 2018 18:59 Operator: omd
Sample : 8100452-01 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:33 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



15 15.2.

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 19:28	File ID:	3V34003.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.54	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000128	0.000879	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000121	0.000879	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000376	0.000879	U
79-00-5	1,1,2-Trichloroethane	ND	0.000148	0.000879	U
75-34-3	1,1-Dichloroethane	ND	0.000128	0.000879	U
75-35-4	1,1-Dichloroethene	ND	0.000163	0.000879	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000190	0.000879	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000234	0.000879	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000121	0.000879	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000214	0.000879	U
106-93-4	1,2-Dibromoethane	ND	0.000111	0.000879	U
95-50-1	1,2-Dichlorobenzene	ND	0.000155	0.000879	U
107-06-2	1,2-Dichloroethane	ND	0.000124	0.000879	U
78-87-5	1,2-Dichloropropane	ND	0.000144	0.000879	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000646	0.000879	U
106-46-7	1,4-Dichlorobenzene	ND	0.000127	0.000879	U
78-93-3	2-Butanone	ND	0.000143	0.00220	U
591-78-6	2-Hexanone	ND	0.0000821	0.000879	U
108-10-1	4-Methyl-2-pentanone	ND	0.000110	0.000879	U
67-64-1	Acetone	ND	0.000266	0.00220	U
71-43-2	Benzene	ND	0.0000799	0.000879	U
74-97-5	Bromochloromethane	ND	0.000162	0.000879	U
75-27-4	Bromodichloromethane	ND	0.000110	0.000879	U
75-25-2	Bromoform	ND	0.000154	0.000879	U
74-83-9	Bromomethane	ND	0.000253	0.000879	U
75-15-0	Carbon disulfide	ND	0.000126	0.000879	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 19:28	File ID:	3V34003.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.54	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000132	0.000879	U
108-90-7	Chlorobenzene	ND	0.000127	0.000879	U
124-48-1	Chlorodibromomethane	ND	0.000108	0.000879	U
75-00-3	Chloroethane	ND	0.000150	0.000879	U
67-66-3	Chloroform	ND	0.000148	0.000879	U
74-87-3	Chloromethane	ND	0.000338	0.000879	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000425	0.000879	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000111	0.000879	U
110-82-7	Cyclohexane	ND	0.000195	0.000879	U
75-71-8	Dichlorodifluoromethane	ND	0.000297	0.000879	U
100-41-4	EthylBenzene	ND	0.000119	0.000879	U
98-82-8	Isopropylbenzene	ND	0.000138	0.000879	U
179601-23-1	m+p-Xylenes	ND	0.000222	0.00176	U
79-20-9	Methyl Acetate	ND	0.000116	0.000879	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000148	0.000879	U
108-87-2	Methylcyclohexane	ND	0.000141	0.000879	U
75-09-2	Methylene Chloride	ND	0.000264	0.000879	U
95-47-6	o-Xylene	ND	0.000113	0.000879	U
100-42-5	Styrene	ND	0.000126	0.000879	U
75-65-0	tert-Butyl alcohol	ND	0.00184	0.00879	U
127-18-4	Tetrachloroethene	0.00240	0.0000870	0.000879	
108-88-3	Toluene	ND	0.0000707	0.000879	U
1330-20-7	Total Xylenes	ND	0.000113	0.000879	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000119	0.000879	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000168	0.000879	U
79-01-6	Trichloroethene	ND	0.000129	0.000879	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 19:28	File ID:	3V34003.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.54	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000101	0.000879	U
75-01-4	Vinyl chloride	ND	0.000167	0.000879	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 19:28	File ID:	3V34003.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.54	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34003.D Vial: 54
Acq On : 10 Oct 2018 19:28 Operator: omd
Sample : 8100452-02 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:34 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

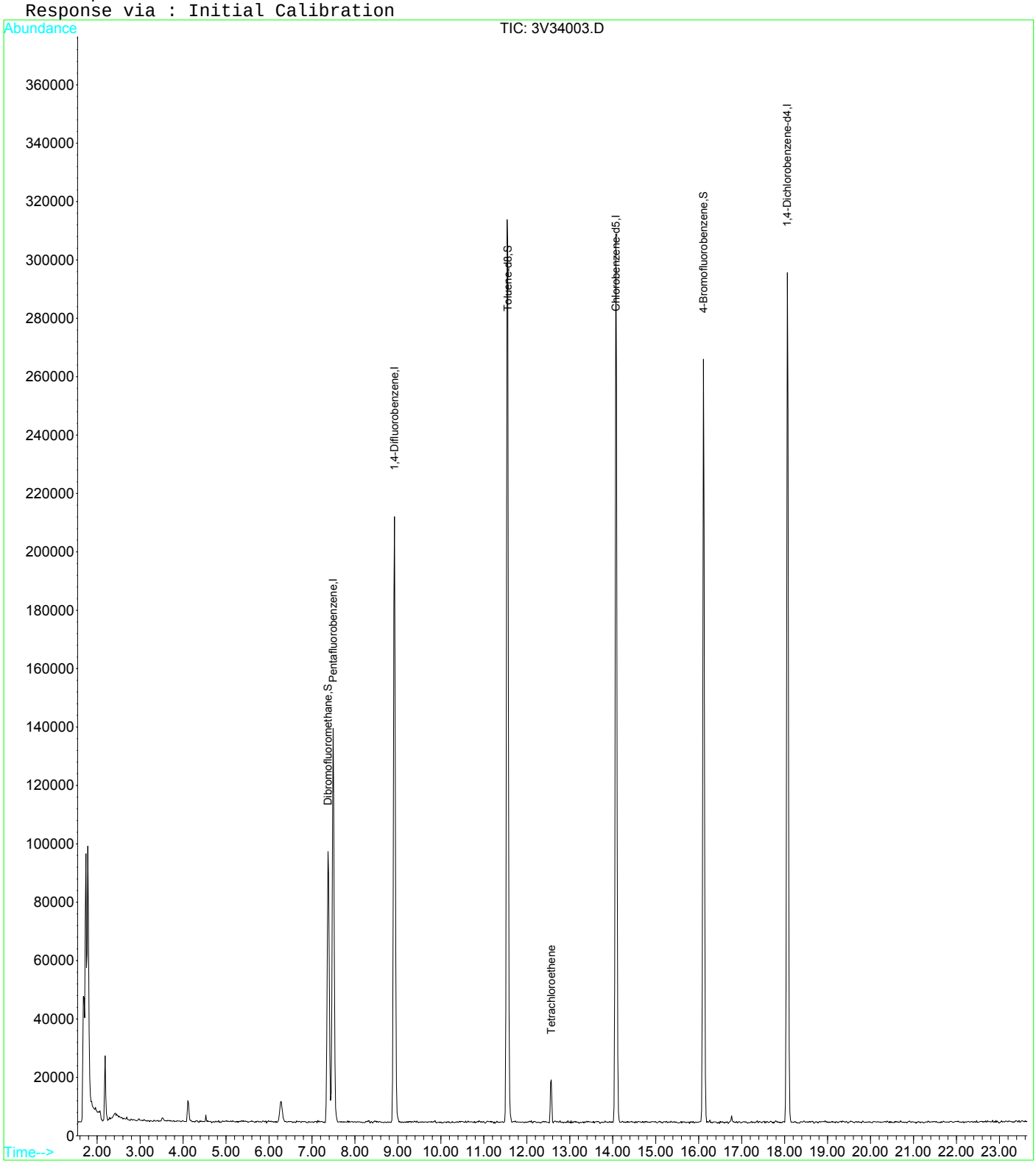
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.49	168	147411	50.00	ug/kg	0.03
33) 1,4-Difluorobenzene	8.92	114	282053	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	150180	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.06	152	126429	50.00	ug/kg	0.00
System Monitoring Compounds						
26) Dibromofluoromethane	7.37	113	103123	57.51	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 115.02%			
43) Toluene-d8	11.56	98	331639	52.28	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 104.56%			
62) 4-Bromofluorobenzene	16.11	95	149127	58.94	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 117.88%			
Target Compounds						Qvalue
49) Tetrachloroethene	12.57	166	7081	5.47	ug/kg	94

(#) = qualifier out of range (m) = manual integration
3V34003.D 0717WC3.M Thu Oct 11 11:39:56 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34003.D Vial: 54
Acq On : 10 Oct 2018 19:28 Operator: omd
Sample : 8100452-02 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:34 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/10/18 19:58	File ID:	3V34004.D
Init/Final Vol:	11.4 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:58
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.00	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000139	0.000954	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000132	0.000954	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000408	0.000954	U
79-00-5	1,1,2-Trichloroethane	ND	0.000161	0.000954	U
75-34-3	1,1-Dichloroethane	ND	0.000139	0.000954	U
75-35-4	1,1-Dichloroethene	ND	0.000176	0.000954	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000206	0.000954	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000254	0.000954	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000132	0.000954	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000233	0.000954	U
106-93-4	1,2-Dibromoethane	ND	0.000120	0.000954	U
95-50-1	1,2-Dichlorobenzene	ND	0.000168	0.000954	U
107-06-2	1,2-Dichloroethane	ND	0.000134	0.000954	U
78-87-5	1,2-Dichloropropane	ND	0.000156	0.000954	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000701	0.000954	U
106-46-7	1,4-Dichlorobenzene	ND	0.000137	0.000954	U
78-93-3	2-Butanone	ND	0.000155	0.00238	U
591-78-6	2-Hexanone	ND	0.0000892	0.000954	U
108-10-1	4-Methyl-2-pentanone	ND	0.000119	0.000954	U
67-64-1	Acetone	ND	0.000289	0.00238	U
71-43-2	Benzene	ND	0.0000868	0.000954	U
74-97-5	Bromochloromethane	ND	0.000176	0.000954	U
75-27-4	Bromodichloromethane	ND	0.000120	0.000954	U
75-25-2	Bromoform	ND	0.000167	0.000954	U
74-83-9	Bromomethane	ND	0.000275	0.000954	U
75-15-0	Carbon disulfide	ND	0.000137	0.000954	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/10/18 19:58	File ID:	3V34004.D
Init/Final Vol:	11.4 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:58
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.00	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000144	0.000954	U
108-90-7	Chlorobenzene	ND	0.000138	0.000954	U
124-48-1	Chlorodibromomethane	ND	0.000117	0.000954	U
75-00-3	Chloroethane	ND	0.000163	0.000954	U
67-66-3	Chloroform	ND	0.000160	0.000954	U
74-87-3	Chloromethane	ND	0.000367	0.000954	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000461	0.000954	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000121	0.000954	U
110-82-7	Cyclohexane	ND	0.000211	0.000954	U
75-71-8	Dichlorodifluoromethane	ND	0.000322	0.000954	U
100-41-4	EthylBenzene	ND	0.000129	0.000954	U
98-82-8	Isopropylbenzene	ND	0.000150	0.000954	U
179601-23-1	m+p-Xylenes	ND	0.000241	0.00191	U
79-20-9	Methyl Acetate	ND	0.000126	0.000954	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000161	0.000954	U
108-87-2	Methylcyclohexane	ND	0.000154	0.000954	U
75-09-2	Methylene Chloride	ND	0.000287	0.000954	U
95-47-6	o-Xylene	ND	0.000123	0.000954	U
100-42-5	Styrene	ND	0.000136	0.000954	U
75-65-0	tert-Butyl alcohol	ND	0.00200	0.00954	U
127-18-4	Tetrachloroethene	ND	0.0000944	0.000954	U
108-88-3	Toluene	ND	0.0000768	0.000954	U
1330-20-7	Total Xylenes	ND	0.000123	0.000954	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000129	0.000954	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000182	0.000954	U
79-01-6	Trichloroethene	ND	0.000140	0.000954	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/10/18 19:58	File ID:	3V34004.D
Init/Final Vol:	11.4 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:58
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.00	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000110	0.000954	U
75-01-4	Vinyl chloride	ND	0.000181	0.000954	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/10/18 19:58	File ID:	3V34004.D
Init/Final Vol:	11.4 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:58
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.00	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT/LSC Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34004.D Vial: 55
Acq On : 10 Oct 2018 19:58 Operator: omd
Sample : 8100452-05 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:37 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.49	168	153714	50.00	ug/kg	0.03
33) 1,4-Difluorobenzene	8.92	114	287940	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	152713	50.00	ug/kg	0.01
74) 1,4-Dichlorobenzene-d4	18.08	152	134717	50.00	ug/kg	0.01
System Monitoring Compounds						
26) Dibromofluoromethane	7.37	113	107367	57.43	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 114.86%			
43) Toluene-d8	11.56	98	345576	53.36	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 106.72%			
62) 4-Bromofluorobenzene	16.11	95	146652m	57.00	ug/kg	0.01
Spiked Amount 50.000	Range 64 - 125		Recovery = 114.00%			

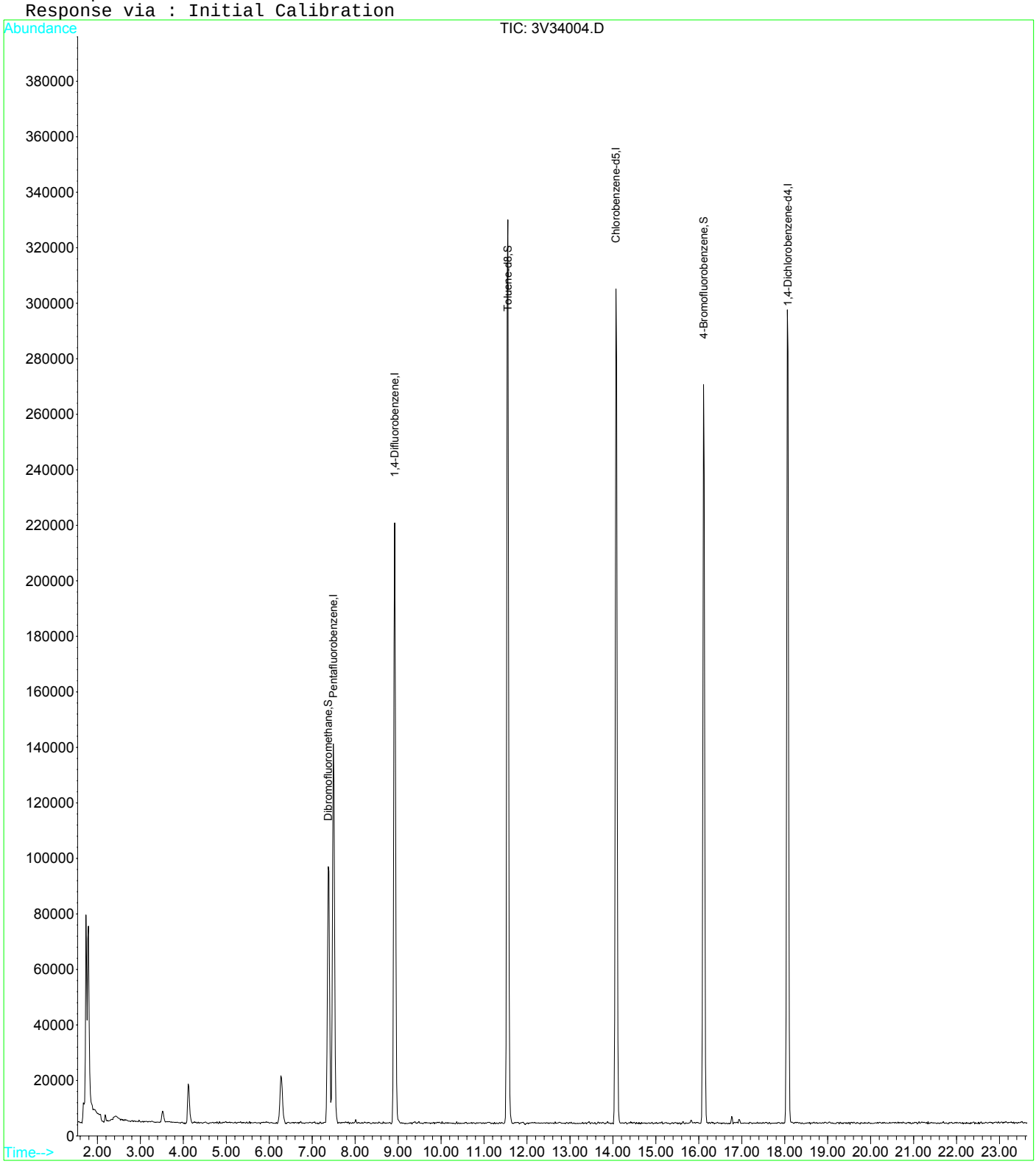
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34004.D 0717WC3.M Thu Oct 11 11:39:58 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34004.D Vial: 55
Acq On : 10 Oct 2018 19:58 Operator: omd
Sample : 8100452-05 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:37 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/10/18 20:28	File ID:	3V34005.D
Init/Final Vol:	10 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 20:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	87.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000166	0.00114	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000157	0.00114	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000488	0.00114	U
79-00-5	1,1,2-Trichloroethane	ND	0.000192	0.00114	U
75-34-3	1,1-Dichloroethane	ND	0.000166	0.00114	U
75-35-4	1,1-Dichloroethene	ND	0.000211	0.00114	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000246	0.00114	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000304	0.00114	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000157	0.00114	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000278	0.00114	U
106-93-4	1,2-Dibromoethane	ND	0.000144	0.00114	U
95-50-1	1,2-Dichlorobenzene	ND	0.000201	0.00114	U
107-06-2	1,2-Dichloroethane	ND	0.000161	0.00114	U
78-87-5	1,2-Dichloropropane	ND	0.000187	0.00114	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000838	0.00114	U
106-46-7	1,4-Dichlorobenzene	ND	0.000164	0.00114	U
78-93-3	2-Butanone	ND	0.000186	0.00285	U
591-78-6	2-Hexanone	ND	0.000107	0.00114	U
108-10-1	4-Methyl-2-pentanone	ND	0.000143	0.00114	U
67-64-1	Acetone	ND	0.000345	0.00285	U
71-43-2	Benzene	ND	0.000104	0.00114	U
74-97-5	Bromochloromethane	ND	0.000210	0.00114	U
75-27-4	Bromodichloromethane	ND	0.000143	0.00114	U
75-25-2	Bromoform	ND	0.000200	0.00114	U
74-83-9	Bromomethane	ND	0.000329	0.00114	U
75-15-0	Carbon disulfide	ND	0.000164	0.00114	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/10/18 20:28	File ID:	3V34005.D
Init/Final Vol:	10 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 20:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	87.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000172	0.00114	U
108-90-7	Chlorobenzene	ND	0.000165	0.00114	U
124-48-1	Chlorodibromomethane	ND	0.000140	0.00114	U
75-00-3	Chloroethane	ND	0.000194	0.00114	U
67-66-3	Chloroform	ND	0.000192	0.00114	U
74-87-3	Chloromethane	ND	0.000439	0.00114	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000551	0.00114	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000144	0.00114	U
110-82-7	Cyclohexane	ND	0.000253	0.00114	U
75-71-8	Dichlorodifluoromethane	ND	0.000385	0.00114	U
100-41-4	EthylBenzene	ND	0.000154	0.00114	U
98-82-8	Isopropylbenzene	ND	0.000179	0.00114	U
179601-23-1	m+p-Xylenes	ND	0.000288	0.00228	U
79-20-9	Methyl Acetate	ND	0.000151	0.00114	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000193	0.00114	U
108-87-2	Methylcyclohexane	ND	0.000184	0.00114	U
75-09-2	Methylene Chloride	ND	0.000343	0.00114	U
95-47-6	o-Xylene	ND	0.000147	0.00114	U
100-42-5	Styrene	ND	0.000163	0.00114	U
75-65-0	tert-Butyl alcohol	ND	0.00239	0.0114	U
127-18-4	Tetrachloroethene	ND	0.000113	0.00114	U
108-88-3	Toluene	ND	0.0000918	0.00114	U
1330-20-7	Total Xylenes	ND	0.000147	0.00114	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000154	0.00114	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000218	0.00114	U
79-01-6	Trichloroethene	ND	0.000168	0.00114	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/10/18 20:28	File ID:	3V34005.D
Init/Final Vol:	10 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 20:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	87.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000131	0.00114	U
75-01-4	Vinyl chloride	ND	0.000217	0.00114	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/10/18 20:28	File ID:	3V34005.D
Init/Final Vol:	10 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 20:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	87.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34005.D Vial: 56
Acq On : 10 Oct 2018 20:28 Operator: omd
Sample : 8100452-06 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:36 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.51	168	121951	50.00	ug/kg	0.05
33) 1,4-Difluorobenzene	8.92	114	230145	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	121749	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.06	152	109706	50.00	ug/kg	0.00
System Monitoring Compounds						
26) Dibromofluoromethane	7.37	113	86488	58.31	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 116.62%			
43) Toluene-d8	11.56	98	273822	52.90	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 105.80%			
62) 4-Bromofluorobenzene	16.11	95	122749m	59.84	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.68%			

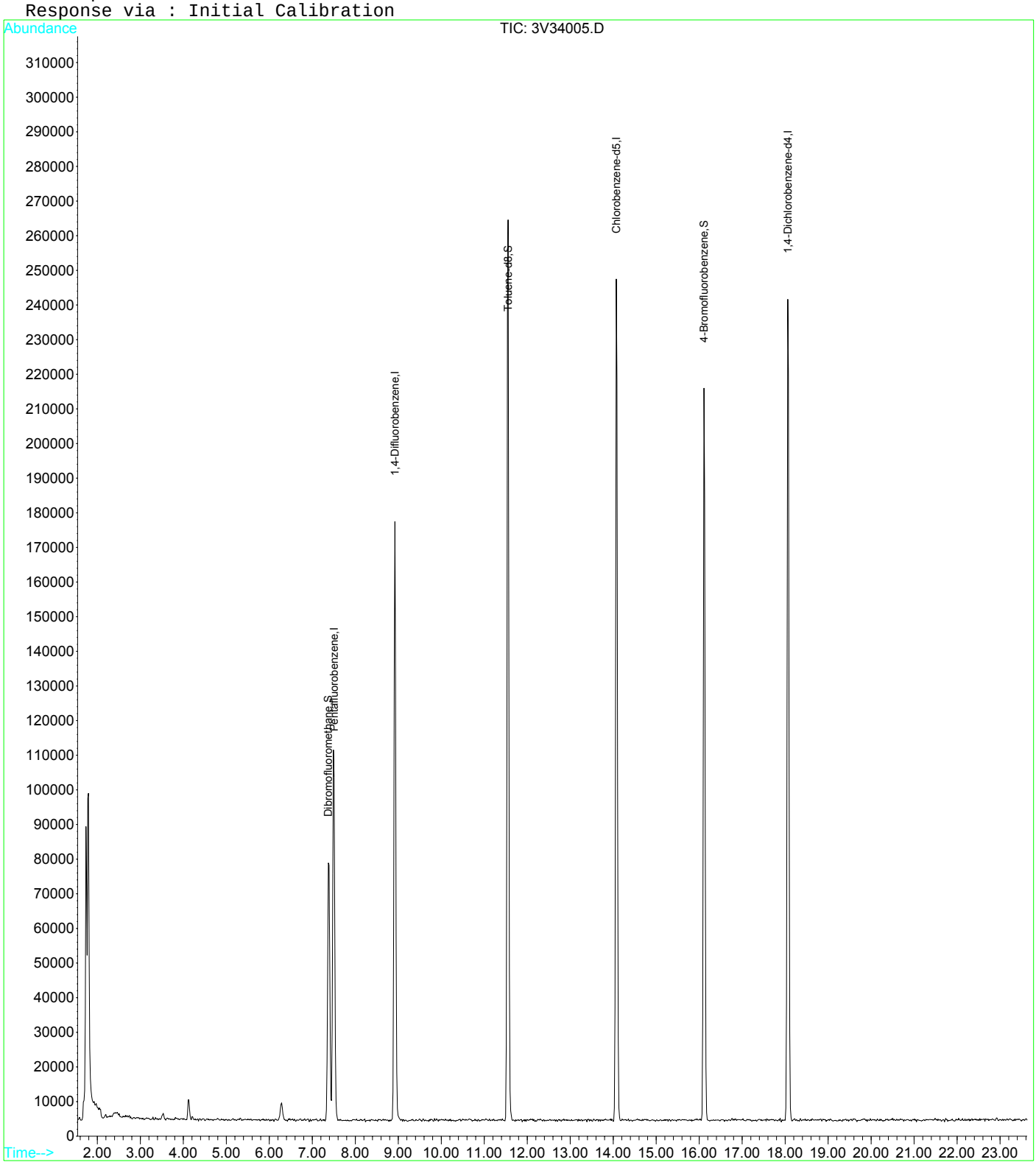
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34005.D 0717WC3.M Thu Oct 11 11:39:59 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34005.D Vial: 56
Acq On : 10 Oct 2018 20:28 Operator: omd
Sample : 8100452-06 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:36 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/10/18 21:02	File ID:	3V34006.D
Init/Final Vol:	10.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 21:02
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.36	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000155	0.00106	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000147	0.00106	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000455	0.00106	U
79-00-5	1,1,2-Trichloroethane	ND	0.000179	0.00106	U
75-34-3	1,1-Dichloroethane	ND	0.000155	0.00106	U
75-35-4	1,1-Dichloroethene	ND	0.000197	0.00106	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000230	0.00106	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000283	0.00106	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000147	0.00106	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000259	0.00106	U
106-93-4	1,2-Dibromoethane	ND	0.000134	0.00106	U
95-50-1	1,2-Dichlorobenzene	ND	0.000188	0.00106	U
107-06-2	1,2-Dichloroethane	ND	0.000150	0.00106	U
78-87-5	1,2-Dichloropropane	ND	0.000174	0.00106	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000781	0.00106	U
106-46-7	1,4-Dichlorobenzene	ND	0.000153	0.00106	U
78-93-3	2-Butanone	ND	0.000173	0.00266	U
591-78-6	2-Hexanone	ND	0.0000994	0.00106	U
108-10-1	4-Methyl-2-pentanone	ND	0.000133	0.00106	U
67-64-1	Acetone	ND	0.000322	0.00266	U
71-43-2	Benzene	ND	0.0000967	0.00106	U
74-97-5	Bromochloromethane	ND	0.000196	0.00106	U
75-27-4	Bromodichloromethane	ND	0.000133	0.00106	U
75-25-2	Bromoform	ND	0.000187	0.00106	U
74-83-9	Bromomethane	ND	0.000307	0.00106	U
75-15-0	Carbon disulfide	ND	0.000153	0.00106	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/10/18 21:02	File ID:	3V34006.D
Init/Final Vol:	10.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 21:02
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.36	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000160	0.00106	U
108-90-7	Chlorobenzene	ND	0.000154	0.00106	U
124-48-1	Chlorodibromomethane	ND	0.000131	0.00106	U
75-00-3	Chloroethane	ND	0.000181	0.00106	U
67-66-3	Chloroform	ND	0.000179	0.00106	U
74-87-3	Chloromethane	ND	0.000409	0.00106	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000514	0.00106	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000134	0.00106	U
110-82-7	Cyclohexane	ND	0.000235	0.00106	U
75-71-8	Dichlorodifluoromethane	ND	0.000359	0.00106	U
100-41-4	EthylBenzene	ND	0.000144	0.00106	U
98-82-8	Isopropylbenzene	ND	0.000167	0.00106	U
179601-23-1	m+p-Xylenes	ND	0.000268	0.00213	U
79-20-9	Methyl Acetate	ND	0.000141	0.00106	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000180	0.00106	U
108-87-2	Methylcyclohexane	ND	0.000171	0.00106	U
75-09-2	Methylene Chloride	ND	0.000319	0.00106	U
95-47-6	o-Xylene	ND	0.000137	0.00106	U
100-42-5	Styrene	ND	0.000152	0.00106	U
75-65-0	tert-Butyl alcohol	ND	0.00223	0.0106	U
127-18-4	Tetrachloroethene	ND	0.000105	0.00106	U
108-88-3	Toluene	ND	0.0000856	0.00106	U
1330-20-7	Total Xylenes	ND	0.000137	0.00106	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000144	0.00106	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000203	0.00106	U
79-01-6	Trichloroethene	ND	0.000156	0.00106	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/10/18 21:02	File ID:	3V34006.D
Init/Final Vol:	10.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 21:02
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.36	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000122	0.00106	U
75-01-4	Vinyl chloride	ND	0.000202	0.00106	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/10/18 21:02	File ID:	3V34006.D
Init/Final Vol:	10.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 21:02
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.36	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34006.D Vial: 57
Acq On : 10 Oct 2018 21:02 Operator: omd
Sample : 8100452-07 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:37 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.51	168	140882	50.00	ug/kg	0.05
33) 1,4-Difluorobenzene	8.92	114	262094	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	139480	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.08	152	114467	50.00	ug/kg	0.02
System Monitoring Compounds						
26) Dibromofluoromethane	7.39	113	96471	56.30	ug/kg	0.05
Spiked Amount 50.000	Range 59 - 147		Recovery = 112.60%			
43) Toluene-d8	11.56	98	313500	53.18	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 106.36%			
62) 4-Bromofluorobenzene	16.11	95	139563	59.39	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 118.78%			

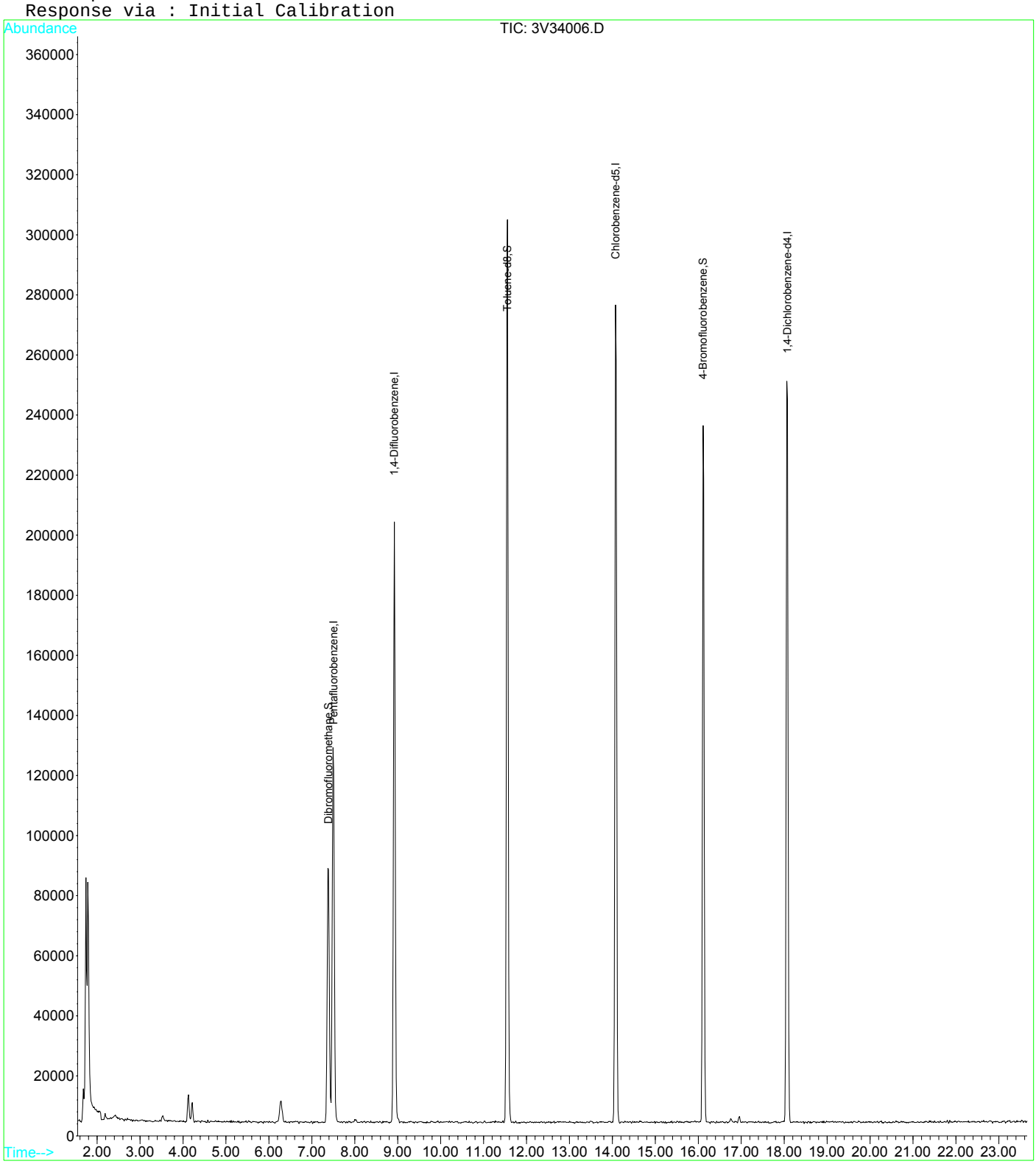
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34006.D 0717WC3.M Thu Oct 11 11:40:01 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34006.D Vial: 57
Acq On : 10 Oct 2018 21:02 Operator: omd
Sample : 8100452-07 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:37 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



3V34006.D 0717WC3.M Thu Oct 11 11:40:01 2018 SS Page 2

15 15.2.

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 13:34	File ID:	3V34020.D
Init/Final Vol:	4.1 g / 5 mL	Prep Batch:	B8J1141	Analyzed:	10/11/18 13:34
Dilution:	1	Matrix:	Soil	Sequence:	S8J1706
Percent Solids:	89.59	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000397	0.00272	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000376	0.00272	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.00117	0.00272	U
79-00-5	1,1,2-Trichloroethane	ND	0.000459	0.00272	U
75-34-3	1,1-Dichloroethane	ND	0.000397	0.00272	U
75-35-4	1,1-Dichloroethene	ND	0.000504	0.00272	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000588	0.00272	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000726	0.00272	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000376	0.00272	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000664	0.00272	U
106-93-4	1,2-Dibromoethane	ND	0.000343	0.00272	U
95-50-1	1,2-Dichlorobenzene	ND	0.000481	0.00272	U
107-06-2	1,2-Dichloroethane	ND	0.000384	0.00272	U
78-87-5	1,2-Dichloropropane	ND	0.000446	0.00272	U
541-73-1	1,3-Dichlorobenzene	ND	0.000200	0.00272	U
106-46-7	1,4-Dichlorobenzene	ND	0.000392	0.00272	U
78-93-3	2-Butanone	ND	0.000444	0.00681	U
591-78-6	2-Hexanone	ND	0.000255	0.00272	U
108-10-1	4-Methyl-2-pentanone	ND	0.000340	0.00272	U
67-64-1	Acetone	ND	0.000825	0.00681	U
71-43-2	Benzene	ND	0.000248	0.00272	U
74-97-5	Bromochloromethane	ND	0.000502	0.00272	U
75-27-4	Bromodichloromethane	ND	0.000342	0.00272	U
75-25-2	Bromoform	ND	0.000478	0.00272	U
74-83-9	Bromomethane	ND	0.000785	0.00272	U
75-15-0	Carbon disulfide	ND	0.000391	0.00272	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 13:34	File ID:	3V34020.D
Init/Final Vol:	4.1 g / 5 mL	Prep Batch:	B8J1141	Analyzed:	10/11/18 13:34
Dilution:	1	Matrix:	Soil	Sequence:	S8J1706
Percent Solids:	89.59	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000410	0.00272	U
108-90-7	Chlorobenzene	ND	0.000395	0.00272	U
124-48-1	Chlorodibromomethane	ND	0.000335	0.00272	U
75-00-3	Chloroethane	ND	0.000464	0.00272	U
67-66-3	Chloroform	ND	0.000457	0.00272	U
74-87-3	Chloromethane	ND	0.00105	0.00272	U
156-59-2	cis-1,2-Dichloroethene	ND	0.000132	0.00272	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000344	0.00272	U
110-82-7	Cyclohexane	ND	0.000603	0.00272	U
75-71-8	Dichlorodifluoromethane	ND	0.000919	0.00272	U
100-41-4	EthylBenzene	ND	0.000369	0.00272	U
98-82-8	Isopropylbenzene	ND	0.000427	0.00272	U
179601-23-1	m+p-Xylenes	ND	0.000687	0.00544	U
79-20-9	Methyl Acetate	ND	0.000361	0.00272	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000460	0.00272	U
108-87-2	Methylcyclohexane	ND	0.000438	0.00272	U
75-09-2	Methylene Chloride	ND	0.000818	0.00272	U
95-47-6	o-Xylene	ND	0.000350	0.00272	U
100-42-5	Styrene	ND	0.000389	0.00272	U
75-65-0	tert-Butyl alcohol	ND	0.00572	0.0272	U
127-18-4	Tetrachloroethene	ND	0.000270	0.00272	U
108-88-3	Toluene	ND	0.000219	0.00272	U
1330-20-7	Total Xylenes	ND	0.000350	0.00272	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000369	0.00272	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000520	0.00272	U
79-01-6	Trichloroethene	ND	0.000400	0.00272	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 13:34	File ID:	3V34020.D
Init/Final Vol:	4.1 g / 5 mL	Prep Batch:	B8J1141	Analyzed:	10/11/18 13:34
Dilution:	1	Matrix:	Soil	Sequence:	S8J1706
Percent Solids:	89.59	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000313	0.00272	U
75-01-4	Vinyl chloride	ND	0.000517	0.00272	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 13:34	File ID:	3V34020.D
Init/Final Vol:	4.1 g / 5 mL	Prep Batch:	B8J1141	Analyzed:	10/11/18 13:34
Dilution:	1	Matrix:	Soil	Sequence:	S8J1706
Percent Solids:	89.59	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10112018\3V34020.D Vial: 75
Acq On : 11 Oct 2018 13:34 Operator: omd
Sample : 8100452-08 Inst : GCMS-3
Misc : soil re Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 16:25 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.54	168	157363	50.00	ug/kg	0.07
33) 1,4-Difluorobenzene	8.95	114	288376	50.00	ug/kg	0.06
52) Chlorobenzene-d5	14.10	82	154637	50.00	ug/kg	0.05
74) 1,4-Dichlorobenzene-d4	18.11	152	136983	50.00	ug/kg	0.05
System Monitoring Compounds						
26) Dibromofluoromethane	7.42	113	106632	55.71	ug/kg	0.07
Spiked Amount 50.000	Range 59 - 147		Recovery = 111.42%			
43) Toluene-d8	11.59	98	346621	53.44	ug/kg	0.06
Spiked Amount 50.000	Range 66 - 134		Recovery = 106.88%			
62) 4-Bromofluorobenzene	16.14	95	156107	59.92	ug/kg	0.05
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.84%			

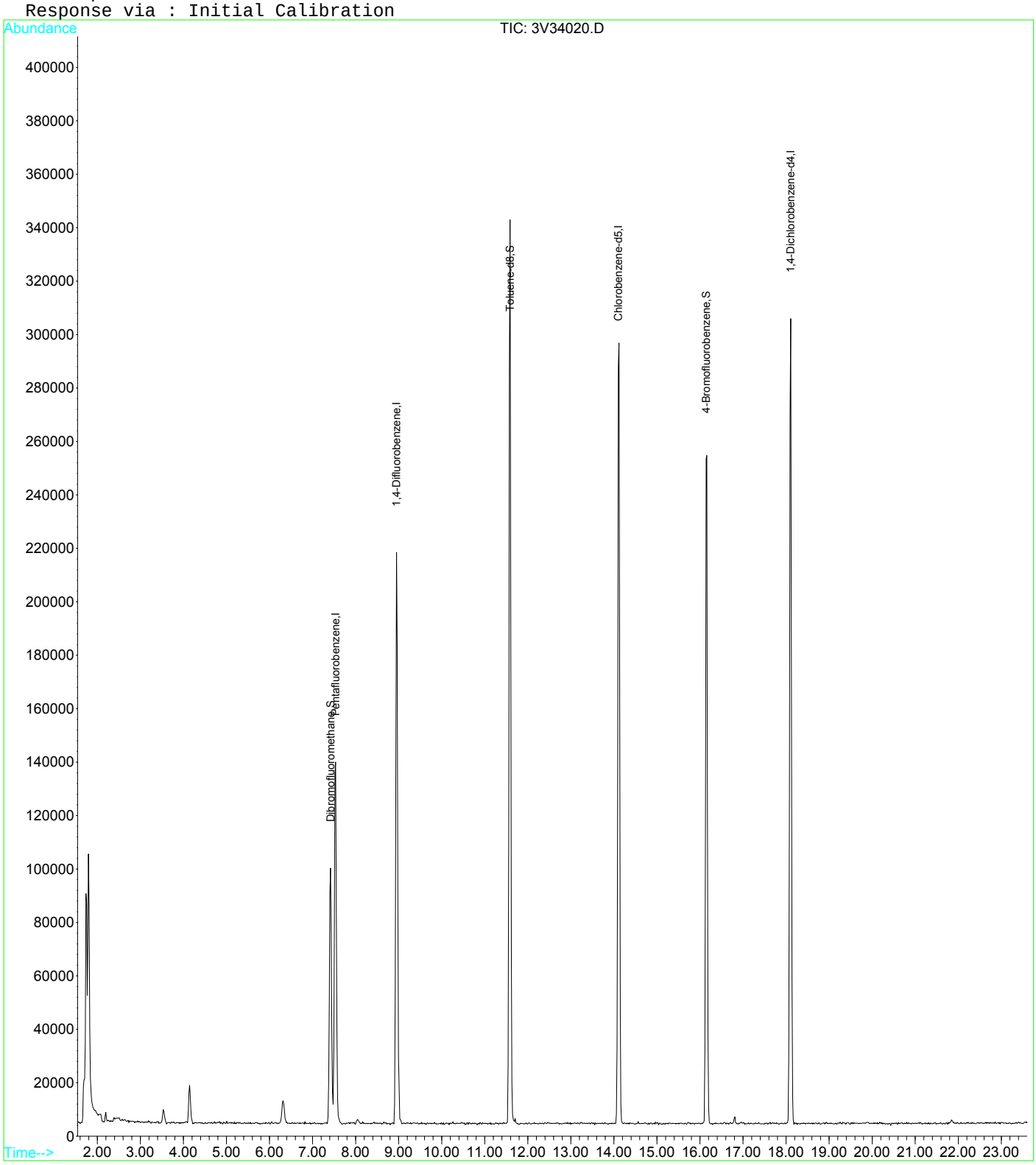
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34020.D 0717WC3.M Thu Oct 11 16:23:23 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10112018\3V34020.D Vial: 75
Acq On : 11 Oct 2018 13:34 Operator: omd
Sample : 8100452-08 Inst : GCMS-3
Misc : soil re Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 16:25 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:01	File ID:	3V34008.D
Init/Final Vol:	14.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:01
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	90.63	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000109	0.000746	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000103	0.000746	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000319	0.000746	U
79-00-5	1,1,2-Trichloroethane	ND	0.000126	0.000746	U
75-34-3	1,1-Dichloroethane	ND	0.000109	0.000746	U
75-35-4	1,1-Dichloroethene	ND	0.000138	0.000746	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000161	0.000746	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000199	0.000746	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000103	0.000746	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000182	0.000746	U
106-93-4	1,2-Dibromoethane	ND	0.0000939	0.000746	U
95-50-1	1,2-Dichlorobenzene	ND	0.000132	0.000746	U
107-06-2	1,2-Dichloroethane	ND	0.000105	0.000746	U
78-87-5	1,2-Dichloropropane	ND	0.000122	0.000746	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000548	0.000746	U
106-46-7	1,4-Dichlorobenzene	ND	0.000107	0.000746	U
78-93-3	2-Butanone	ND	0.000122	0.00186	U
591-78-6	2-Hexanone	ND	0.0000697	0.000746	U
108-10-1	4-Methyl-2-pentanone	ND	0.0000932	0.000746	U
67-64-1	Acetone	ND	0.000226	0.00186	U
71-43-2	Benzene	ND	0.0000678	0.000746	U
74-97-5	Bromochloromethane	ND	0.000138	0.000746	U
75-27-4	Bromodichloromethane	ND	0.0000936	0.000746	U
75-25-2	Bromoform	ND	0.000131	0.000746	U
74-83-9	Bromomethane	ND	0.000215	0.000746	U
75-15-0	Carbon disulfide	ND	0.000107	0.000746	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:01	File ID:	3V34008.D
Init/Final Vol:	14.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:01
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	90.63	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000112	0.000746	U
108-90-7	Chlorobenzene	ND	0.000108	0.000746	U
124-48-1	Chlorodibromomethane	ND	0.0000917	0.000746	U
75-00-3	Chloroethane	ND	0.000127	0.000746	U
67-66-3	Chloroform	ND	0.000125	0.000746	U
74-87-3	Chloromethane	ND	0.000287	0.000746	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000360	0.000746	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.0000943	0.000746	U
110-82-7	Cyclohexane	ND	0.000165	0.000746	U
75-71-8	Dichlorodifluoromethane	ND	0.000252	0.000746	U
100-41-4	EthylBenzene	ND	0.000101	0.000746	U
98-82-8	Isopropylbenzene	ND	0.000117	0.000746	U
179601-23-1	m+p-Xylenes	ND	0.000188	0.00149	U
79-20-9	Methyl Acetate	ND	0.0000988	0.000746	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000126	0.000746	U
108-87-2	Methylcyclohexane	ND	0.000120	0.000746	U
75-09-2	Methylene Chloride	ND	0.000224	0.000746	U
95-47-6	o-Xylene	ND	0.0000958	0.000746	U
100-42-5	Styrene	ND	0.000107	0.000746	U
75-65-0	tert-Butyl alcohol	ND	0.00157	0.00746	U
127-18-4	Tetrachloroethene	ND	0.0000738	0.000746	U
108-88-3	Toluene	ND	0.0000600	0.000746	U
1330-20-7	Total Xylenes	ND	0.0000958	0.000746	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000101	0.000746	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000142	0.000746	U
79-01-6	Trichloroethene	ND	0.000110	0.000746	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:01	File ID:	3V34008.D
Init/Final Vol:	14.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:01
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	90.63	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.0000857	0.000746	U
75-01-4	Vinyl chloride	ND	0.000142	0.000746	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:01	File ID:	3V34008.D
Init/Final Vol:	14.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:01
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	90.63	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34008.D Vial: 59
Acq On : 10 Oct 2018 22:01 Operator: omd
Sample : 8100452-11 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:38 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.49	168	147505	50.00	ug/kg	0.03
33) 1,4-Difluorobenzene	8.92	114	269462	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	143908	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.08	152	125562	50.00	ug/kg	0.02
System Monitoring Compounds						
26) Dibromofluoromethane	7.37	113	99824	55.64	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 111.28%			
43) Toluene-d8	11.56	98	321151	52.99	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 105.98%			
62) 4-Bromofluorobenzene	16.11	95	145178	59.88	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.76%			

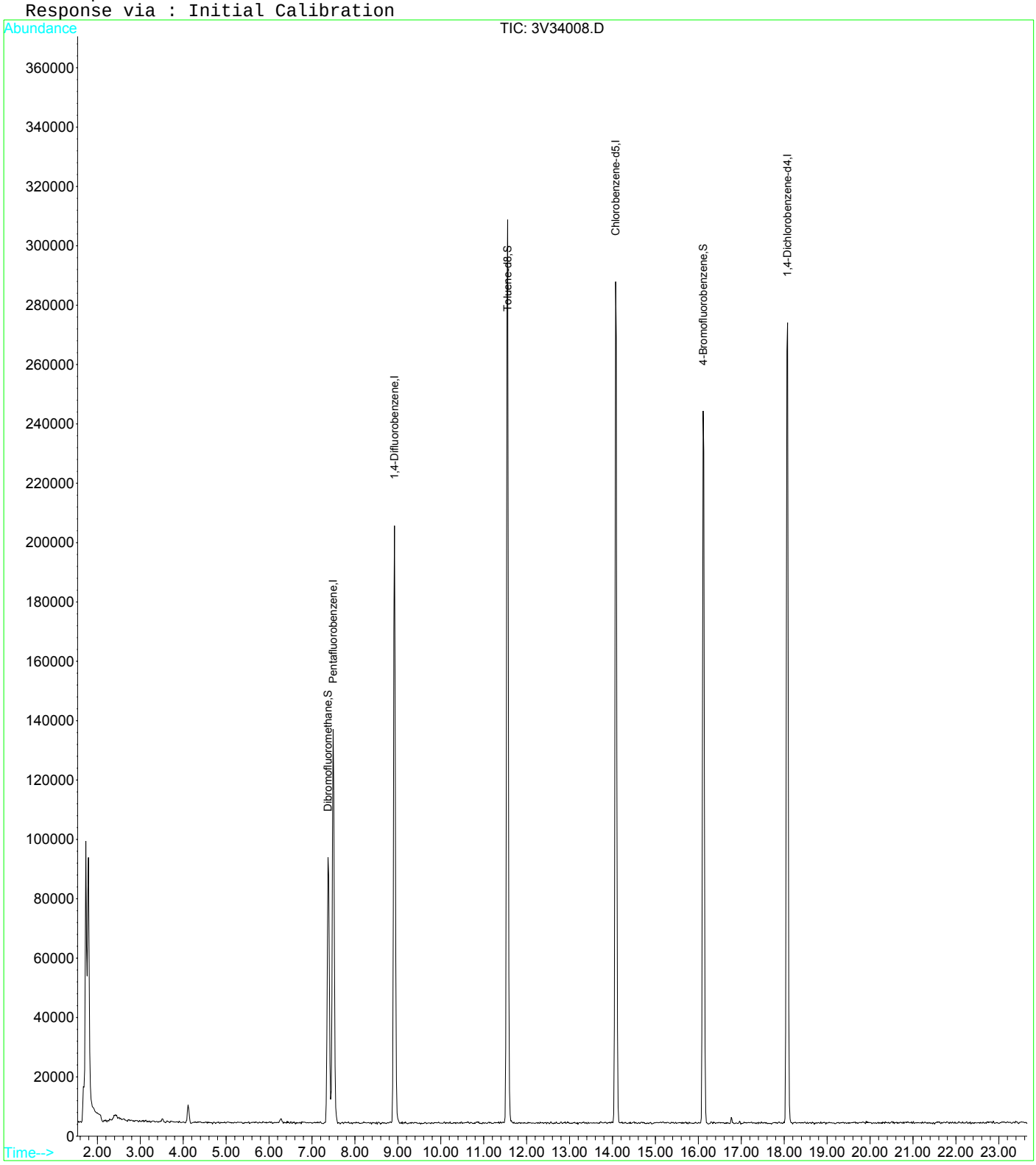
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34008.D 0717WC3.M Thu Oct 11 11:40:03 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34008.D Vial: 59
Acq On : 10 Oct 2018 22:01 Operator: omd
Sample : 8100452-11 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:38 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



3V34008.D 0717WC3.M Thu Oct 11 11:40:03 2018 SS Page 2

15 15.2.

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:30	File ID:	3V34009.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:30
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000129	0.000887	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000122	0.000887	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000379	0.000887	U
79-00-5	1,1,2-Trichloroethane	ND	0.000149	0.000887	U
75-34-3	1,1-Dichloroethane	ND	0.000129	0.000887	U
75-35-4	1,1-Dichloroethene	ND	0.000164	0.000887	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000192	0.000887	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000236	0.000887	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000122	0.000887	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000216	0.000887	U
106-93-4	1,2-Dibromoethane	ND	0.000112	0.000887	U
95-50-1	1,2-Dichlorobenzene	ND	0.000156	0.000887	U
107-06-2	1,2-Dichloroethane	ND	0.000125	0.000887	U
78-87-5	1,2-Dichloropropane	ND	0.000145	0.000887	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000652	0.000887	U
106-46-7	1,4-Dichlorobenzene	ND	0.000128	0.000887	U
78-93-3	2-Butanone	ND	0.000145	0.00222	U
591-78-6	2-Hexanone	ND	0.0000829	0.000887	U
108-10-1	4-Methyl-2-pentanone	ND	0.000111	0.000887	U
67-64-1	Acetone	ND	0.000269	0.00222	U
71-43-2	Benzene	ND	0.0000807	0.000887	U
74-97-5	Bromochloromethane	ND	0.000164	0.000887	U
75-27-4	Bromodichloromethane	ND	0.000111	0.000887	U
75-25-2	Bromoform	ND	0.000156	0.000887	U
74-83-9	Bromomethane	ND	0.000256	0.000887	U
75-15-0	Carbon disulfide	ND	0.000127	0.000887	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:30	File ID:	3V34009.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:30
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000133	0.000887	U
108-90-7	Chlorobenzene	ND	0.000129	0.000887	U
124-48-1	Chlorodibromomethane	ND	0.000109	0.000887	U
75-00-3	Chloroethane	ND	0.000151	0.000887	U
67-66-3	Chloroform	ND	0.000149	0.000887	U
74-87-3	Chloromethane	ND	0.000341	0.000887	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000429	0.000887	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000112	0.000887	U
110-82-7	Cyclohexane	ND	0.000196	0.000887	U
75-71-8	Dichlorodifluoromethane	ND	0.000299	0.000887	U
100-41-4	EthylBenzene	ND	0.000120	0.000887	U
98-82-8	Isopropylbenzene	ND	0.000139	0.000887	U
179601-23-1	m+p-Xylenes	ND	0.000224	0.00177	U
79-20-9	Methyl Acetate	ND	0.000117	0.000887	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000150	0.000887	U
108-87-2	Methylcyclohexane	ND	0.000143	0.000887	U
75-09-2	Methylene Chloride	ND	0.000266	0.000887	U
95-47-6	o-Xylene	ND	0.000114	0.000887	U
100-42-5	Styrene	ND	0.000127	0.000887	U
75-65-0	tert-Butyl alcohol	ND	0.00186	0.00887	U
127-18-4	Tetrachloroethene	ND	0.0000878	0.000887	U
108-88-3	Toluene	ND	0.0000714	0.000887	U
1330-20-7	Total Xylenes	ND	0.000114	0.000887	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000120	0.000887	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000169	0.000887	U
79-01-6	Trichloroethene	ND	0.000130	0.000887	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:30	File ID:	3V34009.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:30
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000102	0.000887	U
75-01-4	Vinyl chloride	ND	0.000168	0.000887	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:30	File ID:	3V34009.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:30
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT/LSC Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34009.D Vial: 60
Acq On : 10 Oct 2018 22:30 Operator: omd
Sample : 8100452-12 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:40 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.51	168	137633	50.00	ug/kg	0.04
33) 1,4-Difluorobenzene	8.92	114	257853	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	137391	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.08	152	119681	50.00	ug/kg	0.02
System Monitoring Compounds						
26) Dibromofluoromethane	7.39	113	94850	56.66	ug/kg	0.04
Spiked Amount 50.000	Range 59 - 147		Recovery = 113.32%			
43) Toluene-d8	11.56	98	307658	53.05	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 106.10%			
62) 4-Bromofluorobenzene	16.11	95	138293m	59.74	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.48%			

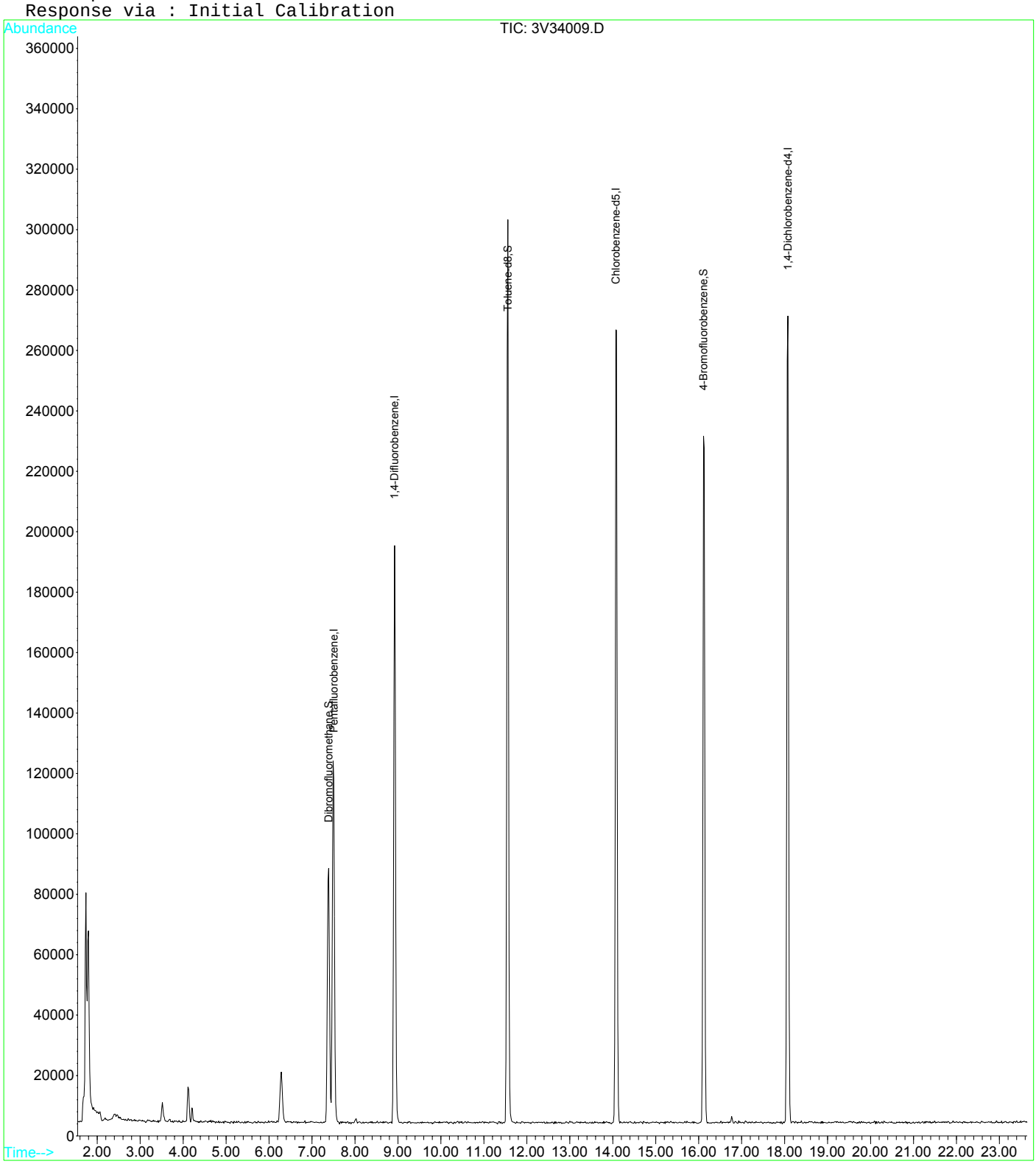
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34009.D 0717WC3.M Thu Oct 11 11:40:04 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34009.D Vial: 60
Acq On : 10 Oct 2018 22:30 Operator: omd
Sample : 8100452-12 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:40 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:59	File ID:	3V34010.D
Init/Final Vol:	11.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.94	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000133	0.000912	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000126	0.000912	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000390	0.000912	U
79-00-5	1,1,2-Trichloroethane	ND	0.000154	0.000912	U
75-34-3	1,1-Dichloroethane	ND	0.000133	0.000912	U
75-35-4	1,1-Dichloroethene	ND	0.000169	0.000912	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000197	0.000912	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000243	0.000912	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000126	0.000912	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000222	0.000912	U
106-93-4	1,2-Dibromoethane	ND	0.000115	0.000912	U
95-50-1	1,2-Dichlorobenzene	ND	0.000161	0.000912	U
107-06-2	1,2-Dichloroethane	ND	0.000129	0.000912	U
78-87-5	1,2-Dichloropropane	ND	0.000150	0.000912	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000670	0.000912	U
106-46-7	1,4-Dichlorobenzene	ND	0.000131	0.000912	U
78-93-3	2-Butanone	ND	0.000149	0.00228	U
591-78-6	2-Hexanone	ND	0.0000853	0.000912	U
108-10-1	4-Methyl-2-pentanone	ND	0.000114	0.000912	U
67-64-1	Acetone	ND	0.000276	0.00228	U
71-43-2	Benzene	ND	0.0000830	0.000912	U
74-97-5	Bromochloromethane	ND	0.000168	0.000912	U
75-27-4	Bromodichloromethane	ND	0.000114	0.000912	U
75-25-2	Bromoform	ND	0.000160	0.000912	U
74-83-9	Bromomethane	ND	0.000263	0.000912	U
75-15-0	Carbon disulfide	ND	0.000131	0.000912	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:59	File ID:	3V34010.D
Init/Final Vol:	11.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.94	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000137	0.000912	U
108-90-7	Chlorobenzene	ND	0.000132	0.000912	U
124-48-1	Chlorodibromomethane	ND	0.000112	0.000912	U
75-00-3	Chloroethane	ND	0.000155	0.000912	U
67-66-3	Chloroform	ND	0.000153	0.000912	U
74-87-3	Chloromethane	ND	0.000351	0.000912	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000441	0.000912	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000115	0.000912	U
110-82-7	Cyclohexane	ND	0.000202	0.000912	U
75-71-8	Dichlorodifluoromethane	ND	0.000308	0.000912	U
100-41-4	EthylBenzene	ND	0.000124	0.000912	U
98-82-8	Isopropylbenzene	ND	0.000143	0.000912	U
179601-23-1	m+p-Xylenes	ND	0.000230	0.00182	U
79-20-9	Methyl Acetate	ND	0.000121	0.000912	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000154	0.000912	U
108-87-2	Methylcyclohexane	ND	0.000147	0.000912	U
75-09-2	Methylene Chloride	ND	0.000274	0.000912	U
95-47-6	o-Xylene	ND	0.000117	0.000912	U
100-42-5	Styrene	ND	0.000130	0.000912	U
75-65-0	tert-Butyl alcohol	ND	0.00191	0.00912	U
127-18-4	Tetrachloroethene	ND	0.0000903	0.000912	U
108-88-3	Toluene	ND	0.0000734	0.000912	U
1330-20-7	Total Xylenes	ND	0.000117	0.000912	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000124	0.000912	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000174	0.000912	U
79-01-6	Trichloroethene	ND	0.000134	0.000912	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:59	File ID:	3V34010.D
Init/Final Vol:	11.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.94	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000105	0.000912	U
75-01-4	Vinyl chloride	ND	0.000173	0.000912	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:59	File ID:	3V34010.D
Init/Final Vol:	11.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.94	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT/LSC Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34010.D Vial: 61
Acq On : 10 Oct 2018 22:59 Operator: omd
Sample : 8100452-14 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:41 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.51	168	149345	50.00	ug/kg	0.05
33) 1,4-Difluorobenzene	8.92	114	275625	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.09	82	150050	50.00	ug/kg	0.03
74) 1,4-Dichlorobenzene-d4	18.08	152	131114	50.00	ug/kg	0.02
System Monitoring Compounds						
26) Dibromofluoromethane	7.39	113	102924	56.66	ug/kg	0.05
Spiked Amount 50.000	Range 59 - 147		Recovery = 113.32%			
43) Toluene-d8	11.56	98	331966	53.55	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 107.10%			
62) 4-Bromofluorobenzene	16.13	95	151194	59.80	ug/kg	0.03
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.60%			

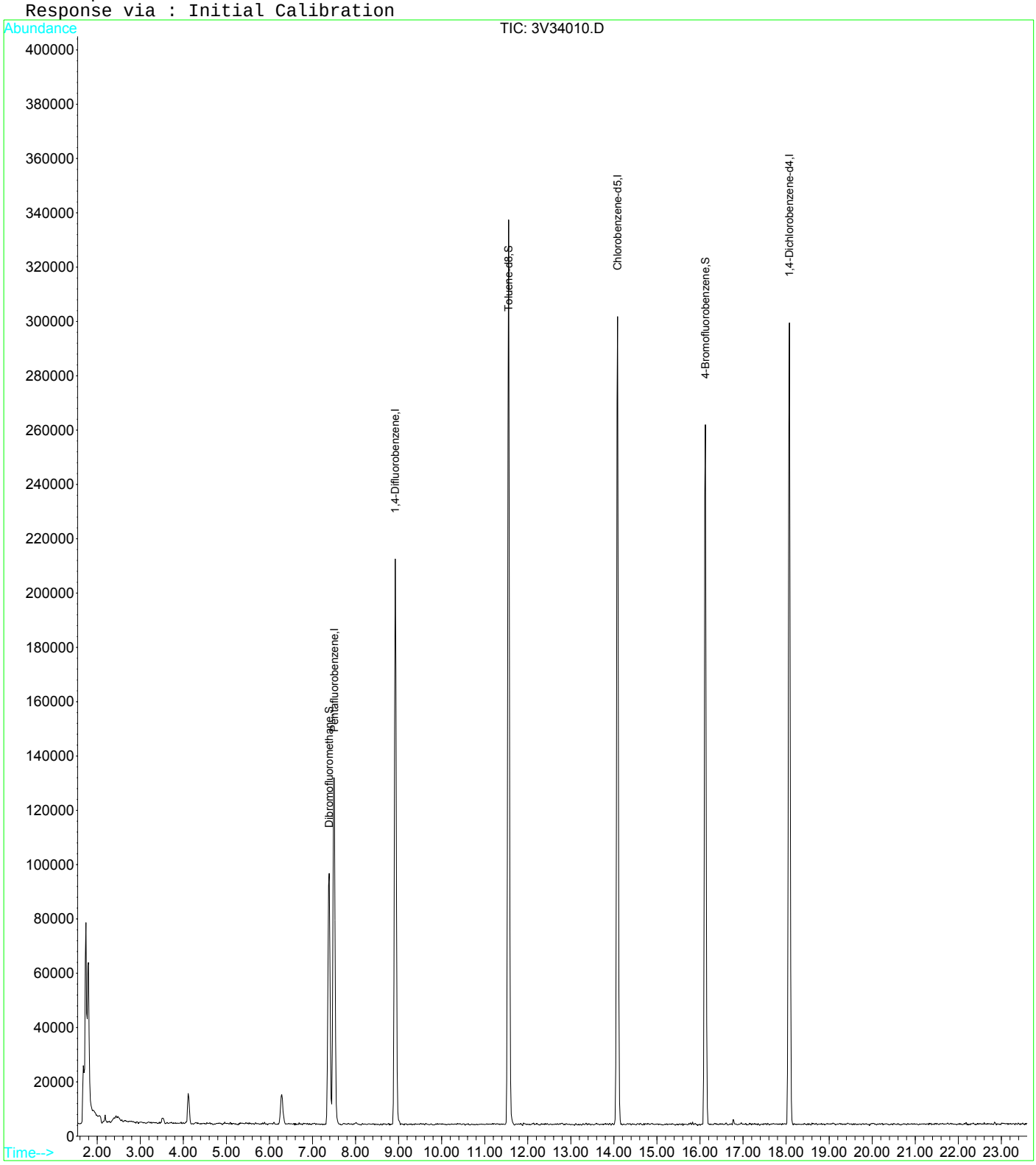
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34010.D 0717WC3.M Thu Oct 11 11:40:05 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34010.D Vial: 61
Acq On : 10 Oct 2018 22:59 Operator: omd
Sample : 8100452-14 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:41 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



SURROGATE RECOVERIES

Analysis Class: VOLATILES

Matrix: Soil **Method:** SW 846 8260C

VO+15

Lab Number	File ID	DBF	TOL-d8	BFB
8100452-01	3V34002.D	116	106	120
8100452-02	3V34003.D	115	105	118
8100452-05	3V34004.D	115	107	114
8100452-06	3V34005.D	117	106	120
8100452-07	3V34006.D	113	106	119
8100452-08	3V34020.D	111	107	120
8100452-11	3V34008.D	111	106	120
8100452-12	3V34009.D	113	106	119
8100452-14	3V34010.D	113	107	120
B8J1111-BLK1	3V33994.D	113	105	120
B8J1111-BS1	3V33992.D	109	107	117
B8J1111-MS1	3V34013.D	109	107	121
B8J1111-MSD1	3V34014.D	113	106	120
B8J1141-BLK1	3V34019.D	109	107	117
B8J1141-BS1	3V34018.D	107	108	119
B8J1141-MS1	3V34039.D	111	113	120
B8J1141-MSD1	3V34040.D	108	114	118

Surrogate Limits		Lo Limit	Hi Limit
DBF	Dibromofluoromethane	75.2	135
TOL-d8	Toluene-d8	68.6	140
BFB	4-Bromofluorobenzene	66.9	139

F-II

* - Outside of QC Limits

Volatile Organics - GC/MS - Quality Control

Aqua Pro-Tech Laboratories

Batch B8J1111 **Method: SW 846 8260C** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1111-BS1		1,1,1-Trichloroethane	253	ug/kg	200		126	55.7-146		
B8J1111-BS1		1,1,2,2-Tetrachloroethane	168	ug/kg	200		84.2	60.6-129		
B8J1111-BS1		1,1,2-Trichloro-1,2,2 Trifluoroeth	165	ug/kg	200		82.7	40.9-152		
B8J1111-BS1		1,1,2-Trichloroethane	184	ug/kg	200		91.9	79.9-125		
B8J1111-BS1		1,1-Dichloroethane	221	ug/kg	200		110	56.4-138		
B8J1111-BS1		1,1-Dichloroethene	232	ug/kg	200		116	51.9-135		
B8J1111-BS1		1,2,3-Trichlorobenzene	219	ug/kg	200		109	60-138		
B8J1111-BS1		1,2,4-Trichlorobenzene	233	ug/kg	200		116	64.8-139		
B8J1111-BS1		1,2-Dibromo-3-chloropropane	213	ug/kg	200		106	45.6-154		
B8J1111-BS1		1,2-Dibromoethane	194	ug/kg	200		97.2	73.7-130		
B8J1111-BS1		1,2-Dichlorobenzene	211	ug/kg	200		105	55.4-130		
B8J1111-BS1		1,2-Dichloroethane	253	ug/kg	200		127	53.2-151		
B8J1111-BS1		1,2-Dichloropropane	193	ug/kg	200		96.3	75.1-122		
B8J1111-BS1		1,3-Dichlorobenzene	214	ug/kg	200		107	63.4-126		
B8J1111-BS1		1,4-Dichlorobenzene	210	ug/kg	200		105	51.4-129		
B8J1111-BS1		2-Butanone	152	ug/kg	200		76.0	39.6-169		
B8J1111-BS1		2-Hexanone	165	ug/kg	200		82.5	58.6-157		
B8J1111-BS1		4-Methyl-2-pentanone	170	ug/kg	200		84.8	53.6-156		
B8J1111-BS1		Acetone	202	ug/kg	200		101	38.5-171		
B8J1111-BS1		Benzene	182	ug/kg	200		91.0	58.1-135		
B8J1111-BS1		Bromochloromethane	198	ug/kg	200		99.1	51.6-146		
B8J1111-BS1		Bromodichloromethane	165	ug/kg	200		82.7	79.8-121		
B8J1111-BS1		Bromoform	211	ug/kg	200		105	63.4-145		
B8J1111-BS1		Bromomethane	212	ug/kg	200		106	18.7-164		
B8J1111-BS1		Carbon disulfide	141	ug/kg	200		70.4	15.3-152		
B8J1111-BS1		Carbon Tetrachloride	254	ug/kg	200		127	53.4-147		
B8J1111-BS1		Chlorobenzene	205	ug/kg	200		103	66.8-122		
B8J1111-BS1		Chlorodibromomethane	153	ug/kg	200		76.4*	80.2-129		
B8J1111-BS1		Chloroethane	198	ug/kg	200		99.2	37-152		
B8J1111-BS1		Chloroform	234	ug/kg	200		117	51.8-141		
B8J1111-BS1		Chloromethane	175	ug/kg	200		87.4	33.9-139		
B8J1111-BS1		cis-1,2-Dichloroethene	225	ug/kg	200		113	57.5-140		
B8J1111-BS1		cis-1,3-Dichloropropene	211	ug/kg	200		106	80.5-120		
B8J1111-BS1		Cyclohexane	164	ug/kg	200		81.8	52.2-125		
B8J1111-BS1		Dichlorodifluoromethane	240	ug/kg	200		120	15-144		
B8J1111-BS1		EthylBenzene	213	ug/kg	200		107	63.7-119		
B8J1111-BS1		Isopropylbenzene	218	ug/kg	200		109	65.4-120		
B8J1111-BS1		m+p-Xylenes	408	ug/kg	400		102	63.5-126		
B8J1111-BS1		Methyl Acetate	158	ug/kg	200		79.1	31.8-165		
B8J1111-BS1		Methyl tert-Butyl Ether	194	ug/kg	200		97.2	64.7-151		
B8J1111-BS1		Methylcyclohexane	173	ug/kg	200		86.4	70.4-112		
B8J1111-BS1		Methylene Chloride	213	ug/kg	200		106	54.4-150		
B8J1111-BS1		o-Xylene	216	ug/kg	200		108	63.7-125		
B8J1111-BS1		Styrene	208	ug/kg	200		104	70.6-121		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1111 (cont.) **Method: SW 846 8260C** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1111-BS1		tert-Butyl alcohol	1830	ug/kg	2000		91.3	39.7-175		
B8J1111-BS1		Tetrachloroethene	211	ug/kg	200		105	77.9-124		
B8J1111-BS1		Toluene	196	ug/kg	200		98.1	74.8-115		
B8J1111-BS1		trans-1,2-Dichloroethene	225	ug/kg	200		113	51.7-138		
B8J1111-BS1		trans-1,3-Dichloropropene	227	ug/kg	200		114	79.7-125		
B8J1111-BS1		Trichloroethene	212	ug/kg	200		106	77.1-121		
B8J1111-BS1		Trichlorofluoromethane	187	ug/kg	200		93.6	47.2-144		
B8J1111-BS1		Vinyl chloride	215	ug/kg	200		107	44.2-137		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1111 (cont.) **Method: SW 846 8260C** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1111-MS1	8100261-01	1,1,1-Trichloroethane	248	ug/kg	200	0.00	124	60.7-148		
B8J1111-MS1	8100261-01	1,1,2,2-Tetrachloroethane	189	ug/kg	200	0.00	94.3	65.7-121		
B8J1111-MS1	8100261-01	1,1,2-Trichloro-1,2,2 Trifluoroeth	154	ug/kg	200	0.00	76.8	44.9-144		
B8J1111-MS1	8100261-01	1,1,2-Trichloroethane	196	ug/kg	200	0.00	98.1	80-131		
B8J1111-MS1	8100261-01	1,1-Dichloroethane	211	ug/kg	200	0.00	106	64.8-137		
B8J1111-MS1	8100261-01	1,1-Dichloroethene	220	ug/kg	200	0.00	110	56.9-127		
B8J1111-MS1	8100261-01	1,2,3-Trichlorobenzene	211	ug/kg	200	0.00	105	66.9-121		
B8J1111-MS1	8100261-01	1,2,4-Trichlorobenzene	218	ug/kg	200	0.00	109	66.5-124		
B8J1111-MS1	8100261-01	1,2-Dibromo-3-chloropropane	249	ug/kg	200	0.00	124	48.7-149		
B8J1111-MS1	8100261-01	1,2-Dibromoethane	210	ug/kg	200	0.00	105	72.2-138		
B8J1111-MS1	8100261-01	1,2-Dichlorobenzene	210	ug/kg	200	0.00	105	51.2-127		
B8J1111-MS1	8100261-01	1,2-Dichloroethane	266	ug/kg	200	0.00	133	59.7-163		
B8J1111-MS1	8100261-01	1,2-Dichloropropane	190	ug/kg	200	0.00	94.9	80.2-120		
B8J1111-MS1	8100261-01	1,3-Dichlorobenzene	209	ug/kg	200	0.00	104	56.6-125		
B8J1111-MS1	8100261-01	1,4-Dichlorobenzene	198	ug/kg	200	0.00	99.2	47.7-123		
B8J1111-MS1	8100261-01	2-Butanone	175	ug/kg	200	0.00	87.3	39.7-175		
B8J1111-MS1	8100261-01	2-Hexanone	192	ug/kg	200	0.00	95.8	49.2-166		
B8J1111-MS1	8100261-01	4-Methyl-2-pentanone	197	ug/kg	200	0.00	98.7	47.8-159		
B8J1111-MS1	8100261-01	Acetone	229	ug/kg	200	0.00	115	35.1-168		
B8J1111-MS1	8100261-01	Benzene	172	ug/kg	200	0.00	86.1	67-127		
B8J1111-MS1	8100261-01	Bromochloromethane	199	ug/kg	200	0.00	99.4	61.9-147		
B8J1111-MS1	8100261-01	Bromodichloromethane	169	ug/kg	200	0.00	84.7	80.2-125		
B8J1111-MS1	8100261-01	Bromoform	232	ug/kg	200	0.00	116	73.3-129		
B8J1111-MS1	8100261-01	Bromomethane	202	ug/kg	200	0.00	101	24.6-155		
B8J1111-MS1	8100261-01	Carbon disulfide	130	ug/kg	200	0.00	65.2	40.6-129		
B8J1111-MS1	8100261-01	Carbon Tetrachloride	244	ug/kg	200	0.00	122	59.3-142		
B8J1111-MS1	8100261-01	Chlorobenzene	195	ug/kg	200	0.00	97.7	59.3-122		
B8J1111-MS1	8100261-01	Chlorodibromomethane	164	ug/kg	200	0.00	82.1	79.8-129		
B8J1111-MS1	8100261-01	Chloroethane	191	ug/kg	200	0.00	95.4	32.7-154		
B8J1111-MS1	8100261-01	Chloroform	228	ug/kg	200	0.00	114	59.9-142		
B8J1111-MS1	8100261-01	Chloromethane	163	ug/kg	200	0.00	81.4	28.2-127		
B8J1111-MS1	8100261-01	cis-1,2-Dichloroethene	215	ug/kg	200	0.00	108	65.8-138		
B8J1111-MS1	8100261-01	cis-1,3-Dichloropropene	206	ug/kg	200	0.00	103	79-121		
B8J1111-MS1	8100261-01	Cyclohexane	148	ug/kg	200	0.00	74.2	48.8-127		
B8J1111-MS1	8100261-01	Dichlorodifluoromethane	214	ug/kg	200	0.00	107	15-151		
B8J1111-MS1	8100261-01	EthylBenzene	202	ug/kg	200	0.00	101	58-118		
B8J1111-MS1	8100261-01	Isopropylbenzene	206	ug/kg	200	0.00	103	55.7-122		
B8J1111-MS1	8100261-01	m+p-Xylenes	384	ug/kg	400	0.00	96.0	57.3-121		
B8J1111-MS1	8100261-01	Methyl Acetate	179	ug/kg	200	0.00	89.4	31.6-176		
B8J1111-MS1	8100261-01	Methyl tert-Butyl Ether	201	ug/kg	200	0.00	101	64.1-150		
B8J1111-MS1	8100261-01	Methylcyclohexane	163	ug/kg	200	0.00	81.5	52.3-121		
B8J1111-MS1	8100261-01	Methylene Chloride	185	ug/kg	200	0.00	92.5	66.4-152		
B8J1111-MS1	8100261-01	o-Xylene	211	ug/kg	200	0.00	105	57.7-122		
B8J1111-MS1	8100261-01	Styrene	200	ug/kg	200	0.00	100	61.6-125		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1111 (cont.) **Method: SW 846 8260C** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1111-MS1	8100261-01	tert-Butyl alcohol	2090	ug/kg	2000	0.00	104	34-171		
B8J1111-MS1	8100261-01	Tetrachloroethene	201	ug/kg	200	0.00	101	73.7-119		
B8J1111-MS1	8100261-01	Toluene	188	ug/kg	200	0.00	94.2	65.2-125		
B8J1111-MS1	8100261-01	trans-1,2-Dichloroethene	213	ug/kg	200	0.00	107	61.6-129		
B8J1111-MS1	8100261-01	trans-1,3-Dichloropropene	234	ug/kg	200	0.00	117	77-128		
B8J1111-MS1	8100261-01	Trichloroethene	201	ug/kg	200	0.00	100	75.9-117		
B8J1111-MS1	8100261-01	Trichlorofluoromethane	179	ug/kg	200	0.00	89.4	48.1-130		
B8J1111-MS1	8100261-01	Vinyl chloride	190	ug/kg	200	0.00	95.2	34.9-130		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1111 (cont.) **Method: SW 846 8260C** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1111-MSD1	8100261-01	1,1,1-Trichloroethane	243	ug/kg	200	0.00	122	60.7-148	2.07	30
B8J1111-MSD1	8100261-01	1,1,2,2-Tetrachloroethane	205	ug/kg	200	0.00	102	65.7-121	8.20	30
B8J1111-MSD1	8100261-01	1,1,2-Trichloro-1,2,2 Trifluoroeth	152	ug/kg	200	0.00	76.2	44.9-144	0.745	30
B8J1111-MSD1	8100261-01	1,1,2-Trichloroethane	207	ug/kg	200	0.00	103	80-131	5.29	30
B8J1111-MSD1	8100261-01	1,1-Dichloroethane	215	ug/kg	200	0.00	108	64.8-137	1.96	30
B8J1111-MSD1	8100261-01	1,1-Dichloroethene	218	ug/kg	200	0.00	109	56.9-127	1.26	30
B8J1111-MSD1	8100261-01	1,2,3-Trichlorobenzene	218	ug/kg	200	0.00	109	66.9-121	3.31	30
B8J1111-MSD1	8100261-01	1,2,4-Trichlorobenzene	214	ug/kg	200	0.00	107	66.5-124	1.89	30
B8J1111-MSD1	8100261-01	1,2-Dibromo-3-chloropropane	274	ug/kg	200	0.00	137	48.7-149	9.50	30
B8J1111-MSD1	8100261-01	1,2-Dibromoethane	225	ug/kg	200	0.00	113	72.2-138	7.03	30
B8J1111-MSD1	8100261-01	1,2-Dichlorobenzene	210	ug/kg	200	0.00	105	51.2-127	0.0534	30
B8J1111-MSD1	8100261-01	1,2-Dichloroethane	277	ug/kg	200	0.00	139	59.7-163	4.34	30
B8J1111-MSD1	8100261-01	1,2-Dichloropropane	191	ug/kg	200	0.00	95.5	80.2-120	0.579	30
B8J1111-MSD1	8100261-01	1,3-Dichlorobenzene	201	ug/kg	200	0.00	100	56.6-125	3.99	30
B8J1111-MSD1	8100261-01	1,4-Dichlorobenzene	199	ug/kg	200	0.00	99.4	47.7-123	0.245	30
B8J1111-MSD1	8100261-01	2-Butanone	208	ug/kg	200	0.00	104	39.7-175	17.7	30
B8J1111-MSD1	8100261-01	2-Hexanone	225	ug/kg	200	0.00	113	49.2-166	16.1	30
B8J1111-MSD1	8100261-01	4-Methyl-2-pentanone	226	ug/kg	200	0.00	113	47.8-159	13.7	30
B8J1111-MSD1	8100261-01	Acetone	260	ug/kg	200	0.00	130	35.1-168	12.5	30
B8J1111-MSD1	8100261-01	Benzene	176	ug/kg	200	0.00	88.0	67-127	2.25	30
B8J1111-MSD1	8100261-01	Bromochloromethane	209	ug/kg	200	0.00	104	61.9-147	4.83	30
B8J1111-MSD1	8100261-01	Bromodichloromethane	240	ug/kg	200	0.00	120	80.2-125	34.4*	30
B8J1111-MSD1	8100261-01	Bromoform	246	ug/kg	200	0.00	123	73.3-129	6.06	30
B8J1111-MSD1	8100261-01	Bromomethane	190	ug/kg	200	0.00	94.9	24.6-155	6.31	30
B8J1111-MSD1	8100261-01	Carbon disulfide	130	ug/kg	200	0.00	65.2	40.6-129	0.0866	30
B8J1111-MSD1	8100261-01	Carbon Tetrachloride	238	ug/kg	200	0.00	119	59.3-142	2.58	30
B8J1111-MSD1	8100261-01	Chlorobenzene	193	ug/kg	200	0.00	96.4	59.3-122	1.31	30
B8J1111-MSD1	8100261-01	Chlorodibromomethane	242	ug/kg	200	0.00	121	79.8-129	38.3*	30
B8J1111-MSD1	8100261-01	Chloroethane	187	ug/kg	200	0.00	93.4	32.7-154	2.13	30
B8J1111-MSD1	8100261-01	Chloroform	233	ug/kg	200	0.00	117	59.9-142	2.11	30
B8J1111-MSD1	8100261-01	Chloromethane	163	ug/kg	200	0.00	81.3	28.2-127	0.0971	30
B8J1111-MSD1	8100261-01	cis-1,2-Dichloroethene	220	ug/kg	200	0.00	110	65.8-138	2.02	30
B8J1111-MSD1	8100261-01	cis-1,3-Dichloropropene	209	ug/kg	200	0.00	105	79-121	1.49	30
B8J1111-MSD1	8100261-01	Cyclohexane	150	ug/kg	200	0.00	74.9	48.8-127	0.967	30
B8J1111-MSD1	8100261-01	Dichlorodifluoromethane	198	ug/kg	200	0.00	99.0	15-151	7.95	30
B8J1111-MSD1	8100261-01	EthylBenzene	198	ug/kg	200	0.00	99.0	58-118	2.23	30
B8J1111-MSD1	8100261-01	Isopropylbenzene	202	ug/kg	200	0.00	101	55.7-122	2.13	30
B8J1111-MSD1	8100261-01	m+p-Xylenes	379	ug/kg	400	0.00	94.7	57.3-121	1.43	30
B8J1111-MSD1	8100261-01	Methyl Acetate	213	ug/kg	200	0.00	107	31.6-176	17.6	30
B8J1111-MSD1	8100261-01	Methyl tert-Butyl Ether	222	ug/kg	200	0.00	111	64.1-150	9.67	30
B8J1111-MSD1	8100261-01	Methylcyclohexane	156	ug/kg	200	0.00	77.9	52.3-121	4.58	30
B8J1111-MSD1	8100261-01	Methylene Chloride	194	ug/kg	200	0.00	97.1	66.4-152	4.84	30
B8J1111-MSD1	8100261-01	o-Xylene	208	ug/kg	200	0.00	104	57.7-122	1.27	30
B8J1111-MSD1	8100261-01	Styrene	201	ug/kg	200	0.00	100	61.6-125	0.339	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1111 (cont.) **Method: SW 846 8260C** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1111-MSD1	8100261-01	tert-Butyl alcohol	2630	ug/kg	2000	0.00	131	34-171	22.9	30
B8J1111-MSD1	8100261-01	Tetrachloroethene	192	ug/kg	200	0.00	96.1	73.7-119	4.65	30
B8J1111-MSD1	8100261-01	Toluene	185	ug/kg	200	0.00	92.5	65.2-125	1.86	30
B8J1111-MSD1	8100261-01	trans-1,2-Dichloroethene	213	ug/kg	200	0.00	106	61.6-129	0.212	30
B8J1111-MSD1	8100261-01	trans-1,3-Dichloropropene	237	ug/kg	200	0.00	119	77-128	1.54	30
B8J1111-MSD1	8100261-01	Trichloroethene	196	ug/kg	200	0.00	98.1	75.9-117	2.42	30
B8J1111-MSD1	8100261-01	Trichlorofluoromethane	250	ug/kg	200	0.00	125	48.1-130	33.4*	30
B8J1111-MSD1	8100261-01	Vinyl chloride	191	ug/kg	200	0.00	95.6	34.9-130	0.413	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Volatile Organics - GC/MS - Quality Control

Aqua Pro-Tech Laboratories

Batch B8J1141 **Method: SW 846 8260C** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1141-BS1		1,1,1-Trichloroethane	240	ug/kg	200		120	55.7-146		
B8J1141-BS1		1,1,2,2-Tetrachloroethane	194	ug/kg	200		97.0	60.6-129		
B8J1141-BS1		1,1,2-Trichloro-1,2,2 Trifluoroeth	155	ug/kg	200		77.3	40.9-152		
B8J1141-BS1		1,1,2-Trichloroethane	201	ug/kg	200		100	79.9-125		
B8J1141-BS1		1,1-Dichloroethane	211	ug/kg	200		106	56.4-138		
B8J1141-BS1		1,1-Dichloroethene	221	ug/kg	200		111	51.9-135		
B8J1141-BS1		1,2,3-Trichlorobenzene	231	ug/kg	200		116	60-138		
B8J1141-BS1		1,2,4-Trichlorobenzene	238	ug/kg	200		119	64.8-139		
B8J1141-BS1		1,2-Dibromo-3-chloropropane	255	ug/kg	200		127	45.6-154		
B8J1141-BS1		1,2-Dibromoethane	218	ug/kg	200		109	73.7-130		
B8J1141-BS1		1,2-Dichlorobenzene	216	ug/kg	200		108	55.4-130		
B8J1141-BS1		1,2-Dichloroethane	257	ug/kg	200		128	53.2-151		
B8J1141-BS1		1,2-Dichloropropane	193	ug/kg	200		96.7	75.1-122		
B8J1141-BS1		1,3-Dichlorobenzene	211	ug/kg	200		106	63.4-126		
B8J1141-BS1		1,4-Dichlorobenzene	210	ug/kg	200		105	51.4-129		
B8J1141-BS1		2-Butanone	194	ug/kg	200		96.8	39.6-169		
B8J1141-BS1		2-Hexanone	212	ug/kg	200		106	58.6-157		
B8J1141-BS1		4-Methyl-2-pentanone	213	ug/kg	200		107	53.6-156		
B8J1141-BS1		Acetone	238	ug/kg	200		119	38.5-171		
B8J1141-BS1		Benzene	178	ug/kg	200		88.8	58.1-135		
B8J1141-BS1		Bromochloromethane	203	ug/kg	200		102	51.6-146		
B8J1141-BS1		Bromodichloromethane	239	ug/kg	200		120	79.8-121		
B8J1141-BS1		Bromoform	235	ug/kg	200		118	63.4-145		
B8J1141-BS1		Bromomethane	193	ug/kg	200		96.3	18.7-164		
B8J1141-BS1		Carbon disulfide	134	ug/kg	200		66.9	15.3-152		
B8J1141-BS1		Carbon Tetrachloride	237	ug/kg	200		119	53.4-147		
B8J1141-BS1		Chlorobenzene	198	ug/kg	200		99.1	66.8-122		
B8J1141-BS1		Chlorodibromomethane	236	ug/kg	200		118	80.2-129		
B8J1141-BS1		Chloroethane	188	ug/kg	200		94.0	37-152		
B8J1141-BS1		Chloroform	224	ug/kg	200		112	51.8-141		
B8J1141-BS1		Chloromethane	166	ug/kg	200		82.8	33.9-139		
B8J1141-BS1		cis-1,2-Dichloroethene	218	ug/kg	200		109	57.5-140		
B8J1141-BS1		cis-1,3-Dichloropropene	216	ug/kg	200		108	80.5-120		
B8J1141-BS1		Cyclohexane	160	ug/kg	200		79.9	52.2-125		
B8J1141-BS1		Dichlorodifluoromethane	205	ug/kg	200		102	15-144		
B8J1141-BS1		EthylBenzene	205	ug/kg	200		103	63.7-119		
B8J1141-BS1		Isopropylbenzene	209	ug/kg	200		104	65.4-120		
B8J1141-BS1		m+p-Xylenes	392	ug/kg	400		98.0	63.5-126		
B8J1141-BS1		Methyl Acetate	196	ug/kg	200		98.0	31.8-165		
B8J1141-BS1		Methyl tert-Butyl Ether	207	ug/kg	200		103	64.7-151		
B8J1141-BS1		Methylcyclohexane	169	ug/kg	200		84.4	70.4-112		
B8J1141-BS1		Methylene Chloride	204	ug/kg	200		102	54.4-150		
B8J1141-BS1		o-Xylene	211	ug/kg	200		105	63.7-125		
B8J1141-BS1		Styrene	204	ug/kg	200		102	70.6-121		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1141 (cont.) **Method: SW 846 8260C** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1141-BS1		tert-Butyl alcohol	2350	ug/kg	2000		117	39.7-175		
B8J1141-BS1		Tetrachloroethene	207	ug/kg	200		104	77.9-124		
B8J1141-BS1		Toluene	194	ug/kg	200		97.0	74.8-115		
B8J1141-BS1		trans-1,2-Dichloroethene	213	ug/kg	200		106	51.7-138		
B8J1141-BS1		trans-1,3-Dichloropropene	239	ug/kg	200		119	79.7-125		
B8J1141-BS1		Trichloroethene	205	ug/kg	200		103	77.1-121		
B8J1141-BS1		Trichlorofluoromethane	248	ug/kg	200		124	47.2-144		
B8J1141-BS1		Vinyl chloride	199	ug/kg	200		99.5	44.2-137		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1141 (cont.) **Method: SW 846 8260C** **Prepared: 10/12/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1141-MS1	8100452-08	1,1,1-Trichloroethane	240	ug/kg	200	0.00	120	60.7-148		
B8J1141-MS1	8100452-08	1,1,2,2-Tetrachloroethane	215	ug/kg	200	0.00	107	65.7-121		
B8J1141-MS1	8100452-08	1,1,2-Trichloro-1,2,2 Trifluoroeth	154	ug/kg	200	0.00	77.1	44.9-144		
B8J1141-MS1	8100452-08	1,1,2-Trichloroethane	230	ug/kg	200	0.00	115	80-131		
B8J1141-MS1	8100452-08	1,1-Dichloroethane	221	ug/kg	200	0.00	110	64.8-137		
B8J1141-MS1	8100452-08	1,1-Dichloroethene	220	ug/kg	200	0.00	110	56.9-127		
B8J1141-MS1	8100452-08	1,2,3-Trichlorobenzene	215	ug/kg	200	0.00	108	66.9-121		
B8J1141-MS1	8100452-08	1,2,4-Trichlorobenzene	215	ug/kg	200	0.00	107	66.5-124		
B8J1141-MS1	8100452-08	1,2-Dibromo-3-chloropropane	277	ug/kg	200	0.00	139	48.7-149		
B8J1141-MS1	8100452-08	1,2-Dibromoethane	246	ug/kg	200	0.00	123	72.2-138		
B8J1141-MS1	8100452-08	1,2-Dichlorobenzene	210	ug/kg	200	0.00	105	51.2-127		
B8J1141-MS1	8100452-08	1,2-Dichloroethane	275	ug/kg	200	0.00	138	59.7-163		
B8J1141-MS1	8100452-08	1,2-Dichloropropane	211	ug/kg	200	0.00	105	80.2-120		
B8J1141-MS1	8100452-08	1,3-Dichlorobenzene	204	ug/kg	200	0.00	102	56.6-125		
B8J1141-MS1	8100452-08	1,4-Dichlorobenzene	197	ug/kg	200	0.00	98.4	47.7-123		
B8J1141-MS1	8100452-08	2-Butanone	231	ug/kg	200	0.00	116	39.7-175		
B8J1141-MS1	8100452-08	2-Hexanone	259	ug/kg	200	0.00	130	49.2-166		
B8J1141-MS1	8100452-08	4-Methyl-2-pentanone	258	ug/kg	200	0.00	129	47.8-159		
B8J1141-MS1	8100452-08	Acetone	276	ug/kg	200	0.00	138	35.1-168		
B8J1141-MS1	8100452-08	Benzene	186	ug/kg	200	0.00	93.0	67-127		
B8J1141-MS1	8100452-08	Bromochloromethane	223	ug/kg	200	0.00	111	61.9-147		
B8J1141-MS1	8100452-08	Bromodichloromethane	254	ug/kg	200	0.00	127*	80.2-125		
B8J1141-MS1	8100452-08	Bromoform	249	ug/kg	200	0.00	124	73.3-129		
B8J1141-MS1	8100452-08	Bromomethane	169	ug/kg	200	0.00	84.6	24.6-155		
B8J1141-MS1	8100452-08	Carbon disulfide	135	ug/kg	200	0.00	67.6	40.6-129		
B8J1141-MS1	8100452-08	Carbon Tetrachloride	237	ug/kg	200	0.00	118	59.3-142		
B8J1141-MS1	8100452-08	Chlorobenzene	200	ug/kg	200	0.00	99.9	59.3-122		
B8J1141-MS1	8100452-08	Chlorodibromomethane	260	ug/kg	200	0.00	130*	79.8-129		
B8J1141-MS1	8100452-08	Chloroethane	185	ug/kg	200	0.00	92.4	32.7-154		
B8J1141-MS1	8100452-08	Chloroform	233	ug/kg	200	0.00	117	59.9-142		
B8J1141-MS1	8100452-08	Chloromethane	168	ug/kg	200	0.00	84.0	28.2-127		
B8J1141-MS1	8100452-08	cis-1,2-Dichloroethene	222	ug/kg	200	0.00	111	65.8-138		
B8J1141-MS1	8100452-08	cis-1,3-Dichloropropene	230	ug/kg	200	0.00	115	79-121		
B8J1141-MS1	8100452-08	Cyclohexane	161	ug/kg	200	0.00	80.7	48.8-127		
B8J1141-MS1	8100452-08	Dichlorodifluoromethane	188	ug/kg	200	0.00	93.9	15-151		
B8J1141-MS1	8100452-08	EthylBenzene	201	ug/kg	200	0.00	101	58-118		
B8J1141-MS1	8100452-08	Isopropylbenzene	203	ug/kg	200	0.00	101	55.7-122		
B8J1141-MS1	8100452-08	m+p-Xylenes	387	ug/kg	400	0.00	96.8	57.3-121		
B8J1141-MS1	8100452-08	Methyl Acetate	235	ug/kg	200	0.00	117	31.6-176		
B8J1141-MS1	8100452-08	Methyl tert-Butyl Ether	227	ug/kg	200	0.00	113	64.1-150		
B8J1141-MS1	8100452-08	Methylcyclohexane	173	ug/kg	200	0.00	86.7	52.3-121		
B8J1141-MS1	8100452-08	Methylene Chloride	204	ug/kg	200	0.00	102	66.4-152		
B8J1141-MS1	8100452-08	o-Xylene	207	ug/kg	200	0.00	104	57.7-122		
B8J1141-MS1	8100452-08	Styrene	204	ug/kg	200	0.00	102	61.6-125		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1141 (cont.) **Method: SW 846 8260C** **Prepared: 10/12/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1141-MS1	8100452-08	tert-Butyl alcohol	2900	ug/kg	2000	0.00	145	34-171		
B8J1141-MS1	8100452-08	Tetrachloroethene	205	ug/kg	200	0.00	103	73.7-119		
B8J1141-MS1	8100452-08	Toluene	204	ug/kg	200	0.00	102	65.2-125		
B8J1141-MS1	8100452-08	trans-1,2-Dichloroethene	217	ug/kg	200	0.00	109	61.6-129		
B8J1141-MS1	8100452-08	trans-1,3-Dichloropropene	258	ug/kg	200	0.00	129*	77-128		
B8J1141-MS1	8100452-08	Trichloroethene	214	ug/kg	200	0.00	107	75.9-117		
B8J1141-MS1	8100452-08	Trichlorofluoromethane	241	ug/kg	200	0.00	120	48.1-130		
B8J1141-MS1	8100452-08	Vinyl chloride	192	ug/kg	200	0.00	96.2	34.9-130		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1141 (cont.) **Method: SW 846 8260C** **Prepared: 10/12/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1141-MSD1	8100452-08	1,1,1-Trichloroethane	234	ug/kg	200	0.00	117	60.7-148	2.60	30
B8J1141-MSD1	8100452-08	1,1,2,2-Tetrachloroethane	179	ug/kg	200	0.00	89.7	65.7-121	18.0	30
B8J1141-MSD1	8100452-08	1,1,2-Trichloro-1,2,2 Trifluoroeth	151	ug/kg	200	0.00	75.4	44.9-144	2.27	30
B8J1141-MSD1	8100452-08	1,1,2-Trichloroethane	201	ug/kg	200	0.00	101	80-131	13.3	30
B8J1141-MSD1	8100452-08	1,1-Dichloroethane	213	ug/kg	200	0.00	106	64.8-137	3.65	30
B8J1141-MSD1	8100452-08	1,1-Dichloroethene	215	ug/kg	200	0.00	107	56.9-127	2.48	30
B8J1141-MSD1	8100452-08	1,2,3-Trichlorobenzene	200	ug/kg	200	0.00	100	66.9-121	7.04	30
B8J1141-MSD1	8100452-08	1,2,4-Trichlorobenzene	206	ug/kg	200	0.00	103	66.5-124	4.22	30
B8J1141-MSD1	8100452-08	1,2-Dibromo-3-chloropropane	224	ug/kg	200	0.00	112	48.7-149	21.4	30
B8J1141-MSD1	8100452-08	1,2-Dibromoethane	214	ug/kg	200	0.00	107	72.2-138	13.9	30
B8J1141-MSD1	8100452-08	1,2-Dichlorobenzene	201	ug/kg	200	0.00	101	51.2-127	4.30	30
B8J1141-MSD1	8100452-08	1,2-Dichloroethane	248	ug/kg	200	0.00	124	59.7-163	10.3	30
B8J1141-MSD1	8100452-08	1,2-Dichloropropane	200	ug/kg	200	0.00	100	80.2-120	5.26	30
B8J1141-MSD1	8100452-08	1,3-Dichlorobenzene	192	ug/kg	200	0.00	96.1	56.6-125	5.75	30
B8J1141-MSD1	8100452-08	1,4-Dichlorobenzene	193	ug/kg	200	0.00	96.3	47.7-123	2.13	30
B8J1141-MSD1	8100452-08	2-Butanone	180	ug/kg	200	0.00	89.8	39.7-175	25.2	30
B8J1141-MSD1	8100452-08	2-Hexanone	199	ug/kg	200	0.00	99.6	49.2-166	26.1	30
B8J1141-MSD1	8100452-08	4-Methyl-2-pentanone	207	ug/kg	200	0.00	104	47.8-159	21.9	30
B8J1141-MSD1	8100452-08	Acetone	212	ug/kg	200	0.00	106	35.1-168	26.1	30
B8J1141-MSD1	8100452-08	Benzene	180	ug/kg	200	0.00	90.2	67-127	3.06	30
B8J1141-MSD1	8100452-08	Bromochloromethane	205	ug/kg	200	0.00	102	61.9-147	8.29	30
B8J1141-MSD1	8100452-08	Bromodichloromethane	238	ug/kg	200	0.00	119	80.2-125	6.29	30
B8J1141-MSD1	8100452-08	Bromoform	210	ug/kg	200	0.00	105	73.3-129	16.7	30
B8J1141-MSD1	8100452-08	Bromomethane	193	ug/kg	200	0.00	96.3	24.6-155	13.0	30
B8J1141-MSD1	8100452-08	Carbon disulfide	132	ug/kg	200	0.00	66.2	40.6-129	2.20	30
B8J1141-MSD1	8100452-08	Carbon Tetrachloride	229	ug/kg	200	0.00	115	59.3-142	3.20	30
B8J1141-MSD1	8100452-08	Chlorobenzene	192	ug/kg	200	0.00	96.1	59.3-122	3.91	30
B8J1141-MSD1	8100452-08	Chlorodibromomethane	233	ug/kg	200	0.00	117	79.8-129	10.7	30
B8J1141-MSD1	8100452-08	Chloroethane	187	ug/kg	200	0.00	93.3	32.7-154	0.897	30
B8J1141-MSD1	8100452-08	Chloroform	221	ug/kg	200	0.00	111	59.9-142	5.42	30
B8J1141-MSD1	8100452-08	Chloromethane	170	ug/kg	200	0.00	84.8	28.2-127	0.960	30
B8J1141-MSD1	8100452-08	cis-1,2-Dichloroethene	215	ug/kg	200	0.00	107	65.8-138	3.30	30
B8J1141-MSD1	8100452-08	cis-1,3-Dichloropropene	214	ug/kg	200	0.00	107	79-121	7.26	30
B8J1141-MSD1	8100452-08	Cyclohexane	157	ug/kg	200	0.00	78.7	48.8-127	2.51	30
B8J1141-MSD1	8100452-08	Dichlorodifluoromethane	196	ug/kg	200	0.00	98.1	15-151	4.36	30
B8J1141-MSD1	8100452-08	EthylBenzene	196	ug/kg	200	0.00	97.8	58-118	2.87	30
B8J1141-MSD1	8100452-08	Isopropylbenzene	197	ug/kg	200	0.00	98.7	55.7-122	2.75	30
B8J1141-MSD1	8100452-08	m+p-Xylenes	375	ug/kg	400	0.00	93.9	57.3-121	3.04	30
B8J1141-MSD1	8100452-08	Methyl Acetate	184	ug/kg	200	0.00	91.9	31.6-176	24.3	30
B8J1141-MSD1	8100452-08	Methyl tert-Butyl Ether	201	ug/kg	200	0.00	101	64.1-150	12.0	30
B8J1141-MSD1	8100452-08	Methylcyclohexane	173	ug/kg	200	0.00	86.3	52.3-121	0.469	30
B8J1141-MSD1	8100452-08	Methylene Chloride	193	ug/kg	200	0.00	96.6	66.4-152	5.46	30
B8J1141-MSD1	8100452-08	o-Xylene	202	ug/kg	200	0.00	101	57.7-122	2.61	30
B8J1141-MSD1	8100452-08	Styrene	194	ug/kg	200	0.00	96.8	61.6-125	5.28	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1141 (cont.) **Method: SW 846 8260C** **Prepared: 10/12/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1141-MSD1	8100452-08	tert-Butyl alcohol	2130	ug/kg	2000	0.00	106	34-171	30.5*	30
B8J1141-MSD1	8100452-08	Tetrachloroethene	201	ug/kg	200	0.00	101	73.7-119	2.14	30
B8J1141-MSD1	8100452-08	Toluene	199	ug/kg	200	0.00	99.6	65.2-125	2.13	30
B8J1141-MSD1	8100452-08	trans-1,2-Dichloroethene	211	ug/kg	200	0.00	105	61.6-129	3.17	30
B8J1141-MSD1	8100452-08	trans-1,3-Dichloropropene	234	ug/kg	200	0.00	117	77-128	9.66	30
B8J1141-MSD1	8100452-08	Trichloroethene	208	ug/kg	200	0.00	104	75.9-117	2.59	30
B8J1141-MSD1	8100452-08	Trichlorofluoromethane	243	ug/kg	200	0.00	121	48.1-130	0.692	30
B8J1141-MSD1	8100452-08	Vinyl chloride	195	ug/kg	200	0.00	97.5	34.9-130	1.30	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

VOLATILE METHOD BLANK SUMMARY

Batch ID: **B8J1111** **Instrument:** GCMS-3

Sequence ID: S8J1704

Lab Number	Sample ID	Analyzed	File ID
B8J1111-BLK1	BLK1	10/10/2018 15:02	3V33994.D
B8J1111-BS1	BS1	10/10/2018 14:03	3V33992.D
B8J1111-MS1	MS1	10/11/2018 0:28	3V34013.D
B8J1111-MSD1	MSD1	10/11/2018 0:57	3V34014.D
8100452-01	NTP-1A	10/10/2018 18:59	3V34002.D
8100452-02	NTP-2A	10/10/2018 19:28	3V34003.D
8100452-05	NTP-4B	10/10/2018 19:58	3V34004.D
8100452-06	NTP-6	10/10/2018 20:28	3V34005.D
8100452-07	NTP-7	10/10/2018 21:02	3V34006.D
8100452-11	STP-4A	10/10/2018 22:01	3V34008.D
8100452-12	STP-4B	10/10/2018 22:30	3V34009.D
8100452-14	STP-7	10/10/2018 22:59	3V34010.D

Batch ID: **B8J1141** **Instrument:** GCMS-3

Sequence ID: S8J1706

Lab Number	Sample ID	Analyzed	File ID
B8J1141-BLK1	BLK1	10/11/2018 13:05	3V34019.D
B8J1141-BS1	BS1	10/11/2018 12:35	3V34018.D
B8J1141-MS1	MS1	10/12/2018 1:37	3V34039.D
B8J1141-MSD1	MSD1	10/12/2018 2:06	3V34040.D
8100452-08	STP-1B	10/11/2018 13:34	3V34020.D

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-3	Project:	Ridgewood
Sequence:	S8G2901		

Lab Sample ID:	**S8G2901-TUN1**	Injection Date:	07/17/2018	Injection Time:	11:46
Lab File ID:	3V32663.D				

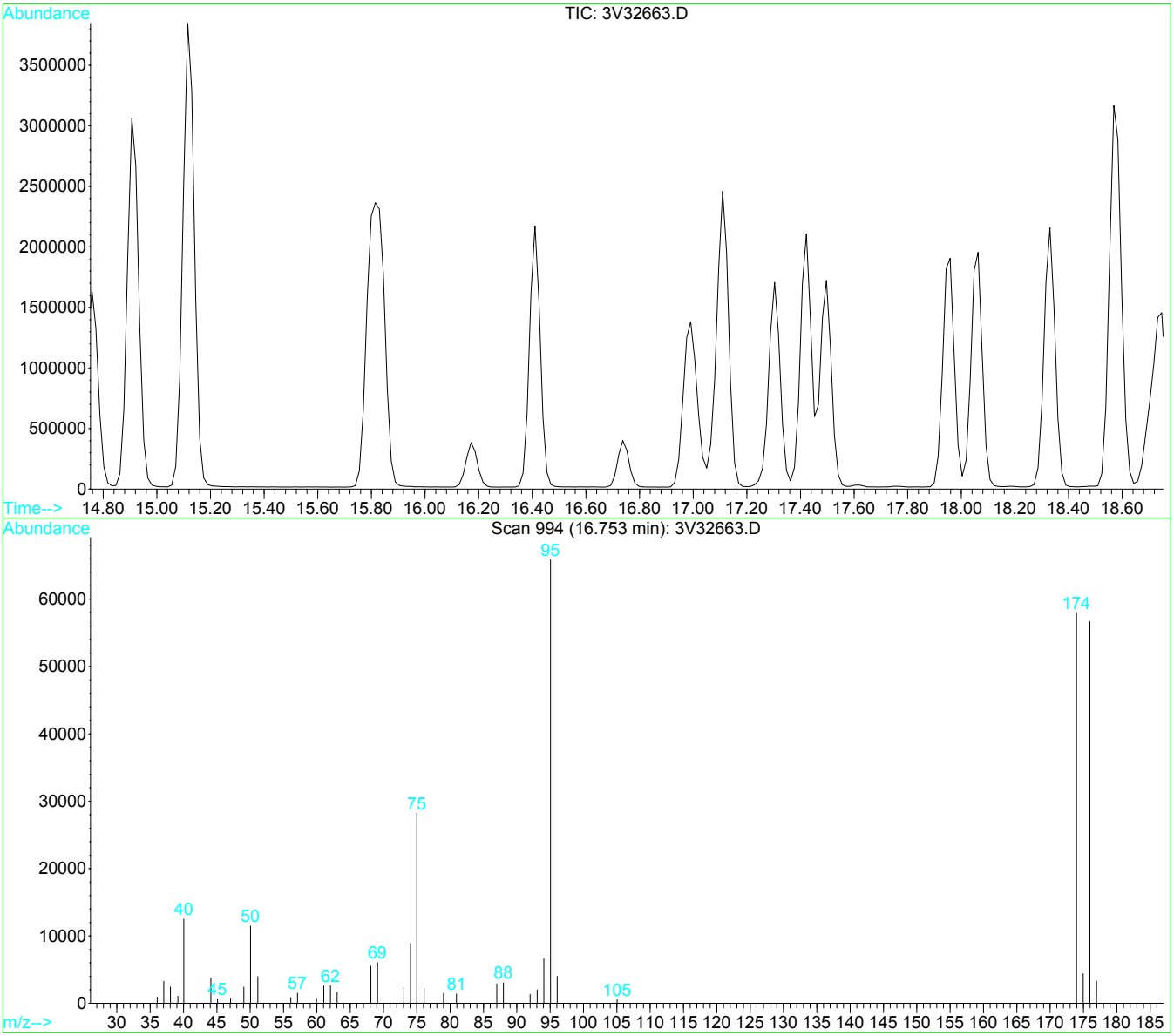
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	17.4	PASS
75	30 - 60% of 95	42.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.08	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	88.1	PASS
175	5 - 9% of 174	7.58	PASS
176	95 - 101% of 174	97.7	PASS
177	5 - 9% of 176	5.82	PASS

Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Cal Standard	S8G2901-CAL1	3V32673.D	07/17/2018	17:55.00
Cal Standard	S8G2901-CAL2	3V32674.D	07/17/2018	18:24.00
Cal Standard	S8G2901-CAL3	3V32675.D	07/17/2018	18:53.00
Cal Standard	S8G2901-CAL4	3V32676.D	07/17/2018	19:21.00
Cal Standard	S8G2901-CAL5	3V32677.D	07/17/2018	19:50.00
Cal Standard	S8G2901-CAL6	3V32678.D	07/17/2018	20:18.00
Cal Standard	S8G2901-CAL7	3V32679.D	07/17/2018	20:47.00

F-V

Data File : G:\HPCHEM\3\DATA\07172018\3V32663.D Vial: 50
Acq On : 17 Jul 2018 11:46 Operator: omd
Sample : SEQ-TUN Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C



Spectrum Information: Scan 994

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.4	11466	PASS
75	95	30	60	42.9	28256	PASS
95	95	100	100	100.0	65848	PASS
96	95	5	9	6.1	4006	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	88.1	58000	PASS
175	174	5	9	7.6	4395	PASS
176	174	95	101	97.7	56664	PASS
177	176	5	9	5.8	3296	PASS

3V32663.D 0717WC3.M Thu Aug 16 14:04:49 2018 SS

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-3	Project:	Ridgewood
Sequence:	S8J1704		

Lab Sample ID:	**S8J1704-TUN1**	Injection Date:	10/10/2018	Injection Time:	12:59
Lab File ID:	3V33990.D				

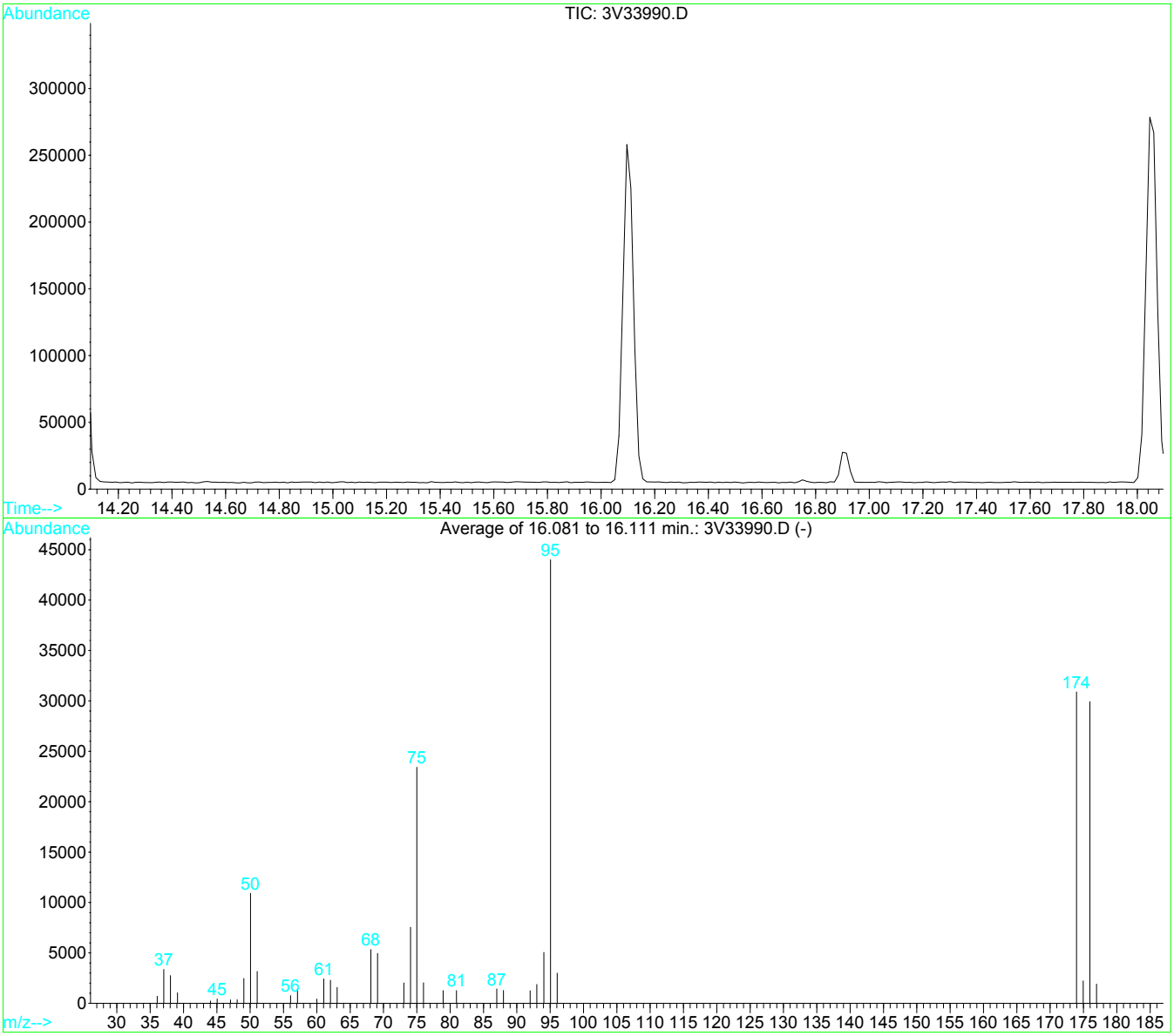
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	24.8	PASS
75	30 - 60% of 95	53.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.8	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	70.2	PASS
175	5 - 9% of 174	7.22	PASS
176	95 - 101% of 174	96.9	PASS
177	5 - 9% of 176	6.38	PASS

Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Calibration Check	S8J1704-CCV1	3V33991.D	10/10/2018	13:33.00
LCS	B8J1111-BS1	3V33992.D	10/10/2018	14:03.00
Blank	B8J1111-BLK1	3V33994.D	10/10/2018	15:02.00
NTP-1A	8100452-01	3V34002.D	10/10/2018	18:59.00
NTP-2A	8100452-02	3V34003.D	10/10/2018	19:28.00
NTP-4B	8100452-05	3V34004.D	10/10/2018	19:58.00
NTP-6	8100452-06	3V34005.D	10/10/2018	20:28.00
NTP-7	8100452-07	3V34006.D	10/10/2018	21:02.00
STP-4A	8100452-11	3V34008.D	10/10/2018	22:01.00
STP-4B	8100452-12	3V34009.D	10/10/2018	22:30.00
STP-7	8100452-14	3V34010.D	10/10/2018	22:59.00
Matrix Spike	B8J1111-MS1	3V34013.D	10/11/2018	0:28.00
Matrix Spike Dup	B8J1111-MSD1	3V34014.D	10/11/2018	0:57.00

F-V

Data File : G:\HPCHEM\3\DATA\10102018\3V33990.D Vial: 41
Acq On : 10 Oct 2018 12:59 Operator: omd
Sample : SEQ-TUN Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C



Spectrum Information: Average of 16.081 to 16.111 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.8	10911	PASS
75	95	30	60	53.2	23416	PASS
95	95	100	100	100.0	44005	PASS
96	95	5	9	6.8	2994	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	70.2	30888	PASS
175	174	5	9	7.2	2231	PASS
176	174	95	101	96.9	29928	PASS
177	176	5	9	6.4	1909	PASS

3V33990.D 0717WC3.M Wed Oct 17 12:05:02 2018 SS

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-3	Project:	Ridgewood
Sequence:	S8J1706		

Lab Sample ID:	**S8J1706-TUN1**	Injection Date:	10/11/2018	Injection Time:	11:36
Lab File ID:	3V34016.D				

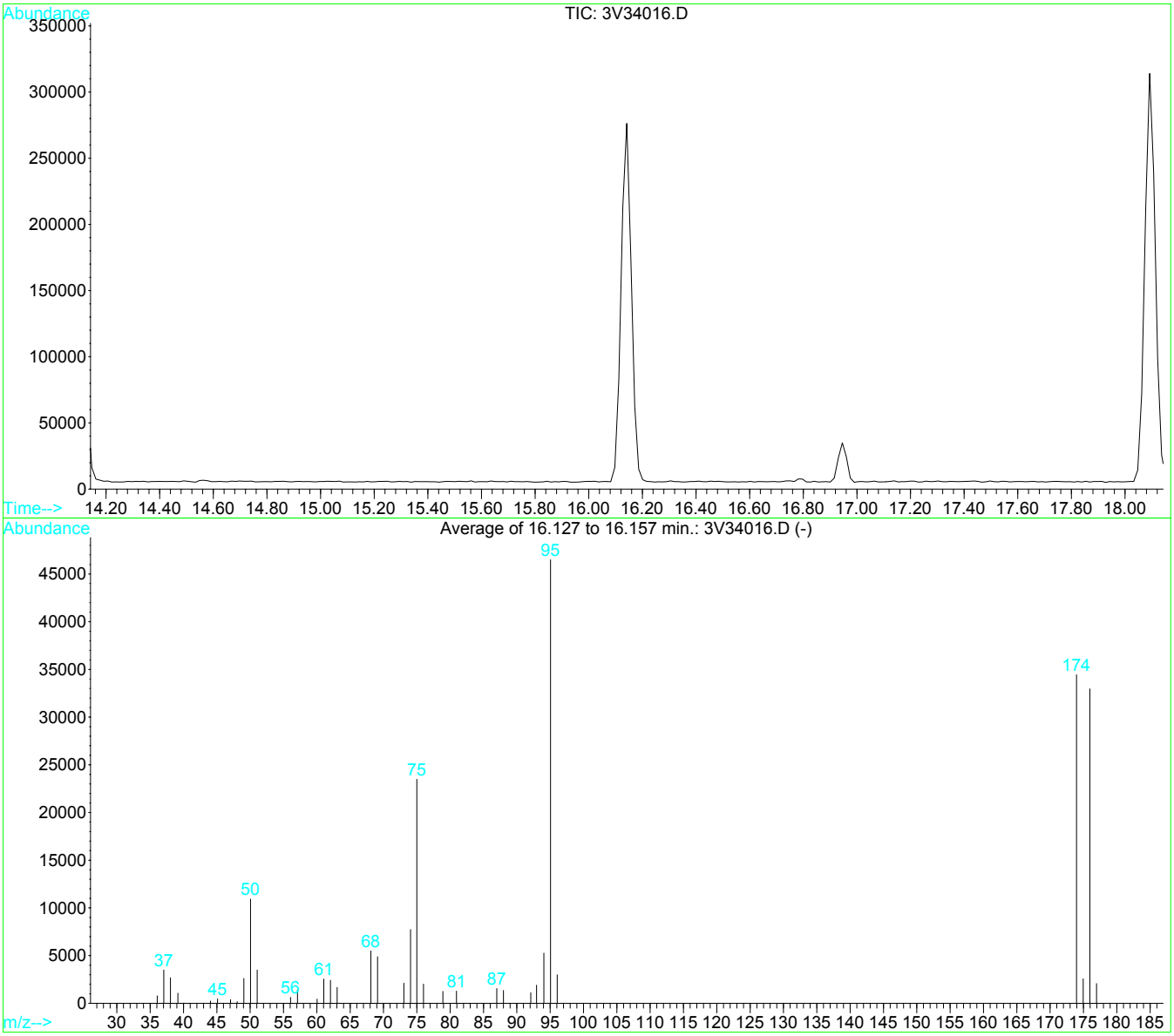
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	23.5	PASS
75	30 - 60% of 95	50.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.43	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	74.1	PASS
175	5 - 9% of 174	7.47	PASS
176	95 - 101% of 174	95.7	PASS
177	5 - 9% of 176	6.31	PASS

Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Calibration Check	S8J1706-CCV1	3V34017.D	10/11/2018	12:06.00
LCS	B8J1141-BS1	3V34018.D	10/11/2018	12:35.00
Blank	B8J1141-BLK1	3V34019.D	10/11/2018	13:05.00
STP-1B	8100452-08	3V34020.D	10/11/2018	13:34.00
Matrix Spike	B8J1141-MS1	3V34039.D	10/12/2018	1:37.00
Matrix Spike Dup	B8J1141-MSD1	3V34040.D	10/12/2018	2:06.00

F-V

Data File : G:\HPCHEM\3\DATA\10112018\3V34016.D Vial: 71
Acq On : 11 Oct 2018 11:36 Operator: omd
Sample : SEQ-TUN Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C



AutoFind: Scans 979, 980, 981; Background Corrected with Scan 974

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	10925	PASS
75	95	30	60	50.5	23488	PASS
95	95	100	100	100.0	46496	PASS
96	95	5	9	6.4	2988	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.1	34440	PASS
175	174	5	9	7.5	2571	PASS
176	174	95	101	95.7	32968	PASS
177	176	5	9	6.3	2079	PASS

3V34016.D 0717WC3.M Wed Oct 17 12:24:55 2018 SS

Response Factor Report GCMS-3

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Sun Jul 29 14:39:15 2018
Response via : Initial Calibration

Calibration Files
2 =3V32673.D 5 =3V32674.D 40 =3V32675.D
80 =3V32676.D 200 =3V32678.D 400 =3V32679.D

		Compound	2	5	40	80	200	400	Avg	%RSD
1)	I	Pentafluorobenzene	----------	ISTD	----------					
2)		Dichlorodifluoromet	0.237	0.311	0.343	0.326	0.299	0.297	0.301	11.10
3)	P	Chloromethane	0.441	0.436	0.469	0.458	0.449	0.447	0.446	3.29
4)		Acrolein			0.025	0.025	0.035	0.024	0.027	17.67
5)	C	Vinyl Chloride	0.325	0.451	0.468	0.467	0.457	0.460	0.437	11.69
6)		Bromomethane	0.279	0.290	0.302	0.298	0.232	0.200	0.269	14.28
7)		Chloroethane	0.229	0.306	0.339	0.351	0.311	0.291	0.307	13.03
8)		Trichlorofluorometh	0.519	0.589	0.599	0.595	0.583	0.586	0.576	4.86
9)		1,1,2-Trichloro-1,2	0.441	0.467	0.490	0.489	0.487	0.490	0.475	4.05
10)		Acetone		0.113	0.142	0.130	0.168	0.112	0.131	16.20
11)	C	1,1-Dichloroethene	0.638	0.677	0.706	0.704	0.703	0.706	0.686	3.82
12)		tert-Butyl Alcohol	0.031	0.026	0.041	0.037	0.051	0.033	0.036	22.13
13)		Methyl Acetate	0.242	0.257	0.341	0.310	0.398	0.274	0.302	17.84
14)		Methylene Chloride	2.466	1.205	0.545	0.522	0.482	0.455	0.877	85.53
15)		Carbon Disulfide	1.630	1.752	1.774	1.771	1.772	1.807	1.740	3.67
16)		Acrylonitrile		0.053	0.140	0.142	0.182	0.125	0.129	32.84
17)		Methyl tert-Butyl E	0.976	0.988	1.147	1.115	1.236	1.068	1.084	8.40
18)		trans-1,2-Dichloroe	0.526	0.617	0.676	0.677	0.663	0.680	0.639	8.66
19)	P	1,1-Dichloroethane	0.697	0.726	0.809	0.810	0.821	0.815	0.779	6.30
20)		Vinyl Acetate							0.000	-1.00
21)		2-Butanone		0.152	0.228	0.208	0.267	0.176	0.204	19.76
22)		2,2-Dichloropropane	0.464	0.566	0.609	0.611	0.614	0.620	0.580	9.48
23)		cis-1,2-Dichloroeth	0.580	0.695	0.766	0.770	0.781	0.775	0.728	9.92
24)	C	Chloroform	0.702	0.723	0.784	0.771	0.772	0.761	0.747	4.28
25)		Bromochloromethane	0.316	0.360	0.411	0.405	0.416	0.389	0.383	9.21
26)	S	Dibromofluoromethan	0.602	0.604	0.613	0.606	0.605	0.605	0.608	1.11
27)		Cyclohexane	0.678	0.805	0.810	0.814	0.805	0.820	0.786	6.39
28)		1,1,1-Trichloroetha	0.486	0.587	0.618	0.621	0.623	0.621	0.592	8.32
29)		1,1-Dichloropropene	0.453	0.590	0.610	0.599	0.607	0.608	0.577	9.78
30)		Carbon Tetrachlorid	0.500	0.518	0.551	0.546	0.546	0.555	0.534	3.95
31)		1,2-Dichloroethane	0.454	0.485	0.557	0.545	0.612	0.546	0.531	9.65
32)		Benzene	1.543	1.653	1.751	1.711	1.737	1.786	1.686	5.07
33)	I	1,4-Difluorobenzene	----------	ISTD	----------					
34)		Trichloroethene	0.203	0.213	0.238	0.243	0.240	0.242	0.230	6.91
35)		Methylcyclohexane	0.358	0.395	0.413	0.413	0.415	0.422	0.401	5.43
36)	C	1,2-Dichloropropane	0.185	0.228	0.237	0.241	0.248	0.240	0.230	9.15
37)		Bromodichloromethan	0.288	0.302	0.318	0.320	0.326	0.314	0.309	4.34
38)		p-Dioxane							0.000	-1.00
39)		Dibromomethane		0.109	0.133	0.132	0.145	0.125	0.128	9.30
40)		2-Chloroethylvinyl		0.085	0.126	0.123	0.144	0.116	0.118	16.38
41)		4-Methyl-2-Pentanon	0.206	0.179	0.248	0.230	0.287	0.204	0.224	15.67
42)		cis-1,3-Dichloropro	0.321	0.354	0.384	0.387	0.406	0.390	0.372	7.66
43)	S	Toluene-d8	1.117	1.137	1.109	1.126	1.127	1.136	1.125	0.90
44)	C	Toluene	0.857	0.910	0.947	0.955	0.960	0.943	0.923	4.21
45)		trans-1,3-Dichlorop	0.293	0.284	0.346	0.336	0.367	0.333	0.325	9.01
46)		1,1,2-Trichloroetha	0.165	0.162	0.190	0.181	0.202	0.171	0.178	8.13
47)		2-Hexanone	0.131	0.128	0.185	0.168	0.215	0.149	0.162	19.06
48)		1,3-Dichloropropane	0.319	0.282	0.330	0.326	0.355	0.312	0.319	6.97
49)		Tetrachloroethene	0.202	0.224	0.240	0.239	0.237	0.242	0.229	6.33
50)		Dibromochloromethan	0.179	0.202	0.229	0.228	0.244	0.219	0.217	9.68
51)		1,2-Dibromoethane	0.156	0.157	0.189	0.183	0.209	0.170	0.177	10.58
52)	I	Chlorobenzene-d5	----------	ISTD	----------					
53)	C	Chlorobenzene	1.141	1.083	1.158	1.113	1.162	1.126	1.120	3.56
54)		1,1,1,2-Tetrachloro	0.351	0.373	0.415	0.402	0.410	0.382	0.387	5.98
55)	C	Ethylbenzene	1.865	1.981	2.071	2.010	2.056	1.975	1.980	3.84
56)		m+p-Xylenes	0.680	0.725	0.773	0.742	0.753	0.714	0.726	4.50
57)		o-Xylene	1.433	1.501	1.622	1.553	1.595	1.527	1.531	4.26

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report GCMS-3

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Sun Jul 29 14:39:15 2018
Response via : Initial Calibration

Calibration Files
2 =3V32673.D 5 =3V32674.D 40 =3V32675.D
80 =3V32676.D 200 =3V32678.D 400 =3V32679.D

		Compound	2	5	40	80	200	400	Avg	%RSD
58)		Styrene	1.089	1.177	1.260	1.242	1.263	1.199	1.200	5.16
59)		Isopropylbenzene	1.738	1.868	1.969	1.905	1.979	1.917	1.883	4.63
60)	P	Bromoform	0.259	0.224	0.285	0.264	0.307	0.244	0.262	10.49
61)	P	1,1,2,2-Tetrachloro	0.432	0.425	0.521	0.457	0.552	0.420	0.463	11.19
62)	S	4-Bromofluorobenzen	0.852	0.853	0.857	0.821	0.860	0.823	0.842	1.98
63)		1,2,3-Trichloroprop		0.103	0.139	0.123	0.151	0.108	0.123	15.22
64)		n-Propylbenzene	2.345	2.462	2.495	2.440	2.521	2.409	2.431	2.84
65)		Bromobenzene	0.756	0.704	0.799	0.763	0.823	0.749	0.761	5.30
66)		2-Chlorotoluene	1.302	1.306	1.417	1.354	1.407	1.351	1.349	3.61
67)		4-Chlorotoluene	1.402	1.529	1.659	1.603	1.644	1.561	1.560	5.61
68)		1,3,5-Trimethylbenz	1.423	1.481	1.598	1.543	1.583	1.545	1.524	4.03
69)		tert-Butylbenzene	1.201	1.301	1.366	1.313	1.344	1.284	1.291	4.63
70)		1,2,4-Trimethylbenz	1.362	1.481	1.563	1.541	1.584	1.527	1.504	4.98
71)		sec-Butylbenzene	2.017	2.085	2.248	2.163	2.215	2.122	2.130	3.92
72)		4-Isopropyltoluene	1.534	1.624	1.795	1.769	1.792	1.632	1.687	5.95
73)		1,3-Dichlorobenzene	0.822	0.848	0.915	0.875	0.884	0.799	0.852	4.83
74)	I	1,4-Dichlorobenzene-d	----------	----------	ISTD	----------	----------	----------		
75)		1,4-Dichlorobenzene	0.928	0.909	0.986	0.979	1.007	0.974	0.960	3.73
76)		n-Butylbenzene	1.668	1.807	1.995	1.964	1.951	1.958	1.894	6.14
77)		1,2-Dichlorobenzene	0.741	0.816	0.876	0.863	0.912	0.866	0.845	6.48
78)		1,2-Dibromo-3-chlor		0.046	0.088	0.081	0.102	0.072	0.077	24.41
79)		1,2,4-Trichlorobenz	0.428	0.425	0.549	0.573	0.606	0.583	0.531	13.89
80)		Hexachlorobutadiene	0.322	0.339	0.317	0.322	0.326	0.336	0.324	3.27
81)		Naphthalene	1.367	0.900	1.152	1.169	1.412	1.150	1.186	14.20
82)		1,2,3-Trichlorobenz	0.450	0.395	0.483	0.488	0.546	0.509	0.479	9.88
83)		Indan							0.000	-1.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

Compound List Report GCMS-3

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Sun Jul 29 14:39:15 2018
Response via : Initial Calibration
Total Cpnds : 83

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Pentafluorobenzene	168	8.19	1.000	A	2	A	B
2		Dichlorodifluoromethane	85	2.07	0.253	A	1	A	B
3	P	Chloromethane	50	2.30	0.280	A	1	A	B
4		Acrolein	56	3.76	0.459	A	1	A	B
5	C	Vinyl Chloride	62	2.40	0.293	A	1	A	B
6		Bromomethane	94	2.77	0.339	A	2	A	B
7		Chloroethane	64	2.89	0.353	A	1	A	B
8		Trichlorofluoromethane	101	3.20	0.390	A	1	A	B
9		1,1,2-Trichloro-1,2,2 Trifluor	101	3.85	0.470	A	2	A	B
10		Acetone	43	3.97	0.485	A	1	A	B
11	C	1,1-Dichloroethene	61	3.88	0.474	A	2	A	B
12		tert-Butyl Alcohol	59	4.76	0.581	Q	2	A	B
13		Methyl Acetate	43	4.42	0.539	A	1	A	B
14		Methylene Chloride	84	4.64	0.567	Q	2	A	B
15		Carbon Disulfide	76	4.21	0.514	A	1	A	B
16		Acrylonitrile	53	5.07	0.619	Q	2	A	B
17		Methyl tert-Butyl Ether	73	5.01	0.612	A	1	A	B
18		trans-1,2-Dichloroethene	61	5.06	0.618	A	2	A	B
19	P	1,1-Dichloroethane	63	5.89	0.720	A	2	A	B
20		Vinyl Acetate	43	5.94	0.725	A	1	A	B
21		2-Butanone	43	7.10	0.867	A	1	A	B
22		2,2-Dichloropropane	77	7.06	0.862	A	1	A	B
23		cis-1,2-Dichloroethene	61	7.10	0.867	A	1	A	B
24	C	Chloroform	83	7.74	0.945	A	1	A	B
25		Bromochloromethane	49	7.58	0.925	A	2	A	B
26	S	Dibromofluoromethane	113	8.06	0.984	A	2	A	B
27		Cyclohexane	56	8.07	0.985	A	2	A	B
28		1,1,1-Trichloroethane	97	8.04	0.982	A	2	A	B
29		1,1-Dichloropropene	75	8.37	1.022	A	2	A	B
30		Carbon Tetrachloride	117	8.33	1.016	A	2	A	B
31		1,2-Dichloroethane	62	8.88	1.084	A	1	A	B
32		Benzene	78	8.73	1.066	A	1	A	B
33	I	1,4-Difluorobenzene	114	9.53	1.000	A	2	A	B
34		Trichloroethene	130	9.98	1.047	A	2	A	B
35		Methylcyclohexane	83	10.25	1.075	A	2	A	B
36	C	1,2-Dichloropropane	63	10.41	1.092	A	2	A	B
37		Bromodichloromethane	83	10.93	1.147	A	1	A	B
38		p-Dioxane	88	8.72	0.914	A	2	A	B
39		Dibromomethane	174	10.63	1.115	A	2	A	B
40		2-Chloroethylvinyl Ether	63	11.49	1.206	A	1	A	B
41		4-Methyl-2-Pentanone	43	11.99	1.257	A	2	A	B
42		cis-1,3-Dichloropropene	75	11.75	1.232	A	2	A	B
43	S	Toluene-d8	98	12.16	1.276	A	2	A	B
44	C	Toluene	91	12.28	1.288	A	1	A	B
45		trans-1,3-Dichloropropene	75	12.77	1.340	A	2	A	B
46		1,1,2-Trichloroethane	97	13.09	1.373	A	1	A	B
47		2-Hexanone	43	13.47	1.413	A	2	A	B
48		1,3-Dichloropropane	76	13.38	1.404	A	1	A	B
49		Tetrachloroethene	166	13.25	1.390	A	2	A	B
50		Dibromochloromethane	129	13.74	1.441	A	1	A	B
51		1,2-Dibromoethane	107	13.93	1.462	A	1	A	B
52	I	Chlorobenzene-d5	82	14.70	1.000	A	2	A	B
53	C	Chlorobenzene	112	14.74	1.003	A	1	A	B
54		1,1,1,2-Tetrachloroethane	131	14.91	1.014	A	2	A	B
55	C	Ethylbenzene	91	14.89	1.013	A	1	A	B
56		m+p-Xylenes	106	15.11	1.028	A	2	A	B
57		o-Xylene	91	15.80	1.075	A	2	A	B
58		Styrene	104	15.83	1.077	A	2	A	B
59		Isopropylbenzene	105	16.40	1.116	A	1	A	B
60	P	Bromoform	173	16.17	1.100	A	2	A	B
61	P	1,1,2,2-Tetrachloroethane	83	17.01	1.157	A	1	A	B
62	S	4-Bromofluorobenzene	95	16.74	1.139	A	2	A	B
63		1,2,3-Trichloropropane	110	17.09	1.162	A	1	A	B
64		n-Propylbenzene	91	17.12	1.164	A	2	A	B

65	Bromobenzene	77	16.98	1.155	A	2	A	B
66	2-Chlorotoluene	91	17.31	1.178	A	2	A	B
67	4-Chlorotoluene	91	17.50	1.191	A	2	A	B
68	1,3,5-Trimethylbenzene	105	17.43	1.186	A	1	A	B
69	tert-Butylbenzene	119	17.96	1.222	A	2	A	B
70	1,2,4-Trimethylbenzene	105	18.08	1.230	A	1	A	B
71	sec-Butylbenzene	105	18.35	1.248	A	2	A	B
72	4-Isopropyltoluene	119	18.60	1.265	A	2	A	B
73	1,3-Dichlorobenzene	146	18.60	1.265	A	2	A	B
74 I	1,4-Dichlorobenzene-d4	152	18.69	1.000	A	2	A	B
75	1,4-Dichlorobenzene	146	18.73	1.002	A	2	A	B
76	n-Butylbenzene	91	19.25	1.030	A	2	A	B
77	1,2-Dichlorobenzene	146	19.37	1.036	A	2	A	B
78	1,2-Dibromo-3-chloropropane	75	20.69	1.107	QO	2	A	B
79	1,2,4-Trichlorobenzene	180	22.08	1.181	A	2	A	B
80	Hexachlorobutadiene	225	22.30	1.193	A	2	A	B
81	Naphthalene	128	22.48	1.203	A	2	A	B
82	1,2,3-Trichlorobenzene	180	22.91	1.226	A	2	A	B
83	Indan	117	18.05	0.966	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

0717WC3.M Mon Jul 30 08:56:06 2018 SS

CALIBRATION VERIFICATION SUMMARY

SW 846 8260C

CCV ID: S8J1704-CCV1 **Analyzed:** 10/10/18 13:33

Analyte	Response Factor	Expected Result	Result		% Drift	Limit(s)
1,1,1-Trichloroethane	0.7373984	200.00	249.17	*	25	20
1,1,2,2-Tetrachloroethane	0.4323567	200.00	186.64		7	0.3 (SPCC)
1,1,2-Trichloro-1,2,2 Trifluoroethane	0.3885111	200.00	163.56		18	20
1,1,2-Trichloroethane	0.1703746	200.00	191.60		4	20
1,1-Dichloroethane	0.8496664	200.00	218.21		9	0.1 (SPCC)
1,1-Dichloroethene	0.7945612	200.00	231.64		16	20 (CCC)
1,2,3-Trichlorobenzene	0.4828518	200.00	221.99		11	20
1,2,4-Trichlorobenzene	0.6295863	200.00	237.27		19	20
1,2,4-Trimethylbenzene	1.864631	200.00	225.19		13	20
1,2-Dibromo-3-chloropropane	9.506023E-02	200.00	236.88		18	20
1,2-Dibromoethane	0.1826416	200.00	206.38		3	20
1,2-Dichlorobenzene	0.9081894	200.00	214.98		7	20
1,2-Dichloroethane	0.6933126	200.00	261.14	*	31	20
1,2-Dichloropropane	0.220676	200.00	192.26		4	20 (CCC)
1,3-Dichlorobenzene	0.919692	200.00	215.86		8	20
1,4-Dichlorobenzene	1.006167	200.00	209.68		5	20
2-Butanone	0.1800639	200.00	176.21		12	20
2-Hexanone	0.1525543	200.00	188.49		6	20
4-Methyl-2-pentanone	0.2146098	200.00	191.62		4	20
Acetone	0.1557066	200.00	237.49		19	20
Benzene	1.516194	200.00	179.91		10	20
Bromochloromethane	0.387115	200.00	202.36		1	20
Bromodichloromethane	0.3697722	200.00	166.53		17	20
Bromoform	0.2964029	200.00	226.45		13	0.1 (SPCC)
Bromomethane	0.2743366	200.00	204.02		2	20
Carbon disulfide	1.218475	200.00	140.08	*	30	20
Carbon Tetrachloride	0.6674893	200.00	250.10	*	25	20
Chlorobenzene	1.142052	200.00	204.01		2	0.3 (SPCC)
Chlorodibromomethane	0.2495352	200.00	160.58		20	20
Chloroethane	0.3086909	200.00	201.40		1	20
Chloroform	0.8609991	200.00	230.37		15	20 (CCC)
Chloromethane	0.3907103	200.00	175.04		12	0.1 (SPCC)
cis-1,2-Dichloroethene	0.8156015	200.00	224.02		12	20
cis-1,3-Dichloropropene	0.3982	200.00	213.87		7	20
Cyclohexane	0.6395256	200.00	162.71		19	20
Dichlorodifluoromethane	0.351371	200.00	233.67		17	20
EthylBenzene	2.102067	200.00	212.34		6	20 (CCC)
Isopropylbenzene	2.044636	200.00	217.18		9	20
m+p-Xylenes	0.729369	400.00	401.78		0	20
Methyl Acetate	0.270541	200.00	179.27		10	20
Methyl tert-Butyl Ether	1.097602	200.00	202.42		1	20
Methylcyclohexane	0.3421712	200.00	170.67		15	20
Methylene Chloride	0.501129	200.00	212.62		6	20
o-Xylene	1.663676	200.00	217.35		9	20
Styrene	1.250545	200.00	208.39		4	20
tert-Butyl alcohol	4.009553E-02	2,000.00	2,094.81		5	20
Tetrachloroethene	0.2408909	200.00	210.03		5	20

F-VII

CALIBRATION VERIFICATION SUMMARY

SW 846 8260C

CCV ID: S8J1704-CCV1 **Analyzed:** 10/10/18 13:33

Analyte	Response Factor	Expected Result	Result	% Drift	Limit(s)
Toluene	0.8913027	200.00	193.11	3	20 (CCC)
trans-1,2-Dichloroethene	0.7078446	200.00	221.55	11	20
trans-1,3-Dichloropropene	0.3795366	200.00	233.29	17	20
Trichloroethene	0.2390769	200.00	208.22	4	20
Trichlorofluoromethane	0.7778794	200.00	188.23	6	20
Vinyl chloride	0.4649842	200.00	212.84	6	20 (CCC)

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V33991.D Vial: 42
Acq On : 10 Oct 2018 13:33 Operator: omd
Sample : SEQ-CCV@200 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 10 16:49 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Tue Oct 09 14:36:22 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.48	168	157222	50.00	ug/kg	0.02
33) 1,4-Difluorobenzene	8.91	114	291493	50.00	ug/kg	0.02
52) Chlorobenzene-d5	14.07	82	151386	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.06	152	137476	50.00	ug/kg	0.00
System Monitoring Compounds						
26) Dibromofluoromethane	7.36	113	104550	54.67	ug/kg	0.02
Spiked Amount 50.000	Range 59 - 147		Recovery =	109.34%		
43) Toluene-d8	11.54	98	347844	53.06	ug/kg	0.02
Spiked Amount 50.000	Range 66 - 134		Recovery =	106.12%		
62) 4-Bromofluorobenzene	16.11	95	151180	59.27	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery =	118.54%		

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.90	85	220973	233.67	ug/kg	95
3) Chloromethane	2.07	50	245713	175.04	ug/kg	95
4) Acrolein	3.32	56	5637	66.67	ug/kg	75
5) Vinyl Chloride	2.16	62	292423	212.84	ug/kg	93
6) Bromomethane	2.48	94	172527	204.02	ug/kg#	93
7) Chloroethane	2.58	64	194132	201.40	ug/kg	94
8) Trichlorofluoromethane	2.86	101	489199	188.23	ug/kg	99
9) 1,1,2-Trichloro-1,2,2 Trif	3.46	101	244330	163.56	ug/kg	84
10) Acetone	3.50	43	97922m	237.49	ug/kg	
11) 1,1-Dichloroethene	3.44	61	499690	231.64	ug/kg	70
12) tert-Butyl Alcohol	4.23	59	252156	2094.81	ug/kg	87
13) Methyl Acetate	3.89	43	170140	179.27	ug/kg	93
14) Methylene Chloride	4.10	84	315154	212.62	ug/kg	91
15) Carbon Disulfide	3.73	76	766284	140.08	ug/kg	98
16) Acrylonitrile	4.43	53	74733	161.31	ug/kg	92
17) Methyl tert-Butyl Ether	4.49	73	690269	202.42	ug/kg	89
18) trans-1,2-Dichloroethene	4.49	61	445155	221.55	ug/kg	76
19) 1,1-Dichloroethane	5.21	63	534345	218.21	ug/kg	99
21) 2-Butanone	6.33	43	113240	176.21	ug/kg	100
22) 2,2-Dichloropropane	6.35	77	495299	271.51	ug/kg	100
23) cis-1,2-Dichloroethene	6.35	61	512922	224.02	ug/kg	73
24) Chloroform	7.05	83	541472	230.37	ug/kg	99
25) Bromochloromethane	6.81	49	243452	202.36	ug/kg	84
27) Cyclohexane	7.46	56	402190	162.71	ug/kg	97
28) 1,1,1-Trichloroethane	7.34	97	463741	249.17	ug/kg	95
29) 1,1-Dichloropropene	7.67	75	396281	218.49	ug/kg	87
30) Carbon Tetrachloride	7.64	117	419776	250.10	ug/kg	100
31) 1,2-Dichloroethane	8.15	62	436016	261.14	ug/kg	98
32) Benzene	8.03	78	953516	179.91	ug/kg	98
34) Trichloroethene	9.31	130	278757	208.22	ug/kg	91
35) Methylcyclohexane	9.73	83	398962	170.67	ug/kg#	86
36) 1,2-Dichloropropane	9.78	63	257302	192.26	ug/kg	97
37) Bromodichloromethane	10.29	83	431144	166.53	ug/kg	97
39) Dibromomethane	9.93	174	162831	217.70	ug/kg	71
41) 4-Methyl-2-Pentanone	11.38	43	250229	191.62	ug/kg	93
42) cis-1,3-Dichloropropene	11.08	75	464290	213.87	ug/kg	94
44) Toluene	11.66	91	1039234	193.11	ug/kg	97
45) trans-1,3-Dichloropropene	12.11	75	442529	233.29	ug/kg	90
46) 1,1,2-Trichloroethane	12.45	97	198652	191.60	ug/kg	99
47) 2-Hexanone	12.85	43	177874	188.49	ug/kg	91
48) 1,3-Dichloropropane	12.72	76	370880	199.49	ug/kg	100
49) Tetrachloroethene	12.55	166	280872	210.03	ug/kg	98
50) Dibromochloromethane	13.07	129	290951	160.58	ug/kg	100
51) 1,2-Dibromoethane	13.25	107	212955	206.38	ug/kg#	83

(#) = qualifier out of range (m) = manual integration
3V33991.D 0717WC3.M Wed Oct 17 12:06:27 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V33991.D Vial: 42
Acq On : 10 Oct 2018 13:33 Operator: omd
Sample : SEQ-CCV@200 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 10 16:49 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Tue Oct 09 14:36:22 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

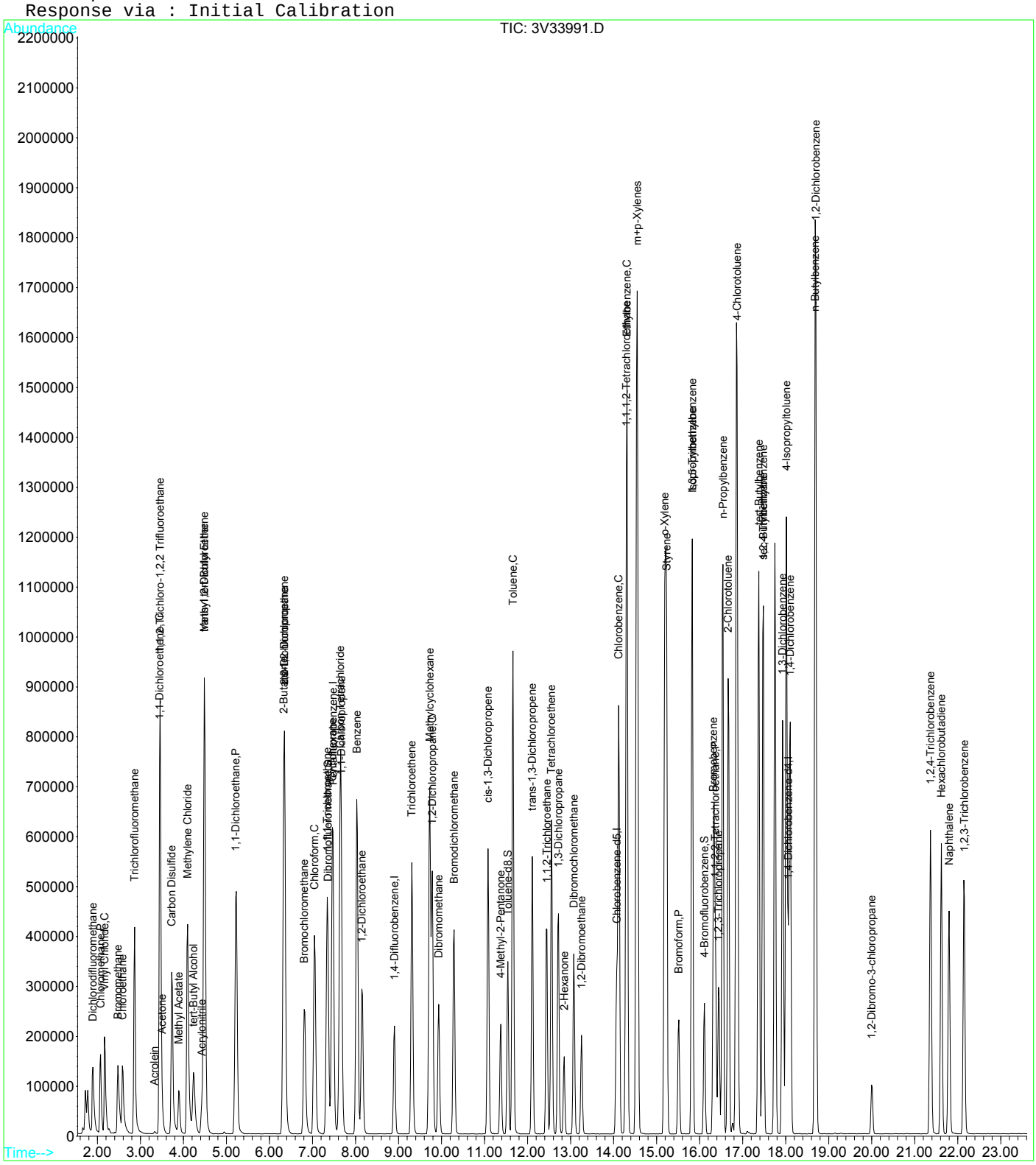
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53)	Chlorobenzene	14.12	112	691563	204.01	ug/kg	98
54)	1,1,1,2-Tetrachloroethane	14.30	131	273915	233.79	ug/kg	99
55)	Ethylbenzene	14.31	91	1272894	212.34	ug/kg	91
56)	m+p-Xylenes	14.55	106	883330	401.78	ug/kg	77
57)	o-Xylene	15.19	91	1007429	217.35	ug/kg	86
58)	Styrene	15.23	104	757260	208.39	ug/kg	89
59)	Isopropylbenzene	15.83	105	1238117	217.18	ug/kg#	90
60)	Bromoform	15.52	173	179485	226.45	ug/kg	99
61)	1,1,2,2-Tetrachloroethane	16.36	83	261811	186.64	ug/kg	96
63)	1,2,3-Trichloropropane	16.44	110	82275	220.57	ug/kg	96
64)	n-Propylbenzene	16.54	91	1509041	205.02	ug/kg#	93
65)	Bromobenzene	16.32	77	484663	210.46	ug/kg	75
66)	2-Chlorotoluene	16.66	91	893241	218.73	ug/kg	85
67)	4-Chlorotoluene	16.87	91	1053181	222.93	ug/kg#	83
68)	1,3,5-Trimethylbenzene	15.83	105	1238117	268.30	ug/kg#	56
69)	tert-Butylbenzene	17.38	119	864652	221.26	ug/kg#	81
70)	1,2,4-Trimethylbenzene	17.48	105	1025368	225.19	ug/kg	90
71)	sec-Butylbenzene	17.48	105	1025368	158.97	ug/kg#	70
72)	4-Isopropyltoluene	18.02	119	1132844	221.76	ug/kg	90
73)	1,3-Dichlorobenzene	17.93	146	556914	215.86	ug/kg#	93
75)	1,4-Dichlorobenzene	18.11	146	553295	209.68	ug/kg#	91
76)	n-Butylbenzene	18.69	91	1123812	215.84	ug/kg	94
77)	1,2-Dichlorobenzene	18.70	146	499417	214.98	ug/kg#	93
78)	1,2-Dibromo-3-chloropropan	20.00	75	52274	236.88	ug/kg	46
79)	1,2,4-Trichlorobenzene	21.37	180	346212	237.27	ug/kg	96
80)	Hexachlorobutadiene	21.62	225	200317	224.69	ug/kg	98
81)	Naphthalene	21.80	128	645900	198.15	ug/kg	98
82)	1,2,3-Trichlorobenzene	22.16	180	292388	221.99	ug/kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V33991.D Vial: 42
Acq On : 10 Oct 2018 13:33 Operator: omd
Sample : SEQ-CCV@200 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 10 16:49 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



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CALIBRATION VERIFICATION SUMMARY

SW 846 8260C

CCV ID: S8J1706-CCV1 **Analyzed:** 10/11/18 12:06

Analyte	Response Factor	Expected Result	Result		% Drift	Limit(s)
1,1,1-Trichloroethane	0.7386335	200.00	249.58	*	25	20
1,1,2,2-Tetrachloroethane	0.4083544	200.00	176.28		12	0.3 (SPCC)
1,1,2-Trichloro-1,2,2 Trifluoroethane	0.3855659	200.00	162.32		19	20
1,1,2-Trichloroethane	0.1675339	200.00	188.40		6	20
1,1-Dichloroethane	0.8625258	200.00	221.52		11	0.1 (SPCC)
1,1-Dichloroethene	0.790563	200.00	230.48		15	20 (CCC)
1,2,3-Trichlorobenzene	0.4491346	200.00	215.12		8	20
1,2,4-Trichlorobenzene	0.6022689	200.00	226.98		13	20
1,2,4-Trimethylbenzene	1.827834	200.00	211.88		6	20
1,2-Dibromo-3-chloropropane	9.097148E-02	200.00	227.47		14	20
1,2-Dibromoethane	0.1789234	200.00	202.18		1	20
1,2-Dichlorobenzene	0.8925047	200.00	211.27		6	20
1,2-Dichloroethane	0.6866358	200.00	258.62	*	29	20
1,2-Dichloropropane	0.2236168	200.00	194.82		3	20 (CCC)
1,3-Dichlorobenzene	0.8714575	200.00	204.54		2	20
1,4-Dichlorobenzene	0.9952809	200.00	207.42		4	20
2-Butanone	0.174838	200.00	171.09		14	20
2-Hexanone	0.1469789	200.00	181.60		9	20
4-Methyl-2-pentanone	0.2100835	200.00	187.58		6	20
Acetone	0.1409729	200.00	215.02		8	20
Benzene	1.549129	200.00	183.82		8	20
Bromochloromethane	0.3924546	200.00	205.15		3	20
Bromodichloromethane	0.3659221	200.00	236.47		18	20
Bromoform	0.275435	200.00	210.43		5	0.1 (SPCC)
Bromomethane	0.2825013	200.00	210.10		5	20
Carbon disulfide	1.202848	200.00	138.28	*	31	20
Carbon Tetrachloride	0.6633847	200.00	248.56	*	24	20
Chlorobenzene	1.095323	200.00	195.66		2	0.3 (SPCC)
Chlorodibromomethane	0.242004	200.00	223.20		12	20
Chloroethane	0.3058067	200.00	199.51		0	20
Chloroform	0.8718411	200.00	233.27		17	20 (CCC)
Chloromethane	0.3931683	200.00	176.15		12	0.1 (SPCC)
cis-1,2-Dichloroethene	0.8241116	200.00	226.36		13	20
cis-1,3-Dichloropropene	0.3956789	200.00	212.51		6	20
Cyclohexane	0.6490688	200.00	165.14		17	20
Dichlorodifluoromethane	0.3183648	200.00	211.72		6	20
EthylBenzene	2.010652	200.00	203.11		2	20 (CCC)
Isopropylbenzene	1.959547	200.00	208.14		4	20
m+p-Xylenes	0.7026695	400.00	387.07		3	20
Methyl Acetate	0.2670947	200.00	176.99		12	20
Methyl tert-Butyl Ether	1.089082	200.00	200.85		0	20
Methylcyclohexane	0.3416175	200.00	170.39		15	20
Methylene Chloride	0.4934852	200.00	209.19		5	20
o-Xylene	1.596957	200.00	208.63		4	20
Styrene	1.20811	200.00	201.32		1	20
tert-Butyl alcohol	3.908876E-02	2,000.00	2,041.49		2	20
Tetrachloroethene	0.2411271	200.00	210.23		5	20

F-VII

CALIBRATION VERIFICATION SUMMARY

SW 846 8260C

CCV ID: S8J1706-CCV1 **Analyzed:** 10/11/18 12:06

Analyte	Response Factor	Expected Result	Result		% Drift	Limit(s)
Toluene	0.8995815	200.00	194.91		3	20 (CCC)
trans-1,2-Dichloroethene	0.7171729	200.00	224.47		12	20
trans-1,3-Dichloropropene	0.3788893	200.00	232.89		16	20
Trichloroethene	0.2374675	200.00	206.82		3	20
Trichlorofluoromethane	0.7502296	200.00	260.69	*	30	20
Vinyl chloride	0.4569313	200.00	209.15		5	20 (CCC)

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10112018\3V34017.D Vial: 72
Acq On : 11 Oct 2018 12:06 Operator: omd
Sample : SEQ-CCV@200 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 16:20 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.52	168	161132	50.00	ug/kg	0.06
33) 1,4-Difluorobenzene	8.95	114	302494	50.00	ug/kg	0.06
52) Chlorobenzene-d5	14.10	82	165068	50.00	ug/kg	0.05
74) 1,4-Dichlorobenzene-d4	18.11	152	143883	50.00	ug/kg	0.05
System Monitoring Compounds						
26) Dibromofluoromethane	7.40	113	109643	55.94	ug/kg	0.06
Spiked Amount 50.000	Range 59 - 147		Recovery =	111.88%		
43) Toluene-d8	11.59	98	362129	53.23	ug/kg	0.06
Spiked Amount 50.000	Range 66 - 134		Recovery =	106.46%		
62) 4-Bromofluorobenzene	16.14	95	162426	58.40	ug/kg	0.05
Spiked Amount 50.000	Range 64 - 125		Recovery =	116.80%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.91	85	205195	211.72	ug/kg	95
3) Chloromethane	2.09	50	253408	176.15	ug/kg	96
4) Acrolein	3.37	56	6158	71.06	ug/kg	81
5) Vinyl Chloride	2.19	62	294505	209.15	ug/kg	94
6) Bromomethane	2.51	94	182080	210.10	ug/kg#	94
7) Chloroethane	2.61	64	197101	199.51	ug/kg	95
8) Trichlorofluoromethane	2.89	101	483544	260.69	ug/kg	99
9) 1,1,2-Trichloro-1,2,2 Trif	3.49	101	248508	162.32	ug/kg	80
10) Acetone	3.53	43	90861m	215.02	ug/kg	
11) 1,1-Dichloroethene	3.49	61	509540	230.48	ug/kg	75
12) tert-Butyl Alcohol	4.28	59	251938	2041.49	ug/kg	89
13) Methyl Acetate	3.93	43	172150	176.99	ug/kg	92
14) Methylene Chloride	4.13	84	318065	209.19	ug/kg	83
15) Carbon Disulfide	3.77	76	775269	138.28	ug/kg	99
16) Acrylonitrile	4.47	53	76245	160.56	ug/kg	96
17) Methyl tert-Butyl Ether	4.53	73	701944	200.85	ug/kg	91
18) trans-1,2-Dichloroethene	4.53	61	462238	224.47	ug/kg	76
19) 1,1-Dichloroethane	5.26	63	555922	221.52	ug/kg	99
21) 2-Butanone	6.39	43	112688	171.09	ug/kg	98
22) 2,2-Dichloropropane	6.40	77	509725	272.64	ug/kg	99
23) cis-1,2-Dichloroethene	6.39	61	531163	226.36	ug/kg	73
24) Chloroform	7.10	83	561926	233.27	ug/kg	99
25) Bromochloromethane	6.87	49	252948	205.15	ug/kg	83
27) Cyclohexane	7.52	56	418343	165.14	ug/kg	98
28) 1,1,1-Trichloroethane	7.39	97	476070	249.58	ug/kg	95
29) 1,1-Dichloropropene	7.71	75	410098	220.62	ug/kg	87
30) Carbon Tetrachloride	7.69	117	427570	248.56	ug/kg	100
31) 1,2-Dichloroethane	8.21	62	442556	258.62	ug/kg	98
32) Benzene	8.09	78	998457	183.82	ug/kg	98
34) Trichloroethene	9.35	130	287330	206.82	ug/kg	91
35) Methylcyclohexane	9.77	83	413349	170.39	ug/kg#	87
36) 1,2-Dichloropropane	9.83	63	270571	194.82	ug/kg	97
37) Bromodichloromethane	10.32	83	442757	236.47	ug/kg	98
39) Dibromomethane	9.98	174	162695	209.61	ug/kg	68
41) 4-Methyl-2-Pentanone	11.41	43	254196	187.58	ug/kg	93
42) cis-1,3-Dichloropropene	11.13	75	478762	212.51	ug/kg	95
44) Toluene	11.71	91	1088472	194.91	ug/kg	96
45) trans-1,3-Dichloropropene	12.15	75	458447	232.89	ug/kg	90
46) 1,1,2-Trichloroethane	12.48	97	202712	188.40	ug/kg	98
47) 2-Hexanone	12.88	43	177841	181.60	ug/kg	91
48) 1,3-Dichloropropane	12.75	76	383651	198.86	ug/kg	99
49) Tetrachloroethene	12.60	166	291758	210.23	ug/kg	98
50) Dibromochloromethane	13.12	129	292819	223.20	ug/kg	98
51) 1,2-Dibromoethane	13.30	107	216493	202.18	ug/kg#	85

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10112018\3V34017.D Vial: 72
Acq On : 11 Oct 2018 12:06 Operator: omd
Sample : SEQ-CCV@200 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 16:20 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53)	Chlorobenzene	14.16	112	723211	195.66	ug/kg	99
54)	1,1,1,2-Tetrachloroethane	14.33	131	283199	221.68	ug/kg	99
55)	Ethylbenzene	14.36	91	1327577	203.11	ug/kg	92
56)	m+p-Xylenes	14.58	106	927906	387.07	ug/kg	75
57)	o-Xylene	15.23	91	1054426	208.63	ug/kg	88
58)	Styrene	15.26	104	797681	201.32	ug/kg	88
59)	Isopropylbenzene	15.86	105	1293834	208.14	ug/kg#	88
60)	Bromoform	15.55	173	181862	210.43	ug/kg	97
61)	1,1,2,2-Tetrachloroethane	16.41	83	269625	176.28	ug/kg	96
63)	1,2,3-Trichloropropane	16.48	110	81877	201.31	ug/kg	94
64)	n-Propylbenzene	16.57	91	1567359	195.29	ug/kg#	91
65)	Bromobenzene	16.37	77	503094	200.36	ug/kg	82
66)	2-Chlorotoluene	16.71	91	922148	207.10	ug/kg	87
67)	4-Chlorotoluene	16.92	91	1092826	212.15	ug/kg	87
68)	1,3,5-Trimethylbenzene	15.86	105	1293834	257.13	ug/kg#	55
69)	tert-Butylbenzene	17.41	119	889991	208.87	ug/kg#	79
70)	1,2,4-Trimethylbenzene	17.51	105	1051977	211.88	ug/kg	89
71)	sec-Butylbenzene	17.51	105	1051977	149.58	ug/kg#	70
72)	4-Isopropyltoluene	18.05	119	1158571	208.00	ug/kg#	88
73)	1,3-Dichlorobenzene	17.97	146	575399	204.54	ug/kg#	94
75)	1,4-Dichlorobenzene	18.15	146	572816	207.42	ug/kg#	92
76)	n-Butylbenzene	18.73	91	1141911	209.55	ug/kg	95
77)	1,2-Dichlorobenzene	18.73	146	513665	211.27	ug/kg#	91
78)	1,2-Dibromo-3-chloropropan	20.04	75	52357	227.47	ug/kg	48
79)	1,2,4-Trichlorobenzene	21.41	180	346625	226.98	ug/kg	95
80)	Hexachlorobutadiene	21.66	225	202071	216.57	ug/kg	96
81)	Naphthalene	21.84	128	643272	188.56	ug/kg	98
82)	1,2,3-Trichlorobenzene	22.19	180	296551	215.12	ug/kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

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Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
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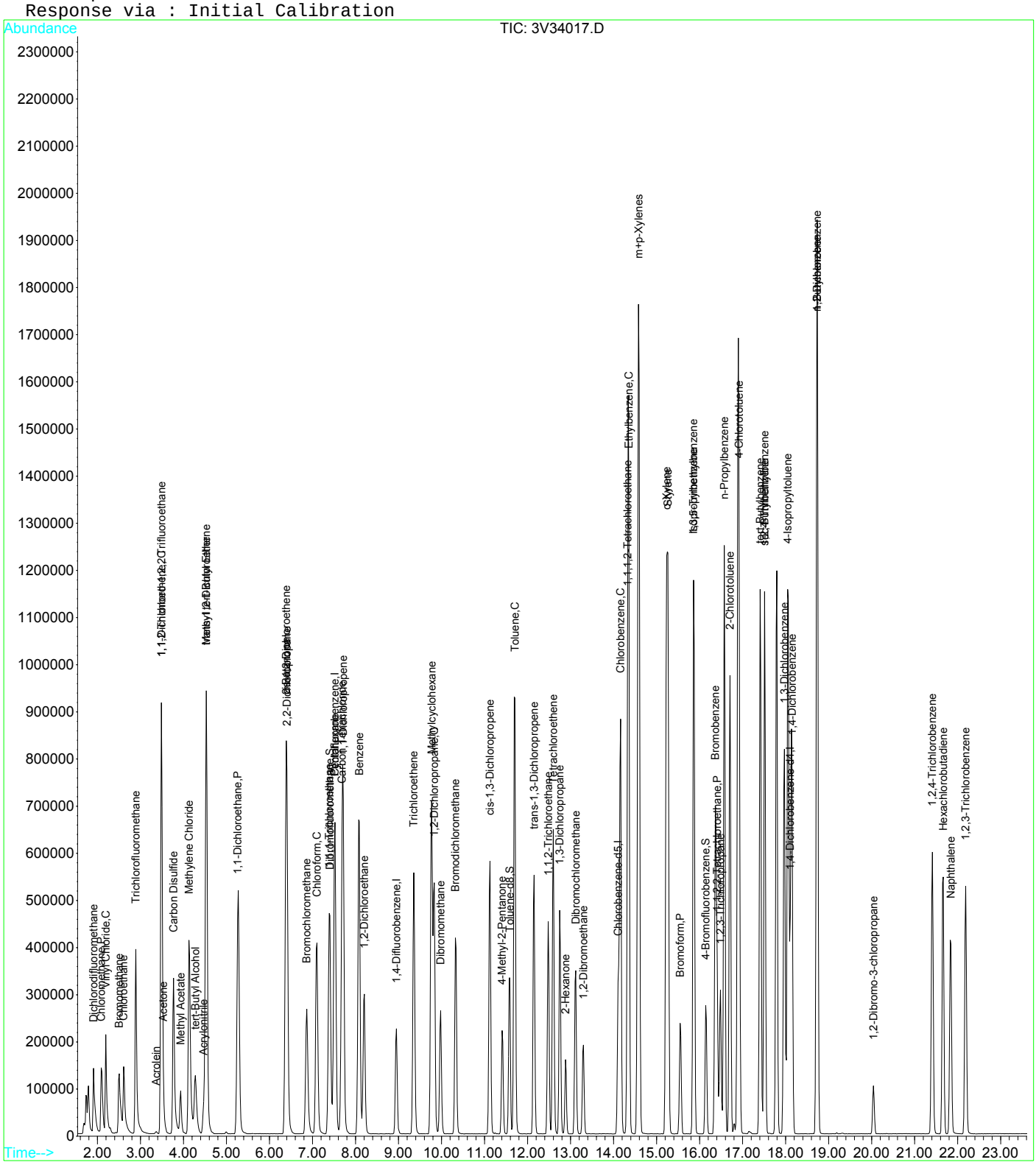


INTERNAL STANDARD REPORT

Analysis Class: VOLATILES **Analysis Batch:** S8J1704

		PFB		DFB		CHB-D5		DCB-D4					
Lab Number	File ID	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt
B8J1111-BLK1	3V33994.D	145721	7.49	275232	8.91	144968	14.07	125977	18.06				
8100452-01	3V34002.D	150003	7.49	284129	8.92	152189	14.07	132035	18.06				
8100452-02	3V34003.D	147411	7.49	282053	8.92	150180	14.07	126429	18.06				
8100452-05	3V34004.D	153714	7.49	287940	8.92	152713	14.07	134717	18.08				
8100452-06	3V34005.D	121951	7.51	230145	8.92	121749	14.07	109706	18.06				
8100452-07	3V34006.D	140882	7.51	262094	8.92	139480	14.07	114467	18.08				
8100452-11	3V34008.D	147505	7.49	269462	8.92	143908	14.07	125562	18.08				
8100452-12	3V34009.D	137633	7.51	257853	8.92	137391	14.07	119681	18.08				
8100452-14	3V34010.D	149345	7.51	275625	8.92	150050	14.09	131114	18.08				

Reference Std ID
S8J1704-CCV1

	Internal Standard	Ref Area	Area Limit	Ref RT	RT Limit
PFB	Pentafluorobenzene	157222	78,611.00 - 314,444.00	7.48	0.50
DFB	1,4-Difluorobenzene	291493	145,746.50 - 582,986.00	8.91	0.50
CHB-D5	Chlorobenzene-d5	151386	75,693.00 - 302,772.00	14.07	0.50
DCB-D4	1,4-Dichlorobenzene-d4	137476	68,738.00 - 274,952.00	18.06	0.50

* - Outside of QC Limits

F-VIII

INTERNAL STANDARD REPORT

Analysis Class: VOLATILES **Analysis Batch:** S8J1706

		PFB		DFB		CHB-D5		DCB-D4					
Lab Number	File ID	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt
B8J1141-BLK1	3V34019.D	160008	7.54	297018	8.95	159603	14.12	134115	18.11				
8100452-08	3V34020.D	157363	7.54	288376	8.95	154637	14.1	136983	18.11				

Reference Std ID
S8J1706-CCV1

	Internal Standard	Ref Area	Area Limit	Ref RT	RT Limit
PFB	Pentafluorobenzene	161132	80,566.00 - 322,264.00	7.52	0.50
DFB	1,4-Difluorobenzene	302494	151,247.00 - 604,988.00	8.95	0.50
CHB-D5	Chlorobenzene-d5	165068	82,534.00 - 330,136.00	14.1	0.50
DCB-D4	1,4-Dichlorobenzene-d4	143883	71,941.50 - 287,766.00	18.11	0.50

* - Outside of QC Limits

F-VIII

AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

GENERAL CHEMISTRY

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

General Chemistry

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452

General Chemistry

8100452-01 (Soil) - NTP-1A

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	89.9		1		10/11/18 10:54	Gravimetric
Cyanide	mg/kg dry	ND	0.278	1	U	10/11/18 13:30	SW 846 9014

8100452-02 (Soil) - NTP-2A

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	92.5		1		10/11/18 10:54	Gravimetric

8100452-03 (Soil) - NTP-2B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	92.3		1		10/11/18 10:54	Gravimetric

8100452-04 (Soil) - NTP-3B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	91.3		1		10/11/18 10:54	Gravimetric

8100452-05 (Soil) - NTP-4B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	92.0		1		10/11/18 10:54	Gravimetric

8100452-06 (Soil) - NTP-6

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Cyanide	mg/kg dry	ND	0.285	1	U	10/11/18 13:30	SW 846 9014
Percent Solids	%	87.7		1		10/11/18 10:54	Gravimetric

8100452-07 (Soil) - NTP-7

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	91.4		1		10/11/18 10:54	Gravimetric

8100452-08 (Soil) - STP-1B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	89.6		1		10/11/18 10:54	Gravimetric

8100452-09 (Soil) - STP-2B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	91.5		1		10/11/18 10:54	Gravimetric

8100452-10 (Soil) - STP-3B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	91.5		1		10/11/18 10:54	Gravimetric

8100452-11 (Soil) - STP-4A

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	90.6		1		10/11/18 10:54	Gravimetric

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

General Chemistry (Con't)

8100452-12 (Soil) - STP-4B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Cyanide	mg/kg dry	ND	0.273	1	U	10/11/18 13:30	SW 846 9014
Percent Solids	%	91.7		1		10/11/18 10:54	Gravimetric

8100452-13 (Soil) - STP-5

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	92.6		1		10/11/18 10:54	Gravimetric

8100452-14 (Soil) - STP-7

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	92.9		1		10/11/18 10:54	Gravimetric
Cyanide	mg/kg dry	ND	0.269	1	U	10/11/18 13:30	SW 846 9014

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

General Chemistry - Quality Control

Cyanide		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B8J1057			Prepared & Analyzed: 10/10/2018							
B8J1057-MSD1	**Source: 8100324-04**	2.98	0.313	mg/kg dry	3.13	ND	95.0	75-125	0.00	20
B8J1057-BLK1		ND	0.250	mg/kg wet						
B8J1057-MS1	**Source: 8100324-04**	2.98	0.313	mg/kg dry	3.13	ND	95.0	75-125		
B8J1057-DUP1	**Source: 8100324-04**	ND	0.313	mg/kg dry		ND				30
B8J1057-BS1		2.38	0.250	mg/kg wet	2.50		95.0	80-120		

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-III

APPENDIX C

BERGEN COMMUNITY COLLEGE ANALYTICAL DATA

CONSULTANTS, INC.
4405 South Clinton Avenue
South Plainfield, NJ 07080

Tel: (800) 545-ATUL
(908) 754-8383
Fax: (908) 754-8633

NJ EDA Approved Testing Laboratory • MBE/DBE Certified • NJ DEP Certified
www.ANSConsultants.net

Soil, Concrete, Masonry, Rebar, Asphalt, Structural Steel, Precast, Piles, Caissons, Fire-proofing, Roofing, Soil Boring, Concrete/Rock Coring, UST Removal, Environmental Testing & Reports

October 8, 2019

Village of Ridgewood
131 North Maple Avenue
Ridgewood, NJ 07450

Attn: Mr. Chris Rutishauser, P.E. CPWM

Re: "Clean Fill" Testing of Soil Sample-TAL/TCL Test
Soil sample marked as # ANS-5326-S1
Bergen Community College

Dear Mr. Rutishauser,

Enclosed, please find a laboratory test report for one composite soil sample prepared from 5-point grab samples on September 27, 2019 for the project referenced above. The primary purpose of the sampling and analytical work was to determine the presence of any hazardous contaminants in the soil.

Sample was analyzed for Target Compound List (TCL), Target Analyte List (TAL), Total Petroleum Hydrocarbon (TPHC- by EPH Method), pH, Chromium Hexavalent & Chromium Trivalent. Test results were reviewed against N.J. D.E.P. Residential, Non-Residential Direct Contact Soil Remediation Standard and Impact to Groundwater soil screening level criteria effective from September 18, 2017.

Contamination was not encountered exceeding NJDEP Residential and Non-Residential Standards in this sample.

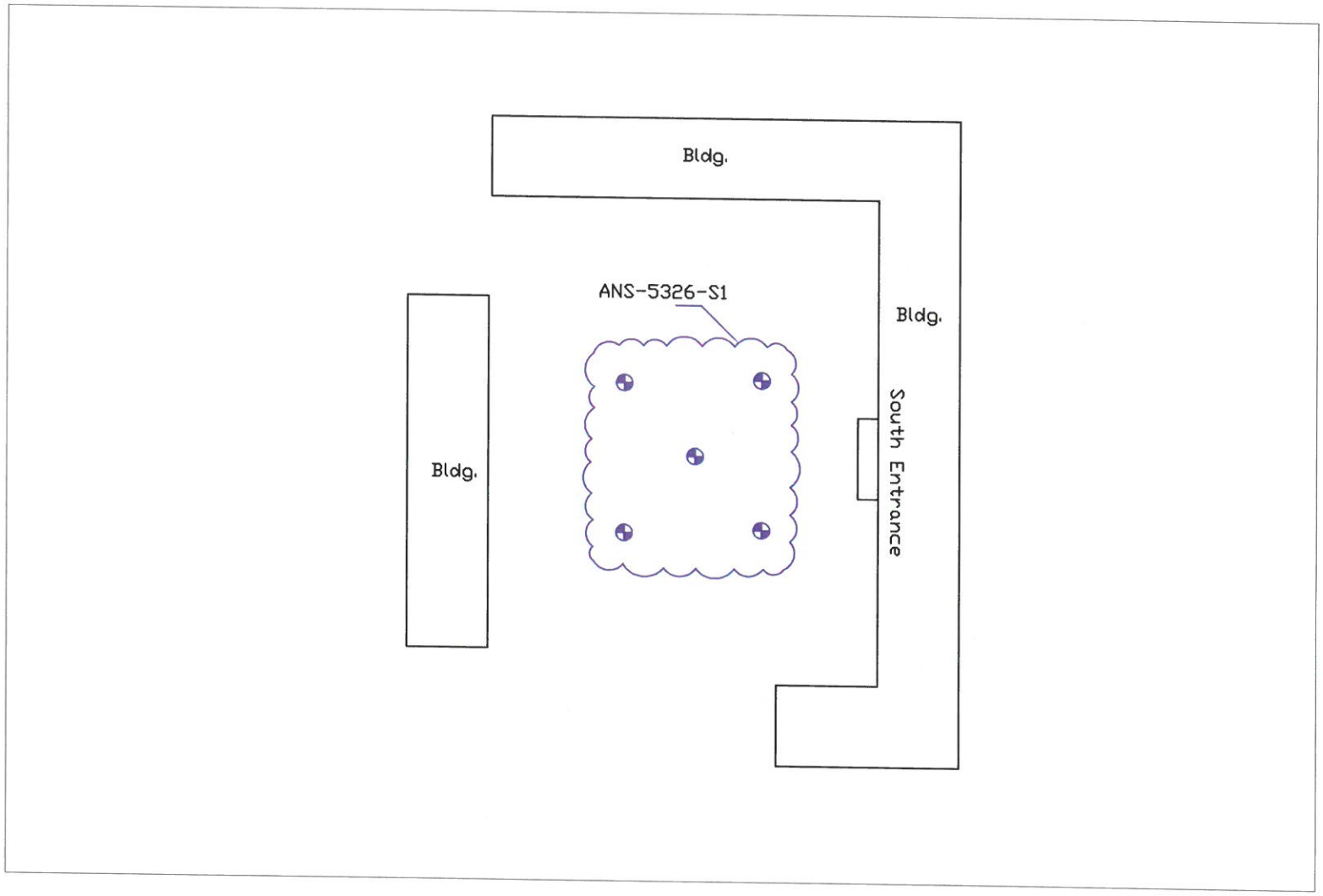
However, Aluminum, Manganese and Mercury exceeded Impact to Groundwater soil screening level criteria; but the Groundwater Quality Standards (GWQS) for Aluminum and Manganese are secondary, that is they are not based on health considerations. Additionally, these elements may be found as background contaminants. Therefore, Department does not require to address IGW pathway for these contaminants unless there is cause to believe that their presence is due to a site discharge.

Should you have any question or require additional information, please do not hesitate to contact the undersigned at (908) 754 - 8383.

Sincerely,
ANS CONSULTANTS, INC.

Atul N Shah, PE, F.ASCE
President
NJ PE License #24GE03443900
ANS/np

File: ANS-5326. TAL-TCL.01



SOIL BORING LOCATION PLAN

SCALE: N.T.S

LEGEND:

Soil Boring Location

CLIENT: Village of Ridgewood	
PROJECT: 131 North Maple Ave, Ridgewood, NJ	
ANS CONSULTANTS INC. 4405 SOUTH CLINTON AVE SO. PLAINFIELD, NJ, O7080	
PHONE: (908) 754 8383 - FAX: (908) 754 8633	
BY: Dharmin Parekh	DATE: 09/27/2019
	Project No: ANS-5326

Client: Village of Ridgewood
Project: Bergen Community College
Date:10/8/2019
File No: ANS-5326

Sample Collected: 9/27/2019

Work Order 9091335		NJDEP Soil Remediation Standards 2017						
Lab: Aqua Pro-Tech Laboratories		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	9091335-01			
Client: ANS Consultants - 131 North Maple Ave, Ridgewood, NY					ANS-5326-S1			
CAS#	Compound				09/27/2019 13:00			
Extractable Petroleum Hydrocarbons Category 2 (mg/kg)					Result	ualifi	MDL	RL
NJDEP-EPH2	Total EPH	NA	NA	NA	**29.3**		10.5	21.1
General Chemistry (mg/kg)					Result	ualifier		RL
18540-29-9	Chromium, Hexavalent	240	20	s spec.	0.423	U		0.423
57-12-5	Cyanide	47	680	20	0.263	U		0.263
General Chemistry (%)					Result	ualifi	MDL	RL
PERSOL	Percent Solids	NA	NA	NA	**94.9**			
General Chemistry (pH Units)					Result	ualifi	MDL	RL
	pH	NA	NA	NA	**7.64**		0.01	0.01
General Chemistry (mV)					Result	ualifier		RL
	Redox Potential	NA	NA	NA	**164**			-1000
PCBs (mg/kg)					Result	ualifi	MDL	RL
12674-11-2	Aroclor-1016	0.2	1	0.2	0.000619	U	0.000619	0.0348
11104-28-2	Aroclor-1221	0.2	1	0.2	0.00107	U	0.00107	0.0348
11141-16-5	Aroclor-1232	0.2	1	0.2	0.000819	U	0.000819	0.0348
53469-21-9	Aroclor-1242	0.2	1	0.2	0.00118	U	0.00118	0.0348
12672-29-6	Aroclor-1248	0.2	1	0.2	0.000815	U	0.000815	0.0348
11097-69-1	Aroclor-1254	0.2	1	0.2	0.00124	U	0.00124	0.0348
11096-82-5	Aroclor-1260	0.2	1	0.2	0.000917	U	0.000917	0.0348
37324-23-5	Aroclor-1262	0.2	1	0.2	0.00134	U	0.00134	0.0348
11100-14-4	Aroclor-1268	0.2	1	0.2	0.000703	U	0.000703	0.0348
1336-36-3	Total PCBs	0.2	1	0.2	0.000619	U	0.000619	0.0348
Pesticides (mg/kg)					Result	ualifi	MDL	RL
72-54-8	4,4'-DDD	3	13	4	0.0181		0.000829	0.00137
72-55-9	4,4'-DDE	2	9	18	0.158	D	0.00969	0.0137
50-29-3	4,4'-DDT [2C]	2	8	11	0.0102		0.000574	0.00137
309-00-2	Aldrin	0.04	0.2	0.2	0.00085	U	0.00085	0.00137
319-84-6	alpha-BHC	0.1	0.5	0.002	0.00053	U	0.00053	0.00137
319-85-7	beta-BHC	0.4	2	0.002	0.00135	U	0.00135	0.00137
57-74-9	Chlordane	0.2	1	0.05	0.00092	U	0.00092	0.00137
319-86-8	delta-BHC	NA	NA	NA	0.00106	U	0.00106	0.00137
60-57-1	Dieldrin	0.04	0.2	0.003	0.000737	U	0.000737	0.00137
959-98-8	Endosulfan I	470	6800	4	0.000948	U	0.000948	0.00137
33213-65-9	Endosulfan II	470	6800	4	0.000745	U	0.000745	0.00137
1031-07-8	Endosulfan sulfate	470	6800	2	0.000745	U	0.000745	0.00137
72-20-8	Endrin	23	340	1	0.000703	U	0.000703	0.00137
7421-93-4	Endrin aldehyde	NA	NA	NA	0.000585	U	0.000585	0.00137
53494-70-5	Endrin ketone	NA	NA	NA	0.000835	U	0.000835	0.00137
58-89-9	gamma-BHC (Lindane)	0.4	2	0.002	0.000626	U	0.000626	0.00137
76-44-8	Heptachlor	0.1	0.7	0.5	0.000801	U	0.000801	0.00137
1024-57-3	Heptachlor Epoxide	0.07	0.3	0.01	0.000856	U	0.000856	0.00137
72-43-5	Methoxychlor	390	5700	160	0.000871	U	0.000871	0.00137
8001-35-2	Toxaphene	0.6	3	0.3	0.0213	U	0.0213	0.0695
Semivolatile Organics - GC/MS (mg/kg)					Result	ualifi	MDL	RL
58-90-2	2,3,4,6-Tetrachlorophenol	NA	NA	NA	0.0216	U	0.0216	0.14
95-95-4	2,4,5-Trichlorophenol	6100	68000	68	0.0191	U	0.0191	0.14
88-06-2	2,4,6-Trichlorophenol	19	74	0.2	0.00878	U	0.00878	0.14
120-83-2	2,4-Dichlorophenol	180	2100	0.2	0.0141	U	0.0141	0.14
105-67-9	2,4-Dimethylphenol	1200	14000	1	0.0138	U	0.0138	0.14
51-28-5	2,4-Dinitrophenol	120	1400	0.3	0.0202	U	0.0202	0.703
121-14-2	2,4-Dinitrotoluene	0.7	3	0.2	0.015	U	0.015	0.14
606-20-2	2,6-Dinitrotoluene	0.7	3	0.2	0.0335	U	0.0335	0.14
91-58-7	2-Chloronaphthalene	NA	NA	NA	0.0161	U	0.0161	0.14
95-57-8	2-Chlorophenol	310	2200	0.8	0.0185	U	0.0185	0.14
91-57-6	2-Methylnaphthalene	230	2400	8	0.0336	U	0.0336	0.211
95-48-7	2-Methylphenol	310	3400	NA	0.0277	U	0.0277	0.14
88-74-4	2-Nitroaniline	39	23000	NA	0.0113	U	0.0113	0.14

Client: Village of Ridgewood
Project: Bergen Community College
Date:10/8/2019
File No: ANS-5326

Sample Collected: 9/27/2019

Work Order 9091335		NJDEP Soil Remediation Standards 2017						
Lab: Aqua Pro-Tech Laboratories		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	9091335-01			
Client: ANS Consultants - 131 North Maple Ave, Ridgewood, NY					ANS-5326-S1			
CAS#	Compound				09/27/2019 13:00			
88-75-5	2-Nitrophenol	NA	NA	NA	0.0156	U	0.0156	0.14
91-94-1	3,3'-Dichlorobenzidine	1	4	0.2	0.0147	U	0.0147	0.14
106-44-5	3+4-Methylphenol	31	340	NA	0.0257	U	0.0257	0.14
99-09-2	3-Nitroaniline	NA	NA	NA	0.026	U	0.026	0.14
534-52-1	4,6-Dinitro-2-methylphenol	6	68	0.3	0.0264	U	0.0264	0.351
101-55-3	4-Bromophenyl-phenyl ether	NA	NA	NA	0.02	U	0.02	0.14
59-50-7	4-Chloro-3-methylphenol	NA	NA	NA	0.0221	U	0.0221	0.14
106-47-8	4-Chloroaniline	NA	NA	NA	0.00491	U	0.00491	0.14
7005-72-3	4-Chlorophenyl phenyl ether	NA	NA	NA	0.00757	U	0.00757	0.14
100-01-6	4-Nitroaniline	NA	NA	NA	0.0702	U	0.0702	0.14
100-02-7	4-Nitrophenol	NA	NA	NA	0.00898	U	0.00898	0.14
83-32-9	Acenaphthene	3400	37000	110	0.008	U	0.008	0.14
208-96-8	Acenaphthylene	NA	300000	NA	0.00488	U	0.00488	0.14
98-86-2	Acetophenone	2	5	3	0.0139	U	0.0139	0.14
120-12-7	Anthracene	17000	30000	2400	0.0203	U	0.0203	0.14
1912-24-9	Atrazine	210	2400	0.2	0.0132	U	0.0132	0.14
100-52-7	Benzaldehyde	6100	68000	NA	0.0431	U	0.0431	0.14
56-55-3	Benzo(a)anthracene	5	17	0.8	0.0141	U	0.0141	0.14
50-32-8	Benzo(a)pyrene	0.5	2	0.2	0.0244	U	0.0244	0.14
205-99-2	Benzo(b)fluoranthene	5	17	2	0.0197	U	0.0197	0.14
191-24-2	Benzo(g,h,i)perylene	380000	30000	NA	0.0114	U	0.0114	0.14
207-08-9	Benzo(k)fluoranthene	45	170	25	0.0161	U	0.0161	0.14
92-52-4	Biphenyl	61	240	140	0.0123	U	0.0123	0.14
111-91-1	bis(2-chloroethoxy)methane	NA	NA	NA	0.0194	U	0.0194	0.14
111-44-4	bis(2-chloroethyl)ether	0.4	2	0.2	0.0154	U	0.0154	0.14
108-60-1	bis(2-chloroisopropyl)ether	23	67	5	0.0505	U	0.0505	0.14
117-81-7	bis(2-ethylhexyl)phthalate	35	140	1200	0.028	U	0.028	0.14
85-68-7	Butylbenzylphthalate	1200	14000	230	0.0127	U	0.0127	0.14
105-60-2	Caprolactam	31000	340000	12	0.0181	U	0.0181	0.14
86-74-8	Carbazole	24	96	NA	0.027	U	0.027	0.351
218-01-9	Chrysene	450	1700	80	0.00961	U	0.00961	0.14
53-70-3	Dibenzo(a,h)anthracene	0.5	2	0.8	0.0139	U	0.0139	0.14
132-64-9	Dibenzofuran	NA	NA	NA	0.00835	U	0.00835	0.14
84-66-2	Diethylphthalate	49000	550000	88	0.0272	U	0.0272	0.14
131-11-3	Dimethylphthalate	NA	NA	NA	0.0087	U	0.0087	0.14
84-74-2	Di-n-butylphthalate	6100	68000	760	0.0573	U	0.0573	0.14
117-84-0	Di-n-octylphthalate	2400	27000	3300	0.0288	U	0.0288	0.14
206-44-0	Fluoranthene	2300	24000	1300	0.0132	U	0.0132	0.14
86-73-7	Fluorene	2300	24000	170	0.0117	U	0.0117	0.14
118-74-1	Hexachlorobenzene	0.3	1	0.2	0.0183	U	0.0183	0.14
87-68-3	Hexachlorobutadiene	6	25	0.9	0.0673	U	0.0673	0.14
77-47-4	Hexachlorocyclopentadiene	45	110	320	0.0585	U	0.0585	0.351
67-72-1	Hexachloroethane	12	48	0.2	0.0154	U	0.0154	0.14
193-39-5	Indeno(1,2,3-cd)pyrene	5	17	7	0.0151	U	0.0151	0.14
78-59-1	Isophorone	510	2000	0.2	0.00919	U	0.00919	0.14
91-20-3	Naphthalene	6	17	25	0.0104	U	0.0104	0.14
98-95-3	Nitrobenzene	5	14	0.2	0.0238	U	0.0238	0.14
621-64-7	n-Nitroso-di-n-propylamine	0.2	0.3	0.2	0.00751	U	0.00751	0.14
86-30-6	n-Nitrosodiphenylamine	99	390	0.4	0.0299	U	0.0299	0.14
87-86-5	Pentachlorophenol	0.9	3	0.3	0.0193	U	0.0193	0.351
85-01-8	Phenanthrene	NA	300000	NA	0.0184	U	0.0184	0.14
108-95-2	Phenol	18000	210000	8	0.0114	U	0.0114	0.14
129-00-0	Pyrene	1700	18000	840	0.0103	U	0.0103	0.14
000123-95-5	Octadecanoic acid, butyl ester				**13.2**	J		
	unknown (01)				**16.5**	J		
	unknown (02)				**0.544**	J		
NA	Tentatively Identified Compounds				**30.2**	J		

Client: Village of Ridgewood
Project: Bergen Community College
Date:10/8/2019
File No: ANS-5326

Sample Collected: 9/27/2019

Work Order 9091335		NJDEP Soil Remediation Standards 2017						
Lab: Aqua Pro-Tech Laboratories		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	9091335-01			
Client: ANS Consultants - 131 North Maple Ave, Ridgewood, NY					ANS-5326-S1			
CAS#	Compound				09/27/2019 13:00			
Total Metals (mg/kg)					Result	ualifier		RL
7429-90-5	Aluminum	78000	NA	6000	**7610**			2.74
7440-36-0	Antimony	31	450	6	1.37	U		1.37
7440-38-2	Arsenic	19	19	19	4.06			0.549
7440-39-3	Barium	16000	59000	2100	51.6			0.549
7440-41-7	Beryllium	16	140	0.7	0.235			0.0274
7440-43-9	Cadmium	78	78	2	0.274	U		0.274
7440-70-2	Calcium	NA	NA	NA	3370			27.4
7440-47-3	Chromium	120000	NA	s spec.	15.0			0.274
7440-48-4	Cobalt	1600	590	90	4.28			0.219
7440-50-8	Copper	3100	45000	11000	12.3			0.274
7439-89-6	Iron	NA	NA	NA	10600			5.49
7439-92-1	Lead	400	800	90	24.1			1.37
7439-95-4	Magnesium	NA	NA	NA	2270			54.9
7439-96-5	Manganese	11000	5900	65	**175**			0.274
7439-97-6	Mercury	23	65	0.1	**0.615**			0.0516
7440-02-0	Nickel	1600	23000	48	8.42			0.137
7440-09-7	Potassium	NA	NA	NA	1350			110
7782-49-2	Selenium	390	5700	11	1.37	U		1.37
7440-22-4	Silver	390	5700	1	0.549	U		0.549
7440-23-5	Sodium	NA	NA	NA	103			54.9
7440-28-0	Thallium	NA	NA	3	1.37	U		1.37
7440-62-2	Vanadium	78	1100	NA	18.0			0.549
7440-66-6	Zinc	23000	110000	930	36.8			0.823
Volatile Organics - GC/MS (mg/kg)					Result	ualifi	MDL	RL
71-55-6	1,1,1-Trichloroethane	160000	NA	0.3	0.00029	U	0.00029	0.00199
79-34-5	1,1,2,2-Tetrachloroethane	1	3	0.007	0.000274	U	0.000274	0.00199
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	NA	NA	NA	0.000851	U	0.000851	0.00199
79-00-5	1,1,2-Trichloroethane	2	6	0.02	0.000335	U	0.000335	0.00199
75-34-3	1,1-Dichloroethane	8	24	0.2	0.00029	U	0.00029	0.00199
75-35-4	1,1-Dichloroethene	11	150	0.008	0.000368	U	0.000368	0.00199
87-61-6	1,2,3-Trichlorobenzene	NA	NA	NA	0.000429	U	0.000429	0.00199
120-82-1	1,2,4-Trichlorobenzene	73	820	0.7	0.00053	U	0.00053	0.00199
95-63-6	1,2,4-Trimethylbenzene	NA	NA	NA	0.000274	U	0.000274	0.00199
96-12-8	1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	0.000485	U	0.000485	0.00497
106-93-4	1,2-Dibromoethane	0.008	0.04	0.005	0.00025	U	0.00025	0.00199
95-50-1	1,2-Dichlorobenzene	5300	59000	17	0.000351	U	0.000351	0.00199
107-06-2	1,2-Dichloroethane	0.9	3	0.005	0.00028	U	0.00028	0.00199
78-87-5	1,2-Dichloropropane	2	5	0.005	0.000326	U	0.000326	0.00199
541-73-1	1,3-Dichlorobenzene	5300	59000	19	0.000146	U	0.000146	0.00199
106-46-7	1,4-Dichlorobenzene	5	13	2	0.000286	U	0.000286	0.00199
78-93-3	2-Butanone	3100	44000	0.9	0.000324	U	0.000324	0.00497
591-78-6	2-Hexanone	NA	NA	NA	0.000186	U	0.000186	0.00199
108-10-1	4-Methyl-2-pentanone	NA	NA	NA	0.000248	U	0.000248	0.00199
67-64-1	Acetone	70000	NA	19	0.000602	U	0.000602	0.00497
71-43-2	Benzene	2	5	0.005	0.000181	U	0.000181	0.00199
74-97-5	Bromochloromethane	NA	NA	NA	0.000367	U	0.000367	0.00199
75-27-4	Bromodichloromethane	1	3	0.005	0.000249	U	0.000249	0.00199
75-25-2	Bromoform	81	280	0.03	0.000349	U	0.000349	0.00199
74-83-9	Bromomethane	25	59	0.04	0.000573	U	0.000573	0.00199
75-15-0	Carbon disulfide	7800	110000	6	0.000285	U	0.000285	0.00199
56-23-5	Carbon Tetrachloride	2	4	0.005	0.000299	U	0.000299	0.00199
108-90-7	Chlorobenzene	510	7400	0.6	0.000288	U	0.000288	0.00199
124-48-1	Chlorodibromomethane	3	8	0.005	0.000244	U	0.000244	0.00199
75-00-3	Chloroethane	220	1100	NA	0.000339	U	0.000339	0.00199
67-66-3	Chloroform	0.6	2	0.4	0.000334	U	0.000334	0.00199
74-87-3	Chloromethane	4	12	NA	0.000765	U	0.000765	0.00199

Client: Village of Ridgewood
Project: Bergen Community College
Date:10/8/2019
File No: ANS-5326

Sample Collected: 9/27/2019

Work Order 9091335		NJDEP Soil Remediation Standards 2017						
Lab: Aqua Pro-Tech Laboratories		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	9091335-01			
Client: ANS Consultants - 131 North Maple Ave, Ridgewood, NY					ANS-5326-S1			
CAS#	Compound				09/27/2019 13:00			
156-59-2	cis-1,2-Dichloroethene	230	560	0.3	0.0000961	U	0.0000961	0.00199
10061-01-5	cis-1,3-Dichloropropene	2	7	0.005	0.000251	U	0.000251	0.00199
110-82-7	Cyclohexane	NA	NA	NA	0.00044	U	0.00044	0.00199
75-71-8	Dichlorodifluoromethane	490	230000	39	0.000671	U	0.000671	0.00199
100-41-4	EthylBenzene	7800	110000	13	0.000269	U	0.000269	0.00199
98-82-8	Isopropylbenzene	NA	NA	NA	0.000312	U	0.000312	0.00199
179601-23-1	m+p-Xylenes	12000	170000	19	0.000502	U	0.000502	0.00398
79-20-9	Methyl Acetate	78000	NA	22	0.000263	U	0.000263	0.00199
1634-04-4	Methyl tert-Butyl Ether	110	320	0.2	0.000336	U	0.000336	0.00199
108-87-2	Methylcyclohexane	NA	NA	NA	0.00032	U	0.00032	0.00199
75-09-2	Methylene Chloride	46	230	0.01	0.000597	U	0.000597	0.00199
95-47-6	o-Xylene	12000	170000	19	0.000255	U	0.000255	0.00199
100-42-5	Styrene	90	260	3	0.000284	U	0.000284	0.00199
75-65-0	tert-Butyl alcohol	1400	11000	0.3	0.00417	U	0.00417	0.0199
127-18-4	Tetrachloroethene	43	1500	0.005	0.000197	U	0.000197	0.00199
108-88-3	Toluene	6300	91000	7	0.00016	U	0.00016	0.00199
1330-20-7	Total Xylenes	12000	170000	19	0.000255	U	0.000255	0.00199
156-60-5	trans-1,2-Dichloroethene	300	720	0.6	0.000269	U	0.000269	0.00199
10061-02-6	trans-1,3-Dichloropropene	2	7	0.005	0.00038	U	0.00038	0.00199
79-01-6	Trichloroethene	3	10	0.01	0.000292	U	0.000292	0.00199
75-69-4	Trichlorofluoromethane	23000	340000	34	0.000229	U	0.000229	0.00199
75-01-4	Vinyl chloride	0.7	2	0.005	0.000378	U	0.000378	0.00199
NA	Tentatively Identified Compounds				0.00	J		

Main Footnotes:

Standards listed are based upon APL's interpretation of the published documents.
APL assumes no liability for the interpretation and/or accuracy of the standards.

Qualifiers:

U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
D - Indicates result is based on a dilution
E - Concentration exceeds highest calibration standard
B - Indicates compound found in associated blank
H - Indicates a Hold Time violation
P - Indicates a Greater than 25% diff. between 2 GC columns.

APL 9091335

CHAIN OF CUSTODY

www.aquaprotechlabs.com

TEL: 973.227.0422
FAX: 973.227.2813

CLIENT: ANS Consultants	SEND REPORT TO:
ADDRESS: 4405 South Clinton Ave. South Plainfield, NJ 07080	ADDRESS: 4405 South Clinton Ave. South Plainfield, NJ 07080
PHONE: 908-754-8383	PHONE: 908-754-8383
E-MAIL: ansgeoinc@yahoo.com Nehapatel@ansconsultants.net	FAX: 908-754-8633
PROJECT NAME: 131 North Maple Ave Ridgewood NY	SEND INVOICE TO: MR. ATUL SHAH, PE
PROJECT MGR: MR. ATUL SHAH, PE	ADDRESS: Same as above
PROJECT or PO #: ANS-5326	SAMPLED BY: Serge

Client: Village of Ridgewood

TURN-AROUND TIME

APL STANDARD 2 weeks
RUSH (choose one below)
- ☐ 24 hr. date & time required
- ☐ 48 hr. date & time required
- ☐ 72 hr. date & time required
- ☒ 1 week

REPORT FORMAT
- X RESULTS ONLY
- NJ DEP REDUCED
- NJ DEP FULL
- STATEFORMS/E2 REPORTING

PWSID#

ELECTRONIC FORMAT
- I X I EMAIL DELIVERY
- I I HAZSITE EDO
- I X I EXCEL

SKP#

Intermediate Reduced Deliverables

CONTAMINATION LEVEL

I HIGH I I MEDIUM I I LOW

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

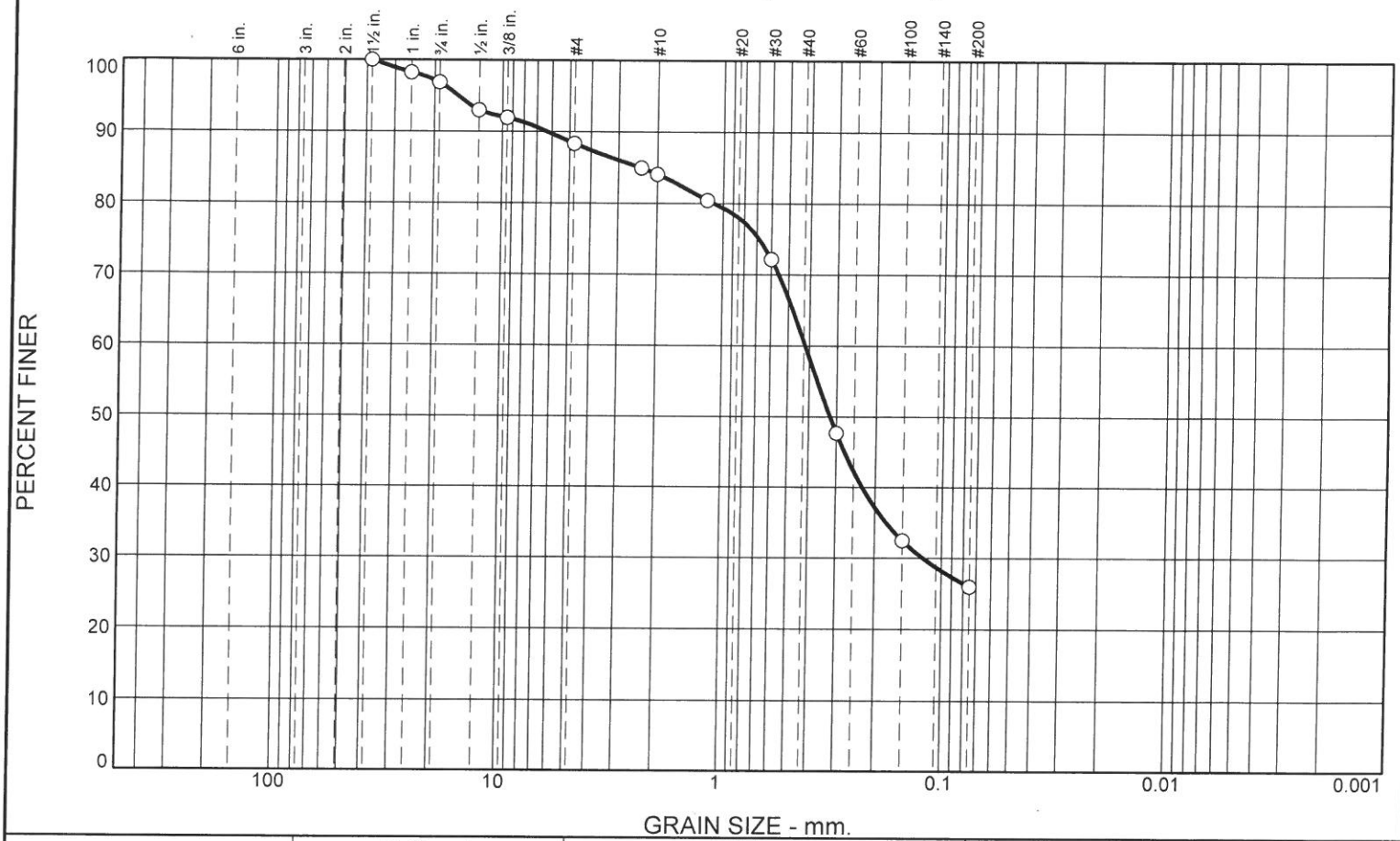
APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type: GRAB	Sample Type: COMPT	Matrix	No. of Bottles	Preservative	Analysis Requested
9091335-01	ANS-5326-S1	09/27/2019	1:00 pm		X	S	2, 8 oz. bottles & 3 Encores		TAL/TCL, pH, EPH, Chromium Hex. and Chromium Tri.

RELINQUISHED BY (Print)	DATE 9-27-19	RECEIVED BY (Print)	
Signature	Time 3:30	Signature	
RELINQUISHED BY (Print)	DATE 9-27-19	RECEIVED BY (Print)	
Signature	Time 6:00	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	
COMMENTS/SPECIAL INSTRUCTIONS		Cooler Temp. upon receipt at lab	4.1

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

Particle Size Distribution Report As per ASTM D 422



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	3.2	8.5	4.2	23.5	34.6	26.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0		
1	98.2		
3/4	96.8		
1/2	93.0		
3/8	91.9		
#4	88.3		
#8	84.9		
#10	84.1		
#16	80.4		
#30	72.2		
#50	47.6		
#100	32.5		
#200	26.0		

* (no specification provided)

Material Description

Brown in color. silty sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 6.3186 D_{85}= 2.3965 D_{60}= 0.4181
D_{50}= 0.3212 D_{30}= 0.1213 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SM AASHTO= A-2-4(0)

Remarks

Sample was collected by Mr. Sergy on 09/26/19 and tested on 09/30/19. In-Situ %MC=4.5
F.M.=2.05

Source of Sample: On-Site material
Sample Number: S-1

Date: 09/30/2019

ANS CONSULTANTS, INC.

South Plainfield, New Jersey

Client: Village of Ridgewood
Project: 131 North Maple Avenue, Ridgewood, NJ
Project No: ANS-5326

Figure 1 F 1

APPENDIX D

533 WYNDEMERE AVENUE ANALYTICAL DATA

CONSULTANTS, INC.
4405 South Clinton Avenue
South Plainfield, NJ 07080

Tel: (800) 545-ATUL
(908) 754-8383
Fax: (908) 754-8633

NJ EDA Approved Testing Laboratory • MBE/DBE Certified • NJ DEP Certified
www.ANSConsultants.net

May 19, 2021

DJR Renovations LLC
340 Fairway Road
Ridgewood, NJ 07450

Attn: Mr. Don Rick

Re: "Clean Fill" Testing of Soil Sample-TAL/TCL Test
Soil sample marked as # ANS-5727-S1
533 Wyndmere Avenue
Ridgewood, NJ 07450

Dear Mr. Rick,

Enclosed, please find a laboratory test report for one soil sample collected on May 10, 2021 for the project referenced above. Sample ANS-5727-S1 is collected from 8' depth from the testpit. The primary purpose of the sampling and analytical work was to determine the presence of any hazardous contaminants in the soil.

Sample was analyzed for Target Compound List (TCL), Target Analyte List (TAL), Total Petroleum Hydrocarbon (TPHC- by EPH Method), pH, Chromium Hexavalent and Chromium Trivalent. Test results were reviewed against N.J. D.E.P. Residential, Non-Residential Direct Contact Soil Remediation Standard and Impact to Groundwater soil screening level criteria effective from September 18, 2017.

EPH concentration of 117 ppm was noted in this sample. (EPH concentration below fractionation trigger of 1700 ppm).

Contamination was not encountered exceeding NJDEP Residential and Non-Residential Standards in this sample.

However, **Aluminum** and **Manganese** exceeded Impact to Groundwater soil screening level criteria; but the Groundwater Quality Standards (GWQS) for **Aluminum** and **Manganese** are secondary, that is they are not based on health considerations. Additionally, these elements may be found as background contaminants. Therefore, Department does not require to address IGW pathway for these contaminants unless there is cause to believe that their presence is due to a site discharge.

Should you have any question or require additional information, please do not hesitate to contact the undersigned at (908) 754 - 8383.

Sincerely,
ANS CONSULTANTS, INC.

Atul Shah, PE, F.ASCE
President
NJ PE License #24GE03443900
ANS/NP

File: ANS-5727. TAL-TCL.01

Client: DRJ Renovations, LLC
Project: 533 Wyndemere Ave, Ridgewood, NJ
Date:5/19/2021
File No: ANS-5727

Sample Collected: 5/11/2021

Work Order 1050518								
Lab: Aqua Pro-Tech Laboratories								
Client: ANS Consultants - 533 Wyndemere Ave, Ridgewood, NJ		NJDEP Soil Remediation Standards 2017						
		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	1050518-01 ANS-5727-S1 05/11/2021 00:00 Soil			
CAS#	Compound							
Extractable Petroleum Hydrocarbons Category 2 (mg/kg)					Result	Qualifier	MDL	RL
NJDEP-EPH2	Total EPH	NA	NA	NA	**117**		10.5	21
General Chemistry (%)					Result	Qualifier		ZERO
PERSOL	Percent Solids	NA	NA	NA	**95.4**			
General Chemistry (mg/kg)					Result	Qualifier		RL
18540-29-9	Chromium, Hexavalent	240	20	s spec.	0.414	U		0.414
57-12-5	Cyanide	47	680	20	0.267	U		0.267
General Chemistry (mV)					Result	Qualifier		RL
	Redox Potential	NA	NA	NA	**189**			-1000
General Chemistry (pH Units)					Result	Qualifier		RL
	pH	NA	NA	NA	**5.30**			0.0100
PCBs (mg/kg)					Result	Qualifier	MDL	RL
12674-11-2	Aroclor-1016	0.2	1	0.2	0.00464	U	0.00464	0.0346
11104-28-2	Aroclor-1221	0.2	1	0.2	0.00913	U	0.00913	0.0346
11141-16-5	Aroclor-1232	0.2	1	0.2	0.0116	U	0.0116	0.0346
53469-21-9	Aroclor-1242	0.2	1	0.2	0.0068	U	0.0068	0.0346
12672-29-6	Aroclor-1248	0.2	1	0.2	0.00711	U	0.00711	0.0346
11097-69-1	Aroclor-1254	0.2	1	0.2	0.00558	U	0.00558	0.0346
11096-82-5	Aroclor-1260	0.2	1	0.2	0.00433	U	0.00433	0.0346
37324-23-5	Aroclor-1262	0.2	1	0.2	0.00931	U	0.00931	0.0346
11100-14-4	Aroclor-1268	0.2	1	0.2	0.00419	U	0.00419	0.0346
1336-36-3	Total PCBs	0.2	1	0.2	0.00323	U	0.00323	0.0346
Pesticides (mg/kg)					Result	Qualifier	MDL	RL
72-54-8	4,4'-DDD	3	13	4	0.000624	U	0.000624	0.00136
72-55-9	4,4'-DDE	2	9	18	0.000746	U	0.000746	0.00136
50-29-3	4,4'-DDT	2	8	11	0.000963	U	0.000963	0.00136
309-00-2	Aldrin	0.04	0.2	0.2	0.000646	U	0.000646	0.00136
319-84-6	alpha-BHC	0.1	0.5	0.002	0.000406	U	0.000406	0.00136
319-85-7	beta-BHC	0.4	2	0.002	0.000651	U	0.000651	0.00136
57-74-9	Chlordane	0.2	1	0.05	0.000606	U	0.000606	0.00136
319-86-8	delta-BHC	NA	NA	NA	0.000633	U	0.000633	0.00136
60-57-1	Dieldrin	0.04	0.2	0.003	0.000713	U	0.000713	0.00136
959-98-8	Endosulfan I	470	6800	4	0.000644	U	0.000644	0.00136
33213-65-9	Endosulfan II	470	6800	4	0.00062	U	0.00062	0.00136
1031-07-8	Endosulfan sulfate	470	6800	2	0.000513	U	0.000513	0.00136
72-20-8	Endrin	23	340	1	0.000471	U	0.000471	0.00136
7421-93-4	Endrin aldehyde	NA	NA	NA	0.000543	U	0.000543	0.00136
53494-70-5	Endrin ketone	NA	NA	NA	0.00048	U	0.00048	0.00136
58-89-9	gamma-BHC (Lindane)	0.4	2	0.002	0.000432	U	0.000432	0.00136
76-44-8	Heptachlor	0.1	0.7	0.5	0.000365	U	0.000365	0.00136
1024-57-3	Heptachlor Epoxide	0.07	0.3	0.01	0.000688	U	0.000688	0.00136
72-43-5	Methoxychlor	390	5700	160	0.0004	U	0.0004	0.00136
8001-35-2	Toxaphene	0.6	3	0.3	0.0657	U	0.0657	0.0692
Semivolatile Organics - GC/MS (mg/kg)					Result	Qualifier	MDL	RL
122-66-7	1,2-Diphenylhydrazine	0.7	2	0.7	0.0152	U	0.0152	0.139
58-90-2	2,3,4,6-Tetrachlorophenol	NA	NA	NA	0.0215	U	0.0215	0.139
95-95-4	2,4,5-Trichlorophenol	6100	68000	68	0.019	U	0.019	0.139
88-06-2	2,4,6-Trichlorophenol	19	74	0.2	0.00873	U	0.00873	0.139
120-83-2	2,4-Dichlorophenol	180	2100	0.2	0.0141	U	0.0141	0.139
105-67-9	2,4-Dimethylphenol	1200	14000	1	0.0137	U	0.0137	0.139
51-28-5	2,4-Dinitrophenol	120	1400	0.3	0.0201	U	0.0201	0.699
121-14-2	2,4-Dinitrotoluene	0.7	3	0.2	0.0149	U	0.0149	0.139
606-20-2	2,6-Dinitrotoluene	0.7	3	0.2	0.0333	U	0.0333	0.139
91-58-7	2-Chloronaphthalene	NA	NA	NA	0.016	U	0.016	0.139

Client: DRJ Renovations, LLC
Project: 533 Wyndemere Ave, Ridgewood, NJ
Date:5/19/2021
File No: ANS-5727

Sample Collected: 5/11/2021

Work Order 1050518								
Lab: Aqua Pro-Tech Laboratories								
Client: ANS Consultants - 533 Wyndemere Ave, Ridgewood, NJ		NJDEP Soil Remediation Standards 2017						
		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	1050518-01 ANS-5727-S1 05/11/2021 00:00 Soil			
CAS#	Compound							
95-57-8	2-Chlorophenol	310	2200	0.8	0.0185	U	0.0185	0.139
91-57-6	2-Methylnaphthalene	230	2400	8	0.0335	U	0.0335	0.21
95-48-7	2-Methylphenol	310	3400	NA	0.0276	U	0.0276	0.139
88-74-4	2-Nitroaniline	39	23000	NA	0.0112	U	0.0112	0.139
88-75-5	2-Nitrophenol	NA	NA	NA	0.0155	U	0.0155	0.139
91-94-1	3,3'-Dichlorobenzidine	1	4	0.2	0.0147	U	0.0147	0.139
65794-96-9	3+4-Methylphenol	31	340	NA	0.0256	U	0.0256	0.139
99-09-2	3-Nitroaniline	NA	NA	NA	0.0259	U	0.0259	0.139
534-52-1	4,6-Dinitro-2-methylphenol	6	68	0.3	0.0263	U	0.0263	0.349
101-55-3	4-Bromophenyl-phenyl ether	NA	NA	NA	0.0199	U	0.0199	0.139
59-50-7	4-Chloro-3-methylphenol	NA	NA	NA	0.022	U	0.022	0.139
106-47-8	4-Chloroaniline	NA	NA	NA	0.00489	U	0.00489	0.139
7005-72-3	4-Chlorophenyl phenyl ether	NA	NA	NA	0.00754	U	0.00754	0.139
100-01-6	4-Nitroaniline	NA	NA	NA	0.0698	U	0.0698	0.139
100-02-7	4-Nitrophenol	NA	NA	NA	0.00893	U	0.00893	0.139
83-32-9	Acenaphthene	3400	37000	110	0.00796	U	0.00796	0.139
208-96-8	Acenaphthylene	NA	300000	NA	0.00485	U	0.00485	0.139
98-86-2	Acetophenone	2	5	3	0.0138	U	0.0138	0.139
120-12-7	Anthracene	17000	30000	2400	0.0202	U	0.0202	0.139
1912-24-9	Atrazine	210	2400	0.2	0.0131	U	0.0131	0.139
100-52-7	Benzaldehyde	6100	68000	NA	0.0429	U	0.0429	0.139
92-87-5	Benzidine	0.7	0.7	0.7	0.319	U	0.319	0.349
56-55-3	Benzo(a)anthracene	5	17	0.8	0.0141	U	0.0141	0.139
50-32-8	Benzo(a)pyrene	0.5	2	0.2	0.0243	U	0.0243	0.139
205-99-2	Benzo(b)fluoranthene	5	17	2	0.0196	U	0.0196	0.139
191-24-2	Benzo(g,h,i)perylene	380000	30000	NA	0.0113	U	0.0113	0.139
207-08-9	Benzo(k)fluoranthene	45	170	25	0.016	U	0.016	0.139
92-52-4	Biphenyl	61	240	140	0.0123	U	0.0123	0.139
111-91-1	bis(2-chloroethoxy)methane	NA	NA	NA	0.0193	U	0.0193	0.139
111-44-4	bis(2-chloroethyl)ether	0.4	2	0.2	0.0153	U	0.0153	0.139
108-60-1	bis(2-chloroisopropyl)ether	23	67	5	0.0502	U	0.0502	0.139
117-81-7	bis(2-ethylhexyl)phthalate	35	140	1200	0.0279	U	0.0279	0.139
85-68-7	Butylbenzylphthalate	1200	14000	230	0.0127	U	0.0127	0.139
105-60-2	Caprolactam	31000	340000	12	0.018	U	0.018	0.139
86-74-8	Carbazole	24	96	NA	0.0268	U	0.0268	0.349
218-01-9	Chrysene	450	1700	80	0.00956	U	0.00956	0.139
53-70-3	Dibenzo(a,h)anthracene	0.5	2	0.8	0.0138	U	0.0138	0.139
132-64-9	Dibenzofuran	NA	NA	NA	0.00832	U	0.00832	0.139
84-66-2	Diethylphthalate	49000	550000	88	0.0271	U	0.0271	0.139
131-11-3	Dimethylphthalate	NA	NA	NA	0.00866	U	0.00866	0.139
84-74-2	Di-n-butylphthalate	6100	68000	760	0.057	U	0.057	0.139
117-84-0	Di-n-octylphthalate	2400	27000	3300	0.0286	U	0.0286	0.139
206-44-0	Fluoranthene	2300	24000	1300	0.0131	U	0.0131	0.139
86-73-7	Fluorene	2300	24000	170	0.0116	U	0.0116	0.139
118-74-1	Hexachlorobenzene	0.3	1	0.2	0.0182	U	0.0182	0.139
87-68-3	Hexachlorobutadiene	6	25	0.9	0.067	U	0.067	0.139
77-47-4	Hexachlorocyclopentadiene	45	110	320	0.0582	U	0.0582	0.349
67-72-1	Hexachloroethane	12	48	0.2	0.0153	U	0.0153	0.139
193-39-5	Indeno(1,2,3-cd)pyrene	5	17	7	0.015	U	0.015	0.139
78-59-1	Isophorone	510	2000	0.2	0.00914	U	0.00914	0.139
91-20-3	Naphthalene	6	17	25	0.0103	U	0.0103	0.139
98-95-3	Nitrobenzene	5	14	0.2	0.0237	U	0.0237	0.139
62-75-9	n-Nitroso-dimethylamine	0.7	0.7	0.7	0.0497	U	0.0497	0.139
621-64-7	n-Nitroso-di-n-propylamine	0.2	0.3	0.2	0.00748	U	0.00748	0.139

Client: DRJ Renovations, LLC
Project: 533 Wyndemere Ave, Ridgewood, NJ
Date:5/19/2021
File No: ANS-5727

Sample Collected: 5/11/2021

Work Order 1050518								
Lab: Aqua Pro-Tech Laboratories								
Client: ANS Consultants - 533 Wyndemere Ave, Ridgewood, NJ		NJDEP Soil Remediation Standards 2017						
		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	**1050518-01 ANS-5727-S1 05/11/2021 00:00 Soil**			
CAS#	**Compound**							
86-30-6	n-Nitrosodiphenylamine	99	390	0.4	0.0298	U	0.0298	0.139
87-86-5	Pentachlorophenol	0.9	3	0.3	0.0192	U	0.0192	0.349
85-01-8	Phenanthrene	NA	300000	NA	0.0184	U	0.0184	0.139
108-95-2	Phenol	18000	210000	8	0.0113	U	0.0113	0.139
129-00-0	Pyrene	1700	18000	840	0.0103	U	0.0103	0.139
NA	Tentatively Identified Compounds				0.00	J		
Total Metals (mg/kg)					Result	Qualifier		RL
7429-90-5	Aluminum	78000	NA	6000	**8420**			2.65
7440-36-0	Antimony	31	450	6	1.32	U		1.32
7440-38-2	Arsenic	19	19	19	1.48			1.32
7440-39-3	Barium	16000	59000	2100	34.7			0.530
7440-41-7	Beryllium	16	140	0.7	0.277			0.0265
7440-43-9	Cadmium	78	78	2	0.265	U		0.265
7440-70-2	Calcium	NA	NA	NA	265			26.5
7440-47-3	Chromium	120000	NA	s spec.	7.47			0.265
16065-83-1	Chromium, Trivalent	NA	NA	NA	7.47			0.265
7440-48-4	Cobalt	1600	590	90	3.39			0.212
7440-50-8	Copper	3100	45000	11000	6.75			0.265
7439-89-6	Iron	NA	NA	NA	11400			5.30
7439-92-1	Lead	400	800	90	4.45			1.32
7439-95-4	Magnesium	NA	NA	NA	2200			53.0
7439-96-5	Manganese	11000	5900	65	**239**			0.265
7439-97-6	Mercury	23	65	0.1	0.0485	U		0.0485
7440-02-0	Nickel	1600	23000	48	8.84			0.132
7440-09-7	Potassium	NA	NA	NA	638			106
7782-49-2	Selenium	390	5700	11	1.32	U		1.32
7440-22-4	Silver	390	5700	1	0.53	U		0.530
7440-23-5	Sodium	NA	NA	NA	73.6			53.0
7440-28-0	Thallium	NA	NA	3	1.32	U		1.32
7440-62-2	Vanadium	78	1100	NA	10.8			0.530
7440-66-6	Zinc	23000	110000	930	24.1			0.794
Volatile Organics - GC/MS (mg/kg)					Result	Qualifier	MDL	RL
71-55-6	1,1,1-Trichloroethane	160000	NA	0.3	0.000201	U	0.000201	0.00138
79-34-5	1,1,2,2-Tetrachloroethane	1	3	0.007	0.00019	U	0.00019	0.00138
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	NA	NA	NA	0.000591	U	0.000591	0.00138
79-00-5	1,1,2-Trichloroethane	2	6	0.02	0.000232	U	0.000232	0.00138
75-34-3	1,1-Dichloroethane	8	24	0.2	0.000201	U	0.000201	0.00138
75-35-4	1,1-Dichloroethene	11	150	0.008	0.000255	U	0.000255	0.00138
87-61-6	1,2,3-Trichlorobenzene	NA	NA	NA	0.000298	U	0.000298	0.00138
120-82-1	1,2,4-Trichlorobenzene	73	820	0.7	0.000368	U	0.000368	0.00138
95-63-6	1,2,4-Trimethylbenzene	NA	NA	NA	0.00617		0.00019	0.00138
96-12-8	1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	0.000337	U	0.000337	0.00345
106-93-4	1,2-Dibromoethane	0.008	0.04	0.005	0.000174	U	0.000174	0.00138
95-50-1	1,2-Dichlorobenzene	5300	59000	17	0.000244	U	0.000244	0.00138
107-06-2	1,2-Dichloroethane	0.9	3	0.005	0.000195	U	0.000195	0.00138
78-87-5	1,2-Dichloropropane	2	5	0.005	0.000226	U	0.000226	0.00138
541-73-1	1,3-Dichlorobenzene	5300	59000	19	0.000101	U	0.000101	0.00138
106-46-7	1,4-Dichlorobenzene	5	13	2	0.000199	U	0.000199	0.00138
78-93-3	2-Butanone	3100	44000	0.9	0.000225	U	0.000225	0.00345
591-78-6	2-Hexanone	NA	NA	NA	0.000129	U	0.000129	0.00138
108-10-1	4-Methyl-2-pentanone	NA	NA	NA	0.000172	U	0.000172	0.00138
67-64-1	Acetone	70000	NA	19	0.000418	U	0.000418	0.00345
107-02-8	Acrolein	0.5	1	0.5	0.000745	U	0.000745	0.00138
107-13-1	Acrylonitrile	0.9	3	0.5	0.000322	U	0.000322	0.00138

Client: DRJ Renovations, LLC
Project: 533 Wyndemere Ave, Ridgewood, NJ
Date:5/19/2021
File No: ANS-5727

Sample Collected: 5/11/2021

Work Order 1050518								
Lab: Aqua Pro-Tech Laboratories								
Client: ANS Consultants - 533 Wyndemere Ave, Ridgewood, NJ		NJDEP Soil Remediation Standards 2017						
		NJDEP	NJDEP	NJDEP	**1050518-01**			
		Residential	Non-Residential	Impact To	**ANS-5727-S1**			
		Direct Contact	Direct Contact	Ground Water	**05/11/2021 00:00**			
		Standard	Standard	Standard	**Soil**			
		9/2017	9/2017	11/2013				
CAS#	**Compound**							
71-43-2	Benzene	2	5	0.005	0.000126	U	0.000126	0.00138
74-97-5	Bromochloromethane	NA	NA	NA	0.000255	U	0.000255	0.00138
75-27-4	Bromodichloromethane	1	3	0.005	0.000173	U	0.000173	0.00138
75-25-2	Bromoform	81	280	0.03	0.000242	U	0.000242	0.00138
74-83-9	Bromomethane	25	59	0.04	0.000398	U	0.000398	0.00138
75-15-0	Carbon disulfide	7800	110000	6	0.000198	U	0.000198	0.00138
56-23-5	Carbon Tetrachloride	2	4	0.005	0.000208	U	0.000208	0.00138
108-90-7	Chlorobenzene	510	7400	0.6	0.0002	U	0.0002	0.00138
124-48-1	Chlorodibromomethane	3	8	0.005	0.00017	U	0.00017	0.00138
75-00-3	Chloroethane	220	1100	NA	0.000235	U	0.000235	0.00138
67-66-3	Chloroform	0.6	2	0.4	0.000232	U	0.000232	0.00138
74-87-3	Chloromethane	4	12	NA	0.000531	U	0.000531	0.00138
156-59-2	cis-1,2-Dichloroethene	230	560	0.3	0.0000667	U	0.0000667	0.00138
10061-01-5	cis-1,3-Dichloropropene	2	7	0.005	0.000175	U	0.000175	0.00138
110-82-7	Cyclohexane	NA	NA	NA	0.000306	U	0.000306	0.00138
75-71-8	Dichlorodifluoromethane	490	230000	39	0.000466	U	0.000466	0.00138
100-41-4	EthylBenzene	7800	110000	13	0.00102	J	0.000187	0.00138
98-82-8	Isopropylbenzene	NA	NA	NA	0.000217	U	0.000217	0.00138
179601-23-1	m+p-Xylenes	12000	170000	19	0.00620		0.000348	0.00276
79-20-9	Methyl Acetate	78000	NA	22	0.000183	U	0.000183	0.00138
1634-04-4	Methyl tert-Butyl Ether	110	320	0.2	0.000233	U	0.000233	0.00138
108-87-2	Methylcyclohexane	NA	NA	NA	0.000222	U	0.000222	0.00138
75-09-2	Methylene Chloride	46	230	0.01	0.000415	U	0.000415	0.00138
95-47-6	o-Xylene	12000	170000	19	0.00174		0.000177	0.00138
100-42-5	Styrene	90	260	3	0.000197	U	0.000197	0.00138
75-65-0	tert-Butyl alcohol	1400	11000	0.3	0.0029	U	0.0029	0.0138
127-18-4	Tetrachloroethene	43	1500	0.005	0.000137	U	0.000137	0.00138
108-88-3	Toluene	6300	91000	7	0.000111	U	0.000111	0.00138
1330-20-7	Total Xylenes	12000	170000	19	0.00794		0.000177	0.00138
156-60-5	trans-1,2-Dichloroethene	300	720	0.6	0.000187	U	0.000187	0.00138
10061-02-6	trans-1,3-Dichloropropene	2	7	0.005	0.000264	U	0.000264	0.00138
79-01-6	Trichloroethene	3	10	0.01	0.000203	U	0.000203	0.00138
75-69-4	Trichlorofluoromethane	23000	340000	34	0.000159	U	0.000159	0.00138
75-01-4	Vinyl chloride	0.7	2	0.005	0.000262	U	0.000262	0.00138
NA	Tentatively Identified Compounds				0.00	J		

Main Footnotes:
Standards listed are based upon APL's interpretation of the published documents.
APL assumes no liability for the interpretation and/or accuracy of the standards.

Qualifiers:
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
D - Indicates result is based on a dilution
E - Concentration exceeds highest calibration standard
B - Indicates compound found in associated blank
H - Indicates a Hold Time violation
P - Indicates a Greater than 25% diff. between 2 GC columns.

APL

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APL 1050518

AQUA PRO-TECH LABORATORIES

www.aquaprotechlabs.com

CONTAMINATION LEVEL

[ ] HIGH I [ ] MEDIUM [ ] LOW

CHAIN OF CUSTODY

CLIENT: ANS Consultants	SEND REPORT TO:
ADDRESS: 4405 South Clinton Ave. South Plainfield, NJ 07080	ADDRESS: 4405 South Clinton Ave. South Plainfield, NJ 07080
PHONE: 908-754-8383	PHONE: 908-754-8383
E-MAIL: ansgeoinc@yahoo.com nehapatel@ansconsultants.net	FAX: 908-754-8633
PROJECT NAME: 533 Wyndemere Ave, Ridgewood, NJ	SEND INVOICE TO: MR. ATUL SHAH, PE
PROJECT MGR: MR. ATUL SHAH, PE	ADDRESS: Same as above
PROJECT or PO #: ANS-5727	SAMPLED BY: Sunil Shah

Client: DJR Renovations, LLC.

TURN-AROUND TIME

[ ] APL STANDARD 2 week
[ ] RUSH (choose one below)
- ☐ 24 hr. date & time required
- ☐ 48 hr. date & time required
- ☐ 72 hr. date & time required
- ☒ 1 week

REPORT FORMAT
- ☒ RESULTS ONLY
- [ ] NJ DEP REDUCED
- [ ] NJ DEP FULL
- [ ] STATE FORMS/E2REPORTING

ELECTRONIC FORMAT
- ☒ EMAIL DELIVERY
- [ ] HAZSITE EDO
- ☒ EXCEL

PWSID# _____ SRP# _____

☒ Intermediate Reduced Deliverables

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type GRAB	Sample Type COMPT	Matrix	No. of Bottles	Preservative	Analysis Requested
1050518	ANS-5727-S1	5/10/2021	12:30 PM			S	2 - 8 oz jars, 3 Encores		TAL/TCL, pH, Chromium Hex. And Chromium Tri., EPH, VOCs, SVOC's, Metals, PCBs, Pesticides, Acrolein, Acrylonitrile, Benzidine, 1, 2-Diphenylhydrazine, N-Nitrosodimethylamine

RELINQUISHED BY (Print) Charmaine	DATE 5/11/21	RECEIVED BY (Print)	
Signature	Time 10:35 AM	Signature	
RELINQUISHED BY (Print)	DATE 5/11/21	RECEIVED BY (Print)	
Signature	Time 2:22 PM	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	
COMMENTS/SPECIAL INSTRUCTIONS		Cooler Temp. upon receipt at lab 4.0	

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07018 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

APPENDIX E

RIDGEWOOD WATER DEBOER AVENUE AND ROUTE 208 ANALYTICAL DATA

Work Order 1080405											
Lab: Aqua Pro-Tech Laboratories											
Client: _One Time Client - Conquest Contracting			NJDEP 2021 Soil Remediation Standards								
		Lab ID:	NJDEP	NJDEP	NJDEP	NJDEP	NJDEP	1080405-01			
		Client ID:	Residential	Residential	Non-Residential	Non-Residential	Migration to	DeBoer & 208 Ramp			
		Date Sampled:	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Ground Water	08/09/2021 11:00			
		Matrix:	SRS	SRS	SRS	SRS	SRS	Soil			
			May 2021	May 2021	May 2021	May 2021	May 2021				
CAS#	Compound	Type						Result	Qualifier	MDL	RL
Volatile Organics - GC/MS (mg/kg)											
71-55-6	1,1,1-Trichloroethane	TRG	160000	NA	NA	NA	0.2	0.000352	U	0.000352	0.00241
79-34-5	1,1,2,2-Tetrachloroethane	TRG	3.5	NA	18	NA	0.0069	0.000332	U	0.000332	0.00241
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	TRG	NA	NA	NA	NA	NA	0.00103	U	0.00103	0.00241
79-00-5	1,1,2-Trichloroethane	TRG	12	NA	64	NA	0.017	0.000406	U	0.000406	0.00241
75-34-3	1,1-Dichloroethane	TRG	120	NA	640	NA	0.24	0.000352	U	0.000352	0.00241
75-35-4	1,1-Dichloroethene	TRG	11	52	180	240	0.0069	0.000446	U	0.000446	0.00241
87-61-6	1,2,3-Trichlorobenzene	TRG						0.00052	U	0.00052	0.00241
120-82-1	1,2,4-Trichlorobenzene	TRG	780	94	13000	NA	0.52	0.000642	U	0.000642	0.00241
95-63-6	1,2,4-Trimethylbenzene	TRG	780	NA	13000	NA	NA	0.000332	U	0.000332	0.00241
96-12-8	1,2-Dibromo-3-chloropropane	TRG	0.87	0.026	4.5	0.12	0.005	0.000588	U	0.000588	0.00602
106-93-4	1,2-Dibromoethane	TRG	0.35	0.085	1.8	0.41	0.005	0.000304	U	0.000304	0.00241
95-50-1	1,2-Dichlorobenzene	TRG	6700	NA	110000	NA	11	0.000425	U	0.000425	0.00241
107-06-2	1,2-Dichloroethane	TRG	5.8	71	30	320	0.0095	0.00034	U	0.00034	0.00241
78-87-5	1,2-Dichloropropane	TRG	19	5.7	98	27	0.0058	0.000395	U	0.000395	0.00241
541-73-1	1,3-Dichlorobenzene	TRG	6700	NA	110000	NA	11	0.000177	U	0.000177	0.00241
106-46-7	1,4-Dichlorobenzene	TRG	780	NA	13000	NA	1.4	0.000347	U	0.000347	0.00241
78-93-3	2-Butanone	TRG	47000	NA	780000	NA	0.98	0.0398		0.000393	0.00602
591-78-6	2-Hexanone	TRG	390	1000	6500	NA	0.15	0.000225	U	0.000225	0.00241
108-10-1	4-Methyl-2-pentanone	TRG	NA	NA	NA	NA	NA	0.000301	U	0.000301	0.00241
67-64-1	Acetone	TRG	70000	NA	NA	NA	19	0.275		0.00073	0.00602
71-43-2	Benzene	TRG	3	2.2	16	11	0.0094	0.000219	U	0.000219	0.00241
74-97-5	Bromochloromethane	TRG						0.000444	U	0.000444	0.00241
75-27-4	Bromodichloromethane	TRG	11	NA	59	NA	0.005	0.000302	U	0.000302	0.00241
75-25-2	Bromoform	TRG	88	NA	460	NA	0.018	0.000423	U	0.000423	0.00241
74-83-9	Bromomethane	TRG	110	18	1800	82	0.043	0.000695	U	0.000695	0.00241
75-15-0	Carbon disulfide	TRG	NA	NA	NA	NA	3.7	0.000346	U	0.000346	0.00241
56-23-5	Carbon Tetrachloride	TRG	7.6	1.4	40	6.9	0.0075	0.000363	U	0.000363	0.00241
108-90-7	Chlorobenzene	TRG	510	NA	8400	NA	0.64	0.000349	U	0.000349	0.00241
124-48-1	Chlorodibromomethane	TRG	8.3	NA	43	NA	0.005	0.000296	U	0.000296	0.00241
75-00-3	Chloroethane	TRG	NA	NA	NA	NA	NA	0.000411	U	0.000411	0.00241
67-66-3	Chloroform	TRG	780	590	13000	NA	0.33	0.000405	U	0.000405	0.00241
74-87-3	Chloromethane	TRG	NA	270	NA	1200	NA	0.000927	U	0.000927	0.00241
156-59-2	cis-1,2-Dichloroethene	TRG	780	NA	13000	NA	0.35	0.000116	U	0.000116	0.00241
10061-01-5	cis-1,3-Dichloropropene	TRG	7	4.8	36	23	0.0063	0.000305	U	0.000305	0.00241
110-82-7	Cyclohexane	TRG	NA	NA	NA	NA	NA	0.000534	U	0.000534	0.00241
75-71-8	Dichlorodifluoromethane	TRG	16000	NA	260000	NA	38	0.000813	U	0.000813	0.00241
100-41-4	EthylBenzene	TRG	7800	10	130000	48	15	0.000326	U	0.000326	0.00241
98-82-8	Isopropylbenzene	TRG	7800	NA	130000	NA	22	0.000378	U	0.000378	0.00241
179601-23-1	m+p-Xylenes	TRG	12000	NA	190000	NA	19	0.000608	U	0.000608	0.00482
79-20-9	Methyl Acetate	TRG	78000	NA	NA	NA	22	0.000319	U	0.000319	0.00241
1634-04-4	Methyl tert-Butyl Ether	TRG	780	140	13000	650	0.25	0.000407	U	0.000407	0.00241
108-87-2	Methylcyclohexane	TRG						0.000388	U	0.000388	0.00241
75-09-2	Methylene Chloride	TRG	50	1400	260	NA	0.013	0.000724	U	0.000724	0.00241
95-47-6	o-Xylene	TRG	12000	NA	190000	NA	19	0.00031	U	0.00031	0.00241
100-42-5	Styrene	TRG	16000	NA	260000	NA	2.1	0.000344	U	0.000344	0.00241
75-65-0	tert-Butyl alcohol	TRG	1400	NA	23000	NA	0.32	0.00506	U	0.00506	0.0241
127-18-4	Tetrachloroethene	TRG	330	47	1700	NA	0.0086	0.000238	U	0.000238	0.00241
108-88-3	Toluene	TRG	6300	NA	100000	NA	7.8	0.000194	U	0.000194	0.00241
1330-20-7	Total Xylenes	TRG	12000	NA	190000	NA	19	0.00031	U	0.00031	0.00241
156-60-5	trans-1,2-Dichloroethene	TRG	1300	NA	22000	NA	0.56	0.000326	U	0.000326	0.00241
10061-02-6	trans-1,3-Dichloropropene	TRG	7	4.8	36	23	0.0063	0.00046	U	0.00046	0.00241
79-01-6	Trichloroethene	TRG	15	3	79	14	0.0065	0.000354	U	0.000354	0.00241
75-69-4	Trichlorofluoromethane	TRG	23000	NA	390000	NA	29	0.000277	U	0.000277	0.00241
75-01-4	Vinyl chloride	TRG	0.97	1.4	5	6.4	0.0067	0.000458	U	0.000458	0.00241
NA	Tentatively Identified Compounds	TIC Total						0.00	J		

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Specific Footnotes:

Work Order 1080405										
Lab: Aqua Pro-Tech Laboratories										
Client: _One Time Client - Conquest Contracting			NJDEP 2021 Soil Remediation Standards							
		Lab ID:	NJDEP	NJDEP	NJDEP	NJDEP	NJDEP	1080405-01		
		Client ID:	Residential	Residential	Non-Residential	Non-Residential	Migration to	DeBoer & 208 Ramp		
		Date Sampled:	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Ground Water	08/09/2021 11:00		
		Matrix:	SRS	SRS	SRS	SRS	SRS	Soil		
			May 2021	May 2021	May 2021	May 2021	May 2021			
CAS#	Compound	Type						Result	Qualifier	RL
Total Metals (mg/kg)										
7429-90-5	Aluminum	TRG	78000	NA	NA	NA	NA	9240		3.32
7440-36-0	Antimony	TRG	31	NA	520	NA	5.4	1.66	U	1.66
7440-38-2	Arsenic	TRG	19	1100	19	5200	19	5.12		1.66
7440-39-3	Barium	TRG	16000	870000	260000	NA	2100	61.5		0.664
7440-41-7	Beryllium	TRG	160	2000	2600	9300	0.7	0.340		0.0332
7440-43-9	Cadmium	TRG	71	2600	1100	12000	1.9	0.332	U	0.332
7440-70-2	Calcium	TRG						3690		33.2
7440-47-3	Chromium	TRG						10.5		0.332
7440-48-4	Cobalt	TRG	23	520	390	2500	90	4.39		0.266
7440-50-8	Copper	TRG	3100	NA	52000	NA	910	27.9		0.332
7439-89-6	Iron	TRG						13500		6.64
7439-92-1	Lead	TRG	400	NA	800	NA	90	66.1		1.66
7439-95-4	Magnesium	TRG						2210		66.4
7439-96-5	Manganese	TRG	1900	87000	31000	400000	NA	183		0.332
7439-97-6	Mercury	TRG	23	520000	390	NA	0.1	0.105		0.0552
7440-02-0	Nickel	TRG	1600	20000	26000	93000	48	8.67		0.166
7440-09-7	Potassium	TRG						405		133
7782-49-2	Selenium	TRG	390	NA	6500	NA	11	1.66	U	1.66
7440-22-4	Silver	TRG	390	NA	6500	NA	0.5	0.199	U	0.199
7440-23-5	Sodium	TRG						1710		66.4
7440-28-0	Thallium	TRG						1.66	U	1.66
7440-62-2	Vanadium	TRG	390	170000	6500	800000	NA	27.7		0.664
7440-66-6	Zinc	TRG	23000	NA	390000	NA	930	56.9		0.997

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Specific Footnotes:

Work Order 1080405										
Lab: Aqua Pro-Tech Laboratories										
Client: _One Time Client - Conquest Contracting			NJDEP 2021 Soil Remediation Standards							
		Lab ID:	NJDEP	NJDEP	NJDEP	NJDEP	NJDEP			1080405-01
		Client ID:	Residential	Residential	Non-Residential	Non-Residential	Migration to			DeBoer & 208 Ramp
		Date Sampled:	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Ground Water			08/09/2021 11:00
		Matrix:	SRS	SRS	SRS	SRS	SRS			Soil
			May 2021	May 2021	May 2021	May 2021	May 2021			
CAS#	Compound	Type								
Extractable Petroleum Hydrocarbons Category 2 (mg/kg)								Result	Qualifier	MDL
NJDEP-EPH2	Total EPH	TRG						245		13.5
PCBs (mg/kg)								Result	Qualifier	MDL
12674-11-2	Aroclor-1016	TRG	0.25	NA	1.1	NA	1.6	0.00597	U	0.00597
11104-28-2	Aroclor-1221	TRG	0.25	NA	1.1	NA	1.6	0.0117	U	0.0117
11141-16-5	Aroclor-1232	TRG	0.25	NA	1.1	NA	1.6	0.0149	U	0.0149
53469-21-9	Aroclor-1242	TRG	0.25	NA	1.1	NA	1.6	0.00875	U	0.00875
12672-29-6	Aroclor-1248	TRG	0.25	NA	1.1	NA	1.6	0.00915	U	0.00915
11097-69-1	Aroclor-1254	TRG	0.25	NA	1.1	NA	1.6	0.00718	U	0.00718
11096-82-5	Aroclor-1260	TRG	0.25	NA	1.1	NA	1.6	0.00557	U	0.00557
37324-23-5	Aroclor-1262	TRG	0.25	NA	1.1	NA	1.6	0.012	U	0.012
11100-14-4	Aroclor-1268	TRG	0.25	NA	1.1	NA	1.6	0.00538	U	0.00538
1336-36-3	Total PCBs	TRG	0.25	NA	1.1	NA	1.6	0.00416	U	0.00416
Pesticides (mg/kg)								Result	Qualifier	MDL
72-54-8	4,4'-DDD	TRG	2.3	NA	11	NA	0.47	0.000803	U	0.000803
72-55-9	4,4'-DDE	TRG	2	NA	11	NA	0.47	0.000959	U	0.000959
50-29-3	4,4'-DDT	TRG	1.9	NA	9.5	NA	0.67	0.0112		0.00124
309-00-2	Aldrin	TRG	0.041	NA	0.21	NA	0.13	0.000831	U	0.000831
319-84-6	alpha-BHC	TRG	0.086	NA	0.41	NA	0.0023	0.000522	U	0.000522
319-85-7	beta-BHC	TRG	0.3	NA	1.4	NA	0.0046	0.000838	U	0.000838
57-74-9	Chlordane	TRG	0.27	NA	1.4	NA	1.4	0.00078	U	0.00078
319-86-8	delta-BHC	TRG						0.000815	U	0.000815
60-57-1	Dieldrin	TRG	0.034	NA	0.16	NA	0.024	0.000917	U	0.000917
959-98-8	Endosulfan I	TRG	470	NA	7800	NA	NA	0.000828	U	0.000828
33213-65-9	Endosulfan II	TRG	470	NA	7800	NA	NA	0.000797	U	0.000797
1031-07-8	Endosulfan sulfate	TRG						0.00066	U	0.00066
72-20-8	Endrin	TRG	19	NA	270	NA	1.6	0.000606	U	0.000606
7421-93-4	Endrin aldehyde	TRG						0.000699	U	0.000699
53494-70-5	Endrin ketone	TRG						0.000618	U	0.000618
58-89-9	gamma-BHC (Lindane)	TRG	0.57	NA	2.8	NA	0.0035	0.000556	U	0.000556
76-44-8	Heptachlor	TRG	0.15	NA	0.81	NA	0.083	0.000469	U	0.000469
1024-57-3	Heptachlor Epoxide	TRG	0.076	NA	0.4	NA	0.081	0.000885	U	0.000885
72-43-5	Methoxychlor	TRG	320	NA	4600	NA	NA	0.000514	U	0.000514
8001-35-2	Toxaphene	TRG	0.49	NA	2.3	NA	6.2	0.0845	U	0.0845

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Work Order 1080405								
Lab: Aqua Pro-Tech Laboratories								
Client: _One Time Client - Conquest Contracting			NJDEP 2021 Soil Remediation Standards					
		Lab ID:	NJDEP	NJDEP	NJDEP	NJDEP	NJDEP	
		Client ID:	Residential	Residential	Non-Residential	Non-Residential	Migration to	
		Date Sampled:	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Ground Water	
		Matrix:	SRS	SRS	SRS	SRS	SRS	
			May 2021	May 2021	May 2021	May 2021	May 2021	
CAS#	Compound	Type						
Extractable Petroleum Hydrocarbons Category 2 (mg/kg)								RL
NJDEP-EPH2	Total EPH	TRG						27
PCBs (mg/kg)								RL
12674-11-2	Aroclor-1016	TRG	0.25	NA	1.1	NA	1.6	0.0445
11104-28-2	Aroclor-1221	TRG	0.25	NA	1.1	NA	1.6	0.0445
11141-16-5	Aroclor-1232	TRG	0.25	NA	1.1	NA	1.6	0.0445
53469-21-9	Aroclor-1242	TRG	0.25	NA	1.1	NA	1.6	0.0445
12672-29-6	Aroclor-1248	TRG	0.25	NA	1.1	NA	1.6	0.0445
11097-69-1	Aroclor-1254	TRG	0.25	NA	1.1	NA	1.6	0.0445
11096-82-5	Aroclor-1260	TRG	0.25	NA	1.1	NA	1.6	0.0445
37324-23-5	Aroclor-1262	TRG	0.25	NA	1.1	NA	1.6	0.0445
11100-14-4	Aroclor-1268	TRG	0.25	NA	1.1	NA	1.6	0.0445
1336-36-3	Total PCBs	TRG	0.25	NA	1.1	NA	1.6	0.0445
Pesticides (mg/kg)								RL
72-54-8	4,4'-DDD	TRG	2.3	NA	11	NA	0.47	0.00175
72-55-9	4,4'-DDE	TRG	2	NA	11	NA	0.47	0.00175
50-29-3	4,4'-DDT	TRG	1.9	NA	9.5	NA	0.67	0.00175
309-00-2	Aldrin	TRG	0.041	NA	0.21	NA	0.13	0.00175
319-84-6	alpha-BHC	TRG	0.086	NA	0.41	NA	0.0023	0.00175
319-85-7	beta-BHC	TRG	0.3	NA	1.4	NA	0.0046	0.00175
57-74-9	Chlordane	TRG	0.27	NA	1.4	NA	1.4	0.00175
319-86-8	delta-BHC	TRG						0.00175
60-57-1	Dieldrin	TRG	0.034	NA	0.16	NA	0.024	0.00175
959-98-8	Endosulfan I	TRG	470	NA	7800	NA	NA	0.00175
33213-65-9	Endosulfan II	TRG	470	NA	7800	NA	NA	0.00175
1031-07-8	Endosulfan sulfate	TRG						0.00175
72-20-8	Endrin	TRG	19	NA	270	NA	1.6	0.00175
7421-93-4	Endrin aldehyde	TRG						0.00175
53494-70-5	Endrin ketone	TRG						0.00175
58-89-9	gamma-BHC (Lindane)	TRG	0.57	NA	2.8	NA	0.0035	0.00175
76-44-8	Heptachlor	TRG	0.15	NA	0.81	NA	0.083	0.00175
1024-57-3	Heptachlor Epoxide	TRG	0.076	NA	0.4	NA	0.081	0.00175
72-43-5	Methoxychlor	TRG	320	NA	4600	NA	NA	0.00175
8001-35-2	Toxaphene	TRG	0.49	NA	2.3	NA	6.2	0.089

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Specific Footnotes:

Work Order 1080405											
Lab: Aqua Pro-Tech Laboratories											
Client: _One Time Client - Conquest Contracting			NJDEP 2021 Soil Remediation Standards								
		Lab ID:	NJDEP	NJDEP	NJDEP	NJDEP	NJDEP	1080405-01			
		Client ID:	Residential	Residential	Non-Residential	Non-Residential	Migration to	DeBoer & 208 Ramp			
		Date Sampled:	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Ground Water	08/09/2021 11:00			
		Matrix:	SRS	SRS	SRS	SRS	SRS	Soil			
			May 2021	May 2021	May 2021	May 2021	May 2021				
CAS#	Compound	Type						Result	Qualifier	MDL	RL
Semivolatile Organics - GC/MS (mg/kg)											
123-91-1	1,4-Dioxane	TRG	7	45	36	210	0.067	0.0101	U	0.0101	0.0898
58-90-2	2,3,4,6-Tetrachlorophenol	TRG	1900	NA	27000	NA	26	0.0553	U	0.0553	0.359
95-95-4	2,4,5-Trichlorophenol	TRG	6300	NA	91000	NA	68	0.0488	U	0.0488	0.359
88-06-2	2,4,6-Trichlorophenol	TRG	49	NA	230	NA	0.86	0.0225	U	0.0225	0.359
120-83-2	2,4-Dichlorophenol	TRG	190	NA	2700	NA	0.19	0.0362	U	0.0362	0.359
105-67-9	2,4-Dimethylphenol	TRG	1300	NA	18000	NA	2.3	0.0353	U	0.0353	0.359
51-28-5	2,4-Dinitrophenol	TRG	130	NA	1800	NA	0.33	0.0518	U	0.0518	1.8
121-14-2	2,4-Dinitrotoluene	TRG	0.8	NA	3.8	NA	0.27	0.0383	U	0.0383	0.359
606-20-2	2,6-Dinitrotoluene	TRG	0.8	NA	3.8	NA	0.27	0.0858	U	0.0858	0.359
91-58-7	2-Chloronaphthalene	TRG	4800	NA	67000	NA	NA	0.0413	U	0.0413	0.359
95-57-8	2-Chlorophenol	TRG	390	NA	6500	NA	0.76	0.0475	U	0.0475	0.359
91-57-6	2-Methylnaphthalene	TRG	240	NA	3300	NA	3.1	**0.197**	JD	0.0861	0.54
95-48-7	2-Methylphenol	TRG	320	NA	4600	NA	0.77	0.071	U	0.071	0.359
88-74-4	2-Nitroaniline	TRG						0.0289	U	0.0289	0.359
88-75-5	2-Nitrophenol	TRG						0.0399	U	0.0399	0.359
91-94-1	3,3'-Dichlorobenzidine	TRG	1.2	NA	5.7	NA	3.9	0.0378	U	0.0378	0.359
65794-96-9	3+4-Methylphenol	TRG						0.0658	U	0.0658	0.359
99-09-2	3-Nitroaniline	TRG						0.0666	U	0.0666	0.359
534-52-1	4,6-Dinitro-2-methylphenol	TRG						0.0677	U	0.0677	0.898
101-55-3	4-Bromophenyl-phenyl ether	TRG						0.0513	U	0.0513	0.359
59-50-7	4-Chloro-3-methylphenol	TRG						0.0567	U	0.0567	0.359
106-47-8	4-Chloroaniline	TRG	2.7	NA	13	NA	0.23	0.0126	U	0.0126	0.359
7005-72-3	4-Chlorophenyl phenyl ether	TRG						0.0194	U	0.0194	0.359
100-01-6	4-Nitroaniline	TRG	27	NA	130	NA	NA	0.18	U	0.18	0.359
100-02-7	4-Nitrophenol	TRG						0.023	U	0.023	0.359
83-32-9	Acenaphthene	TRG	3600	NA	50000	NA	NA	**0.258**	JD	0.0205	0.359
208-96-8	Acenaphthylene	TRG						**1.44**	D	0.0125	0.359
98-86-2	Acetophenone	TRG	7800	NA	130000	NA	3.6	0.0356	U	0.0356	0.359
120-12-7	Anthracene	TRG	18000	NA	250000	NA	NA	**1.05**	D	0.0521	0.359
1912-24-9	Atrazine	TRG	220	NA	3200	NA	0.33	0.0337	U	0.0337	0.359
100-52-7	Benzaldehyde	TRG	170	NA	910	NA	NA	0.11	U	0.11	0.359
56-55-3	Benzo(a)anthracene	TRG	5.1	78000	23	370000	0.71	**2.60**	D	0.0362	0.359
50-32-8	Benzo(a)pyrene	TRG	0.51	3500	2.3	16000	NA	**0.48**	D	0.0626	0.359
205-99-2	Benzo(b)fluoranthene	TRG	5.1	78000	23	370000	NA	**3.49**	D	0.0504	0.359
191-24-2	Benzo(g,h,i)perylene	TRG						**1.98**	D	0.0291	0.359
207-08-9	Benzo(k)fluoranthene	TRG	51	780000	230	NA	NA	**1.53**	D	0.0413	0.359
92-52-4	Biphenyl	TRG	87	NA	450	NA	NA	0.0316	U	0.0316	0.359
111-91-1	bis(2-chloroethoxy)methane	TRG	190	NA	2700	NA	NA	0.0496	U	0.0496	0.359
111-44-4	bis(2-chloroethyl)ether	TRG	0.63	NA	3.3	NA	0.33	0.0394	U	0.0394	0.359
108-60-1	bis(2-chloroisopropyl)ether	TRG	3100	NA	52000	NA	1.9	0.129	U	0.129	0.359
117-81-7	bis(2-ethylhexyl)phthalate	TRG	39	NA	180	NA	14	0.0718	U	0.0718	0.359
85-68-7	Butylbenzylphthalate	TRG	290	NA	1300	NA	29	0.0326	U	0.0326	0.359
105-60-2	Caprolactam	TRG	32000	290	460000	1300	16	0.0464	U	0.0464	0.359
86-74-8	Carbazole	TRG						**0.207**	JD	0.0691	0.898
218-01-9	Chrysene	TRG	510	NA	2300	NA	NA	**3.62**	D	0.0246	0.359
53-70-3	Dibenzo(a,h)anthracene	TRG	0.51	7800	2.3	37000	NA	**0.49**	D	0.0356	0.359
132-64-9	Dibenzofuran	TRG						**0.0841**	JD	0.0214	0.359
84-66-2	Diethylphthalate	TRG	51000	NA	730000	NA	44	0.0696	U	0.0696	0.359
131-11-3	Dimethylphthalate	TRG						**0.279**	JD	0.0223	0.359
84-74-2	Di-n-butylphthalate	TRG	6300	NA	91000	NA	NA	0.147	U	0.147	0.359
117-84-0	Di-n-octylphthalate	TRG	630	NA	9100	NA	NA	0.0737	U	0.0737	0.359
206-44-0	Fluoranthene	TRG	2400	NA	33000	NA	NA	**5.40**	D	0.0337	0.359
86-73-7	Fluorene	TRG	2400	NA	33000	NA	NA	**0.677**	D	0.0299	0.359
118-74-1	Hexachlorobenzene	TRG	0.43	NA	2.3	NA	0.17	0.0469	U	0.0469	0.359
87-68-3	Hexachlorobutadiene	TRG	8.9	NA	47	NA	0.17	0.172	U	**0.172**	**0.359**
77-47-4	Hexachlorocyclopentadiene	TRG	470	2.7	7800	NA	2.5	0.15	U	0.15	0.898
67-72-1	Hexachloroethane	TRG	17	NA	91	NA	0.17	0.0394	U	0.0394	0.359
193-39-5	Indeno(1,2,3-cd)pyrene	TRG	5.1	78000	23	370000	NA	**1.65**	D	0.0386	0.359
78-59-1	Isophorone	TRG	570	NA	2700	NA	0.23	0.0235	U	0.0235	0.359
91-20-3	Naphthalene	TRG	2500	5.7	34000	27	19	**0.114**	JD	0.0266	0.359
98-95-3	Nitrobenzene	TRG	160	7.5	2600	36	0.17	0.061	U	0.061	0.359
621-64-7	n-Nitroso-di-n-propylamine	TRG	0.17	NA	0.36	NA	0.17	0.0192	U	0.0192	0.359
86-30-6	n-Nitrosodiphenylamine	TRG	110	NA	520	NA	1.1	0.0766	U	0.0766	0.359
87-86-5	Pentachlorophenol	TRG	1	NA	4.4	NA	0.33	0.0494	U	0.0494	0.898
85-01-8	Phenanthrene	TRG						**4.97**	D	0.0472	0.359
108-95-2	Phenol	TRG	19000	39000	270000	NA	21	0.0291	U	0.0291	0.359
129-00-0	Pyrene	TRG	1800	NA	25000	NA	NA	**7.15**	D	0.0264	0.359
000084-65-1	9,10-Anthracenedione	TIC						**0.888**	JD		
000084-54-8	9,10-Anthracenedione, -methyl-isomer	TIC						**0.908**	JD		
010387-13-0	9,10-di(Chloromethyl)anthracene	TIC						**0.896**	JD		
000781-92-0	Anthracene, -dimethyl-isomer	TIC						**2.67**	JD		
000613-12-7	Anthracene, -methyl-isomer (01)	TIC						**2.30**	JD		
000613-12-7	Anthracene, -methyl-isomer (02)	TIC						**2.56**	JD		
000192-97-2	Benzo[e]pyrene	TIC						**2.04**	JD		
003351-28-8	Chrysene, -methyl-isomer	TIC						**0.925**	JD		
000112-95-8	Eicosane	TIC						**1.95**	JD		

Work Order 1080405											
Lab: Aqua Pro-Tech Laboratories											
Client: _One Time Client - Conquest Contracting			NJDEP 2021 Soil Remediation Standards								
		Lab ID:	NJDEP	NJDEP	NJDEP	NJDEP	NJDEP	1080405-01			
		Client ID:	Residential	Residential	Non-Residential	Non-Residential	Migration to	DeBoer & 208 Ramp			
		Date Sampled:	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Ground Water	08/09/2021 11:00			
		Matrix:	SRS	SRS	SRS	SRS	SRS	Soil			
			May 2021	May 2021	May 2021	May 2021	May 2021				
CAS#	Compound	Type									
000883-20-5	Phenanthrene, -methyl-isomer	TIC						**3.16**	JD		
003353-12-6	Pyrene, -methyl-isomer (01)	TIC						**1.45**	JD		
003442-78-2	Pyrene, -methyl-isomer (02)	TIC						**1.03**	JD		
003442-78-2	Pyrene, -methyl-isomer (03)	TIC						**0.851**	JD		
002381-21-7	Pyrene, -methyl-isomer (04)	TIC						**1.04**	JD		
	unknown	TIC						**0.898**	JD		
NA	Tentatively Identified Compounds	TIC Total						**23.6**	J		

Main Footnotes:

Standards listed are based upon APL's interpretation of the published documents.
APL assumes no liability for the interpretation and/or accuracy of the standards.

Qualifiers:

U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
D - Indicates result is based on a dilution
E - Concentration exceeds highest calibration standard
B - Indicates compound found in associated blank
H - Indicates a Hold Time violation
P - Indicates a Greater than 25% diff. between 2 GC columns.

Key:

	Reporting Limit exceeds Reg Standard
	Value Exceeded One or More of the Criteria
	Detected in Sample
	E Qualified, may require Dilution

Specific Footnotes:

APPENDIX F

WATER MAIN REPLACEMENT – JEFFERSON, WILLIAM, AND SLEM STREETS ANALYTICAL DATA

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

ACCREDITED IN ACCORDANCE WITH nelac

ANALYTICAL RESULTS

STANDARD DELIVERABLES FORMAT

APL WORK ORDER NUMBER: 0090585

Project: Water Main Replacement Jefferson & Salem

Brian Wood
Laboratory Director

All Results meet the requirements of the National Environmental Laboratory Accreditation Conference and/or State specific certifications as applicable.

Report Date: Sep 22, 2020

1275 Bloomfield Ave., Bldg. 6, Fairfield, New Jersey 07004
(t) 973.227.0422 (f) 973.227.2813 (w) www.aquaprotechlabs.com

NELAC National Environmental Laboratory Accreditation Conference
NJDEP #07010 / NYDOH #11634

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APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-01 (Soil)

Williams St

Collected	Received	Contact
09/14/2020 08:50	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Chromium, Hexavalent	SW 846 7196A	09/16/20 07:40	09/16/20 09:30	ND	U		0.445	mg/kg dry
Cyanide	SW 846 9014	09/15/20 13:13	09/16/20 15:25	ND	U		0.275	mg/kg dry
Percent Solids	**Gravimetric**	09/14/20 17:55	09/15/20 10:40	**91.1**				%
pH	**SW 846 9045D**	09/21/20 15:50	09/21/20 15:50	**7.13**			**0.0100**	pH Units
Redox Potential	**SM 2580 (mod)**	09/21/20 13:35	09/21/20 13:55	**184**			**-1000**	mV
Total Metals								
Aluminum	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**7160**			**2.73**	mg/kg dry
Antimony	SW 846 6010D	09/16/20 06:38	09/18/20 11:46	ND	U		1.37	mg/kg dry
Arsenic	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**2.46**			**1.37**	mg/kg dry
Barium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**33.1**			**0.546**	mg/kg dry
Beryllium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**0.309**			**0.0273**	mg/kg dry
Cadmium	SW 846 6010D	09/16/20 06:38	09/18/20 11:46	ND	U		0.273	mg/kg dry
Calcium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**899**			**27.3**	mg/kg dry
Chromium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**8.91**			**0.273**	mg/kg dry
Cobalt	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**4.18**			**0.219**	mg/kg dry
Copper	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**9.70**			**0.273**	mg/kg dry
Iron	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**11100**	**B**		**5.46**	mg/kg dry
Lead	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**4.15**			**1.37**	mg/kg dry
Magnesium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**1760**			**54.6**	mg/kg dry
Manganese	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**391**			**0.273**	mg/kg dry
Mercury	SW 846 7471B	09/16/20 07:00	09/16/20 14:34	ND	U		0.0527	mg/kg dry
Nickel	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**8.71**			**0.137**	mg/kg dry
Potassium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**713**			**109**	mg/kg dry
Selenium	SW 846 6010D	09/16/20 06:38	09/18/20 11:46	ND	U		1.37	mg/kg dry
Silver	SW 846 6010D	09/16/20 06:38	09/18/20 11:46	ND	U		0.546	mg/kg dry
Sodium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**135**			**54.6**	mg/kg dry
Thallium	SW 846 6010D	09/16/20 06:38	09/18/20 11:46	ND	U		1.37	mg/kg dry
Vanadium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**12.0**			**0.546**	mg/kg dry
Zinc	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**24.0**			**0.820**	mg/kg dry
EPH Category 2 Extractable Petroleum Hydrocarbons Category 2								
Total EPH	**NJDEP-EPH-CAT2**	09/16/20 15:55	09/21/20 11:45	**36.4**		**11.0**	**22.0**	mg/kg dry
BNA+25 Semivolatile Organics - GC/MS								

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND, U - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

Analytical Results Summary

Conquest Contracting Engineers

0090585-01 (Soil)

Williams St

Collected	Received	Contact
09/14/2020 08:50	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
BNA+25 Semivolatile Organics - GC/MS								
2,3,4,6-Tetrachlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0225	0.146	mg/kg dry
2,4,5-Trichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0199	0.146	mg/kg dry
2,4,6-Trichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00915	0.146	mg/kg dry
2,4-Dichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0147	0.146	mg/kg dry
2,4-Dimethylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0144	0.146	mg/kg dry
2,4-Dinitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0211	0.732	mg/kg dry
2,4-Dinitrotoluene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0156	0.146	mg/kg dry
2,6-Dinitrotoluene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0349	0.146	mg/kg dry
2-Chloronaphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0168	0.146	mg/kg dry
2-Chlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0193	0.146	mg/kg dry
2-Methylnaphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0350	0.220	mg/kg dry
2-Methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0289	0.146	mg/kg dry
2-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0118	0.146	mg/kg dry
2-Nitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0163	0.146	mg/kg dry
3,3'-Dichlorobenzidine	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0154	0.146	mg/kg dry
3+4-Methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0268	0.146	mg/kg dry
3-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0271	0.146	mg/kg dry
4,6-Dinitro-2-methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0276	0.366	mg/kg dry
4-Bromophenyl-phenyl ether	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0209	0.146	mg/kg dry
4-Chloro-3-methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0231	0.146	mg/kg dry
4-Chloroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00512	0.146	mg/kg dry
4-Chlorophenyl phenyl ether	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00790	0.146	mg/kg dry
4-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0731	0.146	mg/kg dry
4-Nitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00936	0.146	mg/kg dry
Acenaphthene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00833	0.146	mg/kg dry
Acenaphthylene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00508	0.146	mg/kg dry
Acetophenone	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0145	0.146	mg/kg dry
Anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0212	0.146	mg/kg dry
Atrazine	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0137	0.146	mg/kg dry
Benzaldehyde	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0449	0.146	mg/kg dry
Benzo(a)anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0147	0.146	mg/kg dry
Benzo(a)pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0255	0.146	mg/kg dry
Benzo(b)fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0205	0.146	mg/kg dry
Benzo(g,h,i)perylene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0119	0.146	mg/kg dry
Benzo(k)fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0168	0.146	mg/kg dry
Biphenyl	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0128	0.146	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND, U - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

Analytical Results Summary

Conquest Contracting Engineers

0090585-01 (Soil)

Williams St

Collected	Received	Contact
09/14/2020 08:50	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
BNA+25 Semivolatile Organics - GC/MS								
bis(2-chloroethoxy)methane	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0202	0.146	mg/kg dry
bis(2-chloroethyl)ether	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0160	0.146	mg/kg dry
bis(2-chloroisopropyl)ether	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0526	0.146	mg/kg dry
bis(2-ethylhexyl)phthalate	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0292	0.146	mg/kg dry
Butylbenzylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0133	0.146	mg/kg dry
Caprolactam	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0189	0.146	mg/kg dry
Carbazole	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0281	0.366	mg/kg dry
Chrysene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0100	0.146	mg/kg dry
Dibenzo(a,h)anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0145	0.146	mg/kg dry
Dibenzofuran	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00871	0.146	mg/kg dry
Diethylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0283	0.146	mg/kg dry
Dimethylphthalate	**SW 846 8270D**	09/17/20 08:04	09/18/20 21:48	**0.0869**	**J**	**0.00907**	**0.146**	mg/kg dry
Di-n-butylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0597	0.146	mg/kg dry
Di-n-octylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0300	0.146	mg/kg dry
Fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0137	0.146	mg/kg dry
Fluorene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0122	0.146	mg/kg dry
Hexachlorobenzene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0191	0.146	mg/kg dry
Hexachlorobutadiene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0702	0.146	mg/kg dry
Hexachlorocyclopentadiene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0609	0.366	mg/kg dry
Hexachloroethane	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0160	0.146	mg/kg dry
Indeno(1,2,3-cd)pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0157	0.146	mg/kg dry
Isophorone	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00958	0.146	mg/kg dry
Naphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0108	0.146	mg/kg dry
Nitrobenzene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0248	0.146	mg/kg dry
n-Nitroso-di-n-propylamine	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00783	0.146	mg/kg dry
n-Nitrosodiphenylamine	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0312	0.146	mg/kg dry
Pentachlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0201	0.366	mg/kg dry
Phenanthrene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0192	0.146	mg/kg dry
Phenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0119	0.146	mg/kg dry
Pyrene	**SW 846 8270D**	09/17/20 08:04	09/18/20 21:48	**0.0408**	**J**	**0.0108**	**0.146**	mg/kg dry
Pesticides								
4,4'-DDD	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000653	0.00143	mg/kg dry
4,4'-DDE	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000781	0.00143	mg/kg dry
4,4'-DDT	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.00101	0.00143	mg/kg dry
Aldrin	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000676	0.00143	mg/kg dry

FootNotes

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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
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APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-01 (Soil)

Williams St

Collected	Received	Contact
09/14/2020 08:50	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
Pesticides								
alpha-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000425	0.00143	mg/kg dry
beta-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000682	0.00143	mg/kg dry
Chlordane	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000635	0.00143	mg/kg dry
delta-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000663	0.00143	mg/kg dry
Dieldrin	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000747	0.00143	mg/kg dry
Endosulfan I	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000674	0.00143	mg/kg dry
Endosulfan II	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000649	0.00143	mg/kg dry
Endosulfan sulfate	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000537	0.00143	mg/kg dry
Endrin	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000493	0.00143	mg/kg dry
Endrin aldehyde	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000569	0.00143	mg/kg dry
Endrin ketone	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000503	0.00143	mg/kg dry
gamma-BHC (Lindane)	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000452	0.00143	mg/kg dry
Heptachlor	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000382	0.00143	mg/kg dry
Heptachlor Epoxide	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000720	0.00143	mg/kg dry
Methoxychlor	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000418	0.00143	mg/kg dry
Toxaphene	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.0688	0.0725	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00486	0.0362	mg/kg dry
Aroclor-1221	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00956	0.0362	mg/kg dry
Aroclor-1232	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.0122	0.0362	mg/kg dry
Aroclor-1242	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00712	0.0362	mg/kg dry
Aroclor-1248	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00745	0.0362	mg/kg dry
Aroclor-1254	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00585	0.0362	mg/kg dry
Aroclor-1260	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00454	0.0362	mg/kg dry
Aroclor-1262	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00975	0.0362	mg/kg dry
Aroclor-1268	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00438	0.0362	mg/kg dry
Total PCBs	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00338	0.0362	mg/kg dry
VO+15 Volatile Organics - GC/MS								
1,1,1-Trichloroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000321	0.00220	mg/kg dry
1,1,2,2-Tetrachloroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000303	0.00220	mg/kg dry
1,1,2-Trichloro-1,2,2 Trifluoroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000940	0.00220	mg/kg dry
1,1,2-Trichloroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000370	0.00220	mg/kg dry
1,1-Dichloroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000321	0.00220	mg/kg dry

FootNotes

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MDL - Minimum detection limit
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D - Indicates result is based on a dilution
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APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-01 (Soil)

Williams St

Collected	Received	Contact
09/14/2020 08:50	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
VO+15 Volatile Organics - GC/MS								
1,1-Dichloroethene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000406	0.00220	mg/kg dry
1,2,3-Trichlorobenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000474	0.00220	mg/kg dry
1,2,4-Trichlorobenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000585	0.00220	mg/kg dry
1,2,4-Trimethylbenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000303	0.00220	mg/kg dry
1,2-Dibromo-3-chloropropane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000536	0.00549	mg/kg dry
1,2-Dibromoethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000277	0.00220	mg/kg dry
1,2-Dichlorobenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000388	0.00220	mg/kg dry
1,2-Dichloroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000310	0.00220	mg/kg dry
1,2-Dichloropropane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000360	0.00220	mg/kg dry
1,3-Dichlorobenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000161	0.00220	mg/kg dry
1,4-Dichlorobenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000316	0.00220	mg/kg dry
2-Butanone	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000358	0.00549	mg/kg dry
2-Hexanone	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000205	0.00220	mg/kg dry
4-Methyl-2-pentanone	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000275	0.00220	mg/kg dry
Acetone	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000665	0.00549	mg/kg dry
Benzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000200	0.00220	mg/kg dry
Bromochloromethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000405	0.00220	mg/kg dry
Bromodichloromethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000276	0.00220	mg/kg dry
Bromoform	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000385	0.00220	mg/kg dry
Bromomethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000634	0.00220	mg/kg dry
Carbon disulfide	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000315	0.00220	mg/kg dry
Carbon Tetrachloride	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000331	0.00220	mg/kg dry
Chlorobenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000318	0.00220	mg/kg dry
Chlorodibromomethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000270	0.00220	mg/kg dry
Chloroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000374	0.00220	mg/kg dry
Chloroform	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000369	0.00220	mg/kg dry
Chloromethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000846	0.00220	mg/kg dry
cis-1,2-Dichloroethene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000106	0.00220	mg/kg dry
cis-1,3-Dichloropropene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000278	0.00220	mg/kg dry
Cyclohexane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000486	0.00220	mg/kg dry
Dichlorodifluoromethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000741	0.00220	mg/kg dry
EthylBenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000298	0.00220	mg/kg dry
Isopropylbenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000345	0.00220	mg/kg dry
m+p-Xylenes	**SW 846 8260C**	09/17/20 17:26	09/17/20 17:26	**0.00127**	**J**	**0.000555**	**0.00439**	mg/kg dry
Methyl Acetate	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000291	0.00220	mg/kg dry
Methyl tert-Butyl Ether	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000371	0.00220	mg/kg dry

FootNotes

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P - Greater than 25% diff. between 2 GC columns.
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Analytical Results Summary

Conquest Contracting Engineers

0090585-01 (Soil)

Williams St

Collected	Received	Contact
09/14/2020 08:50	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
VO+15 Volatile Organics - GC/MS								
Methylcyclohexane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000354	0.00220	mg/kg dry
Methylene Chloride	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000660	0.00220	mg/kg dry
o-Xylene	**SW 846 8260C**	09/17/20 17:26	09/17/20 17:26	**0.000734**	**J**	**0.000282**	**0.00220**	mg/kg dry
Styrene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000314	0.00220	mg/kg dry
tert-Butyl alcohol	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.00461	0.0220	mg/kg dry
Tetrachloroethene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000217	0.00220	mg/kg dry
Toluene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000177	0.00220	mg/kg dry
Total Xylenes	**SW 846 8260C**	09/17/20 17:26	09/17/20 17:26	**0.00201**	**J**	**0.000282**	**0.00220**	mg/kg dry
trans-1,2-Dichloroethene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000298	0.00220	mg/kg dry
trans-1,3-Dichloropropene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000419	0.00220	mg/kg dry
Trichloroethene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000323	0.00220	mg/kg dry
Trichlorofluoromethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000253	0.00220	mg/kg dry
Vinyl chloride	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000417	0.00220	mg/kg dry

FootNotes

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APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-02 (Soil)

Jefferson St

Collected	Received	Contact
09/14/2020 11:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Chromium, Hexavalent	SW 846 7196A	09/16/20 07:40	09/16/20 09:30	ND	U		0.431	mg/kg dry
Cyanide	SW 846 9014	09/15/20 13:13	09/16/20 15:25	ND	U		0.267	mg/kg dry
Percent Solids	**Gravimetric**	09/14/20 17:55	09/15/20 10:40	**91.4**				%
pH	**SW 846 9045D**	09/21/20 15:50	09/21/20 15:50	**6.72**			**0.0100**	pH Units
Redox Potential	**SM 2580 (mod)**	09/21/20 13:35	09/21/20 13:55	**158**			**-1000**	mV
Total Metals								
Aluminum	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**7350**			**2.76**	mg/kg dry
Antimony	SW 846 6010D	09/16/20 06:38	09/18/20 11:49	ND	U		1.38	mg/kg dry
Arsenic	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**2.13**			**1.38**	mg/kg dry
Barium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**34.8**			**0.553**	mg/kg dry
Beryllium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**0.338**			**0.0276**	mg/kg dry
Cadmium	SW 846 6010D	09/16/20 06:38	09/18/20 11:49	ND	U		0.276	mg/kg dry
Calcium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**887**			**27.6**	mg/kg dry
Chromium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**15.1**			**0.276**	mg/kg dry
Cobalt	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**3.54**			**0.221**	mg/kg dry
Copper	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**7.13**			**0.276**	mg/kg dry
Iron	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**12300**	**B**		**5.53**	mg/kg dry
Lead	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**4.26**			**1.38**	mg/kg dry
Magnesium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**2270**			**55.3**	mg/kg dry
Manganese	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**147**			**0.276**	mg/kg dry
Mercury	SW 846 7471B	09/17/20 07:00	09/17/20 13:00	ND	U		0.0479	mg/kg dry
Nickel	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**11.9**			**0.138**	mg/kg dry
Potassium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**633**			**111**	mg/kg dry
Selenium	SW 846 6010D	09/16/20 06:38	09/18/20 11:49	ND	U		1.38	mg/kg dry
Silver	SW 846 6010D	09/16/20 06:38	09/18/20 11:49	ND	U		0.553	mg/kg dry
Sodium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**175**			**55.3**	mg/kg dry
Thallium	SW 846 6010D	09/16/20 06:38	09/18/20 11:49	ND	U		1.38	mg/kg dry
Vanadium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**13.0**			**0.553**	mg/kg dry
Zinc	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**22.2**			**0.829**	mg/kg dry
EPH Category 2 Extractable Petroleum Hydrocarbons Category 2								
Total EPH	**NJDEP-EPH-CAT2**	09/16/20 15:55	09/21/20 12:03	**22.3**		**10.9**	**21.9**	mg/kg dry
BNA+25 Semivolatile Organics - GC/MS								

FootNotes

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APL
AQUA PRO-TECH LABORATORIES
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Analytical Results Summary

Conquest Contracting Engineers

0090585-02 (Soil)

Jefferson St

Collected	Received	Contact
09/14/2020 11:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
BNA+25 Semivolatile Organics - GC/MS								
2,3,4,6-Tetrachlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0224	0.146	mg/kg dry
2,4,5-Trichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0198	0.146	mg/kg dry
2,4,6-Trichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00911	0.146	mg/kg dry
2,4-Dichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0147	0.146	mg/kg dry
2,4-Dimethylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0143	0.146	mg/kg dry
2,4-Dinitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0210	0.730	mg/kg dry
2,4-Dinitrotoluene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0155	0.146	mg/kg dry
2,6-Dinitrotoluene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0348	0.146	mg/kg dry
2-Chloronaphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0167	0.146	mg/kg dry
2-Chlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0193	0.146	mg/kg dry
2-Methylnaphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0349	0.219	mg/kg dry
2-Methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0288	0.146	mg/kg dry
2-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0117	0.146	mg/kg dry
2-Nitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0162	0.146	mg/kg dry
3,3'-Dichlorobenzidine	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0153	0.146	mg/kg dry
3+4-Methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0267	0.146	mg/kg dry
3-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0270	0.146	mg/kg dry
4,6-Dinitro-2-methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0275	0.364	mg/kg dry
4-Bromophenyl-phenyl ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0208	0.146	mg/kg dry
4-Chloro-3-methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0230	0.146	mg/kg dry
4-Chloroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00510	0.146	mg/kg dry
4-Chlorophenyl phenyl ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00787	0.146	mg/kg dry
4-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0729	0.146	mg/kg dry
4-Nitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00932	0.146	mg/kg dry
Acenaphthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00830	0.146	mg/kg dry
Acenaphthylene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00507	0.146	mg/kg dry
Acetophenone	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0144	0.146	mg/kg dry
Anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0211	0.146	mg/kg dry
Atrazine	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0137	0.146	mg/kg dry
Benzaldehyde	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0448	0.146	mg/kg dry
Benzo(a)anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0147	0.146	mg/kg dry
Benzo(a)pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0254	0.146	mg/kg dry
Benzo(b)fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0205	0.146	mg/kg dry
Benzo(g,h,i)perylene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0118	0.146	mg/kg dry
Benzo(k)fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0167	0.146	mg/kg dry
Biphenyl	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0128	0.146	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND, U - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

Analytical Results Summary

Conquest Contracting Engineers

0090585-02 (Soil)

Jefferson St

Collected	Received	Contact
09/14/2020 11:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
BNA+25 Semivolatile Organics - GC/MS								
bis(2-chloroethoxy)methane	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0201	0.146	mg/kg dry
bis(2-chloroethyl)ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0160	0.146	mg/kg dry
bis(2-chloroisopropyl)ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0524	0.146	mg/kg dry
bis(2-ethylhexyl)phthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0291	0.146	mg/kg dry
Butylbenzylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0132	0.146	mg/kg dry
Caprolactam	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0188	0.146	mg/kg dry
Carbazole	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0280	0.364	mg/kg dry
Chrysene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00998	0.146	mg/kg dry
Dibenzo(a,h)anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0144	0.146	mg/kg dry
Dibenzofuran	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00868	0.146	mg/kg dry
Diethylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0282	0.146	mg/kg dry
Dimethylphthalate	**SW 846 8270D**	09/17/20 08:04	09/18/20 22:17	**0.0561**	**J**	**0.00904**	**0.146**	mg/kg dry
Di-n-butylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0595	0.146	mg/kg dry
Di-n-octylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0299	0.146	mg/kg dry
Fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0137	0.146	mg/kg dry
Fluorene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0121	0.146	mg/kg dry
Hexachlorobenzene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0190	0.146	mg/kg dry
Hexachlorobutadiene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0699	0.146	mg/kg dry
Hexachlorocyclopentadiene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0607	0.364	mg/kg dry
Hexachloroethane	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0160	0.146	mg/kg dry
Indeno(1,2,3-cd)pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0156	0.146	mg/kg dry
Isophorone	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00954	0.146	mg/kg dry
Naphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0108	0.146	mg/kg dry
Nitrobenzene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0247	0.146	mg/kg dry
n-Nitroso-di-n-propylamine	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00780	0.146	mg/kg dry
n-Nitrosodiphenylamine	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0311	0.146	mg/kg dry
Pentachlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0200	0.364	mg/kg dry
Phenanthrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0191	0.146	mg/kg dry
Phenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0118	0.146	mg/kg dry
Pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0107	0.146	mg/kg dry
Pesticides								
4,4'-DDD	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000651	0.00142	mg/kg dry
4,4'-DDE	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000778	0.00142	mg/kg dry
4,4'-DDT	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.00100	0.00142	mg/kg dry
Aldrin	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000674	0.00142	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND, U - Indicates compound analyzed for but not detected
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B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
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Analytical Results Summary

Conquest Contracting Engineers

0090585-02 (Soil)

Jefferson St

Collected	Received	Contact
09/14/2020 11:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
Pesticides								
alpha-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000423	0.00142	mg/kg dry
beta-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000679	0.00142	mg/kg dry
Chlordane	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000632	0.00142	mg/kg dry
delta-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000661	0.00142	mg/kg dry
Dieldrin	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000744	0.00142	mg/kg dry
Endosulfan I	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000672	0.00142	mg/kg dry
Endosulfan II	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000647	0.00142	mg/kg dry
Endosulfan sulfate	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000535	0.00142	mg/kg dry
Endrin	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000491	0.00142	mg/kg dry
Endrin aldehyde	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000567	0.00142	mg/kg dry
Endrin ketone	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000501	0.00142	mg/kg dry
gamma-BHC (Lindane)	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000451	0.00142	mg/kg dry
Heptachlor	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000381	0.00142	mg/kg dry
Heptachlor Epoxide	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000718	0.00142	mg/kg dry
Methoxychlor	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000417	0.00142	mg/kg dry
Toxaphene	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.0685	0.0722	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00484	0.0361	mg/kg dry
Aroclor-1221	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00952	0.0361	mg/kg dry
Aroclor-1232	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.0121	0.0361	mg/kg dry
Aroclor-1242	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00710	0.0361	mg/kg dry
Aroclor-1248	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00742	0.0361	mg/kg dry
Aroclor-1254	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00583	0.0361	mg/kg dry
Aroclor-1260	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00452	0.0361	mg/kg dry
Aroclor-1262	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00972	0.0361	mg/kg dry
Aroclor-1268	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00437	0.0361	mg/kg dry
Total PCBs	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00337	0.0361	mg/kg dry
VO+15 Volatile Organics - GC/MS								
1,1,1-Trichloroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000319	0.00219	mg/kg dry
1,1,2,2-Tetrachloroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000302	0.00219	mg/kg dry
1,1,2-Trichloro-1,2,2 Trifluoroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000937	0.00219	mg/kg dry
1,1,2-Trichloroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000369	0.00219	mg/kg dry
1,1-Dichloroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000319	0.00219	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND, U - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
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Analytical Results Summary

Conquest Contracting Engineers

0090585-02 (Soil)

Jefferson St

Collected	Received	Contact
09/14/2020 11:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
VO+15 Volatile Organics - GC/MS								
1,1-Dichloroethene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000405	0.00219	mg/kg dry
1,2,3-Trichlorobenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000473	0.00219	mg/kg dry
1,2,4-Trichlorobenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000583	0.00219	mg/kg dry
1,2,4-Trimethylbenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000302	0.00219	mg/kg dry
1,2-Dibromo-3-chloropropane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000534	0.00547	mg/kg dry
1,2-Dibromoethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000276	0.00219	mg/kg dry
1,2-Dichlorobenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000386	0.00219	mg/kg dry
1,2-Dichloroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000309	0.00219	mg/kg dry
1,2-Dichloropropane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000359	0.00219	mg/kg dry
1,3-Dichlorobenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000161	0.00219	mg/kg dry
1,4-Dichlorobenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000315	0.00219	mg/kg dry
2-Butanone	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000357	0.00547	mg/kg dry
2-Hexanone	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000205	0.00219	mg/kg dry
4-Methyl-2-pentanone	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000274	0.00219	mg/kg dry
Acetone	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000663	0.00547	mg/kg dry
Benzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000199	0.00219	mg/kg dry
Bromochloromethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000404	0.00219	mg/kg dry
Bromodichloromethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000275	0.00219	mg/kg dry
Bromoform	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000384	0.00219	mg/kg dry
Bromomethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000631	0.00219	mg/kg dry
Carbon disulfide	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000314	0.00219	mg/kg dry
Carbon Tetrachloride	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000329	0.00219	mg/kg dry
Chlorobenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000317	0.00219	mg/kg dry
Chlorodibromomethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000269	0.00219	mg/kg dry
Chloroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000373	0.00219	mg/kg dry
Chloroform	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000368	0.00219	mg/kg dry
Chloromethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000843	0.00219	mg/kg dry
cis-1,2-Dichloroethene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000106	0.00219	mg/kg dry
cis-1,3-Dichloropropene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000277	0.00219	mg/kg dry
Cyclohexane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000485	0.00219	mg/kg dry
Dichlorodifluoromethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000739	0.00219	mg/kg dry
EthylBenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000297	0.00219	mg/kg dry
Isopropylbenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000344	0.00219	mg/kg dry
m+p-Xylenes	**SW 846 8260C**	09/17/20 17:56	09/17/20 17:56	**0.00115**	**J**	**0.000553**	**0.00438**	mg/kg dry
Methyl Acetate	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000290	0.00219	mg/kg dry
Methyl tert-Butyl Ether	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000370	0.00219	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND, U - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

Analytical Results Summary

Conquest Contracting Engineers

0090585-02 (Soil)

Jefferson St

Collected	Received	Contact
09/14/2020 11:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
VO+15 Volatile Organics - GC/MS								
Methylcyclohexane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000352	0.00219	mg/kg dry
Methylene Chloride	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000658	0.00219	mg/kg dry
o-Xylene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000281	0.00219	mg/kg dry
Styrene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000313	0.00219	mg/kg dry
tert-Butyl alcohol	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.00460	0.0219	mg/kg dry
Tetrachloroethene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000217	0.00219	mg/kg dry
Toluene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000176	0.00219	mg/kg dry
Total Xylenes	**SW 846 8260C**	09/17/20 17:56	09/17/20 17:56	**0.00115**	**J**	**0.000281**	**0.00219**	mg/kg dry
trans-1,2-Dichloroethene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000297	0.00219	mg/kg dry
trans-1,3-Dichloropropene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000418	0.00219	mg/kg dry
Trichloroethene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000322	0.00219	mg/kg dry
Trichlorofluoromethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000252	0.00219	mg/kg dry
Vinyl chloride	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000416	0.00219	mg/kg dry
VO+15 Volatile Organics - GC/MS TIC								
Azuleno[4,5-b]furan-2(3H)-one, 9-(acetyl	**SW 846 8260C**	09/17/20 17:56	09/17/20 17:56	**0.0188**	**J**			mg/kg dry
				TIC Total: 0.0188				

FootNotes

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P - Greater than 25% diff. between 2 GC columns.
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APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-03 (Soil)

Salem St

Collected	Received	Contact
09/14/2020 13:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Chromium, Hexavalent	SW 846 7196A	09/16/20 07:40	09/16/20 09:30	ND	U		0.481	mg/kg dry
Cyanide	SW 846 9014	09/15/20 13:13	09/16/20 15:25	ND	U		0.307	mg/kg dry
Percent Solids	**Gravimetric**	09/14/20 17:55	09/15/20 10:40	**83.9**				%
pH	**SW 846 9045D**	09/21/20 15:50	09/21/20 15:50	**6.37**			**0.0100**	pH Units
Redox Potential	**SM 2580 (mod)**	09/21/20 13:35	09/21/20 13:55	**116**			**-1000**	mV
Total Metals								
Aluminum	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**9440**			**3.00**	mg/kg dry
Antimony	SW 846 6010D	09/16/20 06:38	09/18/20 11:52	ND	U		1.50	mg/kg dry
Arsenic	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**3.15**			**1.50**	mg/kg dry
Barium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**77.9**			**0.599**	mg/kg dry
Beryllium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**0.465**			**0.0300**	mg/kg dry
Cadmium	SW 846 6010D	09/16/20 06:38	09/18/20 11:52	ND	U		0.300	mg/kg dry
Calcium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**1270**			**30.0**	mg/kg dry
Chromium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**15.3**			**0.300**	mg/kg dry
Cobalt	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**6.23**			**0.240**	mg/kg dry
Copper	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**7.73**			**0.300**	mg/kg dry
Iron	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**13500**	**B**		**5.99**	mg/kg dry
Lead	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**8.00**			**1.50**	mg/kg dry
Magnesium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**2000**			**59.9**	mg/kg dry
Manganese	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**713**			**0.300**	mg/kg dry
Mercury	**SW 846 7471B**	09/17/20 07:00	09/17/20 13:04	**0.0623**			**0.0504**	mg/kg dry
Nickel	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**11.4**			**0.150**	mg/kg dry
Potassium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**566**			**120**	mg/kg dry
Selenium	SW 846 6010D	09/16/20 06:38	09/18/20 11:52	ND	U		1.50	mg/kg dry
Silver	SW 846 6010D	09/16/20 06:38	09/18/20 11:52	ND	U		0.599	mg/kg dry
Sodium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**252**			**59.9**	mg/kg dry
Thallium	SW 846 6010D	09/16/20 06:38	09/18/20 11:52	ND	U		1.50	mg/kg dry
Vanadium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**19.8**			**0.599**	mg/kg dry
Zinc	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**30.0**			**0.899**	mg/kg dry
EPH Category 2 Extractable Petroleum Hydrocarbons Category 2								
Total EPH	**NJDEP-EPH-CAT2**	09/16/20 15:55	09/21/20 12:20	**25.5**		**11.9**	**23.8**	mg/kg dry
BNA+25 Semivolatile Organics - GC/MS								

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APL
AQUA PRO-TECH LABORATORIES
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Analytical Results Summary

Conquest Contracting Engineers

0090585-03 (Soil)

Salem St

Collected	Received	Contact
09/14/2020 13:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
BNA+25 Semivolatile Organics - GC/MS								
2,3,4,6-Tetrachlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0244	0.159	mg/kg dry
2,4,5-Trichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0216	0.159	mg/kg dry
2,4,6-Trichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00993	0.159	mg/kg dry
2,4-Dichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0160	0.159	mg/kg dry
2,4-Dimethylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0156	0.159	mg/kg dry
2,4-Dinitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0229	0.795	mg/kg dry
2,4-Dinitrotoluene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0169	0.159	mg/kg dry
2,6-Dinitrotoluene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0379	0.159	mg/kg dry
2-Chloronaphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0182	0.159	mg/kg dry
2-Chlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0210	0.159	mg/kg dry
2-Methylnaphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0380	0.238	mg/kg dry
2-Methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0314	0.159	mg/kg dry
2-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0128	0.159	mg/kg dry
2-Nitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0176	0.159	mg/kg dry
3,3'-Dichlorobenzidine	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0167	0.159	mg/kg dry
3+4-Methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0291	0.159	mg/kg dry
3-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0294	0.159	mg/kg dry
4,6-Dinitro-2-methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0299	0.397	mg/kg dry
4-Bromophenyl-phenyl ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0227	0.159	mg/kg dry
4-Chloro-3-methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0250	0.159	mg/kg dry
4-Chloroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00556	0.159	mg/kg dry
4-Chlorophenyl phenyl ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00857	0.159	mg/kg dry
4-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0794	0.159	mg/kg dry
4-Nitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0102	0.159	mg/kg dry
Acenaphthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00905	0.159	mg/kg dry
Acenaphthylene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00552	0.159	mg/kg dry
Acetophenone	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0157	0.159	mg/kg dry
Anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0230	0.159	mg/kg dry
Atrazine	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0149	0.159	mg/kg dry
Benzaldehyde	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0488	0.159	mg/kg dry
Benzo(a)anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0160	0.159	mg/kg dry
Benzo(a)pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0277	0.159	mg/kg dry
Benzo(b)fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0223	0.159	mg/kg dry
Benzo(g,h,i)perylene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0129	0.159	mg/kg dry
Benzo(k)fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0182	0.159	mg/kg dry
Biphenyl	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0139	0.159	mg/kg dry

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Analytical Results Summary

Conquest Contracting Engineers

0090585-03 (Soil)

Salem St

Collected	Received	Contact
09/14/2020 13:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
BNA+25 Semivolatile Organics - GC/MS								
bis(2-chloroethoxy)methane	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0219	0.159	mg/kg dry
bis(2-chloroethyl)ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0174	0.159	mg/kg dry
bis(2-chloroisopropyl)ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0571	0.159	mg/kg dry
bis(2-ethylhexyl)phthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0317	0.159	mg/kg dry
Butylbenzylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0144	0.159	mg/kg dry
Caprolactam	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0205	0.159	mg/kg dry
Carbazole	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0305	0.397	mg/kg dry
Chrysene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0109	0.159	mg/kg dry
Dibenzo(a,h)anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0157	0.159	mg/kg dry
Dibenzofuran	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00945	0.159	mg/kg dry
Diethylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0308	0.159	mg/kg dry
Dimethylphthalate	**SW 846 8270D**	09/17/20 08:04	09/18/20 22:45	**0.110**	**J**	**0.00985**	**0.159**	mg/kg dry
Di-n-butylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0649	0.159	mg/kg dry
Di-n-octylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0325	0.159	mg/kg dry
Fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0149	0.159	mg/kg dry
Fluorene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0132	0.159	mg/kg dry
Hexachlorobenzene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0207	0.159	mg/kg dry
Hexachlorobutadiene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0762	0.159	mg/kg dry
Hexachlorocyclopentadiene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0662	0.397	mg/kg dry
Hexachloroethane	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0174	0.159	mg/kg dry
Indeno(1,2,3-cd)pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0170	0.159	mg/kg dry
Isophorone	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0104	0.159	mg/kg dry
Naphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0118	0.159	mg/kg dry
Nitrobenzene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0269	0.159	mg/kg dry
n-Nitroso-di-n-propylamine	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00850	0.159	mg/kg dry
n-Nitrosodiphenylamine	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0339	0.159	mg/kg dry
Pentachlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0218	0.397	mg/kg dry
Phenanthrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0209	0.159	mg/kg dry
Phenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0129	0.159	mg/kg dry
Pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0117	0.159	mg/kg dry
Pesticides								
4,4'-DDD	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000709	0.00155	mg/kg dry
4,4'-DDE	**SW 846 8081B**	09/17/20 08:10	09/18/20 16:33	**0.00276**		**0.000848**	**0.00155**	mg/kg dry
4,4'-DDT	**SW 846 8081B**	09/17/20 08:10	09/18/20 16:33	**0.00181**		**0.00109**	**0.00155**	mg/kg dry
Aldrin	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000734	0.00155	mg/kg dry

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Analytical Results Summary

Conquest Contracting Engineers

0090585-03 (Soil)

Salem St

Collected	Received	Contact
09/14/2020 13:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
Pesticides								
alpha-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000461	0.00155	mg/kg dry
beta-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000740	0.00155	mg/kg dry
Chlordane	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000689	0.00155	mg/kg dry
delta-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000720	0.00155	mg/kg dry
Dieldrin	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000811	0.00155	mg/kg dry
Endosulfan I	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000732	0.00155	mg/kg dry
Endosulfan II	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000705	0.00155	mg/kg dry
Endosulfan sulfate	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000583	0.00155	mg/kg dry
Endrin	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000535	0.00155	mg/kg dry
Endrin aldehyde	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000618	0.00155	mg/kg dry
Endrin ketone	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000546	0.00155	mg/kg dry
gamma-BHC (Lindane)	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000491	0.00155	mg/kg dry
Heptachlor	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000415	0.00155	mg/kg dry
Heptachlor Epoxide	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000782	0.00155	mg/kg dry
Methoxychlor	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000454	0.00155	mg/kg dry
Toxaphene	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.0747	0.0787	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00528	0.0393	mg/kg dry
Aroclor-1221	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.0104	0.0393	mg/kg dry
Aroclor-1232	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.0132	0.0393	mg/kg dry
Aroclor-1242	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00773	0.0393	mg/kg dry
Aroclor-1248	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00809	0.0393	mg/kg dry
Aroclor-1254	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00635	0.0393	mg/kg dry
Aroclor-1260	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00493	0.0393	mg/kg dry
Aroclor-1262	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.0106	0.0393	mg/kg dry
Aroclor-1268	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00476	0.0393	mg/kg dry
Total PCBs	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00367	0.0393	mg/kg dry
VO+15 Volatile Organics - GC/MS								
1,1,1-Trichloroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000348	0.00238	mg/kg dry
1,1,2,2-Tetrachloroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000329	0.00238	mg/kg dry
1,1,2-Trichloro-1,2,2 Trifluoroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.00102	0.00238	mg/kg dry
1,1,2-Trichloroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000402	0.00238	mg/kg dry
1,1-Dichloroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000348	0.00238	mg/kg dry

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Conquest Contracting Engineers

0090585-03 (Soil)

Salem St

Collected	Received	Contact
09/14/2020 13:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
VO+15 Volatile Organics - GC/MS								
1,1-Dichloroethene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000441	0.00238	mg/kg dry
1,2,3-Trichlorobenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000515	0.00238	mg/kg dry
1,2,4-Trichlorobenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000635	0.00238	mg/kg dry
1,2,4-Trimethylbenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000329	0.00238	mg/kg dry
1,2-Dibromo-3-chloropropane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000582	0.00596	mg/kg dry
1,2-Dibromoethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000300	0.00238	mg/kg dry
1,2-Dichlorobenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000421	0.00238	mg/kg dry
1,2-Dichloroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000336	0.00238	mg/kg dry
1,2-Dichloropropane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000391	0.00238	mg/kg dry
1,3-Dichlorobenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000175	0.00238	mg/kg dry
1,4-Dichlorobenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000343	0.00238	mg/kg dry
2-Butanone	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000389	0.00596	mg/kg dry
2-Hexanone	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000223	0.00238	mg/kg dry
4-Methyl-2-pentanone	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000298	0.00238	mg/kg dry
Acetone	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000722	0.00596	mg/kg dry
Benzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000217	0.00238	mg/kg dry
Bromochloromethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000440	0.00238	mg/kg dry
Bromodichloromethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000299	0.00238	mg/kg dry
Bromoform	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000418	0.00238	mg/kg dry
Bromomethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000688	0.00238	mg/kg dry
Carbon disulfide	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000342	0.00238	mg/kg dry
Carbon Tetrachloride	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000359	0.00238	mg/kg dry
Chlorobenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000346	0.00238	mg/kg dry
Chlorodibromomethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000293	0.00238	mg/kg dry
Chloroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000407	0.00238	mg/kg dry
Chloroform	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000401	0.00238	mg/kg dry
Chloromethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000918	0.00238	mg/kg dry
cis-1,2-Dichloroethene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000115	0.00238	mg/kg dry
cis-1,3-Dichloropropene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000302	0.00238	mg/kg dry
Cyclohexane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000528	0.00238	mg/kg dry
Dichlorodifluoromethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000805	0.00238	mg/kg dry
EthylBenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000323	0.00238	mg/kg dry
Isopropylbenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000374	0.00238	mg/kg dry
m+p-Xylenes	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000602	0.00477	mg/kg dry
Methyl Acetate	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000316	0.00238	mg/kg dry
Methyl tert-Butyl Ether	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000403	0.00238	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND, U - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-03 (Soil)

Salem St

Collected	Received	Contact
09/14/2020 13:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
VO+15 Volatile Organics - GC/MS								
Methylcyclohexane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000384	0.00238	mg/kg dry
Methylene Chloride	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000716	0.00238	mg/kg dry
o-Xylene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000306	0.00238	mg/kg dry
Styrene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000341	0.00238	mg/kg dry
tert-Butyl alcohol	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.00501	0.0238	mg/kg dry
Tetrachloroethene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000236	0.00238	mg/kg dry
Toluene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000192	0.00238	mg/kg dry
Total Xylenes	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000306	0.00238	mg/kg dry
trans-1,2-Dichloroethene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000323	0.00238	mg/kg dry
trans-1,3-Dichloropropene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000455	0.00238	mg/kg dry
Trichloroethene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000350	0.00238	mg/kg dry
Trichlorofluoromethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000274	0.00238	mg/kg dry
Vinyl chloride	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000453	0.00238	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND, U - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL 0090585

AQUA PRO-TECH LABORATORIES
www.aquaprotechlabs.com
BUILDING 6
FIELD, NEW JERSEY 07004
TEL: 973.227.0422
FAX: 973.227.2813

CHAIN OF CUSTODY

PAGE 1 OF 1

CLIENT: CONQUEST CONTRACTING ENGINEERS
ADDRESS: 20 CARVER AVE
WESTWOOD NJ
PHONE: 201-666-2266
E-MAIL: fsiuttino@conquestinc.net
PROJECT NAME: Jefferson St. Ridgewood
PROJECT MGR: FRANK SIUTTINO
PROJECT or PO #:

SEND REPORT TO:
ADDRESS:
PHONE:
FAX:
SEND INVOICE TO:
ADDRESS:
SAMPLED BY: MM

TURN-AROUND TIME
- [ ] APL STANDARD 2 weeks
- [x] RUSH (choose one below)
  - [ ] 24 hr. date & time required
  - [ ] 48 hr. date & time required
  - [ ] 72 hr. date & time required
  - [x] 1 week

REPORT FORMAT
- [x] RESULTS ONLY
- [ ] NJ DEP REDUCED
- [ ] NJ DEP FULL
- [ ] STATE FORMS/E2 REPORTING

PWSID#

ELECTRONIC FORMAT
- [ ] EMAIL DELIVERY
- [ ] HAZSITE EDD
- [ ] EXCEL

SRP#

CONTAMINATION LEVEL
- [ ] HIGH [ ] MEDIUM [ ] LOW

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type: GRAB	Sample Type: COMP	MATRIX	No. of Bottles	Preservative	Analysis Requested
0090585-01	WILLIAMS ST.	9/14/20	8:50 AM			S	1		TCL/TAL+30, EPH 2, HEXAVALENT CHROMIUM, PH
02	JEFFERSON ST.	9/14/20	11:00 AM			S	1		
03	SALEM ST.	9/14/20	1:00 PM			S	1		

RELINQUISHED BY (Print)	Michael Moreno	DATE 9/14/20	RECEIVED BY (Print)
Signature		Time	Signature
RELINQUISHED BY (Print)		DATE 9/14/20	RECEIVED BY (Print)
Signature		Time 16:05	Signature
RELINQUISHED BY (Print)		DATE	RECEIVED BY (Print)
Signature		Time	Signature

COMMENTS/SPECIAL INSTRUCTIONS

Cooler Temp. upon receipt at lab 4.0

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

APPENDIX G

RIDGEWOOD WATER COMPANY SPOIL PILE ANALYTICAL DATA

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Eurofins QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966-0514

Report Date: December 22, 2016

Project: L6065481

Submittal Date: 11/30/2016
Group Number: 1739018
SDG: EDR01
PO Number: L6065481
State of Sample Origin: NJ

Client Sample Description	Lancaster Labs (LL) #
L6065481-1 Grab Soil	8721669

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Eurofins QC Laboratories Attn: Nicki Smith

Respectfully Submitted,

Bonnie Gingras
Manager

(201) 729-1907

Project Name: L6065481
LL Group #: 1739018

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

SW-846 8260B, GC/MS Volatiles

Batch #: B163421AA (Sample number(s): 8721669 UNSPK: P719335)

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: Chloromethane, Vinyl Chloride, Chlorobenzene, Ethylbenzene, Styrene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, Xylene (Total), Acrylonitrile

SW-846 8270C, GC/MS Semivolatiles

Sample #s: 8721669

Reporting limits were raised due to interference from the sample matrix. The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC/DoD Standards. The following analytes are accepted based on this allowance:
Hexachlorocyclopentadiene

Batch #: 16337SLN026 (Sample number(s): 8721669 UNSPK: P720165)

The recovery(ies) for the following analyte(s) in the LCS were below the acceptance window: Hexachlorocyclopentadiene

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: N-Nitroso-di-n-propylamine, 4-Chloro-3-methylphenol, Acenaphthene, Pentachlorophenol, Pyrene, 2,4-Dichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrophenol, Hexachloroethane, Nitrobenzene, Isophorone, Naphthalene, Hexachlorocyclopentadiene, Dimethylphthalate, Fluorene, Diethylphthalate, N-Nitrosodiphenylamine, Hexachlorobenzene, Anthracene, Di-n-butylphthalate, Fluoranthene, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene, 3,3'-Dichlorobenzidine, bis(2-Ethylhexyl)phthalate, Di-n-octylphthalate, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzyl alcohol, 2-Methylphenol, 4-Chloroaniline, 2,4,5-Trichlorophenol, Phenol, 2,4-Dimethylphenol, bis(2-Chloroethyl)ether, bis(2-Chloroisopropyl)ether, Benzo(b)fluoranthene

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: N-Nitroso-di-n-propylamine, Acenaphthene, 2,4-Dichlorophenol, 2,4,6-Trichlorophenol, bis(2-Chloroethyl)ether, bis(2-Chloroisopropyl)ether, Nitrobenzene, Isophorone, Fluorene, N-Nitrosodiphenylamine, Chrysene, 2,4,5-Trichlorophenol

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) MS, MSD

SW-846 6010C, Metals

Batch #: 163370637003 (Sample number(s): 8721669 UNSPK: 8721669 BKG: 8721669)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Copper

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Copper

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Arsenic, Antimony, Barium, Cadmium

Sample Description: L6065481-1 Grab Soil
SOIL/DIRT

LL Sample # SW 8721669
LL Group # 1739018
Account # 26325

Project Name: L6065481

Collected: 11/28/2016 07:00 by BD

Submitted: 11/30/2016 05:30
Reported: 12/22/2016 14:05

Eurofins QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966-0514

SOILD SDG#: EDR01-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	8	22	0.97
10237	Acrylonitrile	107-13-1	N.D. Q4	4	22	0.97
10237	Benzene	71-43-2	N.D.	0.5	5	0.97
10237	Bromodichloromethane	75-27-4	N.D.	1	5	0.97
10237	Bromoform	75-25-2	N.D.	1	5	0.97
10237	Bromomethane	74-83-9	N.D.	2	5	0.97
10237	2-Butanone	78-93-3	N.D.	4	11	0.97
10237	Carbon Tetrachloride	56-23-5	N.D.	1	5	0.97
10237	Chlorobenzene	108-90-7	N.D. Q4	1	5	0.97
10237	Chloroform	67-66-3	N.D.	1	5	0.97
10237	Chloromethane	74-87-3	N.D. Q4	2	5	0.97
10237	Dibromochloromethane	124-48-1	N.D.	1	5	0.97
10237	1,2-Dichlorobenzene	95-50-1	N.D. Q4	1	5	0.97
10237	1,3-Dichlorobenzene	541-73-1	N.D. Q4	1	5	0.97
10237	1,4-Dichlorobenzene	106-46-7	N.D. Q4	1	5	0.97
10237	1,1-Dichloroethane	75-34-3	N.D.	1	5	0.97
10237	1,2-Dichloroethane	107-06-2	N.D.	1	5	0.97
10237	1,1-Dichloroethene	75-35-4	N.D.	1	5	0.97
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	5	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	5	0.97
10237	1,2-Dichloropropane	78-87-5	N.D.	1	5	0.97
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	5	0.97
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	5	0.97
10237	Ethylbenzene	100-41-4	N.D. Q4	1	5	0.97
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	11	0.97
10237	Methylene Chloride	75-09-2	N.D.	2	5	0.97
10237	Styrene	100-42-5	N.D. Q4	1	5	0.97
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	5	0.97
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	5	0.97
10237	Tetrachloroethene	127-18-4	N.D.	1	5	0.97
10237	Toluene	108-88-3	N.D.	1	5	0.97
10237	1,2,4-Trichlorobenzene	120-82-1	N.D. Q4	1	5	0.97
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	5	0.97
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	5	0.97
10237	Trichloroethene	79-01-6	N.D.	1	5	0.97
10237	Vinyl Chloride	75-01-4	N.D. Q4	1	5	0.97
10237	Xylene (Total)	1330-20-7	N.D. Q4	1	5	0.97
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	
10727	Acenaphthene	83-32-9	N.D. Q4Q9	180	940	10
10727	Anthracene	120-12-7	N.D. Q4	180	940	10
10727	Benzo(a)anthracene	56-55-3	N.D. Q4	180	940	10
10727	Benzo(a)pyrene	50-32-8	N.D. Q4	180	940	10
10727	Benzo(b)fluoranthene	205-99-2	N.D. Q4	180	940	10
10727	Benzo(k)fluoranthene	207-08-9	N.D.	180	940	10
10727	Benzyl alcohol	100-51-6	N.D. Q4	9,200	28,000	10
10727	Butylbenzylphthalate	85-68-7	N.D. Q4	3,700	9,200	10
10727	Di-n-butylphthalate	84-74-2	N.D. Q4	3,700	9,200	10
10727	4-Chloro-3-methylphenol	59-50-7	N.D. Q4	920	1,800	10

*=This limit was used in the evaluation of the final result

Sample Description: L6065481-1 Grab Soil
SOIL/DIRT

LL Sample # SW 8721669
LL Group # 1739018
Account # 26325

Project Name: L6065481

Collected: 11/28/2016 07:00 by BD

Submitted: 11/30/2016 05:30
Reported: 12/22/2016 14:05

Eurofins QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966-0514

SOILD SDG#: EDR01-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
10727	4-Chloroaniline	106-47-8	N.D. Q4	1,800	3,700	10
10727	bis(2-Chloroethyl)ether	111-44-4	N.D. Q4Q9	920	1,800	10
10727	bis(2-Chloroisopropyl)ether	39638-32-9	N.D. Q4Q9	920	1,800	10
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10727	2-Chlorophenol	95-57-8	N.D.	920	1,800	10
10727	Chrysene	218-01-9	N.D. Q4Q9	180	940	10
10727	Dibenz(a,h)anthracene	53-70-3	N.D.	180	940	10
10727	3,3'-Dichlorobenzidine	91-94-1	N.D. Q4	5,500	18,000	10
10727	2,4-Dichlorophenol	120-83-2	N.D. Q4Q9	920	1,800	10
10727	Diethylphthalate	84-66-2	N.D. Q4	3,700	9,200	10
10727	2,4-Dimethylphenol	105-67-9	N.D. Q4	920	1,800	10
10727	Dimethylphthalate	131-11-3	N.D. Q4	3,700	9,200	10
10727	2,4-Dinitrophenol	51-28-5	N.D. Q4	17,000	55,000	10
10727	2,4_2,6-Dinitrotoluenes	25321-14-6	N.D.	1,800	9,200	10
10727	bis(2-Ethylhexyl)phthalate	117-81-7	N.D. Q4	3,700	9,400	10
10727	Fluoranthene	206-44-0	N.D. Q4	180	940	10
10727	Fluorene	86-73-7	N.D. Q4Q9	180	940	10
10727	Hexachlorobenzene	118-74-1	N.D. Q4	180	940	10
10727	Hexachlorobutadiene	87-68-3	N.D.	920	1,800	10
10727	Hexachlorocyclopentadiene	77-47-4	N.D. Q0Q4	9,200	28,000	10
10727	Hexachloroethane	67-72-1	N.D. Q4	1,800	9,200	10
10727	Indeno(1,2,3-cd)pyrene	193-39-5	N.D. Q4	180	940	10
10727	Isophorone	78-59-1	N.D. Q4Q9	920	1,800	10
10727	2-Methylphenol	95-48-7	N.D. Q4	920	1,800	10
10727	4-Methylphenol	106-44-5	N.D.	920	1,800	10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10727	Naphthalene	91-20-3	N.D. Q4	180	940	10
10727	Nitrobenzene	98-95-3	N.D. Q4Q9	920	1,800	10
10727	N-Nitroso-di-n-propylamine	621-64-7	N.D. Q4Q9	920	1,800	10
10727	N-Nitrosodiphenylamine	86-30-6	N.D. Q4Q9	920	1,800	10
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10727	Di-n-octylphthalate	117-84-0	N.D. Q4	3,700	9,200	10
10727	Pentachlorophenol	87-86-5	N.D. Q4	1,800	9,400	10
10727	Phenol	108-95-2	N.D. Q4	920	1,800	10
10727	Pyrene	129-00-0	N.D. Q4	180	940	10
10727	2,4,5-Trichlorophenol	95-95-4	N.D. Q4Q9	920	1,800	10
10727	2,4,6-Trichlorophenol	88-06-2	N.D. Q4Q9	920	1,800	10

Reporting limits were raised due to interference from the sample matrix.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC/DoD Standards. The following analytes are accepted based on this allowance:

*=This limit was used in the evaluation of the final result

Sample Description: L6065481-1 Grab Soil
SOIL/DIRT

LL Sample # SW 8721669
LL Group # 1739018
Account # 26325

Project Name: L6065481

Collected: 11/28/2016 07:00 by BD

Submitted: 11/30/2016 05:30
Reported: 12/22/2016 14:05

Eurofins QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966-0514

SOILD SDG#: EDR01-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Hexachlorocyclopentadiene					
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**	**ug/kg**	**ug/kg**	
10738	Aldrin	309-00-2	N.D.	0.19	0.91	1
10738	Gamma BHC - Lindane	58-89-9	N.D.	0.19	0.91	1
10738	p,p-DDD	72-54-8	N.D.	0.36	1.9	1
10738	p,p-DDE	72-55-9	0.97 J	0.36	1.9	1
10738	p,p-DDT	50-29-3	1.1 J	0.38	1.9	1
10738	Dieldrin	60-57-1	N.D.	0.36	1.9	1
10738	Endosulfan I	959-98-8	N.D.	0.24	0.91	1
10738	Endosulfan II	33213-65-9	N.D.	0.36	1.9	1
10738	Endrin	72-20-8	N.D.	0.36	1.9	1
10738	Heptachlor	76-44-8	N.D.	0.19	0.91	1
10738	Methoxychlor	72-43-5	N.D.	1.9	7.3	1
10738	Toxaphene	8001-35-2	N.D.	15	36	1
Pesticides/PCBs	**SW-846 8082A Feb 2007 Rev 1**		**ug/kg**	**ug/kg**	**ug/kg**	
10885	PCB-1016	12674-11-2	N.D.	3.9	19	1
10885	PCB-1221	11104-28-2	N.D.	5.0	19	1
10885	PCB-1232	11141-16-5	N.D.	8.7	19	1
10885	PCB-1242	53469-21-9	N.D.	3.6	19	1
10885	PCB-1248	12672-29-6	N.D.	3.6	19	1
10885	PCB-1254	11097-69-1	N.D.	3.6	19	1
10885	PCB-1260	11096-82-5	N.D.	5.3	19	1
Metals	**SW-846 6010C**		**mg/kg**	**mg/kg**	**mg/kg**	
06944	Antimony	7440-36-0	0.854 J Q8	0.651	3.72	1
06935	Arsenic	7440-38-2	1.74 J Q8	0.903	3.72	1
06946	Barium	7440-39-3	33.5 Q8	0.0307	0.931	1
06947	Beryllium	7440-41-7	0.306 J	0.0624	0.931	1
06949	Cadmium	7440-43-9	0.0819 J Q8	0.0456	0.931	1
06951	Chromium	7440-47-3	10.8	0.130	2.79	1
02829	Trivalent Chromium soils	16065-83-1	10.8	0.55	2.8	1
	The Trivalent Chromium result is calculated by subtracting Hexavalent Chromium from Total Chromium.					
06953	Copper	7440-50-8	9.72 Q4Q9	0.214	1.86	1
06955	Lead	7439-92-1	5.04 B	0.512	2.79	1
06961	Nickel	7440-02-0	8.08	0.279	1.86	1
06936	Selenium	7782-49-2	1.70 J	0.838	3.72	1
06966	Silver	7440-22-4	N.D.	0.140	0.931	1
06925	Thallium	7440-28-0	2.08 J	0.763	5.58	1
06971	Vanadium	7440-62-2	22.1	0.130	0.931	1
06972	Zinc	7440-66-6	16.8	0.633	3.72	1
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	Total Cyanide (solid)	57-12-5	N.D.	0.21	0.57	1
	SW-846 7196A		**mg/kg**	**mg/kg**	**mg/kg**	
00425	Hexavalent Chromium (SOLIDS)	18540-29-9	N.D.	0.55	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: L6065481-1 Grab Soil
SOIL/DIRT

LL Sample # SW 8721669
LL Group # 1739018
Account # 26325

Project Name: L6065481

Collected: 11/28/2016 07:00 by BD

Submitted: 11/30/2016 05:30
Reported: 12/22/2016 14:05

Eurofins QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966-0514

SOILD SDG#: EDR01-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	9.7	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					
07400	Percent Solids	n.a.	90.3	0.50	0.50	1
	The total residue is calculated by subtracting the moisture value from 100%.					

Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B163421AA	12/08/2016 01:42	Patrick T Herres	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201633843627	12/03/2016 12:20	Katelyn C Shober	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201633843627	12/03/2016 12:20	Katelyn C Shober	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201633843627	12/03/2016 11:33	Katelyn C Shober	n.a.
10727	TCL 8270 (microwave)	SW-846 8270C	1	16337SLN026	12/08/2016 14:37	Linda M Hartenstine	10
10809	BNA Soil Microwave	SW-846 3546	1	16337SLN026	12/05/2016 09:30	Gladys Doddamani	1
10738	Pesticides in Soil (microwave)	SW-846 8081A	1	163410013A	12/21/2016 14:10	Andrea L Jones	1
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	163410014A	12/08/2016 00:43	Kirby B Turner	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	163410014A	12/07/2016 09:00	Michelle A Newswanger	1
10496	PPL Pest. Microwave Extraction	SW-846 3546	1	163410013A	12/07/2016 09:00	Michelle A Newswanger	1
06944	Antimony	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06935	Arsenic	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06946	Barium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06947	Beryllium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06949	Cadmium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06951	Chromium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
02829	Trivalent Chromium soils	SW-846 6010C	1	163562829001	12/21/2016 08:35	Nina C Haller	1
06953	Copper	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06955	Lead	SW-846 6010C	1	163370637003	12/09/2016 21:23	Cindy M Gehman	1
06961	Nickel	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1

*=This limit was used in the evaluation of the final result

Sample Description: L6065481-1 Grab Soil
SOIL/DIRT

LL Sample # SW 8721669
LL Group # 1739018
Account # 26325

Project Name: L6065481

Collected: 11/28/2016 07:00 by BD

Submitted: 11/30/2016 05:30
Reported: 12/22/2016 14:05

Eurofins QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966-0514

SOILD SDG#: EDR01-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06936	Selenium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06966	Silver	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06925	Thallium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06971	Vanadium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06972	Zinc	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
10637	ICP/ICPMS-SW, 3050B - U4	SW-846 3050B	1	163370637003	12/04/2016 22:32	Annamaria Kuhns	1
05895	Total Cyanide (solid)	SW-846 9012B	1	16337102201A	12/03/2016 12:00	Brianna A White	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	16337102201A	12/02/2016 18:45	Barbara A Washington	1
00425	Hexavalent Chromium (SOLIDS)	SW-846 7196A	1	16352042501A	12/18/2016 06:25	Daniel S Smith	1
07825	Hexavalent Cr (Extraction)	SW-846 3060A	1	16352042501A	12/17/2016 07:30	Daniel S Smith	1
00111	Moisture	SM 2540 G-1997	1	16337820001A	12/02/2016 11:38	Larry E Bevins	1
07400	Percent Solids	SM 2540 G-1997	1	16337820001A	12/02/2016 11:38	Larry E Bevins	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/kg	ug/kg	ug/kg
Batch number: B163421AA	Sample number(s): 8721669		
Acetone	N.D.	7	20
Acrylonitrile	N.D.	4	20
Benzene	N.D.	0.5	5
Bromodichloromethane	N.D.	1	5
Bromoform	N.D.	1	5
Bromomethane	N.D.	2	5
2-Butanone	N.D.	4	10
Carbon Tetrachloride	N.D.	1	5
Chlorobenzene	N.D.	1	5
Chloroform	N.D.	1	5
Chloromethane	N.D.	2	5
Dibromochloromethane	N.D.	1	5
1,2-Dichlorobenzene	N.D.	1	5
1,3-Dichlorobenzene	N.D.	1	5
1,4-Dichlorobenzene	N.D.	1	5
1,1-Dichloroethane	N.D.	1	5
1,2-Dichloroethane	N.D.	1	5
1,1-Dichloroethene	N.D.	1	5
cis-1,2-Dichloroethene	N.D.	1	5
trans-1,2-Dichloroethene	N.D.	1	5
1,2-Dichloropropane	N.D.	1	5
cis-1,3-Dichloropropene	N.D.	1	5
trans-1,3-Dichloropropene	N.D.	1	5
Ethylbenzene	N.D.	1	5
4-Methyl-2-pentanone	N.D.	3	10
Methylene Chloride	N.D.	2	5
Styrene	N.D.	1	5
1,1,1,2-Tetrachloroethane	N.D.	1	5
1,1,2,2-Tetrachloroethane	N.D.	1	5
Tetrachloroethene	N.D.	1	5
Toluene	N.D.	1	5
1,2,4-Trichlorobenzene	N.D.	1	5
1,1,1-Trichloroethane	N.D.	1	5
1,1,2-Trichloroethane	N.D.	1	5
Trichloroethene	N.D.	1	5
Vinyl Chloride	N.D.	1	5
Xylene (Total)	N.D.	1	5
Batch number: 16337SLN026	Sample number(s): 8721669		
Acenaphthene	N.D.	3	17
Anthracene	N.D.	3	17

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/kg	ug/kg	ug/kg
Benzo(a)anthracene	N.D.	3	17
Benzo(a)pyrene	N.D.	3	17
Benzo(b)fluoranthene	N.D.	3	17
Benzo(k)fluoranthene	N.D.	3	17
Benzyl alcohol	N.D.	170	500
Butylbenzylphthalate	N.D.	67	170
Di-n-butylphthalate	N.D.	67	170
4-Chloro-3-methylphenol	N.D.	17	33
4-Chloroaniline	N.D.	33	67
bis(2-Chloroethyl)ether	N.D.	17	33
bis(2-Chloroisopropyl)ether	N.D.	17	33
2-Chlorophenol	N.D.	17	33
Chrysene	N.D.	3	17
Dibenz(a,h)anthracene	N.D.	3	17
3,3'-Dichlorobenzidine	N.D.	100	330
2,4-Dichlorophenol	N.D.	17	33
Diethylphthalate	N.D.	67	170
2,4-Dimethylphenol	N.D.	17	33
Dimethylphthalate	N.D.	67	170
2,4-Dinitrophenol	N.D.	300	1,000
2,4_2,6-Dinitrotoluenes	N.D.	33	170
bis(2-Ethylhexyl)phthalate	N.D.	67	170
Fluoranthene	N.D.	3	17
Fluorene	N.D.	3	17
Hexachlorobenzene	N.D.	3	17
Hexachlorobutadiene	N.D.	17	33
Hexachlorocyclopentadiene	N.D.	170	500
Hexachloroethane	N.D.	33	170
Indeno(1,2,3-cd)pyrene	N.D.	3	17
Isophorone	N.D.	17	33
2-Methylphenol	N.D.	17	33
4-Methylphenol	N.D.	17	33
Naphthalene	N.D.	3	17
Nitrobenzene	N.D.	17	33
N-Nitroso-di-n-propylamine	N.D.	17	33
N-Nitrosodiphenylamine	N.D.	17	33
Di-n-octylphthalate	N.D.	67	170
Pentachlorophenol	N.D.	33	170
Phenol	N.D.	17	33
Pyrene	N.D.	3	17
2,4,5-Trichlorophenol	N.D.	17	33
2,4,6-Trichlorophenol	N.D.	17	33
Batch number: 163410013A	Sample number(s): 8721669		
Aldrin	N.D.	0.17	0.83
Gamma BHC - Lindane	N.D.	0.17	0.83
p,p-DDD	N.D.	0.33	1.7
p,p-DDE	N.D.	0.33	1.7
p,p-DDT	N.D.	0.35	1.7

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/kg	ug/kg	ug/kg
Dieldrin	N.D.	0.33	1.7
Endosulfan I	N.D.	0.22	0.83
Endosulfan II	N.D.	0.33	1.7
Endrin	N.D.	0.33	1.7
Heptachlor	N.D.	0.17	0.83
Methoxychlor	N.D.	1.7	6.7
Toxaphene	N.D.	14	33
Batch number: 163410014A	Sample number(s): 8721669		
PCB-1016	N.D.	3.6	17
PCB-1221	N.D.	4.6	17
PCB-1232	N.D.	8.0	17
PCB-1242	N.D.	3.3	17
PCB-1248	N.D.	3.3	17
PCB-1254	N.D.	3.3	17
PCB-1260	N.D.	4.9	17
	mg/kg	mg/kg	mg/kg
Batch number: 163370637003	Sample number(s): 8721669		
Antimony	N.D.	0.700	4.00
Arsenic	N.D.	0.970	4.00
Barium	N.D.	0.0330	1.00
Beryllium	N.D.	0.0670	1.00
Cadmium	N.D.	0.0490	1.00
Chromium	N.D.	0.140	3.00
Copper	N.D.	0.230	2.00
Lead	0.666 J	0.550	3.00
Nickel	N.D.	0.300	2.00
Selenium	N.D.	0.900	4.00
Silver	N.D.	0.150	1.00
Thallium	N.D.	0.820	6.00
Vanadium	N.D.	0.140	1.00
Zinc	N.D.	0.680	4.00
Batch number: 16337102201A	Sample number(s): 8721669		
Total Cyanide (solid)	N.D.	0.18	0.50
Batch number: 16352042501A	Sample number(s): 8721669		
Hexavalent Chromium (SOLIDS)	N.D.	0.50	1.5

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/kg	ug/kg	ug/kg	ug/kg					
Batch number: B163421AA	Sample number(s): 8721669								
Acetone	150	190.61	150	178.15	127	119	39-150	7	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/kg	LCS Conc ug/kg	LCSD Spike Added ug/kg	LCSD Conc ug/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acrylonitrile	100	104.61	100	102.23	105	102	66-120	2	30
Benzene	20	18.77	20	18.52	94	93	80-120	1	30
Bromodichloromethane	20	17.17	20	17.21	86	86	75-120	0	30
Bromoform	20	14.33	20	13.95	72	70	57-127	3	30
Bromomethane	20	18.33	20	18.24	92	91	21-165	0	30
2-Butanone	150	132.64	150	133.55	88	89	54-129	1	30
Carbon Tetrachloride	20	18.1	20	18.02	90	90	69-130	0	30
Chlorobenzene	20	17.9	20	17.64	90	88	80-120	1	30
Chloroform	20	19.03	20	18.9	95	95	80-120	1	30
Chloromethane	20	20.6	20	19.32	103	97	56-120	6	30
Dibromochloromethane	20	15.63	20	15.63	78	78	77-120	0	30
1,2-Dichlorobenzene	20	17.96	20	17.84	90	89	80-120	1	30
1,3-Dichlorobenzene	20	17.1	20	16.64	85	83	80-120	3	30
1,4-Dichlorobenzene	20	17.47	20	17.28	87	86	80-120	1	30
1,1-Dichloroethane	20	19.43	20	19.3	97	96	77-120	1	30
1,2-Dichloroethane	20	20.71	20	20.71	104	104	70-133	0	30
1,1-Dichloroethene	20	19.63	20	19.34	98	97	73-129	2	30
cis-1,2-Dichloroethene	20	18.19	20	18.17	91	91	80-120	0	30
trans-1,2-Dichloroethene	20	20.22	20	19.92	101	100	80-125	2	30
1,2-Dichloropropane	20	18.94	20	18.79	95	94	76-120	1	30
cis-1,3-Dichloropropene	20	17.23	20	17.16	86	86	74-120	0	30
trans-1,3-Dichloropropene	20	17.12	20	16.92	86	85	76-120	1	30
Ethylbenzene	20	18.01	20	17.84	90	89	80-120	1	30
4-Methyl-2-pentanone	100	95.29	100	93.29	95	93	48-136	2	30
Methylene Chloride	20	19.33	20	19.14	97	96	76-122	1	30
Styrene	20	16.84	20	16.86	84	84	76-120	0	30
1,1,1,2-Tetrachloroethane	20	16.86	20	16.79	84	84	75-120	0	30
1,1,2,2-Tetrachloroethane	20	15.51	20	15.04	78	75	67-121	3	30
Tetrachloroethene	20	20.07	20	18.77	100	94	78-120	7	30
Toluene	20	18.02	20	17.79	90	89	80-120	1	30
1,2,4-Trichlorobenzene	20	16.54	20	15.97	83	80	63-121	4	30
1,1,1-Trichloroethane	20	16.59	20	16.4	83	82	66-128	1	30
1,1,2-Trichloroethane	20	17.18	20	16.98	86	85	80-120	1	30
Trichloroethene	20	18.61	20	18.26	93	91	80-120	2	30
Vinyl Chloride	20	19.41	20	19.35	97	97	59-120	0	30
Xylene (Total)	60	54.63	60	53.79	91	90	80-120	2	30
	ug/kg	ug/kg	ug/kg	ug/kg					
Batch number: 16337SLN026	Sample number(s): 8721669								
Acenaphthene	1666.67	1575.23			95		83-116		
Anthracene	1666.67	1524.17			91		82-118		
Benzo(a)anthracene	1666.67	1604.8			96		76-119		
Benzo(a)pyrene	1666.67	1601			96		85-117		
Benzo(b)fluoranthene	1666.67	1735.32			104		79-121		
Benzo(k)fluoranthene	1666.67	1555.95			93		79-120		
Benzyl alcohol	1666.67	1756.94			105		64-119		
Butylbenzylphthalate	1666.67	1541.29			92		80-118		
Di-n-butylphthalate	1666.67	1510.28			91		84-120		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins QC Laboratories Group Number: 1739018
Reported: 12/22/2016 14:05

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/kg	LCS Conc ug/kg	LCSD Spike Added ug/kg	LCSD Conc ug/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chloro-3-methylphenol	1666.67	1746.03			105		74-132		
4-Chloroaniline	1666.67	760.2			46		10-100		
bis(2-Chloroethyl)ether	1666.67	1679.49			101		77-115		
bis(2-Chloroisopropyl)ether	1666.67	1563.24			94		62-127		
2-Chlorophenol	1666.67	1688.52			101		85-123		
Chrysene	1666.67	1554.5			93		80-121		
Dibenz(a,h)anthracene	1666.67	1665.92			100		81-123		
3,3'-Dichlorobenzidine	1666.67	901.99			54		10-116		
2,4-Dichlorophenol	1666.67	1684.81			101		86-125		
Diethylphthalate	1666.67	1564.88			94		81-118		
2,4-Dimethylphenol	1666.67	1331.07			80		73-117		
Dimethylphthalate	1666.67	1576.81			95		82-113		
2,4-Dinitrophenol	3333.33	2112.86			63		16-132		
bis(2-Ethylhexyl)phthalate	1666.67	1551.53			93		81-121		
Fluoranthene	1666.67	1465.88			88		81-117		
Fluorene	1666.67	1637.71			98		86-118		
Hexachlorobenzene	1666.67	1601.85			96		79-116		
Hexachlorobutadiene	1666.67	1539.46			92		72-120		
Hexachlorocyclopentadiene	3333.33	1676.48			50*		57-142		
Hexachloroethane	1666.67	1488.81			89		78-114		
Indeno(1,2,3-cd)pyrene	1666.67	1589.47			95		75-118		
Isophorone	1666.67	1633.69			98		77-118		
2-Methylphenol	1666.67	1756.65			105		80-133		
4-Methylphenol	1666.67	1640.96			98		73-125		
Naphthalene	1666.67	1517.57			91		82-112		
Nitrobenzene	1666.67	1633.62			98		70-122		
N-Nitroso-di-n-propylamine	1666.67	1707.41			102		67-121		
N-Nitrosodiphenylamine	1666.67	1563.65			94		83-118		
Di-n-octylphthalate	1666.67	1788.28			107		80-140		
Pentachlorophenol	1666.67	1090.15			65		63-128		
Phenol	1666.67	1687.75			101		73-122		
Pyrene	1666.67	1496.73			90		80-120		
2,4,5-Trichlorophenol	1666.67	1705.04			102		86-123		
2,4,6-Trichlorophenol	1666.67	1729.72			104		81-123		
	ug/kg	ug/kg	ug/kg	ug/kg					
Batch number: 163410013A	Sample number(s): 8721669								
Aldrin	3.40	2.96			87		60-117		
Gamma BHC - Lindane	3.33	3.25			97		47-140		
p,p-DDD	6.60	6.70			102		69-138		
p,p-DDE	6.80	6.95			102		68-146		
p,p-DDT	6.60	6.61			100		67-135		
Dieldrin	6.60	5.98			91		63-126		
Endosulfan I	3.33	2.95			89		62-119		
Endosulfan II	6.77	5.98			88		65-126		
Endrin	6.67	6.18			93		65-125		
Heptachlor	3.33	3.02			91		66-118		
Methoxychlor	33.1	34.81			105		65-131		

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Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/kg	LCS Conc ug/kg	LCSD Spike Added ug/kg	LCSD Conc ug/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 163410014A	Sample number(s): 8721669								
PCB-1016	168	163.14			97		76-121		
PCB-1260	167	166.89			100		79-130		
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 163370637003	Sample number(s): 8721669								
Antimony	50	51.16			102		80-120		
Arsenic	15	15.03			100		80-120		
Barium	200	204.75			102		80-120		
Beryllium	5.00	5.14			103		80-120		
Cadmium	5.00	5.16			103		80-120		
Chromium	20	20.2			101		80-120		
Copper	25	25.68			103		80-120		
Lead	15	15.26			102		80-120		
Nickel	50	52.1			104		80-120		
Selenium	15	15.6			104		80-120		
Silver	5.00	5.20			104		80-120		
Thallium	15	15.77			105		80-120		
Vanadium	50	50.97			102		80-120		
Zinc	50	50.71			101		80-120		
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16337102201A	Sample number(s): 8721669								
Total Cyanide (solid)	10	10.15			101		90-110		
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16352042501A	Sample number(s): 8721669								
Hexavalent Chromium (SOLIDS)	5.00	4.72			94		80-120		
	%	%	%	%					
Batch number: 16337820001A	Sample number(s): 8721669								
Moisture	89.5	89.45			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/kg	MS Spike Added ug/kg	MS Conc ug/kg	MSD Spike Added ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: B163421AA	Sample number(s): 8721669 UNSPK: P719335									
Acetone	N.D.	141.24	207.5			147		39-150		
Acrylonitrile	N.D.	94.16	118.21			126*		66-120		

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Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/kg	MS Spike Added ug/kg	MS Conc ug/kg	MSD Spike Added ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Benzene	N.D.	18.83	18.04			96		80-120		
Bromodichloromethane	N.D.	18.83	16.63			88		75-120		
Bromoform	N.D.	18.83	12.72			68		57-127		
Bromomethane	N.D.	18.83	19.65			104		21-165		
2-Butanone	N.D.	141.24	129.72			92		54-129		
Carbon Tetrachloride	N.D.	18.83	17.48			93		69-130		
Chlorobenzene	N.D.	18.83	13.96			74*		80-120		
Chloroform	N.D.	18.83	19.59			104		80-120		
Chloromethane	N.D.	18.83	25.37			135*		56-120		
Dibromochloromethane	N.D.	18.83	14.9			79		77-120		
1,2-Dichlorobenzene	N.D.	18.83	13.74			73*		80-120		
1,3-Dichlorobenzene	N.D.	18.83	11.92			63*		80-120		
1,4-Dichlorobenzene	N.D.	18.83	12.4			66*		80-120		
1,1-Dichloroethane	N.D.	18.83	20.51			109		77-120		
1,2-Dichloroethane	N.D.	18.83	21.91			116		70-133		
1,1-Dichloroethene	N.D.	18.83	21.78			116		73-129		
cis-1,2-Dichloroethene	N.D.	18.83	18.35			97		80-120		
trans-1,2-Dichloroethene	N.D.	18.83	20.66			110		80-125		
1,2-Dichloropropane	N.D.	18.83	18.73			99		76-120		
cis-1,3-Dichloropropene	N.D.	18.83	15.77			84		74-120		
trans-1,3-Dichloropropene	N.D.	18.83	15.43			82		76-120		
Ethylbenzene	N.D.	18.83	12.46			66*		80-120		
4-Methyl-2-pentanone	N.D.	94.16	97.24			103		48-136		
Methylene Chloride	N.D.	18.83	21			111		76-122		
Styrene	N.D.	18.83	12.71			68*		76-120		
1,1,1,2-Tetrachloroethane	N.D.	18.83	14.72			78		75-120		
1,1,2,2-Tetrachloroethane	N.D.	18.83	14.88			79		67-121		
Tetrachloroethene	N.D.	18.83	18.83			100		78-120		
Toluene	N.D.	18.83	15.05			80		80-120		
1,2,4-Trichlorobenzene	N.D.	18.83	11.42			61*		63-121		
1,1,1-Trichloroethane	N.D.	18.83	16.68			89		66-128		
1,1,2-Trichloroethane	N.D.	18.83	16.84			89		80-120		
Trichloroethene	N.D.	18.83	16.55			88		80-120		
Vinyl Chloride	N.D.	18.83	23.63			125*		59-120		
Xylene (Total)	N.D.	56.5	38.2			68*		80-120		
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg					
Batch number: 16337SLN026	Sample number(s): 8721669 UNSPK: P720165									
Acenaphthene	8943.15	1642.58	5603.98	1651.25	3783.72	-202 (2)	-311 (2)	83-116	39*	30
Anthracene	9583.73	1642.58	4311.69	1651.25	3628.83	-320 (2)	-360 (2)	82-118	17	30
Benzo(a)anthracene	1977.83	1642.58	2242.87	1651.25	2191.12	16*	13*	76-119	2	30
Benzo(a)pyrene	1016.21	1642.58	2110.91	1651.25	1874.31	67*	52*	85-117	12	30
Benzo(b)fluoranthene	912.56	1642.58	2176.54	1651.25	2378.3	77*	89	79-121	9	30
Benzo(k)fluoranthene	381.74	1642.58	1897.14	1651.25	1751.65	92	83	79-120	8	30

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Quality Control Summary

Client Name: Eurofins QC Laboratories
Group Number: 1739018
Reported: 12/22/2016 14:05

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/kg	MS Spike Added ug/kg	MS Conc ug/kg	MSD Spike Added ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Benzyl alcohol	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	64-119	0	30
Butylbenzylphthalate	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	80-118	0	30
Di-n-butylphthalate	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	84-120	0	30
4-Chloro-3-methylphenol	N.D.	1642.58	3897.44	1651.25	3225.17	237*	195*	74-132	19	30
4-Chloroaniline	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	10-100	0	30
bis(2-Chloroethyl)ether	N.D.	1642.58	N.D.	1651.25	1893.46	0*	115	77-115	200*	30
bis(2-Chloroisopropyl)ether	N.D.	1642.58	N.D.	1651.25	1857.66	0*	113	62-127	200*	30
2-Chlorophenol	N.D.	1642.58	1757.72	1651.25	1773.71	107	107	85-123	1	30
Chrysene	5905.24	1642.58	4417.94	1651.25	3069.88	-90*	-171*	80-121	36*	30
Dibenz(a,h)anthracene	382.93	1642.58	2053.58	1651.25	1939.3	102	94	81-123	6	30
3,3'-Dichlorobenzidine	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	10-116	0	30
2,4-Dichlorophenol	N.D.	1642.58	4427.1	1651.25	3053.57	270*	185*	86-125	37*	30
Diethylphthalate	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	81-118	0	30
2,4-Dimethylphenol	N.D.	1642.58	1996.71	1651.25	1686.72	122*	102	73-117	17	30
Dimethylphthalate	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	82-113	0	30
2,4-Dinitrophenol	N.D.	3285.15	N.D.	3302.51	N.D.	0*	0*	16-132	0	30
bis(2-Ethylhexyl)phthalate	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	81-121	0	30
Fluoranthene	3059.23	1642.58	2941.16	1651.25	2271.43	-6*	-47*	81-117	26	30
Fluorene	17070.9	1642.58	8032.98	1651.25	5455.55	-549 (2)	-702 (2)	86-118	38*	30
Hexachlorobenzene	N.D.	1642.58	1682.52	1651.25	1936.33	102	117*	79-116	14	30
Hexachlorobutadiene	N.D.	1642.58	1866.69	1651.25	1883.36	114	114	72-120	1	30
Hexachlorocyclopentadiene	N.D.	3285.15	N.D.	3302.51	N.D.	0*	0*	57-142	0	30
Hexachloroethane	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	78-114	0	30
Indeno(1,2,3-cd)pyrene	N.D.	1642.58	2011.14	1651.25	1971.83	122*	119*	75-118	2	30
Isophorone	N.D.	1642.58	4652.3	1651.25	3232.69	283*	196*	77-118	36*	30
2-Methylphenol	N.D.	1642.58	2715.74	1651.25	2471.66	165*	150*	80-133	9	30
4-Methylphenol	N.D.	1642.58	1804.5	1651.25	1985.11	110	120	73-125	10	30
Naphthalene	15027.34	1642.58	9353.22	1651.25	7515.95	-344 (2)	-454 (2)	82-112	22	30
Nitrobenzene	N.D.	1642.58	13639.91	1651.25	N.D.	830*	0*	70-122	200*	30
N-Nitroso-di-n-propylamine	N.D.	1642.58	N.D.	1651.25	4767.5	0*	289*	67-121	200*	30
N-Nitrosodiphenylamine	N.D.	1642.58	15492.48	1651.25	8354.56	943*	506*	83-118	60*	30
Di-n-octylphthalate	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	80-140	0	30
Pentachlorophenol	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	63-128	0	30
Phenol	N.D.	1642.58	2037.94	1651.25	1798.18	124*	109	73-122	13	30
Pyrene	9300.76	1642.58	4230.13	1651.25	3328.43	-308 (2)	-361 (2)	80-120	24	30
2,4,5-Trichlorophenol	N.D.	1642.58	4493.92	1651.25	2760.34	274*	167*	86-123	48*	30
2,4,6-Trichlorophenol	N.D.	1642.58	3733.05	1651.25	2385.8	227*	144*	81-123	44*	30
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg					
Batch number: 163410013A	Sample number(s): 8721669 UNSPK: P727347									
Aldrin	N.D.	3.38	2.88	3.36	2.70	85	80	60-117	6	50
Gamma BHC - Lindane	N.D.	3.30	3.08	3.28	2.88	93	88	47-140	7	50
p,p-DDD	N.D.	6.54	6.54	6.50	6.09	100	94	69-138	7	50

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P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc	MS Spike Added	MS Conc	MSD Spike Added	MSD Conc	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg					
p,p-DDE	0.698	6.74	6.76	6.70	6.35	90	84	68-146	6	50
p,p-DDT	N.D.	6.54	6.37	6.50	5.95	97	92	67-135	7	50
Dieldrin	0.508	6.54	5.69	6.50	5.27	79	73	63-126	8	50
Endosulfan I	N.D.	3.30	2.83	3.28	2.63	86	80	62-119	7	50
Endosulfan II	N.D.	6.71	5.74	6.67	5.34	86	80	65-126	7	50
Endrin	N.D.	6.61	5.91	6.57	5.49	89	83	65-125	8	50
Heptachlor	N.D.	3.30	2.89	3.28	2.72	87	83	66-118	6	50
Methoxychlor	N.D.	32.8	33.79	32.6	30.71	103	94	65-131	10	50
Batch number: 163410014A	Sample number(s): 8721669 UNSPK: P716867									
PCB-1016	N.D.	166	155.97	167	158.7	94	95	76-121	2	50
PCB-1260	N.D.	166	157.1	166	158.27	95	95	79-130	1	50
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 163370637003	Sample number(s): 8721669 UNSPK: 8721669									
Antimony	0.771	37.04	31.38	42.02	37.22	83	87	75-125	17	20
Arsenic	1.57	11.11	11.81	12.61	13.68	92	96	75-125	15	20
Barium	30.25	148.15	166.19	168.07	199.29	92	101	75-125	18	20
Beryllium	0.276	3.70	3.90	4.20	4.45	98	99	75-125	13	20
Cadmium	0.0739	3.70	3.49	4.20	4.08	92	95	75-125	16	20
Chromium	9.79	14.81	26.92	16.81	27.75	116	107	75-125	3	20
Copper	8.78	18.52	35.31	21.01	28.46	143*	94	75-125	22*	20
Lead	4.55	11.11	14.1	12.61	15.85	86	90	75-125	12	20
Nickel	7.30	37.04	43.96	42.02	47.21	99	95	75-125	7	20
Selenium	1.53	11.11	12.2	12.61	13.25	96	93	75-125	8	20
Silver	N.D.	3.70	3.61	4.20	4.21	97	100	75-125	15	20
Thallium	1.87	11.11	12.74	12.61	13.94	98	96	75-125	9	20
Vanadium	19.93	37.04	62.49	42.02	61.92	115	100	75-125	1	20
Zinc	15.17	37.04	56.64	42.02	57.33	112	100	75-125	1	20
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16337102201A	Sample number(s): 8721669 UNSPK: P716866									
Total Cyanide (solid)	N.D.	5.05	5.20			103		41-145		
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16352042501A	Sample number(s): 8721669 UNSPK: P739841									
Hexavalent Chromium (SOLIDS)	141.44	39.8	177.89			92		75-125		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	mg/kg	mg/kg		
Batch number: 163370637003	Sample number(s): 8721669 BKG: 8721669			
Antimony	0.771	N.D.	200* (1)	20
Arsenic	1.57	2.30	38* (1)	20
Barium	30.25	24.11	23*	20
Beryllium	0.276	0.303	9 (1)	20
Cadmium	0.0739	0.0538	32* (1)	20
Chromium	9.79	10.16	4 (1)	20
Copper	8.78	7.35	18 (1)	20
Lead	4.55	4.57	0 (1)	20
Nickel	7.30	7.69	5 (1)	20
Selenium	1.53	1.61	5 (1)	20
Silver	N.D.	N.D.	0 (1)	20
Thallium	1.87	1.75	7 (1)	20
Vanadium	19.93	17.58	12	20
Zinc	15.17	16.65	9 (1)	20
	mg/kg	mg/kg		
Batch number: 16337102201A	Sample number(s): 8721669 BKG: P716866			
Total Cyanide (solid)	N.D.	N.D.	0 (1)	20
	mg/kg	mg/kg		
Batch number: 16352042501A	Sample number(s): 8721669 BKG: P739841			
Hexavalent Chromium (SOLIDS)	141.44	140.48	1	20
	%	%		
Batch number: 16337820001A	Sample number(s): 8721669 BKG: P721821			
Moisture	79.32	78.8	1	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- Solid by 8260B
Batch number: B163421AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8721669	101	98	99	96
Blank	100	101	97	99
LCS	100	102	99	100
LCSD	101	100	99	100
MS	103	101	100	100
Limits:	50-141	54-135	52-141	50-131

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL 8270 (microwave)
Batch number: 16337SLN026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
8721669	96	91	90	101	102	113
Blank	94	91	103	89	84	98
LCS	104	98	102	92	91	99
MS	113	99	98	246*	108	128
MSD	113	99	99	165*	108	118
Limits:	58-122	57-126	28-141	54-123	63-117	49-129

Analysis Name: Pesticides in Soil (microwave)
Batch number: 163410013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
8721669	85	94
Blank	90	104
LCS	89	99
MS	87	98
MSD	82	99
Limits:	26-145	39-152

Analysis Name: PCBs 8082A/3546
Batch number: 163410014A

	Tetrachloro-m-xylene	Decachlorobiphenyl
8721669	112	97
Blank	111	103
LCS	113	111
MS	104	100
MSD	108	98
Limits:	53-140	45-143

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

QC LABORATORIES
1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

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CHAIN OF CUSTODY

Page 1 of 1

Lab LIMS No: L1665481

LAB USE ONLY:

Ascorbic/HCl Vials # HCl Vials
$Na_2S_2O_3$
NaOH/Zn acetate pH
HNO_3 pH
H_2SO_4 pH
NaOH pH
2 Unpreserved
HCl pH
Temp/control (ID#)

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

Client/Acct. No. VILLAGE OF RIDGEWOOD
Address 131 N MAPLE AVE
City/State/Zip RIDGEWOOD NJ 07450
Phone/Fax 201-670-5577
Client Contact YAGNESH VYAS

Bill to/Report to: (if different)
Sampling Site Address: (if different)
P.O. No.
QC Contact

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	$Na_2S_2O_3$	HNO_3	NaOH	ZnAc	Unpres	Bact
SOIL / DIRT SAMPLE	11-28-16	0700	X		SO	2							X	

ANALYSIS REQUESTED

PLEASE TEST FOR ALL PARAMETERS LISTED ON ATTACHED SHEETS

Field pH, Temp (C or F), DO, Cl_2, S, Cond. etc.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☒ Standard ☐ Forms
☒ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

	DATE	TIME		DATE	TIME
RELINQUISHED BY SAMPLER 1	11-28-16	0900	RECEIVED BY 1	11-29-16	0900
RELINQUISHED BY 2	11-29-16	1530	RECEIVED BY 2 Cooler #160	11-29-16	1530
RELINQUISHED BY 3 Cooler 160	11/29/16	22:00	RECEIVED BY 3	11/29/16	22:00
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	113016	530

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:
EMAIL ADDRESS -
YVYAS@RIDGEWOOD.NJ.NET
4.1°C/AT/USA/1600

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

G-1739018

Site Remediation Program

Soil Cleanup Criteria (mg/kg)

Table Last Revised: 12 May 1999 to correct the impact to ground water criterion for bis(2-chloroethyl) ether. Please note that this table is for reference purpose and cases with Remedial Action Workplans approved prior to the May 7, 2012 amendments of the Remediation Standards at N.J.A.C. 7:26D.

This listing represents the combination of Tables 3-2 and 7-1 from the Department of Environmental Protection and Energy's February 3, 1992 proposed rule entitled Cleanup Standards for Contaminated Sites, N.J.A.C. 7:26D, as corrected based upon errors identified by the Department during or subsequent to the comment period as well as new toxicological or other information obtained since the rule proposal. Please refer to the respective footnotes for more detail. Notwithstanding, where the following criteria are based on human health impacts, the Department shall still consider environmental impacts when establishing site specific cleanup criteria. This along with other site-specific factors including background conditions may result in site specific cleanup criteria which differ from the criteria listed below. Therefore, this list shall not be assumed to represent approval by the Department of any remedial action or to represent the Department's opinion that a site requires remediation.

Alternate Formats

This document is available in several other formats:

- Adobe Acrobat [pdf 45 Kb]
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Note: Material bracketed [thus] is deleted and material underlined thus is added

Contaminant	CASRN	Residential Direct Contact Soil Cleanup Criteria (a) (b) (RDCSCC)	Non- Residential Direct Contact Soil Cleanup Criteria (a) (b) (NRDCSCC)	Impact to Ground water Soil Cleanup Criteria (b) (IGWSCC)
Acenaphthene	83-32-9	3400	10000(c)	100
Acetone (2-propanone)	67-64-1	1000(d)	1000(d)	100
Acrylonitrile	107-13-1	1	5	1
Aldrin	309-00-2	0.040	0.17	50
Anthracene	120-12-7	10000(c)	10000(c)	100
Antimony	7440-36-0	14	340	(h)
Arsenic	7440-38-2	20 (e)	20 (e)	(h)
Barium	7440-39-3	700	47000(n)	(h)
Benzene	71-43-2	3	13	1
Benzo(b)fluoranthene (3,4-Benzofluoranthene)	205-99-2	0.9	4	50
Benzo(a)anthracene (1,2-Benzanthracene)	56-55-3	0.9	4	500

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Benzo(a)pyrene (BaP)	50-32-8	0.66(f)	0.66(f)	100
Benzo(k)fluoranthene	207-08-9	0.9	4	500
Benzyl Alcohol	100-51-6	10000(c)	10000(c)	50
Beryllium	7440-41-7	[1(f)] 2 (e)	[1(f)] 2 (e)	(h)
Bis(2-chloroethyl) ether	111-44-4	0.66(f)	3	10
Bis(2-chloroisopropyl)ether	108-60-1	2300	10000(c)	10
Bis(2-ethylhexyl) phthalate	117-81-7	49	210	100
Bromodichloromethane (Dichlorobromomethane)	75-27-4	11	46	1
Bromoform	75-25-2	86	370	1
Bromomethane (Methyl bromide)	74-83-9	79	1000 (d)	1
2-Butanone (Methyl ethyl ketone) (MEK)	78-93-3	1000 (d)	1000 (d)	50
Butylbenzyl phthalate	85-68-7	1100	10000 (c)	100
Cadmium	7440-43-9	[1] 39	100	(h)
Carbon tetrachloride	56-23-5	2 (k)	4 (k)	1
4-Chloroaniline (*p*-Chloroaniline)	106-47-8	230	4200	(r)
Chlorobenzene	108-90-7	37	680	1
Chloroform	67-66-3	19 (k)	28 (k)	1
4-Chloro-3-methyl phenol (*p*-Chloro-*m*-cresol)	59-50-7	10000 (c)	10000 (c)	100
Chloromethane (Methyl chloride)	74-87-3	520	1000 (d)	10
2-Chlorophenol (*o*-Chlorophenol)	95-57-8	280	5200	10
Chromium – hexavalent (VI)	18540-29-9	240; 270 (g); (i)	6100; 20 (g); (i)	(h)
Chromium – trivalent (III)	16065-83-1	120,000	(j)	(l)
Chrysene	218-01-9	9	40	500
Copper	7440-50-8	600 (m)	600 (m)	(h)
Cyanide	57-12-5	1100	21000 (o)	(h)
4,4'-DDD (p,p'-TDE)	72-54-8	3	12	50
4,4'-DDE (p,p'-DDX)	72-55-9	2	9	50
4,4'-DDT	50-29-3	2	9	500
Dibenz(a,h)anthracene	53-70-3	0.66 (f)	0.66 (f)	100
Dibromochloromethane (Chlorodibromomethane)	124-48-1	110	1000 (d)	1
Di-n-butyl phthalate	84-74-2	5700	10000 (c)	100
Di-n-octyl phthalate	117-84-0	1100	10000 (c)	100
1,2-Dichlorobenzene (*o*-Dichlorobenzene)	95-50-1	5100	10000 (c)	50
1,3-Dichlorobenzene (*m*-Dichlorobenzene)	541-73-1	5100	10000 (c)	100
1,4-Dichlorobenzene (*p*-Dichlorobenzene)	106-46-7	570	10000 (c)	100
3,3'-Dichlorobenzidine	91-94-1	2	6	100
1,1-Dichloroethane	75-34-3	570	1000 (d)	10

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1,2-Dichloroethane	107-06-2	6	24	1
1,1-Dichloroethene	75-35-4	8	150	10
1,2-Dichloroethene (trans)	156-60-5	1000 (d)	1000 (d)	50
1,2-Dichloroethene (cis)	156-59-2	79	1000 (d)	1
2,4-Dichlorophenol	120-83-2	170	3100	10
1,2-Dichloropropane	78-87-5	10	43	(r)
1,3-Dichloropropene(cis and trans)	542-75-6	4	5 (k)	1
Dieldrin	60-57-1	0.042	0.18	50
Diethyl phthalate	84-66-2	10000 (c)	10000 (c)	50
2,4-Dimethyl phenol	105-67-9	1100	10000 (c)	10
Dimethyl phthalate	131-11-3	10000 (c)	10000 (c)	50
2,4-Dinitrophenol	51-28-5	110	2100	10
Dinitrotoluene(2,4-/2,6-mixture)	25321-14-6	1 (l)	4 (l)	10 (l)
Endosulfan	115-29-7	340	6200	50
Endrin	72-20-8	17	310	50
Ethylbenzene	100-41-4	1000 (d)	1000 (d)	100
Fluoranthene	206-44-0	2300	10000 (c)	100
Fluorene	86-73-7	2300	10000 (c)	100
Heptachlor	76-44-8	0.15	0.65	50
Hexachlorobenzene	118-74-1	0.66 (f)	2	100
Hexachlorobutadiene	87-68-3	1	21	100
Hexachlorocyclopentadiene	77-47-4	400	7300	100
Hexachloroethane	67-72-1	6	100	100
Indeno(1,2,3-cd)pyrene	193-39-5	0.9	4	500
Isophorone	78-59-1	1100	10000 (c)	50
Lead	7439-92-1	400 (p)	600 (q)	(h)
Lindane (gamma BHC) (gamma HCH)	58-89-9	0.52	2.2	50
2-Methylphenol (*o*-creosol)	95-48-7	2800	10000 (c)	(r)
4-Methylphenol (*p*-creosol)	106-44-5	2800	10000 (c)	(r)
Methoxychlor	72-43-5	280	5200	50
Mercury	7439-97-6	14	270	(h)
4-Methyl-2-pentanone (MIBK)	108-10-1	1000 (d)	1000 (d)	50
Methylene chloride (Dichloromethane)	75-09-2	49	210	1
Naphthalene	91-20-3	230	4200	100
Nickel	7440-02-0	250	2400 (k) (n)	(h)
Nitrobenzene	98-95-3	28	520	10
N-Nitrosodiphenylamine	86-30-6	140	600	100
N-Nitrosodi-n-propylamine	621-64-7	0.66 (f)	0.66 (f)	10
PCBs (Polychlorinated biphenyls)	1336-36-3	0.49	2	50
Pentachlorophenol	87-86-5	6	24	100
Phenol	108-95-2	10000 (c)	10000 (c)	50

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Pyrene	129-00-0	1700	10000 (c)	100
Selenium	7782-49-2	63	3100 (n)	(h)
Silver	7440-22-4	110	4100 (n)	(h)
Styrene	100-42-5	23	97	100
1,1,1,2-Tetrachloroethane	630-20-6	170	310	1
1,1,2,2-Tetrachloroethane	79-34-5	34	70 (k)	1
Tetrachloroethene (Tetrachloroethylene) (PCE)	127-18-4	4 (k)	6 (k)	1
Thallium	7440-28-0	2 (f)	2 (f)	(h)
Toluene	108-88-3	1000 (d)	1000 (d)	500
Toxaphene	8001-35-2	0.10 (k)	0.2 (k)	50
1,2,4-Trichlorobenzene	120-82-1	68	1200	100
1,1,1-Trichloroethane	71-55-6	210	1000 (d)	50
1,1,2-Trichloroethane	79-00-5	22	420	1
Trichloroethene (Trichloroethylene) (TCE)	79-01-6	23	54 (k)	1
2,4,5-Trichlorophenol	95-95-4	5600	10000 (c)	50
2,4,6-Trichlorophenol	88-06-2	62	270	10
Vanadium	7440-62-2	370	7100 (n)	(h)
Vinyl chloride	75-01-4	2	7	10
Xylenes (Total)	1330-20-7	410	1000 (d)	[10] 67 (s)
Zinc	7440-66-6	1500 (m)	1500 (m)	(h)

Footnotes:

(a) Criteria are health based using an incidental ingestion exposure pathway except where noted below.

(b) Criteria are subject to change based on site specific factors (e.g., aquifer classification, soil type, natural background, environmental impacts, etc.).

(c) Health based criterion exceeds the 10,000 mg/kg maximum for total organic contaminants.

(d) Health based criterion exceeds the 1000 mg/kg maximum for total volatile organic contaminants.

(e) Cleanup standard proposal was based on natural background.

(f) Health based criterion is lower than analytical limits; cleanup criterion based on practical quantitation level.

(g) Criterion based on the inhalation exposure pathway.

(h) The impact to ground water values for inorganic constituents will be developed based upon site specific chemical and physical parameters.

(i) Site specific determination required for SCC for the allergic contact dermatitis exposure pathway.

(j) Contaminant not regulated for this exposure pathway.

(k) Criteria based on inhalation exposure pathway, which yielded a more stringent criterion than the incidental ingestion exposure pathway.

(l) No criterion derived for this contaminant.

(m) Criterion based on ecological (phytotoxicity) effects.

(n) Level of the human health based criterion is such that evaluation for potential environmental impacts on a site by site basis is recommended.

(o) Level of the criterion is such that evaluation for potential acute exposure hazard is recommended.

(p)

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Criterion based on the USEPA Integrated Exposure Uptake Biokinetic (IEUBK) model utilizing the default parameters. The concentration is considered to protect 95% of target population (children) at a blood lead level of 10 ug/dl.

(q) Criteria were derived from a model developed by the Society for Environmental Geochemistry and Health (SEGH) and were designed to be protective for adults in the workplace.

(r) Insufficient information available to calculate impact to ground water criteria.

(s) Criterion based on new drinking water standard.

To report an environmental incident impacting NJ, call the Toll-Free 24-Hour Hotline
1-877-WARNDEP / 1-877-927-6337

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Department of Environmental Protection
P. O. Box 402
Trenton, NJ 08625-0402

Last Updated: September 29, 2015

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 169240

Group Number(s): 1759018

Client: Eurofins QC

Delivery and Receipt Information

Delivery Method:	EQCL Drop Off	Arrival Timestamp:	11/30/2016 5:30
Number of Packages:	1	Number of Projects:	6

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Joseph Huber (7831) at 06:25 on 11/30/2016

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	2.2	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T : 717-656-2300
F : 717-656-2681
www.LancasterLabs.com

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mg**	milligram(s)
C	degrees Celsius	**mL**	milliliter(s)
cfu	colony forming units	**MPN**	Most Probable Number
CP Units	cobalt-chloroplatinate units	**N.D.**	none detected
F	degrees Fahrenheit	**ng**	nanogram(s)
g	gram(s)	**NTU**	nephelometric turbidity units
IU	International Units	**pg/L**	picogram/liter
kg	kilogram(s)	**RL**	Reporting Limit
L	liter(s)	**TNTC**	Too Numerous To Count
lb.	pound(s)	**µg**	microgram(s)
m3	cubic meter(s)	**µL**	microliter(s)
meq	milliequivalents	**umhos/cm**	micromhos/cm

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...
W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Additional Data Qualifiers

Qualifier	Definition
B	Detection in the Blank
Q0	LCS/LCSD Low
Q1	LCS/LCSD High
Q4	MS/MSD Out of Range
Q7	LCS/LCSD RPD
Q8	DUP RPD
Q9	MS/MSD RPD

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

WSP USA

Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

31401544.002 11.00

SGS Job Number: JD18939

Sampling Date: 01/12/21

Report to:

WSP USA

szois@lbgnj.com

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Total number of pages in report: 172

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

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General Manager

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Sample Summary

WSP USA

Job No: JD18939

Ridgewood Water, 579 Prospect Street, Glen Rock, NJ
Project No: 31401544.002 11.00

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JD18939-1	01/12/21	10:15	SZ	01/12/21	SO	Soil	S-10R
JD18939-2	01/12/21	10:30	SZ	01/12/21	SO	Soil	S-15R
JD18939-3	01/12/21	10:45	SZ	01/12/21	SO	Soil	S-18R

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	WSP USA	**Job No:**	JD18939
Site:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ	**Report Date**	1/19/2021 4:12:39 PM

On 01/12/2021, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.2 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD18939 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO **Batch ID:** OP31540

- All samples were extracted within the recommended method holding time.
- Sample(s) JD18961-8MS, JD18961-8MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, Hexachlorocyclopentadiene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, Hexachlorocyclopentadiene, Butyl benzyl phthalate, Di-n-butyl phthalate are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Recovery(s) for Phenanthrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MS/MSD for bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Di-n-butyl phthalate are outside control limits. Outside control limits due to matrix interference.
- JD18939-2 for 1,4-Dioxane: Associated CCV outside of control limits high, sample was ND.
- JD18939-1 for 1,4-Dioxane: Associated CCV outside of control limits high, sample was ND.
- JD18939-1 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- Matrix Spike Duplicate Recovery(s) for Benzo(a)anthracene, Chrysene, Fluoranthene, Phenanthrene, Pyrene are outside control limits.Outside control limits due to high level in sample relative to spike amount.
- JD18939-2 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD18939-2 for Di-n-octyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD18939-2 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD18939-3 for 1,4-Dioxane: Associated CCV outside of control limits high, sample was ND.
- JD18939-3 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD18939-3 for Di-n-octyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD18939-3 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD18939-1 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD18939-1 for Di-n-octyl phthalate: Associated CCV outside of control limits high, sample was ND.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO **Batch ID:** GN14813

- Sample(s) JD18877-7DUP were used as the QC samples for Solids, Percent.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD18939
Account: WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ
Collected: 01/12/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD18939-1	**S-10R**					
Acenaphthylene		46.5	37	19	ug/kg	SW846 8270E
Anthracene		45.6	37	23	ug/kg	SW846 8270E
Benzo(a)anthracene		218	37	10	ug/kg	SW846 8270E
Benzo(a)pyrene		213	37	17	ug/kg	SW846 8270E
Benzo(b)fluoranthene		260	37	16	ug/kg	SW846 8270E
Benzo(g,h,i)perylene		131	37	19	ug/kg	SW846 8270E
Benzo(k)fluoranthene		92.1	37	17	ug/kg	SW846 8270E
Carbazole		10.5 J	74	5.4	ug/kg	SW846 8270E
Chrysene		224	37	12	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene		35.2 J	37	16	ug/kg	SW846 8270E
Fluoranthene		333	37	17	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		135	37	17	ug/kg	SW846 8270E
Naphthalene		17.6 J	37	10	ug/kg	SW846 8270E
Phenanthrene		130	37	12	ug/kg	SW846 8270E
Pyrene		381	37	12	ug/kg	SW846 8270E
Total TIC, Semi-Volatile		160 J			ug/kg	
JD18939-2	**S-15R**					
Acenaphthene		102	41	14	ug/kg	SW846 8270E
Acenaphthylene		62.6	41	21	ug/kg	SW846 8270E
Anthracene		278	41	25	ug/kg	SW846 8270E
Benzo(a)anthracene		750	41	12	ug/kg	SW846 8270E
Benzo(a)pyrene		744	41	19	ug/kg	SW846 8270E
Benzo(b)fluoranthene		986	41	18	ug/kg	SW846 8270E
Benzo(g,h,i)perylene		511	41	21	ug/kg	SW846 8270E
Benzo(k)fluoranthene		302	41	19	ug/kg	SW846 8270E
1,1'-Biphenyl		11.2 J	83	5.7	ug/kg	SW846 8270E
Carbazole		105	83	6.0	ug/kg	SW846 8270E
Chrysene		853	41	13	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene		132	41	18	ug/kg	SW846 8270E
Dibenzofuran		58.5 J	83	17	ug/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		96.9	83	9.7	ug/kg	SW846 8270E
Fluoranthene		1620	41	18	ug/kg	SW846 8270E
Fluorene		130	41	19	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		523	41	19	ug/kg	SW846 8270E
2-Methylnaphthalene		35.5 J	41	9.3	ug/kg	SW846 8270E
Naphthalene		26.8 J	41	12	ug/kg	SW846 8270E
Phenanthrene		981	41	14	ug/kg	SW846 8270E
Pyrene		1480	41	13	ug/kg	SW846 8270E
Total TIC, Semi-Volatile		47560 J			ug/kg	

Summary of Hits

Job Number: JD18939
Account: WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ
Collected: 01/12/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD18939-3	**S-18R**					
Acenaphthene		18.8 J	45	15	ug/kg	SW846 8270E
Acenaphthylene		65.7	45	23	ug/kg	SW846 8270E
Anthracene		187	45	27	ug/kg	SW846 8270E
Benzo(a)anthracene		873	45	13	ug/kg	SW846 8270E
Benzo(a)pyrene		852	45	20	ug/kg	SW846 8270E
Benzo(b)fluoranthene		1040	45	20	ug/kg	SW846 8270E
Benzo(g,h,i)perylene		598	45	22	ug/kg	SW846 8270E
Benzo(k)fluoranthene		307	45	21	ug/kg	SW846 8270E
Carbazole		54.2 J	89	6.5	ug/kg	SW846 8270E
Chrysene		852	45	14	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene		155	45	20	ug/kg	SW846 8270E
Fluoranthene		1580	45	20	ug/kg	SW846 8270E
Fluorene		26.0 J	45	21	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		597	45	21	ug/kg	SW846 8270E
Phenanthrene		533	45	15	ug/kg	SW846 8270E
Pyrene		1570	45	14	ug/kg	SW846 8270E
Total TIC, Semi-Volatile		5030 J			ug/kg	

Sample Results

Report of Analysis

SGS LabLink@1090954 10:26 21-Jan-2021

Report of Analysis

Client Sample ID:	S-10R		
Lab Sample ID:	JD18939-1	**Date Sampled:**	01/12/21
Matrix:	SO - Soil	**Date Received:**	01/12/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.3
Project:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P98996.D	1	01/15/21 20:00	HSS	01/15/21 10:15	OP31540	E2P4412
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	74	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	32	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	66	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	40	ug/kg	
95-48-7	2-Methylphenol	ND	74	24	ug/kg	
	3&4-Methylphenol	ND	74	30	ug/kg	
88-75-5	2-Nitrophenol	ND	190	25	ug/kg	
100-02-7	4-Nitrophenol	ND	370	99	ug/kg	
87-86-5	Pentachlorophenol	ND	150	35	ug/kg	
108-95-2	Phenol	ND	74	19	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	25	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	22	ug/kg	
83-32-9	Acenaphthene	ND	37	13	ug/kg	
208-96-8	Acenaphthylene	46.5	37	19	ug/kg	
98-86-2	Acetophenone	ND	190	8.0	ug/kg	
120-12-7	Anthracene	45.6	37	23	ug/kg	
1912-24-9	Atrazine	ND	74	16	ug/kg	
56-55-3	Benzo(a)anthracene	218	37	10	ug/kg	
50-32-8	Benzo(a)pyrene	213	37	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	260	37	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	131	37	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	92.1	37	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	74	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	74	9.0	ug/kg	
92-52-4	1,1'-Biphenyl	ND	74	5.1	ug/kg	
100-52-7	Benzaldehyde	ND	190	9.2	ug/kg	
91-58-7	2-Chloronaphthalene	ND	74	8.8	ug/kg	
106-47-8	4-Chloroaniline	ND	190	13	ug/kg	
86-74-8	Carbazole	10.5	74	5.4	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-10R		
Lab Sample ID:	JD18939-1	**Date Sampled:**	01/12/21
Matrix:	SO - Soil	**Date Received:**	01/12/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.3
Project:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	74	15	ug/kg	
218-01-9	Chrysene	224	37	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	74	7.9	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	74	16	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	74	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	74	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	37	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	37	19	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	74	31	ug/kg	
123-91-1	1,4-Dioxane [a]	ND	37	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	35.2	37	16	ug/kg	J
132-64-9	Dibenzofuran	ND	74	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	74	6.0	ug/kg	
117-84-0	Di-n-octyl phthalate [a]	ND	74	9.2	ug/kg	
84-66-2	Diethyl phthalate	ND	74	7.9	ug/kg	
131-11-3	Dimethyl phthalate	ND	74	6.6	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	74	8.7	ug/kg	
206-44-0	Fluoranthene	333	37	17	ug/kg	
86-73-7	Fluorene	ND	37	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	74	9.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	370	15	ug/kg	
67-72-1	Hexachloroethane	ND	190	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	135	37	17	ug/kg	
78-59-1	Isophorone	ND	74	7.9	ug/kg	
91-57-6	2-Methylnaphthalene	ND	37	8.4	ug/kg	
88-74-4	2-Nitroaniline [a]	ND	190	8.7	ug/kg	
99-09-2	3-Nitroaniline	ND	190	9.3	ug/kg	
100-01-6	4-Nitroaniline	ND	190	9.6	ug/kg	
91-20-3	Naphthalene	17.6	37	10	ug/kg	J
98-95-3	Nitrobenzene	ND	74	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	74	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	14	ug/kg	
85-01-8	Phenanthrene	130	37	12	ug/kg	
129-00-0	Pyrene	381	37	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	9.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-10R		
Lab Sample ID:	JD18939-1	**Date Sampled:**	01/12/21
Matrix:	SO - Soil	**Date Received:**	01/12/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.3
Project:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	50%		12-101%
118-79-6	2,4,6-Tribromophenol	64%		10-127%
4165-60-0	Nitrobenzene-d5	69%		15-114%
321-60-8	2-Fluorobiphenyl	58%		22-104%
1718-51-0	Terphenyl-d14	75%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact/aldol-condensation	3.22	190	ug/kg	J
	Unknown PAH substance	15.58	160	ug/kg	J
	Total TIC, Semi-Volatile		160	ug/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1090954 10:26 21-Jan-2021

Report of Analysis

Client Sample ID: S-15R
Lab Sample ID: JD18939-2
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Date Sampled: 01/12/21
Date Received: 01/12/21
Percent Solids: 78.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P99000.D	1	01/15/21 21:44	HSS	01/15/21 10:15	OP31540	E2P4412
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	83	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	25	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	35	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	74	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	210	160	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	210	44	ug/kg	
95-48-7	2-Methylphenol	ND	83	26	ug/kg	
	3&4-Methylphenol	ND	83	34	ug/kg	
88-75-5	2-Nitrophenol	ND	210	27	ug/kg	
100-02-7	4-Nitrophenol	ND	410	110	ug/kg	
87-86-5	Pentachlorophenol	ND	170	39	ug/kg	
108-95-2	Phenol	ND	83	22	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	210	27	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	31	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	25	ug/kg	
83-32-9	Acenaphthene	102	41	14	ug/kg	
208-96-8	Acenaphthylene	62.6	41	21	ug/kg	
98-86-2	Acetophenone	ND	210	8.9	ug/kg	
120-12-7	Anthracene	278	41	25	ug/kg	
1912-24-9	Atrazine	ND	83	18	ug/kg	
56-55-3	Benzo(a)anthracene	750	41	12	ug/kg	
50-32-8	Benzo(a)pyrene	744	41	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	986	41	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	511	41	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	302	41	19	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	83	16	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	83	10	ug/kg	
92-52-4	1,1'-Biphenyl	11.2	83	5.7	ug/kg	J
100-52-7	Benzaldehyde	ND	210	10	ug/kg	
91-58-7	2-Chloronaphthalene	ND	83	9.8	ug/kg	
106-47-8	4-Chloroaniline	ND	210	15	ug/kg	
86-74-8	Carbazole	105	83	6.0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-15R		
Lab Sample ID:	JD18939-2	**Date Sampled:**	01/12/21
Matrix:	SO - Soil	**Date Received:**	01/12/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	78.8
Project:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	83	16	ug/kg	
218-01-9	Chrysene	853	41	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	83	8.8	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	83	18	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	83	15	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	83	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	41	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	41	21	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	83	34	ug/kg	
123-91-1	1,4-Dioxane [a]	ND	41	27	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	132	41	18	ug/kg	
132-64-9	Dibenzofuran	58.5	83	17	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	83	6.7	ug/kg	
117-84-0	Di-n-octyl phthalate [a]	ND	83	10	ug/kg	
84-66-2	Diethyl phthalate	ND	83	8.8	ug/kg	
131-11-3	Dimethyl phthalate	ND	83	7.4	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	96.9	83	9.7	ug/kg	
206-44-0	Fluoranthene	1620	41	18	ug/kg	
86-73-7	Fluorene	130	41	19	ug/kg	
118-74-1	Hexachlorobenzene	ND	83	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	41	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	410	16	ug/kg	
67-72-1	Hexachloroethane	ND	210	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	523	41	19	ug/kg	
78-59-1	Isophorone	ND	83	8.8	ug/kg	
91-57-6	2-Methylnaphthalene	35.5	41	9.3	ug/kg	J
88-74-4	2-Nitroaniline [a]	ND	210	9.8	ug/kg	
99-09-2	3-Nitroaniline	ND	210	10	ug/kg	
100-01-6	4-Nitroaniline	ND	210	11	ug/kg	
91-20-3	Naphthalene	26.8	41	12	ug/kg	J
98-95-3	Nitrobenzene	ND	83	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	83	12	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	15	ug/kg	
85-01-8	Phenanthrene	981	41	14	ug/kg	
129-00-0	Pyrene	1480	41	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	210	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: S-15R
Lab Sample ID: JD18939-2
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Date Sampled: 01/12/21
Date Received: 01/12/21
Percent Solids: 78.8

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	47%		12-101%
118-79-6	2,4,6-Tribromophenol	54%		10-127%
4165-60-0	Nitrobenzene-d5	58%		15-114%
321-60-8	2-Fluorobiphenyl	49%		22-104%
1718-51-0	Terphenyl-d14	57%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Bisnorabieta-pentaene	11.48	650	ug/kg	J
	Alkane	14.68	1200	ug/kg	J
	Unknown	15.13	580	ug/kg	J
	Unknown	15.34	350	ug/kg	J
	Alkane	15.62	4100	ug/kg	J
	Unknown	16.06	490	ug/kg	J
	Unknown	16.26	680	ug/kg	J
	Unknown	16.46	880	ug/kg	J
	Alkane	16.50	3100	ug/kg	J
	Unknown	16.56	1500	ug/kg	J
	Unknown	16.83	450	ug/kg	J
	Unknown	16.93	460	ug/kg	J
83-48-7	Stigmasterol	17.36	620	ug/kg	JN
	Alkane	17.43	440	ug/kg	J
	Sitosterol	17.69	5800	ug/kg	J
	Unknown	17.85	1200	ug/kg	J
	Unknown	17.96	3400	ug/kg	J
	Unknown	18.04	3100	ug/kg	J
	Unknown	18.17	450	ug/kg	J
	Unknown	18.25	5000	ug/kg	J
	Unknown	18.34	1800	ug/kg	J
	Stigmastenone	18.46	2000	ug/kg	J
	Unknown	18.68	1200	ug/kg	J
	Unknown	18.77	710	ug/kg	J
	Unknown	19.19	7400	ug/kg	J
	Total TIC, Semi-Volatile		47560	ug/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1090954 10:26 21-Jan-2021

Report of Analysis

Client Sample ID: S-18R
Lab Sample ID: JD18939-3
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Date Sampled: 01/12/21
Date Received: 01/12/21
Percent Solids: 70.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P99001.D	1	01/15/21 22:09	HSS	01/15/21 10:15	OP31540	E2P4412
Run #2							

	Initial Weight	Final Volume
Run #1	31.6 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	89	22	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	27	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	38	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	80	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	220	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	220	48	ug/kg	
95-48-7	2-Methylphenol	ND	89	29	ug/kg	
	3&4-Methylphenol	ND	89	37	ug/kg	
88-75-5	2-Nitrophenol	ND	220	30	ug/kg	
100-02-7	4-Nitrophenol	ND	450	120	ug/kg	
87-86-5	Pentachlorophenol	ND	180	42	ug/kg	
108-95-2	Phenol	ND	89	23	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	220	30	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	27	ug/kg	
83-32-9	Acenaphthene	18.8	45	15	ug/kg	J
208-96-8	Acenaphthylene	65.7	45	23	ug/kg	
98-86-2	Acetophenone	ND	220	9.6	ug/kg	
120-12-7	Anthracene	187	45	27	ug/kg	
1912-24-9	Atrazine	ND	89	19	ug/kg	
56-55-3	Benzo(a)anthracene	873	45	13	ug/kg	
50-32-8	Benzo(a)pyrene	852	45	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	1040	45	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	598	45	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	307	45	21	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	89	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	89	11	ug/kg	
92-52-4	1,1'-Biphenyl	ND	89	6.1	ug/kg	
100-52-7	Benzaldehyde	ND	220	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	89	11	ug/kg	
106-47-8	4-Chloroaniline	ND	220	16	ug/kg	
86-74-8	Carbazole	54.2	89	6.5	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-18R		
Lab Sample ID:	JD18939-3	**Date Sampled:**	01/12/21
Matrix:	SO - Soil	**Date Received:**	01/12/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	70.8
Project:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	89	18	ug/kg	
218-01-9	Chrysene	852	45	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	89	9.6	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	89	19	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	89	16	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	89	14	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	45	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	45	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	89	37	ug/kg	
123-91-1	1,4-Dioxane [a]	ND	45	30	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	155	45	20	ug/kg	
132-64-9	Dibenzofuran	ND	89	18	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	89	7.3	ug/kg	
117-84-0	Di-n-octyl phthalate [a]	ND	89	11	ug/kg	
84-66-2	Diethyl phthalate	ND	89	9.5	ug/kg	
131-11-3	Dimethyl phthalate	ND	89	8.0	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	89	10	ug/kg	
206-44-0	Fluoranthene	1580	45	20	ug/kg	
86-73-7	Fluorene	26.0	45	21	ug/kg	J
118-74-1	Hexachlorobenzene	ND	89	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	45	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	450	18	ug/kg	
67-72-1	Hexachloroethane	ND	220	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	597	45	21	ug/kg	
78-59-1	Isophorone	ND	89	9.6	ug/kg	
91-57-6	2-Methylnaphthalene	ND	45	10	ug/kg	
88-74-4	2-Nitroaniline [a]	ND	220	11	ug/kg	
99-09-2	3-Nitroaniline	ND	220	11	ug/kg	
100-01-6	4-Nitroaniline	ND	220	12	ug/kg	
91-20-3	Naphthalene	ND	45	13	ug/kg	
98-95-3	Nitrobenzene	ND	89	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	89	13	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	16	ug/kg	
85-01-8	Phenanthrene	533	45	15	ug/kg	
129-00-0	Pyrene	1570	45	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	220	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-18R		
Lab Sample ID:	JD18939-3	**Date Sampled:**	01/12/21
Matrix:	SO - Soil	**Date Received:**	01/12/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	70.8
Project:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	47%		12-101%
118-79-6	2,4,6-Tribromophenol	58%		10-127%
4165-60-0	Nitrobenzene-d5	60%		15-114%
321-60-8	2-Fluorobiphenyl	51%		22-104%
1718-51-0	Terphenyl-d14	63%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact/aldol-condensation	3.22	730	ug/kg	J
	Unknown	4.00	190	ug/kg	J
	Cyclopentaphenanthrenone	11.24	190	ug/kg	J
	Unknown PAH substance	15.61	1000	ug/kg	J
	Unknown	16.26	280	ug/kg	J
	Unknown	16.46	250	ug/kg	J
	Alkane	16.50	490	ug/kg	J
	Unknown	16.83	200	ug/kg	J
	Unknown	17.67	940	ug/kg	J
	Unknown	18.02	340	ug/kg	J
	Unknown	18.45	340	ug/kg	J
	Unknown	19.15	810	ug/kg	J
	Total TIC, Semi-Volatile		5030	ug/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

GW
SO

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

Page 1 of 1

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: JD 18939

Client / Reporting Information

Company Name: WSP USA
Street Address: 600 E Crescent Ave
City: USR State: NJ Zip: 07456
Project Contact: Jonas.Holliss@wsp.com E-mail:
Phone #: 201-739-2367
Sampler(s) Name(s): Spiros Zois Phone #: 201-324-6594

Project Information

Project Name: Ridgewood Water Prospect Street Soil
Street: Prospect St
City: Glen Rock State: NJ
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (If different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis

ABB270TCL20+

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
1	S-10R		1/12/21	1015	SZ	G	GW	1					1				X
2	S-15R			1030													B10
3	S-18R			1045													

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Labilink * Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [X] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [X] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASSESSMENT 313-DP
LABEL VERIFICATION

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:
1		1/12/21 1400	1
2		1/12/21 1706	2
3			3
4			4
5			5

Custody Seal # | Intact | Not Intact | Preserved where applicable | Absent | Therm. ID: | On Ice | Cooler Temp. °C: X 3.7 CP

EHSA-QAC-0023-02-FORM-Dayton - Standard COC.xlsx

5.1 5

JD18939: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD18939 **Client:** WSP USA **Project:** RIDGEWOOD WATER

Date / Time Received: 1/12/2021 5:06:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.7);

Cooler Temps (Corrected) °C: Cooler 1: (3.2);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD18939: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

WSP USA

Job No: JD18939

Ridgewood Water, 579 Prospect Street, Glen Rock, NJ
Project No: 31401544.002 11.00

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD18939-1	Collected: 12-JAN-21 10:15 By: SZ		Received: 12-JAN-21 By: JP			
S-10R						
JD18939-1	SM2540 G 18TH ED MOD.	13-JAN-21 16:37	BG			SOL104
JD18939-1	SW846 8270E	15-JAN-21 20:00	HSS	15-JAN-21	BB	AB8270TCL20+
JD18939-2	Collected: 12-JAN-21 10:30 By: SZ		Received: 12-JAN-21 By: JP			
S-15R						
JD18939-2	SM2540 G 18TH ED MOD.	13-JAN-21 16:37	BG			SOL104
JD18939-2	SW846 8270E	15-JAN-21 21:44	HSS	15-JAN-21	BB	AB8270TCL20+
JD18939-3	Collected: 12-JAN-21 10:45 By: SZ		Received: 12-JAN-21 By: JP			
S-18R						
JD18939-3	SM2540 G 18TH ED MOD.	13-JAN-21 16:37	BG			SOL104
JD18939-3	SW846 8270E	15-JAN-21 22:09	HSS	15-JAN-21	BB	AB8270TCL20+

SGS Internal Chain of Custody

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ
Received: 01/12/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD18939-1.1	Manish Kewalramani	Secured Storage	01/12/21 21:12	Return to Storage
JD18939-1.1	Secured Storage	Benjamin Gaines	01/13/21 09:19	Retrieve from Storage
JD18939-1.1	Benjamin Gaines	Secured Staging Area	01/13/21 09:19	Return to Storage
JD18939-1.1	Secured Staging Area	Benjamin Gaines	01/13/21 09:20	Retrieve from Storage
JD18939-1.1	Benjamin Gaines	Secured Storage	01/13/21 13:04	Return to Storage
JD18939-1.1	Tyler Strong	Secured Staging Area	01/14/21 19:20	Return to Storage
Stage				
JD18939-1.1	Secured Staging Area	Chatiyah Canaday	01/15/21 08:26	Retrieve from Storage
JD18939-1.1	Chatiyah Canaday	Secured Storage	01/15/21 14:39	Return to Storage
JD18939-1.1.1	Chatiyah Canaday	Organics Prep	01/15/21 08:42	Extract from JD18939-1.1
JD18939-1.1.1	Organics Prep	Brian Bass	01/15/21 14:23	Extract from JD18939-1.1
JD18939-1.1.1	Brian Bass	Extract Storage	01/15/21 14:23	Return to Storage
JD18939-1.1.1	Extract Storage	Henny Salim	01/15/21 15:06	Retrieve from Storage
JD18939-1.1.1	Henny Salim	GCMS2P	01/15/21 15:06	Load on Instrument
JD18939-1.1.1	GCMS2P	Henny Salim	01/19/21 17:00	Unload from Instrument
JD18939-1.1.1	Henny Salim	Extract Freezer	01/19/21 17:00	Return to Storage
JD18939-2.1	Manish Kewalramani	Secured Storage	01/12/21 21:12	Return to Storage
JD18939-2.1	Secured Storage	Benjamin Gaines	01/13/21 09:19	Retrieve from Storage
JD18939-2.1	Benjamin Gaines	Secured Staging Area	01/13/21 09:19	Return to Storage
JD18939-2.1	Secured Staging Area	Benjamin Gaines	01/13/21 09:20	Retrieve from Storage
JD18939-2.1	Benjamin Gaines	Secured Storage	01/13/21 13:04	Return to Storage
JD18939-2.1	Tyler Strong	Secured Staging Area	01/14/21 19:20	Return to Storage
Stage				
JD18939-2.1	Secured Staging Area	Chatiyah Canaday	01/15/21 08:26	Retrieve from Storage
JD18939-2.1	Chatiyah Canaday	Secured Storage	01/15/21 14:39	Return to Storage
JD18939-2.1.1	Chatiyah Canaday	Organics Prep	01/15/21 08:42	Extract from JD18939-2.1
JD18939-2.1.1	Organics Prep	Brian Bass	01/15/21 14:23	Extract from JD18939-2.1
JD18939-2.1.1	Brian Bass	Extract Storage	01/15/21 14:23	Return to Storage
JD18939-2.1.1	Extract Storage	Henny Salim	01/15/21 15:06	Retrieve from Storage
JD18939-2.1.1	Henny Salim	GCMS2P	01/15/21 15:06	Load on Instrument
JD18939-2.1.1	GCMS2P	Henny Salim	01/19/21 17:00	Unload from Instrument
JD18939-2.1.1	Henny Salim	Extract Freezer	01/19/21 17:00	Return to Storage
JD18939-3.1	Manish Kewalramani	Secured Storage	01/12/21 21:12	Return to Storage
JD18939-3.1	Secured Storage	Benjamin Gaines	01/13/21 09:19	Retrieve from Storage
JD18939-3.1	Benjamin Gaines	Secured Staging Area	01/13/21 09:19	Return to Storage
JD18939-3.1	Secured Staging Area	Benjamin Gaines	01/13/21 09:20	Retrieve from Storage
JD18939-3.1	Benjamin Gaines	Secured Storage	01/13/21 13:04	Return to Storage
JD18939-3.1	Tyler Strong	Secured Staging Area	01/14/21 19:20	Return to Storage
Stage				
JD18939-3.1	Secured Staging Area	Chatiyah Canaday	01/15/21 08:26	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ
Received: 01/12/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD18939-3.1	Chatiyah Canaday	Secured Storage	01/15/21 14:39	Return to Storage
JD18939-3.1.1	Chatiyah Canaday	Organics Prep	01/15/21 08:42	Extract from JD18939-3.1
JD18939-3.1.1	Organics Prep	Brian Bass	01/15/21 14:23	Extract from JD18939-3.1
JD18939-3.1.1	Brian Bass	Extract Storage	01/15/21 14:23	Return to Storage
JD18939-3.1.1	Extract Storage	Henny Salim	01/15/21 15:06	Retrieve from Storage
JD18939-3.1.1	Henny Salim	GCMS2P	01/15/21 15:06	Load on Instrument
JD18939-3.1.1	GCMS2P	Henny Salim	01/19/21 17:00	Unload from Instrument
JD18939-3.1.1	Henny Salim	Extract Freezer	01/19/21 17:00	Return to Storage

MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-MB1	2P98985.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	28	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	36	ug/kg	
95-48-7	2-Methylphenol	ND	67	21	ug/kg	
	3&4-Methylphenol	ND	67	27	ug/kg	
88-75-5	2-Nitrophenol	ND	170	22	ug/kg	
100-02-7	4-Nitrophenol	ND	330	89	ug/kg	
87-86-5	Pentachlorophenol	ND	130	31	ug/kg	
108-95-2	Phenol	ND	67	17	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	25	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
98-86-2	Acetophenone	ND	170	7.2	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
1912-24-9	Atrazine	ND	67	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	8.1	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	7.9	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	67	4.8	ug/kg	
105-60-2	Caprolactam	ND	67	13	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	14	ug/kg	

Method Blank Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-MB1	2P98985.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	67	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	10	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	28	ug/kg	
123-91-1	1,4-Dioxane	ND	33	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
132-64-9	Dibenzofuran	ND	67	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	5.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	8.3	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	5.9	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.8	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	13	ug/kg	
67-72-1	Hexachloroethane	ND	170	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
78-59-1	Isophorone	ND	67	7.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	33	7.5	ug/kg	
88-74-4	2-Nitroaniline	ND	170	7.9	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.3	ug/kg	
100-01-6	4-Nitroaniline	ND	170	8.6	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
98-95-3	Nitrobenzene	ND	67	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	9.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	12	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.5	ug/kg	

Method Blank Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-MB1	2P98985.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	71%	7-101%
4165-62-2	Phenol-d5	71%	12-101%
118-79-6	2,4,6-Tribromophenol	79%	10-127%
4165-60-0	Nitrobenzene-d5	90%	15-114%
321-60-8	2-Fluorobiphenyl	85%	22-104%
1718-51-0	Terphenyl-d14	84%	23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact	1.90	340	ug/kg	J
	System artifact/aldol-condensation	3.21	210	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-BS1	2P98987.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
OP31540-BSD	2P98988.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	1670	1020	61	1030	62	1	26-121/16
59-50-7	4-Chloro-3-methyl phenol	1670	1130	68	1120	67	1	26-138/17
120-83-2	2,4-Dichlorophenol	1670	1100	66	1110	67	1	26-130/19
105-67-9	2,4-Dimethylphenol	1670	1190	71	1200	72	1	28-144/18
51-28-5	2,4-Dinitrophenol	3330	2390	72	2340	70	2	31-146/21
534-52-1	4,6-Dinitro-o-cresol	1670	1090	65	1080	65	1	22-150/20
95-48-7	2-Methylphenol	1670	1020	61	1000	60	2	23-128/20
	3&4-Methylphenol	1670	982	59	960	58	2	24-133/25
88-75-5	2-Nitrophenol	1670	1060	64	1070	64	1	29-137/20
100-02-7	4-Nitrophenol	1670	1390	83	1350	81	3	21-144/23
87-86-5	Pentachlorophenol	1670	973	58	1050	63	8	24-152/22
108-95-2	Phenol	1670	1060	64	1050	63	1	40-101/22
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1210	73	1210	73	0	30-136/22
95-95-4	2,4,5-Trichlorophenol	1670	1230	74	1220	73	1	26-137/20
88-06-2	2,4,6-Trichlorophenol	1670	1170	70	1180	71	1	28-137/21
83-32-9	Acenaphthene	1670	1150	69	1160	70	1	24-129/16
208-96-8	Acenaphthylene	1670	1120	67	1110	67	1	25-130/17
98-86-2	Acetophenone	1670	1140	68	1140	68	0	44-100/24
120-12-7	Anthracene	1670	1120	67	1140	68	2	28-131/18
1912-24-9	Atrazine	1670	1300	78	1270	76	2	17-165/19
56-55-3	Benzo(a)anthracene	1670	1100	66	1090	65	1	30-130/20
50-32-8	Benzo(a)pyrene	1670	1160	70	1180	71	2	27-139/20
205-99-2	Benzo(b)fluoranthene	1670	1170	70	1260	76	7	32-133/21
191-24-2	Benzo(g,h,i)perylene	1670	1120	67	1140	68	2	24-141/23
207-08-9	Benzo(k)fluoranthene	1670	1210	73	1130	68	7	26-135/21
101-55-3	4-Bromophenyl phenyl ether	1670	1090	65	1110	67	2	25-137/19
85-68-7	Butyl benzyl phthalate	1670	1120	67	1110	67	1	28-142/23
92-52-4	1,1'-Biphenyl	1670	1210	73	1220	73	1	22-129/17
100-52-7	Benzaldehyde	1670	982	59	928	56	6	4-116/23
91-58-7	2-Chloronaphthalene	1670	1170	70	1180	71	1	22-126/20
106-47-8	4-Chloroaniline	1670	557	33	601	36	8	8-85/59
86-74-8	Carbazole	1670	1150	69	1140	68	1	29-135/18
105-60-2	Caprolactam	1670	1080	65	1030	62	5	21-138/20
218-01-9	Chrysene	1670	1030	62	1020	61	1	29-127/20
111-91-1	bis(2-Chloroethoxy)methane	1670	1010	61	1030	62	2	23-128/19
111-44-4	bis(2-Chloroethyl)ether	1670	992	60	1030	62	4	28-121/23

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-BS1	2P98987.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
OP31540-BSD	2P98988.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
108-60-1	2,2'-Oxybis(1-chloropropane)	1670	1120	67	1110	67	1	25-147/18
7005-72-3	4-Chlorophenyl phenyl ether	1670	1190	71	1200	72	1	24-133/20
121-14-2	2,4-Dinitrotoluene	1670	1240	74	1230	74	1	31-135/20
606-20-2	2,6-Dinitrotoluene	1670	1230	74	1210	73	2	31-138/19
91-94-1	3,3'-Dichlorobenzidine	3330	1620	49	1800	54	11	16-110/41
123-91-1	1,4-Dioxane	1670	965	58	983	59	2	6-81/34
53-70-3	Dibenzo(a,h)anthracene	1670	1110	67	1130	68	2	24-135/23
132-64-9	Dibenzofuran	1670	1240	74	1240	74	0	26-133/17
84-74-2	Di-n-butyl phthalate	1670	1190	71	1210	73	2	27-141/24
117-84-0	Di-n-octyl phthalate	1670	1270	76	1310	79	3	28-143/21
84-66-2	Diethyl phthalate	1670	1280	77	1280	77	0	26-135/25
131-11-3	Dimethyl phthalate	1670	1200	72	1190	71	1	26-130/19
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1170	70	1160	70	1	44-122/21
206-44-0	Fluoranthene	1670	1190	71	1180	71	1	31-134/23
86-73-7	Fluorene	1670	1230	74	1230	74	0	26-136/18
118-74-1	Hexachlorobenzene	1670	1140	68	1160	70	2	22-136/19
87-68-3	Hexachlorobutadiene	1670	1290	77	1340	80	4	18-137/18
77-47-4	Hexachlorocyclopentadiene	3330	2170	65	2280	68	5	22-131/21
67-72-1	Hexachloroethane	1670	1090	65	1090	65	0	19-121/25
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1230	74	1240	74	1	26-137/25
78-59-1	Isophorone	1670	1150	69	1160	70	1	29-128/25
91-57-6	2-Methylnaphthalene	1670	1260	76	1290	77	2	28-132/16
88-74-4	2-Nitroaniline	1670	1580	95	1570	94	1	16-154/18
99-09-2	3-Nitroaniline	1670	894	54	947	57	6	20-105/62
100-01-6	4-Nitroaniline	1670	1220	73	1180	71	3	30-134/21
91-20-3	Naphthalene	1670	1150	69	1160	70	1	26-127/19
98-95-3	Nitrobenzene	1670	1260	76	1280	77	2	21-130/19
621-64-7	N-Nitroso-di-n-propylamine	1670	1130	68	1130	68	0	27-124/26
86-30-6	N-Nitrosodiphenylamine	1670	1060	64	1050	63	1	27-133/19
85-01-8	Phenanthrene	1670	1130	68	1140	68	1	26-131/19
129-00-0	Pyrene	1670	1060	64	1050	63	1	30-131/24
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1230	74	1270	76	3	8-129/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-BS1	2P98987.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
OP31540-BSD	2P98988.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	65%	65%	7-101%
4165-62-2	Phenol-d5	67%	66%	12-101%
118-79-6	2,4,6-Tribromophenol	69%	69%	10-127%
4165-60-0	Nitrobenzene-d5	82%	84%	15-114%
321-60-8	2-Fluorobiphenyl	76%	78%	22-104%
1718-51-0	Terphenyl-d14	70%	70%	23-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-MS	2P99002.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
OP31540-MSD	2P99003.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
JD18961-8	2P99004.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
JD18961-8	2P99009.D	10	01/19/21	KLS	01/15/21	OP31540	E2P4413

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Compound	JD18961-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		1840	765	41	1860	946	51	21	10-129/65
59-50-7	4-Chloro-3-methyl phenol	ND		1840	860	47	1860	1100	59	24	10-147/63
120-83-2	2,4-Dichlorophenol	ND		1840	763	41	1860	1060	57	33	10-140/64
105-67-9	2,4-Dimethylphenol	ND		1840	902	49	1860	1120	60	22	10-151/64
51-28-5	2,4-Dinitrophenol	ND		3690	296	8* [a]	3710	277	7* [a]	7	10-127/71
534-52-1	4,6-Dinitro-o-cresol	ND		1840	144	8* [a]	1860	133	7* [a]	8	10-148/77
95-48-7	2-Methylphenol	ND		1840	791	43	1860	986	53	22	10-136/62
	3&4-Methylphenol	ND		1840	787	43	1860	1010	54	25	10-137/63
88-75-5	2-Nitrophenol	ND		1840	757	41	1860	931	50	21	10-147/69
100-02-7	4-Nitrophenol	ND		1840	921	50	1860	935	50	2	10-157/64
87-86-5	Pentachlorophenol	ND		1840	729	40	1860	954	51	27	10-164/65
108-95-2	Phenol	ND		1840	827	45	1860	995	54	18	3-110/61
58-90-2	2,3,4,6-Tetrachlorophenol	ND		1840	799	43	1860	980	53	20	10-146/67
95-95-4	2,4,5-Trichlorophenol	ND		1840	764	41	1860	911	49	18	10-144/66
88-06-2	2,4,6-Trichlorophenol	ND		1840	747	41	1860	959	52	25	10-148/67
83-32-9	Acenaphthene	1570		1840	2440	47	1860	2890	71	17	10-145/63
208-96-8	Acenaphthylene	4550 [b]		1840	7190	54	1860	7850	89	9	10-144/59
98-86-2	Acetophenone	ND		1840	894	48	1860	1160	62	26	5-120/56
120-12-7	Anthracene	5570 [b]		1840	8980	47	1860	10100	107	12	10-153/66
1912-24-9	Atrazine	ND		1840	941	51	1860	1050	57	11	10-163/50
56-55-3	Benzo(a)anthracene	10400 [b]		1840	13600	38	1860	15900	162* [c]	16	10-157/71
50-32-8	Benzo(a)pyrene	9440 [b]		1840	11600	43	1860	12100	70	4	10-164/67
205-99-2	Benzo(b)fluoranthene	10100 [b]		1840	14100	11	1860	15100	65	7	10-154/69
191-24-2	Benzo(g,h,i)perylene	5470 [b]		1840	6160	98	1860	5460	60	12	10-156/64
207-08-9	Benzo(k)fluoranthene	3280 [b]		1840	2800	20	1860	3370	51	18	10-156/62
101-55-3	4-Bromophenyl phenyl ether	ND		1840	807	44	1860	954	51	17	10-145/57
85-68-7	Butyl benzyl phthalate	ND		1840	913	50	1860	142000	7651* [a]	197* [a]	10-151/57
92-52-4	1,1'-Biphenyl	379		1840	1220	46	1860	1410	56	14	10-140/53
100-52-7	Benzaldehyde	ND		1840	890	48	1860	1040	56	16	10-135/56
91-58-7	2-Chloronaphthalene	ND		1840	751	41	1860	906	49	19	10-134/58
106-47-8	4-Chloroaniline	ND		1840	391	21	1860	419	23	7	10-97/62
86-74-8	Carbazole	2150		1840	3160	55	1860	3740	86	17	10-145/53
105-60-2	Caprolactam	ND		1840	1050	57	1860	1330	72	24	10-156/53
218-01-9	Chrysene	10100 [b]		1840	12300	60	1860	14100	156* [c]	14	10-148/70
111-91-1	bis(2-Chloroethoxy)methane	ND		1840	762	41	1860	967	52	24	10-130/57
111-44-4	bis(2-Chloroethyl)ether	ND		1840	772	42	1860	921	50	18	10-125/60

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-MS	2P99002.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
OP31540-MSD	2P99003.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
JD18961-8	2P99004.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
JD18961-8	2P99009.D	10	01/19/21	KLS	01/15/21	OP31540	E2P4413

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Compound	JD18961-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	2,2'-Oxybis(1-chloropropane)	ND		1840	871	47	1860	1100	59	23	10-151/58
7005-72-3	4-Chlorophenyl phenyl ether	ND		1840	819	44	1860	961	52	16	10-141/56
121-14-2	2,4-Dinitrotoluene	ND		1840	945	51	1860	1020	55	8	10-153/57
606-20-2	2,6-Dinitrotoluene	ND		1840	683	37	1860	835	45	20	10-147/59
91-94-1	3,3'-Dichlorobenzidine	ND		3690	794	22	3710	595	16	29	10-133/74
123-91-1	1,4-Dioxane	ND		1840	809	44	1860	798	43	1	10-81/57
53-70-3	Dibenzo(a,h)anthracene	1520		1840	2460	51	1860	2410	48	2	10-146/63
132-64-9	Dibenzofuran	1850		1840	2820	53	1860	3270	77	15	10-148/50
84-74-2	Di-n-butyl phthalate	ND		1840	806	44	1860	7720	416* [a]	162* [a]	10-152/59
117-84-0	Di-n-octyl phthalate	ND		1840	840	46	1860	1020	55	19	10-155/57
84-66-2	Diethyl phthalate	ND		1840	774	42	1860	928	50	18	10-145/56
131-11-3	Dimethyl phthalate	ND		1840	730	40	1860	902	49	21	10-138/56
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1840	931	50	1860	1780	96	63* [a]	6-140/61
206-44-0	Fluoranthene	22800 [b]		1840	24700	81	1860	29400	334* [c]	17	10-171/80
86-73-7	Fluorene	5010 [b]		1840	7570	80	1860	8510	130	12	10-148/65
118-74-1	Hexachlorobenzene	ND		1840	801	43	1860	963	52	18	10-143/57
87-68-3	Hexachlorobutadiene	ND		1840	897	49	1860	1100	59	20	10-141/60
77-47-4	Hexachlorocyclopentadiene	ND		3690	29.6	1* [a]	3710	39.3	1* [a]	28	10-135/81
67-72-1	Hexachloroethane	ND		1840	514	28	1860	554	30	7	10-124/62
193-39-5	Indeno(1,2,3-cd)pyrene	5420 [b]		1840	6570	94	1860	6130	70	7	10-152/65
78-59-1	Isophorone	ND		1840	884	48	1860	1080	58	20	10-138/59
91-57-6	2-Methylnaphthalene	4030 [b]		1840	7000	84	1860	7840	128	11	10-150/51
88-74-4	2-Nitroaniline	ND		1840	1060	57	1860	1260	68	17	10-161/50
99-09-2	3-Nitroaniline	ND		1840	525	28	1860	551	30	5	10-126/54
100-01-6	4-Nitroaniline	ND		1840	613	33	1860	584	31	5	10-143/58
91-20-3	Naphthalene	4920 [b]		1840	7590	50	1860	8980	125	17	10-147/64
98-95-3	Nitrobenzene	ND		1840	945	51	1860	1100	59	15	10-143/58
621-64-7	N-Nitroso-di-n-propylamine	ND		1840	886	48	1860	1090	59	21	10-133/59
86-30-6	N-Nitrosodiphenylamine	ND		1840	1030	56	1860	1290	70	22	10-150/56
85-01-8	Phenanthrene	29300 [b]		1840	30000	195* [c]	1860	33900	404* [c]	12	10-162/81
129-00-0	Pyrene	24900 [b]		1840	28100	54	1860	34000	372* [c]	19	10-166/77
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		1840	734	40	1860	886	48	19	10-130/56

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-MS	2P99002.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
OP31540-MSD	2P99003.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
JD18961-8	2P99004.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
JD18961-8	2P99009.D	10	01/19/21	KLS	01/15/21	OP31540	E2P4413

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Surrogate Recoveries	MS	MSD	JD18961-8	JD18961-8	Limits
367-12-4	2-Fluorophenol	57%	55%	54%	38%	7-101%
4165-62-2	Phenol-d5	58%	55%	53%	39%	12-101%
118-79-6	2,4,6-Tribromophenol	63%	61%	57%	43%	10-127%
4165-60-0	Nitrobenzene-d5	70%	65%	61%	50%	15-114%
321-60-8	2-Fluorobiphenyl	57%	54%	52%	46%	22-104%
1718-51-0	Terphenyl-d14	64%	65%	59%	46%	23-121%

(a) Outside control limits due to matrix interference.
(b) Result is from Run #2.
(c) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample: E2P4365-DFTPP
Lab File ID: 2P97989.D
Instrument ID: GCMS2P
Injection Date: 12/03/20
Injection Time: 16:26

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	172707	49.4		Pass
68	Less than 2.0% of mass 69	693	0.20	(0.34) [a]	Pass
69	Mass 69 relative abundance	202973	58.1		Pass
70	Less than 2.0% of mass 69	833	0.24	(0.41) [a]	Pass
127	40.0 - 60.0% of mass 198	188917	54.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	349431	100.0		Pass
199	5.0 - 9.0% of mass 198	23643	6.77		Pass
275	10.0 - 30.0% of mass 198	100072	28.6		Pass
365	1.0 - 100.0% of mass 198	14706	4.21		Pass
441	Present, but less than mass 443	55120	15.8	(89.7) [b]	Pass
442	40.0 - 100.0% of mass 198	321947	92.1		Pass
443	17.0 - 23.0% of mass 442	61429	17.6	(19.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P4365-IC4365	2P97990.D	12/03/20	16:46	00:20	Initial cal 1
E2P4365-IC4365	2P97991.D	12/03/20	17:14	00:48	Initial cal 2
E2P4365-IC4365	2P97992.D	12/03/20	17:40	01:14	Initial cal 5
E2P4365-IC4365	2P97993.D	12/03/20	18:07	01:41	Initial cal 10
E2P4365-IC4365	2P97994.D	12/03/20	18:35	02:09	Initial cal 25
E2P4365-ICC4365	2P97995.D	12/03/20	19:01	02:35	Initial cal 50
E2P4365-IC4365	2P97996.D	12/03/20	19:27	03:01	Initial cal 80
E2P4365-IC4365	2P97997.D	12/03/20	19:54	03:28	Initial cal 100
E2P4365-ICV4365	2P97998.D	12/03/20	20:20	03:54	Initial cal verification 50
E2P4365-ICV4365	2P97999.D	12/03/20	20:46	04:20	Initial cal verification 50
E2P4365-ICV4365	2P98000.D	12/03/20	21:12	04:46	Initial cal verification 50
E2P4365-ICV4365	2P98001.D	12/03/20	21:38	05:12	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample: E2P4366-DFTPP
Lab File ID: 2P98002.D
Instrument ID: GCMS2P
Injection Date: 12/03/20
Injection Time: 22:01

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	154226	50.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	184741	60.3		Pass
70	Less than 2.0% of mass 69	754	0.25	(0.41) [a]	Pass
127	40.0 - 60.0% of mass 198	162651	53.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	306176	100.0		Pass
199	5.0 - 9.0% of mass 198	20795	6.79		Pass
275	10.0 - 30.0% of mass 198	87875	28.7		Pass
365	1.0 - 100.0% of mass 198	12425	4.06		Pass
441	Present, but less than mass 443	45362	14.8	(89.1) [b]	Pass
442	40.0 - 100.0% of mass 198	256576	83.8		Pass
443	17.0 - 23.0% of mass 442	50887	16.6	(19.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P4366-IC4366	2P98003.D	12/03/20	22:13	00:12	Initial cal 100
E2P4366-IC4366	2P98004.D	12/03/20	22:39	00:38	Initial cal 80
E2P4366-ICC4366	2P98005.D	12/03/20	23:05	01:04	Initial cal 50
E2P4366-IC4366	2P98006.D	12/03/20	23:31	01:30	Initial cal 25
E2P4366-IC4366	2P98007.D	12/03/20	23:57	01:56	Initial cal 10
E2P4366-IC4366	2P98008.D	12/04/20	00:23	02:22	Initial cal 5
E2P4366-IC4366	2P98009.D	12/04/20	00:50	02:49	Initial cal 2
E2P4366-IC4366	2P98010.D	12/04/20	01:16	03:15	Initial cal 1

Instrument Performance Check (DFTPP)

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample: E2P4367-DFTPP
Lab File ID: 2P98012.D
Instrument ID: GCMS2P
Injection Date: 12/04/20
Injection Time: 02:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	144561	50.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	165703	58.3		Pass
70	Less than 2.0% of mass 69	707	0.25	(0.43) [a]	Pass
127	40.0 - 60.0% of mass 198	149694	52.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	284181	100.0		Pass
199	5.0 - 9.0% of mass 198	19068	6.71		Pass
275	10.0 - 30.0% of mass 198	80880	28.5		Pass
365	1.0 - 100.0% of mass 198	12363	4.35		Pass
441	Present, but less than mass 443	40991	14.4	(93.4) [b]	Pass
442	40.0 - 100.0% of mass 198	240517	84.6		Pass
443	17.0 - 23.0% of mass 442	43883	15.4	(18.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P4367-IC4367	2P98013.D	12/04/20	02:16	00:11	Initial cal 100
E2P4367-IC4367	2P98014.D	12/04/20	02:42	00:37	Initial cal 80
E2P4367-ICC4367	2P98015.D	12/04/20	03:08	01:03	Initial cal 50
E2P4367-IC4367	2P98016.D	12/04/20	03:34	01:29	Initial cal 25
E2P4367-IC4367	2P98017.D	12/04/20	04:00	01:55	Initial cal 10
E2P4367-IC4367	2P98018.D	12/04/20	04:26	02:21	Initial cal 5
E2P4367-IC4367	2P98019.D	12/04/20	04:53	02:48	Initial cal 2
E2P4367-IC4367	2P98020.D	12/04/20	05:19	03:14	Initial cal 1
E2P4367-ICV4367	2P98021.D	12/04/20	05:45	03:40	Initial cal verification 50
E2P4367-ICV4367	2P98022.D	12/04/20	06:11	04:06	Initial cal verification 50
E2P4367-ICV4366	2P98023A.D	12/04/20	06:37	04:32	Initial cal verification 50
E2P4367-ICV4367	2P98023.D	12/04/20	06:37	04:32	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample: E2P4412-DFTPP
Lab File ID: 2P98981.D
Instrument ID: GCMS2P
Injection Date: 01/15/21
Injection Time: 12:35

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	310076	52.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	363456	61.2		Pass
70	Less than 2.0% of mass 69	1554	0.26	(0.43) [a]	Pass
127	40.0 - 60.0% of mass 198	315594	53.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	594098	100.0		Pass
199	5.0 - 9.0% of mass 198	38546	6.49		Pass
275	10.0 - 30.0% of mass 198	162015	27.3		Pass
365	1.0 - 100.0% of mass 198	25614	4.31		Pass
441	Present, but less than mass 443	84918	14.3	(88.7) [b]	Pass
442	40.0 - 100.0% of mass 198	497237	83.7		Pass
443	17.0 - 23.0% of mass 442	95691	16.1	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P4412-CC4365	2P98982.D	01/15/21	12:45	00:10	Continuing cal 25
E2P4412-CC4366	2P98983.D	01/15/21	13:11	00:36	Continuing cal 25
E2P4412-CC4367	2P98984.D	01/15/21	13:37	01:02	Continuing cal 25
OP31540-MB1	2P98985.D	01/15/21	14:46	02:11	Method Blank
OP31540-BS1	2P98987.D	01/15/21	15:41	03:06	Blank Spike
OP31540-BSD	2P98988.D	01/15/21	16:33	03:58	Blank Spike Duplicate
ZZZZZZ	2P98989.D	01/15/21	16:59	04:24	(unrelated sample)
ZZZZZZ	2P98990.D	01/15/21	17:24	04:49	(unrelated sample)
ZZZZZZ	2P98991.D	01/15/21	17:50	05:15	(unrelated sample)
ZZZZZZ	2P98992.D	01/15/21	18:16	05:41	(unrelated sample)
ZZZZZZ	2P98993.D	01/15/21	18:42	06:07	(unrelated sample)
ZZZZZZ	2P98994.D	01/15/21	19:08	06:33	(unrelated sample)
ZZZZZZ	2P98995.D	01/15/21	19:34	06:59	(unrelated sample)
JD18939-1	2P98996.D	01/15/21	20:00	07:25	S-10R
ZZZZZZ	2P98997.D	01/15/21	20:26	07:51	(unrelated sample)
ZZZZZZ	2P98998.D	01/15/21	20:52	08:17	(unrelated sample)
ZZZZZZ	2P98999.D	01/15/21	21:18	08:43	(unrelated sample)
JD18939-2	2P99000.D	01/15/21	21:44	09:09	S-15R
JD18939-3	2P99001.D	01/15/21	22:09	09:34	S-18R

Instrument Performance Check (DFTPP)

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample:	E2P4412-DFTPP	**Injection Date:**	01/15/21
Lab File ID:	2P98981.D	**Injection Time:**	12:35
Instrument ID:	GCMS2P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP31540-MS	2P99002.D	01/15/21	22:35	10:00	Matrix Spike
OP31540-MSD	2P99003.D	01/15/21	23:01	10:26	Matrix Spike Duplicate
JD18961-8	2P99004.D	01/15/21	23:27	10:52	(used for QC only; not part of job JD18939)
ZZZZZZ	2P99005.D	01/15/21	23:53	11:18	(unrelated sample)

Internal Standard Area Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Check Std:	E2P4412-CC4365	**Injection Date:**	01/15/21
Lab File ID:	2P98982.D	**Injection Time:**	12:45
Instrument ID:	GCMS2P	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	348467	4.43	1232886	5.42	670748	7.34	1244584	9.46	1293421	13.62	1201043	15.73
Upper Limit [a]	696934	4.93	2465772	5.92	1341496	7.84	2489168	9.96	2586842	14.12	2402086	16.23
Lower Limit [b]	174234	3.93	616443	4.92	335374	6.84	622292	8.96	646711	13.12	600522	15.23

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP31540-MB1	459581	4.43	1663653	5.42	836454	7.34	1586317	9.46	1674443	13.62	1720024	15.74
OP31540-BS1	513675	4.43	1752076	5.42	894882	7.35	1773040	9.47	1979276	13.63	1776299	15.74
OP31540-BSD	563754	4.43	1874466	5.42	957897	7.35	1855434	9.47	2091495	13.63	1828959	15.74
ZZZZZZ	486310	4.43	1722689	5.42	984443	7.34	1656514	9.46	1559254	13.62	1766166	15.74
ZZZZZZ	486947	4.43	1752134	5.42	1015314	7.34	1706524	9.46	1587168	13.62	1760278	15.74
ZZZZZZ	540610	4.43	1885090	5.42	1082181	7.34	1740582	9.46	1636694	13.62	1763064	15.74
ZZZZZZ	490965	4.43	1788516	5.42	1030373	7.34	1674580	9.46	1531179	13.62	1624821	15.74
ZZZZZZ	428144	4.43	1589384	5.42	923773	7.34	1578159	9.46	1520310	13.62	1669089	15.74
ZZZZZZ	529772	4.43	1917768	5.42	1106172	7.34	1807484	9.46	1665083	13.62	1779374	15.74
ZZZZZZ	519794	4.43	1805677	5.42	1010149	7.34	1625057	9.46	1497175	13.62	1545820	15.74
JD18939-1	494066	4.43	1732980	5.42	976985	7.34	1583724	9.46	1425848	13.62	1500111	15.74
ZZZZZZ	527854	4.43	1896700	5.42	1058953	7.34	1741931	9.46	1531576	13.63	1606714	15.74
ZZZZZZ	349668	4.43	1249936	5.42	728008	7.34	1230066	9.46	1164187	13.62	1239912	15.74
ZZZZZZ	261555	4.43	990958	5.42	581371	7.34	1015663	9.46	1004157	13.62	1125715	15.74
JD18939-2	350081	4.43	1281323	5.42	743837	7.34	1205170	9.46	1126776	13.63	1255285	15.75
JD18939-3	491760	4.43	1732455	5.42	994022	7.35	1587733	9.47	1429985	13.64	1579449	15.76
OP31540-MS	428547	4.43	1504048	5.42	865863	7.36	1415615	9.48	1316779	13.71	1405844	15.83
OP31540-MSD	329025	4.43	1173302	5.42	687898	7.37	1138206	9.49	1043937	13.73	1142768	15.84
JD18961-8	492283	4.44	1760190	5.43	983393	7.37	1554214	9.50	1432510	13.74	1474770	15.86
ZZZZZZ	484824	4.44	1744711	5.43	993554	7.38	1566606	9.54	1436150	13.74	1484934	15.87

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Method: SW846 8270E **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD18939-1	2P98996.D	52	50	64	69	58	75
JD18939-2	2P99000.D	45	47	54	58	49	57
JD18939-3	2P99001.D	46	47	58	60	51	63
OP31540-BS1	2P98987.D	65	67	69	82	76	70
OP31540-BSD	2P98988.D	65	66	69	84	78	70
OP31540-MB1	2P98985.D	71	71	79	90	85	84
OP31540-MS	2P99002.D	57	58	63	70	57	64
OP31540-MSD	2P99003.D	55	55	61	65	54	65

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	7-101%
S2 = Phenol-d5	12-101%
S3 = 2,4,6-Tribromophenol	10-127%
S4 = Nitrobenzene-d5	15-114%
S5 = 2-Fluorobiphenyl	22-104%
S6 = Terphenyl-d14	23-121%

Initial Calibration Summary

Job Number: JD18939 **Sample:** E2P4365-ICC4365
Account: LBGNJ WSP USA **Lab FileID:** 2P97995.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Response Factor Report MS2P

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 14:04:08 2020
Response via : Initial Calibration

Calibration Files
2 =2p97991.D 5 =2p97992.D 25 =2p97994.D 80 =2p97996.D
100 =2p97997.D 50 =2p97995.D 1 =2p97990.D 10 =2p97993.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD									
2) 1,4-Dioxane	0.573	0.639	0.653	0.683	0.717	0.669	0.725	0.635	0.662	7.38
3) Pyridine	1.447	1.728	1.717	1.815	1.875	1.781	1.341	1.725	1.678	11.07
4) N-Nitrosodim	0.858	0.917	0.971	1.003	1.054	0.987	0.908	0.902	0.950	6.79
5) 2-Fluorophen	1.229	1.304	1.384	1.456	1.528	1.425	1.242	1.336	1.363	7.71
6) Indene	2.323	2.421	2.400	2.428	2.459	2.447	2.460	2.425	2.420	1.83
7) Cumene	3.441	3.527	3.615	3.674	3.673	3.658	3.618	3.469	3.584	2.59
8) Phenol-d5	1.575	1.676	1.754	1.811	1.864	1.817	1.614	1.700	1.726	5.94
9) Phenol	1.798	1.886	1.993	2.030	2.123	2.047	1.844	1.880	1.950	5.85
10) Aniline	2.033	2.110	2.008	2.052	2.164	2.026	2.000	2.112	2.063	2.85
11) bis(2-Chloro	1.436	1.422	1.536	1.552	1.599	1.564	1.514	1.490	1.514	4.09
12) 2-Chlorophen	1.319	1.385	1.379	1.413	1.468	1.424	1.377	1.394	1.395	3.10
13) Decane	1.853	1.917	1.837	1.790	1.727	1.811	1.886	1.891	1.839	3.38
14) 1,3-Dichloro	1.485	1.505	1.501	1.515	1.521	1.538	1.592	1.491	1.518	2.26
15) 1,4-Dichloro	1.491	1.511	1.508	1.527	1.531	1.523	1.666	1.489	1.531	3.70
16) Benzyl alcoh	0.733	0.768	0.796	0.824	0.853	0.836	0.731	0.809	0.794	5.77
17) 1,2-Dichloro	1.395	1.388	1.426	1.435	1.461	1.436	1.473	1.404	1.427	2.13
18) Acetophenone	1.897	2.003	1.977	1.972	1.988	2.011	1.980	1.996	1.978	1.79
19) 2-Methylphen	1.210	1.252	1.249	1.237	1.261	1.236	1.197	1.230	1.234	1.75
20) 2,2'-oxybis(	0.343	0.345	0.336	0.335	0.340	0.331	0.405	0.343	0.347	6.87
21) 3&4-Methylph	1.221	1.328	1.314	1.327	1.379	1.342	1.319	1.290	1.315	3.49
22) n-Nitroso-di	1.102	1.144	1.116	1.121	1.129	1.139	1.081	1.136	1.121	1.88
23) Hexachloroet	0.529	0.519	0.503	0.509	0.510	0.512	0.568	0.510	0.520	4.01
24) I Naphthalene-d8	ISTD									
25) Nitrobenzene	0.422	0.457	0.455	0.457	0.460	0.462	0.424	0.455	0.449	3.67
26) Nitrobenzene	0.456	0.475	0.462	0.463	0.453	0.468	0.457	0.475	0.464	1.78
27) Quinoline	0.631	0.684	0.694	0.698	0.723	0.703	0.635	0.681	0.681	4.76
28) Isophorone	0.684	0.736	0.752	0.754	0.765	0.754	0.697	0.739	0.735	3.98
29) 2-Nitropheno	0.169	0.183	0.198	0.204	0.212	0.200	0.170	0.190	0.191	8.24
30) 2,4-Dimethyl	0.326	0.351	0.362	0.384	0.393	0.382	0.325	0.359	0.360	7.16
31) Benzoic acid		0.247	0.306	0.315	0.327	0.327		0.271	0.299	10.95
32) bis(2-Chloro	0.450	0.481	0.483	0.487	0.491	0.487	0.466	0.479	0.478	2.85
33) 2,4-Dichloro	0.283	0.300	0.305	0.309	0.320	0.309	0.275	0.299	0.300	4.89
34) 2,6-Dichloro	0.279	0.282	0.286	0.290	0.293	0.291	0.281	0.278	0.285	2.07
35) 1,3,5-Trichl	0.341	0.353	0.352	0.354	0.357	0.350	0.345	0.348	0.350	1.49
36) 1,2,4-Trichl	0.315	0.333	0.327	0.324	0.327	0.331	0.343	0.324	0.328	2.49
37) 1,2,3-Trichl	0.320	0.331	0.327	0.328	0.327	0.329	0.324	0.321	0.326	1.20
38) Naphthalene	0.958	0.994	1.004	1.000	0.993	0.992	1.032	0.985	0.995	2.06
39) 4-Chloroanil	0.394	0.415	0.412	0.414	0.425	0.410	0.413	0.419	0.413	2.13
40) 2,3-Dichloro	0.361	0.369	0.371	0.371	0.380	0.375	0.382	0.362	0.371	2.08
41) Caprolactam	0.089	0.103	0.108	0.111	0.114	0.112	0.089	0.106	0.104	9.50
42) Hexachlorobu	0.195	0.200	0.195	0.191	0.192	0.193	0.193	0.193	0.194	1.46
43) 4-Chloro-3-m	0.310	0.333	0.346	0.354	0.360	0.353	0.313	0.336	0.338	5.51
44) 2-Methylnaph	0.500	0.529	0.534	0.544	0.548	0.538	0.536	0.525	0.532	2.76
45) 1-Methylnaph	0.600	0.607	0.607	0.619	0.621	0.613	0.603	0.604	0.609	1.29

Initial Calibration Summary

Job Number: JD18939 **Sample:** E2P4365-ICC4365
Account: LBGNJ WSP USA **Lab FileID:** 2P97995.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

```
46) Dimethylnaph 0.561 0.594 0.598 0.591 0.598 0.592 0.588 0.589 0.589   2.03

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy       0.326 0.381 0.418 0.419 0.388       0.356 0.381   9.44
49) 2,4,6-Trichl 0.374 0.399 0.419 0.408 0.415 0.414 0.375 0.400 0.401   4.43
50) 2,4,5-Trichl 0.398 0.412 0.435 0.434 0.430 0.431 0.405 0.434 0.422   3.52
51) 2-Fluorobiph 1.291 1.331 1.341 1.309 1.303 1.290 1.356 1.304 1.316   1.84
52) 2-Chloronaph 1.149 1.195 1.225 1.165 1.161 1.170 1.212 1.209 1.186   2.37
53) Biphenyl     1.486 1.581 1.581 1.542 1.537 1.542 1.613 1.578 1.558   2.50
54) 2-Nitroanili 0.434 0.483 0.508 0.501 0.495 0.504 0.418 0.498 0.480   7.17
55) Dimethylphth 1.324 1.408 1.425 1.394 1.396 1.389 1.340 1.392 1.383   2.46
56) Acenaphthyle 1.752 1.886 1.888 1.863 1.862 1.841 1.717 1.870 1.835   3.51
57) 2,6-Dinitrot 0.252 0.274 0.299 0.301 0.305 0.302 0.253 0.291 0.285   7.72
58) 3-Nitroanili 0.284 0.316 0.349 0.349 0.352 0.342 0.253 0.332 0.322  11.23
59) Acenaphthene 1.176 1.218 1.231 1.197 1.211 1.212 1.252 1.217 1.214   1.85
60) 2,4-Dinitrop 0.067 0.108 0.183 0.203 0.212 0.196       0.141 0.159  34.72
          ----- Quadratic regression -----              Coefficient =  0.9993
               Response Ratio = -0.01398 + 0.18024 *A + 0.00702 *A^2

61) 4-Nitropheno       0.177 0.223 0.232 0.232 0.226       0.195 0.214  10.71
62) Dibenzofuran 1.593 1.661 1.646 1.637 1.614 1.607 1.631 1.641 1.629   1.39
63) 2,4-Dinitrot 0.352 0.376 0.415 0.417 0.413 0.412 0.310 0.402 0.387  10.04
64) 2,3,4,6-Tetr 0.288 0.324 0.342 0.346 0.350 0.347 0.286 0.325 0.326   7.96
65) Diethylphtha 1.328 1.435 1.465 1.433 1.436 1.440 1.345 1.434 1.414   3.49
66) Fluorene     1.258 1.314 1.338 1.307 1.317 1.321 1.295 1.321 1.309   1.83
67) 4-Chlorophen 0.615 0.656 0.650 0.642 0.639 0.641 0.658 0.656 0.645   2.17
68) 4-Nitroanili 0.267 0.301 0.336 0.330 0.333 0.329 0.209 0.321 0.303  14.62

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro-       0.113 0.143 0.151 0.157 0.149       0.130 0.140  11.45
71) n-Nitrosodip 0.500 0.528 0.528 0.517 0.531 0.522 0.494 0.521 0.517   2.59
72) 1,2-Diphenyl 0.860 0.930 0.928 0.895 0.988 0.911 0.876 0.925 0.914   4.31
73) 2,4,6-Tribro 0.127 0.145 0.155 0.155 0.164 0.153 0.114 0.145 0.145  11.42
74) 4-Bromopheny 0.225 0.240 0.240 0.240 0.249 0.240 0.238 0.237 0.239   2.86
75) Hexachlorobe 0.261 0.281 0.279 0.277 0.289 0.277 0.280 0.275 0.277   2.83
76) Pentachlorop 0.086 0.115 0.157 0.172 0.184 0.164       0.132 0.144  24.35
          ----- Quadratic regression -----              Coefficient =  0.9996
               Response Ratio = -0.00718 + 0.14837 *A + 0.00714 *A^2

77) Phenanthrene 1.029 1.078 1.066 1.040 1.061 1.046 1.141 1.047 1.063   3.29
78) Anthracene   1.014 1.089 1.078 1.059 1.084 1.070 1.057 1.070 1.065   2.19
79) Carbazole    0.960 1.007 1.011 1.008 1.032 1.005 0.981 1.004 1.001   2.16
80) Di-n-butylph 1.198 1.352 1.400 1.387 1.420 1.393 1.166 1.357 1.334   7.26
81) Fluoranthene 1.078 1.152 1.199 1.199 1.245 1.194 1.111 1.160 1.167   4.59
82) Octadecane   0.422 0.439 0.431 0.411 0.410 0.417 0.412 0.425 0.421   2.45

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.136 1.229 1.198 1.188 1.206 1.187 1.143 1.206 1.187   2.67
85) Terphenyl-d1 0.895 0.940 0.949 0.941 0.966 0.935 0.897 0.928 0.931   2.64
86) Butylbenzylp 0.531 0.574 0.616 0.623 0.636 0.623 0.466 0.596 0.583   9.98
87) Benzo[a]anth 1.118 1.158 1.179 1.154 1.190 1.160 1.194 1.149 1.163   2.13
88) 3,3'-Dichlor 0.366 0.421 0.444 0.461 0.474 0.448 0.353 0.425 0.424  10.30
89) Chrysene     1.078 1.130 1.111 1.087 1.095 1.093 1.201 1.114 1.113   3.52
90) bis(2-Ethylh 0.662 0.787 0.843 0.831 0.837 0.830 0.610 0.804 0.775  11.48

91) I   Perylene-d12          ----------------ISTD---------------------
92) Di-n-octylph 1.073 1.278 1.481 1.490 1.524 1.547       1.399 1.399  12.15
93) Benzo[b]fluo 1.066 1.126 1.251 1.246 1.341 1.277 1.080 1.171 1.195   8.32
94) Benzo[k]fluo 1.057 1.137 1.120 1.094 1.052 1.156 1.075 1.129 1.103   3.50
95) Benzo[a]pyre 0.943 1.015 1.068 1.064 1.108 1.092 0.963 1.048 1.038   5.73
```

Initial Calibration Summary

Job Number: JD18939 **Sample:** E2P4365-ICC4365
Account: LBGNJ WSP USA **Lab FileID:** 2P97995.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

```
 96) Indeno[1,2,3 0.940 1.058 1.168 1.194 1.300 1.209 0.964 1.069 1.113  11.32
 97) Dibenz(a,h)a 0.903 0.986 1.084 1.084 1.140 1.102 0.937 1.022 1.032   8.16
 98) Dibenz[a,h]a 1.051 1.136 1.204 1.179 1.224 1.200 1.104 1.153 1.156   5.02
 99) 7,12-Dimethy 0.265 0.300 0.386 0.549 0.580 0.488       0.367 0.419  29.07
          ----- Quadratic regression -----                Coefficient =  0.9994
               Response Ratio = -0.00674 + 0.36647 *A + 0.08911 *A^2

100) Benzo[g,h,i] 0.993 1.072 1.147 1.120 1.162 1.143 1.027 1.104 1.096   5.54


 ----------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M2P4365.M         Fri Dec 04 14:56:53 2020   RPT1
```

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4365-ICV4365
Account: LBGNJ WSP USA **Lab FileID:** 2P97998.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4365\2p97998.D Vial: 10
Acq On : 3 Dec 2020 8:20 pm Operator: hennys
Sample : icv4365-50 Inst : MS2P
Misc : op30791,e2p4365,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 14:04:08 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	83	0.00	4.52
3	t	Pyridine	1.678	1.606	4.3	75	0.01	2.37
10		Aniline	2.063	2.295	-11.2	95	0.00	4.30
16	t	Benzyl alcohol	0.794	0.937	-18.0	94	0.00	4.64
24	I	Naphthalene-d8	1.000	1.000	0.0	88	0.00	5.53
39	t	4-Chloroaniline	0.413	0.411	0.5	88	0.00	5.61
44	t	2-Methylnaphthalene	0.532	0.576	-8.3	94	0.00	6.24
47	I	Acenaphthene-d10	1.000	1.000	0.0	87	0.00	7.49
54	t	2-Nitroaniline	0.480	0.487	-1.5	84	0.00	6.94
58	t	3-Nitroaniline	0.322	0.336	-4.3	85	0.00	7.48
62	t	Dibenzofuran	1.629	1.682	-3.3	91	0.00	7.77
68	t	4-Nitroaniline	0.303	0.354	-16.8	93	-0.01	8.33
69	I	Phenanthrene-d10	1.000	1.000	0.0	87	0.00	9.61
79	t	Carbazole	1.001	1.055	-5.4	91	0.00	10.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p97995.D M2P4365.M Fri Dec 04 14:57:13 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4365-ICV4365
Account: LBGNJ WSP USA **Lab FileID:** 2P97999.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4365\2p97999.D Vial: 11
Acq On : 3 Dec 2020 8:46 pm Operator: hennys
Sample : icv4365-50 Inst : MS2P
Misc : op30791,e2p4365,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 14:04:08 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00	4.52
2	t	1,4-Dioxane	0.662	0.632	4.5	88	0.03	2.03
4	t	N-Nitrosodimethylamine	0.950	0.971	-2.2	92	0.02	2.36
6	t	Indene	2.420	2.292	5.3	88	0.00	4.71
7	t	Cumene	3.584	3.460	3.5	89	0.00	3.94
9	t	Phenol	1.950	1.931	1.0	88	0.00	4.36
11	t	bis(2-Chloroethyl)ether	1.514	1.370	9.5	82	0.00	4.34
12	t	2-Chlorophenol	1.395	1.362	2.4	90	0.00	4.40
13	t	Decane	1.839	1.707	7.2	88	0.00	4.42
14	t	1,3-Dichlorobenzene	1.518	1.468	3.3	89	0.00	4.48
15	t	1,4-Dichlorobenzene	1.531	1.461	4.6	90	0.00	4.54
17	t	1,2-Dichlorobenzene	1.427	1.400	1.9	91	0.00	4.64
18	t	Acetophenone	1.978	1.892	4.3	88	0.00	4.82
19	t	2-Methylphenol	1.234	1.194	3.2	90	0.00	4.77
20	t	2,2'-oxybis(1-Chloropropa	0.347	0.354	-2.0	100	0.00	4.72
21	t	3&4-Methylphenol	1.315	1.243	5.5	87	0.00	4.88
22	t	n-Nitroso-di-n-propylamin	1.121	1.071	4.5	88	0.00	4.82
23	t	Hexachloroethane	0.520	0.491	5.6	90	0.00	4.89
24	I	Naphthalene-d8	1.000	1.000	0.0	93	0.00	5.53
26	t	Nitrobenzene	0.464	0.454	2.2	90	0.00	4.95
27	t	Quinoline	0.681	0.654	4.0	86	-0.02	5.87
28	t	Isophorone	0.735	0.709	3.5	87	0.00	5.13
29	t	2-Nitrophenol	0.191	0.186	2.6	86	0.00	5.20
30	t	2,4-Dimethylphenol	0.360	0.356	1.1	86	0.00	5.28
31	t	Benzoic acid	0.299	0.318	-6.4	90	0.00	5.43
32	t	bis(2-Chloroethoxy)methan	0.478	0.437	8.6	83	0.00	5.32
33	t	2,4-Dichlorophenol	0.300	0.295	1.7	89	0.00	5.45
34	t	2,6-Dichlorophenol	0.285	0.286	-0.4	91	0.00	5.63
36	t	1,2,4-Trichlorobenzene	0.328	0.319	2.7	89	0.00	5.48
38	t	Naphthalene	0.995	0.979	1.6	91	0.00	5.55
40	t	2,3-Dichloroaniline	0.371	0.328	11.6	81	0.00	6.56
41	t	Caprolactam	0.104	0.104	0.0	86	0.00	5.97
42	t	Hexachlorobutadiene	0.194	0.199	-2.6	95	0.00	5.67
43	t	4-Chloro-3-methylphenol	0.338	0.327	3.3	86	0.00	6.16
45	t	1-Methylnaphthalene	0.609	0.550	9.7	83	0.00	6.34
46	t	Dimethylnaphthalene	0.589	0.569	3.4	89	0.00	6.96
47	I	Acenaphthene-d10	1.000	1.000	0.0	94	0.00	7.49
48	t	Hexachlorocyclopentadiene	0.381	0.379	0.5	92	0.00	6.42
49	t	2,4,6-Trichlorophenol	0.401	0.382	4.7	87	0.00	6.59
50	t	2,4,5-Trichlorophenol	0.422	0.410	2.8	89	0.00	6.66

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4365-ICV4365
Account: LBGNJ WSP USA **Lab FileID:** 2P97999.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

52	t	2-Chloronaphthalene	1.186	1.106	6.7	89	0.00	6.79
53	t	Biphenyl	1.558	1.473	5.5	90	0.00	6.78
55	t	Dimethylphthalate	1.383	1.256	9.2	85	0.00	7.18
56	t	Acenaphthylene	1.835	1.682	8.3	86	0.00	7.30
57	t	2,6-Dinitrotoluene	0.285	0.278	2.5	86	0.00	7.25
59	t	Acenaphthene	1.214	1.131	6.8	88	0.00	7.53
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	92.580	7.4	84	0.00	7.62
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.214	0.203	5.1	84	0.00	7.88
63	t	2,4-Dinitrotoluene	0.387	0.375	3.1	86	0.00	7.79
64		2,3,4,6-Tetrachlorophenol	0.326	0.335	-2.8	91	0.00	7.99
65	t	Diethylphthalate	1.414	1.315	7.0	86	0.00	8.16
66	t	Fluorene	1.309	1.257	4.0	89	0.00	8.25
67	t	4-Chlorophenyl-phenylethe	0.645	0.583	9.6	86	0.00	8.27
69	I	Phenanthrene-d10	1.000	1.000	0.0	94	0.00	9.62
70	t	4,6-Dinitro-2-methylpheno	0.140	0.120	14.3	76	0.00	8.37
71	t	n-Nitrosodiphenylamine	0.517	0.447	13.5	81	0.00	8.46
72	t	1,2-Diphenylhydrazine	0.914	0.881	3.6	91	0.00	8.50
74	t	4-Bromophenyl-phenylether	0.239	0.220	7.9	86	0.00	8.98
75	t	Hexachlorobenzene	0.277	0.264	4.7	90	0.00	9.06
		----------	True	Calc.	% Drift	----------		
76	t	Pentachlorophenol	100.000	86.042	14.0	74	0.00	9.40
		----------	AvgRF	CCRF	% Dev	----------		
77	t	Phenanthrene	1.063	1.008	5.2	91	0.00	9.65
78	t	Anthracene	1.065	0.991	6.9	87	0.00	9.73
80	t	Di-n-butylphthalate	1.334	1.266	5.1	86	0.00	10.65
81	t	Fluoranthene	1.167	1.151	1.4	91	0.00	11.49
82	t	Octadecane	0.421	0.389	7.6	88	0.00	9.61
83	I	Chrysene-d12	1.000	1.000	0.0	92	0.00	13.77
84	t	Pyrene	1.187	1.130	4.8	88	0.00	11.84
86	t	Butylbenzylphthalate	0.583	0.571	2.1	84	0.00	13.01
87	t	Benzo[a]anthracene	1.163	1.128	3.0	90	0.00	13.76
89	t	Chrysene	1.113	1.048	5.8	88	0.00	13.81
90	t	bis(2-Ethylhexyl)phthalat	0.775	0.765	1.3	85	0.00	13.99
91	I	Perylene-d12	1.000	1.000	0.0	93	0.00	15.88
92	t	Di-n-octylphthalate	1.399	1.386	0.9	84	0.00	14.97
93	t	Benzo[b]fluoranthene	1.195	1.203	-0.7	88	0.00	15.36
94	t	Benzo[k]fluoranthene	1.103	1.050	4.8	85	0.00	15.40
95	t	Benzo[a]pyrene	1.038	1.019	1.8	87	0.00	15.79
96	t	Indeno[1,2,3-cd]pyrene	1.113	1.127	-1.3	87	0.00	17.24
98	t	Dibenz[a,h]anthracene	1.156	1.099	4.9	85	0.00	17.28
		----------	True	Calc.	% Drift	----------		
99	t	7,12-Dimethylbenz(a)anthr	50.000	44.618	10.8	79	0.00	15.37
		----------	AvgRF	CCRF	% Dev	----------		
100	t	Benzo[g,h,i]perylene	1.096	1.082	1.3	88	0.00	17.61

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Initial Calibration Verification

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample: E2P4365-ICV4365
Lab FileID: 2P97999.D

2p97995.D M2P4365.M Fri Dec 04 14:57:15 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4365-ICV4365
Account: LBGNJ WSP USA **Lab FileID:** 2P98000.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4365\2p98000.D Vial: 12
Acq On : 3 Dec 2020 9:12 pm Operator: hennys
Sample : icv4365-50 Inst : MS2P
Misc : op30791,e2p4365,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 14:04:08 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	82	0.00	4.52
5	S	2-Fluorophenol	1.363	1.378	-1.1	79	0.00	3.64
8	S	Phenol-d5	1.726	1.737	-0.6	79	0.00	4.35
24	I	Naphthalene-d8	1.000	1.000	0.0	85	0.00	5.53
25	S	Nitrobenzene-d5	0.449	0.468	-4.2	86	0.00	4.93
47	I	Acenaphthene-d10	1.000	1.000	0.0	82	0.00	7.49
51	S	2-Fluorobiphenyl	1.316	1.337	-1.6	85	0.00	6.65
69	I	Phenanthrene-d10	1.000	1.000	0.0	83	0.00	9.61
73	S	2,4,6-Tribromophenol	0.145	0.149	-2.8	82	-0.01	8.60
83	I	Chrysene-d12	1.000	1.000	0.0	81	-0.01	13.76
85	S	Terphenyl-d14	0.931	0.967	-3.9	84	0.00	12.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p97995.D M2P4365.M Fri Dec 04 14:57:17 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4365-ICV4365
Account: LBGNJ WSP USA **Lab FileID:** 2P98001.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4365\2p98001.D Vial: 13
Acq On : 3 Dec 2020 9:38 pm Operator: hennys
Sample : icv4365-50 Inst : MS2P
Misc : op30791,e2p4365,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 14:04:08 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83 I	Chrysene-d12	1.000	1.000	0.0	114	-0.01	13.76
88 t	3,3'-Dichlorobenzidine	0.424	0.446	-5.2	114	0.00	13.78

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p97995.D M2P4365.M Fri Dec 04 14:57:19 2020 RPT1

Initial Calibration Summary

Job Number: JD18939 **Sample:** E2P4366-ICC4366
Account: LBGNJ WSP USA **Lab FileID:** 2P98005.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Response Factor Report MS2P

Method : C:\MSDCHEM\1\METHODS\M2P4366.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 15:27:17 2020
Response via : Initial Calibration

Calibration Files
2 =2p98009.D 5 =2p98008.D 25 =2p98006.D 80 =2p98004.D
100 =2p98003.D 50 =2p98005.D 1 =2p98010.D 10 =2p98007.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
101) I 1,4-Dichlorobenzene-d	ISTD									
102) Benzaldehyde	1.095	1.132	1.183	1.218	1.246	1.200	1.055	1.132	1.158	5.63
109) I Phenanthrene-d10a	ISTD									
110) Pentachloron	0.038	0.045	0.048	0.049	0.047		0.043	0.045#		9.24
111) Atrazine	0.079	0.094	0.100	0.107	0.109	0.104	0.079	0.095	0.096	12.17

(#) = Out of Range ### Number of calibration levels exceeded format ###

M2P4365.M Fri Dec 04 15:29:03 2020 RPT1

Initial Calibration Summary

Job Number: JD18939 **Sample:** E2P4367-ICC4367
Account: LBGNJ WSP USA **Lab FileID:** 2P98015.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Response Factor Report MS2P

Method : C:\MSDCHEM\1\METHODS\M2P4367.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 16:05:32 2020
Response via : Initial Calibration

Calibration Files
2 =2p98019.D 5 =2p98018.D 25 =2p98016.D 80 =2p98014.D
100 =2p98013.D 50 =2p98015.D 1 =2p98020.D 10 =2p98017.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
103) I Naphthalene-d8a	----------ISTD----------									
104) Hydroquinone	0.220	0.310	0.338	0.350	0.345		0.210	0.295		21.72
----- Quadratic regression ----- Coefficient = 0.9980										
Response Ratio = -0.01983 + 0.33622 *A + 0.00867 *A^2										
105) I Acenaphthene-d10a	----------ISTD----------									
106) 1,2,4,5-Tetr	0.569	0.572	0.593	0.606	0.631	0.613	0.599	0.597	0.598	3.42
107) I Chrysene-d12a	----------ISTD----------									
108) Benzidine	0.558	0.728	0.742	0.735	0.755		0.672	0.698		10.65
117) I Phenanthrene-d10b	----------ISTD----------									
118) 1-Chloroocta	0.383	0.398	0.427	0.412	0.421	0.430	0.358	0.417	0.406	6.08
119) o-terphenyl	0.526	0.526	0.562	0.564	0.585	0.570	0.530	0.545	0.551	4.11

(#) = Out of Range ### Number of calibration levels exceeded format ###

M2P4365.M Fri Dec 04 16:06:23 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4367-ICV4367
Account: LBGNJ WSP USA **Lab FileID:** 2P98021.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4366\2p98021.D Vial: 31
Acq On : 4 Dec 2020 5:45 am Operator: hennys
Sample : icv4367-50 Inst : MS2P
Misc : op30791,e2p4367,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 16:05:32 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
107 I	Chrysene-d12a	1.000	1.000	0.0	125	0.00	13.76
108	Benzidine	0.698	0.739	-5.9	122	0.00	11.78

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98015a.D M2P4365.M Fri Dec 04 16:07:33 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4367-ICV4367
Account: LBGNJ WSP USA **Lab FileID:** 2P98022.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4366\2p98022.D Vial: 32
Acq On : 4 Dec 2020 6:11 am Operator: hennys
Sample : icv4367-50 Inst : MS2P
Misc : op30791,e2p4367,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 16:05:32 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103 I	Naphthalene-d8a	1.000	1.000	0.0	81	0.00	5.53
	----------	True	Calc.	% Drift	----------		
104	Hydroquinone	50.000	47.376	5.2	73	0.00	6.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98015a.D M2P4365.M Fri Dec 04 16:07:35 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4367-ICV4367
Account: LBGNJ WSP USA **Lab FileID:** 2P98023.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4366\2p98023.D Vial: 22
Acq On : 4 Dec 2020 6:37 am Operator: hennys
Sample : icv4367-50 Inst : MS2P
Misc : op30791,e2p4367,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 16:05:32 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
105 I	Acenaphthene-d10a	1.000	1.000	0.0	76	0.00	7.48
106	1,2,4,5-Tetrachlorobenzen	0.598	0.637	-6.5	79	0.00	6.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98015a.D M2P4365.M Fri Dec 04 16:07:37 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4367-ICV4366
Account: LBGNJ WSP USA **Lab FileID:** 2P98023A.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4366\2p98023a.D Vial: 22
Acq On : 4 Dec 2020 6:37 am Operator: hennys
Sample : icv4366-50 Inst : MS2P
Misc : op30791,e2p4367,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 16:05:32 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
101 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	52	0.00	4.52
102	Benzaldehyde	1.158	1.246	-7.6	54	0.00	4.20
109 I	Phenanthrene-d10a	1.000	1.000	0.0	53	0.00	9.61
110	Pentachloronitrobenzene	0.045	0.053	-17.8	60	0.00	9.38
111	Atrazine	0.096	0.108	-12.5	55	-0.01	9.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98015a.D M2P4365.M Fri Dec 04 16:19:03 2020 RPT1

Continuing Calibration Summary

Job Number: JD18939 **Sample:** E2P4412-CC4365
Account: LBGNJ WSP USA **Lab FileID:** 2P98982.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jeryllr\e2p4412\2p98982.d Vial: 2
Acq On : 15 Jan 2021 12:45 pm Operator: hennys
Sample : cc4365-25 Inst : MS2P
Misc : op30791,e2p4412,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Dec 31 03:26:22 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	51	0.00	4.43
2	t	1,4-Dioxane	0.662	0.926	-39.9#	72	-0.03	1.87
3	t	Pyridine	1.678	2.063	-22.9#	61	-0.02	2.23
4	t	N-Nitrosodimethylamine	0.950	1.204	-26.7#	63	-0.02	2.23
5	S	2-Fluorophenol	1.363	1.263	7.3	46#	0.00	3.50
6	t	Indene	2.420	2.360	2.5	50#	0.00	4.61
7	t	Cumene	3.584	3.563	0.6	50	0.00	3.84
8	S	Phenol-d5	1.726	1.602	7.2	46#	0.00	4.22
9	t	Phenol	1.950	1.869	4.2	48#	0.00	4.23
10		Aniline	2.063	1.857	10.0	47#	0.00	4.20
11	t	bis(2-Chloroethyl)ether	1.514	1.416	6.5	47#	0.00	4.25
12	t	2-Chlorophenol	1.395	1.311	6.0	48#	0.00	4.30
13	t	Decane	1.839	2.198	-19.5	61	0.00	4.32
14	t	1,3-Dichlorobenzene	1.518	1.449	4.5	49#	0.00	4.39
15	t	1,4-Dichlorobenzene	1.531	1.467	4.2	49#	0.00	4.44
16	t	Benzyl alcohol	0.794	0.684	13.9	44#	0.00	4.55
17	t	1,2-Dichlorobenzene	1.427	1.384	3.0	49#	0.00	4.55
18	t	Acetophenone	1.978	2.084	-5.4	53	0.00	4.73
19	t	2-Methylphenol	1.234	1.190	3.6	48#	0.00	4.65
20	t	2,2'-oxybis(1-Chloropropa	0.347	0.329	5.2	50#	0.00	4.63
21	t	3&4-Methylphenol	1.315	1.211	7.9	47#	0.00	4.76
22	t	n-Nitroso-di-n-propylamin	1.121	1.223	-9.1	56	0.00	4.73
23	t	Hexachloroethane	0.520	0.555	-6.7	56	0.00	4.79
24	I	Naphthalene-d8	1.000	1.000	0.0	52	0.00	5.42
25	S	Nitrobenzene-d5	0.449	0.510	-13.6	58	0.00	4.84
26	t	Nitrobenzene	0.464	0.531	-14.4	59	0.00	4.85
27	t	Quinoline	0.681	0.654	4.0	49#	0.00	5.76
28	t	Isophorone	0.735	0.807	-9.8	55	0.00	5.04
29	t	2-Nitrophenol	0.191	0.195	-2.1	51	0.00	5.10
30	t	2,4-Dimethylphenol	0.360	0.372	-3.3	53	0.00	5.16
31	t	Benzoic acid	0.299	0.293	2.0	49#	-0.01	5.30
32	t	bis(2-Chloroethoxy)methan	0.478	0.462	3.3	49#	0.00	5.22
33	t	2,4-Dichlorophenol	0.300	0.291	3.0	49#	0.00	5.33
34	t	2,6-Dichlorophenol	0.285	0.286	-0.4	52	0.00	5.51
35		1,3,5-Trichlorobenzene	0.350	0.359	-2.6	53	0.00	5.11
36	t	1,2,4-Trichlorobenzene	0.328	0.327	0.3	52	0.00	5.38
37		1,2,3-Trichlorobenzene	0.326	0.334	-2.5	53	0.00	5.57
38	t	Naphthalene	0.995	0.950	4.5	49#	0.00	5.43
39	t	4-Chloroaniline	0.413	0.390	5.6	49#	0.00	5.50
40	t	2,3-Dichloroaniline	0.371	0.365	1.6	51	0.00	6.43
41	t	Caprolactam	0.104	0.106	-1.9	51	-0.01	5.84

Continuing Calibration Summary

Job Number: JD18939 **Sample:** E2P4412-CC4365
Account: LBGNJ WSP USA **Lab FileID:** 2P98982.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

42	t	Hexachlorobutadiene	0.194	0.214	-10.3	57	0.00	5.55
43	t	4-Chloro-3-methylphenol	0.338	0.347	-2.7	52	-0.01	6.01
44	t	2-Methylnaphthalene	0.532	0.514	3.4	50#	0.00	6.11
45	t	1-Methylnaphthalene	0.609	0.608	0.2	52	0.00	6.22
46	t	Dimethylnaphthalene	0.589	0.596	-1.2	51	-0.01	6.83
47	I	Acenaphthene-d10	1.000	1.000	0.0	54	0.00	7.34
48	t	Hexachlorocyclopentadiene	0.381	0.174	54.3#	25#	0.00	6.28
49	t	2,4,6-Trichlorophenol	0.401	0.396	1.2	51	0.00	6.45
50	t	2,4,5-Trichlorophenol	0.422	0.421	0.2	52	0.00	6.51
51	S	2-Fluorobiphenyl	1.316	1.312	0.3	53	0.00	6.53
52	t	2-Chloronaphthalene	1.186	1.167	1.6	51	0.00	6.65
53	t	Biphenyl	1.558	1.526	2.1	52	0.00	6.64
54	t	2-Nitroaniline	0.480	0.609	-26.9#	65	0.00	6.80
55	t	Dimethylphthalate	1.383	1.432	-3.5	54	0.00	7.04
56	t	Acenaphthylene	1.835	1.771	3.5	51	0.00	7.16
57	t	2,6-Dinitrotoluene	0.285	0.290	-1.8	52	0.00	7.12
58	t	3-Nitroaniline	0.322	0.320	0.6	50#	0.00	7.34
59	t	Acenaphthene	1.214	1.200	1.2	53	0.00	7.39
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	44.357	11.3	46	0.02	7.50
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.214	0.240	-12.1	58	0.00	7.68
62	t	Dibenzofuran	1.629	1.599	1.8	52	0.00	7.62
63	t	2,4-Dinitrotoluene	0.387	0.421	-8.8	55	0.01	7.67
64		2,3,4,6-Tetrachlorophenol	0.326	0.306	6.1	48#	0.00	7.83
65	t	Diethylphthalate	1.414	1.520	-7.5	56	0.00	8.01
66	t	Fluorene	1.309	1.297	0.9	52	0.00	8.09
67	t	4-Chlorophenyl-phenylethe	0.645	0.639	0.9	53	0.00	8.12
68	t	4-Nitroaniline	0.303	0.267	11.9	43#	0.00	8.18
69	I	Phenanthrene-d10	1.000	1.000	0.0	55	0.00	9.46
70	t	4,6-Dinitro-2-methylpheno	0.140	0.128	8.6	49#	0.00	8.25
71	t	n-Nitrosodiphenylamine	0.517	0.494	4.4	51	-0.01	8.30
72	t	1,2-Diphenylhydrazine	0.914	1.039	-13.7	61	0.00	8.34
73	S	2,4,6-Tribromophenol	0.145	0.138	4.8	49#	0.00	8.45
74	t	4-Bromophenyl-phenylether	0.239	0.230	3.8	53	-0.01	8.82
75	t	Hexachlorobenzene	0.277	0.268	3.2	53	0.00	8.91
		----------	True	Calc.	% Drift	----------		
76	t	Pentachlorophenol	50.000	42.294	15.4	44	0.00	9.24
		----------	AvgRF	CCRF	% Dev	----------		
77	t	Phenanthrene	1.063	1.025	3.6	53	0.00	9.49
78	t	Anthracene	1.065	1.030	3.3	52	0.00	9.57
79	t	Carbazole	1.001	0.931	7.0	51	0.00	9.86
80	t	Di-n-butylphthalate	1.334	1.421	-6.5	56	0.00	10.50
81	t	Fluoranthene	1.167	1.170	-0.3	54	0.00	11.34
82	t	Octadecane	0.421	0.670	-59.1#	85	0.00	9.46
83	I	Chrysene-d12	1.000	1.000	0.0	55	0.00	13.62
84	t	Pyrene	1.187	1.172	1.3	54	0.00	11.68
85	S	Terphenyl-d14	0.931	0.936	-0.5	54	0.00	12.01
86	t	Butylbenzylphthalate	0.583	0.640	-9.8	57	0.00	12.85
87	t	Benzo[a]anthracene	1.163	1.176	-1.1	55	0.00	13.60
88	t	3,3'-Dichlorobenzidine	0.424	0.429	-1.2	53	0.00	13.62
89	t	Chrysene	1.113	1.083	2.7	54	0.00	13.66
90	t	bis(2-Ethylhexyl)phthalat	0.775	0.895	-15.5	58	0.00	13.83

Continuing Calibration Summary

Job Number: JD18939 **Sample:** E2P4412-CC4365
Account: LBGNJ WSP USA **Lab FileID:** 2P98982.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

91	I	Perylene-d12	1.000	1.000	0.0	50	0.00	15.73
92	t	Di-n-octylphthalate	1.399	1.702	-21.7#	58	0.00	14.81
93	t	Benzo[b]fluoranthene	1.195	1.319	-10.4	53	0.00	15.22
94	t	Benzo[k]fluoranthene	1.103	1.218	-10.4	55	0.00	15.25
95	t	Benzo[a]pyrene	1.038	1.154	-11.2	54	0.00	15.65
96	t	Indeno[1,2,3-cd]pyrene	1.113	1.224	-10.0	53	0.00	17.09
97	t	Dibenz(a,h)acridine	1.032	1.126	-9.1	52	0.00	16.81
98	t	Dibenz[a,h]anthracene	1.156	1.265	-9.4	53	0.00	17.12
			True	Calc.	% Drift			
99	t	7,12-Dimethylbenz(a)anthr	25.000	15.653	37.4#	31	-0.01	15.20
			AvgRF	CCRF	% Dev			
100	t	Benzo[g,h,i]perylene	1.096	1.188	-8.4	52	0.01	17.44

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98615.d M2P4365.M Mon Jan 18 03:02:00 2021

Continuing Calibration Summary

Job Number: JD18939 **Sample:** E2P4412-CC4366
Account: LBGNJ WSP USA **Lab FileID:** 2P98983.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jeryllr\e2p4412\2p98983.d Vial: 3
Acq On : 15 Jan 2021 1:11 pm Operator: hennys
Sample : cc4366-25 Inst : MS2P
Misc : op30791,e2p4412,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Dec 31 03:26:22 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
101 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	57	0.00	4.43
102	Benzaldehyde	1.158	1.039	10.3	50#	0.00	4.12
109 I	Phenanthrene-d10a	1.000	1.000	0.0	59	0.00	9.46
110	Pentachloronitrobenzene	0.045	0.049#	-8.9	66	0.00	9.24
111	Atrazine	0.096	0.095	1.0	57	0.00	9.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98615.d M2P4365.M Mon Jan 18 03:02:05 2021

Continuing Calibration Summary

Job Number: JD18939 **Sample:** E2P4412-CC4367
Account: LBGNJ WSP USA **Lab FileID:** 2P98984.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jeryllr\e2p4412\2p98984.d Vial: 4
Acq On : 15 Jan 2021 1:37 pm Operator: hennys
Sample : cc4367-25 Inst : MS2P
Misc : op30791,e2p4412,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Dec 31 03:26:22 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103 I	Naphthalene-d8a	1.000	1.000	0.0	80	0.00	5.42
		True	Calc.	% Drift			
104	Hydroquinone	25.000	22.458	10.2	71	0.00	5.87
		AvgRF	CCRF	% Dev			
105 I	Acenaphthene-d10a	1.000	1.000	0.0	82	0.00	7.34
106	1,2,4,5-Tetrachlorobenzen	0.598	0.594	0.7	82	0.00	6.30
107 I	Chrysene-d12a	1.000	1.000	0.0	85	0.00	13.62
108	Benzidine	0.698	0.575	17.6	67	0.00	11.62
117 I	Phenanthrene-d10b	1.000	1.000	0.0	83	0.00	9.46
118 s	1-Chlorooctadecane	0.406	0.488	-20.2#	95	-0.06	11.33
119 s	o-terphenyl	0.551	0.556	-0.9	82	-0.06	10.10

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98615.d M2P4365.M Mon Jan 18 03:02:08 2021

Run Sequence Report

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Run ID: E2P4365	**Method:** SW846 8270E	**Instrument ID:** GCMS2P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E2P4365-DFTPP	2P97989.D	12/03/20 16:26	n/a	DFTPP Tune
E2P4365-IC4365	2P97990.D	12/03/20 16:46	n/a	Initial cal 1
E2P4365-IC4365	2P97991.D	12/03/20 17:14	n/a	Initial cal 2
E2P4365-IC4365	2P97992.D	12/03/20 17:40	n/a	Initial cal 5
E2P4365-IC4365	2P97993.D	12/03/20 18:07	n/a	Initial cal 10
E2P4365-IC4365	2P97994.D	12/03/20 18:35	n/a	Initial cal 25
E2P4365-ICC4365	2P97995.D	12/03/20 19:01	n/a	Initial cal 50
E2P4365-IC4365	2P97996.D	12/03/20 19:27	n/a	Initial cal 80
E2P4365-IC4365	2P97997.D	12/03/20 19:54	n/a	Initial cal 100
E2P4365-ICV4365	2P97998.D	12/03/20 20:20	n/a	Initial cal verification 50
E2P4365-ICV4365	2P97999.D	12/03/20 20:46	n/a	Initial cal verification 50
E2P4365-ICV4365	2P98000.D	12/03/20 21:12	n/a	Initial cal verification 50
E2P4365-ICV4365	2P98001.D	12/03/20 21:38	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Run ID: E2P4366	**Method:** SW846 8270E	**Instrument ID:** GCMS2P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E2P4366-DFTPP	2P98002.D	12/03/20 22:01	n/a	DFTPP Tune
E2P4366-IC4366	2P98003.D	12/03/20 22:13	n/a	Initial cal 100
E2P4366-IC4366	2P98004.D	12/03/20 22:39	n/a	Initial cal 80
E2P4366-ICC4366	2P98005.D	12/03/20 23:05	n/a	Initial cal 50
E2P4366-IC4366	2P98006.D	12/03/20 23:31	n/a	Initial cal 25
E2P4366-IC4366	2P98007.D	12/03/20 23:57	n/a	Initial cal 10
E2P4366-IC4366	2P98008.D	12/04/20 00:23	n/a	Initial cal 5
E2P4366-IC4366	2P98009.D	12/04/20 00:50	n/a	Initial cal 2
E2P4366-IC4366	2P98010.D	12/04/20 01:16	n/a	Initial cal 1

Run Sequence Report

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Run ID: E2P4367	**Method:** SW846 8270E	**Instrument ID:** GCMS2P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E2P4367-DFTPP	2P98012.D	12/04/20 02:05	n/a	DFTPP Tune
E2P4367-IC4367	2P98013.D	12/04/20 02:16	n/a	Initial cal 100
E2P4367-IC4367	2P98014.D	12/04/20 02:42	n/a	Initial cal 80
E2P4367-ICC4367	2P98015.D	12/04/20 03:08	n/a	Initial cal 50
E2P4367-IC4367	2P98016.D	12/04/20 03:34	n/a	Initial cal 25
E2P4367-IC4367	2P98017.D	12/04/20 04:00	n/a	Initial cal 10
E2P4367-IC4367	2P98018.D	12/04/20 04:26	n/a	Initial cal 5
E2P4367-IC4367	2P98019.D	12/04/20 04:53	n/a	Initial cal 2
E2P4367-IC4367	2P98020.D	12/04/20 05:19	n/a	Initial cal 1
E2P4367-ICV4367	2P98021.D	12/04/20 05:45	n/a	Initial cal verification 50
E2P4367-ICV4367	2P98022.D	12/04/20 06:11	n/a	Initial cal verification 50
E2P4367-ICV4366	2P98023A.D	12/04/20 06:37	n/a	Initial cal verification 50
E2P4367-ICV4367	2P98023.D	12/04/20 06:37	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Run ID: E2P4412	**Method:** SW846 8270E	**Instrument ID:** GCMS2P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E2P4412-DFTPP	2P98981.D	01/15/21 12:35	n/a	DFTPP Tune
E2P4412-CC4365	2P98982.D	01/15/21 12:45	n/a	Continuing cal 25
E2P4412-CC4366	2P98983.D	01/15/21 13:11	n/a	Continuing cal 25
E2P4412-CC4367	2P98984.D	01/15/21 13:37	n/a	Continuing cal 25
OP31540-MB1	2P98985.D	01/15/21 14:46	OP31540	Method Blank
OP31540-BS1	2P98987.D	01/15/21 15:41	OP31540	Blank Spike
OP31540-BSD	2P98988.D	01/15/21 16:33	OP31540	Blank Spike Duplicate
ZZZZZZ	2P98989.D	01/15/21 16:59	OP31540	(unrelated sample)
ZZZZZZ	2P98990.D	01/15/21 17:24	OP31540	(unrelated sample)
ZZZZZZ	2P98991.D	01/15/21 17:50	OP31540	(unrelated sample)
ZZZZZZ	2P98992.D	01/15/21 18:16	OP31540	(unrelated sample)
ZZZZZZ	2P98993.D	01/15/21 18:42	OP31540	(unrelated sample)
ZZZZZZ	2P98994.D	01/15/21 19:08	OP31540	(unrelated sample)
ZZZZZZ	2P98995.D	01/15/21 19:34	OP31540	(unrelated sample)
JD18939-1	2P98996.D	01/15/21 20:00	OP31540	S-10R
ZZZZZZ	2P98997.D	01/15/21 20:26	OP31540	(unrelated sample)
ZZZZZZ	2P98998.D	01/15/21 20:52	OP31540	(unrelated sample)
ZZZZZZ	2P98999.D	01/15/21 21:18	OP31540	(unrelated sample)
JD18939-2	2P99000.D	01/15/21 21:44	OP31540	S-15R
JD18939-3	2P99001.D	01/15/21 22:09	OP31540	S-18R
OP31540-MS	2P99002.D	01/15/21 22:35	OP31540	Matrix Spike
OP31540-MSD	2P99003.D	01/15/21 23:01	OP31540	Matrix Spike Duplicate
JD18961-8	2P99004.D	01/15/21 23:27	OP31540	(used for QC only; not part of job JD18939)
ZZZZZZ	2P99005.D	01/15/21 23:53	OP31540	(unrelated sample)

MS Semi-volatiles

Raw Data

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1 Inst : MS2P
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 03:52:18 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.434	152	494066	40.00	ppm	0.00
24) Naphthalene-d8	5.419	136	1732980	40.00	ppm	0.00
47) Acenaphthene-d10	7.344	164	976985	40.00	ppm	0.00
69) Phenanthrene-d10	9.462	188	1583724	40.00	ppm	0.00
83) Chrysene-d12	13.623	240	1425848	40.00	ppm	0.00
91) Perylene-d12	15.736	264	1500111	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.434	152	494066	40.00	ppm	0.00
103) Naphthalene-d8a	5.419	136	1732980	40.00	ppm	0.00
105) Acenaphthene-d10a	7.344	164	976985	40.00	ppm	0.00
107) Chrysene-d12a	13.623	240	1425848	40.00	ppm	0.00
109) Phenanthrene-d10a	9.462	188	1583724	40.00	ppm	0.00
112) 1,4-Dichlorobenzene-d4b	4.434	152	494066	40.00	ppm	0.00
115) Acenaphthene-d10b	7.344	164	976985	40.00	ppm	0.00
117) Phenanthrene-d10b	9.462	188	1583724	40.00	ppm	0.00
120) Chrysene-d12b	13.623	240	1425848	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.520	112	435867	25.89	ppm	0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 51.78%			
8) Phenol-d5	4.226	99	535604	25.12	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 50.24%			
25) Nitrobenzene-d5	4.841	82	671342	34.51	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 69.02%#			
51) 2-Fluorobiphenyl	6.526	172	935751	29.12	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 58.24%#			
73) 2,4,6-Tribromophenol	8.451	330	184125	32.15	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 64.30%			
85) Terphenyl-d14	12.013	244	1250491	37.66	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 75.32%#			
118) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
119) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
Target Compounds						Qvalue
38) Naphthalene	5.435	128	20460	0.47	ppm	99
44) 2-Methylnaphthalene	6.114	141	4307	0.19	ppm	90
56) Acenaphthylene	7.157	152	56256	1.26	ppm	98
59) Acenaphthene	7.387	153	5583	0.19	ppm	91
62) Dibenzofuran	7.628	168	5847	0.15	ppm	91
66) Fluorene	8.098	166	11160	0.35	ppm	96
77) Phenanthrene	9.494	178	148089	3.52	ppm	99
78) Anthracene	9.575	178	51864	1.23	ppm	99
79) Carbazole	9.874	167	11263	0.28	ppm	96
81) Fluoranthene	11.340	202	415366	8.99	ppm	99
84) Pyrene	11.682	202	434333	10.27	ppm	99
87) Benzo[a]anthracene	13.607	228	243560	5.88	ppm	99
89) Chrysene	13.656	228	239895	6.04	ppm	96
93) Benzo[b]fluoranthene	15.217	252	314425	7.02	ppm	98
94) Benzo[k]fluoranthene	15.249	252	102775	2.49	ppm	94
95) Benzo[a]pyrene	15.651	252	223256	5.74	ppm	98
96) Indeno[1,2,3-cd]pyrene	17.095	276	152310	3.65	ppm	96
98) Dibenz[a,h]anthracene	17.116	278	41167	0.95	ppm	99
100) Benzo[g,h,i]perylene	17.437	276	144831	3.52	ppm	98

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1 Inst : MS2P
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 03:52:18 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

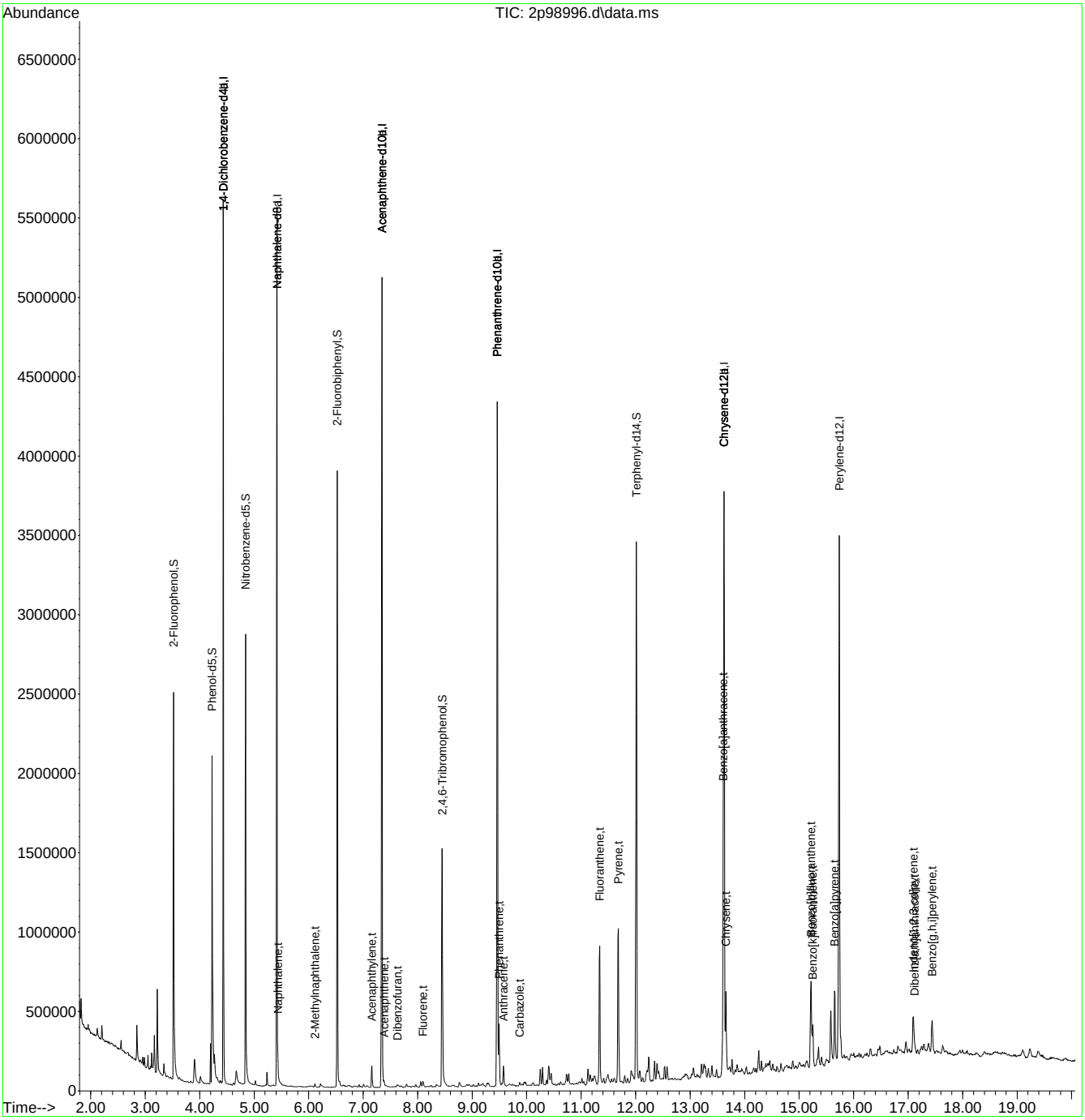
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

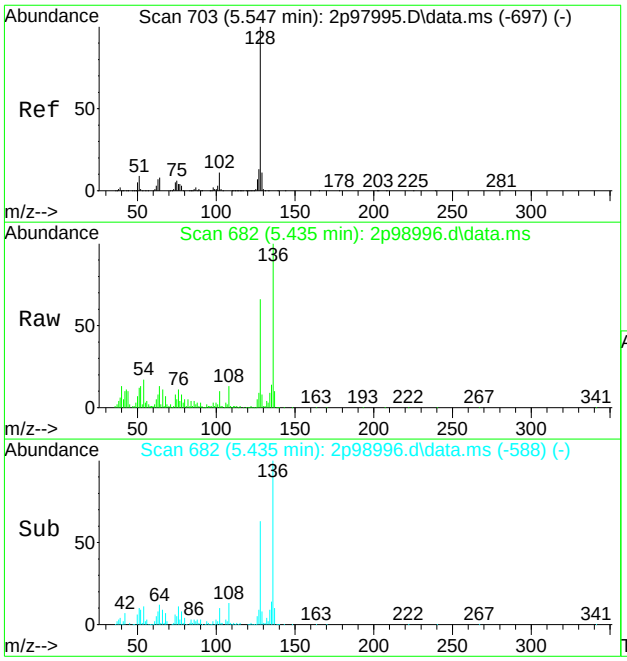
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1 Inst : MS2P
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 03:52:18 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

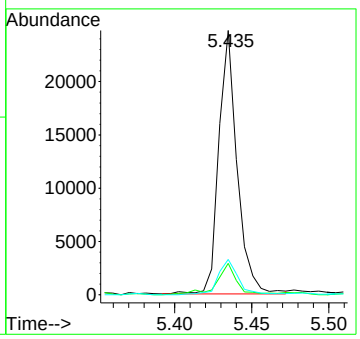


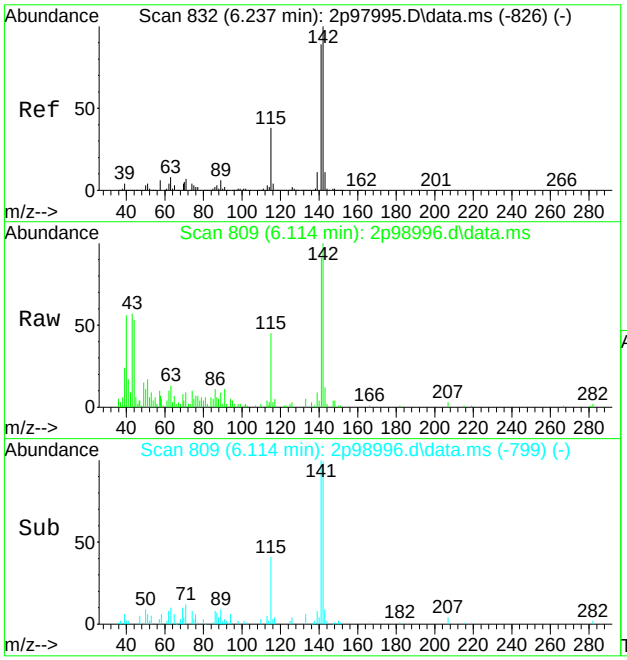


#38
Naphthalene
Concen: 0.47 ppm
RT: 5.435 min Scan# 682
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:128 Resp: 20460

Ion	Ratio	Lower	Upper
128	100		
129	11.6	0.0	41.2
127	13.3	0.0	43.7

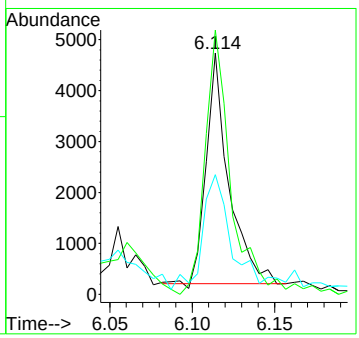


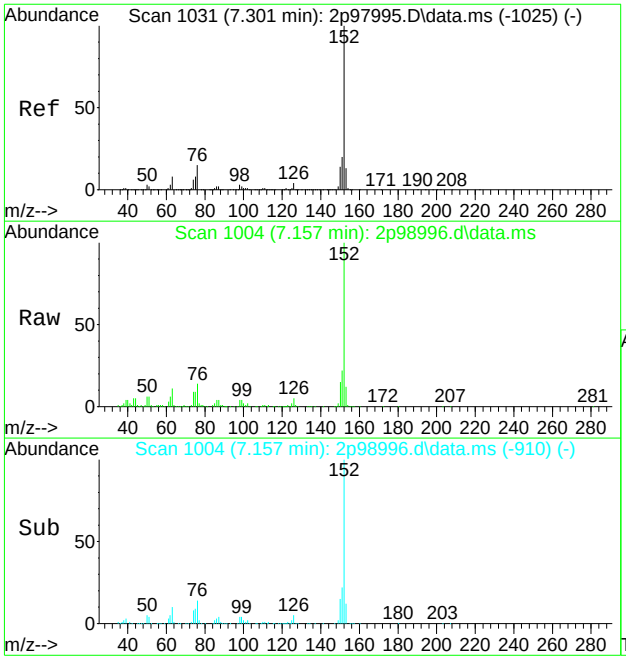


#44
2-Methylnaphthalene
Concen: 0.19 ppm
RT: 6.114 min Scan# 809
Delta R.T. 0.006 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:141 Resp: 4307

Ion	Ratio	Lower	Upper
141	100		
142	111.7	88.6	148.6
115	45.0	27.1	87.1

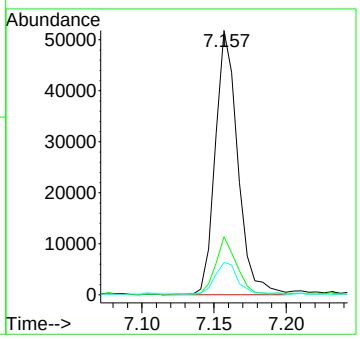


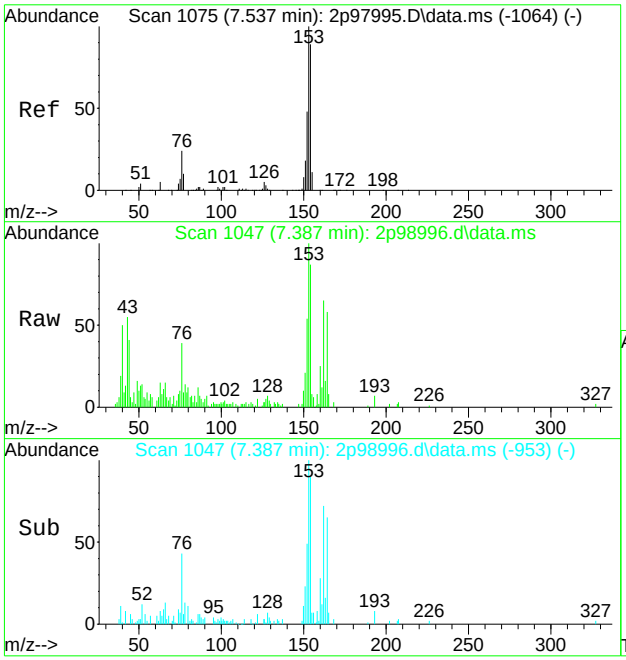


#56
Acenaphthylene
Concen: 1.26 ppm
RT: 7.157 min Scan# 1004
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:152 Resp: 56256

Ion	Ratio	Lower	Upper
152	100		
151	21.8	0.0	50.7
153	12.0	0.0	42.9

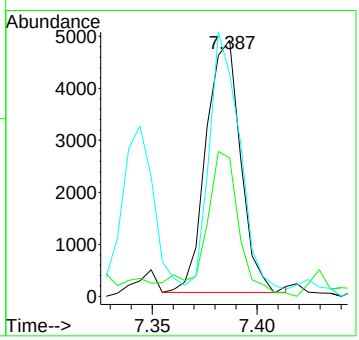


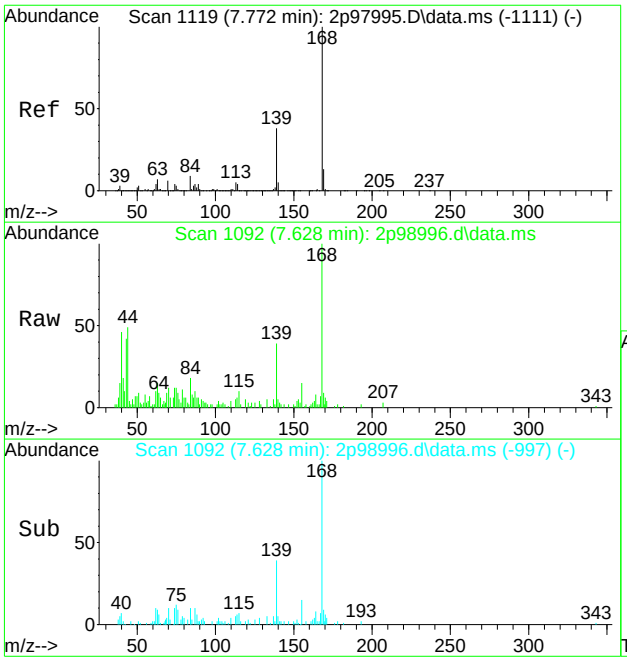


#59
Acenaphthene
Concen: 0.19 ppm
RT: 7.387 min Scan# 1047
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:153 Resp: 5583

Ion	Ratio	Lower	Upper
153	100		
152	52.1	18.0	78.0
154	80.8	60.1	120.1

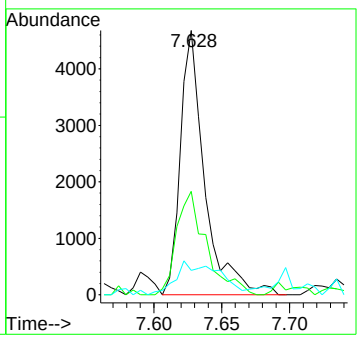


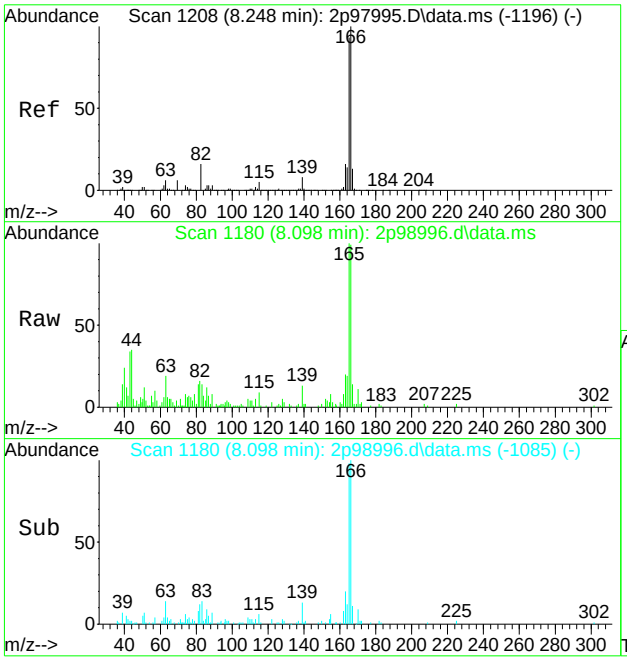


#62
Dibenzofuran
Concen: 0.15 ppm
RT: 7.628 min Scan# 1092
Delta R.T. 0.006 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:168 Resp: 5847

Ion	Ratio	Lower	Upper
168	100		
139	37.1	10.6	70.6
169	5.2	0.0	42.9

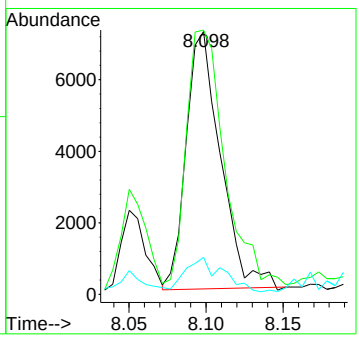


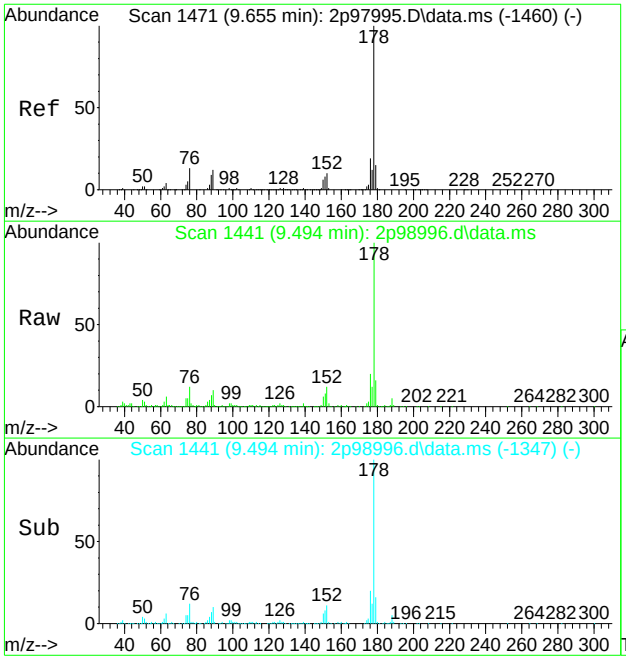


#66
Fluorene
Concen: 0.35 ppm
RT: 8.098 min Scan# 1180
Delta R.T. 0.006 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:166 Resp: 11160

Ion	Ratio	Lower	Upper
166	100		
165	99.7	65.3	125.3
167	11.9	0.0	43.3

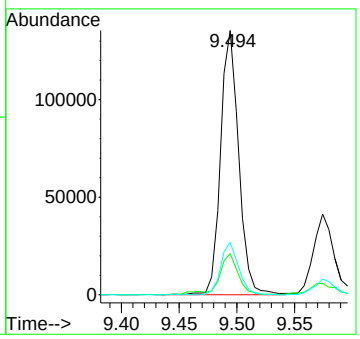


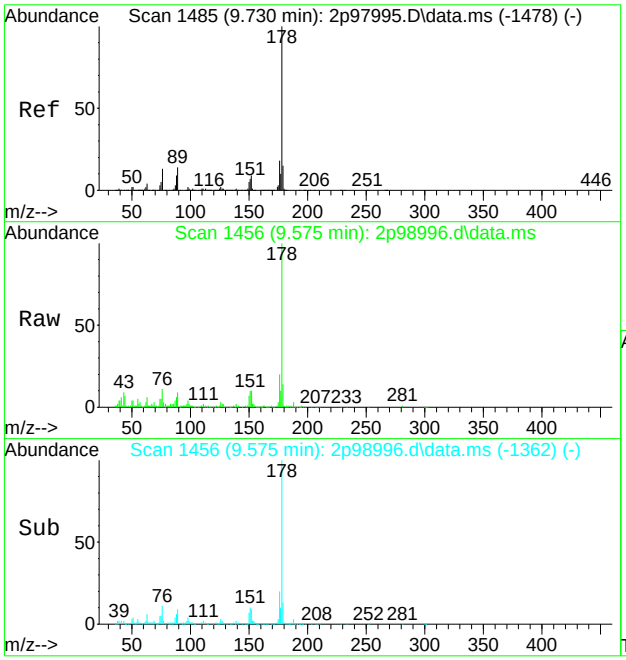


#77
Phenanthrene
Concen: 3.52 ppm
RT: 9.494 min Scan# 1441
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:178 Resp: 148089

Ion	Ratio	Lower	Upper
178	100		
179	15.5	0.0	44.9
176	19.9	0.0	49.2

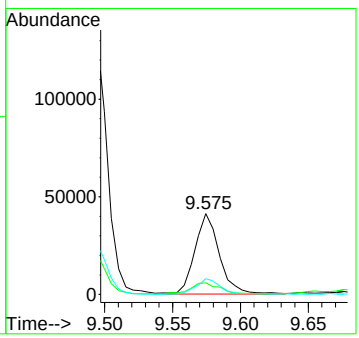


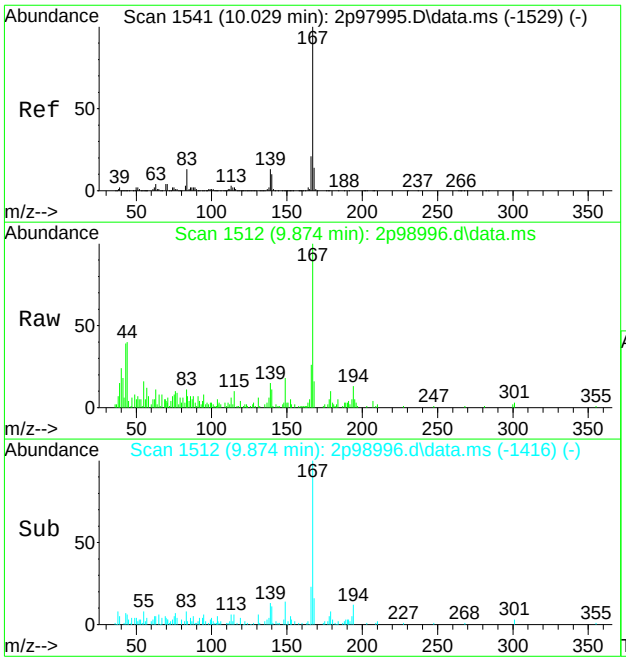


#78
Anthracene
Concen: 1.23 ppm
RT: 9.575 min Scan# 1456
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:178 Resp: 51864

Ion	Ratio	Lower	Upper
178	100		
179	13.8	0.0	44.8
176	19.4	0.0	49.1

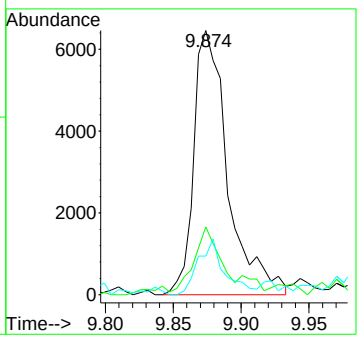


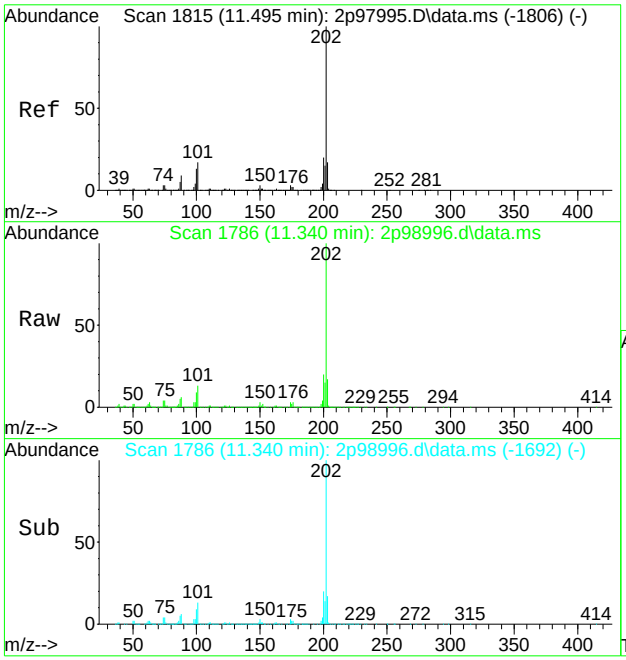


#79
Carbazole
Concen: 0.28 ppm
RT: 9.874 min Scan# 1512
Delta R.T. 0.011 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:167 Resp: 11263

Ion	Ratio	Lower	Upper
167	100		
166	22.7	0.0	51.3
139	12.5	0.0	44.4

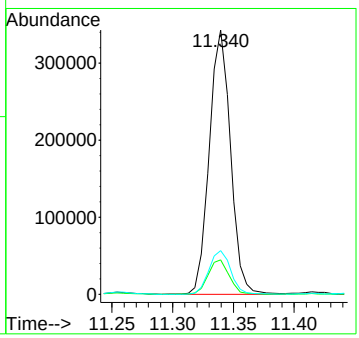


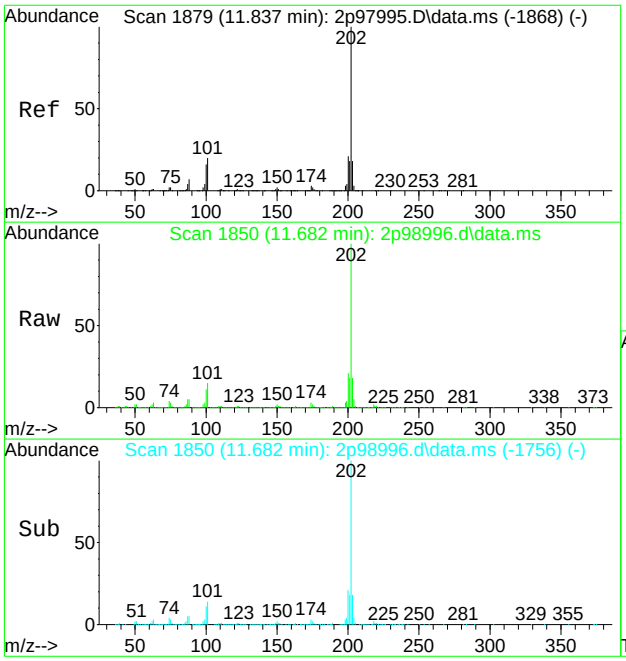


#81
Fluoranthene
Concen: 8.99 ppm
RT: 11.340 min Scan# 1786
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:202 Resp: 415366

Ion	Ratio	Lower	Upper
202	100		
101	13.0	0.0	43.7
203	16.6	0.0	46.5

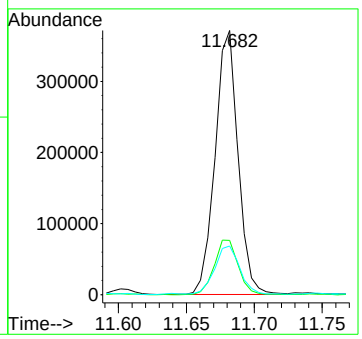


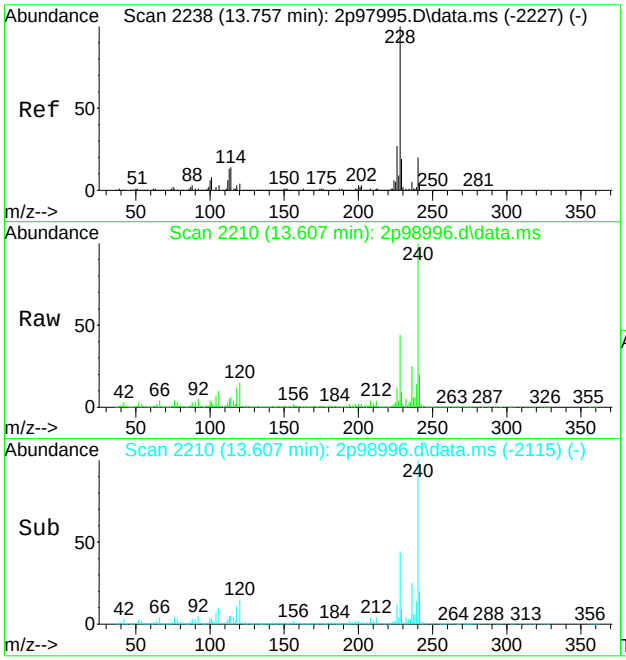


#84
Pyrene
Concen: 10.27 ppm
RT: 11.682 min Scan# 1850
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:202 Resp: 434333

Ion	Ratio	Lower	Upper
202	100		
200	20.5	0.0	50.9
203	18.2	0.0	47.9

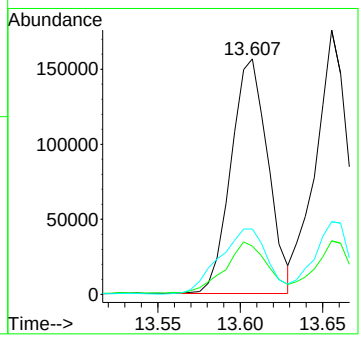


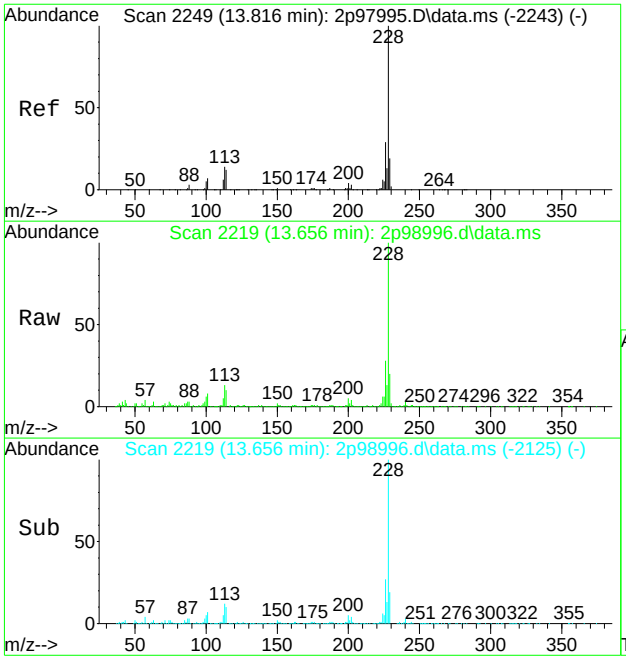


#87
Benzo[a]anthracene
Concen: 5.88 ppm
RT: 13.607 min Scan# 2210
Delta R.T. 0.006 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:228 Resp: 243560

Ion	Ratio	Lower	Upper
228	100		
229	19.4	0.0	50.0
226	27.2	0.0	56.8

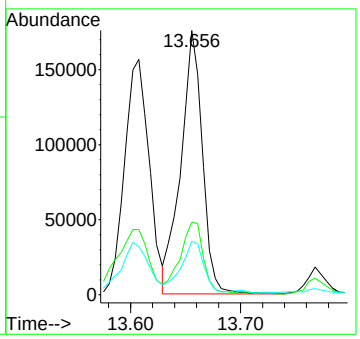


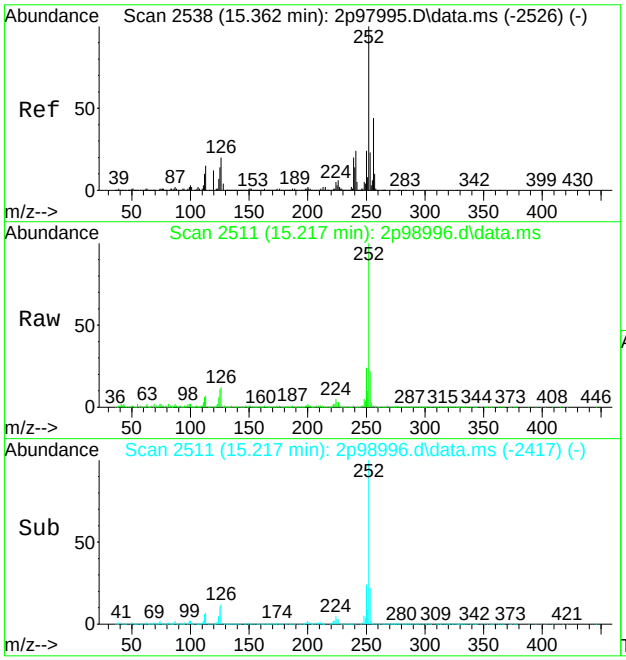


#89
Chrysene
Concen: 6.04 ppm
RT: 13.656 min Scan# 2219
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:228 Resp: 239895

Ion	Ratio	Lower	Upper
228	100		
226	26.9	0.3	60.3
229	19.0	0.0	49.6

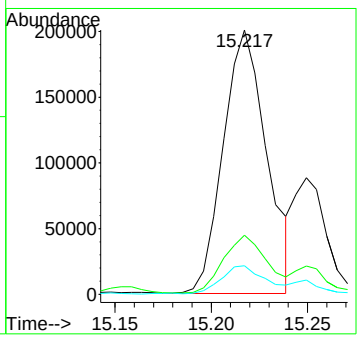


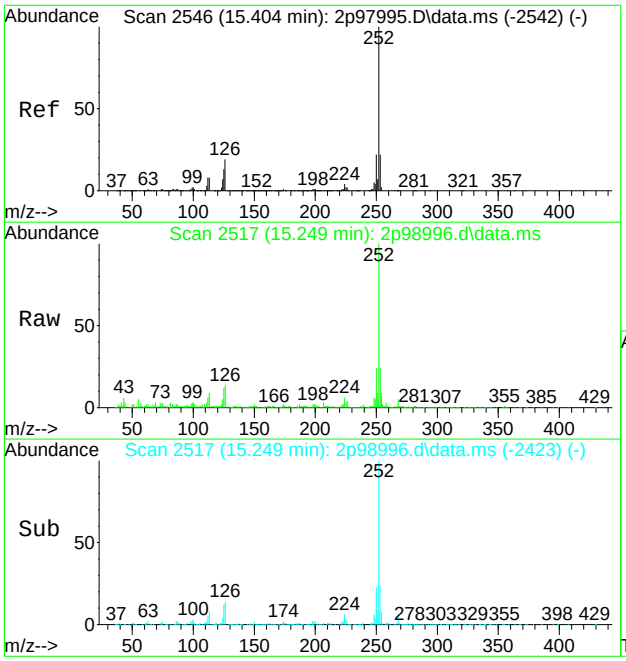


#93
Benzo[b]fluoranthene
Concen: 7.02 ppm
RT: 15.217 min Scan# 2511
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:252 Resp: 314425

Ion	Ratio	Lower	Upper
252	100		
253	22.1	0.0	51.4
125	10.5	0.0	39.2

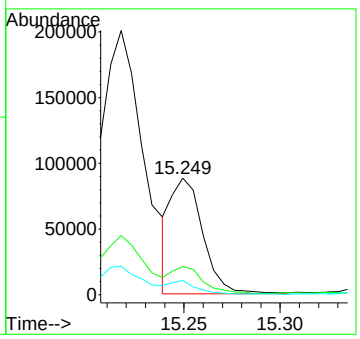


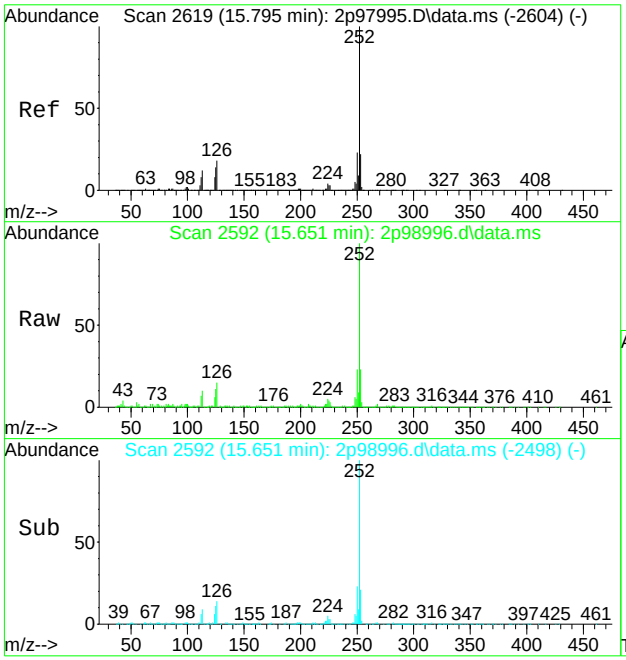


#94
Benzo[k]fluoranthene
Concen: 2.49 ppm
RT: 15.249 min Scan# 2517
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:252 Resp: 102775

Ion	Ratio	Lower	Upper
252	100		
253	24.5	0.0	51.6
125	12.5	0.0	40.9

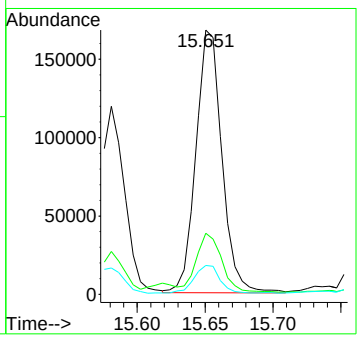


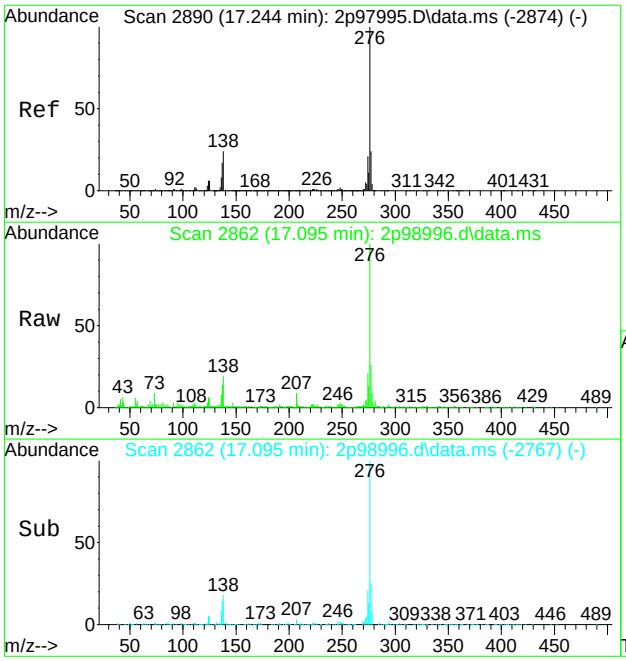


#95
Benzo[a]pyrene
Concen: 5.74 ppm
RT: 15.651 min Scan# 2592
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:252 Resp: 223256

Ion	Ratio	Lower	Upper
252	100		
253	20.8	0.0	51.7
125	10.6	0.0	41.0

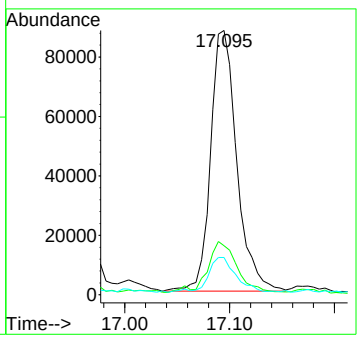


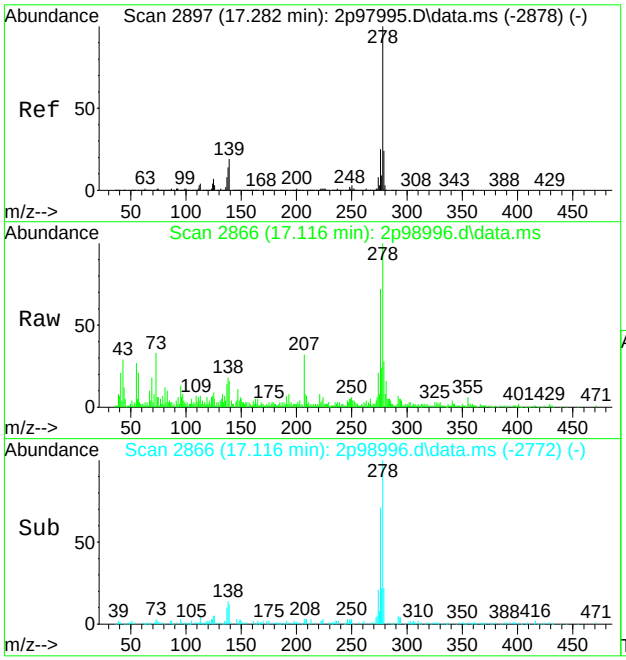


#96
Indeno[1,2,3-cd]pyrene
Concen: 3.65 ppm
RT: 17.095 min Scan# 2862
Delta R.T. 0.006 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:276 Resp: 152310

Ion	Ratio	Lower	Upper
276	100		
138	17.8	0.0	49.6
137	12.7	0.0	44.3

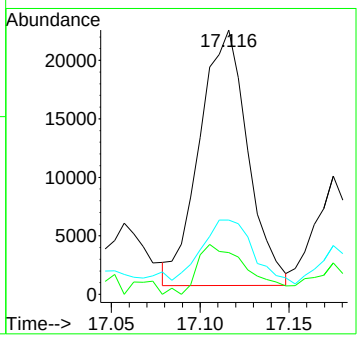


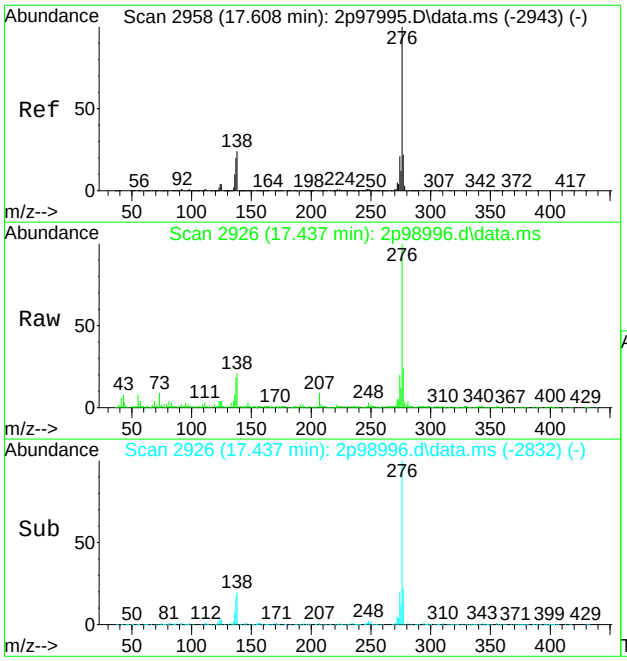


#98
Dibenz[a,h]anthracene
Concen: 0.95 ppm
RT: 17.116 min Scan# 2866
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:278 Resp: 41167

Ion	Ratio	Lower	Upper
278	100		
139	15.8	0.0	45.6
279	23.0	0.0	53.3

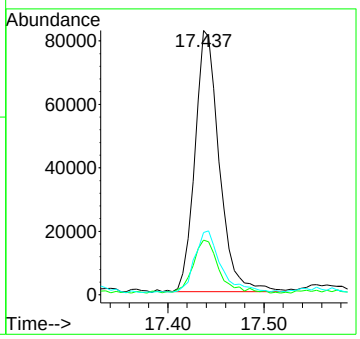




#100
Benzo[g,h,i]perylene
Concen: 3.52 ppm
RT: 17.437 min Scan# 2926
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:276 Resp: 144831

Ion	Ratio	Lower	Upper
276	100		
138	20.1	0.0	51.4
277	22.7	0.0	53.7



LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p98996.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	5	7	23	rVB2	192857	258740	4.76%	0.430%
2	2.119	60	62	74	rVV2	63898	82918	1.52%	0.138%
3	2.204	75	78	89	rVB2	104262	126205	2.32%	0.210%
4	2.557	141	144	152	rVB3	70127	73006	1.34%	0.121%
5	2.846	194	198	208	rVB3	234877	256663	4.72%	0.426%
6	2.985	221	224	229	rVB3	67690	62649	1.15%	0.104%
7	3.049	231	236	241	rVB2	89795	91043	1.67%	0.151%
8	3.119	243	249	252	rBV2	105816	105433	1.94%	0.175%
9	3.167	253	258	263	rVB	235028	241551	4.44%	0.401%
10	3.220	264	268	285	rVB	543213	540664	9.94%	0.898%
11	3.343	287	291	299	rVB2	83801	101928	1.87%	0.169%
12	3.520	319	324	341	rVV	2439632	2183261	40.15%	3.627%
13	3.905	389	396	413	rVB	151594	280128	5.15%	0.465%
14	4.012	413	416	432	rVB	46574	96302	1.77%	0.160%
15	4.199	448	451	453	rBV	257279	155431	2.86%	0.258%
16	4.226	453	456	463	rBV	2058055	1995510	36.70%	3.315%
17	4.269	463	464	472	rVB	150287	149913	2.76%	0.249%
18	4.429	489	494	508	rVB	5574840	4187614	77.01%	6.957%
19	4.670	534	539	559	rVV2	91415	253628	4.66%	0.421%
20	4.841	565	571	598	rVV	2845549	2353392	43.28%	3.910%
21	5.237	641	645	656	rVB	89803	93251	1.71%	0.155%
22	5.419	671	679	700	rVV	5542754	4760396	87.55%	7.908%
23	6.526	877	886	899	rBV	3884451	3411770	62.74%	5.668%
24	7.157	998	1004	1015	rVB	138171	161804	2.98%	0.269%
25	7.344	1029	1039	1059	rBV	5106749	4911712	90.33%	8.160%
26	8.055	1167	1172	1176	rBV5	36823	51893	0.95%	0.086%
27	8.098	1176	1180	1189	rVB2	36311	60297	1.11%	0.100%
28	8.446	1240	1245	1268	rBV	1500068	1894595	34.84%	3.147%
29	8.767	1300	1305	1316	rBV3	29369	56696	1.04%	0.094%
30	9.462	1428	1435	1439	rVV2	4317631	4847321	89.14%	8.053%
31	9.494	1439	1441	1448	rVV	396962	399290	7.34%	0.663%
32	9.575	1448	1456	1467	rVV2	128621	198452	3.65%	0.330%
33	10.248	1576	1582	1586	rBV	104704	123632	2.27%	0.205%
34	10.291	1586	1590	1598	rVB	111379	124242	2.28%	0.206%
35	10.404	1606	1611	1616	rVV2	114193	182316	3.35%	0.303%
36	10.446	1616	1619	1628	rVB	72872	103841	1.91%	0.173%
37	10.730	1665	1672	1676	rBV	66068	104890	1.93%	0.174%
38	10.773	1676	1680	1690	rVB2	67459	94223	1.73%	0.157%
39	11.126	1738	1746	1750	rBV2	103062	154583	2.84%	0.257%
40	11.168	1750	1754	1758	rVB5	44450	56275	1.03%	0.093%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

41	11.238	1764	1767	1777	rVB4	54534	133495	2.46%	0.222%
42	11.340	1777	1786	1795	rBV	873826	1153859	21.22%	1.917%
43	11.489	1804	1814	1823	rBV2	57061	150830	2.77%	0.251%
44	11.682	1844	1850	1858	rBV	970563	1238010	22.77%	2.057%
45	11.800	1868	1872	1877	rBV3	47913	67522	1.24%	0.112%
46	11.917	1888	1894	1904	rBV6	78313	215006	3.95%	0.357%
47	12.013	1904	1912	1920	rBV	3387072	3921278	72.11%	6.514%
48	12.072	1920	1923	1929	rVB2	68569	116847	2.15%	0.194%
49	12.211	1939	1949	1951	rBV4	75969	159337	2.93%	0.265%
50	12.238	1951	1954	1961	rVB	154698	207827	3.82%	0.345%
51	12.345	1968	1974	1979	rBV	127538	170448	3.13%	0.283%
52	12.393	1979	1983	1987	rBV	100598	142237	2.62%	0.236%
53	12.425	1987	1989	1997	rVB3	51963	58023	1.07%	0.096%
54	12.532	2005	2009	2013	rVB	78901	100861	1.85%	0.168%
55	12.575	2013	2017	2023	rVB2	86107	110799	2.04%	0.184%
56	12.933	2082	2084	2092	rVB7	33597	59955	1.10%	0.100%
57	13.030	2092	2102	2104	rBV9	35684	67097	1.23%	0.111%
58	13.062	2104	2108	2117	rVB2	59312	93591	1.72%	0.155%
59	13.212	2130	2136	2139	rBV	88658	123574	2.27%	0.205%
60	13.254	2139	2144	2147	rBV2	62532	90283	1.66%	0.150%
61	13.335	2154	2159	2165	rVB3	58645	82025	1.51%	0.136%
62	13.399	2165	2171	2178	rBV	75701	113734	2.09%	0.189%
63	13.484	2184	2187	2192	rVB	53644	62308	1.15%	0.104%
64	13.623	2199	2213	2217	rBV	3692449	5437623	100.00%	9.033%
65	13.656	2217	2219	2226	rVV	505497	574033	10.56%	0.954%
66	13.768	2236	2240	2246	rVB	95314	114041	2.10%	0.189%
67	13.864	2254	2258	2265	rBV4	48296	68866	1.27%	0.114%
68	13.944	2271	2273	2283	rVB4	35422	64887	1.19%	0.108%
69	14.035	2283	2290	2296	rVB6	46689	75887	1.40%	0.126%
70	14.169	2309	2315	2319	rBV7	33399	56786	1.04%	0.094%
71	14.260	2325	2332	2337	rBV	139353	206189	3.79%	0.343%
72	14.308	2337	2341	2345	rVB	68361	77318	1.42%	0.128%
73	14.463	2366	2370	2376	rVB3	62522	90701	1.67%	0.151%
74	14.517	2376	2380	2385	rBV6	41255	53969	0.99%	0.090%
75	14.592	2391	2394	2401	rVB2	35958	53586	0.99%	0.089%
76	14.666	2403	2408	2417	rBV3	52122	84351	1.55%	0.140%
77	14.886	2444	2449	2455	rBV7	51066	70027	1.29%	0.116%
78	15.009	2466	2472	2479	rBV8	32188	78050	1.44%	0.130%
79	15.142	2490	2497	2505	rVB10	43122	107434	1.98%	0.178%
80	15.217	2505	2511	2515	rBV	545805	894386	16.45%	1.486%
81	15.249	2515	2517	2524	rVB	263607	298128	5.48%	0.495%
82	15.356	2527	2537	2542	rBV2	119457	219119	4.03%	0.364%
83	15.410	2544	2547	2556	rVB	60495	102490	1.88%	0.170%
84	15.501	2557	2564	2571	rBV5	43678	131421	2.42%	0.218%
85	15.581	2574	2579	2586	rBV	328009	488016	8.97%	0.811%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

86	15.651	2587	2592	2600	rVV	434180	586962	10.79%	0.975%
87	15.736	2600	2608	2620	rVV	3297275	4394558	80.82%	7.300%
88	15.955	2643	2649	2652	rBV7	41169	82597	1.52%	0.137%
89	16.303	2711	2714	2722	rVB4	46842	77621	1.43%	0.129%
90	16.448	2737	2741	2743	rBV5	45548	64101	1.18%	0.106%
91	16.480	2745	2747	2752	rVB2	58863	70782	1.30%	0.118%
92	16.811	2805	2809	2815	rBV7	46772	85888	1.58%	0.143%
93	16.961	2831	2837	2842	rBV4	74420	130348	2.40%	0.217%
94	17.095	2857	2862	2873	rVB3	232403	473137	8.70%	0.786%
95	17.287	2895	2898	2904	rVV3	42656	64416	1.18%	0.107%
96	17.373	2910	2914	2921	rVV9	56990	109809	2.02%	0.182%
97	17.442	2921	2927	2936	rVB	209248	371935	6.84%	0.618%
98	17.635	2958	2963	2969	rBV	51575	97425	1.79%	0.162%
99	19.234	3256	3262	3272	rVB2	51261	125145	2.30%	0.208%
100	19.384	3285	3290	3301	rVB4	32917	87744	1.61%	0.146%

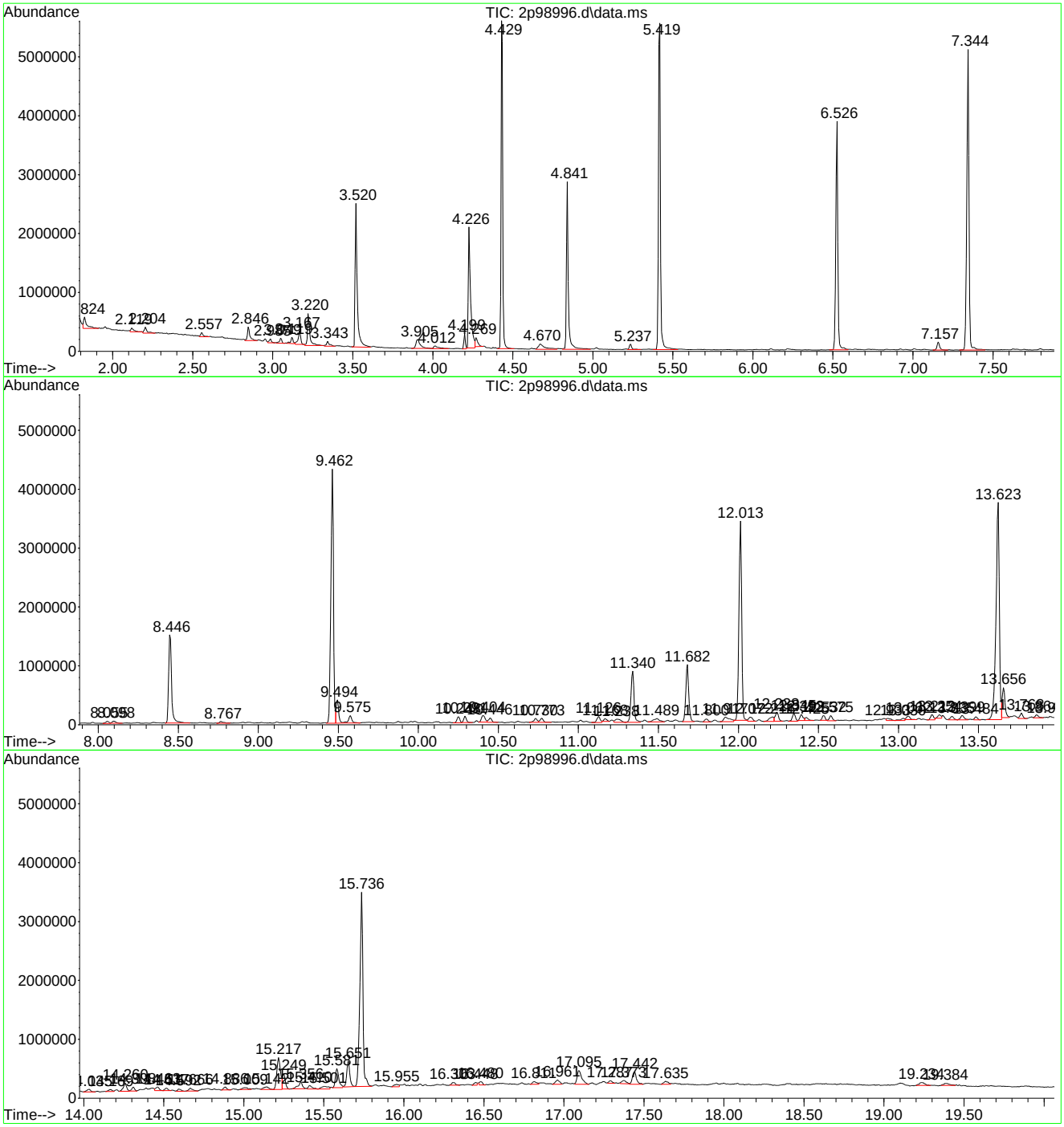
Sum of corrected areas: 60196180

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

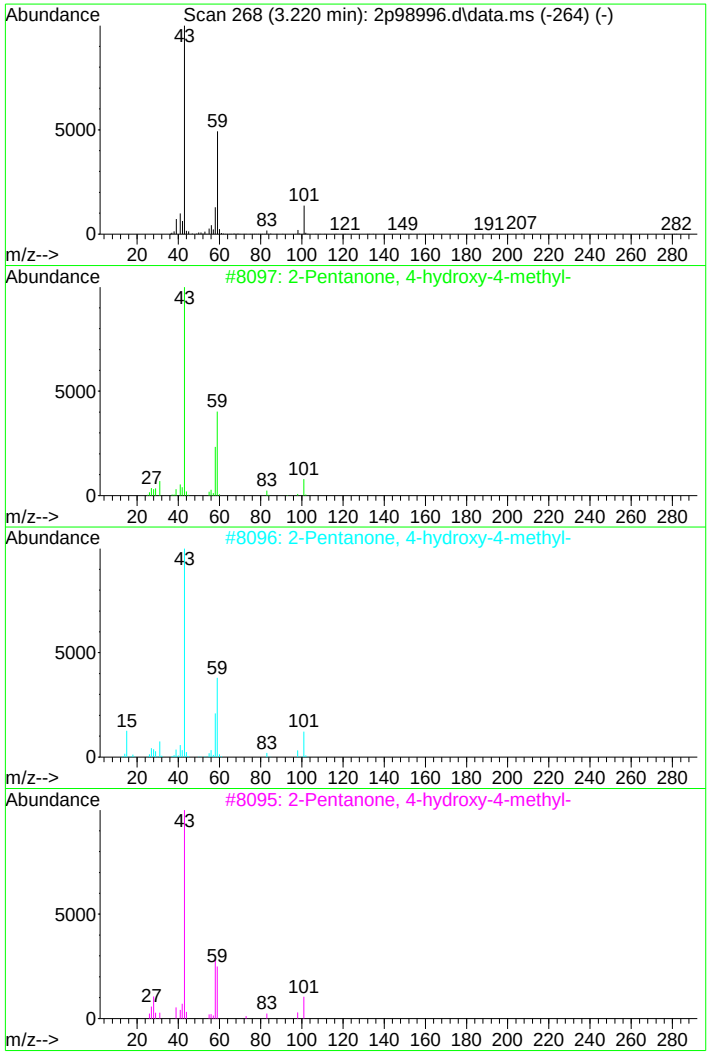
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

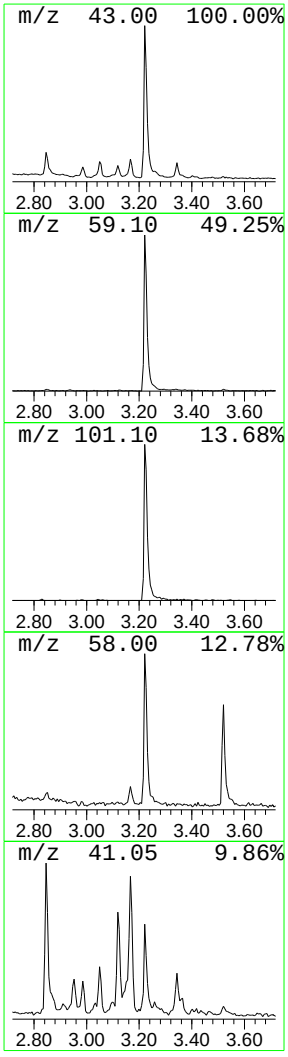
****

Peak Number 1 System artifact/aldol-conde... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.220	5.16 ppm	540664	1,4-Dichlorobenzene-d4a	4.434

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	25
4	1-Butene, 4-ethoxy-	100	C6H12O	044611-46-3	23
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

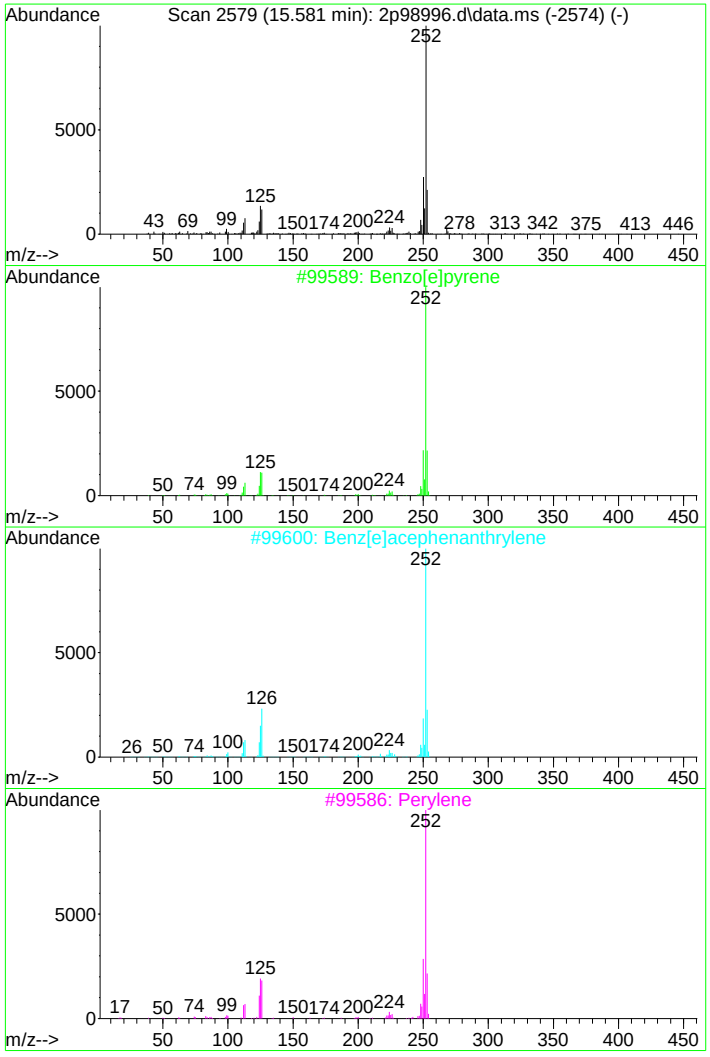
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

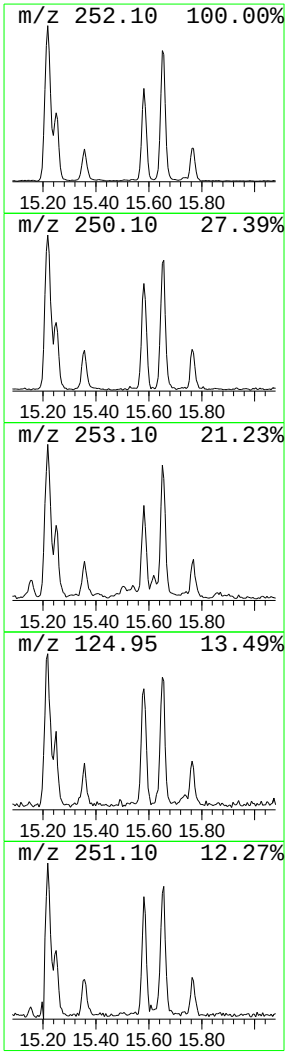
****

Peak Number 2 Unknown PAH substance Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.581	4.44 ppm	488016	Perylene-d12	15.736

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
3	Perylene	252	C20H12	000198-55-0	90
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Benzo[e]pyrene	252	C20H12	000192-97-2	90





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact...	3.220	5.2	ppm	540664	2	4.434	4187610	40.0
Unknown PAH sub...	15.581	4.4	ppm	488016	15	15.736	4394560	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
01/18/21 10:19

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2 Inst : MS2P
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 04:05:25 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.429	152	350081	40.00	ppm	0.00
24) Naphthalene-d8	5.419	136	1281323	40.00	ppm	0.00
47) Acenaphthene-d10	7.344	164	743837	40.00	ppm	0.00
69) Phenanthrene-d10	9.462	188	1205170	40.00	ppm	0.00
83) Chrysene-d12	13.629	240	1126776	40.00	ppm	0.01
91) Perylene-d12	15.752	264	1255285	40.00	ppm	0.02
101) 1,4-Dichlorobenzene-d4a	4.429	152	350081	40.00	ppm	0.00
103) Naphthalene-d8a	5.419	136	1281323	40.00	ppm	0.00
105) Acenaphthene-d10a	7.344	164	743837	40.00	ppm	0.00
107) Chrysene-d12a	13.629	240	1126776	40.00	ppm	0.01
109) Phenanthrene-d10a	9.462	188	1205170	40.00	ppm	0.00
112) 1,4-Dichlorobenzene-d4b	4.429	152	350081	40.00	ppm	0.00
115) Acenaphthene-d10b	7.344	164	743812	40.00	ppm	0.00
117) Phenanthrene-d10b	9.462	188	1205170	40.00	ppm	0.00
120) Chrysene-d12b	13.629	240	1126776	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.515	112	271344	22.75	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 45.50%			
8) Phenol-d5	4.231	99	357172	23.64	ppm	0.01
Spiked Amount 50.000	Range 10 - 59		Recovery = 47.28%			
25) Nitrobenzene-d5	4.841	82	416842	28.98	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 57.96%			
51) 2-Fluorobiphenyl	6.526	172	601750	24.60	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 49.20%			
73) 2,4,6-Tribromophenol	8.451	330	117043	26.86	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 53.72%			
85) Terphenyl-d14	12.014	244	749146	28.55	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 57.10%			
118) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
119) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
Target Compounds						Qvalue
38) Naphthalene	5.435	128	20649	0.65	ppm	98
44) 2-Methylnaphthalene	6.109	141	14634	0.86	ppm	96
53) Biphenyl	6.638	154	7816	0.27	ppm	98
56) Acenaphthylene	7.157	152	51633	1.51	ppm	97
59) Acenaphthene	7.387	153	55897m	2.48	ppm	
62) Dibenzofuran	7.622	168	42865	1.42	ppm	97
66) Fluorene	8.093	166	76595	3.15	ppm	100
77) Phenanthrene	9.500	178	760757	23.74	ppm	99
78) Anthracene	9.575	178	215957	6.73	ppm	99
79) Carbazole	9.869	167	76520	2.54	ppm	99
81) Fluoranthene	11.345	202	1381559	39.28	ppm	99
84) Pyrene	11.687	202	1197101	35.81	ppm	97
87) Benzo[a]anthracene	13.618	228	594358	18.15	ppm	98
89) Chrysene	13.666	228	647144	20.63	ppm	98
90) bis(2-Ethylhexyl)phtha...	13.837	149	51196	2.34	ppm	93
93) Benzo[b]fluoranthene	15.233	252	894896	23.86	ppm	97
94) Benzo[k]fluoranthene	15.265	252	252480	7.30	ppm	94
95) Benzo[a]pyrene	15.672	252	586479	18.01	ppm	97
96) Indeno[1,2,3-cd]pyrene	17.121	276	441450	12.64	ppm	99
98) Dibenz[a,h]anthracene	17.138	278	115840	3.19	ppm	97
100) Benzo[g,h,i]perylene	17.480	276	425144	12.36	ppm	99

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2 Inst : MS2P
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 04:05:25 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

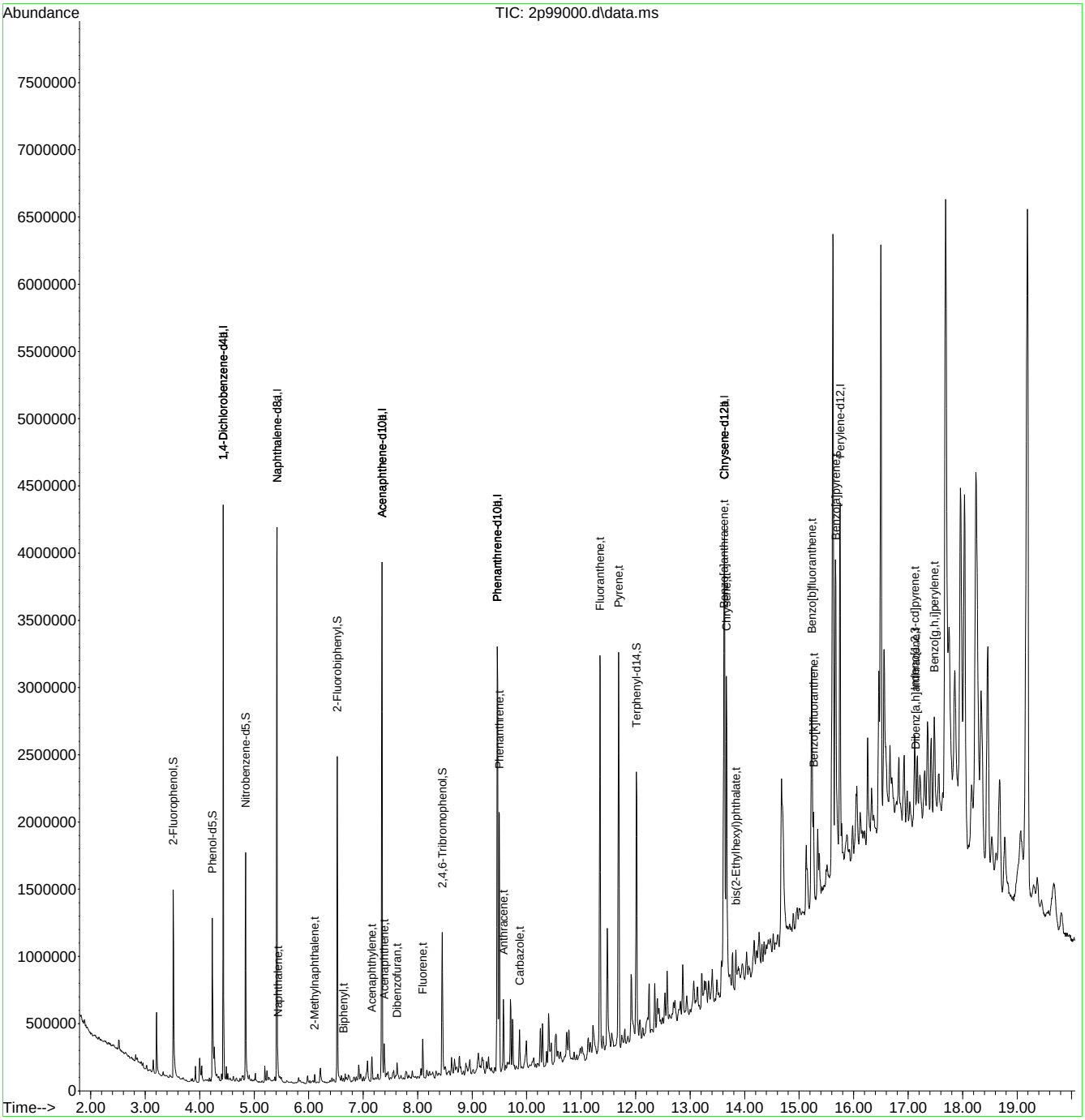
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

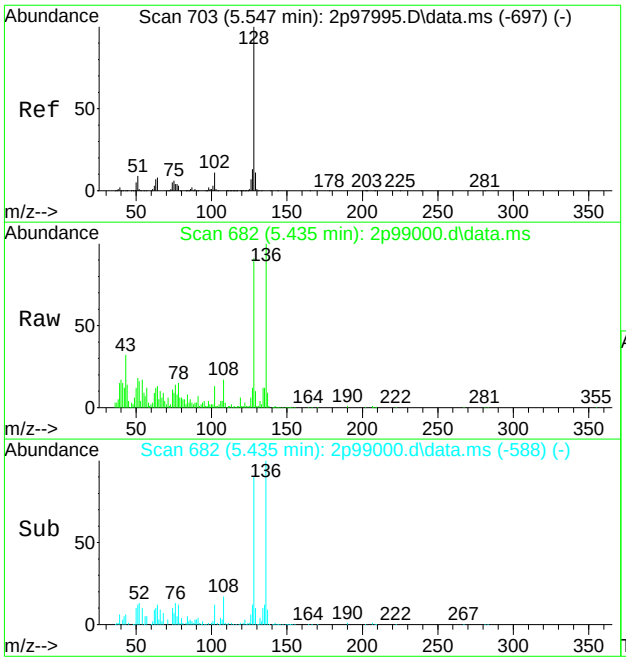
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2 Inst : MS2P
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 04:05:25 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

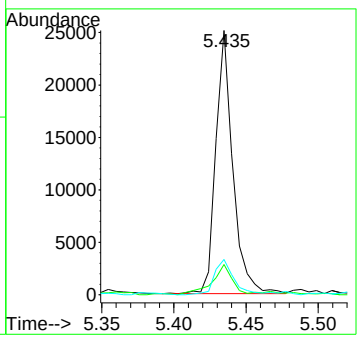


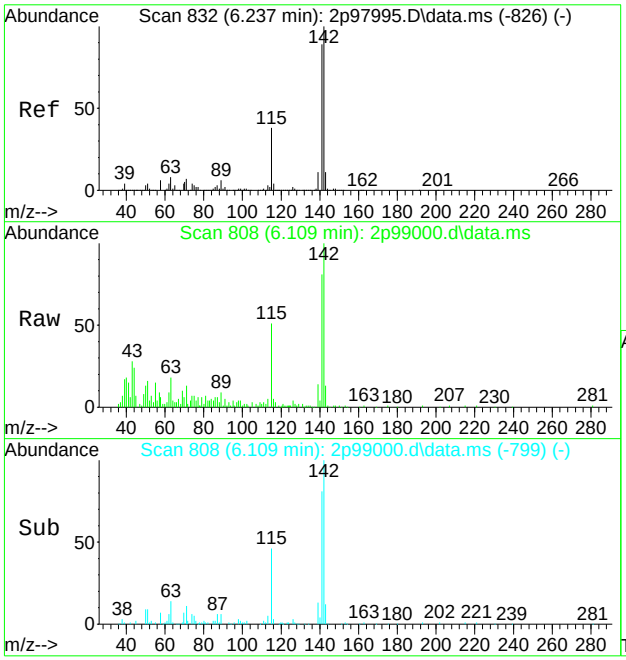


#38
Naphthalene
Concen: 0.65 ppm
RT: 5.435 min Scan# 682
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:128 Resp: 20649

Ion	Ratio	Lower	Upper
128	100		
129	10.9	0.0	41.2
127	12.5	0.0	43.7

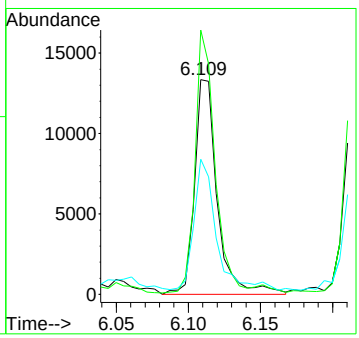


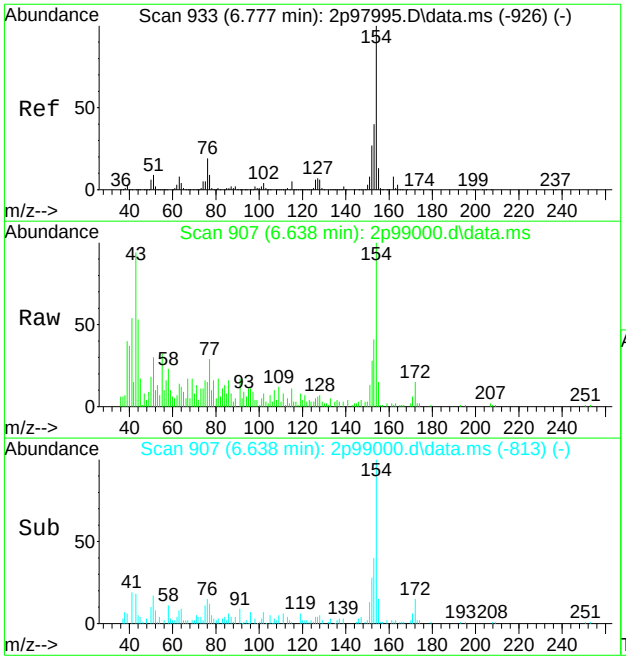


#44
2-Methylnaphthalene
Concen: 0.86 ppm
RT: 6.109 min Scan# 808
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:141 Resp: 14634

Ion	Ratio	Lower	Upper
141	100		
142	123.0	88.6	148.6
115	60.4	27.1	87.1

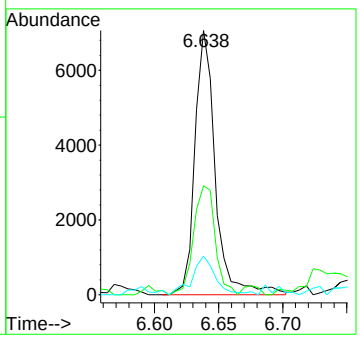


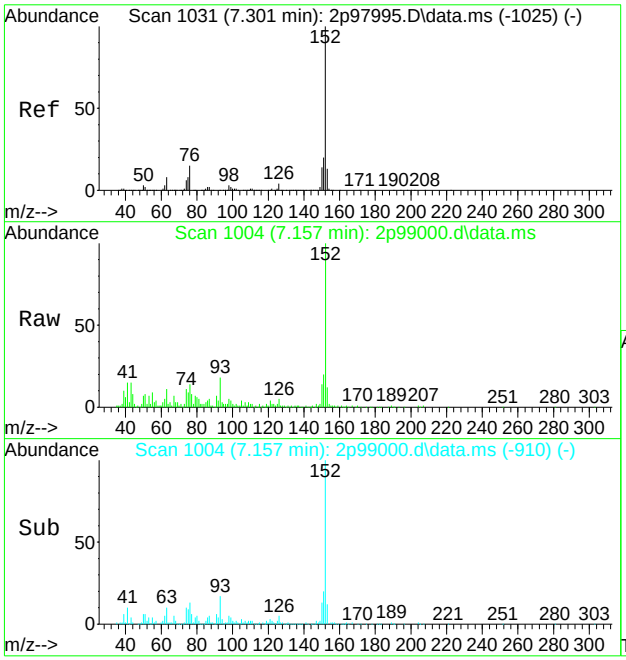


#53
Biphenyl
Concen: 0.27 ppm
RT: 6.638 min Scan# 907
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:154 Resp: 7816

Ion	Ratio	Lower	Upper
154	100		
153	39.9	11.2	71.2
155	13.0	0.0	42.9

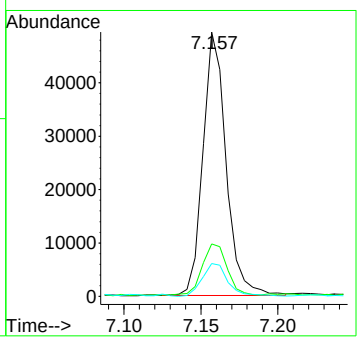


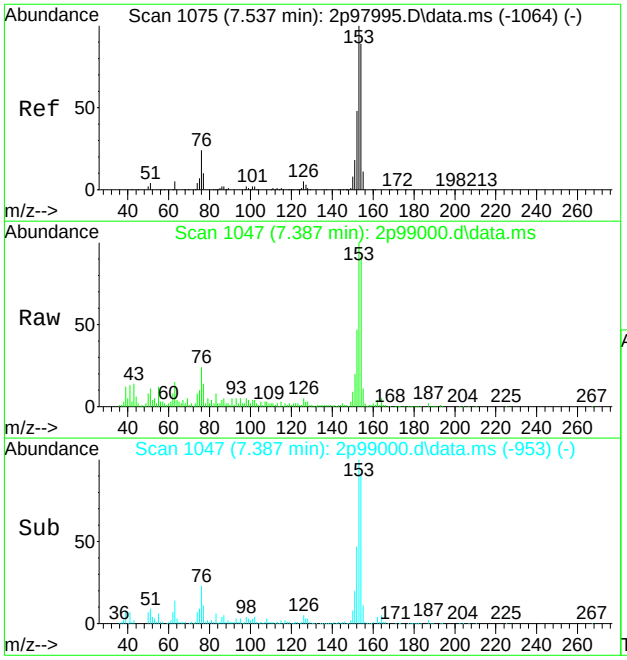


#56
Acenaphthylene
Concen: 1.51 ppm
RT: 7.157 min Scan# 1004
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:152 Resp: 51633

Ion	Ratio	Lower	Upper
152	100		
151	19.2	0.0	50.7
153	11.9	0.0	42.9

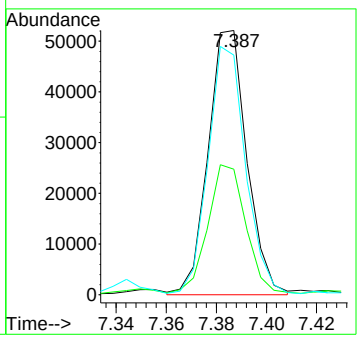


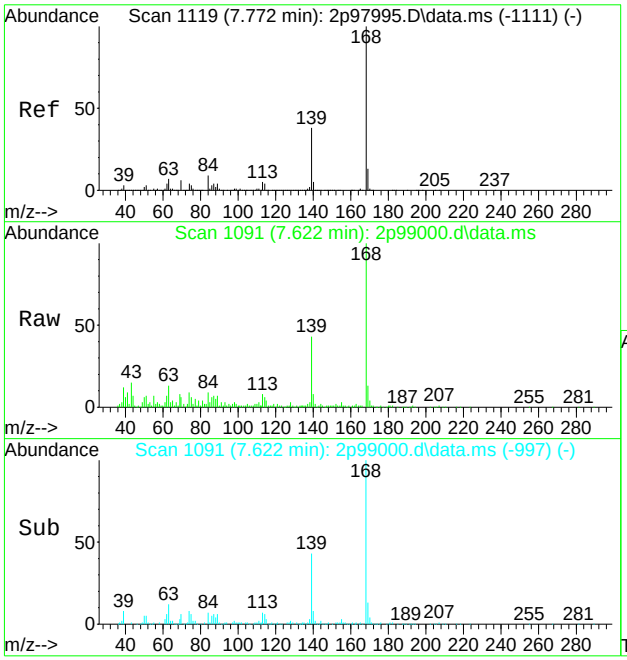


#59
Acenaphthene
Concen: 2.48 ppm m
RT: 7.387 min Scan# 1047
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:153 Resp: 55897

Ion	Ratio	Lower	Upper
153	100		
152	47.5	18.0	78.0
154	90.6	60.1	120.1

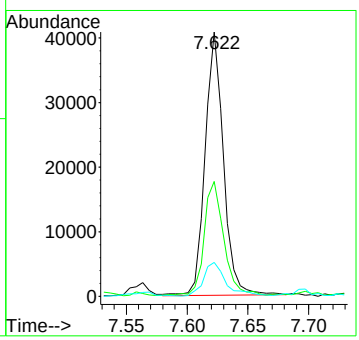


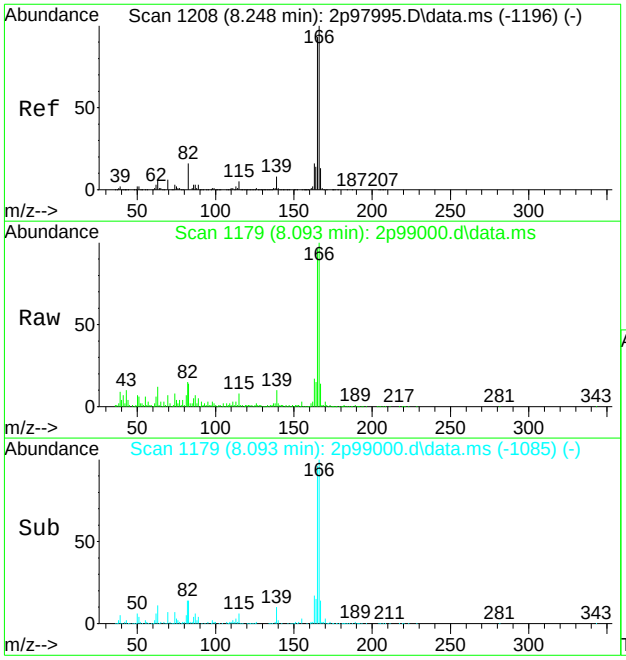


#62
Dibenzofuran
Concen: 1.42 ppm
RT: 7.622 min Scan# 1091
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:168 Resp: 42865

Ion	Ratio	Lower	Upper
168	100		
139	43.1	10.6	70.6
169	12.2	0.0	42.9

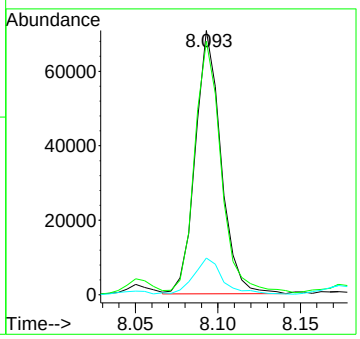


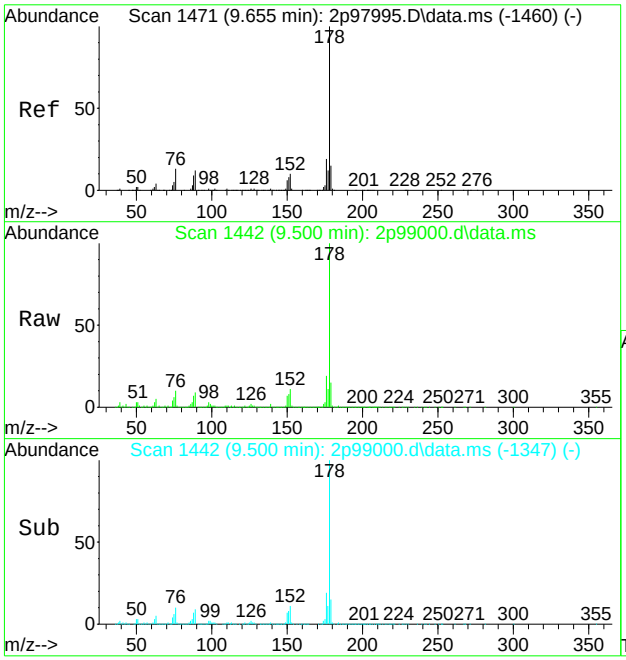


#66
Fluorene
Concen: 3.15 ppm
RT: 8.093 min Scan# 1179
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:166 Resp: 76595

Ion	Ratio	Lower	Upper
166	100		
165	95.0	65.3	125.3
167	13.5	0.0	43.3

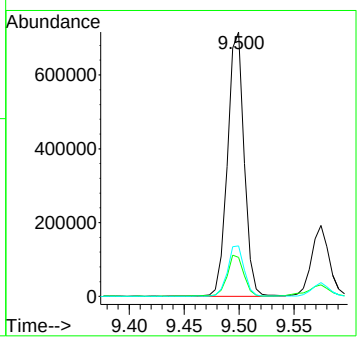


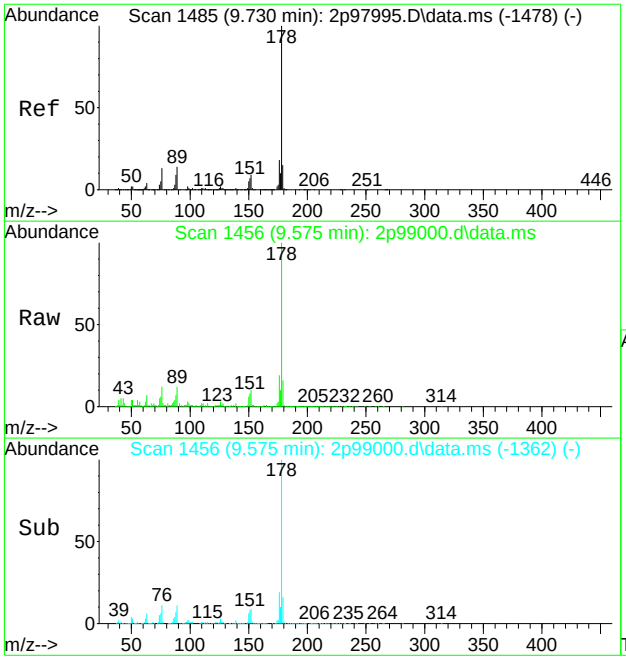


#77
Phenanthrene
Concen: 23.74 ppm
RT: 9.500 min Scan# 1442
Delta R.T. 0.006 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:178 Resp: 760757

Ion	Ratio	Lower	Upper
178	100		
179	14.6	0.0	44.9
176	19.0	0.0	49.2

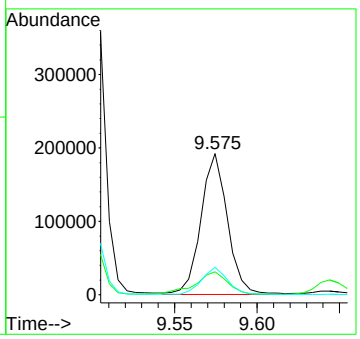


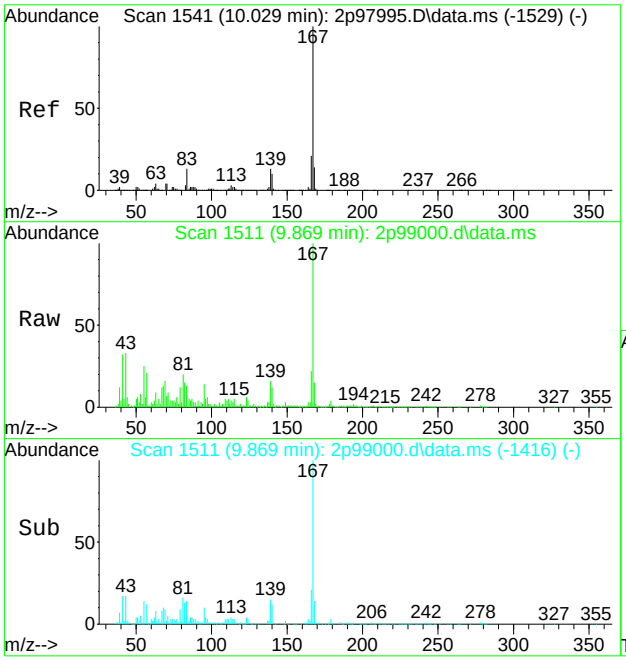


#78
Anthracene
Concen: 6.73 ppm
RT: 9.575 min Scan# 1456
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:178 Resp: 215957

Ion	Ratio	Lower	Upper
178	100		
179	15.7	0.0	44.8
176	19.2	0.0	49.1

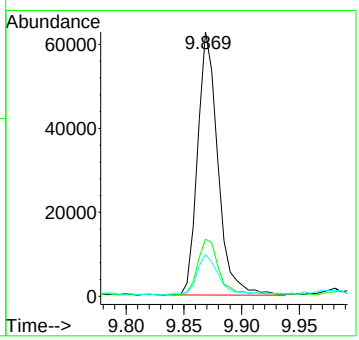


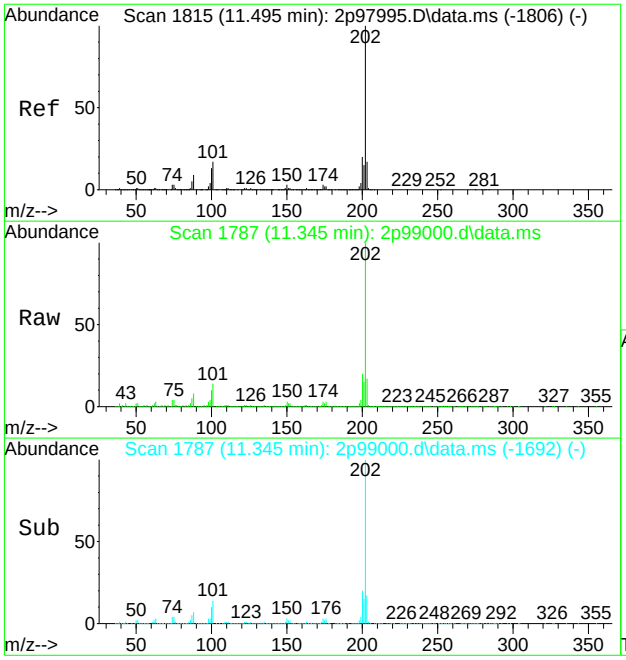


#79
Carbazole
Concen: 2.54 ppm
RT: 9.869 min Scan# 1511
Delta R.T. 0.006 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:167 Resp: 76520

Ion	Ratio	Lower	Upper
167	100		
166	21.1	0.0	51.3
139	15.2	0.0	44.4

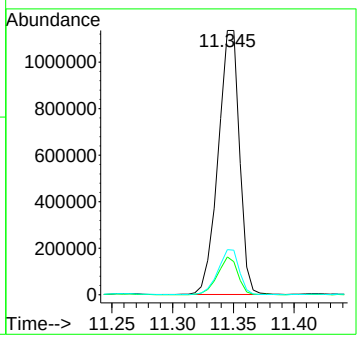


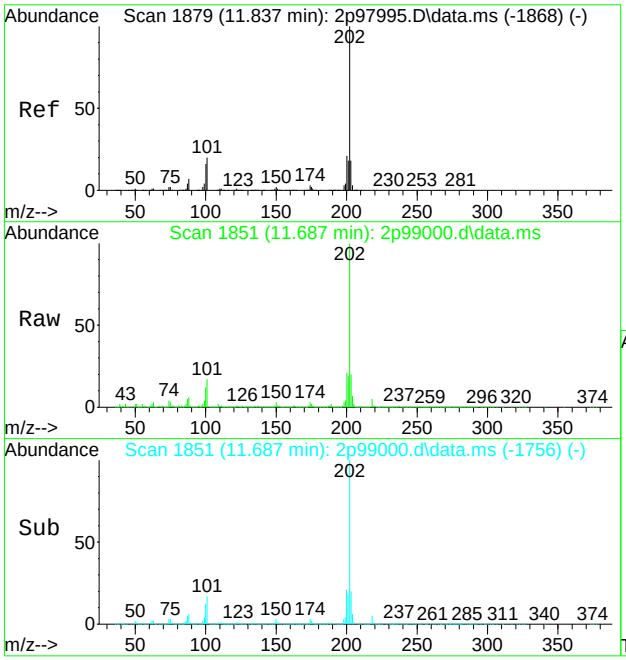


#81
Fluoranthene
Concen: 39.28 ppm
RT: 11.345 min Scan# 1787
Delta R.T. 0.006 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:202 Resp: 1381559

Ion	Ratio	Lower	Upper
202	100		
101	14.3	0.0	43.7
203	17.0	0.0	46.5

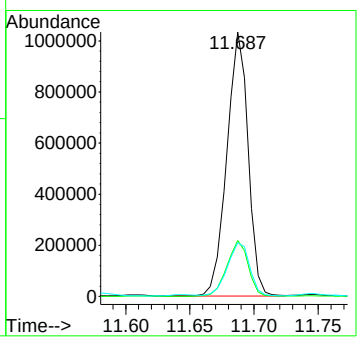


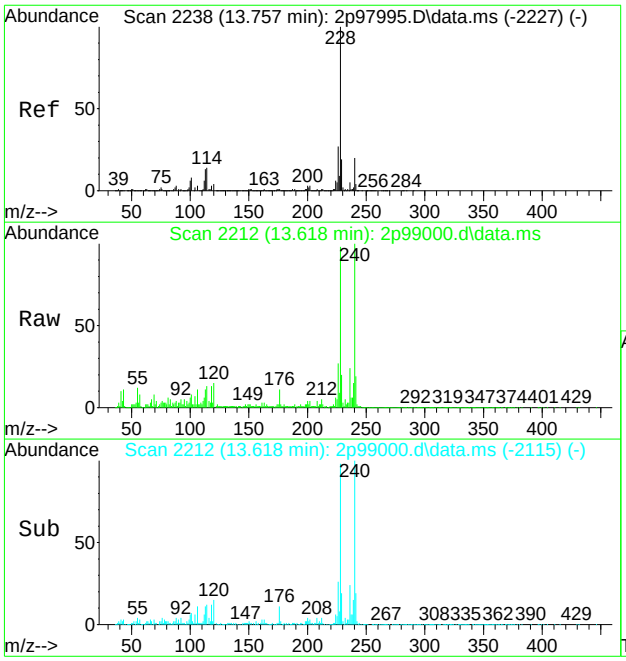


#84
Pyrene
Concen: 35.81 ppm
RT: 11.687 min Scan# 1851
Delta R.T. 0.006 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:202 Resp: 1197101

Ion	Ratio	Lower	Upper
202	100		
200	21.1	0.0	50.9
203	20.1	0.0	47.9

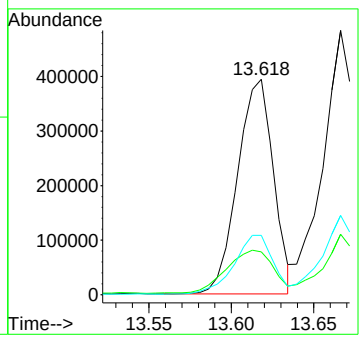


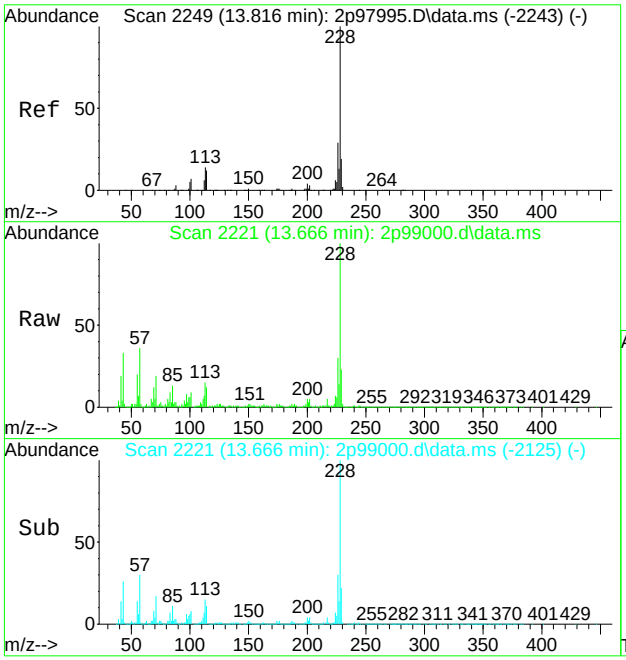


#87
Benzo[a]anthracene
Concen: 18.15 ppm
RT: 13.618 min Scan# 2212
Delta R.T. 0.016 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:228 Resp: 594358

Ion	Ratio	Lower	Upper
228	100		
229	18.8	0.0	50.0
226	27.4	0.0	56.8

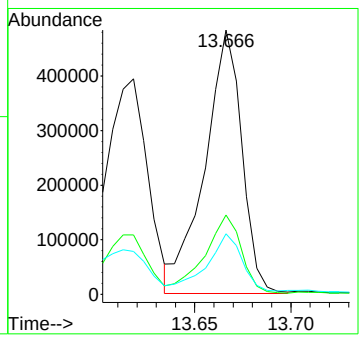


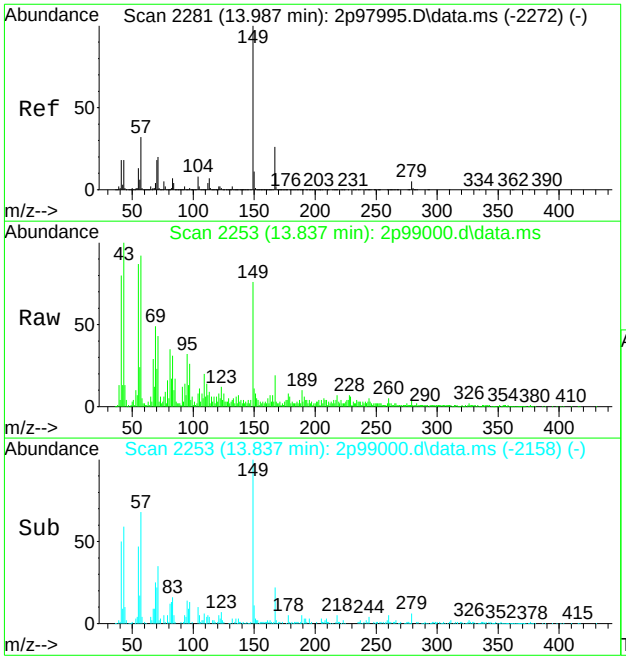


#89
Chrysene
Concen: 20.63 ppm
RT: 13.666 min Scan# 2221
Delta R.T. 0.011 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:228 Resp: 647144

Ion	Ratio	Lower	Upper
228	100		
226	30.0	0.3	60.3
229	21.9	0.0	49.6

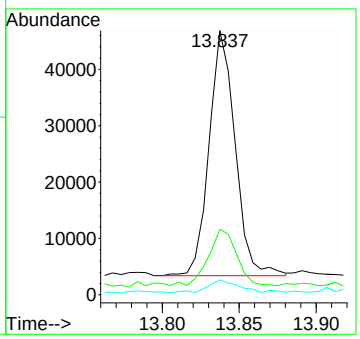


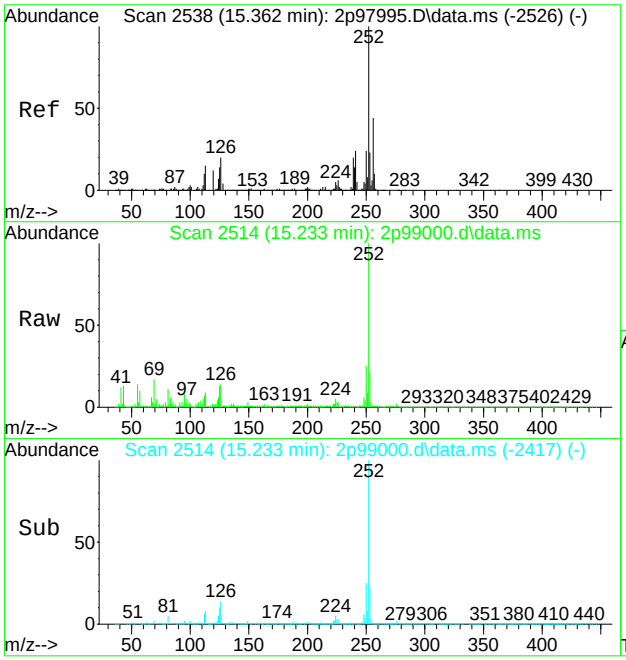


#90
bis(2-Ethylhexyl)phthalate
Concen: 2.34 ppm
RT: 13.837 min Scan# 2253
Delta R.T. 0.006 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:149 Resp: 51196

Ion	Ratio	Lower	Upper
149	100		
167	22.2	0.0	56.5
279	5.0	0.0	35.6

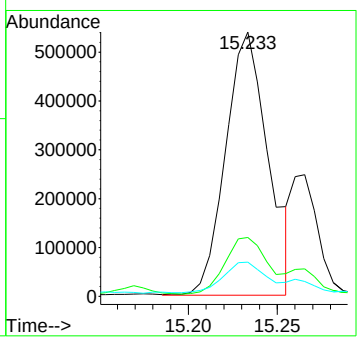


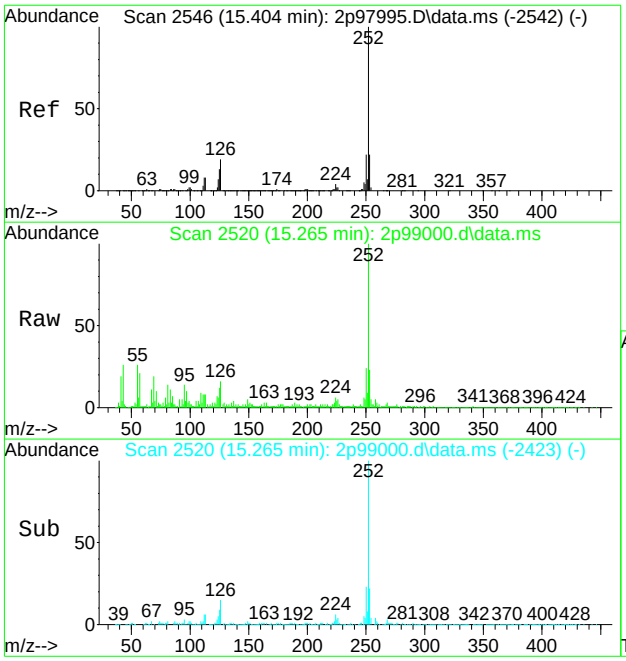


#93
Benzo[b]fluoranthene
Concen: 23.86 ppm
RT: 15.233 min Scan# 2514
Delta R.T. 0.016 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:252 Resp: 894896

Ion	Ratio	Lower	Upper
252	100		
253	20.9	0.0	51.4
125	11.5	0.0	39.2

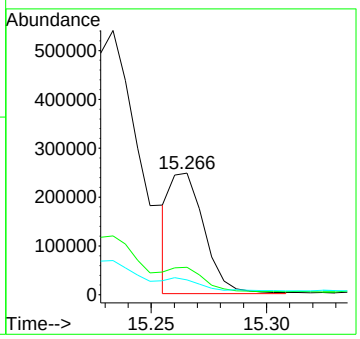


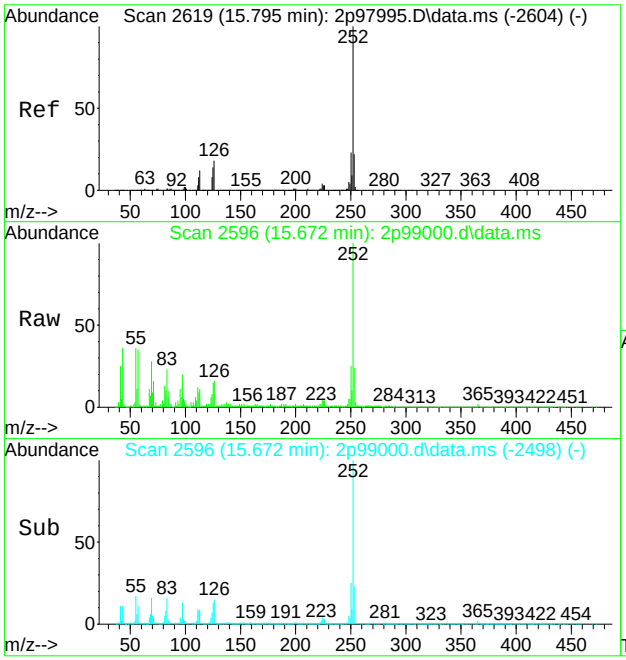


#94
Benzo[k]fluoranthene
Concen: 7.30 ppm
RT: 15.265 min Scan# 2520
Delta R.T. 0.016 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:252 Resp: 252480

Ion	Ratio	Lower	Upper
252	100		
253	19.4	0.0	51.6
125	7.8	0.0	40.9

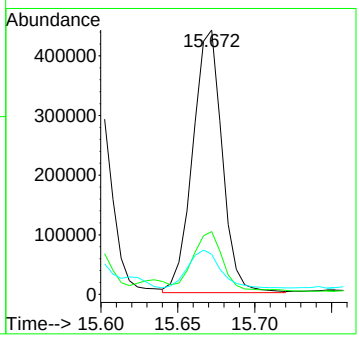


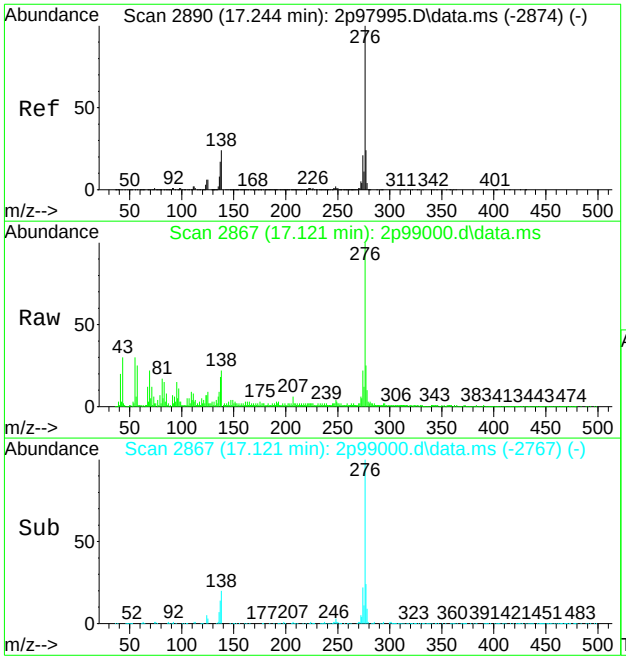


#95
Benzo[a]pyrene
Concen: 18.01 ppm
RT: 15.672 min Scan# 2596
Delta R.T. 0.022 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:252 Resp: 586479

Ion	Ratio	Lower	Upper
252	100		
253	20.8	0.0	51.7
125	13.0	0.0	41.0

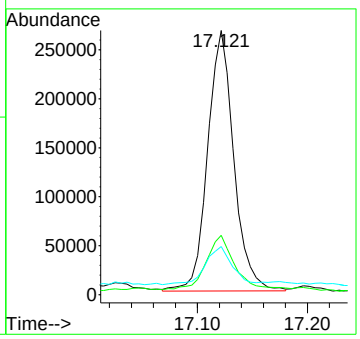


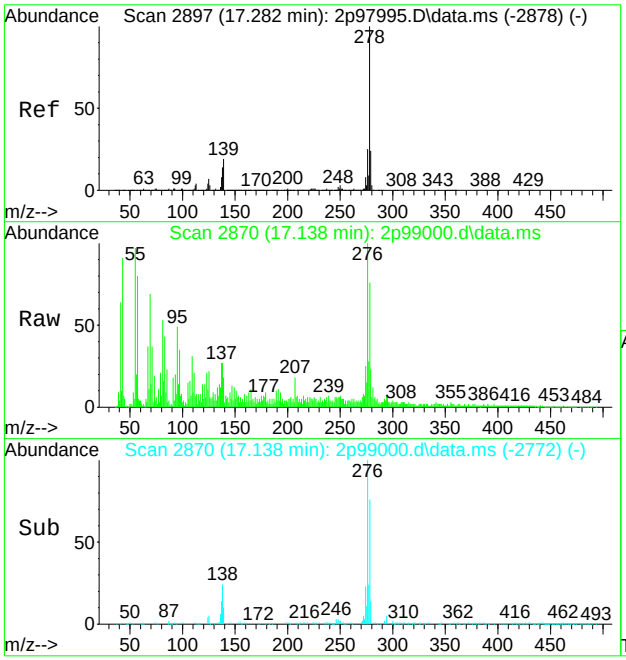


#96
Indeno[1,2,3-cd]pyrene
Concen: 12.64 ppm
RT: 17.121 min Scan# 2867
Delta R.T. 0.032 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:276 Resp: 441450

Ion	Ratio	Lower	Upper
276	100		
138	20.6	0.0	49.6
137	14.3	0.0	44.3

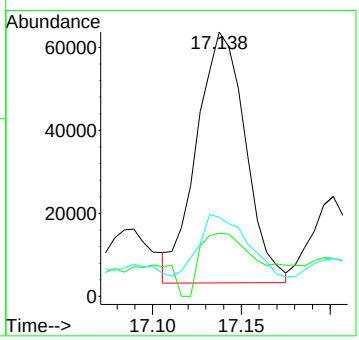


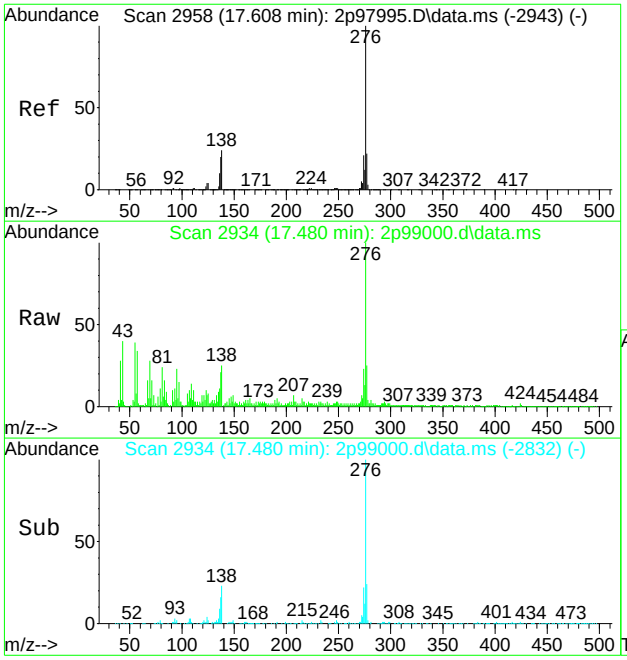


#98
Dibenz[a,h]anthracene
Concen: 3.19 ppm
RT: 17.138 min Scan# 2870
Delta R.T. 0.022 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:278 Resp: 115840

Ion	Ratio	Lower	Upper
278	100		
139	14.2	0.0	45.6
279	25.0	0.0	53.3

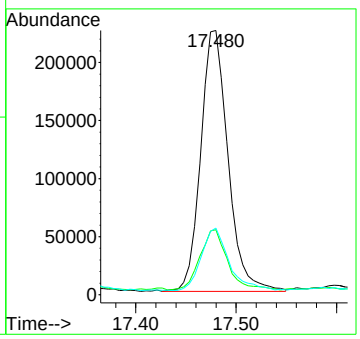




#100
Benzo[g,h,i]perylene
Concen: 12.36 ppm
RT: 17.480 min Scan# 2934
Delta R.T. 0.043 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:276 Resp: 425144

Ion	Ratio	Lower	Upper
276	100		
138	22.6	0.0	51.4
277	23.9	0.0	53.7



LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p99000.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.210	262	266	282	rVB	473593	509416	3.55%	0.300%
2	3.515	320	323	341	rBV	1399272	1332237	9.28%	0.785%
3	4.001	407	414	418	rBV	183387	235036	1.64%	0.138%
4	4.231	452	457	462	rBV	1215121	1281694	8.93%	0.755%
5	4.269	462	464	470	rVV	229406	248024	1.73%	0.146%
6	4.429	491	494	502	rBV	4276957	3015272	21.00%	1.776%
7	4.841	566	571	581	rBV	1691938	1416106	9.86%	0.834%
8	5.419	674	679	687	rVV	4126898	3532775	24.61%	2.081%
9	6.216	821	828	842	rBV3	109824	185384	1.29%	0.109%
10	6.526	880	886	897	rBV	2424787	2259470	15.74%	1.331%
11	7.077	979	989	999	rVB4	155746	302666	2.11%	0.178%
12	7.157	999	1004	1009	rBV2	185692	236355	1.65%	0.139%
13	7.344	1030	1039	1044	rBV	3849855	3727687	25.96%	2.196%
14	7.382	1044	1046	1052	rVB	246907	278807	1.94%	0.164%
15	8.093	1175	1179	1188	rVB2	292568	332158	2.31%	0.196%
16	8.451	1241	1246	1253	rBV	1066051	1285942	8.96%	0.758%
17	8.767	1300	1305	1314	rVB3	134688	238997	1.66%	0.141%
18	9.115	1358	1370	1374	rBV9	150663	328684	2.29%	0.194%
19	9.184	1379	1383	1393	rVB6	121513	286367	1.99%	0.169%
20	9.462	1429	1435	1438	rBV2	3160372	3678153	25.62%	2.167%
21	9.494	1438	1441	1447	rVB	1929498	2104125	14.66%	1.240%
22	9.575	1448	1456	1461	rBV	537313	638850	4.45%	0.376%
23	9.703	1476	1480	1484	rVB	489391	500838	3.49%	0.295%
24	9.740	1484	1487	1497	rVB	376010	462673	3.22%	0.273%
25	9.869	1506	1511	1517	rBV	294661	357879	2.49%	0.211%
26	9.992	1523	1534	1541	rBV4	204865	393487	2.74%	0.232%
27	10.254	1578	1583	1586	rBV	281064	335075	2.33%	0.197%
28	10.291	1586	1590	1596	rVB	319132	382300	2.66%	0.225%
29	10.404	1607	1611	1616	rBV3	367109	516843	3.60%	0.304%
30	10.452	1616	1620	1626	rVB	162690	226195	1.58%	0.133%
31	10.537	1626	1636	1640	rBV4	228255	480531	3.35%	0.283%
32	10.735	1668	1673	1677	rBV	185500	270863	1.89%	0.160%
33	10.773	1677	1680	1689	rVB2	218178	313663	2.18%	0.185%
34	11.013	1722	1725	1736	rVB3	105448	254121	1.77%	0.150%
35	11.131	1740	1747	1751	rBV2	160197	290269	2.02%	0.171%
36	11.217	1759	1763	1776	rVB8	213036	485637	3.38%	0.286%
37	11.345	1777	1787	1794	rBV	2961251	3771132	26.27%	2.222%
38	11.479	1804	1812	1823	rBV4	905312	1453486	10.12%	0.856%
39	11.687	1842	1851	1858	rVB	2941220	3673051	25.58%	2.164%
40	11.917	1889	1894	1906	rBV3	498475	992834	6.92%	0.585%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

41	12.014	1907	1912	1920	rVB	1961593	2494354	17.37%	1.469%
42	12.078	1920	1924	1929	rVB2	137093	226758	1.58%	0.134%
43	12.249	1942	1956	1960	rVV2	369590	732717	5.10%	0.432%
44	12.351	1970	1975	1979	rBV2	363770	473764	3.30%	0.279%
45	12.399	1980	1984	1987	rBV	209282	275602	1.92%	0.162%
46	12.538	2005	2010	2013	rBV2	227658	293563	2.04%	0.173%
47	12.580	2013	2018	2022	rVB2	360911	489980	3.41%	0.289%
48	12.720	2042	2044	2051	rVB5	152125	226905	1.58%	0.134%
49	12.864	2066	2071	2077	rVV2	372984	518092	3.61%	0.305%
50	12.939	2081	2085	2092	rVB6	141359	216456	1.51%	0.128%
51	13.067	2104	2109	2113	rVB3	167821	225445	1.57%	0.133%
52	13.131	2118	2121	2131	rVB2	169049	296341	2.06%	0.175%
53	13.212	2132	2136	2141	rBV	259921	399349	2.78%	0.235%
54	13.287	2148	2150	2156	rVB2	159428	240307	1.67%	0.142%
55	13.340	2156	2160	2165	rBV3	164065	246593	1.72%	0.145%
56	13.404	2166	2172	2179	rVB3	242490	418909	2.92%	0.247%
57	13.490	2184	2188	2193	rBV2	157483	248419	1.73%	0.146%
58	13.575	2200	2204	2206	rBV2	267420	356975	2.49%	0.210%
59	13.629	2206	2214	2218	rVV3	3389379	5818254	40.53%	3.427%
60	13.666	2218	2221	2230	rVB2	2239236	2907269	20.25%	1.713%
61	13.779	2238	2242	2249	rVB	279793	352890	2.46%	0.208%
62	13.837	2249	2253	2257	rBV3	298708	433234	3.02%	0.255%
63	14.035	2286	2290	2295	rBV2	175543	228349	1.59%	0.135%
64	14.174	2309	2316	2320	rBV3	231359	453853	3.16%	0.267%
65	14.265	2330	2333	2339	rVB2	230748	319335	2.22%	0.188%
66	14.677	2403	2410	2427	rBV2	1216298	4070994	28.36%	2.398%
67	15.132	2490	2495	2505	rBV4	514404	1137647	7.92%	0.670%
68	15.228	2507	2513	2518	rBV2	1764323	3201542	22.30%	1.886%
69	15.340	2529	2534	2537	rBV2	502886	682171	4.75%	0.402%
70	15.619	2577	2586	2591	rBV2	4771208	8012604	55.81%	4.720%
71	15.667	2591	2595	2605	rVV2	2183577	3861290	26.90%	2.275%
72	15.752	2605	2611	2615	rVV	2539424	3222697	22.45%	1.898%
73	15.982	2650	2654	2658	rVB6	210892	276016	1.92%	0.163%
74	16.057	2662	2668	2675	rVB3	451721	954698	6.65%	0.562%
75	16.121	2677	2680	2688	rVB8	200888	373231	2.60%	0.220%
76	16.260	2701	2706	2715	rBV2	771363	1325646	9.23%	0.781%
77	16.330	2715	2719	2724	rBV3	322337	500208	3.48%	0.295%
78	16.464	2738	2744	2746	rBV3	1176514	1716438	11.96%	1.011%
79	16.501	2746	2751	2757	rVV	4272232	6015640	41.90%	3.544%
80	16.560	2757	2762	2778	rVV2	1185053	2875664	20.03%	1.694%
81	16.667	2778	2782	2787	rBV	420079	665824	4.64%	0.392%
82	16.827	2809	2812	2823	rVB8	469967	880153	6.13%	0.518%
83	16.929	2825	2831	2836	rVB3	499426	905250	6.31%	0.533%
84	17.121	2862	2867	2871	rBV	606999	920768	6.41%	0.542%
85	17.170	2872	2876	2880	rVB	364965	482188	3.36%	0.284%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

86	17.303	2898	2901	2906	rVB7	260411	391750	2.73%	0.231%
87	17.357	2906	2911	2918	rVB3	653729	1216085	8.47%	0.716%
88	17.426	2919	2924	2929	rVB	552306	866815	6.04%	0.511%
89	17.480	2929	2934	2943	rBV	709850	1358500	9.46%	0.800%
90	17.688	2965	2973	2981	rBV3	4452095	11346850	79.03%	6.684%
91	17.854	2998	3004	3015	rVV5	870605	2317892	16.14%	1.365%
92	17.961	3016	3024	3031	rVV3	2453073	6610419	46.04%	3.894%
93	18.036	3032	3038	3049	rVB3	2636901	6071329	42.29%	3.577%
94	18.164	3057	3062	3067	rBV9	378438	871524	6.07%	0.513%
95	18.245	3068	3077	3089	rVV4	2751220	9747118	67.89%	5.742%
96	18.341	3090	3095	3107	rVB4	1245726	3516613	24.49%	2.072%
97	18.464	3109	3118	3126	rVB2	1605746	3826449	26.65%	2.254%
98	18.678	3151	3158	3167	rVB4	839039	2279605	15.88%	1.343%
99	18.774	3170	3176	3196	rVB4	446609	1387717	9.67%	0.817%
100	19.191	3241	3254	3267	rVB	5119523	14356789	100.00%	8.457%

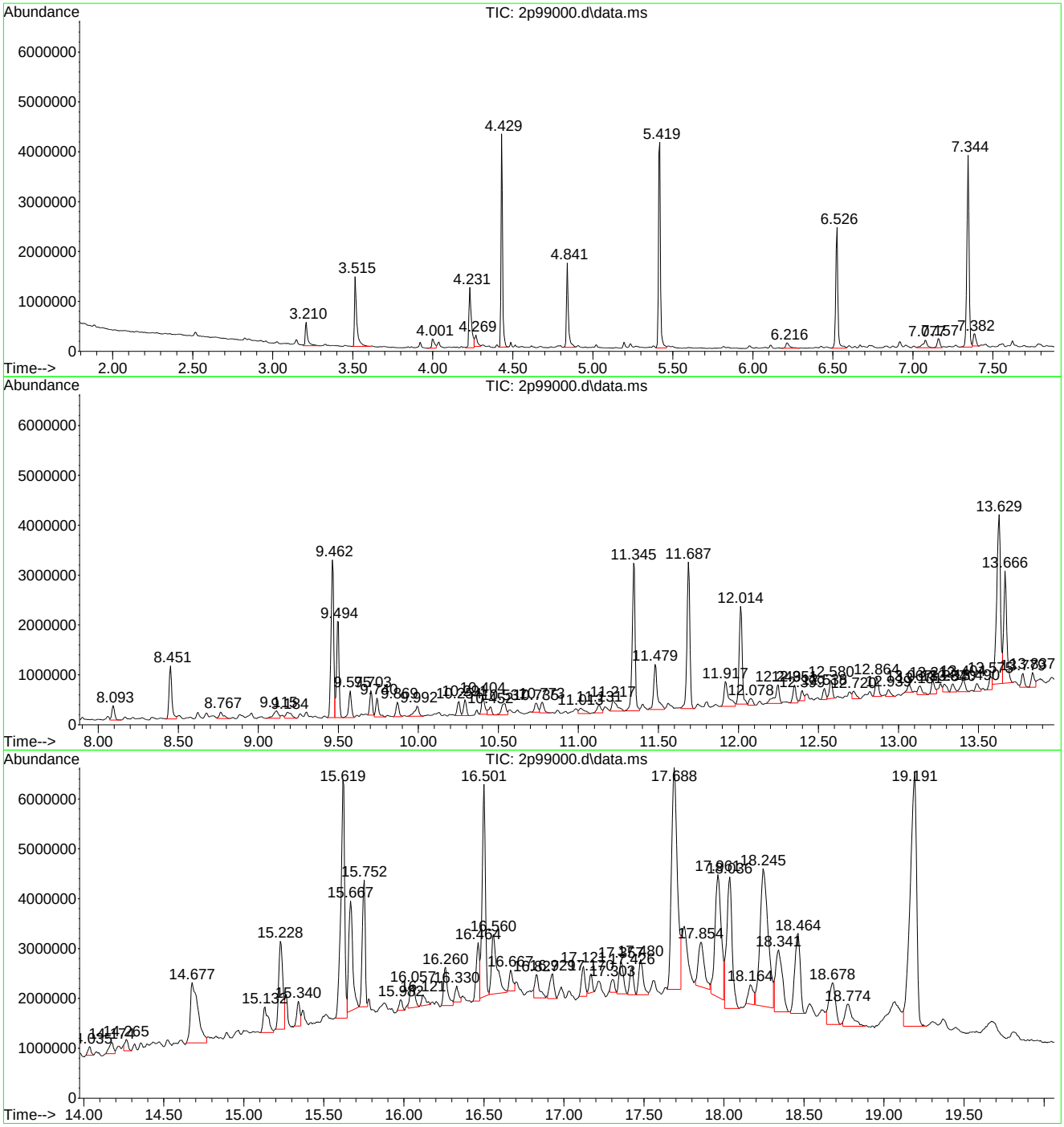
Sum of corrected areas: 169754919

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

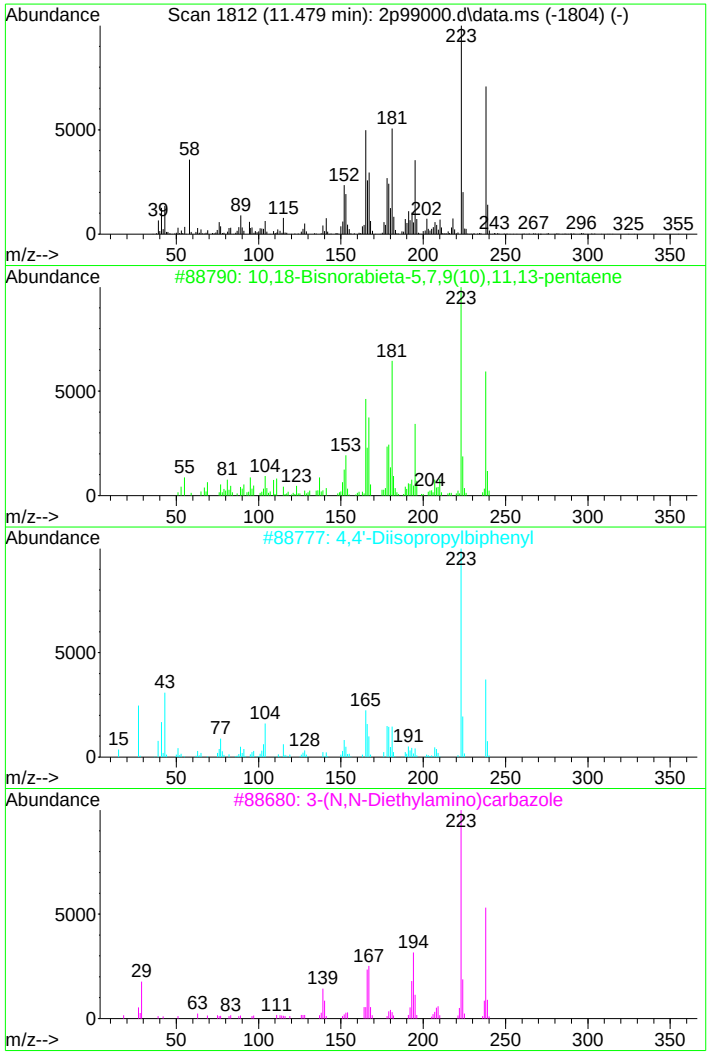
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

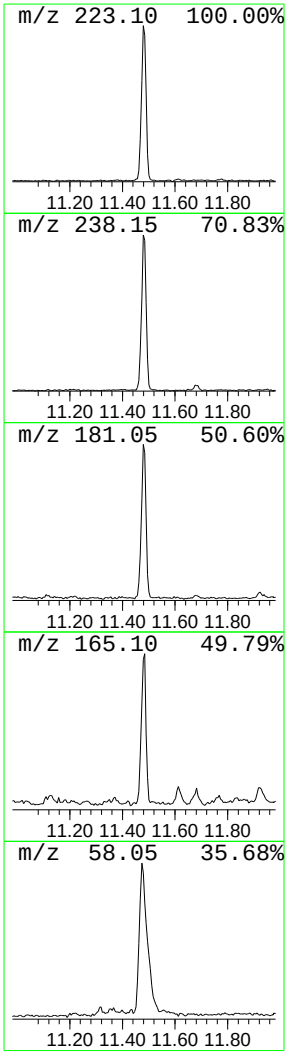
****

Peak Number 1 Bisnorabieta-pentaene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.479	15.81 ppm	1453490	Phenanthrene-d10b	9.462

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10,18-Bisnorabieta-5,7,9(10),11,...	238	C18H22	006566-19-4	99
2	4,4'-Diisopropylbiphenyl	238	C18H22	018970-30-4	55
3	3-(N,N-Diethylamino)carbazole	238	C16H18N2	054994-31-9	53
4	4,4'-Diisopropylbiphenyl	238	C18H22	018970-30-4	50
5	3,4'-Diisopropylbiphenyl	238	C18H22	061434-46-6	46





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

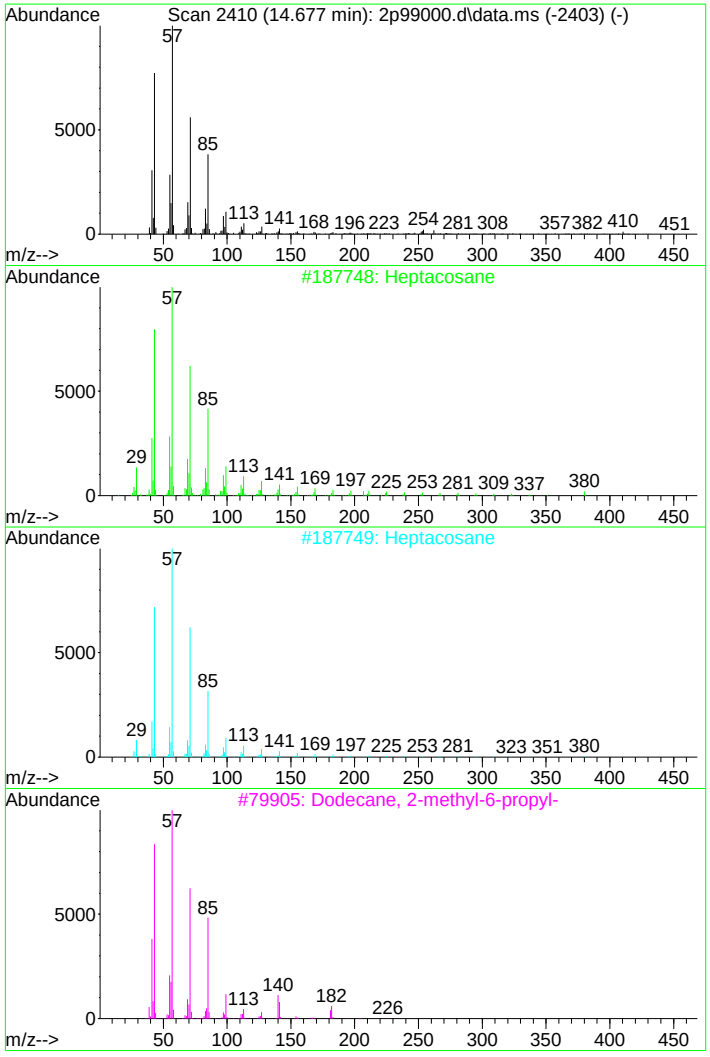
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

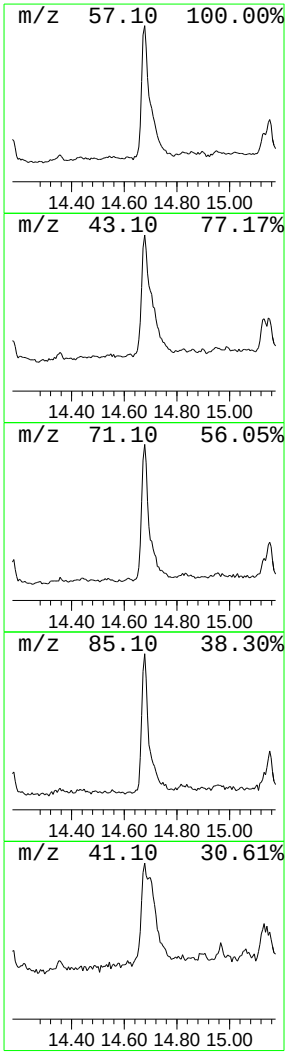
****

Peak Number 2 Alkane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.677	27.99 ppm	4070990	Chrysene-d12b	13.629

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	95
2	Heptacosane	380	C27H56	000593-49-7	93
3	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	91
4	Docosane, 11-butyl-	366	C26H54	013475-76-8	90
5	Octadecane	254	C18H38	000593-45-3	90





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

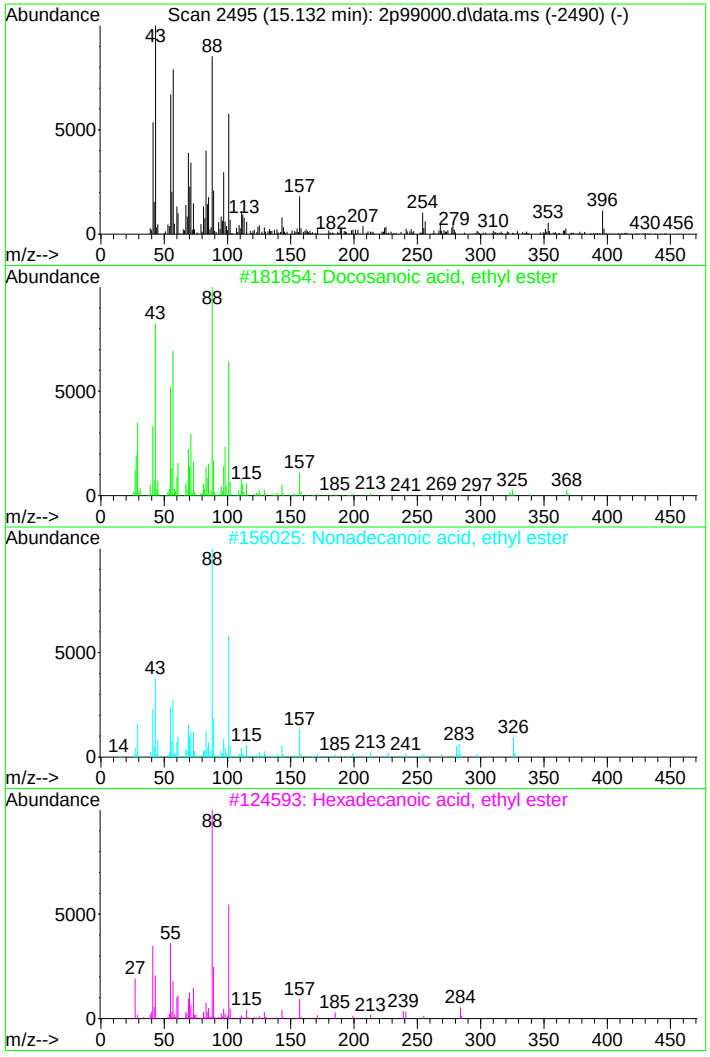
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

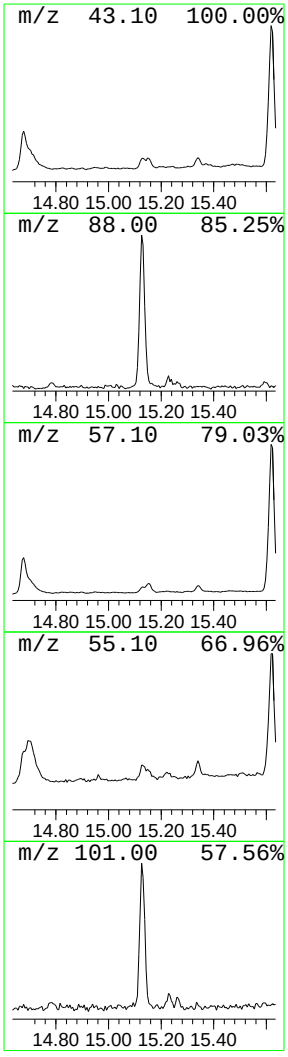
****

Peak Number 3 Unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.132	14.12 ppm	1137650	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosanoic acid, ethyl ester	368	C24H48O2	005908-87-2	52
2	Nonadecanoic acid, ethyl ester	326	C21H42O2	018281-04-4	50
3	Hexadecanoic acid, ethyl ester	284	C18H36O2	000628-97-7	47
4	Octadecanoic acid, ethyl ester	312	C20H40O2	000111-61-5	46
5	Tetradecanoic acid, 2-methyl-, m...	256	C16H32O2	055554-09-1	46





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

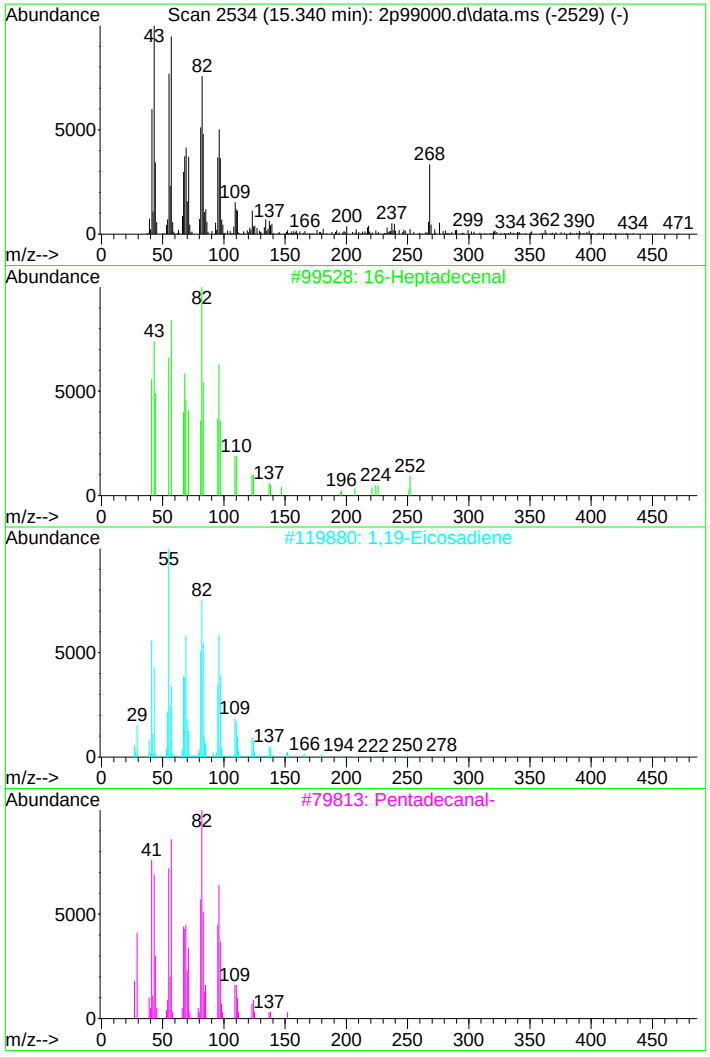
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

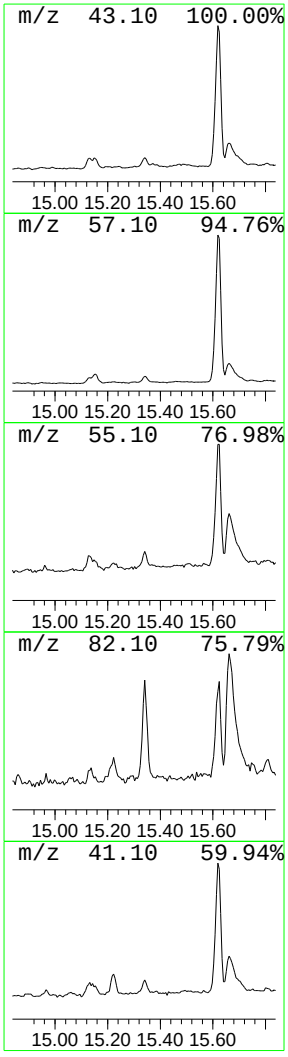
****

Peak Number 4 Unknown Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.340	8.47 ppm	682171	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	16-Heptadecenal	252	C17H32O	1000144-57-9	87
2	1,19-Eicosadiene	278	C20H38	014811-95-1	87
3	Pentadecanal-	226	C15H30O	002765-11-9	87
4	11-Tetradecyn-1-ol acetate	252	C16H28O2	033925-72-3	86
5	1,16-Hexadecanediol	258	C16H34O2	007735-42-4	83





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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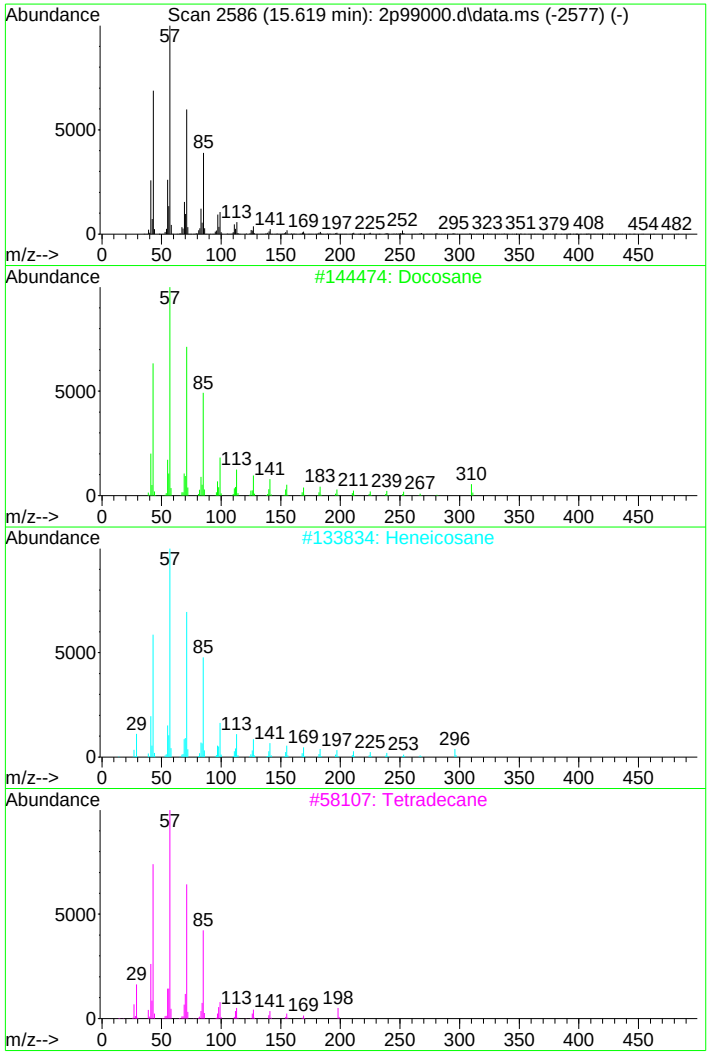
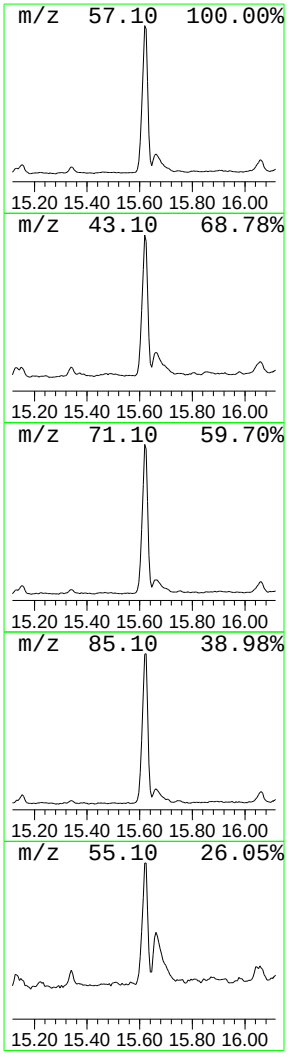
Peak Number 5 Alkane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.618	99.45 ppm	8012600	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosane	310	C22H46	000629-97-0	95
2	Heneicosane	296	C21H44	000629-94-7	94
3	Tetradecane	198	C14H30	000629-59-4	94
4	Nonadecane	268	C19H40	000629-92-5	93
5	Hentriacontane	437	C31H64	000630-04-6	93





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Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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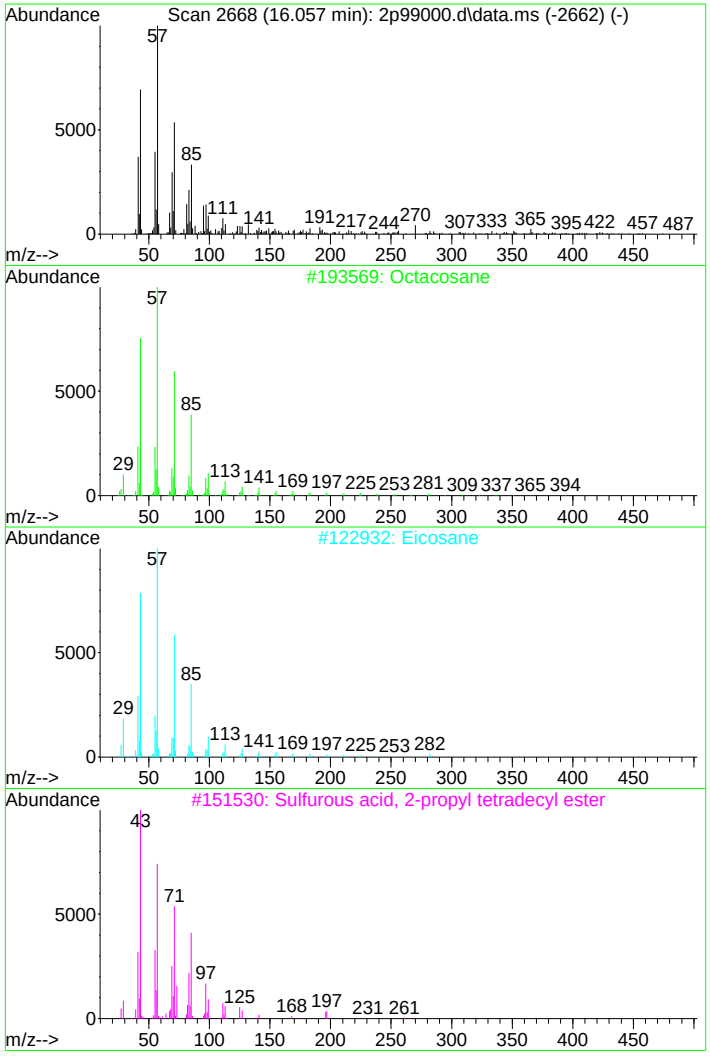
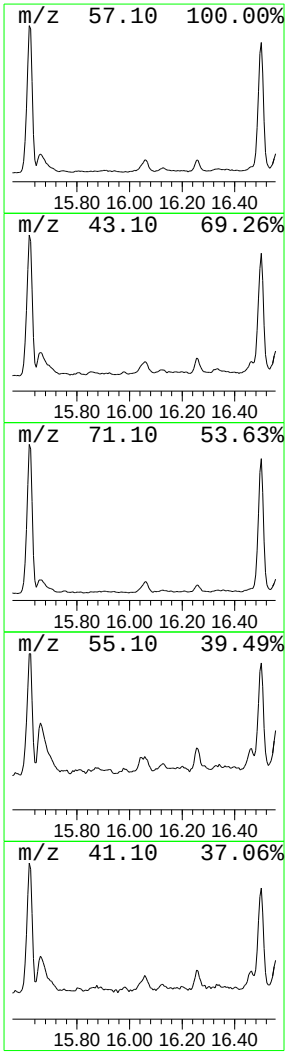
Peak Number 6 Unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.057	11.85 ppm	954698	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	78
2	Eicosane	282	C20H42	000112-95-8	78
3	Sulfurous acid, 2-propyl tetrade...	320	C17H36O3S	1000309-12-5	68
4	Sulfurous acid, 2-propyl tridecy...	306	C16H34O3S	1000309-12-4	68
5	Dodecane	170	C12H26	000112-40-3	60





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Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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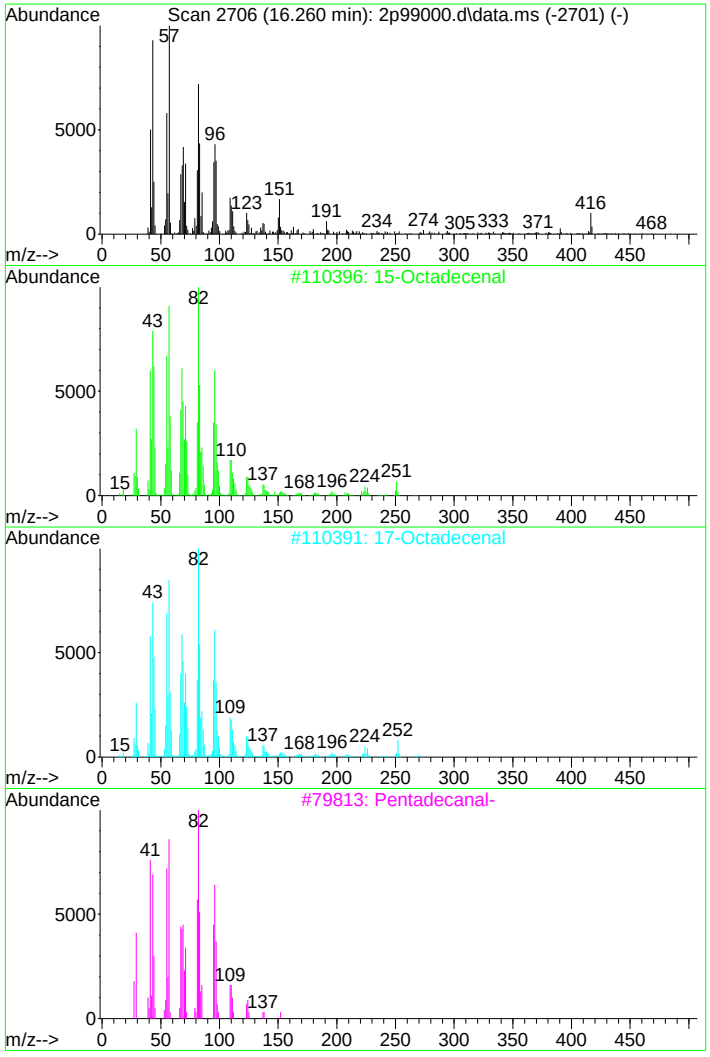
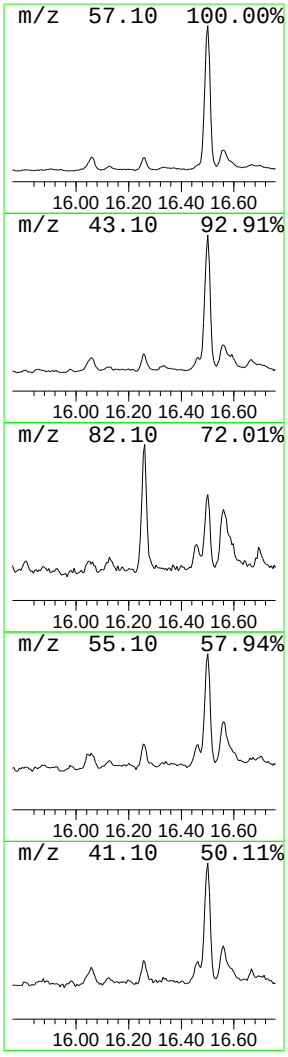
Peak Number 7 Unknown alcohols Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.260	16.45 ppm	1325650	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	15-Octadecenal	266	C18H34O	056554-93-9	83
2	17-Octadecenal	266	C18H34O	056554-86-0	83
3	Pentadecanal-	226	C15H30O	002765-11-9	74
4	1,19-Eicosadiene	278	C20H38	014811-95-1	72
5	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	64





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ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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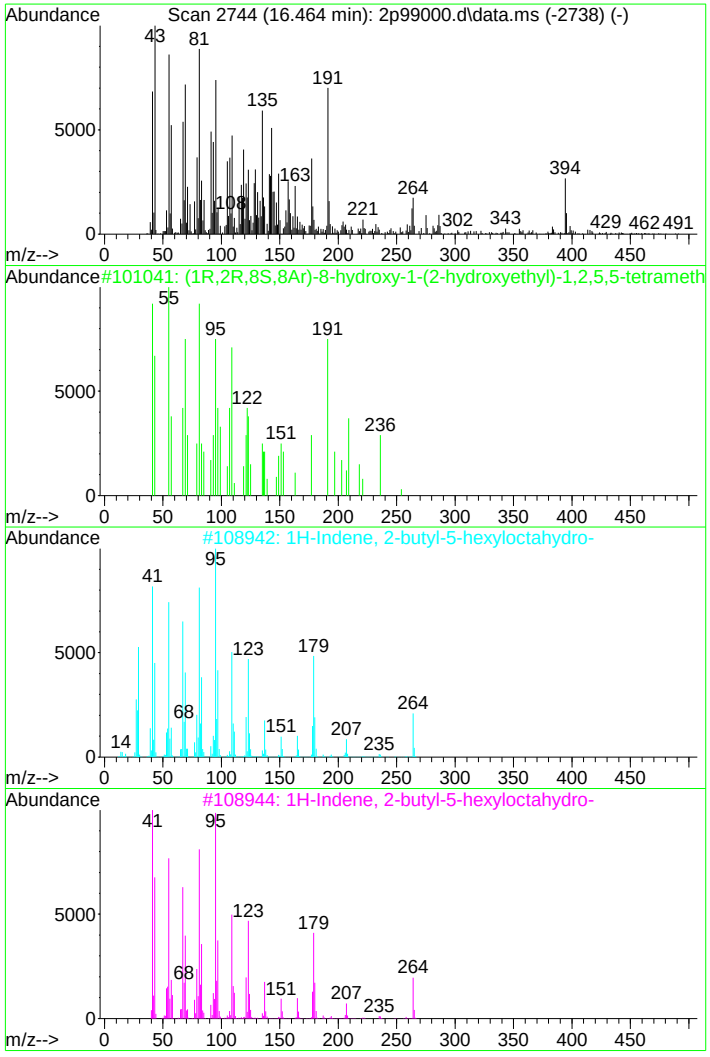
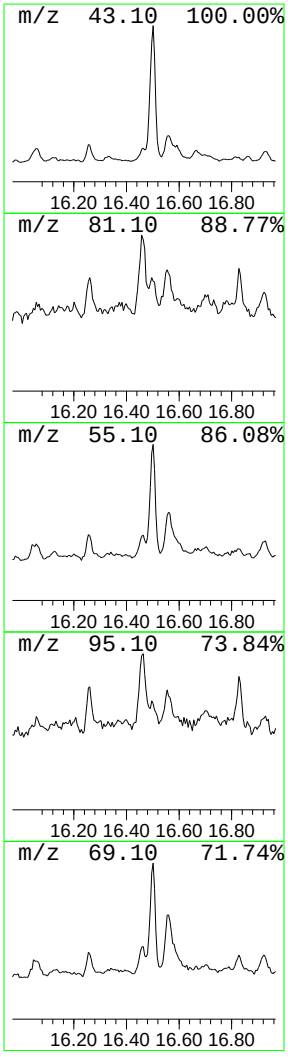
Peak Number 8 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.464	21.30 ppm	1716440	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1R,2R,8S,8Ar)-8-hydroxy-1-(2-hy...	254	C16H30O2	1000298-98-6	70
2	1H-Indene, 2-butyl-5-hexyloctahy...	264	C19H36	055044-33-2	43
3	1H-Indene, 2-butyl-5-hexyloctahy...	264	C19H36	055044-33-2	41
4	28-Nor-17.alpha.(H)-hopane	398	C29H50	053584-60-4	38
5	(1R,2S,8R,8Ar)-8-acetoxy-1-(2-hy...	296	C18H32O3	1000298-98-4	35





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ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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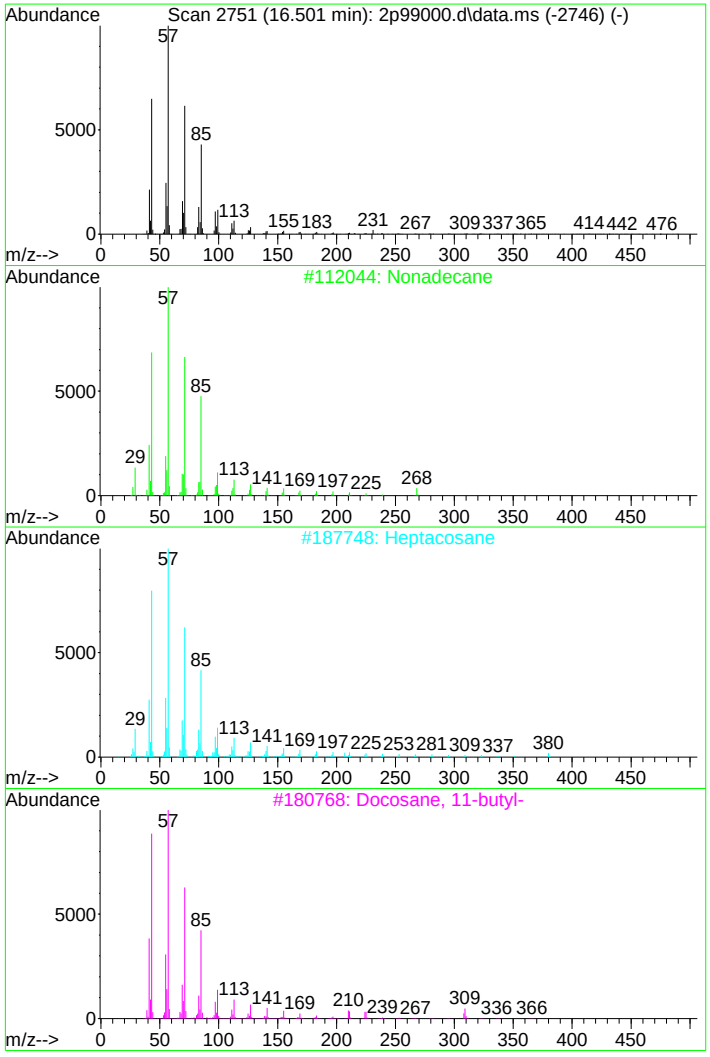
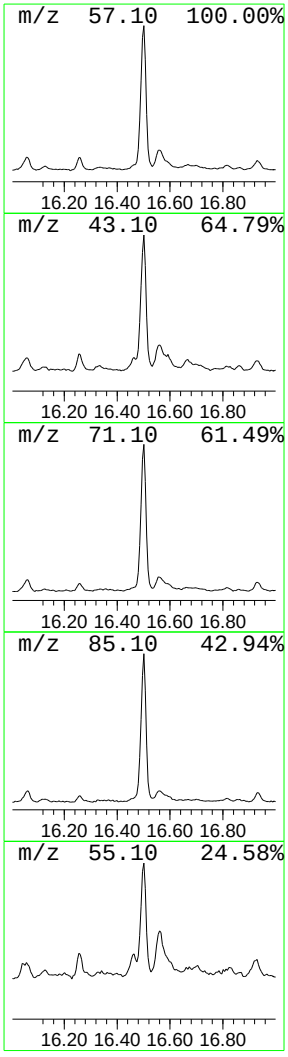
Peak Number 9 Alkane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.501	74.67 ppm	6015640	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	95
2	Heptacosane	380	C27H56	000593-49-7	91
3	Docosane, 11-butyl-	366	C26H54	013475-76-8	90
4	Pentacosane	352	C25H52	000629-99-2	87
5	10-Methylnonadecane	282	C20H42	056862-62-5	86





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ALS Vial : 20 Sample Multiplier: 1

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Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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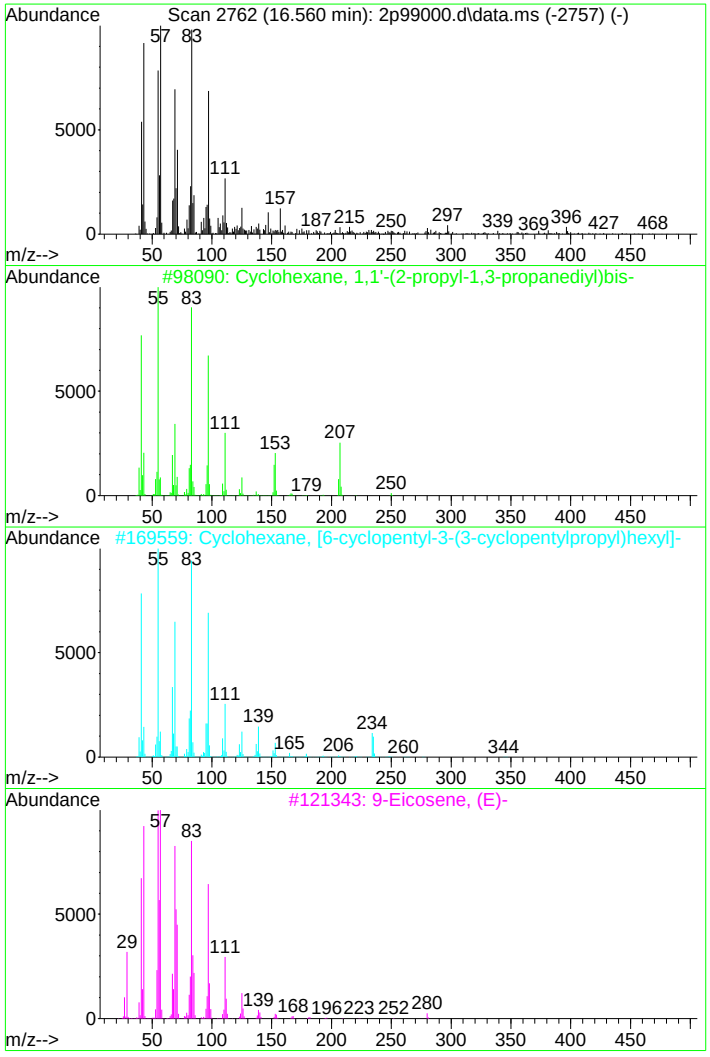
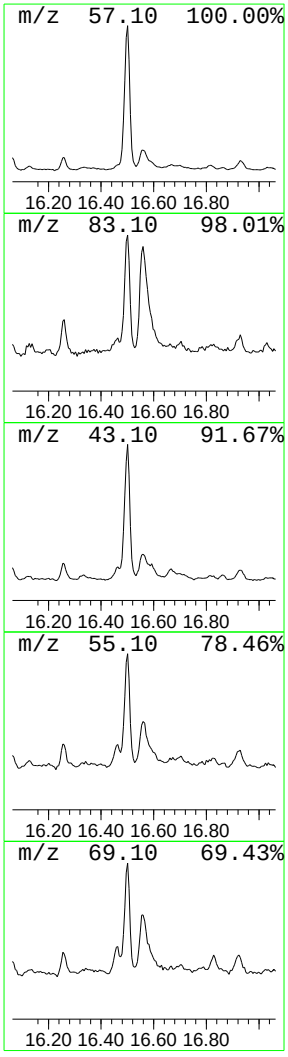
Peak Number 10 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.560	35.69 ppm	2875660	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1'-(2-propyl-1,3-...	250	C18H34	055030-21-2	86
2	Cyclohexane, [6-cyclopentyl-3-(3...	346	C25H46	055401-72-4	86
3	9-Eicosene, (E)-	280	C20H40	074685-29-3	83
4	Cyclooctadecane, ethyl-	280	C20H40	1000151-22-5	78
5	Octadecane, 1-(ethenyloxy)-	296	C20H40O	000930-02-9	66





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ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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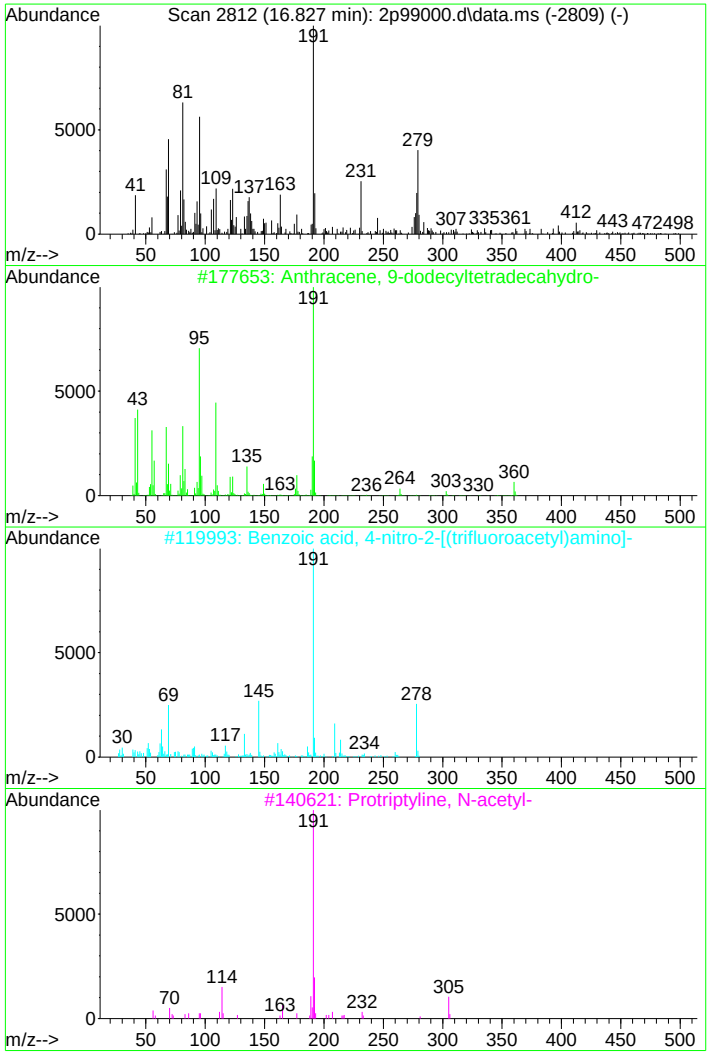
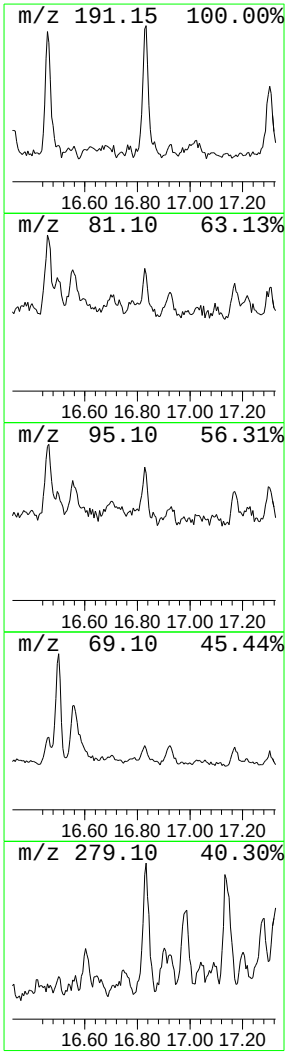
Peak Number 11 Unknown Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.827	10.92 ppm	880153	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-dodecyltetradecahy...	360	C26H48	055401-75-7	37
2	Benzoic acid, 4-nitro-2-[(triflu...	278	C9H5F3N2O5	091533-09-4	30
3	Protriptyline, N-acetyl-	305	C21H23NO	023047-28-1	22
4	4(1H)-Pteridinone, 2-amino-6,7-d...	191	C8H9N5O	000611-55-2	22
5	5H-Benzo[def]carbazole	191	C14H9N	000203-65-6	22





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Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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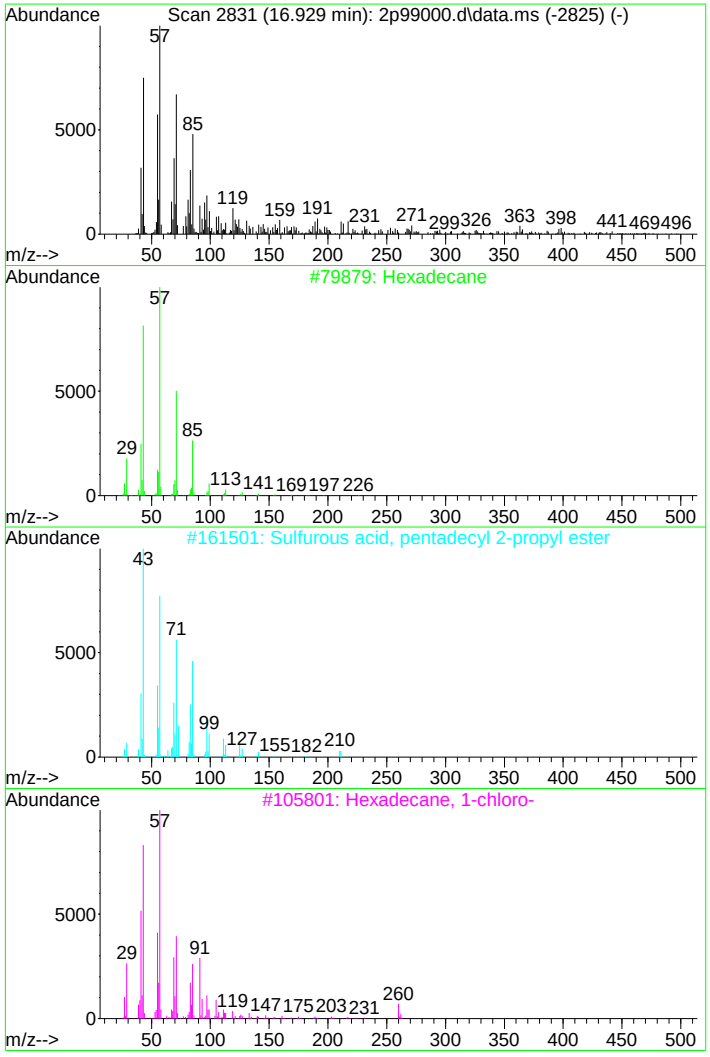
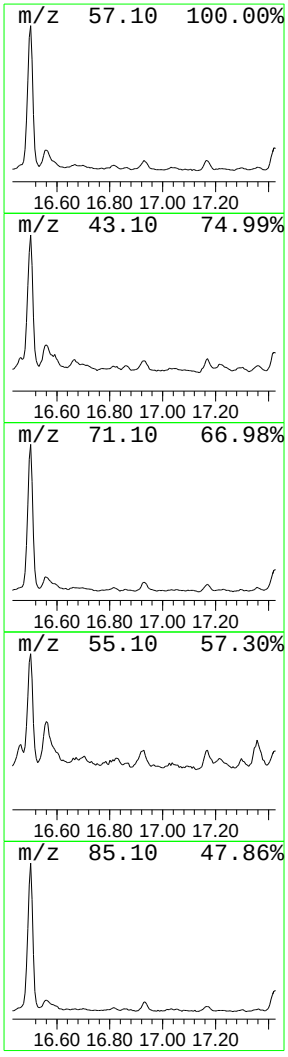
Peak Number 12 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.929	11.24 ppm	905250	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	83
2	Sulfurous acid, pentadecyl 2-pro...	334	C18H38O3S	1000309-12-6	72
3	Hexadecane, 1-chloro-	260	C16H33Cl	004860-03-1	72
4	Docosane, 1,22-dibromo-	466	C22H44Br2	034540-49-3	70
5	Tridecane, 6-propyl-	226	C16H34	055045-10-8	60





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Sample : jd18939-2
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ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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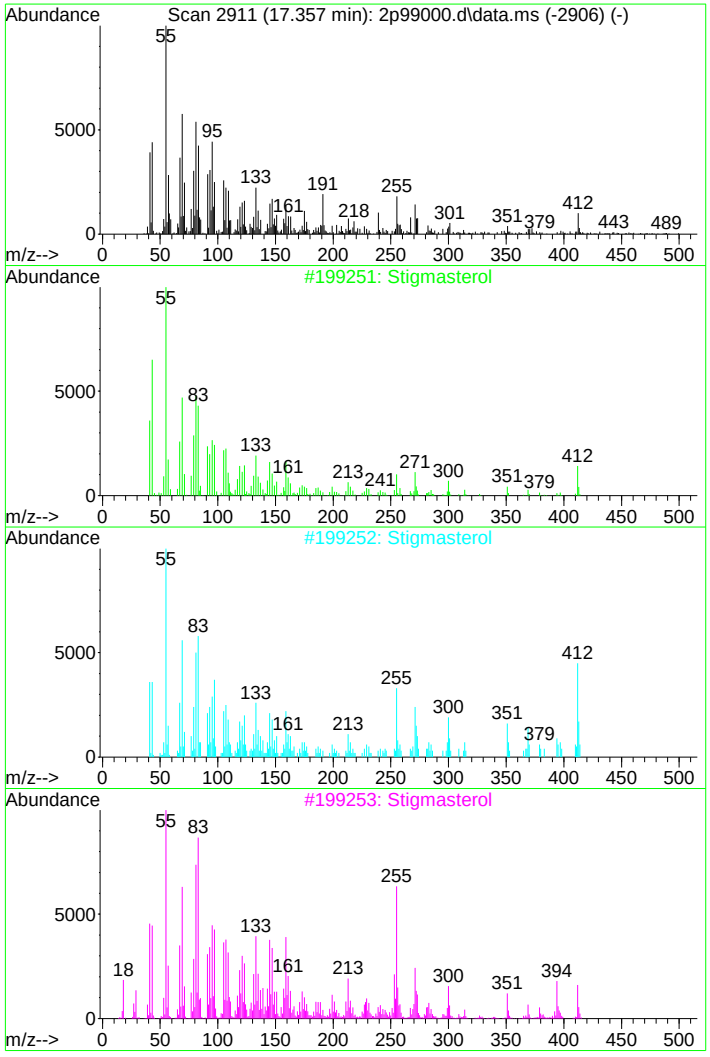
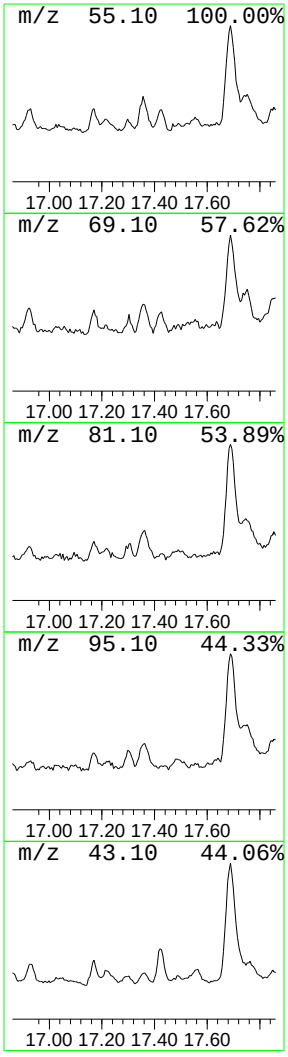
Peak Number 13 Stigmasterol Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.357	15.09 ppm	1216090	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmasterol	412	C29H48O	000083-48-7	93
2	Stigmasterol	412	C29H48O	000083-48-7	83
3	Stigmasterol	412	C29H48O	000083-48-7	64
4	Cholesta-22,24-dien-5-ol, 4,4-di...	412	C29H48O	1000128-66-1	52
5	Ergost-25-ene-3,5,6,12-tetrol, (...	448	C28H48O4	056052-97-2	32





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Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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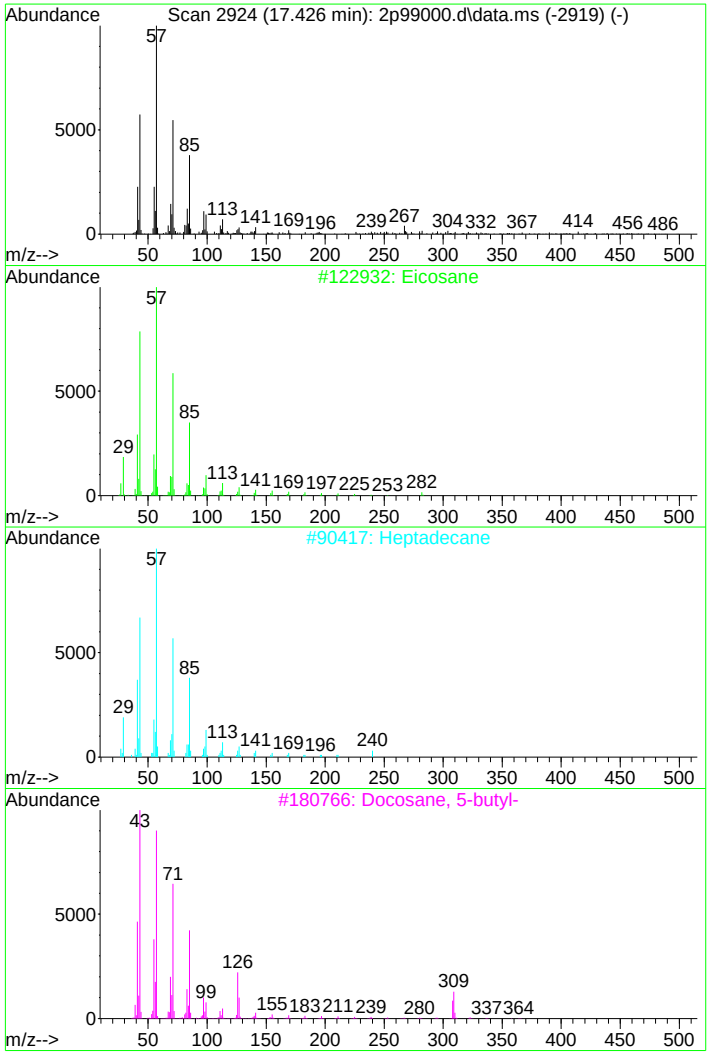
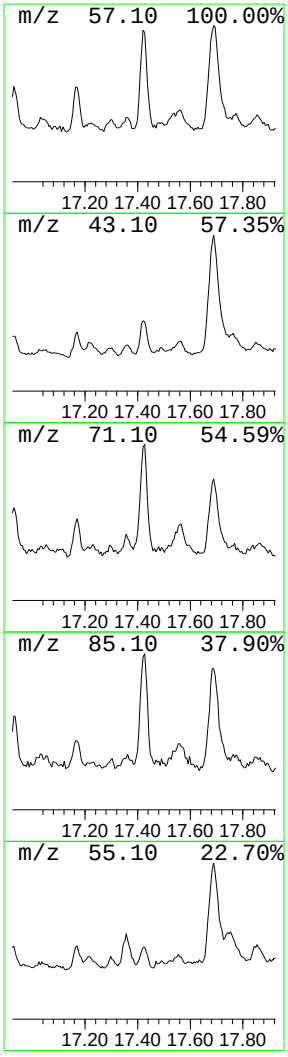
Peak Number 14 Alkane Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.426	10.76 ppm	866815	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	90
2	Heptadecane	240	C17H36	000629-78-7	90
3	Docosane, 5-butyl-	366	C26H54	055282-16-1	90
4	Octadecane, 5,14-dibutyl-	366	C26H54	055282-13-8	83
5	Tetratetracontane	619	C44H90	007098-22-8	83





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ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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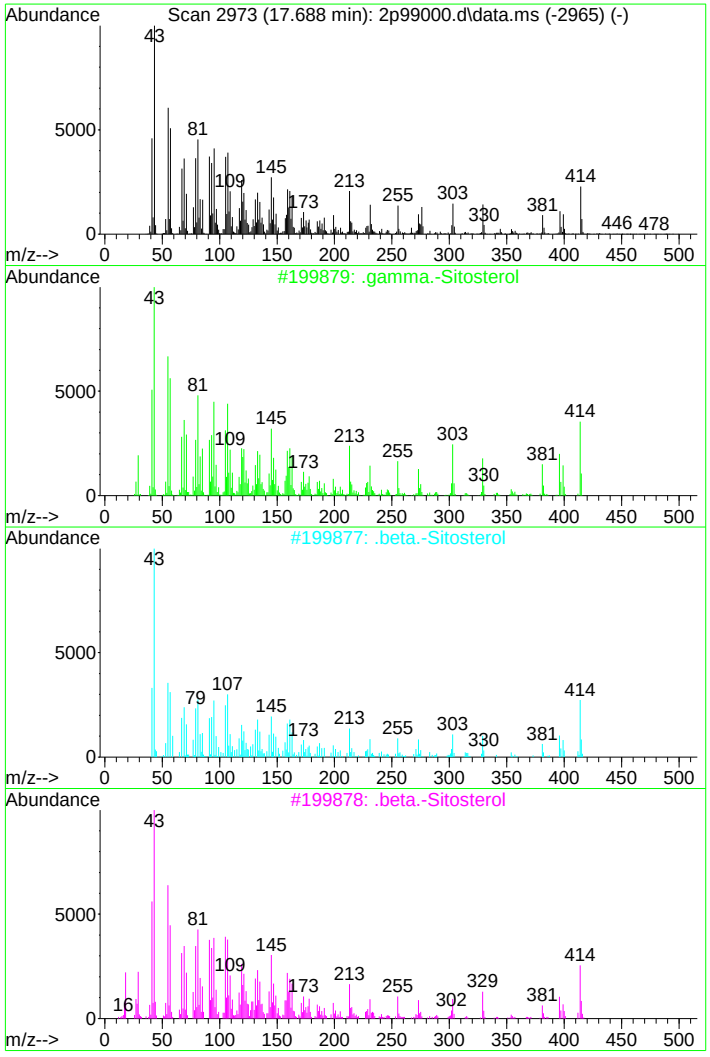
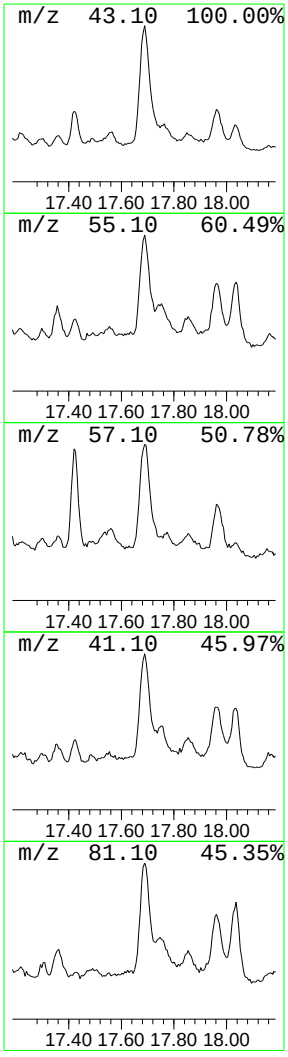
Peak Number 15 Sitosterol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.688	140.84 ppm	11346900	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
4	.gamma.-Sitosterol	414	C29H50O	000083-47-6	94
5	17-(1,5-Dimethylhexyl)-10,13-dim...	414	C29H50O	1000210-86-9	86





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ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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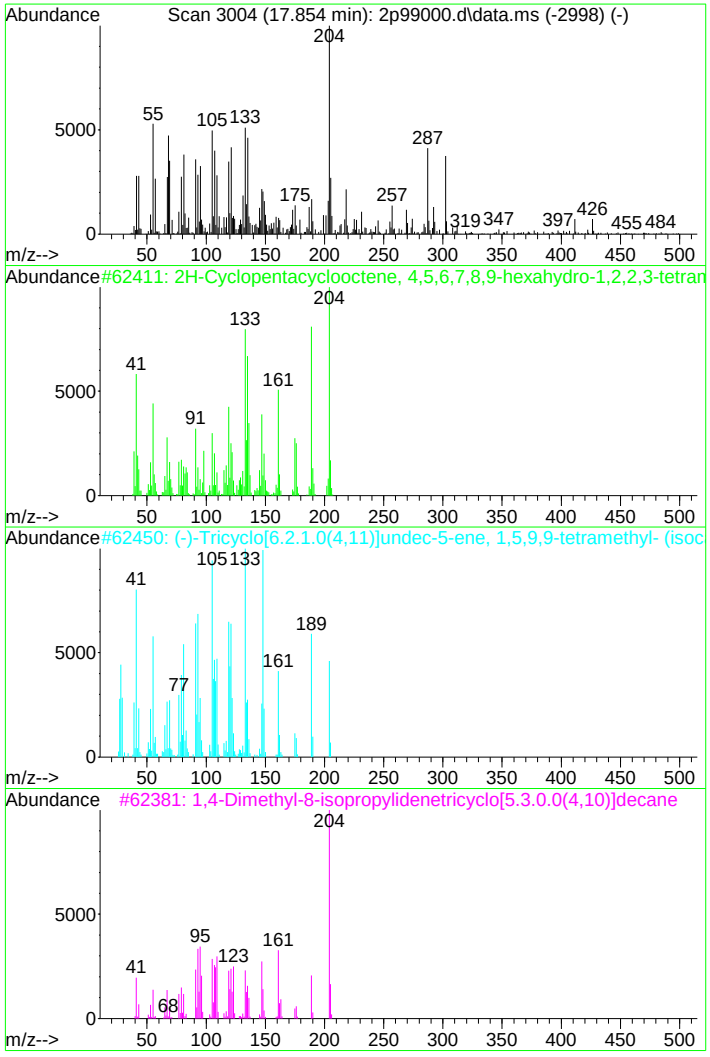
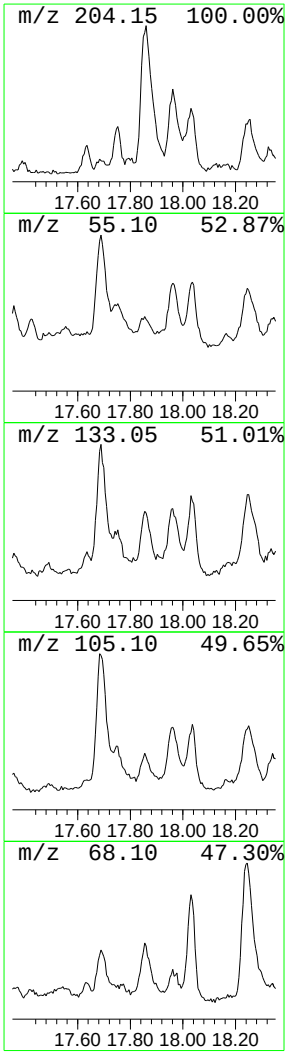
Peak Number 16 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.854	28.77 ppm	2317890	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2H-Cyclopentacyclooctene, 4,5,6,...	204	C15H24	1000221-85-8	53
2	(-)-Tricyclo[6.2.1.0(4,11)]undec...	204	C15H24	1000154-06-7	43
3	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1000140-07-7	30
4	1,4-Naphthalenedione, 5,8-dihydr...	204	C11H8O4	014554-09-7	25
5	.beta.-D-Glucopyranoside, methyl...	482	C19H46O6Si4	002296-40-4	16





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

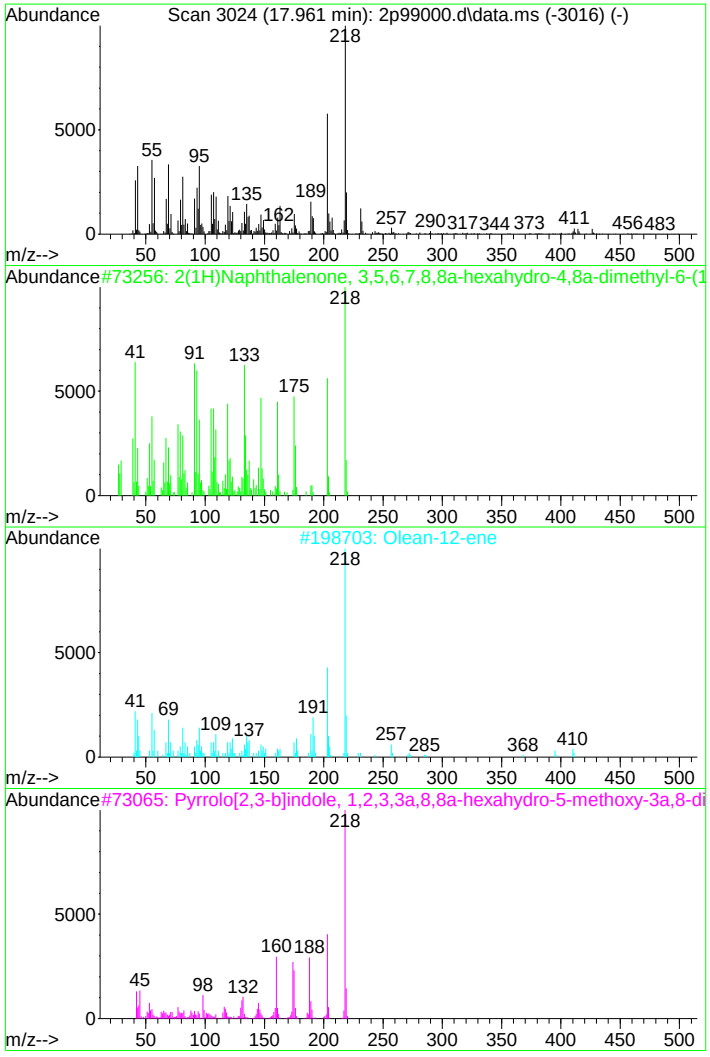
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

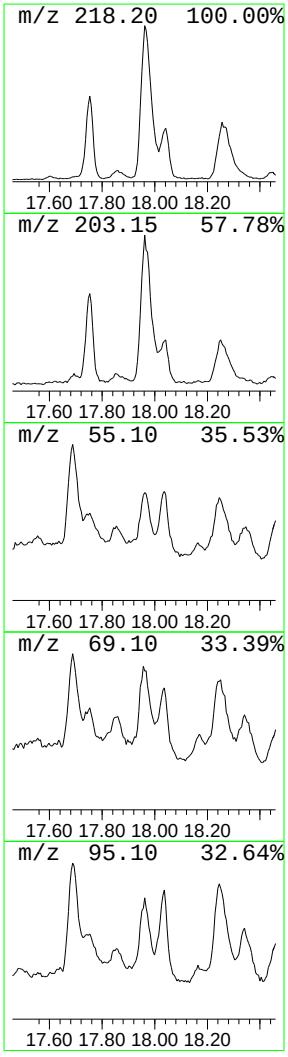
****

Peak Number 17 Unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.961	82.05 ppm	6610420	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(1H)Naphthalenone, 3,5,6,7,8,8a...	218	C15H22O	1000188-66-5	80
2	Olean-12-ene	410	C30H50	000471-68-1	72
3	Pyrrolo[2,3-b]indole, 1,2,3,3a,8...	218	C13H18N2O	046479-70-3	70
4	.alpha.-Amyrin	426	C30H50O	000638-95-9	60
5	(1S,6R,9S)-5,5,9,10-Tetramethylt...	218	C16H26	1000298-97-8	58





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

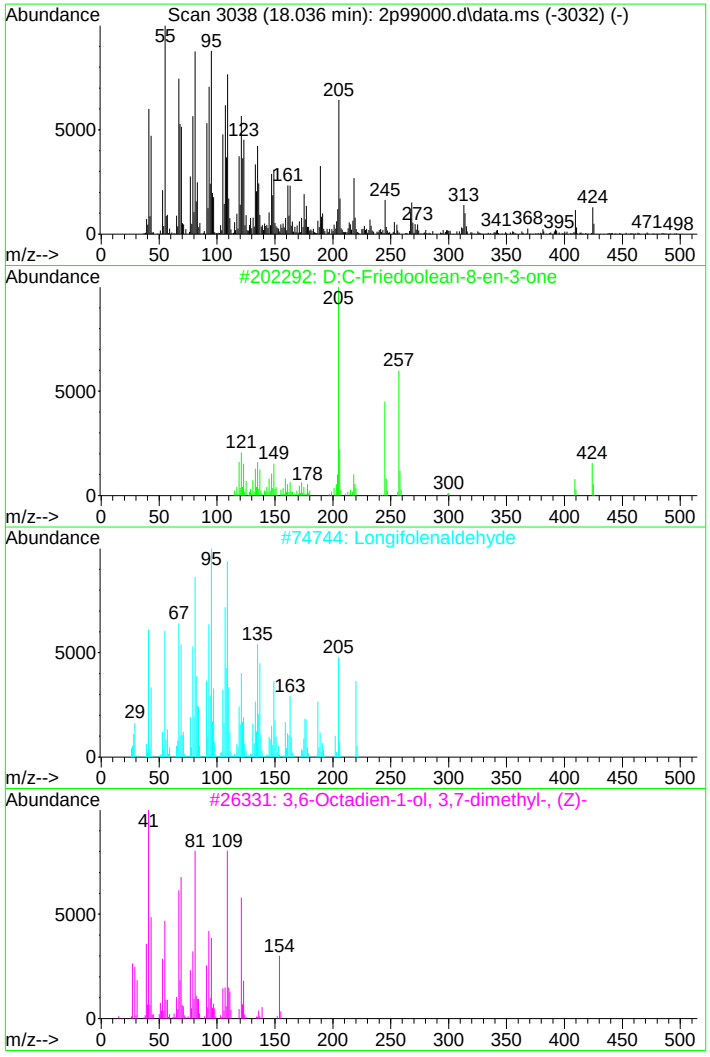
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

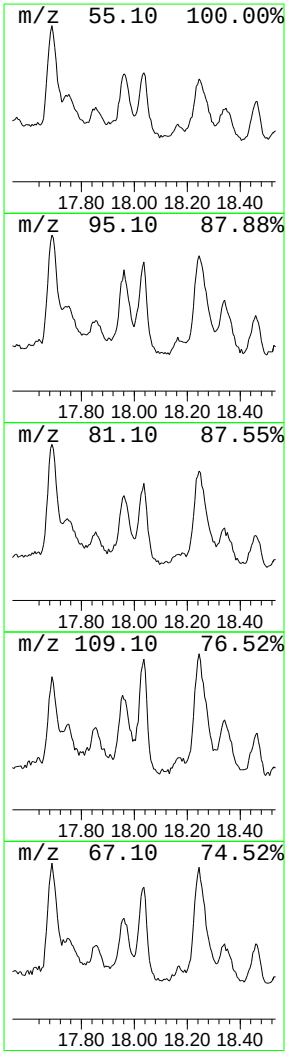
****

Peak Number 18 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.036	75.36 ppm	6071330	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D:C-Friedoolean-8-en-3-one	424	C30H48O	022611-26-3	94
2	Longifolenaldehyde	220	C15H24O	019890-84-7	50
3	3,6-Octadien-1-ol, 3,7-dimethyl-...	154	C10H18O	005944-20-7	49
4	Iridomyrmecin	168	C10H16O2	000485-43-8	49
5	1,5-Dibromo-3-cyclohexylpentane	310	C11H20Br2	070928-50-6	46





Library Search Compound Report

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Data File : 2p99000.d
Acq On    : 15 Jan 2021    9:44 pm
Operator  : hennys
Sample    : jd18939-2
Misc      : op31540,e2p4412,30.7,,,1,1
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

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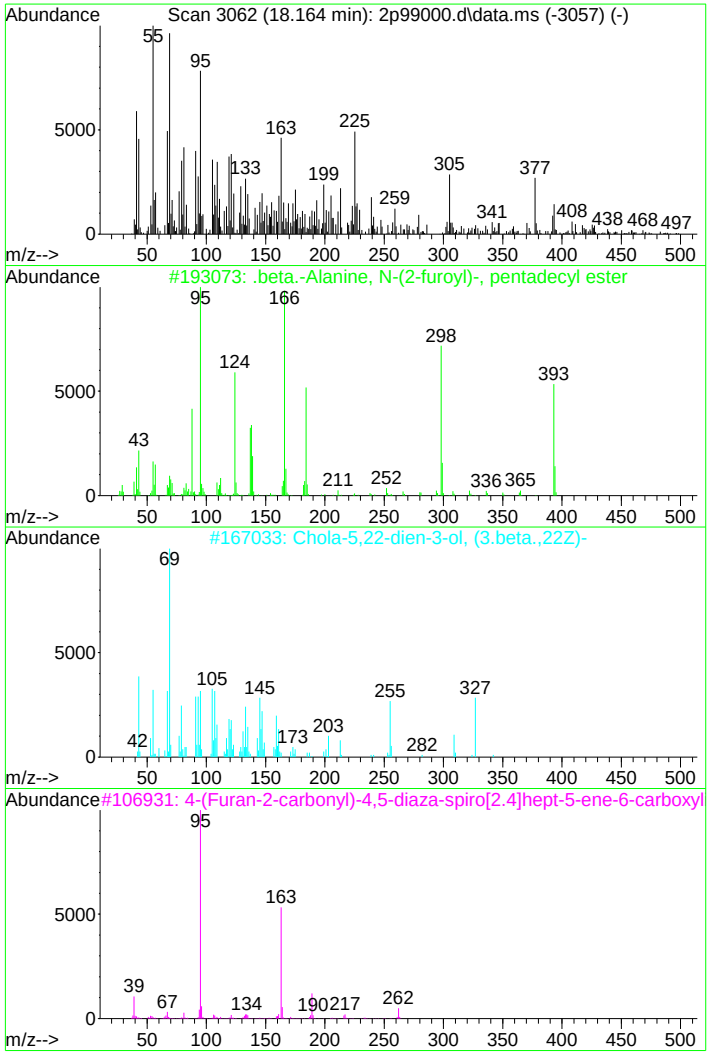
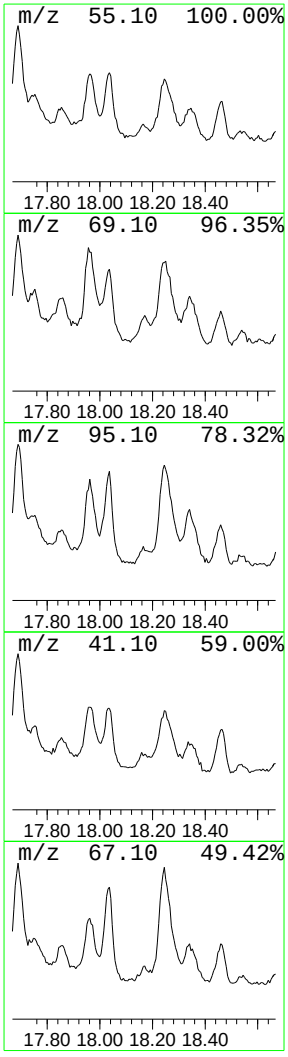
Peak Number 19 Unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.165	10.82 ppm	871524	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Alanine, N-(2-furoyl)-, p...	393	C23H39NO4	1000321-98-4	59
2	Chola-5,22-dien-3-ol, (3.beta.,2...	342	C24H38O	057597-14-5	18
3	4-(Furan-2-carbonyl)-4,5-diaza-s...	262	C13H14N2O4	1000276-03-0	16
4	1,3-Dioxolane, 4-butyl-5-ethyl-2...	294	C11H16F6O2	038363-90-5	12
5	1,3-Dioxolane, 4-butyl-5-ethyl-2...	294	C11H16F6O2	038363-91-6	12





Library Search Compound Report

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Data File : 2p99000.d
Acq On    : 15 Jan 2021    9:44 pm
Operator  : hennys
Sample    : jd18939-2
Misc      : op31540,e2p4412,30.7,,,1,1
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

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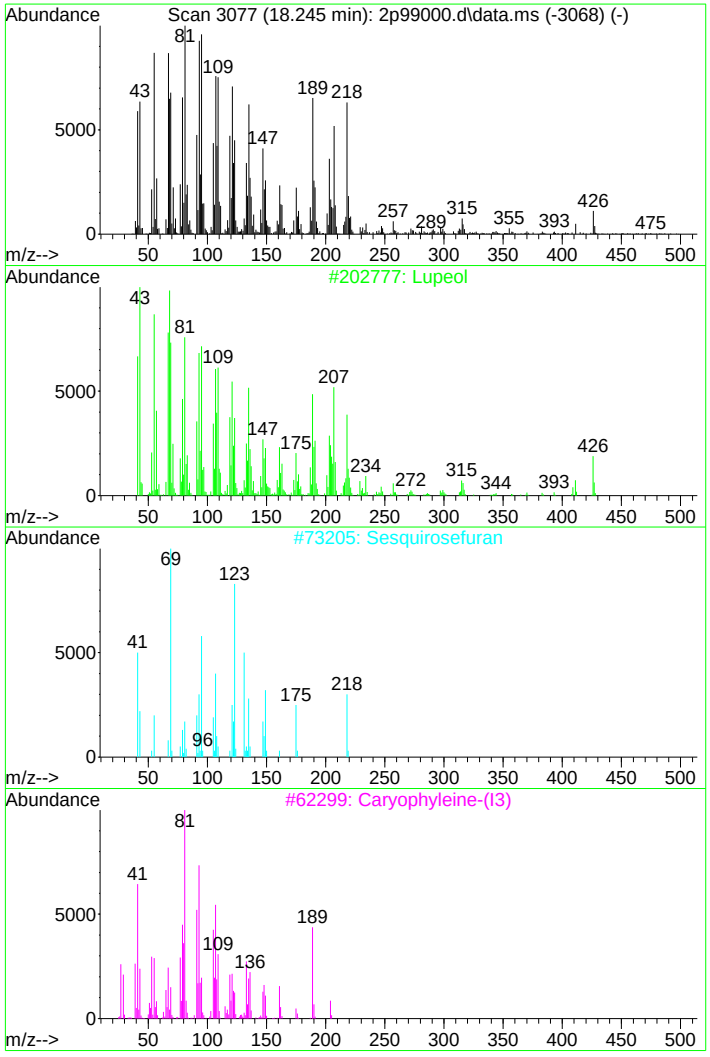
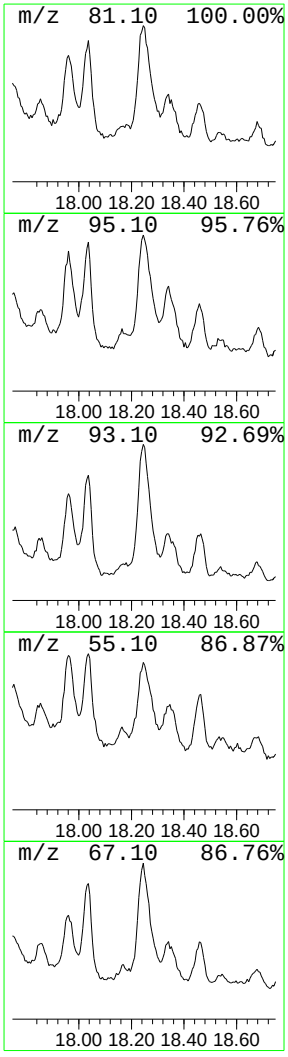
Peak Number 20 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.245	120.98 ppm	9747120	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Lupeol	426	C30H50O	000545-47-1	70
2	Sesquirosefuran	218	C15H22O	039007-93-7	55
3	Caryophyleine-(I3)	204	C15H24	136296-37-2	51
4	4,8-Methanoazulen-9-ol, decahydr...	222	C15H26O	004586-22-5	49
5	Taraxasterol	426	C30H50O	001059-14-9	47





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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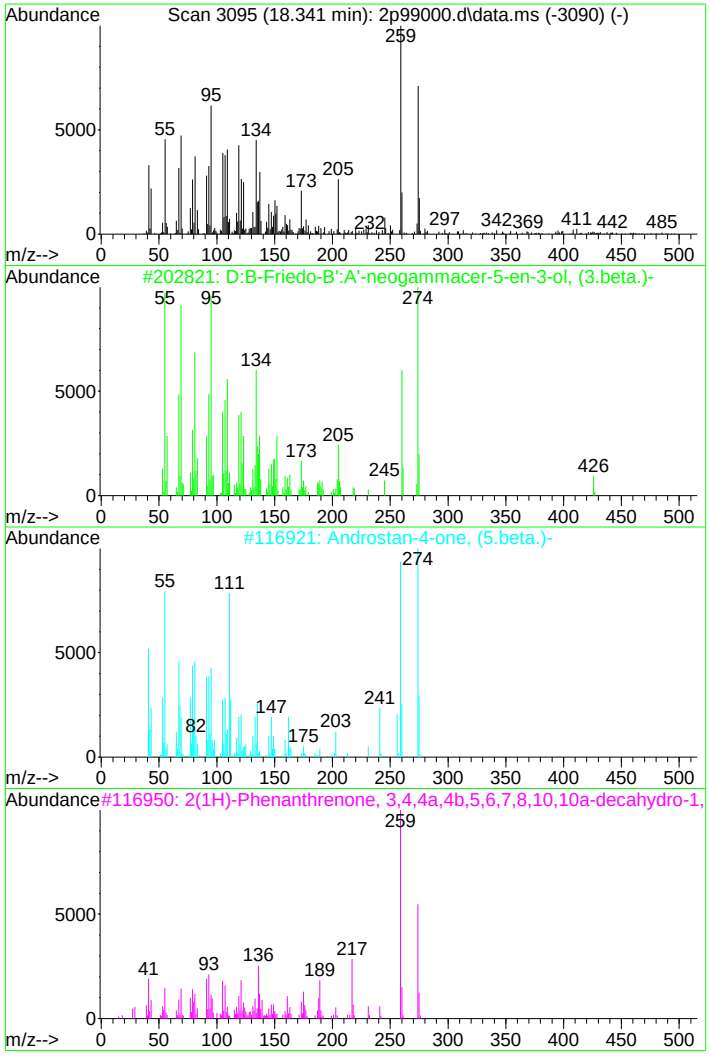
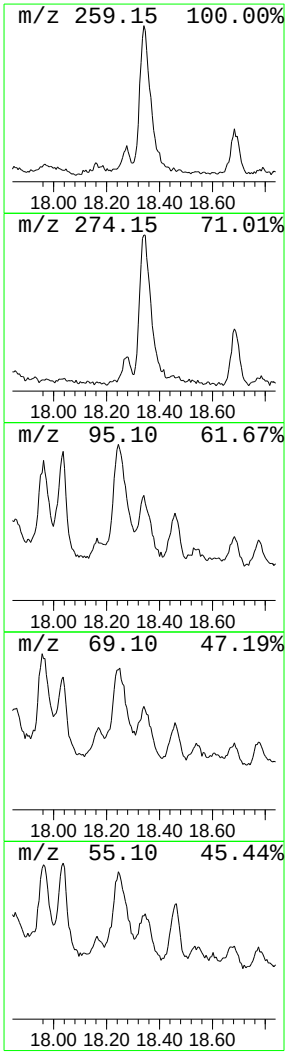
Peak Number 21 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.341	43.65 ppm	3516610	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D:B-Friedo-B':A'-neogammacer-5-e...	426	C30H50O	001615-94-7	43
2	Androstan-4-one, (5.beta.)-	274	C19H30O	013583-71-6	42
3	2(1H)-Phenanthrenone, 3,4,4a,4b,...	274	C19H30O	007715-44-8	38
4	10H-Phenoxaphosphine, 2-ethyl-10...	274	C15H15O3P	036360-91-5	35
5	1-[p-Nitrophenyl]-3-[2-pyrimidyl...	259	C11H9N5O3	023656-31-7	27





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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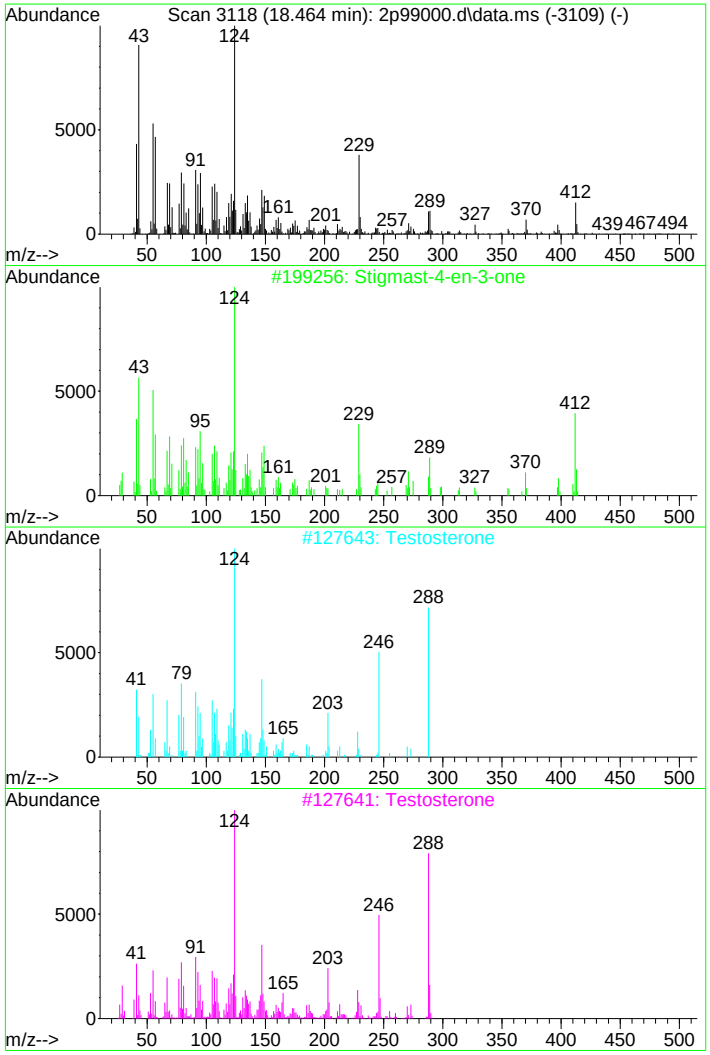
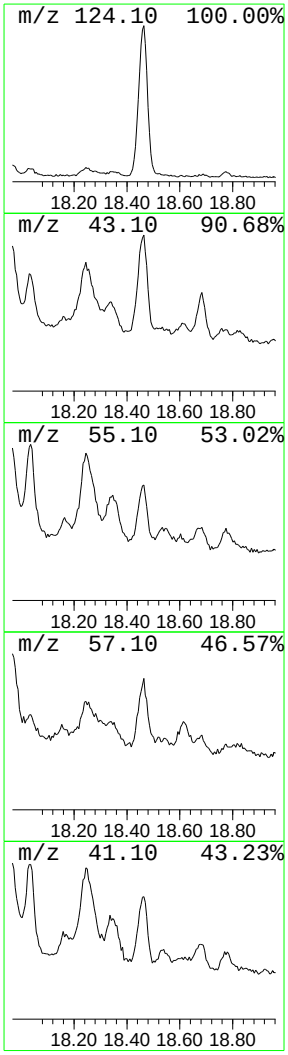
Peak Number 22 Stigmastenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.464	47.49 ppm	3826450	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	96
2	Testosterone	288	C19H28O2	000058-22-0	70
3	Testosterone	288	C19H28O2	000058-22-0	70
4	Androst-4-en-3-one, 17-hydroxy-,...	288	C19H28O2	000604-39-7	49
5	5-Bromovaleric acid, 2,6-dimethy...	328	C16H25BrO2	1000292-56-9	49





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

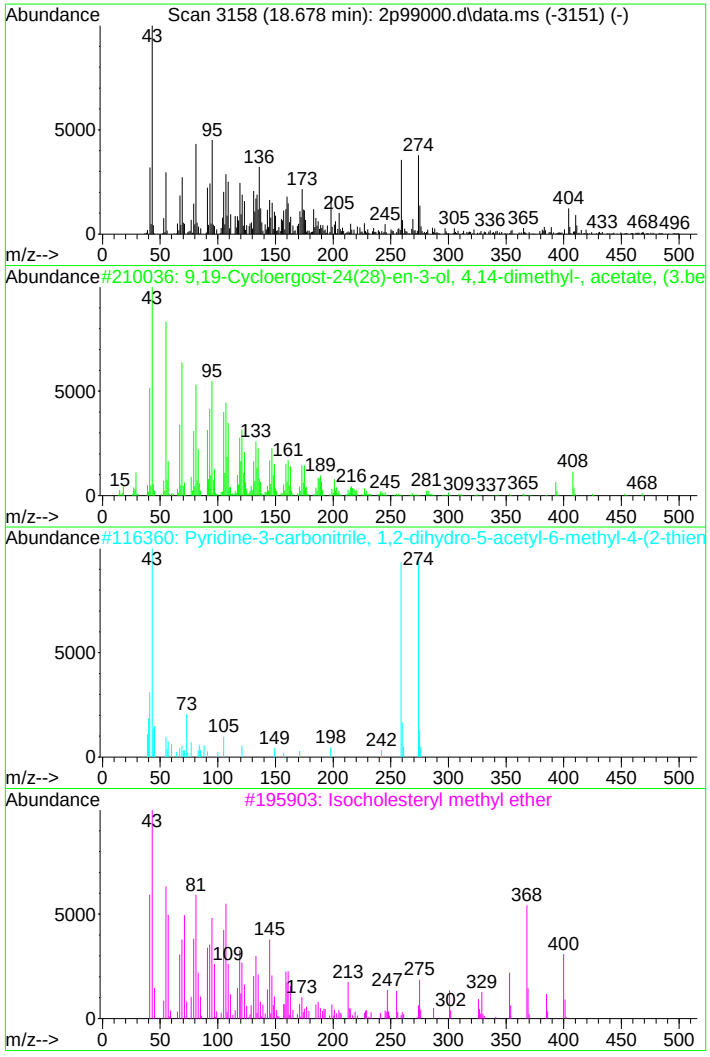
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

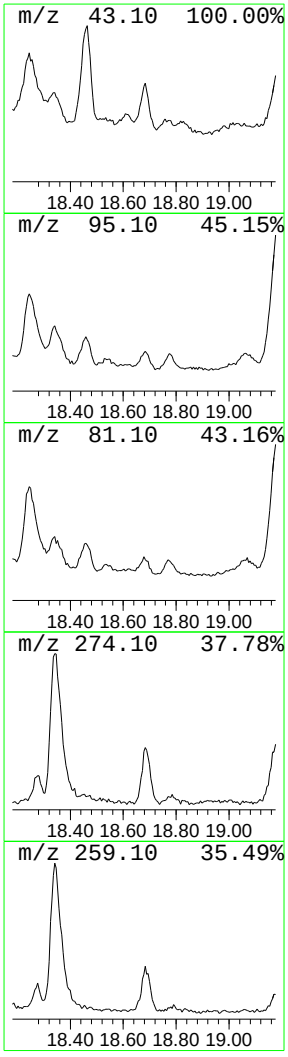
****

Peak Number 23 Unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.678	28.29 ppm	2279610	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,19-Cycloergost-24(28)-en-3-ol,...	468	C32H52O2	010376-42-8	18
2	Pyridine-3-carbonitrile, 1,2-dih...	274	C13H10N2OS2	179088-20-1	14
3	Isocholesteryl methyl ether	400	C28H48O	029944-53-4	9
4	5.beta.,6.beta.-Epoxycholest-7-e...	400	C27H44O2	095841-71-7	9
5	Octopamine	153	C8H11NO2	000104-14-3	7





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

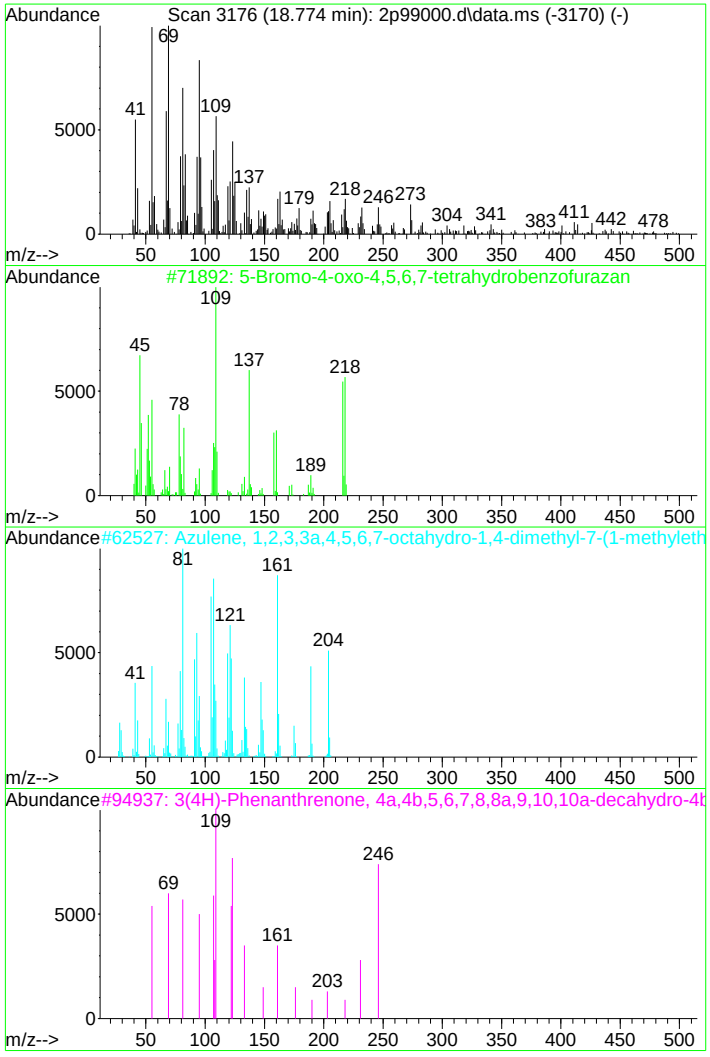
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

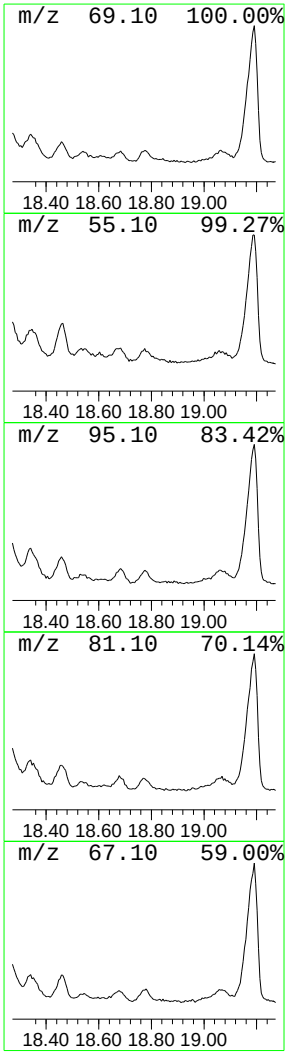
****

Peak Number 24 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.774	17.22 ppm	1387720	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Bromo-4-oxo-4,5,6,7-tetrahydro...	216	C6H5BrN2O2	300574-36-1	68
2	Azulene, 1,2,3,3a,4,5,6,7-octahy...	204	C15H24	022567-17-5	59
3	3(4H)-Phenanthrenone, 4a,4b,5,6,...	246	C17H26O	057684-12-5	52
4	Sandaracopimar-15-ene-6.beta.,8....	322	C20H34O3	041756-31-4	50
5	Bicyclo[3.1.1]heptane, 2,6,6-tri...	138	C10H18	000473-55-2	42





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

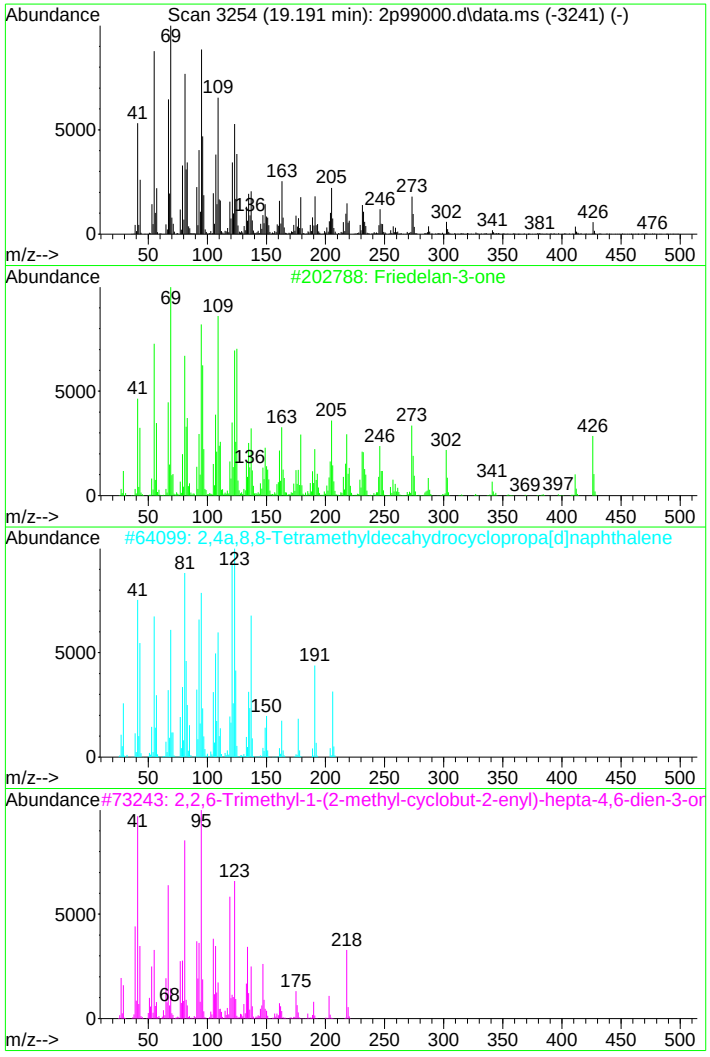
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

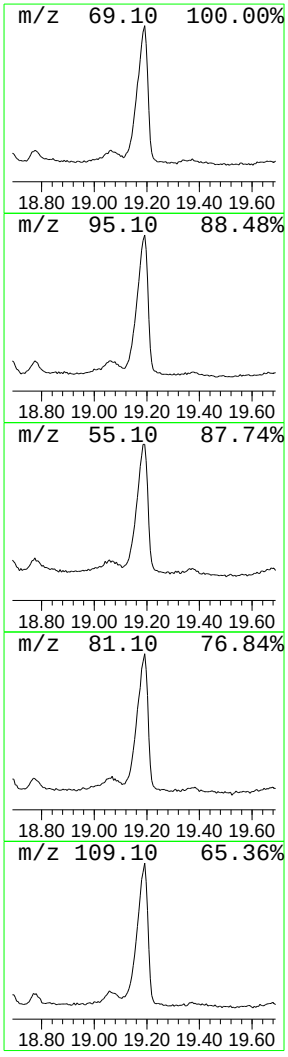
****

Peak Number 25 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.191	178.20 ppm	14356800	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Friedelan-3-one	426	C30H50O	000559-74-0	96
2	2,4a,8,8-Tetramethyldecahydrocyc...	206	C15H26	074022-04-1	86
3	2,2,6-Trimethyl-1-(2-methyl-cycl...	218	C15H22O	1000188-72-8	64
4	5-Bromo-4-oxo-4,5,6,7-tetrahydro...	216	C6H5BrN2O2	300574-36-1	59
5	7-Tetradecyne	194	C14H26	035216-11-6	49





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Bisnorabieta-pe...	11.479	15.8	ppm	1453490	11	9.462	3678150	40.0
Alkane	14.677	28.0	ppm	4070990	14	13.629	5818250	40.0
Unknown	15.132	14.1	ppm	1137650	15	15.752	3222700	40.0
Unknown	15.340	8.5	ppm	682171	15	15.752	3222700	40.0
Alkane	15.618	99.5	ppm	8012600	15	15.752	3222700	40.0
Unknown	16.057	11.9	ppm	954698	15	15.752	3222700	40.0
Unknown alcohols	16.260	16.4	ppm	1325650	15	15.752	3222700	40.0
Unknown	16.464	21.3	ppm	1716440	15	15.752	3222700	40.0
Alkane	16.501	74.7	ppm	6015640	15	15.752	3222700	40.0
Unknown	16.560	35.7	ppm	2875660	15	15.752	3222700	40.0
Unknown	16.827	10.9	ppm	880153	15	15.752	3222700	40.0
Unknown	16.929	11.2	ppm	905250	15	15.752	3222700	40.0
Stigmasterol	17.357	15.1	ppm	1216090	15	15.752	3222700	40.0
Alkane	17.426	10.8	ppm	866815	15	15.752	3222700	40.0
Sitosterol	17.688	140.8	ppm	11346900	15	15.752	3222700	40.0
Unknown	17.854	28.8	ppm	2317890	15	15.752	3222700	40.0
Unknown	17.961	82.0	ppm	6610420	15	15.752	3222700	40.0
Unknown	18.036	75.4	ppm	6071330	15	15.752	3222700	40.0
Unknown	18.165	10.8	ppm	871524	15	15.752	3222700	40.0
Unknown	18.245	121.0	ppm	9747120	15	15.752	3222700	40.0
Unknown	18.341	43.6	ppm	3516610	15	15.752	3222700	40.0
Stigmastenone	18.464	47.5	ppm	3826450	15	15.752	3222700	40.0
Unknown	18.678	28.3	ppm	2279610	15	15.752	3222700	40.0
Unknown	18.774	17.2	ppm	1387720	15	15.752	3222700	40.0
Unknown	19.191	178.2	ppm	14356800	15	15.752	3222700	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3 Inst : MS2P
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 04:09:12 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.435	152	491760	40.00	ppm	0.00
24) Naphthalene-d8	5.419	136	1732455	40.00	ppm	0.00
47) Acenaphthene-d10	7.350	164	994022	40.00	ppm	0.00
69) Phenanthrene-d10	9.468	188	1587733	40.00	ppm	0.00
83) Chrysene-d12	13.640	240	1429985	40.00	ppm	0.02
91) Perylene-d12	15.758	264	1579449	40.00	ppm	0.03
101) 1,4-Dichlorobenzene-d4a	4.435	152	491760	40.00	ppm	0.00
103) Naphthalene-d8a	5.419	136	1732455	40.00	ppm	0.00
105) Acenaphthene-d10a	7.350	164	994022	40.00	ppm	0.00
107) Chrysene-d12a	13.640	240	1429985	40.00	ppm	0.02
109) Phenanthrene-d10a	9.468	188	1587733	40.00	ppm	0.00
112) 1,4-Dichlorobenzene-d4b	4.435	152	491760	40.00	ppm	0.00
115) Acenaphthene-d10b	7.350	164	994620	40.00	ppm	0.00
117) Phenanthrene-d10b	9.468	188	1587733	40.00	ppm	0.00
120) Chrysene-d12b	13.640	240	1429985	40.00	ppm	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.520	112	388169	23.16	ppm	0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 46.32%			
8) Phenol-d5	4.231	99	502615	23.68	ppm	0.01
Spiked Amount 50.000	Range 10 - 59		Recovery = 47.36%			
25) Nitrobenzene-d5	4.841	82	584213	30.04	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 60.08%			
51) 2-Fluorobiphenyl	6.526	172	832652	25.47	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 50.94%			
73) 2,4,6-Tribromophenol	8.457	330	167715	29.21	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 58.42%			
85) Terphenyl-d14	12.024	244	1041964	31.29	ppm	0.02
Spiked Amount 50.000	Range 16 - 65		Recovery = 62.58%			
118) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
119) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
Target Compounds						Qvalue
38) Naphthalene	5.440	128	10373	0.24	ppm	93
44) 2-Methylnaphthalene	6.114	141	4143	0.18	ppm	96
56) Acenaphthylene	7.162	152	67041	1.47	ppm	97
59) Acenaphthene	7.387	153	12714	0.42	ppm	98
62) Dibenzofuran	7.628	168	10595	0.26	ppm	90
66) Fluorene	8.098	166	18894	0.58	ppm	97
77) Phenanthrene	9.500	178	503302	11.92	ppm	99
78) Anthracene	9.580	178	177140	4.19	ppm	98
79) Carbazole	9.874	167	48204	1.21	ppm	96
81) Fluoranthene	11.356	202	1640041	35.39	ppm	98
84) Pyrene	11.693	202	1492849	35.19	ppm	97
87) Benzo[a]anthracene	13.623	228	811968	19.53	ppm	99
89) Chrysene	13.672	228	758470	19.05	ppm	98
93) Benzo[b]fluoranthene	15.239	252	1097761	23.27	ppm	97
94) Benzo[k]fluoranthene	15.271	252	299074	6.87	ppm	96
95) Benzo[a]pyrene	15.672	252	781225	19.07	ppm	96
96) Indeno[1,2,3-cd]pyrene	17.122	276	586570	13.35	ppm	97
98) Dibenz[a,h]anthracene	17.138	278	158747	3.48	ppm	95
100) Benzo[g,h,i]perylene	17.475	276	578861	13.37	ppm	99

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3 Inst : MS2P
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 04:09:12 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

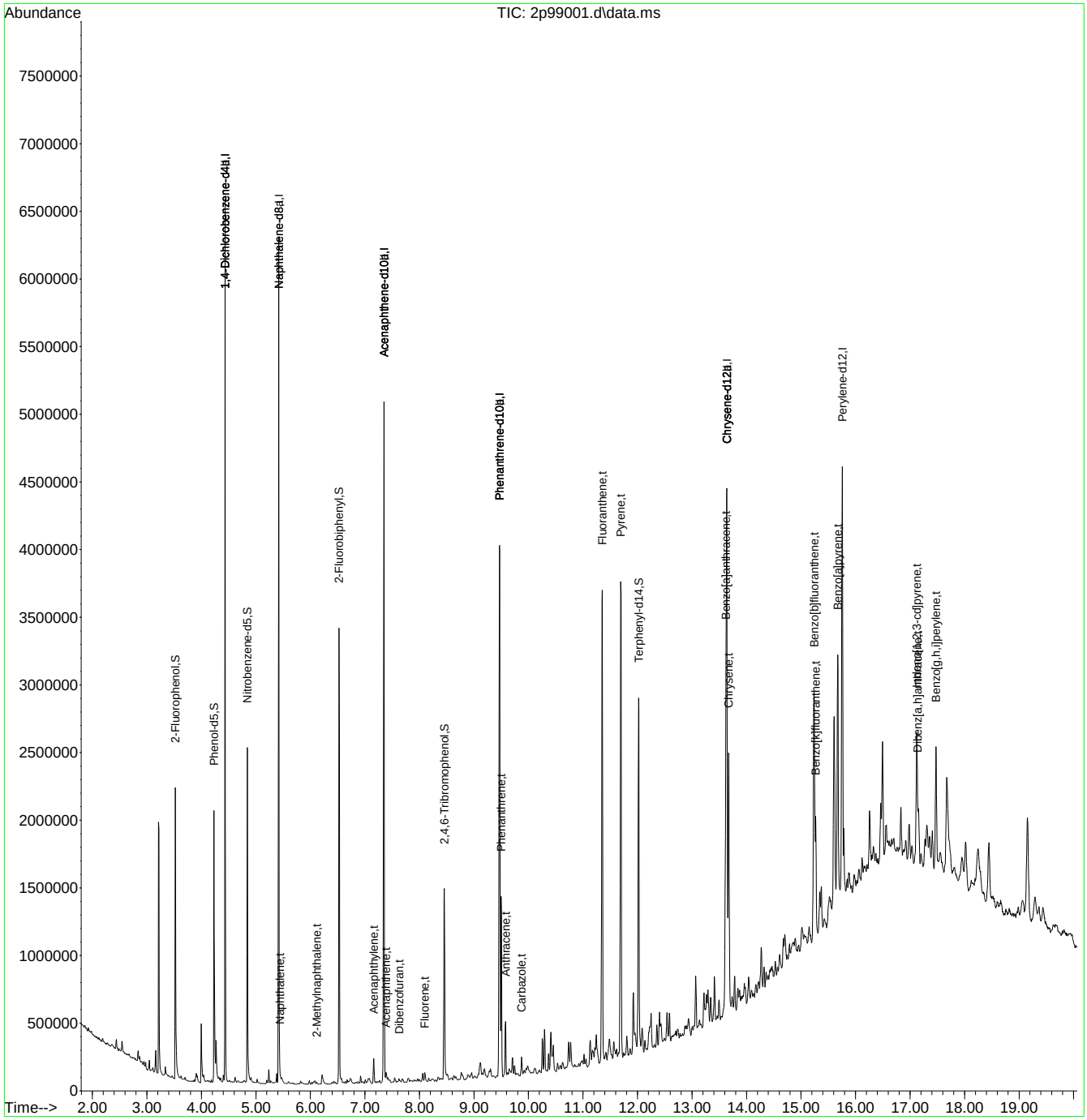
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

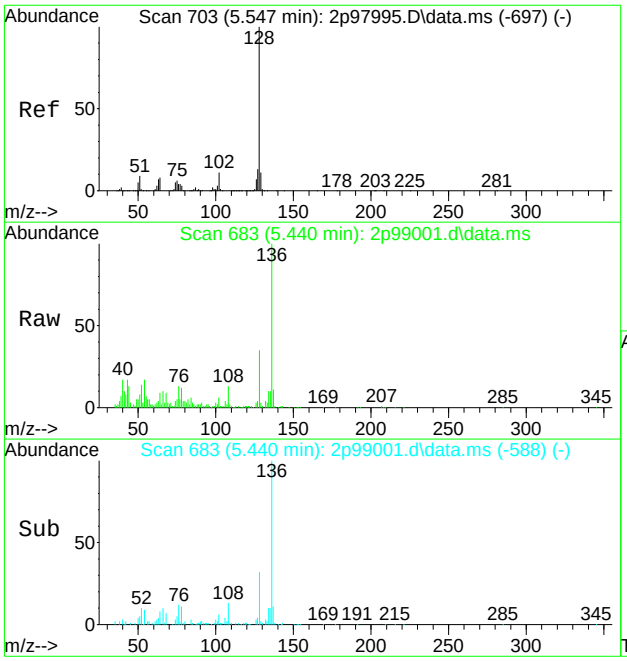
Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3 Inst : MS2P
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 04:09:12 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration



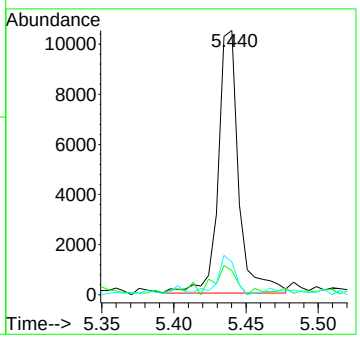
M2P4365.M Mon Jan 18 05:02:19 2021 Page: 3

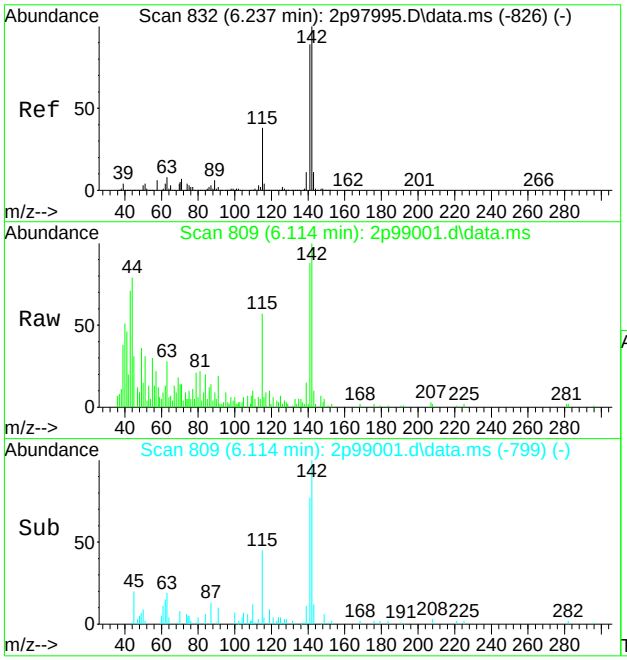


#38
Naphthalene
Concen: 0.24 ppm
RT: 5.440 min Scan# 683
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:128 Resp: 10373

Ion	Ratio	Lower	Upper
128	100		
129	7.6	0.0	41.2
127	11.7	0.0	43.7

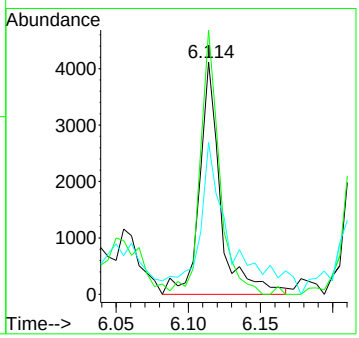


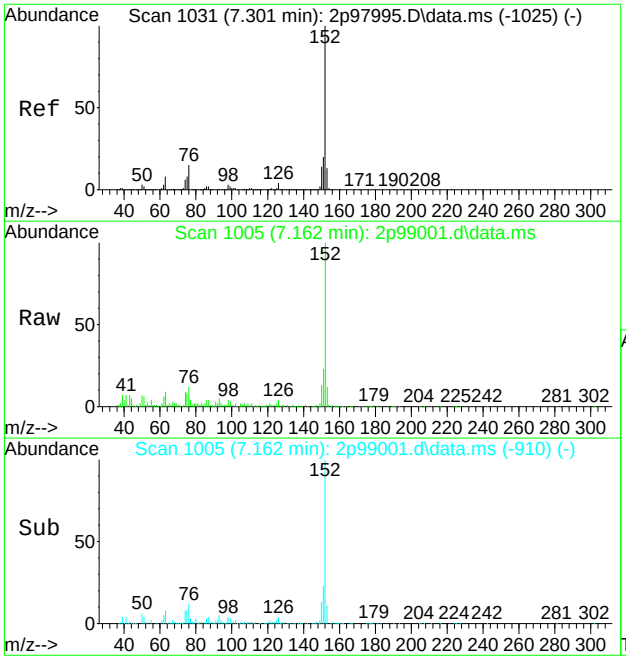


#44
2-Methylnaphthalene
Concen: 0.18 ppm
RT: 6.114 min Scan# 809
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:141 Resp: 4143

Ion	Ratio	Lower	Upper
141	100		
142	113.0	88.6	148.6
115	58.2	27.1	87.1

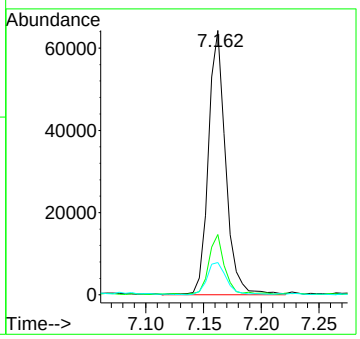


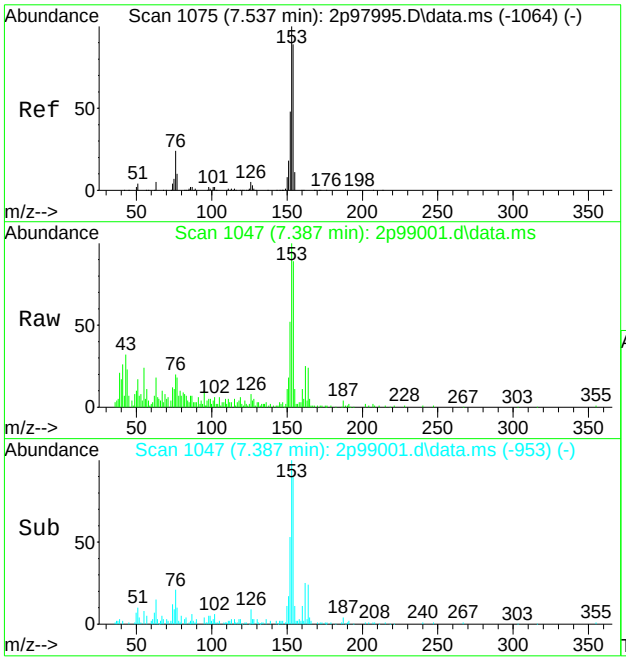


#56
Acenaphthylene
Concen: 1.47 ppm
RT: 7.162 min Scan# 1005
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:152 Resp: 67041

Ion	Ratio	Lower	Upper
152	100		
151	22.4	0.0	50.7
153	12.0	0.0	42.9

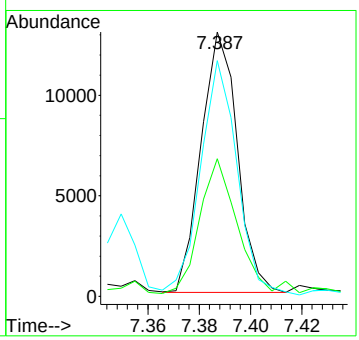


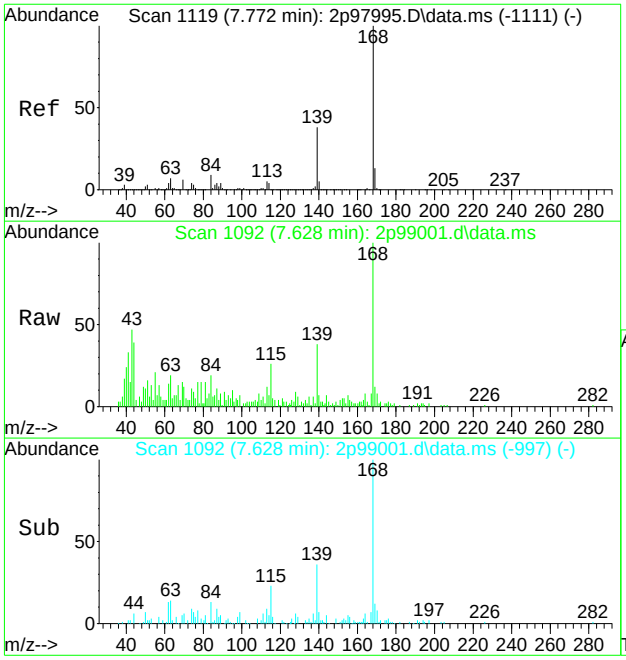


#59
Acenaphthene
Concen: 0.42 ppm
RT: 7.387 min Scan# 1047
Delta R.T. 0.000 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:153 Resp: 12714

Ion	Ratio	Lower	Upper
153	100		
152	49.4	18.0	78.0
154	88.5	60.1	120.1

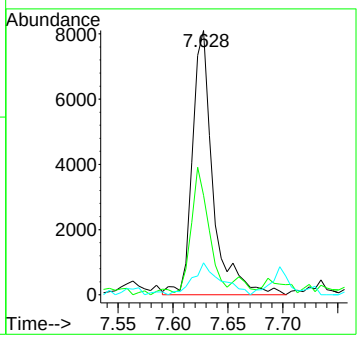


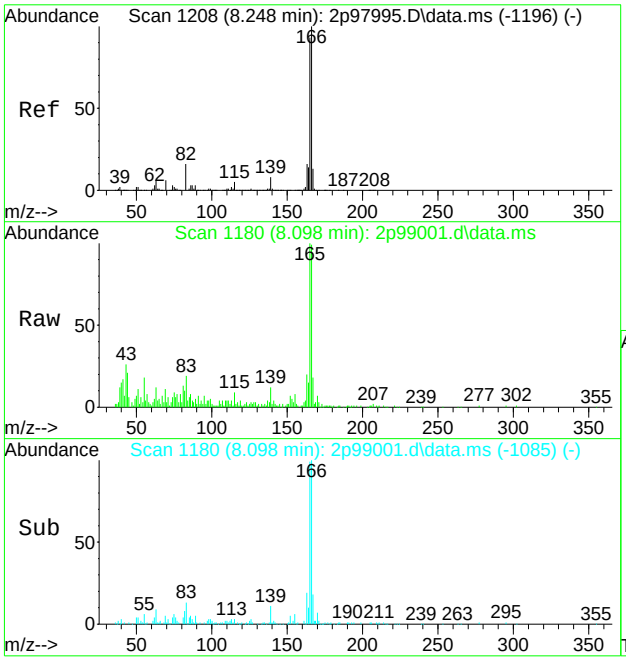


#62
Dibenzofuran
Concen: 0.26 ppm
RT: 7.628 min Scan# 1092
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:168 Resp: 10595

Ion	Ratio	Lower	Upper
168	100		
139	34.9	10.6	70.6
169	8.0	0.0	42.9

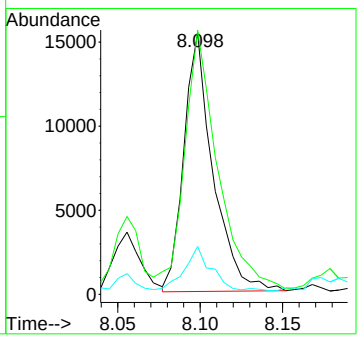


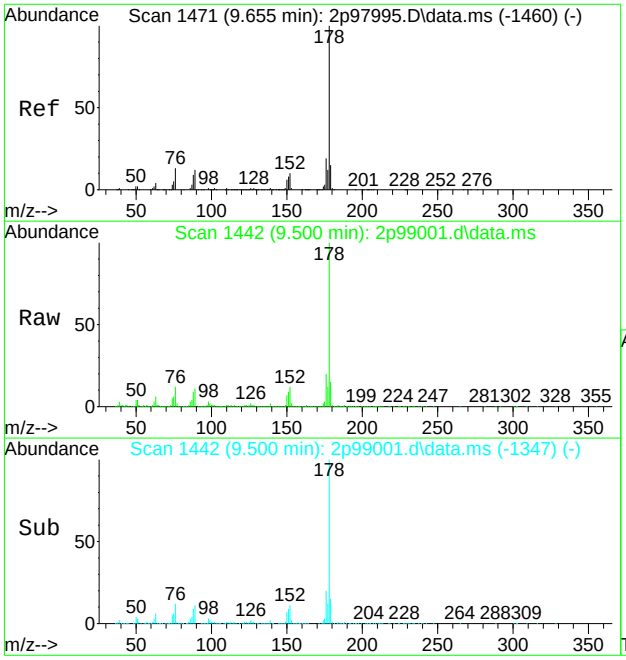


#66
Fluorene
Concen: 0.58 ppm
RT: 8.098 min Scan# 1180
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:166 Resp: 18894

Ion	Ratio	Lower	Upper
166	100		
165	97.9	65.3	125.3
167	16.3	0.0	43.3

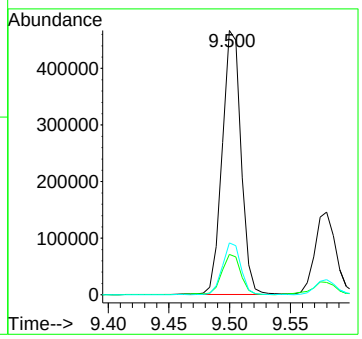


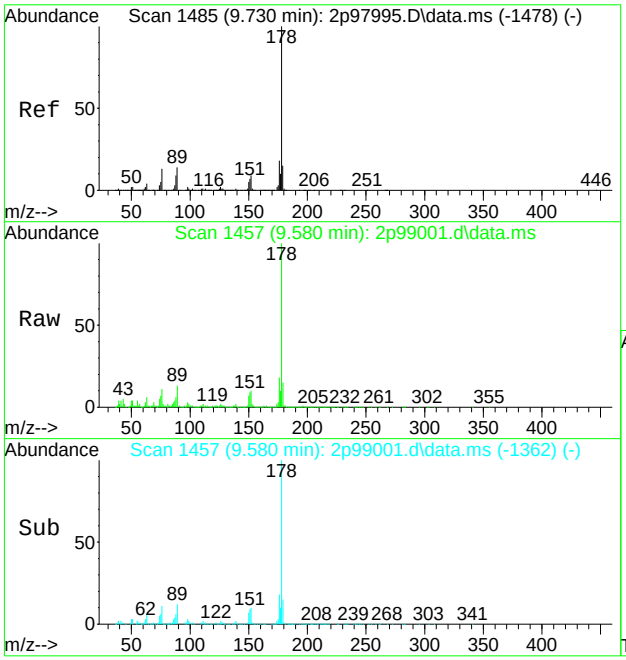


#77
Phenanthrene
Concen: 11.92 ppm
RT: 9.500 min Scan# 1442
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:178 Resp: 503302

Ion	Ratio	Lower	Upper
178	100		
179	15.0	0.0	44.9
176	19.6	0.0	49.2

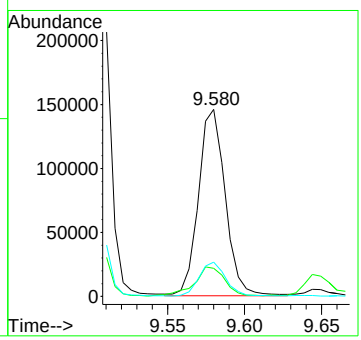


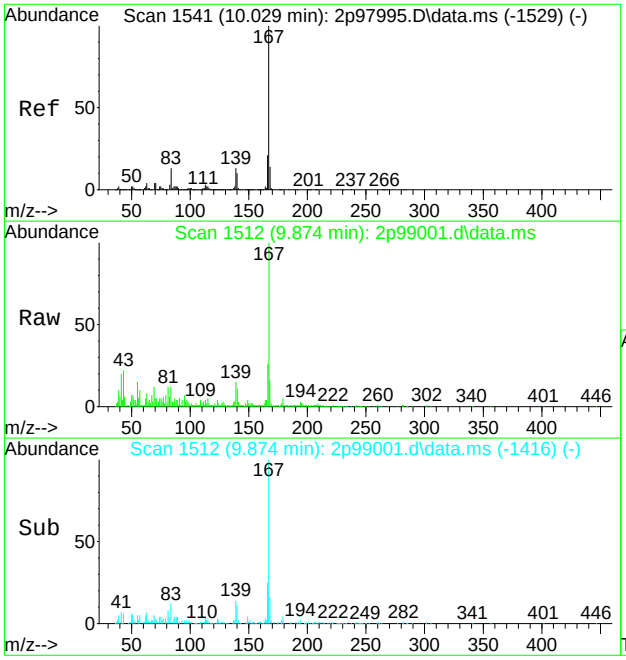


#78
Anthracene
Concen: 4.19 ppm
RT: 9.580 min Scan# 1457
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:178 Resp: 177140

Ion	Ratio	Lower	Upper
178	100		
179	14.4	0.0	44.8
176	18.2	0.0	49.1

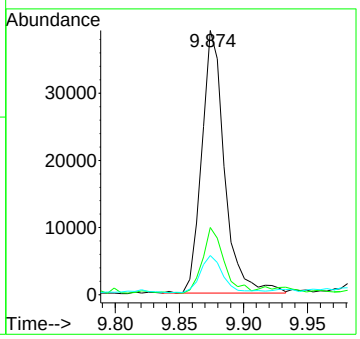


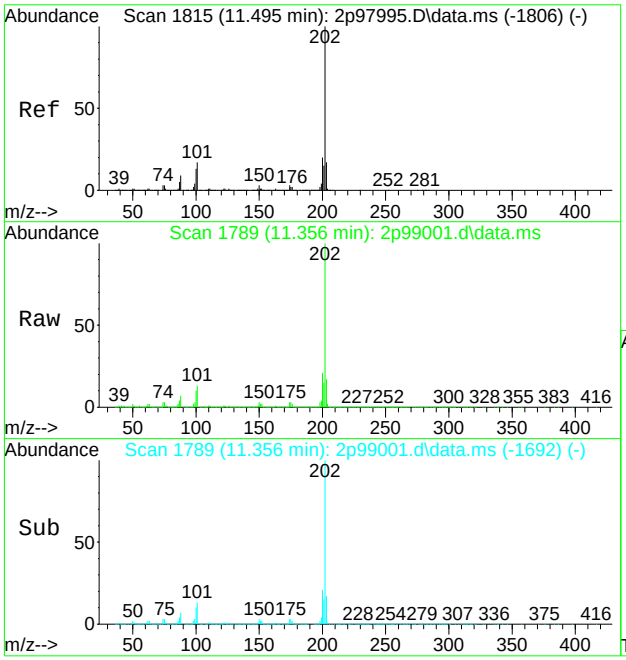


#79
Carbazole
Concen: 1.21 ppm
RT: 9.874 min Scan# 1512
Delta R.T. 0.011 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:167 Resp: 48204

Ion	Ratio	Lower	Upper
167	100		
166	23.7	0.0	51.3
139	13.5	0.0	44.4

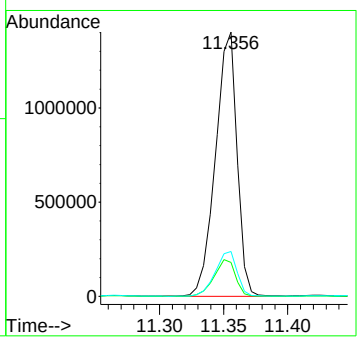


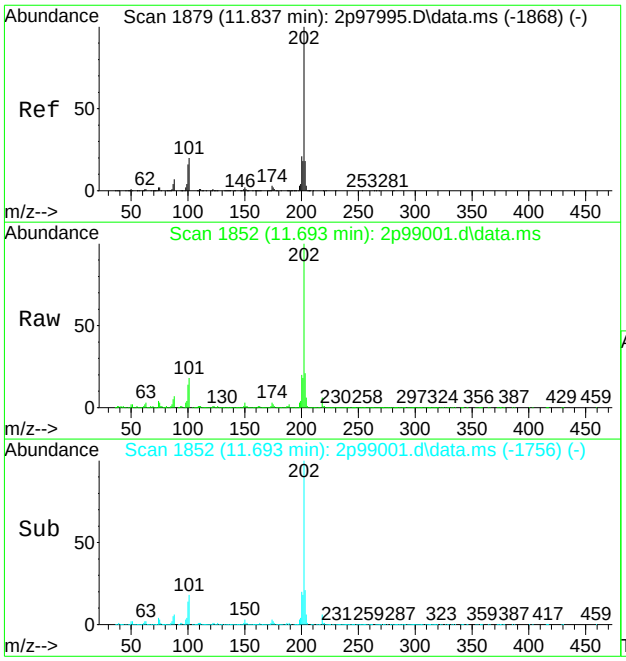


#81
Fluoranthene
Concen: 35.39 ppm
RT: 11.356 min Scan# 1789
Delta R.T. 0.016 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:202 Resp: 1640041

Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	43.7
203	16.9	0.0	46.5

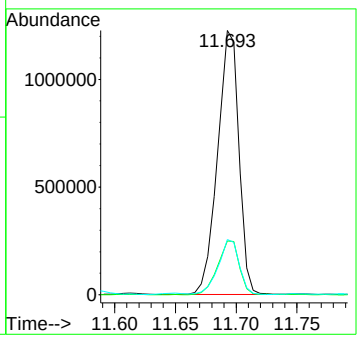


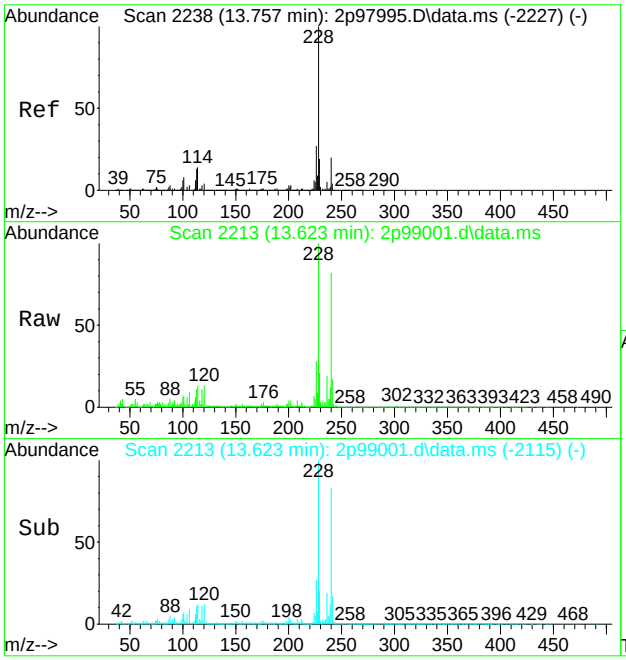


#84
Pyrene
Concen: 35.19 ppm
RT: 11.693 min Scan# 1852
Delta R.T. 0.011 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:202 Resp: 1492849

Ion	Ratio	Lower	Upper
202	100		
200	20.4	0.0	50.9
203	20.6	0.0	47.9

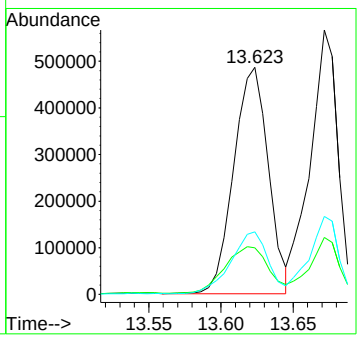


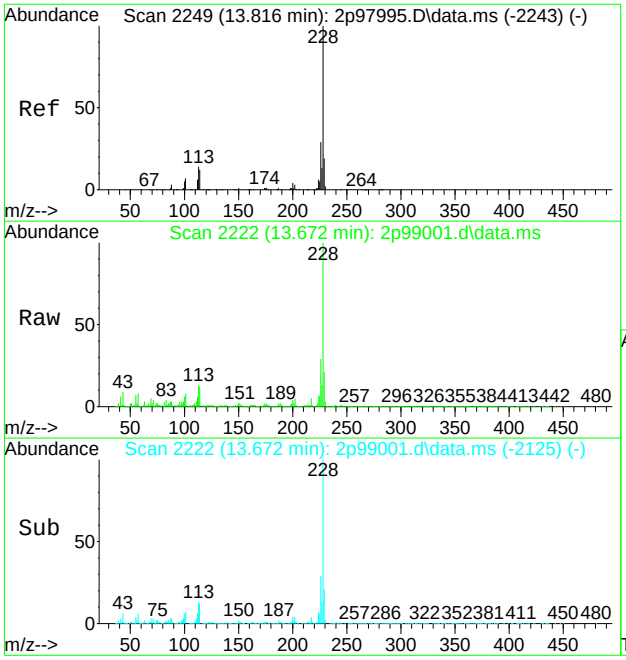


#87
Benzo[a]anthracene
Concen: 19.53 ppm
RT: 13.623 min Scan# 2213
Delta R.T. 0.022 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:228 Resp: 811968

Ion	Ratio	Lower	Upper
228	100		
229	19.3	0.0	50.0
226	27.2	0.0	56.8

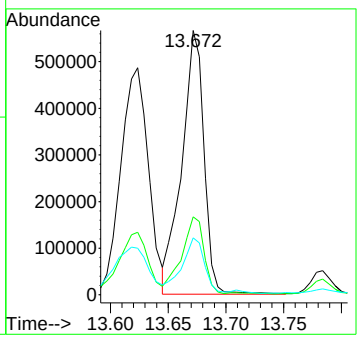


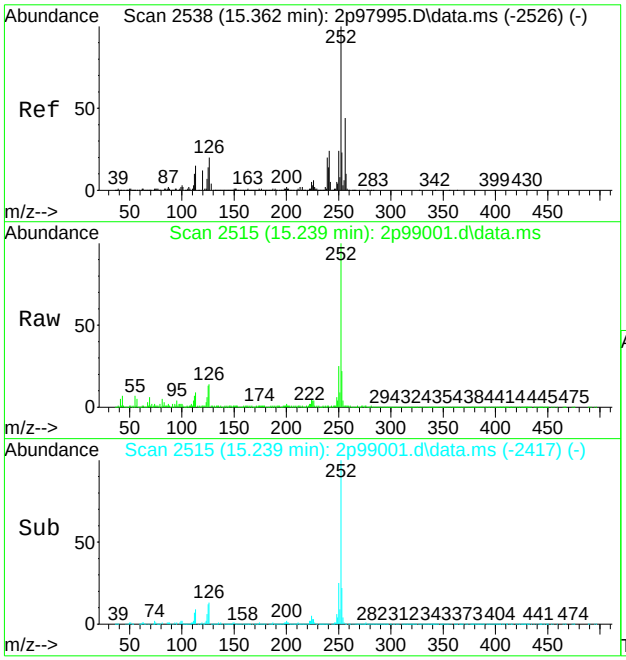


#89
Chrysene
Concen: 19.05 ppm
RT: 13.672 min Scan# 2222
Delta R.T. 0.016 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:228 Resp: 758470

Ion	Ratio	Lower	Upper
228	100		
226	29.2	0.3	60.3
229	20.3	0.0	49.6

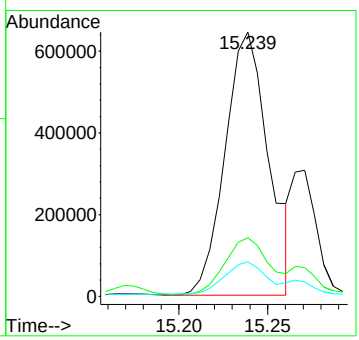


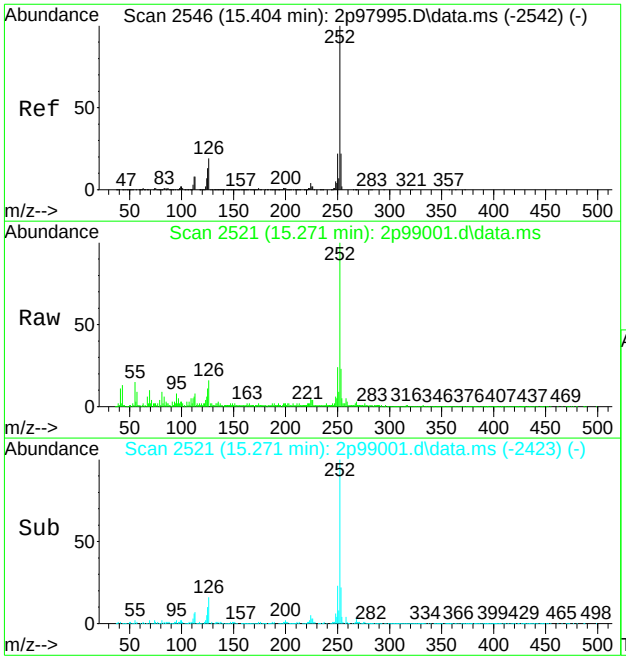


#93
Benzo[b]fluoranthene
Concen: 23.27 ppm
RT: 15.239 min Scan# 2515
Delta R.T. 0.022 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:252 Resp: 1097761

Ion	Ratio	Lower	Upper
252	100		
253	21.1	0.0	51.4
125	12.2	0.0	39.2

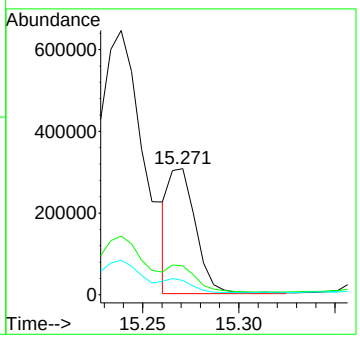


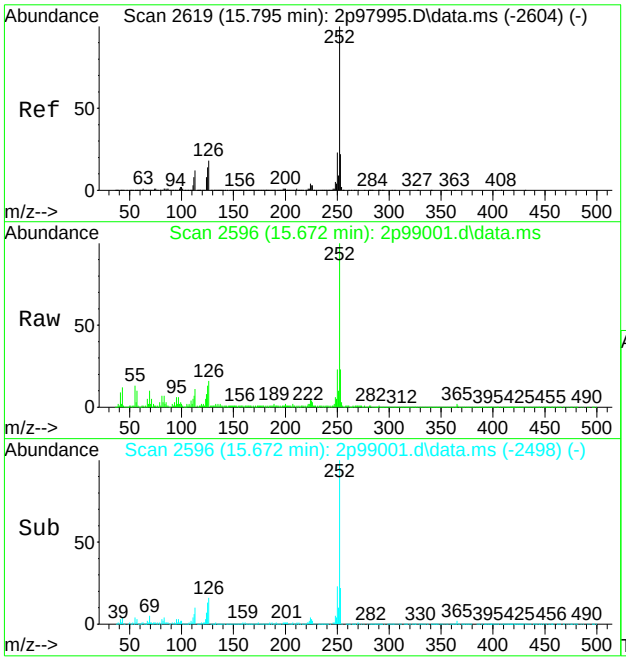


#94
Benzo[k]fluoranthene
Concen: 6.87 ppm
RT: 15.271 min Scan# 2521
Delta R.T. 0.022 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:252 Resp: 299074

Ion	Ratio	Lower	Upper
252	100		
253	20.5	0.0	51.6
125	8.0	0.0	40.9

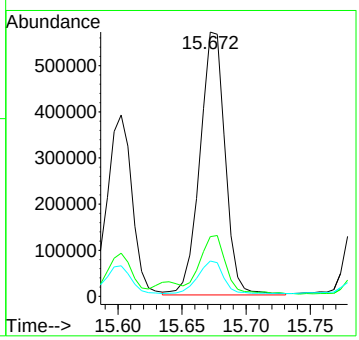


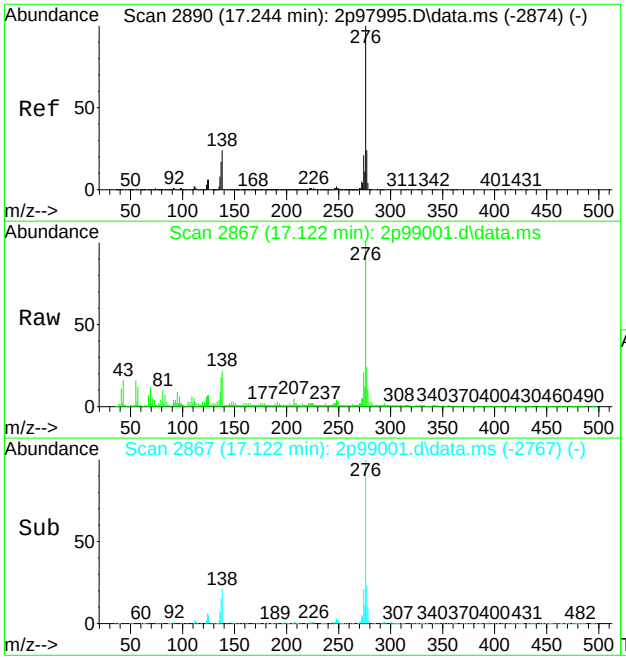


#95
Benzo[a]pyrene
Concen: 19.07 ppm
RT: 15.672 min Scan# 2596
Delta R.T. 0.022 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:252 Resp: 781225

Ion	Ratio	Lower	Upper
252	100		
253	19.6	0.0	51.7
125	12.4	0.0	41.0

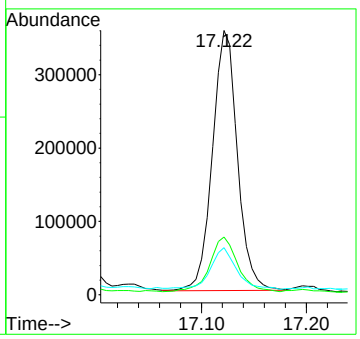


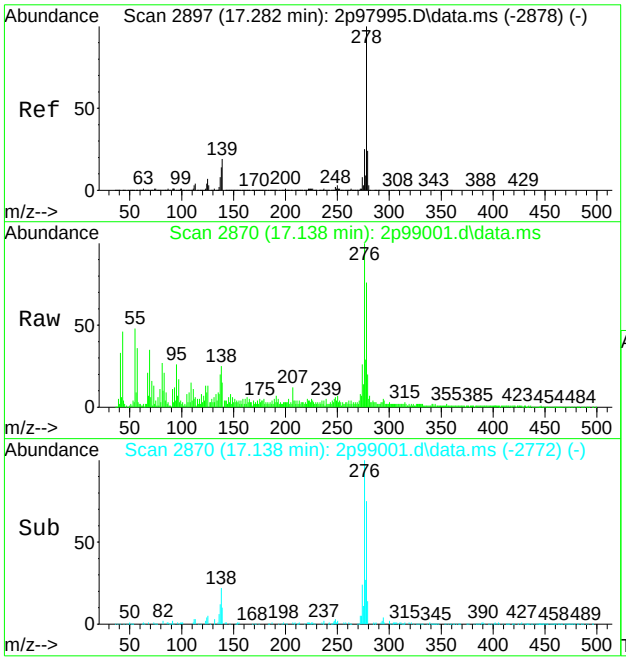


#96
Indeno[1,2,3-cd]pyrene
Concen: 13.35 ppm
RT: 17.122 min Scan# 2867
Delta R.T. 0.032 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:276 Resp: 586570

Ion	Ratio	Lower	Upper
276	100		
138	20.8	0.0	49.6
137	15.7	0.0	44.3

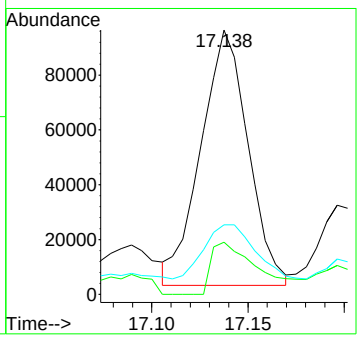


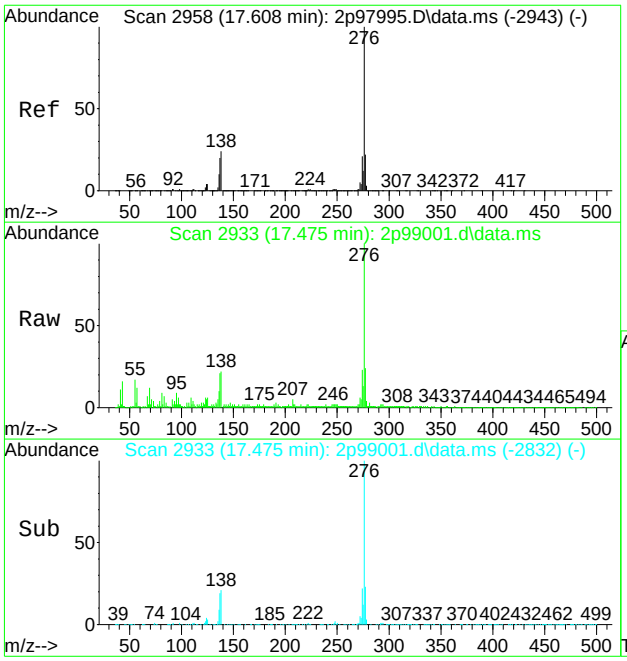


#98
Dibenz[a,h]anthracene
Concen: 3.48 ppm
RT: 17.138 min Scan# 2870
Delta R.T. 0.022 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:278 Resp: 158747

Ion	Ratio	Lower	Upper
278	100		
139	18.5	0.0	45.6
279	21.7	0.0	53.3

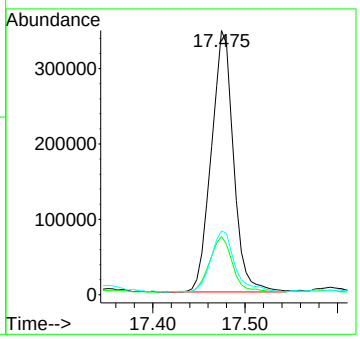




#100
Benzo[g,h,i]perylene
Concen: 13.37 ppm
RT: 17.475 min Scan# 2933
Delta R.T. 0.038 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:276 Resp: 578861

Ion	Ratio	Lower	Upper
276	100		
138	21.2	0.0	51.4
277	23.4	0.0	53.7



LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p99001.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.439	119	122	129	rVB2	85542	113379	1.61%	0.117%
2	2.541	138	141	157	rVB	101741	178555	2.54%	0.184%
3	3.162	251	257	264	rVV	169524	177564	2.52%	0.183%
4	3.215	264	267	285	rVB	1872306	1667609	23.70%	1.721%
5	3.338	285	290	299	rVB3	70083	92624	1.32%	0.096%
6	3.520	320	324	341	rVV	2156922	1942696	27.61%	2.005%
7	3.905	392	396	409	rVB2	69214	139728	1.99%	0.144%
8	3.996	409	413	420	rBV	435213	431180	6.13%	0.445%
9	4.231	453	457	462	rBV	2009134	1820453	25.87%	1.879%
10	4.269	462	464	471	rVV	310583	349035	4.96%	0.360%
11	4.435	491	495	508	rVV	6526772	4108914	58.39%	4.241%
12	4.841	566	571	582	rVV	2477634	1942386	27.60%	2.005%
13	5.419	675	679	687	rBV	6243621	4583049	65.13%	4.730%
14	6.216	824	828	841	rBV4	69852	131724	1.87%	0.136%
15	6.526	879	886	893	rBV	3368439	3003533	42.68%	3.100%
16	7.162	999	1005	1010	rBV	186172	210112	2.99%	0.217%
17	7.350	1030	1040	1045	rBV	5037320	4895821	69.57%	5.053%
18	8.098	1176	1180	1188	rVB2	67236	103729	1.47%	0.107%
19	8.457	1242	1247	1255	rBV	1411770	1684284	23.93%	1.738%
20	8.767	1299	1305	1316	rVB6	56914	130457	1.85%	0.135%
21	8.885	1316	1327	1334	rBV8	40714	114203	1.62%	0.118%
22	9.115	1358	1370	1375	rBV8	116247	292596	4.16%	0.302%
23	9.195	1380	1385	1394	rVB3	65210	131948	1.88%	0.136%
24	9.468	1430	1436	1440	rBV2	3924574	4878141	69.32%	5.035%
25	9.500	1440	1442	1448	rVB	1335026	1295690	18.41%	1.337%
26	9.580	1448	1457	1462	rBV	411816	528645	7.51%	0.546%
27	9.644	1467	1469	1476	rVV3	47547	92641	1.32%	0.096%
28	9.708	1476	1481	1485	rVV3	128977	168890	2.40%	0.174%
29	9.874	1506	1512	1517	rBV	141822	181564	2.58%	0.187%
30	9.986	1530	1533	1544	rVB6	57040	126160	1.79%	0.130%
31	10.115	1552	1557	1564	rVB7	42433	92937	1.32%	0.096%
32	10.254	1579	1583	1587	rBV	255304	300777	4.27%	0.310%
33	10.297	1587	1591	1597	rVV	315083	369162	5.25%	0.381%
34	10.372	1601	1605	1608	rBV	131825	147100	2.09%	0.152%
35	10.409	1608	1612	1616	rVV2	286714	424022	6.03%	0.438%
36	10.457	1618	1621	1630	rVB	196883	241620	3.43%	0.249%
37	10.735	1667	1673	1677	rVV	191270	270615	3.85%	0.279%
38	10.773	1677	1680	1691	rVB3	185789	265538	3.77%	0.274%
39	10.976	1712	1718	1723	rBV5	42253	104753	1.49%	0.108%
40	11.131	1741	1747	1751	rBV	189276	296060	4.21%	0.306%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

41	11.174	1751	1755	1761	rBV4	74102	141217	2.01%	0.146%
42	11.243	1761	1768	1779	rVB3	213617	517763	7.36%	0.534%
43	11.356	1779	1789	1795	rBV	3499626	4325977	61.47%	4.465%
44	11.425	1796	1802	1805	rVB2	60955	93780	1.33%	0.097%
45	11.484	1805	1813	1824	rBV5	158041	430044	6.11%	0.444%
46	11.564	1824	1828	1834	rBV2	126805	211746	3.01%	0.219%
47	11.693	1842	1852	1859	rVB	3517049	4424814	62.88%	4.567%
48	11.805	1868	1873	1878	rVB2	144282	202671	2.88%	0.209%
49	11.923	1889	1895	1899	rBV2	456947	668527	9.50%	0.690%
50	12.019	1907	1913	1921	rBV	2578612	3214517	45.68%	3.318%
51	12.083	1921	1925	1931	rVB3	179252	309197	4.39%	0.319%
52	12.137	1931	1935	1942	rBV4	87953	135090	1.92%	0.139%
53	12.249	1944	1956	1963	rBV3	264495	687567	9.77%	0.710%
54	12.356	1971	1976	1980	rBV2	166236	204723	2.91%	0.211%
55	12.404	1980	1985	1988	rBV	246575	351497	4.99%	0.363%
56	12.543	2006	2011	2015	rBV3	209631	279613	3.97%	0.289%
57	12.586	2015	2019	2023	rVB2	208287	269660	3.83%	0.278%
58	12.736	2044	2047	2052	rVB5	68317	113944	1.62%	0.118%
59	12.934	2081	2084	2092	rVB4	127360	247451	3.52%	0.255%
60	13.067	2105	2109	2114	rVB	386191	479447	6.81%	0.495%
61	13.222	2132	2138	2141	rBV	257300	397619	5.65%	0.410%
62	13.265	2143	2146	2149	rVV	218953	333465	4.74%	0.344%
63	13.292	2149	2151	2157	rVV3	245713	332003	4.72%	0.343%
64	13.340	2157	2160	2166	rVB3	182246	263702	3.75%	0.272%
65	13.410	2168	2173	2178	rVB	322176	429175	6.10%	0.443%
66	13.495	2185	2189	2194	rVB	147441	210477	2.99%	0.217%
67	13.640	2205	2216	2219	rBV2	3847429	7037192	100.00%	7.263%
68	13.672	2219	2222	2230	rVB2	1876884	2447379	34.78%	2.526%
69	13.736	2231	2234	2238	rVB3	81210	98038	1.39%	0.101%
70	13.784	2239	2243	2248	rVB	252890	313506	4.45%	0.324%
71	13.843	2249	2254	2256	rBV3	151107	230286	3.27%	0.238%
72	13.960	2273	2276	2284	rVB3	149458	291517	4.14%	0.301%
73	14.041	2286	2291	2296	rVV3	171300	265769	3.78%	0.274%
74	14.271	2328	2334	2339	rBV	306158	473259	6.73%	0.488%
75	14.324	2340	2344	2347	rVB	151356	183989	2.61%	0.190%
76	14.362	2348	2351	2354	rBV4	89394	111626	1.59%	0.115%
77	14.527	2379	2382	2386	rVB5	104315	128111	1.82%	0.132%
78	14.608	2394	2397	2404	rVB5	101949	156447	2.22%	0.161%
79	14.677	2406	2410	2412	rBV3	204050	268361	3.81%	0.277%
80	14.790	2428	2431	2435	rBV3	96033	116235	1.65%	0.120%
81	15.014	2469	2473	2479	rBV2	143249	308551	4.38%	0.318%
82	15.239	2508	2515	2519	rBV	1844330	3414083	48.51%	3.524%
83	15.346	2530	2535	2537	rBV3	277431	395874	5.63%	0.409%
84	15.373	2538	2540	2545	rVB	305294	316383	4.50%	0.327%
85	15.608	2577	2584	2590	rBV2	1400521	2548030	36.21%	2.630%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

86	15.672	2590	2596	2604	rVB	1738496	2547695	36.20%	2.630%
87	15.758	2605	2612	2616	rBV2	3122882	4363045	62.00%	4.503%
88	16.116	2677	2679	2683	rBV4	133387	161432	2.29%	0.167%
89	16.260	2701	2706	2711	rBV2	421849	680548	9.67%	0.702%
90	16.464	2739	2744	2746	rBV3	423327	620594	8.82%	0.641%
91	16.496	2746	2750	2756	rVB	846617	1201804	17.08%	1.240%
92	16.565	2759	2763	2771	rVV6	163567	343594	4.88%	0.355%
93	16.833	2809	2813	2818	rVB4	355488	494549	7.03%	0.510%
94	16.982	2837	2841	2846	rVB3	252717	428458	6.09%	0.442%
95	17.122	2862	2867	2879	rVB2	973018	2245490	31.91%	2.318%
96	17.475	2927	2933	2942	rBV	898761	1471937	20.92%	1.519%
97	17.672	2965	2970	2989	rVB7	711984	2286188	32.49%	2.360%
98	18.020	3031	3035	3045	rVB8	365594	817745	11.62%	0.844%
99	18.448	3109	3115	3122	rVB4	405911	823638	11.70%	0.850%
100	19.154	3240	3247	3260	rVB2	771163	1988113	28.25%	2.052%

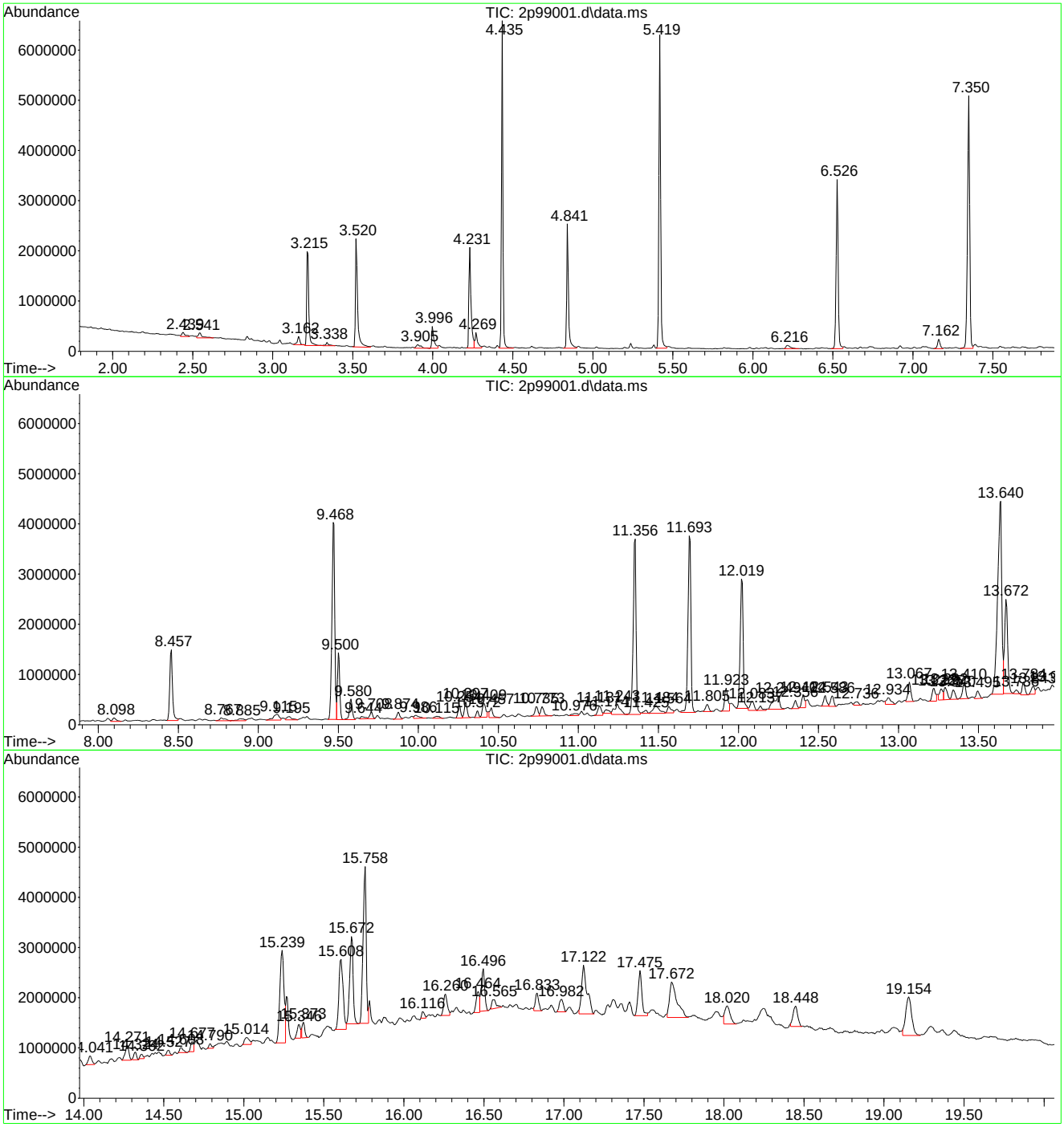
Sum of corrected areas: 96885046

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

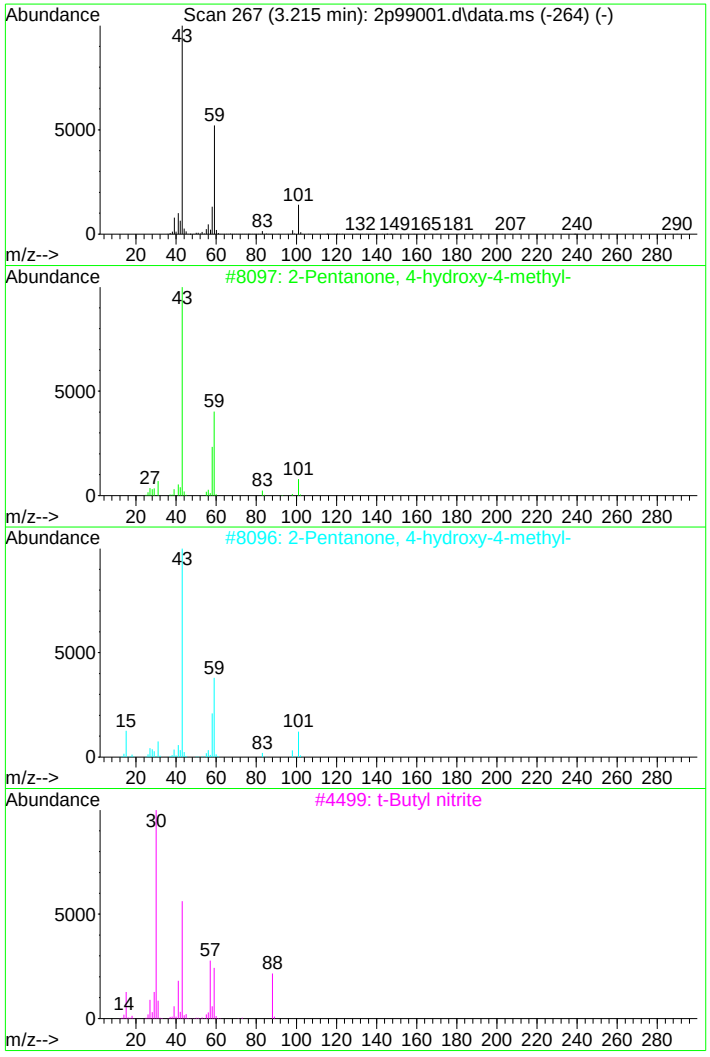
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

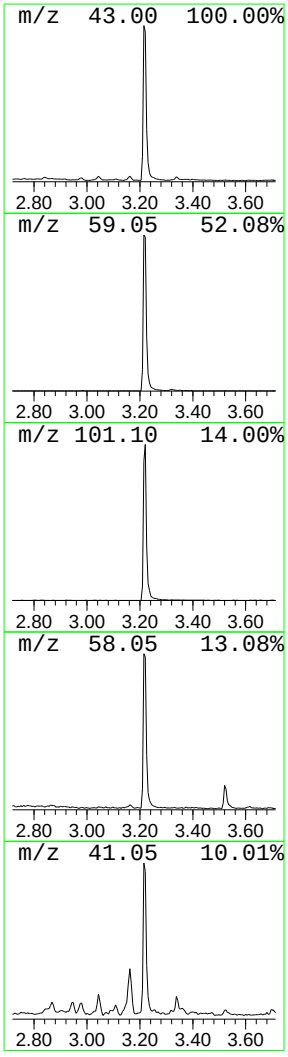
****

Peak Number 1 System artifact/aldol-conde... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.215	16.23 ppm	1667610	1,4-Dichlorobenzene-d4a	4.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	t-Butyl nitrite	103	C4H9NO2	000540-80-7	39
4	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
5	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	23





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

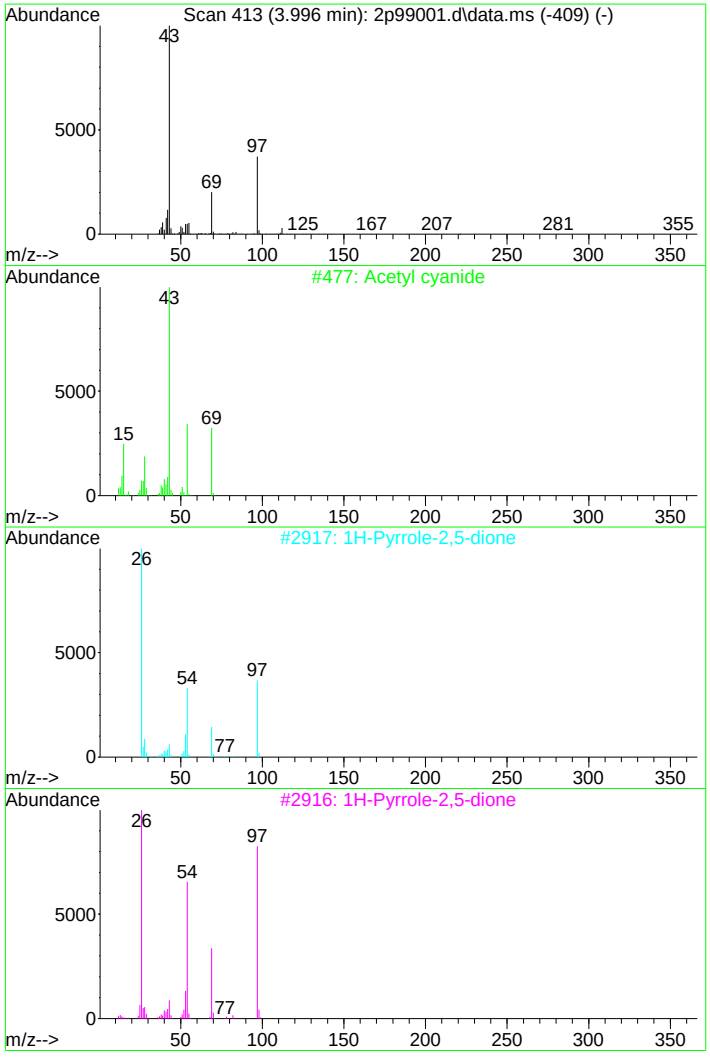
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

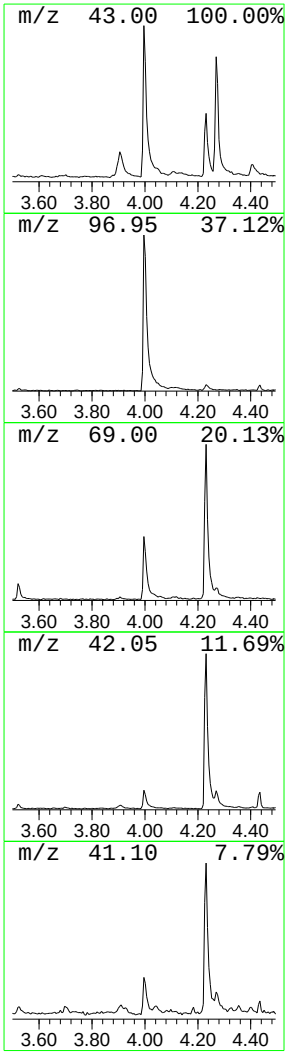
****

Peak Number 2 Unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.996	4.20 ppm	431180	1,4-Dichlorobenzene-d4a	4.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetyl cyanide	69	C3H3NO	000631-57-2	9
2	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	9
3	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	9
4	4-Penten-2-one, 4-methyl-	98	C6H10O	003744-02-3	7
5	2-Propyn-1-ol, acetate	98	C5H6O2	000627-09-8	5





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

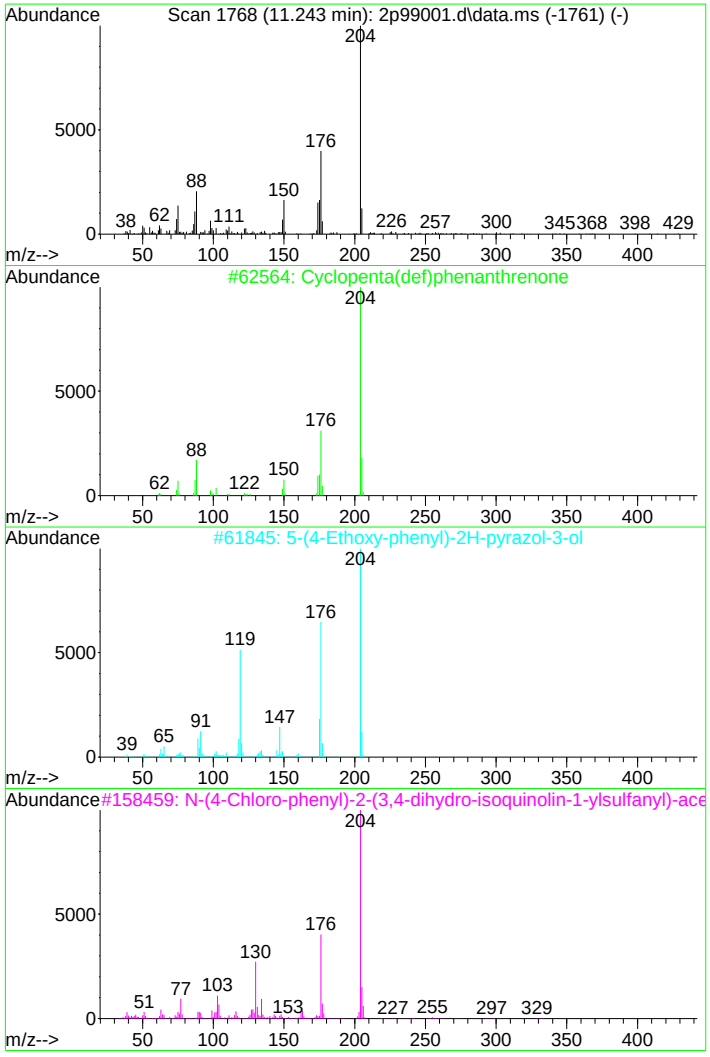
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

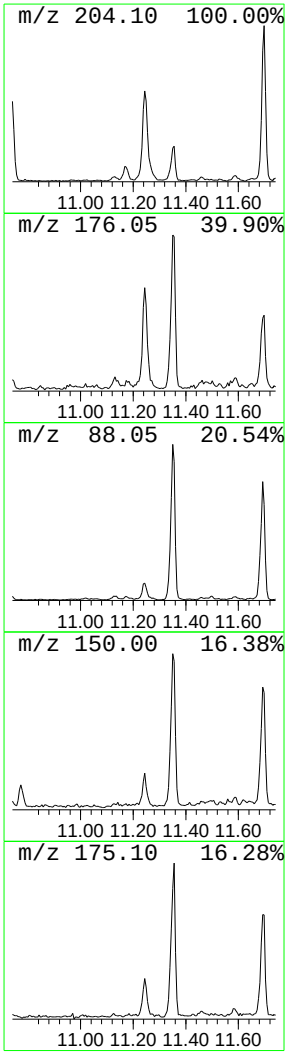
****

Peak Number 3 Cyclopentaphenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.243	4.25 ppm	517763	Phenanthrene-d10b	9.468

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	91
2	5-(4-Ethoxy-phenyl)-2H-pyrazol-3-ol	204	C11H12N2O2	1000278-26-8	53
3	N-(4-Chloro-phenyl)-2-(3,4-dihyd...	330	C17H15ClN2OS	1000296-34-3	40
4	Propanedinitrile, 2,2'-(2,5-cycl...	204	C12H4N4	001518-16-7	38
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	38





Library Search Compound Report

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Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On    : 15 Jan 2021  10:09 pm
Operator  : hennys
Sample    : jd18939-3
Misc      : op31540,e2p4412,31.6,,,1,1
ALS Vial  : 21   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

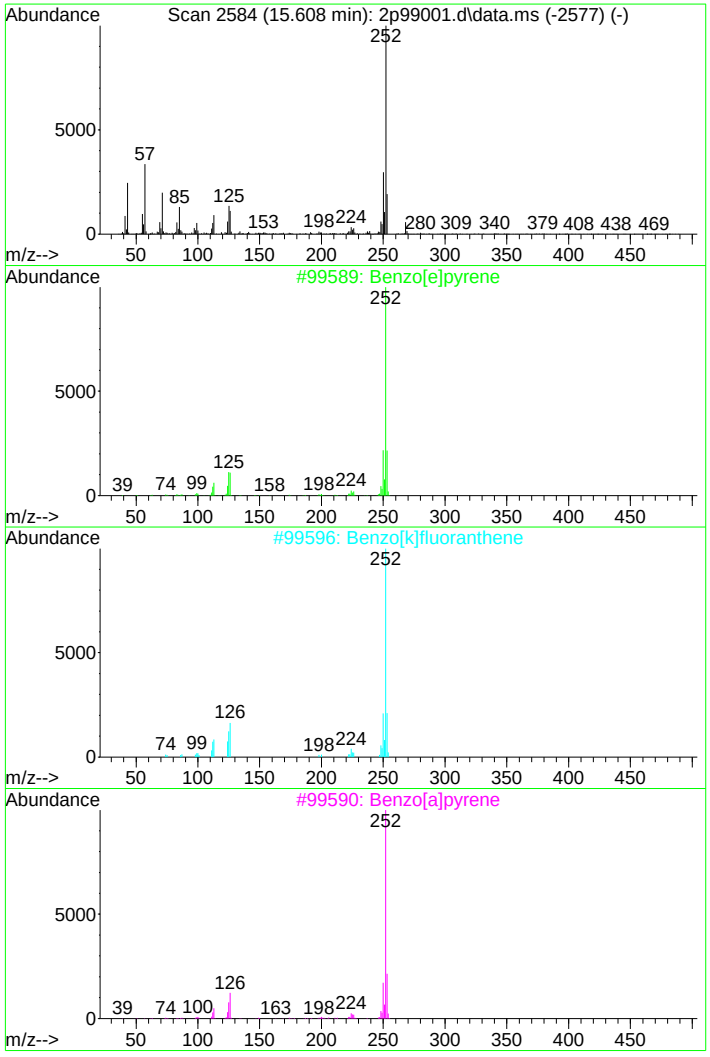
TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

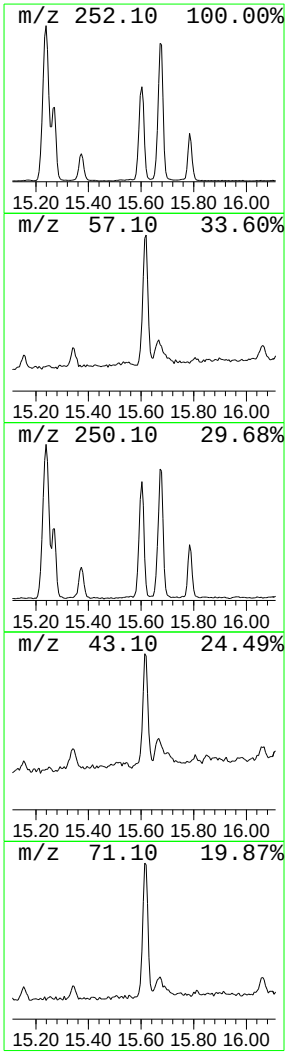
****

Peak Number 4 Unknown PAH substance Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.608	23.36 ppm	2548030	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benzo[a]pyrene	252	C20H12	000050-32-8	95
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

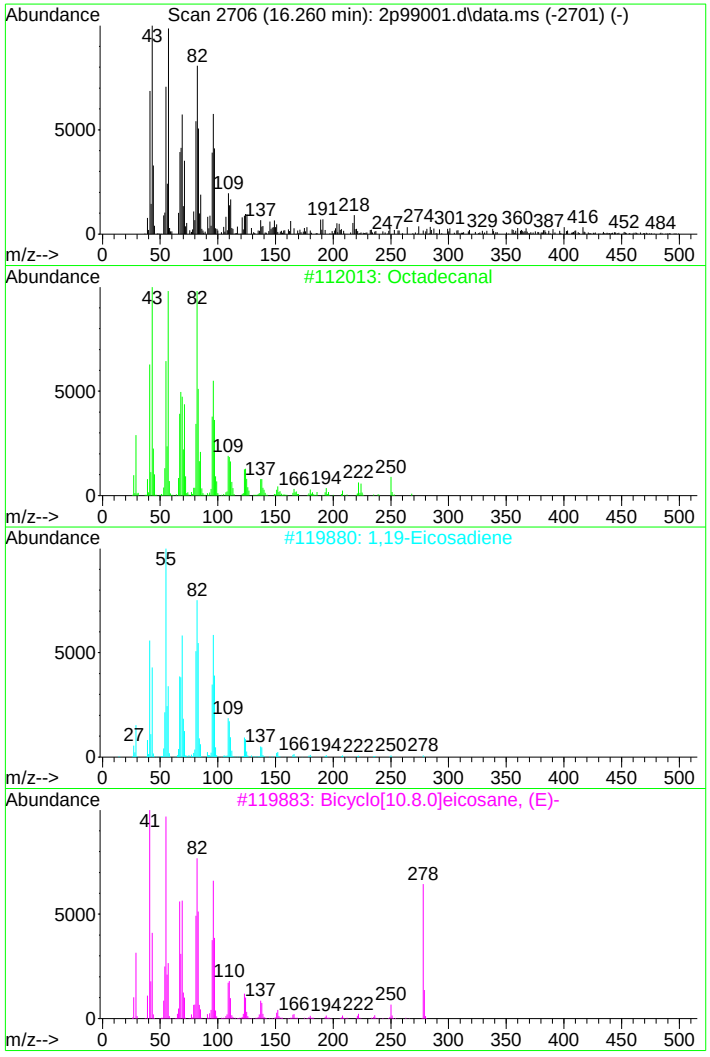
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

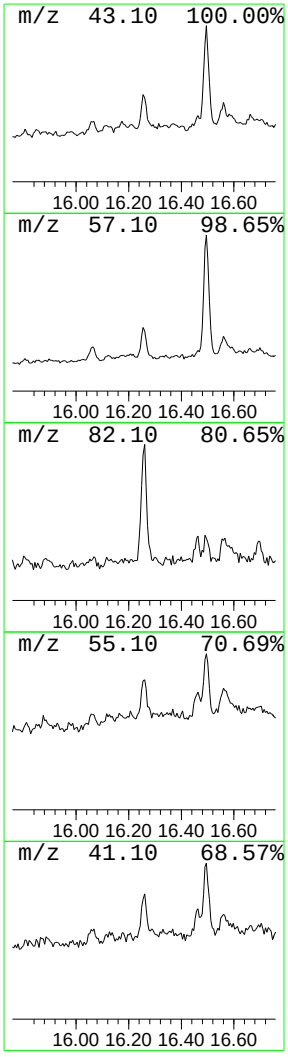
****

Peak Number 5 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.260	6.24 ppm	680548	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanal	268	C18H36O	000638-66-4	91
2	1,19-Eicosadiene	278	C20H38	014811-95-1	91
3	Bicyclo[10.8.0]eicosane, (E)-	278	C20H38	1000155-85-0	90
4	Carbonic acid, isobutyl undec-10...	270	C16H30O3	1000314-60-8	90
5	Octadecanal	268	C18H36O	000638-66-4	87





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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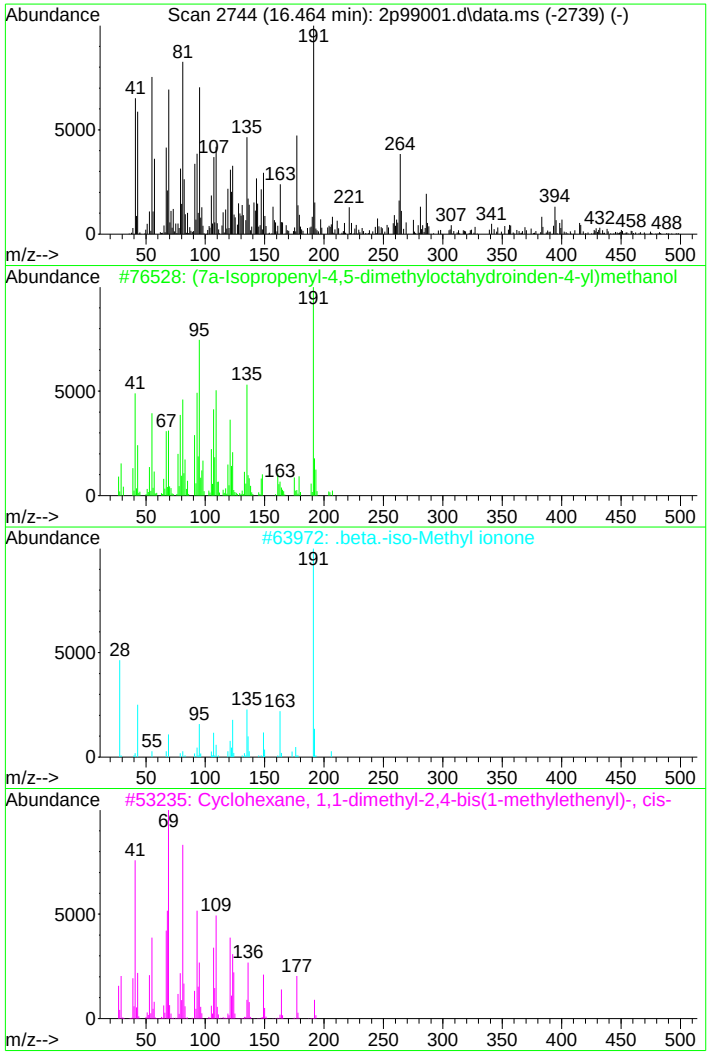
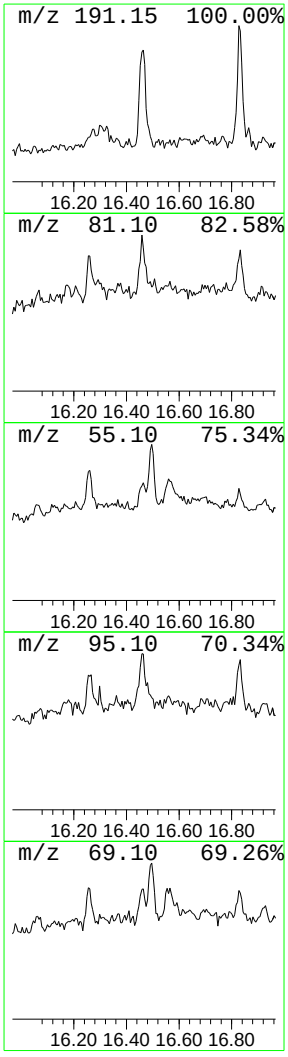
Peak Number 6 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.464	5.69 ppm	620594	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(7a-Isopropenyl-4,5-dimethylocta...	222	C15H26O	1000187-02-9	43
2	.beta.-iso-Methyl ionone	206	C14H22O	1000285-40-2	42
3	Cyclohexane, 1,1-dimethyl-2,4-bi...	192	C14H24	062337-98-8	30
4	Cyclohexane, 3,4-bis(1-methyleth...	192	C14H24	061142-74-3	30
5	Anthracene, 9-(4-methoxybutyl)-	264	C19H20O	144000-76-0	20





Library Search Compound Report

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Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On    : 15 Jan 2021  10:09 pm
Operator  : hennys
Sample    : jd18939-3
Misc      : op31540,e2p4412,31.6,,,1,1
ALS Vial  : 21   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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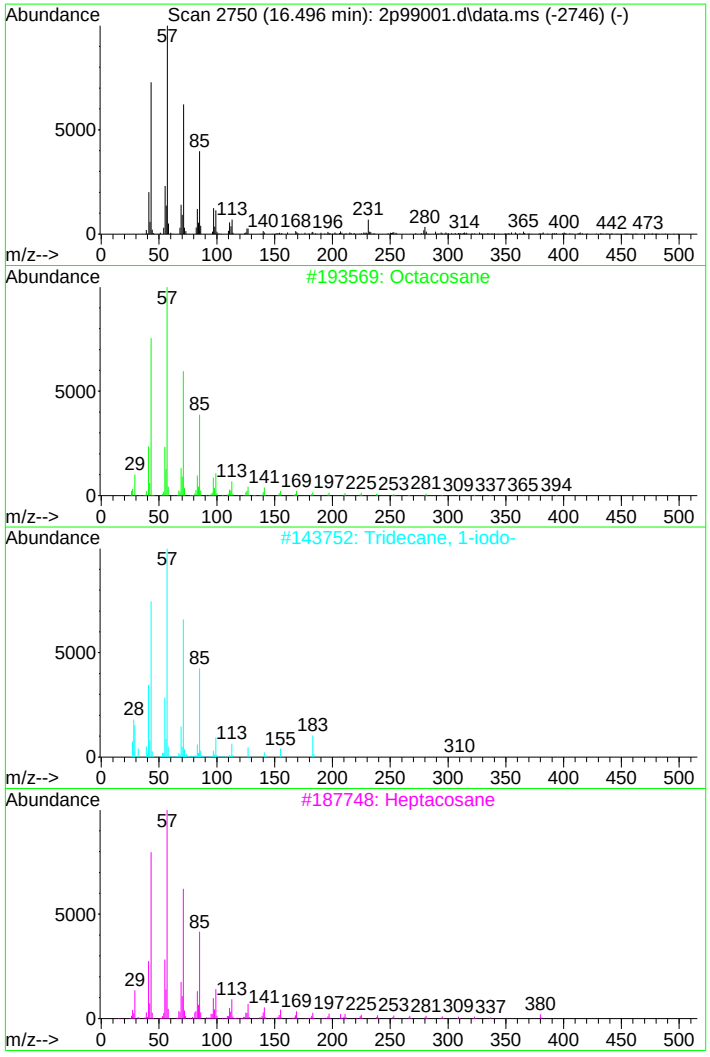
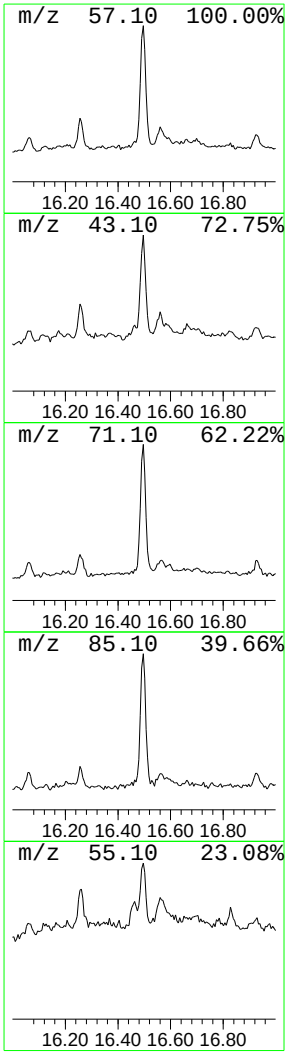
Peak Number 7 Alkane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.496	11.02 ppm	1201800	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	93
2	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	91
3	Heptacosane	380	C27H56	000593-49-7	90
4	Tetratetracontane	619	C44H90	007098-22-8	87
5	Hexacosane, 9-octyl-	479	C34H70	055429-83-9	87





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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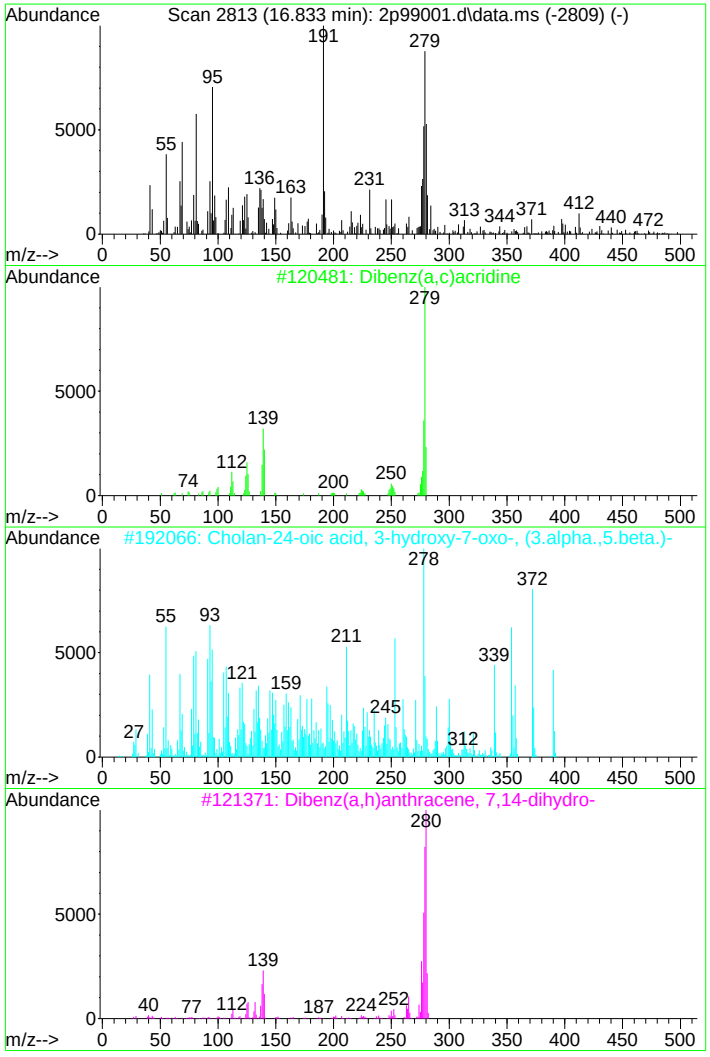
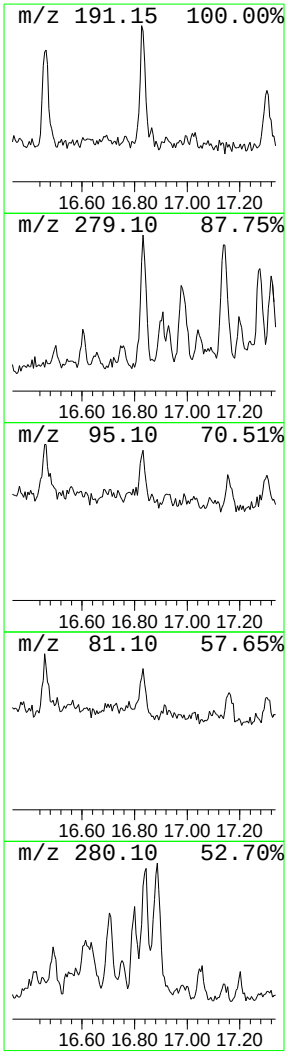
Peak Number 8 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.833	4.53 ppm	494549	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz(a,c)acridine	279	C21H13N	000215-62-3	30
2	Cholan-24-oic acid, 3-hydroxy-7-...	390	C24H38O4	004651-67-6	25
3	Dibenz(a,h)anthracene, 7,14-dihy...	280	C22H16	057816-08-7	25
4	Cinnamic acid, 3,4-dimethoxy-, t...	280	C14H20O4Si	027750-71-6	22
5	Dibenz(a,h)acridine	279	C21H13N	000226-36-8	20





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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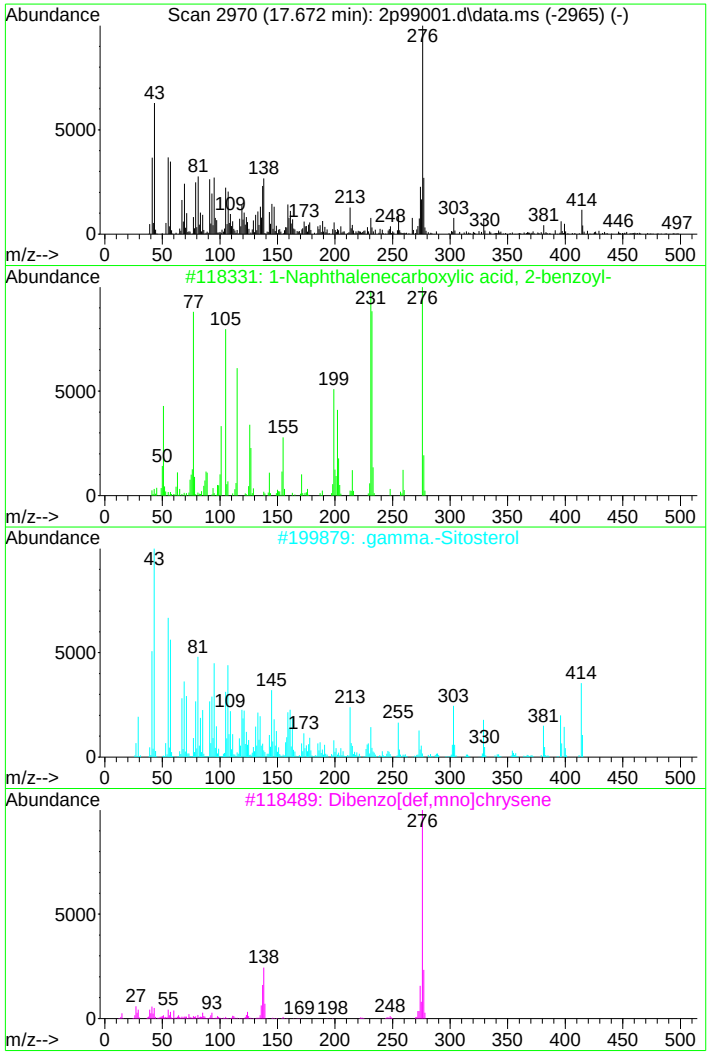
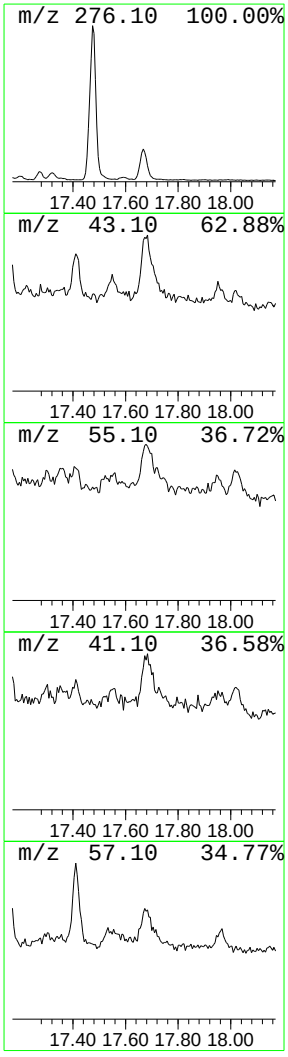
Peak Number 9 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.672	20.96 ppm	2286190	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenecarboxylic acid, 2-...	276	C18H12O3	038119-11-8	94
2	.gamma.-Sitosterol	414	C29H50O	000083-47-6	91
3	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	91
4	Benzo[ghi]perylene	276	C22H12	000191-24-2	64
5	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	64





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

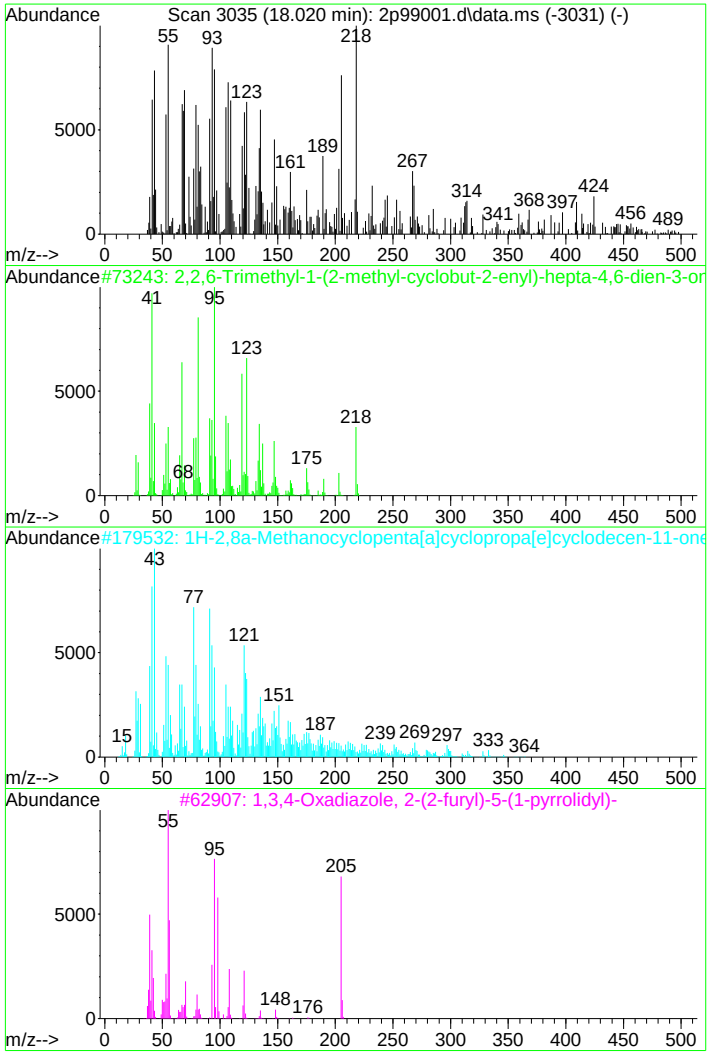
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

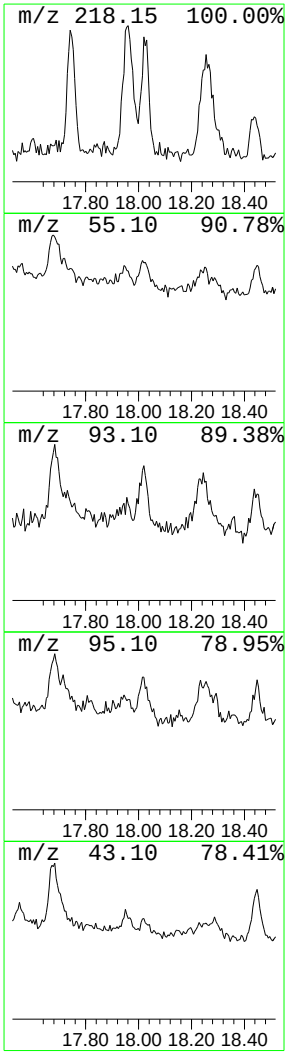
****

Peak Number 10 Unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.020	7.50 ppm	817745	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2,6-Trimethyl-1-(2-methyl-cycl...	218	C15H22O	1000188-72-8	42
2	1H-2,8a-Methanocyclopenta[a]cycl...	364	C20H28O6	052557-29-6	37
3	1,3,4-Oxadiazole, 2-(2-furyl)-5-...	205	C10H11N3O2	284674-14-2	35
4	4,4,6a,6b,8a,11,11,14b-Octamethy...	424	C30H48O	1000194-62-4	22
5	Cyclopropanecarboxamide, 2,2-dib...	337	C11H17Br2NO	1000263-98-9	22





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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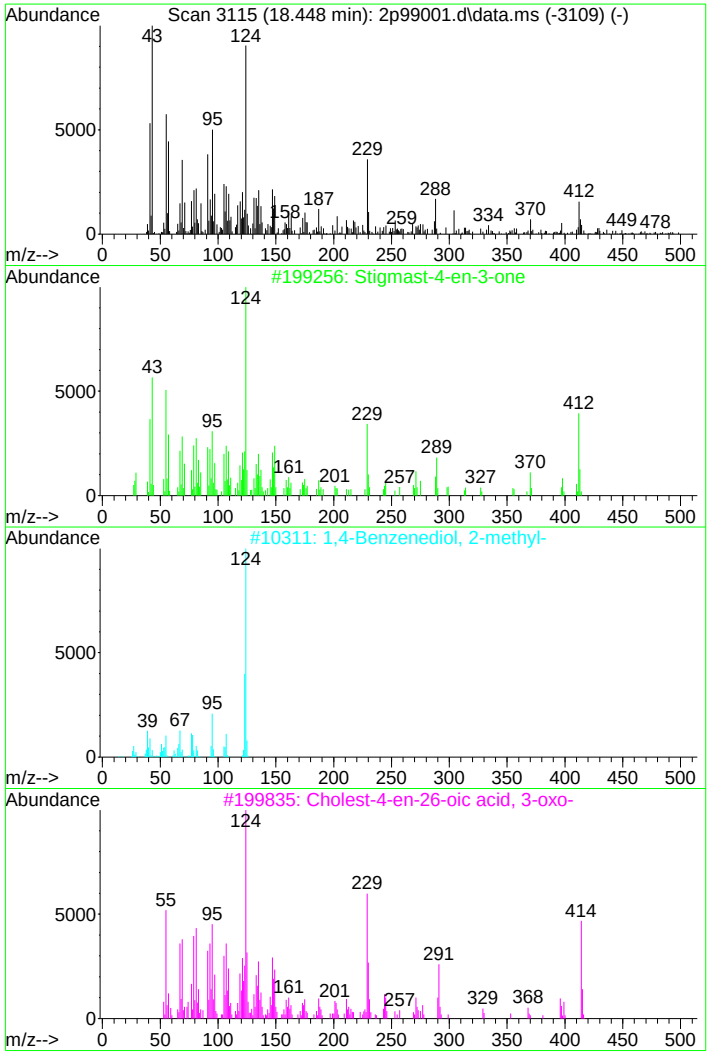
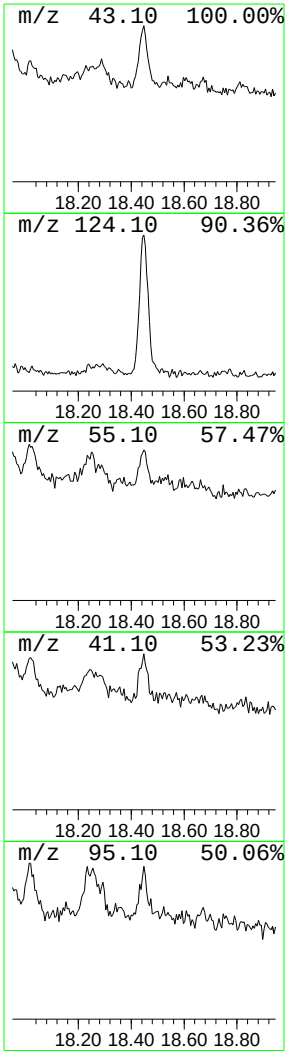
Peak Number 11 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.448	7.55 ppm	823638	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	72
2	1,4-Benzenediol, 2-methyl-	124	C7H8O2	000095-71-6	55
3	Cholest-4-en-26-oic acid, 3-oxo-	414	C27H42O3	023017-97-2	53
4	Testosterone	288	C19H28O2	000058-22-0	50
5	Testosterone	288	C19H28O2	000058-22-0	49





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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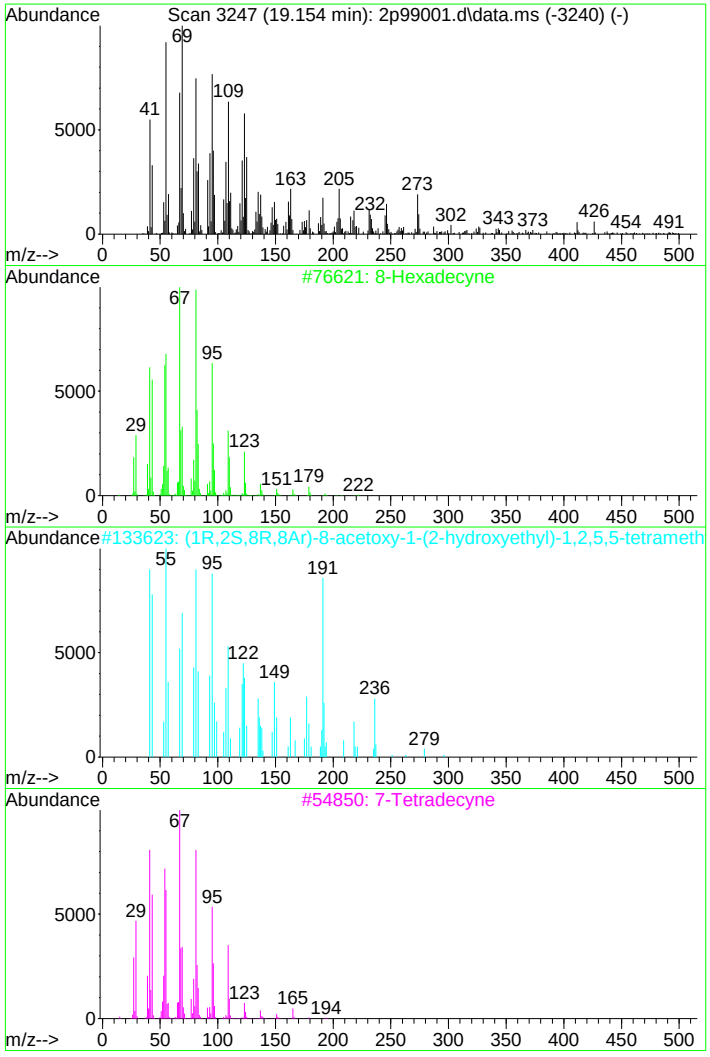
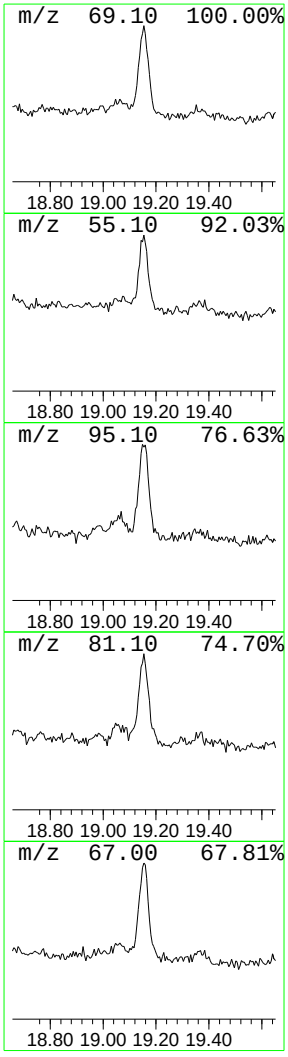
Peak Number 12 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.154	18.23 ppm	1988110	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8-Hexadecyne	222	C16H30	019781-86-3	86
2	(1R,2S,8R,8Ar)-8-acetoxy-1-(2-hy...	296	C18H32O3	1000298-98-4	70
3	7-Tetradecyne	194	C14H26	035216-11-6	64
4	7-Tetradecyne	194	C14H26	035216-11-6	58
5	7-Tetradecyne	194	C14H26	035216-11-6	58





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact...	3.215	16.2	ppm	1667610	2	4.435	4108910	40.0
Unknown	3.996	4.2	ppm	431180	2	4.435	4108910	40.0
Cyclopentaphena...	11.243	4.3	ppm	517763	11	9.468	4878140	40.0
Unknown PAH sub...	15.608	23.4	ppm	2548030	15	15.758	4363050	40.0
Unknown	16.260	6.2	ppm	680548	15	15.758	4363050	40.0
Unknown	16.464	5.7	ppm	620594	15	15.758	4363050	40.0
Alkane	16.496	11.0	ppm	1201800	15	15.758	4363050	40.0
Unknown	16.833	4.5	ppm	494549	15	15.758	4363050	40.0
Unknown	17.672	21.0	ppm	2286190	15	15.758	4363050	40.0
Unknown	18.020	7.5	ppm	817745	15	15.758	4363050	40.0
Unknown	18.448	7.5	ppm	823638	15	15.758	4363050	40.0
Unknown	19.154	18.2	ppm	1988110	15	15.758	4363050	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1 Inst : MS2P
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 03:21:22 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

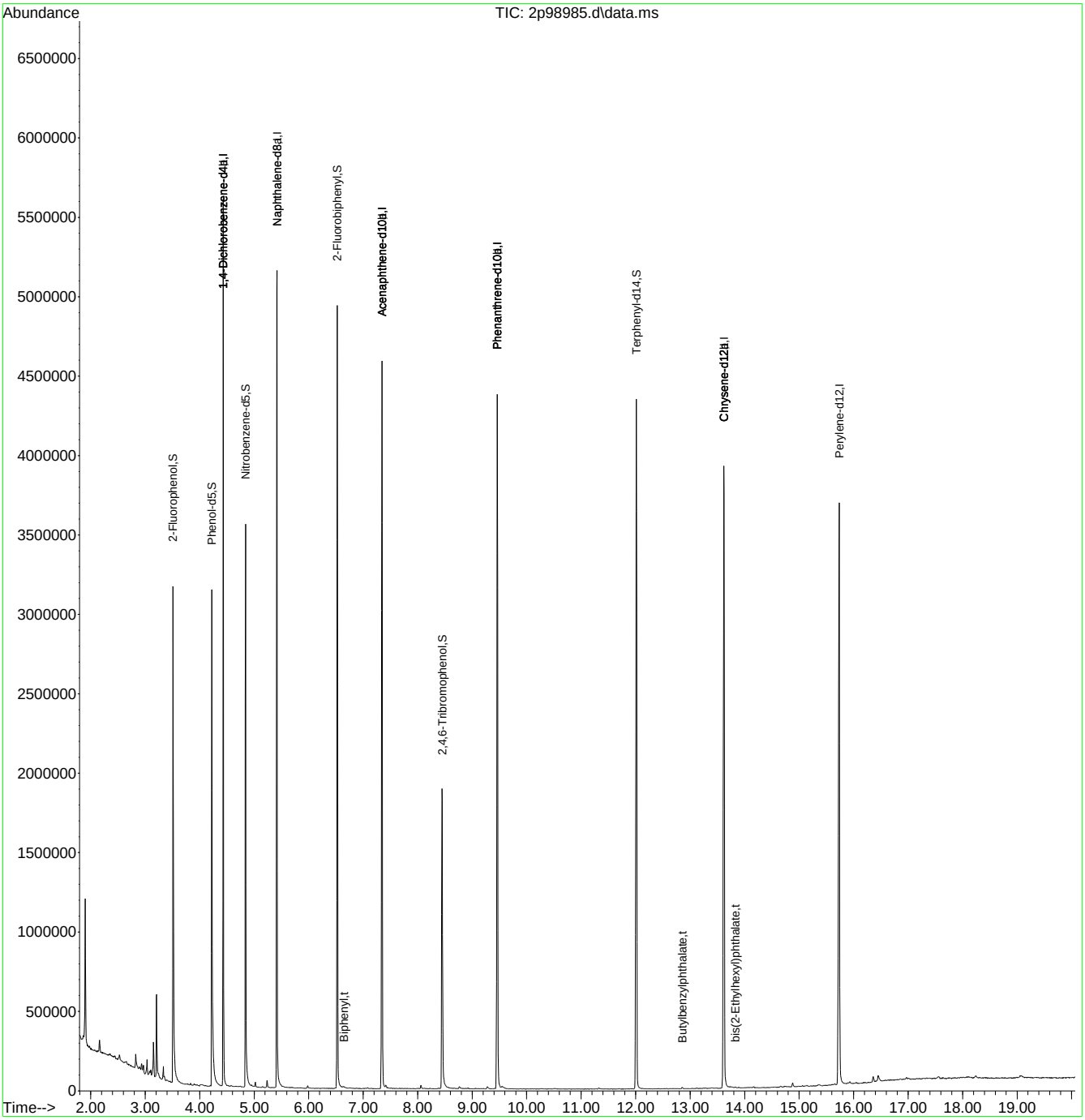
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.429	152	459581	40.00	ppm	0.00
24) Naphthalene-d8	5.418	136	1663653	40.00	ppm	0.00
47) Acenaphthene-d10	7.344	164	836454	40.00	ppm	0.00
69) Phenanthrene-d10	9.462	188	1586317	40.00	ppm	0.00
83) Chrysene-d12	13.618	240	1674443	40.00	ppm	0.00
91) Perylene-d12	15.736	264	1720024	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.429	152	459581	40.00	ppm	0.00
103) Naphthalene-d8a	5.418	136	1663653	40.00	ppm	0.00
105) Acenaphthene-d10a	7.344	164	836454	40.00	ppm	0.00
107) Chrysene-d12a	13.618	240	1674443	40.00	ppm	0.00
109) Phenanthrene-d10a	9.462	188	1586317	40.00	ppm	0.00
112) 1,4-Dichlorobenzene-d4b	4.429	152	459581	40.00	ppm	0.00
115) Acenaphthene-d10b	7.344	164	836454	40.00	ppm	0.00
117) Phenanthrene-d10b	9.462	188	1586317	40.00	ppm	0.00
120) Chrysene-d12b	13.618	240	1674443	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.509	112	552254	35.26	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 70.52%#			
8) Phenol-d5	4.220	99	699559	35.27	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 70.54%#			
25) Nitrobenzene-d5	4.841	82	835923	44.76	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 89.52%#			
51) 2-Fluorobiphenyl	6.526	172	1172124	42.60	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 85.20%#			
73) 2,4,6-Tribromophenol	8.451	330	226553	39.49	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 78.98%#			
85) Terphenyl-d14	12.013	244	1638211	42.02	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 84.04%#			
118) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
119) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
Target Compounds						Qvalue
53) Biphenyl	6.643	154	2570	0.08	ppm	85
86) Butylbenzylphthalate	12.853	149	2601	0.11	ppm	77
90) bis(2-Ethylhexyl)phtha...	13.827	149	1902	0.06	ppm	90

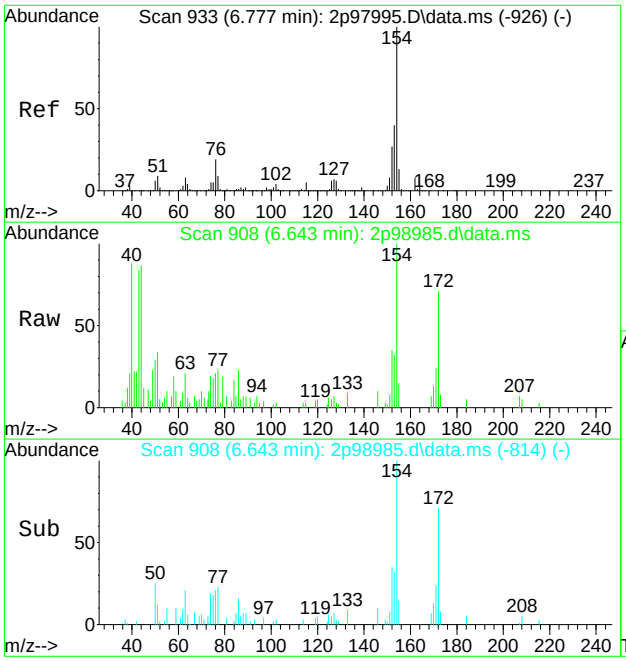
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1 Inst : MS2P
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 03:21:22 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

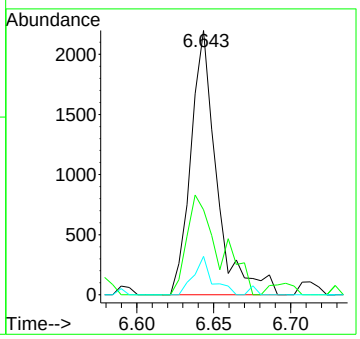


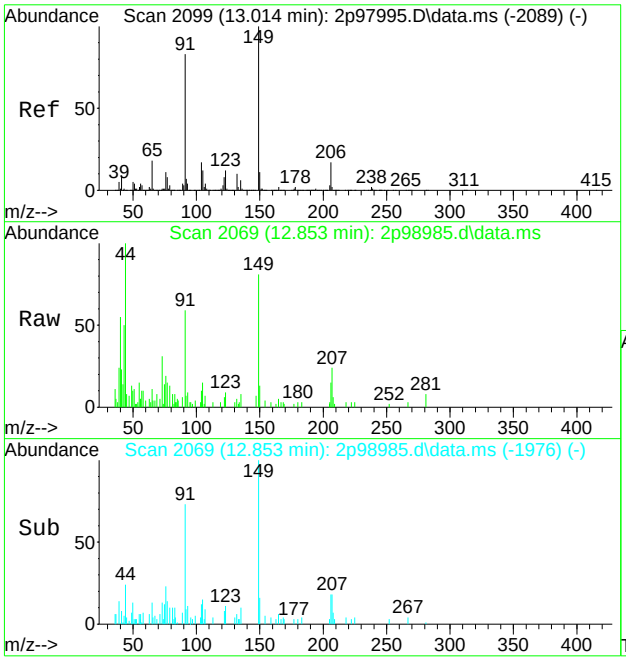


#53
Biphenyl
Concen: 0.08 ppm
RT: 6.643 min Scan# 908
Delta R.T. 0.005 min
Lab File: 2p98985.d
Acq: 15 Jan 2021 2:46 pm

Tgt Ion:154 Resp: 2570

Ion	Ratio	Lower	Upper
154	100		
153	29.9	11.2	71.2
155	14.5	0.0	42.9

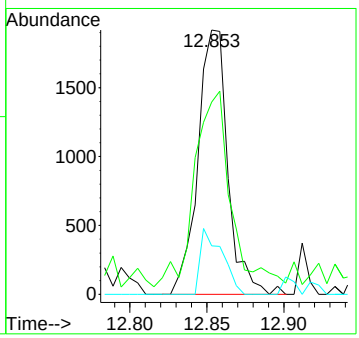


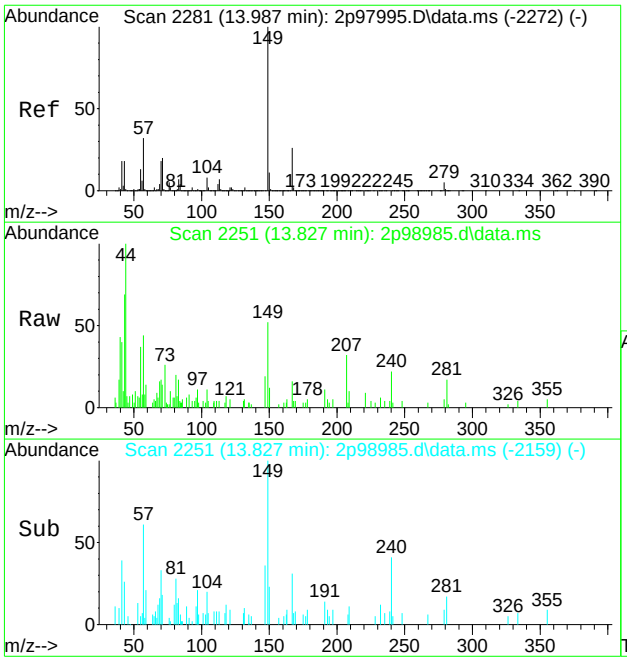


#86
Butylbenzylphthalate
Concen: 0.11 ppm
RT: 12.853 min Scan# 2069
Delta R.T. 0.000 min
Lab File: 2p98985.d
Acq: 15 Jan 2021 2:46 pm

Tgt Ion:149 Resp: 2601

Ion	Ratio	Lower	Upper
149	100		
91	67.5	62.4	122.4
206	15.0	0.0	46.8

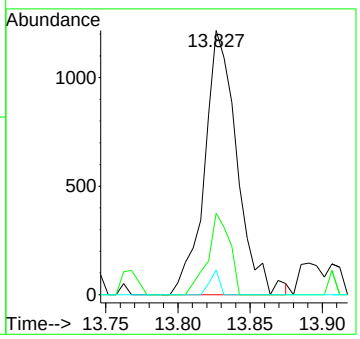




#90
bis(2-Ethylhexyl)phthalate
Concen: 0.06 ppm
RT: 13.827 min Scan# 2251
Delta R.T. -0.005 min
Lab File: 2p98985.d
Acq: 15 Jan 2021 2:46 pm

Tgt Ion:149 Resp: 1902

Ion	Ratio	Lower	Upper
149	100		
167	31.5	0.0	56.5
279	9.5	0.0	35.6



7.2.1

7

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p98985.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.899	16	21	34	rVB	937405	941889	18.13%	1.829%
2	2.161	68	70	76	rVB2	76497	65404	1.26%	0.127%
3	2.525	136	138	154	rVB3	50182	93878	1.81%	0.182%
4	2.824	191	194	203	rVB3	91127	118217	2.28%	0.230%
5	2.931	211	214	217	rVV2	39536	40267	0.78%	0.078%
6	2.969	217	221	226	rVB2	55157	68211	1.31%	0.132%
7	3.033	227	233	237	rVB2	95644	94219	1.81%	0.183%
8	3.081	239	242	244	rBV4	17219	14978	0.29%	0.029%
9	3.103	244	246	248	rVB	32891	23710	0.46%	0.046%
10	3.151	249	255	260	rVB	218777	242542	4.67%	0.471%
11	3.210	261	266	282	rVB	535019	591211	11.38%	1.148%
12	3.333	284	289	298	rVB2	90989	115193	2.22%	0.224%
13	3.391	298	300	309	rVB6	12915	28029	0.54%	0.054%
14	3.509	318	322	362	rVB	3134099	2872932	55.31%	5.580%
15	3.835	380	383	387	rVB4	12726	12178	0.23%	0.024%
16	3.899	392	395	403	rVV7	11272	18506	0.36%	0.036%
17	3.953	403	405	413	rVB7	9257	14545	0.28%	0.028%
18	4.033	413	420	429	rBV5	10172	36533	0.70%	0.071%
19	4.108	433	434	438	rVB4	5776	4398	0.08%	0.009%
20	4.220	447	455	486	rBV	3126932	2858798	55.04%	5.553%
21	4.429	490	494	507	rBV	5581909	3741950	72.04%	7.268%
22	4.579	518	522	526	rVB5	5735	8795	0.17%	0.017%
23	4.750	549	554	557	rVB6	5618	8315	0.16%	0.016%
24	4.841	564	571	589	rBV	3545449	2847782	54.83%	5.531%
25	5.023	602	605	610	rVB	32698	29081	0.56%	0.056%
26	5.146	625	628	638	rVB10	6638	14877	0.29%	0.029%
27	5.237	638	645	650	rBV	46585	46561	0.90%	0.090%
28	5.418	669	679	708	rBV	5145735	4498110	86.60%	8.737%
29	5.718	733	735	741	rVB7	4213	5106	0.10%	0.010%
30	5.980	778	784	790	rBV2	17063	21581	0.42%	0.042%
31	6.130	808	812	815	rBV5	3124	4914	0.09%	0.010%
32	6.526	870	886	900	rBV	4931479	4264833	82.11%	8.284%
33	6.638	905	907	912	rVB6	7687	10515	0.20%	0.020%
34	6.750	923	928	932	rVB8	3004	4444	0.09%	0.009%
35	7.044	978	983	985	rBV6	2907	4548	0.09%	0.009%
36	7.082	985	990	996	rVV5	7491	11369	0.22%	0.022%
37	7.146	997	1002	1007	rVB8	3725	6299	0.12%	0.012%
38	7.344	1033	1039	1049	rBV2	4582612	4580766	88.19%	8.897%
39	7.414	1049	1052	1057	rVV5	20648	29870	0.58%	0.058%
40	7.446	1057	1058	1065	rVB7	5436	5120	0.10%	0.010%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

41	8.061	1166	1173	1180	rBV4	21306	26951	0.52%	0.052%
42	8.120	1180	1184	1189	rVB8	3536	5805	0.11%	0.011%
43	8.227	1199	1204	1211	rVB9	4661	8066	0.16%	0.016%
44	8.376	1224	1232	1233	rBV7	4255	5595	0.11%	0.011%
45	8.446	1238	1245	1264	rBV	1888113	2305151	44.38%	4.477%
46	8.670	1281	1287	1291	rVB9	3866	7408	0.14%	0.014%
47	8.767	1301	1305	1315	rBV4	13284	23111	0.44%	0.045%
48	8.917	1330	1333	1339	rVB8	4636	5362	0.10%	0.010%
49	9.056	1355	1359	1366	rVB9	3339	5794	0.11%	0.011%
50	9.200	1383	1386	1393	rVB9	3600	6794	0.13%	0.013%
51	9.280	1395	1401	1410	rBV4	14586	26860	0.52%	0.052%
52	9.414	1422	1426	1428	rBV4	4095	5162	0.10%	0.010%
53	9.462	1428	1435	1447	rVV2	4372294	4815948	92.72%	9.354%
54	9.548	1447	1451	1460	rVB6	13231	33688	0.65%	0.065%
55	9.885	1508	1514	1521	rVB6	3140	6072	0.12%	0.012%
56	9.943	1521	1525	1530	rVB7	4213	6412	0.12%	0.012%
57	10.002	1533	1536	1539	rBV5	3782	5689	0.11%	0.011%
58	10.500	1620	1629	1630	rBV7	3393	4994	0.10%	0.010%
59	10.516	1630	1632	1641	rVB10	4229	9223	0.18%	0.018%
60	10.778	1675	1681	1685	rBV9	3765	5086	0.10%	0.010%
61	11.174	1749	1755	1758	rBV8	3238	5990	0.12%	0.012%
62	11.270	1767	1773	1778	rVB9	2949	6657	0.13%	0.013%
63	11.323	1778	1783	1787	rBV5	8447	12941	0.25%	0.025%
64	11.361	1787	1790	1794	rVB5	3122	4689	0.09%	0.009%
65	11.441	1801	1805	1812	rVB9	2468	4839	0.09%	0.009%
66	11.607	1831	1836	1839	rBV6	3574	6195	0.12%	0.012%
67	11.687	1845	1851	1859	rVB6	4335	8954	0.17%	0.017%
68	12.013	1903	1912	1928	rBV	4343579	5085653	97.92%	9.878%
69	12.120	1930	1932	1939	rVB8	3484	5074	0.10%	0.010%
70	12.564	2011	2015	2022	rBV10	3866	7146	0.14%	0.014%
71	12.853	2061	2069	2076	rBV9	9356	15991	0.31%	0.031%
72	13.040	2098	2104	2107	rBV8	3608	5051	0.10%	0.010%
73	13.121	2117	2119	2125	rVB7	4011	5405	0.10%	0.010%
74	13.276	2146	2148	2155	rVB8	4029	5532	0.11%	0.011%
75	13.468	2181	2184	2192	rVB10	2544	5066	0.10%	0.010%
76	13.618	2202	2212	2227	rBV	3918984	5193908	100.00%	10.088%
77	13.821	2247	2250	2256	rVB7	5574	8739	0.17%	0.017%
78	13.891	2261	2263	2270	rVB8	5126	5512	0.11%	0.011%
79	14.105	2300	2303	2310	rVV9	2760	6303	0.12%	0.012%
80	14.164	2310	2314	2318	rVB7	8723	13024	0.25%	0.025%
81	14.495	2369	2376	2379	rBV9	3272	5966	0.11%	0.012%
82	14.661	2403	2407	2415	rBV9	7499	15926	0.31%	0.031%
83	14.741	2415	2422	2423	rBV6	7237	10831	0.21%	0.021%
84	14.880	2441	2448	2456	rBV5	27538	42924	0.83%	0.083%
85	14.993	2463	2469	2470	rBV5	4537	7384	0.14%	0.014%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

86	15.062	2478	2482	2487	rVB7	6169	8854	0.17%	0.017%
87	15.142	2488	2497	2504	rVV7	6927	15598	0.30%	0.030%
88	15.217	2506	2511	2514	rVV7	3516	5094	0.10%	0.010%
89	15.362	2527	2538	2539	rBV10	8655	20574	0.40%	0.040%
90	15.549	2569	2573	2575	rBV5	3755	4485	0.09%	0.009%
91	15.597	2580	2582	2587	rVV6	4875	6799	0.13%	0.013%
92	15.656	2588	2593	2596	rVB7	6774	9041	0.17%	0.018%
93	15.736	2597	2608	2623	rBV	3665301	5008231	96.43%	9.727%
94	15.891	2634	2637	2639	rBV4	6966	7392	0.14%	0.014%
95	15.934	2641	2645	2653	rVB10	12983	20440	0.39%	0.040%
96	16.207	2694	2696	2701	rVB6	5210	7312	0.14%	0.014%
97	16.362	2720	2725	2729	rBV8	35677	51982	1.00%	0.101%
98	16.453	2736	2742	2755	rVV8	37216	87646	1.69%	0.170%
99	16.972	2836	2839	2843	rVB6	9268	9110	0.18%	0.018%
100	19.058	3226	3229	3230	rBV3	9473	7430	0.14%	0.014%

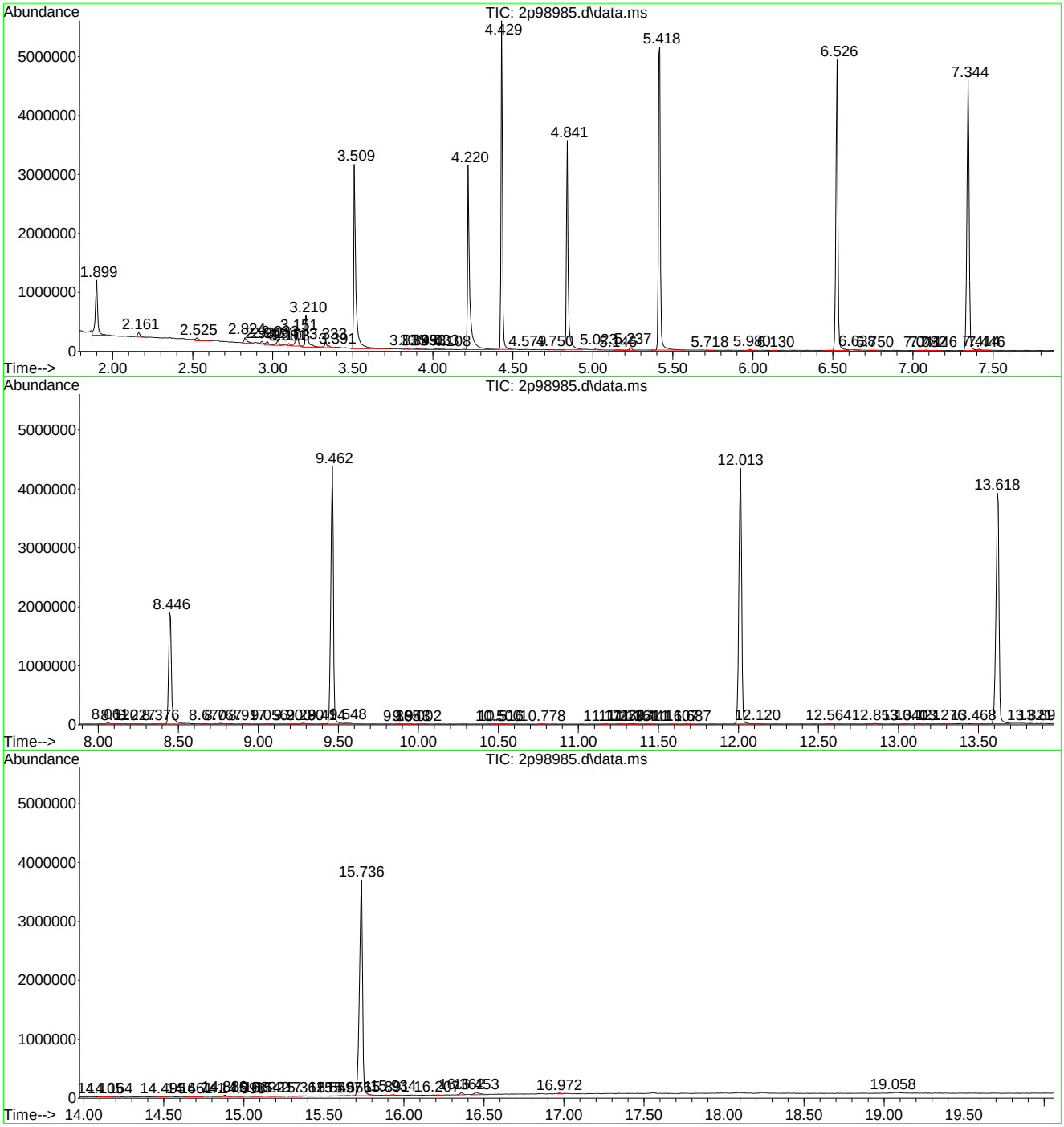
Sum of corrected areas: 51485333

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

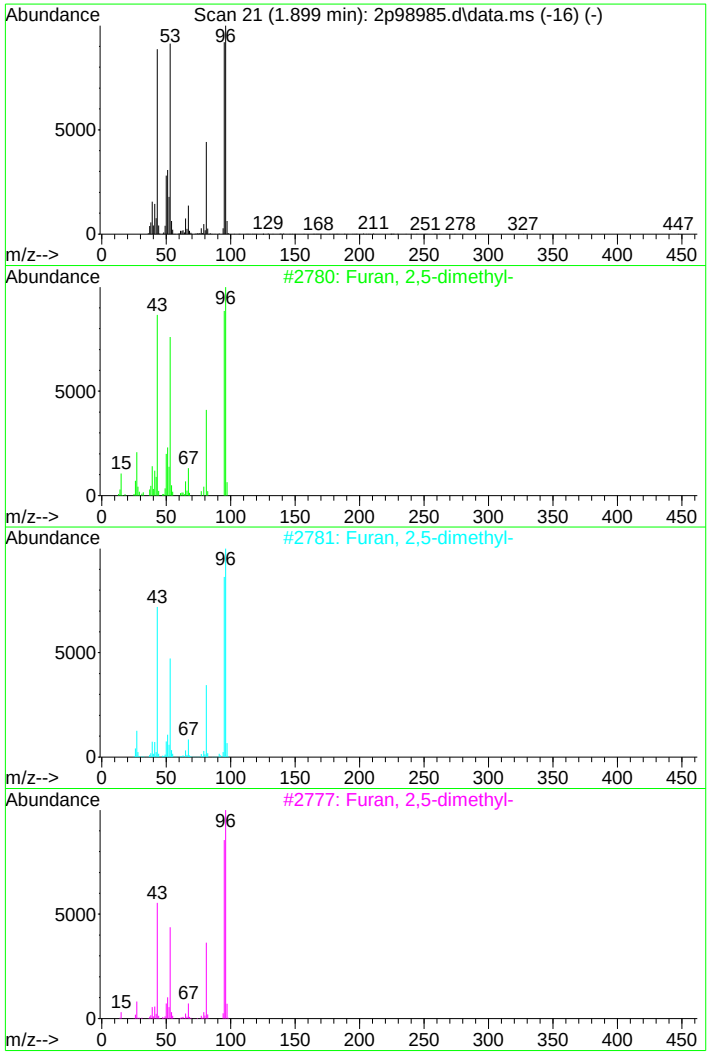
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

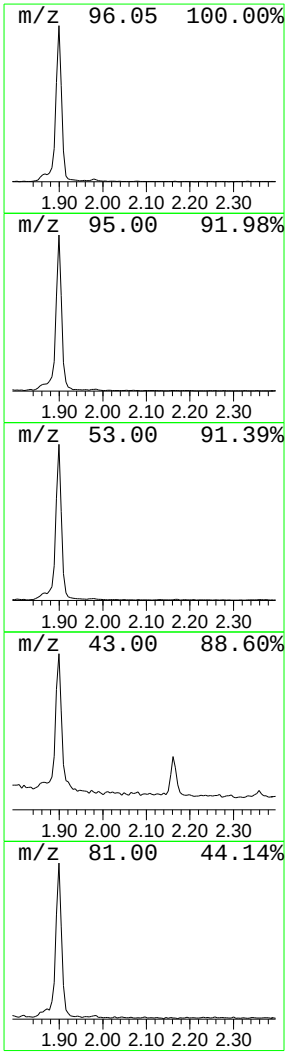
****

Peak Number 1 System artifact Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.899	10.07 ppm	941889	1,4-Dichlorobenzene-d4a	4.429

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	96
2	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	91
3	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	91
4	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	86
5	Furan, 2,4-dimethyl-	96	C6H8O	003710-43-8	78





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

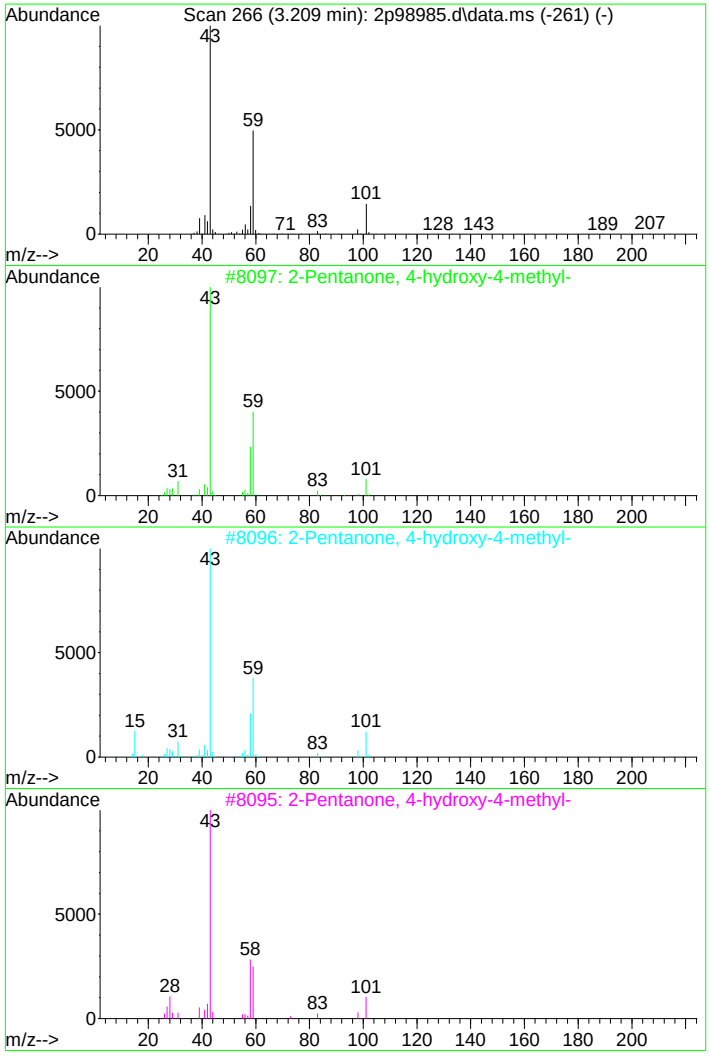
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

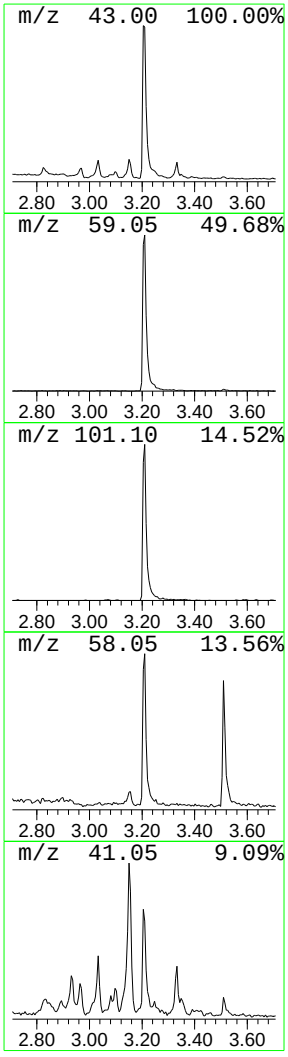
****

Peak Number 2 System artifact/aldol-conde... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.209	6.32 ppm	591211	1,4-Dichlorobenzene-d4a	4.429

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	39
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	28
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact	1.899	10.1	ppm	941889	2	4.429	3741950	40.0
System artifact...	3.209	6.3	ppm	591211	2	4.429	3741950	40.0

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample: JD18939-1 **Analyzed:** 13-JAN-21 by BG **Method:** SM2540 G 18TH ED MOD
ClientID: S-10R

Wet Weight (Total)	31.5	g
Tare Weight	24.39	g
Dry Weight (Total)	30.6	g
Solids, Percent	87.3	%

Sample: JD18939-2 **Analyzed:** 13-JAN-21 by BG **Method:** SM2540 G 18TH ED MOD
ClientID: S-15R

Wet Weight (Total)	33.79	g
Tare Weight	26.58	g
Dry Weight (Total)	32.26	g
Solids, Percent	78.8	%

Sample: JD18939-3 **Analyzed:** 13-JAN-21 by BG **Method:** SM2540 G 18TH ED MOD
ClientID: S-18R

Wet Weight (Total)	31.73	g
Tare Weight	24.6	g
Dry Weight (Total)	29.65	g
Solids, Percent	70.8	%

Table 2a
Ridgewood Water
Bergen County, New Jersey
Semi-Volatile Organic Compound (SVOC) Concentrations in Soil
Water Main Break Spoils Pile - January 12, 2021

Compound	NJDEP Residential Direct Contact Soil Remediation Standard (RDCSRS) [mg/kg]	NJDEP Non-Residential Direct Contact Soil Remediation Standard (NRDCSRS) [mg/kg]	NJDEP Default Impact to Groundwater Soil Screening Level (IGWSSL) [mg/kg]	S-10 R (mg/kg)	S-15 R (mg/kg)	S-18 R (mg/kg)
2-Chlorophenol	*310*	*2,200*	*N/A*	ND	ND	ND
4-Chloro-3-methyl phenol	*N/A*	*N/A*	*N/A*	ND	ND	ND
2,4-Dichlorophenol	*180*	*2,100*	*0.2*	ND	ND	ND
2,4-Dimethylphenol	*1,200*	*14,000*	*1*	ND	ND	ND
2,4-Dinitrophenol	*120*	*1,400*	*0.3*	ND	ND	ND
4,6-Dinitro-o-cresol	*6*	*68*	*0.3*	ND	ND	ND
2-Methylphenol	*310*	*3,400*	*N/A*	ND	ND	ND
3&4-Methylphenol	*31*	*340*	*N/A*	ND	ND	ND
2-Nitrophenol	*N/A*	*N/A*	*N/A*	ND	ND	ND
4-Nitrophenol	*N/A*	*N/A*	*N/A*	ND	ND	ND
Pentachlorophenol	*0.9*	*3*	*0.3*	ND	ND	ND
Phenol	*18,000*	*210,000*	*8*	ND	ND	ND
2,3,4,6-Tetrachlorophenol	*N/A*	*N/A*	*N/A*	ND	ND	ND
2,4,5-Trichlorophenol	*6,100*	*68,000*	*68*	ND	ND	ND
2,4,6-Trichlorophenol	*19*	*74*	*0.2*	ND	ND	ND
Acenaphthene	*3,400*	*37,000*	*74*	ND	0.102	0.0188 J
Acenaphthylene	*N/A*	*300,000*	*N/A*	0.0465	0.0626	0.0657
Acetophenone	*2*	*5*	*3*	ND	ND	ND
Anthracene	*17,000*	*30,000*	*1,500*	0.0456	0.278	0.187
Atrazine	*210*	*2,400*	*0.2*	ND	ND	ND
Benzo(a)anthracene	*5*	*17*	*0.5*	0.218	0.750	0.873
Benzo(a)pyrene	*0.5*	*2*	*0.2*	0.213	0.744*	0.852*
Benzo(b)fluoranthene	*5*	*17*	*2*	0.260	0.986	1.040
Benzo(g,h,i)perylene	*380,000*	*30,000*	*N/A*	0.131	0.511	0.598
Benzo(k)fluoranthene	*45*	*170*	*16*	0.0921	0.302	0.307
4-Bromophenyl phenyl ether	*N/A*	*N/A*	*N/A*	ND	ND	ND
Butyl benzyl phthalate	*1,200*	*14,000*	*230*	ND	ND	ND
1,1'-Biphenyl	*61*	*240*	*140*	ND	0.0112 J	ND
Benzaldehyde	*6,100*	*68,000*	*N/A*	ND	ND	ND
2-Chloronaphthalene	*N/A*	*N/A*	*N/A*	ND	ND	ND
4-Chloroaniline	*N/A*	*N/A*	*N/A*	ND	ND	ND
Carbazole	*24*	*96*	*N/A*	0.0105 J	0.105	0.0542 J
Caprolactam	*31,000*	*340,000*	*12*	ND	ND	ND
Chrysene	*450*	*1,700*	*52*	0.224	0.853	0.852
bis(2-Chloroethoxy)methane	*N/A*	*N/A*	*N/A*	ND	ND	ND
bis(2-Chloroethyl)ether	*0.4*	*2*	*0.2*	ND	ND	ND
2,2'-Oxybis(1-chloropropane)	*23*	*67*	*5*	ND	ND	ND
4-Chlorophenyl phenyl ether	*N/A*	*N/A*	*N/A*	ND	ND	ND
2,4-Dinitrotoluene	*0.7*	*3*	*N/A*	ND	ND	ND
2,6-Dinitrotoluene	*0.7*	*3*	*N/A*	ND	ND	ND
3,3'-Dichlorobenzidine	*1*	*4*	*0.2*	ND	ND	ND
1,4-Dioxane	*N/A*	*N/A*	*N/A*	ND	ND	ND
Dibenzo(a,h)anthracene	*0.5*	*2*	*0.5*	0.0352 J	0.132	0.155
Dibenzofuran	*N/A*	*N/A*	*N/A*	ND	0.0585 J	ND
Di-n-butyl phthalate	*6,100*	*68,000*	*760*	ND	ND	ND
Di-n-octyl phthalate	*2,400*	*27,000*	*N/A*	ND	ND	ND
Diethyl phthalate	*49,000*	*550,000*	*88*	ND	ND	ND
Dimethyl phthalate	*N/A*	*N/A*	*N/A*	ND	ND	ND
bis(2-Ethylhexyl)phthalate	*35*	*140*	*1,200*	ND	0.0969	ND
Fluoranthene	*2,300*	*24,000*	*840*	0.333	1.62	1.58
Fluorene	*2,300*	*24,000*	*110*	ND	0.130	0.0260 J
Hexachlorobenzene	*0.3*	*1*	*0.2*	ND	ND	ND
Hexachlorobutadiene	*6*	*25*	*0.9*	ND	ND	ND
Hexachlorocyclopentadiene	*45*	*110*	*320*	ND	ND	ND
Hexachloroethane	*12*	*48*	*0.2*	ND	ND	ND
Indeno(1,2,3-cd)pyrene	*5*	*17*	*5*	0.135	0.523	0.597
Isophorone	*510*	*2,000*	*0.2*	ND	ND	ND
2-Methylnaphthalene	*230*	*2,400*	*8*	ND	0.0355 J	ND
2-Nitroaniline	*39*	*23,000*	*N/A*	ND	ND	ND
3-Nitroaniline	*N/A*	*N/A*	*N/A*	ND	ND	ND
4-Nitroaniline	*N/A*	*N/A*	*N/A*	ND	ND	ND
Naphthalene	*6*	*17*	*16*	0.0176 J	0.0268 J	ND
Nitrobenzene	*5*	*14*	*0.2*	ND	ND	ND
N-Nitroso-di-n-propylamine	*0.2*	*0.3*	*0.2*	ND	ND	ND
N-Nitrosodiphenylamine	*99*	*390*	*0.4*	ND	ND	ND
Phenanthrene	*N/A*	*300,000*	*N/A*	0.130	0.981	0.533
Pyrene	*1,700*	*18,000*	*550*	0.381	1.48	1.57
1,2,4,5-Tetrachlorobenzene	*N/A*	*N/A*	*N/A*	ND	ND	ND
Total TICs, Semi-Volatile	*N/A*	*N/A*	*N/A*	0.16 J	47.56 J	5.03 J

Notes: *mg/kg - milligrams per kilogram*
ND - not detected
J - indicates an estimated concentration
N/A - standard not available

Indicates soil concentration exceeds RDCSRS
(indicates concentration also exceeds IGWSSL)*

Indicates soil concentration exceeds IGWSSL

APPENDIX C

NJDEP signed Conditional Revised Sampling and Analysis Plan

State of New Jersey

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Waste & UST Compliance & Enforcement
Bureau of Solid Waste Compliance & Enforcement
9 Ewing Street
P.O. Box 420, Mail-Code 09-01
Trenton, NJ 08625-0420
Tel.: (609) 292-6305 Fax: (609) 292-4539

SHAWN M. LATOURETTE
Commissioner

On 4/3/24 Transmitted Via Email to: Keith Kazmark: kkazmark@ridgewoodnj.net
: crutishauser@ridgewoodnj.net

RE: Conditional Approval of Sampling and Analysis Plan dated April, 2024
Addressing imported fill at 460 West Saddle River Road, Ridgewood

Dear Messrs. Kazmark and Rutishauser,

The Bureau of Solid Waste Compliance & Enforcement (BSWC&E) has completed reviewing the referenced Sampling and Analysis Plan (SAP) and herein approves same in accordance with the following conditions:

1. The BSWC&E's review of the subject SAP is limited to facilitating the determination of compliance with the Solid Waste Management Act. Accordingly, should the results of this investigation indicate that the definition of solid waste at N.J.A.C. 7:26-1.6(a)6 has not been chemically triggered, the BSWC&E will acknowledge same. It should be noted, however, that the surficial observations of discarded plastic, steel, asphalt, concrete and other solid wastes observed amongst the trees north of the site access driveway would still need to be addressed. As the BSWC&E understands that such area is proposed to be developed with an artificial turf, it stands to reason that, regardless of the results of this investigation, such solid wastes would need to be removed in order to provide sufficient geotechnical support.

2. Although the investigation regarding the presence or absence of solid waste and any necessary corrective actions that may be deemed necessary to address solid waste as a result of this investigation are under the direct oversight of the BSWC&E, the conditions noted in this letter should not be construed to limit or replace any data collection needs that a Licensed Site Remediation Professional (LSRP) retained for this site pursuant to N.J.A.C. 7:26C may require in order to pursue a Response Action Outcome (RAO). Accordingly, it is up to such LSRP to collect any additional data necessary to support their conclusion.

3. For the purpose of clarity, the BSWC&E understands the information provided in Tables 1 and 2 do not mean to convey that samples will be composited, rather, that one discrete sample will be collected for laboratory analyses from each boring.

4. It would be appropriate to remove Target Compound List Volatile Organic Compounds (TCL-VOCs) provided the field soil gas screening does not indicate significant responses on a properly calibrated photoionization detector (PID). Depending on the site, the BSWC&E typically considers a PID response of greater than 10 parts per million above background ambient air conditions as warranting TCL-VOC analysis. If no such significant PID readings are encountered, to confirm the accuracy of the PID, at least one sample collected from the boring indicating the highest non-significant PID reading shall be analyzed for TCL-VOC.

5. The sampling proposed outside of the berm area does not address the major site disturbances evident in historical aerial photographs. Please see the aerials attached to the email transmission for this conditional approval. As noted therein, aerials from March 2019 show a path traversing north from the site entrance road with piles of materials along its sides. The aerial from March 2023 shows some of the imported fill was likely extended to the southern part of the property. Accordingly, the fill areas outside of the berm for this site can be addressed in either of the following two ways:

    a.) At 10,000 square feet spacing, grid out the remainder of the entire site (save for the lawn around the historic home). Within each grid, advance borings to no less than 1.5 feet below surface grade and collect one discrete sample within the most suspicious area of the fill and analyze same for EPA's Target Analyte List (hexavalent chromium can be substituted for total chromium) and EPA's Target Compound List compounds (in the event PID readings are less than 10 ppm above ambient background, TAL-VOCs can be omitted); or,

    b.) Perform the tasks in "a" above except that removal of suspicious fill could first be conducted followed by post-excavation sampling and analyses as above. The removed fill would then need to be sampled and analyzed as in "a" above. Should the removed fill indicate the definition of solid waste has been triggered, additional investigation would be required to delineate at least the horizontal extent of the contamination and, depending upon the results of the post-excavation analyses, the vertical extent would need to be determined as well.

6. Please be advised that prior to development, the site should be free of solid waste. While this is academic to chemically discern based upon the Residential soil remediation standards at N.J.A.C. 7:26D , the visual solid waste at this property, such as the metal, asphalt, concrete, plastic etc. (spread mostly in the northern part of the site), shall be removed as well. The Department has established a policy that a site should not contain more than 1% by volume of visual solid waste.

7. To minimize the potential for loss of soil gas, the prescribed PID readings shall be collected immediately upon opening the direct push recovery sleeves or soil boring cores.

8. A copy of the PID calibration log shall be provided with the completed SAP report.

9. Depending upon the results of the subject SAP, additional site characterization may be warranted.

10. A letter of interpretation of the usability of the data, based on a review of the findings in the Non-Conformance Summary, shall be provided. Please note that the laboratory should denote the specific compounds that may be outside of Quality Control limits.

11. The analytical results of compounds over the soil remediation standards at N.J.A.C. 7:26D shall be plotted on a scaled site map noting the locations of the corresponding samples.

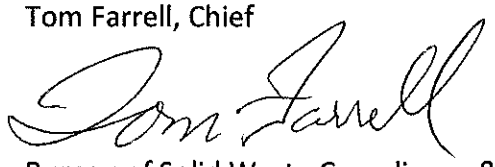
12. As there may be aspects of the conditions herein that may benefit from clarification, the BSWC&E recommends that the parties discuss same before implementation of the plan.

13. The BSWC&E shall be given at least five (5) business days notice prior to the commencement of field work as a representative from this bureau is required to observe the work.

Should you have any questions regarding this conditional SAP approval, please contact the undersigned.

Regards,

Tom Farrell, Chief



Bureau of Solid Waste Compliance & Enforcement

C: G. Lugo, D. Ongaro, BSWC&E

APPENDIX D

Berm Sampling Letter Report

Matrix New World Engineering, Land Surveying
and Landscape Architecture, P.C.
26 Columbia Turnpike
Florham Park NJ 07932
973.240-1800 Fax 973.240.1818
www.matrixneworld.com

MATRIXNEWORLD
Engineering Progress

June 21, 2024

Chris Rutishauser, P.E., CPWM
Director of Public Works/Village Engineer
Village of Ridgewood
131 North Maple Avenue
Ridgewood, New Jersey 07450

Re: IMPORTED BERM MATERIAL EVALUATION
VILLAGE OF RIDGEWOOD HISTORIC SITE – SCHEDLER PROPERTY
460 WEST SADDLE RIVER ROAD
VILLAGE OF RIDGEWOOD, BERGEN COUNTY, NEW JERSEY 07450
NJDEP CASE NO. 24-05-28-1117-27
PI No. 1062723
MATRIX NO. 23-1429

Dear Mr. Rutishauser:

Matrix New World Engineering, Land Surveying, and Landscape Architecture, PC (Matrix) has prepared this letter report detailing the recent soil sampling activities at the above referenced site located at 460 West Saddle River Road, Village of Ridgewood (Ridgewood), New Jersey (Site). The work performed and summarized below was conducted for Ridgewood to assess the quality of imported soil for the creation of a soil berm adjacent to New Jersey State Highway Route 17, along the southern side of the Site.

BACKGROUND

Matrix understands that Ridgewood received correspondence from the New Jersey Department of Environmental Protection (NJDEP) Bureau of Solid Waste Compliance & Enforcement (BSWCE) on December 11, 2023, questioning the sources and quality of the fill material that were imported to the Site to create the berm (Appendix A). Based on this correspondence from the NJDEP, it appears that approximately 10,000 cubic yards of fill material was imported to the Site to create the soil berm, as well as possibly filling other low areas of the Site. Subsequently, Ridgewood retained Matrix to complete a review of the data associated with the fill material and respond to the NJDEP with a Sampling and Analysis Plan (SAP). On April 2, 2024 Matrix submitted a SAP to the NJDEP detailing the scope of work for the sampling of the berm and filled in areas, which was conditionally approved by NJDEP on April 3, 2024. The conditional approval was based on NJDEP's request for additional sampling in other areas of the Site. The SAP is included as Appendix B.

BERM SOIL INVESTIGATION

The following section presents a technical overview of investigation activities performed by Matrix at the Site on May 3, 2024. Soil samples were collected in general accordance with NJDEP's Technical Requirements for Site Remediation (TRSR) N.J.A.C. 7:26E, NJDEP's Field Sampling Procedures Manual (FSPM), and any other applicable NJDEP Guidance Documents. The objective of the berm soil investigation was to complete soil sampling activities to determine if there were potential impacts associated with the materials imported to the Site to create the berm.

The applicable remediation standards for soil at this Site are the NJDEP's May 2021 Migration to Groundwater Exposure Pathway Soil Remediation Standards (MGWSRS) and the more stringent of the NJDEP's May 2021 Non-Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards (NRIDSRS); Non-Residential Inhalation Exposure Pathway Soil Remediation Standards (NRISRS); Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards (RIDSRS); and the Residential Inhalation Exposure Pathway Soil Remediation Standards (RISRS). Based on sample results, a Synthetic Precipitation Leaching Procedure (SPLP) was completed, and results were compared to the NJDEP's May 2021 Leachate Remediation Standard Migration to Groundwater Exposure Pathway (LRS-MGWEP). Subsequently, a Site-Specific Migration to Soil Remediation Standard (ARS-MGWSRS) was calculated.

Matrix retained Environmental Probing, Inc. (EPI) of Cream Ridge, New Jersey to advance a total of 14 soil borings using Geoprobe® direct push technology on May 3, 2024 throughout the soil berm. A Matrix representative provided full-time oversight of drilling activities. All soil borings were advanced to depths ranging from 5 to 10 feet below ground surface (BGS) with five-foot sampling cores using dedicated acetate sleeves. The berm material was visually inspected for any potential visual or olfactory impacts, screened with a photoionization detected (PID) (MiniRae parts per million [ppm] meter) for organic vapors and logged for material content and lithology. Soil samples were collected at the discrete six-inch interval that displayed the greatest likelihood of contamination based on field measurements and/or other evidence of contamination (i.e., staining, odor, elevated PID reading, etc.). Based on the approved NJDEP SAP, a total of 14 soil samples (SB-1 through SB-14) were collected for laboratory analysis and were analyzed for Target Compound List (TCL) Semi-volatile Organic Compounds (SVOCs) and Target Analyte List (TAL) Metals. Soil samples SB-1, SB-3 through SB-5, SB-7, SB-8, SB-10 through SB-12, and SB-14 were additionally analyzed for TCL Pesticides and polychlorinated biphenyls (PCBs). Quality Assurance/Quality Control (QA/QC) samples including two duplicate samples and a field blank were collected and analyzed for TCL SVOCs, TAL Metals, TCL Pesticides, and PCBs.

All soil boring were advanced from the top of the berm to a minimum depth of five feet within the limits of the soil berm and sample collection depths varied so that an evaluation of the emplaced imported soils could be performed. Three soil borings (SB-4, SB-10 and SB-14) were advanced to native soils to verify depths and soil horizons, native soils were encountered at approximately eight feet beneath the top center portion of the berm. The soil encountered within the soil berm predominantly consisted of a sandy silt. One soil boring location, SB-12, exhibited a dark brown clay material from 3 to 5 feet bgs. A PID reading of 67.5 parts per million (ppm) was observed at 3 feet bgs, therefore a volatile organic compound sample will be collected at a later date from this location. There were no observations of an odor, staining, or sheening throughout the soil column at SB-12. Groundwater was not encountered within any of the boring locations.

Soil boring locations are shown on Figure 2 and soil boring logs are provided in Appendix C. The soil sample analytical results are summarized below.

All soil samples were submitted to a NJDEP certified laboratory, SGS Laboratories of Dayton, New Jersey (#12129) within the prescribed field holding times and were received intact, and properly preserved. Matrix submitted all laboratory data to a third-party independent data validator, Nankoweep Environmental Consulting (Nankoweep) to review holding times, confirm that each analysis method met quality control requirements, and method blanks met method specific requirements. A sample summary table is included as Table 1.

The third-party validator noted that due to Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries, for metal analysis, were out of the control limits and as such reported concentrations for aluminum, manganese and iron may be biased high, while the concentration of antimony may be biased low. Two compounds, carbazole and beta-BHC were reported as estimated or non-detect concentrations but were detected at concentrations within five times the concentration of the method blank and the estimated concentrations may be due to potential blank contamination bias. It should be noted that extraction times for SPLP SVOC analysis were performed outside of their recommended timeframes and potential low bias may be demonstrated by missed extraction holding times, low laboratory control sample (LCS) recoveries, and low surrogate recoveries. Identification of benzo(a)anthracene may be accurate, but the magnitude of the sample results is not determined to be reliable. The Nankoweep data validation report is included in Appendix D. Additional information regarding the reliability of the laboratory analytical data can be found in the Case Narrative/Conformance Summary section of the laboratory analytical reports for soil and groundwater included in Appendix E.

Laboratory analytical results indicated that three compounds, benzo(a)anthracene, lead, and mercury were identified at concentrations within samples exceeding the NJDEP's MGWSRS and benzo(a)pyrene was identified at concentrations within samples exceeding the NJDEP's RIDSRS. Benzo(a)pyrene does not have a MGWSRS because the criterion is above soil saturation limit. Six soil samples, SB-3 through SB-7 and two QA/QC samples (Dupe-1 and Dupe-2) exhibited concentrations (0.988 milligrams per kilogram [mg/kg] to 1.85 mg/kg) exceeding the NJDEP's MGWSRS for benzo(a)anthracene at depths ranging from 2 to 3.5 feet BGS. One soil sample, SB-1, exhibited concentrations (169 mg/kg) exceeding the NJDEP's MGWSRS for lead from 2 to 2.5 feet BGS. Three soil samples, SB-1, SB-9, and SB-14 and one QA/QC sample (Dupe-2) exhibited concentrations (0.15 mg/kg to 0.29 mg/kg) exceeding the NJDEP's MGWSRS for mercury from 2 to 2.5 feet BGS. Soil analytical results are shown on Table 2. Laboratory analytical reports are provided in Appendix E.

Based on the MGWSRS exceedances identified above, a SPLP analysis was performed on three to four samples exhibiting the highest concentrations for benzo(a)anthracene (SB-4, SB-5, SB-6, and Dupe-1), lead (SB-1, SB-9, and SB-11), and mercury (SB-1, SB-9, and SB-14). The results of the SPLP analysis were input into the NJDEP's Soil and Soil Leachate Migration to Ground Water Exposure Pathway Calculator and indicated that the leachate concentrations were below the Leachate Remediation Standard-Migration to Groundwater Exposure Pathway (LRS-MGWEP). Therefore, a Site-Specific Alternative Remediation Standard – Migration to Groundwater Soil Remediation Standard (ARS-MGWSRS) was calculated for each compound. Based on the results of the calculator, the following ARS-MGWSRS were created: benzo(a)anthracene – 1.85 mg/kg, lead – 169 mg/kg, and mercury – 0.29 mg/kg. Therefore, all analytical results for benzo(a)anthracene, lead, and mercury were below their applicable ARS-MGWSRS. The Soil and Soil Leachate Migration to Groundwater Exposure Pathway Calculator Spreadsheets are provided in Appendix F.

CONCLUSIONS

Matrix completed an evaluation of soils imported to the Village of Ridgewood Historic Site for the creation of a berm to shield the Site from noise pollution associated with New Jersey State Highway Route 17. The soils were imported from six different sources located in Bergen County and were identified by NJDEP through record searches to be suspect soils not conforming with the importation of soil. The soil boring investigation identified the SVOC compound benzo(a)pyrene in seven soil samples (SB-3 through SB-8 and SB-14) and two QA/QC samples (Dupe-1 and Dupe-2) which exhibited concentrations (0.52 mg/kg to 1.96 mg/kg) exceeding the NJDEP's RIDSRS from 2 to 3.5 feet below the top of the berm..

Due to the initial RIDSRS exceedance of benzo(a)pyrene, as well as the MGWSRS exceedances of benzo(a)anthracene lead, and mercury, identified in the soils associated with the imported soils, Matrix notified the NJDEP via the NJDEP's Spill Hotline on May 28, 2024. NJDEP assigned Case No. 24-05-28-1117-27 and Program Interest Number 1062723 to the Site. Subsequently, Matrix submitted a Confirmed Discharge Notification (CDN) form on June 10, 2024.

Based on the results of the sampling yet to be completed on the balance of the Site, Matrix will coordinate with the Village of Ridgewood and the NJDEP to prepare a scope of work to remediate the remaining benzo(a)pyrene exceedances found in the berm material with the goal to resolve all NJDEP concerns.

If you have any questions or require any additional information, do not hesitate to contact us at (973) 240-1800.

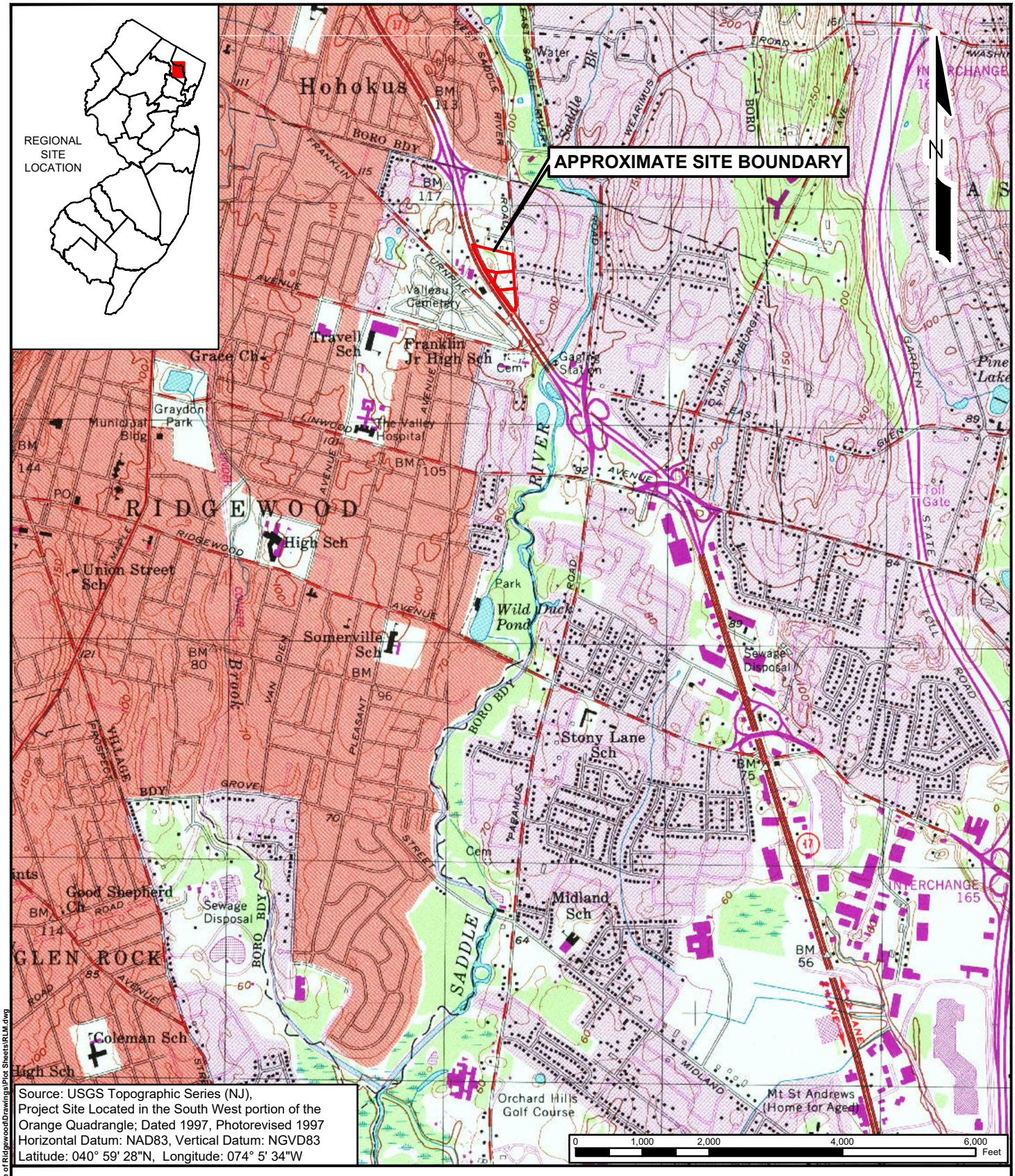
Sincerely,

Melissa Feury
Project Manager

Thomas DeMichele, LSRP
Senior Project Manager

Enclosed:
Figure 1 – Site Location Map
Figure 2 – Berm Soil Analytical Results Table
Table 1 – Sample Summary Table
Table 2 – Soil Analytical Results Table
Appendix A – NJDEP December 11, 2023 Correspondence
Appendix B – Sampling and Analysis Plan
Appendix C – Soil Boring Logs
Appendix D – Data Validation Reports
Appendix E – Analytical Laboratory Reports
Appendix F – Soil and Soil Leachate Migration to Groundwater Exposure Pathway Calculator Spreadsheets

FIGURES



Source: USGS Topographic Series (NJ),
Project Site Located in the South West portion of the Orange Quadrangle; Dated 1997, Photorevised 1997
Horizontal Datum: NAD83, Vertical Datum: NGVD83
Latitude: 040° 59' 28"N, Longitude: 074° 5' 34"W

SITE LOCATION MAP

MATRIXNEWORLD
Engineering Progress
Matrix New World Engineering, Land Surveying
and Landscape Architecture, P.C.
26 Columbia Turnpike
Florham Park, New Jersey 07932
Certified WBE
Tel: 973-240-1800
Fax: 973-240-1818
www.mnwe.com

VILLAGE OF RIDGEWOOD
BLOCK 4704, LOTS 9, 10, 11, & 12
VILLAGE OF RIDGEWOOD
BERGEN COUNTY, NEW JERSEY

SCALE:	PROJECT NO.:	DATE:	FIGURE NO.:
1 : 2,000	23-1429	MARCH 2024	1

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LEGEND

- TCL SVOCs, TAL METALS, PESTICIDES & PCBs
- TCL SVOCs & TAL METALS

SVOCs	SEMI-VOLATILE ORGANIC COMPOUNDS
PCBs	POLYCHLORINATED BIPHENYLS
NC	NO CRITERIA ESTABLISHED FOR THIS CONTAMINANT
SRS	SOIL REMEDIATION STANDARDS CRITERIA
NJDEP	NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
MGWSRS	MIGRATION TO GROUNDWATER EXPOSURE PATHWAY SOIL REMEDIATION STANDARDS
RIDSRS	RESIDENTIAL INGESTION-DERMAL EXPOSURE PATHWAY SOIL REMEDIATION STANDARDS
RISRS	RESIDENTIAL INHALATION EXPOSURE PATHWAY SOIL REMEDIATION STANDARDS
NRIDSRS	NON-RESIDENTIAL INGESTION-DERMAL EXPOSURE PATHWAY SOIL REMEDIATION STANDARDS
AR-MGWSRS	ALTERNATIVE REMEDIATION - MIGRATION TO GROUNDWATER SOIL REMEDIATION STANDARD
*	AR-MGWSRS UTILIZED AS STANDARD

Bold and italic EXCEEDS NJDEP MGWSRS/AR-MGWSRS

Bold EXCEEDS NJDEP RIDSRS/RISRS

ALL ANALYTICAL RESULTS FOR SOIL IN MILLIGRAMS PER KILOGRAM (mg/kg)
ALL SAMPLE DEPTHS PRESENTED IN ft, bgs (FEET BELOW GROUND SURFACE)
SITE SPECIFIC MIGRATION TO GROUNDWATER SOIL REMEDIATION STANDARD (MGWSRS) WAS CALCULATED FOR BENZO(A)ANTHRACENE' LEAD, AND MERCURY USING NJDEP'S SPLP SPREADSHEET, V1.0, MAY 2021.
UNSATURATED SOIL SAMPLES COMPARED TO MGWSRS/AR-MGWSRS

SAMPLE ID	SB-8
SAMPLE DATE	5/3/2024
SAMPLE DEPTH (ft)	3-3.5
Benzo(a)anthracene	0.924
Benzo(a)pyrene	**0.948**
All other SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	SB-5
SAMPLE DATE	5/3/2024
SAMPLE DEPTH (ft)	2-2.5
Benzo(a)anthracene	1.85
Benzo(a)pyrene	**1.87**
All other SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	SB-2
SAMPLE DATE	5/3/2024
SAMPLE DEPTH (ft)	2-2.5
SVOCs	<SRS
Metals	<SRS

SAMPLE ID	SB-1
SAMPLE DATE	5/3/2024
SAMPLE DEPTH (ft)	2-2.5
SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Lead	169
Mercury	0.29
All other Metals	<SRS

SAMPLE ID	SB-3
SAMPLE DATE	5/3/2024
SAMPLE DEPTH (ft)	2.5-3
Benzo(a)anthracene	1.5
Benzo(a)pyrene	**1.46**
All other SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	SB-10
SAMPLE DATE	5/3/2024
SAMPLE DEPTH (ft)	3-3.5
SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	SB-9
SAMPLE DATE	5/3/2024
SAMPLE DEPTH (ft)	3.5-4
SVOCs	<SRS
Mercury	0.19
All other Metals	<SRS

SAMPLE ID	SB-6
SAMPLE DATE	5/3/2024
SAMPLE DEPTH (ft)	2.5-3
Benzo(a)anthracene	1.58
Benzo(a)pyrene	**1.58**
All other SVOCs	<SRS
Metals	<SRS

SAMPLE ID	SB-4
SAMPLE DATE	5/3/2024
SAMPLE DEPTH (ft)	2.5-3
Benzo(a)anthracene	1.55
Benzo(a)pyrene	**1.53**
All other SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
All other Metals	<SRS

SAMPLE ID	SB-12
SAMPLE DATE	5/3/2024
SAMPLE DEPTH (ft)	3-3.5
SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Metals	<SRS

SAMPLE ID	SB-7	DUPE 1
SAMPLE DATE	5/3/2024	5/3/2024
SAMPLE DEPTH (ft)	2-2.5	2-2.5
Benzo(a)anthracene	1.38	1.82
Benzo(a)pyrene	**1.56**	**1.96**
All other SVOCs	<SRS	<SRS
Pesticides	<SRS	<SRS
PCBs	<SRS	<SRS
Metals	<SRS	<SRS

SAMPLE ID	SB-13
SAMPLE DATE	5/3/2024
SAMPLE DEPTH (ft)	3-3.5
SVOCs	<SRS
Metals	<SRS

SAMPLE ID	SB-14
SAMPLE DATE	5/3/2024
SAMPLE DEPTH (ft)	3-3.5
Benzo(a)pyrene	**1.87**
All other SVOCs	<SRS
Pesticides	<SRS
PCBs	<SRS
Mercury	0.17
All other Metals	<SRS

SAMPLE ID	SB-11	DUPE 2
SAMPLE DATE	5/3/2024	5/3/2024
SAMPLE DEPTH (ft)	2.5-3	2.5-3
Benzo(a)anthracene	<SRS	0.988
Benzo(a)pyrene	<SRS	**1.01**
All other SVOCs	<SRS	<SRS
Pesticides	<SRS	<SRS
PCBs	<SRS	<SRS
Mercury	<SRS	0.15
All other Metals	<SRS	<SRS

NOTE:
DRAWING WAS COMPLETED USING THE "TOPOGRAPHIC SURVEY LOTS 9, 10, 11 & 12 BLOCK 4704 TAX MAP" DRAWING BY DUNN SURVEYING & MAPPING P.A., NOVEMBER 14, 2023 AND PROVIDED TO MATRIX BY THE CLIENT.

0 40 80 160
SCALE: 1" = 80'

NJDEP Soil Remediation Standards Criteria		NJ Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)
Compound						
SVOCs	Benzo(a)anthracene	5.1	23	78000	370000	1.85*
	Benzo(a)pyrene	0.51	2.3	7800	16000	NC
Metals	Lead	400	800	NC	NC	169*
	Mercury	23	390	520000	NC	0.29*

DESIGNED BY: MED | REVIEWED BY: JR | RELEASED BY: MF

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NEW JERSEY CERTIFICATE OF AUTHORIZATION No. 24GA27982300

BERM SOIL ANALYTICAL RESULTS COMPARED TO SRS

VILLAGE OF RIDGEWOOD
BLOCK 4704, LOTS 9, 10, 11 & 12
WEST SADDLE RIVER ROAD
VILLAGE OF RIDGEWOOD
BERGEN COUNTY, NEW JERSEY

PROJECT NUMBER: 23-1429
SCALE: AS SHOWN
DATE: 6/12/2024
2

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TABLES

Table - 1
Sample Summary Table
Ridgewood Village Historic Site
460 West Saddle River Road, Village of Ridgewood, New Jersey
23-1429

MATRIXNEWORLD
Engineering Progress

LOCATION	DATE	MATRIX	DEPTH (ft, bgs)	ANALYTICAL PARAMETERS	SAMPLING METHOD
Areas of Concern					
Berm					
SB-1	5/3/2024	Soil	2.0 - 2.5	TCL SVOC'S, TAL Metals, Pesticides, PCB's, SPLP Lead, SPLP Mercury	Scoopula
SB-2	5/3/2024	Soil	2.0 - 2.5	TCL SVOC's & TAL Metals	Scoopula
SB-3	5/3/2024	Soil	2.5 - 3.0	TCL SVOC'S, TAL Metals, Pesticides, PCB's	Scoopula
SB-4	5/3/2024	Soil	2.5 - 3.0	TCL SVOC'S, TAL Metals, Pesticides, PCB's, SPLP Benzo(a)anthracene	Scoopula
SB-5	5/3/2024	Soil	2.0 - 2.5	TCL SVOC'S, TAL Metals, Pesticides, PCB's , SPLP Benzo(a)anthracene	Scoopula
SB-6	5/3/2024	Soil	2.5 - 3.0	TCL SVOC's & TAL Metals, SPLP Benzo(a)anthracene	Scoopula
SB-7	5/3/2024	Soil	2.0 - 2.5	TCL SVOC'S, TAL Metals, Pesticides, PCB's	Scoopula
SB-8	5/3/2024	Soil	3.0 - 3.5	TCL SVOC'S, TAL Metals, Pesticides, PCB's	Scoopula
SB-9	5/3/2024	Soil	3.5 - 4.0	TCL SVOC's, TAL Metals, SPLP Lead, SPLP Mercury	Scoopula
SB-10	5/3/2024	Soil	3.0 - 3.5	TCL SVOC'S, TAL Metals, Pesticides, PCB's	Scoopula
SB-11	5/3/2024	Soil	2.5 - 3.0	TCL SVOC'S, TAL Metals, Pesticides, PCB's , SPLP Lead	Scoopula
SB-12	5/3/2024	Soil	3.0 - 3.5	TCL SVOC'S, TAL Metals, Pesticides, PCB's	Scoopula
SB-13	5/3/2024	Soil	3.0 - 3.5	TCL SVOC's & TAL Metals	Scoopula
SB-14	5/3/2024	Soil	3.0 - 3.5	TCL SVOC'S, TAL Metals, Pesticides, PCB's, SPLP Mercury	Scoopula
DUPE 1	5/3/2024	Soil	2.0 - 2.5	TCL SVOC'S, TAL Metals, Pesticides, PCB's, SPLP Benzo(a)anthracene	Scoopula
DUPE 2	5/3/2024	Soil	2.5 - 3.0	TCL SVOC'S, TAL Metals, Pesticides, PCB's	Scoopula
Field Blank	5/3/2024	Aqueous	--	TCL SVOC'S, TAL Metals, Pesticides, PCB's	--

Notes:
TCL = Target Compound List
SVOC's= Semi Volatile organic Compounds
TAL= Target Analyte List
PCB's= Polychlorinated Biphenyls
SPLP = Synthetic Precipitation Leachte Procedure
ft, bgs = Feet, Below Ground Surface

Table - 2
Berm Soil Analytical Resuts - SVOCs
Ridgewood Village Historic Site
460 West Saddle River Road, Village of Ridgewood, New Jersey
23-1429

Client Sample ID:	NJ Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Ingestion Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	SB-1		SB-2		SB-3		SB-4		SB-5		SB-6		SB-7	
Lab Sample ID:						JD87833-1		JD87833-2		JD87833-3		JD87833-4		JD87833-5		JD87833-6		JD87833-7	
Date Sampled:						5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024	
Sample Depth (ft, bgs):						2.0 - 2.5		2.0 - 2.5		2.5 - 3.0		2.5 - 3.0		2.0 - 2.5		2.5 - 3.0		2.0 - 2.5	
Saturated (S)/Unsaturated (US):						US		US		US		US		US		US		US	
Matrix:						Soil		Soil		Soil		Soil		Soil		Soil		Soil	
SVOCs																			
2-Chlorophenol	390	6500	NC	NC	0.76	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
4-Chloro-3-methyl phenol	NC	NC	NC	NC	NC	0.22	U	0.18	U	0.37	U	0.19	U	0.18	U	0.18	U	0.18	U
2,4-Dichlorophenol	190	2700	NC	NC	0.19	0.22	U	0.18	U	0.37	U	0.19	U	0.18	U	0.18	U	0.18	U
2,4-Dimethylphenol	1300	18000	NC	NC	2.3	0.22	U	0.18	U	0.37	U	0.19	U	0.18	U	0.18	U	0.18	U
2,4-Dinitrophenol	130	1800	NC	NC	0.33	0.22	U	0.18	U	0.37	U	0.19	U	0.18	U	0.18	U	0.18	U
4,6-Dinitro-o-cresol	NC	NC	NC	NC	NC	0.22	U	0.18	U	0.37	U	0.19	U	0.18	U	0.18	U	0.18	U
2-Methylphenol	320	4600	NC	NC	0.77	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
3&4-Methylphenol	NC	NC	NC	NC	NC	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
2-Nitrophenol	NC	NC	NC	NC	NC	0.22	U	0.18	U	0.37	U	0.19	U	0.18	U	0.18	U	0.18	U
4-Nitrophenol	NC	NC	NC	NC	NC	0.45	U	0.36	U	0.73	U	0.38	U	0.37	U	0.36	U	0.36	U
Pentachlorophenol	1	4.4	NC	NC	0.33	0.18 [a]	U	0.14 [a]	U	0.29 [a]	U	0.15 [a]	U	0.15 [a]	U	0.15 [a]	U	0.14 [a]	U
Phenol	19000	270000	39000	NC	21	0.118		0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
2,3,4,6-Tetrachlorophenol	1900	27000	NC	NC	26	0.22	U	0.18	U	0.37	U	0.19	U	0.18	U	0.18	U	0.18	U
2,4,5-Trichlorophenol	6300	91000	NC	NC	68	0.22	U	0.18	U	0.37	U	0.19	U	0.18	U	0.18	U	0.18	U
2,4,6-Trichlorophenol	49	230	NC	NC	0.86	0.22	U	0.18	U	0.37	U	0.19	U	0.18	U	0.18	U	0.18	U
Acenaphthene	3600	50000	NC	NC	NC	0.018	J	0.0494		0.133		0.106		0.147		0.157		0.104	
Acenaphthylene	NC	NC	NC	NC	NC	0.0604		0.122		0.182		0.207		0.192		0.223		0.345	
Acetophenone	7800	130000	NC	NC	3.6	0.22	U	0.18	U	0.37	U	0.19	U	0.18	U	0.18	U	0.18	U
Anthracene	18000	250000	NC	NC	NC	0.0715		0.213		0.539		0.563		0.568		0.537		0.495	
Atrazine	220	3200	NC	NC	0.33	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
Benzo(a)anthracene	5.1	23	78000	370000	1.85*	0.233		0.519		1.5		1.55		1.85		1.58		1.38	
Benzo(a)pyrene	0.51	2.3	7800	16000	NC	0.243		0.481		**1.46**		**1.53**		**1.87**		**1.58**		**1.56**	
Benzo(b)fluoranthene	5.1	23	78000	370000	NC	0.342		0.534		1.72		1.81		2.04		1.81		1.64	
Benzo(g,h,i)perylene	NC	NC	NC	NC	NC	0.182		0.304		0.902		0.941		1.2		0.994		1	
Benzo(k)fluoranthene	51	230	780000	NC	NC	0.114		0.161		0.485		0.505		0.728		0.574		0.603	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	NC	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
Butyl benzyl phthalate	290	1300	NC	NC	29	0.090 [a]	U	0.072 [a]	U	0.15 [a]	U	0.076 [a]	U	0.073 [a]	U	0.073 [a]	U	0.071 [a]	U
1,1'-Biphenyl	87	450	NC	NC	NC	0.0062	J	0.0192	J	0.0142	J	0.0087	J	0.013	J	0.0159	J	0.0126	J
Benzaldehyde	170	910	NC	NC	NC	0.0172	J	0.18	U	0.37	U	0.19	U	0.18	U	0.18	U	0.18	U
2-Chloronaphthalene	4800	67000	NC	NC	NC	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
4-Chloroaniline	2.7	13	NC	NC	0.23	0.22	U	0.18	U	0.37	U	0.19	U	0.18	U	0.18	U	0.18	U
Carbazole	NC	NC	NC	NC	NC	0.0305	J	0.0246	JB	0.114	J	0.069	JB	0.0723	JB	0.102	B	0.0724	
Caprolactam	32000	460000	290	1300	16	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
Chrysene	510	2300	NC	NC	NC	0.273		0.496		1.29		1.44		1.54		1.31		1.25	
bis(2-Chloroethoxy)methane	190	2700	NC	NC	NC	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
bis(2-Chloroethyl)ether	0.63	3.3	NC	NC	0.33	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
2,2'-Oxybis(1-chloropropane)	3100	52000	NC	NC	1.9	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	NC	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
2,4-Dinitrotoluene	NC	NC	NC	NC	NC	0.045	U	0.036	U	0.073	U	0.038	U	0.037	U	0.036	U	0.036	U
2,6-Dinitrotoluene	NC	NC	NC	NC	NC	0.045	U	0.036	U	0.073	U	0.038	U	0.037	U	0.036	U	0.036	U
3,3'-Dichlorobenzidine	1.2	5.7	NC	NC	3.9	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
1,4-Dioxane	7	36	45	210	0.067	0.045	U	0.036	U	0.073	U	0.038	U	0.037	U	0.036	U	0.036	U
Dibenzo(a,h)anthracene	0.51	2.3	7800	37000	NC	0.0482		0.0819		0.23		0.247		0.287		0.251		0.261	
Dibenzofuran	NC	NC	NC	NC	NC	0.09	U	0.072	U	0.0867	J	0.0509	J	0.0929		0.0944		0.0663	J
Di-n-butyl phthalate	6300	91000	NC	NC	NC	0.0143	J	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
Di-n-octyl phthalate	630	9100	NC	NC	NC	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
Diethyl phthalate	51000	730000	NC	NC	44	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
Dimethyl phthalate	NC	NC	NC	NC	NC	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
bis(2-Ethylhexyl)phthalate	39	180	NC	NC	14	0.0804	J	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
Fluoranthene	2400	33000	NC	NC	NC	0.487		0.956		3.15		3.22		3.68		3.05		2.39	
Fluorene	2400	33000	NC	NC	NC	0.0243	J	0.192		0.206		0.163		0.166		0.198		0.167	
Hexachlorobenzene	0.43	2.3	NC	NC	0.17	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
Hexachlorobutadiene	8.9	47	NC	NC	0.17	0.045	U	0.036	U	0.073	U	0.038	U	0.037	U	0.036	U	0.036	U
Hexachlorocyclopentadiene	470	7800	2.7	NC	2.5	0.45	U	0.36	U	0.73	U	0.38	U	0.37	U	0.36	U	0.36	U
Hexachloroethane	17	91	NC	NC	0.17	0.22	U	0.18	U	0.37	U	0.19	U	0.18	U	0.18	U	0.18	U
Indeno(1,2,3-cd)pyrene	5.1	23	78000	370000	NC	0.147		0.25		0.752		0.796		0.974		0.826		0.822	
Isophorone	570	2700	NC	NC	0.23	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
2-Methylnaphthalene	240	3300	NC	NC	3.1	0.045	U	0.0782		0.0286	J	0.0181	J	0.02	J	0.0251	J	0.0265	J
2-Nitroaniline	NC	NC	NC	NC	NC	0.22	U	0.18	U	0.37	U	0.19	U	0.18	U	0.18	U	0.18	U
3-Nitroaniline	NC	NC	NC	NC	NC	0.22	U	0.18	U	0.37	U	0.19	U	0.18	U	0.18	U	0.18	U
4-Nitroaniline	27	130	NC	NC	NC	0.22	U	0.18	U	0.37	U	0.19	U	0.18	U	0.18	U	0.18	U
Naphthalene	2500	34000	5.7	27	19	0.045	U	0.0209	J	0.0345	J	0.0238	J	0.0286	J	0.0401		0.0383	
Nitrobenzene	160	2600	7.5	36	0.17	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
N-Nitroso-di-n-propylamine	0.17	0.36	NC	NC	0.17	0.09	U	0.072	U	0.15	U	0.076	U	0.073	U	0.073	U	0.071	U
N-Nitrosodiphenylamine	110	520	NC	NC	1.1	0.22	U	0.18	U	0.37	U	0.19	U	0.18	U	0.18	U	0.18	U
Phenanthrene	NC	NC	NC	NC	NC	0.243		0.956		1.73		1.53		1.42		1.47		1.05	
Pyrene	1800	25000	NC	NC	NC	0.495		1.12		3.14		3.12		3.41		3.01		2.64	
1,2,4,5-Tetrachlorobenzene	23	390	NC	NC	NC	0.22	U	0.18	U	0.37	U	0.19	U	0.18	U	0.18	U	0.18	U
Total TIC, Semi-Volatile	NC	NC	NC	NC	NC	42.67	J	5.57	J	4.16	J	7.61	J	9.72	J	7.23	J	7.44	J

Notes:

All analytical results for soil in milligrams per kilogram (mg/kg)

Site Specific Migration to Groundwater Soil Remediation Standard (MGWSRS) was calculated for benzo(a)anthracene using NJDEP's SPLP Spreadsheet, V1.0, May 2021.

ft, bgs= feet below ground surface

All sample depths presented in ft, bgs

[a] Associated CCV outside of control limits high, sample was ND.

[b] Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.

B = Indicates analyte found in associated method blank

J = Estimated concentration below laboratory reporting limit

NC = No criteria established for this contaminant

U = Denotes parameters analyzed for but not detected; value shown is the laboratory reporting limit

- = Not Analyzed

SVOCs = Semi-Volatile Organic Compounds

Unsaturated soil samples compared to MGWSRS/AR-MGWSRS

* = AR-MGWSRS utilized as standard

NJ-MGWSRS = New Jersey 2021 Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria

AR-MGWSRS = Alternative Remediation - Migration to Groundwater Soil Remediation Standard

NJ-NRISRS = New Jersey 2021 Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-NRIDSRS = New Jersey 2021 Non-Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

NJ-RISRS = New Jersey 2021 Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-RIDSRS = New Jersey 2021 Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

Bold and italic	Reporting limit exceeds NJDEP's most stringent standard
Bold and italic	Exceeds the NJDEP MGWSRS/AR-MGWSRS
Bold	Exceeds NJDEP RIDSRS/RISRS
Bold and underline	Exceeds NJDEP NRIDSRS/NRISRS

Table - 2
Berm Soil Analytical Resuts - SVOCs
Ridgewood Village Historic Site
460 West Saddle River Road, Village of Ridgewood, New Jersey
23-1429

Client Sample ID:	NJ Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Ingestion Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	SB-8		SB-9		SB-10		SB-11		SB-12		SB-13		SB-14		DUPE 1		DUPE 2	
Lab Sample ID:						JD87833-8		JD87833-9		JD87833-10		JD87833-11		JD87833-12		JD87833-13		JD87833-14		JD87833-15		JD87833-16	
Date Sampled:						5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024	
Sample Depth (ft, bgs):						3.0 - 3.5		3.5 - 4.0		3.0 - 3.5		2.5 - 3.0		3.0 - 3.5		3.0 - 3.5		3.0 - 3.5		2.0 - 2.5		2.5 - 3.0	
Saturated (S)/Unsaturated (US):						US		US		US		US		US		US		US		US		US	
Matrix:						Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
SVOCs																							
2-Chlorophenol	390	6500	NC	NC	0.76	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
4-Chloro-3-methyl phenol	NC	NC	NC	NC	NC	0.18	U	0.2	U	0.19	U	0.38	U	0.19	U	0.19	U	0.18	U	0.17	U	0.18	U
2,4-Dichlorophenol	190	2700	NC	NC	0.19	0.18	U	0.2	U	0.19	U	0.38	U	0.19	U	0.19	U	0.18	U	0.17	U	0.18	U
2,4-Dimethylphenol	1300	18000	NC	NC	2.3	0.18	U	0.2	U	0.19	U	0.38	U	0.19	U	0.19	U	0.18	U	0.17	U	0.18	U
2,4-Dinitrophenol	130	1800	NC	NC	0.33	0.18	U	0.2	U	0.19	U	0.38	U	0.19	U	0.19	U	0.18	U	0.17	U	0.18	U
4,6-Dinitro-o-cresol	NC	NC	NC	NC	NC	0.18	U	0.2	U	0.19	U	0.38	U	0.19	U	0.19	U	0.18	U	0.17	U	0.18	U
2-Methylphenol	320	4600	NC	NC	0.77	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
3&4-Methylphenol	NC	NC	NC	NC	NC	0.072	U	0.195		0.0476	J	0.15	U	0.0896		0.078	U	0.073	U	0.069	U	0.072	U
2-Nitrophenol	NC	NC	NC	NC	NC	0.18	U	0.2	U	0.19	U	0.38	U	0.19	U	0.19	U	0.18	U	0.17	U	0.18	U
4-Nitrophenol	NC	NC	NC	NC	NC	0.36	U	0.4	U	0.39	U	0.75	U	0.39	U	0.39	U	0.37	U	0.35	U	0.36	U
Pentachlorophenol	1	4.4	NC	NC	0.33	0.14 [a]	U	0.16 [a]	U	0.16 [a]	U	0.30 [a]	U	0.16 [a]	U	0.16 [a]	U	0.15 [a]	U	0.14 [a]	U	0.14 [a]	U
Phenol	19000	270000	39000	NC	21	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
2,3,4,6-Tetrachlorophenol	1900	27000	NC	NC	26	0.18	U	0.2	U	0.19	U	0.38	U	0.19	U	0.19	U	0.18	U	0.17	U	0.18	U
2,4,5-Trichlorophenol	6300	91000	NC	NC	68	0.18	U	0.2	U	0.19	U	0.38	U	0.19	U	0.19	U	0.18	U	0.17	U	0.18	U
2,4,6-Trichlorophenol	49	230	NC	NC	0.86	0.18	U	0.2	U	0.19	U	0.38	U	0.19	U	0.19	U	0.18	U	0.17	U	0.18	U
Acenaphthene	3600	50000	NC	NC	NC	0.051		0.0435		0.039	U	0.075	U	0.039	U	0.042		0.115		0.04			
Acenaphthylene	NC	NC	NC	NC	NC	0.132		0.101		0.0304	J	0.075	U	0.039	U	0.039	U	0.0869		0.285		0.192	
Acetophenone	7800	130000	NC	NC	3.6	0.18	U	0.023	J	0.19	U	0.38	U	0.19	U	0.19	U	0.18	U	0.17	U	0.18	U
Anthracene	18000	250000	NC	NC	NC	0.23		0.159		0.039	U	0.075	U	0.039	U	0.039	U	0.15		0.566		0.25	
Atrazine	220	3200	NC	NC	0.33	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
Benzo(a)anthracene	5.1	23	78000	370000	1.85*	0.924		0.415		0.0822		0.0914		0.0166	J	0.037	J	0.497		1.82		0.988	
Benzo(a)pyrene	0.51	2.3	7800	16000	NC	**0.948**		0.48		0.0861		0.0985		0.039	U	0.0404		**0.52**		**1.96**		**1.01**	
Benzo(b)fluoranthene	5.1	23	78000	370000	NC	1.06		0.587		0.0943		0.116		0.0229	J	0.0492		0.56		2.28		1.26	
Benzo(g,h,i)perylene	NC	NC	NC	NC	NC	0.607		0.31		0.0626		0.0842		0.039	U	0.0329	J	0.355		1.23		0.624	
Benzo(k)fluoranthene	51	230	780000	NC	NC	0.418		0.154		0.0387	J	0.0412	J	0.039	U	0.0183	J	0.227		0.71		0.329	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	NC	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
Butyl benzyl phthalate	290	1300	NC	NC	29	0.072 [a]	U	0.080 [a]	U	0.078 [a]	U	0.0365 [b]	J	0.078 [a]	U	0.078 [a]	U	0.073 [a]	U	0.069 [a]	U	0.072 [a]	U
1,1'-Biphenyl	87	450	NC	NC	NC	0.0062	J	0.0098	J	0.078	U	0.15	U	0.078	U	0.078	U	0.0066	J	0.0096	J	0.0077	J
Benzaldehyde	170	910	NC	NC	NC	0.18	U	0.0232	J	0.19	U	0.38	U	0.0103	J	0.19	U	0.18	U	0.17	U	0.0092	J
2-Chloronaphthalene	4800	67000	NC	NC	NC	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
4-Chloroaniline	2.7	13	NC	NC	0.23	0.18	U	0.2	U	0.19	U	0.38	U	0.19	U	0.19	U	0.18	U	0.17	U	0.18	U
Carbazole	NC	NC	NC	NC	NC	0.0342	JB	0.04	J	0.0072	JB	0.0122	JB	0.078	U	0.0065	J	0.0465	J	0.0815	B	0.0416	J
Caprolactam	32000	460000	290	1300	16	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
Chrysene	510	2300	NC	NC	NC	0.862		0.453		0.0664		0.101		0.018	J	0.0394		0.481		1.68		0.959	
bis(2-Chloroethoxy)methane	190	2700	NC	NC	NC	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
bis(2-Chloroethyl)ether	0.63	3.3	NC	NC	0.33	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
2,2'-Oxybis(1-chloropropane)	3100	52000	NC	NC	1.9	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	NC	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
2,4-Dinitrotoluene	NC	NC	NC	NC	NC	0.036	U	0.04	U	0.039	U	0.075	U	0.039	U	0.039	U	0.037	U	0.035	U	0.036	U
2,6-Dinitrotoluene	NC	NC	NC	NC	NC	0.036	U	0.04	U	0.039	U	0.075	U	0.039	U	0.039	U	0.037	U	0.035	U	0.036	U
3,3'-Dichlorobenzidine	1.2	5.7	NC	NC	3.9	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
1,4-Dioxane	7	36	45	210	0.067	0.036	U	0.04	U	0.039	U	0.075	U	0.039	U	0.039	U	0.037	U	0.035	U	0.036	U
Dibenzo(a,h)anthracene	0.51	2.3	7800	37000	NC	0.159		0.0799		0.039	U	0.075	U	0.039	U	0.039	U	0.0892		0.327		0.175	
Dibenzofuran	NC	NC	NC	NC	NC	0.0241	J	0.0241	J	0.078	U	0.15	U	0.078	U	0.078	U	0.0172	J	0.0621	J	0.0251	J
Di-n-butyl phthalate	6300	91000	NC	NC	NC	0.072	U	0.0108	J	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
Di-n-octyl phthalate	630	9100	NC	NC	NC	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
Diethyl phthalate	51000	730000	NC	NC	44	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
Dimethyl phthalate	NC	NC	NC	NC	NC	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
bis(2-Ethylhexyl)phthalate	39	180	NC	NC	14	0.072	U	0.0439	J	0.078	U	0.0281	J	0.078	U	0.0107	J	0.0152	J	0.069	U	0.072	U
Fluoranthene	2400	33000	NC	NC	NC	1.77		0.888		0.143		0.167		0.0286	J	0.0789		0.973		3.53		1.65	
Fluorene	2400	33000	NC	NC	NC	0.0679		0.0546		0.039	U	0.075	U	0.039	U	0.039	U	0.0452		0.155		0.0613	
Hexachlorobenzene	0.43	2.3	NC	NC	0.17	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
Hexachlorobutadiene	8.9	47	NC	NC	0.17	0.036	U	0.04	U	0.039	U	0.075	U	0.039	U	0.039	U	0.037	U	0.035	U	0.036	U
Hexachlorocyclopentadiene	470	7800	2.7	NC	2.5	0.36	U	0.4	U	0.39	U	0.75	U	0.39	U	0.39	U	0.37	U	0.35	U	0.36	U
Hexachloroethane	17	91	NC	NC	0.17	0.18	U	0.2	U	0.19	U	0.38	U	0.19	U	0.19	U	0.18	U	0.17	U	0.18	U
Indeno(1,2,3-cd)pyrene	5.1	23	78000	370000	NC	0.51		0.263		0.0507		0.0582	J	0.039	U	0.0272	J	0.289		1.04		0.535	
Isophorone	570	2700	NC	NC	0.23	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
2-Methylnaphthalene	240	3300	NC	NC	3.1	0.0103	J	0.0152	J	0.039	U	0.075	U	0.039	U	0.039	U	0.037	U	0.0189	J	0.0157	J
2-Nitroaniline	NC	NC	NC	NC	NC	0.18	U	0.2	U	0.19	U	0.38	U	0.19	U	0.19	U	0.18	U	0.17	U	0.18	U
3-Nitroaniline	NC	NC	NC	NC	NC	0.18	U	0.2	U	0.19	U	0.38	U	0.19	U	0.19	U	0.18	U	0.17	U	0.18	U
4-Nitroaniline	27	130	NC	NC	NC	0.18	U	0.2	U	0.19	U	0.38	U	0.19	U	0.19	U	0.18	U	0.17	U	0.18	U
Naphthalene	2500	34000	5.7	27	19	0.0171	J	0.0239	J	0.039	U	0.075	U	0.039	U	0.039	U	0.0109	J	0.0322	J	0.0216	J
Nitrobenzene	160	2600	7.5	36	0.17	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
N-Nitroso-di-n-propylamine	0.17	0.36	NC	NC	0.17	0.072	U	0.08	U	0.078	U	0.15	U	0.078	U	0.078	U	0.073	U	0.069	U	0.072	U
N-Nitrosodiphenylamine	110	520	NC	NC	1.1	0.18	U	0.2	U	0.19	U	0.38	U	0.19	U	0.19	U	0.18	U	0.17	U	0.18	U
Phenanthrene	NC	NC	NC	NC	NC	0.637		0.459		0.0524		0.0899		0.0163	J	0.0412		0.492		1.54		0.572	
Pyrene	1800	25000	NC	NC	NC	1.73		0.896		0.142		0.176		0.0284	J	0.0759		0.974		3.35		1.66	
1,2,4,5-Tetrachlorobenzene	23	390	NC	NC	NC	0.18	U	0.2	U	0.19	U	0.38	U	0.19	U	0.19	U	0.18	U	0.17	U	0.18	U
Total TIC, Semi-Volatile	NC	NC	NC	NC	NC	2.66	J	29.3	J	8.83	J	2.1	J	14.51	J	11.42	J	8.36	J	8.12	J	8.85	J

Notes:

All analytical results for soil in milligrams per kilogram (mg/kg)

Site Specific Migration to Groundwater Soil Remediation Standard (MGWSRS) was calculated for benzo(a)anthracene using NJDEP's SPLP Spreadsheet, V1.0, May 2021.

ft, bgs= feet below ground surface

All sample depths presented in ft, bgs

[a] Associated CCV outside of control limits high, sample was ND.

[b] Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.

B = Indicates analyte found in associated method blank

J = Estimated concentration below laboratory reporting limit

NC = No criteria established for this contaminant

U = Denotes parameters analyzed for but not detected; value shown is the laboratory reporting limit

- = Not Analyzed

SVOCs = Semi-Volatile Organic Compounds

Unsaturated soil samples compared to MGWSRS/AR-MGWSRS

* = AR-MGWSRS utilized as standard

NJ-MGWSRS = New Jersey 2021 Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria

AR-MGWSRS = Alternative Remediation - Migration to Groundwater Soil Remediation Standard

NJ-NRISRS = New Jersey 2021 Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-NRIDSRS = New Jersey 2021 Non-Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

NJ-RISRS = New Jersey 2021 Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-RIDSRS = New Jersey 2021 Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

Bold and italic	Reporting limit exceeds NJDEP's most stringent standard
Bold and italic	Exceeds the NJDEP MGWSRS/AR-MGWSRS
Bold	Exceeds NJDEP RIDSRS/RISRS
Bold and underline	Exceeds NJDEP NRIDSRS/NRISRS

Table - 2
Berm Soil Analytical Resuts - Pesticides
Ridgewood Village Historic Site
460 West Saddle River Road, Village of Ridgewood, New Jersey
23-1429

Client Sample ID:	NJ Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Ingestion Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	SB-1		SB-2		SB-3		SB-4		SB-5		SB-6		SB-7	
Lab Sample ID:						JD87833-1		JD87833-2		JD87833-3		JD87833-4		JD87833-5		JD87833-6		JD87833-7	
Date Sampled:						5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024	
Sample Depth (ft, bgs):						2.0 - 2.5		2.0 - 2.5		2.5 - 3.0		2.5 - 3.0		2.0 - 2.5		2.5 - 3.0		2.0 - 2.5	
Saturated (S)/Unsaturated (US):						US		US		US		US		US		US		US	
Matrix:						Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Pesticides																			
Aldrin	0.041	0.21	NC	NC	0.13	0.00053	U	-		0.00042	U	0.00042	U	0.0021	U	-		0.00044	U
alpha-BHC	0.086	0.41	NC	NC	0.0023	0.00053	U	-		0.00042	U	0.00042	U	0.0021	U	-		0.00044	U
beta-BHC	0.3	1.4	NC	NC	0.0046	0.00053	U	-		0.00013 [c]	JB	0.00014 [c]	JB	0.0021	U	-		0.00015 [c]	JB
delta-BHC	NC	NC	NC	NC	NC	0.00053	U	-		0.00042	U	0.00042	U	0.0021	U	-		0.00044	U
gamma-BHC (Lindane)	0.57	2.8	NC	NC	0.0035	0.00053	U	-		0.00042	U	0.00042	U	0.0021	U	-		0.00044	U
alpha-Chlordane	0.27	1.4	NC	NC	1.4	0.00048 [c]	J	-		0.00098		0.0012		0.00063 [c]	J	-		0.00086	
gamma-Chlordane	0.27	1.4	NC	NC	1.4	0.00053	U	-		0.00051		0.00046		0.0021	U	-		0.00044	
Chlordane (alpha and gamma)	0.27	1.4	NC	NC	1.4	0.00048	J	-		0.0015		0.0017		0.00063	J	-		0.0013	
Dieldrin	0.034	0.16	NC	NC	0.024	0.00043	J	-		0.00012 [c]	J	0.00021	J	0.0021	U	-		0.00015 [c]	J
4,4'-DDD	2.3	11	NC	NC	0.47	0.0015		-		0.00079		0.00040 [c]	J	0.00073 [c]	J	-		0.00069	
4,4'-DDE	2	11	NC	NC	0.47	0.0025		-		0.00045 [c]		0.00014 [c]	J	0.0021	U	-		0.00057	
4,4'-DDT	1.9	9.5	NC	NC	0.67	0.0022 [d]		-		0.0011 [c]		0.00053 [c]		0.0013	J	-		0.00044 [c]	
Endrin	19	270	NC	NC	1.6	0.00053	U	-		0.00042	U	0.00042	U	0.0021	U	-		0.00044	U
Endosulfan sulfate	NC	NC	NC	NC	NC	0.00053	U	-		0.00042	U	0.00042	U	0.0021	U	-		0.00044	U
Endrin aldehyde	NC	NC	NC	NC	NC	0.00053	U	-		0.00042	U	0.00042	U	0.0021	U	-		0.00044	U
Endosulfan-I	470	7800	NC	NC	NC	0.00053	U	-		0.00042	U	0.00042	U	0.0021	U	-		0.00044	U
Endosulfan-II	470	7800	NC	NC	NC	0.00053	U	-		0.00042	U	0.00042	U	0.0021	U	-		0.00044	U
Heptachlor	0.15	0.81	NC	NC	0.083	0.00053	U	-		0.00042	U	0.00042	U	0.0021	U	-		0.00044	U
Heptachlor epoxide	0.076	0.4	NC	NC	0.081	0.00035	J	-		0.00018 [c]	J	0.00024 [c]	J	0.0021	U	-		0.00030 [c]	J
Methoxychlor	320	4600	NC	NC	NC	0.00053	U	-		0.00042	U	0.00042	U	0.0021	U	-		0.00044	U
Endrin ketone	NC	NC	NC	NC	NC	0.00053	U	-		0.00042	U	0.00042	U	0.0021	U	-		0.00044	U
Toxaphene	0.49	2.3	NC	NC	6.2	0.0066	U	-		0.0052	U	0.0053	U	0.026	U	-		0.0055	U

Notes:

All analytical results for soil in milligrams per kilogram (mg/kg)

ft, bgs= feet below ground surface

All sample depths presented in ft, bgs

[c] More than 40 % RPD for detected concentrations between the two GC columns.

[d] Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.

More than 40% RPD for detected concentrations between the two GC columns.

[e] Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.

B = Indicates analyte found in associated method blank

J = Estimated concentration below laboratory reporting limit

NC = No criteria established for this contaminant

U = Denotes parameters analyzed for but not detected; value shown is the laboratory reporting limit

- = Not Analyzed

Unsaturated soil samples compared to NJDEP's May 2021 Default Migration to Groundwater Soil Remediation Standards

NJ-MGWSRS = New Jersey 2021 Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria

NJ-NRISRS = New Jersey 2021 Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-NRIDSRS = New Jersey 2021 Non-Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

NJ-RISRS = New Jersey 2021 Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-RIDSRS = New Jersey 2021 Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

Bold and italic	Reporting limit exceeds NJDEP's most stringent standard
Bold and italic	Exceeds the NJDEP MGWSRS/AR-MGWSRS
Bold	Exceeds NJDEP RIDSRS/RISRS
Bold and underline	Exceeds NJDEP NRIDSRS/NRISRS

Table - 2
Berm Soil Analytical Resuts - Pesticides
Ridgewood Village Historic Site
460 West Saddle River Road, Village of Ridgewood, New Jersey
23-1429

Client Sample ID:	NJ Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Ingestion Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	SB-8		SB-9		SB-10		SB-11		SB-12		SB-13		SB-14		DUPE 1		DUPE 2	
Lab Sample ID:						JD87833-8		JD87833-9		JD87833-10		JD87833-11		JD87833-12		JD87833-13		JD87833-14		JD87833-15		JD87833-16	
Date Sampled:						5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024	
Sample Depth (ft, bgs):						3.0 - 3.5		3.5 - 4.0		3.0 - 3.5		2.5 - 3.0		3.0 - 3.5		3.0 - 3.5		3.0 - 3.5		2.0 - 2.5		2.5 - 3.0	
Saturated (S)/Unsaturated (US):						US		US		US		US		US		US		US		US		US	
Matrix:						Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Pesticides																							
Aldrin	0.041	0.21	NC	NC	0.13	0.00041	U	-		0.00043	U	0.00043	U	0.00043	U	-		0.00042	U	0.00043	U	0.00042	U
alpha-BHC	0.086	0.41	NC	NC	0.0023	0.00041	U	-		0.00043	U	0.00043	U	0.00043	U	-		0.00042	U	0.00043	U	0.00042	U
beta-BHC	0.3	1.4	NC	NC	0.0046	0.00013 [c]	JB	-		0.00015	JB	0.00043	U	0.00043	U	-		0.000090 [c]	JB	0.00013 [c]	JB	0.00042	U
delta-BHC	NC	NC	NC	NC	NC	0.00041	U	-		0.00043	U	0.00043	U	0.00043	U	-		0.00042	U	0.00043	U	0.00042	U
gamma-BHC (Lindane)	0.57	2.8	NC	NC	0.0035	0.00041	U	-		0.00043	U	0.00043	U	0.00043	U	-		0.00042	U	0.00043	U	0.00042	U
alpha-Chlordane	0.27	1.4	NC	NC	1.4	0.00055		-		0.00017 [c]	J	0.00099 [c]		0.00043	U	-		0.0044 [c]		0.00015	J	0.0013	
gamma-Chlordane	0.27	1.4	NC	NC	1.4	0.00021 [c]	J	-		0.00043	U	0.00034 [c]	J	0.00043	U	-		0.0026		0.00043	U	0.00068	
Chlordane (alpha and gamma)	0.27	1.4	NC	NC	1.4	0.00076		-		0.00017	J	0.0013		0.00043	U	-		0.0069		0.00015	J	0.002	
Dieldrin	0.034	0.16	NC	NC	0.024	0.00041	U	-		0.00043	U	0.00043	U	0.00043	U	-		0.00061		0.00043	U	0.00028	J
4,4'-DDD	2.3	11	NC	NC	0.47	0.0005		-		0.00017	J	0.00069		0.00043	U	-		0.004		0.00021 [c]	J	0.00073 [c]	
4,4'-DDE	2	11	NC	NC	0.47	0.00022 [c]	J	-		0.00024	J	0.0055		0.00043	U	-		0.009		0.00043	U	0.0044	
4,4'-DDT	1.9	9.5	NC	NC	0.67	0.00045 [c]		-		0.000090 [c]	J	0.0017 [e]		0.00043	U	-		0.0029 [e]		0.00027 [c]	J	0.00093 [d]	
Endrin	19	270	NC	NC	1.6	0.00041	U	-		0.00043	U	0.00043	U	0.00043	U	-		0.00042	U	0.00043	U	0.00042	U
Endosulfan sulfate	NC	NC	NC	NC	NC	0.00041	U	-		0.00043	U	0.00043	U	0.00043	U	-		0.00042	U	0.00043	U	0.00042	U
Endrin aldehyde	NC	NC	NC	NC	NC	0.00041	U	-		0.00043	U	0.00043	U	0.00043	U	-		0.00042	U	0.00043	U	0.00042	U
Endosulfan-I	470	7800	NC	NC	NC	0.00041	U	-		0.00043	U	0.00043	U	0.00043	U	-		0.00042	U	0.00043	U	0.00042	U
Endosulfan-II	470	7800	NC	NC	NC	0.00041	U	-		0.00043	U	0.00043	U	0.00043	U	-		0.00042	U	0.00043	U	0.00042	U
Heptachlor	0.15	0.81	NC	NC	0.083	0.00041	U	-		0.00043	U	0.00043	U	0.00043	U	-		0.00042	U	0.00043	U	0.00042	U
Heptachlor epoxide	0.076	0.4	NC	NC	0.081	0.00016 [c]	J	-		0.00043	U	0.00043	U	0.00043	U	-		0.00076 [c]		0.00043	U	0.00034	J
Methoxychlor	320	4600	NC	NC	NC	0.00041	U	-		0.00043	U	0.00043	U	0.00043	U	-		0.00042	U	0.00043	U	0.00042	U
Endrin ketone	NC	NC	NC	NC	NC	0.00041	U	-		0.00043	U	0.00043	U	0.00043	U	-		0.00042	U	0.00043	U	0.00042	U
Toxaphene	0.49	2.3	NC	NC	6.2	0.0052	U	-		0.0054	U	0.0054	U	0.0054	U	-		0.0052	U	0.0054	U	0.0052	U

Notes:

All analytical results for soil in milligrams per kilogram (mg/kg)

ft, bgs= feet below ground surface

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[c] More than 40 % RPD for detected concentrations between the two GC columns.

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More than 40% RPD for detected concentrations between the two GC columns.

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Unsaturated soil samples compared to NJDEP's May 2021 Default Migration to Groundwater Soil Remediation Standards

NJ-MGWSRS = New Jersey 2021 Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria

NJ-NRISRS = New Jersey 2021 Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-NRIDSRS = New Jersey 2021 Non-Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

NJ-RISRS = New Jersey 2021 Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-RIDSRS = New Jersey 2021 Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

Bold and italic	Reporting limit exceeds NJDEP's most stringent standard
Bold and italic	Exceeds the NJDEP MGWSRS/AR-MGWSRS
Bold	Exceeds NJDEP RIDSRS/RISRS
Bold and underline	Exceeds NJDEP NRIDSRS/NRISRS

Table - 2
Berm Soil Analytical Resuts - PCBs and General Chemistry
Ridgewood Village Historic Site
460 West Saddle River Road, Village of Ridgewood, New Jersey
23-1429

Client Sample ID:	NJ Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Ingestion Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	SB-1		SB-2		SB-3		SB-4		SB-5		SB-6		SB-7	
Lab Sample ID:						JD87833-1		JD87833-2		JD87833-3		JD87833-4		JD87833-5		JD87833-6		JD87833-7	
Date Sampled:						5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024	
Sample Depth (ft, bgs):						2.0 - 2.5		2.0 - 2.5		2.5 - 3.0		2.5 - 3.0		2.0 - 2.5		2.5 - 3.0		2.0 - 2.5	
Saturated (S)/Unsaturated (US):						US		US		US		US		US		US		US	
Matrix:						Soil		Soil		Soil		Soil		Soil		Soil		Soil	
PCBs																			
Aroclor 1016	0.25	1.1	NC	NC	1.6	0.026	U	-		0.021	U	0.021	U	0.021	U	-		0.022	U
Aroclor 1221	0.25	1.1	NC	NC	1.6	0.026	U	-		0.021	U	0.021	U	0.021	U	-		0.022	U
Aroclor 1232	0.25	1.1	NC	NC	1.6	0.026	U	-		0.021	U	0.021	U	0.021	U	-		0.022	U
Aroclor 1242	0.25	1.1	NC	NC	1.6	0.026	U	-		0.021	U	0.021	U	0.021	U	-		0.022	U
Aroclor 1248	0.25	1.1	NC	NC	1.6	0.026	U	-		0.021	U	0.021	U	0.021	U	-		0.022	U
Aroclor 1254	0.25	1.1	NC	NC	1.6	0.026	U	-		0.021	U	0.021	U	0.021	U	-		0.022	U
Aroclor 1260	0.25	1.1	NC	NC	1.6	0.026	U	-		0.021	U	0.021	U	0.021	U	-		0.022	U
Aroclor 1268	0.25	1.1	NC	NC	1.6	0.026	U	-		0.021	U	0.021	U	0.021	U	-		0.022	U
Aroclor 1262	0.25	1.1	NC	NC	1.6	0.026	U	-		0.021	U	0.021	U	0.021	U	-		0.022	U
General Chemistry																			
Solids, Percent	NC	NC	NC	NC	NC	71.4		89.1		88.5		87.6		89.7		88.8		91.2	

Notes:

All analytical results for soil in milligrams per kilogram (mg/kg)

ft, bgs= feet below ground surface

All sample depths presented in ft, bgs

NC = No criteria established for this contaminant

U = Denotes parameters analyzed for but not detected; value shown is the laboratory reporting limit

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PCBs = Polychlorinated Biphenyls

Unsaturated soil samples compared to NJDEP's May 2021 Default Migration to Groundwater Soil Remediation Standards

NJ-MGWSRS = New Jersey 2021 Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria

NJ-NRISRS = New Jersey 2021 Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-NRIDSRS = New Jersey 2021 Non-Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

NJ-RISRS = New Jersey 2021 Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-RIDSRS = New Jersey 2021 Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

Bold and italic	Reporting limit exceeds NJDEP's most stringent standard
Bold and italic	Exceeds the NJDEP MGWSRS/AR-MGWSRS
Bold	Exceeds NJDEP RIDSRS/RISRS
Bold and underline	Exceeds NJDEP NRIDSRS/NRISRS

Table - 2
Berm Soil Analytical Resuts - PCBs and General Chemistry
Ridgewood Village Historic Site
460 West Saddle River Road, Village of Ridgewood, New Jersey
23-1429

Client Sample ID:	NJ Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Ingestion Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	SB-8		SB-9		SB-10		SB-11		SB-12		SB-13		SB-14		DUPE 1		DUPE 2	
Lab Sample ID:						JD87833-8		JD87833-9		JD87833-10		JD87833-11		JD87833-12		JD87833-13		JD87833-14		JD87833-15		JD87833-16	
Date Sampled:						5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024	
Sample Depth (ft, bgs):						3.0 - 3.5		3.5 - 4.0		3.0 - 3.5		2.5 - 3.0		3.0 - 3.5		3.0 - 3.5		3.0 - 3.5		2.0 - 2.5		2.5 - 3.0	
Saturated (S)/Unsaturated (US):						US		US		US		US		US		US		US		US		US	
Matrix:						Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
PCBs																							
Aroclor 1016	0.25	1.1	NC	NC	1.6	0.021	U	-		0.022	U	0.022	U	0.022	U	-		0.021	U	0.022	U	0.021	U
Aroclor 1221	0.25	1.1	NC	NC	1.6	0.021	U	-		0.022	U	0.022	U	0.022	U	-		0.021	U	0.022	U	0.021	U
Aroclor 1232	0.25	1.1	NC	NC	1.6	0.021	U	-		0.022	U	0.022	U	0.022	U	-		0.021	U	0.022	U	0.021	U
Aroclor 1242	0.25	1.1	NC	NC	1.6	0.021	U	-		0.022	U	0.022	U	0.022	U	-		0.021	U	0.022	U	0.021	U
Aroclor 1248	0.25	1.1	NC	NC	1.6	0.021	U	-		0.022	U	0.022	U	0.022	U	-		0.021	U	0.022	U	0.021	U
Aroclor 1254	0.25	1.1	NC	NC	1.6	0.021	U	-		0.022	U	0.022	U	0.022	U	-		0.021	U	0.022	U	0.021	U
Aroclor 1260	0.25	1.1	NC	NC	1.6	0.021	U	-		0.022	U	0.022	U	0.022	U	-		0.021	U	0.022	U	0.021	U
Aroclor 1268	0.25	1.1	NC	NC	1.6	0.021	U	-		0.022	U	0.022	U	0.022	U	-		0.021	U	0.022	U	0.021	U
Aroclor 1262	0.25	1.1	NC	NC	1.6	0.021	U	-		0.022	U	0.022	U	0.022	U	-		0.021	U	0.022	U	0.021	U
General Chemistry																							
Solids, Percent	NC	NC	NC	NC	NC	91.1		81.5		84.2		87.7		85.7		85.7		90.7		90.9		91.8	

Notes:

All analytical results for soil in milligrams per kilogram (mg/kg)

ft, bgs= feet below ground surface

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NC = No criteria established for this contaminant

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NJ-NRISRS = New Jersey 2021 Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-NRIDSRS = New Jersey 2021 Non-Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

NJ-RISRS = New Jersey 2021 Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-RIDSRS = New Jersey 2021 Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

Bold and italic	Reporting limit exceeds NJDEP's most stringent standard
Bold and italic	Exceeds the NJDEP MGWSRS/AR-MGWSRS
Bold	Exceeds NJDEP RIDSRS/RISRS
Bold and underline	Exceeds NJDEP NRIDSRS/NRISRS

Table - 2
Berm Soil Analytical Resuts - Metals
Ridgewood Village Historic Site
460 West Saddle River Road, Village of Ridgewood, New Jersey
23-1429

Client Sample ID:	NJ Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Ingestion Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	SB-1		SB-2		SB-3		SB-4		SB-5		SB-6		SB-7	
Lab Sample ID:						JD87833-1		JD87833-2		JD87833-3		JD87833-4		JD87833-5		JD87833-6		JD87833-7	
Date Sampled:						5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024	
Sample Depth (ft, bgs):						2.0 - 2.5		2.0 - 2.5		2.5 - 3.0		2.5 - 3.0		2.0 - 2.5		2.5 - 3.0		2.0 - 2.5	
Saturated (S)/Unsaturated (US):						US		US		US		US		US		US		US	
Matrix:						Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Metals																			
Aluminum	78000	NC	NC	NC	NC	11000		5830		7040		6940		7830		7860		8010	
Antimony	31	520	NC	NC	5.4	2.7	U	2.2	U	2.2	U	2.2	U	2.3	U	2.3	U	2.3	U
Arsenic	19	19	1100	5200	19	5.1		2.4		2.4		2.4		2.4		2.5		2.7	
Barium	16000	260000	870000	NC	2100	53.6		24.2		28.8		25.8		29.2		29.8		33.7	
Beryllium	160	2600	2000	9300	0.7	0.4		0.24		0.28		0.27		0.3		0.29		0.31	
Cadmium	71	1100	2600	12000	1.9	0.69	U	0.54	U	0.56	U	0.56	U	0.57	U	0.56	U	0.58	U
Calcium	NC	NC	NC	NC	NC	3000		1240		1560		1220		1450		1530		1710	
Chromium	NC	NC	NC	NC	NC	18		8.7		9.4		8.6		9.8		16		9.7	
Cobalt	23	390	520	2500	90	6.9	U	5.4	U	5.6	U	5.6	U	5.7	U	5.6	U	5.8	U
Copper	3100	52000	NC	NC	910	18.4		7.5		9.3		8.3		9.1		60.6		10.2	
Iron	NC	NC	NC	NC	NC	15600		10200		11400		10900		11900		12400		12500	
Lead	400	800	NC	NC	*169	169		13.7		13.1		17.2		9.8		13.6		13.1	
Magnesium	NC	NC	NC	NC	NC	2070		1340		1600		1510		1880		2740		1860	
Manganese	1900	31000	87000	400000	NC	333		164		226		178		213		200		255	
Mercury	23	390	520000	NC	*0.29	0.29		0.054		0.032	U	0.029	U	0.029	U	0.029	U	0.032	U
Nickel	1600	26000	20000	93000	48	12.6		6.6		7.9		7.2		8.5		9.7		8.6	
Potassium	NC	NC	NC	NC	NC	1400	U	1100	U	1100	U	1100	U	1100	U	1100	U	1200	U
Selenium	390	6500	NC	NC	11	2.7	U	2.2	U	2.2	U	2.2	U	2.3	U	2.3	U	2.3	U
Silver	390	6500	NC	NC	0.5	0.69	U	0.54	U	0.56	U	0.56	U	0.57	U	0.56	U	0.58	U
Sodium	NC	NC	NC	NC	NC	1400	U	1100	U	1100	U	1100	U	1100	U	1100	U	1200	U
Thallium	NC	NC	NC	NC	NC	1.4	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.2	U
Vanadium	390	6500	170000	800000	NC	32.1		16.9		20.2		18.7		18.7		20.8		20.5	
Zinc	23000	390000	NC	NC	930	74.8		26.9		29		26.9		27.3		30.4		30	

Notes:

All analytical results for soil in milligrams per kilogram (mg/kg)

Site Specific Migration to Groundwater Soil Remediation Standard (MGWSRS) was calculated for lead and mercury using NJDEP's SPLP Spreadsheet, V1.0, May 2021.

ft, bgs= feet below ground surface

All sample depths presented in ft, bgs

NC = No criteria established for this contaminant

U = Denotes parameters analyzed for but not detected; value shown is the laboratory reporting limit

- = Not Analyzed

Unsaturated soil samples compared to MGWSRS/AR-MGWSRS

* = AR-MGWSRS utilized as standard

AR-MGWSRS = Alternative Remediation - Migration to Groundwater Soil Remediation Standard

NJ-MGWSRS = New Jersey 2021 Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria

NJ-NRISRS = New Jersey 2021 Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-NRIDSRS = New Jersey 2021 Non-Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

NJ-RISRS = New Jersey 2021 Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-RIDSRS = New Jersey 2021 Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

Bold and italic	Reporting limit exceeds NJDEP's most stringent standard
Bold and italic	Exceeds the NJDEP MGWSRS/AR-MGWSRS
Bold	Exceeds NJDEP RIDSRS/RISRS
Bold and underline	Exceeds NJDEP NRIDSRS/NRISRS

Table - 2
Berm Soil Analytical Resuts - Metals
Ridgewood Village Historic Site
460 West Saddle River Road, Village of Ridgewood, New Jersey
23-1429

Client Sample ID:	NJ Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Ingestion Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	SB-8		SB-9		SB-10		SB-11		SB-12		SB-13		SB-14		DUPE 1		DUPE 2	
Lab Sample ID:						JD87833-8		JD87833-9		JD87833-10		JD87833-11		JD87833-12		JD87833-13		JD87833-14		JD87833-15		JD87833-16	
Date Sampled:						5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024		5/3/2024	
Sample Depth (ft, bgs):						3.0 - 3.5		3.5 - 4.0		3.0 - 3.5		2.5 - 3.0		3.0 - 3.5		3.0 - 3.5		3.0 - 3.5		2.0 - 2.5		2.5 - 3.0	
Saturated (S)/Unsaturated (US):						US		US		US		US		US		US		US		US		US	
Matrix:						Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Metals																							
Aluminum	78000	NC	NC	NC	NC	6880		11300		14000		8260		16600		18600		7700		7590		7630	
Antimony	31	520	NC	NC	5.4	2.2	U	2.5	U	2.3	U	2.3	U	2.4	U	2.3	U	2.1	U	2.3	U	2.1	U
Arsenic	19	19	1100	5200	19	2.6		4.8		4.3		3		5.1		5.4		3.8		2.5		3.2	
Barium	16000	260000	870000	NC	2100	24.1		54.4		37.8		36.3		46.4		45.8		33		24.8		31.3	
Beryllium	160	2600	2000	9300	0.7	0.29		0.43		0.45		0.35		0.58		0.5		0.29		0.29		0.3	
Cadmium	71	1100	2600	12000	1.9	0.55	U	0.63	U	0.58	U	0.57	U	0.6	U	0.57	U	0.54	U	0.58	U	0.53	U
Calcium	NC	NC	NC	NC	NC	1120		1760		817		1840		600	U	905		1770		942		2440	
Chromium	NC	NC	NC	NC	NC	8.5		14.2		13.8		11.9		15.6		18.9		10.2		8.9		10.9	
Cobalt	23	390	520	2500	90	5.5	U	6.3	U	5.8	U	5.7	U	6	U	5.7		5.4	U	5.8	U	5.3	U
Copper	3100	52000	NC	NC	910	7.9		15.8		6.8		12.9		7.6		8.6		10.9		8		9.5	
Iron	NC	NC	NC	NC	NC	11000		14200		14500		13500		17000		20200		11200		10600		10500	
Lead	400	800	NC	NC	*169	10.2		71.1		17.7		28.9		21.1		16		26.5		58.7		30.2	
Magnesium	NC	NC	NC	NC	NC	1590		1920		1770		1870		2110		2680		1640		1440		1550	
Manganese	1900	31000	87000	400000	NC	197		314		201		225		391		257		225		144		211	
Mercury	23	390	520000	NC	*0.29	0.035	U	0.19		0.041		0.065		0.072		0.036		0.17		0.03	U	0.15	
Nickel	1600	26000	20000	93000	48	7.6		11.3		10.5		9.1		12.3		13.5		8.1		7.7		7.6	
Potassium	NC	NC	NC	NC	NC	1100	U	1300	U	1200	U	1100	U	1200	U	1100	U	1100	U	1200	U	1100	U
Selenium	390	6500	NC	NC	11	2.2	U	2.5	U	2.3	U	2.3	U	2.4	U	2.3	U	2.1	U	2.3	U	2.1	U
Silver	390	6500	NC	NC	0.5	0.55	U	0.63	U	0.58	U	0.57	U	0.6	U	0.57	U	0.54	U	0.58	U	0.53	U
Sodium	NC	NC	NC	NC	NC	1100	U	1300	U	1200	U	1100	U	1200	U	1100	U	1100	U	1200	U	1100	U
Thallium	NC	NC	NC	NC	NC	1.1	U	1.3	U	1.2	U	1.1	U	1.2	U	1.1	U	1.1	U	1.2	U	1.1	U
Vanadium	390	6500	170000	800000	NC	16.9		25.2		22.6		20.5		25.8		31.5		17.8		21.9		17.4	
Zinc	23000	390000	NC	NC	930	25.8		67.5		35.2		47.2		43		44		42.3		28.7		36.3	

Notes:

All analytical results for soil in milligrams per kilogram (mg/kg)

Site Specific Migration to Groundwater Soil Remediation Standard (MGWSRS) was calculated for lead and mercury using NJDEP's SPLP Spreadsheet, V1.0, May 2021.

ft, bgs= feet below ground surface

All sample depths presented in ft, bgs

NC = No criteria established for this contaminant

U = Denotes parameters analyzed for but not detected; value shown is the laboratory reporting limit

- = Not Analyzed

Unsaturated soil samples compared to MGWSRS/AR-MGWSRS

* = AR-MGWSRS utilized as standard

AR-MGWSRS = Alternative Remediation - Migration to Groundwater Soil Remediation Standard

NJ-MGWSRS = New Jersey 2021 Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria

NJ-NRISRS = New Jersey 2021 Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-NRIDSRS = New Jersey 2021 Non-Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

NJ-RISRS = New Jersey 2021 Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-RIDSRS = New Jersey 2021 Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

Bold and italic	Reporting limit exceeds NJDEP's most stringent standard
Bold and italic	Exceeds the NJDEP MGWSRS/AR-MGWSRS
Bold	Exceeds NJDEP RIDSRS/RISRS
Bold and underline	Exceeds NJDEP NRIDSRS/NRISRS

Table - 2
Berm Soil Analytical Resuts - SPLP
Ridgewood Village Historic Site
460 West Saddle River Road, Village of Ridgewood, New Jersey
23-1429

Client Sample ID:	**Leachate Remediation Standard Migration to GW Exp. Path (NJAC 7:26D 5/21)**	**SB-1**		**SB-4**		**SB-5**		**SB-6**		**SB-9**		**SB-11**		**SB-14**		**DUPE 1**	
Lab Sample ID:		**JD87833-1**		**JD87833-4**		**JD87833-5**		**JD87833-6**		**JD87833-9**		**JD87833-11**		**JD87833-14**		**JD87833-15**	
Date Sampled:		**5/3/2024**		**5/3/2024**		**5/3/2024**		**5/3/2024**		**5/3/2024**		**5/3/2024**		**5/3/2024**		**5/3/2024**	
Sample Depth (ft, bgs):		**2.0 - 2.5**		**2.5 - 3.0**		**2.0 - 2.5**		**2.5 - 3.0**		**3.5 - 4.0**		**2.5 - 3.0**		**3.0 - 3.5**		**2.0 - 2.5**	
Saturated (S)/Unsaturated (US):		**US**		**US**		**US**		**US**		**US**		**US**		**US**		**US**	
Matrix:		**Soil**		**Soil**		**Soil**		**Soil**		**Soil**		**Soil**		**Soil**		**Soil**	
SVOCs																	
Benzo(a)anthracene	2	-		0.0785	J	0.0483	J	0.104		-		-		-		0.153	
Metals																	
Lead	100	50	U	-		-		-		50	U	50	U	-		-	
Mercury	40	0.0002	U	-		-		-		0.0002	U	-		0.2	U	-	
General Chemistry																	
pH, SPLP Leachate (su)	NC	9.38		9.49		8.91		9.53		10.02		9.65		6.8		8.15	
Volume, SPLP Leachate (L)	NC	2.013		2.002		3.005		2.016		2.002		2		2.006		2.002	
Weight, SPLP Leachate (kg)	NC	0.1006		0.1001		0.1002		0.1008		0.1001		0.1		0.1003		0.1001	
Dry Weight, SPLP Leachate (kg)	NC	0.07185		0.08771		0.08991		0.08951		0.08158		0.0877		0.09097		0.09099	

Notes:

All analytical results for soil in micrograms per liter (ug/L)

ft, bgs= feet below ground surface

All sample depths presented in ft, bgs

SPLP = Synthetic Precipitation Leachate Procedure

J = Estimated concentration below laboratory reporting limit

NC = No criteria established for this contaminant

U = Denotes parameters analyzed for but not detected; value shown is the laboratory reporting limit

- = Not Analyzed

SVOCs = Semi-Volatile Organic Compounds

Bold and italic	Reporting limit exceeds NJDEP's most stringent standard
Bold and italic	Exceeds the NJDEP Leachate MGWSRS

Table - 2
Berm Soil Analytical Resuts - Field Blank SVOCs
Ridgewood Village Historic Site
460 West Saddle River Road, Village of Ridgewood, New Jersey
23-1429

Client Sample ID:	NJ Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Ingestion Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	FIELD BLANK		FIELD BLANK	
Lab Sample ID:						JD87833-17		JD87833-17R	
Date Sampled:						5/3/2024		5/3/2024	
Dilution Factor:						1		1	
Matrix:						Field Blank		Field Blank	
SVOCs									
2-Chlorophenol	NC	NC	NC	NC	NC	5	U	-	
4-Chloro-3-methyl phenol	NC	NC	NC	NC	NC	5	U	-	
2,4-Dichlorophenol	NC	NC	NC	NC	NC	2	U	-	
2,4-Dimethylphenol	NC	NC	NC	NC	NC	5	U	-	
2,4-Dinitrophenol	NC	NC	NC	NC	NC	5.0 [a]	U	-	
4,6-Dinitro-o-cresol	NC	NC	NC	NC	NC	5.0 [a]	U	-	
2-Methylphenol	NC	NC	NC	NC	NC	2	U	-	
3&4-Methylphenol	NC	NC	NC	NC	NC	2	U	-	
2-Nitrophenol	NC	NC	NC	NC	NC	5.0 [a]	U	-	
4-Nitrophenol	NC	NC	NC	NC	NC	10	U	-	
Pentachlorophenol	NC	NC	NC	NC	NC	4.0 [a]	U	-	
Phenol	NC	NC	NC	NC	NC	2	U	-	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	NC	NC	5.0 [a]	U	-	
2,4,5-Trichlorophenol	NC	NC	NC	NC	NC	5	U	-	
2,4,6-Trichlorophenol	NC	NC	NC	NC	NC	5	U	-	
Acenaphthene	NC	NC	NC	NC	NC	1	U	-	
Acenaphthylene	NC	NC	NC	NC	NC	1	U	-	
Acetophenone	NC	NC	NC	NC	NC	2	U	-	
Anthracene	NC	NC	NC	NC	NC	1	U	-	
Atrazine	NC	NC	NC	NC	NC	2	U	-	
Benzo(a)anthracene	NC	NC	NC	NC	NC	5	U	-	
Benzo(a)pyrene	NC	NC	NC	NC	NC	1	U	-	
Benzo(b)fluoranthene	NC	NC	NC	NC	NC	1	U	-	
Benzo(g,h,i)perylene	NC	NC	NC	NC	NC	1	U	-	
Benzo(k)fluoranthene	NC	NC	NC	NC	NC	1	U	-	
4-Bromophenyl phenyl ether	NC	NC	NC	NC	NC	1	U	-	
Butyl benzyl phthalate	NC	NC	NC	NC	NC	2	U	-	
1,1'-Biphenyl	NC	NC	NC	NC	NC	2.0 [a]	U	-	
Benzaldehyde	NC	NC	NC	NC	NC	1	U	-	
2-Chloronaphthalene	NC	NC	NC	NC	NC	2	U	-	
4-Chloroaniline	NC	NC	NC	NC	NC	5	U	-	
Carbazole	NC	NC	NC	NC	NC	1	U	-	
Caprolactam	NC	NC	NC	NC	NC	2	U	-	
Chrysene	NC	NC	NC	NC	NC	1	U	-	
bis(2-Chloroethoxy)methane	NC	NC	NC	NC	NC	2	U	-	
bis(2-Chloroethyl)ether	NC	NC	NC	NC	NC	2	U	-	
2,2'-Oxybis(1-chloropropane)	NC	NC	NC	NC	NC	2	U	-	
4-Chlorophenyl phenyl ether	NC	NC	NC	NC	NC	2	U	-	
2,4-Dinitrotoluene	NC	NC	NC	NC	NC	1	U	-	
2,6-Dinitrotoluene	NC	NC	NC	NC	NC	1	U	-	
3,3'-Dichlorobenzidine	NC	NC	NC	NC	NC	2.0 [a]	U	-	
1,4-Dioxane	NC	NC	NC	NC	NC	1	U	-	
Dibenzo(a,h)anthracene	NC	NC	NC	NC	NC	1	U	-	
Dibenzofuran	NC	NC	NC	NC	NC	5	U	-	
Di-n-butyl phthalate	NC	NC	NC	NC	NC	2	U	-	
Di-n-octyl phthalate	NC	NC	NC	NC	NC	2.0 [a]	U	-	
Diethyl phthalate	NC	NC	NC	NC	NC	2	U	-	
Dimethyl phthalate	NC	NC	NC	NC	NC	2	U	-	
bis(2-Ethylhexyl)phthalate	NC	NC	NC	NC	NC	2	U	-	
Fluoranthene	NC	NC	NC	NC	NC	1	U	-	
Fluorene	NC	NC	NC	NC	NC	1	U	-	
Hexachlorobenzene	NC	NC	NC	NC	NC	1	U	-	
Hexachlorobutadiene	NC	NC	NC	NC	NC	1	U	-	
Hexachlorocyclopentadiene	NC	NC	NC	NC	NC	10	U	-	
Hexachloroethane	NC	NC	NC	NC	NC	2	U	-	
Indeno(1,2,3-cd)pyrene	NC	NC	NC	NC	NC	1	U	-	
Isophorone	NC	NC	NC	NC	NC	2	U	-	
2-Methylnaphthalene	NC	NC	NC	NC	NC	1	U	-	
2-Nitroaniline	NC	NC	NC	NC	NC	5	U	-	
3-Nitroaniline	NC	NC	NC	NC	NC	5	U	-	
4-Nitroaniline	NC	NC	NC	NC	NC	5	U	-	
Naphthalene	NC	NC	NC	NC	NC	1	U	-	
Nitrobenzene	NC	NC	NC	NC	NC	2	U	-	
N-Nitroso-di-n-propylamine	NC	NC	NC	NC	NC	2	U	-	
N-Nitrosodiphenylamine	NC	NC	NC	NC	NC	5	U	-	
Phenanthrene	NC	NC	NC	NC	NC	1	U	-	
Pyrene	NC	NC	NC	NC	NC	1	U	-	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	NC	NC	2	U	-	
Total TIC, Semi-Volatile	NC	NC	NC	NC	NC	7.8	J	-	

Notes:
All analytical results for field blank in micrograms per liter (ug/L)
[a] Associated CCV outside of control limits high, sample was ND.
J = Estimated concentration below laboratory reporting limit
NC = No criteria established for this contaminant
U = Denotes parameters analyzed for but not detected; value shown is the laboratory reporting limit
- = Not Analyzed
SVOCs = Semi-Volatile Organic Compounds
Unsaturated soil samples compared to NJDEP's May 2021 Default Migration to Groundwater Soil Remediation Standards
NJ-MGWSRS = New Jersey 2021 Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria
NJ-NRISRS = New Jersey 2021 Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria
NJ-NRIDSRS = New Jersey 2021 Non-Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria
NJ-RISRS = New Jersey 2021 Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria
NJ-RIDSRS = New Jersey 2021 Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

Bold and italic	Reporting limit exceeds NJDEP's most stringent standard
Bold and italic	Exceeds the NJDEP MGWSRS/AR-MGWSRS
Bold	Exceeds NJDEP RIDSRS/RISRS
Bold and underline	Exceeds NJDEP NRIDSRS/NRISRS

Table - 2
Berm Soil Analytical Resuts - Field Blank Pesticides
Ridgewood Village Historic Site
460 West Saddle River Road, Village of Ridgewood, New Jersey
23-1429

Client Sample ID:	NJ Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Ingestion Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	FIELD BLANK		FIELD BLANK	
Lab Sample ID:						JD87833-17		JD87833-17R	
Date Sampled:						5/3/2024		5/3/2024	
Dilution Factor:						1		1	
Matrix:						Field Blank		Field Blank	
Pesticides									
Aldrin	NC	NC	NC	NC	NC	0.008	U	0.0067	U
alpha-BHC	NC	NC	NC	NC	NC	0.008	U	0.0067	U
beta-BHC	NC	NC	NC	NC	NC	0.008	U	0.0067	U
delta-BHC	NC	NC	NC	NC	NC	0.008	U	0.0067	U
gamma-BHC (Lindane)	NC	NC	NC	NC	NC	0.008	U	0.0067	U
alpha-Chlordane	NC	NC	NC	NC	NC	0.008	U	0.0067	U
gamma-Chlordane	NC	NC	NC	NC	NC	0.008	U	0.0067	U
Chlordane (alpha and gamma)	NC	NC	NC	NC	NC	0.008	U	0.0067	U
Dieldrin	NC	NC	NC	NC	NC	0.008	U	0.0067	U
4,4'-DDD	NC	NC	NC	NC	NC	0.008	U	0.0067	U
4,4'-DDE	NC	NC	NC	NC	NC	0.008	U	0.0067	U
4,4'-DDT	NC	NC	NC	NC	NC	0.02	B	0.0048	J
Endrin	NC	NC	NC	NC	NC	0.008	U	0.0067	U
Endosulfan sulfate	NC	NC	NC	NC	NC	0.008	U	0.0067	U
Endrin aldehyde	NC	NC	NC	NC	NC	0.008	U	0.0067	U
Endrin ketone	NC	NC	NC	NC	NC	0.008	U	0.0067	U
Endosulfan-I	NC	NC	NC	NC	NC	0.008	U	0.0067	U
Endosulfan-II	NC	NC	NC	NC	NC	0.008	U	0.0067	U
Heptachlor	NC	NC	NC	NC	NC	0.008	U	0.0067	U
Heptachlor epoxide	NC	NC	NC	NC	NC	0.008	U	0.0067	U
Methoxychlor	NC	NC	NC	NC	NC	0.016	U	0.013	U
Toxaphene	NC	NC	NC	NC	NC	0.2	U	0.17	U

Notes:
All analytical results for field blank in micrograms per liter (ug/L)
B = Indicates analyte found in associated method blank
J = Estimated concentration below laboratory reporting limit
NC = No criteria established for this contaminant
U = Denotes parameters analyzed for but not detected; value shown is the laboratory reporting limit
- = Not Analyzed
Unsaturated soil samples compared to NJDEP's May 2021 Default Migration to Groundwater Soil Remediation Standards
NJ-MGWSRS = New Jersey 2021 Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria
NJ-NRISRS = New Jersey 2021 Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria
NJ-NRIDSRS = New Jersey 2021 Non-Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria
NJ-RISRS = New Jersey 2021 Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria
NJ-RIDSRS = New Jersey 2021 Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

Bold and italic	Reporting limit exceeds NJDEP's most stringent standard
Bold and italic	Exceeds the NJDEP MGWSRS/AR-MGWSRS
Bold	Exceeds NJDEP RIDSRS/RISRS
Bold and underline	Exceeds NJDEP NRIDSRS/NRISRS

Table - 2
Berm Soil Analytical Resuts - Field Blank PCBs General Chemistry
Ridgewood Village Historic Site
460 West Saddle River Road, Village of Ridgewood, New Jersey
23-1429

Client Sample ID:	NJ Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Ingestion Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	FIELD BLANK		FIELD BLANK	
Lab Sample ID:						JD87833-17		JD87833-17R	
Date Sampled:						5/3/2024		5/3/2024	
Dilution Factor:						1		1	
Matrix:						Field Blank		Field Blank	
PCBs									
Aroclor 1016	NC	NC	NC	NC	NC	0.4	U	-	
Aroclor 1221	NC	NC	NC	NC	NC	0.4	U	-	
Aroclor 1232	NC	NC	NC	NC	NC	0.4	U	-	
Aroclor 1242	NC	NC	NC	NC	NC	0.4	U	-	
Aroclor 1248	NC	NC	NC	NC	NC	0.4	U	-	
Aroclor 1254	NC	NC	NC	NC	NC	0.4	U	-	
Aroclor 1260	NC	NC	NC	NC	NC	0.40 [a]	U	-	
Aroclor 1268	NC	NC	NC	NC	NC	0.4	U	-	
Aroclor 1262	NC	NC	NC	NC	NC	0.4	U	-	
General Chemistry									
Solids, Percent	NC	NC	NC	NC	NC	-		-	

Notes:

All analytical results for field blank in micrograms per liter (ug/L)

[a] Associated CCV outside of control limits high, sample was ND.

NC = No criteria established for this contaminant

U = Denotes parameters analyzed for but not detected; value shown is the laboratory reporting limit

- = Not Analyzed

PCBs = Polychlorinated Biphenyls

Unsaturated soil samples compared to NJDEP's May 2021 Default Migration to Groundwater Soil Remediation Standards

NJ-MGWSRS = New Jersey 2021 Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria

NJ-NRISRS = New Jersey 2021 Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-NRIDSRS = New Jersey 2021 Non-Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

NJ-RISRS = New Jersey 2021 Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-RIDSRS = New Jersey 2021 Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

Bold and italic	Reporting limit exceeds NJDEP's most stringent standard
Bold and italic	Exceeds the NJDEP MGWSRS/AR-MGWSRS
Bold	Exceeds NJDEP RIDSRS/RISRS
Bold and underline	Exceeds NJDEP NRIDSRS/NRISRS

Table - 2
Berm Soil Analytical Resuts - Field Blank Metals
Ridgewood Village Historic Site
460 West Saddle River Road, Village of Ridgewood, New Jersey
23-1429

Client Sample ID:	NJ Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Ingestion Dermal Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	NJ Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria (NJAC 7:26D 5/21)	FIELD BLANK		FIELD BLANK	
Lab Sample ID:						JD87833-17		JD87833-17R	
Date Sampled:						5/3/2024		5/3/2024	
Dilution Factor:						1		1	
Matrix:						Field Blank		Field Blank	
Metals									
Aluminum	NC	NC	NC	NC	NC	200	U	-	
Antimony	NC	NC	NC	NC	NC	6	U	-	
Arsenic	NC	NC	NC	NC	NC	3	U	-	
Barium	NC	NC	NC	NC	NC	200	U	-	
Beryllium	NC	NC	NC	NC	NC	1	U	-	
Cadmium	NC	NC	NC	NC	NC	3	U	-	
Calcium	NC	NC	NC	NC	NC	5000	U	-	
Chromium	NC	NC	NC	NC	NC	10	U	-	
Cobalt	NC	NC	NC	NC	NC	50	U	-	
Copper	NC	NC	NC	NC	NC	10	U	-	
Iron	NC	NC	NC	NC	NC	100	U	-	
Lead	NC	NC	NC	NC	NC	3	U	-	
Magnesium	NC	NC	NC	NC	NC	5000	U	-	
Manganese	NC	NC	NC	NC	NC	15	U	-	
Mercury	NC	NC	NC	NC	NC	0.2	U	-	
Nickel	NC	NC	NC	NC	NC	10	U	-	
Potassium	NC	NC	NC	NC	NC	10000	U	-	
Selenium	NC	NC	NC	NC	NC	10	U	-	
Silver	NC	NC	NC	NC	NC	10	U	-	
Sodium	NC	NC	NC	NC	NC	10000	U	-	
Thallium	NC	NC	NC	NC	NC	10	U	-	
Vanadium	NC	NC	NC	NC	NC	50	U	-	
Zinc	NC	NC	NC	NC	NC	20	U	-	

Notes:

All analytical results for field blank in micrograms per liter (ug/L)

NC = No criteria established for this contaminant

U = Denotes parameters analyzed for but not detected; value shown is the laboratory reporting limit

- = Not Analyzed

Unsaturated soil samples compared to NJDEP's May 2021 Default Migration to Groundwater Soil Remediation Standards

NJ-MGWSRS = New Jersey 2021 Migration to Groundwater Exposure Pathway Soil Remediation Standards Criteria

NJ-NRISRS = New Jersey 2021 Non-Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-NRIDSRS = New Jersey 2021 Non-Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

NJ-RISRS = New Jersey 2021 Residential Inhalation Exposure Pathway Soil Remediation Standards Criteria

NJ-RIDSRS = New Jersey 2021 Residential Ingestion-Dermal Exposure Pathway Soil Remediation Standards Criteria

Bold and italic	Reporting limit exceeds NJDEP's most stringent standard
Bold and italic	Exceeds the NJDEP MGWSRS/AR-MGWSRS
Bold	Exceeds NJDEP RIDSRS/RISRS
Bold and underline	Exceeds NJDEP NRIDSRS/NRISRS

APPENDIX A

NJDEP December 11, 2023 Correspondence

State of New Jersey

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Waste & UST Compliance & Enforcement
Bureau of Solid Waste Compliance & Enforcement
9 Ewing Street
P.O. Box 420, Mail-Code 09-01
Trenton, NJ 08625-0420
Tel.: (609) 292-6305 Fax: (609) 292-4539

SHAWN M. LATOURETTE
Commissioner

Sent via email to:
Keith Kazmark: kkazmark@ridgewoodnj.net
Christopher Rutishauser: crutishauser@ridgewoodnj.net

December 11, 2023

CERTIFIED MAIL – RRR
7022 3330 0001 3350 2709

RE: Ridgewood Village Historic Site at 460 West Saddle River Road
Issues with reported data associated with imported fill
EA ID#: U4347

Gentlemen:

The following evaluation of the analytical data reportedly associated with the soils imported to the referenced site reiterates information from Mr. Chris Rutishauser, Ridgewood Village's Director of Public Works/Village Engineer, followed by a response from NJDEP's Bureau of Solid Waste Compliance & Enforcement (BSWC&E). Further appropriate actions necessary to pursue closure of this solid waste case are also presented.

Ridgewood Explanation for South Broad Street Fill Source:
"I visited this site when the offer of the soil became available. I did not observe an[y] indications of contamination in the soils. The development that generated the material was reviewed by the Village's planning board, for which I am the licensed review engineer. The material required and received a Village of Ridgewood major soil moving permit (planning board approves the permit followed by Village Council approval of the permit). Testing was done on the material in 2018 by Peak Environmental. Peak estimated the quantity of soil at 8,000 cubic yards. Peak collected 14 samples for testing under a reduce[d] sample quantity due to justification. Peak did not note any impacts to the soils sampled. The first three pages of their report submitted explains their protocol and observations. We used this soil as the bulk of the material for the berm construction. The berm was constructed by the Village's Streets Division using several of the Village's rubber tire front end loaders."

BSWC&E Response for Ridgewood Dayton, LLC – 152 South Broad Street fill source:
The estimated 8,000 cubic yard soil source was indicated to be from excavations associated with the demolition of a building at a site that underwent remediation. No description of the remediation nor the potential of environmental impacts from the remediated discharge(s) to have impacted the soils taken to 460 Saddle River Road were discussed, yet the sampling and analyses protocol was reduced by relying on such data to reduce the analytical frequencies per cubic yard as compared to the NJDEP Guidance Document: "Fill Material Guidance for SRP Sites". Based on yet to be explained judgements, the analytical parameters were also further reduced. For example, for a volume of 8,000 cubic yards the aforementioned guidance document suggests that 21 samples be collected and analyzed unless information can be used to reduce such frequency to 14 samples to be analyzed. Yet, the consultant secured analyses from only 4 samples for polychlorinated biphenyls (PCBs, a.k.a. "Aroclors") and only 4 samples for pesticides while providing 14 samples for analyses for EPH, PAHs and Metals. While only 5 samples were analyzed for volatile organic compounds (VOC), field screening using a photoionization detector (PID) revealed no responses and therefore the BSWC&E does not disagree with the limitation of the VOC analyses. However, an explanation regarding the use of the reduced sampling frequencies and further reduction of analytes below those noted in NJDEP guidance has not been provided.

The Conformance/Non-Conformance Summary within the laboratory report submitted to the BSWC&E revealed that, while the instrumentation was operating correctly, sample matrix interference was observed which caused the surrogate recoveries of several of the metals analyzed via method 6010D and several of the semi-volatile organic compounds to produce analytical data which may be biased low.

Ridgewood Explanation for Bergen Community College Site fill source:
"Through a contact, Bergen Community reached out to the Village and inquired if we would like some fill soil. I examined the soils at the college. I did not observe any indication of contamination. On September 27, 2019 ANS Consultants collected 5-point grab samples and subjected them to laboratory analysis. Laboratory results indicated the soils were suitable for the intended use at the Schedler site. The Village received approximately 500 cubic yards of material from the college."

BSWC&E Response for Bergen County Community College fill source:
No discussion on the reason for the excavation at this site was provided. The volume of soil represented by the 5-point composite to one sample is reported at 500 cubic yards. Compositing of such sample, although not preferred, may be acceptable, depending upon the reason for the excavation. The cover letter to the tabulated data indicates that the Department (NJDEP) does not require the Mercury found at 0.615 ppm, which is over the Migration to Ground Water Standard of 0.1 ppm as noted in N.J.A.C. 7:26D, to be addressed unless there is cause to believe that its presence is due to a discharge. However, such policy is applicable only for background conditions or historical fill scenarios where the subject fill is proposed to remain in place and does not address the movement of such fill to another site without a requisite evaluation of the potential impacts of such fill material. That is, the property at 460 Saddle River Road was not undergoing a remediation approved by a Licensed Site Remediation Professional (LSRP) retained pursuant to N.J.A.C. 7:26C at the time the fill was imported. As such, fill was not integrated into a remedial process pursuant to the "Like on Like" – 75 percentile assessment as noted in N.J.A.C. 7:26E-5.2 nor was a site-specific Migration to Ground Water pathway soil remediation standard established pursuant to N.J.A.C. 7:26D. Accordingly, no information has been presented to justify bringing in contaminated fill to a site that may have been uncontaminated prior to the importation of the subject fill materials.

The area(s) at the 460 Saddle River Road site where these soils were distributed are currently unknown to the BSWC&E. Further, there was no laboratory report or Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be evaluated if limited to the information provided.

Ridgewood Explanation for 533 Wyndmere fill source:
"This location was a residential house that was constructing a large addition and reached out to us to see if we were interested in their surplus material. I examined the soil in the field. It was a fine to medium sand, trace silt and would be excellent grading fill for the Schedler project. The site's soil moving permit indicated approximately 280 cubic yards of cut and 40 cubic yards of fill. ANS Consultants collected one sample and subjected it to laboratory analysis on or about May 19, 2021. The results were acceptable for the intended use of the material."

BSWC&E Response for 533 Wyndmere fill source:
One sample from 320 cubic yards of soil and fill excavated from a residential home was analyzed for Target Analyte List and Target Compound List compounds for which the results did not indicate a concern.

The area(s) at the 460 Saddle River Road site where these soils were distributed are currently unknown to the BSWC&E.

There was no laboratory report or Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be evaluated if limited to the information provided.

Ridgewood Water DeBoer Avenue and Route 208 Water Main Installation:
"Trench spoil from this project was made available. On August 9, 2021 Aqua Pro-Tech Laboratories tested one grab sample. The soil was found to be acceptable for its intended use. The site provided approximately 200 cubic yards of fill. This is the one location I did not personally observe the material at its generating source."

BSWC&E Response for Ridgewood Water DeBoer Ave and Rt. 208 Water Main Installation:
It appears that one sample from a reported 200 cubic yard source was analyzed for volatile organic compounds, metals, PCBs and pesticides. No Chain of Custody was submitted. It is not known when the date of analysis was. There was no Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be completely evaluated if limited to the information provided.

However, a concern is noted for sample # 1080405-01 as it displayed a benzo[a]pyrene concentration of at least 0.48 parts per million (ppm) while the Residential Ingestion-Dermal pathway soil remediation standard for this compound is 0.51 ppm. Although the reported result is below the Residential Soil Remediation Standard that triggers the definition of solid waste, because this sample was diluted, presumably to rectify some matrix interference, the result is biased low.

This sample also displayed a mercury concentration of 0.105 ppm. N.J.A.C. 7:26D denotes a Migration to Ground Water pathway standard for Mercury of 0.1 ppm.

This sample also displayed a benzo[a]anthracene concentration of at least 2.60 ppm while N.J.A.C. 7:26D denotes a Migration to Ground Water pathway standard for this compound is 0.71 ppm.

Again, without LSRP interaction pursuant to N.J.A.C. 7:26 C, there was no evaluation of the appropriateness of bringing in contaminated fill to the 460 West Saddle River Road site.

The location(s) where this fill was distributed at 460 West Saddle River Road site has not been disclosed to the BSWC&E.

Ridgewood Explanation for Water Main Replacement Jefferson, William and Salem Streets fill source:
"The source of this material was the spoil from a water main replacement project in the following Village streets: Jefferson Street, William Street, and Salem Street. Work was done by a contractor working for Ridgewood Water Company. I observed the trenching work on several occasions. I did not note any contamination concerns. Three samples were collected, one from each street, and tested by Aqua Pro-tech Laboratories on or about September 22, 2020. Trench was approximately 4,100 linear feet, 2.5-feet wide and 4.5-feet deep for a volume of approximately 1,700 cubic yards of soil."

BSWC&E Response for Jefferson, William and Salem Streets fill source:
There was no Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be completely evaluated if limited to the information provided.

Ridgewood Explanation for the Ridgewood Water Company Spoil Pile:
"The Village's Water Company had excess soil from their water main break repairs. On January 12, 2021 SGS North America collected three grab soil samples for analysis. This testing was a follow up to testing Eurofins had done on December 22, 2016 of a single grab sample of soil. With the test results being acceptable for use, the Village trucked approximately 300 cubic yards of material from the spoil pile to Schedler. I observed this spoil pile before it was trucked and did not note any indications of contamination."

SWC&E Response for the Ridgewood Water Company Spoil Pile:
The 2016 sample results revealed detection limits that were higher than the remediation standards. For example, the sample analyzed for benzo[a]pyrene was diluted ten-fold yielding a detection limit of 0.94 ppm while the Residential Ingestion-Dermal pathway remediation standard for this compound is 0.51 ppm. Further, the laboratory Case Narrative disclosed surrogate recovery issues with several organic compounds and metals. The follow-up analyses reported for the subject materials revealed that benzo[a]anthracene was detected in sample S-15R at 0.75 ppm which is above the Migration to Ground Water Pathway soil remediation standard for this compound which is 0.71 ppm. Further, benzo[a]pyrene in this sample was reported at a concentration of 0.744 ppm while the Residential Ingestion-Dermal Pathway remediation standard for this compound is 0.51 ppm, thus triggering the definition of solid waste. Sample S-18R revealed similar elevated concentrations of benzo[a]anthracene of 0.873 ppm and 0.852 ppm respectively. BSWC&E's interpretation of the Case Narrative/Conformance Summary did not raise concerns regarding the accuracy of the compounds found at concentrations over the noted remediation standards.

No locations where the subject materials were deposited have been provided. Further, given the exceedance of the remediation standards, no explanation regarding the suitability of the subject material for the 460 West Saddle River Road site was provided.

REQUIRED FURTHER ACTIONS TO DOCUMENT FILL QUALITY:

Berm Along Route 17:

With respect to the soils used to construct the berm, the following actions are necessary to further evaluate the suitability of such materials for the site at 460 Saddle River Road:

1. Provide a detailed explanation describing how the previous analytical data collected for the remediation case that was the source of the fill along with the physical distances or barriers between the contaminated materials and the materials brought to the 460 West Saddle River Road site to justify employing a reduction in the analytical frequencies published in NJDEP guidance.

2. Assuming that, in the opinion of the BSWC&E, such explanation is acceptable, provide a Sampling and Analysis Plan (SAP) that incorporates the following scope of work: collect ten discrete grab (non-composited) samples from the soil berm at equally distributed aerial and vertical locations representing a full cross section of the berm. Using an NJDEP certified laboratory who are also certified by the NJDEP for the test methods employed, analyze each of these samples for those Pesticides and PCBs from the Target Compound List and in accordance with the test methods noted therein as defined in N.J.A.C. 7:26E-1.8. Further, for the data already submitted to the BSWC&E, perform a comprehensive review of the Conformance/Non-Conformance Summary to determine which samples displayed biased low results for metals and semi-volatile organic compounds and add such analytes to similarly equally spaced samples such that there will be at least 14 samples representing Target Analyte List metals and Target Compound List semi-volatile organics, each as defined and in accordance with the analytical procedures noted in N.J.A.C. 7:26E-1.8, for which reliable data is generated. Provide a detailed explanation on this review and analyte selection process. For the purposes of compliance with the solid waste issue, it is not necessary to perform analyses for Tentatively Identified Compounds.

   The SAP shall include a scaled site map noting the proposed sampling locations and analytical parameters. The plan should not be implemented until approved in writing by the BSWC&E.

Other Imported Fill Areas of Deposition:

With respect to the soils/fill deposited in other areas of the property at 460 West Saddle River Road, the BSWC&E has observed that such fill contains materials that, at least from a geotechnical consideration, may not be suitable base material for the artificial turf which the BSWC&E understands is being contemplated for this site. As such, should any of the fill deposited outside of the berm be removed from the property, appropriate characterization of same is needed to ensure that it's use, or disposal is consistent with NJDEP regulations. If any of this fill is contemplated to remain in place, without knowing the locations of the deposition of the various sources of the fill material and because the data for at least some of the fill material is suspect, the aforementioned SAP should be expanded to incorporate sampling of the remaining areas of imported fill deposition. Such expanded plan should incorporate a scaled site map depicting a grid pattern denoting where discrete (non-composited) samples will be collected for analyses for Target Analyte List and Target Compound List analytes as defined and in accordance with the analytical methods noted in N.J.A.C. 7:26E -1.8 (minus volatile organic analyses if appropriate soil gas screening confirms such analyses is not necessary). The expanded SAP should not be implemented until approved in writing by the BSWC&E.

Case Management:

In order to close the solid waste issue associated with the imported fill materials, any such fill that exceeds the Residential Ingestion-Dermal/Inhalation soil remediation standards (without performing data averaging) must be removed. Accordingly, following review of the data to be generated from the SAP, the BSWC&E will advise Ridgewood Village of the scope of work needed to incorporate into a Corrective Action Plan (CAP) designed to address any residual solid waste as determined by both the physical and chemical triggers noted in N.J.A.C. 7:26 -1.6(a)6. The CAP should not be conducted until approved in writing by the SWC&E.

Once the BSWC&E is satisfied that appropriate removal of the fill materials that trigger the definition of solid waste at N.J.A.C. 7:26-1.6(a)6 has been achieved, a letter will be issued noting that the subject solid waste issue has been resolved.

Please note that the BSWC&E does not offer opinions on whether or not a site has been remediated or if a site is suitable to allow leaving fill materials in place that do not trigger the definition of solid waste, but have a contaminant within them at a concentration greater than the respective default Migration to Ground Water soil remediation standard at N.J.A.C. 7:26D. Accordingly, if it is desired to pursue further evaluation of the suitability to leave such soils in place, alternative, site specific Migration to Ground Water pathway standards can be generated as afforded by N.J.A.C. 7:26D if approved by a Licensed Site Remediation Professional (LSRP) retained pursuant to the Administrative Requirements for the Remediation of Contaminated Sites as noted in N.J.A.C. 7:26C. Accordingly, Ridgewood Village may want to consider performing additional testing approved by such LSRP to address such pathway during the mobilization addressing the requisite sampling to further evaluate the solid waste issues.

Enforcement:

Please be advised that Ridgewood Village's documented use of contaminated fill at this site is in violation of the Solid Waste Management Act, particularly N.J.A.C. 7:26-2.8(e). As such, the BSWC&E expects full cooperation from Ridgewood Village at this time to facilitate the BSWC&E's discretionary authority to minimize any enforcement actions/penalty assessments. **As such, please provide the requisite Sampling and Analysis Plan within sixty (60) days upon receipt of this correspondence.**

Attached to this letter please find generic guidance from the BSWC&E addressing our expectations associated with data collection. Should you have any questions, please promptly contact me.

Regards,

Tom Farrell, Chief
Bureau of Solid Waste Compliance & Enforcement

c: Dave Ongaro, BSWC&E
Gina Lugo, BSWC&E
Mike Hastry, DW&USTC&E
Kate Marcopul, DEP – Historic Preservation Office
Keona Miller, DEP – Local Government Affairs

State of New Jersey

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE & UST COMPLIANCE and ENFORCEMENT
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SHAWN M. LATOURETTE
Commissioner

DATA REVIEW DOCUMENTATION FORM

 (last updated October 2023)

The following information should accompany analytical data submitted to the Bureau of Solid Waste Compliance and Enforcement (BSWC&E) for a determination that is limited to whether or not the materials represented by such data trigger the definition of solid waste pursuant to N.J.A.C. 7:26 - 1.6(a)6. BSWC&E's acknowledgement of such data shall not be construed to suggest that the New Jersey Department of Environmental Protection considers that the site represented by this data has been fully remediated in whole or in part. As this form is not designed for any one particular site, not all sections may be applicable.

☐ Current Name and Address of site:

_____

_____

☐ Specific Historical uses of property:

_____

_____

☐ Mapped on NJ GeoWeb as located in an area of Historical Fill? _____

☐ Have the subject materials been in contact with any construction and demolition debris or historical discharge of a hazardous substance or historical fill? _____

SAMPLE COLLECTION INFORMATION:

☐ Was the sampling conducted in conformance with the Technical Requirements for Site Remediation at N.J.A.C. 7:26E and the most recent version of the NJDEP Field Sampling Procedures Manual? _____. If no, please explain:

_____

_____.

☐ Was the sampling conducted to address a known volume of materials? _____ If so, what is the total volume of materials addressed by this project? _____ cubic yards.

☐ If the sampling addressed an area wherein the volume of potentially contaminated materials was not known, how many square feet is such Area of Concern? _____ square feet.

☐ **Only for sites where no VOCs are expected:** Were Target Compound List Volatile Organic Compounds (VOCs) eliminated from the analyses based on the response from a photoionization detector (PID)? _____

- If a PID was used, how, when and by whom was it calibrated (please include the type of calibration gas used)?

_____

_____

- What was the eV value of the bulb used in the PID? _____.
- At what units in parts per million (ppm) of response on the PID was the fill considered to not require analysis for VOCs?_____ .

Describe the process used to screen the materials with the PID. If screening was conducted within in situ materials, please include areal frequency in square feet and depths (from surface grade). If screening was conducted within stockpiled materials, please include the distances within the stockpile and frequency of screening per cubic yards.

_____

_____.

☐ If other information was used to eliminate volatile organics from the testing methods of the subject fill besides PID screening, please note same here:

Please complete the following table:

Analytical Group	**Analytical Frequency per cubic yard of stockpiled materials (if applicable)**	**Analytical Frequency per square foot of in situ materials in Area of Concern (if applicable)**	**Reason for Noted Analytical Frequency**
Target Analyte Metals			
Target Compound List Volatile Organic Compounds			
Target Compound List Semi- Volatile Organic Compounds			
Target Compound List Pesticides			
Target Compound List PCBs			

☐ Has a Sample Location Map been provided noting the sample identification numbers in a manner that one who had not seen the site could readily understand where the samples were collected?

☐ If there was any deviation from the Department's most recent version of the Guidance Documents: *Fill Materials Guidance for SRP Sites, October 2021* or *Understanding DEP's Requirements for Soil and Fill Materials*, please provide your justification for same here:

SAMPLE ANALYSIS INFORMATION:

☐ List the name and the New Jersey Laboratory Certification number(s) for the laboratory(ies) used:

_____.

☐ Were there any analyses conducted for which the laboratory did not have a specific New Jersey certification to perform same (note: In addition to the NJ Laboratory Certification, laboratories are required to hold a certification from NJDEP for each analytical method)?
If yes, please specify which test method and affected analytes was/were not certified by NJDEP: _____.

☐ Has the analyses been performed in accordance with N.J.A.C. 7:26E-2 and accompanied by the applicable Reduced Regulatory Deliverables pursuant to Attachment A-II of N.J.A.C. 7:26E? _____.

☐ Does each laboratory report contain a summary of the samples received noting any deficiencies with, at a minimum: temperature of the samples upon receipt, condition of the sample bottles, appropriate Chain of Custody documentation, compliance with sample holding times? If any such deficiencies were noted, please list them here:

_____

_____.

☐ Was a Conformance/Non-Conformance Summary included for each laboratory report? _____

☐ Did the Conformance/Non-Conformance Summary suggest data that could not be relied upon? _____. If yes, please specify which analytes for which samples were not usable:

_____

_____.

☐ Has any data averaging been employed in an Area of Concern to generate the conclusions drawn? _____If so, specify which Area of Concern employed data averaging and include the computations for same in the report of findings.

☐ Has the data been tabulated with comparison to NJDEP Remediation Standards at N.J.A.C. 7:26D? _____

Per my signature below, I certify that the information provided on this form is true and accurate to the best of my knowledge.

Print name of person completing this form: _____;sign:_____;date:_____

State of New Jersey

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE & UST COMPLIANCE & ENFORCEMENT
BUREAU OF SOLID WASTE COMPLIANCE AND ENFORCEMENT
9 Ewing Street, Mail Code 09-01
P.O. BOX 420
TRENTON NJ 08625-0420
Tel. (609) 292-6305
Fax. (609) 292-4539

SHAWN M. LATOURRETE
Commissioner

STANDARD SAMPLING and ANALYSES PLAN APPROVAL

Project Name:
NJEMS PI#:
Date of S&AP:

The following document contains standard conditions and limitations that accompany any communication from the Bureau of Solid Waste Compliance and Enforcement (BSWC&E) which indicate approvals of Sampling and Analysis Plans. Unless otherwise appended to or altered by official written correspondence from the BSWC&E, these conditions and limitations shall apply.

1.) This approval is limited to determine whether or not the soil/fill materials being sampled meet the portion of the definition of solid waste that addresses contaminant concentrations as referred to in N.J.A.C. 7:26-1.6(a)6. As such, analytical results from **any one** sample that indicate concentrations of contaminants that are above the Residential Ingestion-Dermal or Residential Inhalation soil remediation standards at N.J.A.C. 7:26 D are indicative of solid waste. While delineation of such contamination is acceptable with a plan approved by BSWC&E, **no compliance averaging** is accepted.

2.) The BSWC&E does not make determinations regarding whether or not soils or materials can be considered as Clean Fill pursuant to N.J.A.C. 7:26E -1.8. As such, upon receipt of acceptable data that indicates contaminant concentrations that are compliant with the definition of solid waste at N.J.A.C. 7:29-1.6(a)6, the BSWC&E will acknowledge same by noting compliance has been achieved with respect to the particular solid waste violation associated with the quality of the soil/fill materials. The BSWC&E does not make determinations regarding whether or not a site has been remediated.

3.) All sampling must be performed in accordance with the latest version of the NJDEP's Field Sampling Procedures Manual and N.J.A.C. 7:26 E – The Technical Requirements for Site Remediation.

4.) All analyses must be performed by a laboratory that has at least the following two certifications:

   a.) Overall Laboratory Certification from the State of New Jersey; and, (b) Certification from the State of New Jersey for the particular test method being employed.

Project Name:
NJEMS PI#:
Date of S&AP:

5). Any proposed analytes shall incorporate the test methods associated with EPA's Contract Laboratory Program (CLP) and shall be those analytes included in the respective Target Analyte List (TAL) or Target Compound List (TCL) of the CLP. For example, any proposal to analyze for "Metals" shall be inclusive of all metals in the TAL. It is not necessary to include Tentatively Identified Compounds (TICs) when analyzing for TCL compounds. BSWC&E does not interpret Extractable Petroleum Hydrocarbon (EPH) data.

6.) The Quality Assurance Plans shall incorporate quality control provisions and report same that are at least as comprehensive as the Reduced Regulatory Deliverables pursuant to Attachment A-II of N.J.A.C. 7:26 E. The locations of the Laboratory Non-Conformance Summary, Sample Receipt Form and Chain of Custody shall be readily identified in the laboratory report.

7.) To expedite the BSWC&E's data review, in addition to the full scale laboratory report, a separate table shall be submitted which compares the data to the Residential Ingestion-Dermal and Residential Inhalation soil remediation standards at N.J.A.C. 7:26D. In order to facilitate the BSWC&E determination on whether or not the site needs to be referred to the Department's Site Remediation Program, the data should also be compared to the default Migration to Ground Water pathway soil remediation standards at N.J.A.C. 7:26D. Any comparison to a site specific Migration to Ground Water pathway soil remediation standard would not be performed by the BSWC&E. Further, if the site is located in a wetlands or other area of ecological significance, the analytical results should also be compared to the Ecological Screening Criteria.

Place an "X" or appropriate number next to the applicable statement(s):

8.) The proposed sampling frequency is: ____ acceptable as proposed; _____ needs to be increased to one sample per ____ cubic yards (for sampling the subject fill) or, one sample per ___ square feet (for post-excavation analyses).

9.) The proposed analytes are: ____ acceptable as proposed; ____ needs to include all of the TAL metals; _____ needs to include all of the TCL semi-volatile organics; ___ needs to include all of the TCL pesticides; ____needs to include all of the TCL PCBs; ___ needs to include all of the TCL VOCs.

10.) The proposed field screening for volatile organic compounds (VOCs): ____ is acceptable as proposed; _____must perform field screening with the stated instrument at intervals of ___ cubic yards or ____ square feet (if post excavation sampling); ____ must provide documentation of proper calibration; ___ if a photoionization detector is to be used, must specify the electron voltage of the bulb used.

Plan Approved By: _____
on _____

APPENDIX B

Berm Sampling and Analysis Plan

SAMPLING AND ANALYSIS PLAN
RIDGEWOOD VILLAGE HISTORIC SITE
460 WEST SADDLE RIVER ROAD
BLOCK 4704, LOT 9, 10, 11, 12
VILLAGE OF RIDGEWOOD, BERGEN COUNTY, NEW JERSEY

MATRIXNEWORLD

Engineering Progress

Submitted to:
Bureau of Solid Waste Compliance & Enforcement
New Jersey Department of Environmental Protection
9 Ewing Street
P.O. Box 420
Trenton, New Jersey 08625-0420

Submitted for:
Mr. Christopher Rutishauser, P.E., CPWM
Director of Public Works/Village Engineer
Village of Ridgewood
131 North Maple Avenue
Ridgewood, New Jersey 07450

Submitted by:
Matrix New World Engineering, Land Surveying
and Landscape Architecture, P.C.
26 Columbia Turnpike
Florham Park, New Jersey 07932

Matrix No. 23-1429

April 2024

EXECUTIVE SUMMARY

Matrix New World Engineering, Land Surveying, and Landscape Architecture, P.C. (Matrix) on behalf of the Village of Ridgewood, was contracted to prepare this Sampling and Analysis Plan (SAP) for the property located at 460 West Saddle River Road, Ridgewood, Bergen County, New Jersey (Site). The property consists of Block 4704, Lots 9, 10, 11, and 12. The Site underwent soil importation efforts as part of redevelopment activities to improve the Site with passive and active recreational spaces. The redevelopment activities include the construction of a berm along the western boundary of the Site and general site filling efforts. Six different fill sources were utilized in the filling activities with quantities ranging from 200 cubic yards (CYs) to 8,000 CYs including:

- 152 South Broad Street, Ridgewood, NJ;
- Bergen Community College, Paramus, NJ;
- 533 Wyndemere Avenue, Ridgewood, NJ;
- Ridgewood Water DeBoer Street and Route 208 Water Main Installation;
- Water Main Replacement Jefferson, William, and Salem Streets; and
- Ridgewood Water Company Spoil Pile.

The following SAP summarizes proposed investigation activities for the Site and is based on information obtained from the Village of Ridgewood and correspondence from the New Jersey Department of Environmental Protection (NJDEP) dated December 11, 2023 and included as Appendix A. The objective of this investigation is to determine whether contaminated soil has the potential to exist within the limits of the constructed berm and area of the Site believed to have received imported fill material. The findings will provide a soils baseline to assess current environmental conditions and assist in project close-out. The advancement of up to 14 soil borings and samples are proposed within the berm material. All soil borings will be advanced to a depth within the limits of the imported soils (approximately 5 to 10 feet below ground surface [bgs]). All soil samples will be collected for Target Compound List (TCL) semi-volatile organic compounds (SVOCs) and Target Analyte List (TAL) metals analyses with 10 of the borings additionally analyzed for Pesticides and Polychlorinated Biphenyls (PCBs). The advancement of up to five soil borings and samples are proposed within the northwestern portion of the Site. All soil borings will be advanced to a depth within the limits of the imported soils (approximately five feet bgs). One soil sample from each boring will be collected and submitted for TCL/ TAL plus 30 tentatively identified compounds (+30) and Extractable Petroleum Hydrocarbons (EPH) analyses. Samples for hexavalent chromium will be collected as contingent analysis and only analyzed if total chromium is greater than 20 milligrams per kilogram (mg/kg).

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1.0 INTRODUCTION

Matrix New World Engineering, Land Surveying, and Landscape Architecture, P.C. (Matrix) on behalf of the Village of Ridgewood, was contracted to prepare this Sampling and Analysis Plan (SAP) for the property located at 460 West Saddle River Road, Ridgewood, Bergen County, New Jersey (Site). The property consists of Block 4704, Lots 9, 10, 11, and 12. The Site underwent soil importation efforts as part of redevelopment activities to improve the Site with passive and active recreational spaces. The redevelopment activities include the construction of a berm and site filling efforts. Six different fill sources were utilized in the filling activities with quantities ranging from 200 cubic yards (CYs) to 8,000 CYs. The following SAP summarizes proposed investigation activities for the Site and is based on information obtained from the Village of Ridgewood and correspondence from the New Jersey Department of Environmental Protection (NJDEP) dated December 11, 2023 and included as Appendix A.

1.1 Site Description

The Site is located at 460 West Saddle River Road in Ridgewood, Bergen County, New Jersey. The Site consists of Block 4704, Lots 9 (3.76 acres), 10 (0.40 acres), 11 (1.74 acres), and 12 (1.24 acres) and is approximately 7.14 acres (311,018.40 square feet). The Site is developed with one unoccupied single-family residence, detached garage, garden shed, and a historic potable water well that is no longer in operation on Lot 10. The remainder of the site is wooded with deciduous trees and overgrown lawn areas. As part of redevelopment activities, soils were reportedly imported to the Site for the creation of a berm along the western side of Lots 9 through 12 and general site filling. Based on correspondence between the Village of Ridgewood and the NJDEP's Bureau of Solid Waste Compliance & Enforcement (BSWC&E), the source and quality (i.e., alternative fill or clean fill) of the material was brought into question.

The Site is bound by New Jersey State Highway Route 17 to the west, West Saddle River Road to the east, residential properties to the north, and the intersection of New Jersey State Highway Route 17 and West Saddle River Road to the south. The Site is zoned as Single-Family Residence (R-125), according to the 2022 Village of Ridgewood Zoning Map and lies within an area of mixed-use: including office and residential properties. The topography of the Site fluctuates between approximately 107 and 119 feet above mean sea level (AMSL) throughout majority of the Site, however the berm along the western Site boundary begins at 112 feet AMSL and reaches its highest elevation at 119 feet AMSL. A Site Location Plan depicting the Site topography is presented as Figure 1.

1.2 Site Filling Sources

Soils for the redevelopment activities were imported from six different sites throughout the Village of Ridgewood, Paramus, or Glen Rock, New Jersey. The soil was utilized to construct a berm along the western boundary of the Site adjacent to Route 17 or to fill in low-lying areas in the northwestern portion of the Site. A total of approximately 11,020 CYs of soil were imported to the Site. Each donor site provided between 200 and 8,000 CYs of soil. Summaries of the data collected to date from each donor site are provided below:

- 152 South Broad Street, Ridgewood, NJ: Approximately 8,000 CYs of soil were imported to the Site from 152 South Broad Street in Ridgewood, NJ, a site which was redeveloped into an apartment complex. The soil was utilized in construction of the soil berm along the western boundary of the Site. Peak Environmental (Peak) conducted sampling in October 2018 based on the NJDEP's Guidance Document "Fill Material Guidance for SRP Sites" (Fill Guidance), which requires the collection of 21 soil samples for the characterization of 8,000 CYs. Based on historical investigations at the site (Preliminary Assessment [PA], Site Investigation Report [SIR], Remedial Investigation Report [RIR], and Remedial Action Workplan [RAW], Peak opted to complete the sampling utilizing the reduced sampling frequency of 14 soil samples. However, no justification beyond stating that this site had a known history within the SRP was provided to rationalize a reduced sampling frequency. All 14 samples were analyzed for Extractable Petroleum Hydrocarbons (EPH), 10 samples were analyzed for Target Analyte List (TAL) Metals and Polynuclear Aromatic Hydrocarbons (PAHs), 5 samples were analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs), and 4 samples were analyzed for the full TCL/TAL plus a library search (+30). The NJDEP's Fill Guidance states that all samples should be analyzed for TCL/TAL+30 and EPH, unless a targeted suite of contaminants can be justified. Based on the lack of justification in the selection of the analyses, the NJDEP was not satisfied with the reduced analysis. Therefore, the NJDEP requires further investigation (i.e., review of previous analytical data and additional soil sampling) to evaluate the suitability of the materials for the Site. The analytical results are included in Appendix B.

- Bergen Community College, Paramus, NJ: Approximately 500 CYs of soil were imported to the Site from Bergen Community College (BCC) in Paramus, NJ. No reasoning was provided for the purpose of the excavation. Soil sampling of the material was completed by ANS Consultants (ANS) in September 2019. One five-point composite sample was collected and analyzed for TCL/TAL, total petroleum hydrocarbons (TPH), pH, hexavalent chromium, and trivalent

chromium. While a composite sample representing the 500 CYs of material is not preferred, the NJDEP stated they would be willing to accept the data depending upon the purpose of the excavation. Based on the reported results, mercury was detected exceeding the NJDEP's May 2021 Migration to Groundwater Soil Remediation Standards (MGWSRS). ANS did not believe the mercury exceedance needed to be addressed based on the assumption that mercury may be found as a background contaminant. While this may be accurate, this policy only applies to scenarios where the subject fill is proposed to remain in place and is not to be moved to another site without evaluating the potential impacts of the fill material. Since the Site was not undergoing remediation under the guidance of a Licensed Site Remediation Professional (LSRP), the exceedances from the BCC fill were not integrated into a remedial process using the "Like on Like" – 75 percentile assessment or by creating a site-specific MGWSRS. ANS did not present any information justifying the import of contaminated fill onto a site that may have been uncontaminated prior to the importation of the BCC fill material. Further no laboratory report or Non-Conformance summary was provided with the data therefore, the integrity of the analytical results cannot be evaluated. According to the Village engineer, the BCC soils were placed in the northwestern portion of the Site, near Block 4704, lot 12. Based on the unknown conditions of the excavation, impacted material, and omission of a laboratory report, the NJDEP was not satisfied with the information provided for this fill source. Therefore, the NJDEP requires further investigation (i.e., additional soil sampling) to evaluate the suitability of the materials for the Site. The analytical results are included in Appendix C.

- 533 Wyndemere Avenue, Ridgewood, NJ: Approximately 320 CYs of soil were imported to the Site from a residential construction project (large addition) at 533 Wyndemere Avenue in Ridgewood, NJ. Soil sampling of the material was completed by ANS in May 2021. One sample (unknown if it was a grab or composite sample) was collected and analyzed for TCL/TAL. No concentrations were detected exceeding the NJDEP Soil Remediation Standards (SRS). However, no laboratory report or Non-Conformance summary was provided with the data therefore, the integrity of the analytical results cannot be evaluated. According to the Village engineer, the 533 Wyndemere Avenue soils were placed in the northwestern portion of the Site, near Block 4704, lot 12. Based on the omission of a laboratory report, the NJDEP was not satisfied with the information provided for this fill source. Therefore, the NJDEP requires further investigation (i.e., additional soil sampling) to evaluate the suitability of the materials for the Site. The analytical results are included in Appendix D.

- Ridgewood Water DeBoer Street and Route 208 Water Main Installation: Approximately 200 CYs of soil were imported to the Site from construction associated with a water main installation on DeBoer Avenue and Route 208 in Glen Rock, NJ. Soil sampling of the material was completed by Aqua Pro-Tech Laboratories (Aqua Pro-Tech) in August 2021. One grab sample was collected and analyzed for VOCs, pesticides, polychlorinated biphenyls (PCBs), and TAL metals. Two compounds, mercury and benzo(a)anthracene were detected exceeding their MGWSRS. In addition, benzo(a)pyrene was detected marginally below the Residential Ingestion Dermal Soil Remediation Standard (RIDSRS) however, many of the SVOCs (including benzo(a)pyrene and benzo(a)anthracene) required dilution therefore, the results are biased low. Since the Site was not undergoing remediation under the guidance of a LSRP, the exceedances from the DeBoer Avenue and Route 208 water main installation fill were not integrated into a remedial process using the "Like on Like" – 75 percentile assessment or by creating a site-specific MGWSRS. Aqua Pro-Tech did not present any information justifying the import of contaminated fill onto a site that may have been uncontaminated prior to the importation of the DeBoer Avenue and Route 208 water main installation fill material. Further no laboratory report or Non-Conformance summary was provided with the data therefore, the integrity of the analytical results cannot be evaluated. According to the Village engineer, the DeBoer Avenue and Route 208 water main installation soils were placed in the northwestern portion of the Site, near Block 4704, lot 12. Based on the impacted material and omission of a laboratory report, the NJDEP was not satisfied with the information provided for this fill source. Therefore, the NJDEP requires further investigation (i.e., additional soil sampling) to evaluate the suitability of the materials for the Site. The analytical results are included in Appendix E.

- Water Main Replacement Jefferson, William, and Salem Streets: Approximately 1,700 CYs of soil were imported to the Site from construction associated with a water main replacement on Jefferson Street, William Street, and Salem Lane in Ridgewood, NJ. Soil sampling of the material was completed by Aqua Pro-Tech in September 2020. Three samples (unknown if they were grab or composite samples) were collected, one from each street, and analyzed for TCL/TAL+30, pH, cyanide, hexavalent chromium, and Redox Potential. No concentrations were detected exceeding the NJDEP Soil Remediation Standards (SRS). However, no laboratory report or Non-Conformance summary was provided with the data therefore, the integrity of the analytical results cannot be evaluated. According to the Village engineer, the 533 Wyndemere Ave. soils were placed in the northwestern portion of the Site, near Block 4704, lot 12. Based on the omission of a laboratory report, the NJDEP was not satisfied with the information provided for this fill source.

Therefore, the NJDEP requires further investigation (i.e., additional soil sampling) to evaluate the suitability of the materials for the Site. The analytical results are included in Appendix F.

- Ridgewood Water Company Spoil Pile: Approximately 300 CYs of soil were imported to the Site from excess soil acquired through water main break repairs in Ridgewood, NJ. Soil sampling of the material was completed by Eurofins in December 2016 and SGS North America (SGS) in January 2021. One grab sample was collected by Eurofins in December 2016 and analyzed for TCL/TAL. Reporting limits for several constituents were identified exceeding the remediation standards along with surrogate recovery issues with several organic compounds and metals. Three grab samples were collected by SGS in January 2021 and analyzed for TCL SVOCs plus 20 tentatively identified compounds (+20) The sample results indicated that benzo(a)anthracene and benzo(a)pyrene were detected exceeding their MGWSRS and RIDSRS, respectively. Since the Site was not undergoing remediation under the guidance of a LSRP, the exceedances from the Ridgewood Water Company Spoil Piles were not integrated into a remedial process using the "Like on Like" – 75 percentile assessment or by creating a site-specific MGWSRS. Eurofins and SGS did not present any information justifying the import of contaminated fill onto a site that may have been uncontaminated prior to the importation of the fill material. According to the Village engineer, the Ridgewood Water Company spoils were placed in the northwestern portion of the Site, near Block 4704, lot 12. Based on the impacted material and the lack of explanation regarding the suitability of the fill for the Site, the NJDEP was not satisfied with the information provided for this fill source. Therefore, the NJDEP requires further investigation (i.e., additional soil sampling) to evaluate the suitability of the materials for the Site. The analytical results are included in Appendix G.

2.0 SAMPLING AND ANALYSIS PLAN

2.1 Scope of Work

The objective of this investigation is to determine whether contaminated soil has the potential to exist within the limits of the constructed berm and area of the Site believed to have received imported fill material. The findings will provide a soils baseline to assess current environmental conditions and assist in project close-out.

This SAP may be revised in the field in the event that potential areas of environmental concern (i.e., staining, discolored soil or other indicators of potential surface or subsurface contamination) are identified during the implementation of field activities. This SAP is intended for the use of Matrix personnel only. Matrix will not be responsible for the implementation of other sampling plans.

All work will be conducted in general accordance with the NJDEP Technical Requirements for Site Remediation (TRSR) N.J.A.C. 7:26E, NJDEP Field Sampling Procedures Manual (FSPM) and applicable NJDEP Guidance documents.

2.2 Sample Collection

Prior to conducting the subsurface investigation, the drilling contractor will be responsible for obtaining proper utility mark-outs and required work permits, and active utility clearance prior to drilling. Soil borings will be advanced using Geoprobe® “direct push” technology or via hand tools. Soil samples will be collected via five-foot dedicated acetate sampling cores. All soil samples will be classified based on their color, structure, and particle size and field-screened using a photo-ionization detector (PID), calibrated using isobutylene span gas with a concentration of 100 parts per million (ppm). Coordinates of each soil boring will be collected by Matrix via a handheld global positioning system (GPS) unit. Soil sampling activities will require 2 days to complete. Matrix will coordinate with the property owner to allow access to the soil boring locations.

All soil sample analyses will be conducted by SGS Laboratories (NJDEP No. 12129) of Dayton, New Jersey under chain-of-custody documentation. The analytical data package for all samples will be a NJDEP Reduced Deliverables Package in Data Known Quality Protocol format. Figure 2 depicts the soil boring locations for the total of 19 proposed soil borings within the Site. The locations of the soil borings may be revised while in the field.

Quality assurance/quality control (QA/QC) samples will also be collected and analyzed in accordance with the NJDEP's FSPM A field blank and/or trip blank will be collected and submitted for each day of sampling.

2.2.1 Soil Sampling – Berm

The advancement of up to 14 soil borings are proposed within the berm material. The borings will be equally distributed across the berm to ensure an accurate cross section of the berm is represented. Boring locations may be slightly adjusted in the field to accommodate recent tree plantings. All soil borings will be advanced to a depth within the limits of the imported soils (approximately 5 to 10 feet below ground surface [bgs]). One soil sample from each boring will be collected for TCL SVOCs and TAL metals analyses with 10 of the borings additionally utilized to investigate Pesticides and PCB analyses. Soil samples, as detailed in Table 1, will be collected from the borings biased towards the discrete 6-inch interval with the greatest potential for contamination based on field observations (i.e., elevated PID readings, staining, odor, evidence of fill materials, etc.). If no evidence of contamination is identified, soil samples will be collected from varying six-inch intervals to ensure the berm is fully represented.

Table 1: Soil Sample Summary Table – Berm

Number of Borings/Samples	Analytical Parameters
10 borings/1 sample	TCL Pesticides and PCBs
14 borings/1 sample	TCL SVOCs and TAL Metals

NOTES:
TCL = Target Compound List
PCBs = Polychlorinated Biphenyls
SVOCs = Semi-volatile Organic Compounds
TAL = Target Analyte List
10 of the soil borings will be co-located to allow for the investigation of multiple analytical parameters.

2.2.2 Soil Sampling – Other Imported Fill Areas

The advancement of up to five soil borings are proposed within the northwestern portion of the Site. The borings will be equally distributed throughout the area where filling took place to ensure an accurate cross section of the imported fill is represented. All soil borings will be advanced to a depth within the limits of the imported soils (approximately five feet bgs). One soil sample from each boring will be collected and submitted for TCL/TAL plus 30 tentatively identified compounds (+30) and EPH analyses. Samples for hexavalent chromium will be collected as contingent analysis and only analyzed if total chromium is greater than 20 milligrams per kilogram (mg/kg). A total of five soil samples, as detailed in Table 2, will be collected from the borings biased towards the discrete 6-inch interval with the greatest potential for contamination based on field observations (i.e., elevated PID readings, staining, odor, evidence of fill

materials, etc.). If no evidence of contamination is identified, soil samples will be collected from varying six-inch intervals to ensure imported fill limits are fully represented.

Table 2: Soil Sample Summary Table – Other Imported Fill Areas

Number of Borings/Samples	Analytical Parameters
5 borings/1 sample	EPH, TCL/TAL+30, Hexavalent Chromium (contingent)

NOTES:
TCL/TAL+30 = Target Compound List/Target Analyte List plus tentatively identified compounds

2.2.3 Waste Handling

Upon completion of each soil boring, drill cuttings will be placed back into the bore hole to the surface and the surface restored to match the surrounding ground material.

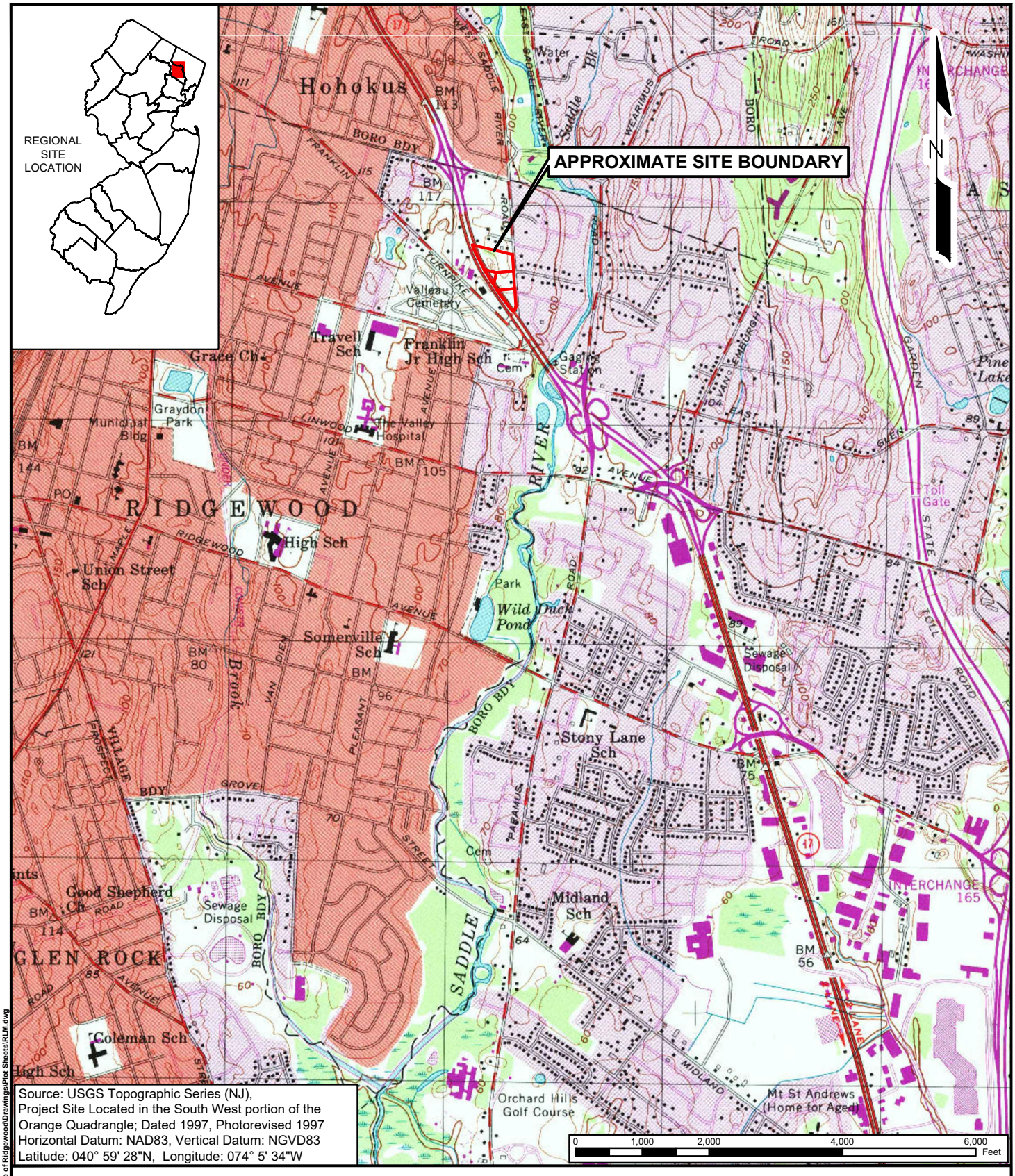
2.4 Reporting

Upon the completion of all soil investigation field activities and receipt of all analytical data, an Environmental Summary Report will be prepared and will include:

- Sample location plan
- Summary of sampling events activities
- Summary of laboratory reported analytical results compared to applicable criteria and standards.
- Soil boring logs
- Laboratory analytical package
- Discussion of any remedial needs

The laboratory reported soil sample analytical results will be compared to NJDEP's Soil Remediation Standards, promulgated at N.J.A.C. 7:26D.

FIGURES



Source: USGS Topographic Series (NJ),
Project Site Located in the South West portion of the Orange Quadrangle; Dated 1997, Photorevised 1997
Horizontal Datum: NAD83, Vertical Datum: NGVD83
Latitude: 040° 59' 28"N, Longitude: 074° 5' 34"W

SITE LOCATION MAP

MATRIXNEWORLD
Engineering Progress
Matrix New World Engineering, Land Surveying
and Landscape Architecture, P.C.
26 Columbia Turnpike
Florham Park, New Jersey 07932
Certified WBE
Tel: 973-240-1800
Fax: 973-240-1818
www.mnwe.com

VILLAGE OF RIDGEWOOD
BLOCK 4704, LOTS 9, 10, 11, & 12
VILLAGE OF RIDGEWOOD
BERGEN COUNTY, NEW JERSEY

SCALE:	PROJECT NO.:	DATE:	FIGURE NO.:
1 : 2,000	23-1429	MARCH 2024	1

© MATRIXNEWORLD\F:\2023\23-1429 Village of Ridgewood\Drawings\Plot Sheets\RLM.dwg

LEGEND

- TCL SVOCs, TAL METALS, PESTICIDES & PCBs
- TCL SVOCs & TAL METALS
- TCL/TAL +30, EPH, HEXAVALENT CHROMIUM (CONTINGENT)

TCL	TARGET COMPOUND LIST
SVOCs	SEMI-VOLATILE ORGANIC COMPOUNDS
TAL	TARGET ANALYTE LIST
PCBs	POLYCHLORINATED BIPHENYLS
TCL/TAL +30	TARGET COMPOUND LIST/TARGET ANALYTE LIST PLUS 30 TENTATIVELY IDENTIFIED COMPOUNDS
EPH	EXTRACTABLE PETROLEUM HYDROCARBONS

NOTE:
DRAWING WAS COMPLETED USING THE "TOPOGRAPHIC SURVEY LOTS 9, 10, 11 & 12 BLOCK 4704 TAX MAP" DRAWING BY DUNN SURVEYING & MAPPING P.A., NOVEMBER 14, 2023 AND PROVIDED TO MATRIX BY THE CLIENT.

NEW JERSEY STATE AMBOY-NEWARK WAY GARDEN STATE PARKWAY ROUTE 17

WEST SADDLE RIVER ROAD

TERHUNE ROAD (50' WIDE)

KENWOOD ROAD (50' WIDE)

KINGSBRIDGE LANE (50' WIDE)

LOT 12 BLOCK 4704 TAX MAP

LOT 10 BLOCK 4704 TAX MAP

LOT 11 BLOCK 4704 TAX MAP

LOT 9 BLOCK 4704 TAX MAP

LOT 8 LANDS N/F GREGORIS

LOT 14 LANDS N/F HARAKIS

LOT 15 LANDS N/F HARCOCK

LOT 13 LANDS N/F DALESIO

296,221.2 SQ. FT.
6.800 ACRES
(EXCLUDING ROADS)

2 ½ STORY BUILDING #460

FORMER LOCATION OF IRON PIPE REMOVED BY ADJOINING PROPERTY OWNER

AREA OF GRANT TO AMERICAN TELEPHONE AND TELEGRAPH COMPANY OF NEW JERSEY FROM DIRECTORS OF WEST SADDLE RIVER ROAD TO BOROUGH OF WEST SADDLE RIVER ROAD (DEED BOOK 1687 PAGE 87)

MAP OF KINGSBRIDGE GRANT FILED IN THE BERGEN COUNTY CLERK'S OFFICE AS MAP NUMBER 1

MAP OF BROOKFIELD FILED IN THE BERGEN COUNTY CLERK'S OFFICE AS MAP NUMBER 2

MAP OF BROOKFIELD FILED IN THE BERGEN COUNTY CLERK'S OFFICE AS MAP NUMBER 3

MONUMENTS SET IN CURB N 709,349.838 E 581,480.276 NAD 83 U.S. SURVEY FEET

SCALE: 1" = 80'

DESIGNED BY: MED	REVIEWED BY: MF	RELEASED BY: MF

DATE

MATRIX NEW WORLD
Engineering Progress
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www.mnwe.com
NEW JERSEY CERTIFICATE OF AUTHORIZATION No. 24GA27982300

PROPOSED SOIL BORING LOCATIONS

VILLAGE OF RIDGEWOOD
BLOCK 4704, LOTS 9, 10, 11 & 12
WEST SADDLE RIVER ROAD
VILLAGE OF RIDGEWOOD
BERGEN COUNTY, NEW JERSEY

PROJECT NUMBER: 23-1429

SCALE: AS SHOWN

DATE: 3/20/2024

SHEET 2 OF

© MATRIXNEWORLD\F:\2023\23-1429 Village of Ridgewood\Drawings\Plot Sheets\Proposed Soil Boring Locations.dwg

APPENDIX A

NJDEP December 11, 2023 Correspondence

State of New Jersey

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Waste & UST Compliance & Enforcement
Bureau of Solid Waste Compliance & Enforcement
9 Ewing Street
P.O. Box 420, Mail-Code 09-01
Trenton, NJ 08625-0420
Tel.: (609) 292-6305 Fax: (609) 292-4539

SHAWN M. LATOURETTE
Commissioner

Sent via email to:
Keith Kazmark: kkazmark@ridgewoodnj.net
Christopher Rutishauser: crutishauser@ridgewoodnj.net

December 11, 2023

CERTIFIED MAIL – RRR
7022 3330 0001 3350 2709

RE: Ridgewood Village Historic Site at 460 West Saddle River Road
Issues with reported data associated with imported fill
EA ID#: U4347

Gentlemen:

The following evaluation of the analytical data reportedly associated with the soils imported to the referenced site reiterates information from Mr. Chris Rutishauser, Ridgewood Village's Director of Public Works/Village Engineer, followed by a response from NJDEP's Bureau of Solid Waste Compliance & Enforcement (BSWC&E). Further appropriate actions necessary to pursue closure of this solid waste case are also presented.

Ridgewood Explanation for South Broad Street Fill Source:
"I visited this site when the offer of the soil became available. I did not observe an[y] indications of contamination in the soils. The development that generated the material was reviewed by the Village's planning board, for which I am the licensed review engineer. The material required and received a Village of Ridgewood major soil moving permit (planning board approves the permit followed by Village Council approval of the permit). Testing was done on the material in 2018 by Peak Environmental. Peak estimated the quantity of soil at 8,000 cubic yards. Peak collected 14 samples for testing under a reduce[d] sample quantity due to justification. Peak did not note any impacts to the soils sampled. The first three pages of their report submitted explains their protocol and observations. We used this soil as the bulk of the material for the berm construction. The berm was constructed by the Village's Streets Division using several of the Village's rubber tire front end loaders."

BSWC&E Response for Ridgewood Dayton, LLC – 152 South Broad Street fill source:
The estimated 8,000 cubic yard soil source was indicated to be from excavations associated with the demolition of a building at a site that underwent remediation. No description of the remediation nor the potential of environmental impacts from the remediated discharge(s) to have impacted the soils taken to 460 Saddle River Road were discussed, yet the sampling and analyses protocol was reduced by relying on such data to reduce the analytical frequencies per cubic yard as compared to the NJDEP Guidance Document: "Fill Material Guidance for SRP Sites". Based on yet to be explained judgements, the analytical parameters were also further reduced. For example, for a volume of 8,000 cubic yards the aforementioned guidance document suggests that 21 samples be collected and analyzed unless information can be used to reduce such frequency to 14 samples to be analyzed. Yet, the consultant secured analyses from only 4 samples for polychlorinated biphenyls (PCBs, a.k.a. "Aroclors") and only 4 samples for pesticides while providing 14 samples for analyses for EPH, PAHs and Metals. While only 5 samples were analyzed for volatile organic compounds (VOC), field screening using a photoionization detector (PID) revealed no responses and therefore the BSWC&E does not disagree with the limitation of the VOC analyses. However, an explanation regarding the use of the reduced sampling frequencies and further reduction of analytes below those noted in NJDEP guidance has not been provided.

The Conformance/Non-Conformance Summary within the laboratory report submitted to the BSWC&E revealed that, while the instrumentation was operating correctly, sample matrix interference was observed which caused the surrogate recoveries of several of the metals analyzed via method 6010D and several of the semi-volatile organic compounds to produce analytical data which may be biased low.

Ridgewood Explanation for Bergen Community College Site fill source:
"Through a contact, Bergen Community reached out to the Village and inquired if we would like some fill soil. I examined the soils at the college. I did not observe any indication of contamination. On September 27, 2019 ANS Consultants collected 5-point grab samples and subjected them to laboratory analysis. Laboratory results indicated the soils were suitable for the intended use at the Schedler site. The Village received approximately 500 cubic yards of material from the college."

BSWC&E Response for Bergen County Community College fill source:
No discussion on the reason for the excavation at this site was provided. The volume of soil represented by the 5-point composite to one sample is reported at 500 cubic yards. Compositing of such sample, although not preferred, may be acceptable, depending upon the reason for the excavation. The cover letter to the tabulated data indicates that the Department (NJDEP) does not require the Mercury found at 0.615 ppm, which is over the Migration to Ground Water Standard of 0.1 ppm as noted in N.J.A.C. 7:26D, to be addressed unless there is cause to believe that its presence is due to a discharge. However, such policy is applicable only for background conditions or historical fill scenarios where the subject fill is proposed to remain in place and does not address the movement of such fill to another site without a requisite evaluation of the potential impacts of such fill material. That is, the property at 460 Saddle River Road was not undergoing a remediation approved by a Licensed Site Remediation Professional (LSRP) retained pursuant to N.J.A.C. 7:26C at the time the fill was imported. As such, fill was not integrated into a remedial process pursuant to the "Like on Like" – 75 percentile assessment as noted in N.J.A.C. 7:26E-5.2 nor was a site-specific Migration to Ground Water pathway soil remediation standard established pursuant to N.J.A.C. 7:26D. Accordingly, no information has been presented to justify bringing in contaminated fill to a site that may have been uncontaminated prior to the importation of the subject fill materials.

The area(s) at the 460 Saddle River Road site where these soils were distributed are currently unknown to the BSWC&E. Further, there was no laboratory report or Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be evaluated if limited to the information provided.

Ridgewood Explanation for 533 Wyndmere fill source:
"This location was a residential house that was constructing a large addition and reached out to us to see if we were interested in their surplus material. I examined the soil in the field. It was a fine to medium sand, trace silt and would be excellent grading fill for the Schedler project. The site's soil moving permit indicated approximately 280 cubic yards of cut and 40 cubic yards of fill. ANS Consultants collected one sample and subjected it to laboratory analysis on or about May 19, 2021. The results were acceptable for the intended use of the material."

BSWC&E Response for 533 Wyndmere fill source:
One sample from 320 cubic yards of soil and fill excavated from a residential home was analyzed for Target Analyte List and Target Compound List compounds for which the results did not indicate a concern.

The area(s) at the 460 Saddle River Road site where these soils were distributed are currently unknown to the BSWC&E.

There was no laboratory report or Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be evaluated if limited to the information provided.

Ridgewood Water DeBoer Avenue and Route 208 Water Main Installation:
"Trench spoil from this project was made available. On August 9, 2021 Aqua Pro-Tech Laboratories tested one grab sample. The soil was found to be acceptable for its intended use. The site provided approximately 200 cubic yards of fill. This is the one location I did not personally observe the material at its generating source."

BSWC&E Response for Ridgewood Water DeBoer Ave and Rt. 208 Water Main Installation:
It appears that one sample from a reported 200 cubic yard source was analyzed for volatile organic compounds, metals, PCBs and pesticides. No Chain of Custody was submitted. It is not known when the date of analysis was. There was no Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be completely evaluated if limited to the information provided.

However, a concern is noted for sample # 1080405-01 as it displayed a benzo[a]pyrene concentration of at least 0.48 parts per million (ppm) while the Residential Ingestion-Dermal pathway soil remediation standard for this compound is 0.51 ppm. Although the reported result is below the Residential Soil Remediation Standard that triggers the definition of solid waste, because this sample was diluted, presumably to rectify some matrix interference, the result is biased low.

This sample also displayed a mercury concentration of 0.105 ppm. N.J.A.C. 7:26D denotes a Migration to Ground Water pathway standard for Mercury of 0.1 ppm.

This sample also displayed a benzo[a]anthracene concentration of at least 2.60 ppm while N.J.A.C. 7:26D denotes a Migration to Ground Water pathway standard for this compound is 0.71 ppm.

Again, without LSRP interaction pursuant to N.J.A.C. 7:26 C, there was no evaluation of the appropriateness of bringing in contaminated fill to the 460 West Saddle River Road site.

The location(s) where this fill was distributed at 460 West Saddle River Road site has not been disclosed to the BSWC&E.

Ridgewood Explanation for Water Main Replacement Jefferson, William and Salem Streets fill source:
"The source of this material was the spoil from a water main replacement project in the following Village streets: Jefferson Street, William Street, and Salem Street. Work was done by a contractor working for Ridgewood Water Company. I observed the trenching work on several occasions. I did not note any contamination concerns. Three samples were collected, one from each street, and tested by Aqua Pro-tech Laboratories on or about September 22, 2020. Trench was approximately 4,100 linear feet, 2.5-feet wide and 4.5-feet deep for a volume of approximately 1,700 cubic yards of soil."

BSWC&E Response for Jefferson, William and Salem Streets fill source:
There was no Non-Conformance Summary submitted with this data, therefore the integrity of the analytical results cannot be completely evaluated if limited to the information provided.

Ridgewood Explanation for the Ridgewood Water Company Spoil Pile:
"The Village's Water Company had excess soil from their water main break repairs. On January 12, 2021 SGS North America collected three grab soil samples for analysis. This testing was a follow up to testing Eurofins had done on December 22, 2016 of a single grab sample of soil. With the test results being acceptable for use, the Village trucked approximately 300 cubic yards of material from the spoil pile to Schedler. I observed this spoil pile before it was trucked and did not note any indications of contamination."

SWC&E Response for the Ridgewood Water Company Spoil Pile:
The 2016 sample results revealed detection limits that were higher than the remediation standards. For example, the sample analyzed for benzo[a]pyrene was diluted ten-fold yielding a detection limit of 0.94 ppm while the Residential Ingestion-Dermal pathway remediation standard for this compound is 0.51 ppm. Further, the laboratory Case Narrative disclosed surrogate recovery issues with several organic compounds and metals. The follow-up analyses reported for the subject materials revealed that benzo[a]anthracene was detected in sample S-15R at 0.75 ppm which is above the Migration to Ground Water Pathway soil remediation standard for this compound which is 0.71 ppm. Further, benzo[a]pyrene in this sample was reported at a concentration of 0.744 ppm while the Residential Ingestion-Dermal Pathway remediation standard for this compound is 0.51 ppm, thus triggering the definition of solid waste. Sample S-18R revealed similar elevated concentrations of benzo[a]anthracene of 0.873 ppm and 0.852 ppm respectively. BSWC&E's interpretation of the Case Narrative/Conformance Summary did not raise concerns regarding the accuracy of the compounds found at concentrations over the noted remediation standards.

No locations where the subject materials were deposited have been provided. Further, given the exceedance of the remediation standards, no explanation regarding the suitability of the subject material for the 460 West Saddle River Road site was provided.

REQUIRED FURTHER ACTIONS TO DOCUMENT FILL QUALITY:

Berm Along Route 17:

With respect to the soils used to construct the berm, the following actions are necessary to further evaluate the suitability of such materials for the site at 460 Saddle River Road:

1. Provide a detailed explanation describing how the previous analytical data collected for the remediation case that was the source of the fill along with the physical distances or barriers between the contaminated materials and the materials brought to the 460 West Saddle River Road site to justify employing a reduction in the analytical frequencies published in NJDEP guidance.

2. Assuming that, in the opinion of the BSWC&E, such explanation is acceptable, provide a Sampling and Analysis Plan (SAP) that incorporates the following scope of work: collect ten discrete grab (non-composited) samples from the soil berm at equally distributed aerial and vertical locations representing a full cross section of the berm. Using an NJDEP certified laboratory who are also certified by the NJDEP for the test methods employed, analyze each of these samples for those Pesticides and PCBs from the Target Compound List and in accordance with the test methods noted therein as defined in N.J.A.C. 7:26E-1.8. Further, for the data already submitted to the BSWC&E, perform a comprehensive review of the Conformance/Non-Conformance Summary to determine which samples displayed biased low results for metals and semi-volatile organic compounds and add such analytes to similarly equally spaced samples such that there will be at least 14 samples representing Target Analyte List metals and Target Compound List semi-volatile organics, each as defined and in accordance with the analytical procedures noted in N.J.A.C. 7:26E-1.8, for which reliable data is generated. Provide a detailed explanation on this review and analyte selection process. For the purposes of compliance with the solid waste issue, it is not necessary to perform analyses for Tentatively Identified Compounds.

   The SAP shall include a scaled site map noting the proposed sampling locations and analytical parameters. The plan should not be implemented until approved in writing by the BSWC&E.

Other Imported Fill Areas of Deposition:

With respect to the soils/fill deposited in other areas of the property at 460 West Saddle River Road, the BSWC&E has observed that such fill contains materials that, at least from a geotechnical consideration, may not be suitable base material for the artificial turf which the BSWC&E understands is being contemplated for this site. As such, should any of the fill deposited outside of the berm be removed from the property, appropriate characterization of same is needed to ensure that it's use, or disposal is consistent with NJDEP regulations. If any of this fill is contemplated to remain in place, without knowing the locations of the deposition of the various sources of the fill material and because the data for at least some of the fill material is suspect, the aforementioned SAP should be expanded to incorporate sampling of the remaining areas of imported fill deposition. Such expanded plan should incorporate a scaled site map depicting a grid pattern denoting where discrete (non-composited) samples will be collected for analyses for Target Analyte List and Target Compound List analytes as defined and in accordance with the analytical methods noted in N.J.A.C. 7:26E -1.8 (minus volatile organic analyses if appropriate soil gas screening confirms such analyses is not necessary). The expanded SAP should not be implemented until approved in writing by the BSWC&E.

Case Management:

In order to close the solid waste issue associated with the imported fill materials, any such fill that exceeds the Residential Ingestion-Dermal/Inhalation soil remediation standards (without performing data averaging) must be removed. Accordingly, following review of the data to be generated from the SAP, the BSWC&E will advise Ridgewood Village of the scope of work needed to incorporate into a Corrective Action Plan (CAP) designed to address any residual solid waste as determined by both the physical and chemical triggers noted in N.J.A.C. 7:26 -1.6(a)6. The CAP should not be conducted until approved in writing by the SWC&E.

Once the BSWC&E is satisfied that appropriate removal of the fill materials that trigger the definition of solid waste at N.J.A.C. 7:26-1.6(a)6 has been achieved, a letter will be issued noting that the subject solid waste issue has been resolved.

Please note that the BSWC&E does not offer opinions on whether or not a site has been remediated or if a site is suitable to allow leaving fill materials in place that do not trigger the definition of solid waste, but have a contaminant within them at a concentration greater than the respective default Migration to Ground Water soil remediation standard at N.J.A.C. 7:26D. Accordingly, if it is desired to pursue further evaluation of the suitability to leave such soils in place, alternative, site specific Migration to Ground Water pathway standards can be generated as afforded by N.J.A.C. 7:26D if approved by a Licensed Site Remediation Professional (LSRP) retained pursuant to the Administrative Requirements for the Remediation of Contaminated Sites as noted in N.J.A.C. 7:26C. Accordingly, Ridgewood Village may want to consider performing additional testing approved by such LSRP to address such pathway during the mobilization addressing the requisite sampling to further evaluate the solid waste issues.

Enforcement:

Please be advised that Ridgewood Village's documented use of contaminated fill at this site is in violation of the Solid Waste Management Act, particularly N.J.A.C. 7:26-2.8(e). As such, the BSWC&E expects full cooperation from Ridgewood Village at this time to facilitate the BSWC&E's discretionary authority to minimize any enforcement actions/penalty assessments. **As such, please provide the requisite Sampling and Analysis Plan within sixty (60) days upon receipt of this correspondence.**

Attached to this letter please find generic guidance from the BSWC&E addressing our expectations associated with data collection. Should you have any questions, please promptly contact me.

Regards,

Tom Farrell, Chief
Bureau of Solid Waste Compliance & Enforcement

c: Dave Ongaro, BSWC&E
Gina Lugo, BSWC&E
Mike Hastry, DW&USTC&E
Kate Marcopul, DEP – Historic Preservation Office
Keona Miller, DEP – Local Government Affairs

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SHAWN M. LATOURETTE
Commissioner

DATA REVIEW DOCUMENTATION FORM

 (last updated October 2023)

The following information should accompany analytical data submitted to the Bureau of Solid Waste Compliance and Enforcement (BSWC&E) for a determination that is limited to whether or not the materials represented by such data trigger the definition of solid waste pursuant to N.J.A.C. 7:26 - 1.6(a)6. BSWC&E's acknowledgement of such data shall not be construed to suggest that the New Jersey Department of Environmental Protection considers that the site represented by this data has been fully remediated in whole or in part. As this form is not designed for any one particular site, not all sections may be applicable.

☐ Current Name and Address of site:

_____

_____

☐ Specific Historical uses of property:

_____

_____

☐ Mapped on NJ GeoWeb as located in an area of Historical Fill? _____

☐ Have the subject materials been in contact with any construction and demolition debris or historical discharge of a hazardous substance or historical fill? _____

SAMPLE COLLECTION INFORMATION:

☐ Was the sampling conducted in conformance with the Technical Requirements for Site Remediation at N.J.A.C. 7:26E and the most recent version of the NJDEP Field Sampling Procedures Manual? _____. If no, please explain:

_____

_____.

☐ Was the sampling conducted to address a known volume of materials? _____ If so, what is the total volume of materials addressed by this project? _____ cubic yards.

☐ If the sampling addressed an area wherein the volume of potentially contaminated materials was not known, how many square feet is such Area of Concern? _____ square feet.

☐ **Only for sites where no VOCs are expected:** Were Target Compound List Volatile Organic Compounds (VOCs) eliminated from the analyses based on the response from a photoionization detector (PID)? _____

- If a PID was used, how, when and by whom was it calibrated (please include the type of calibration gas used)?

_____

_____

- What was the eV value of the bulb used in the PID? _____.
- At what units in parts per million (ppm) of response on the PID was the fill considered to not require analysis for VOCs?_____ .

Describe the process used to screen the materials with the PID. If screening was conducted within in situ materials, please include areal frequency in square feet and depths (from surface grade). If screening was conducted within stockpiled materials, please include the distances within the stockpile and frequency of screening per cubic yards.

_____

_____.

☐ If other information was used to eliminate volatile organics from the testing methods of the subject fill besides PID screening, please note same here:

Please complete the following table:

Analytical Group	**Analytical Frequency per cubic yard of stockpiled materials (if applicable)**	**Analytical Frequency per square foot of in situ materials in Area of Concern (if applicable)**	**Reason for Noted Analytical Frequency**
Target Analyte Metals			
Target Compound List Volatile Organic Compounds			
Target Compound List Semi- Volatile Organic Compounds			
Target Compound List Pesticides			
Target Compound List PCBs			

☐ Has a Sample Location Map been provided noting the sample identification numbers in a manner that one who had not seen the site could readily understand where the samples were collected?

☐ If there was any deviation from the Department's most recent version of the Guidance Documents: *Fill Materials Guidance for SRP Sites, October 2021* or *Understanding DEP's Requirements for Soil and Fill Materials*, please provide your justification for same here:

SAMPLE ANALYSIS INFORMATION:

☐ List the name and the New Jersey Laboratory Certification number(s) for the laboratory(ies) used:

_____.

☐ Were there any analyses conducted for which the laboratory did not have a specific New Jersey certification to perform same (note: In addition to the NJ Laboratory Certification, laboratories are required to hold a certification from NJDEP for each analytical method)?
If yes, please specify which test method and affected analytes was/were not certified by NJDEP: _____.

☐ Has the analyses been performed in accordance with N.J.A.C. 7:26E-2 and accompanied by the applicable Reduced Regulatory Deliverables pursuant to Attachment A-II of N.J.A.C. 7:26E? _____.

☐ Does each laboratory report contain a summary of the samples received noting any deficiencies with, at a minimum: temperature of the samples upon receipt, condition of the sample bottles, appropriate Chain of Custody documentation, compliance with sample holding times? If any such deficiencies were noted, please list them here:

_____

_____.

☐ Was a Conformance/Non-Conformance Summary included for each laboratory report? _____

☐ Did the Conformance/Non-Conformance Summary suggest data that could not be relied upon? _____. If yes, please specify which analytes for which samples were not usable:

_____

_____.

☐ Has any data averaging been employed in an Area of Concern to generate the conclusions drawn? _____If so, specify which Area of Concern employed data averaging and include the computations for same in the report of findings.

☐ Has the data been tabulated with comparison to NJDEP Remediation Standards at N.J.A.C. 7:26D? _____

Per my signature below, I certify that the information provided on this form is true and accurate to the best of my knowledge.

Print name of person completing this form: _____;sign:_____;date:_____

State of New Jersey

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
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SHAWN M. LATOURRETE
Commissioner

STANDARD SAMPLING and ANALYSES PLAN APPROVAL

Project Name:
NJEMS PI#:
Date of S&AP:

The following document contains standard conditions and limitations that accompany any communication from the Bureau of Solid Waste Compliance and Enforcement (BSWC&E) which indicate approvals of Sampling and Analysis Plans. Unless otherwise appended to or altered by official written correspondence from the BSWC&E, these conditions and limitations shall apply.

1.) This approval is limited to determine whether or not the soil/fill materials being sampled meet the portion of the definition of solid waste that addresses contaminant concentrations as referred to in N.J.A.C. 7:26-1.6(a)6. As such, analytical results from **any one** sample that indicate concentrations of contaminants that are above the Residential Ingestion-Dermal or Residential Inhalation soil remediation standards at N.J.A.C. 7:26 D are indicative of solid waste. While delineation of such contamination is acceptable with a plan approved by BSWC&E, **no compliance averaging** is accepted.

2.) The BSWC&E does not make determinations regarding whether or not soils or materials can be considered as Clean Fill pursuant to N.J.A.C. 7:26E -1.8. As such, upon receipt of acceptable data that indicates contaminant concentrations that are compliant with the definition of solid waste at N.J.A.C. 7:29-1.6(a)6, the BSWC&E will acknowledge same by noting compliance has been achieved with respect to the particular solid waste violation associated with the quality of the soil/fill materials. The BSWC&E does not make determinations regarding whether or not a site has been remediated.

3.) All sampling must be performed in accordance with the latest version of the NJDEP's Field Sampling Procedures Manual and N.J.A.C. 7:26 E – The Technical Requirements for Site Remediation.

4.) All analyses must be performed by a laboratory that has at least the following two certifications:

   a.) Overall Laboratory Certification from the State of New Jersey; and, (b) Certification from the State of New Jersey for the particular test method being employed.

Project Name:
NJEMS PI#:
Date of S&AP:

5). Any proposed analytes shall incorporate the test methods associated with EPA's Contract Laboratory Program (CLP) and shall be those analytes included in the respective Target Analyte List (TAL) or Target Compound List (TCL) of the CLP. For example, any proposal to analyze for "Metals" shall be inclusive of all metals in the TAL. It is not necessary to include Tentatively Identified Compounds (TICs) when analyzing for TCL compounds. BSWC&E does not interpret Extractable Petroleum Hydrocarbon (EPH) data.

6.) The Quality Assurance Plans shall incorporate quality control provisions and report same that are at least as comprehensive as the Reduced Regulatory Deliverables pursuant to Attachment A-II of N.J.A.C. 7:26 E. The locations of the Laboratory Non-Conformance Summary, Sample Receipt Form and Chain of Custody shall be readily identified in the laboratory report.

7.) To expedite the BSWC&E's data review, in addition to the full scale laboratory report, a separate table shall be submitted which compares the data to the Residential Ingestion-Dermal and Residential Inhalation soil remediation standards at N.J.A.C. 7:26D. In order to facilitate the BSWC&E determination on whether or not the site needs to be referred to the Department's Site Remediation Program, the data should also be compared to the default Migration to Ground Water pathway soil remediation standards at N.J.A.C. 7:26D. Any comparison to a site specific Migration to Ground Water pathway soil remediation standard would not be performed by the BSWC&E. Further, if the site is located in a wetlands or other area of ecological significance, the analytical results should also be compared to the Ecological Screening Criteria.

Place an "X" or appropriate number next to the applicable statement(s):

8.) The proposed sampling frequency is: ____ acceptable as proposed; _____ needs to be increased to one sample per ____ cubic yards (for sampling the subject fill) or, one sample per ___ square feet (for post-excavation analyses).

9.) The proposed analytes are: ____ acceptable as proposed; ____ needs to include all of the TAL metals; _____ needs to include all of the TCL semi-volatile organics; ___ needs to include all of the TCL pesticides; ____needs to include all of the TCL PCBs; ___ needs to include all of the TCL VOCs.

10.) The proposed field screening for volatile organic compounds (VOCs): ____ is acceptable as proposed; _____must perform field screening with the stated instrument at intervals of ___ cubic yards or ____ square feet (if post excavation sampling); ____ must provide documentation of proper calibration; ___ if a photoionization detector is to be used, must specify the electron voltage of the bulb used.

Plan Approved By: _____
on _____

APPENDIX B

152 SOUTH BROAD STREET ANALYTICAL DATA

PEAK ENVIRONMENTAL LLC
26 Kennedy Boulevard, Suite A, East Brunswick, NJ 08816
Phone 732-326-1010 ● www.peak-environmental.com

October 18, 2018

Mr. Scott Loventhal
Ridgewood Dayton, LLC
820 Morris Turnpike, Suite 101
Short Hills, NJ 07078

Via Email to scottl@gardenhomes.com

Re: Stockpiled Soil Characterization Results
152 South Broad Street
Ridgewood, New Jersey
Project No. 1594:602

Dear Mr. Loventhal:

The following letter report presents the results of soil characterization sampling and analysis conducted by Peak Environmental LLC (Peak) related to the 152 South Broad Street site (Site) on behalf of Ridgewood Dayton, LLC.

PROJECT BACKGROUND

It is Peak's understanding that, following the completion of the remedial excavation and off-site disposal of the known areas of environmental concern (AOCs), redevelopment related excavations of soils encountered at deeper depths at the Site resulted in the generation of approximately 8,000 cubic yards (cys) of excess soil. Peak understands that the client needs analytical data to provide to prospective recipients of the soil so that it can be used as fill material at an offsite property.

Soil Characterization Sampling

Review of the New Jersey Department of Environmental Protection (NJDEP) Fill Material Guidance Document for 8,000 cubic yards of material calls for the collection of 21 samples by default, or 14 samples using a reduced sampling scheme with justification. As this property is in the NJDEP Site Remediation Program, and a Preliminary Assessment, Site Investigation, Remedial Investigation, and Remedial Actions have already been completed at the Site under the direction and oversight of a Licensed Site Remediation Professional (LSRP), Peak conducted the characterization sampling using the reduced sampling frequency as the history of the property is known.

On October 10, 2018, Peak arrived on site and noted that the 8,000 cys of material was comprised of two separate stockpiles, one at the north side of the property (estimated to be 4,500 cys) and one along the south side of the property (estimated to be 3,500 cys). The stockpiles consisted of soils excavated from each respective general area, and the northern pile included soils excavated from below the former building. Peak conducted the characterization sampling by directing your operator to excavate test pits at representative locations within the soil piles using a track mounted excavator. The test pit locations were offset to split each of the two stockpiles into roughly seven equal sections and were advanced throughout the vertical extent of the piles which extended up to 13' high.

Specifically, a total of seven test pits (identified as NTP-1 through NTP-7) were advanced within the northern soil pile and seven test pits (identified as STP-1 through STP-7) were advanced within the southern soil pile. The soils at each test pit location were screened in the field for Volatile Organic Compounds (VOCs) using a calibrated photoionization detector (PID), and visually inspected for texture and physical evidence of contaminants and/or historic fill. There were no PID responses within any of the test pit locations and no evidence of subsurface extraneous debris and/or solid waste, or historic fill material. No obvious visual or olfactory evidence of contamination was noted. The stockpiled soils were generally homogenous and consisted of brown coarse and medium sand with various amounts of fine gravel.

As there were no indications of impacts noted, the sample locations were selected randomly. As the Site was formerly used as an automotive dealership and the remediated AOCs included historic fill, the lab analysis included: Extractable Petroleum Hydrocarbons (EPH) on all 14 samples; TAL Metals and Polynuclear Aromatic Hydrocarbons (PAHs) on ten samples; Volatile Organic Compounds (VOCs) on five samples; and the full Target Compound List/Target Analyte List (TCL/TAL+30) analysis on four samples. The samples collected are summarized in the following table:

Field ID	Location	Sample Depth (ft. from top of pile)	Analytical Parameters
NTP-1A	Northern Soil Pile	1.5-2	EPH Cat-2, TCL/TAL+30
NTP-2A	Northern Soil Pile	0.5-1	EPH Cat-2, PAHs, Metals, VOCs
NTP-2B	Northern Soil Pile	4.5-5	EPH Cat-2, PAHs, Metals
NTP-3B	Northern Soil Pile	4-4.5	EPH Cat-2, PAHs, Metals
NTP-4B	Northern Soil Pile	4.5-5	EPH Cat-2, PAHs, Metals
NTP-6	Northern Soil Pile	4-4.5	EPH Cat-2, TCL/TAL+30
NTP-7	Northern Soil Pile	0-0.5	EPH Cat-2, PAHs, Metals, VOCs
STP-1B	Southern Soil Pile	3.5-4	EPH Cat-2, PAHs, Metals, VOCs
STP-2B	Southern Soil Pile	3.5-4	EPH Cat-2, PAHs, Metals
STP-3B	Southern Soil Pile	4-4.5	EPH Cat-2, PAHs, Metals
STP-4A	Southern Soil Pile	4-4.5	EPH Cat-2, PAHs, Metals, VOCs
STP-4B	Southern Soil Pile	1.5-2	EPH Cat-2, TCL/TAL+30
STP-5	Southern Soil Pile	3-3.5	EPH Cat-2, PAHs, Metals
STP-7	Southern Soil Pile	2-2.5	EPH Cat-2, TCL/TAL+30

Results and Conclusions

The results of analysis, as presented on Tables 1, 2, and 3, did not indicate the presence of any target compounds above an applicable NJDEP Soil Remediation Standard. Exceedances of the NJDEP Default Impact to Groundwater Soil Screening Levels (IGWSSLs) were identified for Aluminum and Manganese; however, based on the NJDEP Guidance Document Frequently Asked Questions for the Impact to Ground Water Pathway in Soil Remediation Standards Version 1.0, 1/27/2011 (see below), no further action is necessary for these naturally occurring earth metals. The complete NJ Reduced Lab Report is included as **Attachment I**.

> *"Soil standards, by law, must be based on health considerations. The health based GWQS are used as the endpoint from which to back-calculate the IGWSRS. The GWQS Aluminum, Manganese, Silver and Zinc are secondary, that is they are not based on health considerations, but primarily on aesthetic considerations such as taste, odor and appearance. Additionally, these elements may be found as background contaminants. Therefore, the Department has decided that the IGW pathway does not need to be addressed for these contaminants unless there is cause to believe that their presence is due to a site discharge."*

Based on our field observations and the results of analysis, the soil piles defined in this report meet the NJDEP Soil Remediation Standards and are suitable for use as clean fill. They have been shown to be uncontaminated pursuant to any applicable remediation standard and are free of contamination due to extraneous debris or solid waste. This report may be referenced as documentation of the quality of the fill. We recommend that when transporting this material from the site to its final destination, that bills of lading are used (and retained) to document the transfer of this soil to its final destination.

We appreciate the opportunity to provide you with professional services, and trust the foregoing information is suitable to meet your needs. We remain available to discuss any aspect of this project.

Sincerely,
Peak Environmental LLC

Robert M. Edgar, Partner

Joseph Romeo
Senior Project Manager

enc: Tables 1, 2, and 3
Attachment I - Laboratory Reduced Data Deliverables

Table 1. Soil Analytical Data Summary
Volatile Organic Compounds

Area of Concern					8100452-01				8100452-02				8100452-05				8100452-06				8100452-07				8100452-08				8100452-11			
Sample Identifier					NTP-1A				NTP-2A				NTP-4B				NTP-6				NTP-7				STP-1B				STP-4A			
Laboratory Identifier																																
Sample Date	CAS Number	NJDEP Residential Direct Contact SRS[1]	NJDEP Nonresidential Direct Contact SRS[2]	NJDEP Default Impact to Ground Water SSL[3]	10/10/2018				10/10/2018				10/10/2018				10/10/2018				10/10/2018				10/10/2018				10/10/2018			
Volatile Organics - GC/MS (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
1,1,1-Trichloroethane	71-55-6	160,000	NS	0.3	0.000178	U	0.000178	0.001220	0.000128	U	0.000128	0.000879	0.000139	U	0.000139	0.000954	0.000166	U	0.000166	0.001140	0.000155	U	0.000155	0.001060	0.000397	U	0.000397	0.002720	0.000109	U	0.000109	0.000746
1,1,2,2-Tetrachloroethane	79-34-5	1	3	0.007	0.000169	U	0.000169	0.001220	0.000121	U	0.000121	0.000879	0.000132	U	0.000132	0.000954	0.000157	U	0.000157	0.001140	0.000147	U	0.000147	0.001060	0.000376	U	0.000376	0.002720	0.000103	U	0.000103	0.000746
1,1,2-Trichloro-1,2,2 Trifluoroethane	76-13-1	NS	NS	NS	0.000523	U	0.000523	0.001220	0.000376	U	0.000376	0.000879	0.000408	U	0.000408	0.000954	0.000488	U	0.000488	0.001140	0.000455	U	0.000455	0.001060	0.001170	U	0.001170	0.002720	0.000319	U	0.000319	0.000746
1,1,2-Trichloroethane	79-00-5	2	6	0.02	0.000206	U	0.000206	0.001220	0.000148	U	0.000148	0.000879	0.000161	U	0.000161	0.000954	0.000192	U	0.000192	0.001140	0.000179	U	0.000179	0.001060	0.000459	U	0.000459	0.002720	0.000126	U	0.000126	0.000746
1,1-Dichloroethane	75-34-3	8	24	0.2	0.000178	U	0.000178	0.001220	0.000128	U	0.000128	0.000879	0.000139	U	0.000139	0.000954	0.000166	U	0.000166	0.001140	0.000155	U	0.000155	0.001060	0.000397	U	0.000397	0.002720	0.000109	U	0.000109	0.000746
1,1-Dichloroethene	75-35-4	11	150	0.008	0.000226	U	0.000226	0.001220	0.000163	U	0.000163	0.000879	0.000176	U	0.000176	0.000954	0.000211	U	0.000211	0.001140	0.000197	U	0.000197	0.001060	0.000504	U	0.000504	0.002720	0.000138	U	0.000138	0.000746
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	0.000264	U	0.000264	0.001220	0.000190	U	0.000190	0.000879	0.000206	U	0.000206	0.000954	0.000246	U	0.000246	0.001140	0.000230	U	0.000230	0.001060	0.000588	U	0.000588	0.002720	0.000161	U	0.000161	0.000746
1,2,4-Trichlorobenzene	120-82-1	73	820	0.7	0.000326	U	0.000326	0.001220	0.000234	U	0.000234	0.000879	0.000254	U	0.000254	0.000954	0.000304	U	0.000304	0.001140	0.000283	U	0.000283	0.001060	0.000726	U	0.000726	0.002720	0.000199	U	0.000199	0.000746
1,2,4-Trimethylbenzene	95-63-6	NS	NS	NS	0.000169	U	0.000169	0.001220	0.000121	U	0.000121	0.000879	0.000132	U	0.000132	0.000954	0.000157	U	0.000157	0.001140	0.000147	U	0.000147	0.001060	0.000376	U	0.000376	0.002720	0.000103	U	0.000103	0.000746
1,2-Dibromo-3-chloropropane	96-12-8	0.08	0.20	0.005	0.000298	U	0.000298	0.001220	0.000214	U	0.000214	0.000879	0.000233	U	0.000233	0.000954	0.000278	U	0.000278	0.001140	0.000259	U	0.000259	0.001060	0.000664	U	0.000664	0.002720	0.000182	U	0.000182	0.000746
1,2-Dibromoethane	106-93-4	0.008	0.04	0.005	0.000154	U	0.000154	0.001220	0.000111	U	0.000111	0.000879	0.000120	U	0.000120	0.000954	0.000144	U	0.000144	0.001140	0.000134	U	0.000134	0.001060	0.000343	U	0.000343	0.002720	0.000094	U	0.000094	0.000746
1,2-Dichlorobenzene	95-50-1	5,300	59,000	17	0.000216	U	0.000216	0.001220	0.000155	U	0.000155	0.000879	0.000168	U	0.000168	0.000954	0.000201	U	0.000201	0.001140	0.000188	U	0.000188	0.001060	0.000481	U	0.000481	0.002720	0.000132	U	0.000132	0.000746
1,2-Dichloroethane	107-06-2	0.9	3	0.005	0.000172	U	0.000172	0.001220	0.000124	U	0.000124	0.000879	0.000134	U	0.000134	0.000954	0.000161	U	0.000161	0.001140	0.000150	U	0.000150	0.001060	0.000384	U	0.000384	0.002720	0.000105	U	0.000105	0.000746
1,2-Dichloropropane	78-87-5	2	5	0.005	0.000200	U	0.000200	0.001220	0.000144	U	0.000144	0.000879	0.000156	U	0.000156	0.000954	0.000187	U	0.000187	0.001140	0.000174	U	0.000174	0.001060	0.000446	U	0.000446	0.002720	0.000122	U	0.000122	0.000746
1,3-Dichlorobenzene	541-73-1	5,300	59,000	19	0.000090	U	0.000090	0.001220	0.000065	U	0.000065	0.000879	0.000070	U	0.000070	0.000954	0.000084	U	0.000084	0.001140	0.000078	U	0.000078	0.001060	0.000200	U	0.000200	0.002720	0.000055	U	0.000055	0.000746
1,4-Dichlorobenzene	106-46-7	5	13	2	0.000176	U	0.000176	0.001220	0.000127	U	0.000127	0.000879	0.000137	U	0.000137	0.000954	0.000164	U	0.000164	0.001140	0.000153	U	0.000153	0.001060	0.000392	U	0.000392	0.002720	0.000107	U	0.000107	0.000746
2-Butanone	78-93-3	3,100	44,000	0.9	0.000199	U	0.000199	0.003060	0.000143	U	0.000143	0.002200	0.000155	U	0.000155	0.002380	0.000186	U	0.000186	0.002850	0.000173	U	0.000173	0.002660	0.000444	U	0.000444	0.006810	0.000122	U	0.000122	0.001860
2-Hexanone	591-78-6	NS	NS	NS	0.000114	U	0.000114	0.001220	0.000082	U	0.000082	0.000879	0.000089	U	0.000089	0.000954	0.000107	U	0.000107	0.001140	0.000099	U	0.000099	0.001060	0.000255	U	0.000255	0.002720	0.000070	U	0.000070	0.000746
4-Methyl-2-pentanone	108-10-1	NS	NS	NS	0.000153	U	0.000153	0.001220	0.000110	U	0.000110	0.000879	0.000119	U	0.000119	0.000954	0.000143	U	0.000143	0.001140	0.000133	U	0.000133	0.001060	0.000340	U	0.000340	0.002720	0.000093	U	0.000093	0.000746
Acetone	67-64-1	70,000	NS	19	0.000370	U	0.000370	0.003060	0.000266	U	0.000266	0.002200	0.000289	U	0.000289	0.002380	0.000345	U	0.000345	0.002850	0.000322	U	0.000322	0.002660	0.000825	U	0.000825	0.006810	0.000226	U	0.000226	0.001860
Benzene	71-43-2	2	5	0.005	0.000111	U	0.000111	0.001220	0.000080	U	0.000080	0.000879	0.000087	U	0.000087	0.000954	0.000104	U	0.000104	0.001140	0.000097	U	0.000097	0.001060	0.000248	U	0.000248	0.002720	0.000068	U	0.000068	0.000746
Bromochloromethane	74-97-5	NS	NS	NS	0.000226	U	0.000226	0.001220	0.000162	U	0.000162	0.000879	0.000176	U	0.000176	0.000954	0.000210	U	0.000210	0.001140	0.000196	U	0.000196	0.001060	0.000502	U	0.000502	0.002720	0.000138	U	0.000138	0.000746
Bromodichloromethane	75-27-4	1	3	0.005	0.000153	U	0.000153	0.001220	0.000110	U	0.000110	0.000879	0.000120	U	0.000120	0.000954	0.000143	U	0.000143	0.001140	0.000133	U	0.000133	0.001060	0.000342	U	0.000342	0.002720	0.000094	U	0.000094	0.000746
Bromoform	75-25-2	81	280	0.03	0.000215	U	0.000215	0.001220	0.000154	U	0.000154	0.000879	0.000167	U	0.000167	0.000954	0.000200	U	0.000200	0.001140	0.000187	U	0.000187	0.001060	0.000478	U	0.000478	0.002720	0.000131	U	0.000131	0.000746
Bromomethane	74-83-9	25	59	0.04	0.000353	U	0.000353	0.001220	0.000253	U	0.000253	0.000879	0.000275	U	0.000275	0.000954	0.000329	U	0.000329	0.001140	0.000307	U	0.000307	0.001060	0.000785	U	0.000785	0.002720	0.000215	U	0.000215	0.000746
Carbon disulfide	75-15-0	7,800	110,000	6	0.000175	U	0.000175	0.001220	0.000126	U	0.000126	0.000879	0.000137	U	0.000137	0.000954	0.000164	U	0.000164	0.001140	0.000153	U	0.000153	0.001060	0.000391	U	0.000391	0.002720	0.000107	U	0.000107	0.000746
Carbon Tetrachloride	56-23-5	2	4	0.005	0.000184	U	0.000184	0.001220	0.000132	U	0.000132	0.000879	0.000144	U	0.000144	0.000954	0.000172	U	0.000172	0.001140	0.000160	U	0.000160	0.001060	0.000410	U	0.000410	0.002720	0.000112	U	0.000112	0.000746
Chlorobenzene	108-90-7	510	7,400	0.6	0.000177	U	0.000177	0.001220	0.000127	U	0.000127	0.000879	0.000138	U	0.000138	0.000954	0.000165	U	0.000165	0.001140	0.000154	U	0.000154	0.001060	0.000395	U	0.000395	0.002720	0.000108	U	0.000108	0.000746
Chlorodibromomethane	124-48-1	3	8	0.005	0.000150	U	0.000150	0.001220	0.000108	U	0.000108	0.000879	0.000117	U	0.000117	0.000954	0.000140	U	0.000140	0.001140	0.000131	U	0.000131	0.001060	0.000335	U	0.000335	0.002720	0.000092	U	0.000092	0.000746
Chloroethane	75-00-3	220	1,100	NS	0.000208	U	0.000208	0.001220	0.000150	U	0.000150	0.000879	0.000163	U	0.000163	0.000954	0.000194	U	0.000194	0.001140	0.000181	U	0.000181	0.001060	0.000464	U	0.000464	0.002720	0.000127	U	0.000127	0.000746
Chloroform	67-66-3	0.6	2	0.4	0.000205	U	0.000205	0.001220	0.000148	U	0.000148	0.000879	0.000160	U	0.000160	0.000954	0.000192	U	0.000192	0.001140	0.000179	U	0.000179	0.001060	0.000457	U	0.000457	0.002720	0.000125	U	0.000125	0.000746
Chloromethane	74-87-3	4	12	NS	0.000471	U	0.000471	0.001220	0.000338	U	0.000338	0.000879	0.000367	U	0.000367	0.000954	0.000439	U	0.000439	0.001140	0.000409	U	0.000409	0.001060	0.001050	U	0.001050	0.002720	0.000287	U	0.000287	0.000746
cis-1,2-Dichloroethene	156-59-2	230	560	0.3	0.000059	U	0.000059	0.001220	0.000043	U	0.000043	0.000879	0.000046	U	0.000046	0.000954	0.000055	U	0.000055	0.001140	0.000051	U	0.000051	0.001060	0.000132	U	0.000132	0.002720	0.000036	U	0.000036	0.000746
cis-1,3-Dichloropropene	10061-01-5	2	7	0.005	0.000155	U	0.000155	0.001220	0.000111	U	0.000111	0.000879	0.000121	U	0.000121	0.000954	0.000144	U	0.000144	0.001140	0.000134	U	0.000134	0.001060	0.000344	U	0.000344	0.002720	0.000094	U	0.000094	0.000746
Cyclohexane	110-82-7	NS	NS	NS	0.000271	U	0.000271	0.001220	0.000195	U	0.000195	0.000879	0.000211	U	0.000211	0.000954	0.000253	U	0.000253	0.001140	0.000235	U	0.000235	0.001060	0.000603	U	0.000603	0.002720	0.000165	U	0.000165	0.000746
Dichlorodifluoromethane	75-71-8	490	230,000	39	0.000413	U	0.000413	0.001220	0.000297	U	0.000297	0.000879	0.000322	U	0.000322	0.000954	0.000385	U	0.000385	0.001140	0.000359	U	0.000359	0.001060	0.000919	U	0.000919	0.002720	0.000252	U	0.000252	0.000746
EthylBenzene	100-41-4	7,800	110,000	13	0.000166	U	0.000166	0.001220	0.000119	U	0.000119	0.000879	0.000129	U	0.000129	0.000954	0.000154	U	0.000154	0.001140	0.000144	U	0.000144	0.001060	0.000369	U	0.000369	0.002720	0.000101	U	0.000101	0.000746
Isopropylbenzene	98-82-8	NS	NS	NS	0.000192	U	0.000192	0.001220	0.000138	U	0.000138	0.000879	0.000150	U	0.000150	0.000954	0.000179	U	0.000179	0.001140	0.000167	U	0.000167	0.001060	0.000427	U	0.000427	0.002720	0.000117	U	0.000117	0.000746
m+p-Xylenes	179601-23-1	12,000	170,000	19	0.000309	U	0.000309	0.002440	0.000222	U	0.000222	0.001760	0.000241	U	0.000241	0.001910	0.000288	U	0.000288	0.002280	0.000268	U	0.000268	0.002130	0.000687	U	0.000687	0.005440	0.000188	U	0.000188	0.001490
Methyl Acetate	79-20-9	78,000	NS	22	0.000162	U	0.000162	0.001220	0.000116	U	0.000116	0.000879	0.000126	U	0.000126	0.000954	0.000151	U	0.000151	0.001140	0.000141	U	0.000141	0.001060	0.000361	U	0.000361	0.002720	0.000099	U	0.000099	0.000746
Methyl tert-Butyl Ether	1634-04-4	110	320	0.2	0.000207	U	0.000207	0.001220	0.000148	U	0.000148	0.000879	0.000161	U	0.000161	0.000954	0.000193	U	0.000193	0.001140	0.000180	U	0.000180	0.001060	0.000460	U	0.000460	0.002720	0.000126	U	0.000126	0.000746
Methylcyclohexane	108-87-2	NS	NS	NS	0.000197	U	0.000197	0.001220	0.000141	U	0.000141	0.000879	0.000154	U	0.000154	0.000954	0.000184	U	0.000184	0.001140	0.000171	U	0.000171	0.001060	0.000438	U	0.000438	0.002720	0.000120	U	0.000120	0.000746
Methylene Chloride	75-09-2	46	230	0.01	0.000367	U	0.000367	0.001220	0.000264	U	0.000264	0.000879	0.000287	U	0.000287	0.000954	0.000343	U	0.000343	0.001140	0.000319	U	0.000319	0.001060	0.000818	U	0.000818	0.002720	0.000224	U	0.000224	0.000746
o-Xylene	95-47-6	12,000	170,000	19	0.000157	U	0.000157	0.001220	0.000113	U	0.000113	0.000879	0.000123	U	0.000123	0.000954	0.000147	U	0.000147	0.001140	0.000137	U	0.000137	0.001060	0.000350	U	0.000350	0.002720	0.000096	U	0.000096	0.000746
Styrene	100-42-5	90	260	3	0.000175	U	0.000175	0.001220	0.000126	U	0.000126	0.000879	0.000136	U	0.000136	0.000954	0.000163	U	0.000163	0.001140	0.000152	U	0.000152	0.001060	0.000389	U	0.000389	0.002720	0.000107	U	0.000107	0.000746
tert-Butyl alcohol	75-65-0	1,400	11,000	0.3	0.002570	U	0.002570	0.012200	0.001840	U	0.001840	0.008790	0.002000	U	0.002000	0.009540	0.002390	U	0.002390	0.011400	0.002230	U	0.002230	0.010600	0.005720	U	0.005720	0.027200	0.001570	U	0.001570	0.007460
Tetrachloroethene	127-18-4	43	1,500	0.005	0.00329		0.000121	0.001220	0.00240		0.000087	0.000879	0.000094	U	0.000094	0.000954	0.000113	U	0.000113	0.001140	0.000105	U	0.000105	0.001060	0.000270	U	0.000270	0.002720	0.000074	U	0.000074	0.000746
Toluene	108-88-3	6,300	91,000	7	0.000098	U	0.000098	0.001220	0.000071	U	0.000071	0.000879	0.000077	U	0.000077	0.000954	0.000092	U	0.000092	0.001140	0.000086	U	0.000086	0.001060	0.000219	U	0.000219	0.002720	0.000060	U	0.000060	0.000746
Total Xylenes	1330-20-7	12,000	170,000	19	0.000157	U	0.000157	0.001220	0.000113	U	0.000113	0.000879	0.000123	U	0.000123	0.000954	0.000147	U	0.000147	0.001140	0.000137	U	0.000137	0.001060	0.000350	U	0.000350	0.002720	0.000096	U	0.000096	0.000746
trans-1,2-Dichloroethene	156-60-5	300	720	0.6	0.000166	U	0.000166	0.001220	0.000119	U	0.000119	0.000879	0.000129	U	0.000129	0.000954	0.000154	U	0.000154	0.001140	0.000144	U	0.000144	0.001060	0.000369	U	0.000369	0.002720	0.000101	U	0.000101	0.000746
trans-1,3-Dichloropropene	10061-02-6	2	7	0.005	0.000233	U	0.000233	0.001220	0.000168	U	0.000168	0.000879	0.000182	U	0.000182	0.000954	0.000218	U	0.000218	0.001140	0.000203	U	0.000203	0.001060	0.000520	U	0.000520	0.002720	0.000142	U	0.000142	0.000746
Trichloroethene	79-01-6	3	10	0.01	0.000180	U	0.000180	0.001220	0.000129	U	0.000129	0.000879	0.000140	U	0.000140	0.000954	0.000168	U	0.000168	0.001140	0.000156	U	0.000156	0.001060	0.000400	U	0.000400	0.002720	0.000110	U	0.000110	0.000746
Trichlorofluoromethane	75-69-4	23,000	340,000	34	0.000141	U	0.000141	0.001220	0.000101	U	0.000101	0.000879	0.000110	U	0.000110	0.000954	0.000131	U	0.000131	0.001140	0.000122	U	0.000122	0.001060	0.000313	U	0.000313	0.002720	0.000086	U	0.000086	0.000746
Vinyl chloride	75-01-4	0.7	2	0.005	0.000232	U	0.000232	0.001220	0.000167	U	0.000167	0.000879	0.000181	U	0.000181	0.000954	0.000217	U	0.000217	0.001140	0.000202	U	0.000202	0.001060	0.000517	U	0.000517	0.002720	0.000142	U	0.000142	0.000746
Tentatively Identified Compounds		NS	NS	NS	0	J			0	J			0	J			0	J			0	J			0	J			0	J		

Table 1. Soil Analytical Data Summary
Volatile Organic Compounds

Area of Concern **Sample Identifier** **Laboratory Identifier** **Sample Date**	CAS Number	NJDEP Residential Direct Contact SRS[1]	NJDEP Nonresidential Direct Contact SRS[2]	NJDEP Default Impact to Ground Water SSL[3]	8100452-12 STP-4B 10/10/2018				8100452-14 STP-7 10/10/2018			
Volatile Organics - GC/MS (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
1,1,1-Trichloroethane	71-55-6	160,000	NS	0.3	0.000129	U	0.000129	0.000887	0.000133	U	0.000133	0.000912
1,1,2,2-Tetrachloroethane	79-34-5	1	3	0.007	0.000122	U	0.000122	0.000887	0.000126	U	0.000126	0.000912
1,1,2-Trichloro-1,2,2 Trifluoroethane	76-13-1	NS	NS	NS	0.000379	U	0.000379	0.000887	0.000390	U	0.000390	0.000912
1,1,2-Trichloroethane	79-00-5	2	6	0.02	0.000149	U	0.000149	0.000887	0.000154	U	0.000154	0.000912
1,1-Dichloroethane	75-34-3	8	24	0.2	0.000129	U	0.000129	0.000887	0.000133	U	0.000133	0.000912
1,1-Dichloroethene	75-35-4	11	150	0.008	0.000164	U	0.000164	0.000887	0.000169	U	0.000169	0.000912
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	0.000192	U	0.000192	0.000887	0.000197	U	0.000197	0.000912
1,2,4-Trichlorobenzene	120-82-1	73	820	0.7	0.000236	U	0.000236	0.000887	0.000243	U	0.000243	0.000912
1,2,4-Trimethylbenzene	95-63-6	NS	NS	NS	0.000122	U	0.000122	0.000887	0.000126	U	0.000126	0.000912
1,2-Dibromo-3-chloropropane	96-12-8	0.08	0.20	0.005	0.000216	U	0.000216	0.000887	0.000222	U	0.000222	0.000912
1,2-Dibromoethane	106-93-4	0.008	0.04	0.005	0.000112	U	0.000112	0.000887	0.000115	U	0.000115	0.000912
1,2-Dichlorobenzene	95-50-1	5,300	59,000	17	0.000156	U	0.000156	0.000887	0.000161	U	0.000161	0.000912
1,2-Dichloroethane	107-06-2	0.9	3	0.005	0.000125	U	0.000125	0.000887	0.000129	U	0.000129	0.000912
1,2-Dichloropropane	78-87-5	2	5	0.005	0.000145	U	0.000145	0.000887	0.000150	U	0.000150	0.000912
1,3-Dichlorobenzene	541-73-1	5,300	59,000	19	0.000065	U	0.000065	0.000887	0.000067	U	0.000067	0.000912
1,4-Dichlorobenzene	106-46-7	5	13	2	0.000128	U	0.000128	0.000887	0.000131	U	0.000131	0.000912
2-Butanone	78-93-3	3,100	44,000	0.9	0.000145	U	0.000145	0.002220	0.000149	U	0.000149	0.002280
2-Hexanone	591-78-6	NS	NS	NS	0.000083	U	0.000083	0.000887	0.000085	U	0.000085	0.000912
4-Methyl-2-pentanone	108-10-1	NS	NS	NS	0.000111	U	0.000111	0.000887	0.000114	U	0.000114	0.000912
Acetone	67-64-1	70,000	NS	19	0.000269	U	0.000269	0.002220	0.000276	U	0.000276	0.002280
Benzene	71-43-2	2	5	0.005	0.000081	U	0.000081	0.000887	0.000083	U	0.000083	0.000912
Bromochloromethane	74-97-5	NS	NS	NS	0.000164	U	0.000164	0.000887	0.000168	U	0.000168	0.000912
Bromodichloromethane	75-27-4	1	3	0.005	0.000111	U	0.000111	0.000887	0.000114	U	0.000114	0.000912
Bromoform	75-25-2	81	280	0.03	0.000156	U	0.000156	0.000887	0.000160	U	0.000160	0.000912
Bromomethane	74-83-9	25	59	0.04	0.000256	U	0.000256	0.000887	0.000263	U	0.000263	0.000912
Carbon disulfide	75-15-0	7,800	110,000	6	0.000127	U	0.000127	0.000887	0.000131	U	0.000131	0.000912
Carbon Tetrachloride	56-23-5	2	4	0.005	0.000133	U	0.000133	0.000887	0.000137	U	0.000137	0.000912
Chlorobenzene	108-90-7	510	7,400	0.6	0.000129	U	0.000129	0.000887	0.000132	U	0.000132	0.000912
Chlorodibromomethane	124-48-1	3	8	0.005	0.000109	U	0.000109	0.000887	0.000112	U	0.000112	0.000912
Chloroethane	75-00-3	220	1,100	NS	0.000151	U	0.000151	0.000887	0.000155	U	0.000155	0.000912
Chloroform	67-66-3	0.6	2	0.4	0.000149	U	0.000149	0.000887	0.000153	U	0.000153	0.000912
Chloromethane	74-87-3	4	12	NS	0.000341	U	0.000341	0.000887	0.000351	U	0.000351	0.000912
cis-1,2-Dichloroethene	156-59-2	230	560	0.3	0.000043	U	0.000043	0.000887	0.000044	U	0.000044	0.000912
cis-1,3-Dichloropropene	10061-01-5	2	7	0.005	0.000112	U	0.000112	0.000887	0.000115	U	0.000115	0.000912
Cyclohexane	110-82-7	NS	NS	NS	0.000196	U	0.000196	0.000887	0.000202	U	0.000202	0.000912
Dichlorodifluoromethane	75-71-8	490	230,000	39	0.000299	U	0.000299	0.000887	0.000308	U	0.000308	0.000912
EthylBenzene	100-41-4	7,800	110,000	13	0.000120	U	0.000120	0.000887	0.000124	U	0.000124	0.000912
Isopropylbenzene	98-82-8	NS	NS	NS	0.000139	U	0.000139	0.000887	0.000143	U	0.000143	0.000912
m+p-Xylenes	179601-23-1	12,000	170,000	19	0.000224	U	0.000224	0.001770	0.000230	U	0.000230	0.001820
Methyl Acetate	79-20-9	78,000	NS	22	0.000117	U	0.000117	0.000887	0.000121	U	0.000121	0.000912
Methyl tert-Butyl Ether	1634-04-4	110	320	0.2	0.000150	U	0.000150	0.000887	0.000154	U	0.000154	0.000912
Methylcyclohexane	108-87-2	NS	NS	NS	0.000143	U	0.000143	0.000887	0.000147	U	0.000147	0.000912
Methylene Chloride	75-09-2	46	230	0.01	0.000266	U	0.000266	0.000887	0.000274	U	0.000274	0.000912
o-Xylene	95-47-6	12,000	170,000	19	0.000114	U	0.000114	0.000887	0.000117	U	0.000117	0.000912
Styrene	100-42-5	90	260	3	0.000127	U	0.000127	0.000887	0.000130	U	0.000130	0.000912
tert-Butyl alcohol	75-65-0	1,400	11,000	0.3	0.001860	U	0.001860	0.008870	0.001910	U	0.001910	0.009120
Tetrachloroethene	127-18-4	43	1,500	0.005	0.000088	U	0.000088	0.000887	0.000090	U	0.000090	0.000912
Toluene	108-88-3	6,300	91,000	7	0.000071	U	0.000071	0.000887	0.000073	U	0.000073	0.000912
Total Xylenes	1330-20-7	12,000	170,000	19	0.000114	U	0.000114	0.000887	0.000117	U	0.000117	0.000912
trans-1,2-Dichloroethene	156-60-5	300	720	0.6	0.000120	U	0.000120	0.000887	0.000124	U	0.000124	0.000912
trans-1,3-Dichloropropene	10061-02-6	2	7	0.005	0.000169	U	0.000169	0.000887	0.000174	U	0.000174	0.000912
Trichloroethene	79-01-6	3	10	0.01	0.000130	U	0.000130	0.000887	0.000134	U	0.000134	0.000912
Trichlorofluoromethane	75-69-4	23,000	340,000	34	0.000102	U	0.000102	0.000887	0.000105	U	0.000105	0.000912
Vinyl chloride	75-01-4	0.7	2	0.005	0.000168	U	0.000168	0.000887	0.000173	U	0.000173	0.000912
Tentatively Identified Compounds		NS	NS	NS	0	J			0	J		

Table 2. Soil Analytical Data Summary
Base Neutral and Acid Extractable Compounds

Area of Concern Sample Identifier Laboratory Identifier Sample Date	CAS Number	NJDEP Residential Direct Contact SRS[1]	NJDEP Nonresidential Direct Contact SRS[2]	NJDEP Default Impact to Ground Water SSL[3]	8100452-01 NTP-1A 10/10/2018				8100452-02 NTP-2A 10/10/2018				8100452-03 NTP-2B 10/10/2018				8100452-04 NTP-3B 10/10/2018				8100452-05 NTP-4B 10/10/2018				8100452-06 NTP-6 10/10/2018				8100452-07 NTP-7 10/10/2018			
Semivolatile Organics - GC/MS (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
1-Methylnaphthalene	90-12-0	NS	NS	NS	0.0355	U	0.0355	0.2220	0.12	U	0.12	0.216	0.12	U	0.12	0.217	0.122	U	0.122	0.219	0.121	U	0.121	0.217	0.0364	U	0.0364	0.2280	0.122	U	0.122	0.219
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	0.0228	U	0.0228	0.1480	NA				NA				NA				NA				0.0234	U	0.0234	0.1520	NA			
2,4,5-Trichlorophenol	95-95-4	6,100	68,000	68	0.0201	U	0.0201	0.1480	NA				NA				NA				NA				0.0206	U	0.0206	0.1520	NA			
2,4,6-Trichlorophenol	88-06-2	19	74	0.2	0.00927	U	0.00927	0.14800	NA				NA				NA				NA				0.00950	U	0.00950	0.15200	NA			
2,4-Dichlorophenol	120-83-2	180	2,100	0.2	0.0149	U	0.0149	0.1480	NA				NA				NA				NA				0.0153	U	0.0153	0.1520	NA			
2,4-Dimethylphenol	105-67-9	1,200	14,000	1	0.0146	U	0.0146	0.1480	NA				NA				NA				NA				0.0149	U	0.0149	0.1520	NA			
2,4-Dinitrophenol	51-28-5	120	1,400	0.3	0.0214	U	0.0214	0.7420	NA				NA				NA				NA				0.0219	U	0.0219	0.7610	NA			
2,4-Dinitrotoluene	121-14-2	0.7	3	0.2	0.0158	U	0.0158	0.1480	NA				NA				NA				NA				0.0162	U	0.0162	0.1520	NA			
2,6-Dinitrotoluene	606-20-2	0.7	3	0.2	0.0354	U	0.0354	0.1480	NA				NA				NA				NA				0.0363	U	0.0363	0.1520	NA			
2-Chloronaphthalene	91-58-7	NS	NS	NS	0.0170	U	0.0170	0.1480	NA				NA				NA				NA				0.0174	U	0.0174	0.1520	NA			
2-Chlorophenol	95-57-8	310	2,200	0.8	0.0196	U	0.0196	0.1480	NA				NA				NA				NA				0.0201	U	0.0201	0.1520	NA			
2-Methylnaphthalene	91-57-6	230	2,400	8	0.0355	U	0.0355	0.2220	0.0345	U	0.0345	0.216	0.0346	U	0.0346	0.217	0.0349	U	0.0349	0.2190	0.0347	U	0.0347	0.217	0.0364	U	0.0364	0.2280	0.0349	U	0.0349	0.219
2-Methylphenol	95-48-7	310	3,400	NS	0.0293	U	0.0293	0.1480	NA				NA				NA				NA				0.0300	U	0.0300	0.1520	NA			
2-Nitroaniline	88-74-4	39	23,000	NS	0.0119	U	0.0119	0.1480	NA				NA				NA				NA				0.0122	U	0.0122	0.1520	NA			
2-Nitrophenol	88-75-5	NS	NS	NS	0.0165	U	0.0165	0.1480	NA				NA				NA				NA				0.0169	U	0.0169	0.1520	NA			
3,3'-Dichlorobenzidine	91-94-1	1	4	0.2	0.0156	U	0.0156	0.1480	NA				NA				NA				NA				0.0160	U	0.0160	0.1520	NA			
3+4-Methylphenol	106-44-5	31	340	NS	0.0271	U	0.0271	0.1480	NA				NA				NA				NA				0.0278	U	0.0278	0.1520	NA			
3-Nitroaniline	99-09-2	NS	NS	NS	0.0275	U	0.0275	0.1480	NA				NA				NA				NA				0.0282	U	0.0282	0.1520	NA			
4,6-Dinitro-2-methylphenol	534-52-1	6	68	0.3	0.0279	U	0.0279	0.3700	NA				NA				NA				NA				0.0286	U	0.0286	0.3800	NA			
4-Bromophenyl-phenyl ether	101-55-3	NS	NS	NS	0.0211	U	0.0211	0.1480	NA				NA				NA				NA				0.0217	U	0.0217	0.1520	NA			
4-Chloro-3-methylphenol	59-50-7	NS	NS	NS	0.0234	U	0.0234	0.1480	NA				NA				NA				NA				0.0239	U	0.0239	0.1520	NA			
4-Chloroaniline	106-47-8	NS	NS	NS	0.0052	U	0.0052	0.1480	NA				NA				NA				NA				0.0053	U	0.0053	0.1520	NA			
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	NS	0.0080	U	0.0080	0.1480	NA				NA				NA				NA				0.0082	U	0.0082	0.1520	NA			
4-Nitroaniline	100-01-6	NS	NS	NS	0.0741	U	0.0741	0.1480	NA				NA				NA				NA				0.0759	U	0.0759	0.1520	NA			
4-Nitrophenol	100-02-7	NS	NS	NS	0.0095	U	0.0095	0.1480	NA				NA				NA				NA				0.0097	U	0.0097	0.1520	NA			
Acenaphthene	83-32-9	3,400	37,000	110	0.0084	U	0.0084	0.1480	0.0082	U	0.0082	0.144	0.0082	U	0.0082	0.144	0.0083	U	0.0083	0.146	0.0083	U	0.0083	0.145	0.0087	U	0.0087	0.1520	0.0083	U	0.0083	0.146
Acenaphthylene	208-96-8	NS	300,000	NS	0.0052	U	0.0052	0.1480	0.005	U	0.005	0.144	0.0050	U	0.005	0.144	0.0051	U	0.0051	0.146	0.0050	U	0.005	0.145	0.0053	U	0.0053	0.1520	0.0051	U	0.0051	0.146
Acetophenone	98-86-2	2	5	3	0.0147	U	0.0147	0.1480	NA				NA				NA				NA				0.0151	U	0.0151	0.1520	NA			
Anthracene	120-12-7	17,000	30,000	2,400	0.0215	U	0.0215	0.1480	0.0209	U	0.0209	0.144	0.0209	U	0.0209	0.144	0.0211	U	0.0211	0.146	0.0210	U	0.021	0.145	0.0220	U	0.0220	0.1520	0.0211	U	0.0211	0.146
Atrazine	1912-24-9	210	2,400	0.2	0.0139	U	0.0139	0.1480	NA				NA				NA				NA				0.0143	U	0.0143	0.1520	NA			
Benzaldehyde	100-52-7	6,100	68,000	NS	0.0455	U	0.0455	0.1480	NA				NA				NA				NA				0.0466	U	0.0466	0.1520	NA			
Benzo(a)anthracene	56-55-3	5	17	0.8	0.0995	J	0.0149	0.1480	0.0754	J	0.0145	0.144	0.0876	J	0.0145	0.144	0.0147	U	0.0147	0.146	0.0146	U	0.0146	0.145	0.0153	U	0.0153	0.1520	0.133	J	0.0147	0.146
Benzo(a)pyrene	50-32-8	0.5	2	0.2	0.0887	J	0.0258	0.1480	0.0733	J	0.0251	0.144	0.0814	J	0.0251	0.144	0.0254	U	0.0254	0.146	0.0252	U	0.0252	0.145	0.0265	U	0.0265	0.1520	0.105	J	0.0254	0.146
Benzo(b)fluoranthene	205-99-2	5	17	2	0.107	J	0.0208	0.1480	0.0202	U	0.0202	0.144	0.0987	J	0.0203	0.144	0.0205	U	0.0205	0.146	0.0203	U	0.0203	0.145	0.0213	U	0.0213	0.1520	0.169		0.0205	0.146
Benzo(g,h,i)perylene	191-24-2	380,000	30,000	NS	0.0702	J	0.0120	0.1480	0.0911	J	0.0117	0.144	0.0663	J	0.0117	0.144	0.0118	U	0.0118	0.146	0.0117	U	0.0117	0.145	0.0123	U	0.0123	0.1520	0.124	J	0.0118	0.146
Benzo(k)fluoranthene	207-08-9	45	170	25	0.0788	J	0.0170	0.1480	0.106	J	0.0165	0.144	0.0460	J	0.0166	0.144	0.0168	U	0.0168	0.146	0.0166	U	0.0166	0.145	0.0174	U	0.0174	0.1520	0.106	J	0.0167	0.146
Biphenyl	92-52-4	61	240	140	0.0130	U	0.0130	0.1480	NA				NA				NA				NA				0.0133	U	0.0133	0.1520	NA			
bis(2-chloroethoxy)methane	111-91-1	NS	NS	NS	0.0205	U	0.0205	0.1480	NA				NA				NA				NA				0.0210	U	0.0210	0.1520	NA			
bis(2-chloroethyl)ether	111-44-4	0.4	2	0.2	0.0162	U	0.0162	0.1480	NA				NA				NA				NA				0.0166	U	0.0166	0.1520	NA			
bis(2-chloroisopropyl)ether	108-60-1	23	67	5	0.0533	U	0.0533	0.1480	NA				NA				NA				NA				0.0546	U	0.0546	0.1520	NA			
bis(2-ethylhexyl)phthalate	117-81-7	35	140	1,200	0.0296	U	0.0296	0.1480	NA				NA				NA				NA				0.0303	U	0.0303	0.1520	NA			
Butylbenzylphthalate	85-68-7	1,200	14,000	230	0.0135	U	0.0135	0.1480	NA				NA				NA				NA				0.0138	U	0.0138	0.1520	NA			
Caprolactam	105-60-2	31,000	340,000	12	0.0191	U	0.0191	0.1480	NA				NA				NA				NA				0.0196	U	0.0196	0.1520	NA			
Carbazole	86-74-8	24	96	NS	0.0285	U	0.0285	0.3700	NA				NA				NA				NA				0.0292	U	0.0292	0.3800	NA			
Chrysene	218-01-9	450	1,700	80	0.0909	J	0.0101	0.1480	0.0911	J	0.0099	0.1440	0.0730	J	0.0099	0.1440	0.0100	U	0.0100	0.1460	0.0099	U	0.0099	0.1450	0.0104	U	0.0104	0.1520	0.134	J	0.0100	0.1460
Dibenzo(a,h)anthracene	53-70-3	1	2	0.8	0.0147	U	0.0147	0.1480	0.0143	U	0.0143	0.1440	0.0143	U	0.0143	0.1440	0.0145	U	0.0145	0.1460	0.0143	U	0.0143	0.1450	0.0151	U	0.0151	0.1520	0.0144	U	0.0144	0.1460
Dibenzofuran	132-64-9	NS	NS	NS	0.0088	U	0.0088	0.1480	NA				NA				NA				NA				0.0090	U	0.0090	0.1520	NA			
Diethylphthalate	84-66-2	49,000	550,000	88	0.0287	U	0.0287	0.1480	NA				NA				NA				NA				0.0294	U	0.0294	0.1520	NA			
Dimethylphthalate	131-11-3	NS	NS	NS	0.0092	U	0.0092	0.1480	NA				NA				NA				NA				0.0721	J	0.0094	0.1520	NA			
Di-n-butylphthalate	84-74-2	6,100	68,000	760	0.0605	U	0.0605	0.1480	NA				NA				NA				NA				0.0620	U	0.0620	0.1520	NA			
Di-n-octylphthalate	117-84-0	2,400	27,000	3,300	0.0304	U	0.0304	0.1480	NA				NA				NA				NA				0.0311	U	0.0311	0.1520	NA			
Fluoranthene	206-44-0	2,300	24,000	1300	0.167		0.0139	0.1480	0.12	J	0.0135	0.144	0.153		0.0135	0.1440	0.0137	U	0.0137	0.1460	0.0136	U	0.0136	0.1450	0.0143	U	0.0143	0.1520	0.193		0.0137	0.1460
Fluorene	86-73-7	2,300	24,000	170	0.0123	U	0.0123	0.1480	0.012	U	0.012	0.144	0.0120	U	0.0120	0.1440	0.0122	U	0.0122	0.1460	0.0121	U	0.0121	0.1450	0.0127	U	0.0127	0.1520	0.0122	U	0.0122	0.1460
Hexachlorobenzene	118-74-1	0.3	1	0.2	0.0194	U	0.0194	0.1480	NA				NA				NA				NA				0.0198	U	0.0198	0.1520	NA			
Hexachlorobutadiene	87-68-3	6	25	0.9	0.0711	U	0.0711	0.1480	NA				NA				NA				NA				0.0729	U	0.0729	0.1520	NA			
Hexachlorocyclopentadiene	77-47-4	45	110	320	0.0617	U	0.0617	0.3700	NA				NA				NA				NA				0.0633	U	0.0633	0.3800	NA			
Hexachloroethane	67-72-1	12	48	0.2	0.0162	U	0.0162	0.1480	NA				NA				NA				NA				0.0166	U	0.0166	0.1520	NA			
Indeno(1,2,3-cd)pyrene	193-39-5	5	17	7	0.0610	J	0.0159	0.1480	0.0155	U	0.0155	0.1440	0.0155	U	0.0155	0.1440	0.0157	U	0.0157	0.1460	0.0155	U	0.0155	0.1450	0.0163	U	0.0163	0.1520	0.0157	U	0.0157	0.1460
Isophorone	78-59-1	510	2,000	0.2	0.0097	U	0.0097	0.1480	NA				NA				NA				NA				0.0099	U	0.0099	0.1520	NA			
Naphthalene	91-20-3	6	17	25	0.0110	U	0.0110	0.1480	0.0107	U	0.0107	0.1440	0.0107	U	0.0107	0.1440	0.0108	U	0.0108	0.1460	0.0107	U	0.0107	0.1450	0.0112	U	0.0112	0.1520	0.0108	U	0.0108	0.1460
Nitrobenzene	98-95-3	5	14	0.2	0.0251	U	0.0251	0.1480	NA				NA				NA				NA				0.0258	U	0.0258	0.1520	NA			
n-Nitroso-di-n-propylamine	621-64-7	0.2	0.3	0.2	0.0079	U	0.0079	0.1480	NA				NA				NA				NA				0.0081	U	0.0081	0.1520	NA			
n-Nitrosodiphenylamine	86-30-6	99	390	0.4	0.0316	U	0.0316	0.1480	NA				NA				NA				NA				0.0324	U	0.0324	0.1520	NA			
Phenanthrene	85-01-8	NS	300,000	NS	0.126	J	0.0195	0.1480	0.0544	J	0.0189	0.1440	0.114	J	0.0190	0.1440	0.0192	U	0.0192	0.1460	0.0190	U	0.0190	0.1450	0.0200	U	0.0200	0.1520	0.0964	J	0.0192	0.1460
Phenol	108-95-2	18,000	210,000	8	0.0120	U	0.0120	0.1480	NA				NA				NA				NA				0.0123	U	0.0123	0.1520	NA			
Pyrene	129-00-0	1,700	18,000	840	0.158		0.0109	0.1480	0.130	J	0.0106	0.1440	0.137	J	0.0106	0.1440	0.0107	U	0.0107	0.1460	0.0106	U	0.0106	0.1450	0.0112	U	0.0112	0.1520	0.184		0.0107	0.1460
Tentatively Identified Compounds		NS	NS	NS	0	J																			0	J						

Table 2. Soil Analytical Data Summary
Base Neutral and Acid Extractable Compounds

Area of Concern																															
Sample Identifier	CAS Number	NJDEP Residential Direct Contact SRS[1]	NJDEP Nonresidential Direct Contact SRS[2]	NJDEP Default Impact to Ground Water SSL[3]	8100452-08 STP-1B 10/10/2018				8100452-09 STP-2B 10/10/2018				8100452-10 STP-3B 10/10/2018				8100452-11 STP-4A 10/10/2018				8100452-12 STP-4B 10/10/2018				8100452-13 STP-5 10/10/2018				8100452-14 STP-7 10/10/2018			
Laboratory Identifier																															
Sample Date																															
Semivolatile Organics - GC/MS (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
1-Methylnaphthalene	90-12-0	NS	NS	NS	0.1240	U	0.1240	0.223	0.121	U	0.121	0.218	0.121	U	0.121	0.219	0.122	U	0.1220	0.221	0.0348	U	0.0348	0.2180	0.12	U	0.12	0.216	0.0343	U	0.0343	0.2150
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	NA				NA				NA				NA				0.0224	U	0.0224	0.1450	NA				0.0221	U	0.0221	0.1430
2,4,5-Trichlorophenol	95-95-4	6,100	68,000	68	NA				NA				NA				NA				0.0197	U	0.0197	0.1450	NA				0.0195	U	0.0195	0.1430
2,4,6-Trichlorophenol	88-06-2	19	74	0.2	NA				NA				NA				NA				0.00908	U	0.00908	0.14500	NA				0.00896	U	0.00896	0.14300
2,4-Dichlorophenol	120-83-2	180	2,100	0.2	NA				NA				NA				NA				0.0146	U	0.0146	0.1450	NA				0.0144	U	0.0144	0.1430
2,4-Dimethylphenol	105-67-9	1,200	14,000	1	NA				NA				NA				NA				0.0143	U	0.0143	0.1450	NA				0.0141	U	0.0141	0.1430
2,4-Dinitrophenol	51-28-5	120	1,400	0.3	NA				NA				NA				NA				0.0209	U	0.0209	0.7270	NA				0.0207	U	0.0207	0.7180
2,4-Dinitrotoluene	121-14-2	0.7	3	0.2	NA				NA				NA				NA				0.0155	U	0.0155	0.1450	NA				0.0153	U	0.0153	0.1430
2,6-Dinitrotoluene	606-20-2	0.7	3	0.2	NA				NA				NA				NA				0.0347	U	0.0347	0.1450	NA				0.0342	U	0.0342	0.1430
2-Chloronaphthalene	91-58-7	NS	NS	NS	NA				NA				NA				NA				0.0167	U	0.0167	0.1450	NA				0.0165	U	0.0165	0.1430
2-Chlorophenol	95-57-8	310	2,200	0.8	NA				NA				NA				NA				0.0192	U	0.0192	0.1450	NA				0.0189	U	0.0189	0.1430
2-Methylnaphthalene	91-57-6	230	2,400	8	0.0356	U	0.0356	0.223	0.0348	U	0.0348	0.218	0.0349	U	0.0349	0.219	0.0352	U	0.0352	0.221	0.0348	U	0.0348	0.2180	0.0344	U	0.0344	0.216	0.0343	U	0.0343	0.2150
2-Methylphenol	95-48-7	310	3,400	NS	NA				NA				NA				NA				0.0287	U	0.0287	0.1450	NA				0.0283	U	0.0283	0.1430
2-Nitroaniline	88-74-4	39	23,000	NS	NA				NA				NA				NA				0.0117	U	0.0117	0.1450	NA				0.0115	U	0.0115	0.1430
2-Nitrophenol	88-75-5	NS	NS	NS	NA				NA				NA				NA				0.0161	U	0.0161	0.1450	NA				0.0159	U	0.0159	0.1430
3,3'-Dichlorobenzidine	91-94-1	1	4	0.2	NA				NA				NA				NA				0.0153	U	0.0153	0.1450	NA				0.0151	U	0.0151	0.1430
3+4-Methylphenol	106-44-5	31	340	NS	NA				NA				NA				NA				0.0266	U	0.0266	0.1450	NA				0.0263	U	0.0263	0.1430
3-Nitroaniline	99-09-2	NS	NS	NS	NA				NA				NA				NA				0.0269	U	0.0269	0.1450	NA				0.0266	U	0.0266	0.1430
4,6-Dinitro-2-methylphenol	534-52-1	6	68	0.3	NA				NA				NA				NA				0.0274	U	0.0274	0.3630	NA				0.0270	U	0.0270	0.3580
4-Bromophenyl-phenyl ether	101-55-3	NS	NS	NS	NA				NA				NA				NA				0.0207	U	0.0207	0.1450	NA				0.0204	U	0.0204	0.1430
4-Chloro-3-methylphenol	59-50-7	NS	NS	NS	NA				NA				NA				NA				0.0229	U	0.0229	0.1450	NA				0.0226	U	0.0226	0.1430
4-Chloroaniline	106-47-8	NS	NS	NS	NA				NA				NA				NA				0.0051	U	0.0051	0.1450	NA				0.0050	U	0.0050	0.1430
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	NS	NA				NA				NA				NA				0.0078	U	0.0078	0.1450	NA				0.0077	U	0.0077	0.1430
4-Nitroaniline	100-01-6	NS	NS	NS	NA				NA				NA				NA				0.0726	U	0.0726	0.1450	NA				0.0717	U	0.0717	0.1430
4-Nitrophenol	100-02-7	NS	NS	NS	NA				NA				NA				NA				0.0093	U	0.0093	0.1450	NA				0.0092	U	0.0092	0.1430
Acenaphthene	83-32-9	3,400	37,000	110	0.0085	U	0.0085	0.148	0.0083	U	0.0083	0.1450	0.0083	U	0.0083	0.1450	0.0084	U	0.0084	0.1470	0.0083	U	0.0083	0.1450	0.0082	U	0.0082	0.1440	0.0082	U	0.0082	0.1430
Acenaphthylene	208-96-8	NS	300,000	NS	0.0052	U	0.0052	0.148	0.0051	U	0.0051	0.1450	0.0051	U	0.0051	0.1450	0.0051	U	0.0051	0.1470	0.0051	U	0.0051	0.1450	0.0050	U	0.0050	0.1440	0.0050	U	0.0050	0.1430
Acetophenone	98-86-2	2	5	3	NA				NA				NA				NA				0.0144	U	0.0144	0.1450	NA				0.0142	U	0.0142	0.1430
Anthracene	120-12-7	17,000	30,000	2,400	0.0215	U	0.0215	0.148	0.0211	U	0.0211	0.1450	0.0211	U	0.0211	0.1450	0.0213	U	0.0213	0.1470	0.0210	U	0.0210	0.1450	0.0208	U	0.0208	0.1440	0.0208	U	0.0208	0.1430
Atrazine	1912-24-9	210	2,400	0.2	NA				NA				NA				NA				0.0136	U	0.0136	0.1450	NA				0.0135	U	0.0135	0.1430
Benzaldehyde	100-52-7	6,100	68,000	NS	NA				NA				NA				NA				0.0446	U	0.0446	0.1450	NA				0.0440	U	0.0440	0.1430
Benzo(a)anthracene	56-55-3	5	17	0.8	0.0150	U	0.0150	0.148	0.0146	U	0.0146	0.1450	0.0146	U	0.0146	0.1450	0.0148	U	0.0148	0.1470	0.0146	U	0.0146	0.1450	0.0145	U	0.0145	0.1440	0.0144	U	0.0144	0.1430
Benzo(a)pyrene	50-32-8	0.5	2	0.2	0.0259	U	0.0259	0.148	0.0253	U	0.0253	0.1450	0.0253	U	0.0253	0.1450	0.0256	U	0.0256	0.1470	0.0253	U	0.0253	0.1450	0.0250	U	0.0250	0.1440	0.0250	U	0.0250	0.1430
Benzo(b)fluoranthene	205-99-2	5	17	2	0.0209	U	0.0209	0.148	0.0204	U	0.0204	0.1450	0.0204	U	0.0204	0.1450	0.0206	U	0.0206	0.1470	0.0204	U	0.0204	0.1450	0.0202	U	0.0202	0.1440	0.0201	U	0.0201	0.1430
Benzo(g,h,i)perylene	191-24-2	380,000	30,000	NS	0.0121	U	0.0121	0.148	0.0118	U	0.0118	0.1450	0.0118	U	0.0118	0.1450	0.0119	U	0.0119	0.1470	0.0118	U	0.0118	0.1450	0.0117	U	0.0117	0.1440	0.0116	U	0.0116	0.1430
Benzo(k)fluoranthene	207-08-9	45	170	25	0.0171	U	0.0171	0.148	0.0167	U	0.0167	0.1450	0.0167	U	0.0167	0.1450	0.0169	U	0.0169	0.1470	0.0167	U	0.0167	0.1450	0.0165	U	0.0165	0.1440	0.0165	U	0.0165	0.1430
Biphenyl	92-52-4	61	240	140	NA				NA				NA				NA				0.0128	U	0.0128	0.1450	NA				0.0126	U	0.0126	0.1430
bis(2-chloroethoxy)methane	111-91-1	NS	NS	NS	NA				NA				NA				NA				0.0201	U	0.0201	0.1450	NA				0.0198	U	0.0198	0.1430
bis(2-chloroethyl)ether	111-44-4	0.4	2	0.2	NA				NA				NA				NA				0.0159	U	0.0159	0.1450	NA				0.0157	U	0.0157	0.1430
bis(2-chloroisopropyl)ether	108-60-1	23	67	5	NA				NA				NA				NA				0.0522	U	0.0522	0.1450	NA				0.0515	U	0.0515	0.1430
bis(2-ethylhexyl)phthalate	117-81-7	35	140	1,200	NA				NA				NA				NA				0.0290	U	0.0290	0.1450	NA				0.0286	U	0.0286	0.1430
Butylbenzylphthalate	85-68-7	1,200	14,000	230	NA				NA				NA				NA				0.0132	U	0.0132	0.1450	NA				0.0130	U	0.0130	0.1430
Caprolactam	105-60-2	31,000	340,000	12	NA				NA				NA				NA				0.0188	U	0.0188	0.1450	NA				0.0185	U	0.0185	0.1430
Carbazole	86-74-8	24	96	NS	NA				NA				NA				NA				0.0279	U	0.0279	0.3630	NA				0.0275	U	0.0275	0.3580
Chrysene	218-01-9	450	1,700	80	0.0102	U	0.0102	0.1480	0.0100	U	0.0100	0.1450	0.0100	U	0.0100	0.1450	0.0101	U	0.0101	0.1470	0.0100	U	0.0100	0.1450	0.0099	U	0.0099	0.1440	0.0098	U	0.0098	0.1430
Dibenzo(a,h)anthracene	53-70-3	1	2	0.8	0.0147	U	0.0147	0.1480	0.0144	U	0.0144	0.1450	0.0144	U	0.0144	0.1450	0.0146	U	0.0146	0.1470	0.0144	U	0.0144	0.1450	0.0142	U	0.0142	0.1440	0.0142	U	0.0142	0.1430
Dibenzofuran	132-64-9	NS	NS	NS	NA				NA				NA				NA				0.0087	U	0.0087	0.1450	NA				0.0085	U	0.0085	0.1430
Diethylphthalate	84-66-2	49,000	550,000	88	NA				NA				NA				NA				0.0281	U	0.0281	0.1450	NA				0.0278	U	0.0278	0.1430
Dimethylphthalate	131-11-3	NS	NS	NS	NA				NA				NA				NA				0.0632	J	0.0090	0.1450	NA				0.0089	U	0.0089	0.1430
Di-n-butylphthalate	84-74-2	6,100	68,000	760	NA				NA				NA				NA				0.0593	U	0.0593	0.1450	NA				0.0585	U	0.0585	0.1430
Di-n-octylphthalate	117-84-0	2,400	27,000	3,300	NA				NA				NA				NA				0.0298	U	0.0298	0.1450	NA				0.0294	U	0.0294	0.1430
Fluoranthene	206-44-0	2,300	24,000	1300	0.0140	U	0.0140	0.1480	0.0137	U	0.0137	0.1450	0.0137	U	0.0137	0.1450	0.0138	U	0.0138	0.1470	0.0136	U	0.0136	0.1450	0.0135	U	0.0135	0.1440	0.0135	U	0.0135	0.1430
Fluorene	86-73-7	2,300	24,000	170	0.0124	U	0.0124	0.1480	0.0121	U	0.0121	0.1450	0.0121	U	0.0121	0.1450	0.0122	U	0.0122	0.1470	0.0121	U	0.0121	0.1450	0.0120	U	0.0120	0.1440	0.0119	U	0.0119	0.1430
Hexachlorobenzene	118-74-1	0.3	1	0.2	NA				NA				NA				NA				0.0190	U	0.0190	0.1450	NA				0.0187	U	0.0187	0.1430
Hexachlorobutadiene	87-68-3	6	25	0.9	NA				NA				NA				NA				0.0697	U	0.0697	0.1450	NA				0.0688	U	0.0688	0.1430
Hexachlorocyclopentadiene	77-47-4	45	110	320	NA				NA				NA				NA				0.0605	U	0.0605	0.3630	NA				0.0597	U	0.0597	0.3580
Hexachloroethane	67-72-1	12	48	0.2	NA				NA				NA				NA				0.0159	U	0.0159	0.1450	NA				0.0157	U	0.0157	0.1430
Indeno(1,2,3-cd)pyrene	193-39-5	5	17	7	0.0160	U	0.0160	0.1480	0.0156	U	0.0156	0.1450	0.0156	U	0.0156	0.1450	0.0158	U	0.0158	0.1470	0.0156	U	0.0156	0.1450	0.0154	U	0.0154	0.1440	0.0154	U	0.0154	0.1430
Isophorone	78-59-1	510	2,000	0.2	NA				NA				NA				NA				0.0095	U	0.0095	0.1450	NA				0.0094	U	0.0094	0.1430
Naphthalene	91-20-3	6	17	25	0.0110	U	0.0110	0.1480	0.0108	U	0.0108	0.1450	0.0108	U	0.0108	0.1450	0.0109	U	0.0109	0.1470	0.0108	U	0.0108	0.1450	0.0106	U	0.0106	0.1440	0.0106	U	0.0106	0.1430
Nitrobenzene	98-95-3	5	14	0.2	NA				NA				NA				NA				0.0246	U	0.0246	0.1450	NA				0.0243	U	0.0243	0.1430
n-Nitroso-di-n-propylamine	621-64-7	0.2	0.3	0.2	NA				NA				NA				NA				0.0078	U	0.0078	0.1450	NA				0.0077	U	0.0077	0.1430
n-Nitrosodiphenylamine	86-30-6	99	390	0.4	NA				NA				NA				NA				0.0310	U	0.0310	0.1450	NA				0.0306	U	0.0306	0.1430
Phenanthrene	85-01-8	NS	300,000	NS	0.0195	U	0.0195	0.1480	0.0191	U	0.0191	0.1450	0.0191	U	0.0191	0.1450	0.0193	U	0.0193	0.1470	0.0191	U	0.0191	0.1450	0.0189	U	0.0189	0.1440	0.0188	U	0.0188	0.1430
Phenol	108-95-2	18,000	210,000	8	NA				NA				NA				NA				0.0118	U	0.0118	0.1450	NA				0.0116	U	0.0116	0.1430
Pyrene	129-00-0	1,700	18,000	840	0.0109	U	0.0109	0.1480	0.0107	U	0.0107	0.1450	0.0107	U	0.0107	0.1450	0.0108	U	0.0108	0.1470	0.0107	U	0.0107	0.1450	0.0106	U	0.0106	0.1440	0.0105	U	0.0105	0.1430
Tentatively Identified Compounds		NS	NS	NS																	0	J							0	J		

Table 3. Soil Analytical Data Summary
TAL Metals, EPH, PCBs, Pesticides

Area of Concern / Sample Identifier / Laboratory Identifier / Sample Date	CAS Number	NJDEP Residential Direct Contact SRS[1]	NJDEP Nonresidential Direct Contact SRS[2]	NJDEP Default Impact to Ground Water SSL[3]	8100452-01 NTP-1A 10/10/2018				8100452-02 NTP-2A 10/10/2018				8100452-03 NTP-2B 10/10/2018				8100452-04 NTP-3B 10/10/2018				8100452-05 NTP-4B 10/10/2018				8100452-06 NTP-6 10/10/2018				8100452-07 NTP-7 10/10/2018			
TAL Metals (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Aluminum	7429-90-5	78,000	NS	6,000	3290			2.81	3800			2.62	3620			2.56	4300			2.66	5500			2.86	**6670**			2.94	4450			2.71
Antimony	7440-36-0	31	450	6	1.4	U		1.40	1.3	U		1.31	1.3	U		1.28	1.3	U		1.33	1.4	U		1.43	1.5	U		1.47	1.4	U		1.35
Arsenic	7440-38-2	19.0	19	19	1.4	U		1.40	1.3	U		1.31	1.3	U		1.28	1.3	U		1.33	1.4	U		1.43	1.71			1.47	1.4	U		1.35
Barium	7440-39-3	16,000	59,000	2,100	18.6			0.562	21.4			0.525	17.9			0.511	24.3			0.532	31.8			0.572	29.1			0.588	21.4			0.542
Beryllium	7440-41-7	16	140	0.7	0.138			0.0281	0.160			0.0262	0.184			0.0256	0.181			0.0266	0.203			0.0286	0.282			0.0294	0.160			0.0271
Cadmium	7440-43-9	78	78	2	0.28	U		0.281	0.262	U		0.262	0.256	U		0.256	0.266	U		0.266	0.286	U		0.286	0.294	U		0.294	0.271	U		0.271
Calcium	7440-70-2	NS	NS	NS	938			28.1	1260			26.2	1100			25.6	619			26.6	933			28.6	1140			29.4	1080			27.1
Chromium	7440-47-3	NS	NS	NS	5.14			0.281	6.19			0.262	5.98			0.256	7.12			0.266	11.2			0.286	9.79			0.294	6.67			0.271
Cobalt	7440-48-4	1,600	590	90	2.31			0.225	2.83			0.210	2.49			0.205	3.03			0.213	4.83			0.229	3.59			0.235	3.01			0.217
Copper	7440-50-8	3,100	45,000	11,000	8.71			0.281	10.4			0.262	9.46			0.256	7.89			0.266	9.21			0.286	10.1			0.294	8.67			0.271
Iron	7439-89-6	NS	NS	NS	7190			5.62	8240			5.25	8490			5.11	9220			5.32	12100			5.72	12300			5.88	8450			5.42
Lead	7439-92-1	400	800	90	23.8			1.40	26.2			1.31	19			1.28	6.72			1.33	5.21			1.43	7.82			1.47	11.3			1.35
Magnesium	7439-95-4	NS	NS	NS	763			56.2	952			52.5	885			51.1	946			53.2	1750			57.2	1290			58.8	1090			54.2
Manganese	7439-96-5	11,000	5,900	65	**125**			0.281	**144**			0.262	**139**			0.256	**165**			0.266	**229**			0.286	**176**			0.294	**145**			0.271
Mercury	7439-97-6	23	65	0.1	0.0544	U		0.0544	0.0465	U		0.0465	0.0510	U		0.0510	0.0497	U		0.0497	0.0502	U		0.0502	0.0508	U		0.0508	0.0479	U		0.0479
Nickel	7440-02-0	1,600	23,000	48	4.33			0.140	5.14			0.131	5.09			0.128	5.13			0.133	7.75			0.143	6.47			0.147	5.23			0.135
Potassium	9/7/7440	NS	NS	NS	212			112	251			105	233			102	252			106	261			114	361			118	230			108
Selenium	7782-49-2	390	5,700	11	1.40	U		1.40	1.3	U		1.31	1.3	U		1.28	1.3	U		1.33	1.4	U		1.43	1.5	U		1.47	1.4	U		1.35
Silver	7440-22-4	390	5,700	1	0.56	U		0.562	0.525	U		0.525	0.511	U		0.511	0.532	U		0.532	0.572	U		0.572	0.588	U		0.588	0.542	U		0.542
Sodium	7440-23-5	NS	NS	NS	107			56.2	116			52.5	93.8			51.1	136			53.2	335			57.2	132			58.8	160			54.2
Thallium	7440-28-0	withdrawn	withdrawn	3	1.40	U		1.40	1.3	U		1.31	1.3	U		1.28	1.3	U		1.33	1.4	U		1.43	1.5	U		1.47	1.4	U		1.35
Vanadium	7440-62-2	78	1,100	NS	9.94			0.562	11.2			0.525	12.0			0.511	13.4			0.532	18.9			0.572	17.4			0.588	12.8			0.542
Zinc	7440-66-6	23,000	110,000	930	22.8			0.843	30.2			0.787	24.5			0.767	20.3			0.797	17.6			0.858	20.9			0.882	21.1			0.813
EPH (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Total EPH (Category 2)		NS	NS	NS	62.8		11.1	22.2	97.5		10.8	21.6	38.1		10.8	21.7	10.9	U	10.9	21.9	10.9	U	10.9	21.7	11.4	U	11.4	22.8	65.8		10.9	21.9
PCBs (mg/kg)					Result	Qualifier	MDL	RL																	Result	Qualifier	MDL	RL				
Aroclor-1016	12674-11-2	0	1	0	0.000654	U	0.000654	0.0367	NA				NA				NA				NA				0.000670	U	0.00067	0.0376	NA			
Aroclor-1221	11104-28-2	0	1	0.2	0.001130	U	0.00113	0.0367	NA				NA				NA				NA				0.001160	U	0.00116	0.0376	NA			
Aroclor-1232	11141-16-5	0.2	1	0.2	0.000864	U	0.000864	0.0367	NA				NA				NA				NA				0.000886	U	0.000886	0.0376	NA			
Aroclor-1242	53469-21-9	0	1	0	0.001250	U	0.00125	0.0367	NA				NA				NA				NA				0.001280	U	0.00128	0.0376	NA			
Aroclor-1248	12672-29-6	0	1	0.2	0.000861	U	0.000861	0.0367	NA				NA				NA				NA				0.000883	U	0.000883	0.0376	NA			
Aroclor-1254	11097-69-1	0	1	0.2	0.001310	U	0.00131	0.0367	NA				NA				NA				NA				0.001340	U	0.00134	0.0376	NA			
Aroclor-1260	11096-82-5	0	1	0.2	0.000968	U	0.000968	0.0367	NA				NA				NA				NA				0.000992	U	0.000992	0.0376	NA			
Aroclor-1262	37324-23-5	0.2	1.0	0.2	0.001420	U	0.00142	0.0367	NA				NA				NA				NA				0.001450	U	0.00145	0.0376	NA			
Aroclor-1268	11100-14-4	0	1	0.2	0.000742	U	0.000742	0.0367	NA				NA				NA				NA				0.000761	U	0.000761	0.0376	NA			
Total PCBs	1336-36-3	0	1	0	0.000654	U	0.000654	0.0367	NA				NA				NA				NA				0.000670	U	0.00067	0.0376	NA			
Pesticides (mg/kg)					Result	Qualifier	MDL	RL																	Result	Qualifier	MDL	RL				
4,4'-DDD	72-54-8	3	13	4	0.000875	U	0.000875	0.0015	NA				NA				NA				NA				0.000897	U	0.000897	0.0015	NA			
4,4'-DDE	72-55-9	2	9	18	0.001020	U	0.00102	0.0015	NA				NA				NA				NA				0.001050	U	0.00105	0.0015	NA			
4,4'-DDT	50-29-3	2.0	8	11	0.000694	U	0.000694	0.0015	NA				NA				NA				NA				0.000711	U	0.000711	0.0015	NA			
4,4'-DDT [2C]	50-29-3	2	8	11					NA				NA				NA				NA								NA			
Aldrin	309-00-2	0	0	0.2	0.000898	U	0.000898	0.0015	NA				NA				NA				NA				0.000920	U	0.00092	0.0015	NA			
alpha-BHC	319-84-6	0	1	0.002	0.000559	U	0.000559	0.0015	NA				NA				NA				NA				0.000574	U	0.000574	0.0015	NA			
beta-BHC	319-85-7	0	2	0.002	0.001420	U	0.00142	0.0015	NA				NA				NA				NA				0.001460	U	0.00146	0.0015	NA			
Chlordane	57-74-9	0.2	1.0	0.05	0.000971	U	0.000971	0.0015	NA				NA				NA				NA				0.000995	U	0.000995	0.0015	NA			
delta-BHC	319-86-8	NA	NA	NA	0.001120	U	0.00112	0.0015	NA				NA				NA				NA				0.001150	U	0.00115	0.0015	NA			
Dieldrin	60-57-1	0	0	0	0.000779	U	0.000779	0.0015	NA				NA				NA				NA				0.000798	U	0.000798	0.0015	NA			
Endosulfan I	959-98-8	470	6,800	4	0.001000	U	0.001	0.0015	NA				NA				NA				NA				0.001030	U	0.00103	0.0015	NA			
Endosulfan II	33213-65-9	470	6,800	4	0.000786	U	0.000786	0.0015	NA				NA				NA				NA				0.000806	U	0.000806	0.0015	NA			
Endosulfan sulfate	1031-07-8	470.0	6,800	2	0.000786	U	0.000786	0.0015	NA				NA				NA				NA				0.000806	U	0.000806	0.0015	NA			
Endrin	72-20-8	23	340	1	0.000742	U	0.000742	0.0015	NA				NA				NA				NA				0.000761	U	0.000761	0.0015	NA			
Endrin aldehyde	7421-93-4	NA	NA	NA	0.000617	U	0.000617	0.0015	NA				NA				NA				NA				0.000633	U	0.000633	0.0015	NA			
Endrin ketone	53494-70-5	NA	NA	NA	0.000882	U	0.000882	0.0015	NA				NA				NA				NA				0.000904	U	0.000904	0.0015	NA			
gamma-BHC (Lindane)	58-89-9	0	2	0.002	0.000661	U	0.000661	0.0015	NA				NA				NA				NA				0.000677	U	0.000677	0.0015	NA			
Heptachlor	76-44-8	0.1	0.7	0.5	0.000845	U	0.000845	0.0015	NA				NA				NA				NA				0.000867	U	0.000867	0.0015	NA			
Heptachlor Epoxide	1024-57-3	0	0	0.01	0.000904	U	0.000904	0.0015	NA				NA				NA				NA				0.000927	U	0.000927	0.0015	NA			
Methoxychlor	72-43-5	390	5,700	160	0.000920	U	0.00092	0.0015	NA				NA				NA				NA				0.000943	U	0.000943	0.0015	NA			
Toxaphene	8001-35-2	1	3	0	0.022500	U	0.0225	0.073	NA				NA				NA				NA				0.023000	U	0.023	0.075	NA			

Table 3. Soil Analytical Data Summary
TAL Metals, EPH, PCBs, Pesticides

PEAK ENVIRONMENTAL LLC

Area of Concern / Sample Identifier / Laboratory Identifier / Sample Date	CAS Number	NJDEP Residential Direct Contact SRS[1]	NJDEP Nonresidential Direct Contact SRS[2]	NJDEP Default Impact to Ground Water SSL[3]	8100452-08 STP-1B 10/10/2018				8100452-09 STP-2B 10/10/2018				8100452-10 STP-3B 10/10/2018				8100452-11 STP-4A 10/10/2018				8100452-12 STP-4B 10/10/2018				8100452-13 STP-5 10/10/2018				8100452-14 STP-7 10/10/2018			
TAL Metals (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Aluminum	7429-90-5	78,000	NS	6,000	5040			2.68	5700			2.94	4900			2.59	**6100**			2.83	5610			2.70	**6860**			2.87	4650			2.54
Antimony	7440-36-0	31	450	6	1.3	U		1.34	1.5	U		1.47	1.3	U		1.29	1.4	U		1.41	1.4	U		1.35	1.4	U		1.44	1.3	U		1.27
Arsenic	7440-38-2	19.0	19	19	1.3	U		1.34	1.5	U		1.47	1.65			1.29	1.4	U		1.41	1.4	U		1.35	3.01			1.44	1.49			1.27
Barium	7440-39-3	16,000	59,000	2,100	20.2			0.537	23.4			0.587	19.4			0.518	23.3			0.566	24.9			0.540	23.0			0.574	18.5			0.508
Beryllium	7440-41-7	16	140	0.7	0.191			0.0268	0.223			0.0294	0.184			0.0259	0.215			0.0283	0.211			0.0270	0.256			0.0287	0.178			0.0254
Cadmium	7440-43-9	78	78	2	0.268	U		0.268	0.294	U		0.294	0.259	U		0.259	0.283	U		0.283	0.270	U		0.270	0.287	U		0.287	0.254	U		0.254
Calcium	7440-70-2	NS	NS	NS	453			26.8	473			29.4	463			25.9	634			28.3	899			27.0	310			28.7	294			25.4
Chromium	7440-47-3	NS	NS	NS	7.08			0.268	7.63			0.294	6.68			0.259	8.26			0.283	7.75			0.270	8.30			0.287	6.14			0.254
Cobalt	7440-48-4	1,600	590	90	3.03			0.215	3.23			0.235	2.90			0.207	3.51			0.226	3.46			0.216	4.74			0.230	2.97			0.203
Copper	7440-50-8	3,100	45,000	11,000	7.22			0.268	8.57			0.294	7.66			0.259	9.17			0.283	8.07			0.270	9.68			0.287	6.73			0.254
Iron	7439-89-6	NS	NS	NS	9500			5.37	11100			5.87	9550			5.18	10900			5.66	10600			5.40	15100			5.74	9110			5.08
Lead	7439-92-1	400	800	90	4.88			1.34	6.05			1.47	6.01			1.29	10.6			1.41	8.26			1.35	5.25			1.44	4.31			1.27
Magnesium	7439-95-4	NS	NS	NS	966			53.7	1070			58.7	977			51.8	1110			56.6	1220			54.0	1150			57.4	910			50.8
Manganese	7439-96-5	11,000	5,900	65	**144**			0.268	**187**			0.294	**163**			0.259	**209**			0.283	**261**			0.270	**333**			0.287	**240**			0.254
Mercury	7439-97-6	23	65	0.1	0.0457	U		0.0457	0.0514	U		0.0514	0.0562			0.0478	0.0540	U		0.0540	0.0495	U		0.0495	0.0518	U		0.0518	0.0463	U		0.0463
Nickel	7440-02-0	1,600	23,000	48	5.18			0.134	5.76			0.147	5.18			0.129	6.25			0.141	6.18			0.135	7.29			0.144	5.05			0.127
Potassium	9/7/7440	NS	NS	NS	260			107	271			117	272			104	286			113	283			108	241			115	210			102
Selenium	7782-49-2	390	5,700	11	1.3	U		1.34	1.5	U		1.47	1.3	U		1.29	1.4	U		1.41	1.4	U		1.35	1.4	U		1.44	1.3	U		1.27
Silver	7440-22-4	390	5,700	1	0.537	U		0.537	0.587	U		0.587	0.518	U		0.518	0.566	U		0.566	0.540	U		0.540	0.574	U		0.574	0.508	U		0.508
Sodium	7440-23-5	NS	NS	NS	72.2			53.7	74.3			58.7	74.0			51.8	85.2			56.6	82.6			54.0	57.400	U		57.4	52.0			50.8
Thallium	7440-28-0	withdrawn	withdrawn	3	1.3	U		1.34	1.5	U		1.47	1.3	U		1.29	1.4	U		1.41	1.4	U		1.35	1.4	U		1.44	1.3	U		1.27
Vanadium	7440-62-2	78	1,100	NS	13.0			0.537	13.9			0.587	12.7			0.518	15.4			0.566	14.7			0.540	17.3			0.574	11.8			0.508
Zinc	7440-66-6	23,000	110,000	930	23.5			0.805	38.2			0.881	21.0			0.777	20.4			0.849	23.2			0.810	39.9			0.861	24.1			0.761
EPH (mg/kg)					Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL	Result	Qualifier	MDL	RL
Total EPH (Category 2)		NS	NS	NS	11.2	U	11.2	22.3	10.9	U	10.9	21.8	10.9	U	10.9	21.9	11	U	11	22.1	10.9	U	10.9	21.8	10.8	U	10.8	21.6	10.8	U	10.8	21.5
PCBs (mg/kg)																					Result	Qualifier	MDL	RL					Result	Qualifier	MDL	RL
Aroclor-1016	12674-11-2	0	1	0	NA				NA				NA				NA				0.000641	U	0.000641	0.036	NA				0.000633	U	0.000633	0.0355
Aroclor-1221	11104-28-2	0	1	0.2	NA				NA				NA				NA				0.001110	U	0.00111	0.036	NA				0.001090	U	0.00109	0.0355
Aroclor-1232	11141-16-5	0.2	1	0.2	NA				NA				NA				NA				0.000847	U	0.000847	0.036	NA				0.000836	U	0.000836	0.0355
Aroclor-1242	53469-21-9	0	1	0	NA				NA				NA				NA				0.001220	U	0.00122	0.036	NA				0.001210	U	0.00121	0.0355
Aroclor-1248	12672-29-6	0	1	0.2	NA				NA				NA				NA				0.000844	U	0.000844	0.036	NA				0.000833	U	0.000833	0.0355
Aroclor-1254	11097-69-1	0	1	0.2	NA				NA				NA				NA				0.001280	U	0.00128	0.036	NA				0.001270	U	0.00127	0.0355
Aroclor-1260	11096-82-5	0	1	0.2	NA				NA				NA				NA				0.000949	U	0.000949	0.036	NA				0.000936	U	0.000936	0.0355
Aroclor-1262	37324-23-5	0.2	1.0	0.2	NA				NA				NA				NA				0.001390	U	0.00139	0.036	NA				0.001370	U	0.00137	0.0355
Aroclor-1268	11100-14-4	0	1	0.2	NA				NA				NA				NA				0.000727	U	0.000727	0.036	NA				0.000718	U	0.000718	0.0355
Total PCBs	1336-36-3	0	1	0	NA				NA				NA				NA				0.000641	U	0.000641	0.036	NA				0.000633	U	0.000633	0.0355
Pesticides (mg/kg)																					Result	Qualifier	MDL	RL					Result	Qualifier	MDL	RL
4,4'-DDD	72-54-8	3	13	4	NA				NA				NA				NA				0.000858	U	0.000858	0.0014	NA				0.000847	U	0.000847	0.0014
4,4'-DDE	72-55-9	2	9	18	NA				NA				NA				NA				0.001000	U	0.001	0.0014	NA				0.000990	U	0.00099	0.0014
4,4'-DDT	50-29-3	2.0	8	11	NA				NA				NA				NA				0.000681	U	0.000681	0.0014	NA							
4,4'-DDT [2C]	50-29-3	2	8	11	NA				NA				NA				NA								NA				0.00928		0.000586	0.0014
Aldrin	309-00-2	0	0	0.2	NA				NA				NA				NA				0.000880	U	0.00088	0.0014	NA				0.000868	U	0.000868	0.0014
alpha-BHC	319-84-6	0	1	0.002	NA				NA				NA				NA				0.000549	U	0.000549	0.0014	NA				0.000541	U	0.000541	0.0014
beta-BHC	319-85-7	0	2	0.002	NA				NA				NA				NA				0.001400	U	0.0014	0.0014	NA				0.001380	U	0.00138	0.0014
Chlordane	57-74-9	0.2	1.0	0.05	NA				NA				NA				NA				0.0103		0.000952	0.0014	NA				0.0136		0.000939	0.0014
delta-BHC	319-86-8	NA	NA	NA	NA				NA				NA				NA				0.001100	U	0.0011	0.0014	NA				0.001080	U	0.00108	0.0014
Dieldrin	60-57-1	0	0	0	NA				NA				NA				NA				0.000763	U	0.000763	0.0014	NA				0.000753	U	0.000753	0.0014
Endosulfan I	959-98-8	470	6,800	4	NA				NA				NA				NA				0.000981	U	0.000981	0.0014	NA				0.000968	U	0.000968	0.0014
Endosulfan II	33213-65-9	470	6,800	4	NA				NA				NA				NA				0.000771	U	0.000771	0.0014	NA				0.000761	U	0.000761	0.0014
Endosulfan sulfate	1031-07-8	470.0	6,800	2	NA				NA				NA				NA				0.000771	U	0.000771	0.0014	NA				0.000761	U	0.000761	0.0014
Endrin	72-20-8	23	340	1	NA				NA				NA				NA				0.000727	U	0.000727	0.0014	NA				0.000718	U	0.000718	0.0014
Endrin aldehyde	7421-93-4	NA	NA	NA	NA				NA				NA				NA				0.000605	U	0.000605	0.0014	NA				0.000597	U	0.000597	0.0014
Endrin ketone	53494-70-5	NA	NA	NA	NA				NA				NA				NA				0.000865	U	0.000865	0.0014	NA				0.000853	U	0.000853	0.0014
gamma-BHC (Lindane)	58-89-9	0	2	0.002	NA				NA				NA				NA				0.000648	U	0.000648	0.0014	NA				0.000639	U	0.000639	0.0014
Heptachlor	76-44-8	0.1	0.7	0.5	NA				NA				NA				NA				0.000829	U	0.000829	0.0014	NA				0.000818	U	0.000818	0.0014
Heptachlor Epoxide	1024-57-3	0	0	0.01	NA				NA				NA				NA				0.000887	U	0.000887	0.0014	NA				0.000875	U	0.000875	0.0014
Methoxychlor	72-43-5	390	5,700	160	NA				NA				NA				NA				0.000902	U	0.000902	0.0014	NA				0.000890	U	0.00089	0.0014
Toxaphene	8001-35-2	1	3	0	NA				NA				NA				NA				0.022000	U	0.022	0.072	NA				0.021700	U	0.0217	0.071

ATTACHMENT I

APL

AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

ANALYTICAL RESULTS

REDUCED DELIVERABLES FORMAT

APL Work Order Number: 8100452

Peak Environmental

Project: Ridgewood

Brian Wood
Laboratory Director

All Results meet the requirements of the National Environmental Laboratory Accreditation Conference and/or State specific certifications as applicable.

Report Date: Oct 17, 2018

1275 Bloomfield Ave., Bldg. 6, Fairfield, New Jersey 07004
(t) 973.227.0422 (f) 973.227.2813 (w) www.aquaprotechlabs.com

NELAC National Environmental Laboratory Accreditation Conference
NJDEP #07010 / NYDOH #11634 / PADEP #68-02903

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AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Sample Summary

Work Order: 8100452

Client: Peak Environmental

Project: Ridgewood

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NTP-1A	8100452-01	Soil	10/10/2018 00:00	10/10/2018 15:40
NTP-2A	8100452-02	Soil	10/10/2018 00:00	10/10/2018 15:40
NTP-2B	8100452-03	Soil	10/10/2018 00:00	10/10/2018 15:40
NTP-3B	8100452-04	Soil	10/10/2018 00:00	10/10/2018 15:40
NTP-4B	8100452-05	Soil	10/10/2018 12:35	10/10/2018 15:40
NTP-6	8100452-06	Soil	10/10/2018 12:50	10/10/2018 15:40
NTP-7	8100452-07	Soil	10/10/2018 13:00	10/10/2018 15:40
STP-1B	8100452-08	Soil	10/10/2018 13:15	10/10/2018 15:40
STP-2B	8100452-09	Soil	10/10/2018 13:30	10/10/2018 15:40
STP-3B	8100452-10	Soil	10/10/2018 13:40	10/10/2018 15:40
STP-4A	8100452-11	Soil	10/10/2018 00:00	10/10/2018 15:40
STP-4B	8100452-12	Soil	10/10/2018 00:00	10/10/2018 15:40
STP-5	8100452-13	Soil	10/10/2018 00:00	10/10/2018 15:40
STP-7	8100452-14	Soil	10/10/2018 00:00	10/10/2018 15:40

PN: 8100452

APL 8100452

AQUA PRO-TECH LABORATORIES

www.aquaprotechlabs.com

1275 BLOOMFIELD AVENUE • BUILDING 6
FAIRFIELD, NEW JERSEY 07004

TEL: 973.227.0422
FAX: 973.227.2813

CHAIN OF CUSTODY

CLIENT: Peak	SEND REPORT TO: Joe Romeo
ADDRESS: 26 Kunkel Blvd. East Brunswick	ADDRESS: joe@peak-environmental.com
PHONE: 732-326-1010	PHONE:
E-MAIL: joe@peak-environmental.com	FAX:
PROJECT NAME: Ridgewood	SEND INVOICE TO: Kristen Van Dine
PROJECT MGR: Joe Romeo	ADDRESS: kristen@peak-environmental.com
PROJECT or PO #: 1594	SAMPLED BY: BJS

TURN-AROUND TIME

- ☐ APL STANDARD 2 weeks
- ☒ RUSH (choose one below)
- ☒ 24 hr. date & time required
- ☐ 48 hr. date & time required
- ☐ 72 hr. date & time required
- ☐ 1 week

REPORT FORMAT

- ☐ RESULTS ONLY
- ☒ NJ DEP REDUCED
- ☐ NJ DEP FULL
- ☐ STATE FORMS/E2 REPORTING

ELECTRONIC FORMAT

- ☒ EMAIL DELIVERY
- ☐ HAZSITE EDD
- ☒ EXCEL

SRP#

PWSID#

CONTAMINATION LEVEL

☐ HIGH ☐ MEDIUM ☐ LOW

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type GRAB	Sample Type COMP	MATRIX	No. of Bottles	Preservative	Analysis Requested
8100452-01	NTP-1A	10/10/18		X		S	5		TCL/TAL+30, EPH, VOCs
-02	NTP-2A						5		EPH, TAL metals, PAHs, VOCs
-03	NTP-2B						1		EPH, TAL metals, PAHs
-04	NTP-3B						1		" " "
-05	NTP-4B		12:35				5		" " " VOCs
-06	NTP-6		12:50				5		TCL/TAL+30, EPH, VOCs
-07	NTP-7		13:00				5		EPH, TAL metals, PAHs, VOCs
-08	STP-1B		13:15				5		" " " "
-09	STP-2B		13:30				1		EPH, TAL metals, PAHs

RELINQUISHED BY (Print) Ben Sweeney	DATE 10/10/18	RECEIVED BY (Print)	
Signature	Time 14:50	Signature	
RELINQUISHED BY (Print)	DATE 10/10/18	RECEIVED BY (Print)	
Signature	Time 3:40	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	

COMMENTS/SPECIAL INSTRUCTIONS

Cooler Temp. upon receipt at lab 4.0

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

PN: 8100452

APL
AQUA PRO-TECH LABORATORIES
www.aquaprotechlabs.com

1275 BLOOMFIELD AVENUE • BUILDING 6
FAIRFIELD, NEW JERSEY 07004

TEL: 973.227.0422
FAX: 973.227.2813

CHAIN OF CUSTODY

PAGE 2 OF 2

CLIENT:	SEND REPORT TO:
ADDRESS:	ADDRESS:
See page 1	See page 1
PHONE:	PHONE:
E-MAIL:	FAX:
PROJECT NAME:	SEND INVOICE TO:
PROJECT MGR:	ADDRESS:
PROJECT or PO #:	SAMPLED BY:

TURN-AROUND TIME
- ☐ APL STANDARD 2 weeks
- ☒ RUSH (choose one below)
  - ☒ 24 hr. date & time required
  - ☐ 48 hr. date & time required
  - ☐ 72 hr. date & time required
  - ☐ 1 week

REPORT FORMAT
- ☐ RESULTS ONLY
- ☒ NJ DEP REDUCED
- ☐ NJ DEP FULL
- ☐ STATE FORMS/E2 REPORTING

PWSID#

ELECTRONIC FORMAT
- ☒ EMAIL DELIVERY
- ☐ HAZSITE EDD
- ☒ EXCEL

SRP#

CONTAMINATION LEVEL
☐ HIGH ☐ MEDIUM ☐ LOW

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type GRAB	Sample Type COMP	MATRIX	No. of Bottles	Preservative	Analysis Requested
8100452-10	STP-3B	10/10/18	13:40	X		S	1		EPH, TAL metals, PAHs
-11	STP-4A	↓		↓		↓	5		" " " , VOCs
-12	STP-4B						5		TCL/TAL+30, EPH, VOCs
-13	STP-5						1		EPH, TAL metals, PAHs
-14	STP-7	↓		↓		↓	5		TCL/TAL+30, EPH, VOCs

RELINQUISHED BY (Print) Benjamin Sweeney	DATE 10/10/18	RECEIVED BY (Print)	
Signature	Time 14:50	Signature	
RELINQUISHED BY (Print)	DATE 10/10/18	RECEIVED BY (Print)	
Signature	Time 3:40	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	

COMMENTS/SPECIAL INSTRUCTIONS

Cooler Temp. upon receipt at lab 4.0

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

Extractable Petroleum Hydrocarbons:

Gas Chromatography/Flame Ionization Detector

New Jersey Department of Environmental Protection Site Remediation Program Extractable Petroleum Hydrocarbons Methodology (Version 3.0).
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8015B or NJDEP Office of Quality Assurance Quantitation of Semi-Volatile Petroleum Products in Water, Soil and Sediment OQA-QAM-025, Revision 6.

Metals:

Inductively-Coupled Plasma Atomic Emission Spectrometry or Inductively-Coupled Plasma Mass Spectroscopy

Wastewater and Groundwater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 200.7, Method 200.8.
Soil Samples: USEPA Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 6010D.

Mercury:

Cold Vapor Atomic Absorption Spectrometry

Wastewater and Groundwater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 245.1.
Soil Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 7471B.

Volatile Organic Compounds:

Purge and Trap Gas Chromatography/Mass Spectroscopy

Drinking Water Samples: USEPA Methods for the Determination of Organic Compounds in Drinking Water, Method 524.2.
Wastewater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 624.1, Method 8260C.
Soil and Groundwater Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8260C.

Semi-Volatile Organic Compounds:

Gas Chromatography/Mass Spectroscopy

Wastewater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 625.1, Method 8270D.
Soil and Groundwater Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8270D.

Pesticides:

Gas Chromatography/Electron Capture Detector

Wastewater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 608.3, Method 8081B.
Soil and Groundwater Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8081B.

Polychlorinated Biphenyls (PCBs):

Gas Chromatography/Electron Capture Detector

Wastewater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 608.3, Method 8082A.
Soil and Groundwater Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8082A.

General Chemistry Methods:

Various general chemistry methods are taken from "Standard Methods for the Examination of Water and Wastewater, 19th Edition"*.*

Specific method citations can be found on the Analytical Results Summary page of this report listed under 'Method'.

** A complete list of APL's certified Methods are accessible on the Standards And Docs page of the Results Retrieval System

MDL:

Method Detection Limit. The minimum reportable concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The value is calculated from the analysis of seven replicates of a spike sample. On analytical reports this value is corrected for percent moisture and any concentration or dilution factors.

RL:

Reporting Limit. The Concentration of the lowest calibration standard that was included in the initial calibration of the instrument. On analytical reports this value is corrected for percent moisture and any concentration or dilution factors.

Concentration (Conc) / Result:

If the compound is detected, the measured concentration is reported. If this column is left blank, or contains a 'less than' (<) symbol, the compound was not detected.

Tentatively Identified Compound (TIC):

A TIC is a non-targeted compound, not included in the calibration, identified by a mass spectral library search.

Qualifiers:

- **U:** Indicates the compound was analyzed for but was not detected.
- **J:** Indicates an estimated value. All tentatively identified compounds (TICs) and results below the RL receive this qualifier.
- **B:** Indicates the analyte was found in the method blank as well as the sample.
- **N:** Used when reporting a specific tentatively identified compound.
- **E:** Indicates that the concentration of the compound exceeds the calibration range of the instrument. The results of a diluted analysis will also be reported. The results of the dilution should be used for those compounds exceeding the calibration range in the undiluted analysis.

DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name: Aqua Pro-Tech Laboratories

Client: Peak Environmental

Project Location: Ridgewood

Project Number: 8100452

Laboratory Sample ID(s): 01-14 **Sampling Date(s):** October 10, 2018

List DKQP Methods Used: 8260C; 8270D; 8082A; 8081B; 7471B; 6010D; NJDEP-EPH-CAT2; SW 846 9014; Gravimetric

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	☑ Yes ☐ No
IA	Were the method specified handling, preservation, and holding time requirements met?	☑ Yes ☐ No
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	☑ Yes ☐ No ☐ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (4±2° C)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	☐ Yes ☑ No
5	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? Were these reporting limits met?	☑ Yes ☐ No ☑ Yes ☐ No ☐ N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	☑ Yes ☐ No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No° (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for Data of Known Quality.°

QUALITY CONTROL
Conformance/Non-Conformance Summary

ANALYSIS: INORGANICS [6010D / 7471B / 9014]

Method 6010D:
The percent recoveries for several metals were outside of the QC limits for the matrix spike and matrix spike duplicate (low).
The blank spike met all QC criteria.

Methods 7471B / 9014:
All samples met the QC criteria.

ANALYSIS: EPH [NJDEP-EPH-CAT2]

All samples met the QC criteria.

ANALYSIS: PCBs [8082A]

All samples met the QC criteria.

ANALYSIS: PESTICIDES [8081B]

All samples met the QC criteria.

ANALYSIS: VOLATILES BY GC/MS [8260C]

The continuing calibrations (S8J1704-CCV1, S8J1706-CCV1) were outside of the QC limits for Carbon disulfide (low).

Batch B8J1111:
The percent recovery for Chlorodibromomethane was outside of the QC limits for the blank spike (low).

ANALYSIS: SEMI-VOLATILES BY GC/MS [8270D]

The percent recovery for Benzaldehyde was outside of the QC limits for the blank spike, matrix spike and matrix spike duplicate (low).
The percent recoveries for several other compounds were outside of the QC limits for the matrix spike and matrix spike duplicate (low). The blank spike met all QC criteria.

Reviewed By: _____ (SK) 10/18/2018
Brian Wood - Laboratory Director — Date

For any questions about your Quality Control, please call us at 973-227-0422.

Positive Results Only Summary

8100452-01 (Soil) Sample Name: **NTP-1A**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	62.8		11.1	22.2	mg/kg dry	1	10/11/18 12:51

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	3290		0.0603	2.81	mg/kg dry	1	10/11/18 14:32
Barium	18.6		0.00108	0.562	mg/kg dry	1	10/11/18 14:32
Beryllium	0.138		0.000101	0.0281	mg/kg dry	1	10/11/18 14:32
Calcium	938		0.319	28.1	mg/kg dry	1	10/11/18 14:32
Chromium	5.14		0.00101	0.281	mg/kg dry	1	10/11/18 14:32
Cobalt	2.31		0.00122	0.225	mg/kg dry	1	10/11/18 14:32
Copper	8.71		0.00121	0.281	mg/kg dry	1	10/11/18 14:32
Iron	7190		0.127	5.62	mg/kg dry	1	10/11/18 14:32
Lead	23.8		0.00586	1.40	mg/kg dry	1	10/11/18 14:32
Magnesium	763		0.818	56.2	mg/kg dry	1	10/11/18 14:32
Manganese	125		0.000695	0.281	mg/kg dry	1	10/11/18 14:32
Nickel	4.33		0.00193	0.140	mg/kg dry	1	10/11/18 14:32
Potassium	212		2.64	112	mg/kg dry	1	10/11/18 14:32
Sodium	107		0.154	56.2	mg/kg dry	1	10/11/18 14:32
Vanadium	9.94		0.00973	0.562	mg/kg dry	1	10/11/18 14:32
Zinc	22.8		0.00258	0.843	mg/kg dry	1	10/11/18 14:32

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Benzo(a)anthracene	0.0995	J	0.0149	0.148	mg/kg dry	1	10/11/18 14:10
Benzo(a)pyrene	0.0887	J	0.0258	0.148	mg/kg dry	1	10/11/18 14:10
Benzo(b)fluoranthene	0.107	J	0.0208	0.148	mg/kg dry	1	10/11/18 14:10
Benzo(g,h,i)perylene	0.0702	J	0.0120	0.148	mg/kg dry	1	10/11/18 14:10
Benzo(k)fluoranthene	0.0788	J	0.0170	0.148	mg/kg dry	1	10/11/18 14:10
Chrysene	0.0909	J	0.0101	0.148	mg/kg dry	1	10/11/18 14:10
Fluoranthene	0.167		0.0139	0.148	mg/kg dry	1	10/11/18 14:10
Indeno(1,2,3-cd)pyrene	0.0610	J	0.0159	0.148	mg/kg dry	1	10/11/18 14:10
Phenanthrene	0.126	J	0.0195	0.148	mg/kg dry	1	10/11/18 14:10
Pyrene	0.158		0.0109	0.148	mg/kg dry	1	10/11/18 14:10

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Tetrachloroethene	0.00329		0.000121	0.00122	mg/kg dry	1	10/10/18 18:59

8100452-02 (Soil) Sample Name: **NTP-2A**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	97.5		10.8	21.6	mg/kg dry	1	10/11/18 13:27

Positive Results Only Summary

8100452-02 (Soil) Sample Name: **NTP-2A**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	3800		0.0563	2.62	mg/kg dry	1	10/11/18 14:34
Barium	21.4		0.00101	0.525	mg/kg dry	1	10/11/18 14:34
Beryllium	0.160		0.0000946	0.0262	mg/kg dry	1	10/11/18 14:34
Calcium	1260		0.298	26.2	mg/kg dry	1	10/11/18 14:34
Chromium	6.19		0.000943	0.262	mg/kg dry	1	10/11/18 14:34
Cobalt	2.83		0.00114	0.210	mg/kg dry	1	10/11/18 14:34
Copper	10.4		0.00113	0.262	mg/kg dry	1	10/11/18 14:34
Iron	8240		0.119	5.25	mg/kg dry	1	10/11/18 14:34
Lead	26.2		0.00548	1.31	mg/kg dry	1	10/11/18 14:34
Magnesium	952		0.764	52.5	mg/kg dry	1	10/11/18 14:34
Manganese	144		0.000649	0.262	mg/kg dry	1	10/11/18 14:34
Nickel	5.14		0.00180	0.131	mg/kg dry	1	10/11/18 14:34
Potassium	251		2.47	105	mg/kg dry	1	10/11/18 14:34
Sodium	116		0.144	52.5	mg/kg dry	1	10/11/18 14:34
Vanadium	11.2		0.00909	0.525	mg/kg dry	1	10/11/18 14:34
Zinc	30.2		0.00241	0.787	mg/kg dry	1	10/11/18 14:34

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Benzo(a)anthracene	0.0754	J	0.0145	0.144	mg/kg dry	1	10/11/18 14:38
Benzo(a)pyrene	0.0733	J	0.0251	0.144	mg/kg dry	1	10/11/18 14:38
Benzo(g,h,i)perylene	0.0911	J	0.0117	0.144	mg/kg dry	1	10/11/18 14:38
Benzo(k)fluoranthene	0.106	J	0.0165	0.144	mg/kg dry	1	10/11/18 14:38
Chrysene	0.0911	J	0.00985	0.144	mg/kg dry	1	10/11/18 14:38
Fluoranthene	0.120	J	0.0135	0.144	mg/kg dry	1	10/11/18 14:38
Phenanthrene	0.0544	J	0.0189	0.144	mg/kg dry	1	10/11/18 14:38
Pyrene	0.130	J	0.0106	0.144	mg/kg dry	1	10/11/18 14:38

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Tetrachloroethene	0.00240		0.0000870	0.000879	mg/kg dry	1	10/10/18 19:28

8100452-03 (Soil) Sample Name: **NTP-2B**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	38.1		10.8	21.7	mg/kg dry	1	10/11/18 14:02

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	3620		0.0549	2.56	mg/kg dry	1	10/11/18 14:36
Barium	17.9		0.000986	0.511	mg/kg dry	1	10/11/18 14:36
Beryllium	0.184		0.0000922	0.0256	mg/kg dry	1	10/11/18 14:36

Positive Results Only Summary

8100452-03 (Soil) Sample Name: **NTP-2B**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Calcium	1100		0.290	25.6	mg/kg dry	1	10/11/18 14:36
Chromium	5.98		0.000919	0.256	mg/kg dry	1	10/11/18 14:36
Cobalt	2.49		0.00111	0.205	mg/kg dry	1	10/11/18 14:36
Copper	9.46		0.00110	0.256	mg/kg dry	1	10/11/18 14:36
Iron	8490		0.116	5.11	mg/kg dry	1	10/11/18 14:36
Lead	19.0		0.00534	1.28	mg/kg dry	1	10/11/18 14:36
Magnesium	885		0.744	51.1	mg/kg dry	1	10/11/18 14:36
Manganese	139		0.000633	0.256	mg/kg dry	1	10/11/18 14:36
Nickel	5.09		0.00176	0.128	mg/kg dry	1	10/11/18 14:36
Potassium	233		2.40	102	mg/kg dry	1	10/11/18 14:36
Sodium	93.8		0.140	51.1	mg/kg dry	1	10/11/18 14:36
Vanadium	12.0		0.00886	0.511	mg/kg dry	1	10/11/18 14:36
Zinc	24.5		0.00235	0.767	mg/kg dry	1	10/11/18 14:36

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Benzo(a)anthracene	0.0876	J	0.0145	0.144	mg/kg dry	1	10/11/18 15:07
Benzo(a)pyrene	0.0814	J	0.0251	0.144	mg/kg dry	1	10/11/18 15:07
Benzo(b)fluoranthene	0.0987	J	0.0203	0.144	mg/kg dry	1	10/11/18 15:07
Benzo(g,h,i)perylene	0.0663	J	0.0117	0.144	mg/kg dry	1	10/11/18 15:07
Benzo(k)fluoranthene	0.0460	J	0.0166	0.144	mg/kg dry	1	10/11/18 15:07
Chrysene	0.0730	J	0.00989	0.144	mg/kg dry	1	10/11/18 15:07
Fluoranthene	0.153		0.0135	0.144	mg/kg dry	1	10/11/18 15:07
Phenanthrene	0.114	J	0.0190	0.144	mg/kg dry	1	10/11/18 15:07
Pyrene	0.137	J	0.0106	0.144	mg/kg dry	1	10/11/18 15:07

8100452-04 (Soil) Sample Name: **NTP-3B**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	4300		0.0571	2.66	mg/kg dry	1	10/11/18 14:38
Barium	24.3		0.00102	0.532	mg/kg dry	1	10/11/18 14:38
Beryllium	0.181		0.0000959	0.0266	mg/kg dry	1	10/11/18 14:38
Calcium	619		0.302	26.6	mg/kg dry	1	10/11/18 14:38
Chromium	7.12		0.000956	0.266	mg/kg dry	1	10/11/18 14:38
Cobalt	3.03		0.00116	0.213	mg/kg dry	1	10/11/18 14:38
Copper	7.89		0.00115	0.266	mg/kg dry	1	10/11/18 14:38
Iron	9220		0.120	5.32	mg/kg dry	1	10/11/18 14:38
Lead	6.72		0.00555	1.33	mg/kg dry	1	10/11/18 14:38
Magnesium	946		0.774	53.2	mg/kg dry	1	10/11/18 14:38
Manganese	165		0.000658	0.266	mg/kg dry	1	10/11/18 14:38
Nickel	5.13		0.00183	0.133	mg/kg dry	1	10/11/18 14:38

Positive Results Only Summary

8100452-04 (Soil) Sample Name: **NTP-3B**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Potassium	252		2.50	106	mg/kg dry	1	10/11/18 14:38
Sodium	136		0.146	53.2	mg/kg dry	1	10/11/18 14:38
Vanadium	13.4		0.00921	0.532	mg/kg dry	1	10/11/18 14:38
Zinc	20.3		0.00245	0.797	mg/kg dry	1	10/11/18 14:38

8100452-05 (Soil) Sample Name: **NTP-4B**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	5500		0.0614	2.86	mg/kg dry	1	10/11/18 14:40
Barium	31.8		0.00110	0.572	mg/kg dry	1	10/11/18 14:40
Beryllium	0.203		0.000103	0.0286	mg/kg dry	1	10/11/18 14:40
Calcium	933		0.325	28.6	mg/kg dry	1	10/11/18 14:40
Chromium	11.2		0.00103	0.286	mg/kg dry	1	10/11/18 14:40
Cobalt	4.83		0.00125	0.229	mg/kg dry	1	10/11/18 14:40
Copper	9.21		0.00124	0.286	mg/kg dry	1	10/11/18 14:40
Iron	12100		0.129	5.72	mg/kg dry	1	10/11/18 14:40
Lead	5.21		0.00597	1.43	mg/kg dry	1	10/11/18 14:40
Magnesium	1750		0.833	57.2	mg/kg dry	1	10/11/18 14:40
Manganese	229		0.000708	0.286	mg/kg dry	1	10/11/18 14:40
Nickel	7.75		0.00197	0.143	mg/kg dry	1	10/11/18 14:40
Potassium	261		2.69	114	mg/kg dry	1	10/11/18 14:40
Sodium	335		0.157	57.2	mg/kg dry	1	10/11/18 14:40
Vanadium	18.9		0.00991	0.572	mg/kg dry	1	10/11/18 14:40
Zinc	17.6		0.00263	0.858	mg/kg dry	1	10/11/18 14:40

8100452-06 (Soil) Sample Name: **NTP-6**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	6670		0.0631	2.94	mg/kg dry	1	10/11/18 14:42
Arsenic	1.71		0.0141	1.47	mg/kg dry	1	10/11/18 14:42
Barium	29.1		0.00113	0.588	mg/kg dry	1	10/11/18 14:42
Beryllium	0.282		0.000106	0.0294	mg/kg dry	1	10/11/18 14:42
Calcium	1140		0.334	29.4	mg/kg dry	1	10/11/18 14:42
Chromium	9.79		0.00106	0.294	mg/kg dry	1	10/11/18 14:42
Cobalt	3.59		0.00128	0.235	mg/kg dry	1	10/11/18 14:42
Copper	10.1		0.00127	0.294	mg/kg dry	1	10/11/18 14:42
Iron	12300		0.133	5.88	mg/kg dry	1	10/11/18 14:42
Lead	7.82		0.00614	1.47	mg/kg dry	1	10/11/18 14:42
Magnesium	1290		0.856	58.8	mg/kg dry	1	10/11/18 14:42
Manganese	176		0.000728	0.294	mg/kg dry	1	10/11/18 14:42

Positive Results Only Summary

8100452-06 (Soil) Sample Name: **NTP-6**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Nickel	6.47		0.00202	0.147	mg/kg dry	1	10/11/18 14:42
Potassium	361		2.76	118	mg/kg dry	1	10/11/18 14:42
Sodium	132		0.161	58.8	mg/kg dry	1	10/11/18 14:42
Vanadium	17.4		0.0102	0.588	mg/kg dry	1	10/11/18 14:42
Zinc	20.9		0.00270	0.882	mg/kg dry	1	10/11/18 14:42

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Dimethylphthalate	0.0721	J	0.00942	0.152	mg/kg dry	1	10/11/18 16:32

8100452-07 (Soil) Sample Name: **NTP-7**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	65.8		10.9	21.9	mg/kg dry	1	10/11/18 16:35

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	4450		0.0582	2.71	mg/kg dry	1	10/11/18 14:44
Barium	21.4		0.00104	0.542	mg/kg dry	1	10/11/18 14:44
Beryllium	0.160		0.0000978	0.0271	mg/kg dry	1	10/11/18 14:44
Calcium	1080		0.308	27.1	mg/kg dry	1	10/11/18 14:44
Chromium	6.67		0.000974	0.271	mg/kg dry	1	10/11/18 14:44
Cobalt	3.01		0.00118	0.217	mg/kg dry	1	10/11/18 14:44
Copper	8.67		0.00117	0.271	mg/kg dry	1	10/11/18 14:44
Iron	8450		0.122	5.42	mg/kg dry	1	10/11/18 14:44
Lead	11.3		0.00566	1.35	mg/kg dry	1	10/11/18 14:44
Magnesium	1090		0.789	54.2	mg/kg dry	1	10/11/18 14:44
Manganese	145		0.000671	0.271	mg/kg dry	1	10/11/18 14:44
Nickel	5.23		0.00186	0.135	mg/kg dry	1	10/11/18 14:44
Potassium	230		2.55	108	mg/kg dry	1	10/11/18 14:44
Sodium	160		0.148	54.2	mg/kg dry	1	10/11/18 14:44
Vanadium	12.8		0.00939	0.542	mg/kg dry	1	10/11/18 14:44
Zinc	21.1		0.00249	0.813	mg/kg dry	1	10/11/18 14:44

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Benzo(a)anthracene	0.133	J	0.0147	0.146	mg/kg dry	1	10/11/18 17:01
Benzo(a)pyrene	0.105	J	0.0254	0.146	mg/kg dry	1	10/11/18 17:01
Benzo(b)fluoranthene	0.169		0.0205	0.146	mg/kg dry	1	10/11/18 17:01
Benzo(g,h,i)perylene	0.124	J	0.0118	0.146	mg/kg dry	1	10/11/18 17:01
Benzo(k)fluoranthene	0.106	J	0.0167	0.146	mg/kg dry	1	10/11/18 17:01
Chrysene	0.134	J	0.00998	0.146	mg/kg dry	1	10/11/18 17:01

Positive Results Only Summary

8100452-07 (Soil) Sample Name: **NTP-7**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Fluoranthene	0.193		0.0137	0.146	mg/kg dry	1	10/11/18 17:01
Phenanthrene	0.0964	J	0.0192	0.146	mg/kg dry	1	10/11/18 17:01
Pyrene	0.184		0.0107	0.146	mg/kg dry	1	10/11/18 17:01

8100452-08 (Soil) Sample Name: **STP-1B**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	5040		0.0576	2.68	mg/kg dry	1	10/11/18 14:46
Barium	20.2		0.00103	0.537	mg/kg dry	1	10/11/18 14:46
Beryllium	0.191		0.0000968	0.0268	mg/kg dry	1	10/11/18 14:46
Calcium	453		0.305	26.8	mg/kg dry	1	10/11/18 14:46
Chromium	7.08		0.000965	0.268	mg/kg dry	1	10/11/18 14:46
Cobalt	3.03		0.00117	0.215	mg/kg dry	1	10/11/18 14:46
Copper	7.22		0.00116	0.268	mg/kg dry	1	10/11/18 14:46
Iron	9500		0.121	5.37	mg/kg dry	1	10/11/18 14:46
Lead	4.88		0.00560	1.34	mg/kg dry	1	10/11/18 14:46
Magnesium	966		0.781	53.7	mg/kg dry	1	10/11/18 14:46
Manganese	144		0.000664	0.268	mg/kg dry	1	10/11/18 14:46
Nickel	5.18		0.00185	0.134	mg/kg dry	1	10/11/18 14:46
Potassium	260		2.52	107	mg/kg dry	1	10/11/18 14:46
Sodium	72.2		0.147	53.7	mg/kg dry	1	10/11/18 14:46
Vanadium	13.0		0.00929	0.537	mg/kg dry	1	10/11/18 14:46
Zinc	23.5		0.00247	0.805	mg/kg dry	1	10/11/18 14:46

8100452-09 (Soil) Sample Name: **STP-2B**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	5700		0.0631	2.94	mg/kg dry	1	10/11/18 14:48
Barium	23.4		0.00113	0.587	mg/kg dry	1	10/11/18 14:48
Beryllium	0.223		0.000106	0.0294	mg/kg dry	1	10/11/18 14:48
Calcium	473		0.334	29.4	mg/kg dry	1	10/11/18 14:48
Chromium	7.63		0.00106	0.294	mg/kg dry	1	10/11/18 14:48
Cobalt	3.23		0.00128	0.235	mg/kg dry	1	10/11/18 14:48
Copper	8.57		0.00127	0.294	mg/kg dry	1	10/11/18 14:48
Iron	11100		0.133	5.87	mg/kg dry	1	10/11/18 14:48
Lead	6.05		0.00613	1.47	mg/kg dry	1	10/11/18 14:48
Magnesium	1070		0.855	58.7	mg/kg dry	1	10/11/18 14:48
Manganese	187		0.000727	0.294	mg/kg dry	1	10/11/18 14:48
Nickel	5.76		0.00202	0.147	mg/kg dry	1	10/11/18 14:48
Potassium	271		2.76	117	mg/kg dry	1	10/11/18 14:48

Positive Results Only Summary

8100452-09 (Soil) Sample Name: **STP-2B**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sodium	74.3		0.161	58.7	mg/kg dry	1	10/11/18 14:48
Vanadium	13.9		0.0102	0.587	mg/kg dry	1	10/11/18 14:48
Zinc	38.2		0.00270	0.881	mg/kg dry	1	10/11/18 14:48

8100452-10 (Soil) Sample Name: **STP-3B**

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	0.0562		0.0235	0.0478	mg/kg dry	1	10/11/18 12:53

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	4900		0.0556	2.59	mg/kg dry	1	10/11/18 14:50
Arsenic	1.65		0.0124	1.29	mg/kg dry	1	10/11/18 14:50
Barium	19.4		0.000998	0.518	mg/kg dry	1	10/11/18 14:50
Beryllium	0.184		0.0000934	0.0259	mg/kg dry	1	10/11/18 14:50
Calcium	463		0.294	25.9	mg/kg dry	1	10/11/18 14:50
Chromium	6.68		0.000931	0.259	mg/kg dry	1	10/11/18 14:50
Cobalt	2.90		0.00113	0.207	mg/kg dry	1	10/11/18 14:50
Copper	7.66		0.00112	0.259	mg/kg dry	1	10/11/18 14:50
Iron	9550		0.117	5.18	mg/kg dry	1	10/11/18 14:50
Lead	6.01		0.00541	1.29	mg/kg dry	1	10/11/18 14:50
Magnesium	977		0.754	51.8	mg/kg dry	1	10/11/18 14:50
Manganese	163		0.000641	0.259	mg/kg dry	1	10/11/18 14:50
Nickel	5.18		0.00178	0.129	mg/kg dry	1	10/11/18 14:50
Potassium	272		2.43	104	mg/kg dry	1	10/11/18 14:50
Sodium	74.0		0.142	51.8	mg/kg dry	1	10/11/18 14:50
Vanadium	12.7		0.00897	0.518	mg/kg dry	1	10/11/18 14:50
Zinc	21.0		0.00238	0.777	mg/kg dry	1	10/11/18 14:50

8100452-11 (Soil) Sample Name: **STP-4A**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	6100		0.0608	2.83	mg/kg dry	1	10/11/18 15:31
Barium	23.3		0.00109	0.566	mg/kg dry	1	10/11/18 15:31
Beryllium	0.215		0.000102	0.0283	mg/kg dry	1	10/11/18 15:31
Calcium	634		0.321	28.3	mg/kg dry	1	10/11/18 15:31
Chromium	8.26		0.00102	0.283	mg/kg dry	1	10/11/18 15:31
Cobalt	3.51		0.00123	0.226	mg/kg dry	1	10/11/18 15:31
Copper	9.17		0.00122	0.283	mg/kg dry	1	10/11/18 15:31
Iron	10900		0.128	5.66	mg/kg dry	1	10/11/18 15:31

Positive Results Only Summary

8100452-11 (Soil) Sample Name: **STP-4A**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Lead	10.6		0.00591	1.41	mg/kg dry	1	10/11/18 15:31
Magnesium	1110		0.824	56.6	mg/kg dry	1	10/11/18 15:31
Manganese	209		0.000701	0.283	mg/kg dry	1	10/11/18 15:31
Nickel	6.25		0.00195	0.141	mg/kg dry	1	10/11/18 15:31
Potassium	286		2.66	113	mg/kg dry	1	10/11/18 15:31
Sodium	85.2		0.155	56.6	mg/kg dry	1	10/11/18 15:31
Vanadium	15.4		0.00980	0.566	mg/kg dry	1	10/11/18 15:31
Zinc	20.4		0.00260	0.849	mg/kg dry	1	10/11/18 15:31

8100452-12 (Soil) Sample Name: **STP-4B**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	5610		0.0580	2.70	mg/kg dry	1	10/11/18 15:33
Barium	24.9		0.00104	0.540	mg/kg dry	1	10/11/18 15:33
Beryllium	0.211		0.0000974	0.0270	mg/kg dry	1	10/11/18 15:33
Calcium	899		0.307	27.0	mg/kg dry	1	10/11/18 15:33
Chromium	7.75		0.000971	0.270	mg/kg dry	1	10/11/18 15:33
Cobalt	3.46		0.00118	0.216	mg/kg dry	1	10/11/18 15:33
Copper	8.07		0.00117	0.270	mg/kg dry	1	10/11/18 15:33
Iron	10600		0.122	5.40	mg/kg dry	1	10/11/18 15:33
Lead	8.26		0.00564	1.35	mg/kg dry	1	10/11/18 15:33
Magnesium	1220		0.786	54.0	mg/kg dry	1	10/11/18 15:33
Manganese	261		0.000668	0.270	mg/kg dry	1	10/11/18 15:33
Nickel	6.18		0.00186	0.135	mg/kg dry	1	10/11/18 15:33
Potassium	283		2.54	108	mg/kg dry	1	10/11/18 15:33
Sodium	82.6		0.148	54.0	mg/kg dry	1	10/11/18 15:33
Vanadium	14.7		0.00935	0.540	mg/kg dry	1	10/11/18 15:33
Zinc	23.2		0.00248	0.810	mg/kg dry	1	10/11/18 15:33

SW 846 8081B - Pesticides

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Chlordane	0.0103		0.000952	0.00142	mg/kg dry	1	10/11/18 16:51

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Dimethylphthalate	0.0632	J	0.00901	0.145	mg/kg dry	1	10/11/18 15:57

8100452-13 (Soil) Sample Name: **STP-5**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed

Positive Results Only Summary

8100452-13 (Soil) Sample Name: **STP-5**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	6860		0.0617	2.87	mg/kg dry	1	10/11/18 15:37
Arsenic	3.01		0.0138	1.44	mg/kg dry	1	10/11/18 15:37
Barium	23.0		0.00111	0.574	mg/kg dry	1	10/11/18 15:37
Beryllium	0.256		0.000104	0.0287	mg/kg dry	1	10/11/18 15:37
Calcium	310		0.326	28.7	mg/kg dry	1	10/11/18 15:37
Chromium	8.30		0.00103	0.287	mg/kg dry	1	10/11/18 15:37
Cobalt	4.74		0.00125	0.230	mg/kg dry	1	10/11/18 15:37
Copper	9.68		0.00124	0.287	mg/kg dry	1	10/11/18 15:37
Iron	15100		0.130	5.74	mg/kg dry	1	10/11/18 15:37
Lead	5.25		0.00599	1.44	mg/kg dry	1	10/11/18 15:37
Magnesium	1150		0.836	57.4	mg/kg dry	1	10/11/18 15:37
Manganese	333		0.000711	0.287	mg/kg dry	1	10/11/18 15:37
Nickel	7.29		0.00198	0.144	mg/kg dry	1	10/11/18 15:37
Potassium	241		2.70	115	mg/kg dry	1	10/11/18 15:37
Vanadium	17.3		0.00995	0.574	mg/kg dry	1	10/11/18 15:37
Zinc	39.9		0.00264	0.861	mg/kg dry	1	10/11/18 15:37

8100452-14 (Soil) Sample Name: **STP-7**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	4650		0.0545	2.54	mg/kg dry	1	10/11/18 15:39
Arsenic	1.49		0.0122	1.27	mg/kg dry	1	10/11/18 15:39
Barium	18.5		0.000979	0.508	mg/kg dry	1	10/11/18 15:39
Beryllium	0.178		0.0000916	0.0254	mg/kg dry	1	10/11/18 15:39
Calcium	294		0.288	25.4	mg/kg dry	1	10/11/18 15:39
Chromium	6.14		0.000913	0.254	mg/kg dry	1	10/11/18 15:39
Cobalt	2.97		0.00111	0.203	mg/kg dry	1	10/11/18 15:39
Copper	6.73		0.00110	0.254	mg/kg dry	1	10/11/18 15:39
Iron	9110		0.115	5.08	mg/kg dry	1	10/11/18 15:39
Lead	4.31		0.00530	1.27	mg/kg dry	1	10/11/18 15:39
Magnesium	910		0.739	50.8	mg/kg dry	1	10/11/18 15:39
Manganese	240		0.000628	0.254	mg/kg dry	1	10/11/18 15:39
Nickel	5.05		0.00175	0.127	mg/kg dry	1	10/11/18 15:39
Potassium	210		2.39	102	mg/kg dry	1	10/11/18 15:39
Sodium	52.0		0.139	50.8	mg/kg dry	1	10/11/18 15:39
Vanadium	11.8		0.00879	0.508	mg/kg dry	1	10/11/18 15:39
Zinc	24.1		0.00233	0.761	mg/kg dry	1	10/11/18 15:39

SW 846 8081B - Pesticides

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
4,4'-DDT [2C]	0.00928		0.000586	0.00140	mg/kg dry	1	10/11/18 17:14

Positive Results Only Summary

8100452-14 (Soil) Sample Name: **STP-7**

SW 846 8081B - Pesticides (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Chlordane	0.0136		0.000939	0.00140	mg/kg dry	1	10/11/18 17:14

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-01 (Soil) Sample Name: **NTP-1A** Collected: **10/10/2018 12:00:00AM**

SW 846 8082A - PCBs

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aroclor-1016	ND	U	0.000654	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1221	ND	U	0.00113	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1232	ND	U	0.000864	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1242	ND	U	0.00125	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1248	ND	U	0.000861	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1254	ND	U	0.00131	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1260	ND	U	0.000968	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1262	ND	U	0.00142	0.0367	mg/kg	1	10/11/18 14:00
Aroclor-1268	ND	U	0.000742	0.0367	mg/kg	1	10/11/18 14:00
Total PCBs	ND	U	0.000654	0.0367	mg/kg	1	10/11/18 14:00

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	**62.8**		**11.1**	**22.2**	**mg/kg**	**1**	**10/11/18 12:51**

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0267	0.0544	mg/kg	1	10/11/18 12:17

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**3290**		**0.0603**	**2.81**	**mg/kg**	**1**	**10/11/18 14:32**
Antimony	ND		0.00593	1.40	mg/kg	1	10/11/18 14:32
Arsenic	ND		0.0135	1.40	mg/kg	1	10/11/18 14:32
Barium	**18.6**		**0.00108**	**0.562**	**mg/kg**	**1**	**10/11/18 14:32**
Beryllium	**0.138**		**0.000101**	**0.0281**	**mg/kg**	**1**	**10/11/18 14:32**
Cadmium	ND		0.000957	0.281	mg/kg	1	10/11/18 14:32
Calcium	**938**		**0.319**	**28.1**	**mg/kg**	**1**	**10/11/18 14:32**
Chromium	**5.14**		**0.00101**	**0.281**	**mg/kg**	**1**	**10/11/18 14:32**
Cobalt	**2.31**		**0.00122**	**0.225**	**mg/kg**	**1**	**10/11/18 14:32**
Copper	**8.71**		**0.00121**	**0.281**	**mg/kg**	**1**	**10/11/18 14:32**
Iron	**7190**		**0.127**	**5.62**	**mg/kg**	**1**	**10/11/18 14:32**
Lead	**23.8**		**0.00586**	**1.40**	**mg/kg**	**1**	**10/11/18 14:32**
Magnesium	**763**		**0.818**	**56.2**	**mg/kg**	**1**	**10/11/18 14:32**
Manganese	**125**		**0.000695**	**0.281**	**mg/kg**	**1**	**10/11/18 14:32**
Nickel	**4.33**		**0.00193**	**0.140**	**mg/kg**	**1**	**10/11/18 14:32**
Potassium	**212**		**2.64**	**112**	**mg/kg**	**1**	**10/11/18 14:32**
Selenium	ND		0.0121	1.40	mg/kg	1	10/11/18 14:32
Silver	ND		0.00335	0.562	mg/kg	1	10/11/18 14:32

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-01 (Soil) Sample Name: **NTP-1A** Collected: **10/10/2018 12:00:00AM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sodium	**107**		**0.154**	**56.2**	**mg/kg**	**1**	**10/11/18 14:32**
Thallium	ND		0.00779	1.40	mg/kg	1	10/11/18 14:32
Vanadium	**9.94**		**0.00973**	**0.562**	**mg/kg**	**1**	**10/11/18 14:32**
Zinc	**22.8**		**0.00258**	**0.843**	**mg/kg**	**1**	**10/11/18 14:32**

SW 846 8081B - Pesticides

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
4,4'-DDD	ND	U	0.000875	0.00145	mg/kg	1	10/11/18 16:06
4,4'-DDE	ND	U	0.00102	0.00145	mg/kg	1	10/11/18 16:06
4,4'-DDT	ND	U	0.000694	0.00145	mg/kg	1	10/11/18 16:06
Aldrin	ND	U	0.000898	0.00145	mg/kg	1	10/11/18 16:06
alpha-BHC	ND	U	0.000559	0.00145	mg/kg	1	10/11/18 16:06
beta-BHC	ND	U	0.00142	0.00145	mg/kg	1	10/11/18 16:06
Chlordane	ND	U	0.000971	0.00145	mg/kg	1	10/11/18 16:06
delta-BHC	ND	U	0.00112	0.00145	mg/kg	1	10/11/18 16:06
Dieldrin	ND	U	0.000779	0.00145	mg/kg	1	10/11/18 16:06
Endosulfan I	ND	U	0.00100	0.00145	mg/kg	1	10/11/18 16:06
Endosulfan II	ND	U	0.000786	0.00145	mg/kg	1	10/11/18 16:06
Endosulfan sulfate	ND	U	0.000786	0.00145	mg/kg	1	10/11/18 16:06
Endrin	ND	U	0.000742	0.00145	mg/kg	1	10/11/18 16:06
Endrin aldehyde	ND	U	0.000617	0.00145	mg/kg	1	10/11/18 16:06
Endrin ketone	ND	U	0.000882	0.00145	mg/kg	1	10/11/18 16:06
gamma-BHC (Lindane)	ND	U	0.000661	0.00145	mg/kg	1	10/11/18 16:06
Heptachlor	ND	U	0.000845	0.00145	mg/kg	1	10/11/18 16:06
Heptachlor Epoxide	ND	U	0.000904	0.00145	mg/kg	1	10/11/18 16:06
Methoxychlor	ND	U	0.000920	0.00145	mg/kg	1	10/11/18 16:06
Toxaphene	ND	U	0.0225	0.0734	mg/kg	1	10/11/18 16:06

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.0355	0.222	mg/kg	1	10/11/18 14:10
2,3,4,6-Tetrachlorophenol	ND	U	0.0228	0.148	mg/kg	1	10/11/18 14:10
2,4,5-Trichlorophenol	ND	U	0.0201	0.148	mg/kg	1	10/11/18 14:10
2,4,6-Trichlorophenol	ND	U	0.00927	0.148	mg/kg	1	10/11/18 14:10
2,4-Dichlorophenol	ND	U	0.0149	0.148	mg/kg	1	10/11/18 14:10
2,4-Dimethylphenol	ND	U	0.0146	0.148	mg/kg	1	10/11/18 14:10
2,4-Dinitrophenol	ND	U	0.0214	0.742	mg/kg	1	10/11/18 14:10
2,4-Dinitrotoluene	ND	U	0.0158	0.148	mg/kg	1	10/11/18 14:10
2,6-Dinitrotoluene	ND	U	0.0354	0.148	mg/kg	1	10/11/18 14:10

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-01 (Soil) Sample Name: **NTP-1A** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
2-Chloronaphthalene	ND	U	0.0170	0.148	mg/kg	1	10/11/18 14:10
2-Chlorophenol	ND	U	0.0196	0.148	mg/kg	1	10/11/18 14:10
2-Methylnaphthalene	ND	U	0.0355	0.222	mg/kg	1	10/11/18 14:10
2-Methylphenol	ND	U	0.0293	0.148	mg/kg	1	10/11/18 14:10
2-Nitroaniline	ND	U	0.0119	0.148	mg/kg	1	10/11/18 14:10
2-Nitrophenol	ND	U	0.0165	0.148	mg/kg	1	10/11/18 14:10
3,3'-Dichlorobenzidine	ND	U	0.0156	0.148	mg/kg	1	10/11/18 14:10
3+4-Methylphenol	ND	U	0.0271	0.148	mg/kg	1	10/11/18 14:10
3-Nitroaniline	ND	U	0.0275	0.148	mg/kg	1	10/11/18 14:10
4,6-Dinitro-2-methylphenol	ND	U	0.0279	0.370	mg/kg	1	10/11/18 14:10
4-Bromophenyl-phenyl ether	ND	U	0.0211	0.148	mg/kg	1	10/11/18 14:10
4-Chloro-3-methylphenol	ND	U	0.0234	0.148	mg/kg	1	10/11/18 14:10
4-Chloroaniline	ND	U	0.00518	0.148	mg/kg	1	10/11/18 14:10
4-Chlorophenyl phenyl ether	ND	U	0.00800	0.148	mg/kg	1	10/11/18 14:10
4-Nitroaniline	ND	U	0.0741	0.148	mg/kg	1	10/11/18 14:10
4-Nitrophenol	ND	U	0.00948	0.148	mg/kg	1	10/11/18 14:10
Acenaphthene	ND	U	0.00844	0.148	mg/kg	1	10/11/18 14:10
Acenaphthylene	ND	U	0.00515	0.148	mg/kg	1	10/11/18 14:10
Acetophenone	ND	U	0.0147	0.148	mg/kg	1	10/11/18 14:10
Anthracene	ND	U	0.0215	0.148	mg/kg	1	10/11/18 14:10
Atrazine	ND	U	0.0139	0.148	mg/kg	1	10/11/18 14:10
Benzaldehyde	ND	U	0.0455	0.148	mg/kg	1	10/11/18 14:10
Benzo(a)anthracene	**0.0995**	**J**	**0.0149**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Benzo(a)pyrene	**0.0887**	**J**	**0.0258**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Benzo(b)fluoranthene	**0.107**	**J**	**0.0208**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Benzo(g,h,i)perylene	**0.0702**	**J**	**0.0120**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Benzo(k)fluoranthene	**0.0788**	**J**	**0.0170**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Biphenyl	ND	U	0.0130	0.148	mg/kg	1	10/11/18 14:10
bis(2-chloroethoxy)methane	ND	U	0.0205	0.148	mg/kg	1	10/11/18 14:10
bis(2-chloroethyl)ether	ND	U	0.0162	0.148	mg/kg	1	10/11/18 14:10
bis(2-chloroisopropyl)ether	ND	U	0.0533	0.148	mg/kg	1	10/11/18 14:10
bis(2-ethylhexyl)phthalate	ND	U	0.0296	0.148	mg/kg	1	10/11/18 14:10
Butylbenzylphthalate	ND	U	0.0135	0.148	mg/kg	1	10/11/18 14:10
Caprolactam	ND	U	0.0191	0.148	mg/kg	1	10/11/18 14:10
Carbazole	ND	U	0.0285	0.370	mg/kg	1	10/11/18 14:10
Chrysene	**0.0909**	**J**	**0.0101**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Dibenzo(a,h)anthracene	ND	U	0.0147	0.148	mg/kg	1	10/11/18 14:10
Dibenzofuran	ND	U	0.00882	0.148	mg/kg	1	10/11/18 14:10
Diethylphthalate	ND	U	0.0287	0.148	mg/kg	1	10/11/18 14:10

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-01 (Soil) Sample Name: **NTP-1A** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Dimethylphthalate	ND	U	0.00919	0.148	mg/kg	1	10/11/18 14:10
Di-n-butylphthalate	ND	U	0.0605	0.148	mg/kg	1	10/11/18 14:10
Di-n-octylphthalate	ND	U	0.0304	0.148	mg/kg	1	10/11/18 14:10
Fluoranthene	**0.167**		**0.0139**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Fluorene	ND	U	0.0123	0.148	mg/kg	1	10/11/18 14:10
Hexachlorobenzene	ND	U	0.0194	0.148	mg/kg	1	10/11/18 14:10
Hexachlorobutadiene	ND	U	0.0711	0.148	mg/kg	1	10/11/18 14:10
Hexachlorocyclopentadiene	ND	U	0.0617	0.370	mg/kg	1	10/11/18 14:10
Hexachloroethane	ND	U	0.0162	0.148	mg/kg	1	10/11/18 14:10
Indeno(1,2,3-cd)pyrene	**0.0610**	**J**	**0.0159**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Isophorone	ND	U	0.00970	0.148	mg/kg	1	10/11/18 14:10
Naphthalene	ND	U	0.0110	0.148	mg/kg	1	10/11/18 14:10
Nitrobenzene	ND	U	0.0251	0.148	mg/kg	1	10/11/18 14:10
n-Nitroso-di-n-propylamine	ND	U	0.00793	0.148	mg/kg	1	10/11/18 14:10
n-Nitrosodiphenylamine	ND	U	0.0316	0.148	mg/kg	1	10/11/18 14:10
Phenanthrene	**0.126**	**J**	**0.0195**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**
Phenol	ND	U	0.0120	0.148	mg/kg	1	10/11/18 14:10
Pyrene	**0.158**		**0.0109**	**0.148**	**mg/kg**	**1**	**10/11/18 14:10**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed

No TICs Found

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000178	0.00122	mg/kg	1	10/10/18 18:59
1,1,2,2-Tetrachloroethane	ND	U	0.000169	0.00122	mg/kg	1	10/10/18 18:59
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000523	0.00122	mg/kg	1	10/10/18 18:59
1,1,2-Trichloroethane	ND	U	0.000206	0.00122	mg/kg	1	10/10/18 18:59
1,1-Dichloroethane	ND	U	0.000178	0.00122	mg/kg	1	10/10/18 18:59
1,1-Dichloroethene	ND	U	0.000226	0.00122	mg/kg	1	10/10/18 18:59
1,2,3-Trichlorobenzene	ND	U	0.000264	0.00122	mg/kg	1	10/10/18 18:59
1,2,4-Trichlorobenzene	ND	U	0.000326	0.00122	mg/kg	1	10/10/18 18:59
1,2,4-Trimethylbenzene	ND	U	0.000169	0.00122	mg/kg	1	10/10/18 18:59
1,2-Dibromo-3-chloropropane	ND	U	0.000298	0.00122	mg/kg	1	10/10/18 18:59
1,2-Dibromoethane	ND	U	0.000154	0.00122	mg/kg	1	10/10/18 18:59
1,2-Dichlorobenzene	ND	U	0.000216	0.00122	mg/kg	1	10/10/18 18:59
1,2-Dichloroethane	ND	U	0.000172	0.00122	mg/kg	1	10/10/18 18:59

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-01 (Soil) Sample Name: **NTP-1A** Collected: **10/10/2018 12:00:00AM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,2-Dichloropropane	ND	U	0.000200	0.00122	mg/kg	1	10/10/18 18:59
1,3-Dichlorobenzene	ND	U	0.0000898	0.00122	mg/kg	1	10/10/18 18:59
1,4-Dichlorobenzene	ND	U	0.000176	0.00122	mg/kg	1	10/10/18 18:59
2-Butanone	ND	U	0.000199	0.00306	mg/kg	1	10/10/18 18:59
2-Hexanone	ND	U	0.000114	0.00122	mg/kg	1	10/10/18 18:59
4-Methyl-2-pentanone	ND	U	0.000153	0.00122	mg/kg	1	10/10/18 18:59
Acetone	ND	U	0.000370	0.00306	mg/kg	1	10/10/18 18:59
Benzene	ND	U	0.000111	0.00122	mg/kg	1	10/10/18 18:59
Bromochloromethane	ND	U	0.000226	0.00122	mg/kg	1	10/10/18 18:59
Bromodichloromethane	ND	U	0.000153	0.00122	mg/kg	1	10/10/18 18:59
Bromoform	ND	U	0.000215	0.00122	mg/kg	1	10/10/18 18:59
Bromomethane	ND	U	0.000353	0.00122	mg/kg	1	10/10/18 18:59
Carbon disulfide	ND	U	0.000175	0.00122	mg/kg	1	10/10/18 18:59
Carbon Tetrachloride	ND	U	0.000184	0.00122	mg/kg	1	10/10/18 18:59
Chlorobenzene	ND	U	0.000177	0.00122	mg/kg	1	10/10/18 18:59
Chlorodibromomethane	ND	U	0.000150	0.00122	mg/kg	1	10/10/18 18:59
Chloroethane	ND	U	0.000208	0.00122	mg/kg	1	10/10/18 18:59
Chloroform	ND	U	0.000205	0.00122	mg/kg	1	10/10/18 18:59
Chloromethane	ND	U	0.000471	0.00122	mg/kg	1	10/10/18 18:59
cis-1,2-Dichloroethene	ND	U	0.0000591	0.00122	mg/kg	1	10/10/18 18:59
cis-1,3-Dichloropropene	ND	U	0.000155	0.00122	mg/kg	1	10/10/18 18:59
Cyclohexane	ND	U	0.000271	0.00122	mg/kg	1	10/10/18 18:59
Dichlorodifluoromethane	ND	U	0.000413	0.00122	mg/kg	1	10/10/18 18:59
EthylBenzene	ND	U	0.000166	0.00122	mg/kg	1	10/10/18 18:59
Isopropylbenzene	ND	U	0.000192	0.00122	mg/kg	1	10/10/18 18:59
m+p-Xylenes	ND	U	0.000309	0.00244	mg/kg	1	10/10/18 18:59
Methyl Acetate	ND	U	0.000162	0.00122	mg/kg	1	10/10/18 18:59
Methyl tert-Butyl Ether	ND	U	0.000207	0.00122	mg/kg	1	10/10/18 18:59
Methylcyclohexane	ND	U	0.000197	0.00122	mg/kg	1	10/10/18 18:59
Methylene Chloride	ND	U	0.000367	0.00122	mg/kg	1	10/10/18 18:59
o-Xylene	ND	U	0.000157	0.00122	mg/kg	1	10/10/18 18:59
Styrene	ND	U	0.000175	0.00122	mg/kg	1	10/10/18 18:59
tert-Butyl alcohol	ND	U	0.00257	0.0122	mg/kg	1	10/10/18 18:59
Tetrachloroethene	**0.00329**		**0.000121**	**0.00122**	**mg/kg**	**1**	**10/10/18 18:59**
Toluene	ND	U	0.0000984	0.00122	mg/kg	1	10/10/18 18:59
Total Xylenes	ND	U	0.000157	0.00122	mg/kg	1	10/10/18 18:59
trans-1,2-Dichloroethene	ND	U	0.000166	0.00122	mg/kg	1	10/10/18 18:59
trans-1,3-Dichloropropene	ND	U	0.000233	0.00122	mg/kg	1	10/10/18 18:59
Trichloroethene	ND	U	0.000180	0.00122	mg/kg	1	10/10/18 18:59

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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-01 (Soil) Sample Name: NTP-1A Collected: 10/10/2018 12:00:00AM

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Trichlorofluoromethane	ND	U	0.000141	0.00122	mg/kg	1	10/10/18 18:59
Vinyl chloride	ND	U	0.000232	0.00122	mg/kg	1	10/10/18 18:59

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**89.9**				**%**	**1**	**10/11/18 10:54**

SW 846 9014 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Cyanide	ND		0.0834	0.278	mg/kg	1	10/11/18 13:30

8100452-02 (Soil) Sample Name: NTP-2A Collected: 10/10/2018 12:00:00AM

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	**97.5**		**10.8**	**21.6**	**mg/kg**	**1**	**10/11/18 13:27**

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0228	0.0465	mg/kg	1	10/11/18 12:20

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**3800**		**0.0563**	**2.62**	**mg/kg**	**1**	**10/11/18 14:34**
Antimony	ND		0.00554	1.31	mg/kg	1	10/11/18 14:34
Arsenic	ND		0.0126	1.31	mg/kg	1	10/11/18 14:34
Barium	**21.4**		**0.00101**	**0.525**	**mg/kg**	**1**	**10/11/18 14:34**
Beryllium	**0.160**		**0.0000946**	**0.0262**	**mg/kg**	**1**	**10/11/18 14:34**
Cadmium	ND		0.000894	0.262	mg/kg	1	10/11/18 14:34
Calcium	**1260**		**0.298**	**26.2**	**mg/kg**	**1**	**10/11/18 14:34**
Chromium	**6.19**		**0.000943**	**0.262**	**mg/kg**	**1**	**10/11/18 14:34**
Cobalt	**2.83**		**0.00114**	**0.210**	**mg/kg**	**1**	**10/11/18 14:34**
Copper	**10.4**		**0.00113**	**0.262**	**mg/kg**	**1**	**10/11/18 14:34**
Iron	**8240**		**0.119**	**5.25**	**mg/kg**	**1**	**10/11/18 14:34**

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J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-02 (Soil) Sample Name: **NTP-2A** Collected: **10/10/2018 12:00:00AM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Lead	**26.2**		**0.00548**	**1.31**	**mg/kg**	**1**	**10/11/18 14:34**
Magnesium	**952**		**0.764**	**52.5**	**mg/kg**	**1**	**10/11/18 14:34**
Manganese	**144**		**0.000649**	**0.262**	**mg/kg**	**1**	**10/11/18 14:34**
Nickel	**5.14**		**0.00180**	**0.131**	**mg/kg**	**1**	**10/11/18 14:34**
Potassium	**251**		**2.47**	**105**	**mg/kg**	**1**	**10/11/18 14:34**
Selenium	ND		0.0113	1.31	mg/kg	1	10/11/18 14:34
Silver	ND		0.00313	0.525	mg/kg	1	10/11/18 14:34
Sodium	**116**		**0.144**	**52.5**	**mg/kg**	**1**	**10/11/18 14:34**
Thallium	ND		0.00727	1.31	mg/kg	1	10/11/18 14:34
Vanadium	**11.2**		**0.00909**	**0.525**	**mg/kg**	**1**	**10/11/18 14:34**
Zinc	**30.2**		**0.00241**	**0.787**	**mg/kg**	**1**	**10/11/18 14:34**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.120	0.216	mg/kg	1	10/11/18 14:38
2-Methylnaphthalene	ND	U	0.0345	0.216	mg/kg	1	10/11/18 14:38
Acenaphthene	ND	U	0.00820	0.144	mg/kg	1	10/11/18 14:38
Acenaphthylene	ND	U	0.00500	0.144	mg/kg	1	10/11/18 14:38
Anthracene	ND	U	0.0209	0.144	mg/kg	1	10/11/18 14:38
Benzo(a)anthracene	**0.0754**	**J**	**0.0145**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Benzo(a)pyrene	**0.0733**	**J**	**0.0251**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Benzo(b)fluoranthene	ND	U	0.0202	0.144	mg/kg	1	10/11/18 14:38
Benzo(g,h,i)perylene	**0.0911**	**J**	**0.0117**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Benzo(k)fluoranthene	**0.106**	**J**	**0.0165**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Chrysene	**0.0911**	**J**	**0.00985**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Dibenzo(a,h)anthracene	ND	U	0.0143	0.144	mg/kg	1	10/11/18 14:38
Fluoranthene	**0.120**	**J**	**0.0135**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Fluorene	ND	U	0.0120	0.144	mg/kg	1	10/11/18 14:38
Indeno(1,2,3-cd)pyrene	ND	U	0.0155	0.144	mg/kg	1	10/11/18 14:38
Naphthalene	ND	U	0.0107	0.144	mg/kg	1	10/11/18 14:38
Phenanthrene	**0.0544**	**J**	**0.0189**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**
Pyrene	**0.130**	**J**	**0.0106**	**0.144**	**mg/kg**	**1**	**10/11/18 14:38**

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000128	0.000879	mg/kg	1	10/10/18 19:28
1,1,2,2-Tetrachloroethane	ND	U	0.000121	0.000879	mg/kg	1	10/10/18 19:28
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000376	0.000879	mg/kg	1	10/10/18 19:28

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-02 (Soil) Sample Name: **NTP-2A** Collected: **10/10/2018 12:00:00AM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,2-Trichloroethane	ND	U	0.000148	0.000879	mg/kg	1	10/10/18 19:28
1,1-Dichloroethane	ND	U	0.000128	0.000879	mg/kg	1	10/10/18 19:28
1,1-Dichloroethene	ND	U	0.000163	0.000879	mg/kg	1	10/10/18 19:28
1,2,3-Trichlorobenzene	ND	U	0.000190	0.000879	mg/kg	1	10/10/18 19:28
1,2,4-Trichlorobenzene	ND	U	0.000234	0.000879	mg/kg	1	10/10/18 19:28
1,2,4-Trimethylbenzene	ND	U	0.000121	0.000879	mg/kg	1	10/10/18 19:28
1,2-Dibromo-3-chloropropane	ND	U	0.000214	0.000879	mg/kg	1	10/10/18 19:28
1,2-Dibromoethane	ND	U	0.000111	0.000879	mg/kg	1	10/10/18 19:28
1,2-Dichlorobenzene	ND	U	0.000155	0.000879	mg/kg	1	10/10/18 19:28
1,2-Dichloroethane	ND	U	0.000124	0.000879	mg/kg	1	10/10/18 19:28
1,2-Dichloropropane	ND	U	0.000144	0.000879	mg/kg	1	10/10/18 19:28
1,3-Dichlorobenzene	ND	U	0.0000646	0.000879	mg/kg	1	10/10/18 19:28
1,4-Dichlorobenzene	ND	U	0.000127	0.000879	mg/kg	1	10/10/18 19:28
2-Butanone	ND	U	0.000143	0.00220	mg/kg	1	10/10/18 19:28
2-Hexanone	ND	U	0.0000821	0.000879	mg/kg	1	10/10/18 19:28
4-Methyl-2-pentanone	ND	U	0.000110	0.000879	mg/kg	1	10/10/18 19:28
Acetone	ND	U	0.000266	0.00220	mg/kg	1	10/10/18 19:28
Benzene	ND	U	0.0000799	0.000879	mg/kg	1	10/10/18 19:28
Bromochloromethane	ND	U	0.000162	0.000879	mg/kg	1	10/10/18 19:28
Bromodichloromethane	ND	U	0.000110	0.000879	mg/kg	1	10/10/18 19:28
Bromoform	ND	U	0.000154	0.000879	mg/kg	1	10/10/18 19:28
Bromomethane	ND	U	0.000253	0.000879	mg/kg	1	10/10/18 19:28
Carbon disulfide	ND	U	0.000126	0.000879	mg/kg	1	10/10/18 19:28
Carbon Tetrachloride	ND	U	0.000132	0.000879	mg/kg	1	10/10/18 19:28
Chlorobenzene	ND	U	0.000127	0.000879	mg/kg	1	10/10/18 19:28
Chlorodibromomethane	ND	U	0.000108	0.000879	mg/kg	1	10/10/18 19:28
Chloroethane	ND	U	0.000150	0.000879	mg/kg	1	10/10/18 19:28
Chloroform	ND	U	0.000148	0.000879	mg/kg	1	10/10/18 19:28
Chloromethane	ND	U	0.000338	0.000879	mg/kg	1	10/10/18 19:28
cis-1,2-Dichloroethene	ND	U	0.0000425	0.000879	mg/kg	1	10/10/18 19:28
cis-1,3-Dichloropropene	ND	U	0.000111	0.000879	mg/kg	1	10/10/18 19:28
Cyclohexane	ND	U	0.000195	0.000879	mg/kg	1	10/10/18 19:28
Dichlorodifluoromethane	ND	U	0.000297	0.000879	mg/kg	1	10/10/18 19:28
EthylBenzene	ND	U	0.000119	0.000879	mg/kg	1	10/10/18 19:28
Isopropylbenzene	ND	U	0.000138	0.000879	mg/kg	1	10/10/18 19:28
m+p-Xylenes	ND	U	0.000222	0.00176	mg/kg	1	10/10/18 19:28
Methyl Acetate	ND	U	0.000116	0.000879	mg/kg	1	10/10/18 19:28
Methyl tert-Butyl Ether	ND	U	0.000148	0.000879	mg/kg	1	10/10/18 19:28
Methylcyclohexane	ND	U	0.000141	0.000879	mg/kg	1	10/10/18 19:28

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-02 (Soil) Sample Name: NTP-2A Collected: 10/10/2018 12:00:00AM

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Methylene Chloride	ND	U	0.000264	0.000879	mg/kg	1	10/10/18 19:28
o-Xylene	ND	U	0.000113	0.000879	mg/kg	1	10/10/18 19:28
Styrene	ND	U	0.000126	0.000879	mg/kg	1	10/10/18 19:28
tert-Butyl alcohol	ND	U	0.00184	0.00879	mg/kg	1	10/10/18 19:28
Tetrachloroethene	**0.00240**		**0.0000870**	**0.000879**	**mg/kg**	**1**	**10/10/18 19:28**
Toluene	ND	U	0.0000707	0.000879	mg/kg	1	10/10/18 19:28
Total Xylenes	ND	U	0.000113	0.000879	mg/kg	1	10/10/18 19:28
trans-1,2-Dichloroethene	ND	U	0.000119	0.000879	mg/kg	1	10/10/18 19:28
trans-1,3-Dichloropropene	ND	U	0.000168	0.000879	mg/kg	1	10/10/18 19:28
Trichloroethene	ND	U	0.000129	0.000879	mg/kg	1	10/10/18 19:28
Trichlorofluoromethane	ND	U	0.000101	0.000879	mg/kg	1	10/10/18 19:28
Vinyl chloride	ND	U	0.000167	0.000879	mg/kg	1	10/10/18 19:28

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**92.5**				**%**	**1**	**10/11/18 10:54**

8100452-03 (Soil) Sample Name: NTP-2B Collected: 10/10/2018 12:00:00AM

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	**38.1**		**10.8**	**21.7**	**mg/kg**	**1**	**10/11/18 14:02**

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0250	0.0510	mg/kg	1	10/11/18 12:24

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**3620**		**0.0549**	**2.56**	**mg/kg**	**1**	**10/11/18 14:36**
Antimony	ND		0.00540	1.28	mg/kg	1	10/11/18 14:36
Arsenic	ND		0.0123	1.28	mg/kg	1	10/11/18 14:36
Barium	**17.9**		**0.000986**	**0.511**	**mg/kg**	**1**	**10/11/18 14:36**
Beryllium	**0.184**		**0.0000922**	**0.0256**	**mg/kg**	**1**	**10/11/18 14:36**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-03 (Soil) Sample Name: **NTP-2B** Collected: **10/10/2018 12:00:00AM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Cadmium	ND		0.000871	0.256	mg/kg	1	10/11/18 14:36
Calcium	**1100**		**0.290**	**25.6**	**mg/kg**	**1**	**10/11/18 14:36**
Chromium	**5.98**		**0.000919**	**0.256**	**mg/kg**	**1**	**10/11/18 14:36**
Cobalt	**2.49**		**0.00111**	**0.205**	**mg/kg**	**1**	**10/11/18 14:36**
Copper	**9.46**		**0.00110**	**0.256**	**mg/kg**	**1**	**10/11/18 14:36**
Iron	**8490**		**0.116**	**5.11**	**mg/kg**	**1**	**10/11/18 14:36**
Lead	**19.0**		**0.00534**	**1.28**	**mg/kg**	**1**	**10/11/18 14:36**
Magnesium	**885**		**0.744**	**51.1**	**mg/kg**	**1**	**10/11/18 14:36**
Manganese	**139**		**0.000633**	**0.256**	**mg/kg**	**1**	**10/11/18 14:36**
Nickel	**5.09**		**0.00176**	**0.128**	**mg/kg**	**1**	**10/11/18 14:36**
Potassium	**233**		**2.40**	**102**	**mg/kg**	**1**	**10/11/18 14:36**
Selenium	ND		0.0110	1.28	mg/kg	1	10/11/18 14:36
Silver	ND		0.00305	0.511	mg/kg	1	10/11/18 14:36
Sodium	**93.8**		**0.140**	**51.1**	**mg/kg**	**1**	**10/11/18 14:36**
Thallium	ND		0.00709	1.28	mg/kg	1	10/11/18 14:36
Vanadium	**12.0**		**0.00886**	**0.511**	**mg/kg**	**1**	**10/11/18 14:36**
Zinc	**24.5**		**0.00235**	**0.767**	**mg/kg**	**1**	**10/11/18 14:36**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.120	0.217	mg/kg	1	10/11/18 15:07
2-Methylnaphthalene	ND	U	0.0346	0.217	mg/kg	1	10/11/18 15:07
Acenaphthene	ND	U	0.00823	0.144	mg/kg	1	10/11/18 15:07
Acenaphthylene	ND	U	0.00502	0.144	mg/kg	1	10/11/18 15:07
Anthracene	ND	U	0.0209	0.144	mg/kg	1	10/11/18 15:07
Benzo(a)anthracene	**0.0876**	**J**	**0.0145**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Benzo(a)pyrene	**0.0814**	**J**	**0.0251**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Benzo(b)fluoranthene	**0.0987**	**J**	**0.0203**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Benzo(g,h,i)perylene	**0.0663**	**J**	**0.0117**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Benzo(k)fluoranthene	**0.0460**	**J**	**0.0166**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Chrysene	**0.0730**	**J**	**0.00989**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Dibenzo(a,h)anthracene	ND	U	0.0143	0.144	mg/kg	1	10/11/18 15:07
Fluoranthene	**0.153**		**0.0135**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Fluorene	ND	U	0.0120	0.144	mg/kg	1	10/11/18 15:07
Indeno(1,2,3-cd)pyrene	ND	U	0.0155	0.144	mg/kg	1	10/11/18 15:07
Naphthalene	ND	U	0.0107	0.144	mg/kg	1	10/11/18 15:07
Phenanthrene	**0.114**	**J**	**0.0190**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**
Pyrene	**0.137**	**J**	**0.0106**	**0.144**	**mg/kg**	**1**	**10/11/18 15:07**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

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All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-03 (Soil) Sample Name: **NTP-2B** Collected: **10/10/2018 12:00:00AM**

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**92.3**				**%**	**1**	**10/11/18 10:54**

8100452-04 (Soil) Sample Name: **NTP-3B** Collected: **10/10/2018 12:00:00AM**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.9	21.9	mg/kg	1	10/11/18 14:37

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0244	0.0497	mg/kg	1	10/11/18 12:27

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**4300**		**0.0571**	**2.66**	**mg/kg**	**1**	**10/11/18 14:38**
Antimony	ND		0.00561	1.33	mg/kg	1	10/11/18 14:38
Arsenic	ND		0.0128	1.33	mg/kg	1	10/11/18 14:38
Barium	**24.3**		**0.00102**	**0.532**	**mg/kg**	**1**	**10/11/18 14:38**
Beryllium	**0.181**		**0.0000959**	**0.0266**	**mg/kg**	**1**	**10/11/18 14:38**
Cadmium	ND		0.000906	0.266	mg/kg	1	10/11/18 14:38
Calcium	**619**		**0.302**	**26.6**	**mg/kg**	**1**	**10/11/18 14:38**
Chromium	**7.12**		**0.000956**	**0.266**	**mg/kg**	**1**	**10/11/18 14:38**
Cobalt	**3.03**		**0.00116**	**0.213**	**mg/kg**	**1**	**10/11/18 14:38**
Copper	**7.89**		**0.00115**	**0.266**	**mg/kg**	**1**	**10/11/18 14:38**
Iron	**9220**		**0.120**	**5.32**	**mg/kg**	**1**	**10/11/18 14:38**
Lead	**6.72**		**0.00555**	**1.33**	**mg/kg**	**1**	**10/11/18 14:38**
Magnesium	**946**		**0.774**	**53.2**	**mg/kg**	**1**	**10/11/18 14:38**
Manganese	**165**		**0.000658**	**0.266**	**mg/kg**	**1**	**10/11/18 14:38**
Nickel	**5.13**		**0.00183**	**0.133**	**mg/kg**	**1**	**10/11/18 14:38**
Potassium	**252**		**2.50**	**106**	**mg/kg**	**1**	**10/11/18 14:38**
Selenium	ND		0.0115	1.33	mg/kg	1	10/11/18 14:38
Silver	ND		0.00317	0.532	mg/kg	1	10/11/18 14:38
Sodium	**136**		**0.146**	**53.2**	**mg/kg**	**1**	**10/11/18 14:38**
Thallium	ND		0.00737	1.33	mg/kg	1	10/11/18 14:38
Vanadium	**13.4**		**0.00921**	**0.532**	**mg/kg**	**1**	**10/11/18 14:38**
Zinc	**20.3**		**0.00245**	**0.797**	**mg/kg**	**1**	**10/11/18 14:38**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-04 (Soil) Sample Name: **NTP-3B** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.122	0.219	mg/kg	1	10/11/18 15:35
2-Methylnaphthalene	ND	U	0.0349	0.219	mg/kg	1	10/11/18 15:35
Acenaphthene	ND	U	0.00831	0.146	mg/kg	1	10/11/18 15:35
Acenaphthylene	ND	U	0.00507	0.146	mg/kg	1	10/11/18 15:35
Anthracene	ND	U	0.0211	0.146	mg/kg	1	10/11/18 15:35
Benzo(a)anthracene	ND	U	0.0147	0.146	mg/kg	1	10/11/18 15:35
Benzo(a)pyrene	ND	U	0.0254	0.146	mg/kg	1	10/11/18 15:35
Benzo(b)fluoranthene	ND	U	0.0205	0.146	mg/kg	1	10/11/18 15:35
Benzo(g,h,i)perylene	ND	U	0.0118	0.146	mg/kg	1	10/11/18 15:35
Benzo(k)fluoranthene	ND	U	0.0168	0.146	mg/kg	1	10/11/18 15:35
Chrysene	ND	U	0.00999	0.146	mg/kg	1	10/11/18 15:35
Dibenzo(a,h)anthracene	ND	U	0.0145	0.146	mg/kg	1	10/11/18 15:35
Fluoranthene	ND	U	0.0137	0.146	mg/kg	1	10/11/18 15:35
Fluorene	ND	U	0.0122	0.146	mg/kg	1	10/11/18 15:35
Indeno(1,2,3-cd)pyrene	ND	U	0.0157	0.146	mg/kg	1	10/11/18 15:35
Naphthalene	ND	U	0.0108	0.146	mg/kg	1	10/11/18 15:35
Phenanthrene	ND	U	0.0192	0.146	mg/kg	1	10/11/18 15:35
Pyrene	ND	U	0.0107	0.146	mg/kg	1	10/11/18 15:35

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**91.3**				**%**	**1**	**10/11/18 10:54**

8100452-05 (Soil) Sample Name: **NTP-4B** Collected: **10/10/2018 12:35:00PM**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.9	21.7	mg/kg	1	10/11/18 15:25

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0246	0.0502	mg/kg	1	10/11/18 12:40

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

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All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-05 (Soil) Sample Name: **NTP-4B** Collected: **10/10/2018 12:35:00PM**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**5500**		**0.0614**	**2.86**	**mg/kg**	**1**	**10/11/18 14:40**
Antimony	ND		0.00604	1.43	mg/kg	1	10/11/18 14:40
Arsenic	ND		0.0137	1.43	mg/kg	1	10/11/18 14:40
Barium	**31.8**		**0.00110**	**0.572**	**mg/kg**	**1**	**10/11/18 14:40**
Beryllium	**0.203**		**0.000103**	**0.0286**	**mg/kg**	**1**	**10/11/18 14:40**
Cadmium	ND		0.000975	0.286	mg/kg	1	10/11/18 14:40
Calcium	**933**		**0.325**	**28.6**	**mg/kg**	**1**	**10/11/18 14:40**
Chromium	**11.2**		**0.00103**	**0.286**	**mg/kg**	**1**	**10/11/18 14:40**
Cobalt	**4.83**		**0.00125**	**0.229**	**mg/kg**	**1**	**10/11/18 14:40**
Copper	**9.21**		**0.00124**	**0.286**	**mg/kg**	**1**	**10/11/18 14:40**
Iron	**12100**		**0.129**	**5.72**	**mg/kg**	**1**	**10/11/18 14:40**
Lead	**5.21**		**0.00597**	**1.43**	**mg/kg**	**1**	**10/11/18 14:40**
Magnesium	**1750**		**0.833**	**57.2**	**mg/kg**	**1**	**10/11/18 14:40**
Manganese	**229**		**0.000708**	**0.286**	**mg/kg**	**1**	**10/11/18 14:40**
Nickel	**7.75**		**0.00197**	**0.143**	**mg/kg**	**1**	**10/11/18 14:40**
Potassium	**261**		**2.69**	**114**	**mg/kg**	**1**	**10/11/18 14:40**
Selenium	ND		0.0124	1.43	mg/kg	1	10/11/18 14:40
Silver	ND		0.00341	0.572	mg/kg	1	10/11/18 14:40
Sodium	**335**		**0.157**	**57.2**	**mg/kg**	**1**	**10/11/18 14:40**
Thallium	ND		0.00793	1.43	mg/kg	1	10/11/18 14:40
Vanadium	**18.9**		**0.00991**	**0.572**	**mg/kg**	**1**	**10/11/18 14:40**
Zinc	**17.6**		**0.00263**	**0.858**	**mg/kg**	**1**	**10/11/18 14:40**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.121	0.217	mg/kg	1	10/11/18 16:04
2-Methylnaphthalene	ND	U	0.0347	0.217	mg/kg	1	10/11/18 16:04
Acenaphthene	ND	U	0.00825	0.145	mg/kg	1	10/11/18 16:04
Acenaphthylene	ND	U	0.00503	0.145	mg/kg	1	10/11/18 16:04
Anthracene	ND	U	0.0210	0.145	mg/kg	1	10/11/18 16:04
Benzo(a)anthracene	ND	U	0.0146	0.145	mg/kg	1	10/11/18 16:04
Benzo(a)pyrene	ND	U	0.0252	0.145	mg/kg	1	10/11/18 16:04
Benzo(b)fluoranthene	ND	U	0.0203	0.145	mg/kg	1	10/11/18 16:04
Benzo(g,h,i)perylene	ND	U	0.0117	0.145	mg/kg	1	10/11/18 16:04
Benzo(k)fluoranthene	ND	U	0.0166	0.145	mg/kg	1	10/11/18 16:04
Chrysene	ND	U	0.00991	0.145	mg/kg	1	10/11/18 16:04
Dibenzo(a,h)anthracene	ND	U	0.0143	0.145	mg/kg	1	10/11/18 16:04
Fluoranthene	ND	U	0.0136	0.145	mg/kg	1	10/11/18 16:04
Fluorene	ND	U	0.0121	0.145	mg/kg	1	10/11/18 16:04

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-05 (Soil) Sample Name: **NTP-4B** Collected: **10/10/2018 12:35:00PM**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Indeno(1,2,3-cd)pyrene	ND	U	0.0155	0.145	mg/kg	1	10/11/18 16:04
Naphthalene	ND	U	0.0107	0.145	mg/kg	1	10/11/18 16:04
Phenanthrene	ND	U	0.0190	0.145	mg/kg	1	10/11/18 16:04
Pyrene	ND	U	0.0106	0.145	mg/kg	1	10/11/18 16:04

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000139	0.000954	mg/kg	1	10/10/18 19:58
1,1,2,2-Tetrachloroethane	ND	U	0.000132	0.000954	mg/kg	1	10/10/18 19:58
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000408	0.000954	mg/kg	1	10/10/18 19:58
1,1,2-Trichloroethane	ND	U	0.000161	0.000954	mg/kg	1	10/10/18 19:58
1,1-Dichloroethane	ND	U	0.000139	0.000954	mg/kg	1	10/10/18 19:58
1,1-Dichloroethene	ND	U	0.000176	0.000954	mg/kg	1	10/10/18 19:58
1,2,3-Trichlorobenzene	ND	U	0.000206	0.000954	mg/kg	1	10/10/18 19:58
1,2,4-Trichlorobenzene	ND	U	0.000254	0.000954	mg/kg	1	10/10/18 19:58
1,2,4-Trimethylbenzene	ND	U	0.000132	0.000954	mg/kg	1	10/10/18 19:58
1,2-Dibromo-3-chloropropane	ND	U	0.000233	0.000954	mg/kg	1	10/10/18 19:58
1,2-Dibromoethane	ND	U	0.000120	0.000954	mg/kg	1	10/10/18 19:58
1,2-Dichlorobenzene	ND	U	0.000168	0.000954	mg/kg	1	10/10/18 19:58
1,2-Dichloroethane	ND	U	0.000134	0.000954	mg/kg	1	10/10/18 19:58
1,2-Dichloropropane	ND	U	0.000156	0.000954	mg/kg	1	10/10/18 19:58
1,3-Dichlorobenzene	ND	U	0.0000701	0.000954	mg/kg	1	10/10/18 19:58
1,4-Dichlorobenzene	ND	U	0.000137	0.000954	mg/kg	1	10/10/18 19:58
2-Butanone	ND	U	0.000155	0.00238	mg/kg	1	10/10/18 19:58
2-Hexanone	ND	U	0.0000892	0.000954	mg/kg	1	10/10/18 19:58
4-Methyl-2-pentanone	ND	U	0.000119	0.000954	mg/kg	1	10/10/18 19:58
Acetone	ND	U	0.000289	0.00238	mg/kg	1	10/10/18 19:58
Benzene	ND	U	0.0000868	0.000954	mg/kg	1	10/10/18 19:58
Bromochloromethane	ND	U	0.000176	0.000954	mg/kg	1	10/10/18 19:58
Bromodichloromethane	ND	U	0.000120	0.000954	mg/kg	1	10/10/18 19:58
Bromoform	ND	U	0.000167	0.000954	mg/kg	1	10/10/18 19:58
Bromomethane	ND	U	0.000275	0.000954	mg/kg	1	10/10/18 19:58
Carbon disulfide	ND	U	0.000137	0.000954	mg/kg	1	10/10/18 19:58
Carbon Tetrachloride	ND	U	0.000144	0.000954	mg/kg	1	10/10/18 19:58
Chlorobenzene	ND	U	0.000138	0.000954	mg/kg	1	10/10/18 19:58
Chlorodibromomethane	ND	U	0.000117	0.000954	mg/kg	1	10/10/18 19:58
Chloroethane	ND	U	0.000163	0.000954	mg/kg	1	10/10/18 19:58
Chloroform	ND	U	0.000160	0.000954	mg/kg	1	10/10/18 19:58

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-05 (Soil) Sample Name: **NTP-4B** Collected: **10/10/2018 12:35:00PM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Chloromethane	ND	U	0.000367	0.000954	mg/kg	1	10/10/18 19:58
cis-1,2-Dichloroethene	ND	U	0.0000461	0.000954	mg/kg	1	10/10/18 19:58
cis-1,3-Dichloropropene	ND	U	0.000121	0.000954	mg/kg	1	10/10/18 19:58
Cyclohexane	ND	U	0.000211	0.000954	mg/kg	1	10/10/18 19:58
Dichlorodifluoromethane	ND	U	0.000322	0.000954	mg/kg	1	10/10/18 19:58
EthylBenzene	ND	U	0.000129	0.000954	mg/kg	1	10/10/18 19:58
Isopropylbenzene	ND	U	0.000150	0.000954	mg/kg	1	10/10/18 19:58
m+p-Xylenes	ND	U	0.000241	0.00191	mg/kg	1	10/10/18 19:58
Methyl Acetate	ND	U	0.000126	0.000954	mg/kg	1	10/10/18 19:58
Methyl tert-Butyl Ether	ND	U	0.000161	0.000954	mg/kg	1	10/10/18 19:58
Methylcyclohexane	ND	U	0.000154	0.000954	mg/kg	1	10/10/18 19:58
Methylene Chloride	ND	U	0.000287	0.000954	mg/kg	1	10/10/18 19:58
o-Xylene	ND	U	0.000123	0.000954	mg/kg	1	10/10/18 19:58
Styrene	ND	U	0.000136	0.000954	mg/kg	1	10/10/18 19:58
tert-Butyl alcohol	ND	U	0.00200	0.00954	mg/kg	1	10/10/18 19:58
Tetrachloroethene	ND	U	0.0000944	0.000954	mg/kg	1	10/10/18 19:58
Toluene	ND	U	0.0000768	0.000954	mg/kg	1	10/10/18 19:58
Total Xylenes	ND	U	0.000123	0.000954	mg/kg	1	10/10/18 19:58
trans-1,2-Dichloroethene	ND	U	0.000129	0.000954	mg/kg	1	10/10/18 19:58
trans-1,3-Dichloropropene	ND	U	0.000182	0.000954	mg/kg	1	10/10/18 19:58
Trichloroethene	ND	U	0.000140	0.000954	mg/kg	1	10/10/18 19:58
Trichlorofluoromethane	ND	U	0.000110	0.000954	mg/kg	1	10/10/18 19:58
Vinyl chloride	ND	U	0.000181	0.000954	mg/kg	1	10/10/18 19:58

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**92.0**				**%**	**1**	**10/11/18 10:54**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-06 (Soil) Sample Name: **NTP-6** Collected: **10/10/2018 12:50:00PM**

SW 846 8082A - PCBs

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aroclor-1016	ND	U	0.000670	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1221	ND	U	0.00116	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1232	ND	U	0.000886	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1242	ND	U	0.00128	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1248	ND	U	0.000883	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1254	ND	U	0.00134	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1260	ND	U	0.000992	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1262	ND	U	0.00145	0.0376	mg/kg	1	10/11/18 14:26
Aroclor-1268	ND	U	0.000761	0.0376	mg/kg	1	10/11/18 14:26
Total PCBs	ND	U	0.000670	0.0376	mg/kg	1	10/11/18 14:26

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	11.4	22.8	mg/kg	1	10/11/18 16:00

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0249	0.0508	mg/kg	1	10/11/18 12:04

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**6670**		**0.0631**	**2.94**	**mg/kg**	**1**	**10/11/18 14:42**
Antimony	ND		0.00621	1.47	mg/kg	1	10/11/18 14:42
Arsenic	**1.71**		**0.0141**	**1.47**	**mg/kg**	**1**	**10/11/18 14:42**
Barium	**29.1**		**0.00113**	**0.588**	**mg/kg**	**1**	**10/11/18 14:42**
Beryllium	**0.282**		**0.000106**	**0.0294**	**mg/kg**	**1**	**10/11/18 14:42**
Cadmium	ND		0.00100	0.294	mg/kg	1	10/11/18 14:42
Calcium	**1140**		**0.334**	**29.4**	**mg/kg**	**1**	**10/11/18 14:42**
Chromium	**9.79**		**0.00106**	**0.294**	**mg/kg**	**1**	**10/11/18 14:42**
Cobalt	**3.59**		**0.00128**	**0.235**	**mg/kg**	**1**	**10/11/18 14:42**
Copper	**10.1**		**0.00127**	**0.294**	**mg/kg**	**1**	**10/11/18 14:42**
Iron	**12300**		**0.133**	**5.88**	**mg/kg**	**1**	**10/11/18 14:42**
Lead	**7.82**		**0.00614**	**1.47**	**mg/kg**	**1**	**10/11/18 14:42**
Magnesium	**1290**		**0.856**	**58.8**	**mg/kg**	**1**	**10/11/18 14:42**
Manganese	**176**		**0.000728**	**0.294**	**mg/kg**	**1**	**10/11/18 14:42**
Nickel	**6.47**		**0.00202**	**0.147**	**mg/kg**	**1**	**10/11/18 14:42**
Potassium	**361**		**2.76**	**118**	**mg/kg**	**1**	**10/11/18 14:42**
Selenium	ND		0.0127	1.47	mg/kg	1	10/11/18 14:42
Silver	ND		0.00350	0.588	mg/kg	1	10/11/18 14:42

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-06 (Soil) Sample Name: **NTP-6** Collected: **10/10/2018 12:50:00PM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sodium	**132**		**0.161**	**58.8**	**mg/kg**	**1**	**10/11/18 14:42**
Thallium	ND		0.00815	1.47	mg/kg	1	10/11/18 14:42
Vanadium	**17.4**		**0.0102**	**0.588**	**mg/kg**	**1**	**10/11/18 14:42**
Zinc	**20.9**		**0.00270**	**0.882**	**mg/kg**	**1**	**10/11/18 14:42**

SW 846 8081B - Pesticides

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
4,4'-DDD	ND	U	0.000897	0.00148	mg/kg	1	10/11/18 16:29
4,4'-DDE	ND	U	0.00105	0.00148	mg/kg	1	10/11/18 16:29
4,4'-DDT	ND	U	0.000711	0.00148	mg/kg	1	10/11/18 16:29
Aldrin	ND	U	0.000920	0.00148	mg/kg	1	10/11/18 16:29
alpha-BHC	ND	U	0.000574	0.00148	mg/kg	1	10/11/18 16:29
beta-BHC	ND	U	0.00146	0.00148	mg/kg	1	10/11/18 16:29
Chlordane	ND	U	0.000995	0.00148	mg/kg	1	10/11/18 16:29
delta-BHC	ND	U	0.00115	0.00148	mg/kg	1	10/11/18 16:29
Dieldrin	ND	U	0.000798	0.00148	mg/kg	1	10/11/18 16:29
Endosulfan I	ND	U	0.00103	0.00148	mg/kg	1	10/11/18 16:29
Endosulfan II	ND	U	0.000806	0.00148	mg/kg	1	10/11/18 16:29
Endosulfan sulfate	ND	U	0.000806	0.00148	mg/kg	1	10/11/18 16:29
Endrin	ND	U	0.000761	0.00148	mg/kg	1	10/11/18 16:29
Endrin aldehyde	ND	U	0.000633	0.00148	mg/kg	1	10/11/18 16:29
Endrin ketone	ND	U	0.000904	0.00148	mg/kg	1	10/11/18 16:29
gamma-BHC (Lindane)	ND	U	0.000677	0.00148	mg/kg	1	10/11/18 16:29
Heptachlor	ND	U	0.000867	0.00148	mg/kg	1	10/11/18 16:29
Heptachlor Epoxide	ND	U	0.000927	0.00148	mg/kg	1	10/11/18 16:29
Methoxychlor	ND	U	0.000943	0.00148	mg/kg	1	10/11/18 16:29
Toxaphene	ND	U	0.0230	0.0753	mg/kg	1	10/11/18 16:29

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.0364	0.228	mg/kg	1	10/11/18 16:32
2,3,4,6-Tetrachlorophenol	ND	U	0.0234	0.152	mg/kg	1	10/11/18 16:32
2,4,5-Trichlorophenol	ND	U	0.0206	0.152	mg/kg	1	10/11/18 16:32
2,4,6-Trichlorophenol	ND	U	0.00950	0.152	mg/kg	1	10/11/18 16:32
2,4-Dichlorophenol	ND	U	0.0153	0.152	mg/kg	1	10/11/18 16:32
2,4-Dimethylphenol	ND	U	0.0149	0.152	mg/kg	1	10/11/18 16:32
2,4-Dinitrophenol	ND	U	0.0219	0.761	mg/kg	1	10/11/18 16:32
2,4-Dinitrotoluene	ND	U	0.0162	0.152	mg/kg	1	10/11/18 16:32
2,6-Dinitrotoluene	ND	U	0.0363	0.152	mg/kg	1	10/11/18 16:32

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-06 (Soil) Sample Name: **NTP-6** Collected: **10/10/2018 12:50:00PM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
2-Chloronaphthalene	ND	U	0.0174	0.152	mg/kg	1	10/11/18 16:32
2-Chlorophenol	ND	U	0.0201	0.152	mg/kg	1	10/11/18 16:32
2-Methylnaphthalene	ND	U	0.0364	0.228	mg/kg	1	10/11/18 16:32
2-Methylphenol	ND	U	0.0300	0.152	mg/kg	1	10/11/18 16:32
2-Nitroaniline	ND	U	0.0122	0.152	mg/kg	1	10/11/18 16:32
2-Nitrophenol	ND	U	0.0169	0.152	mg/kg	1	10/11/18 16:32
3,3'-Dichlorobenzidine	ND	U	0.0160	0.152	mg/kg	1	10/11/18 16:32
3+4-Methylphenol	ND	U	0.0278	0.152	mg/kg	1	10/11/18 16:32
3-Nitroaniline	ND	U	0.0282	0.152	mg/kg	1	10/11/18 16:32
4,6-Dinitro-2-methylphenol	ND	U	0.0286	0.380	mg/kg	1	10/11/18 16:32
4-Bromophenyl-phenyl ether	ND	U	0.0217	0.152	mg/kg	1	10/11/18 16:32
4-Chloro-3-methylphenol	ND	U	0.0239	0.152	mg/kg	1	10/11/18 16:32
4-Chloroaniline	ND	U	0.00531	0.152	mg/kg	1	10/11/18 16:32
4-Chlorophenyl phenyl ether	ND	U	0.00820	0.152	mg/kg	1	10/11/18 16:32
4-Nitroaniline	ND	U	0.0759	0.152	mg/kg	1	10/11/18 16:32
4-Nitrophenol	ND	U	0.00971	0.152	mg/kg	1	10/11/18 16:32
Acenaphthene	ND	U	0.00865	0.152	mg/kg	1	10/11/18 16:32
Acenaphthylene	ND	U	0.00528	0.152	mg/kg	1	10/11/18 16:32
Acetophenone	ND	U	0.0151	0.152	mg/kg	1	10/11/18 16:32
Anthracene	ND	U	0.0220	0.152	mg/kg	1	10/11/18 16:32
Atrazine	ND	U	0.0143	0.152	mg/kg	1	10/11/18 16:32
Benzaldehyde	ND	U	0.0466	0.152	mg/kg	1	10/11/18 16:32
Benzo(a)anthracene	ND	U	0.0153	0.152	mg/kg	1	10/11/18 16:32
Benzo(a)pyrene	ND	U	0.0265	0.152	mg/kg	1	10/11/18 16:32
Benzo(b)fluoranthene	ND	U	0.0213	0.152	mg/kg	1	10/11/18 16:32
Benzo(g,h,i)perylene	ND	U	0.0123	0.152	mg/kg	1	10/11/18 16:32
Benzo(k)fluoranthene	ND	U	0.0174	0.152	mg/kg	1	10/11/18 16:32
Biphenyl	ND	U	0.0133	0.152	mg/kg	1	10/11/18 16:32
bis(2-chloroethoxy)methane	ND	U	0.0210	0.152	mg/kg	1	10/11/18 16:32
bis(2-chloroethyl)ether	ND	U	0.0166	0.152	mg/kg	1	10/11/18 16:32
bis(2-chloroisopropyl)ether	ND	U	0.0546	0.152	mg/kg	1	10/11/18 16:32
bis(2-ethylhexyl)phthalate	ND	U	0.0303	0.152	mg/kg	1	10/11/18 16:32
Butylbenzylphthalate	ND	U	0.0138	0.152	mg/kg	1	10/11/18 16:32
Caprolactam	ND	U	0.0196	0.152	mg/kg	1	10/11/18 16:32
Carbazole	ND	U	0.0292	0.380	mg/kg	1	10/11/18 16:32
Chrysene	ND	U	0.0104	0.152	mg/kg	1	10/11/18 16:32
Dibenzo(a,h)anthracene	ND	U	0.0151	0.152	mg/kg	1	10/11/18 16:32
Dibenzofuran	ND	U	0.00904	0.152	mg/kg	1	10/11/18 16:32
Diethylphthalate	ND	U	0.0294	0.152	mg/kg	1	10/11/18 16:32

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-06 (Soil) Sample Name: **NTP-6** Collected: **10/10/2018 12:50:00PM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Dimethylphthalate	**0.0721**	**J**	**0.00942**	**0.152**	**mg/kg**	**1**	**10/11/18 16:32**
Di-n-butylphthalate	ND	U	0.0620	0.152	mg/kg	1	10/11/18 16:32
Di-n-octylphthalate	ND	U	0.0311	0.152	mg/kg	1	10/11/18 16:32
Fluoranthene	ND	U	0.0143	0.152	mg/kg	1	10/11/18 16:32
Fluorene	ND	U	0.0127	0.152	mg/kg	1	10/11/18 16:32
Hexachlorobenzene	ND	U	0.0198	0.152	mg/kg	1	10/11/18 16:32
Hexachlorobutadiene	ND	U	0.0729	0.152	mg/kg	1	10/11/18 16:32
Hexachlorocyclopentadiene	ND	U	0.0633	0.380	mg/kg	1	10/11/18 16:32
Hexachloroethane	ND	U	0.0166	0.152	mg/kg	1	10/11/18 16:32
Indeno(1,2,3-cd)pyrene	ND	U	0.0163	0.152	mg/kg	1	10/11/18 16:32
Isophorone	ND	U	0.00994	0.152	mg/kg	1	10/11/18 16:32
Naphthalene	ND	U	0.0112	0.152	mg/kg	1	10/11/18 16:32
Nitrobenzene	ND	U	0.0258	0.152	mg/kg	1	10/11/18 16:32
n-Nitroso-di-n-propylamine	ND	U	0.00813	0.152	mg/kg	1	10/11/18 16:32
n-Nitrosodiphenylamine	ND	U	0.0324	0.152	mg/kg	1	10/11/18 16:32
Phenanthrene	ND	U	0.0200	0.152	mg/kg	1	10/11/18 16:32
Phenol	ND	U	0.0123	0.152	mg/kg	1	10/11/18 16:32
Pyrene	ND	U	0.0112	0.152	mg/kg	1	10/11/18 16:32

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed

No TICs Found

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000166	0.00114	mg/kg	1	10/10/18 20:28
1,1,2,2-Tetrachloroethane	ND	U	0.000157	0.00114	mg/kg	1	10/10/18 20:28
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000488	0.00114	mg/kg	1	10/10/18 20:28
1,1,2-Trichloroethane	ND	U	0.000192	0.00114	mg/kg	1	10/10/18 20:28
1,1-Dichloroethane	ND	U	0.000166	0.00114	mg/kg	1	10/10/18 20:28
1,1-Dichloroethene	ND	U	0.000211	0.00114	mg/kg	1	10/10/18 20:28
1,2,3-Trichlorobenzene	ND	U	0.000246	0.00114	mg/kg	1	10/10/18 20:28
1,2,4-Trichlorobenzene	ND	U	0.000304	0.00114	mg/kg	1	10/10/18 20:28
1,2,4-Trimethylbenzene	ND	U	0.000157	0.00114	mg/kg	1	10/10/18 20:28
1,2-Dibromo-3-chloropropane	ND	U	0.000278	0.00114	mg/kg	1	10/10/18 20:28
1,2-Dibromoethane	ND	U	0.000144	0.00114	mg/kg	1	10/10/18 20:28
1,2-Dichlorobenzene	ND	U	0.000201	0.00114	mg/kg	1	10/10/18 20:28
1,2-Dichloroethane	ND	U	0.000161	0.00114	mg/kg	1	10/10/18 20:28

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-06 (Soil) Sample Name: **NTP-6** Collected: **10/10/2018 12:50:00PM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,2-Dichloropropane	ND	U	0.000187	0.00114	mg/kg	1	10/10/18 20:28
1,3-Dichlorobenzene	ND	U	0.0000838	0.00114	mg/kg	1	10/10/18 20:28
1,4-Dichlorobenzene	ND	U	0.000164	0.00114	mg/kg	1	10/10/18 20:28
2-Butanone	ND	U	0.000186	0.00285	mg/kg	1	10/10/18 20:28
2-Hexanone	ND	U	0.000107	0.00114	mg/kg	1	10/10/18 20:28
4-Methyl-2-pentanone	ND	U	0.000143	0.00114	mg/kg	1	10/10/18 20:28
Acetone	ND	U	0.000345	0.00285	mg/kg	1	10/10/18 20:28
Benzene	ND	U	0.000104	0.00114	mg/kg	1	10/10/18 20:28
Bromochloromethane	ND	U	0.000210	0.00114	mg/kg	1	10/10/18 20:28
Bromodichloromethane	ND	U	0.000143	0.00114	mg/kg	1	10/10/18 20:28
Bromoform	ND	U	0.000200	0.00114	mg/kg	1	10/10/18 20:28
Bromomethane	ND	U	0.000329	0.00114	mg/kg	1	10/10/18 20:28
Carbon disulfide	ND	U	0.000164	0.00114	mg/kg	1	10/10/18 20:28
Carbon Tetrachloride	ND	U	0.000172	0.00114	mg/kg	1	10/10/18 20:28
Chlorobenzene	ND	U	0.000165	0.00114	mg/kg	1	10/10/18 20:28
Chlorodibromomethane	ND	U	0.000140	0.00114	mg/kg	1	10/10/18 20:28
Chloroethane	ND	U	0.000194	0.00114	mg/kg	1	10/10/18 20:28
Chloroform	ND	U	0.000192	0.00114	mg/kg	1	10/10/18 20:28
Chloromethane	ND	U	0.000439	0.00114	mg/kg	1	10/10/18 20:28
cis-1,2-Dichloroethene	ND	U	0.0000551	0.00114	mg/kg	1	10/10/18 20:28
cis-1,3-Dichloropropene	ND	U	0.000144	0.00114	mg/kg	1	10/10/18 20:28
Cyclohexane	ND	U	0.000253	0.00114	mg/kg	1	10/10/18 20:28
Dichlorodifluoromethane	ND	U	0.000385	0.00114	mg/kg	1	10/10/18 20:28
EthylBenzene	ND	U	0.000154	0.00114	mg/kg	1	10/10/18 20:28
Isopropylbenzene	ND	U	0.000179	0.00114	mg/kg	1	10/10/18 20:28
m+p-Xylenes	ND	U	0.000288	0.00228	mg/kg	1	10/10/18 20:28
Methyl Acetate	ND	U	0.000151	0.00114	mg/kg	1	10/10/18 20:28
Methyl tert-Butyl Ether	ND	U	0.000193	0.00114	mg/kg	1	10/10/18 20:28
Methylcyclohexane	ND	U	0.000184	0.00114	mg/kg	1	10/10/18 20:28
Methylene Chloride	ND	U	0.000343	0.00114	mg/kg	1	10/10/18 20:28
o-Xylene	ND	U	0.000147	0.00114	mg/kg	1	10/10/18 20:28
Styrene	ND	U	0.000163	0.00114	mg/kg	1	10/10/18 20:28
tert-Butyl alcohol	ND	U	0.00239	0.0114	mg/kg	1	10/10/18 20:28
Tetrachloroethene	ND	U	0.000113	0.00114	mg/kg	1	10/10/18 20:28
Toluene	ND	U	0.0000918	0.00114	mg/kg	1	10/10/18 20:28
Total Xylenes	ND	U	0.000147	0.00114	mg/kg	1	10/10/18 20:28
trans-1,2-Dichloroethene	ND	U	0.000154	0.00114	mg/kg	1	10/10/18 20:28
trans-1,3-Dichloropropene	ND	U	0.000218	0.00114	mg/kg	1	10/10/18 20:28
Trichloroethene	ND	U	0.000168	0.00114	mg/kg	1	10/10/18 20:28

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-06 (Soil) Sample Name: NTP-6 Collected: 10/10/2018 12:50:00PM

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Trichlorofluoromethane	ND	U	0.000131	0.00114	mg/kg	1	10/10/18 20:28
Vinyl chloride	ND	U	0.000217	0.00114	mg/kg	1	10/10/18 20:28

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**87.7**				**%**	**1**	**10/11/18 10:54**

SW 846 9014 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Cyanide	ND		0.0855	0.285	mg/kg	1	10/11/18 13:30

8100452-07 (Soil) Sample Name: NTP-7 Collected: 10/10/2018 1:00:00PM

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	**65.8**		**10.9**	**21.9**	**mg/kg**	**1**	**10/11/18 16:35**

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0235	0.0479	mg/kg	1	10/11/18 12:43

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**4450**		**0.0582**	**2.71**	**mg/kg**	**1**	**10/11/18 14:44**
Antimony	ND		0.00572	1.35	mg/kg	1	10/11/18 14:44
Arsenic	ND		0.0130	1.35	mg/kg	1	10/11/18 14:44
Barium	**21.4**		**0.00104**	**0.542**	**mg/kg**	**1**	**10/11/18 14:44**
Beryllium	**0.160**		**0.0000978**	**0.0271**	**mg/kg**	**1**	**10/11/18 14:44**
Cadmium	ND		0.000923	0.271	mg/kg	1	10/11/18 14:44
Calcium	**1080**		**0.308**	**27.1**	**mg/kg**	**1**	**10/11/18 14:44**
Chromium	**6.67**		**0.000974**	**0.271**	**mg/kg**	**1**	**10/11/18 14:44**
Cobalt	**3.01**		**0.00118**	**0.217**	**mg/kg**	**1**	**10/11/18 14:44**
Copper	**8.67**		**0.00117**	**0.271**	**mg/kg**	**1**	**10/11/18 14:44**
Iron	**8450**		**0.122**	**5.42**	**mg/kg**	**1**	**10/11/18 14:44**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-07 (Soil) Sample Name: **NTP-7** Collected: **10/10/2018 1:00:00PM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Lead	**11.3**		**0.00566**	**1.35**	**mg/kg**	**1**	**10/11/18 14:44**
Magnesium	**1090**		**0.789**	**54.2**	**mg/kg**	**1**	**10/11/18 14:44**
Manganese	**145**		**0.000671**	**0.271**	**mg/kg**	**1**	**10/11/18 14:44**
Nickel	**5.23**		**0.00186**	**0.135**	**mg/kg**	**1**	**10/11/18 14:44**
Potassium	**230**		**2.55**	**108**	**mg/kg**	**1**	**10/11/18 14:44**
Selenium	ND		0.0117	1.35	mg/kg	1	10/11/18 14:44
Silver	ND		0.00323	0.542	mg/kg	1	10/11/18 14:44
Sodium	**160**		**0.148**	**54.2**	**mg/kg**	**1**	**10/11/18 14:44**
Thallium	ND		0.00751	1.35	mg/kg	1	10/11/18 14:44
Vanadium	**12.8**		**0.00939**	**0.542**	**mg/kg**	**1**	**10/11/18 14:44**
Zinc	**21.1**		**0.00249**	**0.813**	**mg/kg**	**1**	**10/11/18 14:44**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.122	0.219	mg/kg	1	10/11/18 17:01
2-Methylnaphthalene	ND	U	0.0349	0.219	mg/kg	1	10/11/18 17:01
Acenaphthene	ND	U	0.00831	0.146	mg/kg	1	10/11/18 17:01
Acenaphthylene	ND	U	0.00507	0.146	mg/kg	1	10/11/18 17:01
Anthracene	ND	U	0.0211	0.146	mg/kg	1	10/11/18 17:01
Benzo(a)anthracene	**0.133**	**J**	**0.0147**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Benzo(a)pyrene	**0.105**	**J**	**0.0254**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Benzo(b)fluoranthene	**0.169**		**0.0205**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Benzo(g,h,i)perylene	**0.124**	**J**	**0.0118**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Benzo(k)fluoranthene	**0.106**	**J**	**0.0167**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Chrysene	**0.134**	**J**	**0.00998**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Dibenzo(a,h)anthracene	ND	U	0.0144	0.146	mg/kg	1	10/11/18 17:01
Fluoranthene	**0.193**		**0.0137**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Fluorene	ND	U	0.0122	0.146	mg/kg	1	10/11/18 17:01
Indeno(1,2,3-cd)pyrene	ND	U	0.0157	0.146	mg/kg	1	10/11/18 17:01
Naphthalene	ND	U	0.0108	0.146	mg/kg	1	10/11/18 17:01
Phenanthrene	**0.0964**	**J**	**0.0192**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**
Pyrene	**0.184**		**0.0107**	**0.146**	**mg/kg**	**1**	**10/11/18 17:01**

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000155	0.00106	mg/kg	1	10/10/18 21:02
1,1,2,2-Tetrachloroethane	ND	U	0.000147	0.00106	mg/kg	1	10/10/18 21:02
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000455	0.00106	mg/kg	1	10/10/18 21:02

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-07 (Soil) Sample Name: **NTP-7** Collected: **10/10/2018 1:00:00PM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,2-Trichloroethane	ND	U	0.000179	0.00106	mg/kg	1	10/10/18 21:02
1,1-Dichloroethane	ND	U	0.000155	0.00106	mg/kg	1	10/10/18 21:02
1,1-Dichloroethene	ND	U	0.000197	0.00106	mg/kg	1	10/10/18 21:02
1,2,3-Trichlorobenzene	ND	U	0.000230	0.00106	mg/kg	1	10/10/18 21:02
1,2,4-Trichlorobenzene	ND	U	0.000283	0.00106	mg/kg	1	10/10/18 21:02
1,2,4-Trimethylbenzene	ND	U	0.000147	0.00106	mg/kg	1	10/10/18 21:02
1,2-Dibromo-3-chloropropane	ND	U	0.000259	0.00106	mg/kg	1	10/10/18 21:02
1,2-Dibromoethane	ND	U	0.000134	0.00106	mg/kg	1	10/10/18 21:02
1,2-Dichlorobenzene	ND	U	0.000188	0.00106	mg/kg	1	10/10/18 21:02
1,2-Dichloroethane	ND	U	0.000150	0.00106	mg/kg	1	10/10/18 21:02
1,2-Dichloropropane	ND	U	0.000174	0.00106	mg/kg	1	10/10/18 21:02
1,3-Dichlorobenzene	ND	U	0.0000781	0.00106	mg/kg	1	10/10/18 21:02
1,4-Dichlorobenzene	ND	U	0.000153	0.00106	mg/kg	1	10/10/18 21:02
2-Butanone	ND	U	0.000173	0.00266	mg/kg	1	10/10/18 21:02
2-Hexanone	ND	U	0.0000994	0.00106	mg/kg	1	10/10/18 21:02
4-Methyl-2-pentanone	ND	U	0.000133	0.00106	mg/kg	1	10/10/18 21:02
Acetone	ND	U	0.000322	0.00266	mg/kg	1	10/10/18 21:02
Benzene	ND	U	0.0000967	0.00106	mg/kg	1	10/10/18 21:02
Bromochloromethane	ND	U	0.000196	0.00106	mg/kg	1	10/10/18 21:02
Bromodichloromethane	ND	U	0.000133	0.00106	mg/kg	1	10/10/18 21:02
Bromoform	ND	U	0.000187	0.00106	mg/kg	1	10/10/18 21:02
Bromomethane	ND	U	0.000307	0.00106	mg/kg	1	10/10/18 21:02
Carbon disulfide	ND	U	0.000153	0.00106	mg/kg	1	10/10/18 21:02
Carbon Tetrachloride	ND	U	0.000160	0.00106	mg/kg	1	10/10/18 21:02
Chlorobenzene	ND	U	0.000154	0.00106	mg/kg	1	10/10/18 21:02
Chlorodibromomethane	ND	U	0.000131	0.00106	mg/kg	1	10/10/18 21:02
Chloroethane	ND	U	0.000181	0.00106	mg/kg	1	10/10/18 21:02
Chloroform	ND	U	0.000179	0.00106	mg/kg	1	10/10/18 21:02
Chloromethane	ND	U	0.000409	0.00106	mg/kg	1	10/10/18 21:02
cis-1,2-Dichloroethene	ND	U	0.0000514	0.00106	mg/kg	1	10/10/18 21:02
cis-1,3-Dichloropropene	ND	U	0.000134	0.00106	mg/kg	1	10/10/18 21:02
Cyclohexane	ND	U	0.000235	0.00106	mg/kg	1	10/10/18 21:02
Dichlorodifluoromethane	ND	U	0.000359	0.00106	mg/kg	1	10/10/18 21:02
EthylBenzene	ND	U	0.000144	0.00106	mg/kg	1	10/10/18 21:02
Isopropylbenzene	ND	U	0.000167	0.00106	mg/kg	1	10/10/18 21:02
m+p-Xylenes	ND	U	0.000268	0.00213	mg/kg	1	10/10/18 21:02
Methyl Acetate	ND	U	0.000141	0.00106	mg/kg	1	10/10/18 21:02
Methyl tert-Butyl Ether	ND	U	0.000180	0.00106	mg/kg	1	10/10/18 21:02
Methylcyclohexane	ND	U	0.000171	0.00106	mg/kg	1	10/10/18 21:02

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-07 (Soil) Sample Name: NTP-7 Collected: 10/10/2018 1:00:00PM

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Methylene Chloride	ND	U	0.000319	0.00106	mg/kg	1	10/10/18 21:02
o-Xylene	ND	U	0.000137	0.00106	mg/kg	1	10/10/18 21:02
Styrene	ND	U	0.000152	0.00106	mg/kg	1	10/10/18 21:02
tert-Butyl alcohol	ND	U	0.00223	0.0106	mg/kg	1	10/10/18 21:02
Tetrachloroethene	ND	U	0.000105	0.00106	mg/kg	1	10/10/18 21:02
Toluene	ND	U	0.0000856	0.00106	mg/kg	1	10/10/18 21:02
Total Xylenes	ND	U	0.000137	0.00106	mg/kg	1	10/10/18 21:02
trans-1,2-Dichloroethene	ND	U	0.000144	0.00106	mg/kg	1	10/10/18 21:02
trans-1,3-Dichloropropene	ND	U	0.000203	0.00106	mg/kg	1	10/10/18 21:02
Trichloroethene	ND	U	0.000156	0.00106	mg/kg	1	10/10/18 21:02
Trichlorofluoromethane	ND	U	0.000122	0.00106	mg/kg	1	10/10/18 21:02
Vinyl chloride	ND	U	0.000202	0.00106	mg/kg	1	10/10/18 21:02

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**91.4**				**%**	**1**	**10/11/18 10:54**

8100452-08 (Soil) Sample Name: STP-1B Collected: 10/10/2018 1:15:00PM

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	11.2	22.3	mg/kg	1	10/11/18 17:10

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0224	0.0457	mg/kg	1	10/11/18 12:46

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**5040**		**0.0576**	**2.68**	**mg/kg**	**1**	**10/11/18 14:46**
Antimony	ND		0.00567	1.34	mg/kg	1	10/11/18 14:46
Arsenic	ND		0.0129	1.34	mg/kg	1	10/11/18 14:46
Barium	**20.2**		**0.00103**	**0.537**	**mg/kg**	**1**	**10/11/18 14:46**
Beryllium	**0.191**		**0.0000968**	**0.0268**	**mg/kg**	**1**	**10/11/18 14:46**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-08 (Soil) Sample Name: **STP-1B** Collected: **10/10/2018 1:15:00PM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Cadmium	ND		0.000914	0.268	mg/kg	1	10/11/18 14:46
Calcium	**453**		**0.305**	**26.8**	**mg/kg**	**1**	**10/11/18 14:46**
Chromium	**7.08**		**0.000965**	**0.268**	**mg/kg**	**1**	**10/11/18 14:46**
Cobalt	**3.03**		**0.00117**	**0.215**	**mg/kg**	**1**	**10/11/18 14:46**
Copper	**7.22**		**0.00116**	**0.268**	**mg/kg**	**1**	**10/11/18 14:46**
Iron	**9500**		**0.121**	**5.37**	**mg/kg**	**1**	**10/11/18 14:46**
Lead	**4.88**		**0.00560**	**1.34**	**mg/kg**	**1**	**10/11/18 14:46**
Magnesium	**966**		**0.781**	**53.7**	**mg/kg**	**1**	**10/11/18 14:46**
Manganese	**144**		**0.000664**	**0.268**	**mg/kg**	**1**	**10/11/18 14:46**
Nickel	**5.18**		**0.00185**	**0.134**	**mg/kg**	**1**	**10/11/18 14:46**
Potassium	**260**		**2.52**	**107**	**mg/kg**	**1**	**10/11/18 14:46**
Selenium	ND		0.0116	1.34	mg/kg	1	10/11/18 14:46
Silver	ND		0.00320	0.537	mg/kg	1	10/11/18 14:46
Sodium	**72.2**		**0.147**	**53.7**	**mg/kg**	**1**	**10/11/18 14:46**
Thallium	ND		0.00744	1.34	mg/kg	1	10/11/18 14:46
Vanadium	**13.0**		**0.00929**	**0.537**	**mg/kg**	**1**	**10/11/18 14:46**
Zinc	**23.5**		**0.00247**	**0.805**	**mg/kg**	**1**	**10/11/18 14:46**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.124	0.223	mg/kg	1	10/11/18 17:29
2-Methylnaphthalene	ND	U	0.0356	0.223	mg/kg	1	10/11/18 17:29
Acenaphthene	ND	U	0.00847	0.148	mg/kg	1	10/11/18 17:29
Acenaphthylene	ND	U	0.00517	0.148	mg/kg	1	10/11/18 17:29
Anthracene	ND	U	0.0215	0.148	mg/kg	1	10/11/18 17:29
Benzo(a)anthracene	ND	U	0.0150	0.148	mg/kg	1	10/11/18 17:29
Benzo(a)pyrene	ND	U	0.0259	0.148	mg/kg	1	10/11/18 17:29
Benzo(b)fluoranthene	ND	U	0.0209	0.148	mg/kg	1	10/11/18 17:29
Benzo(g,h,i)perylene	ND	U	0.0121	0.148	mg/kg	1	10/11/18 17:29
Benzo(k)fluoranthene	ND	U	0.0171	0.148	mg/kg	1	10/11/18 17:29
Chrysene	ND	U	0.0102	0.148	mg/kg	1	10/11/18 17:29
Dibenzo(a,h)anthracene	ND	U	0.0147	0.148	mg/kg	1	10/11/18 17:29
Fluoranthene	ND	U	0.0140	0.148	mg/kg	1	10/11/18 17:29
Fluorene	ND	U	0.0124	0.148	mg/kg	1	10/11/18 17:29
Indeno(1,2,3-cd)pyrene	ND	U	0.0160	0.148	mg/kg	1	10/11/18 17:29
Naphthalene	ND	U	0.0110	0.148	mg/kg	1	10/11/18 17:29
Phenanthrene	ND	U	0.0195	0.148	mg/kg	1	10/11/18 17:29
Pyrene	ND	U	0.0109	0.148	mg/kg	1	10/11/18 17:29

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-08 (Soil) Sample Name: **STP-1B** Collected: **10/10/2018 1:15:00PM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000397	0.00272	mg/kg	1	10/11/18 13:34
1,1,2,2-Tetrachloroethane	ND	U	0.000376	0.00272	mg/kg	1	10/11/18 13:34
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.00117	0.00272	mg/kg	1	10/11/18 13:34
1,1,2-Trichloroethane	ND	U	0.000459	0.00272	mg/kg	1	10/11/18 13:34
1,1-Dichloroethane	ND	U	0.000397	0.00272	mg/kg	1	10/11/18 13:34
1,1-Dichloroethene	ND	U	0.000504	0.00272	mg/kg	1	10/11/18 13:34
1,2,3-Trichlorobenzene	ND	U	0.000588	0.00272	mg/kg	1	10/11/18 13:34
1,2,4-Trichlorobenzene	ND	U	0.000726	0.00272	mg/kg	1	10/11/18 13:34
1,2,4-Trimethylbenzene	ND	U	0.000376	0.00272	mg/kg	1	10/11/18 13:34
1,2-Dibromo-3-chloropropane	ND	U	0.000664	0.00272	mg/kg	1	10/11/18 13:34
1,2-Dibromoethane	ND	U	0.000343	0.00272	mg/kg	1	10/11/18 13:34
1,2-Dichlorobenzene	ND	U	0.000481	0.00272	mg/kg	1	10/11/18 13:34
1,2-Dichloroethane	ND	U	0.000384	0.00272	mg/kg	1	10/11/18 13:34
1,2-Dichloropropane	ND	U	0.000446	0.00272	mg/kg	1	10/11/18 13:34
1,3-Dichlorobenzene	ND	U	0.000200	0.00272	mg/kg	1	10/11/18 13:34
1,4-Dichlorobenzene	ND	U	0.000392	0.00272	mg/kg	1	10/11/18 13:34
2-Butanone	ND	U	0.000444	0.00681	mg/kg	1	10/11/18 13:34
2-Hexanone	ND	U	0.000255	0.00272	mg/kg	1	10/11/18 13:34
4-Methyl-2-pentanone	ND	U	0.000340	0.00272	mg/kg	1	10/11/18 13:34
Acetone	ND	U	0.000825	0.00681	mg/kg	1	10/11/18 13:34
Benzene	ND	U	0.000248	0.00272	mg/kg	1	10/11/18 13:34
Bromochloromethane	ND	U	0.000502	0.00272	mg/kg	1	10/11/18 13:34
Bromodichloromethane	ND	U	0.000342	0.00272	mg/kg	1	10/11/18 13:34
Bromoform	ND	U	0.000478	0.00272	mg/kg	1	10/11/18 13:34
Bromomethane	ND	U	0.000785	0.00272	mg/kg	1	10/11/18 13:34
Carbon disulfide	ND	U	0.000391	0.00272	mg/kg	1	10/11/18 13:34
Carbon Tetrachloride	ND	U	0.000410	0.00272	mg/kg	1	10/11/18 13:34
Chlorobenzene	ND	U	0.000395	0.00272	mg/kg	1	10/11/18 13:34
Chlorodibromomethane	ND	U	0.000335	0.00272	mg/kg	1	10/11/18 13:34
Chloroethane	ND	U	0.000464	0.00272	mg/kg	1	10/11/18 13:34
Chloroform	ND	U	0.000457	0.00272	mg/kg	1	10/11/18 13:34
Chloromethane	ND	U	0.00105	0.00272	mg/kg	1	10/11/18 13:34
cis-1,2-Dichloroethene	ND	U	0.000132	0.00272	mg/kg	1	10/11/18 13:34
cis-1,3-Dichloropropene	ND	U	0.000344	0.00272	mg/kg	1	10/11/18 13:34
Cyclohexane	ND	U	0.000603	0.00272	mg/kg	1	10/11/18 13:34
Dichlorodifluoromethane	ND	U	0.000919	0.00272	mg/kg	1	10/11/18 13:34
EthylBenzene	ND	U	0.000369	0.00272	mg/kg	1	10/11/18 13:34
Isopropylbenzene	ND	U	0.000427	0.00272	mg/kg	1	10/11/18 13:34

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-08 (Soil) Sample Name: **STP-1B** Collected: **10/10/2018 1:15:00PM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
m+p-Xylenes	ND	U	0.000687	0.00544	mg/kg	1	10/11/18 13:34
Methyl Acetate	ND	U	0.000361	0.00272	mg/kg	1	10/11/18 13:34
Methyl tert-Butyl Ether	ND	U	0.000460	0.00272	mg/kg	1	10/11/18 13:34
Methylcyclohexane	ND	U	0.000438	0.00272	mg/kg	1	10/11/18 13:34
Methylene Chloride	ND	U	0.000818	0.00272	mg/kg	1	10/11/18 13:34
o-Xylene	ND	U	0.000350	0.00272	mg/kg	1	10/11/18 13:34
Styrene	ND	U	0.000389	0.00272	mg/kg	1	10/11/18 13:34
tert-Butyl alcohol	ND	U	0.00572	0.0272	mg/kg	1	10/11/18 13:34
Tetrachloroethene	ND	U	0.000270	0.00272	mg/kg	1	10/11/18 13:34
Toluene	ND	U	0.000219	0.00272	mg/kg	1	10/11/18 13:34
Total Xylenes	ND	U	0.000350	0.00272	mg/kg	1	10/11/18 13:34
trans-1,2-Dichloroethene	ND	U	0.000369	0.00272	mg/kg	1	10/11/18 13:34
trans-1,3-Dichloropropene	ND	U	0.000520	0.00272	mg/kg	1	10/11/18 13:34
Trichloroethene	ND	U	0.000400	0.00272	mg/kg	1	10/11/18 13:34
Trichlorofluoromethane	ND	U	0.000313	0.00272	mg/kg	1	10/11/18 13:34
Vinyl chloride	ND	U	0.000517	0.00272	mg/kg	1	10/11/18 13:34

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**89.6**				**%**	**1**	**10/11/18 10:54**

8100452-09 (Soil) Sample Name: **STP-2B** Collected: **10/10/2018 1:30:00PM**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.9	21.8	mg/kg	1	10/12/18 11:28

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0252	0.0514	mg/kg	1	10/11/18 12:49

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-09 (Soil) Sample Name: **STP-2B** Collected: **10/10/2018 1:30:00PM**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**5700**		**0.0631**	**2.94**	**mg/kg**	**1**	**10/11/18 14:48**
Antimony	ND		0.00620	1.47	mg/kg	1	10/11/18 14:48
Arsenic	ND		0.0141	1.47	mg/kg	1	10/11/18 14:48
Barium	**23.4**		**0.00113**	**0.587**	**mg/kg**	**1**	**10/11/18 14:48**
Beryllium	**0.223**		**0.000106**	**0.0294**	**mg/kg**	**1**	**10/11/18 14:48**
Cadmium	ND		0.00100	0.294	mg/kg	1	10/11/18 14:48
Calcium	**473**		**0.334**	**29.4**	**mg/kg**	**1**	**10/11/18 14:48**
Chromium	**7.63**		**0.00106**	**0.294**	**mg/kg**	**1**	**10/11/18 14:48**
Cobalt	**3.23**		**0.00128**	**0.235**	**mg/kg**	**1**	**10/11/18 14:48**
Copper	**8.57**		**0.00127**	**0.294**	**mg/kg**	**1**	**10/11/18 14:48**
Iron	**11100**		**0.133**	**5.87**	**mg/kg**	**1**	**10/11/18 14:48**
Lead	**6.05**		**0.00613**	**1.47**	**mg/kg**	**1**	**10/11/18 14:48**
Magnesium	**1070**		**0.855**	**58.7**	**mg/kg**	**1**	**10/11/18 14:48**
Manganese	**187**		**0.000727**	**0.294**	**mg/kg**	**1**	**10/11/18 14:48**
Nickel	**5.76**		**0.00202**	**0.147**	**mg/kg**	**1**	**10/11/18 14:48**
Potassium	**271**		**2.76**	**117**	**mg/kg**	**1**	**10/11/18 14:48**
Selenium	ND		0.0127	1.47	mg/kg	1	10/11/18 14:48
Silver	ND		0.00350	0.587	mg/kg	1	10/11/18 14:48
Sodium	**74.3**		**0.161**	**58.7**	**mg/kg**	**1**	**10/11/18 14:48**
Thallium	ND		0.00814	1.47	mg/kg	1	10/11/18 14:48
Vanadium	**13.9**		**0.0102**	**0.587**	**mg/kg**	**1**	**10/11/18 14:48**
Zinc	**38.2**		**0.00270**	**0.881**	**mg/kg**	**1**	**10/11/18 14:48**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.121	0.218	mg/kg	1	10/11/18 17:26
2-Methylnaphthalene	ND	U	0.0348	0.218	mg/kg	1	10/11/18 17:26
Acenaphthene	ND	U	0.00829	0.145	mg/kg	1	10/11/18 17:26
Acenaphthylene	ND	U	0.00506	0.145	mg/kg	1	10/11/18 17:26
Anthracene	ND	U	0.0211	0.145	mg/kg	1	10/11/18 17:26
Benzo(a)anthracene	ND	U	0.0146	0.145	mg/kg	1	10/11/18 17:26
Benzo(a)pyrene	ND	U	0.0253	0.145	mg/kg	1	10/11/18 17:26
Benzo(b)fluoranthene	ND	U	0.0204	0.145	mg/kg	1	10/11/18 17:26
Benzo(g,h,i)perylene	ND	U	0.0118	0.145	mg/kg	1	10/11/18 17:26
Benzo(k)fluoranthene	ND	U	0.0167	0.145	mg/kg	1	10/11/18 17:26
Chrysene	ND	U	0.00996	0.145	mg/kg	1	10/11/18 17:26
Dibenzo(a,h)anthracene	ND	U	0.0144	0.145	mg/kg	1	10/11/18 17:26
Fluoranthene	ND	U	0.0137	0.145	mg/kg	1	10/11/18 17:26
Fluorene	ND	U	0.0121	0.145	mg/kg	1	10/11/18 17:26

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-09 (Soil) Sample Name: **STP-2B** Collected: **10/10/2018 1:30:00PM**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Indeno(1,2,3-cd)pyrene	ND	U	0.0156	0.145	mg/kg	1	10/11/18 17:26
Naphthalene	ND	U	0.0108	0.145	mg/kg	1	10/11/18 17:26
Phenanthrene	ND	U	0.0191	0.145	mg/kg	1	10/11/18 17:26
Pyrene	ND	U	0.0107	0.145	mg/kg	1	10/11/18 17:26

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**91.5**				**%**	**1**	**10/11/18 10:54**

8100452-10 (Soil) Sample Name: **STP-3B** Collected: **10/10/2018 1:40:00PM**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.9	21.9	mg/kg	1	10/12/18 12:03

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	**0.0562**		**0.0235**	**0.0478**	**mg/kg**	**1**	**10/11/18 12:53**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**4900**		**0.0556**	**2.59**	**mg/kg**	**1**	**10/11/18 14:50**
Antimony	ND		0.00547	1.29	mg/kg	1	10/11/18 14:50
Arsenic	**1.65**		**0.0124**	**1.29**	**mg/kg**	**1**	**10/11/18 14:50**
Barium	**19.4**		**0.000998**	**0.518**	**mg/kg**	**1**	**10/11/18 14:50**
Beryllium	**0.184**		**0.0000934**	**0.0259**	**mg/kg**	**1**	**10/11/18 14:50**
Cadmium	ND		0.000882	0.259	mg/kg	1	10/11/18 14:50
Calcium	**463**		**0.294**	**25.9**	**mg/kg**	**1**	**10/11/18 14:50**
Chromium	**6.68**		**0.000931**	**0.259**	**mg/kg**	**1**	**10/11/18 14:50**
Cobalt	**2.90**		**0.00113**	**0.207**	**mg/kg**	**1**	**10/11/18 14:50**
Copper	**7.66**		**0.00112**	**0.259**	**mg/kg**	**1**	**10/11/18 14:50**
Iron	**9550**		**0.117**	**5.18**	**mg/kg**	**1**	**10/11/18 14:50**
Lead	**6.01**		**0.00541**	**1.29**	**mg/kg**	**1**	**10/11/18 14:50**
Magnesium	**977**		**0.754**	**51.8**	**mg/kg**	**1**	**10/11/18 14:50**
Manganese	**163**		**0.000641**	**0.259**	**mg/kg**	**1**	**10/11/18 14:50**
Nickel	**5.18**		**0.00178**	**0.129**	**mg/kg**	**1**	**10/11/18 14:50**
Potassium	**272**		**2.43**	**104**	**mg/kg**	**1**	**10/11/18 14:50**
Selenium	ND		0.0112	1.29	mg/kg	1	10/11/18 14:50

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-10 (Soil) Sample Name: **STP-3B** Collected: **10/10/2018 1:40:00PM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Silver	ND		0.00309	0.518	mg/kg	1	10/11/18 14:50
Sodium	**74.0**		**0.142**	**51.8**	**mg/kg**	**1**	**10/11/18 14:50**
Thallium	ND		0.00718	1.29	mg/kg	1	10/11/18 14:50
Vanadium	**12.7**		**0.00897**	**0.518**	**mg/kg**	**1**	**10/11/18 14:50**
Zinc	**21.0**		**0.00238**	**0.777**	**mg/kg**	**1**	**10/11/18 14:50**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.121	0.219	mg/kg	1	10/11/18 14:58
2-Methylnaphthalene	ND	U	0.0349	0.219	mg/kg	1	10/11/18 14:58
Acenaphthene	ND	U	0.00829	0.145	mg/kg	1	10/11/18 14:58
Acenaphthylene	ND	U	0.00506	0.145	mg/kg	1	10/11/18 14:58
Anthracene	ND	U	0.0211	0.145	mg/kg	1	10/11/18 14:58
Benzo(a)anthracene	ND	U	0.0146	0.145	mg/kg	1	10/11/18 14:58
Benzo(a)pyrene	ND	U	0.0253	0.145	mg/kg	1	10/11/18 14:58
Benzo(b)fluoranthene	ND	U	0.0204	0.145	mg/kg	1	10/11/18 14:58
Benzo(g,h,i)perylene	ND	U	0.0118	0.145	mg/kg	1	10/11/18 14:58
Benzo(k)fluoranthene	ND	U	0.0167	0.145	mg/kg	1	10/11/18 14:58
Chrysene	ND	U	0.00996	0.145	mg/kg	1	10/11/18 14:58
Dibenzo(a,h)anthracene	ND	U	0.0144	0.145	mg/kg	1	10/11/18 14:58
Fluoranthene	ND	U	0.0137	0.145	mg/kg	1	10/11/18 14:58
Fluorene	ND	U	0.0121	0.145	mg/kg	1	10/11/18 14:58
Indeno(1,2,3-cd)pyrene	ND	U	0.0156	0.145	mg/kg	1	10/11/18 14:58
Naphthalene	ND	U	0.0108	0.145	mg/kg	1	10/11/18 14:58
Phenanthrene	ND	U	0.0191	0.145	mg/kg	1	10/11/18 14:58
Pyrene	ND	U	0.0107	0.145	mg/kg	1	10/11/18 14:58

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**91.5**				**%**	**1**	**10/11/18 10:54**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

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All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-11 (Soil) Sample Name: **STP-4A** Collected: **10/10/2018 12:00:00AM**

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	11.0	22.1	mg/kg	1	10/12/18 12:38

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0265	0.0540	mg/kg	1	10/11/18 12:56

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**6100**		**0.0608**	**2.83**	**mg/kg**	**1**	**10/11/18 15:31**
Antimony	ND		0.00598	1.41	mg/kg	1	10/11/18 15:31
Arsenic	ND		0.0136	1.41	mg/kg	1	10/11/18 15:31
Barium	**23.3**		**0.00109**	**0.566**	**mg/kg**	**1**	**10/11/18 15:31**
Beryllium	**0.215**		**0.000102**	**0.0283**	**mg/kg**	**1**	**10/11/18 15:31**
Cadmium	ND		0.000964	0.283	mg/kg	1	10/11/18 15:31
Calcium	**634**		**0.321**	**28.3**	**mg/kg**	**1**	**10/11/18 15:31**
Chromium	**8.26**		**0.00102**	**0.283**	**mg/kg**	**1**	**10/11/18 15:31**
Cobalt	**3.51**		**0.00123**	**0.226**	**mg/kg**	**1**	**10/11/18 15:31**
Copper	**9.17**		**0.00122**	**0.283**	**mg/kg**	**1**	**10/11/18 15:31**
Iron	**10900**		**0.128**	**5.66**	**mg/kg**	**1**	**10/11/18 15:31**
Lead	**10.6**		**0.00591**	**1.41**	**mg/kg**	**1**	**10/11/18 15:31**
Magnesium	**1110**		**0.824**	**56.6**	**mg/kg**	**1**	**10/11/18 15:31**
Manganese	**209**		**0.000701**	**0.283**	**mg/kg**	**1**	**10/11/18 15:31**
Nickel	**6.25**		**0.00195**	**0.141**	**mg/kg**	**1**	**10/11/18 15:31**
Potassium	**286**		**2.66**	**113**	**mg/kg**	**1**	**10/11/18 15:31**
Selenium	ND		0.0122	1.41	mg/kg	1	10/11/18 15:31
Silver	ND		0.00337	0.566	mg/kg	1	10/11/18 15:31
Sodium	**85.2**		**0.155**	**56.6**	**mg/kg**	**1**	**10/11/18 15:31**
Thallium	ND		0.00784	1.41	mg/kg	1	10/11/18 15:31
Vanadium	**15.4**		**0.00980**	**0.566**	**mg/kg**	**1**	**10/11/18 15:31**
Zinc	**20.4**		**0.00260**	**0.849**	**mg/kg**	**1**	**10/11/18 15:31**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.122	0.221	mg/kg	1	10/11/18 15:28
2-Methylnaphthalene	ND	U	0.0352	0.221	mg/kg	1	10/11/18 15:28
Acenaphthene	ND	U	0.00837	0.147	mg/kg	1	10/11/18 15:28
Acenaphthylene	ND	U	0.00511	0.147	mg/kg	1	10/11/18 15:28
Anthracene	ND	U	0.0213	0.147	mg/kg	1	10/11/18 15:28
Benzo(a)anthracene	ND	U	0.0148	0.147	mg/kg	1	10/11/18 15:28

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-11 (Soil) Sample Name: **STP-4A** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Benzo(a)pyrene	ND	U	0.0256	0.147	mg/kg	1	10/11/18 15:28
Benzo(b)fluoranthene	ND	U	0.0206	0.147	mg/kg	1	10/11/18 15:28
Benzo(g,h,i)perylene	ND	U	0.0119	0.147	mg/kg	1	10/11/18 15:28
Benzo(k)fluoranthene	ND	U	0.0169	0.147	mg/kg	1	10/11/18 15:28
Chrysene	ND	U	0.0101	0.147	mg/kg	1	10/11/18 15:28
Dibenzo(a,h)anthracene	ND	U	0.0146	0.147	mg/kg	1	10/11/18 15:28
Fluoranthene	ND	U	0.0138	0.147	mg/kg	1	10/11/18 15:28
Fluorene	ND	U	0.0122	0.147	mg/kg	1	10/11/18 15:28
Indeno(1,2,3-cd)pyrene	ND	U	0.0158	0.147	mg/kg	1	10/11/18 15:28
Naphthalene	ND	U	0.0109	0.147	mg/kg	1	10/11/18 15:28
Phenanthrene	ND	U	0.0193	0.147	mg/kg	1	10/11/18 15:28
Pyrene	ND	U	0.0108	0.147	mg/kg	1	10/11/18 15:28

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000109	0.000746	mg/kg	1	10/10/18 22:01
1,1,2,2-Tetrachloroethane	ND	U	0.000103	0.000746	mg/kg	1	10/10/18 22:01
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000319	0.000746	mg/kg	1	10/10/18 22:01
1,1,2-Trichloroethane	ND	U	0.000126	0.000746	mg/kg	1	10/10/18 22:01
1,1-Dichloroethane	ND	U	0.000109	0.000746	mg/kg	1	10/10/18 22:01
1,1-Dichloroethene	ND	U	0.000138	0.000746	mg/kg	1	10/10/18 22:01
1,2,3-Trichlorobenzene	ND	U	0.000161	0.000746	mg/kg	1	10/10/18 22:01
1,2,4-Trichlorobenzene	ND	U	0.000199	0.000746	mg/kg	1	10/10/18 22:01
1,2,4-Trimethylbenzene	ND	U	0.000103	0.000746	mg/kg	1	10/10/18 22:01
1,2-Dibromo-3-chloropropane	ND	U	0.000182	0.000746	mg/kg	1	10/10/18 22:01
1,2-Dibromoethane	ND	U	0.0000939	0.000746	mg/kg	1	10/10/18 22:01
1,2-Dichlorobenzene	ND	U	0.000132	0.000746	mg/kg	1	10/10/18 22:01
1,2-Dichloroethane	ND	U	0.000105	0.000746	mg/kg	1	10/10/18 22:01
1,2-Dichloropropane	ND	U	0.000122	0.000746	mg/kg	1	10/10/18 22:01
1,3-Dichlorobenzene	ND	U	0.0000548	0.000746	mg/kg	1	10/10/18 22:01
1,4-Dichlorobenzene	ND	U	0.000107	0.000746	mg/kg	1	10/10/18 22:01
2-Butanone	ND	U	0.000122	0.00186	mg/kg	1	10/10/18 22:01
2-Hexanone	ND	U	0.0000697	0.000746	mg/kg	1	10/10/18 22:01
4-Methyl-2-pentanone	ND	U	0.0000932	0.000746	mg/kg	1	10/10/18 22:01
Acetone	ND	U	0.000226	0.00186	mg/kg	1	10/10/18 22:01
Benzene	ND	U	0.0000678	0.000746	mg/kg	1	10/10/18 22:01
Bromochloromethane	ND	U	0.000138	0.000746	mg/kg	1	10/10/18 22:01
Bromodichloromethane	ND	U	0.0000936	0.000746	mg/kg	1	10/10/18 22:01

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-11 (Soil) Sample Name: **STP-4A** Collected: **10/10/2018 12:00:00AM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Bromoform	ND	U	0.000131	0.000746	mg/kg	1	10/10/18 22:01
Bromomethane	ND	U	0.000215	0.000746	mg/kg	1	10/10/18 22:01
Carbon disulfide	ND	U	0.000107	0.000746	mg/kg	1	10/10/18 22:01
Carbon Tetrachloride	ND	U	0.000112	0.000746	mg/kg	1	10/10/18 22:01
Chlorobenzene	ND	U	0.000108	0.000746	mg/kg	1	10/10/18 22:01
Chlorodibromomethane	ND	U	0.0000917	0.000746	mg/kg	1	10/10/18 22:01
Chloroethane	ND	U	0.000127	0.000746	mg/kg	1	10/10/18 22:01
Chloroform	ND	U	0.000125	0.000746	mg/kg	1	10/10/18 22:01
Chloromethane	ND	U	0.000287	0.000746	mg/kg	1	10/10/18 22:01
cis-1,2-Dichloroethene	ND	U	0.0000360	0.000746	mg/kg	1	10/10/18 22:01
cis-1,3-Dichloropropene	ND	U	0.0000943	0.000746	mg/kg	1	10/10/18 22:01
Cyclohexane	ND	U	0.000165	0.000746	mg/kg	1	10/10/18 22:01
Dichlorodifluoromethane	ND	U	0.000252	0.000746	mg/kg	1	10/10/18 22:01
EthylBenzene	ND	U	0.000101	0.000746	mg/kg	1	10/10/18 22:01
Isopropylbenzene	ND	U	0.000117	0.000746	mg/kg	1	10/10/18 22:01
m+p-Xylenes	ND	U	0.000188	0.00149	mg/kg	1	10/10/18 22:01
Methyl Acetate	ND	U	0.0000988	0.000746	mg/kg	1	10/10/18 22:01
Methyl tert-Butyl Ether	ND	U	0.000126	0.000746	mg/kg	1	10/10/18 22:01
Methylcyclohexane	ND	U	0.000120	0.000746	mg/kg	1	10/10/18 22:01
Methylene Chloride	ND	U	0.000224	0.000746	mg/kg	1	10/10/18 22:01
o-Xylene	ND	U	0.0000958	0.000746	mg/kg	1	10/10/18 22:01
Styrene	ND	U	0.000107	0.000746	mg/kg	1	10/10/18 22:01
tert-Butyl alcohol	ND	U	0.00157	0.00746	mg/kg	1	10/10/18 22:01
Tetrachloroethene	ND	U	0.0000738	0.000746	mg/kg	1	10/10/18 22:01
Toluene	ND	U	0.0000600	0.000746	mg/kg	1	10/10/18 22:01
Total Xylenes	ND	U	0.0000958	0.000746	mg/kg	1	10/10/18 22:01
trans-1,2-Dichloroethene	ND	U	0.000101	0.000746	mg/kg	1	10/10/18 22:01
trans-1,3-Dichloropropene	ND	U	0.000142	0.000746	mg/kg	1	10/10/18 22:01
Trichloroethene	ND	U	0.000110	0.000746	mg/kg	1	10/10/18 22:01
Trichlorofluoromethane	ND	U	0.0000857	0.000746	mg/kg	1	10/10/18 22:01
Vinyl chloride	ND	U	0.000142	0.000746	mg/kg	1	10/10/18 22:01

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

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All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-11 (Soil) Sample Name: **STP-4A** Collected: **10/10/2018 12:00:00AM**

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**90.6**				**%**	**1**	**10/11/18 10:54**

8100452-12 (Soil) Sample Name: **STP-4B** Collected: **10/10/2018 12:00:00AM**

SW 846 8082A - PCBs

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aroclor-1016	ND	U	0.000641	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1221	ND	U	0.00111	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1232	ND	U	0.000847	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1242	ND	U	0.00122	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1248	ND	U	0.000844	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1254	ND	U	0.00128	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1260	ND	U	0.000949	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1262	ND	U	0.00139	0.0360	mg/kg	1	10/11/18 14:52
Aroclor-1268	ND	U	0.000727	0.0360	mg/kg	1	10/11/18 14:52
Total PCBs	ND	U	0.000641	0.0360	mg/kg	1	10/11/18 14:52

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.9	21.8	mg/kg	1	10/12/18 13:13

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0243	0.0495	mg/kg	1	10/11/18 12:59

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**5610**		**0.0580**	**2.70**	**mg/kg**	**1**	**10/11/18 15:33**
Antimony	ND		0.00570	1.35	mg/kg	1	10/11/18 15:33
Arsenic	ND		0.0130	1.35	mg/kg	1	10/11/18 15:33
Barium	**24.9**		**0.00104**	**0.540**	**mg/kg**	**1**	**10/11/18 15:33**
Beryllium	**0.211**		**0.0000974**	**0.0270**	**mg/kg**	**1**	**10/11/18 15:33**
Cadmium	ND		0.000920	0.270	mg/kg	1	10/11/18 15:33
Calcium	**899**		**0.307**	**27.0**	**mg/kg**	**1**	**10/11/18 15:33**
Chromium	**7.75**		**0.000971**	**0.270**	**mg/kg**	**1**	**10/11/18 15:33**
Cobalt	**3.46**		**0.00118**	**0.216**	**mg/kg**	**1**	**10/11/18 15:33**
Copper	**8.07**		**0.00117**	**0.270**	**mg/kg**	**1**	**10/11/18 15:33**
Iron	**10600**		**0.122**	**5.40**	**mg/kg**	**1**	**10/11/18 15:33**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-12 (Soil) Sample Name: **STP-4B** Collected: **10/10/2018 12:00:00AM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Lead	**8.26**		**0.00564**	**1.35**	**mg/kg**	**1**	**10/11/18 15:33**
Magnesium	**1220**		**0.786**	**54.0**	**mg/kg**	**1**	**10/11/18 15:33**
Manganese	**261**		**0.000668**	**0.270**	**mg/kg**	**1**	**10/11/18 15:33**
Nickel	**6.18**		**0.00186**	**0.135**	**mg/kg**	**1**	**10/11/18 15:33**
Potassium	**283**		**2.54**	**108**	**mg/kg**	**1**	**10/11/18 15:33**
Selenium	ND		0.0117	1.35	mg/kg	1	10/11/18 15:33
Silver	ND		0.00322	0.540	mg/kg	1	10/11/18 15:33
Sodium	**82.6**		**0.148**	**54.0**	**mg/kg**	**1**	**10/11/18 15:33**
Thallium	ND		0.00748	1.35	mg/kg	1	10/11/18 15:33
Vanadium	**14.7**		**0.00935**	**0.540**	**mg/kg**	**1**	**10/11/18 15:33**
Zinc	**23.2**		**0.00248**	**0.810**	**mg/kg**	**1**	**10/11/18 15:33**

SW 846 8081B - Pesticides

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
4,4'-DDD	ND	U	0.000858	0.00142	mg/kg	1	10/11/18 16:51
4,4'-DDE	ND	U	0.00100	0.00142	mg/kg	1	10/11/18 16:51
4,4'-DDT	ND	U	0.000681	0.00142	mg/kg	1	10/11/18 16:51
Aldrin	ND	U	0.000880	0.00142	mg/kg	1	10/11/18 16:51
alpha-BHC	ND	U	0.000549	0.00142	mg/kg	1	10/11/18 16:51
beta-BHC	ND	U	0.00140	0.00142	mg/kg	1	10/11/18 16:51
Chlordane	**0.0103**		**0.000952**	**0.00142**	**mg/kg**	**1**	**10/11/18 16:51**
delta-BHC	ND	U	0.00110	0.00142	mg/kg	1	10/11/18 16:51
Dieldrin	ND	U	0.000763	0.00142	mg/kg	1	10/11/18 16:51
Endosulfan I	ND	U	0.000981	0.00142	mg/kg	1	10/11/18 16:51
Endosulfan II	ND	U	0.000771	0.00142	mg/kg	1	10/11/18 16:51
Endosulfan sulfate	ND	U	0.000771	0.00142	mg/kg	1	10/11/18 16:51
Endrin	ND	U	0.000727	0.00142	mg/kg	1	10/11/18 16:51
Endrin aldehyde	ND	U	0.000605	0.00142	mg/kg	1	10/11/18 16:51
Endrin ketone	ND	U	0.000865	0.00142	mg/kg	1	10/11/18 16:51
gamma-BHC (Lindane)	ND	U	0.000648	0.00142	mg/kg	1	10/11/18 16:51
Heptachlor	ND	U	0.000829	0.00142	mg/kg	1	10/11/18 16:51
Heptachlor Epoxide	ND	U	0.000887	0.00142	mg/kg	1	10/11/18 16:51
Methoxychlor	ND	U	0.000902	0.00142	mg/kg	1	10/11/18 16:51
Toxaphene	ND	U	0.0220	0.0720	mg/kg	1	10/11/18 16:51

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-12 (Soil) Sample Name: **STP-4B** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.0348	0.218	mg/kg	1	10/11/18 15:57
2,3,4,6-Tetrachlorophenol	ND	U	0.0224	0.145	mg/kg	1	10/11/18 15:57
2,4,5-Trichlorophenol	ND	U	0.0197	0.145	mg/kg	1	10/11/18 15:57
2,4,6-Trichlorophenol	ND	U	0.00908	0.145	mg/kg	1	10/11/18 15:57
2,4-Dichlorophenol	ND	U	0.0146	0.145	mg/kg	1	10/11/18 15:57
2,4-Dimethylphenol	ND	U	0.0143	0.145	mg/kg	1	10/11/18 15:57
2,4-Dinitrophenol	ND	U	0.0209	0.727	mg/kg	1	10/11/18 15:57
2,4-Dinitrotoluene	ND	U	0.0155	0.145	mg/kg	1	10/11/18 15:57
2,6-Dinitrotoluene	ND	U	0.0347	0.145	mg/kg	1	10/11/18 15:57
2-Chloronaphthalene	ND	U	0.0167	0.145	mg/kg	1	10/11/18 15:57
2-Chlorophenol	ND	U	0.0192	0.145	mg/kg	1	10/11/18 15:57
2-Methylnaphthalene	ND	U	0.0348	0.218	mg/kg	1	10/11/18 15:57
2-Methylphenol	ND	U	0.0287	0.145	mg/kg	1	10/11/18 15:57
2-Nitroaniline	ND	U	0.0117	0.145	mg/kg	1	10/11/18 15:57
2-Nitrophenol	ND	U	0.0161	0.145	mg/kg	1	10/11/18 15:57
3,3'-Dichlorobenzidine	ND	U	0.0153	0.145	mg/kg	1	10/11/18 15:57
3+4-Methylphenol	ND	U	0.0266	0.145	mg/kg	1	10/11/18 15:57
3-Nitroaniline	ND	U	0.0269	0.145	mg/kg	1	10/11/18 15:57
4,6-Dinitro-2-methylphenol	ND	U	0.0274	0.363	mg/kg	1	10/11/18 15:57
4-Bromophenyl-phenyl ether	ND	U	0.0207	0.145	mg/kg	1	10/11/18 15:57
4-Chloro-3-methylphenol	ND	U	0.0229	0.145	mg/kg	1	10/11/18 15:57
4-Chloroaniline	ND	U	0.00508	0.145	mg/kg	1	10/11/18 15:57
4-Chlorophenyl phenyl ether	ND	U	0.00784	0.145	mg/kg	1	10/11/18 15:57
4-Nitroaniline	ND	U	0.0726	0.145	mg/kg	1	10/11/18 15:57
4-Nitrophenol	ND	U	0.00929	0.145	mg/kg	1	10/11/18 15:57
Acenaphthene	ND	U	0.00828	0.145	mg/kg	1	10/11/18 15:57
Acenaphthylene	ND	U	0.00505	0.145	mg/kg	1	10/11/18 15:57
Acetophenone	ND	U	0.0144	0.145	mg/kg	1	10/11/18 15:57
Anthracene	ND	U	0.0210	0.145	mg/kg	1	10/11/18 15:57
Atrazine	ND	U	0.0136	0.145	mg/kg	1	10/11/18 15:57
Benzaldehyde	ND	U	0.0446	0.145	mg/kg	1	10/11/18 15:57
Benzo(a)anthracene	ND	U	0.0146	0.145	mg/kg	1	10/11/18 15:57
Benzo(a)pyrene	ND	U	0.0253	0.145	mg/kg	1	10/11/18 15:57
Benzo(b)fluoranthene	ND	U	0.0204	0.145	mg/kg	1	10/11/18 15:57
Benzo(g,h,i)perylene	ND	U	0.0118	0.145	mg/kg	1	10/11/18 15:57
Benzo(k)fluoranthene	ND	U	0.0167	0.145	mg/kg	1	10/11/18 15:57
Biphenyl	ND	U	0.0128	0.145	mg/kg	1	10/11/18 15:57
bis(2-chloroethoxy)methane	ND	U	0.0201	0.145	mg/kg	1	10/11/18 15:57
bis(2-chloroethyl)ether	ND	U	0.0159	0.145	mg/kg	1	10/11/18 15:57

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B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-12 (Soil) Sample Name: **STP-4B** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
bis(2-chloroisopropyl)ether	ND	U	0.0522	0.145	mg/kg	1	10/11/18 15:57
bis(2-ethylhexyl)phthalate	ND	U	0.0290	0.145	mg/kg	1	10/11/18 15:57
Butylbenzylphthalate	ND	U	0.0132	0.145	mg/kg	1	10/11/18 15:57
Caprolactam	ND	U	0.0188	0.145	mg/kg	1	10/11/18 15:57
Carbazole	ND	U	0.0279	0.363	mg/kg	1	10/11/18 15:57
Chrysene	ND	U	0.00995	0.145	mg/kg	1	10/11/18 15:57
Dibenzo(a,h)anthracene	ND	U	0.0144	0.145	mg/kg	1	10/11/18 15:57
Dibenzofuran	ND	U	0.00865	0.145	mg/kg	1	10/11/18 15:57
Diethylphthalate	ND	U	0.0281	0.145	mg/kg	1	10/11/18 15:57
Dimethylphthalate	**0.0632**	**J**	**0.00901**	**0.145**	**mg/kg**	**1**	**10/11/18 15:57**
Di-n-butylphthalate	ND	U	0.0593	0.145	mg/kg	1	10/11/18 15:57
Di-n-octylphthalate	ND	U	0.0298	0.145	mg/kg	1	10/11/18 15:57
Fluoranthene	ND	U	0.0136	0.145	mg/kg	1	10/11/18 15:57
Fluorene	ND	U	0.0121	0.145	mg/kg	1	10/11/18 15:57
Hexachlorobenzene	ND	U	0.0190	0.145	mg/kg	1	10/11/18 15:57
Hexachlorobutadiene	ND	U	0.0697	0.145	mg/kg	1	10/11/18 15:57
Hexachlorocyclopentadiene	ND	U	0.0605	0.363	mg/kg	1	10/11/18 15:57
Hexachloroethane	ND	U	0.0159	0.145	mg/kg	1	10/11/18 15:57
Indeno(1,2,3-cd)pyrene	ND	U	0.0156	0.145	mg/kg	1	10/11/18 15:57
Isophorone	ND	U	0.00951	0.145	mg/kg	1	10/11/18 15:57
Naphthalene	ND	U	0.0108	0.145	mg/kg	1	10/11/18 15:57
Nitrobenzene	ND	U	0.0246	0.145	mg/kg	1	10/11/18 15:57
n-Nitroso-di-n-propylamine	ND	U	0.00778	0.145	mg/kg	1	10/11/18 15:57
n-Nitrosodiphenylamine	ND	U	0.0310	0.145	mg/kg	1	10/11/18 15:57
Phenanthrene	ND	U	0.0191	0.145	mg/kg	1	10/11/18 15:57
Phenol	ND	U	0.0118	0.145	mg/kg	1	10/11/18 15:57
Pyrene	ND	U	0.0107	0.145	mg/kg	1	10/11/18 15:57

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000129	0.000887	mg/kg	1	10/10/18 22:30
1,1,2,2-Tetrachloroethane	ND	U	0.000122	0.000887	mg/kg	1	10/10/18 22:30
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000379	0.000887	mg/kg	1	10/10/18 22:30
1,1,2-Trichloroethane	ND	U	0.000149	0.000887	mg/kg	1	10/10/18 22:30

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-12 (Soil) Sample Name: **STP-4B** Collected: **10/10/2018 12:00:00AM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1-Dichloroethane	ND	U	0.000129	0.000887	mg/kg	1	10/10/18 22:30
1,1-Dichloroethene	ND	U	0.000164	0.000887	mg/kg	1	10/10/18 22:30
1,2,3-Trichlorobenzene	ND	U	0.000192	0.000887	mg/kg	1	10/10/18 22:30
1,2,4-Trichlorobenzene	ND	U	0.000236	0.000887	mg/kg	1	10/10/18 22:30
1,2,4-Trimethylbenzene	ND	U	0.000122	0.000887	mg/kg	1	10/10/18 22:30
1,2-Dibromo-3-chloropropane	ND	U	0.000216	0.000887	mg/kg	1	10/10/18 22:30
1,2-Dibromoethane	ND	U	0.000112	0.000887	mg/kg	1	10/10/18 22:30
1,2-Dichlorobenzene	ND	U	0.000156	0.000887	mg/kg	1	10/10/18 22:30
1,2-Dichloroethane	ND	U	0.000125	0.000887	mg/kg	1	10/10/18 22:30
1,2-Dichloropropane	ND	U	0.000145	0.000887	mg/kg	1	10/10/18 22:30
1,3-Dichlorobenzene	ND	U	0.0000652	0.000887	mg/kg	1	10/10/18 22:30
1,4-Dichlorobenzene	ND	U	0.000128	0.000887	mg/kg	1	10/10/18 22:30
2-Butanone	ND	U	0.000145	0.00222	mg/kg	1	10/10/18 22:30
2-Hexanone	ND	U	0.0000829	0.000887	mg/kg	1	10/10/18 22:30
4-Methyl-2-pentanone	ND	U	0.000111	0.000887	mg/kg	1	10/10/18 22:30
Acetone	ND	U	0.000269	0.00222	mg/kg	1	10/10/18 22:30
Benzene	ND	U	0.0000807	0.000887	mg/kg	1	10/10/18 22:30
Bromochloromethane	ND	U	0.000164	0.000887	mg/kg	1	10/10/18 22:30
Bromodichloromethane	ND	U	0.000111	0.000887	mg/kg	1	10/10/18 22:30
Bromoform	ND	U	0.000156	0.000887	mg/kg	1	10/10/18 22:30
Bromomethane	ND	U	0.000256	0.000887	mg/kg	1	10/10/18 22:30
Carbon disulfide	ND	U	0.000127	0.000887	mg/kg	1	10/10/18 22:30
Carbon Tetrachloride	ND	U	0.000133	0.000887	mg/kg	1	10/10/18 22:30
Chlorobenzene	ND	U	0.000129	0.000887	mg/kg	1	10/10/18 22:30
Chlorodibromomethane	ND	U	0.000109	0.000887	mg/kg	1	10/10/18 22:30
Chloroethane	ND	U	0.000151	0.000887	mg/kg	1	10/10/18 22:30
Chloroform	ND	U	0.000149	0.000887	mg/kg	1	10/10/18 22:30
Chloromethane	ND	U	0.000341	0.000887	mg/kg	1	10/10/18 22:30
cis-1,2-Dichloroethene	ND	U	0.0000429	0.000887	mg/kg	1	10/10/18 22:30
cis-1,3-Dichloropropene	ND	U	0.000112	0.000887	mg/kg	1	10/10/18 22:30
Cyclohexane	ND	U	0.000196	0.000887	mg/kg	1	10/10/18 22:30
Dichlorodifluoromethane	ND	U	0.000299	0.000887	mg/kg	1	10/10/18 22:30
EthylBenzene	ND	U	0.000120	0.000887	mg/kg	1	10/10/18 22:30
Isopropylbenzene	ND	U	0.000139	0.000887	mg/kg	1	10/10/18 22:30
m+p-Xylenes	ND	U	0.000224	0.00177	mg/kg	1	10/10/18 22:30
Methyl Acetate	ND	U	0.000117	0.000887	mg/kg	1	10/10/18 22:30
Methyl tert-Butyl Ether	ND	U	0.000150	0.000887	mg/kg	1	10/10/18 22:30
Methylcyclohexane	ND	U	0.000143	0.000887	mg/kg	1	10/10/18 22:30
Methylene Chloride	ND	U	0.000266	0.000887	mg/kg	1	10/10/18 22:30

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-12 (Soil) Sample Name: STP-4B Collected: 10/10/2018 12:00:00AM

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
o-Xylene	ND	U	0.000114	0.000887	mg/kg	1	10/10/18 22:30
Styrene	ND	U	0.000127	0.000887	mg/kg	1	10/10/18 22:30
tert-Butyl alcohol	ND	U	0.00186	0.00887	mg/kg	1	10/10/18 22:30
Tetrachloroethene	ND	U	0.0000878	0.000887	mg/kg	1	10/10/18 22:30
Toluene	ND	U	0.0000714	0.000887	mg/kg	1	10/10/18 22:30
Total Xylenes	ND	U	0.000114	0.000887	mg/kg	1	10/10/18 22:30
trans-1,2-Dichloroethene	ND	U	0.000120	0.000887	mg/kg	1	10/10/18 22:30
trans-1,3-Dichloropropene	ND	U	0.000169	0.000887	mg/kg	1	10/10/18 22:30
Trichloroethene	ND	U	0.000130	0.000887	mg/kg	1	10/10/18 22:30
Trichlorofluoromethane	ND	U	0.000102	0.000887	mg/kg	1	10/10/18 22:30
Vinyl chloride	ND	U	0.000168	0.000887	mg/kg	1	10/10/18 22:30

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**91.7**				**%**	**1**	**10/11/18 10:54**

SW 846 9014 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Cyanide	ND		0.0818	0.273	mg/kg	1	10/11/18 13:30

8100452-13 (Soil) Sample Name: STP-5 Collected: 10/10/2018 12:00:00AM

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.8	21.6	mg/kg	1	10/12/18 15:07

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0254	0.0518	mg/kg	1	10/11/18 13:02

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-13 (Soil) Sample Name: **STP-5** Collected: **10/10/2018 12:00:00AM**

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**6860**		**0.0617**	**2.87**	**mg/kg**	**1**	**10/11/18 15:37**
Antimony	ND		0.00606	1.44	mg/kg	1	10/11/18 15:37
Arsenic	**3.01**		**0.0138**	**1.44**	**mg/kg**	**1**	**10/11/18 15:37**
Barium	**23.0**		**0.00111**	**0.574**	**mg/kg**	**1**	**10/11/18 15:37**
Beryllium	**0.256**		**0.000104**	**0.0287**	**mg/kg**	**1**	**10/11/18 15:37**
Cadmium	ND		0.000978	0.287	mg/kg	1	10/11/18 15:37
Calcium	**310**		**0.326**	**28.7**	**mg/kg**	**1**	**10/11/18 15:37**
Chromium	**8.30**		**0.00103**	**0.287**	**mg/kg**	**1**	**10/11/18 15:37**
Cobalt	**4.74**		**0.00125**	**0.230**	**mg/kg**	**1**	**10/11/18 15:37**
Copper	**9.68**		**0.00124**	**0.287**	**mg/kg**	**1**	**10/11/18 15:37**
Iron	**15100**		**0.130**	**5.74**	**mg/kg**	**1**	**10/11/18 15:37**
Lead	**5.25**		**0.00599**	**1.44**	**mg/kg**	**1**	**10/11/18 15:37**
Magnesium	**1150**		**0.836**	**57.4**	**mg/kg**	**1**	**10/11/18 15:37**
Manganese	**333**		**0.000711**	**0.287**	**mg/kg**	**1**	**10/11/18 15:37**
Nickel	**7.29**		**0.00198**	**0.144**	**mg/kg**	**1**	**10/11/18 15:37**
Potassium	**241**		**2.70**	**115**	**mg/kg**	**1**	**10/11/18 15:37**
Selenium	ND		0.0124	1.44	mg/kg	1	10/11/18 15:37
Silver	ND		0.00342	0.574	mg/kg	1	10/11/18 15:37
Sodium	ND		0.157	57.4	mg/kg	1	10/11/18 15:37
Thallium	ND		0.00796	1.44	mg/kg	1	10/11/18 15:37
Vanadium	**17.3**		**0.00995**	**0.574**	**mg/kg**	**1**	**10/11/18 15:37**
Zinc	**39.9**		**0.00264**	**0.861**	**mg/kg**	**1**	**10/11/18 15:37**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.120	0.216	mg/kg	1	10/11/18 16:27
2-Methylnaphthalene	ND	U	0.0344	0.216	mg/kg	1	10/11/18 16:27
Acenaphthene	ND	U	0.00819	0.144	mg/kg	1	10/11/18 16:27
Acenaphthylene	ND	U	0.00500	0.144	mg/kg	1	10/11/18 16:27
Anthracene	ND	U	0.0208	0.144	mg/kg	1	10/11/18 16:27
Benzo(a)anthracene	ND	U	0.0145	0.144	mg/kg	1	10/11/18 16:27
Benzo(a)pyrene	ND	U	0.0250	0.144	mg/kg	1	10/11/18 16:27
Benzo(b)fluoranthene	ND	U	0.0202	0.144	mg/kg	1	10/11/18 16:27
Benzo(g,h,i)perylene	ND	U	0.0117	0.144	mg/kg	1	10/11/18 16:27
Benzo(k)fluoranthene	ND	U	0.0165	0.144	mg/kg	1	10/11/18 16:27
Chrysene	ND	U	0.00985	0.144	mg/kg	1	10/11/18 16:27
Dibenzo(a,h)anthracene	ND	U	0.0142	0.144	mg/kg	1	10/11/18 16:27
Fluoranthene	ND	U	0.0135	0.144	mg/kg	1	10/11/18 16:27
Fluorene	ND	U	0.0120	0.144	mg/kg	1	10/11/18 16:27

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-13 (Soil) Sample Name: **STP-5** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BN-PAH (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Indeno(1,2,3-cd)pyrene	ND	U	0.0154	0.144	mg/kg	1	10/11/18 16:27
Naphthalene	ND	U	0.0106	0.144	mg/kg	1	10/11/18 16:27
Phenanthrene	ND	U	0.0189	0.144	mg/kg	1	10/11/18 16:27
Pyrene	ND	U	0.0106	0.144	mg/kg	1	10/11/18 16:27

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**92.6**				**%**	**1**	**10/11/18 10:54**

8100452-14 (Soil) Sample Name: **STP-7** Collected: **10/10/2018 12:00:00AM**

SW 846 8082A - PCBs

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aroclor-1016	ND	U	0.000633	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1221	ND	U	0.00109	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1232	ND	U	0.000836	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1242	ND	U	0.00121	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1248	ND	U	0.000833	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1254	ND	U	0.00127	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1260	ND	U	0.000936	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1262	ND	U	0.00137	0.0355	mg/kg	1	10/11/18 15:17
Aroclor-1268	ND	U	0.000718	0.0355	mg/kg	1	10/11/18 15:17
Total PCBs	ND	U	0.000633	0.0355	mg/kg	1	10/11/18 15:17

NJDEP-EPH-CAT2 - Extractable Petroleum Hydrocarbons Category 2

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Total EPH	ND	U	10.8	21.5	mg/kg	1	10/12/18 15:42

SW 846 7471B - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Mercury	ND		0.0227	0.0463	mg/kg	1	10/11/18 13:05

SW 846 6010D - Total Metals

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aluminum	**4650**		**0.0545**	**2.54**	**mg/kg**	**1**	**10/11/18 15:39**
Antimony	ND		0.00536	1.27	mg/kg	1	10/11/18 15:39
Arsenic	**1.49**		**0.0122**	**1.27**	**mg/kg**	**1**	**10/11/18 15:39**
Barium	**18.5**		**0.000979**	**0.508**	**mg/kg**	**1**	**10/11/18 15:39**

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental **Work Order:** 8100452
Project: Ridgewood **Date to Lab:** 10/10/2018 3:40:00PM

8100452-14 (Soil) Sample Name: **STP-7** Collected: **10/10/2018 12:00:00AM**

SW 846 6010D - Total Metals (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Beryllium	**0.178**		**0.0000916**	**0.0254**	**mg/kg**	**1**	**10/11/18 15:39**
Cadmium	ND		0.000865	0.254	mg/kg	1	10/11/18 15:39
Calcium	**294**		**0.288**	**25.4**	**mg/kg**	**1**	**10/11/18 15:39**
Chromium	**6.14**		**0.000913**	**0.254**	**mg/kg**	**1**	**10/11/18 15:39**
Cobalt	**2.97**		**0.00111**	**0.203**	**mg/kg**	**1**	**10/11/18 15:39**
Copper	**6.73**		**0.00110**	**0.254**	**mg/kg**	**1**	**10/11/18 15:39**
Iron	**9110**		**0.115**	**5.08**	**mg/kg**	**1**	**10/11/18 15:39**
Lead	**4.31**		**0.00530**	**1.27**	**mg/kg**	**1**	**10/11/18 15:39**
Magnesium	**910**		**0.739**	**50.8**	**mg/kg**	**1**	**10/11/18 15:39**
Manganese	**240**		**0.000628**	**0.254**	**mg/kg**	**1**	**10/11/18 15:39**
Nickel	**5.05**		**0.00175**	**0.127**	**mg/kg**	**1**	**10/11/18 15:39**
Potassium	**210**		**2.39**	**102**	**mg/kg**	**1**	**10/11/18 15:39**
Selenium	ND		0.0110	1.27	mg/kg	1	10/11/18 15:39
Silver	ND		0.00303	0.508	mg/kg	1	10/11/18 15:39
Sodium	**52.0**		**0.139**	**50.8**	**mg/kg**	**1**	**10/11/18 15:39**
Thallium	ND		0.00703	1.27	mg/kg	1	10/11/18 15:39
Vanadium	**11.8**		**0.00879**	**0.508**	**mg/kg**	**1**	**10/11/18 15:39**
Zinc	**24.1**		**0.00233**	**0.761**	**mg/kg**	**1**	**10/11/18 15:39**

SW 846 8081B - Pesticides

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
4,4'-DDD	ND	U	0.000847	0.00140	mg/kg	1	10/11/18 17:14
4,4'-DDE	ND	U	0.000990	0.00140	mg/kg	1	10/11/18 17:14
4,4'-DDT [2C]	**0.00928**		**0.000586**	**0.00140**	**mg/kg**	**1**	**10/11/18 17:14**
Aldrin	ND	U	0.000868	0.00140	mg/kg	1	10/11/18 17:14
alpha-BHC	ND	U	0.000541	0.00140	mg/kg	1	10/11/18 17:14
beta-BHC	ND	U	0.00138	0.00140	mg/kg	1	10/11/18 17:14
Chlordane	**0.0136**		**0.000939**	**0.00140**	**mg/kg**	**1**	**10/11/18 17:14**
delta-BHC	ND	U	0.00108	0.00140	mg/kg	1	10/11/18 17:14
Dieldrin	ND	U	0.000753	0.00140	mg/kg	1	10/11/18 17:14
Endosulfan I	ND	U	0.000968	0.00140	mg/kg	1	10/11/18 17:14
Endosulfan II	ND	U	0.000761	0.00140	mg/kg	1	10/11/18 17:14
Endosulfan sulfate	ND	U	0.000761	0.00140	mg/kg	1	10/11/18 17:14
Endrin	ND	U	0.000718	0.00140	mg/kg	1	10/11/18 17:14
Endrin aldehyde	ND	U	0.000597	0.00140	mg/kg	1	10/11/18 17:14
Endrin ketone	ND	U	0.000853	0.00140	mg/kg	1	10/11/18 17:14
gamma-BHC (Lindane)	ND	U	0.000639	0.00140	mg/kg	1	10/11/18 17:14
Heptachlor	ND	U	0.000818	0.00140	mg/kg	1	10/11/18 17:14
Heptachlor Epoxide	ND	U	0.000875	0.00140	mg/kg	1	10/11/18 17:14

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-14 (Soil) Sample Name: **STP-7** Collected: **10/10/2018 12:00:00AM**

SW 846 8081B - Pesticides (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Methoxychlor	ND	U	0.000890	0.00140	mg/kg	1	10/11/18 17:14
Toxaphene	ND	U	0.0217	0.0710	mg/kg	1	10/11/18 17:14

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1-Methylnaphthalene	ND	U	0.0343	0.215	mg/kg	1	10/11/18 16:57
2,3,4,6-Tetrachlorophenol	ND	U	0.0221	0.143	mg/kg	1	10/11/18 16:57
2,4,5-Trichlorophenol	ND	U	0.0195	0.143	mg/kg	1	10/11/18 16:57
2,4,6-Trichlorophenol	ND	U	0.00896	0.143	mg/kg	1	10/11/18 16:57
2,4-Dichlorophenol	ND	U	0.0144	0.143	mg/kg	1	10/11/18 16:57
2,4-Dimethylphenol	ND	U	0.0141	0.143	mg/kg	1	10/11/18 16:57
2,4-Dinitrophenol	ND	U	0.0207	0.718	mg/kg	1	10/11/18 16:57
2,4-Dinitrotoluene	ND	U	0.0153	0.143	mg/kg	1	10/11/18 16:57
2,6-Dinitrotoluene	ND	U	0.0342	0.143	mg/kg	1	10/11/18 16:57
2-Chloronaphthalene	ND	U	0.0165	0.143	mg/kg	1	10/11/18 16:57
2-Chlorophenol	ND	U	0.0189	0.143	mg/kg	1	10/11/18 16:57
2-Methylnaphthalene	ND	U	0.0343	0.215	mg/kg	1	10/11/18 16:57
2-Methylphenol	ND	U	0.0283	0.143	mg/kg	1	10/11/18 16:57
2-Nitroaniline	ND	U	0.0115	0.143	mg/kg	1	10/11/18 16:57
2-Nitrophenol	ND	U	0.0159	0.143	mg/kg	1	10/11/18 16:57
3,3'-Dichlorobenzidine	ND	U	0.0151	0.143	mg/kg	1	10/11/18 16:57
3+4-Methylphenol	ND	U	0.0263	0.143	mg/kg	1	10/11/18 16:57
3-Nitroaniline	ND	U	0.0266	0.143	mg/kg	1	10/11/18 16:57
4,6-Dinitro-2-methylphenol	ND	U	0.0270	0.358	mg/kg	1	10/11/18 16:57
4-Bromophenyl-phenyl ether	ND	U	0.0204	0.143	mg/kg	1	10/11/18 16:57
4-Chloro-3-methylphenol	ND	U	0.0226	0.143	mg/kg	1	10/11/18 16:57
4-Chloroaniline	ND	U	0.00501	0.143	mg/kg	1	10/11/18 16:57
4-Chlorophenyl phenyl ether	ND	U	0.00774	0.143	mg/kg	1	10/11/18 16:57
4-Nitroaniline	ND	U	0.0717	0.143	mg/kg	1	10/11/18 16:57
4-Nitrophenol	ND	U	0.00917	0.143	mg/kg	1	10/11/18 16:57
Acenaphthene	ND	U	0.00817	0.143	mg/kg	1	10/11/18 16:57
Acenaphthylene	ND	U	0.00498	0.143	mg/kg	1	10/11/18 16:57
Acetophenone	ND	U	0.0142	0.143	mg/kg	1	10/11/18 16:57
Anthracene	ND	U	0.0208	0.143	mg/kg	1	10/11/18 16:57
Atrazine	ND	U	0.0135	0.143	mg/kg	1	10/11/18 16:57
Benzaldehyde	ND	U	0.0440	0.143	mg/kg	1	10/11/18 16:57
Benzo(a)anthracene	ND	U	0.0144	0.143	mg/kg	1	10/11/18 16:57
Benzo(a)pyrene	ND	U	0.0250	0.143	mg/kg	1	10/11/18 16:57
Benzo(b)fluoranthene	ND	U	0.0201	0.143	mg/kg	1	10/11/18 16:57

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-14 (Soil) Sample Name: **STP-7** Collected: **10/10/2018 12:00:00AM**

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Benzo(g,h,i)perylene	ND	U	0.0116	0.143	mg/kg	1	10/11/18 16:57
Benzo(k)fluoranthene	ND	U	0.0165	0.143	mg/kg	1	10/11/18 16:57
Biphenyl	ND	U	0.0126	0.143	mg/kg	1	10/11/18 16:57
bis(2-chloroethoxy)methane	ND	U	0.0198	0.143	mg/kg	1	10/11/18 16:57
bis(2-chloroethyl)ether	ND	U	0.0157	0.143	mg/kg	1	10/11/18 16:57
bis(2-chloroisopropyl)ether	ND	U	0.0515	0.143	mg/kg	1	10/11/18 16:57
bis(2-ethylhexyl)phthalate	ND	U	0.0286	0.143	mg/kg	1	10/11/18 16:57
Butylbenzylphthalate	ND	U	0.0130	0.143	mg/kg	1	10/11/18 16:57
Caprolactam	ND	U	0.0185	0.143	mg/kg	1	10/11/18 16:57
Carbazole	ND	U	0.0275	0.358	mg/kg	1	10/11/18 16:57
Chrysene	ND	U	0.00981	0.143	mg/kg	1	10/11/18 16:57
Dibenzo(a,h)anthracene	ND	U	0.0142	0.143	mg/kg	1	10/11/18 16:57
Dibenzofuran	ND	U	0.00853	0.143	mg/kg	1	10/11/18 16:57
Diethylphthalate	ND	U	0.0278	0.143	mg/kg	1	10/11/18 16:57
Dimethylphthalate	ND	U	0.00889	0.143	mg/kg	1	10/11/18 16:57
Di-n-butylphthalate	ND	U	0.0585	0.143	mg/kg	1	10/11/18 16:57
Di-n-octylphthalate	ND	U	0.0294	0.143	mg/kg	1	10/11/18 16:57
Fluoranthene	ND	U	0.0135	0.143	mg/kg	1	10/11/18 16:57
Fluorene	ND	U	0.0119	0.143	mg/kg	1	10/11/18 16:57
Hexachlorobenzene	ND	U	0.0187	0.143	mg/kg	1	10/11/18 16:57
Hexachlorobutadiene	ND	U	0.0688	0.143	mg/kg	1	10/11/18 16:57
Hexachlorocyclopentadiene	ND	U	0.0597	0.358	mg/kg	1	10/11/18 16:57
Hexachloroethane	ND	U	0.0157	0.143	mg/kg	1	10/11/18 16:57
Indeno(1,2,3-cd)pyrene	ND	U	0.0154	0.143	mg/kg	1	10/11/18 16:57
Isophorone	ND	U	0.00938	0.143	mg/kg	1	10/11/18 16:57
Naphthalene	ND	U	0.0106	0.143	mg/kg	1	10/11/18 16:57
Nitrobenzene	ND	U	0.0243	0.143	mg/kg	1	10/11/18 16:57
n-Nitroso-di-n-propylamine	ND	U	0.00767	0.143	mg/kg	1	10/11/18 16:57
n-Nitrosodiphenylamine	ND	U	0.0306	0.143	mg/kg	1	10/11/18 16:57
Phenanthrene	ND	U	0.0188	0.143	mg/kg	1	10/11/18 16:57
Phenol	ND	U	0.0116	0.143	mg/kg	1	10/11/18 16:57
Pyrene	ND	U	0.0105	0.143	mg/kg	1	10/11/18 16:57

SW 846 8270D - Semivolatile Organics - GC/MS - BNA+25 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

APL

AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

All Results Summary

Client: Peak Environmental
Project: Ridgewood

Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-14 (Soil) Sample Name: **STP-7** Collected: **10/10/2018 12:00:00AM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
1,1,1-Trichloroethane	ND	U	0.000133	0.000912	mg/kg	1	10/10/18 22:59
1,1,2,2-Tetrachloroethane	ND	U	0.000126	0.000912	mg/kg	1	10/10/18 22:59
1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	U	0.000390	0.000912	mg/kg	1	10/10/18 22:59
1,1,2-Trichloroethane	ND	U	0.000154	0.000912	mg/kg	1	10/10/18 22:59
1,1-Dichloroethane	ND	U	0.000133	0.000912	mg/kg	1	10/10/18 22:59
1,1-Dichloroethene	ND	U	0.000169	0.000912	mg/kg	1	10/10/18 22:59
1,2,3-Trichlorobenzene	ND	U	0.000197	0.000912	mg/kg	1	10/10/18 22:59
1,2,4-Trichlorobenzene	ND	U	0.000243	0.000912	mg/kg	1	10/10/18 22:59
1,2,4-Trimethylbenzene	ND	U	0.000126	0.000912	mg/kg	1	10/10/18 22:59
1,2-Dibromo-3-chloropropane	ND	U	0.000222	0.000912	mg/kg	1	10/10/18 22:59
1,2-Dibromoethane	ND	U	0.000115	0.000912	mg/kg	1	10/10/18 22:59
1,2-Dichlorobenzene	ND	U	0.000161	0.000912	mg/kg	1	10/10/18 22:59
1,2-Dichloroethane	ND	U	0.000129	0.000912	mg/kg	1	10/10/18 22:59
1,2-Dichloropropane	ND	U	0.000150	0.000912	mg/kg	1	10/10/18 22:59
1,3-Dichlorobenzene	ND	U	0.0000670	0.000912	mg/kg	1	10/10/18 22:59
1,4-Dichlorobenzene	ND	U	0.000131	0.000912	mg/kg	1	10/10/18 22:59
2-Butanone	ND	U	0.000149	0.00228	mg/kg	1	10/10/18 22:59
2-Hexanone	ND	U	0.0000853	0.000912	mg/kg	1	10/10/18 22:59
4-Methyl-2-pentanone	ND	U	0.000114	0.000912	mg/kg	1	10/10/18 22:59
Acetone	ND	U	0.000276	0.00228	mg/kg	1	10/10/18 22:59
Benzene	ND	U	0.0000830	0.000912	mg/kg	1	10/10/18 22:59
Bromochloromethane	ND	U	0.000168	0.000912	mg/kg	1	10/10/18 22:59
Bromodichloromethane	ND	U	0.000114	0.000912	mg/kg	1	10/10/18 22:59
Bromoform	ND	U	0.000160	0.000912	mg/kg	1	10/10/18 22:59
Bromomethane	ND	U	0.000263	0.000912	mg/kg	1	10/10/18 22:59
Carbon disulfide	ND	U	0.000131	0.000912	mg/kg	1	10/10/18 22:59
Carbon Tetrachloride	ND	U	0.000137	0.000912	mg/kg	1	10/10/18 22:59
Chlorobenzene	ND	U	0.000132	0.000912	mg/kg	1	10/10/18 22:59
Chlorodibromomethane	ND	U	0.000112	0.000912	mg/kg	1	10/10/18 22:59
Chloroethane	ND	U	0.000155	0.000912	mg/kg	1	10/10/18 22:59
Chloroform	ND	U	0.000153	0.000912	mg/kg	1	10/10/18 22:59
Chloromethane	ND	U	0.000351	0.000912	mg/kg	1	10/10/18 22:59
cis-1,2-Dichloroethene	ND	U	0.0000441	0.000912	mg/kg	1	10/10/18 22:59
cis-1,3-Dichloropropene	ND	U	0.000115	0.000912	mg/kg	1	10/10/18 22:59
Cyclohexane	ND	U	0.000202	0.000912	mg/kg	1	10/10/18 22:59
Dichlorodifluoromethane	ND	U	0.000308	0.000912	mg/kg	1	10/10/18 22:59
EthylBenzene	ND	U	0.000124	0.000912	mg/kg	1	10/10/18 22:59
Isopropylbenzene	ND	U	0.000143	0.000912	mg/kg	1	10/10/18 22:59

ND - Indicates compound analyzed for but not detected
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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

All Results Summary

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452
Date to Lab: 10/10/2018 3:40:00PM

8100452-14 (Soil) Sample Name: **STP-7** Collected: **10/10/2018 12:00:00AM**

SW 846 8260C - Volatile Organics - GC/MS - VO+15 (con't)

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
m+p-Xylenes	ND	U	0.000230	0.00182	mg/kg	1	10/10/18 22:59
Methyl Acetate	ND	U	0.000121	0.000912	mg/kg	1	10/10/18 22:59
Methyl tert-Butyl Ether	ND	U	0.000154	0.000912	mg/kg	1	10/10/18 22:59
Methylcyclohexane	ND	U	0.000147	0.000912	mg/kg	1	10/10/18 22:59
Methylene Chloride	ND	U	0.000274	0.000912	mg/kg	1	10/10/18 22:59
o-Xylene	ND	U	0.000117	0.000912	mg/kg	1	10/10/18 22:59
Styrene	ND	U	0.000130	0.000912	mg/kg	1	10/10/18 22:59
tert-Butyl alcohol	ND	U	0.00191	0.00912	mg/kg	1	10/10/18 22:59
Tetrachloroethene	ND	U	0.0000903	0.000912	mg/kg	1	10/10/18 22:59
Toluene	ND	U	0.0000734	0.000912	mg/kg	1	10/10/18 22:59
Total Xylenes	ND	U	0.000117	0.000912	mg/kg	1	10/10/18 22:59
trans-1,2-Dichloroethene	ND	U	0.000124	0.000912	mg/kg	1	10/10/18 22:59
trans-1,3-Dichloropropene	ND	U	0.000174	0.000912	mg/kg	1	10/10/18 22:59
Trichloroethene	ND	U	0.000134	0.000912	mg/kg	1	10/10/18 22:59
Trichlorofluoromethane	ND	U	0.000105	0.000912	mg/kg	1	10/10/18 22:59
Vinyl chloride	ND	U	0.000173	0.000912	mg/kg	1	10/10/18 22:59

SW 846 8260C - Volatile Organics - GC/MS - VO+15 - TIC

Tentitively Identified Compound	Est Conc	RT	Qual	Units	Dilution	Analyzed
No TICs Found						

Gravimetric - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	**92.9**				**%**	**1**	**10/11/18 10:54**

SW 846 9014 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Cyanide	ND		0.0807	0.269	mg/kg	1	10/11/18 13:30

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MDL - Minimum detection limit
RL - Reporting limit

PCBs

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

PCBs - SW 846 8082A

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1064-BLK1**		

Init/Final Vol:	15 g / 10 mL	Prep Date:	10/10/2018 16:36	File ID:	6B23444.D
		Prep Batch:	B8J1064	Analyzed:	10/12/2018 19:13
		Matrix:	Soil	Sequence:	S8J1201
		Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	ND	0.000588	0.0330	U
11104-28-2	Aroclor-1221	ND	0.00102	0.0330	U
11141-16-5	Aroclor-1232	ND	0.000777	0.0330	U
53469-21-9	Aroclor-1242	ND	0.00112	0.0330	U
12672-29-6	Aroclor-1248	ND	0.000774	0.0330	U
11097-69-1	Aroclor-1254	ND	0.00118	0.0330	U
11096-82-5	Aroclor-1260	ND	0.000870	0.0330	U
37324-23-5	Aroclor-1262	ND	0.00127	0.0330	U
11100-14-4	Aroclor-1268	ND	0.000667	0.0330	U
1336-36-3	Total PCBs	ND	0.000588	0.0330	U

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181012\6B23444.D\ECD1A.CH Vial: 24
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181012\6B23444.D\ECD2B.CH
Acq On : 12 Oct 2018 19:13 Operator: RL
Sample : B8J1064-BLK1 Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 13 11:39 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.25	5.25	741.2E6	252.5E6	61.566m	50.512
Spiked Amount 50.000	Range 40 - 149		Recovery =		123.13%	101.02%
2) S Decachlorobiphen	16.00	20.24	526.2E6	231.2E6	48.066	43.780
Spiked Amount 50.000	Range 52 - 136		Recovery =		96.13%	87.56%
Target Compounds						
Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

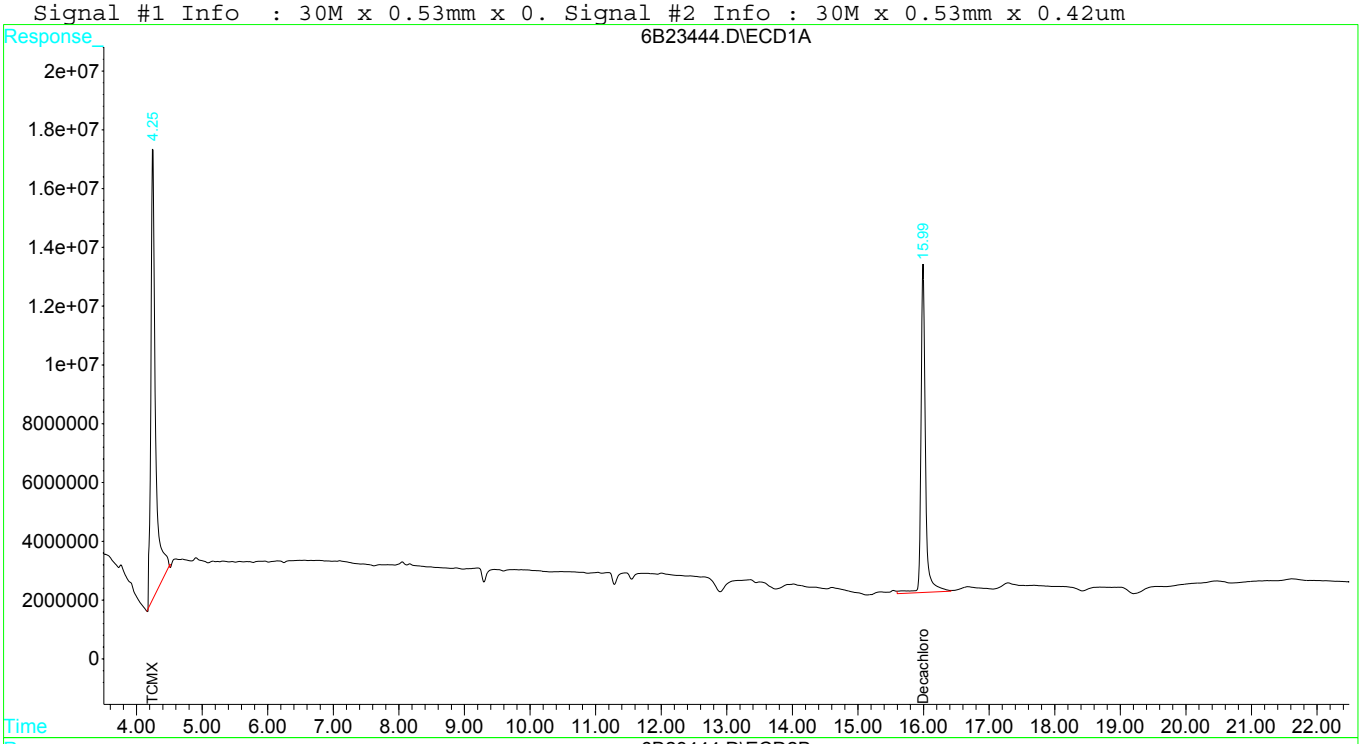
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

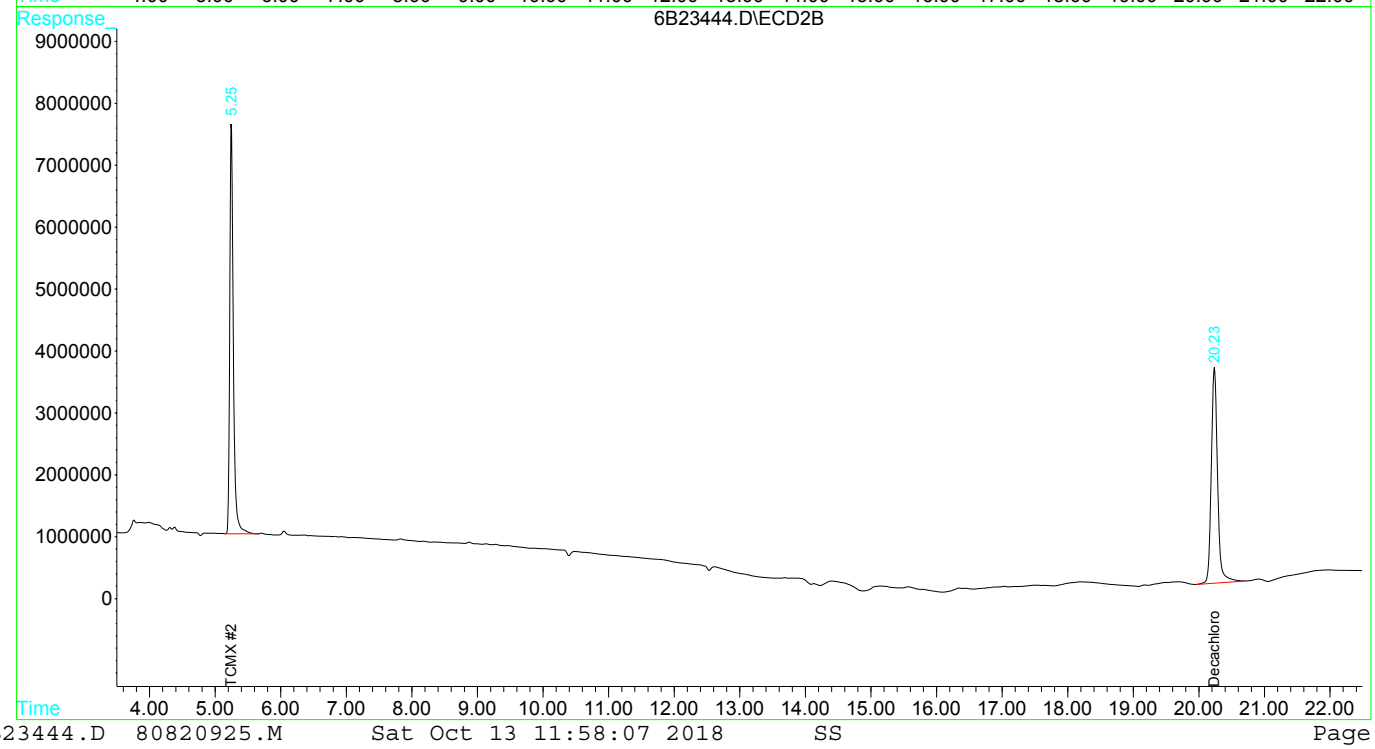
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181012\6B23444.D\ECD1A.CH Vial: 24
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181012\6B23444.D\ECD2B.CH
Acq On : 12 Oct 2018 19:13 Operator: RL
Sample : B8J1064-BLK1 Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 13 11:39 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

PCBs - SW 846 8082A

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 16:36	File ID:	6B23378.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1064	Analyzed:	10/11/18 14:00
Dilution:	1	Matrix:	Soil	Sequence:	S8J1113
Percent Solids:	89.91	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	ND	0.000654	0.0367	U
11104-28-2	Aroclor-1221	ND	0.00113	0.0367	U
11141-16-5	Aroclor-1232	ND	0.000864	0.0367	U
53469-21-9	Aroclor-1242	ND	0.00125	0.0367	U
12672-29-6	Aroclor-1248	ND	0.000861	0.0367	U
11097-69-1	Aroclor-1254	ND	0.00131	0.0367	U
11096-82-5	Aroclor-1260	ND	0.000968	0.0367	U
37324-23-5	Aroclor-1262	ND	0.00142	0.0367	U
11100-14-4	Aroclor-1268	ND	0.000742	0.0367	U
1336-36-3	Total PCBs	ND	0.000654	0.0367	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23378.D\ECD1A.CH Vial: 1
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23378.D\ECD2B.CH
Acq On : 11 Oct 2018 14:00 Operator: RL
Sample : 8100452-01 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 14:29 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.26	5.25	619.8E6	251.3E6	51.480	50.260
Spiked Amount 50.000	Range 40 - 149		Recovery =		102.96%	100.52%
2) S Decachlorobiphen	15.99	20.23	437.6E6	200.8E6	39.976	38.024
Spiked Amount 50.000	Range 52 - 136		Recovery =		79.95%	76.05%
Target Compounds						
Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

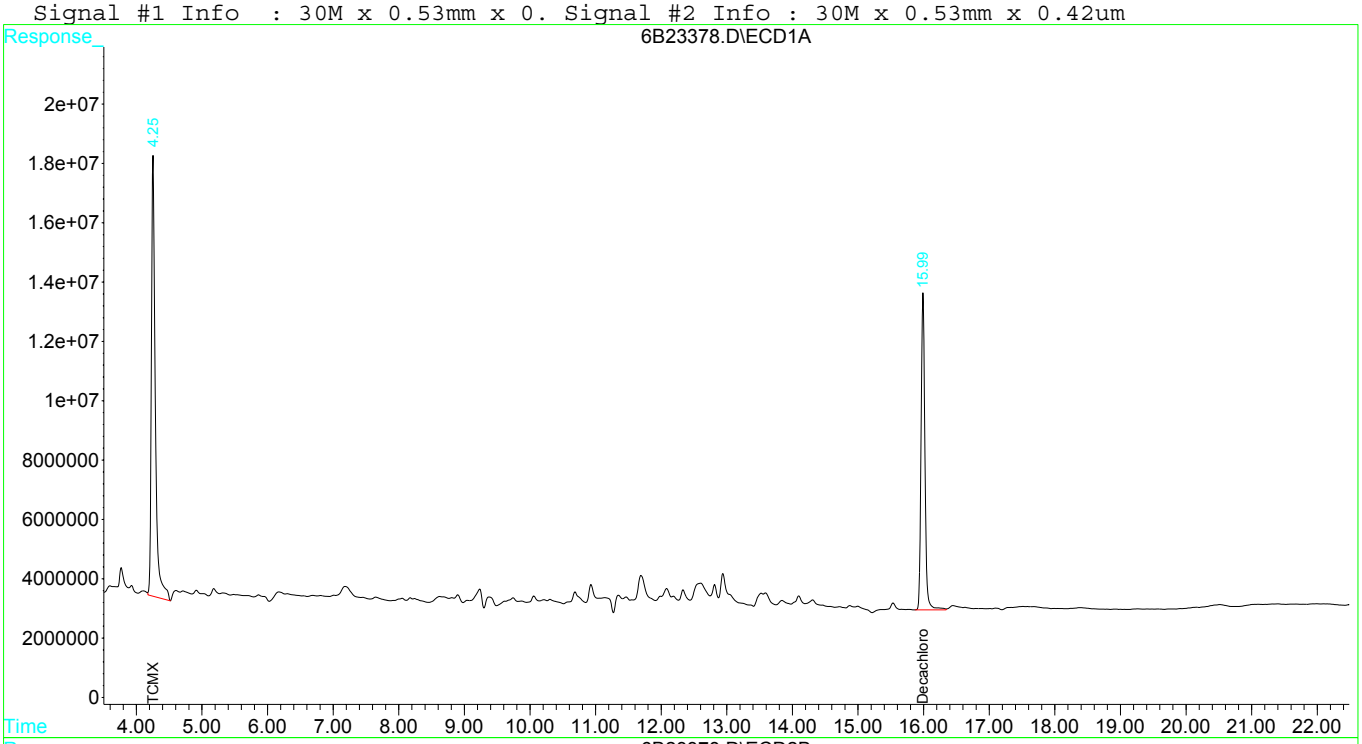
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
6B23378.D 80820925.M Thu Oct 11 15:34:58 2018 SS Page 1

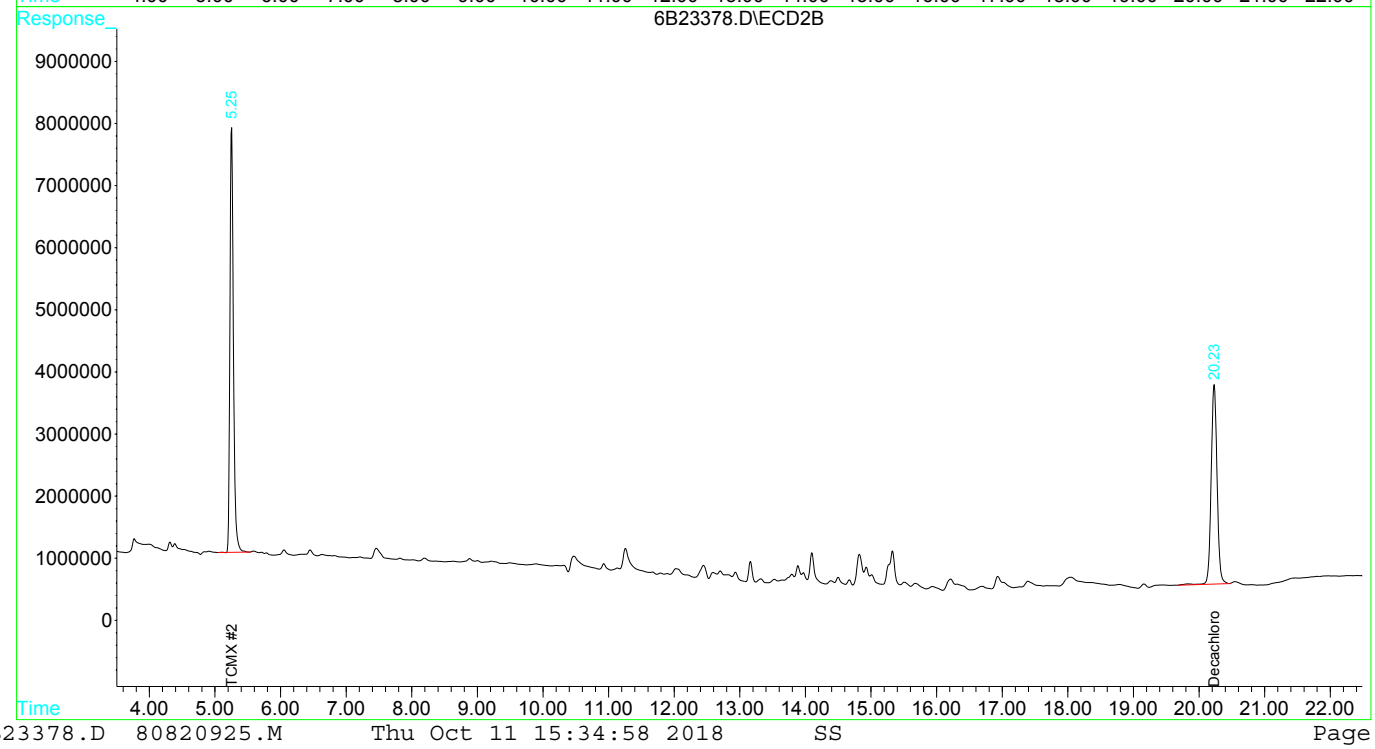
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23378.D\ECD1A.CH Vial: 1
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23378.D\ECD2B.CH
Acq On : 11 Oct 2018 14:00 Operator: RL
Sample : 8100452-01 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 14:29 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

PCBs - SW 846 8082A

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/10/18 16:36	File ID:	6B23379.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1064	Analyzed:	10/11/18 14:26
Dilution:	1	Matrix:	Soil	Sequence:	S8J1113
Percent Solids:	87.70	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	ND	0.000670	0.0376	U
11104-28-2	Aroclor-1221	ND	0.00116	0.0376	U
11141-16-5	Aroclor-1232	ND	0.000886	0.0376	U
53469-21-9	Aroclor-1242	ND	0.00128	0.0376	U
12672-29-6	Aroclor-1248	ND	0.000883	0.0376	U
11097-69-1	Aroclor-1254	ND	0.00134	0.0376	U
11096-82-5	Aroclor-1260	ND	0.000992	0.0376	U
37324-23-5	Aroclor-1262	ND	0.00145	0.0376	U
11100-14-4	Aroclor-1268	ND	0.000761	0.0376	U
1336-36-3	Total PCBs	ND	0.000670	0.0376	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23379.D\ECD1A.CH Vial: 2
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23379.D\ECD2B.CH
Acq On : 11 Oct 2018 14:26 Operator: RL
Sample : 8100452-06 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:33 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.26	5.26	639.9E6	252.5E6	53.149	50.502
Spiked Amount 50.000	Range 40 - 149		Recovery =		106.30%	101.00%
2) S Decachlorobiphen	15.99	20.24	427.4E6	206.9E6	39.042	39.167
Spiked Amount 50.000	Range 52 - 136		Recovery =		78.08%	78.33%
Target Compounds						
Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

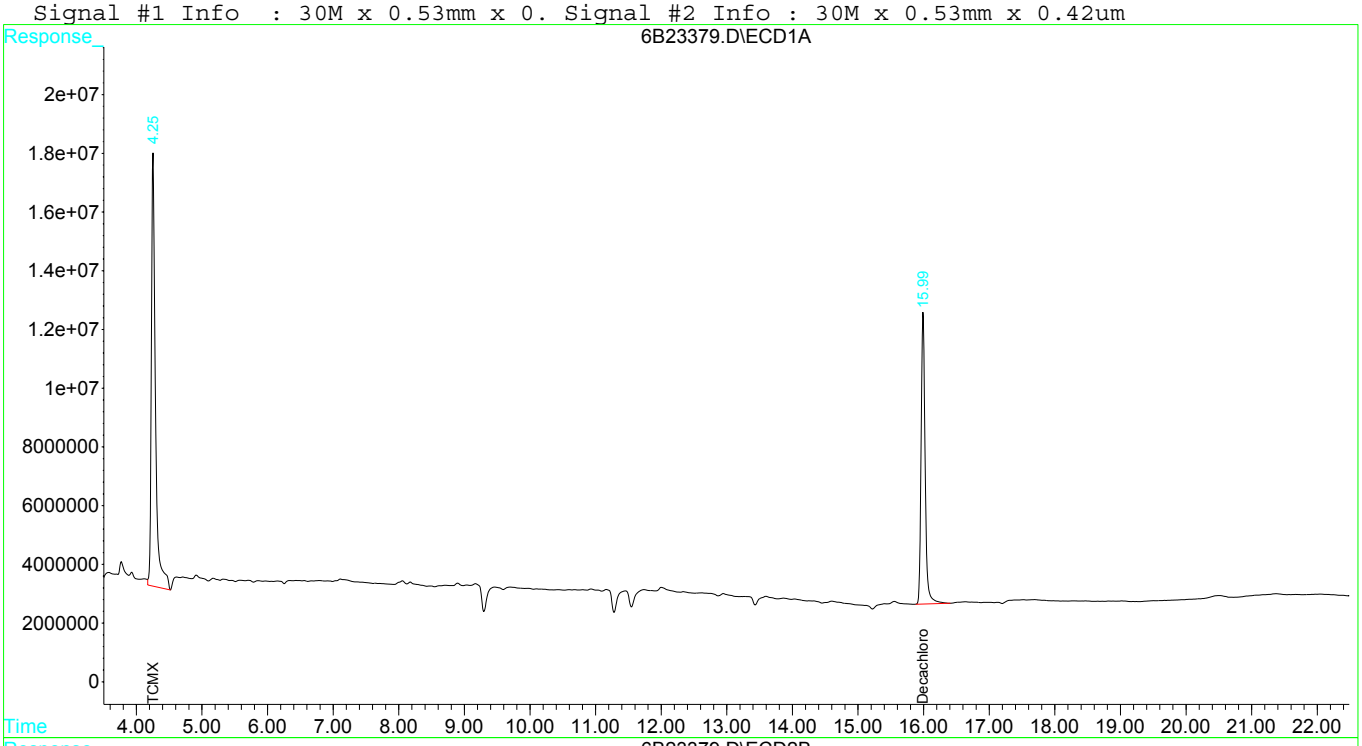
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
6B23379.D 80820925.M Thu Oct 11 15:35:00 2018 SS

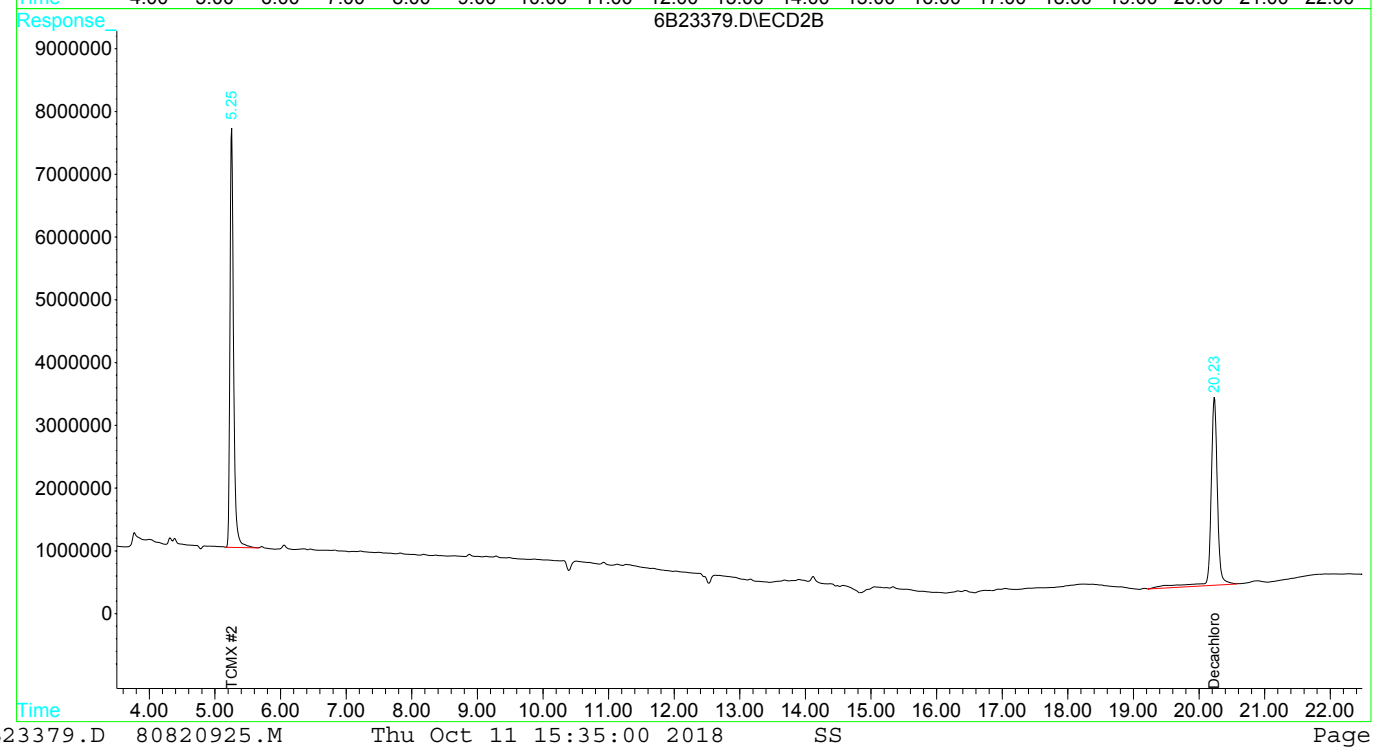
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23379.D\ECD1A.CH Vial: 2
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23379.D\ECD2B.CH
Acq On : 11 Oct 2018 14:26 Operator: RL
Sample : 8100452-06 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:33 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

PCBs - SW 846 8082A

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 16:36	File ID:	6B23380.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1064	Analyzed:	10/11/18 14:52
Dilution:	1	Matrix:	Soil	Sequence:	S8J1113
Percent Solids:	91.70	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	ND	0.000641	0.0360	U
11104-28-2	Aroclor-1221	ND	0.00111	0.0360	U
11141-16-5	Aroclor-1232	ND	0.000847	0.0360	U
53469-21-9	Aroclor-1242	ND	0.00122	0.0360	U
12672-29-6	Aroclor-1248	ND	0.000844	0.0360	U
11097-69-1	Aroclor-1254	ND	0.00128	0.0360	U
11096-82-5	Aroclor-1260	ND	0.000949	0.0360	U
37324-23-5	Aroclor-1262	ND	0.00139	0.0360	U
11100-14-4	Aroclor-1268	ND	0.000727	0.0360	U
1336-36-3	Total PCBs	ND	0.000641	0.0360	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23380.D\ECD1A.CH Vial: 3
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23380.D\ECD2B.CH
Acq On : 11 Oct 2018 14:52 Operator: RL
Sample : 8100452-12 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:34 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.26	5.26	675.3E6	267.9E6	56.089	53.582
Spiked Amount 50.000	Range 40 - 149		Recovery =		112.18%	107.16%
2) S Decachlorobiphen	16.00	20.24	455.0E6	223.6E6	41.566	42.335
Spiked Amount 50.000	Range 52 - 136		Recovery =		83.13%	84.67%
Target Compounds						
Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

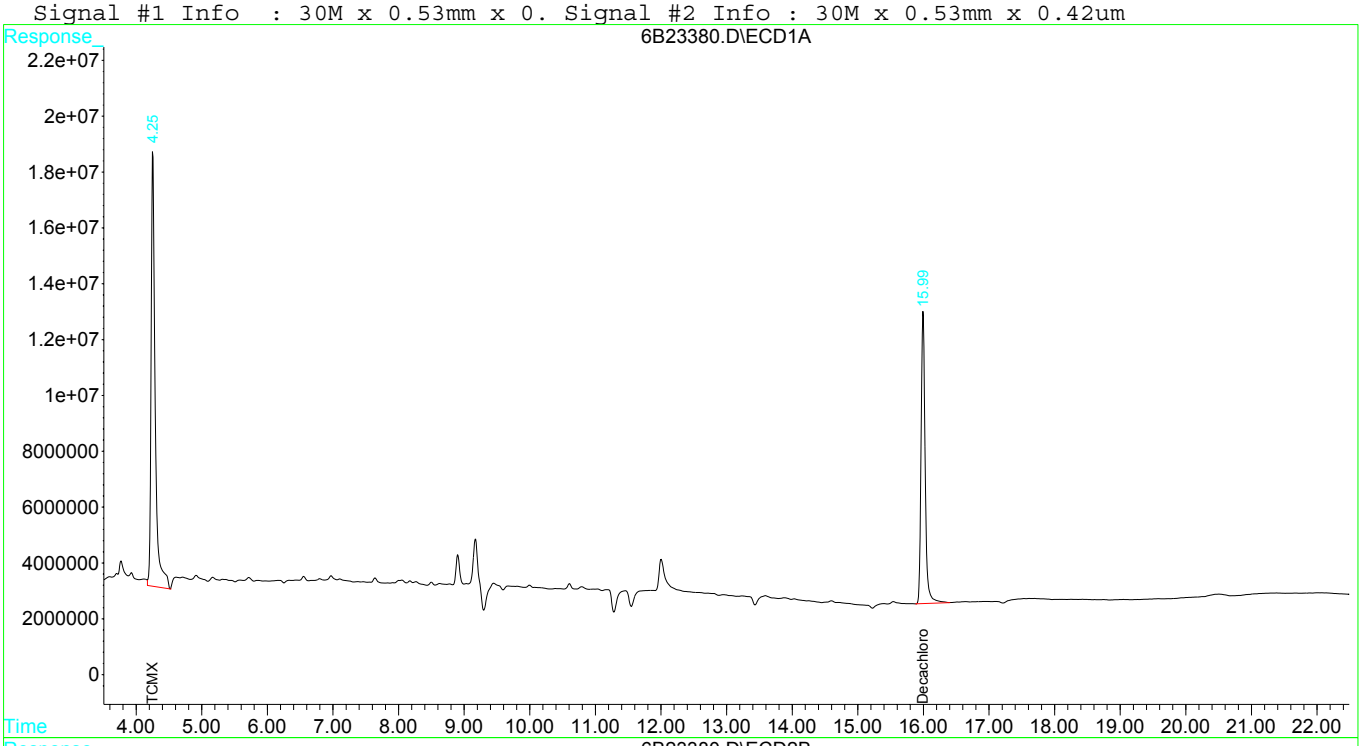
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
6B23380.D 80820925.M Thu Oct 11 15:35:02 2018 SS

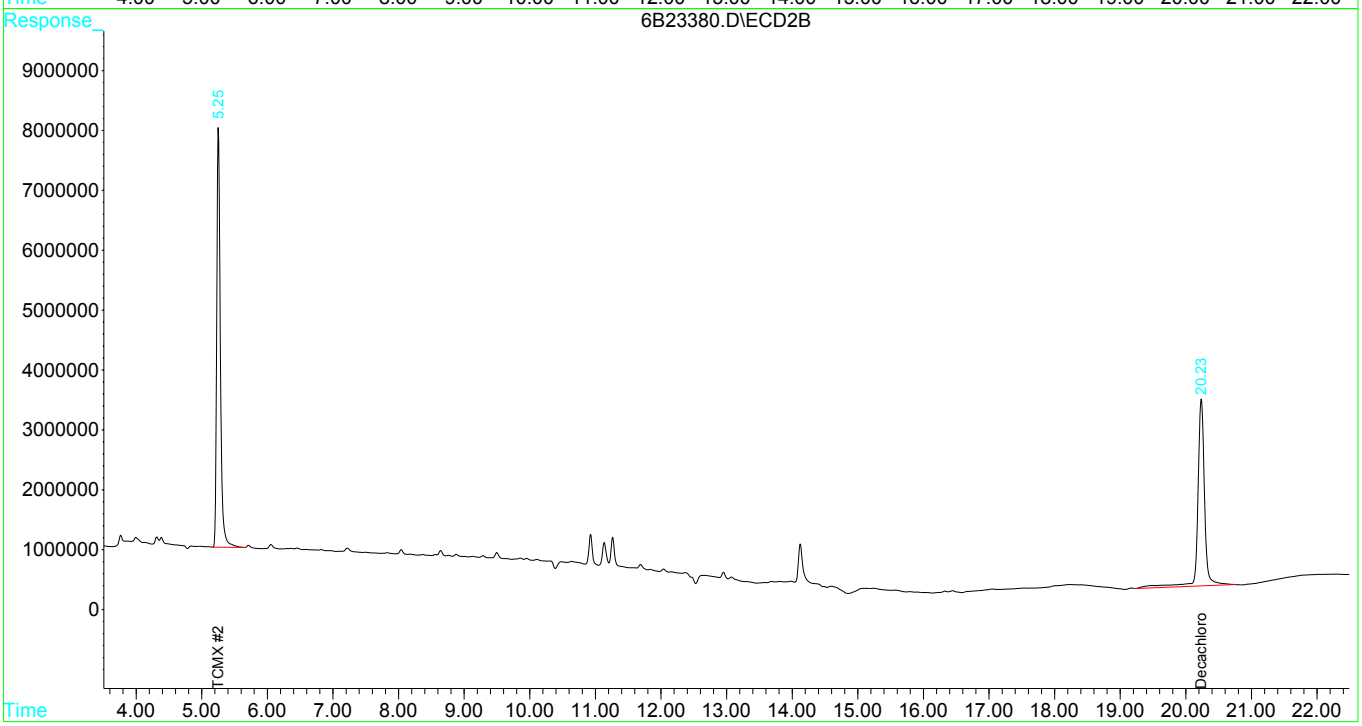
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23380.D\ECD1A.CH Vial: 3
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23380.D\ECD2B.CH
Acq On : 11 Oct 2018 14:52 Operator: RL
Sample : 8100452-12 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:34 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

PCBs - SW 846 8082A

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 16:36	File ID:	6B23381.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1064	Analyzed:	10/11/18 15:17
Dilution:	1	Matrix:	Soil	Sequence:	S8J1113
Percent Solids:	92.94	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	ND	0.000633	0.0355	U
11104-28-2	Aroclor-1221	ND	0.00109	0.0355	U
11141-16-5	Aroclor-1232	ND	0.000836	0.0355	U
53469-21-9	Aroclor-1242	ND	0.00121	0.0355	U
12672-29-6	Aroclor-1248	ND	0.000833	0.0355	U
11097-69-1	Aroclor-1254	ND	0.00127	0.0355	U
11096-82-5	Aroclor-1260	ND	0.000936	0.0355	U
37324-23-5	Aroclor-1262	ND	0.00137	0.0355	U
11100-14-4	Aroclor-1268	ND	0.000718	0.0355	U
1336-36-3	Total PCBs	ND	0.000633	0.0355	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23381.D\ECD1A.CH Vial: 4
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23381.D\ECD2B.CH
Acq On : 11 Oct 2018 15:17 Operator: RL
Sample : 8100452-14 Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:41 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.26	5.26	695.1E6	276.6E6	57.731	55.327
Spiked Amount 50.000	Range 40 - 149		Recovery =		115.46%	110.65%
2) S Decachlorobiphen	16.00	20.24	478.6E6	231.8E6	43.722	43.890
Spiked Amount 50.000	Range 52 - 136		Recovery =		87.44%	87.78%
Target Compounds						
Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

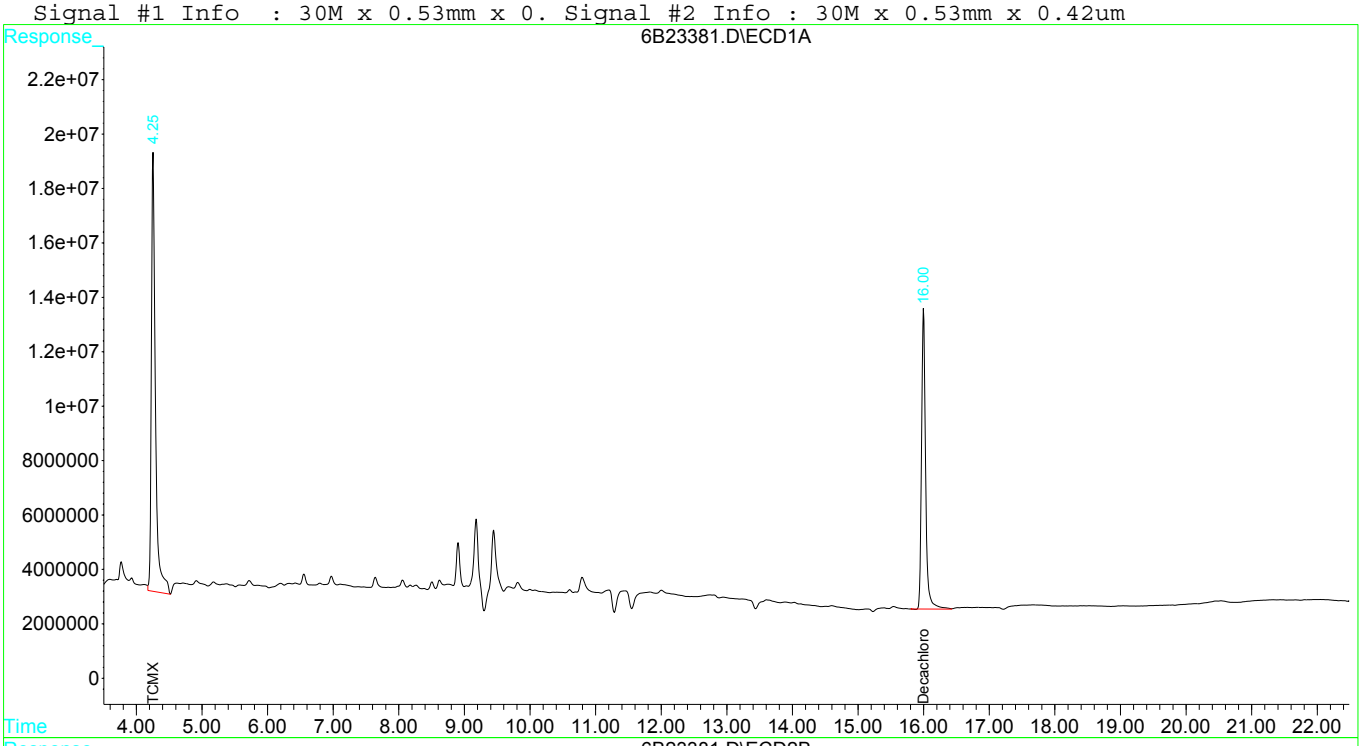
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
6B23381.D 80820925.M Thu Oct 11 15:42:00 2018 SS

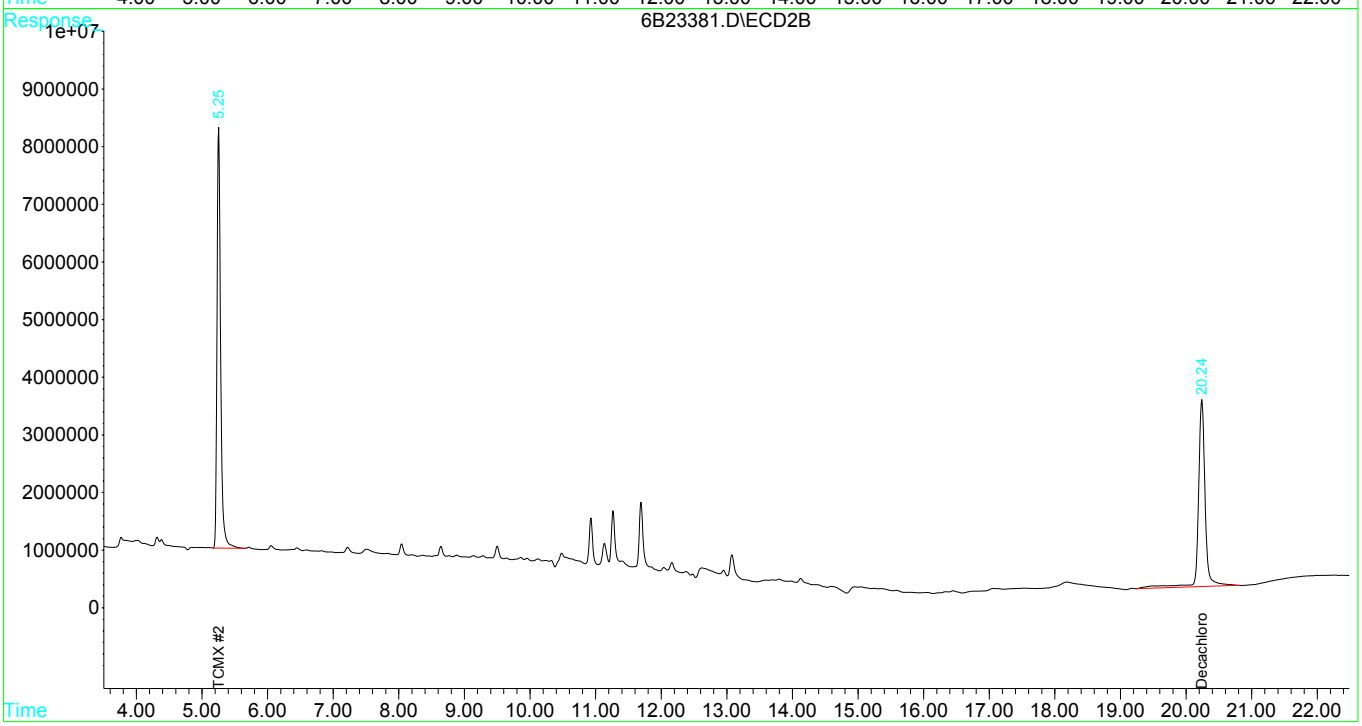
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23381.D\ECD1A.CH Vial: 4
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23381.D\ECD2B.CH
Acq On : 11 Oct 2018 15:17 Operator: RL
Sample : 8100452-14 Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:41 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





SURROGATE RECOVERIES

Analysis Class: PCBs

Matrix: Soil **Method:** SW 846 8082A

PCBs

Lab Number	File ID	TCMX	DCB	TCMX[2C]	DCB[2C]
8100452-01	6B23378.D	103	80.0	101	76.0
8100452-06	6B23379.D	106	78.1	101	78.3
8100452-12	6B23380.D	112	83.1	107	84.7
8100452-14	6B23381.D	115	87.4	111	87.8
B8J1064-BLK1	6B23444.D	123	96.1	101	87.6
B8J1064-BS1	6B23445.D	120	95.2	105	90.8
B8J1064-MS1	6B23446.D	101	93.6	94.5	93.1
B8J1064-MSD1	6B23447.D	107	91.2	101	94.3

Surrogate Limits		Lo Limit	Hi Limit
TCMX	Tetrachloro-m-xylene	40.2	149
DCB	Decachlorobiphenyl	52.1	136
TCMX[2C]	Tetrachloro-m-xylene [2C]	40.2	149
DCB[2C]	Decachlorobiphenyl [2C]	52.1	136

F-II

* - Outside of QC Limits

Batch B8J1064 **Method: SW 846 8082A** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1064-BS1		Aroclor-1016	0.345	mg/kg wet	0.333		104	87.3-144		
B8J1064-BS1		Aroclor-1260	0.322	mg/kg wet	0.333		96.6	68.3-160		

Batch B8J1064 (cont.) **Method: SW 846 8082A** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1064-MS1	8100452-01	Aroclor-1016	0.353	mg/kg dry	0.371	ND	95.3	74.4-141		
B8J1064-MS1	8100452-01	Aroclor-1260	0.384	mg/kg dry	0.371	ND	104	64.5-133		

Batch B8J1064 (cont.) **Method: SW 846 8082A** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1064-MSD1	8100452-01	Aroclor-1016	0.405	mg/kg dry	0.371	ND	109	74.4-141	13.6	30
B8J1064-MSD1	8100452-01	Aroclor-1260	0.417	mg/kg dry	0.371	ND	112	64.5-133	8.12	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

METHOD BLANK SUMMARY

Batch ID: **B8J1064**

Lab Number	Sample Id	Extraction Date	Analysis Date
B8J1064-BLK1	BLK1	10/10/2018	10/12/2018 19:13
B8J1064-BS1	BS1	10/10/2018	10/12/2018 19:39
B8J1064-MS1	MS1	10/10/2018	10/12/2018 20:04
B8J1064-MSD1	MSD1	10/10/2018	10/12/2018 20:30
8100452-01	NTP-1A	10/10/2018	10/11/2018 14:00
8100452-06	NTP-6	10/10/2018	10/11/2018 14:26
8100452-12	STP-4B	10/10/2018	10/11/2018 14:52
8100452-14	STP-7	10/10/2018	10/11/2018 15:17

SURROGATE RT DRIFT REPORT

Analysis Class: PCBs

Sequence : S8J1113

		TCMX			DCB			TCMX[2C]			DCB[2C]		
Lab Number	File ID	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift
8100452-01	6B23378.D	4.26	4.26	0.00	15.99	16	-0.01	5.25	5.25	0.00	20.23	20.24	-0.01
8100452-06	6B23379.D	4.26	4.26	0.00	15.99	16	-0.01	5.26	5.25	0.01	20.24	20.24	0.00
8100452-12	6B23380.D	4.26	4.26	0.00	16	16	0.00	5.26	5.25	0.01	20.24	20.24	0.00
8100452-14	6B23381.D	4.26	4.26	0.00	16	16	0.00	5.26	5.25	0.01	20.24	20.24	0.00

Sequence : S8J1201

		TCMX			DCB			TCMX[2C]			DCB[2C]		
Lab Number	File ID	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift
B8J1064-BLK1	6B23444.D	4.25	4.25	0.00	16	15.99	0.01	5.25	5.25	0.00	20.24	20.24	0.00
B8J1064-BS1	6B23445.D	4.25	4.25	0.00	16	15.99	0.01	5.25	5.25	0.00	20.24	20.24	0.00
B8J1064-MS1	6B23446.D	4.24	4.25	-0.01	15.99	15.99	0.00	5.25	5.25	0.00	20.23	20.24	-0.01
B8J1064-MSD1	6B23447.D	4.25	4.25	0.00	15.99	15.99	0.00	5.25	5.25	0.00	20.23	20.24	-0.01

Surrogate		Limit
TCMX	Tetrachloro-m-xylene	0.10
DCB	Decachlorobiphenyl	0.10
TCMX[2C]	Tetrachloro-m-xylene [2C]	0.10
DCB[2C]	Decachlorobiphenyl [2C]	0.10

DISS = Dissolved Analysis

F-V

Response Factor Report GCECD-6

Method : G:\HPCHEM\GCECD6\METHODS\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018

Calibration Files
50 =6B22802.D 250 =6B22801.D 500 =6B22800.D
1000 =6B22799.D 2000 =6B22798.D

		Compound	50	250	500	1000	2000	Avg		%RSD
1)	S	TCMX	1.124	1.199	1.193	1.228	1.275	1.204	E7	4.58
2)	S	Decachlorobiphenyl	0.930	1.183	1.128	1.109	1.123	1.095	E7	8.78
3)	L3	Aroclor-1016 (1)	1.979	2.211	2.129	2.181	2.089	2.118	E5	4.27
4)	L3	Aroclor-1016 (2)	4.448	4.498	4.239	4.324	4.110	4.324	E5	3.63
5)	L3	Aroclor-1016 (3)	3.034	3.281	3.048	3.173	3.022	3.112	E5	3.62
6)	L3	Aroclor-1016 (4)	1.132	1.110	1.030	1.033	1.029	1.067	E6	4.70
7)	L3	Aroclor-1016 (5)	4.759	4.462	4.073	4.023	3.890	4.241	E5	8.47
8)	L4	Aroclor-1221 (1)					1.229	1.229	E5	0.00
9)	L4	Aroclor-1221 (2)					6.008	6.008	E4	0.00
10)	L4	Aroclor-1221 (3)					3.598	3.598	E5	0.00
11)	L5	Aroclor-1232 (1)					1.296	1.296	E5	0.00
12)	L5	Aroclor-1232 (2)					3.529	3.529	E5	0.00
13)	L5	Aroclor-1232 (3)					1.554	1.554	E5	0.00
14)	L5	Aroclor-1232 (4)					1.190	1.190	E5	0.00
15)	L6	Aroclor-1242 (1)					3.538	3.538	E5	0.00
16)	L6	Aroclor-1242 (2)					2.371	2.371	E5	0.00
17)	L6	Aroclor-1242 (3)					8.487	8.487	E5	0.00
18)	L6	Aroclor-1242 (4)					2.887	2.887	E5	0.00
19)	L6	Aroclor-1242 (5)					2.666	2.666	E5	0.00
20)	L7	Aroclor-1248 (1)					1.511	1.511	E5	0.00
21)	L7	Aroclor-1248 (2)					4.275	4.275	E5	0.00
22)	L7	Aroclor-1248 (3)					5.986	5.986	E5	0.00
23)	L7	Aroclor-1248 (4)					4.502	4.502	E5	0.00
24)	L8	Aroclor-1254 (1)					7.957	7.957	E5	0.00
25)	L8	Aroclor-1254 (2)					6.157	6.157	E5	0.00
26)	L8	Aroclor-1254 (3)					6.310	6.310	E5	0.00
27)	L8	Aroclor-1254 (4)					8.613	8.613	E5	0.00
28)	L9	Aroclor-1260 (1)	5.536	6.418	5.741	5.855	5.372	5.784	E5	6.92
29)	L9	Aroclor-1260 (2)	1.027	1.323	1.209	1.245	1.207	1.202	E6	9.05
30)	L9	Aroclor-1260 (3)	0.934	1.060	0.989	1.020	0.998	1.000	E6	4.61
31)	L9	Aroclor-1260 (4)	1.396	1.728	1.665	1.717	1.735	1.648	E6	8.72
32)	L9	Aroclor-1260 (5)	4.232	3.743	3.701	3.780	4.055	3.902	E5	5.92
33)	L1	Aroclor-1262 (1)					6.160	6.160	E5	0.00
34)	L1	Aroclor-1262 (2)					5.399	5.399	E5	0.00
35)	L1	Aroclor-1262 (3)					2.370	2.370	E6	0.00
36)	L2	Aroclor-1268 (1)					6.571	6.571	E5	0.00
37)	L2	Aroclor-1268 (2)					5.099	5.099	E6	0.00
38)	L2	Aroclor-1268 (3)					1.047	1.047	E6	0.00

Signal #2 Calibration Files
50 =6B22802.D 250 =6B22801.D 500 =6B22800.D
1000 =6B22799.D 2000 =6B22798.D

		Compound	50	250	500	1000	2000	Avg		%RSD
1)	S	TCMX	4.211	5.014	5.084	5.206	5.481	4.999	E6	9.51
2)	S	Decachlorobiphenyl	5.488	5.746	4.805	5.093	5.277	5.282	E6	6.83
3)	L3	Aroclor-1016 (1)	9.455	9.385	8.910	8.628	8.478	8.971	E4	4.89
4)	L3	Aroclor-1016 (2)	1.996	1.958	1.792	1.706	1.667	1.824	E5	8.10
5)	L3	Aroclor-1016 (3)	8.050	8.007	7.654	7.437	7.124	7.654	E4	5.10
6)	L3	Aroclor-1016 (4)	4.199	4.250	3.998	3.942	3.977	4.073	E5	3.46
7)	L3	Aroclor-1016 (5)	1.686	1.816	1.745	1.699	1.631	1.716	E5	4.05
8)	L4	Aroclor-1221 (1)					5.255	5.255	E4	0.00
9)	L4	Aroclor-1221 (2)					3.282	3.282	E4	0.00
10)	L4	Aroclor-1221 (3)					1.320	1.320	E5	0.00
11)	L5	Aroclor-1232 (1)					1.053	1.053	E5	0.00
12)	L5	Aroclor-1232 (2)					7.772	7.772	E4	0.00
13)	L5	Aroclor-1232 (3)					1.715	1.715	E5	0.00
14)	L5	Aroclor-1232 (4)					7.694	7.694	E4	0.00
15)	L6	Aroclor-1242 (1)					1.395	1.395	E5	0.00
16)	L6	Aroclor-1242 (2)					3.269	3.269	E5	0.00

(#) = Out of Range

Response Factor Report GCECD-6

Method : G:\HPCHEM\GCECD6\METHODS\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018

Calibration Files
50 =6B22802.D 250 =6B22801.D 500 =6B22800.D
1000 =6B22799.D 2000 =6B22798.D

		Compound	50	250	500	1000	2000	Avg		%RSD
17)	L6	Aroclor-1242 (3)						1.415	E5	0.00
18)	L6	Aroclor-1242 (4)						4.403	E4	0.00
19)	L6	Aroclor-1242 (5)						1.351	E5	0.00
20)	L7	Aroclor-1248 (1)						7.096	E4	0.00
21)	L7	Aroclor-1248 (2)						1.874	E5	0.00
22)	L7	Aroclor-1248 (3)						5.568	E4	0.00
23)	L7	Aroclor-1248 (4)						1.854	E5	0.00
24)	L8	Aroclor-1254 (1)						2.440	E5	0.00
25)	L8	Aroclor-1254 (2)						1.577	E5	0.00
26)	L8	Aroclor-1254 (3)						1.391	E5	0.00
27)	L8	Aroclor-1254 (4)						2.902	E5	0.00
28)	L9	Aroclor-1260 (1)	2.385	2.235	2.018	1.951	1.962	2.110	E5	9.08
29)	L9	Aroclor-1260 (2)	2.687	2.878	2.644	2.552	2.613	2.675	E5	4.63
30)	L9	Aroclor-1260 (3)	2.473	2.492	2.324	2.291	2.374	2.391	E5	3.73
31)	L9	Aroclor-1260 (4)	2.429	2.129	2.080	2.096	2.198	2.187	E5	6.54
32)	L9	Aroclor-1260 (5)	6.170	5.259	5.378	5.260	5.513	5.516	E5	6.90
33)	L1	Aroclor-1262 (1)						1.505	E5	0.00
34)	L1	Aroclor-1262 (2)						2.912	E5	0.00
35)	L1	Aroclor-1262 (3)						7.018	E5	0.00
36)	L2	Aroclor-1268 (1)						2.827	E5	0.00
37)	L2	Aroclor-1268 (2)						2.413	E6	0.00
38)	L2	Aroclor-1268 (3)						4.433	E5	0.00

(#) = Out of Range

Compound List Report GCECD-6

Method : G:\HPCHEM\GCECD6\METHODS\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
Total Cpnds : 77

PK#	Type	Compound Name	Exp RT	Rel RT	Cal	A/H	ID
1	S	TCMX	4.25	1.000	A	A	B
2	S	Decachlorobiphenyl	16.00	1.000	A	A	B
3	L3	Aroclor-1016 (1)	4.85	1.000	A	A	B
4	L3	Aroclor-1016 (2)	5.47	1.000	A	A	B
5	L3	Aroclor-1016 (3)	5.85	1.000	A	A	B
6	L3	Aroclor-1016 (4)	6.40	1.000	A	A	B
7	L3	Aroclor-1016 (5)	6.65	1.000	A	A	B
8	L4	Aroclor-1221 (1)	4.53	1.000	A	A	B
9	L4	Aroclor-1221 (2)	4.78	1.000	A	A	B
10	L4	Aroclor-1221 (3)	4.85	1.000	A	A	B
11	L5	Aroclor-1232 (1)	5.85	1.000	A	A	B
12	L5	Aroclor-1232 (2)	6.40	1.000	A	A	B
13	L5	Aroclor-1232 (3)	7.04	1.000	A	A	B
14	L5	Aroclor-1232 (4)	7.45	1.000	A	A	B
15	L6	Aroclor-1242 (1)	5.47	1.000	A	A	B
16	L6	Aroclor-1242 (2)	5.85	1.000	A	A	B
17	L6	Aroclor-1242 (3)	6.39	1.000	A	A	B
18	L6	Aroclor-1242 (4)	7.45	1.000	A	A	B
19	L6	Aroclor-1242 (5)	7.64	1.000	A	A	B
20	L7	Aroclor-1248 (1)	5.46	1.000	A	A	B
21	L7	Aroclor-1248 (2)	6.39	1.000	A	A	B
22	L7	Aroclor-1248 (3)	7.04	1.000	A	A	B
23	L7	Aroclor-1248 (4)	7.45	1.000	A	A	B
24	L8	Aroclor-1254 (1)	9.68	1.000	A	A	B
25	L8	Aroclor-1254 (2)	10.34	1.000	A	A	B
26	L8	Aroclor-1254 (3)	10.68	1.000	A	A	B
27	L8	Aroclor-1254 (4)	11.32	1.000	A	A	B
28	L9	Aroclor-1260 (1)	10.05	1.000	A	A	B
29	L9	Aroclor-1260 (2)	10.68	1.000	A	A	B
30	L9	Aroclor-1260 (3)	11.33	1.000	A	A	B
31	L9	Aroclor-1260 (4)	12.82	1.000	A	A	B
32	L9	Aroclor-1260 (5)	14.89	1.000	A	A	B
33	L1	Aroclor-1262 (1)	11.65	1.000	A	A	B
34	L1	Aroclor-1262 (2)	12.20	1.000	A	A	B
35	L1	Aroclor-1262 (3)	12.82	1.000	A	A	B
36	L2	Aroclor-1268 (1)	14.88	1.000	A	A	B
37	L2	Aroclor-1268 (2)	15.54	1.000	A	A	B
38	L2	Aroclor-1268 (3)	16.00	1.000	A	A	B
39		Signal #2	34.78	1.000	A	A	B
40	S	TCMX #2	5.25	1.000	A	A	B
41	S	Decachlorobiphenyl #2	20.24	1.000	A	A	B
42	L3	Aroclor-1016 (1) #2	6.26	1.000	A	A	B
43	L3	Aroclor-1016 (2) #2	7.13	1.000	A	A	B
44	L3	Aroclor-1016 (3) #2	7.68	1.000	A	A	B
45	L3	Aroclor-1016 (4) #2	8.19	1.000	A	A	B
46	L3	Aroclor-1016 (5) #2	8.48	1.000	A	A	B
47	L4	Aroclor-1221 (1) #2	5.83	1.000	A	A	B
48	L4	Aroclor-1221 (2) #2	6.13	1.000	A	A	B
49	L4	Aroclor-1221 (3) #2	6.27	1.000	A	A	B
50	L5	Aroclor-1232 (1) #2	6.27	1.000	A	A	B
51	L5	Aroclor-1232 (2) #2	7.13	1.000	A	A	B
52	L5	Aroclor-1232 (3) #2	8.19	1.000	A	A	B
53	L5	Aroclor-1232 (4) #2	8.49	1.000	A	A	B
54	L6	Aroclor-1242 (1) #2	7.13	1.000	A	A	B
55	L6	Aroclor-1242 (2) #2	8.18	1.000	A	A	B
56	L6	Aroclor-1242 (3) #2	8.48	1.000	A	A	B
57	L6	Aroclor-1242 (4) #2	9.63	1.000	A	A	B
58	L6	Aroclor-1242 (5) #2	9.82	1.000	A	A	B
59	L7	Aroclor-1248 (1) #2	7.13	1.000	A	A	B
60	L7	Aroclor-1248 (2) #2	8.18	1.000	A	A	B
61	L7	Aroclor-1248 (3) #2	8.73	1.000	A	A	B
62	L7	Aroclor-1248 (4) #2	9.53	1.000	A	A	B
63	L8	Aroclor-1254 (1) #2	10.48	1.000	A	A	B
64	L8	Aroclor-1254 (2) #2	11.07	1.000	A	A	B
65	L8	Aroclor-1254 (3) #2	11.74	1.000	A	A	B
66	L8	Aroclor-1254 (4) #2	12.02	1.000	A	A	B

67	L9	Aroclor-1260 (1) #2	12.45	1.000	A	A	B
68	L9	Aroclor-1260 (2) #2	12.94	1.000	A	A	B
69	L9	Aroclor-1260 (3) #2	13.33	1.000	A	A	B
70	L9	Aroclor-1260 (4) #2	14.68	1.000	A	A	B
71	L9	Aroclor-1260 (5) #2	15.28	1.000	A	A	B
72	L1	Aroclor-1262 (1) #2	14.11	1.000	A	A	B
73	L1	Aroclor-1262 (2) #2	14.68	1.000	A	A	B
74	L1	Aroclor-1262 (3) #2	15.28	1.000	A	A	B
75	L2	Aroclor-1268 (1) #2	17.98	1.000	A	A	B
76	L2	Aroclor-1268 (2) #2	19.17	1.000	A	A	B
77	L2	Aroclor-1268 (3) #2	20.24	1.000	A	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

80820925.M Tue Oct 02 12:32:28 2018 SS

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (500):	S8J1113-CCV1(1)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23377.D	Date Analyzed:	10/11/2018 13:34
PCBs	Column 1	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016	-----	-----	-----	489212	492245	0.60
Aroclor-1016 (1)	04.86	04.76	04.96	211764	242144	14.30
Aroclor-1016 (2)	05.47	05.37	05.57	432364	350618	18.90
Aroclor-1016 (3)	05.86	05.76	05.96	311160	362270	16.40
Aroclor-1016 (4)	06.42	06.32	06.52	1066628	1057362	0.90
Aroclor-1016 (5)	06.67	06.57	06.77	424144	448831	5.80
Average-Aroclor-1260	-----	-----	-----	963897	982236	1.90
Aroclor-1260 (1)	10.06	09.96	10.16	578436	484968	16.20
Aroclor-1260 (2)	10.70	10.60	10.80	1202407	1318524	9.70
Aroclor-1260 (3)	11.34	11.24	11.44	1000381	1006615	0.60
Aroclor-1260 (4)	12.83	12.73	12.93	1648039	1697299	3.00
Aroclor-1260 (5)	14.89	14.79	14.99	390220	403773	3.50
Tetrachloro-m-xylene	04.26	04.16	04.36	12039880	11968110	0.60
Decachlorobiphenyl	16.00	15.90	16.10	10947110	9284400	15.20
					Average %D:	8.76

* - Outside of QC limits

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CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (500):	S8J1113-CCV1(2)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23377.D	Date Analyzed:	10/11/2018 13:34
PCBs	Column 2	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016 [2C]	-----	-----	-----	185625	204123	10.00
Aroclor-1016 (1) [2C]	06.27	06.17	06.37	89712	97027	8.20
Aroclor-1016 (2) [2C]	07.14	07.04	07.24	182386	195712	7.30
Aroclor-1016 (3) [2C]	07.69	07.59	07.79	77154	93895	21.70
Aroclor-1016 (4) [2C]	08.20	08.10	08.30	407320	425268	4.40
Aroclor-1016 (5) [2C]	08.50	08.40	08.60	171552	208715	21.70
Average-Aroclor-1260 [2C]	-----	-----	-----	297563	314212	5.60
Aroclor-1260 (1) [2C]	12.45	12.35	12.55	211007	227921	8.00
Aroclor-1260 (2) [2C]	12.95	12.85	13.05	267464	295603	10.50
Aroclor-1260 (3) [2C]	13.33	13.23	13.43	239078	257236	7.60
Aroclor-1260 (4) [2C]	14.68	14.58	14.78	218661	226848	3.70
Aroclor-1260 (5) [2C]	15.28	15.18	15.38	551606	563451	2.10
Tetrachloro-m-xylene [2C]	05.25	05.15	05.35	4999281	5174800	3.50
Decachlorobiphenyl [2C]	20.24	20.14	20.34	5281753	4225960	20.00
					Average %D:	9.89

* - Outside of QC limits

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Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23377.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23377.D\ECD2B.CH
Acq On : 11 Oct 2018 13:34 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 14:28 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.26	5.25	598.4E6	258.7E6	49.702	51.755
Spiked Amount 50.000	Range 40 - 149		Recovery =		99.40%	103.51%
2) S Decachlorobiphen	16.00	20.24	464.2E6	211.3E6	42.406	40.005m
Spiked Amount 50.000	Range 52 - 136		Recovery =		84.81%	80.01%
Target Compounds						
3) L3 Aroclor-1016 (1)	4.86	6.27	121.1E6	48513559	571.731m	540.769
4) L3 Aroclor-1016 (2)	5.47	7.14	175.3E6	97855933	405.466m	536.531 #
5) L3 Aroclor-1016 (3)	5.86	7.69	181.1E6	46947332	582.127m	613.340
6) L3 Aroclor-1016 (4)	6.42	8.20	528.7E6	212.6E6	495.656m	522.032
7) L3 Aroclor-1016 (5)	6.67	8.50	224.4E6	104.4E6	529.101m	608.315
Sum Aroclor-1016 (1)			1230.6E6	510.3E6	2584.082	2820.986
Average Aroclor-1016 (1)					516.816	564.197
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
28) L9 Aroclor-1260 (1)	10.06	12.45	242.5E6	114.0E6	419.207m	540.080 #
29) L9 Aroclor-1260 (2)	10.70	12.95	659.3E6	147.8E6	548.285m	552.603
30) L9 Aroclor-1260 (3)	11.34	13.33	503.3E6	128.6E6	503.116m	537.976
31) L9 Aroclor-1260 (4)	12.83	14.68	848.6E6	113.4E6	514.945m	518.722
32) L9 Aroclor-1260 (5)	14.89	15.28	201.9E6	281.7E6	517.366	510.737
Sum Aroclor-1260 (1)			2455.6E6	785.5E6	2502.919	2660.119
Average Aroclor-1260 (1)					500.584	532.024
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

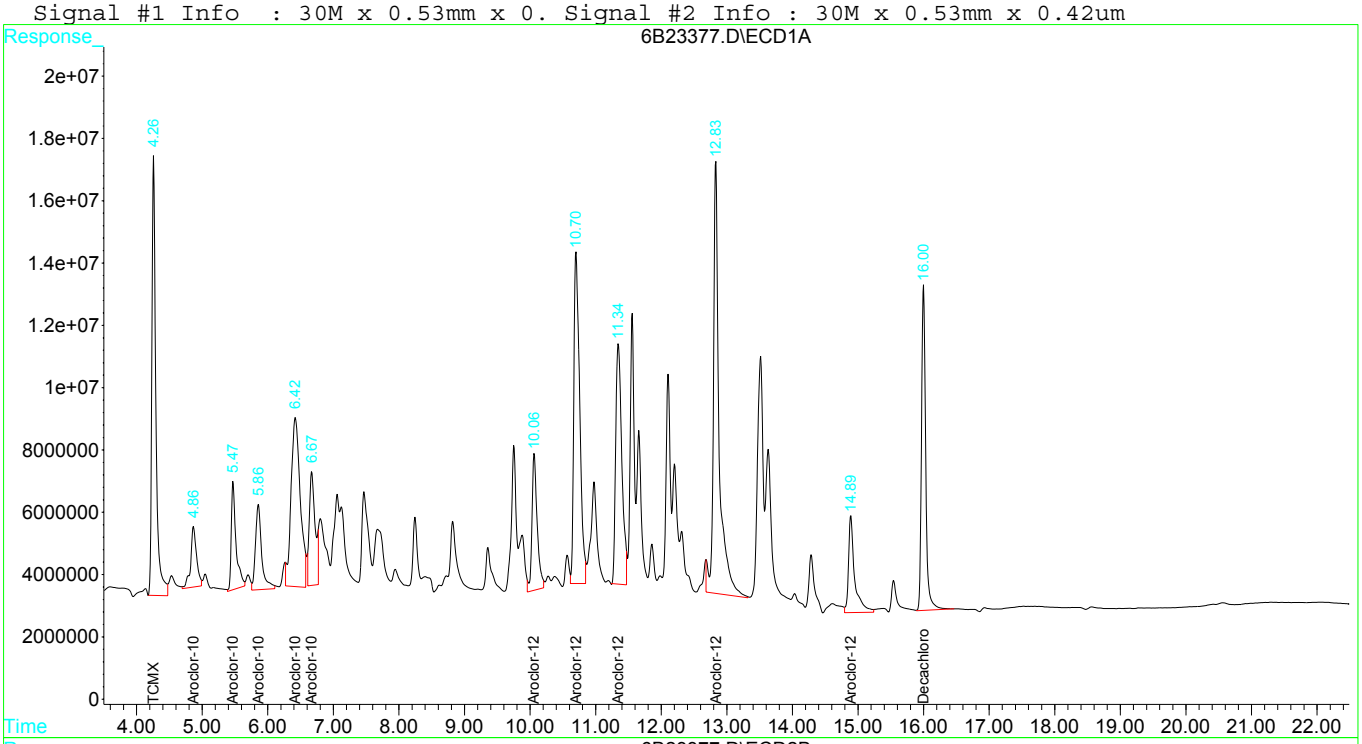
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
6B23377.D 80820925.M Thu Oct 11 15:41:58 2018 SS

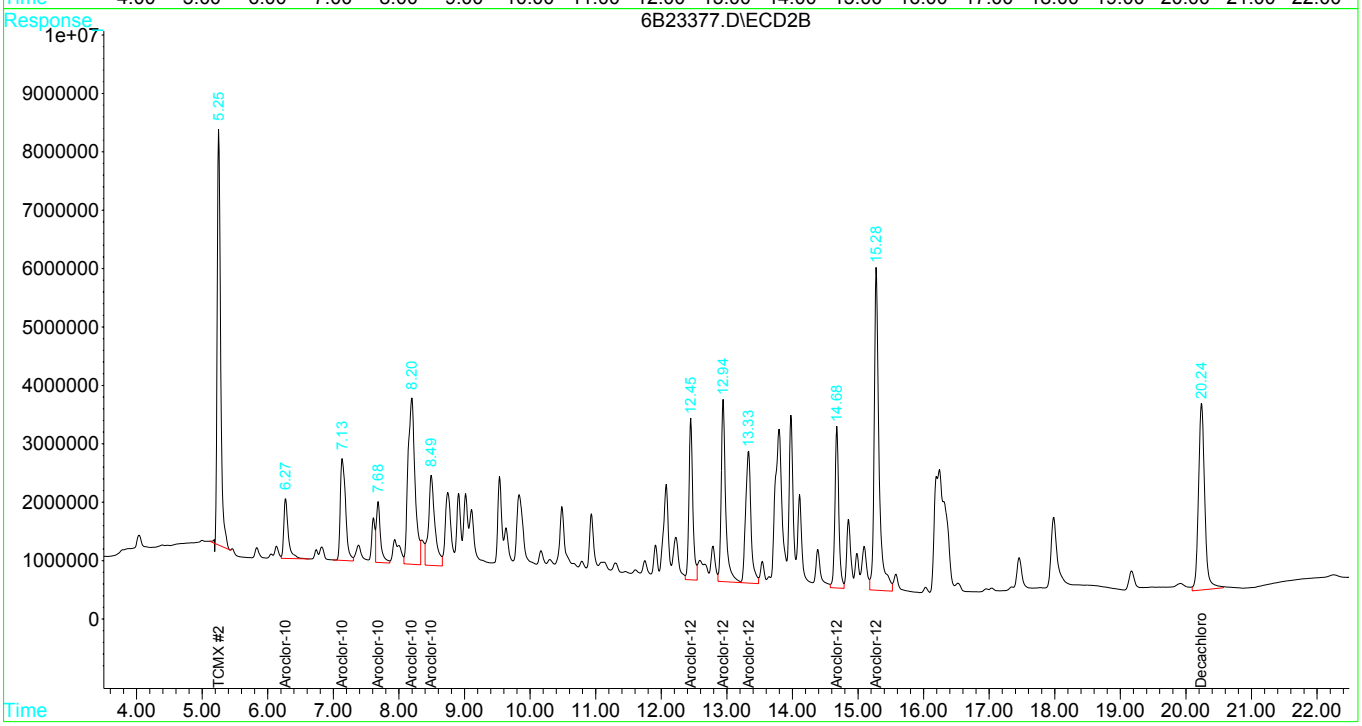
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23377.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23377.D\ECD2B.CH
Acq On : 11 Oct 2018 13:34 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 14:28 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (X500):	S8J1113-CCV2(1)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23397.D	Date Analyzed:	10/11/2018 22:07
PCBs	Column 1	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016	-----	-----	-----	489212	525758	7.50
Aroclor-1016 (1)	04.87	04.77	04.97	211764	264302	24.80
Aroclor-1016 (2)	05.47	05.37	05.57	432364	354249	18.10
Aroclor-1016 (3)	05.86	05.76	05.96	311160	413866	33.00
Aroclor-1016 (4)	06.43	06.33	06.53	1066628	1107490	3.80
Aroclor-1016 (5)	06.67	06.57	06.77	424144	488881	15.30
Average-Aroclor-1260	-----	-----	-----	963897	1019026	5.70
Aroclor-1260 (1)	10.06	09.96	10.16	578436	582350	0.70
Aroclor-1260 (2)	10.70	10.60	10.80	1202407	1381838	14.90
Aroclor-1260 (3)	11.35	11.25	11.45	1000381	1067650	6.70
Aroclor-1260 (4)	12.84	12.74	12.94	1648039	1668999	1.30
Aroclor-1260 (5)	14.90	14.80	15.00	390220	394291	1.00
Tetrachloro-m-xylene	04.26	04.16	04.36	12039880	11906430	1.10
Decachlorobiphenyl	16.00	15.90	16.10	10947110	10036770	8.30
					Average %D:	10.75

* - Outside of QC limits

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CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (X500):	S8J1113-CCV2(2)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23397.D	Date Analyzed:	10/11/2018 22:07
PCBs	Column 2	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016 [2C]	-----	-----	-----	185625	202212	8.90
Aroclor-1016 (1) [2C]	06.28	06.18	06.38	89712	103543	15.40
Aroclor-1016 (2) [2C]	07.14	07.04	07.24	182386	201714	10.60
Aroclor-1016 (3) [2C]	07.68	07.58	07.78	77154	84942	10.10
Aroclor-1016 (4) [2C]	08.20	08.10	08.30	407320	435194	6.80
Aroclor-1016 (5) [2C]	08.50	08.40	08.60	171552	185668	8.20
Average-Aroclor-1260 [2C]	-----	-----	-----	297563	331038	11.20
Aroclor-1260 (1) [2C]	12.46	12.36	12.56	211007	246616	16.90
Aroclor-1260 (2) [2C]	12.95	12.85	13.05	267464	324460	21.30
Aroclor-1260 (3) [2C]	13.34	13.24	13.44	239078	278363	16.40
Aroclor-1260 (4) [2C]	14.68	14.58	14.78	218661	230825	5.60
Aroclor-1260 (5) [2C]	15.29	15.19	15.39	551606	574924	4.20
Tetrachloro-m-xylene [2C]	05.26	05.16	05.36	4999281	5696838	14.00
Decachlorobiphenyl [2C]	20.25	20.15	20.35	5281753	4377342	17.10
					Average %D:	12.22

* - Outside of QC limits

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Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23397.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23397.D\ECD2B.CH
Acq On : 11 Oct 2018 22:07 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 12 7:56 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.26	5.26	595.3E6	284.8E6	49.446	56.977
Spiked Amount 50.000	Range 40 - 149		Recovery =		98.89%	113.95%
2) S Decachlorobiphen	16.00	20.25	501.8E6	218.9E6	45.842	41.438
Spiked Amount 50.000	Range 52 - 136		Recovery =		91.68%	82.88%
Target Compounds						
3) L3 Aroclor-1016 (1)	4.87	6.28	132.2E6	51771629	624.048	577.086
4) L3 Aroclor-1016 (2)	5.47	7.14	177.1E6	100.9E6	409.666	552.984 #
5) L3 Aroclor-1016 (3)	5.86	7.68	206.9E6	42470920	665.037	554.858m
6) L3 Aroclor-1016 (4)	6.43f	8.20	553.7E6	217.6E6	519.155	534.216m
7) L3 Aroclor-1016 (5)	6.67	8.50	244.4E6	92833897	576.315	541.141m
Sum Aroclor-1016 (1)			1314.4E6	505.5E6	2794.220	2760.286
Average Aroclor-1016 (1)					558.844	552.057
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
28) L9 Aroclor-1260 (1)	10.06	12.46	291.2E6	123.3E6	503.384m	584.379
29) L9 Aroclor-1260 (2)	10.70	12.95	690.9E6	162.2E6	574.614m	606.549
30) L9 Aroclor-1260 (3)	11.35	13.34	533.8E6	139.2E6	533.622m	582.158
31) L9 Aroclor-1260 (4)	12.84	14.68	834.5E6	115.4E6	506.359m	527.817
32) L9 Aroclor-1260 (5)	14.90	15.29	197.1E6	287.5E6	505.217	521.137
Sum Aroclor-1260 (1)			2547.6E6	827.6E6	2623.195	2822.040
Average Aroclor-1260 (1)					524.639	564.408
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

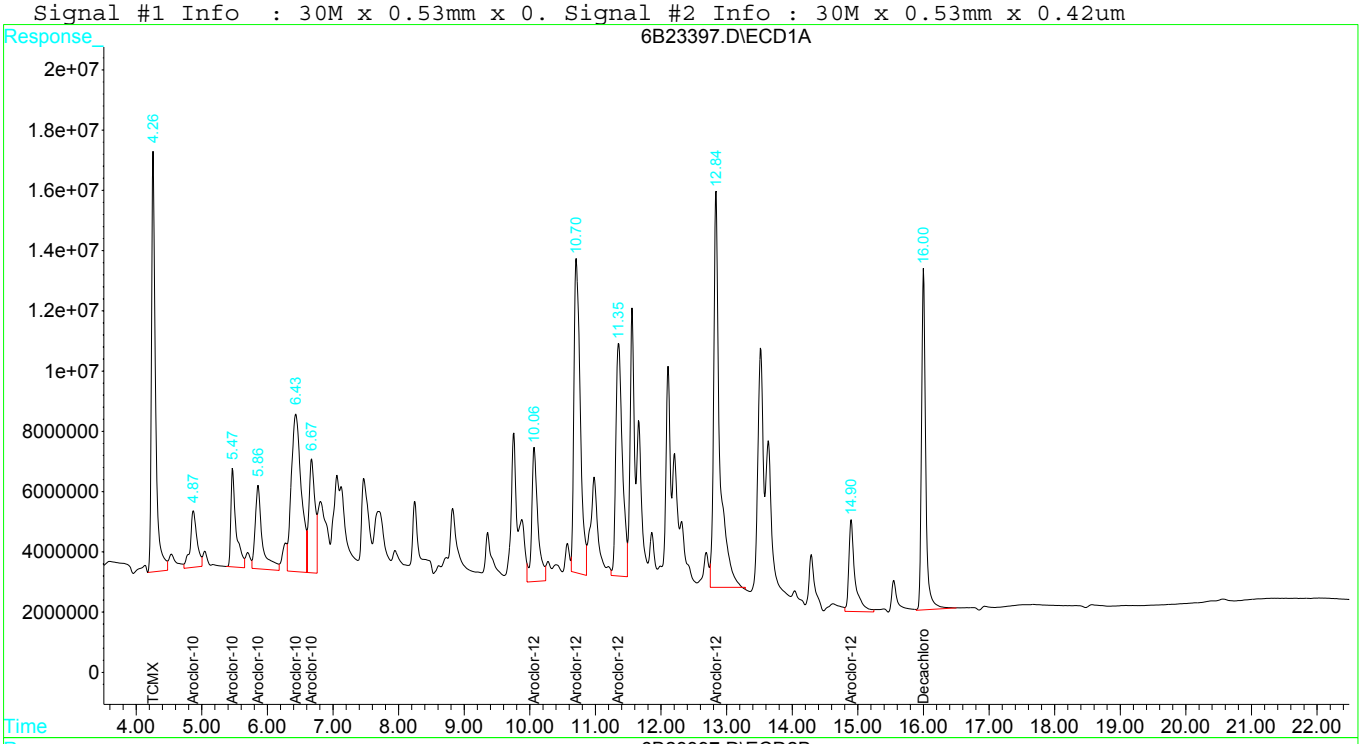
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
6B23397.D 80820925.M Fri Oct 12 07:57:53 2018 SS

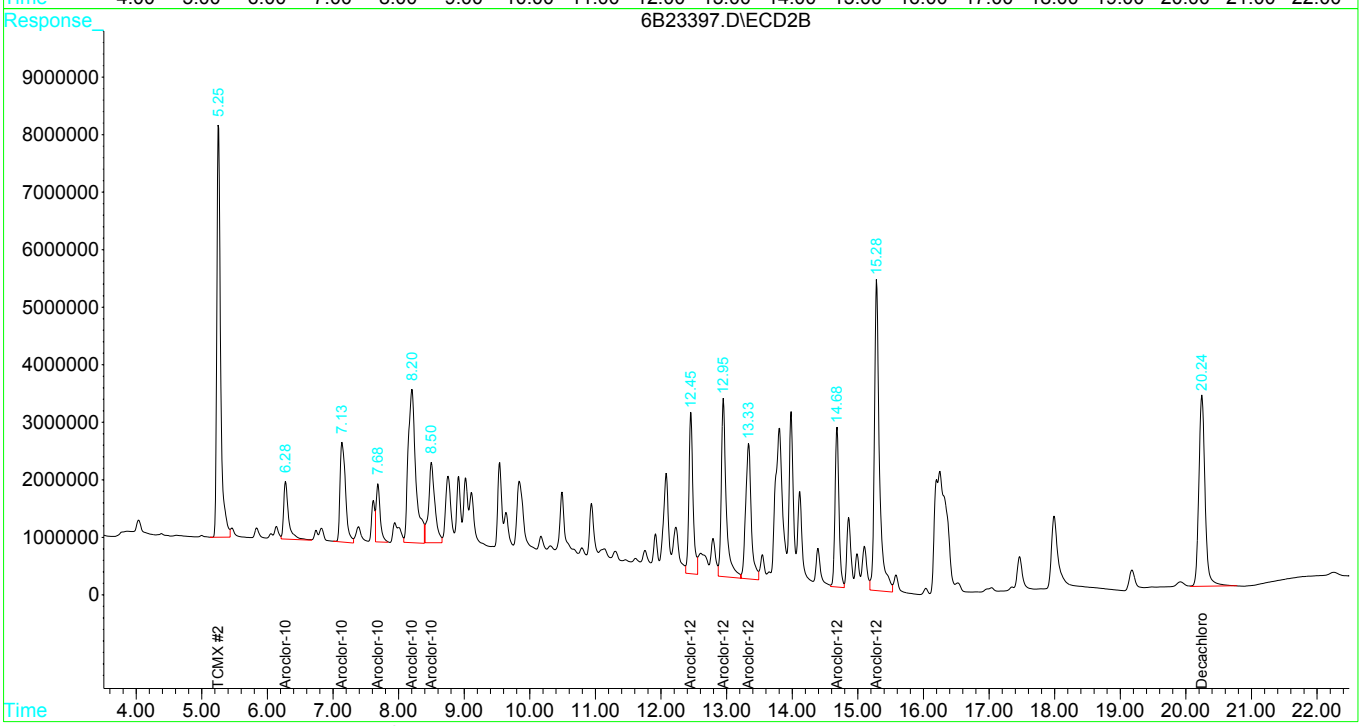
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181011\6B23397.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181011\6B23397.D\ECD2B.CH
Acq On : 11 Oct 2018 22:07 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 12 7:56 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (X500):	S8J1201-CCV2(1)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23428.D	Date Analyzed:	10/12/2018 12:32
PCBs	Column 1	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016	-----	-----	-----	489212	489879	0.10
Aroclor-1016 (1)	04.86	04.76	04.96	211764	236319	11.60
Aroclor-1016 (2)	05.46	05.36	05.56	432364	379154	12.30
Aroclor-1016 (3)	05.85	05.75	05.95	311160	391151	25.70
Aroclor-1016 (4)	06.42	06.32	06.52	1066628	1013619	5.00
Aroclor-1016 (5)	06.67	06.57	06.77	424144	429149	1.20
Average-Aroclor-1260	-----	-----	-----	963897	1046925	8.60
Aroclor-1260 (1)	10.06	09.96	10.16	578436	521228	9.90
Aroclor-1260 (2)	10.70	10.60	10.80	1202407	1365615	13.60
Aroclor-1260 (3)	11.34	11.24	11.44	1000381	1085042	8.50
Aroclor-1260 (4)	12.83	12.73	12.93	1648039	1844663	11.90
Aroclor-1260 (5)	14.89	14.79	14.99	390220	418078	7.10
Tetrachloro-m-xylene	04.25	04.15	04.35	12039880	11211800	6.90
Decachlorobiphenyl	15.99	15.89	16.09	10947110	10848370	0.90
					Average %D:	9.55

* - Outside of QC limits

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CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (X500):	S8J1201-CCV2(2)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23428.D	Date Analyzed:	10/12/2018 12:32
PCBs	Column 2	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016 [2C]	-----	-----	-----	185625	203909	9.80
Aroclor-1016 (1) [2C]	06.27	06.17	06.37	89712	102069	13.80
Aroclor-1016 (2) [2C]	07.14	07.04	07.24	182386	205763	12.80
Aroclor-1016 (3) [2C]	07.68	07.58	07.78	77154	103176	33.70
Aroclor-1016 (4) [2C]	08.20	08.10	08.30	407320	452984	11.20
Aroclor-1016 (5) [2C]	08.49	08.39	08.59	171552	155551	9.30
Average-Aroclor-1260 [2C]	-----	-----	-----	297563	340614	14.50
Aroclor-1260 (1) [2C]	12.45	12.35	12.55	211007	245710	16.40
Aroclor-1260 (2) [2C]	12.94	12.84	13.04	267464	327465	22.40
Aroclor-1260 (3) [2C]	13.33	13.23	13.43	239078	283898	18.70
Aroclor-1260 (4) [2C]	14.68	14.58	14.78	218661	239500	9.50
Aroclor-1260 (5) [2C]	15.28	15.18	15.38	551606	606497	10.00
Tetrachloro-m-xylene [2C]	05.25	05.15	05.35	4999281	5951186	19.00
Decachlorobiphenyl [2C]	20.24	20.14	20.34	5281753	4483482	15.10
					Average %D:	15.99

* - Outside of QC limits

F-VII

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181012\6B23428.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181012\6B23428.D\ECD2B.CH
Acq On : 12 Oct 2018 12:32 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 12 13:26 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.25	5.25	560.6E6	297.6E6	46.561m	59.520 #
Spiked Amount 50.000	Range 40 - 149		Recovery =		93.12%	119.04%
2) S Decachlorobiphen	15.99	20.24	542.4E6	224.2E6	49.549	42.443
Spiked Amount 50.000	Range 52 - 136		Recovery =		99.10%	84.89%
Target Compounds						
3) L3 Aroclor-1016 (1)	4.86	6.27	118.2E6	51034430	557.978m	568.868
4) L3 Aroclor-1016 (2)	5.46	7.14	189.6E6	102.9E6	438.467m	564.086 #
5) L3 Aroclor-1016 (3)	5.85	7.68	195.6E6	51588084	628.537m	673.969
6) L3 Aroclor-1016 (4)	6.42	8.20	506.8E6	226.5E6	475.151m	556.055m
7) L3 Aroclor-1016 (5)	6.67	8.49	214.6E6	77775629	505.900m	453.365m
Sum Aroclor-1016 (1)			1224.7E6	509.8E6	2606.033	2816.343
Average Aroclor-1016 (1)					521.207	563.269
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
28) L9 Aroclor-1260 (1)	10.06	12.45	260.6E6	122.9E6	450.550m	582.231 #
29) L9 Aroclor-1260 (2)	10.70	12.94	682.8E6	163.7E6	567.868m	612.167
30) L9 Aroclor-1260 (3)	11.34	13.33	542.5E6	141.9E6	542.314m	593.735
31) L9 Aroclor-1260 (4)	12.83	14.68	922.3E6	119.7E6	559.654m	547.651
32) L9 Aroclor-1260 (5)	14.89	15.28	209.0E6	303.2E6	535.695	549.756
Sum Aroclor-1260 (1)			2617.3E6	851.5E6	2656.081	2885.540
Average Aroclor-1260 (1)					531.216	577.108
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

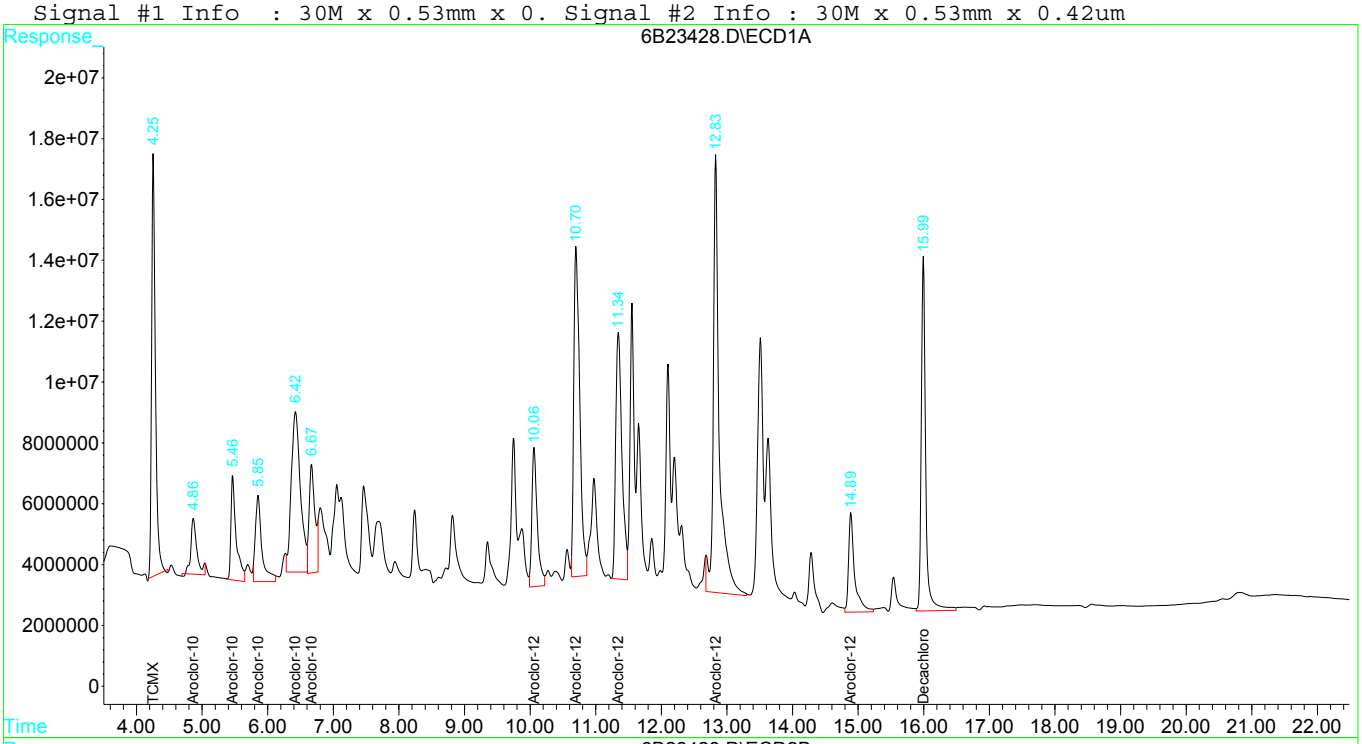
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
6B23428.D 80820925.M Fri Oct 12 13:27:22 2018 SS

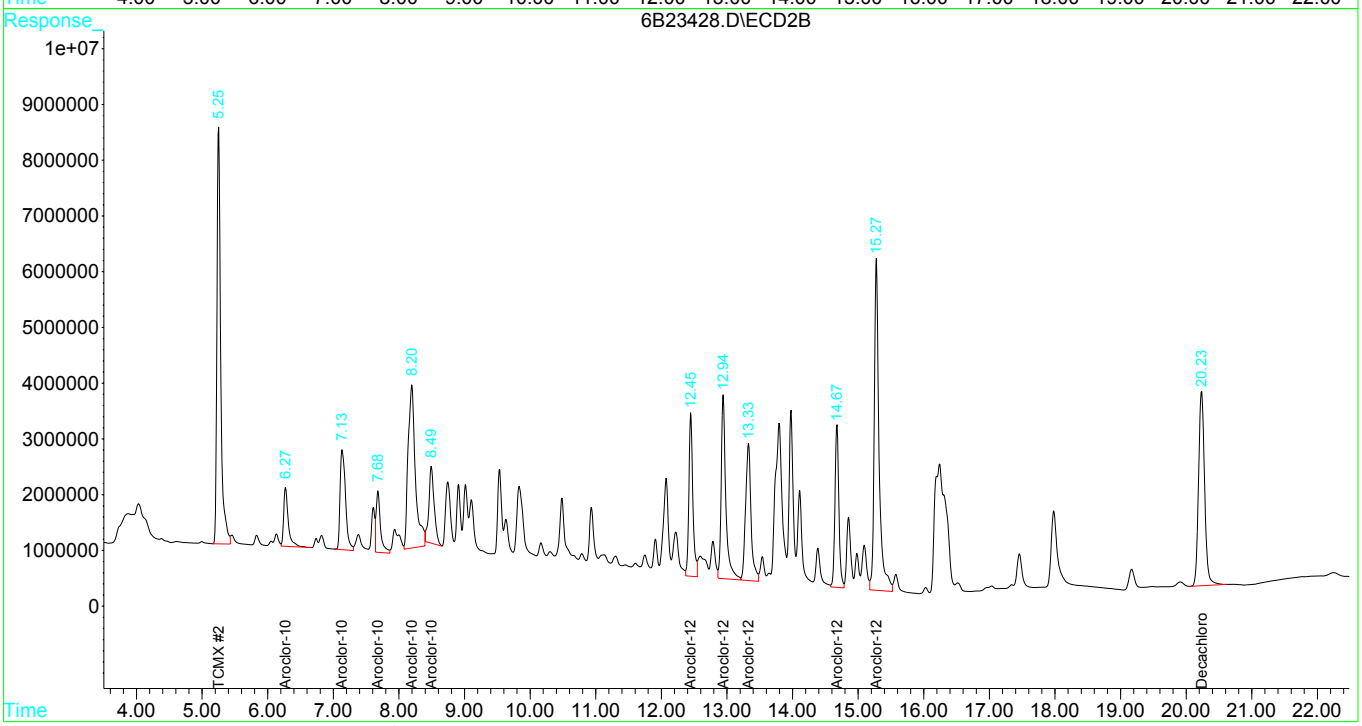
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181012\6B23428.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181012\6B23428.D\ECD2B.CH
Acq On : 12 Oct 2018 12:32 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 12 13:26 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (500):	S8J1201-CCV3(1)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23452.D	Date Analyzed:	10/12/2018 22:38
PCBs	Column 1	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016	-----	-----	-----	489212	500467	2.30
Aroclor-1016 (1)	04.86	04.76	04.96	211764	226495	7.00
Aroclor-1016 (2)	05.47	05.37	05.57	432364	458916	6.10
Aroclor-1016 (3)	05.85	05.75	05.95	311160	403781	29.80
Aroclor-1016 (4)	06.42	06.32	06.52	1066628	984666	7.70
Aroclor-1016 (5)	06.66	06.56	06.76	424144	428477	1.00
Average-Aroclor-1260	-----	-----	-----	963897	967087	0.30
Aroclor-1260 (1)	10.06	09.96	10.16	578436	511702	11.50
Aroclor-1260 (2)	10.70	10.60	10.80	1202407	1375504	14.40
Aroclor-1260 (3)	11.34	11.24	11.44	1000381	995055	0.50
Aroclor-1260 (4)	12.83	12.73	12.93	1648039	1527679	7.30
Aroclor-1260 (5)	14.89	14.79	14.99	390220	425497	9.00
Tetrachloro-m-xylene	04.25	04.15	04.35	12039880	12060070	0.20
Decachlorobiphenyl	16.00	15.90	16.10	10947110	11517900	5.20
					Average %D:	8.31

* - Outside of QC limits

F-VII

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (500):	S8J1201-CCV3(2)	Init. Calib. Date(s):	09/25/2018
File ID:	6B23452.D	Date Analyzed:	10/12/2018 22:38
PCBs	Column 2	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016 [2C]	-----	-----	-----	185625	205202	10.50
Aroclor-1016 (1) [2C]	06.27	06.17	06.37	89712	102332	14.10
Aroclor-1016 (2) [2C]	07.13	07.03	07.23	182386	202774	11.20
Aroclor-1016 (3) [2C]	07.68	07.58	07.78	77154	92581	20.00
Aroclor-1016 (4) [2C]	08.20	08.10	08.30	407320	428289	5.10
Aroclor-1016 (5) [2C]	08.49	08.39	08.59	171552	200033	16.60
Average-Aroclor-1260 [2C]	-----	-----	-----	297563	322063	8.20
Aroclor-1260 (1) [2C]	12.45	12.35	12.55	211007	235643	11.70
Aroclor-1260 (2) [2C]	12.95	12.85	13.05	267464	309658	15.80
Aroclor-1260 (3) [2C]	13.33	13.23	13.43	239078	236292	1.20
Aroclor-1260 (4) [2C]	14.68	14.58	14.78	218661	230188	5.30
Aroclor-1260 (5) [2C]	15.28	15.18	15.38	551606	598535	8.50
Tetrachloro-m-xylene [2C]	05.25	05.15	05.35	4999281	5504700	10.10
Decachlorobiphenyl [2C]	20.24	20.14	20.34	5281753	5213400	1.30
					Average %D:	10.08

* - Outside of QC limits

F-VII

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181012\6B23452.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181012\6B23452.D\ECD2B.CH
Acq On : 12 Oct 2018 22:38 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 13 11:53 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Initial Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	4.25	5.25	603.0E6	275.2E6	50.084	55.055
Spiked Amount 50.000	Range 40 - 149		Recovery =		100.17%	110.11%
2) S Decachlorobiphen	16.00	20.24	575.9E6	260.7E6	52.607	49.353
Spiked Amount 50.000	Range 52 - 136		Recovery =		105.21%	98.71%
Target Compounds						
3) L3 Aroclor-1016 (1)	4.86	6.27	113.2E6	51165995	534.781m	570.335
4) L3 Aroclor-1016 (2)	5.47	7.13	229.5E6	101.4E6	530.706	555.892
5) L3 Aroclor-1016 (3)	5.85	7.68	201.9E6	46290428	648.831m	604.758
6) L3 Aroclor-1016 (4)	6.42	8.20	492.3E6	214.1E6	461.579m	525.741
7) L3 Aroclor-1016 (5)	6.66	8.49	214.2E6	100.0E6	505.108m	583.008
Sum Aroclor-1016 (1)			1251.2E6	513.0E6	2681.005	2839.734
Average Aroclor-1016 (1)					536.201	567.947
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
28) L9 Aroclor-1260 (1)	10.06	12.45	255.9E6	117.8E6	442.316m	558.378 #
29) L9 Aroclor-1260 (2)	10.70	12.95	687.8E6	154.8E6	571.979m	578.878
30) L9 Aroclor-1260 (3)	11.34	13.33	497.5E6	118.1E6	497.338m	494.174
31) L9 Aroclor-1260 (4)	12.83	14.68	763.8E6	115.1E6	463.484m	526.359
32) L9 Aroclor-1260 (5)	14.89	15.28	212.7E6	299.3E6	545.200	542.539
Sum Aroclor-1260 (1)			2417.7E6	805.2E6	2520.318	2700.327
Average Aroclor-1260 (1)					504.064	540.065
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

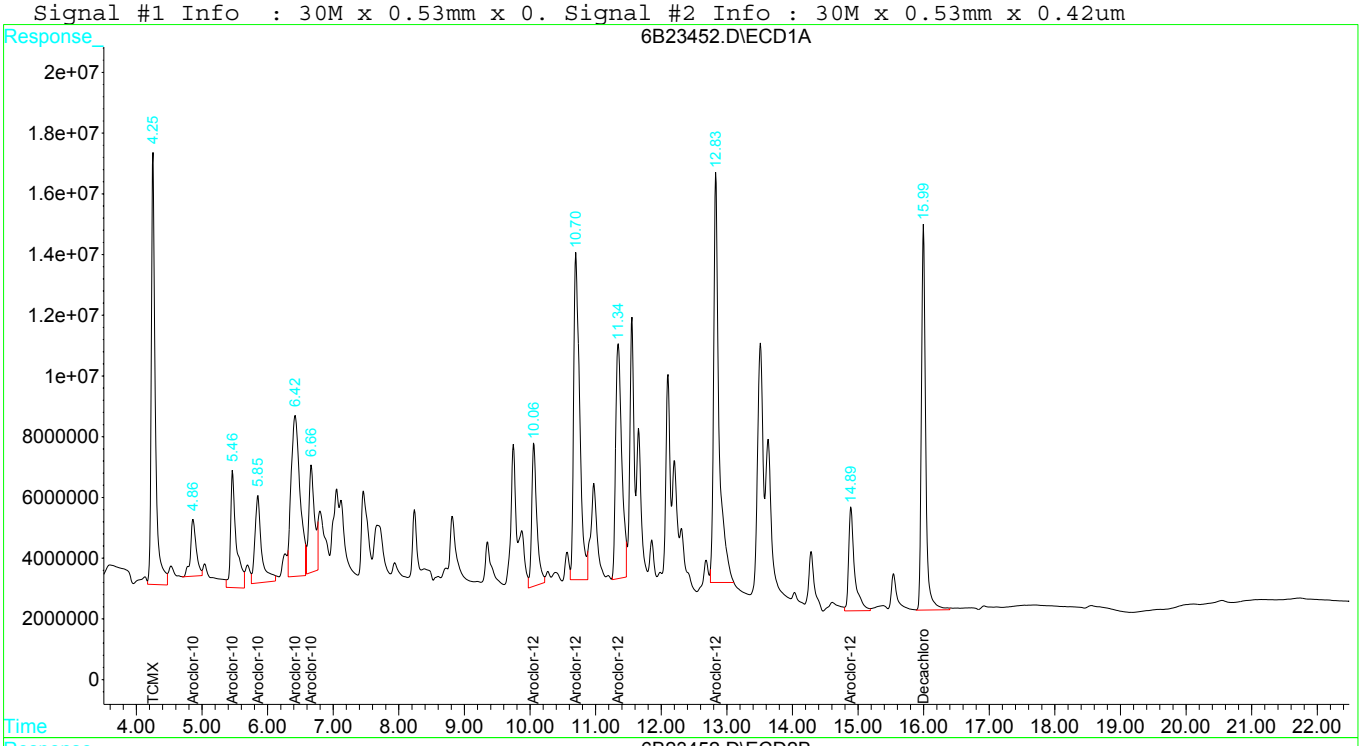
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
6B23452.D 80820925.M Sat Oct 13 11:58:23 2018 SS

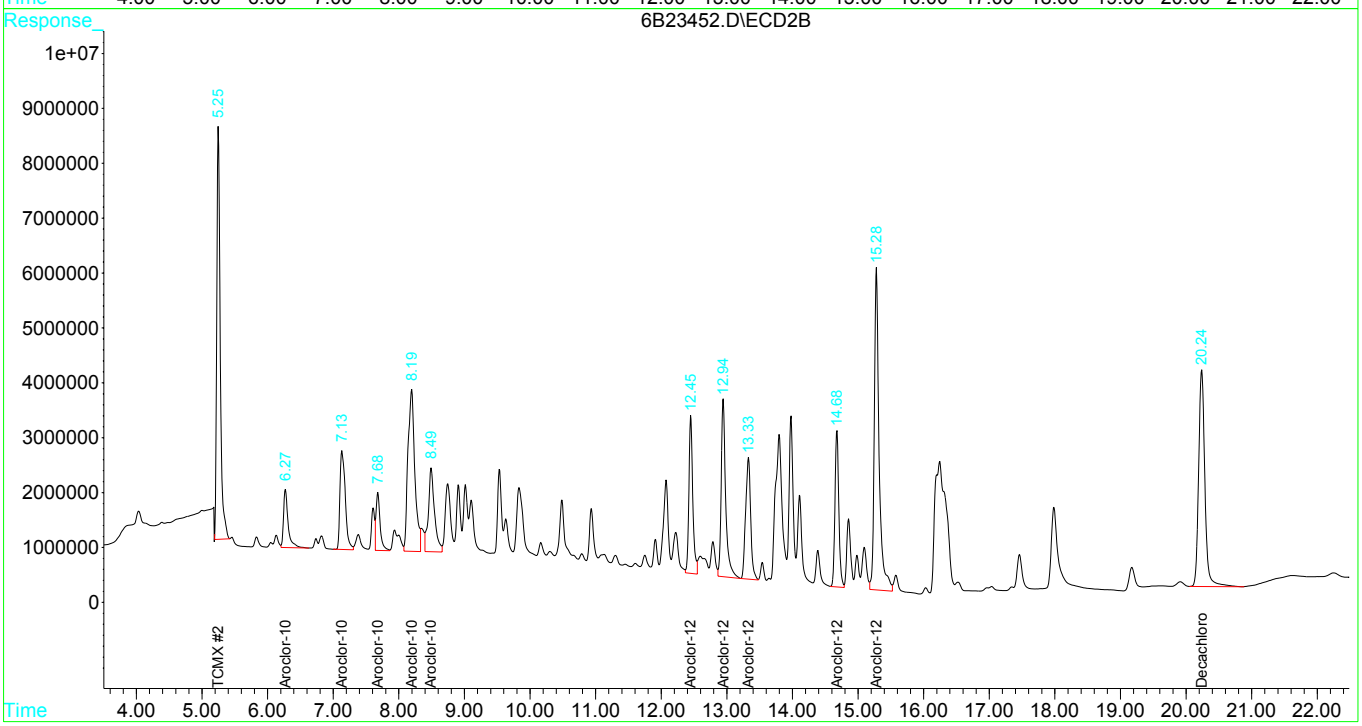
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20181012\6B23452.D\ECD1A.CH Vial: 96
Signal #2 : G:\HPCHEM\GCECD6\DATA\20181012\6B23452.D\ECD2B.CH
Acq On : 12 Oct 2018 22:38 Operator: RL
Sample : SEQ-CCV Inst : GCECD-6
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 13 11:53 2018 Quant Results File: 80820925.RES

Quant Method : G:\HPCHEM\G...\80820925.M (Chemstation Integrator)
Title : PCBs by EPA Method 8082
Last Update : Wed Sep 26 13:16:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPCB.M

Volume Inj. : 1ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





GC

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1103-BLK1**		

		Prep Date:	10/11/2018 08:17	File ID:	E22949.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/2018 21:15
		Matrix:	Soil	Sequence:	S8J1218
		Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.0	20.0	U

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22949.D Vial: 16
Acq On : 11 Oct 2018 9:15 pm Operator: BW
Sample : B8J1103-BLK1 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 16:06 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
Target Compounds					
9)	o-Terphenyl	13.57	580602	26.368	mg/L
11)	Chlorooctadecane	14.45	400643	23.543	mg/L

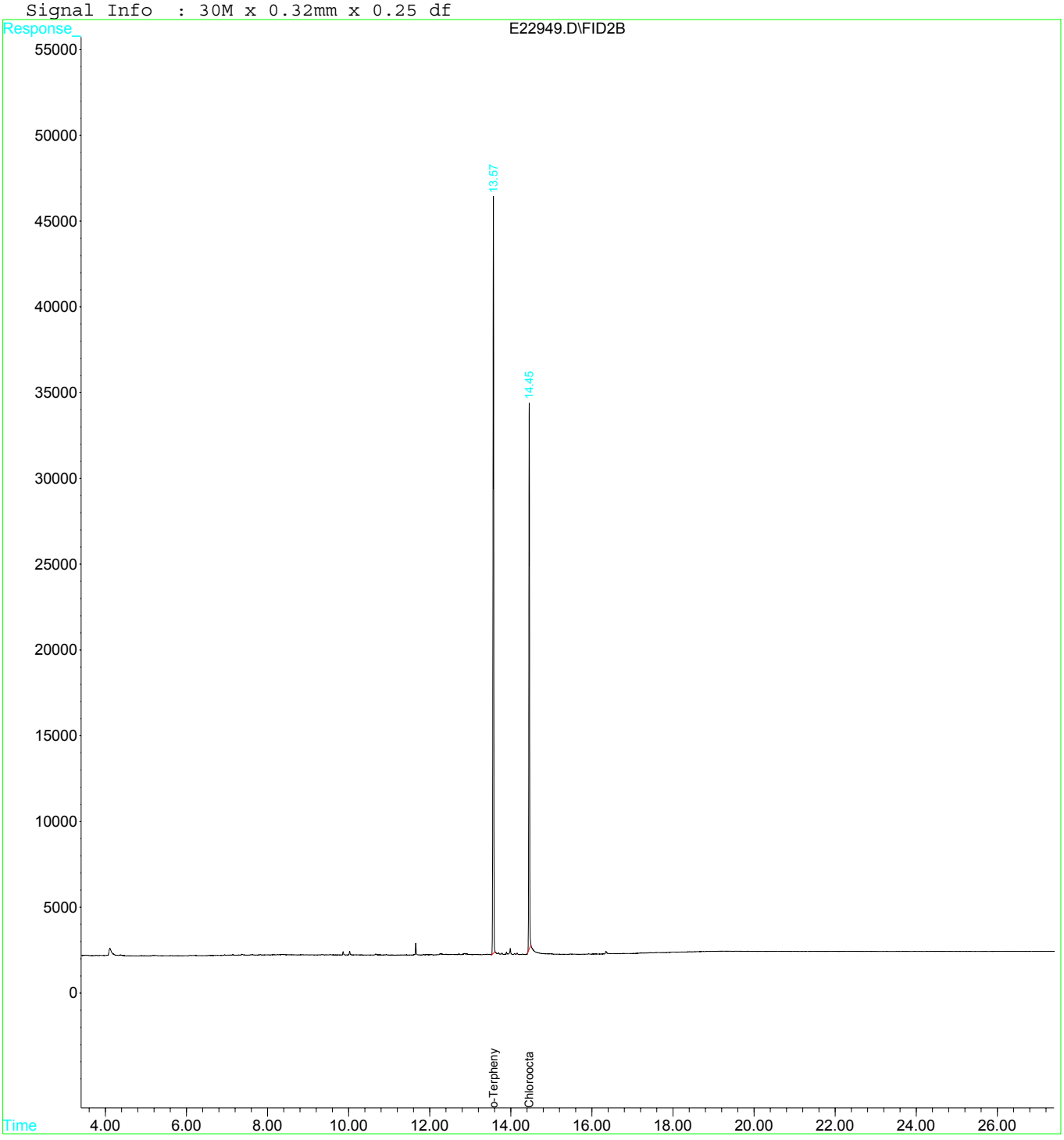
(f)=RT Delta > 1/2 Window (m)=manual int.
E22949.D ALIP1106.M Fri Oct 12 16:06:45 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22949.D Vial: 16
Acq On : 11 Oct 2018 9:15 pm Operator: BW
Sample : B8J1103-BLK1 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 16:06 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22935.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 12:51
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	89.91	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	62.8	11.1	22.2	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22935.D Vial: 2
Acq On : 11 Oct 2018 12:51 pm Operator: BW
Sample : 8100452-01 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 13:42 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
9)	o-Terphenyl	13.57	574237	26.079	mg/L	
11)	Chlorooctadecane	14.46	417116	24.511	mg/L	
25)	Total EPH	13.57	8160091	332.829	mg/L	m

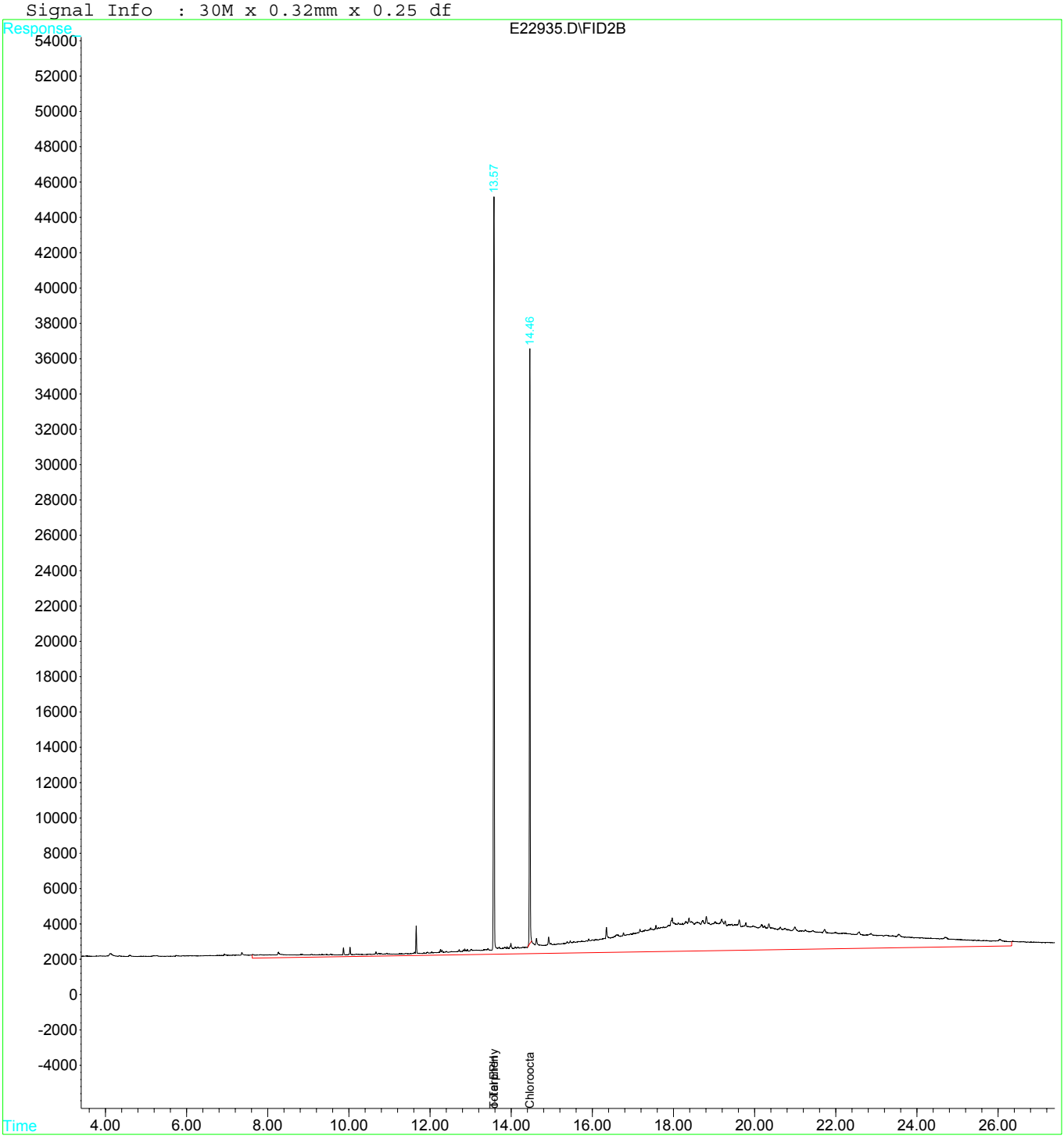
(f)=RT Delta > 1/2 Window (m)=manual int.
E22935.D ALIP1106.M Fri Oct 12 16:06:24 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22935.D Vial: 2
Acq On : 11 Oct 2018 12:51 pm Operator: BW
Sample : 8100452-01 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 13:42 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22936.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 13:27
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	92.54	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	97.5	10.8	21.6	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22936.D Vial: 3
Acq On : 11 Oct 2018 1:27 pm Operator: BW
Sample : 8100452-02 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 14:07 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
9)	o-Terphenyl	13.58	612460	27.814	mg/L
11)	Chlorooctadecane	14.46	456551	26.828	mg/L
25)	Total EPH	13.57	12400867	505.799	mg/L m

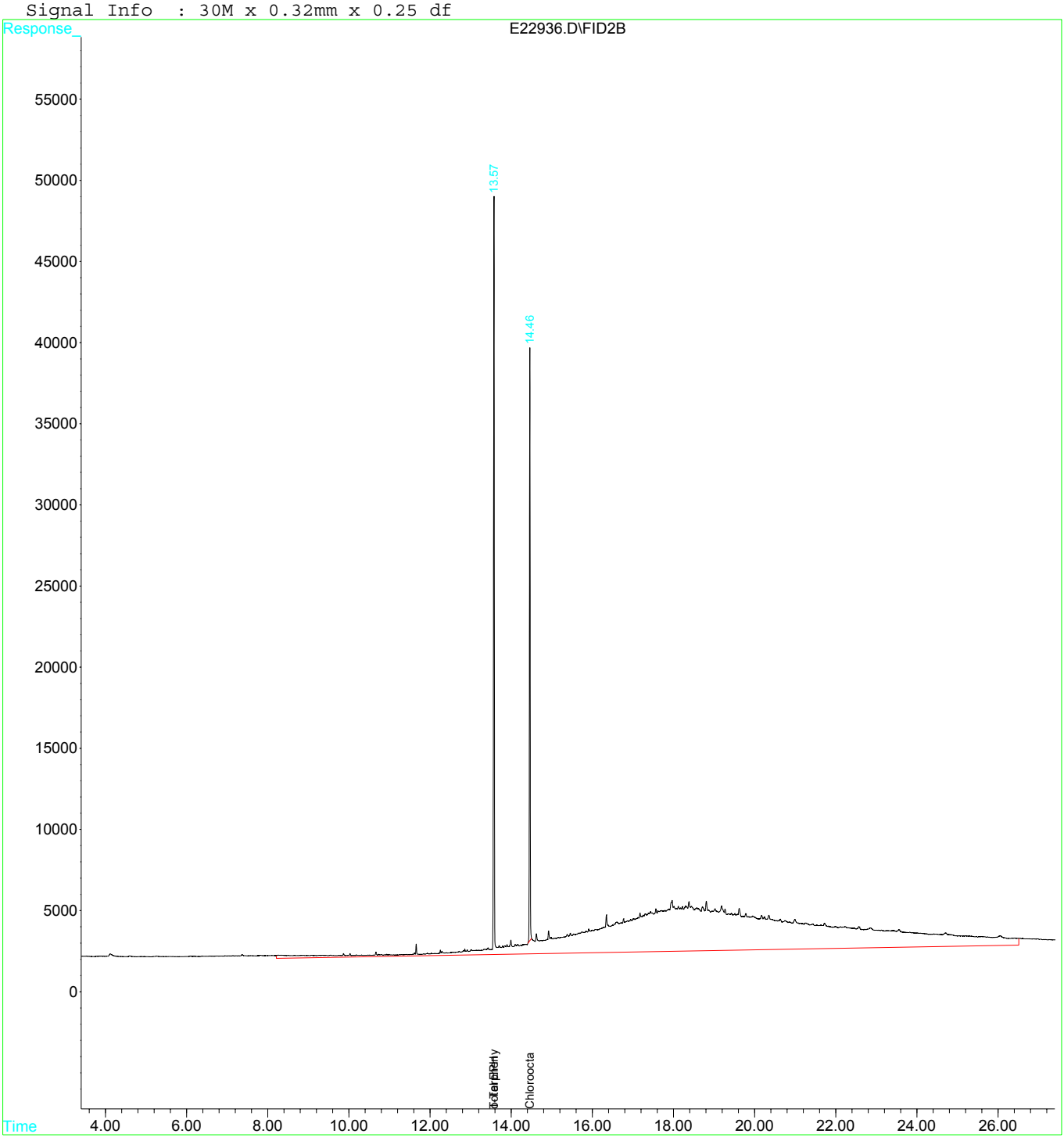
(f)=RT Delta > 1/2 Window (m)=manual int.
E22936.D ALIP1106.M Fri Oct 12 16:06:27 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22936.D Vial: 3
Acq On : 11 Oct 2018 1:27 pm Operator: BW
Sample : 8100452-02 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 14:07 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-2B**
Lab Sample ID: **8100452-03**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22937.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 14:02
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	92.25	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	38.1	10.8	21.7	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22937.D Vial: 4
Acq On : 11 Oct 2018 2:02 pm Operator: BW
Sample : 8100452-03 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 14:32 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
9)	o-Terphenyl	13.57	599348	27.219	mg/L
11)	Chlorooctadecane	14.46	445679	26.189	mg/L
25)	Total EPH	13.57	5622677	229.334	mg/L m

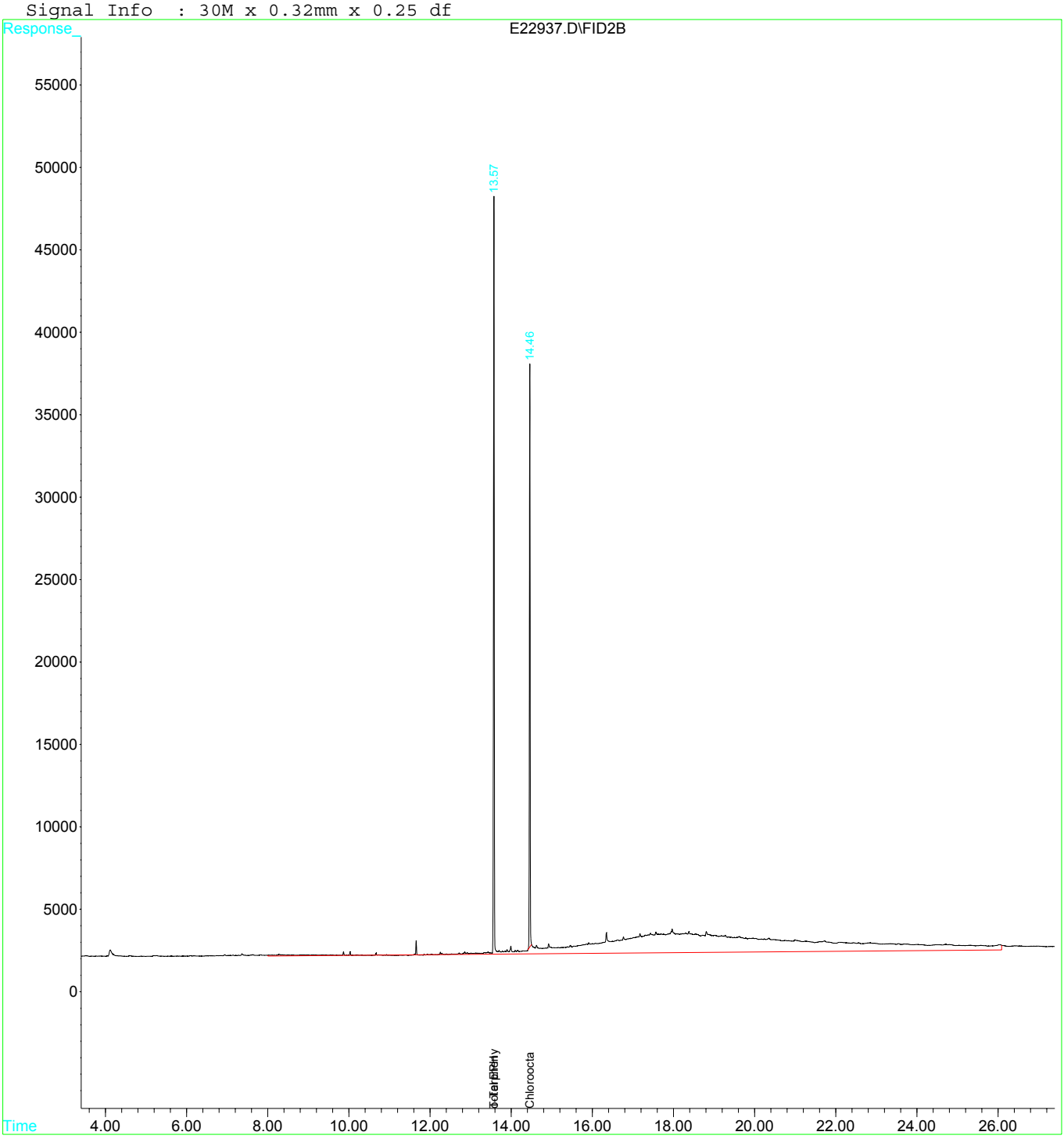
(f)=RT Delta > 1/2 Window (m)=manual int.
E22937.D ALIP1106.M Fri Oct 12 16:06:30 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22937.D Vial: 4
Acq On : 11 Oct 2018 2:02 pm Operator: BW
Sample : 8100452-03 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 14:32 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-3B**
Lab Sample ID: **8100452-04**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22938.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 14:37
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	91.33	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.9	21.9	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22938.D Vial: 5
Acq On : 11 Oct 2018 2:37 pm Operator: BW
Sample : 8100452-04 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 15:28 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
Target Compounds					
9)	o-Terphenyl	13.57	569746	25.875	mg/L
11)	Chlorooctadecane	14.46	414587	24.362	mg/L

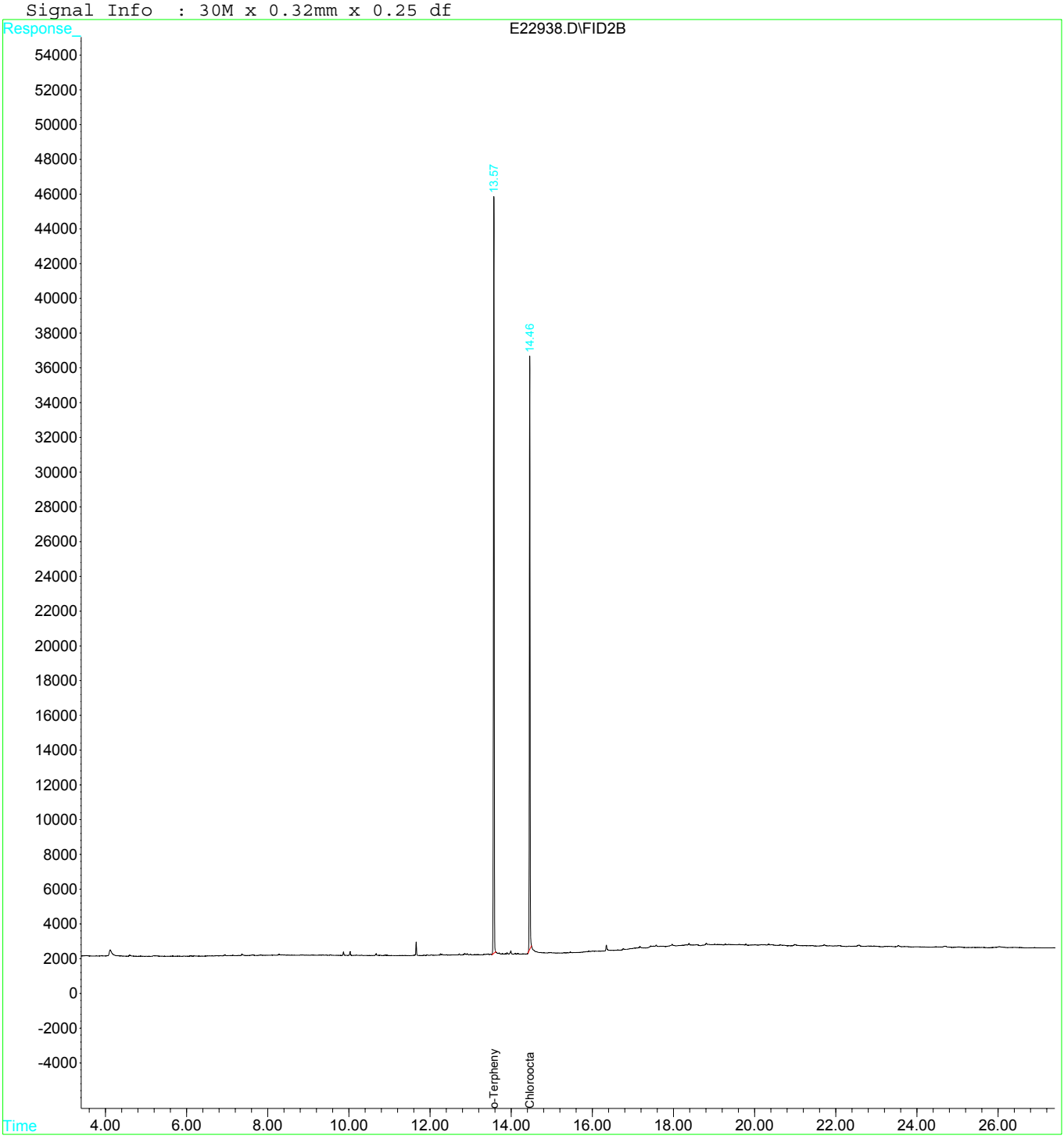
(f)=RT Delta > 1/2 Window (m)=manual int.
E22938.D ALIP1106.M Fri Oct 12 16:06:33 2018 SS

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22938.D Vial: 5
Acq On : 11 Oct 2018 2:37 pm Operator: BW
Sample : 8100452-04 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 15:28 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/11/18 08:17	File ID:	E22939.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 15:25
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	92.00	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.9	21.7	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22939.D Vial: 6
Acq On : 11 Oct 2018 3:25 pm Operator: BW
Sample : 8100452-05 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 16:22 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
Target Compounds					
9)	o-Terphenyl	13.57	571790	25.968	mg/L
11)	Chlorooctadecane	14.46	422450	24.824	mg/L

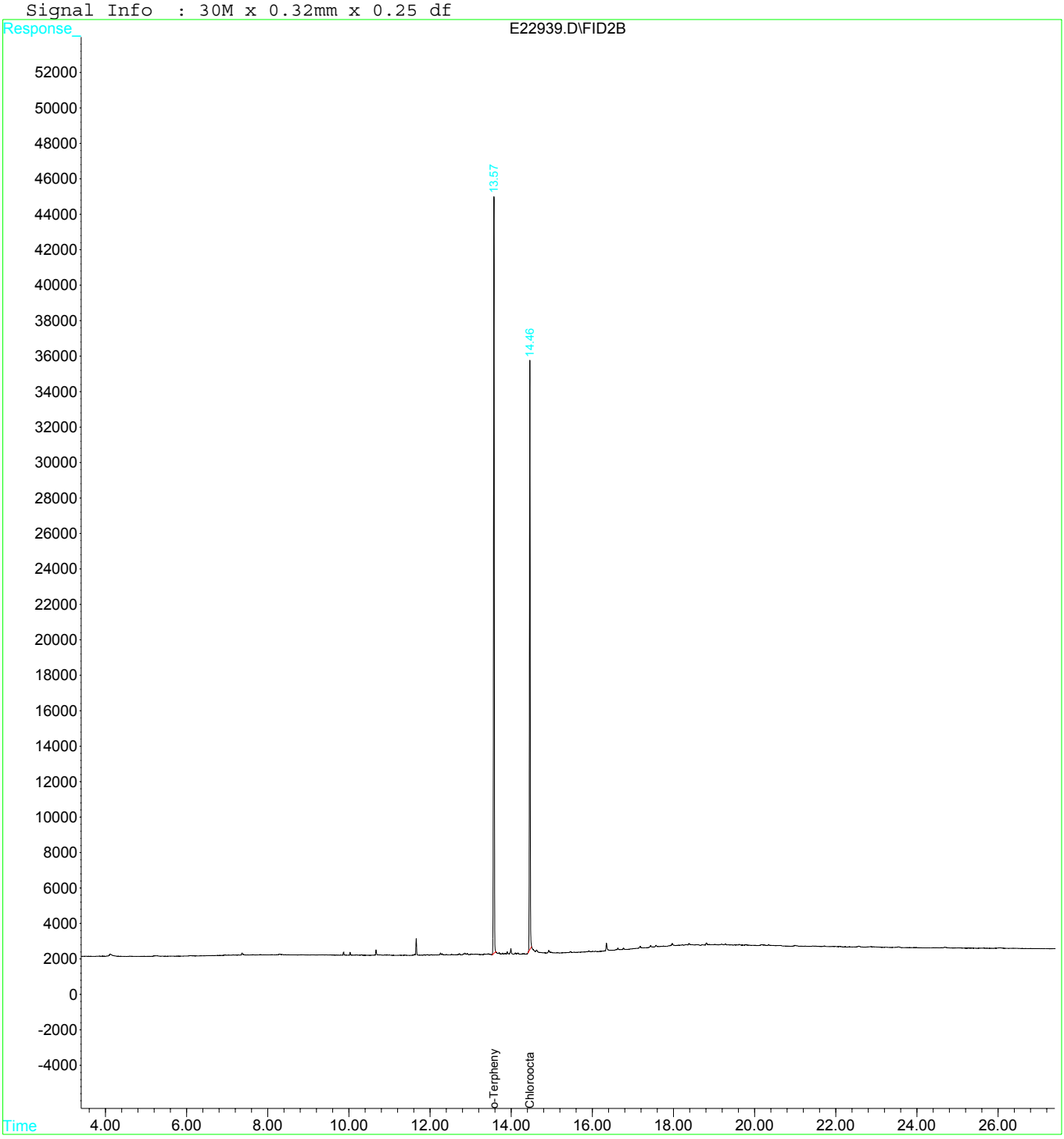
(f)=RT Delta > 1/2 Window (m)=manual int.
E22939.D ALIP1106.M Fri Oct 12 16:06:35 2018 SS

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22939.D Vial: 6
Acq On : 11 Oct 2018 3:25 pm Operator: BW
Sample : 8100452-05 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 16:22 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/11/18 08:17	File ID:	E22940.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 16:00
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	87.70	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	11.4	22.8	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22940.D Vial: 7
Acq On : 11 Oct 2018 4:00 pm Operator: BW
Sample : 8100452-06 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 16:56 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
Target Compounds					
9)	o-Terphenyl	13.57	520767	23.650	mg/L
11)	Chlorooctadecane	14.46	379562	22.304	mg/L

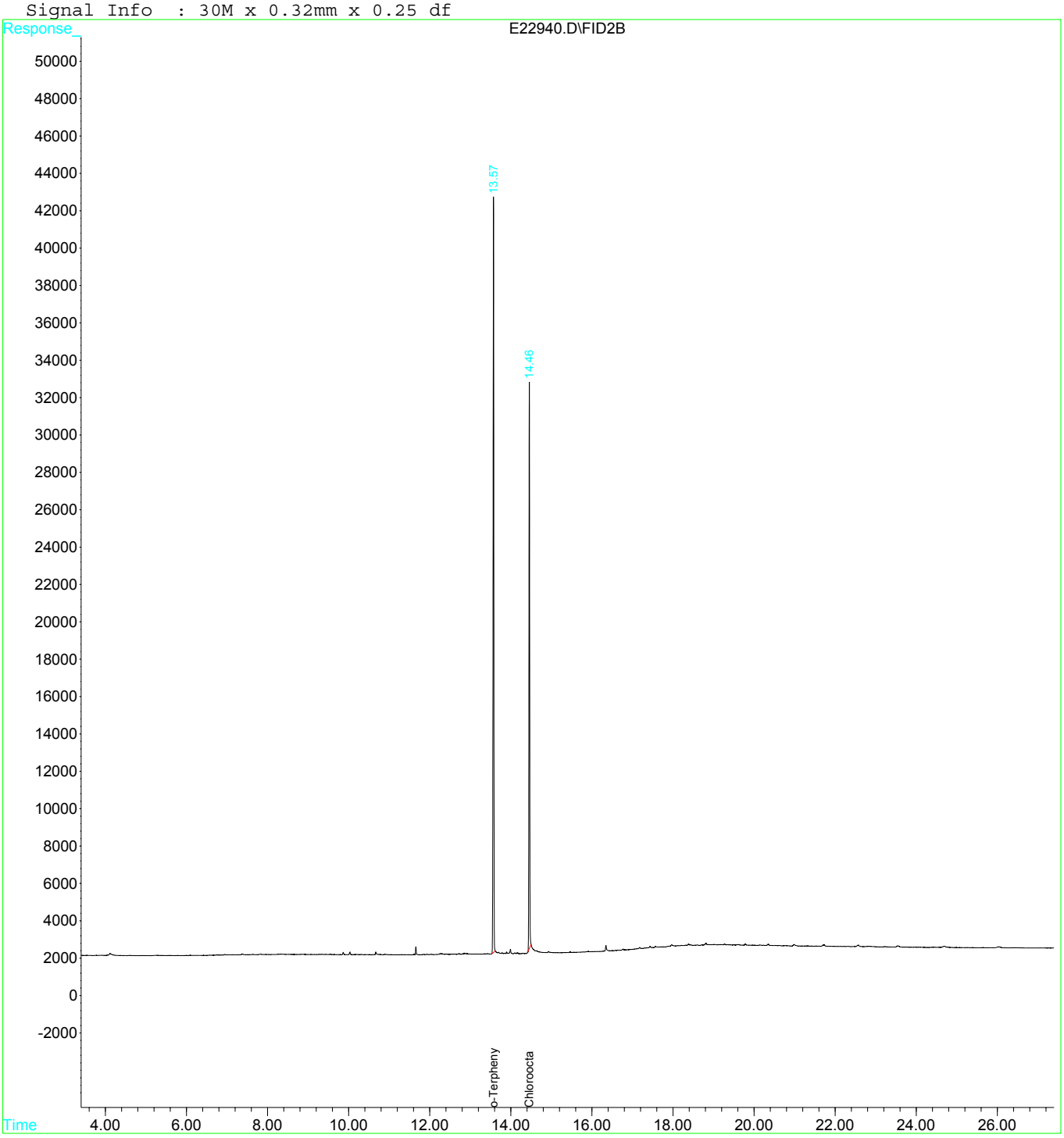
(f)=RT Delta > 1/2 Window (m)=manual int.
E22940.D ALIP1106.M Fri Oct 12 16:06:37 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22940.D Vial: 7
Acq On : 11 Oct 2018 4:00 pm Operator: BW
Sample : 8100452-06 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 16:56 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



E22940.D ALIP1106.M Fri Oct 12 16:06:38 2018 SS Page 2

ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/11/18 08:17	File ID:	E22941.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 16:35
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	91.36	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	65.8	10.9	21.9	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22941.D Vial: 8
Acq On : 11 Oct 2018 4:35 pm Operator: BW
Sample : 8100452-07 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 17:08 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
9)	o-Terphenyl	13.57	547163	24.849	mg/L
11)	Chlorooctadecane	14.46	400305	23.523	mg/L
25)	Total EPH	13.57	8555007	348.936	mg/L m

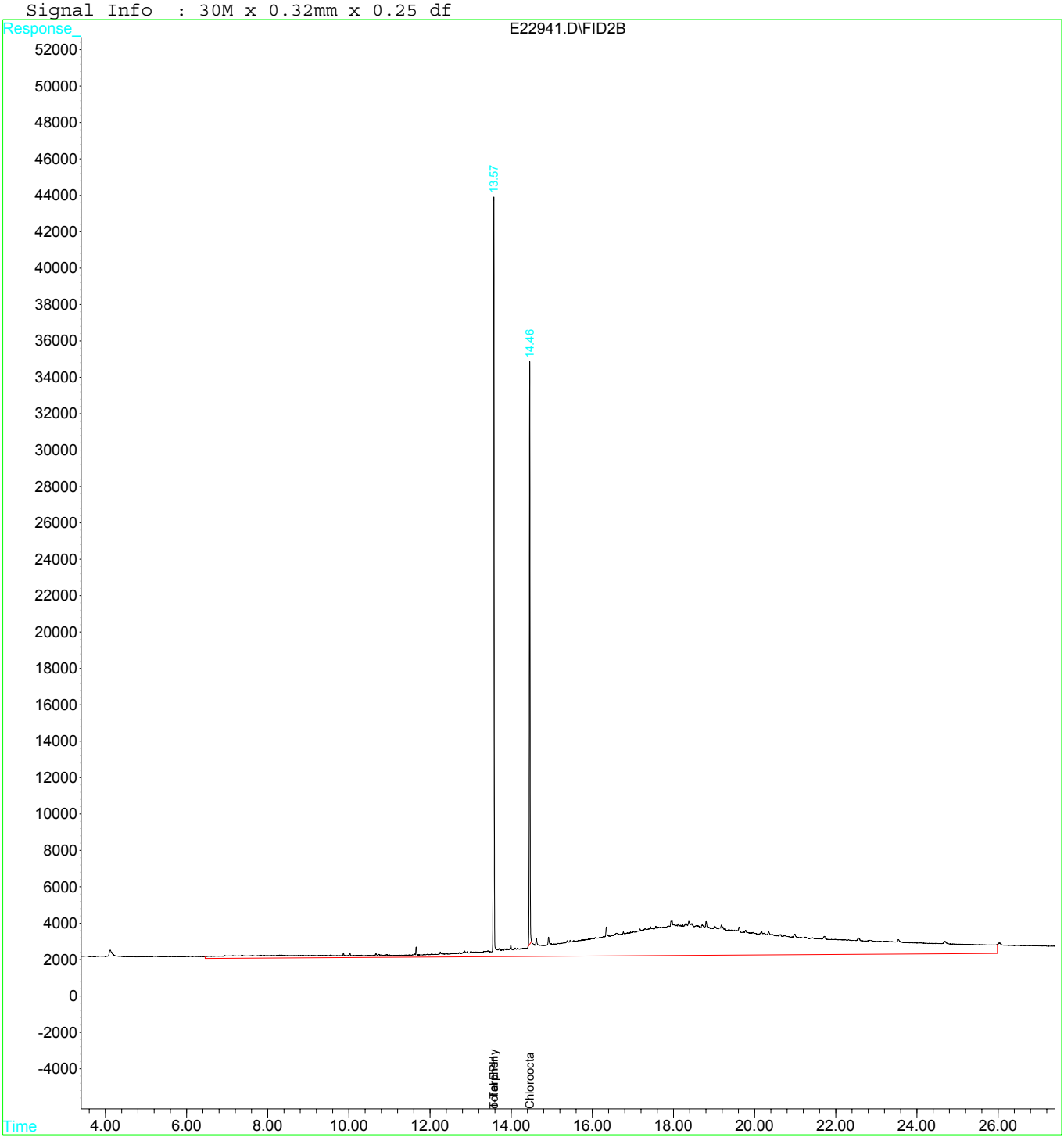
(f)=RT Delta > 1/2 Window (m)=manual int.
E22941.D ALIP1106.M Fri Oct 12 16:06:40 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22941.D Vial: 8
Acq On : 11 Oct 2018 4:35 pm Operator: BW
Sample : 8100452-07 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 17:08 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



E22941.D ALIP1106.M Fri Oct 12 16:06:40 2018 SS Page 2

ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 08:17	File ID:	E22942.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/11/18 17:10
Dilution:	1	Matrix:	Soil	Sequence:	S8J1218
Percent Solids:	89.59	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	11.2	22.3	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22942.D Vial: 9
Acq On : 11 Oct 2018 5:10 pm Operator: BW
Sample : 8100452-08 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 9:27 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc Units
Target Compounds				
9)	o-Terphenyl	13.57	553827	25.152 mg/L
11)	Chlorooctadecane	14.46	410480	24.121 mg/L

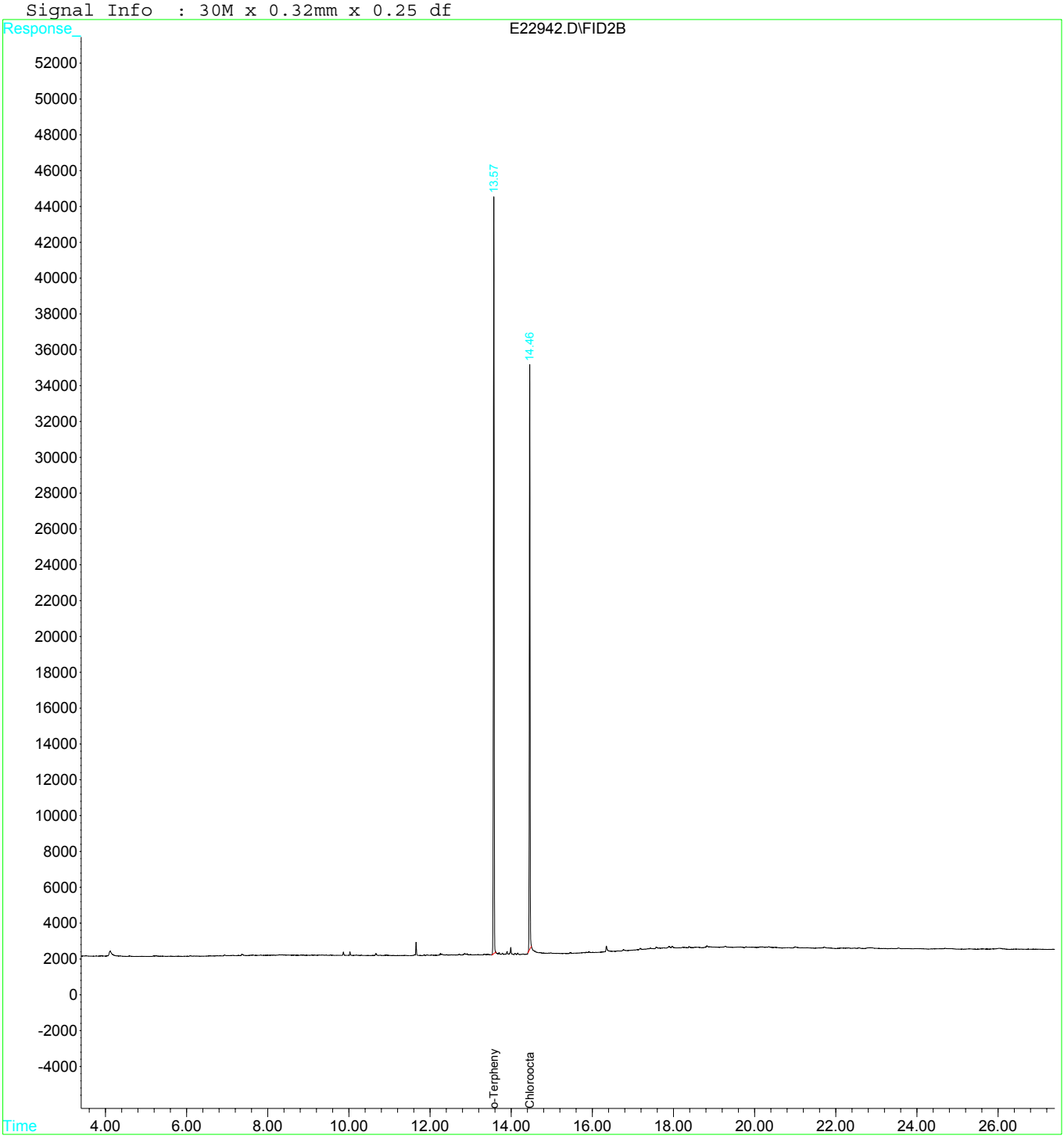
(f)=RT Delta > 1/2 Window (m)=manual int.
E22942.D ALIP1106.M Fri Oct 12 16:06:43 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22942.D Vial: 9
Acq On : 11 Oct 2018 5:10 pm Operator: BW
Sample : 8100452-08 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 9:27 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-2B**
Lab Sample ID: **8100452-09**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:30	Prep Date:	10/11/18 08:17	File ID:	E22960.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/12/18 11:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1601
Percent Solids:	91.55	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.9	21.8	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22960.D Vial: 2
Acq On : 12 Oct 2018 11:28 am Operator: BW
Sample : 8100452-09 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:26 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
9)	o-Terphenyl	13.57	492675	22.375	mg/L
11)	Chlorooctadecane	14.45	360379	21.177	mg/L m

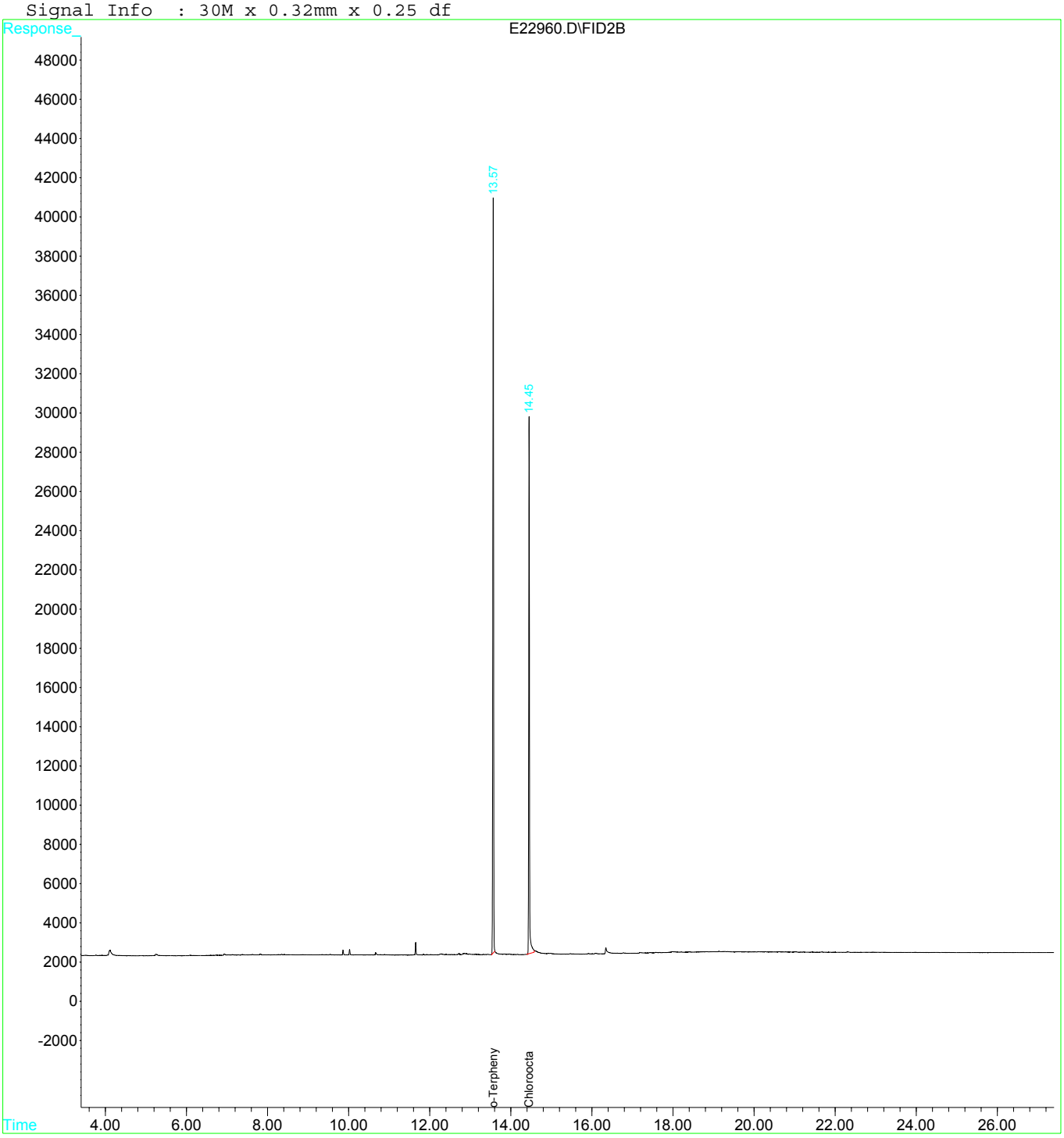
(f)=RT Delta > 1/2 Window (m)=manual int.
E22960.D ALIP1106.M Tue Oct 16 10:11:51 2018 SS

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22960.D Vial: 2
Acq On : 12 Oct 2018 11:28 am Operator: BW
Sample : 8100452-09 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:26 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-3B**
Lab Sample ID: **8100452-10**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:40	Prep Date:	10/11/18 08:17	File ID:	E22961.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/12/18 12:03
Dilution:	1	Matrix:	Soil	Sequence:	S8J1601
Percent Solids:	91.53	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.9	21.9	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22961.D Vial: 3
Acq On : 12 Oct 2018 12:03 pm Operator: BW
Sample : 8100452-10 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:27 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
9)	o-Terphenyl	13.57	538206	24.442	mg/L	
11)	Chlorooctadecane	14.45	372031	21.861	mg/L	m

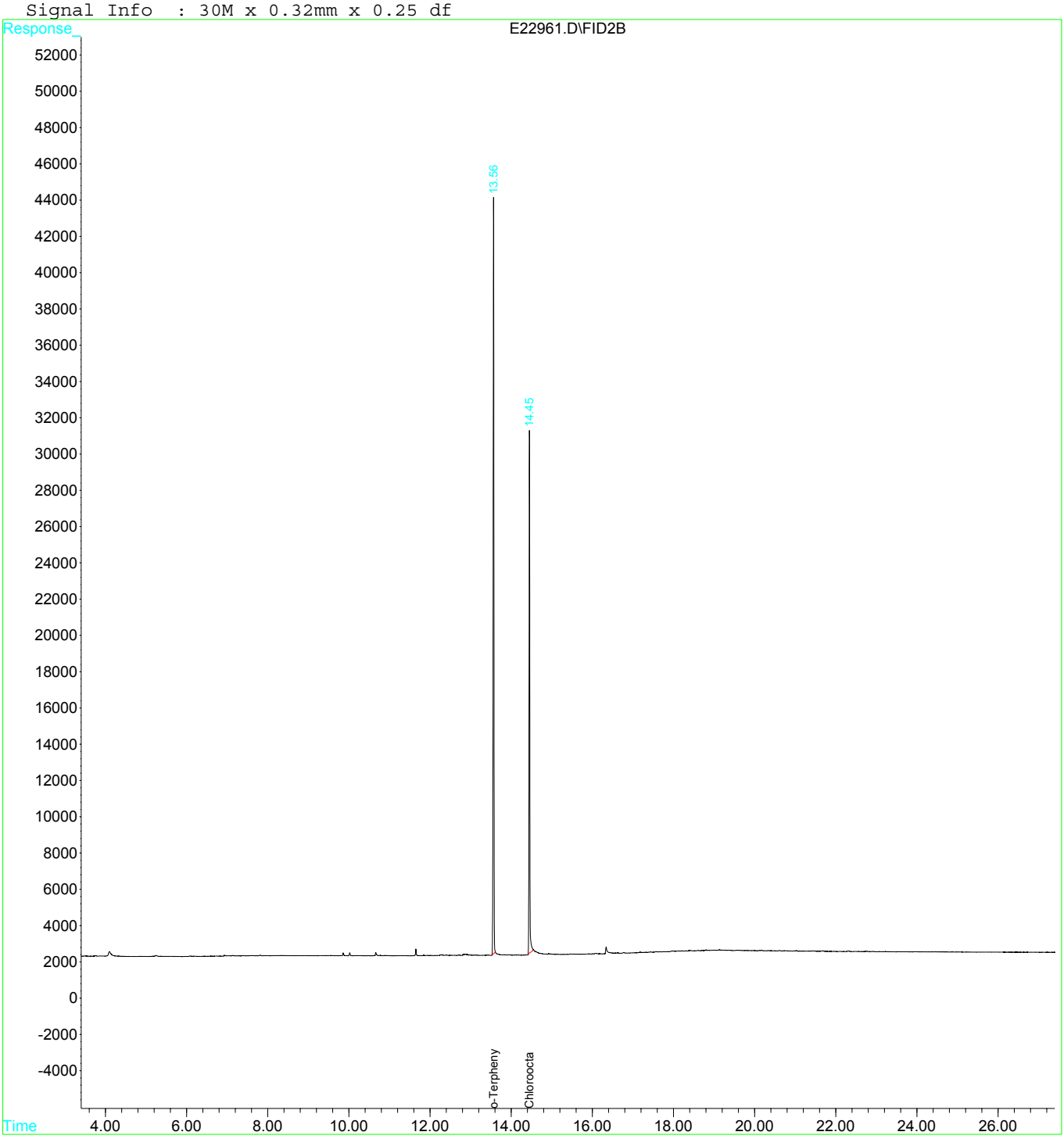
(f)=RT Delta > 1/2 Window (m)=manual int.
E22961.D ALIP1106.M Tue Oct 16 10:11:54 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22961.D Vial: 3
Acq On : 12 Oct 2018 12:03 pm Operator: BW
Sample : 8100452-10 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:27 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22962.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/12/18 12:38
Dilution:	1	Matrix:	Soil	Sequence:	S8J1601
Percent Solids:	90.63	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	11.0	22.1	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22962.D Vial: 4
Acq On : 12 Oct 2018 12:38 pm Operator: BW
Sample : 8100452-11 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:27 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
Target Compounds					
9)	o-Terphenyl	13.56	556782	25.286	mg/L
11)	Chlorooctadecane	14.45	381375	22.410	mg/L

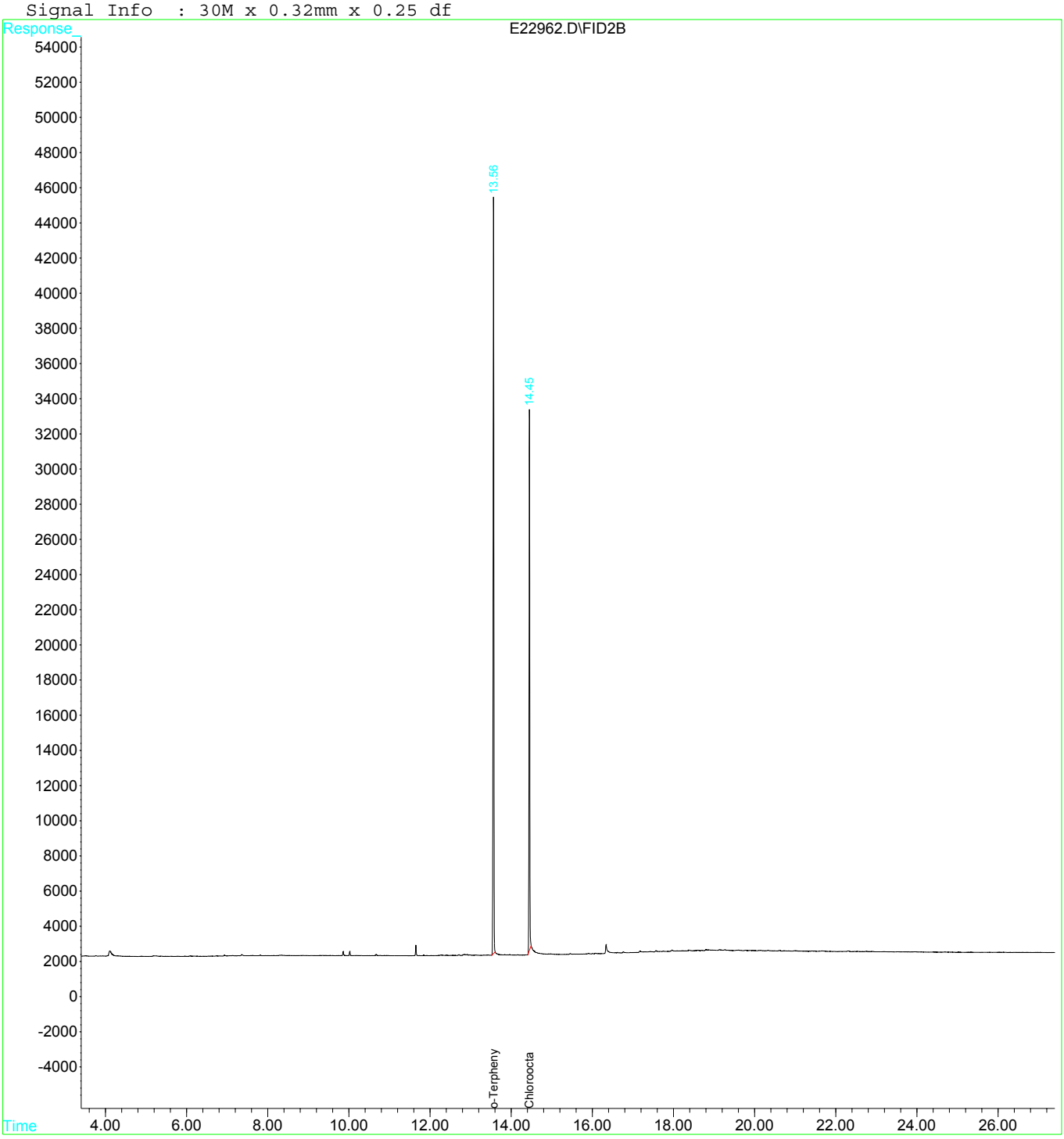
(f)=RT Delta > 1/2 Window (m)=manual int.
E22962.D ALIP1106.M Tue Oct 16 10:11:57 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22962.D Vial: 4
Acq On : 12 Oct 2018 12:38 pm Operator: BW
Sample : 8100452-11 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:27 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22963.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/12/18 13:13
Dilution:	1	Matrix:	Soil	Sequence:	S8J1601
Percent Solids:	91.70	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.9	21.8	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22963.D Vial: 5
Acq On : 12 Oct 2018 1:13 pm Operator: BW
Sample : 8100452-12 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:54 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units
Target Compounds					
9)	o-Terphenyl	13.56	542074	24.618	mg/L
11)	Chlorooctadecane	14.45	375904	22.089	mg/L

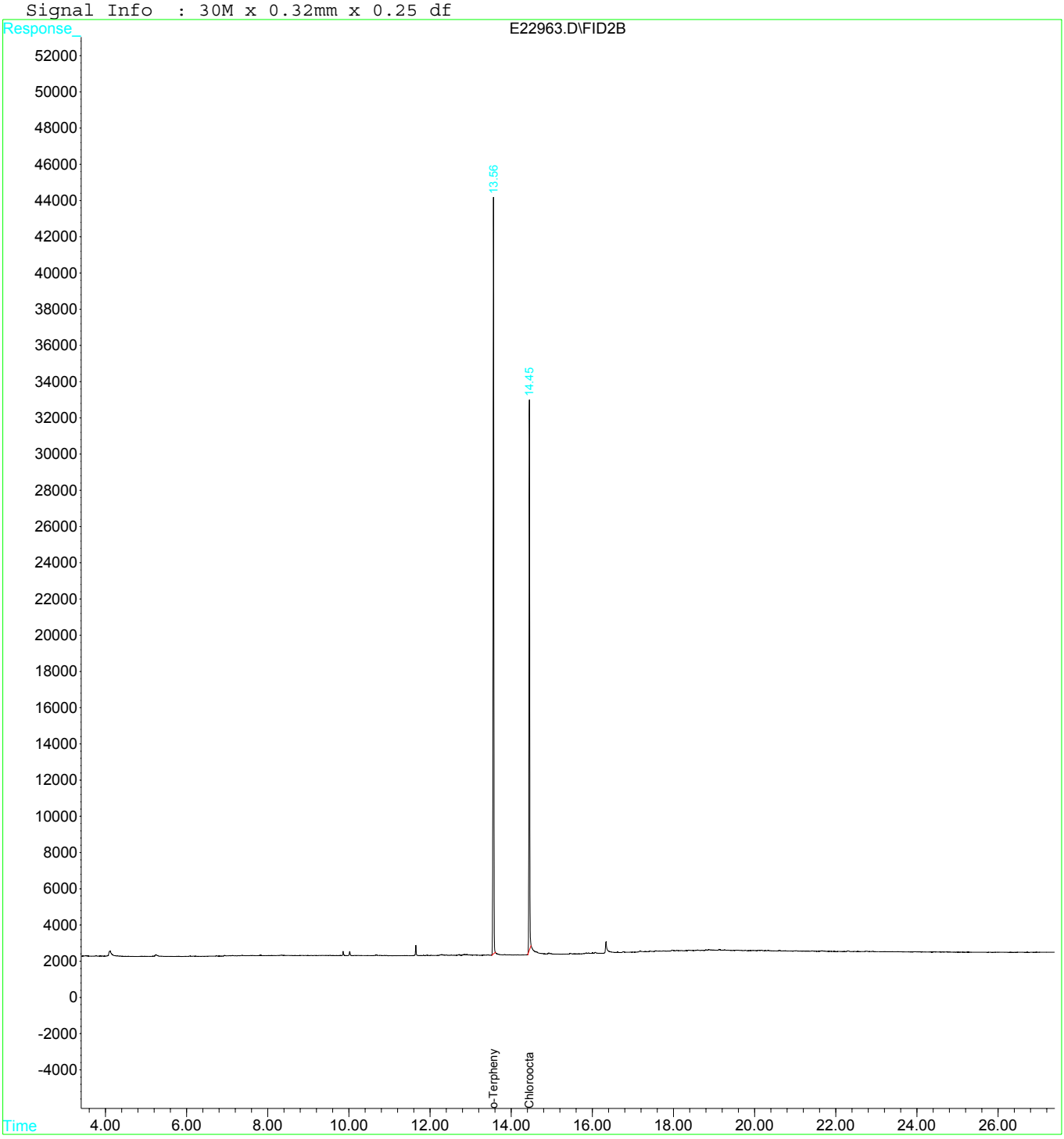
(f)=RT Delta > 1/2 Window (m)=manual int.
E22963.D ALIP1106.M Tue Oct 16 10:11:59 2018 SS

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22963.D Vial: 5
Acq On : 12 Oct 2018 1:13 pm Operator: BW
Sample : 8100452-12 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 13:54 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-5**
Lab Sample ID: **8100452-13**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22966.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/12/18 15:07
Dilution:	1	Matrix:	Soil	Sequence:	S8J1601
Percent Solids:	92.63	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.8	21.6	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22966.D Vial: 9
Acq On : 12 Oct 2018 3:07 pm Operator: BW
Sample : 8100452-13 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 16:01 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
9)	o-Terphenyl	13.56	533738	24.239	mg/L	
11)	Chlorooctadecane	14.45f	378388	22.235	mg/L	m

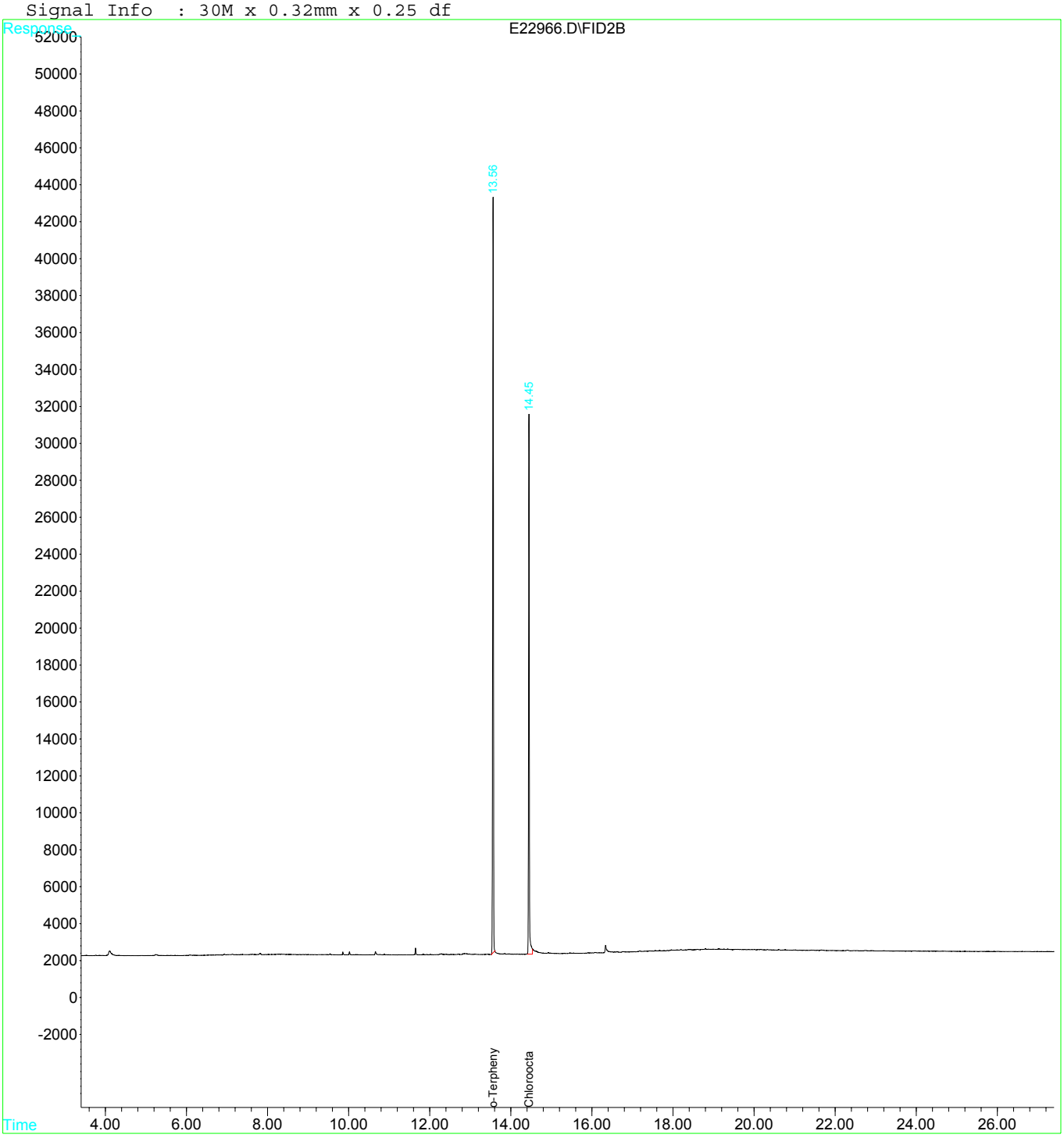
(f)=RT Delta > 1/2 Window (m)=manual int.
E22966.D ALIP1106.M Tue Oct 16 10:12:01 2018 SS

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22966.D Vial: 9
Acq On : 12 Oct 2018 3:07 pm Operator: BW
Sample : 8100452-13 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 12 16:01 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



ANALYSIS DATA SHEET

Extractable Petroleum Hydrocarbons Category 2 - NJDEP-EPH-CAT2

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:17	File ID:	E22967.D
Init/Final Vol:	10 g / 2 mL	Prep Batch:	B8J1103	Analyzed:	10/12/18 15:42
Dilution:	1	Matrix:	Soil	Sequence:	S8J1601
Percent Solids:	92.94	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
NJDEP-EPH2	Total EPH	ND	10.8	21.5	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22967.D Vial: 10
Acq On : 12 Oct 2018 3:42 pm Operator: BW
Sample : 8100452-14 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 16 10:11 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc Units
Target Compounds				
9)	o-Terphenyl	13.56	565545	25.684 mg/L
11)	Chlorooctadecane	14.45f	384500	22.594 mg/L

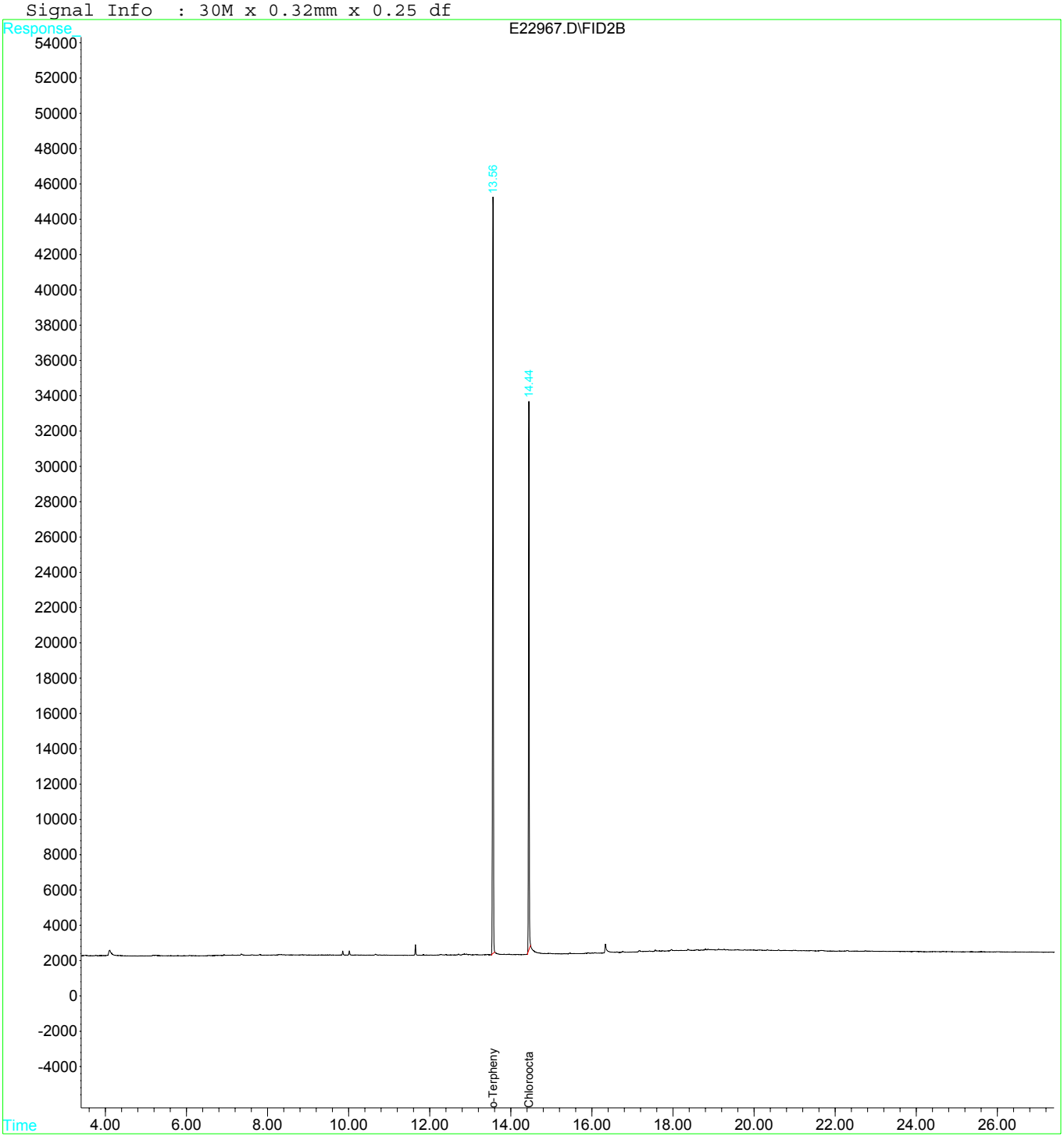
(f)=RT Delta > 1/2 Window (m)=manual int.
E22967.D ALIP1106.M Tue Oct 16 10:12:04 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181012\E22967.D Vial: 10
Acq On : 12 Oct 2018 3:42 pm Operator: BW
Sample : 8100452-14 Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 16 10:11 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



SURROGATE RECOVERIES

Analysis Class: GC

Matrix: Soil **Method:** NJDEP-EPH-CAT2

EPH Category 2

Lab Number	File ID	1-COD	O-TPL
8100452-01	E22935.D	49.0	52.2
8100452-02	E22936.D	53.7	55.6
8100452-03	E22937.D	52.4	54.4
8100452-04	E22938.D	48.7	51.7
8100452-05	E22939.D	49.6	51.9
8100452-06	E22940.D	44.6	47.3
8100452-07	E22941.D	47.0	49.7
8100452-08	E22942.D	48.2	50.3
8100452-09	E22960.D	42.4	44.7
8100452-10	E22961.D	43.7	48.9
8100452-11	E22962.D	44.8	50.6
8100452-12	E22963.D	44.2	49.2
8100452-13	E22966.D	44.5	48.5
8100452-14	E22967.D	45.2	51.4

Surrogate Limits		Lo Limit	Hi Limit
1-COD	1-Chlorooctadecane	40	121
O-TPL	o-Terphenyl	42.2	113

F-II

* - Outside of QC Limits

Extractable Petroleum Hydrocarbons Category 2 - Quality Control

Aqua Pro-Tech Laboratories

Batch B8J1103 **Method: NJDEP-EPH-CAT2** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1103-BS1		Total EPH	187	mg/kg wet	360		52.0	40-140		

Batch B8J1103 (cont.) **Method: NJDEP-EPH-CAT2** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1103-DUP1	8100452-01	Total EPH	57.4	mg/kg dry		62.8			9.04	200

Batch B8J1103 (cont.) **Method: NJDEP-EPH-CAT2** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1103-MS1	8100452-01	Total EPH	282	mg/kg dry	400	62.8	54.7	40-140		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

METHOD BLANK SUMMARY

Batch ID: **B8J1103**

Lab Number	Sample Id	Extraction Date	Analysis Date
B8J1103-BLK1	BLK1	10/11/2018	10/11/2018 21:15
B8J1103-BS1	BS1	10/11/2018	10/11/2018 21:49
B8J1103-DUP1	DUP1	10/11/2018	10/11/2018 22:59
B8J1103-MS1	MS1	10/11/2018	10/11/2018 22:24
8100452-01	NTP-1A	10/11/2018	10/11/2018 12:51
8100452-02	NTP-2A	10/11/2018	10/11/2018 13:27
8100452-03	NTP-2B	10/11/2018	10/11/2018 14:02
8100452-04	NTP-3B	10/11/2018	10/11/2018 14:37
8100452-05	NTP-4B	10/11/2018	10/11/2018 15:25
8100452-06	NTP-6	10/11/2018	10/11/2018 16:00
8100452-07	NTP-7	10/11/2018	10/11/2018 16:35
8100452-08	STP-1B	10/11/2018	10/11/2018 17:10
8100452-09	STP-2B	10/11/2018	10/12/2018 11:28
8100452-10	STP-3B	10/11/2018	10/12/2018 12:03
8100452-11	STP-4A	10/11/2018	10/12/2018 12:38
8100452-12	STP-4B	10/11/2018	10/12/2018 13:13
8100452-13	STP-5	10/11/2018	10/12/2018 15:07
8100452-14	STP-7	10/11/2018	10/12/2018 15:42

Response Factor Report GCFID-3

Method : G:\HPCHEM\GCFID3\METHODS\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Nov 07 08:45:46 2017

Calibration Files
25 =E18801.D 50 =E18802.D 100 =E18803.D
200 =E18804.D 300 =E18805.D

	Compound	25	50	100	200	300	Avg		%RSD
1)	n-Nonane	1.957	2.055	2.017	2.283	2.256	2.114	E4	6.94
2)	n-Decane	1.929	1.969	1.798	2.291	2.259	2.049	E4	10.54
3)	n-Dodecane	1.690	1.727	1.855	2.306	2.225	1.961	E4	14.60
4)	C9-C12 Aliphatics	2.023	2.043	2.218	2.527	2.321	2.227	E4	9.38
5)	n-Tetradecane	1.683	1.730	1.841	2.294	2.211	1.952	E4	14.46
6)	n-Hexadecane	1.821	1.878	1.858	2.302	2.218	2.015	E4	11.22
7)	C12-C16 Aliphatics	2.015	2.041	2.102	2.407	2.297	2.172	E4	7.89
8)	n-Octadecane	1.848	1.890	1.870	2.307	2.229	2.029	E4	10.86
9)	o-Terphenyl	1.798	2.197	1.987	2.584	2.444	2.202	E4	14.60
10)	n-Eicosane	1.881	1.907	1.868	2.219	2.124	2.000	E4	8.03
11)	Chlorooctadecane	1.416	1.739	1.587	2.040	1.727	1.702	E4	13.50
12)	n-Heneicosane	2.001	2.034	2.002	2.276	1.967	2.056	E4	6.10
13)	C16-C21 Aliphatics	3.497	3.330	2.626	2.816	2.548	2.963	E4	14.39
14)	n-Docosane	1.851	1.875	1.832	2.163	1.983	1.941	E4	7.07
15)	n-Tetracosane	1.833	1.859	1.820	2.156	1.982	1.930	E4	7.33
16)	n-Hexacosane	1.833	1.863	1.826	2.181	2.019	1.944	E4	7.91
17)	n-Octacosane	1.846	1.850	1.812	2.178	2.044	1.946	E4	8.13
18)	n-Triacontane	1.826	1.853	1.818	2.203	2.087	1.957	E4	9.02
19)	n-Dotriacontane	1.836	1.859	1.825	2.233	2.113	1.973	E4	9.51
20)	n-Tetratricontane	1.877	1.900	1.867	2.292	2.173	2.022	E4	9.75
21)	n-Hexatriacontane	1.836	1.857	1.829	2.255	2.095	1.974	E4	9.71
22)	n-Octatriacontane	1.839	1.864	1.843	2.265	2.020	1.966	E4	9.30
23)	n-Tetracontane	1.786	1.836	1.821	2.182	1.419	1.809	E4	14.96
24)	C21-C40 Aliphatics	2.496	2.289	1.945	2.376	2.100	2.241	E4	9.80
25)	Total EPH	2.859	2.582	1.981	2.421	2.415	2.452	E4	13.01

(#) = Out of Range

Compound List Report GCFID-3

Method : G:\HPCHEM\GCFID3\METHODS\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Nov 07 08:45:46 2017
Response via : Initial Calibration
Total Cpnds : 25

PK#	Type	Compound Name	Exp RT	Rel RT	Cal	A/H	ID
1		n-Nonane	3.85	1.000	A	A	B
2		n-Decane	5.53	1.000	A	A	B
3		n-Dodecane	8.32	1.000	A	A	B
4		C9-C12 Aliphatics	5.90	1.000	A	A	B
5		n-Tetradecane	10.15	1.000	A	A	B
6		n-Hexadecane	11.59	1.000	A	A	B
7		C12-C16 Aliphatics	10.60	1.000	A	A	B
8		n-Octadecane	12.84	1.000	A	A	B
9		o-Terphenyl	13.54	1.000	A	A	B
10		n-Eicosane	13.95	1.000	A	A	B
11		Chlorooctadecane	14.43	1.000	A	A	B
12		n-Heneicosane	14.47	1.000	A	A	B
13		C16-C21 Aliphatics	12.30	1.000	A	A	B
14		n-Docosane	14.96	1.000	A	A	B
15		n-Tetracosane	15.89	1.000	A	A	B
16		n-Hexacosane	16.76	1.000	A	A	B
17		n-Octacosane	17.56	1.000	A	A	B
18		n-Triacontane	18.36	1.000	A	A	B
19		n-Dotriacontane	19.26	1.000	A	A	B
20		n-Tetratricontane	20.33	1.000	A	A	B
21		n-Hexatriacontane	21.70	1.000	A	A	B
22		n-Octatriacontane	23.51	1.000	A	A	B
23		n-Tetracontane	25.99	1.000	A	A	B
24		C21-C40 Aliphatics	19.60	1.000	A	A	B
25		Total EPH	15.20	1.000	A	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

ALIP1106.M Tue Nov 07 10:35:18 2017 SS

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (Aliph):	S8J1218-CCV1	Init. Calib. Date(s):	11/06/2017
File ID:	E22933.D	Date Analyzed:	10/11/2018 12:11
EPH Category 2		Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Total EPH	12.88	-----	-----	22962	19581	14.70
					Average %D:	14.70

10 10.7.

* - Outside of QC limits

F-VII

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22933.D Vial: 1
Acq On : 11 Oct 2018 12:11 pm Operator: BW
Sample : SEQ-CCV Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 16:21 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Initial Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1)	n-Nonane	3.90	1735111	82.091	mg/L	m
2)	n-Decane	5.60	1538775	75.089	mg/L	
3)	n-Dodecane	8.37	1583399	80.754	mg/L	
5)	n-Tetradecane	10.20	1554474	79.645	mg/L	
6)	n-Hexadecane	11.64	1579341	78.366	mg/L	
8)	n-Octadecane	12.88	1627710	80.234	mg/L	
10)	n-Eicosane	13.99	1666390	83.332	mg/L	
12)	n-Heneicosane	14.51f	1816201	88.338	mg/L	
14)	n-Docosane	15.00	1652657	85.163	mg/L	
15)	n-Tetracosane	15.93	1656270	85.813	mg/L	
16)	n-Hexacosane	16.79	1669737	85.874	mg/L	
17)	n-Octacosane	17.59	1659367	85.264	mg/L	
18)	n-Triacontane	18.41	1657746	84.696	mg/L	
19)	n-Dotriacontane	19.31	1649178	83.572	mg/L	
20)	n-Tetratricontane	20.40	1652674	81.743	mg/L	
21)	n-Hexatriacontane	21.79	1542321	78.123	mg/L	
22)	n-Octatriacontane	23.64	1405688	71.496	mg/L	
23)	n-Tetracontane	26.16f	1161287	64.208	mg/L	
25)	Total EPH	12.88	35245779	1437.583	mg/L	m

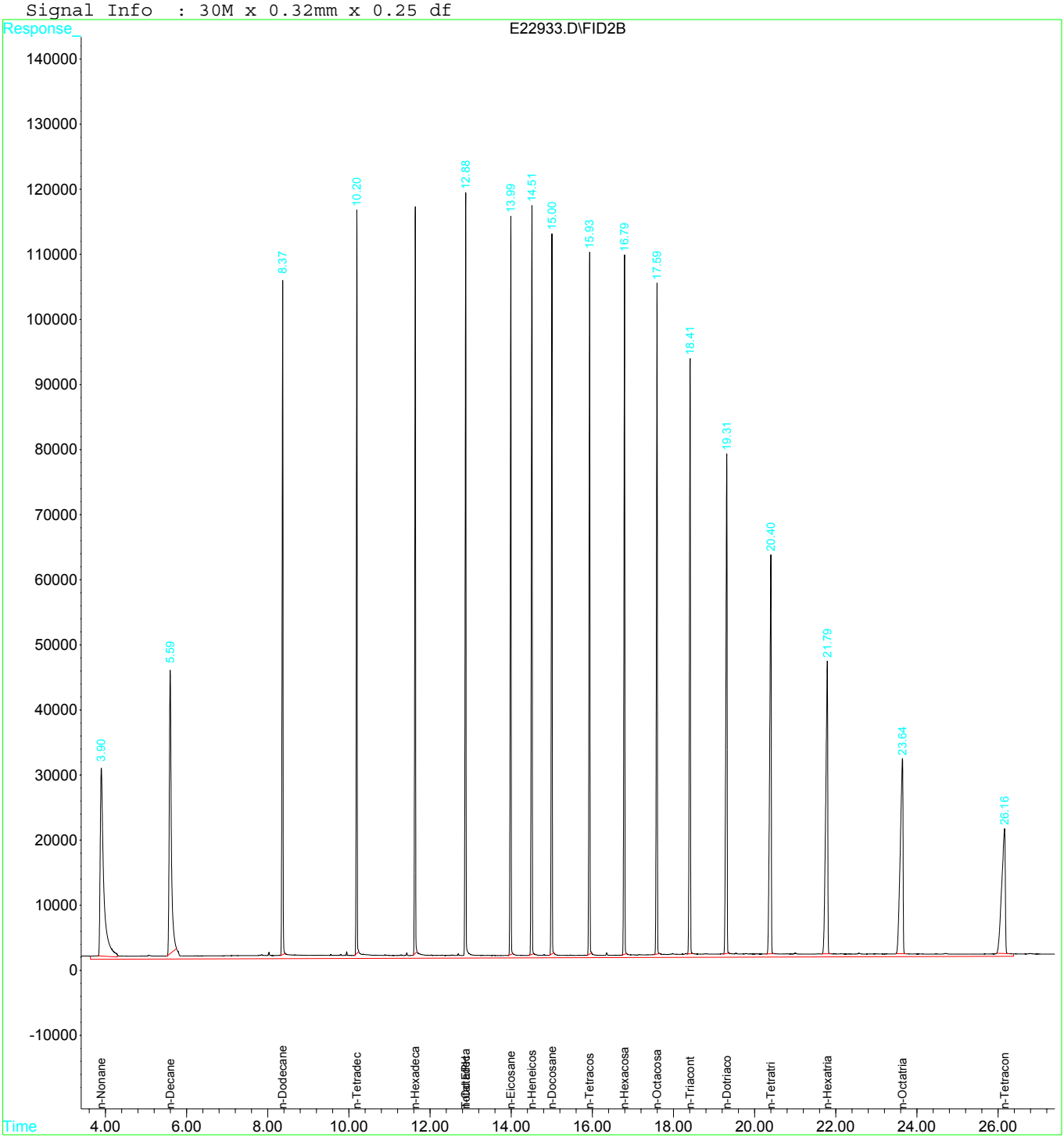
(f)=RT Delta > 1/2 Window (m)=manual int.
E22933.D ALIP1106.M Fri Oct 12 16:06:21 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\GCFID3\DATA\20181011\E22933.D Vial: 1
Acq On : 11 Oct 2018 12:11 pm Operator: BW
Sample : SEQ-CCV Inst : GCFID-3
Misc : Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Oct 11 16:21 2018 Quant Results File: ALIP1106.RES

Quant Method : G:\HPCHEM\G...\ALIP1106.M (Chemstation Integrator)
Title : Extractable Petroleum Hydrocarbons Aliphatics
Last Update : Tue Sep 25 10:37:10 2018
Response via : Multiple Level Calibration
DataAcq Meth : EPHALIP.M

Volume Inj. : 1 ul
Signal Phase : Rxi-5ms
Signal Info : 30M x 0.32mm x 0.25 df



E22933.D ALIP1106.M Fri Oct 12 16:06:22 2018 SS Page 2

MERCURY

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

Mercury

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452

Total Metals - Soil (SW 846 7471B)

Lab Number	Analyte	Extract	Concentration	Units	RL	DF	Analyst	Analyzed
B8J1110-BLK1	Mercury	0.6 g / 50 mL	ND	mg/kg wet	0.0416	1	AS	10/11/2018 12:01
S8J1108-CCB1	Mercury	N/A	ND	ug/L	0.499	1	AS	10/11/2018 12:36
S8J1108-CCB2	Mercury	N/A	ND	ug/L	0.499	1	AS	10/11/2018 13:18
S8J1108-ICB1	Mercury	N/A	ND	ug/L	0.499	1	AS	10/11/2018 11:55

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Mercury

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452

Total Metals - Soil (SW 846 7471B)

Lab Number	Analyte	Extract	Concentration	Units	RL	DF	Analyst	Analyzed
8100452-01	Mercury	0.51 / 50	ND	mg/kg dry	0.0544	1	AS	10/11/18 12:17
8100452-02	Mercury	0.58 / 50	ND	mg/kg dry	0.0465	1	AS	10/11/18 12:20
8100452-03	Mercury	0.53 / 50	ND	mg/kg dry	0.0510	1	AS	10/11/18 12:24
8100452-04	Mercury	0.55 / 50	ND	mg/kg dry	0.0497	1	AS	10/11/18 12:27
8100452-05	Mercury	0.54 / 50	ND	mg/kg dry	0.0502	1	AS	10/11/18 12:40
8100452-06	Mercury	0.56 / 50	ND	mg/kg dry	0.0508	1	AS	10/11/18 12:04
8100452-07	Mercury	0.57 / 50	ND	mg/kg dry	0.0479	1	AS	10/11/18 12:43
8100452-08	Mercury	0.61 / 50	ND	mg/kg dry	0.0457	1	AS	10/11/18 12:46
8100452-09	Mercury	0.53 / 50	ND	mg/kg dry	0.0514	1	AS	10/11/18 12:49
8100452-10	Mercury	0.57 / 50	0.0562	mg/kg dry	0.0478	1	AS	10/11/18 12:53
8100452-11	Mercury	0.51 / 50	ND	mg/kg dry	0.0540	1	AS	10/11/18 12:56
8100452-12	Mercury	0.55 / 50	ND	mg/kg dry	0.0495	1	AS	10/11/18 12:59
8100452-13	Mercury	0.52 / 50	ND	mg/kg dry	0.0518	1	AS	10/11/18 13:02
8100452-14	Mercury	0.58 / 50	ND	mg/kg dry	0.0463	1	AS	10/11/18 13:05

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

Batch B8J1110 **Method: SW 846 7471B** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1110-BS1		Mercury	0.833	mg/kg wet	0.833		100	80-120		

Batch B8J1110 (cont.) **Method: SW 846 7471B** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1110-DUP1	8100452-06	Mercury	ND	mg/kg dry		ND				20

Batch B8J1110 (cont.) **Method: SW 846 7471B** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1110-MS1	8100452-06	Mercury	1.06	mg/kg dry	1.02	ND	104	80-120		

Batch B8J1110 (cont.) **Method: SW 846 7471B** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1110-MSD1	8100452-06	Mercury	1.07	mg/kg dry	1.02	ND	105	80-120	0.819	20

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

METHOD BLANK SUMMARY

Batch ID: **B8J1110**

Lab Number	Sample Id	Extraction Date	Analysis Date
B8J1110-BLK1	BLK1	10/11/2018	10/11/2018 12:01
B8J1110-BS1	BS1	10/11/2018	10/11/2018 11:58
B8J1110-DUP1	DUP1	10/11/2018	10/11/2018 12:07
B8J1110-MS1	MS1	10/11/2018	10/11/2018 12:11
B8J1110-MSD1	MSD1	10/11/2018	10/11/2018 12:14
8100452-01	NTP-1A	10/11/2018	10/11/2018 12:17
8100452-02	NTP-2A	10/11/2018	10/11/2018 12:20
8100452-03	NTP-2B	10/11/2018	10/11/2018 12:24
8100452-04	NTP-3B	10/11/2018	10/11/2018 12:27
8100452-05	NTP-4B	10/11/2018	10/11/2018 12:40
8100452-06	NTP-6	10/11/2018	10/11/2018 12:04
8100452-07	NTP-7	10/11/2018	10/11/2018 12:43
8100452-08	STP-1B	10/11/2018	10/11/2018 12:46
8100452-09	STP-2B	10/11/2018	10/11/2018 12:49
8100452-10	STP-3B	10/11/2018	10/11/2018 12:53
8100452-11	STP-4A	10/11/2018	10/11/2018 12:56
8100452-12	STP-4B	10/11/2018	10/11/2018 12:59
8100452-13	STP-5	10/11/2018	10/11/2018 13:02
8100452-14	STP-7	10/11/2018	10/11/2018 13:05

ANALYSIS SEQUENCE SUMMARY

Laboratory:	Aqua Pro-Tech Laboratories	Work Order:	8100452
Client:	Peak Environmental	Project:	Ridgewood
Sequence:	S8J1108	Instrument:	Mercury Analyzer

Sample Name	Lab Sample ID	FileID	Analysis Date/Time
Initial Cal Check	S8J1108-ICV1	2018-10-11-A.csv-012	10/11/18 11:51
Initial Cal Blank	S8J1108-ICB1	2018-10-11-A.csv-013	10/11/18 11:55
LCS	B8J1110-BS1	2018-10-11-A.csv-014	10/11/18 11:58
Blank	B8J1110-BLK1	2018-10-11-A.csv-015	10/11/18 12:01
NTP-6	8100452-06	2018-10-11-A.csv-016	10/11/18 12:04
Duplicate	B8J1110-DUP1	2018-10-11-A.csv-017	10/11/18 12:07
Matrix Spike	B8J1110-MS1	2018-10-11-A.csv-018	10/11/18 12:11
Matrix Spike Dup	B8J1110-MSD1	2018-10-11-A.csv-019	10/11/18 12:14
NTP-1A	8100452-01	2018-10-11-A.csv-020	10/11/18 12:17
NTP-2A	8100452-02	2018-10-11-A.csv-021	10/11/18 12:20
NTP-2B	8100452-03	2018-10-11-A.csv-022	10/11/18 12:24
NTP-3B	8100452-04	2018-10-11-A.csv-023	10/11/18 12:27
Calibration Check	S8J1108-CCV1	2018-10-11-A.csv-025	10/11/18 12:33
Calibration Blank	S8J1108-CCB1	2018-10-11-A.csv-026	10/11/18 12:36
NTP-4B	8100452-05	2018-10-11-A.csv-027	10/11/18 12:40
NTP-7	8100452-07	2018-10-11-A.csv-028	10/11/18 12:43
STP-1B	8100452-08	2018-10-11-A.csv-029	10/11/18 12:46
STP-2B	8100452-09	2018-10-11-A.csv-030	10/11/18 12:49
STP-3B	8100452-10	2018-10-11-A.csv-031	10/11/18 12:53
STP-4A	8100452-11	2018-10-11-A.csv-032	10/11/18 12:56
STP-4B	8100452-12	2018-10-11-A.csv-033	10/11/18 12:59
STP-5	8100452-13	2018-10-11-A.csv-034	10/11/18 13:02
STP-7	8100452-14	2018-10-11-A.csv-035	10/11/18 13:05
Calibration Check	S8J1108-CCV2	2018-10-11-A.csv-038	10/11/18 13:15
Calibration Blank	S8J1108-CCB2	2018-10-11-A.csv-039	10/11/18 13:18

SEQUENCE CALIBRATION CHECKS

SW 846 7471B

Client: **Peak Environmental**
Project: **Ridgewood**
Work Order: **8100452**

Sequence: S8J1108
Instrument: Mercury Analyzer

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8J1108-ICV1	Mercury	10.0	10.6	106	ug/L	90-110
S8J1108-CCV1	Mercury	10.0	10.2	102	ug/L	80-120
S8J1108-CCV2	Mercury	10.0	10.3	103	ug/L	80-120

ICV = Initial Cal Verification CCV = Continuing Cal Verification IFB = Interference Check Standard B

METALS

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

Client: Peak Environmental
Client Sample ID: Blank
Lab Sample ID: B8J1105-BLK1
Project: Ridgewood
Work Order: 8100452

Init/Final Vol:	2 g / 50 mL	Prep Date:	10/11/2018 9:33:00AM
Matrix:	Soil	Prep Method:	Hot Block ICP Soil

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/2018 17:57	ND	mg/kg wet	2.50	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/2018 17:57	ND	mg/kg wet	1.25	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/2018 17:57	ND	mg/kg wet	1.25	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/2018 17:57	ND	mg/kg wet	0.500	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/2018 17:57	ND	mg/kg wet	0.0250	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/2018 17:57	ND	mg/kg wet	0.250	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/2018 17:57	ND	mg/kg wet	25.0	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/2018 17:57	ND	mg/kg wet	0.250	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/2018 17:57	ND	mg/kg wet	0.200	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/2018 17:57	ND	mg/kg wet	0.250	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/2018 17:57	ND	mg/kg wet	5.00	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/2018 17:57	ND	mg/kg wet	1.25	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/2018 17:57	ND	mg/kg wet	50.0	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/2018 17:57	ND	mg/kg wet	0.250	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/2018 17:57	ND	mg/kg wet	0.125	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/2018 17:57	ND	mg/kg wet	100	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/2018 17:57	ND	mg/kg wet	1.25	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/2018 17:57	ND	mg/kg wet	0.500	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/2018 17:57	ND	mg/kg wet	50.0	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/2018 17:57	ND	mg/kg wet	1.25	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/2018 17:57	ND	mg/kg wet	0.500	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/2018 17:57	ND	mg/kg wet	0.750	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: Peak Environmental
Client Sample ID: Calibration Blank
Lab Sample ID: S8J1112-CCB1
Project: Ridgewood
Work Order: 8100452

Init/Final Vol:	N/A	Prep Date:	10/11/2018 9:00:57AM
Matrix:	Soil	Prep Method:	

Total Metals - Aqueous (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/2018 14:58	ND	mg/L	0.100	1	MS	S8J1112/S8J1112
7440-36-0	Antimony	10/11/2018 14:58	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-38-2	Arsenic	10/11/2018 14:58	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-39-3	Barium	10/11/2018 14:58	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-41-7	Beryllium	10/11/2018 14:58	ND	mg/L	0.00100	1	MS	S8J1112/S8J1112
7440-43-9	Cadmium	10/11/2018 14:58	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-70-2	Calcium	10/11/2018 14:58	ND	mg/L	1.00	1	MS	S8J1112/S8J1112
7440-47-3	Chromium	10/11/2018 14:58	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-48-4	Cobalt	10/11/2018 14:58	ND	mg/L	0.00800	1	MS	S8J1112/S8J1112
7440-50-8	Copper	10/11/2018 14:58	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7439-89-6	Iron	10/11/2018 14:58	ND	mg/L	0.200	1	MS	S8J1112/S8J1112
7439-92-1	Lead	10/11/2018 14:58	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7439-95-4	Magnesium	10/11/2018 14:58	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7439-96-5	Manganese	10/11/2018 14:58	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-02-0	Nickel	10/11/2018 14:58	ND	mg/L	0.00500	1	MS	S8J1112/S8J1112
7440-09-7	Potassium	10/11/2018 14:58	ND	mg/L	4.00	1	MS	S8J1112/S8J1112
7782-49-2	Selenium	10/11/2018 14:58	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-22-4	Silver	10/11/2018 14:58	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-23-5	Sodium	10/11/2018 14:58	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7440-28-0	Thallium	10/11/2018 14:58	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-62-2	Vanadium	10/11/2018 14:58	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-66-6	Zinc	10/11/2018 14:58	ND	mg/L	0.0300	1	MS	S8J1112/S8J1112

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: Peak Environmental
Client Sample ID: Calibration Blank
Lab Sample ID: S8J1112-CCB2
Project: Ridgewood
Work Order: 8100452

Init/Final Vol:	N/A	Prep Date:	10/11/2018 9:00:57AM
Matrix:	Soil	Prep Method:	

Total Metals - Aqueous (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/2018 15:47	ND	mg/L	0.100	1	MS	S8J1112/S8J1112
7440-36-0	Antimony	10/11/2018 15:47	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-38-2	Arsenic	10/11/2018 15:47	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-39-3	Barium	10/11/2018 15:47	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-41-7	Beryllium	10/11/2018 15:47	ND	mg/L	0.00100	1	MS	S8J1112/S8J1112
7440-43-9	Cadmium	10/11/2018 15:47	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-70-2	Calcium	10/11/2018 15:47	ND	mg/L	1.00	1	MS	S8J1112/S8J1112
7440-47-3	Chromium	10/11/2018 15:47	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-48-4	Cobalt	10/11/2018 15:47	ND	mg/L	0.00800	1	MS	S8J1112/S8J1112
7440-50-8	Copper	10/11/2018 15:47	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7439-89-6	Iron	10/11/2018 15:47	ND	mg/L	0.200	1	MS	S8J1112/S8J1112
7439-92-1	Lead	10/11/2018 15:47	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7439-95-4	Magnesium	10/11/2018 15:47	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7439-96-5	Manganese	10/11/2018 15:47	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-02-0	Nickel	10/11/2018 15:47	ND	mg/L	0.00500	1	MS	S8J1112/S8J1112
7440-09-7	Potassium	10/11/2018 15:47	ND	mg/L	4.00	1	MS	S8J1112/S8J1112
7782-49-2	Selenium	10/11/2018 15:47	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-22-4	Silver	10/11/2018 15:47	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-23-5	Sodium	10/11/2018 15:47	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7440-28-0	Thallium	10/11/2018 15:47	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-62-2	Vanadium	10/11/2018 15:47	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-66-6	Zinc	10/11/2018 15:47	ND	mg/L	0.0300	1	MS	S8J1112/S8J1112

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

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ANALYSIS DATA SHEET

Client: Peak Environmental
Client Sample ID: Calibration Blank
Lab Sample ID: S8J1112-CCB3
Project: Ridgewood
Work Order: 8100452

Init/Final Vol:	N/A	Prep Date:	10/11/2018 9:00:57AM
Matrix:	Soil	Prep Method:	

Total Metals - Aqueous (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/2018 16:30	ND	mg/L	0.100	1	MS	S8J1112/S8J1112
7440-36-0	Antimony	10/11/2018 16:30	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-38-2	Arsenic	10/11/2018 16:30	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-39-3	Barium	10/11/2018 16:30	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-41-7	Beryllium	10/11/2018 16:30	ND	mg/L	0.00100	1	MS	S8J1112/S8J1112
7440-43-9	Cadmium	10/11/2018 16:30	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-70-2	Calcium	10/11/2018 16:30	ND	mg/L	1.00	1	MS	S8J1112/S8J1112
7440-47-3	Chromium	10/11/2018 16:30	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-48-4	Cobalt	10/11/2018 16:30	ND	mg/L	0.00800	1	MS	S8J1112/S8J1112
7440-50-8	Copper	10/11/2018 16:30	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7439-89-6	Iron	10/11/2018 16:30	ND	mg/L	0.200	1	MS	S8J1112/S8J1112
7439-92-1	Lead	10/11/2018 16:30	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7439-95-4	Magnesium	10/11/2018 16:30	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7439-96-5	Manganese	10/11/2018 16:30	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-02-0	Nickel	10/11/2018 16:30	ND	mg/L	0.00500	1	MS	S8J1112/S8J1112
7440-09-7	Potassium	10/11/2018 16:30	ND	mg/L	4.00	1	MS	S8J1112/S8J1112
7782-49-2	Selenium	10/11/2018 16:30	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-22-4	Silver	10/11/2018 16:30	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-23-5	Sodium	10/11/2018 16:30	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7440-28-0	Thallium	10/11/2018 16:30	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-62-2	Vanadium	10/11/2018 16:30	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-66-6	Zinc	10/11/2018 16:30	ND	mg/L	0.0300	1	MS	S8J1112/S8J1112

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

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ANALYSIS DATA SHEET

Client: Peak Environmental
Client Sample ID: Calibration Blank
Lab Sample ID: S8J1112-CCB4
Project: Ridgewood
Work Order: 8100452

Init/Final Vol:	N/A	Prep Date:	10/11/2018 9:00:57AM
Matrix:	Soil	Prep Method:	

Total Metals - Aqueous (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/2018 18:15	ND	mg/L	0.100	1	MS	S8J1112/S8J1112
7440-36-0	Antimony	10/11/2018 18:15	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-38-2	Arsenic	10/11/2018 18:15	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-39-3	Barium	10/11/2018 18:15	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-41-7	Beryllium	10/11/2018 18:15	ND	mg/L	0.00100	1	MS	S8J1112/S8J1112
7440-43-9	Cadmium	10/11/2018 18:15	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-70-2	Calcium	10/11/2018 18:15	ND	mg/L	1.00	1	MS	S8J1112/S8J1112
7440-47-3	Chromium	10/11/2018 18:15	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-48-4	Cobalt	10/11/2018 18:15	ND	mg/L	0.00800	1	MS	S8J1112/S8J1112
7440-50-8	Copper	10/11/2018 18:15	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7439-89-6	Iron	10/11/2018 18:15	ND	mg/L	0.200	1	MS	S8J1112/S8J1112
7439-92-1	Lead	10/11/2018 18:15	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7439-95-4	Magnesium	10/11/2018 18:15	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7439-96-5	Manganese	10/11/2018 18:15	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-02-0	Nickel	10/11/2018 18:15	ND	mg/L	0.00500	1	MS	S8J1112/S8J1112
7440-09-7	Potassium	10/11/2018 18:15	ND	mg/L	4.00	1	MS	S8J1112/S8J1112
7782-49-2	Selenium	10/11/2018 18:15	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-22-4	Silver	10/11/2018 18:15	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-23-5	Sodium	10/11/2018 18:15	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7440-28-0	Thallium	10/11/2018 18:15	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-62-2	Vanadium	10/11/2018 18:15	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-66-6	Zinc	10/11/2018 18:15	ND	mg/L	0.0300	1	MS	S8J1112/S8J1112

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

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ANALYSIS DATA SHEET

Client: Peak Environmental
Client Sample ID: Initial Cal Blank
Lab Sample ID: S8J1112-ICB1
Project: Ridgewood
Work Order: 8100452

Init/Final Vol:	N/A	Prep Date:	10/11/2018 9:00:57AM
Matrix:	Soil	Prep Method:	

Total Metals - Aqueous (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/2018 10:19	ND	mg/L	0.100	1	MS	S8J1112/S8J1112
7440-36-0	Antimony	10/11/2018 10:19	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-38-2	Arsenic	10/11/2018 10:19	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-39-3	Barium	10/11/2018 10:19	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-41-7	Beryllium	10/11/2018 10:19	ND	mg/L	0.00100	1	MS	S8J1112/S8J1112
7440-43-9	Cadmium	10/11/2018 10:19	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-70-2	Calcium	10/11/2018 10:19	ND	mg/L	1.00	1	MS	S8J1112/S8J1112
7440-47-3	Chromium	10/11/2018 10:19	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-48-4	Cobalt	10/11/2018 10:19	ND	mg/L	0.00800	1	MS	S8J1112/S8J1112
7440-50-8	Copper	10/11/2018 10:19	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7439-89-6	Iron	10/11/2018 10:19	ND	mg/L	0.200	1	MS	S8J1112/S8J1112
7439-92-1	Lead	10/11/2018 10:19	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7439-95-4	Magnesium	10/11/2018 10:19	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7439-96-5	Manganese	10/11/2018 10:19	ND	mg/L	0.0100	1	MS	S8J1112/S8J1112
7440-02-0	Nickel	10/11/2018 10:19	ND	mg/L	0.00500	1	MS	S8J1112/S8J1112
7440-09-7	Potassium	10/11/2018 10:19	ND	mg/L	4.00	1	MS	S8J1112/S8J1112
7782-49-2	Selenium	10/11/2018 10:19	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-22-4	Silver	10/11/2018 10:19	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-23-5	Sodium	10/11/2018 10:19	ND	mg/L	2.00	1	MS	S8J1112/S8J1112
7440-28-0	Thallium	10/11/2018 10:19	ND	mg/L	0.0500	1	MS	S8J1112/S8J1112
7440-62-2	Vanadium	10/11/2018 10:19	ND	mg/L	0.0200	1	MS	S8J1112/S8J1112
7440-66-6	Zinc	10/11/2018 10:19	ND	mg/L	0.0300	1	MS	S8J1112/S8J1112

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

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ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	1.98 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	89.91		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:32	3290	mg/kg dry	2.81	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:32	ND	mg/kg dry	1.40	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:32	ND	mg/kg dry	1.40	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:32	18.6	mg/kg dry	0.562	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:32	0.138	mg/kg dry	0.0281	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:32	ND	mg/kg dry	0.281	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:32	938	mg/kg dry	28.1	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:32	5.14	mg/kg dry	0.281	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:32	2.31	mg/kg dry	0.225	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:32	8.71	mg/kg dry	0.281	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:32	7190	mg/kg dry	5.62	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:32	23.8	mg/kg dry	1.40	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:32	763	mg/kg dry	56.2	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:32	125	mg/kg dry	0.281	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:32	4.33	mg/kg dry	0.140	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:32	212	mg/kg dry	112	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:32	ND	mg/kg dry	1.40	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:32	ND	mg/kg dry	0.562	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:32	107	mg/kg dry	56.2	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:32	ND	mg/kg dry	1.40	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:32	9.94	mg/kg dry	0.562	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:32	22.8	mg/kg dry	0.843	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.06 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	92.54		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:34	3800	mg/kg dry	2.62	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:34	ND	mg/kg dry	1.31	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:34	ND	mg/kg dry	1.31	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:34	21.4	mg/kg dry	0.525	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:34	0.160	mg/kg dry	0.0262	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:34	ND	mg/kg dry	0.262	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:34	1260	mg/kg dry	26.2	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:34	6.19	mg/kg dry	0.262	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:34	2.83	mg/kg dry	0.210	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:34	10.4	mg/kg dry	0.262	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:34	8240	mg/kg dry	5.25	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:34	26.2	mg/kg dry	1.31	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:34	952	mg/kg dry	52.5	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:34	144	mg/kg dry	0.262	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:34	5.14	mg/kg dry	0.131	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:34	251	mg/kg dry	105	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:34	ND	mg/kg dry	1.31	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:34	ND	mg/kg dry	0.525	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:34	116	mg/kg dry	52.5	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:34	ND	mg/kg dry	1.31	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:34	11.2	mg/kg dry	0.525	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:34	30.2	mg/kg dry	0.787	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-2B**
Lab Sample ID: **8100452-03**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.12 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	92.25		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:36	3620	mg/kg dry	2.56	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:36	ND	mg/kg dry	1.28	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:36	ND	mg/kg dry	1.28	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:36	17.9	mg/kg dry	0.511	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:36	0.184	mg/kg dry	0.0256	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:36	ND	mg/kg dry	0.256	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:36	1100	mg/kg dry	25.6	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:36	5.98	mg/kg dry	0.256	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:36	2.49	mg/kg dry	0.205	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:36	9.46	mg/kg dry	0.256	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:36	8490	mg/kg dry	5.11	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:36	19.0	mg/kg dry	1.28	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:36	885	mg/kg dry	51.1	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:36	139	mg/kg dry	0.256	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:36	5.09	mg/kg dry	0.128	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:36	233	mg/kg dry	102	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:36	ND	mg/kg dry	1.28	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:36	ND	mg/kg dry	0.511	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:36	93.8	mg/kg dry	51.1	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:36	ND	mg/kg dry	1.28	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:36	12.0	mg/kg dry	0.511	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:36	24.5	mg/kg dry	0.767	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-3B**
Lab Sample ID: **8100452-04**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.06 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	91.33		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:38	4300	mg/kg dry	2.66	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:38	ND	mg/kg dry	1.33	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:38	ND	mg/kg dry	1.33	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:38	24.3	mg/kg dry	0.532	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:38	0.181	mg/kg dry	0.0266	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:38	ND	mg/kg dry	0.266	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:38	619	mg/kg dry	26.6	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:38	7.12	mg/kg dry	0.266	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:38	3.03	mg/kg dry	0.213	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:38	7.89	mg/kg dry	0.266	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:38	9220	mg/kg dry	5.32	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:38	6.72	mg/kg dry	1.33	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:38	946	mg/kg dry	53.2	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:38	165	mg/kg dry	0.266	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:38	5.13	mg/kg dry	0.133	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:38	252	mg/kg dry	106	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:38	ND	mg/kg dry	1.33	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:38	ND	mg/kg dry	0.532	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:38	136	mg/kg dry	53.2	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:38	ND	mg/kg dry	1.33	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:38	13.4	mg/kg dry	0.532	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:38	20.3	mg/kg dry	0.797	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/11/18 09:33
Init/Final Vol:	1.9 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	92.00		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:40	5500	mg/kg dry	2.86	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:40	ND	mg/kg dry	1.43	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:40	ND	mg/kg dry	1.43	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:40	31.8	mg/kg dry	0.572	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:40	0.203	mg/kg dry	0.0286	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:40	ND	mg/kg dry	0.286	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:40	933	mg/kg dry	28.6	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:40	11.2	mg/kg dry	0.286	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:40	4.83	mg/kg dry	0.229	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:40	9.21	mg/kg dry	0.286	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:40	12100	mg/kg dry	5.72	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:40	5.21	mg/kg dry	1.43	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:40	1750	mg/kg dry	57.2	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:40	229	mg/kg dry	0.286	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:40	7.75	mg/kg dry	0.143	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:40	261	mg/kg dry	114	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:40	ND	mg/kg dry	1.43	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:40	ND	mg/kg dry	0.572	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:40	335	mg/kg dry	57.2	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:40	ND	mg/kg dry	1.43	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:40	18.9	mg/kg dry	0.572	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:40	17.6	mg/kg dry	0.858	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/11/18 09:33
Init/Final Vol:	1.94 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	87.70		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:42	6670	mg/kg dry	2.94	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:42	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:42	1.71	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:42	29.1	mg/kg dry	0.588	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:42	0.282	mg/kg dry	0.0294	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:42	ND	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:42	1140	mg/kg dry	29.4	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:42	9.79	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:42	3.59	mg/kg dry	0.235	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:42	10.1	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:42	12300	mg/kg dry	5.88	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:42	7.82	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:42	1290	mg/kg dry	58.8	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:42	176	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:42	6.47	mg/kg dry	0.147	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:42	361	mg/kg dry	118	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:42	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:42	ND	mg/kg dry	0.588	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:42	132	mg/kg dry	58.8	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:42	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:42	17.4	mg/kg dry	0.588	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:42	20.9	mg/kg dry	0.882	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.02 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	91.36		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:44	4450	mg/kg dry	2.71	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:44	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:44	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:44	21.4	mg/kg dry	0.542	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:44	0.160	mg/kg dry	0.0271	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:44	ND	mg/kg dry	0.271	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:44	1080	mg/kg dry	27.1	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:44	6.67	mg/kg dry	0.271	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:44	3.01	mg/kg dry	0.217	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:44	8.67	mg/kg dry	0.271	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:44	8450	mg/kg dry	5.42	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:44	11.3	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:44	1090	mg/kg dry	54.2	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:44	145	mg/kg dry	0.271	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:44	5.23	mg/kg dry	0.135	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:44	230	mg/kg dry	108	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:44	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:44	ND	mg/kg dry	0.542	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:44	160	mg/kg dry	54.2	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:44	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:44	12.8	mg/kg dry	0.542	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:44	21.1	mg/kg dry	0.813	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.08 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	89.59		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:46	5040	mg/kg dry	2.68	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:46	ND	mg/kg dry	1.34	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:46	ND	mg/kg dry	1.34	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:46	20.2	mg/kg dry	0.537	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:46	0.191	mg/kg dry	0.0268	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:46	ND	mg/kg dry	0.268	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:46	453	mg/kg dry	26.8	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:46	7.08	mg/kg dry	0.268	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:46	3.03	mg/kg dry	0.215	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:46	7.22	mg/kg dry	0.268	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:46	9500	mg/kg dry	5.37	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:46	4.88	mg/kg dry	1.34	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:46	966	mg/kg dry	53.7	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:46	144	mg/kg dry	0.268	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:46	5.18	mg/kg dry	0.134	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:46	260	mg/kg dry	107	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:46	ND	mg/kg dry	1.34	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:46	ND	mg/kg dry	0.537	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:46	72.2	mg/kg dry	53.7	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:46	ND	mg/kg dry	1.34	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:46	13.0	mg/kg dry	0.537	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:46	23.5	mg/kg dry	0.805	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

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ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-2B**
Lab Sample ID: **8100452-09**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:30	Prep Date:	10/11/18 09:33
Init/Final Vol:	1.86 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	91.55		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:48	5700	mg/kg dry	2.94	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:48	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:48	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:48	23.4	mg/kg dry	0.587	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:48	0.223	mg/kg dry	0.0294	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:48	ND	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:48	473	mg/kg dry	29.4	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:48	7.63	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:48	3.23	mg/kg dry	0.235	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:48	8.57	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:48	11100	mg/kg dry	5.87	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:48	6.05	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:48	1070	mg/kg dry	58.7	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:48	187	mg/kg dry	0.294	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:48	5.76	mg/kg dry	0.147	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:48	271	mg/kg dry	117	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:48	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:48	ND	mg/kg dry	0.587	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:48	74.3	mg/kg dry	58.7	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:48	ND	mg/kg dry	1.47	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:48	13.9	mg/kg dry	0.587	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:48	38.2	mg/kg dry	0.881	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

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ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-3B**
Lab Sample ID: **8100452-10**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:40	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.11 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	91.53		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 14:50	4900	mg/kg dry	2.59	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 14:50	ND	mg/kg dry	1.29	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 14:50	1.65	mg/kg dry	1.29	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 14:50	19.4	mg/kg dry	0.518	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 14:50	0.184	mg/kg dry	0.0259	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 14:50	ND	mg/kg dry	0.259	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 14:50	463	mg/kg dry	25.9	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 14:50	6.68	mg/kg dry	0.259	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 14:50	2.90	mg/kg dry	0.207	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 14:50	7.66	mg/kg dry	0.259	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 14:50	9550	mg/kg dry	5.18	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 14:50	6.01	mg/kg dry	1.29	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 14:50	977	mg/kg dry	51.8	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 14:50	163	mg/kg dry	0.259	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 14:50	5.18	mg/kg dry	0.129	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 14:50	272	mg/kg dry	104	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 14:50	ND	mg/kg dry	1.29	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 14:50	ND	mg/kg dry	0.518	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 14:50	74.0	mg/kg dry	51.8	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 14:50	ND	mg/kg dry	1.29	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 14:50	12.7	mg/kg dry	0.518	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 14:50	21.0	mg/kg dry	0.777	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	1.95 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	90.63		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 15:31	6100	mg/kg dry	2.83	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 15:31	ND	mg/kg dry	1.41	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 15:31	ND	mg/kg dry	1.41	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 15:31	23.3	mg/kg dry	0.566	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 15:31	0.215	mg/kg dry	0.0283	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 15:31	ND	mg/kg dry	0.283	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 15:31	634	mg/kg dry	28.3	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 15:31	8.26	mg/kg dry	0.283	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 15:31	3.51	mg/kg dry	0.226	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 15:31	9.17	mg/kg dry	0.283	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 15:31	10900	mg/kg dry	5.66	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 15:31	10.6	mg/kg dry	1.41	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 15:31	1110	mg/kg dry	56.6	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 15:31	209	mg/kg dry	0.283	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 15:31	6.25	mg/kg dry	0.141	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 15:31	286	mg/kg dry	113	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 15:31	ND	mg/kg dry	1.41	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 15:31	ND	mg/kg dry	0.566	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 15:31	85.2	mg/kg dry	56.6	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 15:31	ND	mg/kg dry	1.41	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 15:31	15.4	mg/kg dry	0.566	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 15:31	20.4	mg/kg dry	0.849	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.02 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	91.70		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 15:33	5610	mg/kg dry	2.70	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 15:33	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 15:33	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 15:33	24.9	mg/kg dry	0.540	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 15:33	0.211	mg/kg dry	0.0270	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 15:33	ND	mg/kg dry	0.270	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 15:33	899	mg/kg dry	27.0	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 15:33	7.75	mg/kg dry	0.270	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 15:33	3.46	mg/kg dry	0.216	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 15:33	8.07	mg/kg dry	0.270	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 15:33	10600	mg/kg dry	5.40	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 15:33	8.26	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 15:33	1220	mg/kg dry	54.0	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 15:33	261	mg/kg dry	0.270	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 15:33	6.18	mg/kg dry	0.135	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 15:33	283	mg/kg dry	108	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 15:33	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 15:33	ND	mg/kg dry	0.540	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 15:33	82.6	mg/kg dry	54.0	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 15:33	ND	mg/kg dry	1.35	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 15:33	14.7	mg/kg dry	0.540	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 15:33	23.2	mg/kg dry	0.810	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-5**
Lab Sample ID: **8100452-13**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	1.88 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	92.63		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 15:37	6860	mg/kg dry	2.87	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 15:37	ND	mg/kg dry	1.44	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 15:37	3.01	mg/kg dry	1.44	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 15:37	23.0	mg/kg dry	0.574	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 15:37	0.256	mg/kg dry	0.0287	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 15:37	ND	mg/kg dry	0.287	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 15:37	310	mg/kg dry	28.7	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 15:37	8.30	mg/kg dry	0.287	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 15:37	4.74	mg/kg dry	0.230	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 15:37	9.68	mg/kg dry	0.287	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 15:37	15100	mg/kg dry	5.74	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 15:37	5.25	mg/kg dry	1.44	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 15:37	1150	mg/kg dry	57.4	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 15:37	333	mg/kg dry	0.287	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 15:37	7.29	mg/kg dry	0.144	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 15:37	241	mg/kg dry	115	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 15:37	ND	mg/kg dry	1.44	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 15:37	ND	mg/kg dry	0.574	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 15:37	ND	mg/kg dry	57.4	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 15:37	ND	mg/kg dry	1.44	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 15:37	17.3	mg/kg dry	0.574	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 15:37	39.9	mg/kg dry	0.861	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

ANALYSIS DATA SHEET

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 09:33
Init/Final Vol:	2.12 g / 50 mL	Prep Method:	Hot Block ICP Soil
Matrix:	Soil		
Percent Solids:	92.94		

Total Metals - Soil (SW 846 6010D)

CAS NO.	Analyte	Analyzed	Concentration	Units	RL	DF	Analyst	Sequence/Batch
7429-90-5	Aluminum	10/11/18 15:39	4650	mg/kg dry	2.54	1	MS	S8J1112/B8J1105
7440-36-0	Antimony	10/11/18 15:39	ND	mg/kg dry	1.27	1	MS	S8J1112/B8J1105
7440-38-2	Arsenic	10/11/18 15:39	1.49	mg/kg dry	1.27	1	MS	S8J1112/B8J1105
7440-39-3	Barium	10/11/18 15:39	18.5	mg/kg dry	0.508	1	MS	S8J1112/B8J1105
7440-41-7	Beryllium	10/11/18 15:39	0.178	mg/kg dry	0.0254	1	MS	S8J1112/B8J1105
7440-43-9	Cadmium	10/11/18 15:39	ND	mg/kg dry	0.254	1	MS	S8J1112/B8J1105
7440-70-2	Calcium	10/11/18 15:39	294	mg/kg dry	25.4	1	MS	S8J1112/B8J1105
7440-47-3	Chromium	10/11/18 15:39	6.14	mg/kg dry	0.254	1	MS	S8J1112/B8J1105
7440-48-4	Cobalt	10/11/18 15:39	2.97	mg/kg dry	0.203	1	MS	S8J1112/B8J1105
7440-50-8	Copper	10/11/18 15:39	6.73	mg/kg dry	0.254	1	MS	S8J1112/B8J1105
7439-89-6	Iron	10/11/18 15:39	9110	mg/kg dry	5.08	1	MS	S8J1112/B8J1105
7439-92-1	Lead	10/11/18 15:39	4.31	mg/kg dry	1.27	1	MS	S8J1112/B8J1105
7439-95-4	Magnesium	10/11/18 15:39	910	mg/kg dry	50.8	1	MS	S8J1112/B8J1105
7439-96-5	Manganese	10/11/18 15:39	240	mg/kg dry	0.254	1	MS	S8J1112/B8J1105
7440-02-0	Nickel	10/11/18 15:39	5.05	mg/kg dry	0.127	1	MS	S8J1112/B8J1105
7440-09-7	Potassium	10/11/18 15:39	210	mg/kg dry	102	1	MS	S8J1112/B8J1105
7782-49-2	Selenium	10/11/18 15:39	ND	mg/kg dry	1.27	1	MS	S8J1112/B8J1105
7440-22-4	Silver	10/11/18 15:39	ND	mg/kg dry	0.508	1	MS	S8J1112/B8J1105
7440-23-5	Sodium	10/11/18 15:39	52.0	mg/kg dry	50.8	1	MS	S8J1112/B8J1105
7440-28-0	Thallium	10/11/18 15:39	ND	mg/kg dry	1.27	1	MS	S8J1112/B8J1105
7440-62-2	Vanadium	10/11/18 15:39	11.8	mg/kg dry	0.508	1	MS	S8J1112/B8J1105
7440-66-6	Zinc	10/11/18 15:39	24.1	mg/kg dry	0.761	1	MS	S8J1112/B8J1105

ND - Indicates compound analyzed for but not detected

RL - Reporting limit
DF - Dilution Factor

F-I

Total Metals - Quality Control

Aqua Pro-Tech Laboratories

Batch B8J1105 **Method: SW 846 6010D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1105-BS1		Aluminum	4590	mg/kg wet	5000		91.7	80-120		
B8J1105-BS1		Antimony	11.2	mg/kg wet	12.5		90.0	80-120		
B8J1105-BS1		Arsenic	11.2	mg/kg wet	12.5		89.6	80-120		
B8J1105-BS1		Barium	11.4	mg/kg wet	12.5		91.4	80-120		
B8J1105-BS1		Beryllium	12.2	mg/kg wet	12.5		97.2	80-120		
B8J1105-BS1		Cadmium	11.6	mg/kg wet	12.5		92.4	80-120		
B8J1105-BS1		Calcium	2980	mg/kg wet	3120		95.2	80-120		
B8J1105-BS1		Chromium	11.5	mg/kg wet	12.5		92.0	80-120		
B8J1105-BS1		Cobalt	11.0	mg/kg wet	12.5		88.0	80-120		
B8J1105-BS1		Copper	12.3	mg/kg wet	12.5		98.6	80-120		
B8J1105-BS1		Iron	6650	mg/kg wet	7500		88.7	80-120		
B8J1105-BS1		Lead	11.0	mg/kg wet	12.5		88.0	80-120		
B8J1105-BS1		Magnesium	2910	mg/kg wet	3120		93.0	80-120		
B8J1105-BS1		Manganese	11.4	mg/kg wet	12.5		90.8	80-120		
B8J1105-BS1		Nickel	11.0	mg/kg wet	12.5		87.6	80-120		
B8J1105-BS1		Potassium	2950	mg/kg wet	3120		94.4	80-120		
B8J1105-BS1		Selenium	10.9	mg/kg wet	12.5		87.4	80-120		
B8J1105-BS1		Silver	10.6	mg/kg wet	12.5		84.6	80-120		
B8J1105-BS1		Sodium	2920	mg/kg wet	3120		93.6	80-120		
B8J1105-BS1		Thallium	11.2	mg/kg wet	12.5		89.8	80-120		
B8J1105-BS1		Vanadium	11.8	mg/kg wet	12.5		94.8	80-120		
B8J1105-BS1		Zinc	10.7	mg/kg wet	12.5		85.8	80-120		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1105 (cont.) **Method: SW 846 6010D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1105-DUP1	8100452-13	Aluminum	5880	mg/kg dry		6860			15.4	20
B8J1105-DUP1	8100452-13	Antimony	ND	mg/kg dry		ND				20
B8J1105-DUP1	8100452-13	Arsenic	3.16	mg/kg dry		3.01			4.65	20
B8J1105-DUP1	8100452-13	Barium	20.0	mg/kg dry		23.0			13.8	20
B8J1105-DUP1	8100452-13	Beryllium	0.224	mg/kg dry		0.256			13.2	20
B8J1105-DUP1	8100452-13	Cadmium	ND	mg/kg dry		ND				20
B8J1105-DUP1	8100452-13	Calcium	141	mg/kg dry		310			75.2*	20
B8J1105-DUP1	8100452-13	Chromium	7.41	mg/kg dry		8.30			11.3	20
B8J1105-DUP1	8100452-13	Cobalt	4.39	mg/kg dry		4.74			7.55	20
B8J1105-DUP1	8100452-13	Copper	8.30	mg/kg dry		9.68			15.3	20
B8J1105-DUP1	8100452-13	Iron	13800	mg/kg dry		15100			8.54	20
B8J1105-DUP1	8100452-13	Lead	3.90	mg/kg dry		5.25			29.5*	20
B8J1105-DUP1	8100452-13	Magnesium	904	mg/kg dry		1150			23.6*	20
B8J1105-DUP1	8100452-13	Manganese	322	mg/kg dry		333			3.51	20
B8J1105-DUP1	8100452-13	Nickel	6.69	mg/kg dry		7.29			8.62	20
B8J1105-DUP1	8100452-13	Potassium	196	mg/kg dry		241			20.4*	20
B8J1105-DUP1	8100452-13	Selenium	ND	mg/kg dry		ND				20
B8J1105-DUP1	8100452-13	Silver	ND	mg/kg dry		ND				20
B8J1105-DUP1	8100452-13	Sodium	ND	mg/kg dry		ND				20
B8J1105-DUP1	8100452-13	Thallium	ND	mg/kg dry		ND				20
B8J1105-DUP1	8100452-13	Vanadium	15.0	mg/kg dry		17.3			13.7	20
B8J1105-DUP1	8100452-13	Zinc	35.3	mg/kg dry		39.9			12.2	20

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1105 (cont.) **Method: SW 846 6010D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1105-MS1	8100452-13	Aluminum	11700	mg/kg dry	5740	6860	84.7	75-125		
B8J1105-MS1	8100452-13	Antimony	10.4	mg/kg dry	14.4	ND	72.2*	75-125		
B8J1105-MS1	8100452-13	Arsenic	14.3	mg/kg dry	14.4	3.01	78.8	75-125		
B8J1105-MS1	8100452-13	Barium	32.7	mg/kg dry	14.4	23.0	68.0*	75-125		
B8J1105-MS1	8100452-13	Beryllium	12.1	mg/kg dry	14.4	0.256	82.4	75-125		
B8J1105-MS1	8100452-13	Cadmium	11.0	mg/kg dry	14.4	ND	76.8	75-125		
B8J1105-MS1	8100452-13	Calcium	3010	mg/kg dry	3590	310	75.4	75-125		
B8J1105-MS1	8100452-13	Chromium	19.1	mg/kg dry	14.4	8.30	75.2	75-125		
B8J1105-MS1	8100452-13	Cobalt	15.4	mg/kg dry	14.4	4.74	74.0*	75-125		
B8J1105-MS1	8100452-13	Copper	22.0	mg/kg dry	14.4	9.68	86.2	75-125		
B8J1105-MS1	8100452-13	Iron	21700	mg/kg dry	8610	15100	77.0	75-125		
B8J1105-MS1	8100452-13	Lead	14.2	mg/kg dry	14.4	5.25	62.4*	75-125		
B8J1105-MS1	8100452-13	Magnesium	3920	mg/kg dry	3590	1150	77.2	75-125		
B8J1105-MS1	8100452-13	Manganese	362	mg/kg dry	14.4	333	200(NC)	75-125		
B8J1105-MS1	8100452-13	Nickel	17.6	mg/kg dry	14.4	7.29	72.0*	75-125		
B8J1105-MS1	8100452-13	Potassium	3070	mg/kg dry	3590	241	78.9	75-125		
B8J1105-MS1	8100452-13	Selenium	10.3	mg/kg dry	14.4	ND	72.0*	75-125		
B8J1105-MS1	8100452-13	Silver	10.3	mg/kg dry	14.4	ND	72.0*	75-125		
B8J1105-MS1	8100452-13	Sodium	2930	mg/kg dry	3590	53.4 J	80.1	75-125		
B8J1105-MS1	8100452-13	Thallium	10.8	mg/kg dry	14.4	0.307 J	73.3*	75-125		
B8J1105-MS1	8100452-13	Vanadium	29.0	mg/kg dry	14.4	17.3	81.8	75-125		
B8J1105-MS1	8100452-13	Zinc	49.7	mg/kg dry	14.4	39.9	68.0*	75-125		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1105 (cont.) **Method: SW 846 6010D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1105-MSD1	8100452-13	Aluminum	12100	mg/kg dry	5740	6860	91.8	75-125	3.42	20
B8J1105-MSD1	8100452-13	Antimony	12.0	mg/kg dry	14.4	ND	83.6	75-125	14.6	20
B8J1105-MSD1	8100452-13	Arsenic	15.6	mg/kg dry	14.4	3.01	87.6	75-125	8.45	20
B8J1105-MSD1	8100452-13	Barium	33.6	mg/kg dry	14.4	23.0	74.0*	75-125	2.60	20
B8J1105-MSD1	8100452-13	Beryllium	13.8	mg/kg dry	14.4	0.256	94.4	75-125	13.3	20
B8J1105-MSD1	8100452-13	Cadmium	12.7	mg/kg dry	14.4	ND	88.4	75-125	14.0	20
B8J1105-MSD1	8100452-13	Calcium	3420	mg/kg dry	3590	310	86.6	75-125	12.5	20
B8J1105-MSD1	8100452-13	Chromium	20.5	mg/kg dry	14.4	8.30	84.8	75-125	6.97	20
B8J1105-MSD1	8100452-13	Cobalt	16.8	mg/kg dry	14.4	4.74	83.8	75-125	8.76	20
B8J1105-MSD1	8100452-13	Copper	23.5	mg/kg dry	14.4	9.68	96.2	75-125	6.31	20
B8J1105-MSD1	8100452-13	Iron	21900	mg/kg dry	8610	15100	79.3	75-125	0.922	20
B8J1105-MSD1	8100452-13	Lead	16.1	mg/kg dry	14.4	5.25	75.4	75-125	12.3	20
B8J1105-MSD1	8100452-13	Magnesium	4240	mg/kg dry	3590	1150	86.3	75-125	7.99	20
B8J1105-MSD1	8100452-13	Manganese	359	mg/kg dry	14.4	333	180(NC)	75-125	0.797	20
B8J1105-MSD1	8100452-13	Nickel	19.1	mg/kg dry	14.4	7.29	82.0	75-125	7.82	20
B8J1105-MSD1	8100452-13	Potassium	3500	mg/kg dry	3590	241	90.9	75-125	13.1	20
B8J1105-MSD1	8100452-13	Selenium	11.8	mg/kg dry	14.4	ND	82.2	75-125	13.2	20
B8J1105-MSD1	8100452-13	Silver	11.7	mg/kg dry	14.4	ND	81.2	75-125	12.0	20
B8J1105-MSD1	8100452-13	Sodium	3330	mg/kg dry	3590	53.4 J	91.3	75-125	12.8	20
B8J1105-MSD1	8100452-13	Thallium	12.3	mg/kg dry	14.4	0.307 J	83.9	75-125	13.1	20
B8J1105-MSD1	8100452-13	Vanadium	29.3	mg/kg dry	14.4	17.3	83.8	75-125	0.985	20
B8J1105-MSD1	8100452-13	Zinc	50.2	mg/kg dry	14.4	39.9	72.0*	75-125	1.15	20

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL
NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1105 (cont.) **Method: SW 846 6010D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1105-PS1	8100452-13	Aluminum	428	mg/L	200	239	94.5	75-125		
B8J1105-PS1	8100452-13	Antimony	0.480	mg/L	0.500	ND	96.0	75-125		
B8J1105-PS1	8100452-13	Arsenic	0.607	mg/L	0.500	0.105 J	100	75-125		
B8J1105-PS1	8100452-13	Barium	1.19	mg/L	0.500	0.800	78.0	75-125		
B8J1105-PS1	8100452-13	Beryllium	0.529	mg/L	0.500	0.00890 J	104	75-125		
B8J1105-PS1	8100452-13	Cadmium	0.503	mg/L	0.500	ND	101	75-125		
B8J1105-PS1	8100452-13	Calcium	132	mg/L	125	10.8 J	97.0	75-125		
B8J1105-PS1	8100452-13	Chromium	0.751	mg/L	0.500	0.289	92.4	75-125		
B8J1105-PS1	8100452-13	Cobalt	0.627	mg/L	0.500	0.165 J	92.4	75-125		
B8J1105-PS1	8100452-13	Copper	0.868	mg/L	0.500	0.337	106	75-125		
B8J1105-PS1	8100452-13	Iron	756	mg/L	300	525	77.0	75-125		
B8J1105-PS1	8100452-13	Lead	0.589	mg/L	0.500	0.183 J	81.2	75-125		
B8J1105-PS1	8100452-13	Magnesium	161	mg/L	125	39.9 J	96.6	75-125		
B8J1105-PS1	8100452-13	Manganese	11.2	mg/L	0.500	11.6	-80.0(NC)	75-125		
B8J1105-PS1	8100452-13	Nickel	0.693	mg/L	0.500	0.254	87.8	75-125		
B8J1105-PS1	8100452-13	Potassium	137	mg/L	125	8.38 J	103	75-125		
B8J1105-PS1	8100452-13	Selenium	0.477	mg/L	0.500	ND	95.4	75-125		
B8J1105-PS1	8100452-13	Silver	0.392	mg/L	0.500	ND	78.4	75-125		
B8J1105-PS1	8100452-13	Sodium	128	mg/L	125	1.86 J	101	75-125		
B8J1105-PS1	8100452-13	Thallium	0.473	mg/L	0.500	0.0107 J	92.5	75-125		
B8J1105-PS1	8100452-13	Vanadium	1.06	mg/L	0.500	0.601	91.8	75-125		
B8J1105-PS1	8100452-13	Zinc	1.75	mg/L	0.500	1.39	72.0*	75-125		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Total Metals - Quality Control

Aqua Pro-Tech Laboratories

Sequence S8J1112 **Method: SW 846 6010D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
S8J1112-SRD1	8100452-13	Aluminum	6940	mg/kg dry		6860			1.21	10
S8J1112-SRD1	8100452-13	Antimony	ND	mg/kg dry		ND				10
S8J1112-SRD1	8100452-13	Arsenic	ND	mg/kg dry		3.01				10
S8J1112-SRD1	8100452-13	Barium	25.3	mg/kg dry		23.0			9.52	10
S8J1112-SRD1	8100452-13	Beryllium	0.258	mg/kg dry		0.256			1.12	10
S8J1112-SRD1	8100452-13	Cadmium	ND	mg/kg dry		ND				10
S8J1112-SRD1	8100452-13	Calcium	324	mg/kg dry		310			4.52	10
S8J1112-SRD1	8100452-13	Chromium	8.96	mg/kg dry		8.30			7.65	10
S8J1112-SRD1	8100452-13	Cobalt	5.12	mg/kg dry		4.74			7.86	10
S8J1112-SRD1	8100452-13	Copper	9.99	mg/kg dry		9.68			3.21	10
S8J1112-SRD1	8100452-13	Iron	15900	mg/kg dry		15100			5.56	10
S8J1112-SRD1	8100452-13	Lead	ND	mg/kg dry		5.25				10
S8J1112-SRD1	8100452-13	Magnesium	1270	mg/kg dry		1150			10.1*	10
S8J1112-SRD1	8100452-13	Manganese	375	mg/kg dry		333			11.8*	10
S8J1112-SRD1	8100452-13	Nickel	8.10	mg/kg dry		7.29			10.4*	10
S8J1112-SRD1	8100452-13	Potassium	ND	mg/kg dry		241				10
S8J1112-SRD1	8100452-13	Selenium	ND	mg/kg dry		ND				10
S8J1112-SRD1	8100452-13	Silver	ND	mg/kg dry		ND				10
S8J1112-SRD1	8100452-13	Sodium	ND	mg/kg dry		53.4 J				10
S8J1112-SRD1	8100452-13	Thallium	ND	mg/kg dry		0.307 J				10
S8J1112-SRD1	8100452-13	Vanadium	18.4	mg/kg dry		17.3			6.29	10
S8J1112-SRD1	8100452-13	Zinc	45.2	mg/kg dry		39.9			12.5*	10

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

METHOD BLANK SUMMARY

Batch ID: **B8J1105**

Lab Number	Sample Id	Extraction Date	Analysis Date
B8J1105-BLK1	BLK1	10/11/2018	10/11/2018 17:57
B8J1105-BS1	BS1	10/11/2018	10/11/2018 17:58
B8J1105-DUP1	DUP1	10/11/2018	10/11/2018 18:00
B8J1105-MS1	MS1	10/11/2018	10/11/2018 18:03
B8J1105-MSD1	MSD1	10/11/2018	10/11/2018 18:05
B8J1105-PS1	PS1	10/11/2018	10/11/2018 18:07
8100452-01	NTP-1A	10/11/2018	10/11/2018 14:32
8100452-02	NTP-2A	10/11/2018	10/11/2018 14:34
8100452-03	NTP-2B	10/11/2018	10/11/2018 14:36
8100452-04	NTP-3B	10/11/2018	10/11/2018 14:38
8100452-05	NTP-4B	10/11/2018	10/11/2018 14:40
8100452-06	NTP-6	10/11/2018	10/11/2018 14:42
8100452-07	NTP-7	10/11/2018	10/11/2018 14:44
8100452-08	STP-1B	10/11/2018	10/11/2018 14:46
8100452-09	STP-2B	10/11/2018	10/11/2018 14:48
8100452-10	STP-3B	10/11/2018	10/11/2018 14:50
8100452-11	STP-4A	10/11/2018	10/11/2018 15:31
8100452-12	STP-4B	10/11/2018	10/11/2018 15:33
8100452-13	STP-5	10/11/2018	10/11/2018 15:37
8100452-14	STP-7	10/11/2018	10/11/2018 15:39

ANALYSIS SEQUENCE SUMMARY

Laboratory:	Aqua Pro-Tech Laboratories	Work Order:	8100452
Client:	Peak Environmental	Project:	Ridgewood
Sequence:	S8J1112	Instrument:	ICP OES-1

Sample Name	Lab Sample ID	FileID	Analysis Date/Time
Initial Cal Check	S8J1112-ICV1	APL1_METHOD_IEC_2018-10-	10/11/18 10:15
Initial Cal Blank	S8J1112-ICB1	APL1_METHOD_IEC_2018-10-	10/11/18 10:19
Interference Check A	S8J1112-IFA1	APL1_METHOD_IEC_2018-10-	10/11/18 10:20
Interference Check B	S8J1112-IFB1	APL1_METHOD_IEC_2018-10-	10/11/18 10:22
NTP-1A	8100452-01	APL1_METHOD_IEC_2018-10-	10/11/18 14:32
NTP-2A	8100452-02	APL1_METHOD_IEC_2018-10-	10/11/18 14:34
NTP-2B	8100452-03	APL1_METHOD_IEC_2018-10-	10/11/18 14:36
NTP-3B	8100452-04	APL1_METHOD_IEC_2018-10-	10/11/18 14:38
NTP-4B	8100452-05	APL1_METHOD_IEC_2018-10-	10/11/18 14:40
NTP-6	8100452-06	APL1_METHOD_IEC_2018-10-	10/11/18 14:42
NTP-7	8100452-07	APL1_METHOD_IEC_2018-10-	10/11/18 14:44
STP-1B	8100452-08	APL1_METHOD_IEC_2018-10-	10/11/18 14:46
STP-2B	8100452-09	APL1_METHOD_IEC_2018-10-	10/11/18 14:48
STP-3B	8100452-10	APL1_METHOD_IEC_2018-10-	10/11/18 14:50
Calibration Check	S8J1112-CCV1	APL1_METHOD_IEC_2018-10-	10/11/18 14:54
Calibration Check	S8J1112-CCV2	APL1_METHOD_IEC_2018-10-	10/11/18 14:56
Calibration Blank	S8J1112-CCB1	APL1_METHOD_IEC_2018-10-	10/11/18 14:58
STP-4A	8100452-11	APL1_METHOD_IEC_2018-10-	10/11/18 15:31
STP-4B	8100452-12	APL1_METHOD_IEC_2018-10-	10/11/18 15:33
Serial Dilution	S8J1112-SRD1	APL1_METHOD_IEC_2018-10-	10/11/18 15:35
STP-5	8100452-13	APL1_METHOD_IEC_2018-10-	10/11/18 15:37
STP-7	8100452-14	APL1_METHOD_IEC_2018-10-	10/11/18 15:39
Calibration Check	S8J1112-CCV3	APL1_METHOD_IEC_2018-10-	10/11/18 15:43
Calibration Check	S8J1112-CCV4	APL1_METHOD_IEC_2018-10-	10/11/18 15:45
Calibration Blank	S8J1112-CCB2	APL1_METHOD_IEC_2018-10-	10/11/18 15:47
Calibration Check	S8J1112-CCV5	APL1_METHOD_IEC_2018-10-	10/11/18 16:27
Calibration Check	S8J1112-CCV6	APL1_METHOD_IEC_2018-10-	10/11/18 16:28
Calibration Blank	S8J1112-CCB3	APL1_METHOD_IEC_2018-10-	10/11/18 16:30
Blank	B8J1105-BLK1	APL1_METHOD_IEC_2018-10-	10/11/18 17:57
LCS	B8J1105-BS1	APL1_METHOD_IEC_2018-10-	10/11/18 17:58
Duplicate	B8J1105-DUP1	APL1_METHOD_IEC_2018-10-	10/11/18 18:00
Matrix Spike	B8J1105-MS1	APL1_METHOD_IEC_2018-10-	10/11/18 18:03
Matrix Spike Dup	B8J1105-MSD1	APL1_METHOD_IEC_2018-10-	10/11/18 18:05

F-V

ANALYSIS SEQUENCE SUMMARY

Laboratory:	Aqua Pro-Tech Laboratories	Work Order:	8100452
Client:	Peak Environmental	Project:	Ridgewood
Sequence:	S8J1112	Instrument:	ICP OES-1

Sample Name	Lab Sample ID	FileID	Analysis Date/Time
Post Spike	B8J1105-PS1	APL1_METHOD_IEC_2018-10-	10/11/18 18:07
Calibration Check	S8J1112-CCV7	APL1_METHOD_IEC_2018-10-	10/11/18 18:11
Calibration Check	S8J1112-CCV8	APL1_METHOD_IEC_2018-10-	10/11/18 18:13
Calibration Blank	S8J1112-CCB4	APL1_METHOD_IEC_2018-10-	10/11/18 18:15

F-V

SEQUENCE CALIBRATION CHECKS

SW 846 6010D

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452

Sequence: S8J1112
Instrument: ICP OES-1

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8J1112-ICV1	Antimony	1.00	0.969	96.9	mg/L	90-110
	Arsenic	1.00	0.975	97.5	mg/L	90-110
	Barium	1.00	0.979	97.9	mg/L	90-110
	Beryllium	1.00	0.982	98.2	mg/L	90-110
	Cadmium	1.00	0.977	97.7	mg/L	90-110
	Chromium	1.00	0.975	97.5	mg/L	90-110
	Cobalt	1.00	0.976	97.6	mg/L	90-110
	Copper	1.00	0.976	97.6	mg/L	90-110
	Lead	1.00	0.972	97.2	mg/L	90-110
	Manganese	1.00	0.970	97.0	mg/L	90-110
	Nickel	1.00	0.973	97.3	mg/L	90-110
	Selenium	1.00	0.992	99.2	mg/L	90-110
	Silver	1.00	0.922	92.2	mg/L	90-110
	Thallium	1.00	0.973	97.3	mg/L	90-110
	Vanadium	1.00	0.972	97.2	mg/L	90-110
	Zinc	1.00	0.982	98.2	mg/L	90-110
S8J1112-IFB1	Aluminum	501	515	103	mg/L	80-120
	Antimony	1.00	1.00	100	mg/L	80-120
	Arsenic	1.00	1.01	101	mg/L	80-120
	Barium	1.00	0.969	96.9	mg/L	80-120
	Beryllium	1.00	1.04	104	mg/L	80-120
	Cadmium	1.00	1.02	102	mg/L	80-120
	Calcium	501	494	98.6	mg/L	80-120
	Chromium	1.00	0.960	96.0	mg/L	80-120
	Cobalt	1.00	0.909	90.9	mg/L	80-120
	Copper	1.00	1.07	107	mg/L	80-120
	Iron	201	195	97.0	mg/L	80-120
	Lead	1.00	0.901	90.1	mg/L	80-120
	Magnesium	501	500	99.9	mg/L	80-120
	Manganese	1.00	0.944	94.4	mg/L	80-120
	Nickel	1.00	0.884	88.4	mg/L	80-120
	Selenium	1.00	0.996	99.6	mg/L	80-120
	Silver	1.00	1.00	100	mg/L	80-120
	Thallium	1.00	0.946	94.6	mg/L	80-120
	Vanadium	1.00	0.994	99.4	mg/L	80-120
	Zinc	1.00	0.903	90.3	mg/L	80-120
S8J1112-CCV1	Antimony	1.00	0.968	96.8	mg/L	90-110
	Arsenic	1.00	0.977	97.7	mg/L	90-110
	Barium	1.00	0.984	98.4	mg/L	90-110

ICV = Initial Cal Verification CCV = Continuing Cal Verification IFB = Interference Check Standard B

F-VII

SEQUENCE CALIBRATION CHECKS

SW 846 6010D

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452

Sequence: S8J1112
Instrument: ICP OES-1

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8J1112-CCV1	Beryllium	1.00	1.00	100	mg/L	90-110
	Cadmium	1.00	0.982	98.2	mg/L	90-110
	Chromium	1.00	0.981	98.1	mg/L	90-110
	Cobalt	1.00	0.967	96.7	mg/L	90-110
	Copper	1.00	0.984	98.4	mg/L	90-110
	Lead	1.00	0.971	97.1	mg/L	90-110
	Manganese	1.00	0.976	97.6	mg/L	90-110
	Nickel	1.00	0.974	97.4	mg/L	90-110
	Selenium	1.00	0.994	99.4	mg/L	90-110
	Silver	1.00	0.933	93.3	mg/L	90-110
	Thallium	1.00	0.979	97.9	mg/L	90-110
	Vanadium	1.00	0.973	97.3	mg/L	90-110
	Zinc	1.00	0.960	96.0	mg/L	90-110
S8J1112-CCV2	Aluminum	100	99.4	99.4	mg/L	90-110
	Calcium	100	99.0	99.0	mg/L	90-110
	Iron	40.0	39.5	98.8	mg/L	90-110
	Magnesium	100	98.8	98.8	mg/L	90-110
	Potassium	100	100	100	mg/L	90-110
	Sodium	100	99.1	99.1	mg/L	90-110
S8J1112-CCV3	Antimony	1.00	0.986	98.6	mg/L	90-110
	Arsenic	1.00	0.991	99.1	mg/L	90-110
	Barium	1.00	1.00	100	mg/L	90-110
	Beryllium	1.00	1.02	102	mg/L	90-110
	Cadmium	1.00	1.00	100	mg/L	90-110
	Chromium	1.00	1.00	100	mg/L	90-110
	Cobalt	1.00	0.988	98.8	mg/L	90-110
	Copper	1.00	1.01	101	mg/L	90-110
	Lead	1.00	0.992	99.2	mg/L	90-110
	Manganese	1.00	0.998	99.8	mg/L	90-110
	Nickel	1.00	0.995	99.5	mg/L	90-110
	Selenium	1.00	1.01	101	mg/L	90-110
	Silver	1.00	0.950	95.0	mg/L	90-110
	Thallium	1.00	1.00	100	mg/L	90-110
	Vanadium	1.00	0.995	99.5	mg/L	90-110
	Zinc	1.00	0.978	97.8	mg/L	90-110
S8J1112-CCV4	Aluminum	100	101	101	mg/L	90-110
	Calcium	100	101	101	mg/L	90-110
	Iron	40.0	40.0	100	mg/L	90-110

ICV = Initial Cal Verification CCV = Continuing Cal Verification IFB = Interference Check Standard B

F-VII

SEQUENCE CALIBRATION CHECKS

SW 846 6010D

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452

Sequence: S8J1112
Instrument: ICP OES-1

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8J1112-CCV4	Magnesium	100	101	101	mg/L	90-110
	Potassium	100	102	102	mg/L	90-110
	Sodium	100	100	100	mg/L	90-110
S8J1112-CCV5	Antimony	1.00	0.981	98.1	mg/L	90-110
	Arsenic	1.00	0.981	98.1	mg/L	90-110
	Barium	1.00	1.00	100	mg/L	90-110
	Beryllium	1.00	1.01	101	mg/L	90-110
	Cadmium	1.00	1.00	100	mg/L	90-110
	Chromium	1.00	1.00	100	mg/L	90-110
	Cobalt	1.00	0.985	98.5	mg/L	90-110
	Copper	1.00	1.00	100	mg/L	90-110
	Lead	1.00	0.989	98.9	mg/L	90-110
	Manganese	1.00	0.994	99.4	mg/L	90-110
	Nickel	1.00	0.991	99.1	mg/L	90-110
	Selenium	1.00	1.01	101	mg/L	90-110
	Silver	1.00	0.945	94.5	mg/L	90-110
	Thallium	1.00	0.995	99.5	mg/L	90-110
	Vanadium	1.00	0.993	99.3	mg/L	90-110
	Zinc	1.00	0.977	97.7	mg/L	90-110
S8J1112-CCV6	Aluminum	100	99.4	99.4	mg/L	90-110
	Calcium	100	98.6	98.6	mg/L	90-110
	Iron	40.0	39.0	97.5	mg/L	90-110
	Magnesium	100	99.7	99.7	mg/L	90-110
	Potassium	100	99.3	99.3	mg/L	90-110
	Sodium	100	98.6	98.6	mg/L	90-110
S8J1112-CCV7	Antimony	1.00	0.946	94.6	mg/L	90-110
	Arsenic	1.00	0.952	95.2	mg/L	90-110
	Barium	1.00	0.966	96.6	mg/L	90-110
	Beryllium	1.00	0.972	97.2	mg/L	90-110
	Cadmium	1.00	0.966	96.6	mg/L	90-110
	Chromium	1.00	0.965	96.5	mg/L	90-110
	Cobalt	1.00	0.953	95.3	mg/L	90-110
	Copper	1.00	0.962	96.2	mg/L	90-110
	Lead	1.00	0.957	95.7	mg/L	90-110
	Manganese	1.00	0.958	95.8	mg/L	90-110
	Nickel	1.00	0.957	95.7	mg/L	90-110
	Selenium	1.00	0.976	97.6	mg/L	90-110
	Silver	1.00	0.924	92.4	mg/L	90-110

ICV = Initial Cal Verification CCV = Continuing Cal Verification IFB = Interference Check Standard B

F-VII

SEQUENCE CALIBRATION CHECKS

SW 846 6010D

Client: **Peak Environmental**
Project: **Ridgewood**
Work Order: **8100452**

Sequence: S8J1112
Instrument: ICP OES-1

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S8J1112-CCV7	Thallium	1.00	0.955	95.5	mg/L	90-110
	Vanadium	1.00	0.957	95.7	mg/L	90-110
	Zinc	1.00	0.943	94.3	mg/L	90-110
S8J1112-CCV8	Aluminum	100	96.7	96.7	mg/L	90-110
	Calcium	100	97.3	97.3	mg/L	90-110
	Iron	40.0	38.1	95.2	mg/L	90-110
	Magnesium	100	97.7	97.7	mg/L	90-110
	Potassium	100	97.8	97.8	mg/L	90-110
	Sodium	100	96.3	96.3	mg/L	90-110

ICV = Initial Cal Verification CCV = Continuing Cal Verification IFB = Interference Check Standard B

PESTICIDES

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

Pesticides - SW 846 8081B

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1047-BLK1**		

Init/Final Vol:	15 g / 10 mL	Prep Date:	10/10/2018 15:25	File ID:	7T01034.D
		Prep Batch:	B8J1047	Analyzed:	10/12/2018 18:05
		Matrix:	Soil	Sequence:	S8J1503
		Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
72-54-8	4,4'-DDD	ND	0.000787	0.00130	U
72-55-9	4,4'-DDE	ND	0.000920	0.00130	U
50-29-3	4,4'-DDT	ND	0.000624	0.00130	U
309-00-2	Aldrin	ND	0.000807	0.00130	U
319-84-6	alpha-BHC	ND	0.000503	0.00130	U
319-85-7	beta-BHC	ND	0.00128	0.00130	U
57-74-9	Chlordane	ND	0.000873	0.00130	U
319-86-8	delta-BHC	ND	0.00101	0.00130	U
60-57-1	Dieldrin	ND	0.000700	0.00130	U
959-98-8	Endosulfan I	ND	0.000900	0.00130	U
33213-65-9	Endosulfan II	ND	0.000707	0.00130	U
1031-07-8	Endosulfan sulfate	ND	0.000707	0.00130	U
72-20-8	Endrin	ND	0.000667	0.00130	U
7421-93-4	Endrin aldehyde	ND	0.000555	0.00130	U
53494-70-5	Endrin ketone	ND	0.000793	0.00130	U
58-89-9	gamma-BHC (Lindane)	ND	0.000594	0.00130	U
76-44-8	Heptachlor	ND	0.000760	0.00130	U
1024-57-3	Heptachlor Epoxide	ND	0.000813	0.00130	U
72-43-5	Methoxychlor	ND	0.000827	0.00130	U
8001-35-2	Toxaphene	ND	0.0202	0.0660	U

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181012\7T01034.D\ECD1A.CH Vial: 17
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181012\7T01034.D\ECD2B.CH
Acq On : 12 Oct 2018 18:05 Operator: sdp
Sample : B8J1047-BLK1 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 15 10:52 2018 Quant Results File: 80811012.RES

Quant Method : G:\HPCHEM\G...\80811012.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Mon Oct 15 10:51:09 2018
Response via : Initial Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	3.14	3.75	234.2E6	205.9E6	54.252	50.737
Spiked Amount 50.000	Range 43 - 129		Recovery =		108.50%	101.47%
20) S Decachlorobiphen	15.35	18.20	321.5E6	201.8E6	52.567	52.639
Spiked Amount 50.000	Range 42 - 136		Recovery =		105.13%	105.28%
Target Compounds						
Sum Chlordane (gamma)			0	0	N.D.	N.D.
Average Chlordane (gamma)					0.000	0.000
Sum Toxaphene (1)			0	0	N.D.	N.D.
Average Toxaphene (1)					0.000	0.000

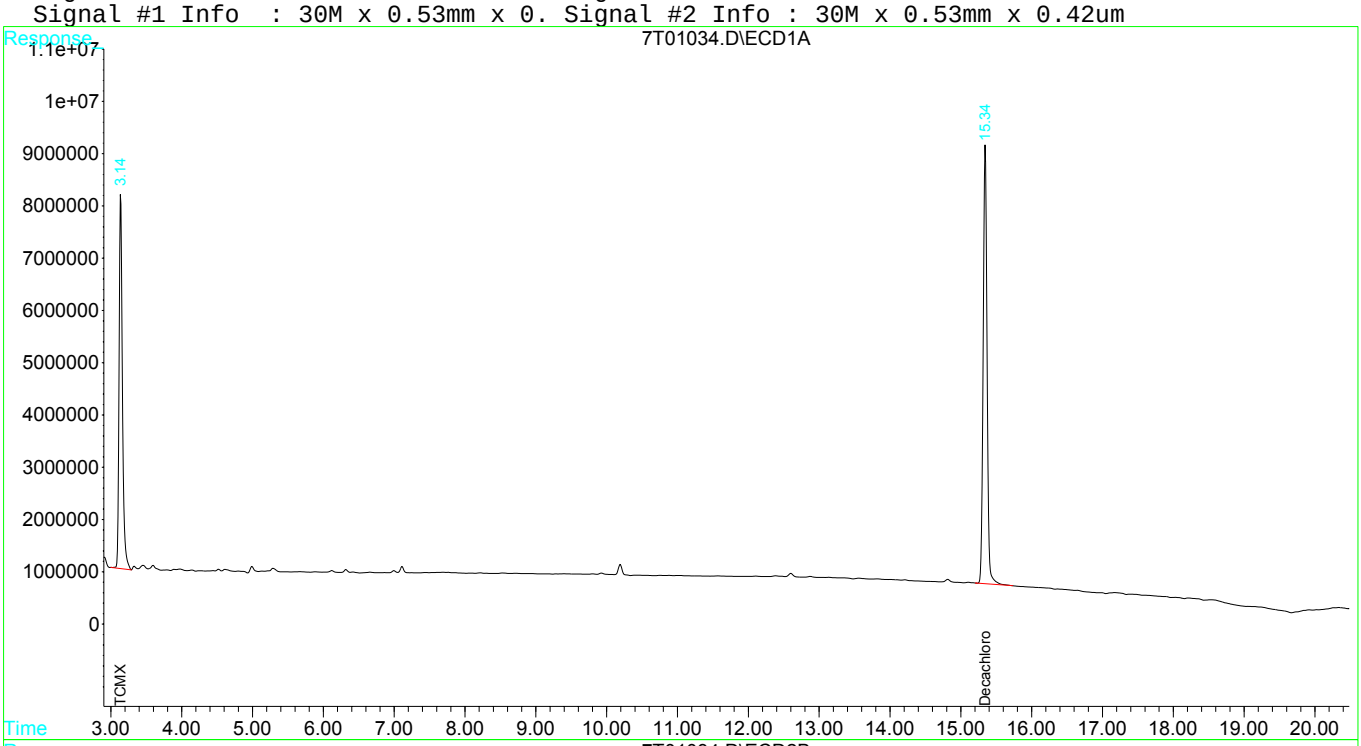
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
7T01034.D 80811012.M Mon Oct 15 11:18:17 2018 SS

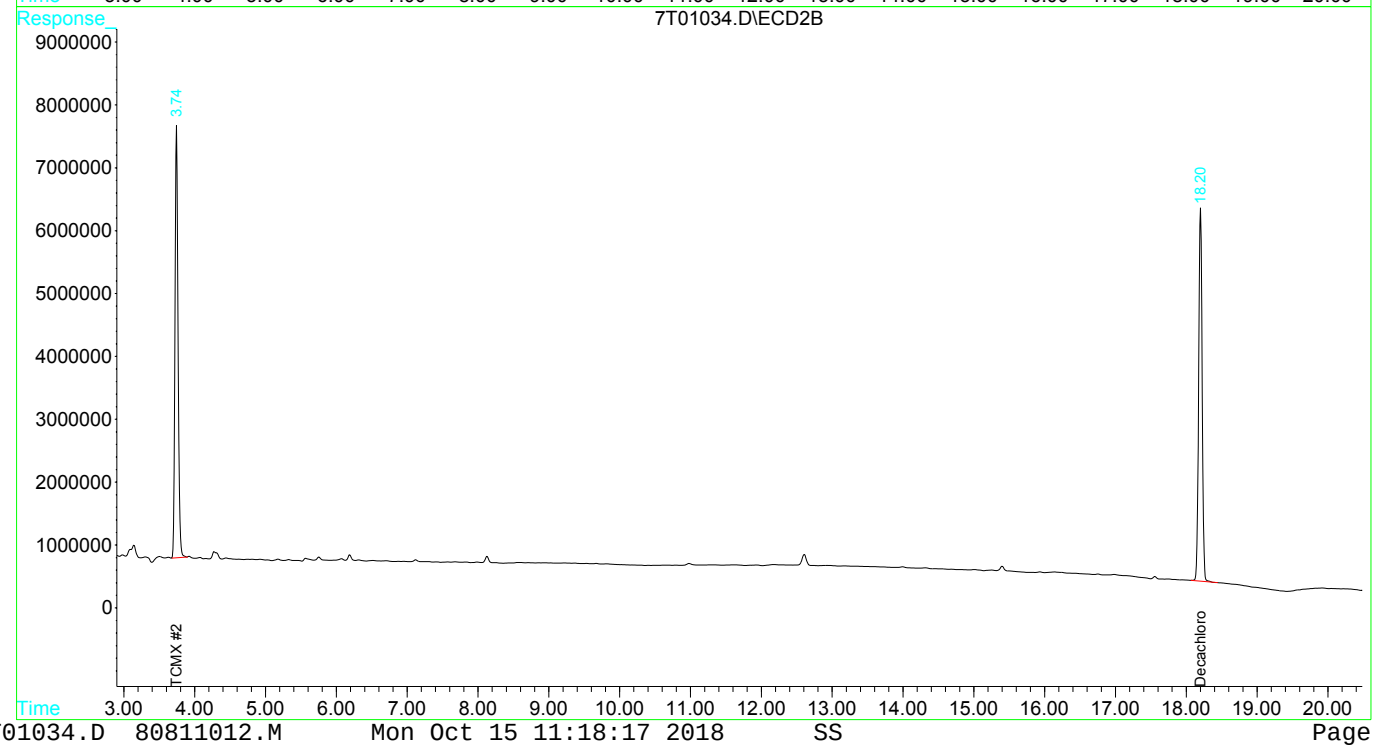
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181012\7T01034.D\ECD1A.CH Vial: 17
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181012\7T01034.D\ECD2B.CH
Acq On : 12 Oct 2018 18:05 Operator: sdp
Sample : B8J1047-BLK1 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 15 10:52 2018 Quant Results File: 80811012.RES

Quant Method : G:\HPCHEM\G...\80811012.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Mon Oct 15 10:51:09 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

Pesticides - SW 846 8081B

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 16:45	File ID:	7T01004.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1047	Analyzed:	10/11/18 16:06
Dilution:	1	Matrix:	Soil	Sequence:	S8J1202
Percent Solids:	89.91	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
72-54-8	4,4'-DDD	ND	0.000875	0.00145	U
72-55-9	4,4'-DDE	ND	0.00102	0.00145	U
50-29-3	4,4'-DDT	ND	0.000694	0.00145	U
309-00-2	Aldrin	ND	0.000898	0.00145	U
319-84-6	alpha-BHC	ND	0.000559	0.00145	U
319-85-7	beta-BHC	ND	0.00142	0.00145	U
57-74-9	Chlordane	ND	0.000971	0.00145	U
319-86-8	delta-BHC	ND	0.00112	0.00145	U
60-57-1	Dieldrin	ND	0.000779	0.00145	U
959-98-8	Endosulfan I	ND	0.00100	0.00145	U
33213-65-9	Endosulfan II	ND	0.000786	0.00145	U
1031-07-8	Endosulfan sulfate	ND	0.000786	0.00145	U
72-20-8	Endrin	ND	0.000742	0.00145	U
7421-93-4	Endrin aldehyde	ND	0.000617	0.00145	U
53494-70-5	Endrin ketone	ND	0.000882	0.00145	U
58-89-9	gamma-BHC (Lindane)	ND	0.000661	0.00145	U
76-44-8	Heptachlor	ND	0.000845	0.00145	U
1024-57-3	Heptachlor Epoxide	ND	0.000904	0.00145	U
72-43-5	Methoxychlor	ND	0.000920	0.00145	U
8001-35-2	Toxaphene	ND	0.0225	0.0734	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01004.D\ECD1A.CH Vial: 6
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01004.D\ECD2B.CH
Acq On : 11 Oct 2018 16:06 Operator: sdp
Sample : 8100452-01 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:53 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Initial Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	3.14	3.74	226.0E6	200.0E6	56.297	53.185
Spiked Amount 50.000	Range 43 - 129		Recovery =		112.59%	106.37%
20) S Decachlorobiphen	15.34	18.20	268.3E6	189.7E6	52.160m	46.656
Spiked Amount 50.000	Range 42 - 136		Recovery =		104.32%	93.31%
Target Compounds						
Sum Chlordane (gamma)			0	0	N.D.	N.D.
Average Chlordane (gamma)					0.000	0.000
Sum Toxaphene (1)			0	0	N.D.	N.D.
Average Toxaphene (1)					0.000	0.000

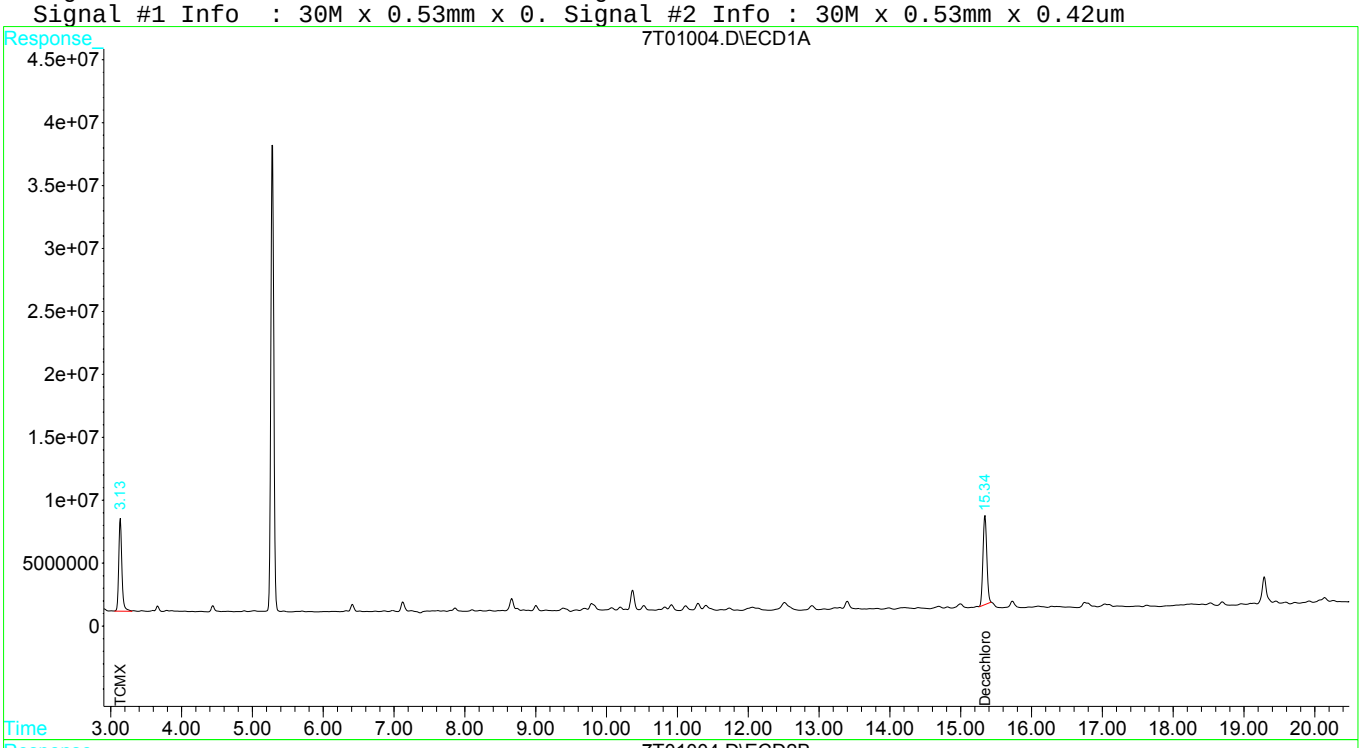
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
7T01004.D 80810806.M Fri Oct 12 10:05:58 2018 SS

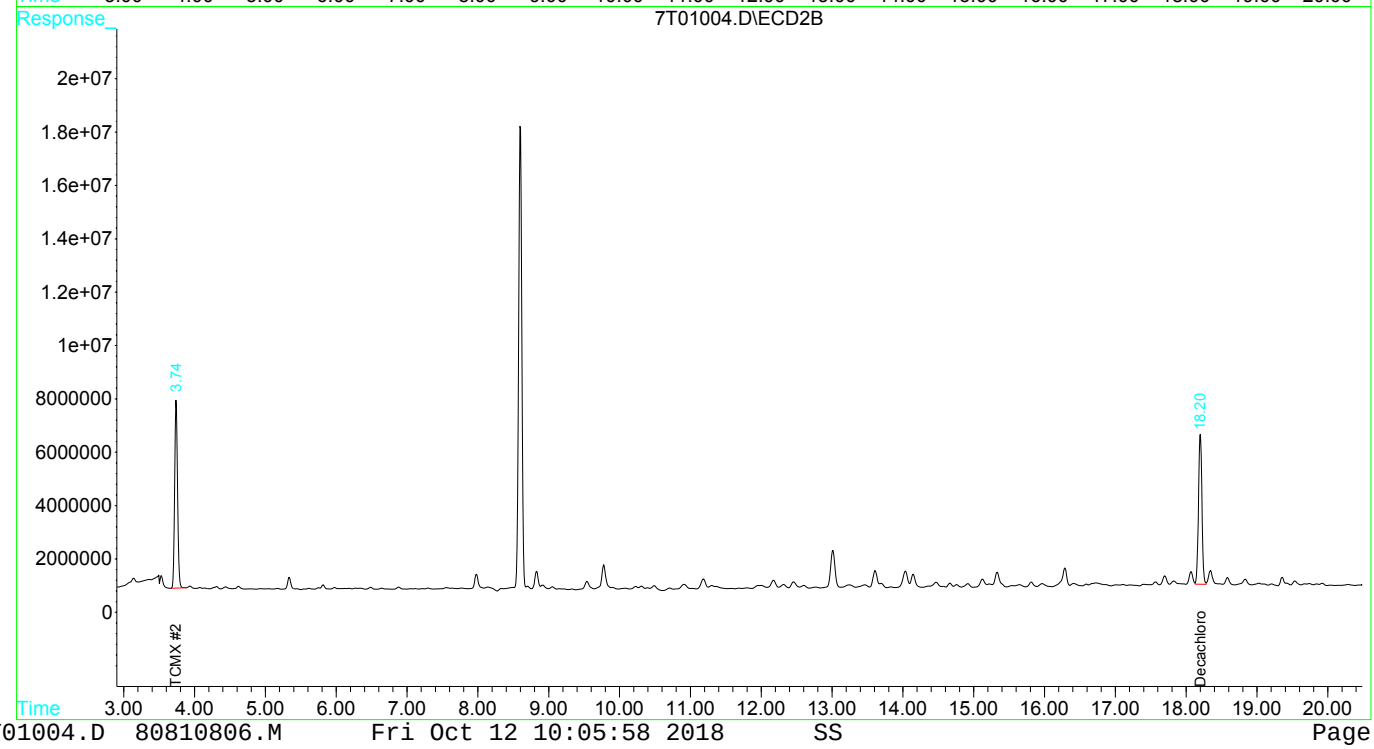
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01004.D\ECD1A.CH Vial: 6
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01004.D\ECD2B.CH
Acq On : 11 Oct 2018 16:06 Operator: sdp
Sample : 8100452-01 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:53 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

Pesticides - SW 846 8081B

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/10/18 16:45	File ID:	7T01005.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1047	Analyzed:	10/11/18 16:29
Dilution:	1	Matrix:	Soil	Sequence:	S8J1202
Percent Solids:	87.70	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
72-54-8	4,4'-DDD	ND	0.000897	0.00148	U
72-55-9	4,4'-DDE	ND	0.00105	0.00148	U
50-29-3	4,4'-DDT	ND	0.000711	0.00148	U
309-00-2	Aldrin	ND	0.000920	0.00148	U
319-84-6	alpha-BHC	ND	0.000574	0.00148	U
319-85-7	beta-BHC	ND	0.00146	0.00148	U
57-74-9	Chlordane	ND	0.000995	0.00148	U
319-86-8	delta-BHC	ND	0.00115	0.00148	U
60-57-1	Dieldrin	ND	0.000798	0.00148	U
959-98-8	Endosulfan I	ND	0.00103	0.00148	U
33213-65-9	Endosulfan II	ND	0.000806	0.00148	U
1031-07-8	Endosulfan sulfate	ND	0.000806	0.00148	U
72-20-8	Endrin	ND	0.000761	0.00148	U
7421-93-4	Endrin aldehyde	ND	0.000633	0.00148	U
53494-70-5	Endrin ketone	ND	0.000904	0.00148	U
58-89-9	gamma-BHC (Lindane)	ND	0.000677	0.00148	U
76-44-8	Heptachlor	ND	0.000867	0.00148	U
1024-57-3	Heptachlor Epoxide	ND	0.000927	0.00148	U
72-43-5	Methoxychlor	ND	0.000943	0.00148	U
8001-35-2	Toxaphene	ND	0.0230	0.0753	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01005.D\ECD1A.CH Vial: 7
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01005.D\ECD2B.CH
Acq On : 11 Oct 2018 16:29 Operator: sdp
Sample : 8100452-06 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:51 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Initial Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	3.14	3.74	224.1E6	195.4E6	55.817	51.962
Spiked Amount 50.000	Range 43 - 129		Recovery =		111.63%	103.92%
20) S Decachlorobiphen	15.34	18.20	280.5E6	187.5E6	54.540	46.111
Spiked Amount 50.000	Range 42 - 136		Recovery =		109.08%	92.22%
Target Compounds						
Sum Chlordane (gamma)			0	0	N.D.	N.D.
Average Chlordane (gamma)					0.000	0.000
Sum Toxaphene (1)			0	0	N.D.	N.D.
Average Toxaphene (1)					0.000	0.000

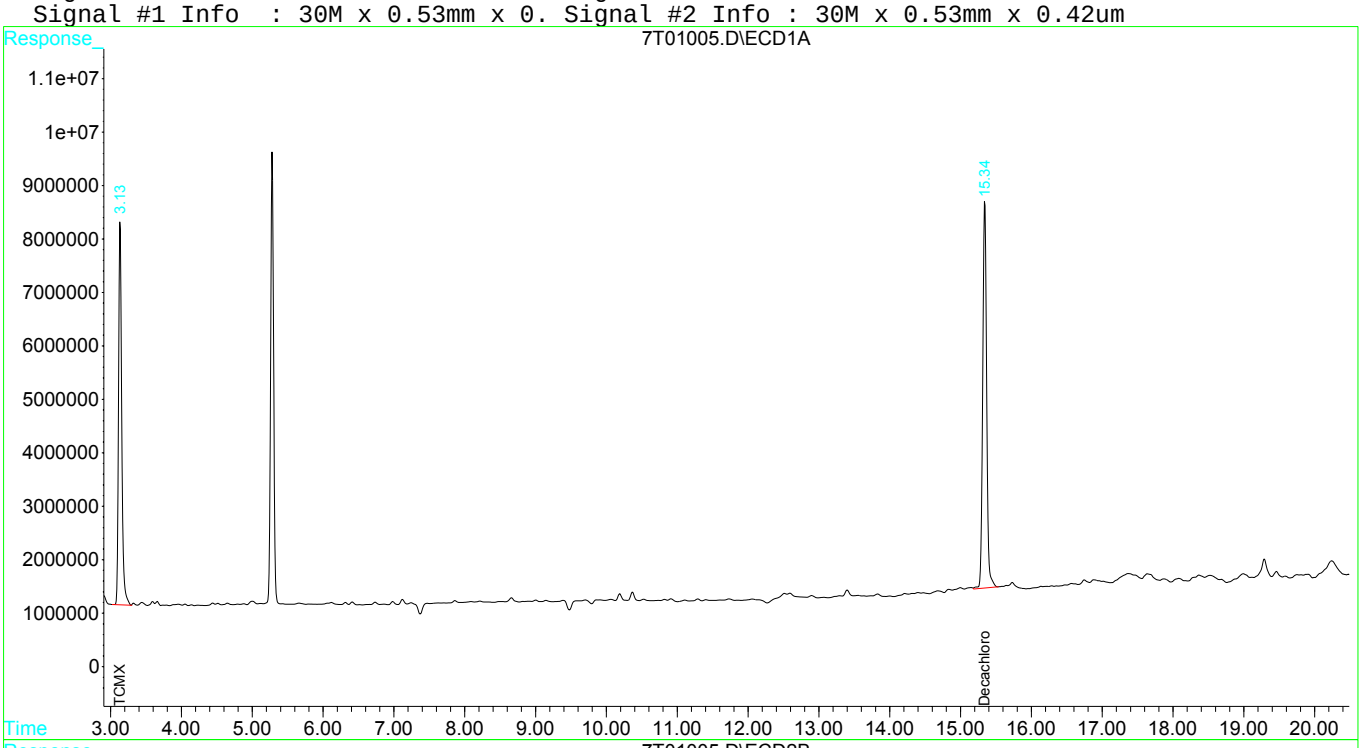
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
7T01005.D 80810806.M Fri Oct 12 10:05:59 2018 SS Page 1

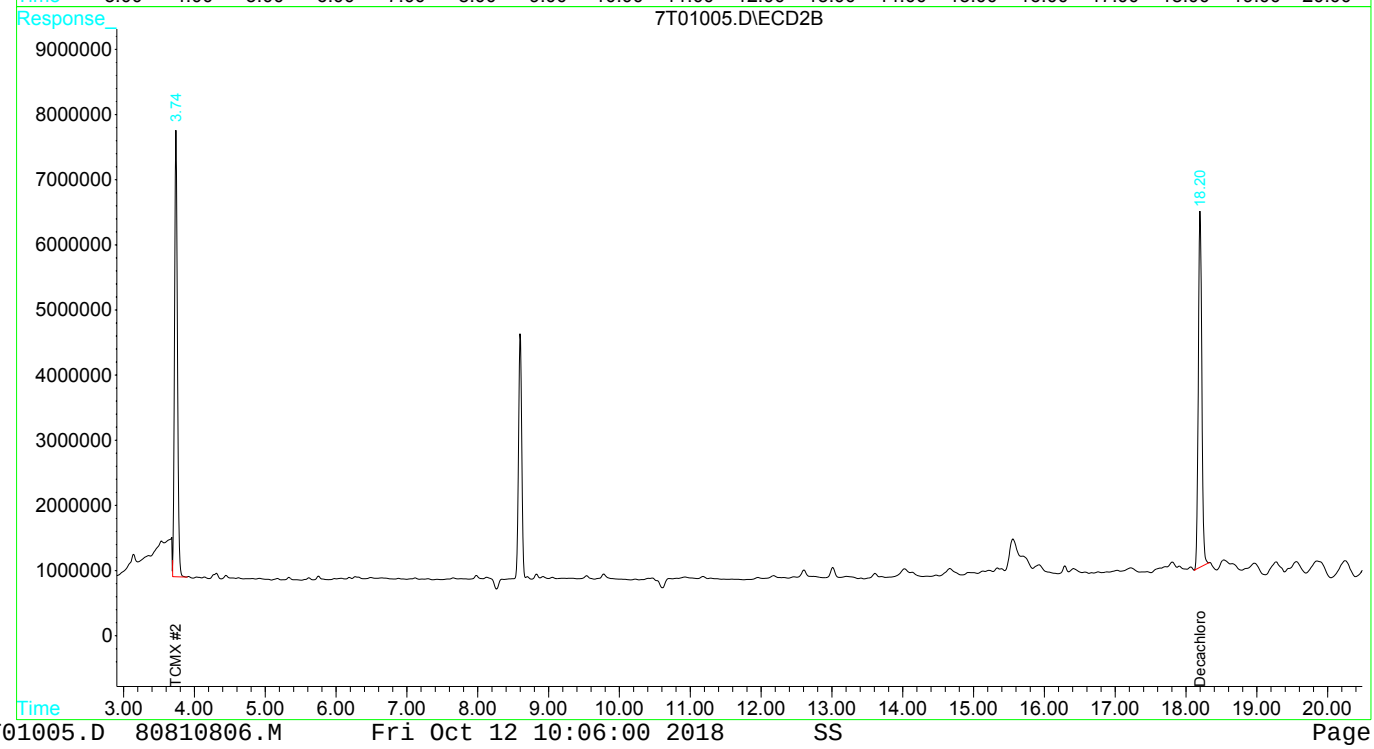
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01005.D\ECD1A.CH Vial: 7
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01005.D\ECD2B.CH
Acq On : 11 Oct 2018 16:29 Operator: sdp
Sample : 8100452-06 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:51 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

Pesticides - SW 846 8081B

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 16:45	File ID:	7T01006.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1047	Analyzed:	10/11/18 16:51
Dilution:	1	Matrix:	Soil	Sequence:	S8J1202
Percent Solids:	91.70	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
72-54-8	4,4'-DDD	ND	0.000858	0.00142	U
72-55-9	4,4'-DDE	ND	0.00100	0.00142	U
50-29-3	4,4'-DDT	ND	0.000681	0.00142	U
309-00-2	Aldrin	ND	0.000880	0.00142	U
319-84-6	alpha-BHC	ND	0.000549	0.00142	U
319-85-7	beta-BHC	ND	0.00140	0.00142	U
57-74-9	Chlordane	0.0103	0.000952	0.00142	
319-86-8	delta-BHC	ND	0.00110	0.00142	U
60-57-1	Dieldrin	ND	0.000763	0.00142	U
959-98-8	Endosulfan I	ND	0.000981	0.00142	U
33213-65-9	Endosulfan II	ND	0.000771	0.00142	U
1031-07-8	Endosulfan sulfate	ND	0.000771	0.00142	U
72-20-8	Endrin	ND	0.000727	0.00142	U
7421-93-4	Endrin aldehyde	ND	0.000605	0.00142	U
53494-70-5	Endrin ketone	ND	0.000865	0.00142	U
58-89-9	gamma-BHC (Lindane)	ND	0.000648	0.00142	U
76-44-8	Heptachlor	ND	0.000829	0.00142	U
1024-57-3	Heptachlor Epoxide	ND	0.000887	0.00142	U
72-43-5	Methoxychlor	ND	0.000902	0.00142	U
8001-35-2	Toxaphene	ND	0.0220	0.0720	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01006.D\ECD1A.CH Vial: 8
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01006.D\ECD2B.CH
Acq On : 11 Oct 2018 16:51 Operator: sdp
Sample : 8100452-12 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:58 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Initial Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	3.14	3.75	239.5E6	213.7E6	59.656	56.836
Spiked Amount 50.000	Range 43 - 129		Recovery =		119.31%	113.67%
20) S Decachlorobiphen	15.34	18.20	281.7E6	191.5E6	54.755m	47.076
Spiked Amount 50.000	Range 42 - 136		Recovery =		109.51%	94.15%
Target Compounds						
21) L1 Chlordane (gamma	6.98	8.70	30174757	23287349	6.157	5.468
22) L1 Chlordane (alpha	7.24f	9.06	38651343	17308403	8.014m	4.082 #
Sum Chlordane (gamma)			68826100	40595752	14.171	9.550
Average Chlordane (gamma)					7.086	4.775
Sum Toxaphene (1)			0	0	N.D.	N.D.
Average Toxaphene (1)					0.000	0.000

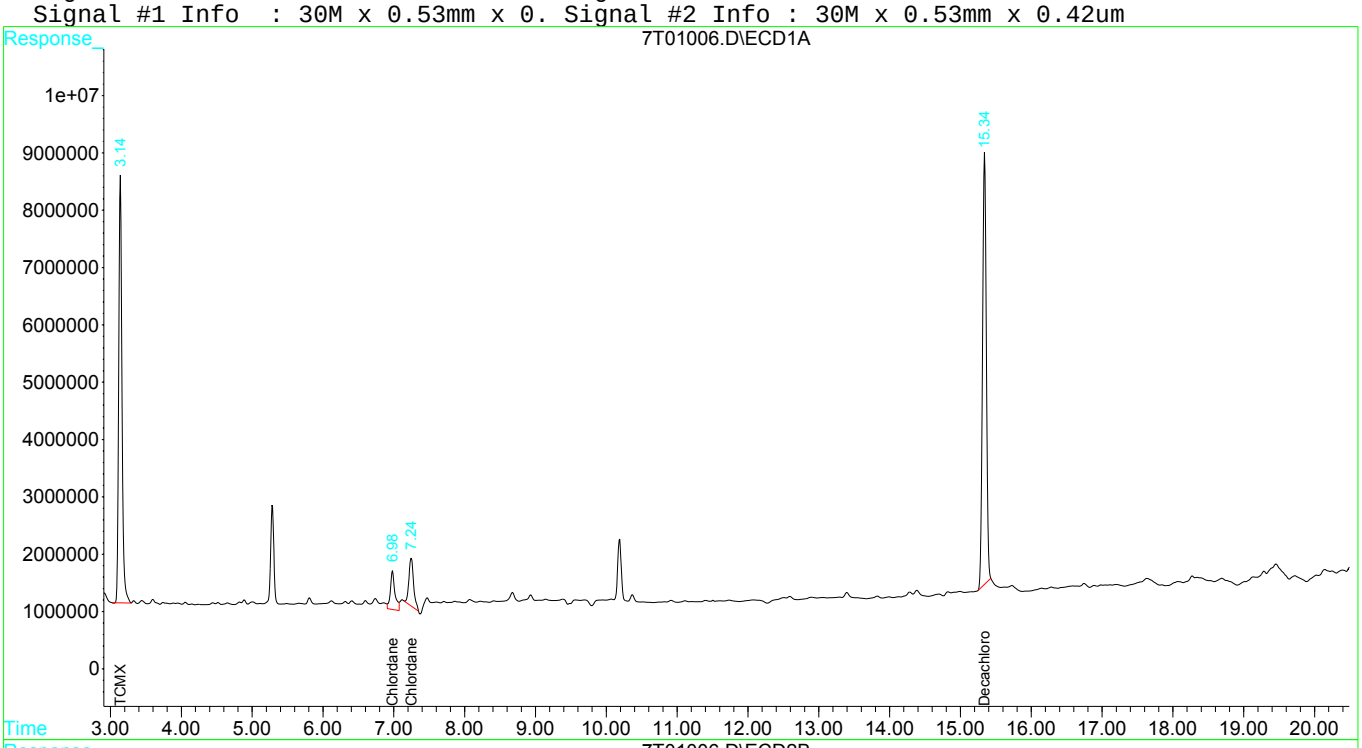
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
7T01006.D 80810806.M Fri Oct 12 10:06:01 2018 SS

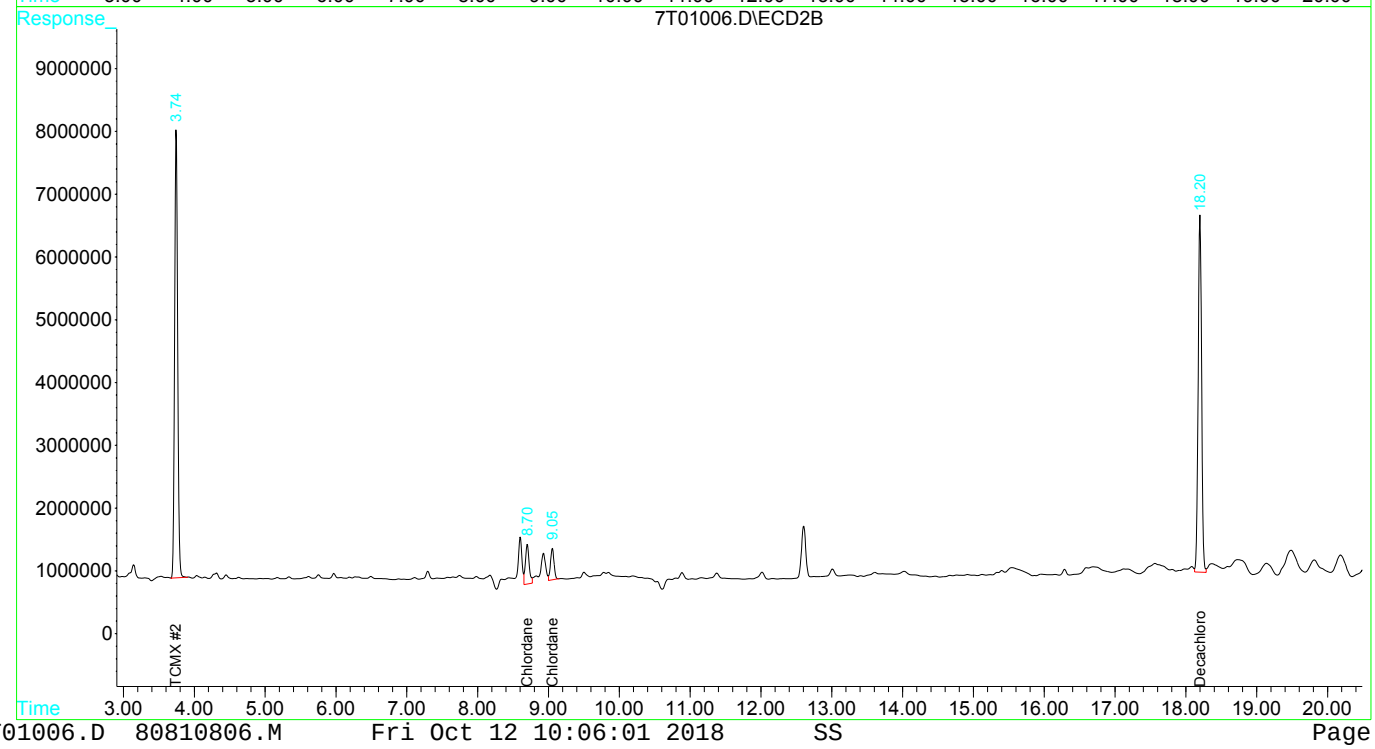
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01006.D\ECD1A.CH Vial: 8
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01006.D\ECD2B.CH
Acq On : 11 Oct 2018 16:51 Operator: sdp
Sample : 8100452-12 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:58 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





ANALYSIS DATA SHEET

Pesticides - SW 846 8081B

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 16:45	File ID:	7T01007.D
Init/Final Vol:	15 g / 10 mL	Prep Batch:	B8J1047	Analyzed:	10/11/18 17:14
Dilution:	1	Matrix:	Soil	Sequence:	S8J1202
Percent Solids:	92.94	Prep Method:	Microwave Extraction		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
72-54-8	4,4'-DDD	ND	0.000847	0.00140	U
72-55-9	4,4'-DDE	ND	0.000990	0.00140	U
50-29-3	4,4'-DDT [2C]	0.00928	0.000586	0.00140	
309-00-2	Aldrin	ND	0.000868	0.00140	U
319-84-6	alpha-BHC	ND	0.000541	0.00140	U
319-85-7	beta-BHC	ND	0.00138	0.00140	U
57-74-9	Chlordane	0.0136	0.000939	0.00140	
319-86-8	delta-BHC	ND	0.00108	0.00140	U
60-57-1	Dieldrin	ND	0.000753	0.00140	U
959-98-8	Endosulfan I	ND	0.000968	0.00140	U
33213-65-9	Endosulfan II	ND	0.000761	0.00140	U
1031-07-8	Endosulfan sulfate	ND	0.000761	0.00140	U
72-20-8	Endrin	ND	0.000718	0.00140	U
7421-93-4	Endrin aldehyde	ND	0.000597	0.00140	U
53494-70-5	Endrin ketone	ND	0.000853	0.00140	U
58-89-9	gamma-BHC (Lindane)	ND	0.000639	0.00140	U
76-44-8	Heptachlor	ND	0.000818	0.00140	U
1024-57-3	Heptachlor Epoxide	ND	0.000875	0.00140	U
72-43-5	Methoxychlor	ND	0.000890	0.00140	U
8001-35-2	Toxaphene	ND	0.0217	0.0710	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01007.D\ECD1A.CH Vial: 9
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01007.D\ECD2B.CH
Acq On : 11 Oct 2018 17:14 Operator: sdp
Sample : 8100452-14 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:57 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Initial Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	3.14	3.75	238.7E6	221.1E6	59.464m	58.818
Spiked Amount 50.000	Range 43 - 129		Recovery =		118.93%	117.64%
20) S Decachlorobiphen	15.34	18.20	291.8E6	203.7E6	56.724m	50.087
Spiked Amount 50.000	Range 42 - 136		Recovery =		113.45%	100.17%
Target Compounds						
15) M 4,4'-DDT	9.48	12.02	30161373	38863152	7.794	12.942m#
21) L1 Chlordane (gamma	6.98	8.71	39449677	27879066	8.050	6.546
22) L1 Chlordane (alpha	7.26	9.06	52527887	30940546	10.891m	7.297 #
Sum Chlordane (gamma)			91977564	58819613	18.941	13.843
Average Chlordane (gamma)					9.471	6.921
Sum Toxaphene (1)			0	0	N.D.	N.D.
Average Toxaphene (1)					0.000	0.000

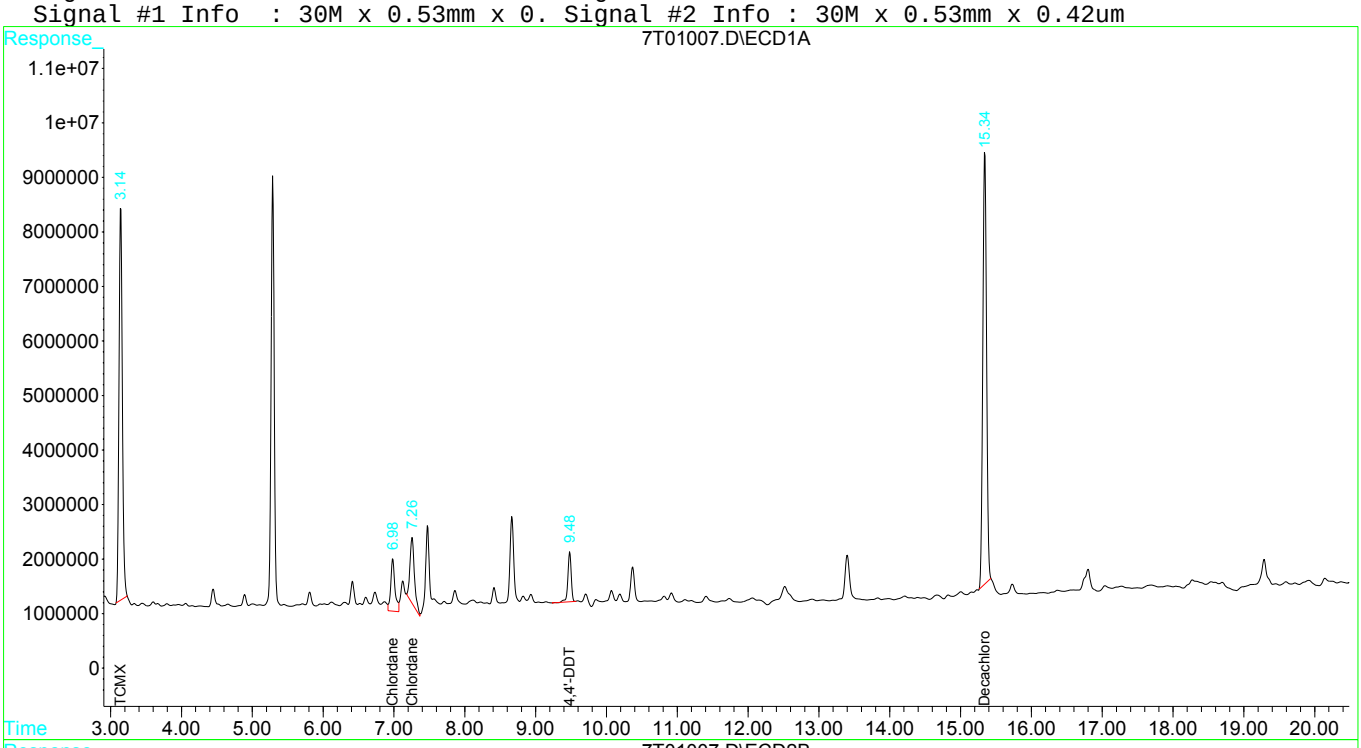
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
7T01007.D 80810806.M Fri Oct 12 10:06:03 2018 SS Page 1

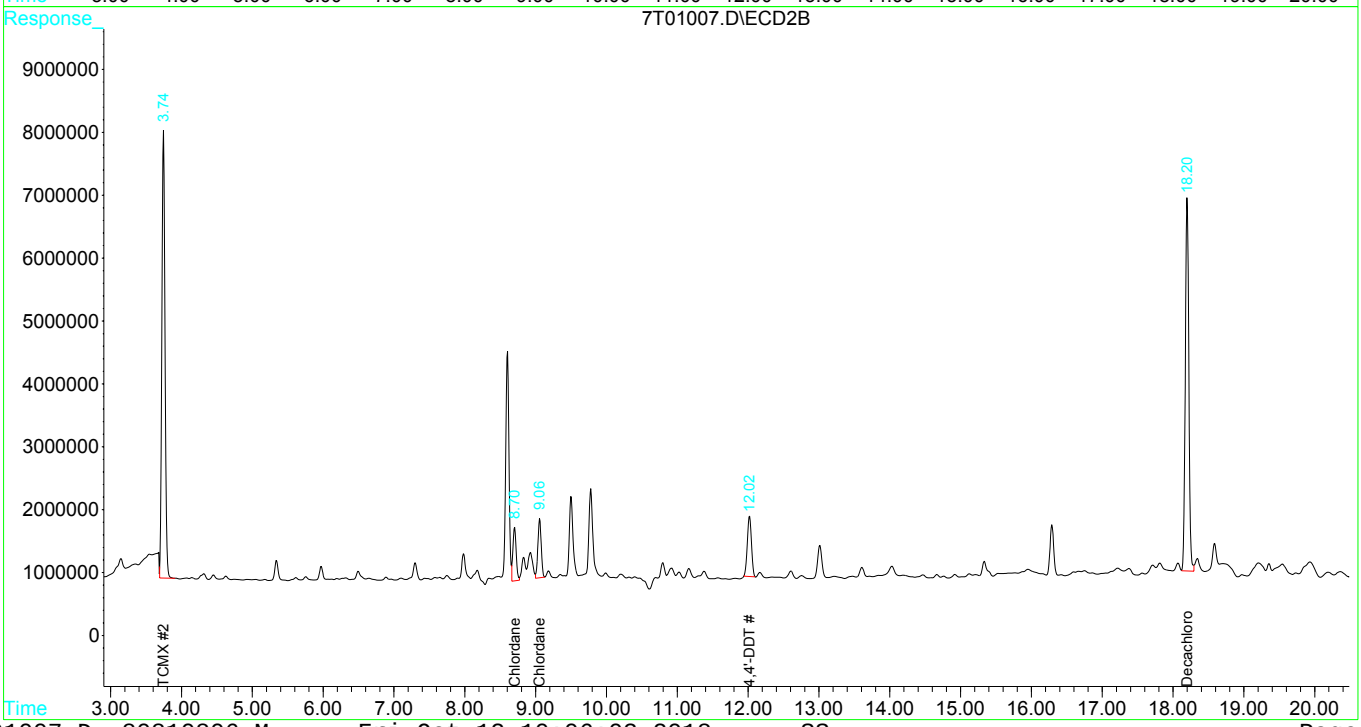
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01007.D\ECD1A.CH Vial: 9
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01007.D\ECD2B.CH
Acq On : 11 Oct 2018 17:14 Operator: sdp
Sample : 8100452-14 Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 17:57 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 15:28:30 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





SURROGATE RECOVERIES

Analysis Class: PESTICIDES

Matrix: Soil **Method:** SW 846 8081B

Pesticides

Lab Number	File ID	TCMX	DCB	TCMX[2C]	DCB[2C]
8100452-01	7T01004.D	113	104	106	93.3
8100452-06	7T01005.D	112	109	104	92.2
8100452-12	7T01006.D	119	110	114	94.2
8100452-14	7T01007.D	119	113	118	100
B8J1047-BLK1	7T01034.D	108	105	101	105
B8J1047-BS1	7T01035.D	103	102	96.3	102
B8J1047-MS1	7T01018.D	97.6	112	104	95.2
B8J1047-MSD1	7T01019.D	97.2	115	105	89.4

Surrogate Limits		Lo Limit	Hi Limit
TCMX	Tetrachloro-m-xylene	41.8	136
DCB	Decachlorobiphenyl	43.1	129
TCMX[2C]	Tetrachloro-m-xylene [2C]	41.8	136
DCB[2C]	Decachlorobiphenyl [2C]	43.1	129

F-II

* - Outside of QC Limits

Batch B8J1047 **Method: SW 846 8081B** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1047-BS1		4,4'-DDD	0.0386	mg/kg wet	0.0333		116	91.1-141		
B8J1047-BS1		4,4'-DDE	0.0375	mg/kg wet	0.0333		113	98.2-139		
B8J1047-BS1		4,4'-DDT	0.0390	mg/kg wet	0.0333		117	23.3-144		
B8J1047-BS1		Aldrin	0.0384	mg/kg wet	0.0333		115	75-130		
B8J1047-BS1		alpha-BHC	0.0387	mg/kg wet	0.0333		116	74.3-132		
B8J1047-BS1		beta-BHC	0.0386	mg/kg wet	0.0333		116	76.9-128		
B8J1047-BS1		delta-BHC	0.0395	mg/kg wet	0.0333		118	61-155		
B8J1047-BS1		Dieldrin	0.0385	mg/kg wet	0.0333		115	74.9-130		
B8J1047-BS1		Endosulfan I	0.0375	mg/kg wet	0.0333		113	60.8-126		
B8J1047-BS1		Endosulfan II	0.0365	mg/kg wet	0.0333		110	72.7-125		
B8J1047-BS1		Endosulfan sulfate	0.0340	mg/kg wet	0.0333		102	63.7-128		
B8J1047-BS1		Endrin	0.0392	mg/kg wet	0.0333		118	77.7-141		
B8J1047-BS1		Endrin aldehyde	0.0329	mg/kg wet	0.0333		98.6	57.7-113		
B8J1047-BS1		Endrin ketone	0.0349	mg/kg wet	0.0333		105	64.1-133		
B8J1047-BS1		gamma-BHC (Lindane)	0.0386	mg/kg wet	0.0333		116	74-133		
B8J1047-BS1		Heptachlor	0.0376	mg/kg wet	0.0333		113	74.4-132		
B8J1047-BS1		Heptachlor Epoxide	0.0358	mg/kg wet	0.0333		108	75.2-127		
B8J1047-BS1		Methoxychlor	0.0362	mg/kg wet	0.0333		109	37.4-147		

Batch B8J1047 (cont.) **Method: SW 846 8081B** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1047-MS1	8100408-01	4,4'-DDD	0.0542	mg/kg dry	0.0406	ND	134	56.4-168		
B8J1047-MS1	8100408-01	4,4'-DDE	0.0454	mg/kg dry	0.0406	ND	112	67.4-153		
B8J1047-MS1	8100408-01	4,4'-DDT	0.0256	mg/kg dry	0.0406	ND	63.1	15-117		
B8J1047-MS1	8100408-01	Aldrin	0.0485	mg/kg dry	0.0406	ND	119	49.4-130		
B8J1047-MS1	8100408-01	alpha-BHC	0.0597	mg/kg dry	0.0406	ND	147*	48.9-139		
B8J1047-MS1	8100408-01	beta-BHC	0.0464	mg/kg dry	0.0406	ND	114	43.1-140		
B8J1047-MS1	8100408-01	delta-BHC	0.0575	mg/kg dry	0.0406	ND	142	36.1-164		
B8J1047-MS1	8100408-01	Dieldrin	0.0461	mg/kg dry	0.0406	ND	114	55.1-122		
B8J1047-MS1	8100408-01	Endosulfan I	0.0441	mg/kg dry	0.0406	ND	109	42.1-110		
B8J1047-MS1	8100408-01	Endosulfan II	0.0411	mg/kg dry	0.0406	ND	101	46.9-119		
B8J1047-MS1	8100408-01	Endosulfan sulfate	0.0397	mg/kg dry	0.0406	ND	97.9	24.6-139		
B8J1047-MS1	8100408-01	Endrin	0.0546	mg/kg dry	0.0406	ND	135	40.4-139		
B8J1047-MS1	8100408-01	Endrin aldehyde	0.0285	mg/kg dry	0.0406	ND	70.2	36.3-126		
B8J1047-MS1	8100408-01	Endrin ketone	0.0428	mg/kg dry	0.0406	ND	105	15-149		
B8J1047-MS1	8100408-01	gamma-BHC (Lindane)	0.0675	mg/kg dry	0.0406	ND	166*	32.3-140		
B8J1047-MS1	8100408-01	Heptachlor	0.0428	mg/kg dry	0.0406	ND	105	15-147		
B8J1047-MS1	8100408-01	Heptachlor Epoxide	0.0469	mg/kg dry	0.0406	ND	116	49-121		
B8J1047-MS1	8100408-01	Methoxychlor	0.0378	mg/kg dry	0.0406	ND	93.0	15-122		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1047 (cont.) **Method: SW 846 8081B** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1047-MSD1	8100408-01	4,4'-DDD	0.0549	mg/kg dry	0.0406	ND	135	56.4-168	1.22	30
B8J1047-MSD1	8100408-01	4,4'-DDE	0.0459	mg/kg dry	0.0406	ND	113	67.4-153	1.05	30
B8J1047-MSD1	8100408-01	4,4'-DDT	0.0253	mg/kg dry	0.0406	ND	62.4	15-117	1.21	30
B8J1047-MSD1	8100408-01	Aldrin	0.0486	mg/kg dry	0.0406	ND	120	49.4-130	0.184	30
B8J1047-MSD1	8100408-01	alpha-BHC	0.0599	mg/kg dry	0.0406	ND	148*	48.9-139	0.448	30
B8J1047-MSD1	8100408-01	beta-BHC	0.0526	mg/kg dry	0.0406	ND	130	43.1-140	12.5	30
B8J1047-MSD1	8100408-01	delta-BHC	0.0546	mg/kg dry	0.0406	ND	135	36.1-164	5.09	30
B8J1047-MSD1	8100408-01	Dieldrin	0.0465	mg/kg dry	0.0406	ND	114	55.1-122	0.754	30
B8J1047-MSD1	8100408-01	Endosulfan I	0.0445	mg/kg dry	0.0406	ND	110	42.1-110	1.04	30
B8J1047-MSD1	8100408-01	Endosulfan II	0.0413	mg/kg dry	0.0406	ND	102	46.9-119	0.394	30
B8J1047-MSD1	8100408-01	Endosulfan sulfate	0.0398	mg/kg dry	0.0406	ND	98.0	24.6-139	0.0613	30
B8J1047-MSD1	8100408-01	Endrin	0.0549	mg/kg dry	0.0406	ND	135	40.4-139	0.475	30
B8J1047-MSD1	8100408-01	Endrin aldehyde	0.0287	mg/kg dry	0.0406	ND	70.7	36.3-126	0.681	30
B8J1047-MSD1	8100408-01	Endrin ketone	0.0424	mg/kg dry	0.0406	ND	104	15-149	0.896	30
B8J1047-MSD1	8100408-01	gamma-BHC (Lindane)	0.0487	mg/kg dry	0.0406	ND	120	32.3-140	32.4*	30
B8J1047-MSD1	8100408-01	Heptachlor	0.0549	mg/kg dry	0.0406	ND	135	15-147	24.7	30
B8J1047-MSD1	8100408-01	Heptachlor Epoxide	0.0471	mg/kg dry	0.0406	ND	116	49-121	0.501	30
B8J1047-MSD1	8100408-01	Methoxychlor	0.0377	mg/kg dry	0.0406	ND	92.8	15-122	0.258	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

METHOD BLANK SUMMARY

Batch ID: **B8J1047**

Lab Number	Sample Id	Extraction Date	Analysis Date
B8J1047-BLK1	BLK1	10/10/2018	10/12/2018 18:05
B8J1047-BS1	BS1	10/10/2018	10/12/2018 18:27
B8J1047-MS1	MS1	10/10/2018	10/11/2018 21:24
B8J1047-MSD1	MSD1	10/10/2018	10/11/2018 21:47
8100452-01	NTP-1A	10/10/2018	10/11/2018 16:06
8100452-06	NTP-6	10/10/2018	10/11/2018 16:29
8100452-12	STP-4B	10/10/2018	10/11/2018 16:51
8100452-14	STP-7	10/10/2018	10/11/2018 17:14

SURROGATE RT DRIFT REPORT

Analysis Class: PESTICIDES

Sequence : S8J1202

		TCMX			DCB			TCMX[2C]			DCB[2C]		
Lab Number	File ID	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift
8100452-01	7T01004.D	3.14	3.14	0.00	15.34	15.35	-0.01	3.74	3.74	0.00	18.2	18.2	0.00
8100452-06	7T01005.D	3.14	3.14	0.00	15.34	15.35	-0.01	3.74	3.74	0.00	18.2	18.2	0.00
8100452-12	7T01006.D	3.14	3.14	0.00	15.34	15.35	-0.01	3.75	3.74	0.01	18.2	18.2	0.00
8100452-14	7T01007.D	3.14	3.14	0.00	15.34	15.35	-0.01	3.75	3.74	0.01	18.2	18.2	0.00
B8J1047-MS1	7T01018.D	3.14	3.14	0.00	15.34	15.35	-0.01	3.74	3.74	0.00	18.2	18.2	0.00
B8J1047-MSD1	7T01019.D	3.15	3.14	0.01	15.34	15.35	-0.01	3.75	3.74	0.01	18.2	18.2	0.00

Sequence : S8J1503

		TCMX			DCB			TCMX[2C]			DCB[2C]		
Lab Number	File ID	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift
B8J1047-BLK1	7T01034.D	3.14	3.14	0.00	15.35	15.34	0.01	3.75	3.74	0.01	18.2	18.2	0.00
B8J1047-BS1	7T01035.D	3.14	3.14	0.00	15.34	15.34	0.00	3.75	3.74	0.01	18.2	18.2	0.00

Surrogate		Limit
TCMX	Tetrachloro-m-xylene	0.10
DCB	Decachlorobiphenyl	0.10
TCMX[2C]	Tetrachloro-m-xylene [2C]	0.10
DCB[2C]	Decachlorobiphenyl [2C]	0.10

DISS = Dissolved Analysis

F-V

Response Factor Report GCECD-7

Method : G:\HPCHEM\GCECD7\METHODS\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Mon Aug 06 17:06:26 2018

Calibration Files
2 =7T00005.D 5 =7T00006.D 10 =7T00007.D
25 =7T00008.D 50 =7T00009.D 100 =7T00010.D

		Compound	2	5	10	25	50	100	Avg		%RSD
1)	S	TCMX	4.045	4.005	4.067	4.008	3.906	4.055	4.014	E6	1.46
2)		alpha-BHC	4.499	4.881	5.144	5.638	5.948	6.630	5.456	E6	14.19
3)	M	gamma-BHC (Lindane)	4.257	4.697	4.878	5.214	5.422	6.026	5.082	E6	12.11
4)	M	Heptachlor	4.914	5.123	5.058	5.167	5.321	5.895	5.246	E6	6.57
5)		beta-BHC	2.561	2.548	2.459	2.387	2.361	2.530	2.474	E6	3.46
6)		delta-BHC	4.622	4.691	4.951	5.178	5.496	6.097	5.172	E6	10.74
7)	M	Aldrin	4.374	4.626	4.630	4.865	5.092	5.679	4.877	E6	9.47
8)		Heptachlor epoxide	4.902	4.713	4.618	4.629	4.714	5.189	4.794	E6	4.56
9)		Endosulfan I	4.345	4.478	4.418	4.455	4.547	5.008	4.542	E6	5.24
10)		4,4'-DDE	3.997	4.195	4.191	4.381	4.543	5.119	4.404	E6	9.00
11)	M	Dieldrin	4.308	4.479	4.524	4.678	4.852	5.417	4.710	E6	8.34
12)	M	Endrin	3.818	3.959	3.952	4.060	4.207	4.727	4.121	E6	7.86
13)		4,4'-DDD	3.146	3.332	3.343	3.488	3.641	4.129	3.513	E6	9.80
14)		Endosulfan II	4.378	4.408	4.517	4.426	4.437	4.772	4.490	E6	3.25
15)	M	4,4'-DDT	3.880	3.724	3.692	3.731	3.851	4.340	3.870	E6	6.26
16)		Endrin aldehyde	3.629	3.952	4.116	4.121	4.097	3.960	3.979	E6	4.72
17)		Endosulfan sulfate	4.673	4.260	4.349	4.187	4.173	4.311	4.325	E6	4.24
18)		Methoxychlor	2.123	2.082	2.003	1.985	1.960	2.050	2.034	E6	3.07
19)		Endrin ketone	4.904	4.877	5.092	5.060	5.044	5.236	5.035	E6	2.61
20)	S	Decachlorobiphenyl	6.135	5.425	5.055	4.807	4.644	4.797	5.144	E6	10.83
21)	L1	Chlordane (gamma)	4.778	4.801	4.718	4.768	4.902	5.437	4.901	E6	5.50
22)	L1	Chlordane (alpha)	4.615	4.799	4.704	4.718	4.805	5.295	4.823	E6	5.01
23)	L2	Toxaphene (1)							0.000	0	-1.00

Signal #2 Calibration Files
2 =7T00005.D 5 =7T00006.D 10 =7T00007.D
25 =7T00008.D 50 =7T00009.D 100 =7T00010.D

		Compound	2	5	10	25	50	100	Avg		%RSD
1)	S	TCMX	4.327	3.849	3.718	3.614	3.466	3.585	3.760	E6	8.15
2)		alpha-BHC	4.264	4.551	4.790	5.235	5.445	6.094	5.063	E6	13.14
3)	M	gamma-BHC (Lindane)	4.229	4.354	4.531	4.781	4.967	5.500	4.727	E6	9.85
4)	M	Heptachlor	5.085	4.763	4.624	4.650	4.772	5.317	4.868	E6	5.63
5)		beta-BHC	2.616	2.438	2.312	2.219	2.175	2.274	2.339	E6	6.96
6)		delta-BHC	4.260	4.200	4.452	4.691	4.951	5.529	4.681	E6	10.70
7)	M	Aldrin	4.188	4.263	4.235	4.352	4.497	5.011	4.424	E6	6.95
8)		Heptachlor epoxide	4.124	4.189	4.141	4.134	4.183	4.607	4.230	E6	4.41
9)		Endosulfan I	4.007	4.015	3.890	3.844	3.865	4.217	3.973	E6	3.51
10)		4,4'-DDE	3.791	3.736	3.669	3.745	3.854	4.328	3.854	E6	6.24
11)	M	Dieldrin	3.975	4.096	4.052	4.086	4.163	4.646	4.170	E6	5.79
12)	M	Endrin	3.641	3.587	3.497	3.504	3.619	4.058	3.651	E6	5.70
13)		4,4'-DDD	3.560	3.241	3.103	3.117	3.182	3.542	3.291	E6	6.31
14)		Endosulfan II	4.357	4.116	4.085	3.890	3.838	4.052	4.056	E6	4.54
15)	M	4,4'-DDT	3.304	2.799	2.715	2.843	2.963	3.395	3.003	E6	9.37
16)		Endrin aldehyde	3.975	3.582	3.628	3.576	3.471	3.312	3.591	E6	6.12
17)		Endosulfan sulfate	4.236	3.935	3.913	3.734	3.683	3.759	3.877	E6	5.23
18)		Methoxychlor	1.892	1.722	1.677	1.650	1.636	1.726	1.717	E6	5.42
19)		Endrin ketone	4.161	4.065	4.206	4.127	4.158	4.290	4.168	E6	1.82
20)	S	Decachlorobiphenyl	4.556	4.448	4.139	3.826	3.657	3.776	4.067	E6	9.21
21)	L1	Chlordane (gamma)	4.141	4.238	4.156	4.142	4.215	4.660	4.259	E6	4.71
22)	L1	Chlordane (alpha)	4.404	4.243	4.163	4.079	4.093	4.462	4.240	E6	3.80
23)	L2	Toxaphene (1)							0.000	0	-1.00

(#) = Out of Range

Compound List Report GCECD-7

Method : G:\HPCHEM\GCECD7\METHODS\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Mon Aug 06 17:06:26 2018
Response via : Initial Calibration
Total Cpnds : 47

PK#	Type	Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX	3.15	1.000	A	A	B
2		alpha-BHC	3.83	1.000	A	A	B
3	M	gamma-BHC (Lindane)	4.28	1.000	A	A	B
4	M	Heptachlor	5.05	1.000	A	A	B
5		beta-BHC	4.41	1.000	A	A	B
6		delta-BHC	4.69	1.000	A	A	B
7	M	Aldrin	5.58	1.000	A	A	B
8		Heptachlor epoxide	6.76	1.000	A	A	B
9		Endosulfan I	7.58	1.000	A	A	B
10		4,4'-DDE	7.51	1.000	A	A	B
11	M	Dieldrin	8.10	1.000	A	A	B
12	M	Endrin	8.62	1.000	A	A	B
13		4,4'-DDD	8.86	1.000	A	A	B
14		Endosulfan II	9.13	1.000	A	A	B
15	M	4,4'-DDT	9.52	1.000	A	A	B
16		Endrin aldehyde	10.15	1.000	A	A	B
17		Endosulfan sulfate	11.33	1.000	A	A	B
18		Methoxychlor	10.83	1.000	A	A	B
19		Endrin ketone	12.16	1.000	A	A	B
20	S	Decachlorobiphenyl	15.38	1.000	A	A	B
21	L1	Chlordane (gamma)	7.01	1.000	A	A	B
22	L1	Chlordane (alpha)	7.29	1.000	A	A	B
23	L2	Toxaphene (1)	11.16	1.000	A	A	R
24		Signal #2	35.00	1.000	A	A	B
25	S	TCMX #2	3.78	1.000	A	A	B
26		alpha-BHC #2	4.77	1.000	A	A	B
27	M	gamma-BHC (Lindane) #2	5.44	1.000	A	A	B
28	M	Heptachlor #2	6.34	1.000	A	A	B
29		beta-BHC #2	5.58	1.000	A	A	B
30		delta-BHC #2	6.19	1.000	A	A	B
31	M	Aldrin #2	7.04	1.000	A	A	B
32		Heptachlor epoxide #2	8.35	1.000	A	A	B
33		Endosulfan I #2	9.28	1.000	A	A	B
34		4,4'-DDE #2	9.60	1.000	A	A	B
35	M	Dieldrin #2	9.96	1.000	A	A	B
36	M	Endrin #2	10.75	1.000	A	A	B
37		4,4'-DDD #2	11.15	1.000	A	A	B
38		Endosulfan II #2	11.37	1.000	A	A	B
39	M	4,4'-DDT #2	12.16	1.000	A	A	B
40		Endrin aldehyde #2	12.50	1.000	A	A	B
41		Endosulfan sulfate #2	13.39	1.000	A	A	B
42		Methoxychlor #2	14.42	1.000	A	A	B
43		Endrin ketone #2	14.94	1.000	A	A	B
44	S	Decachlorobiphenyl #2	18.31	1.000	A	A	B
45	L1	Chlordane (gamma) #2	8.80	1.000	A	A	B
46	L1	Chlordane (alpha) #2	9.15	1.000	A	A	B
47	L2	Toxaphene (1) #2	14.65	1.000	A	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

80810806.M Wed Aug 08 15:41:43 2018 SS

Response Factor Report GCECD-7

Method : G:\HPCHEM\GCECD7\METHODS\80811012.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Mon Oct 15 10:51:09 2018

Calibration Files
2 =7T01026.D 5 =7T01027.D 10 =7T01028.D
25 =7T01023.D 50 =7T01024.D 100 =7T01025.D

		Compound	2	5	10	25	50	100	Avg		%RSD
1)	S	TCMX	4.033	4.390	4.433	4.420	4.198	4.425	4.317	E6	3.82
2)		alpha-BHC	4.681	5.207	5.398	6.049	6.306	7.209	5.808	E6	15.53
3)	M	gamma-BHC (Lindane)	4.557	4.999	5.123	5.592	5.740	6.521	5.422	E6	12.65
4)	M	Heptachlor	5.638	5.959	5.755	5.935	5.964	6.690	5.990	E6	6.13
5)		beta-BHC	2.631	2.672	2.603	2.613	2.491	2.756	2.628	E6	3.31
6)		delta-BHC	4.676	5.031	5.221	5.593	5.883	6.751	5.526	E6	13.28
7)	M	Aldrin	4.718	5.147	5.071	5.319	5.506	6.274	5.339	E6	9.90
8)		Heptachlor epoxide	5.481	5.389	5.122	5.109	5.111	5.655	5.311	E6	4.37
9)		Endosulfan I	4.788	5.161	4.998	5.088	5.098	5.662	5.133	E6	5.65
10)		4,4'-DDE	4.788	5.161	4.998	5.088	5.098	5.662	5.133	E6	5.65
11)	M	Dieldrin	4.483	4.878	4.835	4.970	5.079	5.890	5.023	E6	9.36
12)	M	Endrin	4.286	4.557	4.500	4.712	4.798	5.486	4.723	E6	8.76
13)		4,4'-DDD	3.476	3.694	3.677	3.773	3.927	4.599	3.858	E6	10.15
14)		Endosulfan II	4.589	4.867	4.969	4.915	4.859	5.321	4.920	E6	4.80
15)	M	4,4'-DDT	3.669	3.907	3.921	4.091	4.248	4.978	4.136	E6	11.03
16)		Endrin aldehyde	4.377	4.519	4.661	4.569	4.472	4.673	4.545	E6	2.50
17)		Endosulfan sulfate	4.966	4.980	5.111	4.850	4.728	4.967	4.934	E6	2.64
18)		Methoxychlor	2.574	2.589	2.553	2.506	2.429	2.593	2.541	E6	2.48
19)		Endrin ketone	5.041	5.404	5.575	5.445	5.409	5.795	5.445	E6	4.54
20)	S	Decachlorobiphenyl	6.811	6.990	6.289	5.667	5.346	5.589	6.115	E6	11.21
21)	L1	Chlordane (gamma)	5.198	5.436	5.242	5.270	5.347	6.023	5.419	E6	5.67
22)	L1	Chlordane (alpha)	4.976	5.339	5.191	5.247	5.277	5.921	5.325	E6	5.96
23)	L2	Toxaphene (1)							0.000	0	-1.00

Signal #2 Calibration Files
2 =7T01026.D 5 =7T01027.D 10 =7T01028.D
25 =7T01023.D 50 =7T01024.D 100 =7T01025.D

		Compound	2	5	10	25	50	100	Avg		%RSD
1)	S	TCMX	4.878	4.229	4.007	3.866	3.609	3.760	4.058	E6	11.19
2)		alpha-BHC	4.974	5.424	5.555	5.886	5.905	6.555	5.717	E6	9.36
3)	M	gamma-BHC (Lindane)	4.797	5.148	5.217	5.402	5.390	5.951	5.318	E6	7.15
4)	M	Heptachlor	6.002	5.766	5.470	5.420	5.372	5.944	5.662	E6	4.90
5)		beta-BHC	2.928	2.771	2.607	2.437	2.326	2.452	2.587	E6	8.81
6)		delta-BHC	4.878	5.129	5.293	5.389	5.489	6.104	5.380	E6	7.70
7)	M	Aldrin	4.853	5.063	4.882	4.878	4.869	5.450	4.999	E6	4.68
8)		Heptachlor epoxide	4.850	5.102	4.873	4.695	4.600	5.036	4.859	E6	3.96
9)		Endosulfan I	4.980	5.068	4.836	4.565	4.473	4.898	4.803	E6	4.90
10)		4,4'-DDE	3.929	4.185	4.052	4.047	4.101	4.646	4.160	E6	6.07
11)	M	Dieldrin	4.691	4.877	4.723	4.590	4.535	5.056	4.745	E6	4.07
12)	M	Endrin	4.257	4.407	4.269	4.247	4.205	4.687	4.345	E6	4.16
13)		4,4'-DDD	4.270	3.968	3.755	3.551	3.522	3.930	3.833	E6	7.39
14)		Endosulfan II	4.723	4.761	4.763	4.352	4.166	4.427	4.532	E6	5.58
15)	M	4,4'-DDT	2.917	3.303	3.312	3.407	3.475	4.014	3.405	E6	10.44
16)		Endrin aldehyde	4.241	4.134	4.243	3.977	3.786	3.869	4.042	E6	4.80
17)		Endosulfan sulfate	4.893	4.748	4.717	4.259	4.062	4.173	4.475	E6	7.85
18)		Methoxychlor	2.152	2.251	2.158	2.053	1.984	2.100	2.116	E6	4.38
19)		Endrin ketone	4.585	4.858	4.972	4.595	4.506	4.733	4.708	E6	3.82
20)	S	Decachlorobiphenyl	4.482	4.380	3.971	3.486	3.274	3.404	3.833	E6	13.59
21)	L1	Chlordane (gamma)	4.856	5.047	4.814	4.634	4.589	5.073	4.835	E6	4.17
22)	L1	Chlordane (alpha)	4.980	5.068	4.836	4.565	4.473	4.898	4.803	E6	4.90
23)	L2	Toxaphene (1)							0.000	0	-1.00

(#) = Out of Range

Compound List Report GCECD-7

Method : G:\HPCHEM\GCECD7\METHODS\80811012.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Mon Oct 15 10:51:09 2018
Response via : Initial Calibration
Total Cpnds : 47

PK#	Type	Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	TCMX	3.14	1.000	A	A	B
2		alpha-BHC	3.81	1.000	A	A	B
3	M	gamma-BHC (Lindane)	4.27	1.000	A	A	B
4	M	Heptachlor	5.02	1.000	A	A	B
5		beta-BHC	4.39	1.000	A	A	B
6		delta-BHC	4.67	1.000	A	A	B
7	M	Aldrin	5.55	1.000	A	A	B
8		Heptachlor epoxide	6.73	1.000	A	A	B
9		Endosulfan I	7.54	1.000	A	A	B
10		4,4'-DDE	7.54	1.000	A	A	B
11	M	Dieldrin	8.07	1.000	A	A	B
12	M	Endrin	8.58	1.000	A	A	B
13		4,4'-DDD	8.82	1.000	A	A	B
14		Endosulfan II	9.10	1.000	A	A	B
15	M	4,4'-DDT	9.48	1.000	A	A	B
16		Endrin aldehyde	10.11	1.000	A	A	B
17		Endosulfan sulfate	11.28	1.000	A	A	B
18		Methoxychlor	10.79	1.000	A	A	B
19		Endrin ketone	12.11	1.000	A	A	B
20	S	Decachlorobiphenyl	15.34	1.000	A	A	B
21	L1	Chlordane (gamma)	6.98	1.000	A	A	B
22	L1	Chlordane (alpha)	7.26	1.000	A	A	B
23	L2	Toxaphene (1)	11.16	1.000	A	A	R
24		Signal #2	35.00	1.000	A	A	B
25	S	TCMX #2	3.74	1.000	A	A	B
26		alpha-BHC #2	4.72	1.000	A	A	B
27	M	gamma-BHC (Lindane) #2	5.37	1.000	A	A	B
28	M	Heptachlor #2	6.27	1.000	A	A	B
29		beta-BHC #2	5.52	1.000	A	A	B
30		delta-BHC #2	6.12	1.000	A	A	B
31	M	Aldrin #2	6.96	1.000	A	A	B
32		Heptachlor epoxide #2	8.26	1.000	A	A	B
33		Endosulfan I #2	9.06	1.000	A	A	B
34		4,4'-DDE #2	9.50	1.000	A	A	B
35	M	Dieldrin #2	9.86	1.000	A	A	B
36	M	Endrin #2	10.63	1.000	A	A	B
37		4,4'-DDD #2	11.03	1.000	A	A	B
38		Endosulfan II #2	11.25	1.000	A	A	B
39	M	4,4'-DDT #2	12.02	1.000	A	A	B
40		Endrin aldehyde #2	12.36	1.000	A	A	B
41		Endosulfan sulfate #2	13.26	1.000	A	A	B
42		Methoxychlor #2	14.29	1.000	A	A	B
43		Endrin ketone #2	14.81	1.000	A	A	B
44	S	Decachlorobiphenyl #2	18.20	1.000	A	A	B
45	L1	Chlordane (gamma) #2	8.70	1.000	A	A	B
46	L1	Chlordane (alpha) #2	9.06	1.000	A	A	B
47	L2	Toxaphene (1) #2	14.69	1.000	A	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

80811012.M Mon Oct 15 11:43:27 2018 SS

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (X50pp):	S8J1202-CCV1(1)	Init. Calib. Date(s):	08/06/2018
File ID:	7T01001.D	Date Analyzed:	10/11/2018 14:58
Pesticides	Column 1	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Aldrin	05.57	05.47	05.67	4877459	4899942	0.50
alpha-BHC	03.82	03.72	03.92	5456497	5403858	1.00
alpha-Chlordane (cis)	07.28	07.18	07.38	4822852	4695952	2.60
beta-BHC	04.40	04.30	04.50	2474249	2265636	8.40
delta-BHC	04.69	04.59	04.79	5172184	5055150	2.30
Dieldrin	08.08	07.98	08.18	4709648	4418592	6.20
Endosulfan I	07.56	07.46	07.66	4541974	4600952	1.30
Endosulfan II	09.11	09.01	09.21	4489556	4140890	7.80
Endosulfan sulfate	11.30	11.20	11.40	4325451	3862356	10.70
Endrin	08.59	08.49	08.69	4120614	4351818	5.60
Endrin aldehyde	10.12	10.02	10.22	3979113	3387226	14.90
Endrin ketone	12.13	12.03	12.23	5035335	4704802	6.60
gamma-BHC (Lindane)	04.28	04.18	04.38	5082343	5136686	1.10
4,4'-DDT	09.50	09.40	09.60	3869625	3787356	2.10
4,4'-DDE	07.56	07.46	07.66	4404421	4600952	4.50
4,4'-DDD	08.84	08.74	08.94	3512994	3496960	0.50
Methoxychlor	10.80	10.70	10.90	2033945	2231690	9.70
Heptachlor Epoxide	06.74	06.64	06.84	4794081	4565794	4.80
Heptachlor	05.04	04.94	05.14	5246329	5236254	0.20
					Average %D:	4.78

* - Outside of QC limits

F-VII

CALIBRATION VERIFICATION SUMMARY

Client: **Peak Environmental**
Work Order: **8100452**

Lab Sample ID (X50pp):	S8J1202-CCV1(2)	Init. Calib. Date(s):	08/06/2018
File ID:	7T01001.D	Date Analyzed:	10/11/2018 14:58
Pesticides	Column 2	Matrix:	Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Aldrin [2C]	06.96	06.86	07.06	4424124	4460442	0.80
alpha-BHC [2C]	04.71	04.61	04.81	5063246	5193134	2.60
alpha-Chlordane (cis) [2C]	09.05	08.95	09.15	4240424	4000910	5.60
beta-BHC [2C]	05.51	05.41	05.61	2339061	2105140	10.00
delta-BHC [2C]	06.11	06.01	06.21	4680517	4850104	3.60
Dieldrin [2C]	09.85	09.75	09.95	4169666	4016782	3.70
Endosulfan I [2C]	09.05	08.95	09.15	3973062	4000910	0.70
Endosulfan II [2C]	11.24	11.14	11.34	4056479	3573708	11.90
Endosulfan sulfate [2C]	13.25	13.15	13.35	3876638	3371792	13.00
Endrin [2C]	10.63	10.53	10.73	3651053	3836088	5.10
Endrin aldehyde [2C]	12.35	12.25	12.45	3590744	2943654	18.00
Endrin ketone [2C]	14.81	14.71	14.91	4167805	3970844	4.70
gamma-BHC (Lindane) [2C]	05.37	05.27	05.47	4726962	4938496	4.50
4,4'-DDT [2C]	12.01	11.91	12.11	3002849	3151962	5.00
4,4'-DDE [2C]	09.50	09.40	09.60	3853824	3778712	1.90
4,4'-DDD [2C]	11.02	10.92	11.12	3290967	3164538	3.80
Methoxychlor [2C]	14.29	14.19	14.39	1717232	1844271	7.40
Heptachlor Epoxide [2C]	08.26	08.16	08.36	4229546	4141770	2.10
Heptachlor [2C]	06.26	06.16	06.36	4868319	4842704	0.50
					Average %D:	5.52

* - Outside of QC limits

F-VII

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01001.D\ECD1A.CH Vial: 3
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01001.D\ECD2B.CH
Acq On : 11 Oct 2018 14:58 Operator: sdp
Sample : SEQ-CCV Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:26 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 09:23:17 2018
Response via : Initial Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
	System Monitoring Compounds						
1) S	TCMX	3.14	3.74	66826565	59120632	16.647	15.725
	Spiked Amount 50.000	Range 43 - 129		Recovery =		33.29%#	31.45%#
20) S	Decachlorobiphen	15.35	18.20	89341608	56240380	17.369	13.829
	Spiked Amount 50.000	Range 42 - 136		Recovery =		34.74%#	27.66%#
	Target Compounds						
2)	alpha-BHC	3.82	4.71	270.2E6	259.7E6	49.518	51.283
3) M	gamma-BHC (Linda	4.28	5.37	256.8E6	246.9E6	50.535	52.238
4) M	Heptachlor	5.04	6.26	261.8E6	242.1E6	49.904	49.737
5)	beta-BHC	4.40	5.51	113.3E6	105.3E6	45.784	45.000
6)	delta-BHC	4.69	6.11	252.8E6	242.5E6	48.869	51.812
7) M	Aldrin	5.57	6.96	245.0E6	223.0E6	50.230	50.410
8)	Heptachlor epoxi	6.74	8.26	228.3E6	207.1E6	47.619	48.962
9)	Endosulfan I	7.56	9.05	230.0E6	200.0E6	50.649	50.350
10)	4,4'-DDE	7.56	9.50	230.0E6	188.9E6	52.231	49.026
11) M	Dieldrin	8.08	9.85	220.9E6	200.8E6	46.910	48.167
12) M	Endrin	8.59	10.63	217.6E6	191.8E6	52.805	52.534
13)	4,4'-DDD	8.84	11.02	174.8E6	158.2E6	49.772	48.079
14)	Endosulfan II	9.11	11.24	207.0E6	178.7E6	46.117	44.049
15) M	4,4'-DDT	9.50	12.01	189.4E6	157.6E6	48.937	52.483
16)	Endrin aldehyde	10.12	12.35	169.4E6	147.2E6	42.563	40.989
17)	Endosulfan sulfa	11.30	13.25	193.1E6	168.6E6	44.647	43.489
18)	Methoxychlor	10.80	14.29	111.6E6	92213569	54.861	53.699
19)	Endrin ketone	12.13	14.81	235.2E6	198.5E6	46.718	47.637
21) L1	Chlordane (gamma	7.00	8.70	237.8E6	206.4E6	48.517	48.457
22) L1	Chlordane (alpha	7.28	9.05	234.8E6	200.0E6	48.684	47.176
	Sum Chlordane (gamma)			472.6E6	406.4E6	97.201	95.633
Average	Chlordane (gamma)					48.601	47.816
	Sum Toxaphene (1)			0	0	N.D.	N.D.
Average	Toxaphene (1)					0.000	0.000

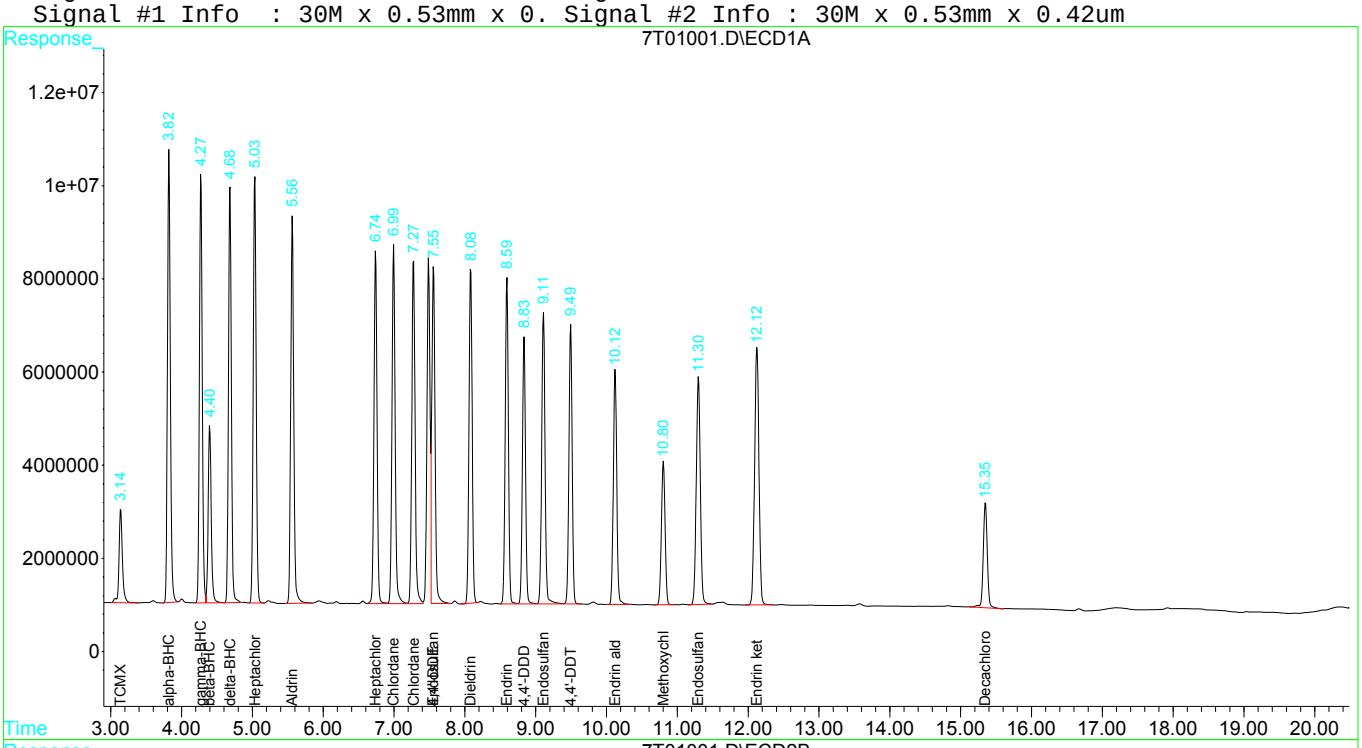
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
7T01001.D 80810806.M Fri Oct 12 10:05:53 2018 SS Page 1

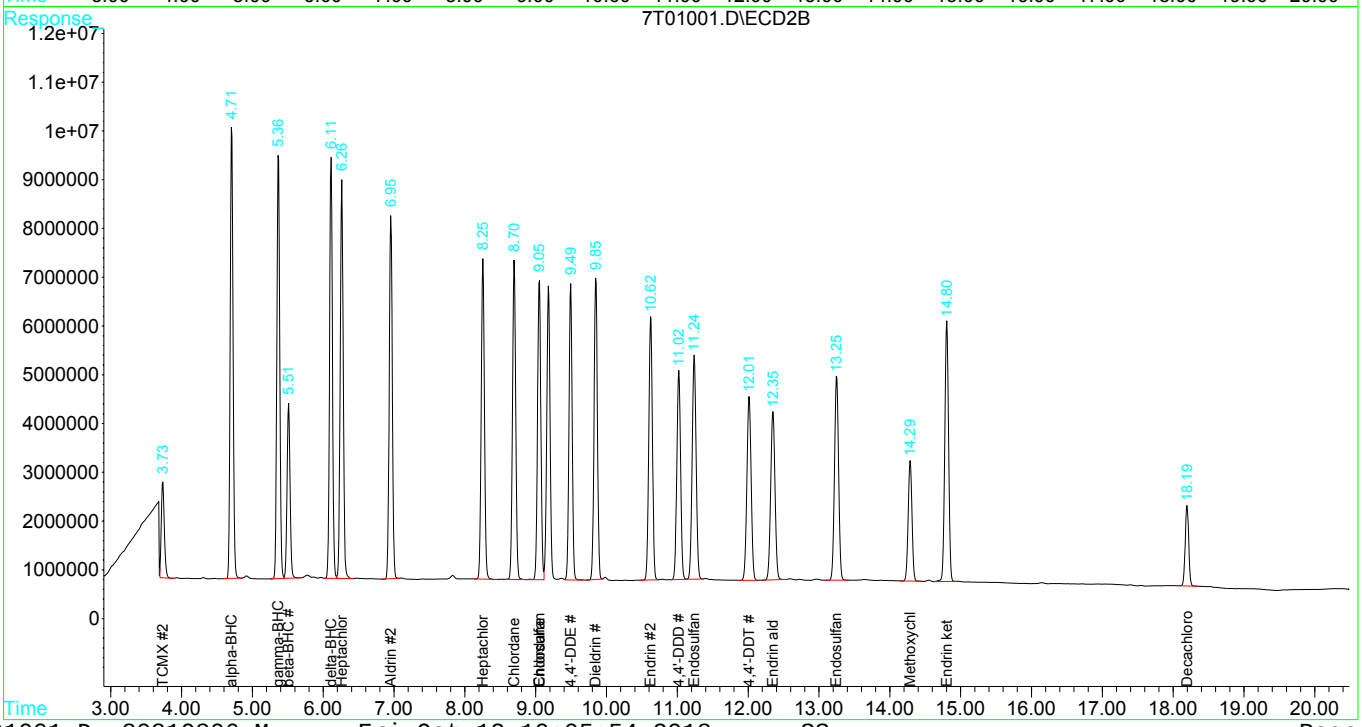
Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD7\DATA\20181011\7T01001.D\ECD1A.CH Vial: 3
Signal #2 : G:\HPCHEM\GCECD7\DATA\20181011\7T01001.D\ECD2B.CH
Acq On : 11 Oct 2018 14:58 Operator: sdp
Sample : SEQ-CCV Inst : GCECD-7
Misc : Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Oct 11 15:26 2018 Quant Results File: 80810806.RES

Quant Method : G:\HPCHEM\G...\80810806.M (Chemstation Integrator)
Title : Pesticides by EPA Method 8081
Last Update : Thu Oct 11 09:23:17 2018
Response via : Multiple Level Calibration
DataAcq Meth : RUNPEST.M

Volume Inj. : 2ul
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





SEMIVOLATILES

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1101-BLK1**		

Init/Final Vol:	15 g / 1 mL	Prep Date:	10/11/2018 08:03	File ID:	DS18769.D
		Prep Batch:	B8J1101	Analyzed:	10/11/2018 13:11
		Matrix:	Soil	Sequence:	S8J1213
		Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.0319	0.200	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.0205	0.133	U
95-95-4	2,4,5-Trichlorophenol	ND	0.0181	0.133	U
88-06-2	2,4,6-Trichlorophenol	ND	0.00833	0.133	U
120-83-2	2,4-Dichlorophenol	ND	0.0134	0.133	U
105-67-9	2,4-Dimethylphenol	ND	0.0131	0.133	U
51-28-5	2,4-Dinitrophenol	ND	0.0192	0.667	U
121-14-2	2,4-Dinitrotoluene	ND	0.0142	0.133	U
606-20-2	2,6-Dinitrotoluene	ND	0.0318	0.133	U
91-58-7	2-Chloronaphthalene	ND	0.0153	0.133	U
95-57-8	2-Chlorophenol	ND	0.0176	0.133	U
91-57-6	2-Methylnaphthalene	ND	0.0319	0.200	U
95-48-7	2-Methylphenol	ND	0.0263	0.133	U
88-74-4	2-Nitroaniline	ND	0.0107	0.133	U
88-75-5	2-Nitrophenol	ND	0.0148	0.133	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.0140	0.133	U
106-44-5	3+4-Methylphenol	ND	0.0244	0.133	U
99-09-2	3-Nitroaniline	ND	0.0247	0.133	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.0251	0.333	U
101-55-3	4-Bromophenyl-phenyl ether	ND	0.0190	0.133	U
59-50-7	4-Chloro-3-methylphenol	ND	0.0210	0.133	U
106-47-8	4-Chloroaniline	ND	0.00466	0.133	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.00719	0.133	U
100-01-6	4-Nitroaniline	ND	0.0666	0.133	U
100-02-7	4-Nitrophenol	ND	0.00852	0.133	U
83-32-9	Acenaphthene	ND	0.00759	0.133	U
208-96-8	Acenaphthylene	ND	0.00463	0.133	U
98-86-2	Acetophenone	ND	0.0132	0.133	U
120-12-7	Anthracene	ND	0.0193	0.133	U
1912-24-9	Atrazine	ND	0.0125	0.133	U
100-52-7	Benzaldehyde	ND	0.0409	0.133	U

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ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1101-BLK1**		

Init/Final Vol:	15 g / 1 mL	Prep Date:	10/11/2018 08:03	File ID:	DS18769.D
		Prep Batch:	B8J1101	Analyzed:	10/11/2018 13:11
		Matrix:	Soil	Sequence:	S8J1213
		Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
56-55-3	Benzo(a)anthracene	ND	0.0134	0.133	U
50-32-8	Benzo(a)pyrene	ND	0.0232	0.133	U
205-99-2	Benzo(b)fluoranthene	ND	0.0187	0.133	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0108	0.133	U
207-08-9	Benzo(k)fluoranthene	ND	0.0153	0.133	U
92-52-4	Biphenyl	ND	0.0117	0.133	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.0184	0.133	U
111-44-4	bis(2-chloroethyl)ether	ND	0.0146	0.133	U
108-60-1	bis(2-chloroisopropyl)ether	ND	0.0479	0.133	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	0.0266	0.133	U
85-68-7	Butylbenzylphthalate	ND	0.0121	0.133	U
105-60-2	Caprolactam	ND	0.0172	0.133	U
86-74-8	Carbazole	ND	0.0256	0.333	U
218-01-9	Chrysene	ND	0.00912	0.133	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0132	0.133	U
132-64-9	Dibenzofuran	ND	0.00793	0.133	U
84-66-2	Diethylphthalate	ND	0.0258	0.133	U
131-11-3	Dimethylphthalate	0.0574	0.00826	0.133	J
84-74-2	Di-n-butylphthalate	ND	0.0544	0.133	U
117-84-0	Di-n-octylphthalate	ND	0.0273	0.133	U
206-44-0	Fluoranthene	ND	0.0125	0.133	U
86-73-7	Fluorene	ND	0.0111	0.133	U
118-74-1	Hexachlorobenzene	ND	0.0174	0.133	U
87-68-3	Hexachlorobutadiene	ND	0.0639	0.133	U
77-47-4	Hexachlorocyclopentadiene	ND	0.0555	0.333	U
67-72-1	Hexachloroethane	ND	0.0146	0.133	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0143	0.133	U
78-59-1	Isophorone	ND	0.00872	0.133	U
91-20-3	Naphthalene	ND	0.00986	0.133	U
98-95-3	Nitrobenzene	ND	0.0226	0.133	U
621-64-7	n-Nitroso-di-n-propylamine	ND	0.00713	0.133	U

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1101-BLK1**		

Init/Final Vol:	15 g / 1 mL	Prep Date:	10/11/2018 08:03	File ID:	DS18769.D
		Prep Batch:	B8J1101	Analyzed:	10/11/2018 13:11
		Matrix:	Soil	Sequence:	S8J1213
		Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
86-30-6	n-Nitrosodiphenylamine	ND	0.0284	0.133	U
85-01-8	Phenanthrene	ND	0.0175	0.133	U
108-95-2	Phenol	ND	0.0108	0.133	U
129-00-0	Pyrene	ND	0.00979	0.133	U

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1101-BLK1**		

		Prep Date:	10/11/2018 08:03	File ID:	DS18769.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/2018 13:11
		Matrix:	Soil	Sequence:	S8J1213
		Prep Method:	Sonication MS		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg wet)	RT	Q
	Sum of Tentatively Identified Compounds	0.000		

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ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1101-BLK1**		

Init/Final Vol:	15 g / 1 mL	Prep Date:	10/11/2018 08:03	File ID:	DS18769.D
		Prep Batch:	B8J1101	Analyzed:	10/11/2018 13:11
		Matrix:	Soil	Sequence:	S8J1213
		Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.111	0.200	U
91-57-6	2-Methylnaphthalene	ND	0.0319	0.200	U
83-32-9	Acenaphthene	ND	0.00759	0.133	U
208-96-8	Acenaphthylene	ND	0.00463	0.133	U
120-12-7	Anthracene	ND	0.0193	0.133	U
56-55-3	Benzo(a)anthracene	ND	0.0134	0.133	U
50-32-8	Benzo(a)pyrene	ND	0.0232	0.133	U
205-99-2	Benzo(b)fluoranthene	ND	0.0187	0.133	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0108	0.133	U
207-08-9	Benzo(k)fluoranthene	ND	0.0153	0.133	U
218-01-9	Chrysene	ND	0.00912	0.133	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0132	0.133	U
206-44-0	Fluoranthene	ND	0.0125	0.133	U
86-73-7	Fluorene	ND	0.0111	0.133	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0143	0.133	U
91-20-3	Naphthalene	ND	0.00986	0.133	U
85-01-8	Phenanthrene	ND	0.0175	0.133	U
129-00-0	Pyrene	ND	0.00979	0.133	U

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Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18769.D Vial: 4
Acq On : 11 Oct 2018 13:11 Operator: GCH
Sample : B8J1101-BLK1 Inst : GCMS-D
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 13:39 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

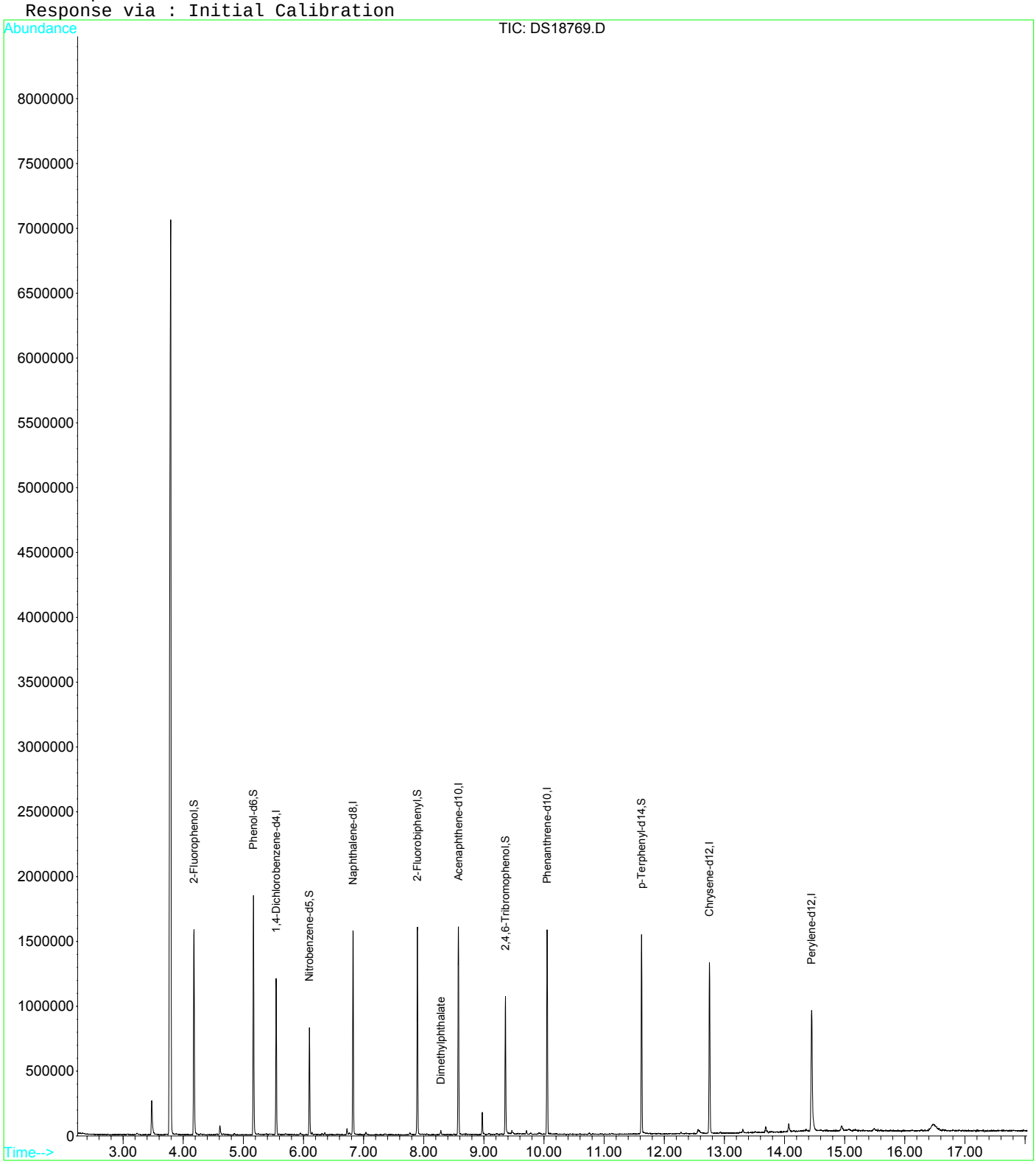
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	169814	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.83	136	643038	40.00	ug/kg	-0.06
39) Acenaphthene-d10	8.58	164	307744	40.00	ug/kg	-0.06
62) Phenanthrene-d10	10.05	188	545070	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	412629	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	408173	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	443335	76.16	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 76.16%			
8) Phenol-d6	5.17	99	576916	78.04	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 78.04%			
23) Nitrobenzene-d5	6.10	82	242418	40.51	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 81.02%			
44) 2-Fluorobiphenyl	7.90	172	433591	38.16	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 76.32%			
66) 2,4,6-Tribromophenol	9.36	330	79068	68.63	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 68.63%			
79) p-Terphenyl-d14	11.62	244	385999	40.93	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 81.86%			
Target Compounds						Qvalue
48) Dimethylphthalate	8.28	163	9408	0.86	ug/kg	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18769.D Vial: 4
Acq On : 11 Oct 2018 13:11 Operator: GCH
Sample : B8J1101-BLK1 Inst : GCMS-D
Misc : SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 13:39 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18769.D 0802ABN.M Tue Oct 16 12:43:50 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18771.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 14:10
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	89.91	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.0355	0.222	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.0228	0.148	U
95-95-4	2,4,5-Trichlorophenol	ND	0.0201	0.148	U
88-06-2	2,4,6-Trichlorophenol	ND	0.00927	0.148	U
120-83-2	2,4-Dichlorophenol	ND	0.0149	0.148	U
105-67-9	2,4-Dimethylphenol	ND	0.0146	0.148	U
51-28-5	2,4-Dinitrophenol	ND	0.0214	0.742	U
121-14-2	2,4-Dinitrotoluene	ND	0.0158	0.148	U
606-20-2	2,6-Dinitrotoluene	ND	0.0354	0.148	U
91-58-7	2-Chloronaphthalene	ND	0.0170	0.148	U
95-57-8	2-Chlorophenol	ND	0.0196	0.148	U
91-57-6	2-Methylnaphthalene	ND	0.0355	0.222	U
95-48-7	2-Methylphenol	ND	0.0293	0.148	U
88-74-4	2-Nitroaniline	ND	0.0119	0.148	U
88-75-5	2-Nitrophenol	ND	0.0165	0.148	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.0156	0.148	U
106-44-5	3+4-Methylphenol	ND	0.0271	0.148	U
99-09-2	3-Nitroaniline	ND	0.0275	0.148	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.0279	0.370	U
101-55-3	4-Bromophenyl-phenyl ether	ND	0.0211	0.148	U
59-50-7	4-Chloro-3-methylphenol	ND	0.0234	0.148	U
106-47-8	4-Chloroaniline	ND	0.00518	0.148	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.00800	0.148	U
100-01-6	4-Nitroaniline	ND	0.0741	0.148	U
100-02-7	4-Nitrophenol	ND	0.00948	0.148	U
83-32-9	Acenaphthene	ND	0.00844	0.148	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18771.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 14:10
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	89.91	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
208-96-8	Acenaphthylene	ND	0.00515	0.148	U
98-86-2	Acetophenone	ND	0.0147	0.148	U
120-12-7	Anthracene	ND	0.0215	0.148	U
1912-24-9	Atrazine	ND	0.0139	0.148	U
100-52-7	Benzaldehyde	ND	0.0455	0.148	U
56-55-3	Benzo(a)anthracene	0.0995	0.0149	0.148	J
50-32-8	Benzo(a)pyrene	0.0887	0.0258	0.148	J
205-99-2	Benzo(b)fluoranthene	0.107	0.0208	0.148	J
191-24-2	Benzo(g,h,i)perylene	0.0702	0.0120	0.148	J
207-08-9	Benzo(k)fluoranthene	0.0788	0.0170	0.148	J
92-52-4	Biphenyl	ND	0.0130	0.148	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.0205	0.148	U
111-44-4	bis(2-chloroethyl)ether	ND	0.0162	0.148	U
108-60-1	bis(2-chloroisopropyl)ether	ND	0.0533	0.148	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	0.0296	0.148	U
85-68-7	Butylbenzylphthalate	ND	0.0135	0.148	U
105-60-2	Caprolactam	ND	0.0191	0.148	U
86-74-8	Carbazole	ND	0.0285	0.370	U
218-01-9	Chrysene	0.0909	0.0101	0.148	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.0147	0.148	U
132-64-9	Dibenzofuran	ND	0.00882	0.148	U
84-66-2	Diethylphthalate	ND	0.0287	0.148	U
131-11-3	Dimethylphthalate	ND	0.00919	0.148	U
84-74-2	Di-n-butylphthalate	ND	0.0605	0.148	U
117-84-0	Di-n-octylphthalate	ND	0.0304	0.148	U
206-44-0	Fluoranthene	0.167	0.0139	0.148	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18771.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 14:10
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	89.91	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
86-73-7	Fluorene	ND	0.0123	0.148	U
118-74-1	Hexachlorobenzene	ND	0.0194	0.148	U
87-68-3	Hexachlorobutadiene	ND	0.0711	0.148	U
77-47-4	Hexachlorocyclopentadiene	ND	0.0617	0.370	U
67-72-1	Hexachloroethane	ND	0.0162	0.148	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0610	0.0159	0.148	J
78-59-1	Isophorone	ND	0.00970	0.148	U
91-20-3	Naphthalene	ND	0.0110	0.148	U
98-95-3	Nitrobenzene	ND	0.0251	0.148	U
621-64-7	n-Nitroso-di-n-propylamine	ND	0.00793	0.148	U
86-30-6	n-Nitrosodiphenylamine	ND	0.0316	0.148	U
85-01-8	Phenanthrene	0.126	0.0195	0.148	J
108-95-2	Phenol	ND	0.0120	0.148	U
129-00-0	Pyrene	0.158	0.0109	0.148	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18771.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 14:10
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	89.91	Prep Method:	Sonication MS		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18771.D Vial: 6
Acq On : 11 Oct 2018 14:10 Operator: GCH
Sample : 8100452-01 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 15:13 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

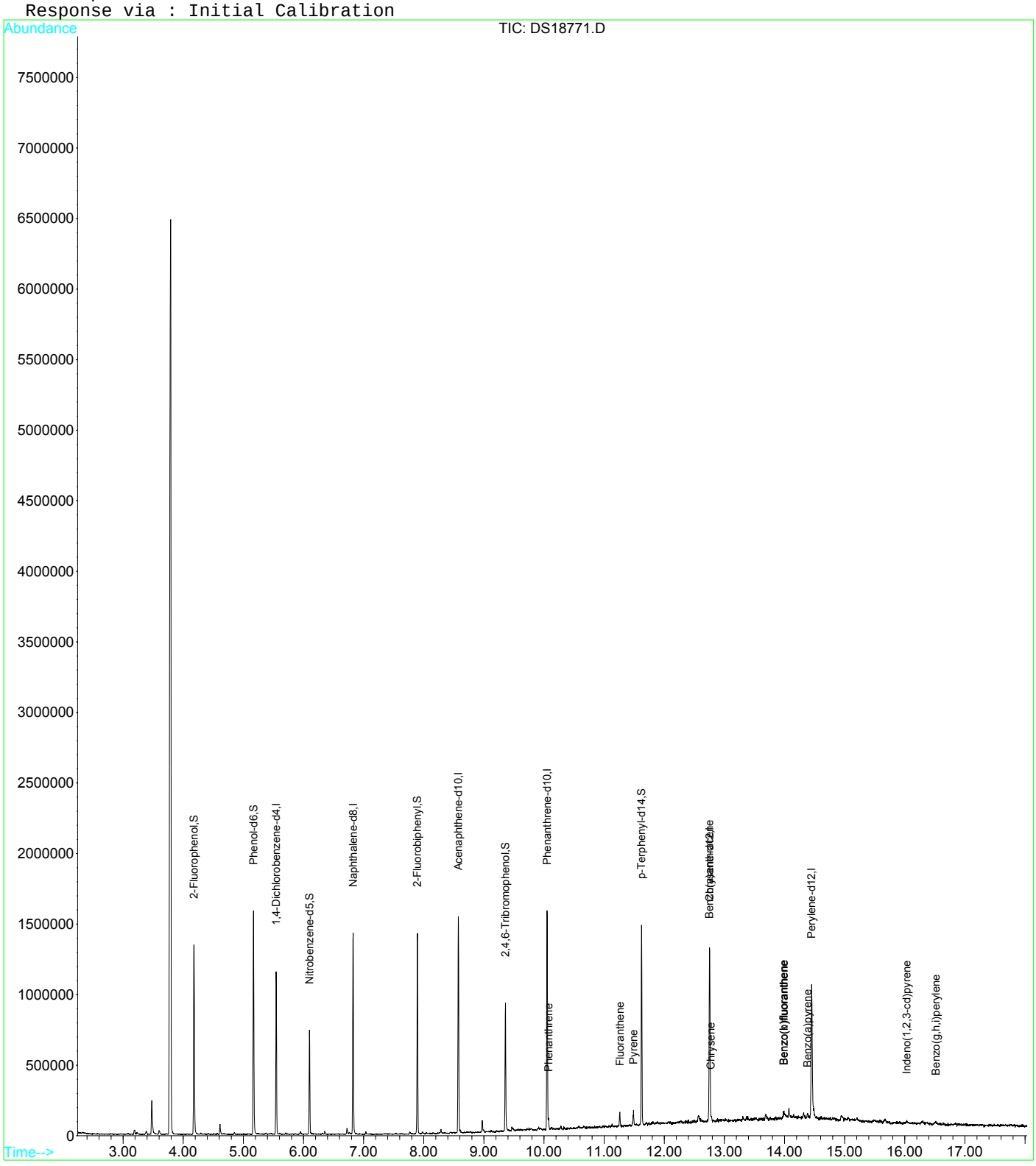
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	162070	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.83	136	608163	40.00	ug/kg	-0.06
39) Acenaphthene-d10	8.57	164	299587	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	519499	40.00	ug/kg	-0.07
76) Chrysene-d12	12.76	240	391750	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	379160	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	381348	68.64	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 68.64%			
8) Phenol-d6	5.17	99	508165	72.03	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 72.03%			
23) Nitrobenzene-d5	6.10	82	212205	37.49	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 74.98%			
44) 2-Fluorobiphenyl	7.90	172	386618	34.96	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 69.92%			
66) 2,4,6-Tribromophenol	9.36	330	70459	64.17	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 64.17%			
79) p-Terphenyl-d14	11.62	244	347430	38.80	ug/kg	-0.01
Spiked Amount 50.000	Range 29 - 110		Recovery = 77.60%			
Target Compounds						Qvalue
71) Phenanthrene	10.08	178	25294	1.70	ug/kg	96
75) Fluoranthene	11.26	202	35267	2.25	ug/kg	97
78) Pyrene	11.49	202	32004	2.13	ug/kg	94
81) Benzo(a)anthracene	12.74	228	17116	1.34	ug/kg	85
83) Chrysene	12.78	228	14951m	1.23	ug/kg	
87) Benzo(b)fluoranthene	13.99	252	15059m	1.44	ug/kg	
88) Benzo(k)fluoranthene	14.00	252	11305m	1.06	ug/kg	
89) Benzo(a)pyrene	14.39	252	12766	1.20	ug/kg#	89
90) Indeno(1,2,3-cd)pyrene	16.03	276	9646m	0.82	ug/kg	
92) Benzo(g,h,i)perylene	16.51	276	9349m	0.95	ug/kg	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18771.D Vial: 6
Acq On : 11 Oct 2018 14:10 Operator: GCH
Sample : 8100452-01 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 15:13 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



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14 14.2.

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18772.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 14:38
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	92.54	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.120	0.216	U
91-57-6	2-Methylnaphthalene	ND	0.0345	0.216	U
83-32-9	Acenaphthene	ND	0.00820	0.144	U
208-96-8	Acenaphthylene	ND	0.00500	0.144	U
120-12-7	Anthracene	ND	0.0209	0.144	U
56-55-3	Benzo(a)anthracene	0.0754	0.0145	0.144	J
50-32-8	Benzo(a)pyrene	0.0733	0.0251	0.144	J
205-99-2	Benzo(b)fluoranthene	ND	0.0202	0.144	U
191-24-2	Benzo(g,h,i)perylene	0.0911	0.0117	0.144	J
207-08-9	Benzo(k)fluoranthene	0.106	0.0165	0.144	J
218-01-9	Chrysene	0.0911	0.00985	0.144	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.0143	0.144	U
206-44-0	Fluoranthene	0.120	0.0135	0.144	J
86-73-7	Fluorene	ND	0.0120	0.144	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0155	0.144	U
91-20-3	Naphthalene	ND	0.0107	0.144	U
85-01-8	Phenanthrene	0.0544	0.0189	0.144	J
129-00-0	Pyrene	0.130	0.0106	0.144	J

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18772.D Vial: 7
Acq On : 11 Oct 2018 14:38 Operator: GCH
Sample : 8100452-02 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 15:14 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

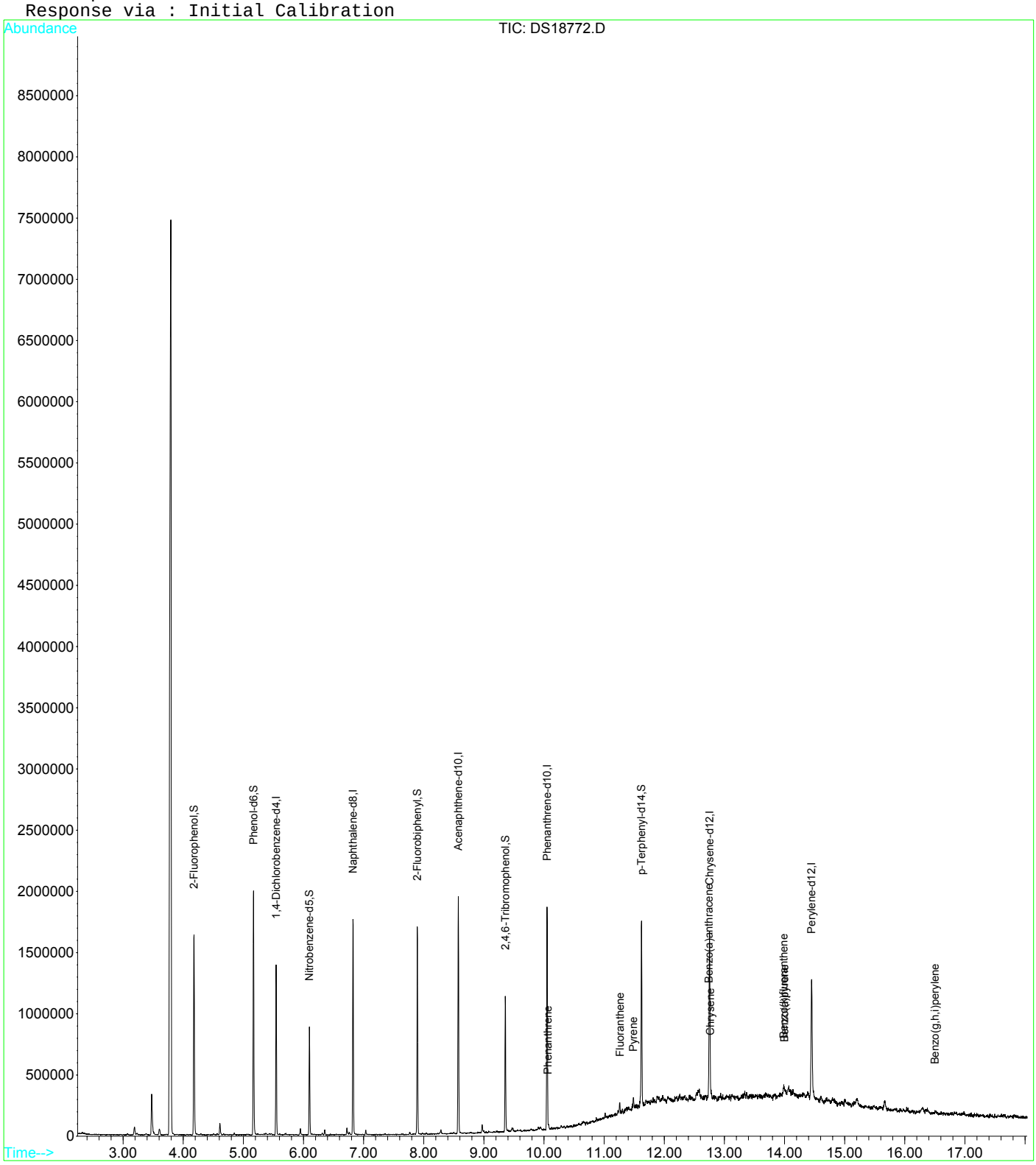
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	182818	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.82	136	695780	40.00	ug/kg	-0.07
39) Acenaphthene-d10	8.57	164	358130	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	600167	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	442655	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	426788	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	449804	71.78	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 71.78%			
8) Phenol-d6	5.17	99	588966	74.01	ug/kg	-0.07
Spiked Amount 100.000	Range 20 - 88		Recovery = 74.01%			
23) Nitrobenzene-d5	6.10	82	249646	38.55	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 77.10%			
44) 2-Fluorobiphenyl	7.89	172	446223	33.75	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 67.50%			
66) 2,4,6-Tribromophenol	9.36	330	79687	62.82	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 62.82%			
79) p-Terphenyl-d14	11.62	244	378142	37.38	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 74.76%			
Target Compounds						Qvalue
71) Phenanthrene	10.07	178	12989	0.76	ug/kg	92
75) Fluoranthene	11.26	202	30146	1.67	ug/kg	93
78) Pyrene	11.49	202	30527	1.80	ug/kg	99
81) Benzo(a)anthracene	12.74	228	15089m	1.05	ug/kg	
83) Chrysene	12.78	228	17418m	1.26	ug/kg	
88) Benzo(k)fluoranthene	13.98	252	17607m	1.47	ug/kg	
89) Benzo(a)pyrene	14.01	252	12220m	1.02	ug/kg	
92) Benzo(g,h,i)perylene	16.51	276	14061m	1.26	ug/kg	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18772.D Vial: 7
Acq On : 11 Oct 2018 14:38 Operator: GCH
Sample : 8100452-02 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 15:14 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



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ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-2B**
Lab Sample ID: **8100452-03**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18773.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:07
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	92.25	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.120	0.217	U
91-57-6	2-Methylnaphthalene	ND	0.0346	0.217	U
83-32-9	Acenaphthene	ND	0.00823	0.144	U
208-96-8	Acenaphthylene	ND	0.00502	0.144	U
120-12-7	Anthracene	ND	0.0209	0.144	U
56-55-3	Benzo(a)anthracene	0.0876	0.0145	0.144	J
50-32-8	Benzo(a)pyrene	0.0814	0.0251	0.144	J
205-99-2	Benzo(b)fluoranthene	0.0987	0.0203	0.144	J
191-24-2	Benzo(g,h,i)perylene	0.0663	0.0117	0.144	J
207-08-9	Benzo(k)fluoranthene	0.0460	0.0166	0.144	J
218-01-9	Chrysene	0.0730	0.00989	0.144	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.0143	0.144	U
206-44-0	Fluoranthene	0.153	0.0135	0.144	
86-73-7	Fluorene	ND	0.0120	0.144	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0155	0.144	U
91-20-3	Naphthalene	ND	0.0107	0.144	U
85-01-8	Phenanthrene	0.114	0.0190	0.144	J
129-00-0	Pyrene	0.137	0.0106	0.144	J

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18773.D Vial: 8
Acq On : 11 Oct 2018 15:07 Operator: GCH
Sample : 8100452-03 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:06 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	167877	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.82	136	627978	40.00	ug/kg	-0.07
39) Acenaphthene-d10	8.57	164	308607	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	531137	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	397045	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	381767	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	432315	75.13	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 75.13%			
8) Phenol-d6	5.17	99	560231	76.66	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 76.66%			
23) Nitrobenzene-d5	6.10	82	227128	38.86	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 77.72%			
44) 2-Fluorobiphenyl	7.90	172	426186	37.41	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 74.82%			
66) 2,4,6-Tribromophenol	9.36	330	79506	70.82	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 70.82%			
79) p-Terphenyl-d14	11.62	244	365684	40.30	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 80.60%			

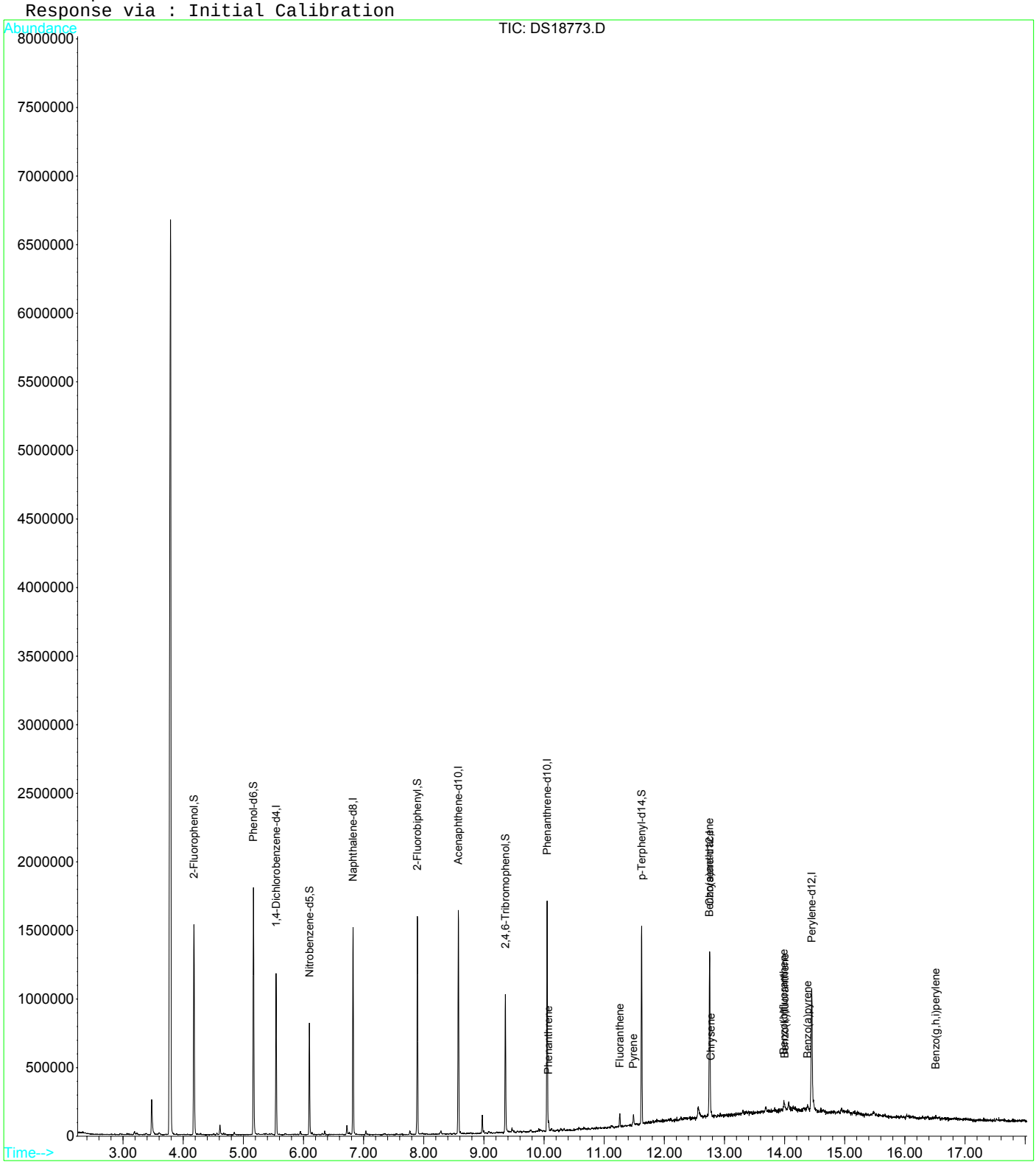
Target Compounds						Qvalue
71) Phenanthrene	10.07	178	24099	1.58	ug/kg	95
75) Fluoranthene	11.26	202	33875	2.11	ug/kg	96
78) Pyrene	11.49	202	28837	1.90	ug/kg	98
81) Benzo(a)anthracene	12.74	228	15674m	1.21	ug/kg	
83) Chrysene	12.78	228	12491	1.01	ug/kg	97
87) Benzo(b)fluoranthene	13.99	252	14397	1.37	ug/kg	82
88) Benzo(k)fluoranthene	14.01	252	6816m	0.64	ug/kg	
89) Benzo(a)pyrene	14.38	252	12104	1.13	ug/kg	84
92) Benzo(g,h,i)perylene	16.51	276	9119m	0.92	ug/kg	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18773.D Vial: 8
Acq On : 11 Oct 2018 15:07 Operator: GCH
Sample : 8100452-03 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:06 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-3B**
Lab Sample ID: **8100452-04**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	DS18774.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:35
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	91.33	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.122	0.219	U
91-57-6	2-Methylnaphthalene	ND	0.0349	0.219	U
83-32-9	Acenaphthene	ND	0.00831	0.146	U
208-96-8	Acenaphthylene	ND	0.00507	0.146	U
120-12-7	Anthracene	ND	0.0211	0.146	U
56-55-3	Benzo(a)anthracene	ND	0.0147	0.146	U
50-32-8	Benzo(a)pyrene	ND	0.0254	0.146	U
205-99-2	Benzo(b)fluoranthene	ND	0.0205	0.146	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0118	0.146	U
207-08-9	Benzo(k)fluoranthene	ND	0.0168	0.146	U
218-01-9	Chrysene	ND	0.00999	0.146	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0145	0.146	U
206-44-0	Fluoranthene	ND	0.0137	0.146	U
86-73-7	Fluorene	ND	0.0122	0.146	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0157	0.146	U
91-20-3	Naphthalene	ND	0.0108	0.146	U
85-01-8	Phenanthrene	ND	0.0192	0.146	U
129-00-0	Pyrene	ND	0.0107	0.146	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18774.D Vial: 9
Acq On : 11 Oct 2018 15:35 Operator: GCH
Sample : 8100452-04 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:06 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	162627	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.82	136	625040	40.00	ug/kg	-0.07
39) Acenaphthene-d10	8.57	164	296500	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	521121	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	383151	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	361524	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	373953	67.08	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 67.08%			
8) Phenol-d6	5.17	99	499782	70.60	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 70.60%			
23) Nitrobenzene-d5	6.10	82	214431	36.86	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 73.72%			
44) 2-Fluorobiphenyl	7.90	172	381180	34.82	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 69.64%			
66) 2,4,6-Tribromophenol	9.36	330	69643	63.23	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 63.23%			
79) p-Terphenyl-d14	11.62	244	324130	37.01	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 74.02%			

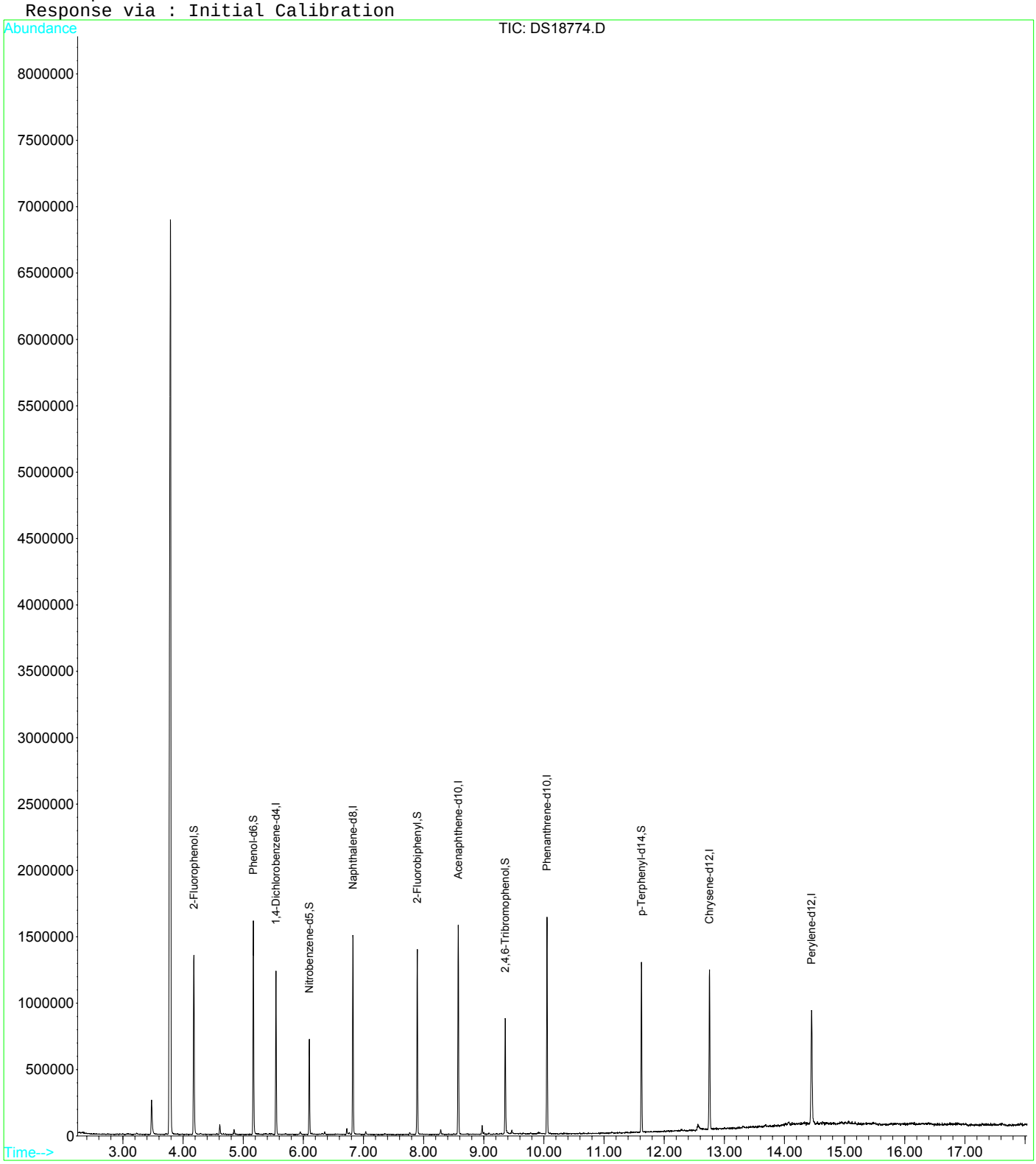
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
DS18774.D 0802ABN.M Tue Oct 16 12:44:02 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18774.D Vial: 9
Acq On : 11 Oct 2018 15:35 Operator: GCH
Sample : 8100452-04 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:06 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18774.D 0802ABN.M Tue Oct 16 12:44:02 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/11/18 08:03	File ID:	DS18775.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:04
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	92.00	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.121	0.217	U
91-57-6	2-Methylnaphthalene	ND	0.0347	0.217	U
83-32-9	Acenaphthene	ND	0.00825	0.145	U
208-96-8	Acenaphthylene	ND	0.00503	0.145	U
120-12-7	Anthracene	ND	0.0210	0.145	U
56-55-3	Benzo(a)anthracene	ND	0.0146	0.145	U
50-32-8	Benzo(a)pyrene	ND	0.0252	0.145	U
205-99-2	Benzo(b)fluoranthene	ND	0.0203	0.145	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0117	0.145	U
207-08-9	Benzo(k)fluoranthene	ND	0.0166	0.145	U
218-01-9	Chrysene	ND	0.00991	0.145	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0143	0.145	U
206-44-0	Fluoranthene	ND	0.0136	0.145	U
86-73-7	Fluorene	ND	0.0121	0.145	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0155	0.145	U
91-20-3	Naphthalene	ND	0.0107	0.145	U
85-01-8	Phenanthrene	ND	0.0190	0.145	U
129-00-0	Pyrene	ND	0.0106	0.145	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18775.D Vial: 10
Acq On : 11 Oct 2018 16:04 Operator: GCH
Sample : 8100452-05 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:55 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.54	152	159249	40.00	ug/kg	-0.07
22) Naphthalene-d8	6.83	136	609200	40.00	ug/kg	-0.07
39) Acenaphthene-d10	8.57	164	307467	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	538317	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	389183	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	380947	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	375745	68.83	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 68.83%			
8) Phenol-d6	5.17	99	505436	72.91	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 72.91%			
23) Nitrobenzene-d5	6.10	82	201356	35.52	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 71.04%			
44) 2-Fluorobiphenyl	7.89	172	387132	34.11	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 68.22%			
66) 2,4,6-Tribromophenol	9.36	330	68356	60.08	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 60.08%			
79) p-Terphenyl-d14	11.62	244	329459	37.04	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 74.08%			

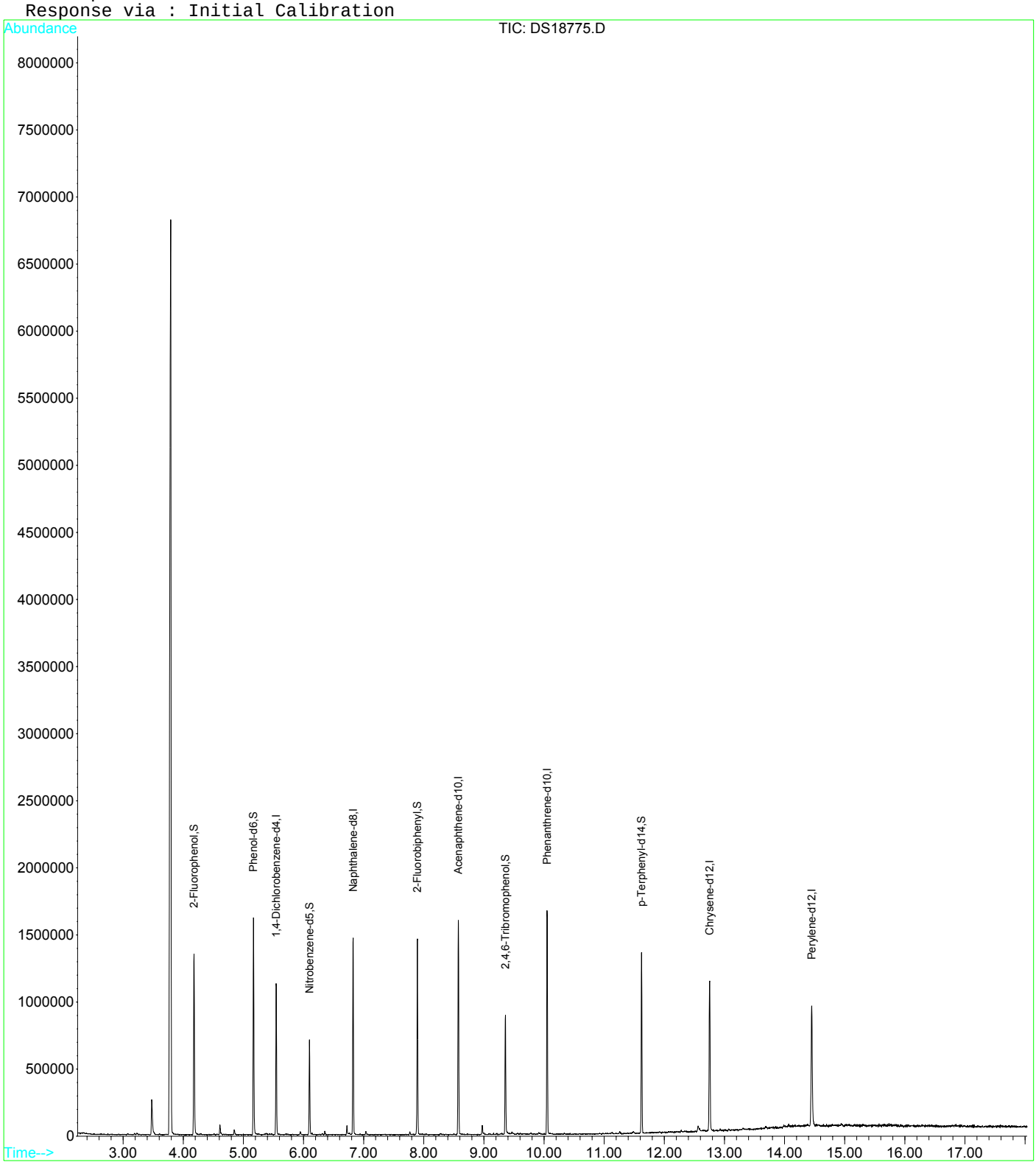
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18775.D Vial: 10
Acq On : 11 Oct 2018 16:04 Operator: GCH
Sample : 8100452-05 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:55 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18775.D 0802ABN.M Tue Oct 16 12:44:04 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/11/18 08:03	File ID:	DS18776.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:32
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	87.70	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.0364	0.228	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.0234	0.152	U
95-95-4	2,4,5-Trichlorophenol	ND	0.0206	0.152	U
88-06-2	2,4,6-Trichlorophenol	ND	0.00950	0.152	U
120-83-2	2,4-Dichlorophenol	ND	0.0153	0.152	U
105-67-9	2,4-Dimethylphenol	ND	0.0149	0.152	U
51-28-5	2,4-Dinitrophenol	ND	0.0219	0.761	U
121-14-2	2,4-Dinitrotoluene	ND	0.0162	0.152	U
606-20-2	2,6-Dinitrotoluene	ND	0.0363	0.152	U
91-58-7	2-Chloronaphthalene	ND	0.0174	0.152	U
95-57-8	2-Chlorophenol	ND	0.0201	0.152	U
91-57-6	2-Methylnaphthalene	ND	0.0364	0.228	U
95-48-7	2-Methylphenol	ND	0.0300	0.152	U
88-74-4	2-Nitroaniline	ND	0.0122	0.152	U
88-75-5	2-Nitrophenol	ND	0.0169	0.152	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.0160	0.152	U
106-44-5	3+4-Methylphenol	ND	0.0278	0.152	U
99-09-2	3-Nitroaniline	ND	0.0282	0.152	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.0286	0.380	U
101-55-3	4-Bromophenyl-phenyl ether	ND	0.0217	0.152	U
59-50-7	4-Chloro-3-methylphenol	ND	0.0239	0.152	U
106-47-8	4-Chloroaniline	ND	0.00531	0.152	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.00820	0.152	U
100-01-6	4-Nitroaniline	ND	0.0759	0.152	U
100-02-7	4-Nitrophenol	ND	0.00971	0.152	U
83-32-9	Acenaphthene	ND	0.00865	0.152	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/11/18 08:03	File ID:	DS18776.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:32
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	87.70	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
208-96-8	Acenaphthylene	ND	0.00528	0.152	U
98-86-2	Acetophenone	ND	0.0151	0.152	U
120-12-7	Anthracene	ND	0.0220	0.152	U
1912-24-9	Atrazine	ND	0.0143	0.152	U
100-52-7	Benzaldehyde	ND	0.0466	0.152	U
56-55-3	Benzo(a)anthracene	ND	0.0153	0.152	U
50-32-8	Benzo(a)pyrene	ND	0.0265	0.152	U
205-99-2	Benzo(b)fluoranthene	ND	0.0213	0.152	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0123	0.152	U
207-08-9	Benzo(k)fluoranthene	ND	0.0174	0.152	U
92-52-4	Biphenyl	ND	0.0133	0.152	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.0210	0.152	U
111-44-4	bis(2-chloroethyl)ether	ND	0.0166	0.152	U
108-60-1	bis(2-chloroisopropyl)ether	ND	0.0546	0.152	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	0.0303	0.152	U
85-68-7	Butylbenzylphthalate	ND	0.0138	0.152	U
105-60-2	Caprolactam	ND	0.0196	0.152	U
86-74-8	Carbazole	ND	0.0292	0.380	U
218-01-9	Chrysene	ND	0.0104	0.152	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0151	0.152	U
132-64-9	Dibenzofuran	ND	0.00904	0.152	U
84-66-2	Diethylphthalate	ND	0.0294	0.152	U
131-11-3	Dimethylphthalate	0.0721	0.00942	0.152	J
84-74-2	Di-n-butylphthalate	ND	0.0620	0.152	U
117-84-0	Di-n-octylphthalate	ND	0.0311	0.152	U
206-44-0	Fluoranthene	ND	0.0143	0.152	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/11/18 08:03	File ID:	DS18776.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:32
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	87.70	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
86-73-7	Fluorene	ND	0.0127	0.152	U
118-74-1	Hexachlorobenzene	ND	0.0198	0.152	U
87-68-3	Hexachlorobutadiene	ND	0.0729	0.152	U
77-47-4	Hexachlorocyclopentadiene	ND	0.0633	0.380	U
67-72-1	Hexachloroethane	ND	0.0166	0.152	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0163	0.152	U
78-59-1	Isophorone	ND	0.00994	0.152	U
91-20-3	Naphthalene	ND	0.0112	0.152	U
98-95-3	Nitrobenzene	ND	0.0258	0.152	U
621-64-7	n-Nitroso-di-n-propylamine	ND	0.00813	0.152	U
86-30-6	n-Nitrosodiphenylamine	ND	0.0324	0.152	U
85-01-8	Phenanthrene	ND	0.0200	0.152	U
108-95-2	Phenol	ND	0.0123	0.152	U
129-00-0	Pyrene	ND	0.0112	0.152	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/11/18 08:03	File ID:	DS18776.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:32
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	87.70	Prep Method:	Sonication MS		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18776.D Vial: 11
Acq On : 11 Oct 2018 16:32 Operator: GCH
Sample : 8100452-06 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:55 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

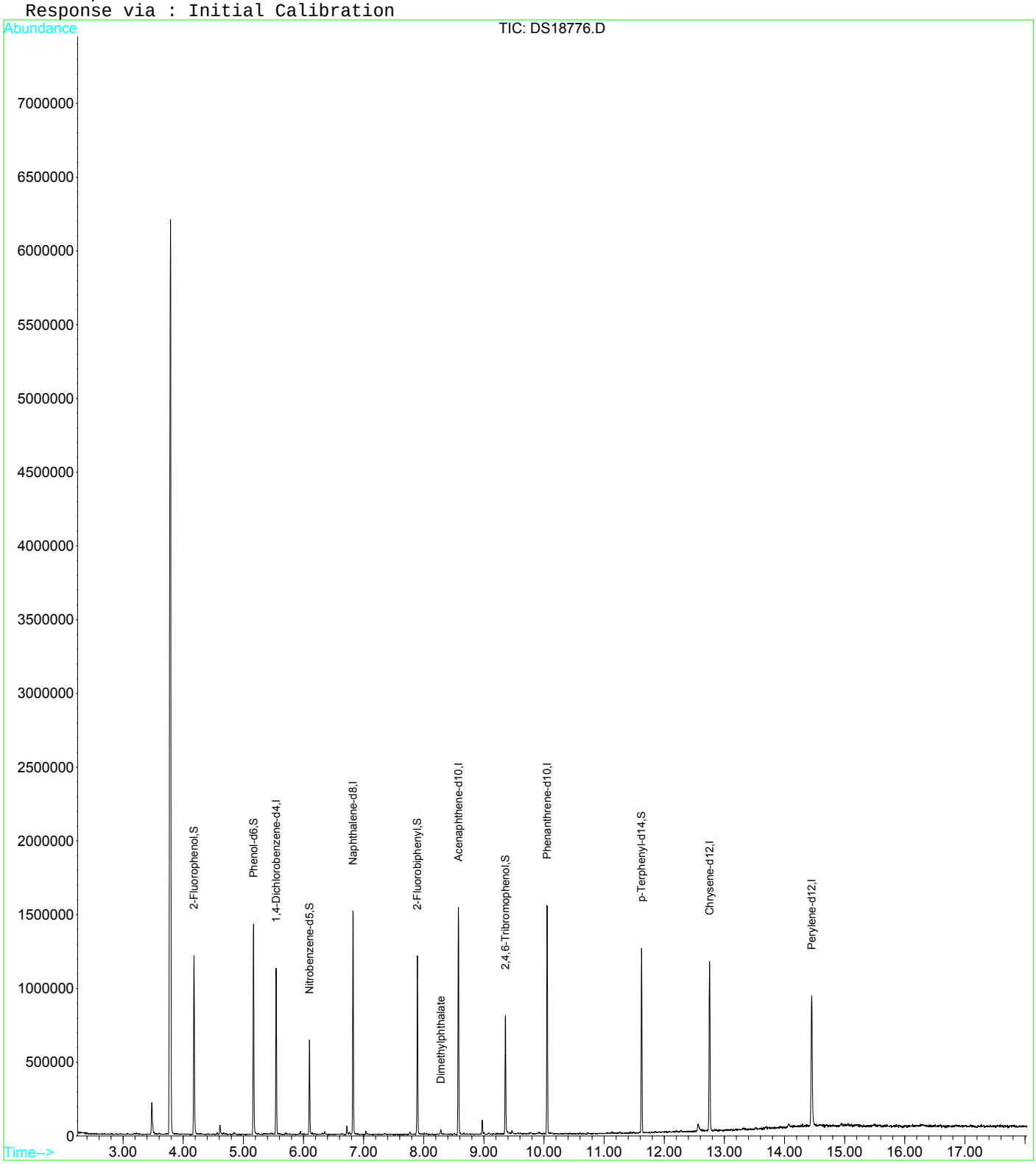
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	159499	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.83	136	607328	40.00	ug/kg	-0.06
39) Acenaphthene-d10	8.57	164	297278	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	519141	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	384901	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	374104	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	333649	61.03	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 61.03%			
8) Phenol-d6	5.17	99	449574	64.75	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 64.75%			
23) Nitrobenzene-d5	6.10	82	181211	32.06	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 64.12%			
44) 2-Fluorobiphenyl	7.90	172	334071	30.44	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 60.88%			
66) 2,4,6-Tribromophenol	9.36	330	61158	55.74	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 55.74%			
79) p-Terphenyl-d14	11.62	244	310860	35.34	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 70.68%			
Target Compounds						Qvalue
48) Dimethylphthalate	8.28	163	10007	0.95	ug/kg	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18776.D Vial: 11
Acq On : 11 Oct 2018 16:32 Operator: GCH
Sample : 8100452-06 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 16:55 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18776.D 0802ABN.M Tue Oct 16 12:44:06 2018 SS Page 2

14 14.2.

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/11/18 08:03	File ID:	DS18777.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 17:01
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	91.36	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.122	0.219	U
91-57-6	2-Methylnaphthalene	ND	0.0349	0.219	U
83-32-9	Acenaphthene	ND	0.00831	0.146	U
208-96-8	Acenaphthylene	ND	0.00507	0.146	U
120-12-7	Anthracene	ND	0.0211	0.146	U
56-55-3	Benzo(a)anthracene	0.133	0.0147	0.146	J
50-32-8	Benzo(a)pyrene	0.105	0.0254	0.146	J
205-99-2	Benzo(b)fluoranthene	0.169	0.0205	0.146	
191-24-2	Benzo(g,h,i)perylene	0.124	0.0118	0.146	J
207-08-9	Benzo(k)fluoranthene	0.106	0.0167	0.146	J
218-01-9	Chrysene	0.134	0.00998	0.146	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.0144	0.146	U
206-44-0	Fluoranthene	0.193	0.0137	0.146	
86-73-7	Fluorene	ND	0.0122	0.146	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0157	0.146	U
91-20-3	Naphthalene	ND	0.0108	0.146	U
85-01-8	Phenanthrene	0.0964	0.0192	0.146	J
129-00-0	Pyrene	0.184	0.0107	0.146	

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18777.D Vial: 12
Acq On : 11 Oct 2018 17:01 Operator: GCH
Sample : 8100452-07 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 17:23 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.55	152	174325	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.83	136	649764	40.00	ug/kg	-0.06
39) Acenaphthene-d10	8.57	164	323492	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	554925	40.00	ug/kg	-0.07
76) Chrysene-d12	12.75	240	419384	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	388875	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	405659	67.89	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 67.89%			
8) Phenol-d6	5.17	99	544457	71.75	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 71.75%			
23) Nitrobenzene-d5	6.10	82	225533	37.30	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 74.60%			
44) 2-Fluorobiphenyl	7.90	172	419126	35.10	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 70.20%			
66) 2,4,6-Tribromophenol	9.36	330	75193	64.11	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 64.11%			
79) p-Terphenyl-d14	11.62	244	352232	36.75	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 73.50%			

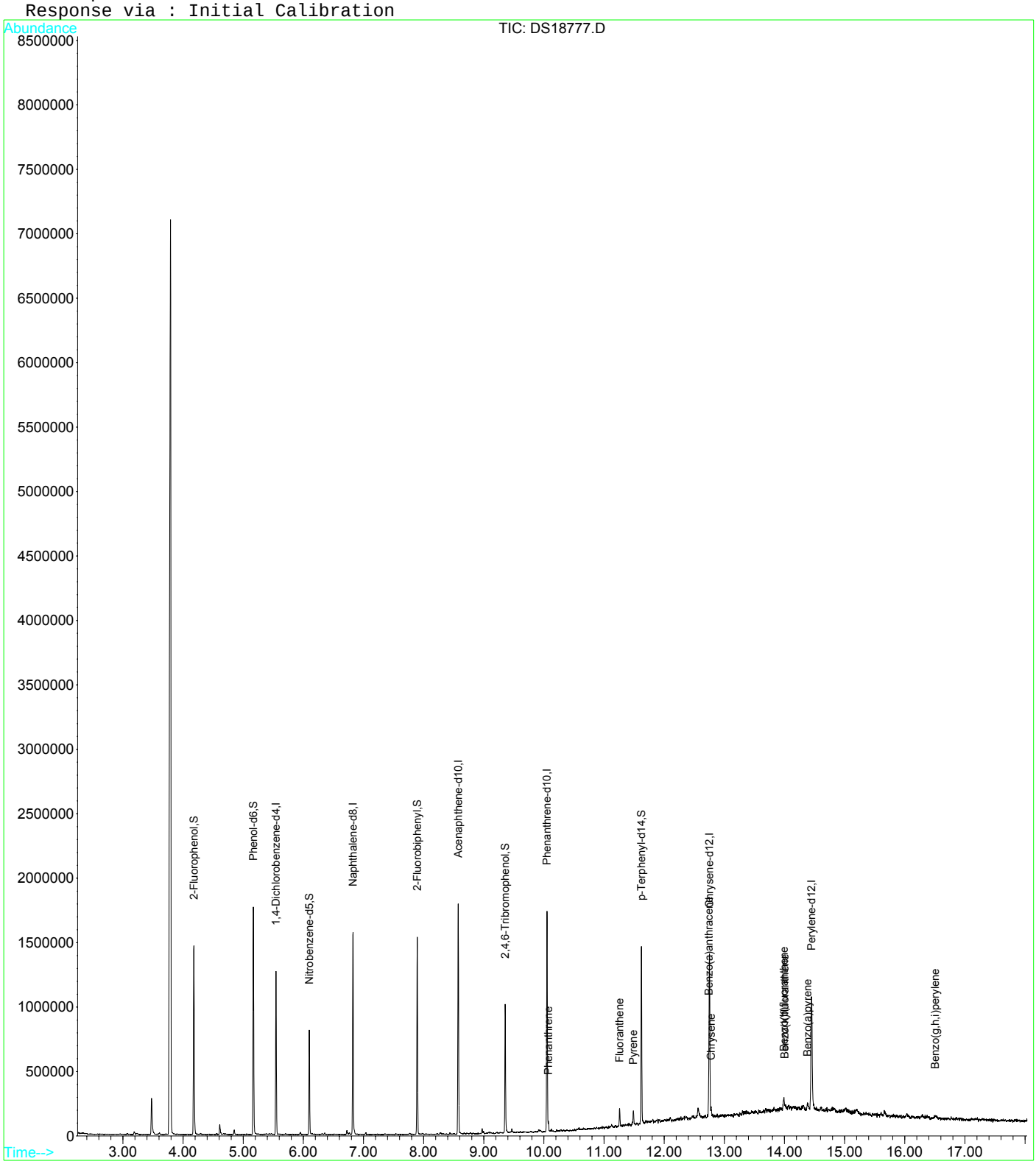
Target Compounds						Qvalue
71) Phenanthrene	10.08	178	21016	1.32	ug/kg	93
75) Fluoranthene	11.26	202	44262	2.64	ug/kg	96
78) Pyrene	11.49	202	40417	2.52	ug/kg	98
81) Benzo(a)anthracene	12.74	228	24823	1.82	ug/kg	81
83) Chrysene	12.78	228	24015	1.84	ug/kg	92
87) Benzo(b)fluoranthene	13.99	252	24866	2.32	ug/kg#	82
88) Benzo(k)fluoranthene	14.01	252	15919m	1.46	ug/kg	
89) Benzo(a)pyrene	14.38	252	15721	1.44	ug/kg	86
92) Benzo(g,h,i)perylene	16.51	276	17201m	1.70	ug/kg	

(#) = qualifier out of range (m) = manual integration
DS18777.D 0802ABN.M Tue Oct 16 12:44:08 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18777.D Vial: 12
Acq On : 11 Oct 2018 17:01 Operator: GCH
Sample : 8100452-07 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 17:23 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18777.D 0802ABN.M Tue Oct 16 12:44:08 2018 SS Page 2

14 14.2.

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 08:03	File ID:	DS18778.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 17:29
Dilution:	1	Matrix:	Soil	Sequence:	S8J1213
Percent Solids:	89.59	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.124	0.223	U
91-57-6	2-Methylnaphthalene	ND	0.0356	0.223	U
83-32-9	Acenaphthene	ND	0.00847	0.148	U
208-96-8	Acenaphthylene	ND	0.00517	0.148	U
120-12-7	Anthracene	ND	0.0215	0.148	U
56-55-3	Benzo(a)anthracene	ND	0.0150	0.148	U
50-32-8	Benzo(a)pyrene	ND	0.0259	0.148	U
205-99-2	Benzo(b)fluoranthene	ND	0.0209	0.148	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0121	0.148	U
207-08-9	Benzo(k)fluoranthene	ND	0.0171	0.148	U
218-01-9	Chrysene	ND	0.0102	0.148	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0147	0.148	U
206-44-0	Fluoranthene	ND	0.0140	0.148	U
86-73-7	Fluorene	ND	0.0124	0.148	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0160	0.148	U
91-20-3	Naphthalene	ND	0.0110	0.148	U
85-01-8	Phenanthrene	ND	0.0195	0.148	U
129-00-0	Pyrene	ND	0.0109	0.148	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18778.D Vial: 13
Acq On : 11 Oct 2018 17:29 Operator: GCH
Sample : 8100452-08 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 17:56 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Wed Oct 10 10:16:58 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.54	152	160052	40.00	ug/kg	-0.06
22) Naphthalene-d8	6.83	136	608878	40.00	ug/kg	-0.06
39) Acenaphthene-d10	8.57	164	294400	40.00	ug/kg	-0.07
62) Phenanthrene-d10	10.05	188	519881	40.00	ug/kg	-0.07
76) Chrysene-d12	12.76	240	381925	40.00	ug/kg	-0.08
85) Perylene-d12	14.45	264	375896	40.00	ug/kg	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	397722	72.49	ug/kg	-0.08
Spiked Amount 100.000	Range 18 - 82		Recovery = 72.49%			
8) Phenol-d6	5.17	99	538634	77.31	ug/kg	-0.08
Spiked Amount 100.000	Range 20 - 88		Recovery = 77.31%			
23) Nitrobenzene-d5	6.10	82	217854	38.45	ug/kg	-0.12
Spiked Amount 50.000	Range 27 - 100		Recovery = 76.90%			
44) 2-Fluorobiphenyl	7.90	172	420201	38.66	ug/kg	-0.09
Spiked Amount 50.000	Range 27 - 105		Recovery = 77.32%			
66) 2,4,6-Tribromophenol	9.36	330	73752	67.12	ug/kg	-0.10
Spiked Amount 100.000	Range 24 - 115		Recovery = 67.12%			
79) p-Terphenyl-d14	11.62	244	352558	40.39	ug/kg	-0.02
Spiked Amount 50.000	Range 29 - 110		Recovery = 80.78%			

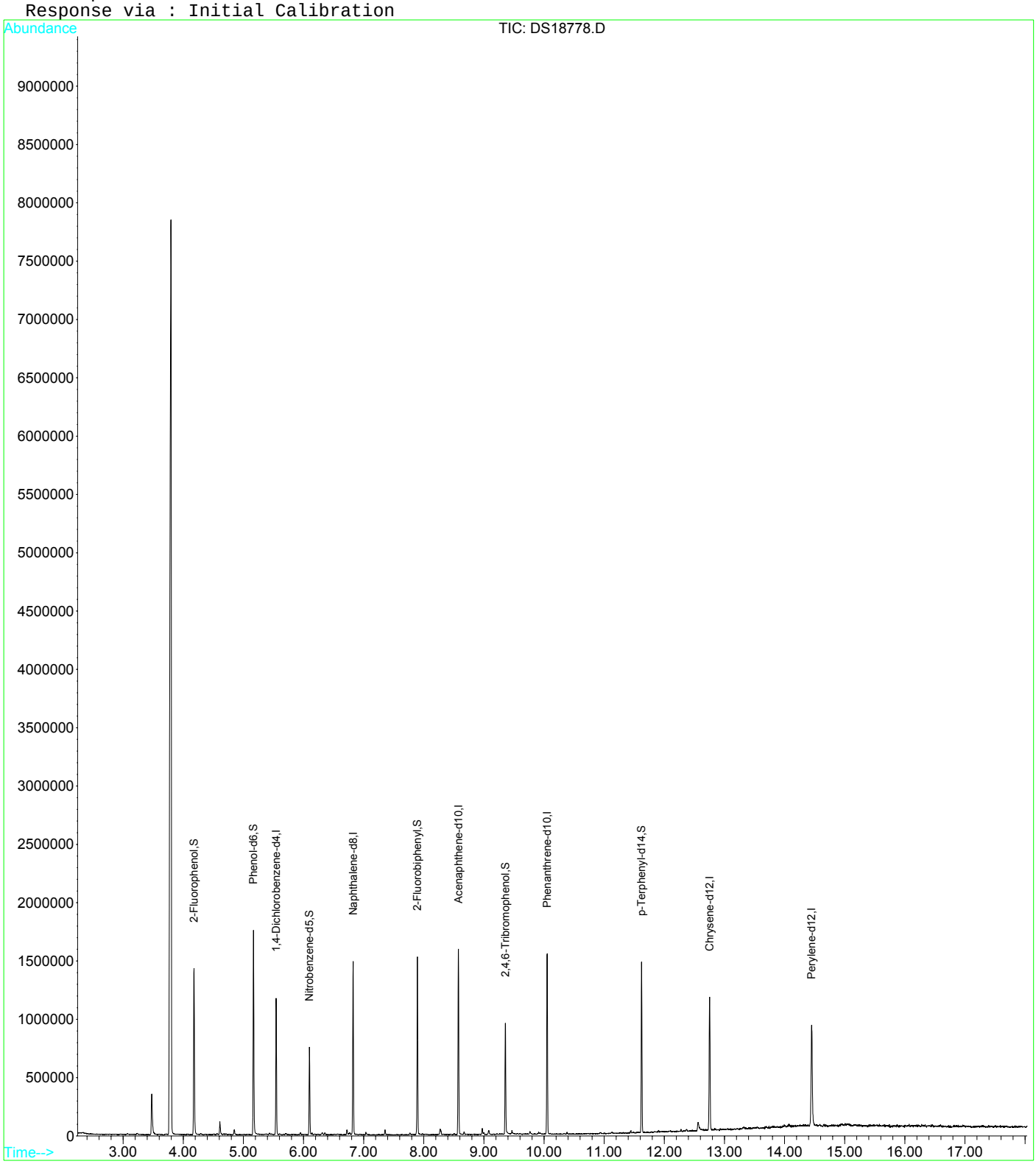
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
DS18778.D 0802ABN.M Tue Oct 16 12:44:10 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18778.D Vial: 13
Acq On : 11 Oct 2018 17:29 Operator: GCH
Sample : 8100452-08 Inst : GCMS-D
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 17:56 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



DS18778.D 0802ABN.M Tue Oct 16 12:44:10 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-2B**
Lab Sample ID: **8100452-09**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:30	Prep Date:	10/11/18 08:03	File ID:	AS07401.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 17:26
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	91.55	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.121	0.218	U
91-57-6	2-Methylnaphthalene	ND	0.0348	0.218	U
83-32-9	Acenaphthene	ND	0.00829	0.145	U
208-96-8	Acenaphthylene	ND	0.00506	0.145	U
120-12-7	Anthracene	ND	0.0211	0.145	U
56-55-3	Benzo(a)anthracene	ND	0.0146	0.145	U
50-32-8	Benzo(a)pyrene	ND	0.0253	0.145	U
205-99-2	Benzo(b)fluoranthene	ND	0.0204	0.145	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0118	0.145	U
207-08-9	Benzo(k)fluoranthene	ND	0.0167	0.145	U
218-01-9	Chrysene	ND	0.00996	0.145	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0144	0.145	U
206-44-0	Fluoranthene	ND	0.0137	0.145	U
86-73-7	Fluorene	ND	0.0121	0.145	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0156	0.145	U
91-20-3	Naphthalene	ND	0.0108	0.145	U
85-01-8	Phenanthrene	ND	0.0191	0.145	U
129-00-0	Pyrene	ND	0.0107	0.145	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07401.D Vial: 9
Acq On : 11 Oct 2018 17:26 Operator: GCH
Sample : 8100452-09 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 17:57 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	148181	40.00	ug/kg	0.00
21) Naphthalene-d8	7.54	136	560064	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.31	164	296470	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	568102	40.00	ug/kg	0.00
75) Chrysene-d12	13.67	240	628942	40.00	ug/kg	0.00
84) Perylene-d12	15.76	264	651720	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.97	112	275527	66.92	ug/kg	-0.03
Spiked Amount 100.000	Range 18 - 82		Recovery = 66.92%			
7) Phenol-d6	5.88	99	326363	66.98	ug/kg	0.00
Spiked Amount 100.000	Range 20 - 88		Recovery = 66.98%			
22) Nitrobenzene-d5	6.81	82	145665	38.52	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 100		Recovery = 77.04%			
43) 2-Fluorobiphenyl	8.61	172	381724	32.55	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 105		Recovery = 65.10%			
65) 2,4,6-Tribromophenol	10.10	330	120099	71.92	ug/kg	-0.01
Spiked Amount 100.000	Range 24 - 115		Recovery = 71.92%			
78) p-Terphenyl-d14	12.40	244	532800	34.04	ug/kg	0.01
Spiked Amount 50.000	Range 29 - 110		Recovery = 68.08%			

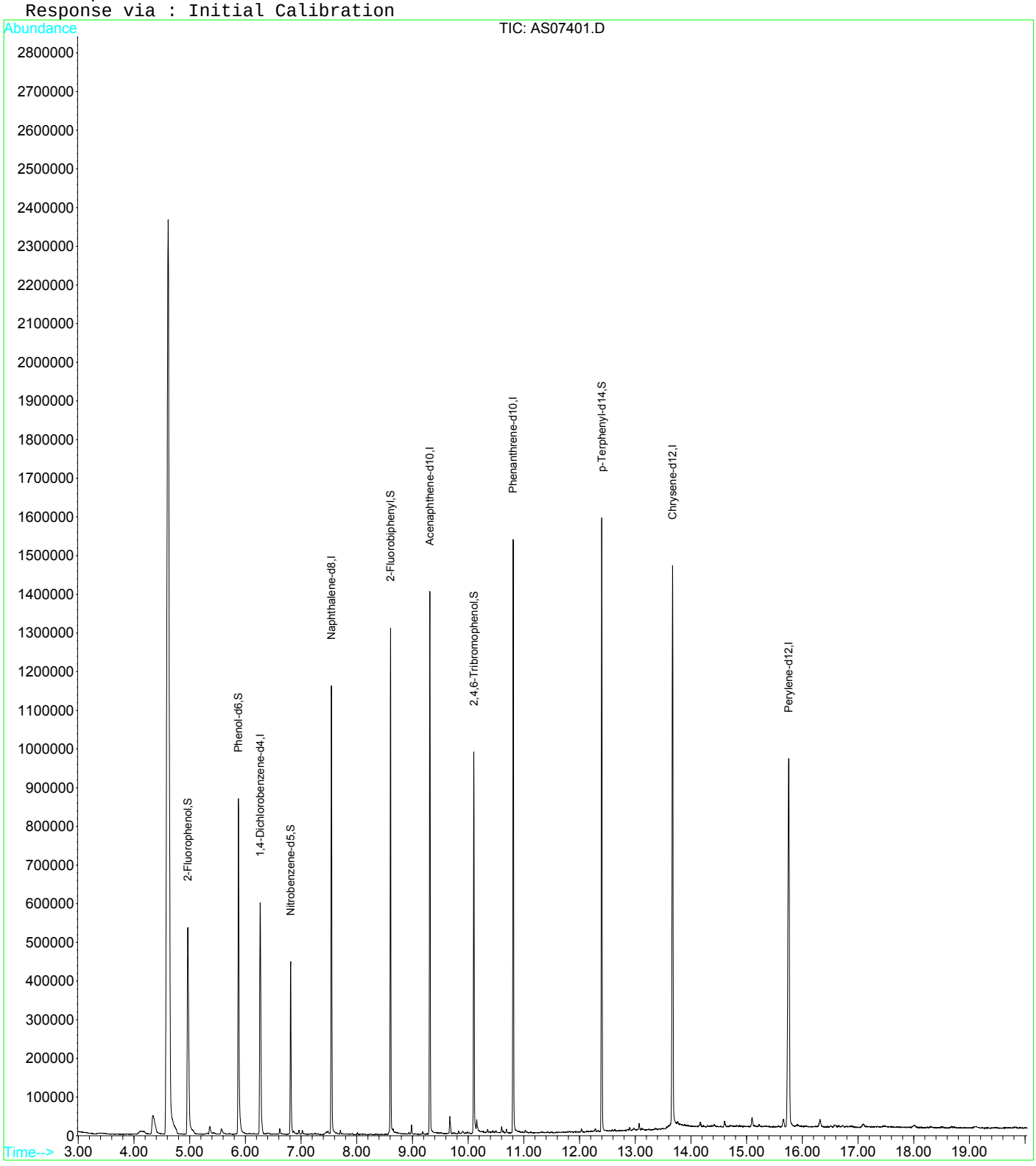
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
AS07401.D 0824ABN.M Fri Oct 12 15:12:04 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07401.D Vial: 9
Acq On : 11 Oct 2018 17:26 Operator: GCH
Sample : 8100452-09 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 17:57 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



AS07401.D 0824ABN.M Fri Oct 12 15:12:04 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-3B**
Lab Sample ID: **8100452-10**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:40	Prep Date:	10/11/18 08:03	File ID:	AS07396.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 14:58
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	91.53	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.121	0.219	U
91-57-6	2-Methylnaphthalene	ND	0.0349	0.219	U
83-32-9	Acenaphthene	ND	0.00829	0.145	U
208-96-8	Acenaphthylene	ND	0.00506	0.145	U
120-12-7	Anthracene	ND	0.0211	0.145	U
56-55-3	Benzo(a)anthracene	ND	0.0146	0.145	U
50-32-8	Benzo(a)pyrene	ND	0.0253	0.145	U
205-99-2	Benzo(b)fluoranthene	ND	0.0204	0.145	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0118	0.145	U
207-08-9	Benzo(k)fluoranthene	ND	0.0167	0.145	U
218-01-9	Chrysene	ND	0.00996	0.145	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0144	0.145	U
206-44-0	Fluoranthene	ND	0.0137	0.145	U
86-73-7	Fluorene	ND	0.0121	0.145	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0156	0.145	U
91-20-3	Naphthalene	ND	0.0108	0.145	U
85-01-8	Phenanthrene	ND	0.0191	0.145	U
129-00-0	Pyrene	ND	0.0107	0.145	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07396.D Vial: 4
Acq On : 11 Oct 2018 14:58 Operator: GCH
Sample : 8100452-10 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:02 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Thu Oct 11 15:59:28 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	137601	40.00	ug/kg	0.00
21) Naphthalene-d8	7.54	136	525512	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.31	164	279789	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	528787	40.00	ug/kg	0.00
75) Chrysene-d12	13.67	240	578999	40.00	ug/kg	0.00
84) Perylene-d12	15.75	264	603659	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.97	112	263114	68.82	ug/kg	-0.03
Spiked Amount 100.000	Range 18 - 82		Recovery = 68.82%			
7) Phenol-d6	5.87	99	301119	66.55	ug/kg	0.00
Spiked Amount 100.000	Range 20 - 88		Recovery = 66.55%			
22) Nitrobenzene-d5	6.81	82	139038	39.19	ug/kg	-0.03
Spiked Amount 50.000	Range 27 - 100		Recovery = 78.38%			
43) 2-Fluorobiphenyl	8.61	172	357978	32.35	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 105		Recovery = 64.70%			
65) 2,4,6-Tribromophenol	10.10	330	116012	74.23	ug/kg	-0.01
Spiked Amount 100.000	Range 24 - 115		Recovery = 74.23%			
78) p-Terphenyl-d14	12.40	244	524654	36.41	ug/kg	0.01
Spiked Amount 50.000	Range 29 - 110		Recovery = 72.82%			

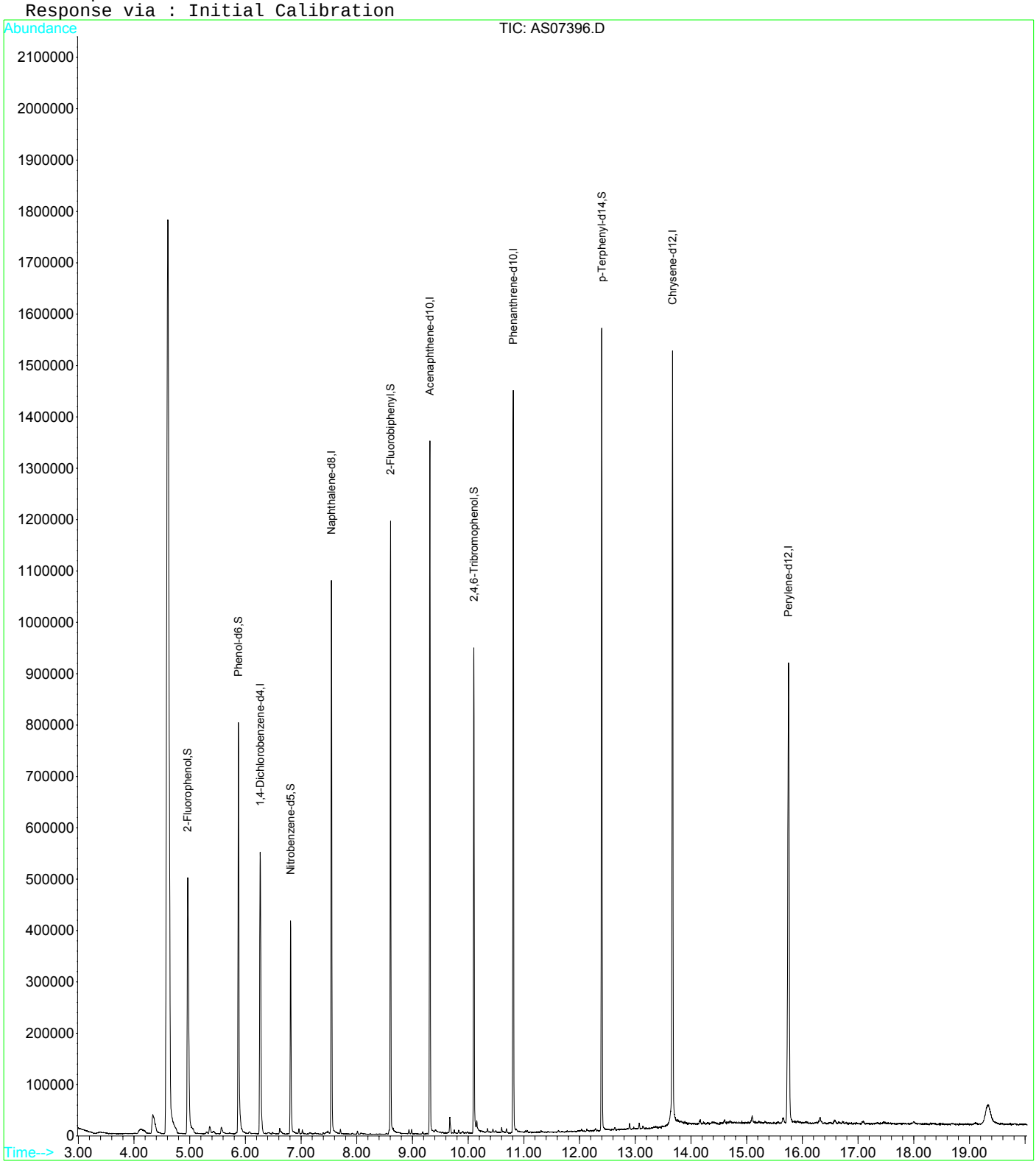
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
AS07396.D 0824ABN.M Fri Oct 12 15:11:52 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07396.D Vial: 4
Acq On : 11 Oct 2018 14:58 Operator: GCH
Sample : 8100452-10 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:02 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



AS07396.D 0824ABN.M Fri Oct 12 15:11:52 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07397.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	90.63	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.122	0.221	U
91-57-6	2-Methylnaphthalene	ND	0.0352	0.221	U
83-32-9	Acenaphthene	ND	0.00837	0.147	U
208-96-8	Acenaphthylene	ND	0.00511	0.147	U
120-12-7	Anthracene	ND	0.0213	0.147	U
56-55-3	Benzo(a)anthracene	ND	0.0148	0.147	U
50-32-8	Benzo(a)pyrene	ND	0.0256	0.147	U
205-99-2	Benzo(b)fluoranthene	ND	0.0206	0.147	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0119	0.147	U
207-08-9	Benzo(k)fluoranthene	ND	0.0169	0.147	U
218-01-9	Chrysene	ND	0.0101	0.147	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0146	0.147	U
206-44-0	Fluoranthene	ND	0.0138	0.147	U
86-73-7	Fluorene	ND	0.0122	0.147	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0158	0.147	U
91-20-3	Naphthalene	ND	0.0109	0.147	U
85-01-8	Phenanthrene	ND	0.0193	0.147	U
129-00-0	Pyrene	ND	0.0108	0.147	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07397.D Vial: 5
Acq On : 11 Oct 2018 15:28 Operator: GCH
Sample : 8100452-11 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:03 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Thu Oct 11 15:59:28 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	144157	40.00	ug/kg	0.00
21) Naphthalene-d8	7.54	136	544435	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.31	164	292101	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	558645	40.00	ug/kg	0.00
75) Chrysene-d12	13.67	240	606407	40.00	ug/kg	0.00
84) Perylene-d12	15.75	264	627427	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.97	112	239574	59.81	ug/kg	-0.03
Spiked Amount 100.000	Range 18 - 82		Recovery = 59.81%			
7) Phenol-d6	5.88	99	286179	60.38	ug/kg	0.01
Spiked Amount 100.000	Range 20 - 88		Recovery = 60.38%			
22) Nitrobenzene-d5	6.81	82	129974	35.36	ug/kg	-0.03
Spiked Amount 50.000	Range 27 - 100		Recovery = 70.72%			
43) 2-Fluorobiphenyl	8.61	172	331539	28.69	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 105		Recovery = 57.38%			
65) 2,4,6-Tribromophenol	10.10	330	105023	65.04	ug/kg	-0.01
Spiked Amount 100.000	Range 24 - 115		Recovery = 65.04%			
78) p-Terphenyl-d14	12.40	244	457486	30.32	ug/kg	0.01
Spiked Amount 50.000	Range 29 - 110		Recovery = 60.64%			

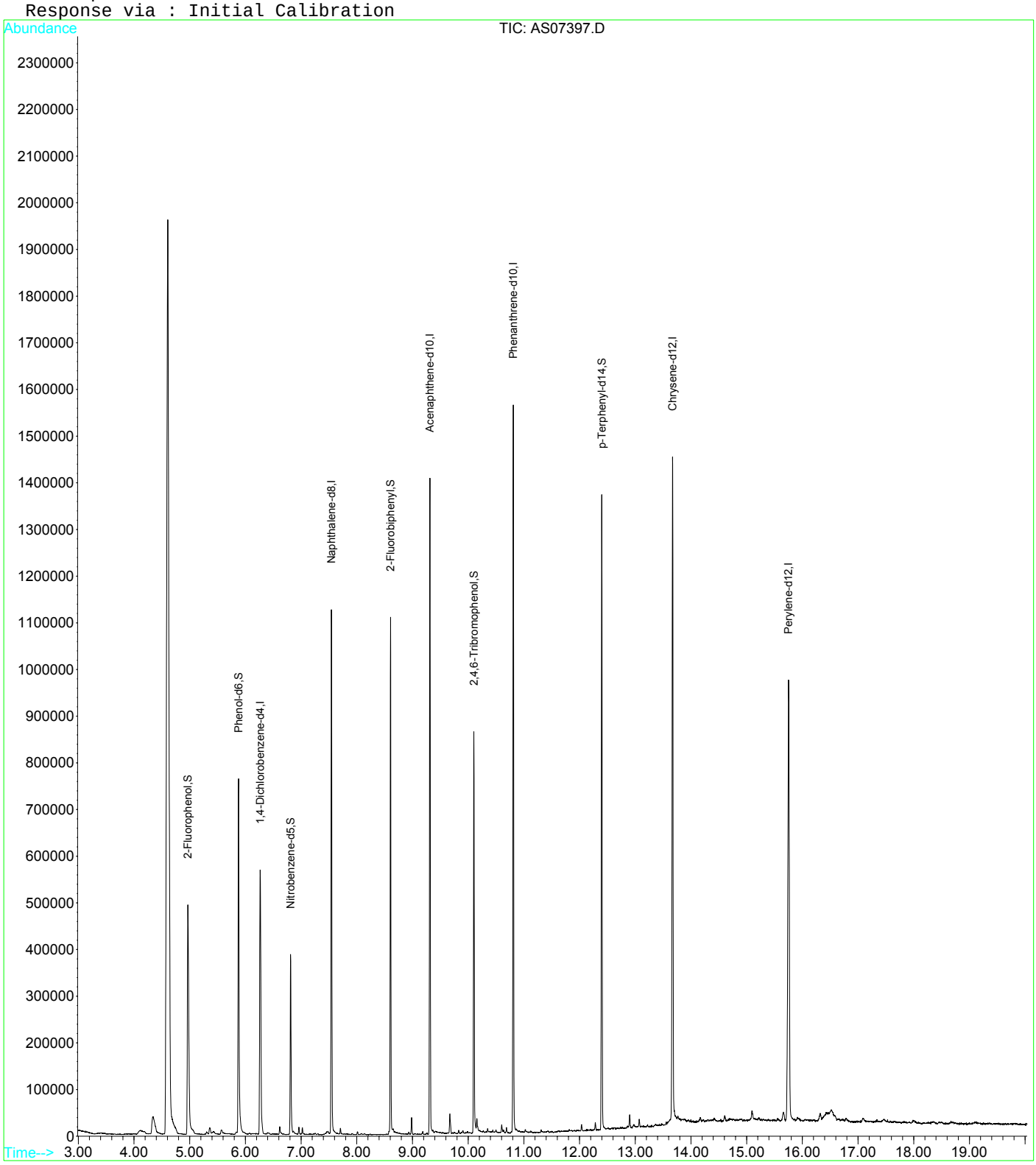
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
AS07397.D 0824ABN.M Fri Oct 12 15:11:54 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07397.D Vial: 5
Acq On : 11 Oct 2018 15:28 Operator: GCH
Sample : 8100452-11 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:03 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



AS07397.D 0824ABN.M Fri Oct 12 15:11:55 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07398.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	91.70	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.0348	0.218	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.0224	0.145	U
95-95-4	2,4,5-Trichlorophenol	ND	0.0197	0.145	U
88-06-2	2,4,6-Trichlorophenol	ND	0.00908	0.145	U
120-83-2	2,4-Dichlorophenol	ND	0.0146	0.145	U
105-67-9	2,4-Dimethylphenol	ND	0.0143	0.145	U
51-28-5	2,4-Dinitrophenol	ND	0.0209	0.727	U
121-14-2	2,4-Dinitrotoluene	ND	0.0155	0.145	U
606-20-2	2,6-Dinitrotoluene	ND	0.0347	0.145	U
91-58-7	2-Chloronaphthalene	ND	0.0167	0.145	U
95-57-8	2-Chlorophenol	ND	0.0192	0.145	U
91-57-6	2-Methylnaphthalene	ND	0.0348	0.218	U
95-48-7	2-Methylphenol	ND	0.0287	0.145	U
88-74-4	2-Nitroaniline	ND	0.0117	0.145	U
88-75-5	2-Nitrophenol	ND	0.0161	0.145	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.0153	0.145	U
106-44-5	3+4-Methylphenol	ND	0.0266	0.145	U
99-09-2	3-Nitroaniline	ND	0.0269	0.145	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.0274	0.363	U
101-55-3	4-Bromophenyl-phenyl ether	ND	0.0207	0.145	U
59-50-7	4-Chloro-3-methylphenol	ND	0.0229	0.145	U
106-47-8	4-Chloroaniline	ND	0.00508	0.145	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.00784	0.145	U
100-01-6	4-Nitroaniline	ND	0.0726	0.145	U
100-02-7	4-Nitrophenol	ND	0.00929	0.145	U
83-32-9	Acenaphthene	ND	0.00828	0.145	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07398.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	91.70	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
208-96-8	Acenaphthylene	ND	0.00505	0.145	U
98-86-2	Acetophenone	ND	0.0144	0.145	U
120-12-7	Anthracene	ND	0.0210	0.145	U
1912-24-9	Atrazine	ND	0.0136	0.145	U
100-52-7	Benzaldehyde	ND	0.0446	0.145	U
56-55-3	Benzo(a)anthracene	ND	0.0146	0.145	U
50-32-8	Benzo(a)pyrene	ND	0.0253	0.145	U
205-99-2	Benzo(b)fluoranthene	ND	0.0204	0.145	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0118	0.145	U
207-08-9	Benzo(k)fluoranthene	ND	0.0167	0.145	U
92-52-4	Biphenyl	ND	0.0128	0.145	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.0201	0.145	U
111-44-4	bis(2-chloroethyl)ether	ND	0.0159	0.145	U
108-60-1	bis(2-chloroisopropyl)ether	ND	0.0522	0.145	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	0.0290	0.145	U
85-68-7	Butylbenzylphthalate	ND	0.0132	0.145	U
105-60-2	Caprolactam	ND	0.0188	0.145	U
86-74-8	Carbazole	ND	0.0279	0.363	U
218-01-9	Chrysene	ND	0.00995	0.145	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0144	0.145	U
132-64-9	Dibenzofuran	ND	0.00865	0.145	U
84-66-2	Diethylphthalate	ND	0.0281	0.145	U
131-11-3	Dimethylphthalate	0.0632	0.00901	0.145	J
84-74-2	Di-n-butylphthalate	ND	0.0593	0.145	U
117-84-0	Di-n-octylphthalate	ND	0.0298	0.145	U
206-44-0	Fluoranthene	ND	0.0136	0.145	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07398.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	91.70	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
86-73-7	Fluorene	ND	0.0121	0.145	U
118-74-1	Hexachlorobenzene	ND	0.0190	0.145	U
87-68-3	Hexachlorobutadiene	ND	0.0697	0.145	U
77-47-4	Hexachlorocyclopentadiene	ND	0.0605	0.363	U
67-72-1	Hexachloroethane	ND	0.0159	0.145	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0156	0.145	U
78-59-1	Isophorone	ND	0.00951	0.145	U
91-20-3	Naphthalene	ND	0.0108	0.145	U
98-95-3	Nitrobenzene	ND	0.0246	0.145	U
621-64-7	n-Nitroso-di-n-propylamine	ND	0.00778	0.145	U
86-30-6	n-Nitrosodiphenylamine	ND	0.0310	0.145	U
85-01-8	Phenanthrene	ND	0.0191	0.145	U
108-95-2	Phenol	ND	0.0118	0.145	U
129-00-0	Pyrene	ND	0.0107	0.145	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07398.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 15:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	91.70	Prep Method:	Sonication MS		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07398.D Vial: 6
Acq On : 11 Oct 2018 15:57 Operator: GCH
Sample : 8100452-12 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:58 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

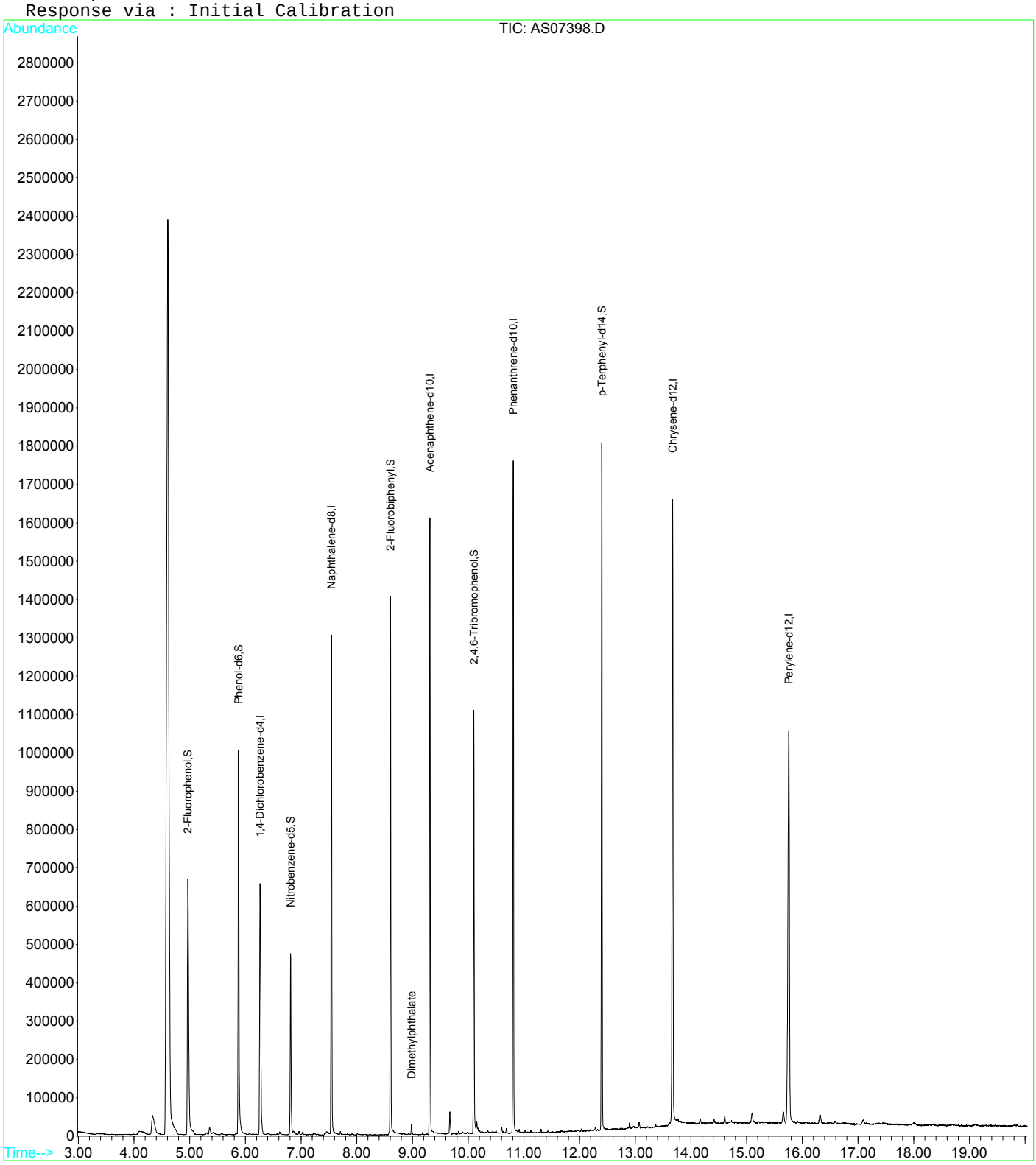
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.26	152	160040	40.00	ug/kg	0.00
21) Naphthalene-d8	7.54	136	621406	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.31	164	331206	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	635462	40.00	ug/kg	0.00
75) Chrysene-d12	13.67	240	691875	40.00	ug/kg	0.00
84) Perylene-d12	15.76	264	723702	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.97	112	300876	67.66	ug/kg	-0.03
Spiked Amount 100.000	Range 18 - 82		Recovery = 67.66%			
7) Phenol-d6	5.88	99	360028	68.42	ug/kg	0.01
Spiked Amount 100.000	Range 20 - 88		Recovery = 68.42%			
22) Nitrobenzene-d5	6.81	82	160092	38.16	ug/kg	-0.03
Spiked Amount 50.000	Range 27 - 100		Recovery = 76.32%			
43) 2-Fluorobiphenyl	8.61	172	418240	31.92	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 105		Recovery = 63.84%			
65) 2,4,6-Tribromophenol	10.10	330	133633	71.60	ug/kg	-0.01
Spiked Amount 100.000	Range 24 - 115		Recovery = 71.60%			
78) p-Terphenyl-d14	12.40	244	588569	34.18	ug/kg	0.01
Spiked Amount 50.000	Range 29 - 110		Recovery = 68.36%			
Target Compounds						Qvalue
47) Dimethylphthalate	8.98	163	10534	0.87	ug/kg	99

(#) = qualifier out of range (m) = manual integration
AS07398.D 0824ABN.M Fri Oct 12 15:11:57 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07398.D Vial: 6
Acq On : 11 Oct 2018 15:57 Operator: GCH
Sample : 8100452-12 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:58 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



AS07398.D 0824ABN.M Fri Oct 12 15:11:57 2018 SS Page 2

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-5**
Lab Sample ID: **8100452-13**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07399.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:27
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	92.63	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.120	0.216	U
91-57-6	2-Methylnaphthalene	ND	0.0344	0.216	U
83-32-9	Acenaphthene	ND	0.00819	0.144	U
208-96-8	Acenaphthylene	ND	0.00500	0.144	U
120-12-7	Anthracene	ND	0.0208	0.144	U
56-55-3	Benzo(a)anthracene	ND	0.0145	0.144	U
50-32-8	Benzo(a)pyrene	ND	0.0250	0.144	U
205-99-2	Benzo(b)fluoranthene	ND	0.0202	0.144	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0117	0.144	U
207-08-9	Benzo(k)fluoranthene	ND	0.0165	0.144	U
218-01-9	Chrysene	ND	0.00985	0.144	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0142	0.144	U
206-44-0	Fluoranthene	ND	0.0135	0.144	U
86-73-7	Fluorene	ND	0.0120	0.144	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0154	0.144	U
91-20-3	Naphthalene	ND	0.0106	0.144	U
85-01-8	Phenanthrene	ND	0.0189	0.144	U
129-00-0	Pyrene	ND	0.0106	0.144	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07399.D Vial: 7
Acq On : 11 Oct 2018 16:27 Operator: GCH
Sample : 8100452-13 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:58 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	144929	40.00	ug/kg	0.00
21) Naphthalene-d8	7.54	136	551744	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.31	164	296526	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	563939	40.00	ug/kg	0.00
75) Chrysene-d12	13.67	240	621689	40.00	ug/kg	0.00
84) Perylene-d12	15.75	264	638170	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.97	112	237168	58.90	ug/kg	-0.03
Spiked Amount 100.000	Range 18 - 82		Recovery = 58.90%			
7) Phenol-d6	5.88	99	278926	58.53	ug/kg	0.01
Spiked Amount 100.000	Range 20 - 88		Recovery = 58.53%			
22) Nitrobenzene-d5	6.81	82	128849	34.59	ug/kg	-0.03
Spiked Amount 50.000	Range 27 - 100		Recovery = 69.18%			
43) 2-Fluorobiphenyl	8.61	172	327959	27.96	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 105		Recovery = 55.92%			
65) 2,4,6-Tribromophenol	10.10	330	103360	63.63	ug/kg	-0.01
Spiked Amount 100.000	Range 24 - 115		Recovery = 63.63%			
78) p-Terphenyl-d14	12.40	244	463219	29.94	ug/kg	0.01
Spiked Amount 50.000	Range 29 - 110		Recovery = 59.88%			

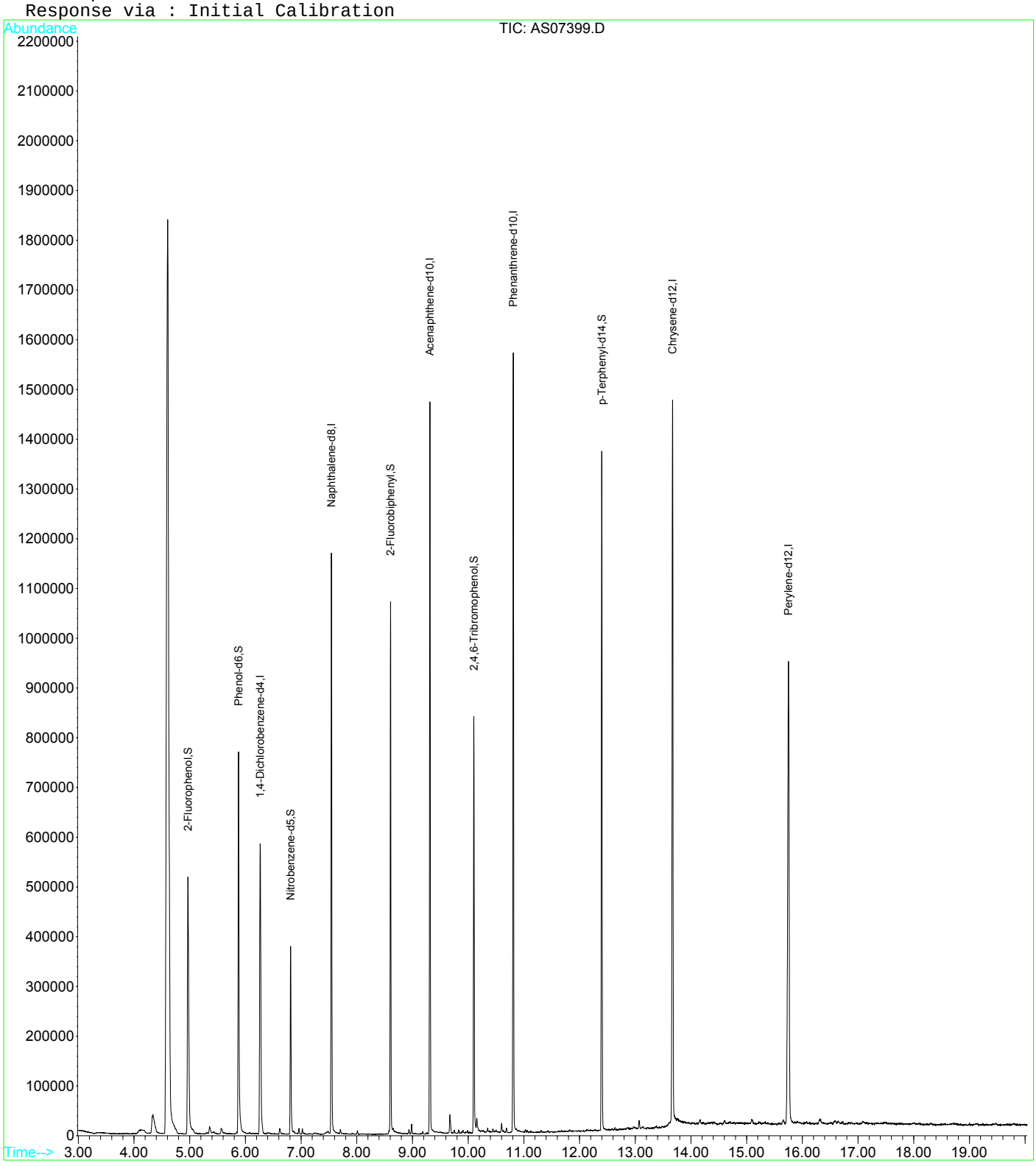
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
AS07399.D 0824ABN.M Fri Oct 12 15:11:59 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07399.D Vial: 7
Acq On : 11 Oct 2018 16:27 Operator: GCH
Sample : 8100452-13 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 16:58 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



AS07399.D 0824ABN.M Fri Oct 12 15:11:59 2018 SS Page 2

14 14.2.

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07400.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	92.94	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
90-12-0	1-Methylnaphthalene	ND	0.0343	0.215	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.0221	0.143	U
95-95-4	2,4,5-Trichlorophenol	ND	0.0195	0.143	U
88-06-2	2,4,6-Trichlorophenol	ND	0.00896	0.143	U
120-83-2	2,4-Dichlorophenol	ND	0.0144	0.143	U
105-67-9	2,4-Dimethylphenol	ND	0.0141	0.143	U
51-28-5	2,4-Dinitrophenol	ND	0.0207	0.718	U
121-14-2	2,4-Dinitrotoluene	ND	0.0153	0.143	U
606-20-2	2,6-Dinitrotoluene	ND	0.0342	0.143	U
91-58-7	2-Chloronaphthalene	ND	0.0165	0.143	U
95-57-8	2-Chlorophenol	ND	0.0189	0.143	U
91-57-6	2-Methylnaphthalene	ND	0.0343	0.215	U
95-48-7	2-Methylphenol	ND	0.0283	0.143	U
88-74-4	2-Nitroaniline	ND	0.0115	0.143	U
88-75-5	2-Nitrophenol	ND	0.0159	0.143	U
91-94-1	3,3'-Dichlorobenzidine	ND	0.0151	0.143	U
106-44-5	3+4-Methylphenol	ND	0.0263	0.143	U
99-09-2	3-Nitroaniline	ND	0.0266	0.143	U
534-52-1	4,6-Dinitro-2-methylphenol	ND	0.0270	0.358	U
101-55-3	4-Bromophenyl-phenyl ether	ND	0.0204	0.143	U
59-50-7	4-Chloro-3-methylphenol	ND	0.0226	0.143	U
106-47-8	4-Chloroaniline	ND	0.00501	0.143	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.00774	0.143	U
100-01-6	4-Nitroaniline	ND	0.0717	0.143	U
100-02-7	4-Nitrophenol	ND	0.00917	0.143	U
83-32-9	Acenaphthene	ND	0.00817	0.143	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07400.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	92.94	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
208-96-8	Acenaphthylene	ND	0.00498	0.143	U
98-86-2	Acetophenone	ND	0.0142	0.143	U
120-12-7	Anthracene	ND	0.0208	0.143	U
1912-24-9	Atrazine	ND	0.0135	0.143	U
100-52-7	Benzaldehyde	ND	0.0440	0.143	U
56-55-3	Benzo(a)anthracene	ND	0.0144	0.143	U
50-32-8	Benzo(a)pyrene	ND	0.0250	0.143	U
205-99-2	Benzo(b)fluoranthene	ND	0.0201	0.143	U
191-24-2	Benzo(g,h,i)perylene	ND	0.0116	0.143	U
207-08-9	Benzo(k)fluoranthene	ND	0.0165	0.143	U
92-52-4	Biphenyl	ND	0.0126	0.143	U
111-91-1	bis(2-chloroethoxy)methane	ND	0.0198	0.143	U
111-44-4	bis(2-chloroethyl)ether	ND	0.0157	0.143	U
108-60-1	bis(2-chloroisopropyl)ether	ND	0.0515	0.143	U
117-81-7	bis(2-ethylhexyl)phthalate	ND	0.0286	0.143	U
85-68-7	Butylbenzylphthalate	ND	0.0130	0.143	U
105-60-2	Caprolactam	ND	0.0185	0.143	U
86-74-8	Carbazole	ND	0.0275	0.358	U
218-01-9	Chrysene	ND	0.00981	0.143	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.0142	0.143	U
132-64-9	Dibenzofuran	ND	0.00853	0.143	U
84-66-2	Diethylphthalate	ND	0.0278	0.143	U
131-11-3	Dimethylphthalate	ND	0.00889	0.143	U
84-74-2	Di-n-butylphthalate	ND	0.0585	0.143	U
117-84-0	Di-n-octylphthalate	ND	0.0294	0.143	U
206-44-0	Fluoranthene	ND	0.0135	0.143	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07400.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	92.94	Prep Method:	Sonication MS		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
86-73-7	Fluorene	ND	0.0119	0.143	U
118-74-1	Hexachlorobenzene	ND	0.0187	0.143	U
87-68-3	Hexachlorobutadiene	ND	0.0688	0.143	U
77-47-4	Hexachlorocyclopentadiene	ND	0.0597	0.358	U
67-72-1	Hexachloroethane	ND	0.0157	0.143	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0154	0.143	U
78-59-1	Isophorone	ND	0.00938	0.143	U
91-20-3	Naphthalene	ND	0.0106	0.143	U
98-95-3	Nitrobenzene	ND	0.0243	0.143	U
621-64-7	n-Nitroso-di-n-propylamine	ND	0.00767	0.143	U
86-30-6	n-Nitrosodiphenylamine	ND	0.0306	0.143	U
85-01-8	Phenanthrene	ND	0.0188	0.143	U
108-95-2	Phenol	ND	0.0116	0.143	U
129-00-0	Pyrene	ND	0.0105	0.143	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Semivolatile Organics - GC/MS - SW 846 8270D

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/11/18 08:03	File ID:	AS07400.D
Init/Final Vol:	15 g / 1 mL	Prep Batch:	B8J1101	Analyzed:	10/11/18 16:57
Dilution:	1	Matrix:	Soil	Sequence:	S8J1212
Percent Solids:	92.94	Prep Method:	Sonication MS		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07400.D Vial: 8
Acq On : 11 Oct 2018 16:57 Operator: GCH
Sample : 8100452-14 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 17:22 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	139395	40.00	ug/kg	0.00
21) Naphthalene-d8	7.54	136	542847	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.31	164	286684	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	546847	40.00	ug/kg	0.00
75) Chrysene-d12	13.67	240	598306	40.00	ug/kg	0.00
84) Perylene-d12	15.75	264	626870	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.97	112	184990	47.76	ug/kg	-0.03
Spiked Amount 100.000	Range 18 - 82		Recovery = 47.76%			
7) Phenol-d6	5.87	99	217367	47.43	ug/kg	0.00
Spiked Amount 100.000	Range 20 - 88		Recovery = 47.43%			
22) Nitrobenzene-d5	6.81	82	101420	27.67	ug/kg	-0.03
Spiked Amount 50.000	Range 27 - 100		Recovery = 55.34%			
43) 2-Fluorobiphenyl	8.61	172	263884	23.27	ug/kg	-0.02
Spiked Amount 50.000	Range 27 - 105		Recovery = 46.54%			
65) 2,4,6-Tribromophenol	10.10	330	77092	50.57	ug/kg	-0.01
Spiked Amount 100.000	Range 24 - 115		Recovery = 50.57%			
78) p-Terphenyl-d14	12.40	244	361237	24.26	ug/kg	0.00
Spiked Amount 50.000	Range 29 - 110		Recovery = 48.52%			

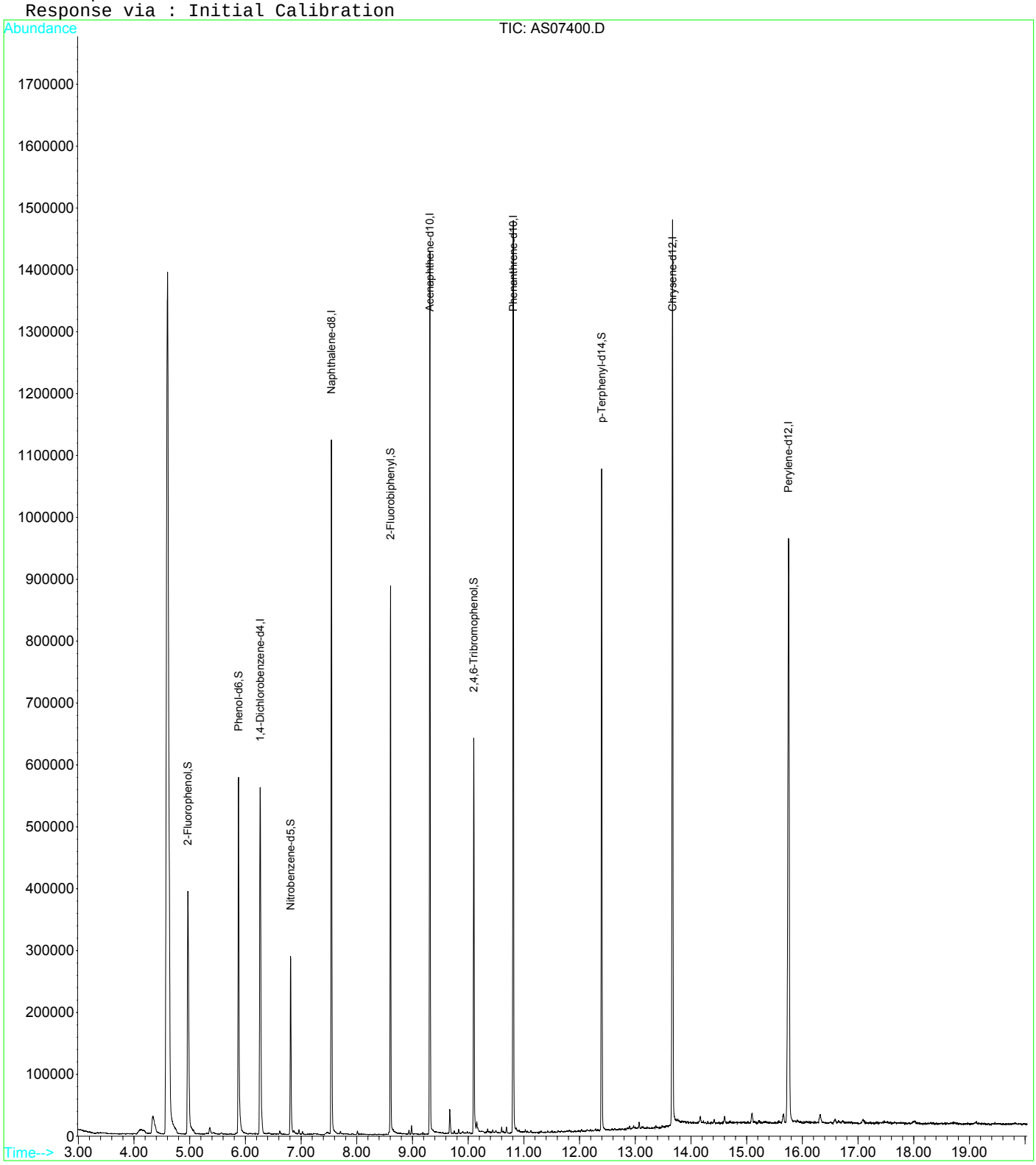
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
AS07400.D 0824ABN.M Fri Oct 12 15:12:01 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07400.D Vial: 8
Acq On : 11 Oct 2018 16:57 Operator: GCH
Sample : 8100452-14 Inst : GCMS-A
Misc : B8J1101 SOIL Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 11 17:22 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



AS07400.D 0824ABN.M Fri Oct 12 15:12:02 2018 SS Page 2

14 14.2.

SURROGATE RECOVERIES

Analysis Class: SEMIVOLATILES

Matrix: Soil **Method:** SW 846 8270D

BN-PAH

Lab Number	File ID	NBZ	FPB	TER-D14	2FP	PHN-D6	TBP
8100452-02	DS18772.D	77.1	67.5	74.8			
8100452-03	DS18773.D	77.7	74.8	80.6			
8100452-04	DS18774.D	73.7	69.6	74.0			
8100452-05	DS18775.D	71.0	68.2	74.1			
8100452-07	DS18777.D	74.6	70.2	73.5			
8100452-08	DS18778.D	76.9	77.3	80.8			
8100452-09	AS07401.D	77.0	65.1	68.1			
8100452-10	AS07396.D	78.4	64.7	72.8			
8100452-11	AS07397.D	70.7	57.4	60.6			
8100452-13	AS07399.D	69.2	55.9	59.9			
B8J1101-BLK1	DS18769.D	81.0	76.3	81.9			
B8J1101-BS1	DS18770.D	87.6	83.0	90.3			
B8J1101-MS1	DS18779.D	51.6	51.0	55.2			
B8J1101-MSD1	DS18780.D	69.3	65.2	70.4			

BNA+25

Lab Number	File ID	NBZ	FPB	TER-D14	2FP	PHN-D6	TBP
8100452-01	DS18771.D	75.0	69.9	77.6	68.6	72.0	64.2
8100452-06	DS18776.D	64.1	60.9	70.7	61.0	64.8	55.7
8100452-12	AS07398.D	76.3	63.8	68.4	67.7	68.4	71.6
8100452-14	AS07400.D	55.3	46.5	48.5	47.8	47.4	50.6
B8J1101-BLK1	DS18769.D	81.0	76.3	81.9	76.2	78.0	68.6
B8J1101-BS1	DS18770.D	87.6	83.0	90.3	87.0*	87.9	72.0
B8J1101-MS1	DS18779.D	51.6	51.0	55.2	47.7	50.8	47.4
B8J1101-MSD1	DS18780.D	69.3	65.2	70.4	66.4	70.8	61.4

Surrogate Limits		Lo Limit	Hi Limit
NBZ	Nitrobenzene-d5	27.1	99.6
FPB	2-Fluorobiphenyl	26.5	105
TER-D14	p-Terphenyl-d14	28.8	110
2FP	2-Fluorophenol	18	81.6
PHN-D6	Phenol-d6	19.9	88.2
TBP	2,4,6-Tribromophenol	23.7	115

F-II

* - Outside of QC Limits

Batch B8J1101 **Method: SW 846 8270D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1101-BS1		2,3,4,6-Tetrachlorophenol	2.60	mg/kg wet	3.33		77.9	51.8-112		
B8J1101-BS1		2,4,5-Trichlorophenol	2.74	mg/kg wet	3.33		82.1	49.3-106		
B8J1101-BS1		2,4,6-Trichlorophenol	2.68	mg/kg wet	3.33		80.3	51.9-97		
B8J1101-BS1		2,4-Dichlorophenol	2.78	mg/kg wet	3.33		83.5	57.3-101		
B8J1101-BS1		2,4-Dimethylphenol	3.03	mg/kg wet	3.33		91.0*	54.1-90.3		
B8J1101-BS1		2,4-Dinitrophenol	0.854	mg/kg wet	3.33		25.6	15-109		
B8J1101-BS1		2,4-Dinitrotoluene	2.90	mg/kg wet	3.33		87.0	48.2-110		
B8J1101-BS1		2,6-Dinitrotoluene	2.74	mg/kg wet	3.33		82.3	52.3-102		
B8J1101-BS1		2-Chloronaphthalene	2.64	mg/kg wet	3.33		79.3	50.4-88.1		
B8J1101-BS1		2-Chlorophenol	2.87	mg/kg wet	3.33		86.1	50.4-90.6		
B8J1101-BS1		2-Methylnaphthalene	2.74	mg/kg wet	3.33		82.1	58.8-99.1		
B8J1101-BS1		2-Methylphenol	3.00	mg/kg wet	3.33		90.1*	53.3-89.3		
B8J1101-BS1		2-Nitroaniline	3.01	mg/kg wet	3.33		90.2	53.6-103		
B8J1101-BS1		2-Nitrophenol	2.69	mg/kg wet	3.33		80.8	47.4-90.4		
B8J1101-BS1		3,3'-Dichlorobenzidine	2.32	mg/kg wet	3.33		69.5	27.7-175		
B8J1101-BS1		3+4-Methylphenol	2.92	mg/kg wet	3.33		87.7	48.9-90.5		
B8J1101-BS1		3-Nitroaniline	2.83	mg/kg wet	3.33		85.0	55.6-113		
B8J1101-BS1		4,6-Dinitro-2-methylphenol	1.60	mg/kg wet	3.33		47.9	24.4-112		
B8J1101-BS1		4-Bromophenyl-phenyl ether	2.79	mg/kg wet	3.33		83.6	54.7-102		
B8J1101-BS1		4-Chloro-3-methylphenol	3.04	mg/kg wet	3.33		91.2	54-102		
B8J1101-BS1		4-Chloroaniline	2.58	mg/kg wet	3.33		77.5	15-163		
B8J1101-BS1		4-Chlorophenyl phenyl ether	2.65	mg/kg wet	3.33		79.6	48.5-103		
B8J1101-BS1		4-Nitroaniline	3.11	mg/kg wet	3.33		93.3	47.3-162		
B8J1101-BS1		4-Nitrophenol	3.20	mg/kg wet	3.33		96.1	15-178		
B8J1101-BS1		Acenaphthene	2.71	mg/kg wet	3.33		81.2	52.1-88		
B8J1101-BS1		Acenaphthylene	2.70	mg/kg wet	3.33		80.9	45.6-89.2		
B8J1101-BS1		Acetophenone	2.53	mg/kg wet	3.33		75.8	44.8-81		
B8J1101-BS1		Anthracene	2.91	mg/kg wet	3.33		87.2	51.8-96.7		
B8J1101-BS1		Atrazine	2.51	mg/kg wet	3.33		75.3	34.4-161		
B8J1101-BS1		Benzaldehyde	0.0572	mg/kg wet	3.33		1.72*	15-99.5		
B8J1101-BS1		Benzo(a)anthracene	2.79	mg/kg wet	3.33		83.6	54.4-90.2		
B8J1101-BS1		Benzo(a)pyrene	2.93	mg/kg wet	3.33		87.8	56.9-99.9		
B8J1101-BS1		Benzo(b)fluoranthene	3.01	mg/kg wet	3.33		90.2	59-104		
B8J1101-BS1		Benzo(g,h,i)perylene	2.96	mg/kg wet	3.33		88.9	55.8-113		
B8J1101-BS1		Benzo(k)fluoranthene	3.02	mg/kg wet	3.33		90.6	56.8-101		
B8J1101-BS1		Biphenyl	2.91	mg/kg wet	3.33		87.2	68.5-109		
B8J1101-BS1		bis(2-chloroethoxy)methane	2.91	mg/kg wet	3.33		87.2	59.9-96		
B8J1101-BS1		bis(2-chloroethyl)ether	2.80	mg/kg wet	3.33		84.0	25.4-102		
B8J1101-BS1		bis(2-chloroisopropyl)ether	2.67	mg/kg wet	3.33		80.1	22.7-94.1		
B8J1101-BS1		bis(2-ethylhexyl)phthalate	3.14	mg/kg wet	3.33		94.2	53.2-109		
B8J1101-BS1		Butylbenzylphthalate	3.24	mg/kg wet	3.33		97.3	51-107		
B8J1101-BS1		Caprolactam	2.82	mg/kg wet	3.33		84.7	51.6-117		
B8J1101-BS1		Carbazole	2.92	mg/kg wet	3.33		87.6	26.1-122		
B8J1101-BS1		Chrysene	2.79	mg/kg wet	3.33		83.8	50.3-91.6		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL
NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1101 (cont.) **Method: SW 846 8270D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1101-BS1		Dibenzo(a,h)anthracene	2.80	mg/kg wet	3.33		84.1	52.3-109		
B8J1101-BS1		Dibenzofuran	2.76	mg/kg wet	3.33		82.8	52.4-94		
B8J1101-BS1		Diethylphthalate	2.98	mg/kg wet	3.33		89.4	50.3-93.7		
B8J1101-BS1		Dimethylphthalate	2.93	mg/kg wet	3.33		88.0	52.1-92		
B8J1101-BS1		Di-n-butylphthalate	3.00	mg/kg wet	3.33		89.9	50.2-105		
B8J1101-BS1		Di-n-octylphthalate	3.22	mg/kg wet	3.33		96.6	41.8-121		
B8J1101-BS1		Fluoranthene	2.77	mg/kg wet	3.33		83.0	54.9-92.7		
B8J1101-BS1		Fluorene	2.65	mg/kg wet	3.33		79.5	52.1-89.5		
B8J1101-BS1		Hexachlorobenzene	2.45	mg/kg wet	3.33		73.5	45.6-102		
B8J1101-BS1		Hexachlorobutadiene	2.43	mg/kg wet	3.33		72.9	39.2-104		
B8J1101-BS1		Hexachlorocyclopentadiene	2.38	mg/kg wet	3.33		71.5	37.5-94.3		
B8J1101-BS1		Hexachloroethane	2.71	mg/kg wet	3.33		81.3	49.3-83.4		
B8J1101-BS1		Indeno(1,2,3-cd)pyrene	2.94	mg/kg wet	3.33		88.2	49.7-115		
B8J1101-BS1		Isophorone	3.44	mg/kg wet	3.33		103*	63.1-100		
B8J1101-BS1		Naphthalene	2.53	mg/kg wet	3.33		75.8	49-85.3		
B8J1101-BS1		Nitrobenzene	2.86	mg/kg wet	3.33		85.9	51.4-89.6		
B8J1101-BS1		n-Nitroso-di-n-propylamine	2.96	mg/kg wet	3.33		88.8	47.3-94		
B8J1101-BS1		n-Nitrosodiphenylamine	2.95	mg/kg wet	3.33		88.4	56.4-106		
B8J1101-BS1		Pentachlorophenol	1.42	mg/kg wet	3.33		42.5	15-116		
B8J1101-BS1		Phenanthrene	2.90	mg/kg wet	3.33		86.9	51.6-93.8		
B8J1101-BS1		Phenol	3.21	mg/kg wet	3.33		96.4*	42.3-86.3		
B8J1101-BS1		Pyrene	2.93	mg/kg wet	3.33		87.9	46.5-96.7		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1101 (cont.) **Method: SW 846 8270D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1101-MS1	8100452-01	2,3,4,6-Tetrachlorophenol	1.47	mg/kg dry	3.71	ND	39.7	31.5-156		
B8J1101-MS1	8100452-01	2,4,5-Trichlorophenol	1.78	mg/kg dry	3.71	ND	47.9	39.1-118		
B8J1101-MS1	8100452-01	2,4,6-Trichlorophenol	1.74	mg/kg dry	3.71	ND	46.9	40.4-117		
B8J1101-MS1	8100452-01	2,4-Dichlorophenol	1.77	mg/kg dry	3.71	ND	47.7	36.4-101		
B8J1101-MS1	8100452-01	2,4-Dimethylphenol	2.07	mg/kg dry	3.71	ND	55.8	36.2-114		
B8J1101-MS1	8100452-01	2,4-Dinitrophenol	0.141	mg/kg dry	3.71	ND	3.79*	15-63		
B8J1101-MS1	8100452-01	2,4-Dinitrotoluene	2.02	mg/kg dry	3.71	ND	54.6	32.9-118		
B8J1101-MS1	8100452-01	2,6-Dinitrotoluene	1.88	mg/kg dry	3.71	ND	50.7	33.3-121		
B8J1101-MS1	8100452-01	2-Chloronaphthalene	1.75	mg/kg dry	3.71	ND	47.1	39-96.6		
B8J1101-MS1	8100452-01	2-Chlorophenol	1.68	mg/kg dry	3.71	ND	45.2	37-105		
B8J1101-MS1	8100452-01	2-Methylnaphthalene	1.86	mg/kg dry	3.71	ND	50.1	22.1-135		
B8J1101-MS1	8100452-01	2-Methylphenol	1.84	mg/kg dry	3.71	ND	49.6	35.8-108		
B8J1101-MS1	8100452-01	2-Nitroaniline	1.94	mg/kg dry	3.71	ND	52.4	46.6-119		
B8J1101-MS1	8100452-01	2-Nitrophenol	1.63	mg/kg dry	3.71	ND	44.1	15-102		
B8J1101-MS1	8100452-01	3,3'-Dichlorobenzidine	1.59	mg/kg dry	3.71	ND	42.9	15-168		
B8J1101-MS1	8100452-01	3+4-Methylphenol	1.80	mg/kg dry	3.71	ND	48.5	37.5-108		
B8J1101-MS1	8100452-01	3-Nitroaniline	1.91	mg/kg dry	3.71	ND	51.4*	81.4-181		
B8J1101-MS1	8100452-01	4,6-Dinitro-2-methylphenol	0.820	mg/kg dry	3.71	ND	22.1	15-80.1		
B8J1101-MS1	8100452-01	4-Bromophenyl-phenyl ether	1.86	mg/kg dry	3.71	ND	50.2	47.8-116		
B8J1101-MS1	8100452-01	4-Chloro-3-methylphenol	1.96	mg/kg dry	3.71	ND	52.8	42.5-109		
B8J1101-MS1	8100452-01	4-Chloroaniline	1.58	mg/kg dry	3.71	ND	42.5	36.6-159		
B8J1101-MS1	8100452-01	4-Chlorophenyl phenyl ether	1.79	mg/kg dry	3.71	ND	48.2	37.8-127		
B8J1101-MS1	8100452-01	4-Nitroaniline	2.23	mg/kg dry	3.71	ND	60.1*	65.5-172		
B8J1101-MS1	8100452-01	4-Nitrophenol	1.99	mg/kg dry	3.71	ND	53.7	15-149		
B8J1101-MS1	8100452-01	Acenaphthene	1.80	mg/kg dry	3.71	ND	48.5	46.5-107		
B8J1101-MS1	8100452-01	Acenaphthylene	1.83	mg/kg dry	3.71	ND	49.4	44.9-104		
B8J1101-MS1	8100452-01	Acetophenone	1.59	mg/kg dry	3.71	ND	42.9	27.2-114		
B8J1101-MS1	8100452-01	Anthracene	2.00	mg/kg dry	3.71	ND	54.0	40.6-106		
B8J1101-MS1	8100452-01	Atrazine	1.82	mg/kg dry	3.71	ND	49.1	48.9-137		
B8J1101-MS1	8100452-01	Benzaldehyde	ND	mg/kg dry	3.71	ND	*	15-187		
B8J1101-MS1	8100452-01	Benzo(a)anthracene	1.93	mg/kg dry	3.71	0.0995	49.3	46.3-117		
B8J1101-MS1	8100452-01	Benzo(a)pyrene	1.98	mg/kg dry	3.71	0.0887	51.0	40.6-131		
B8J1101-MS1	8100452-01	Benzo(b)fluoranthene	2.21	mg/kg dry	3.71	0.107	56.8	41.1-134		
B8J1101-MS1	8100452-01	Benzo(g,h,i)perylene	2.07	mg/kg dry	3.71	0.0702	53.9	15-104		
B8J1101-MS1	8100452-01	Benzo(k)fluoranthene	2.05	mg/kg dry	3.71	0.0788	53.2	41-150		
B8J1101-MS1	8100452-01	Biphenyl	1.99	mg/kg dry	3.71	ND	53.7	42.6-106		
B8J1101-MS1	8100452-01	bis(2-chloroethoxy)methane	1.87	mg/kg dry	3.71	ND	50.6	42.9-110		
B8J1101-MS1	8100452-01	bis(2-chloroethyl)ether	1.63	mg/kg dry	3.71	ND	44.0	37-110		
B8J1101-MS1	8100452-01	bis(2-chloroisopropyl)ether	1.62	mg/kg dry	3.71	ND	43.8	31-132		
B8J1101-MS1	8100452-01	bis(2-ethylhexyl)phthalate	2.24	mg/kg dry	3.71	ND	60.3	53.6-131		
B8J1101-MS1	8100452-01	Butylbenzylphthalate	2.19	mg/kg dry	3.71	ND	59.0	46.6-134		
B8J1101-MS1	8100452-01	Caprolactam	1.97	mg/kg dry	3.71	ND	53.1	38.6-126		
B8J1101-MS1	8100452-01	Carbazole	2.01	mg/kg dry	3.71	ND	54.1	53.7-153		
B8J1101-MS1	8100452-01	Chrysene	1.98	mg/kg dry	3.71	0.0909	50.9	40.5-125		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1101 (cont.) **Method: SW 846 8270D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1101-MS1	8100452-01	Dibenzo(a,h)anthracene	1.95	mg/kg dry	3.71	ND	52.5	15-109		
B8J1101-MS1	8100452-01	Dibenzofuran	1.92	mg/kg dry	3.71	ND	51.7	15-138		
B8J1101-MS1	8100452-01	Diethylphthalate	2.04	mg/kg dry	3.71	ND	54.9	40.1-132		
B8J1101-MS1	8100452-01	Dimethylphthalate	2.08	mg/kg dry	3.71	ND	56.0	32.5-112		
B8J1101-MS1	8100452-01	Di-n-butylphthalate	2.13	mg/kg dry	3.71	ND	57.5	40.1-129		
B8J1101-MS1	8100452-01	Di-n-octylphthalate	2.38	mg/kg dry	3.71	ND	64.3*	71.6-172		
B8J1101-MS1	8100452-01	Fluoranthene	1.96	mg/kg dry	3.71	0.167	48.4	43.8-116		
B8J1101-MS1	8100452-01	Fluorene	1.84	mg/kg dry	3.71	ND	49.6	43.7-110		
B8J1101-MS1	8100452-01	Hexachlorobenzene	1.71	mg/kg dry	3.71	ND	46.1	39.4-110		
B8J1101-MS1	8100452-01	Hexachlorobutadiene	1.49	mg/kg dry	3.71	ND	40.1	37.7-119		
B8J1101-MS1	8100452-01	Hexachlorocyclopentadiene	1.06	mg/kg dry	3.71	ND	28.6	15-62.9		
B8J1101-MS1	8100452-01	Hexachloroethane	1.54	mg/kg dry	3.71	ND	41.7	15-110		
B8J1101-MS1	8100452-01	Indeno(1,2,3-cd)pyrene	2.04	mg/kg dry	3.71	0.0610	53.5	15-107		
B8J1101-MS1	8100452-01	Isophorone	2.20	mg/kg dry	3.71	ND	59.3	41.2-120		
B8J1101-MS1	8100452-01	Naphthalene	1.64	mg/kg dry	3.71	ND	44.1	25.3-117		
B8J1101-MS1	8100452-01	Nitrobenzene	1.80	mg/kg dry	3.71	ND	48.4	40.1-117		
B8J1101-MS1	8100452-01	n-Nitroso-di-n-propylamine	1.78	mg/kg dry	3.71	ND	48.0	27.8-169		
B8J1101-MS1	8100452-01	n-Nitrosodiphenylamine	2.08	mg/kg dry	3.71	ND	56.0	45.4-155		
B8J1101-MS1	8100452-01	Pentachlorophenol	0.540	mg/kg dry	3.71	ND	14.6*	15-104		
B8J1101-MS1	8100452-01	Phenanthrene	2.05	mg/kg dry	3.71	0.126	51.8	30-114		
B8J1101-MS1	8100452-01	Phenol	1.87	mg/kg dry	3.71	ND	50.5	28.3-131		
B8J1101-MS1	8100452-01	Pyrene	2.17	mg/kg dry	3.71	0.158	54.3	33.7-116		

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NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1101 (cont.) **Method: SW 846 8270D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1101-MSD1	8100452-01	2,3,4,6-Tetrachlorophenol	2.29	mg/kg dry	3.71	ND	61.8	31.5-156	43.6*	30
B8J1101-MSD1	8100452-01	2,4,5-Trichlorophenol	2.46	mg/kg dry	3.71	ND	66.2	39.1-118	32.2*	30
B8J1101-MSD1	8100452-01	2,4,6-Trichlorophenol	2.29	mg/kg dry	3.71	ND	61.7	40.4-117	27.2	30
B8J1101-MSD1	8100452-01	2,4-Dichlorophenol	2.51	mg/kg dry	3.71	ND	67.8	36.4-101	34.8*	30
B8J1101-MSD1	8100452-01	2,4-Dimethylphenol	2.80	mg/kg dry	3.71	ND	75.5	36.2-114	30.0	30
B8J1101-MSD1	8100452-01	2,4-Dinitrophenol	0.459	mg/kg dry	3.71	ND	12.4*	15-63	106*	30
B8J1101-MSD1	8100452-01	2,4-Dinitrotoluene	2.60	mg/kg dry	3.71	ND	70.2	32.9-118	25.1	30
B8J1101-MSD1	8100452-01	2,6-Dinitrotoluene	2.48	mg/kg dry	3.71	ND	66.8	33.3-121	27.4	30
B8J1101-MSD1	8100452-01	2-Chloronaphthalene	2.39	mg/kg dry	3.71	ND	64.4	39-96.6	31.1*	30
B8J1101-MSD1	8100452-01	2-Chlorophenol	2.45	mg/kg dry	3.71	ND	66.1	37-105	37.6*	30
B8J1101-MSD1	8100452-01	2-Methylnaphthalene	2.49	mg/kg dry	3.71	ND	67.1	22.1-135	29.1	30
B8J1101-MSD1	8100452-01	2-Methylphenol	2.55	mg/kg dry	3.71	ND	68.7	35.8-108	32.3*	30
B8J1101-MSD1	8100452-01	2-Nitroaniline	2.77	mg/kg dry	3.71	ND	74.7	46.6-119	35.0*	30
B8J1101-MSD1	8100452-01	2-Nitrophenol	2.47	mg/kg dry	3.71	ND	66.6	15-102	40.8*	30
B8J1101-MSD1	8100452-01	3,3'-Dichlorobenzidine	1.98	mg/kg dry	3.71	ND	53.4	15-168	21.7	30
B8J1101-MSD1	8100452-01	3+4-Methylphenol	2.54	mg/kg dry	3.71	ND	68.6	37.5-108	34.3*	30
B8J1101-MSD1	8100452-01	3-Nitroaniline	2.58	mg/kg dry	3.71	ND	69.7*	81.4-181	30.2*	30
B8J1101-MSD1	8100452-01	4,6-Dinitro-2-methylphenol	1.17	mg/kg dry	3.71	ND	31.7	15-80.1	35.6*	30
B8J1101-MSD1	8100452-01	4-Bromophenyl-phenyl ether	2.43	mg/kg dry	3.71	ND	65.7	47.8-116	26.6	30
B8J1101-MSD1	8100452-01	4-Chloro-3-methylphenol	2.68	mg/kg dry	3.71	ND	72.3	42.5-109	31.2*	30
B8J1101-MSD1	8100452-01	4-Chloroaniline	2.34	mg/kg dry	3.71	ND	63.0	36.6-159	38.8*	30
B8J1101-MSD1	8100452-01	4-Chlorophenyl phenyl ether	2.43	mg/kg dry	3.71	ND	65.6	37.8-127	30.6*	30
B8J1101-MSD1	8100452-01	4-Nitroaniline	2.94	mg/kg dry	3.71	ND	79.3	65.5-172	27.6	30
B8J1101-MSD1	8100452-01	4-Nitrophenol	2.94	mg/kg dry	3.71	ND	79.3	15-149	38.5*	30
B8J1101-MSD1	8100452-01	Acenaphthene	2.40	mg/kg dry	3.71	ND	64.9	46.5-107	28.9	30
B8J1101-MSD1	8100452-01	Acenaphthylene	2.43	mg/kg dry	3.71	ND	65.4	44.9-104	27.9	30
B8J1101-MSD1	8100452-01	Acetophenone	2.16	mg/kg dry	3.71	ND	58.3	27.2-114	30.4*	30
B8J1101-MSD1	8100452-01	Anthracene	2.61	mg/kg dry	3.71	ND	70.5	40.6-106	26.4	30
B8J1101-MSD1	8100452-01	Atrazine	2.15	mg/kg dry	3.71	ND	58.0	48.9-137	16.7	30
B8J1101-MSD1	8100452-01	Benzaldehyde	0.0485	mg/kg dry	3.71	ND	1.31*	15-187		30
B8J1101-MSD1	8100452-01	Benzo(a)anthracene	2.48	mg/kg dry	3.71	0.0995	64.2	46.3-117	25.0	30
B8J1101-MSD1	8100452-01	Benzo(a)pyrene	2.64	mg/kg dry	3.71	0.0887	68.8	40.6-131	28.6	30
B8J1101-MSD1	8100452-01	Benzo(b)fluoranthene	2.92	mg/kg dry	3.71	0.107	76.0	41.1-134	27.8	30
B8J1101-MSD1	8100452-01	Benzo(g,h,i)perylene	2.77	mg/kg dry	3.71	0.0702	72.9	15-104	29.0	30
B8J1101-MSD1	8100452-01	Benzo(k)fluoranthene	2.71	mg/kg dry	3.71	0.0788	71.0	41-150	27.7	30
B8J1101-MSD1	8100452-01	Biphenyl	2.55	mg/kg dry	3.71	ND	68.7	42.6-106	24.5	30
B8J1101-MSD1	8100452-01	bis(2-chloroethoxy)methane	2.70	mg/kg dry	3.71	ND	72.8	42.9-110	36.0*	30
B8J1101-MSD1	8100452-01	bis(2-chloroethyl)ether	2.39	mg/kg dry	3.71	ND	64.6	37-110	37.9*	30
B8J1101-MSD1	8100452-01	bis(2-chloroisopropyl)ether	2.30	mg/kg dry	3.71	ND	61.9	31-132	34.2*	30
B8J1101-MSD1	8100452-01	bis(2-ethylhexyl)phthalate	2.86	mg/kg dry	3.71	ND	77.1	53.6-131	24.4	30
B8J1101-MSD1	8100452-01	Butylbenzylphthalate	2.80	mg/kg dry	3.71	ND	75.6	46.6-134	24.6	30
B8J1101-MSD1	8100452-01	Caprolactam	2.57	mg/kg dry	3.71	ND	69.3	38.6-126	26.6	30
B8J1101-MSD1	8100452-01	Carbazole	2.58	mg/kg dry	3.71	ND	69.6	53.7-153	25.1	30
B8J1101-MSD1	8100452-01	Chrysene	2.53	mg/kg dry	3.71	0.0909	65.7	40.5-125	24.4	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1101 (cont.) **Method: SW 846 8270D** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1101-MSD1	8100452-01	Dibenzo(a,h)anthracene	2.62	mg/kg dry	3.71	ND	70.7	15-109	29.6	30
B8J1101-MSD1	8100452-01	Dibenzofuran	2.49	mg/kg dry	3.71	ND	67.2	15-138	26.1	30
B8J1101-MSD1	8100452-01	Diethylphthalate	2.70	mg/kg dry	3.71	ND	72.8	40.1-132	28.0	30
B8J1101-MSD1	8100452-01	Dimethylphthalate	2.62	mg/kg dry	3.71	ND	70.5	32.5-112	23.0	30
B8J1101-MSD1	8100452-01	Di-n-butylphthalate	2.69	mg/kg dry	3.71	ND	72.4	40.1-129	22.9	30
B8J1101-MSD1	8100452-01	Di-n-octylphthalate	3.01	mg/kg dry	3.71	ND	81.1	71.6-172	23.1	30
B8J1101-MSD1	8100452-01	Fluoranthene	2.56	mg/kg dry	3.71	0.167	64.7	43.8-116	26.6	30
B8J1101-MSD1	8100452-01	Fluorene	2.44	mg/kg dry	3.71	ND	65.8	43.7-110	28.1	30
B8J1101-MSD1	8100452-01	Hexachlorobenzene	2.25	mg/kg dry	3.71	ND	60.7	39.4-110	27.2	30
B8J1101-MSD1	8100452-01	Hexachlorobutadiene	2.19	mg/kg dry	3.71	ND	59.1	37.7-119	38.4*	30
B8J1101-MSD1	8100452-01	Hexachlorocyclopentadiene	1.60	mg/kg dry	3.71	ND	43.1	15-62.9	40.4*	30
B8J1101-MSD1	8100452-01	Hexachloroethane	2.21	mg/kg dry	3.71	ND	59.7	15-110	35.5*	30
B8J1101-MSD1	8100452-01	Indeno(1,2,3-cd)pyrene	2.69	mg/kg dry	3.71	0.0610	70.8	15-107	27.1	30
B8J1101-MSD1	8100452-01	Isophorone	3.08	mg/kg dry	3.71	ND	83.0	41.2-120	33.3*	30
B8J1101-MSD1	8100452-01	Naphthalene	2.27	mg/kg dry	3.71	ND	61.3	25.3-117	32.6*	30
B8J1101-MSD1	8100452-01	Nitrobenzene	2.55	mg/kg dry	3.71	ND	68.8	40.1-117	34.7*	30
B8J1101-MSD1	8100452-01	n-Nitroso-di-n-propylamine	2.51	mg/kg dry	3.71	ND	67.8	27.8-169	34.2*	30
B8J1101-MSD1	8100452-01	n-Nitrosodiphenylamine	2.70	mg/kg dry	3.71	ND	72.9	45.4-155	26.1	30
B8J1101-MSD1	8100452-01	Pentachlorophenol	0.801	mg/kg dry	3.71	ND	21.6	15-104	38.8*	30
B8J1101-MSD1	8100452-01	Phenanthrene	2.61	mg/kg dry	3.71	0.126	67.1	30-114	24.4	30
B8J1101-MSD1	8100452-01	Phenol	2.77	mg/kg dry	3.71	ND	74.8	28.3-131	38.8*	30
B8J1101-MSD1	8100452-01	Pyrene	2.77	mg/kg dry	3.71	0.158	70.5	33.7-116	24.3	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

METHOD BLANK SUMMARY

Batch ID: **B8J1101**

Lab Number	Sample Id	Extraction Date	Analysis Date
B8J1101-BLK1	BLK1	10/11/2018	10/11/2018 13:11
B8J1101-BS1	BS1	10/11/2018	10/11/2018 13:40
B8J1101-MS1	MS1	10/11/2018	10/11/2018 17:57
B8J1101-MSD1	MSD1	10/11/2018	10/11/2018 18:26
8100452-01	NTP-1A	10/11/2018	10/11/2018 14:10
8100452-02	NTP-2A	10/11/2018	10/11/2018 14:38
8100452-03	NTP-2B	10/11/2018	10/11/2018 15:07
8100452-04	NTP-3B	10/11/2018	10/11/2018 15:35
8100452-05	NTP-4B	10/11/2018	10/11/2018 16:04
8100452-06	NTP-6	10/11/2018	10/11/2018 16:32
8100452-07	NTP-7	10/11/2018	10/11/2018 17:01
8100452-08	STP-1B	10/11/2018	10/11/2018 17:29
8100452-09	STP-2B	10/11/2018	10/11/2018 17:26
8100452-10	STP-3B	10/11/2018	10/11/2018 14:58
8100452-11	STP-4A	10/11/2018	10/11/2018 15:28
8100452-12	STP-4B	10/11/2018	10/11/2018 15:57
8100452-13	STP-5	10/11/2018	10/11/2018 16:27
8100452-14	STP-7	10/11/2018	10/11/2018 16:57

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-D	Project:	Ridgewood
Sequence:	S8H0618		

Lab Sample ID:	**S8H0618-TUN1**	Injection Date:	08/02/2018	Injection Time:	20:15
Lab File ID:	DS17873a.D				

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	47.1	PASS
68	Less than 2% of 69	0.689	PASS
69	Less than 100% of 198	47.2	PASS
70	Less than 2% of 69	0.553	PASS
127	40 - 60% of 198	53.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.83	PASS
275	10 - 30% of 198	22	PASS
365	1 - 100% of 198	2.28	PASS
441	0.01 - 99.9% of 443	70.5	PASS
442	40 - 100% of 198	73.6	PASS
443	17 - 23% of 442	19.2	PASS

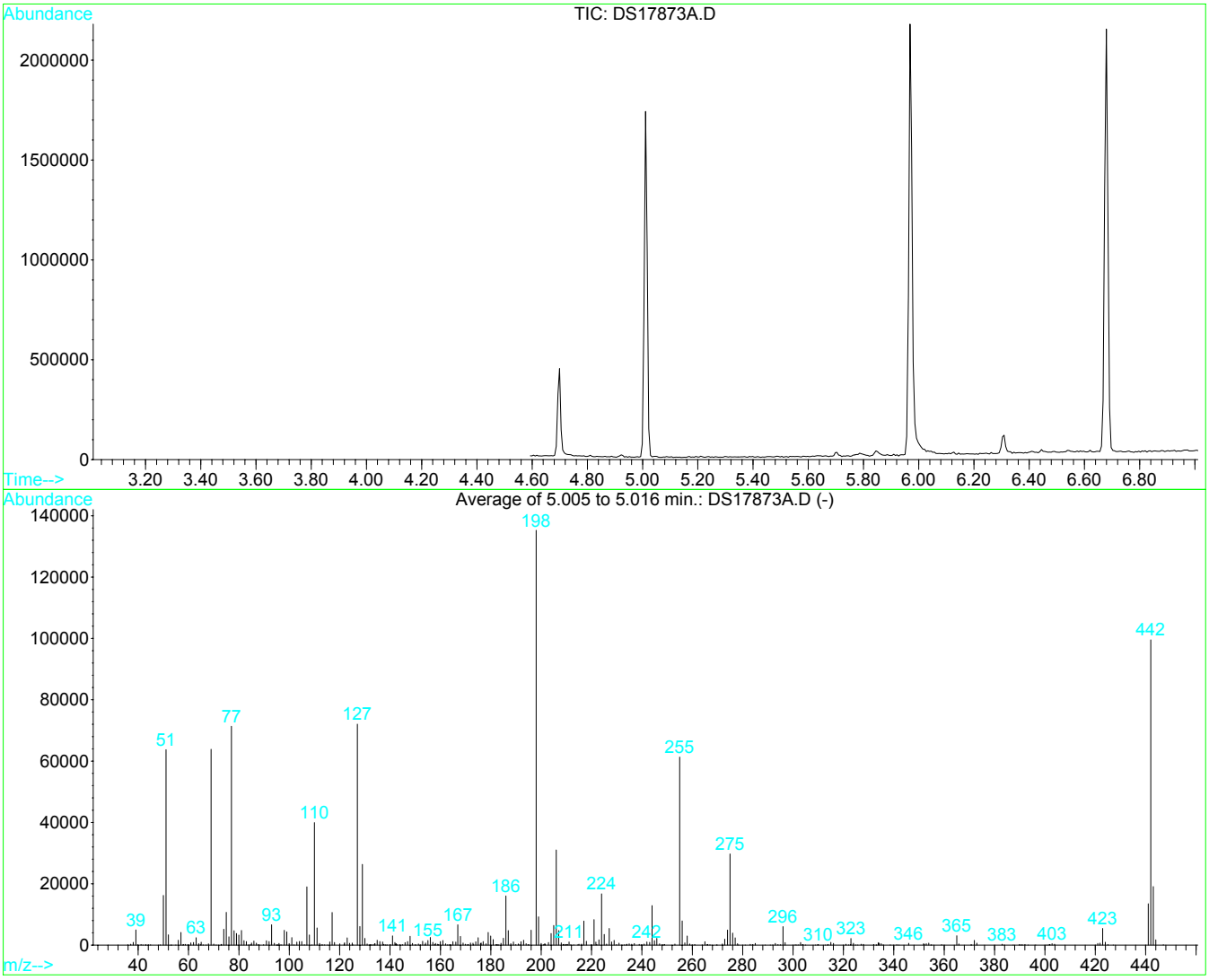
Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Cal Standard	S8H0618-CAL1	DS17875.D	08/02/2018	21:02.00
Cal Standard	S8H0618-CAL2	DS17876.D	08/02/2018	21:31.00
Cal Standard	S8H0618-CAL3	DS17877.D	08/02/2018	22:01.00
Cal Standard	S8H0618-CAL4	DS17879.D	08/02/2018	23:00.00
Cal Standard	S8H0618-CAL5	DS17880.D	08/02/2018	23:29.00
Cal Standard	S8H0618-CAL6	DS17881.D	08/02/2018	23:59.00

F-V

DFTPP

```
Data File : G:\HPCHEM\D\DATA\20180802\DS17873A.D          Vial: 2
Acq On    :  2 Aug 2018  20:15                      Operator: GCH
Sample    : SEQ-TUN                                 Inst    : GCMS-D
Misc      :                                         Multiplr: 1.00
MS Integration Params: rteint.p
Method    : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title     : BNA Extractables GC/MS 8270D
```



Spectrum Information: Average of 5.005 to 5.016 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.1	63731	PASS
68	69	0.00	2	0.7	440	PASS
69	198	0.00	100	47.2	63846	PASS
70	69	0.00	2	0.6	353	PASS
127	198	40	60	53.3	72064	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	135253	PASS
199	198	5	9	6.8	9244	PASS
275	198	10	30	22.0	29723	PASS
365	198	1	100	2.3	3084	PASS
441	443	0.01	100	70.5	13472	PASS
442	198	40	100	73.6	99555	PASS
443	442	17	23	19.2	19099	PASS

DS17873A.D 0802ABN.M Mon Aug 06 19:16:14 2018 SS

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-A	Project:	Ridgewood
Sequence:	S8H2831		

Lab Sample ID:	**S8H2831-TUN1**	Injection Date:	08/24/2018	Injection Time:	17:07
Lab File ID:	AS06906.D				

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	43.6	PASS
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	36.3	PASS
70	Less than 2% of 69	0.577	PASS
127	40 - 60% of 198	44.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.06	PASS
275	10 - 30% of 198	25.6	PASS
365	1 - 100% of 198	2.84	PASS
441	0.01 - 99.9% of 443	78.2	PASS
442	40 - 100% of 198	68.2	PASS
443	17 - 23% of 442	19.3	PASS

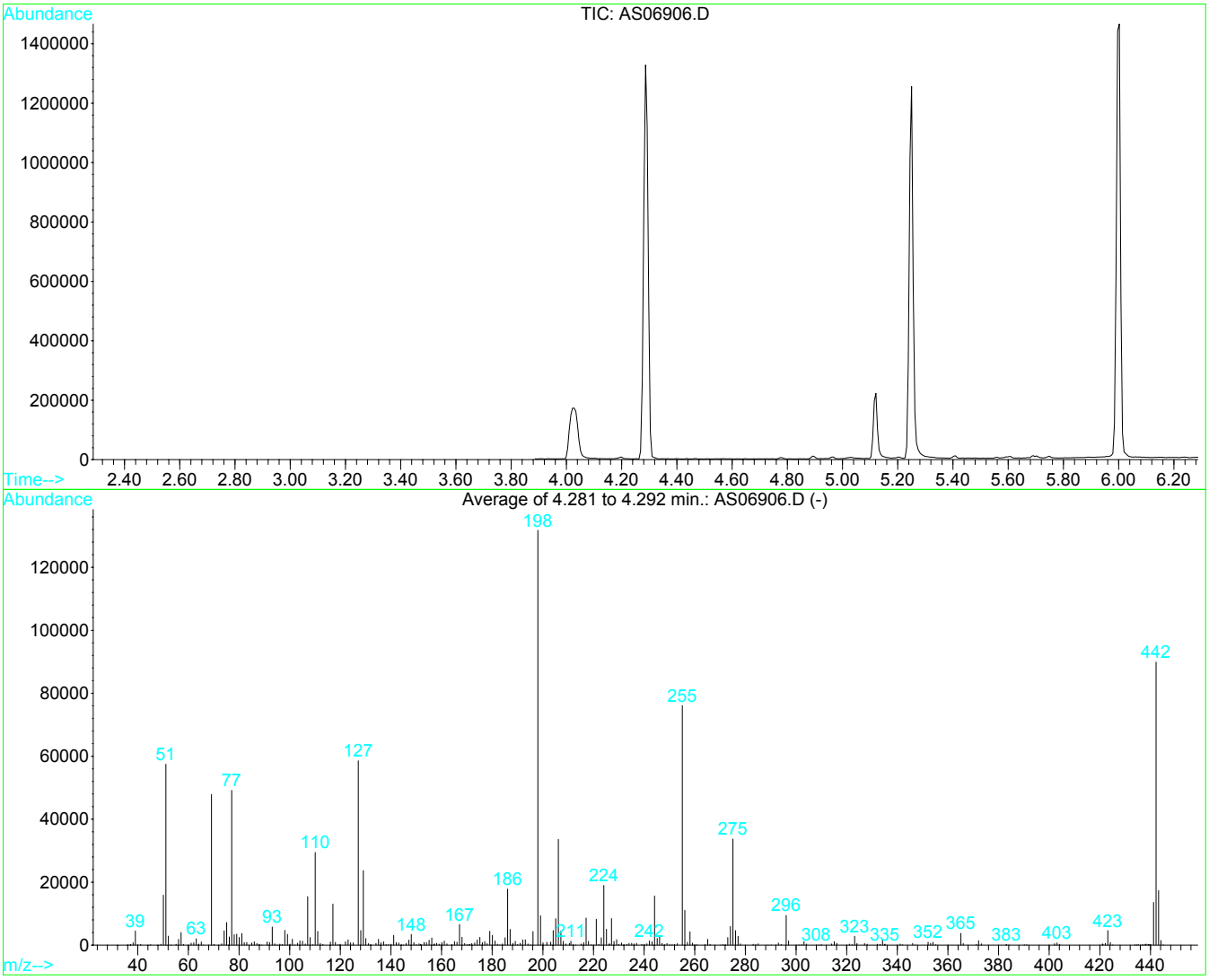
Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Cal Standard	S8H2831-CAL1	AS06908.D	08/24/2018	17:58.00
Cal Standard	S8H2831-CAL2	AS06909.D	08/24/2018	18:26.00
Cal Standard	S8H2831-CAL3	AS06911.D	08/24/2018	19:23.00
Cal Standard	S8H2831-CAL4	AS06912.D	08/24/2018	19:52.00
Cal Standard	S8H2831-CAL5	AS06913.D	08/24/2018	20:20.00
Cal Standard	S8H2831-CAL6	AS06914.D	08/24/2018	20:49.00

F-V

DFTPP

```
Data File : G:\HPCHEM\A\DATA\20180824\AS06906.D          Vial: 2
Acq On    : 24 Aug 2018  17:07                    Operator: GCH
Sample    : SEQ-TUN                               Inst    : GCMS-A
Misc      :                                       Multiplr: 1.00
MS Integration Params: RTEINT.P
Method    : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title     : BNA Extractables GC/MS 8270D
```



Spectrum Information: Average of 4.281 to 4.292 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.6	57469	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	36.3	47853	PASS
70	69	0.00	2	0.6	276	PASS
127	198	40	60	44.4	58541	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	131757	PASS
199	198	5	9	7.1	9308	PASS
275	198	10	30	25.6	33699	PASS
365	198	1	100	2.8	3748	PASS
441	443	0.01	100	78.2	13568	PASS
442	198	40	100	68.2	89917	PASS
443	442	17	23	19.3	17357	PASS

AS06906.D 0824ABN.M Tue Aug 28 18:57:50 2018 SS

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-A	Project:	Ridgewood
Sequence:	S8J1212		

Lab Sample ID:	**S8J1212-TUN1**	Injection Date:	10/11/2018	Injection Time:	14:09
Lab File ID:	AS07394.D				

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	41.1	PASS
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	35.2	PASS
70	Less than 2% of 69	0.184	PASS
127	40 - 60% of 198	43.7	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.07	PASS
275	10 - 30% of 198	26.7	PASS
365	1 - 100% of 198	2.93	PASS
441	0.01 - 99.9% of 443	75.9	PASS
442	40 - 100% of 198	66	PASS
443	17 - 23% of 442	20.3	PASS

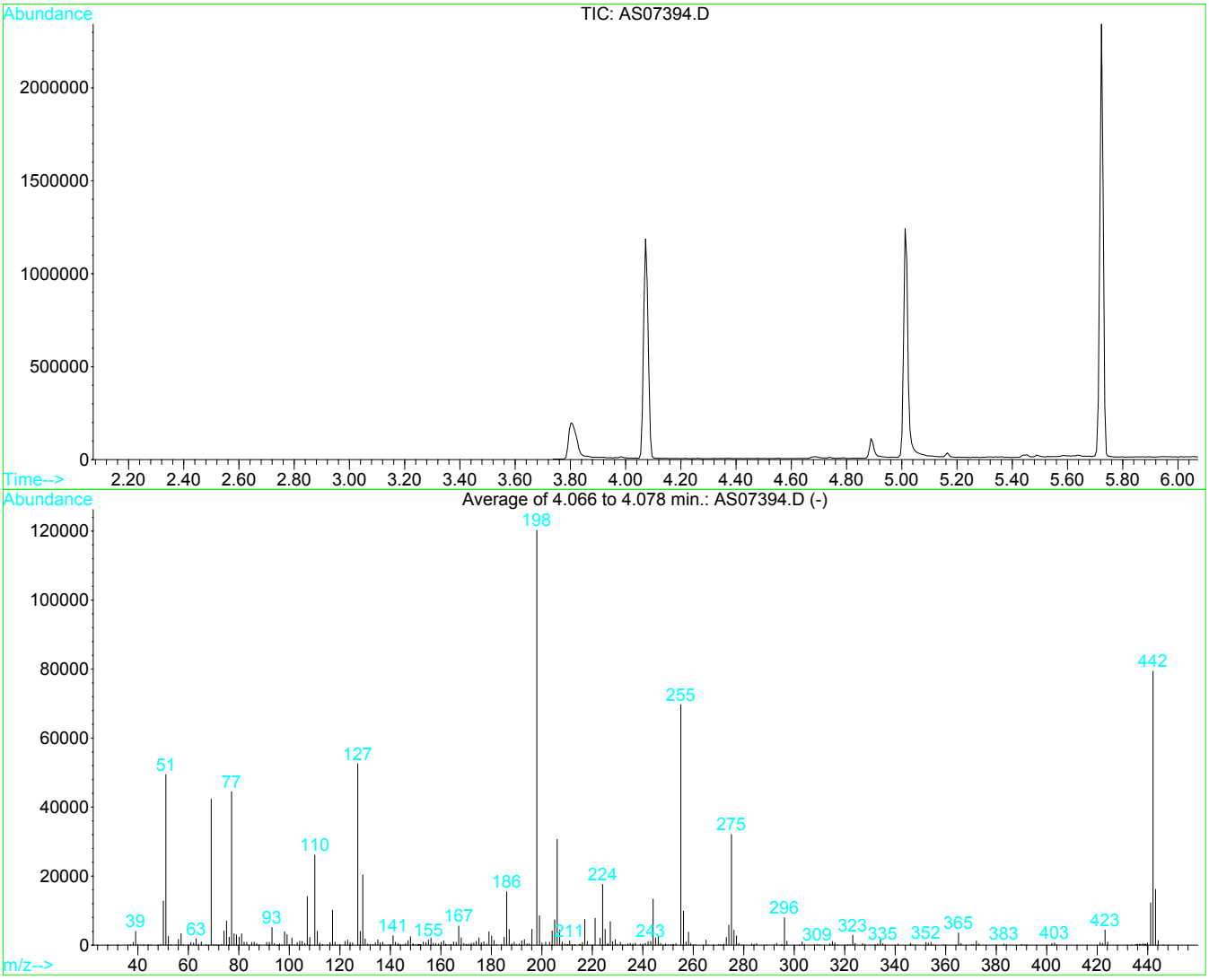
Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Calibration Check	S8J1212-CCV1	AS07395.D	10/11/2018	14:28.00
STP-3B	8100452-10	AS07396.D	10/11/2018	14:58.00
STP-4A	8100452-11	AS07397.D	10/11/2018	15:28.00
STP-4B	8100452-12	AS07398.D	10/11/2018	15:57.00
STP-5	8100452-13	AS07399.D	10/11/2018	16:27.00
STP-7	8100452-14	AS07400.D	10/11/2018	16:57.00
STP-2B	8100452-09	AS07401.D	10/11/2018	17:26.00

F-V

DFTPP

Data File : G:\HPCHEM\A\DATA\20181011\AS07394.D Vial: 2
Acq On : 11 Oct 2018 14:09 Operator: GCH
Sample : SEQ-TUN Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: LSTINT.P
Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D



Spectrum Information: Average of 4.066 to 4.078 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.1	49448	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	35.2	42314	PASS
70	69	0.00	2	0.2	78	PASS
127	198	40	60	43.7	52547	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	120232	PASS
199	198	5	9	7.1	8503	PASS
275	198	10	30	26.7	32045	PASS
365	198	1	100	2.9	3522	PASS
441	443	0.01	100	75.9	12261	PASS
442	198	40	100	66.0	79395	PASS
443	442	17	23	20.3	16148	PASS

AS07394.D 0824ABN.M Fri Oct 12 15:05:29 2018 SS

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-D	Project:	Ridgewood
Sequence:	S8J1213		

Lab Sample ID:	**S8J1213-TUN1**	Injection Date:	10/11/2018	Injection Time:	12:24
Lab File ID:	DS18767.D				

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
51	30 - 60% of 198	52.4	PASS
68	Less than 2% of 69	0.199	PASS
69	Less than 100% of 198	55.1	PASS
70	Less than 2% of 69	0.981	PASS
127	40 - 60% of 198	58.7	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.08	PASS
275	10 - 30% of 198	18.8	PASS
365	1 - 100% of 198	2.14	PASS
441	0.01 - 99.9% of 443	58.2	PASS
442	40 - 100% of 198	55.2	PASS
443	17 - 23% of 442	22	PASS

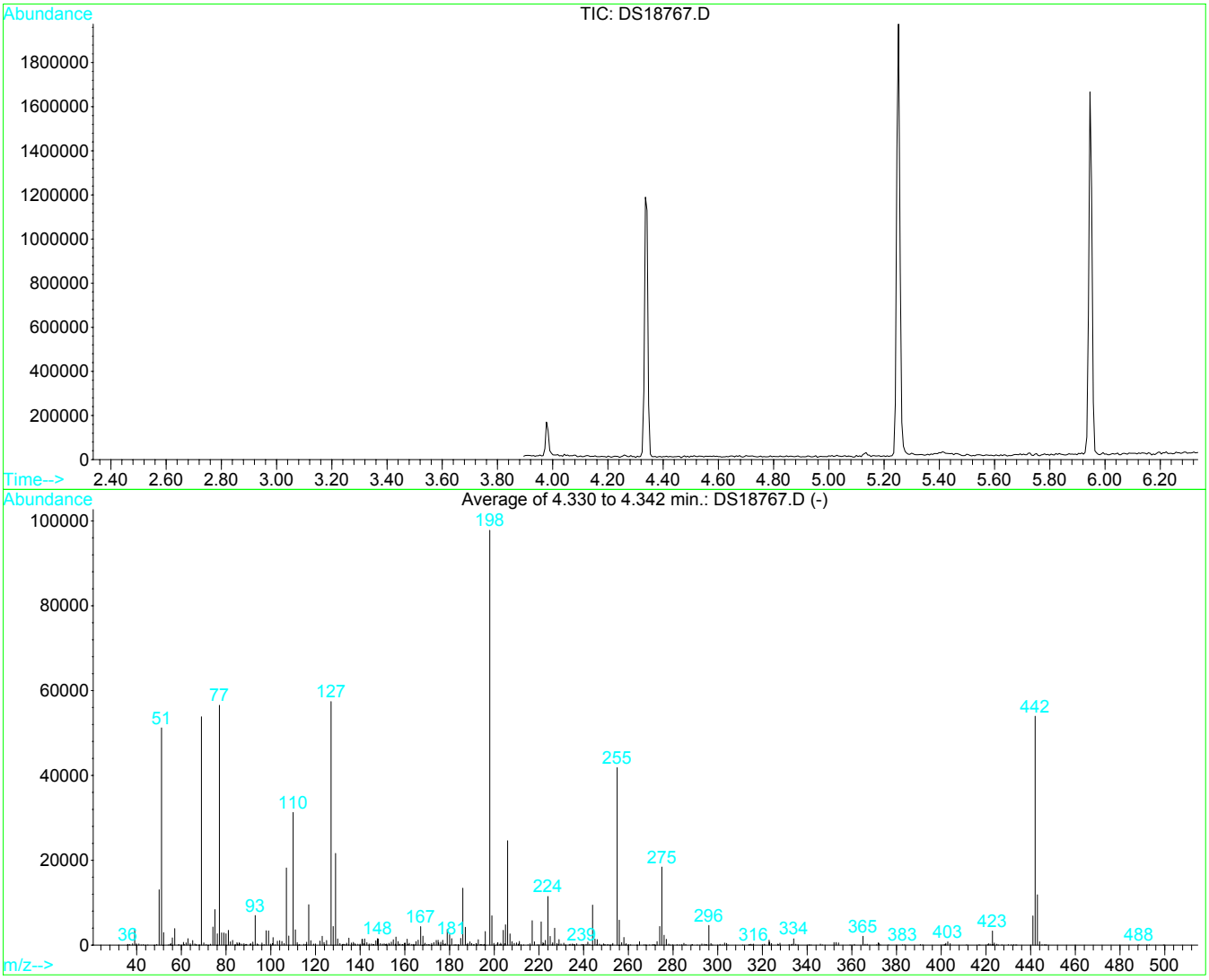
Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Calibration Check	S8J1213-CCV1	DS18768.D	10/11/2018	12:41.00
Blank	B8J1101-BLK1	DS18769.D	10/11/2018	13:11.00
LCS	B8J1101-BS1	DS18770.D	10/11/2018	13:40.00
NTP-1A	8100452-01	DS18771.D	10/11/2018	14:10.00
NTP-2A	8100452-02	DS18772.D	10/11/2018	14:38.00
NTP-2B	8100452-03	DS18773.D	10/11/2018	15:07.00
NTP-3B	8100452-04	DS18774.D	10/11/2018	15:35.00
NTP-4B	8100452-05	DS18775.D	10/11/2018	16:04.00
NTP-6	8100452-06	DS18776.D	10/11/2018	16:32.00
NTP-7	8100452-07	DS18777.D	10/11/2018	17:01.00
STP-1B	8100452-08	DS18778.D	10/11/2018	17:29.00
Matrix Spike	B8J1101-MS1	DS18779.D	10/11/2018	17:57.00
Matrix Spike Dup	B8J1101-MSD1	DS18780.D	10/11/2018	18:26.00

F-V

DFTPP

Data File : G:\HPCHEM\D\DATA\20181011\DS18767.D Vial: 2
Acq On : 11 Oct 2018 12:24 Operator: GCH
Sample : SEQ-TUN Inst : GCMS-D
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D



Spectrum Information: Average of 4.330 to 4.342 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	52.4	51204	PASS
68	69	0.00	2	0.2	107	PASS
69	198	0.00	100	55.1	53840	PASS
70	69	0.00	2	1.0	528	PASS
127	198	40	60	58.7	57429	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	97789	PASS
199	198	5	9	7.1	6927	PASS
275	198	10	30	18.8	18425	PASS
365	198	1	100	2.1	2097	PASS
441	443	0.01	100	58.2	6902	PASS
442	198	40	100	55.2	53958	PASS
443	442	17	23	22.0	11861	PASS

DS18767.D 0802ABN.M Tue Oct 16 12:43:27 2018 SS

Compound List Report GCMS-D

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Aug 07 11:07:34 2018
Response via : Initial Calibration
Total Cpnds : 92

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dichlorobenzene-d4	152	6.24	1.000	A	2	A	B
2		1,4-Dioxane	88	2.93	0.470	A	2	A	B
3		N-nitrosodimethylamine	42	3.34	0.534	A	2	A	B
4		Pyridine	79	3.40	0.544	A	1	A	B
5	S	2-Fluorophenol	112	4.91	0.787	A	3	A	B
6		Benzaldehyde	77	5.80	0.929	A	3	A	B
7		Aniline	93	5.90	0.946	A	2	A	B
8	S	Phenol-d6	99	5.84	0.935	A	2	A	B
9	M C	Phenol	94	5.85	0.937	A	2	A	B
10		bis(2-Chloroethyl)ether	93	5.95	0.953	A	2	A	B
11	M	2-Chlorophenol	128	6.04	0.967	A	2	A	B
12		1,3-Dichlorobenzene	146	6.19	0.992	A	3	A	B
13	M C	1,4-Dichlorobenzene	146	6.26	1.003	A	3	A	B
14		Benzyl Alcohol	108	6.36	1.018	A	2	A	B
15		1,2-Dichlorobenzene	146	6.42	1.028	A	3	A	B
16		2-Methylphenol	108	6.46	1.034	A	2	A	B
17		bis(2-Chloroisopropyl)ether	45	6.49	1.039	A	2	A	B
18		Acetophenone	105	6.63	1.062	A	2	A	B
19		3+4-Methylphenol	108	6.61	1.058	A	2	A	B
20	M P	n-Nitroso-di-n-propylamine	70	6.62	1.060	A	2	A	B
21		Hexachloroethane	117	6.77	1.084	A	3	A	B
22	I	Naphthalene-d8	136	7.53	1.000	A	3	A	B
23	S	Nitrobenzene-d5	82	6.79	0.902	A	2	A	B
24		Nitrobenzene	77	6.81	0.905	A	2	A	B
25		Isophorone	82	7.04	0.935	A	2	A	B
26	C	2-Nitrophenol	139	7.13	0.947	A	2	A	B
27		2,4-Dimethylphenol	107	7.14	0.949	A	3	A	B
28		bis(2-Chloroethoxy)methane	93	7.23	0.961	A	2	A	B
29	C	2,4-Dichlorophenol	162	7.37	0.979	A	2	A	B
30		Benzoic Acid	105	7.20	0.957	QO	2	A	B
31	M	1,2,4-Trichlorobenzene	180	7.46	0.991	A	2	A	B
32		Naphthalene	128	7.55	1.003	A	3	A	B
33		4-Chloroaniline	127	7.58	1.006	A	2	A	B
34	C	Hexachlorobutadiene	225	7.66	1.018	A	3	A	B
35		Caprolactam	113	7.90	1.050	A	2	A	B
36	M C	4-Chloro-3-methylphenol	107	8.04	1.068	A	2	A	B
37		2-Methylnaphthalene	142	8.23	1.094	A	2	A	B
38		1-Methylnaphtalene	142	8.34	1.108	A	2	A	B
39	I	Acenaphthene-d10	164	9.29	1.000	A	2	A	B
40	P	Hexachlorocyclopentadiene	237	8.39	0.903	A	2	A	B
41		1,2,4,5-Tetrachlorobenzene	216	8.41	0.905	A	2	A	B
42	C	2,4,6-Trichlorophenol	196	8.51	0.916	A	3	A	B
43		2,4,5-Trichlorophenol	196	8.55	0.920	A	3	A	B
44	S	2-Fluorobiphenyl	172	8.58	0.924	A	2	A	B
45		Biphenyl	154	8.69	0.936	A	2	A	B
46		2-Chloronaphthalene	162	8.73	0.939	A	2	A	B
47		2-Nitroaniline	138	8.81	0.948	A	2	A	B
48		Dimethylphthalate	163	8.96	0.965	A	2	A	B
49		Acenaphthylene	152	9.15	0.985	A	2	A	B
50		2,6-Dinitrotoluene	165	9.04	0.973	A	2	A	B
51		3-Nitroaniline	138	9.22	0.992	A	2	A	B
52	M C	Acenaphthene	153	9.32	1.004	A	2	A	B
53	P	2,4-Dinitrophenol	184	9.32	1.003	QO	1	A	B
54		Dibenzofuran	168	9.49	1.022	A	2	A	B
55	M P	4-Nitrophenol	65	9.36	1.007	QO	2	A	B
56	M	2,4-Dinitrotoluene	165	9.45	1.017	A	2	A	B
57		2,3,4,6-Tetrachlorophenol	232	9.61	1.034	A	2	A	L
58		Fluorene	166	9.84	1.059	A	2	A	B
59		Diethylphthalate	149	9.66	1.040	A	2	A	B
60		4-Chlorophenyl phenyl ether	204	9.81	1.056	A	2	A	B
61		4-Nitroaniline	138	9.83	1.058	A	2	A	B
62	I	Phenanthrene-d10	188	10.79	1.000	A	2	A	B
63		4,6-Dinitro-2-methylphenol	198	9.86	0.914	QO	2	A	B

64		n-Nitrosodiphenylamine	169	9.92	0.920	A	2	A	B
65		1,2-Diphenylhydrazine	77	9.97	0.924	A	2	A	B
66	S	2,4,6-Tribromophenol	330	10.08	0.934	A	2	A	B
67		4-Bromophenyl-phenyl ether	248	10.30	0.955	A	2	A	B
68		Hexachlorobenzene	284	10.40	0.964	A	2	A	B
69		Atrazine	200	10.43	0.967	QO	2	A	B
70	M C	Pentachlorophenol	266	10.59	0.981	QO	2	A	B
71		Phenanthrene	178	10.81	1.002	A	2	A	B
72		Anthracene	178	10.86	1.007	A	2	A	B
73		Carbazole	167	11.01	1.020	A	2	A	B
74		Di-n-butylphthalate	149	11.29	1.046	A	2	A	B
75	C	Fluoranthene	202	12.01	1.113	A	2	A	B
76	I	Chrysene-d12	240	13.64	1.000	A	2	A	B
77		Benzidine	184	12.11	0.887	A	2	A	B
78	M	Pyrene	202	12.26	0.899	A	2	A	B
79	S	p-Terphenyl-d14	244	12.37	0.907	A	2	A	B
80		Butylbenzylphthalate	149	12.88	0.944	A	2	A	B
81		Benzo(a)anthracene	228	13.63	0.999	A	2	A	B
82		3,3'-Dichlorobenzidine	252	13.56	0.994	A	2	A	B
83		Chrysene	228	13.68	1.002	A	2	A	B
84		bis(2-Ethylhexyl)phthalate	149	13.53	0.992	A	2	A	B
85	I	Perylene-d12	264	15.71	1.000	A	2	A	B
86	C	Di-n-octylphthalate	149	14.33	0.913	A	1	A	B
87		Benzo(b)fluoranthene	252	15.07	0.960	A	3	A	B
88		Benzo(k)fluoranthene	252	15.11	0.962	A	3	A	B
89	C	Benzo(a)pyrene	252	15.61	0.994	A	3	A	L
90		Indeno(1,2,3-cd)pyrene	276	17.93	1.141	A	2	A	B
91		Dibenzo(a,h)anthracene	278	17.94	1.142	A	2	A	B
92		Benzo(g,h,i)perylene	276	18.61	1.185	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

0802ABN.M Tue Aug 07 11:09:45 2018 SS

Response Factor Report GCMS-D

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Aug 07 11:07:34 2018
Response via : Initial Calibration

Calibration Files
2 =DS17875.D 5 =DS17876.D 10 =DS17877.D
50 =DS17879.D 60 =DS17880.D 80 =DS17881.D

		Compound	2	5	10	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)		1,4-Dioxane		0.657	0.747	0.699	0.656	0.597	0.671	8.30
3)		N-nitrosodimethylam	0.639	0.745	0.800	0.791	0.688	0.661	0.721	9.45
4)		Pyridine	1.847	1.740	1.839	1.883	1.681	1.654	1.774	5.38
5)	S	2-Fluorophenol	1.207	1.351	1.426	1.456	1.406	1.380	1.371	6.42
6)		Benzaldehyde	0.982	1.059	1.091	1.050	0.953	0.866	1.000	8.33
7)		Aniline	2.080	2.098	2.135	2.113	2.068	1.998	2.082	2.28
8)	S	Phenol-d6	1.598	1.727	1.824	1.805	1.768	1.725	1.741	4.63
9)	M C	Phenol	1.704	1.834	1.850	1.753	1.710	1.640	1.749	4.63
10)		bis(2-Chloroethyl)e	1.494	1.428	1.509	1.431	1.424	1.369	1.442	3.55
11)	M	2-Chlorophenol	1.609	1.565	1.571	1.485	1.457	1.423	1.518	4.84
12)		1,3-Dichlorobenzene	1.806	1.679	1.716	1.631	1.597	1.579	1.668	5.06
13)	M C	1,4-Dichlorobenzene	1.757	1.622	1.673	1.546	1.521	1.481	1.600	6.48
14)		Benzyl Alcohol	0.809	0.827	0.877	0.960	0.968	0.975	0.903	8.26
15)		1,2-Dichlorobenzene	1.752	1.668	1.674	1.539	1.519	1.494	1.608	6.48
16)		2-Methylphenol	1.276	1.304	1.320	1.281	1.279	1.290	1.292	1.33
17)		bis(2-Chloroisoprop	2.861	2.542	2.464	2.272	2.285	2.201	2.437	10.00
18)		Acetophenone	1.837	2.042	1.946	1.846	1.821	1.800	1.882	4.95
19)		3+4-Methylphenol	1.283	1.387	1.506	1.403	1.417	1.402	1.400	5.11
20)	M P	n-Nitroso-di-n-prop	1.091	1.036	0.996	0.929	0.953	0.961	0.994	6.03
21)		Hexachloroethane	0.701	0.677	0.656	0.640	0.642	0.654	0.662	3.55
22)	I	Naphthalene-d8	----------ISTD----------							
23)	S	Nitrobenzene-d5	0.375	0.361	0.382	0.375	0.381	0.360	0.372	2.63
24)		Nitrobenzene	0.385	0.386	0.398	0.390	0.396	0.370	0.388	2.54
25)		Isophorone	0.589	0.581	0.604	0.569	0.583	0.549	0.579	3.25
26)	C	2-Nitrophenol	0.171	0.186	0.190	0.213	0.213	0.211	0.197	9.01
27)		2,4-Dimethylphenol	0.324	0.329	0.349	0.327	0.328	0.315	0.329	3.42
28)		bis(2-Chloroethoxy)	0.389	0.408	0.431	0.424	0.415	0.405	0.412	3.64
29)	C	2,4-Dichlorophenol	0.256	0.287	0.312	0.310	0.310	0.293	0.295	7.30
30)		Benzoic Acid	0.018	0.018	0.020	0.058	0.074	0.093	0.047	69.33
31)	M	1,2,4-Trichlorobenz	0.363	0.337	0.352	0.333	0.332	0.314	0.338	4.97
32)		Naphthalene	1.204	1.203	1.234	1.104	1.057	0.971	1.129	9.11
33)		4-Chloroaniline	0.461	0.410	0.449	0.454	0.456	0.430	0.443	4.41
34)	C	Hexachlorobutadiene	0.158	0.155	0.158	0.149	0.150	0.141	0.152	4.34
35)		Caprolactam	0.108	0.109	0.123	0.138	0.146	0.135	0.126	12.46
36)	M C	4-Chloro-3-methylph	0.272	0.328	0.311	0.321	0.326	0.304	0.310	6.79
37)		2-Methylnaphthalene	0.762	0.786	0.767	0.695	0.670	0.596	0.712	10.21
38)		1-Methylnaphtalene	0.757	0.787	0.759	0.649	0.648	0.579	0.697	11.88
39)	I	Acenaphthene-d10	----------ISTD----------							
40)	P	Hexachlorocyclopent	0.182	0.219	0.231	0.275	0.279	0.287	0.246	16.97
41)		1,2,4,5-Tetrachloro	0.619	0.593	0.581	0.522	0.511	0.502	0.555	8.88
42)	C	2,4,6-Trichlorophen	0.384	0.373	0.373	0.400	0.393	0.391	0.386	2.82
43)		2,4,5-Trichlorophen	0.350	0.355	0.371	0.402	0.401	0.398	0.380	6.26
44)	S	2-Fluorobiphenyl	1.643	1.600	1.545	1.422	1.354	1.296	1.477	9.50
45)		Biphenyl	1.805	1.777	1.818	1.653	1.564	1.508	1.688	7.84
46)		2-Chloronaphthalene	1.452	1.434	1.423	1.294	1.257	1.216	1.346	7.60
47)		2-Nitroaniline	0.380	0.437	0.442	0.499	0.490	0.484	0.455	9.86
48)		Dimethylphthalate	1.557	1.459	1.498	1.400	1.325	1.279	1.420	7.44
49)		Acenaphthylene	2.329	2.308	2.331	2.057	1.972	1.842	2.140	9.90
50)		2,6-Dinitrotoluene	0.356	0.355	0.351	0.366	0.356	0.353	0.356	1.40
51)		3-Nitroaniline	0.385	0.374	0.414	0.415	0.411	0.404	0.401	4.25
52)	M C	Acenaphthene	1.440	1.437	1.455	1.323	1.260	1.195	1.352	8.06
53)	P	2,4-Dinitrophenol	0.007	0.023	0.049	0.179	0.194	0.201	0.109	84.26
54)		Dibenzofuran	2.006	1.900	1.962	1.723	1.658	1.560	1.801	10.00
55)	M P	4-Nitrophenol	0.131	0.098	0.142	0.227	0.246	0.250	0.182	36.40
56)	M	2,4-Dinitrotoluene	0.393	0.408	0.458	0.497	0.486	0.476	0.453	9.47
57)		2,3,4,6-Tetrachloro	0.217	0.216	0.243	0.273	0.269	0.274	0.249	11.02

(#) = Out of Range

Response Factor Report GCMS-D

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Aug 07 11:07:34 2018
Response via : Initial Calibration

Calibration Files
2 =DS17875.D 5 =DS17876.D 10 =DS17877.D
50 =DS17879.D 60 =DS17880.D 80 =DS17881.D

		Compound	2	5	10	50	60	80	Avg	%RSD
58)		Fluorene	1.634	1.622	1.615	1.480	1.371	1.281	1.501	9.95
59)		Diethylphthalate	1.470	1.525	1.501	1.418	1.344	1.282	1.423	6.66
60)		4-Chlorophenyl phen	0.674	0.675	0.705	0.680	0.631	0.612	0.663	5.22
61)		4-Nitroaniline	0.341	0.336	0.396	0.415	0.397	0.384	0.378	8.57
62)	I	Phenanthrene-d10	----------	ISTD	----------					
63)		4,6-Dinitro-2-methy	0.030	0.061	0.088	0.147	0.152	0.151	0.105	50.36
64)		n-Nitrosodiphenylam	0.706	0.706	0.729	0.690	0.685	0.630	0.691	4.89
65)		1,2-Diphenylhydrazi	0.907	0.943	0.885	0.882	0.848	0.789	0.876	6.01
66)	S	2,4,6-Tribromopheno	0.076	0.078	0.078	0.091	0.094	0.090	0.085	9.35
67)		4-Bromophenyl-pheny	0.188	0.182	0.205	0.195	0.195	0.187	0.192	4.34
68)		Hexachlorobenzene	0.239	0.237	0.226	0.211	0.211	0.202	0.221	6.90
69)		Atrazine	0.166	0.182	0.186	0.175	0.178	0.171	0.176	4.00
70)	M C	Pentachlorophenol	0.012	0.018	0.029	0.083	0.092	0.095	0.055	71.67#
71)		Phenanthrene	1.245	1.224	1.263	1.116	1.057	0.975	1.147	10.14
72)		Anthracene	1.207	1.209	1.280	1.169	1.097	1.004	1.161	8.40
73)		Carbazole	1.132	1.177	1.243	1.133	1.076	0.988	1.125	7.75
74)		Di-n-butylphthalate	1.399	1.477	1.532	1.385	1.265	1.160	1.370	9.99
75)	C	Fluoranthene	1.235	1.275	1.372	1.204	1.111	1.041	1.206	9.77
76)	I	Chrysene-d12	----------	ISTD	----------					
77)		Benzidine	0.688	0.803	0.803	0.878	0.856	0.765	0.799	8.47
78)	M	Pyrene	1.553	1.630	1.611	1.493	1.495	1.414	1.533	5.30
79)	S	p-Terphenyl-d14	0.905	0.922	0.952	0.907	0.916	0.883	0.914	2.49
80)		Butylbenzylphthalat	0.782	0.772	0.834	0.822	0.844	0.795	0.808	3.63
81)		Benzo(a)anthracene	1.384	1.306	1.354	1.274	1.270	1.228	1.303	4.46
82)		3,3'-Dichlorobenzid	0.418	0.438	0.442	0.429	0.429	0.412	0.428	2.64
83)		Chrysene	1.322	1.262	1.314	1.226	1.203	1.143	1.245	5.50
84)		bis(2-Ethylhexyl)ph	1.027	1.017	1.107	1.112	1.102	1.056	1.070	3.96
85)	I	Perylene-d12	----------	ISTD	----------					
86)	C	Di-n-octylphthalate	1.629	1.719	1.779	1.752	1.706	1.623	1.701	3.76
87)		Benzo(b)fluoranthen	1.135	1.133	1.122	1.096	1.086	1.054	1.104	2.88
88)		Benzo(k)fluoranthen	1.180	1.154	1.130	1.081	1.109	1.083	1.123	3.50
89)	C	Benzo(a)pyrene	1.083	1.120	1.161	1.150	1.138	1.104	1.126	2.60
90)		Indeno(1,2,3-cd)pyr	1.241	1.215	1.248	1.226	1.273	1.223	1.238	1.71
91)		Dibenzo(a,h)anthrac	1.038	1.064	1.080	1.084	1.085	1.064	1.069	1.70
92)		Benzo(g,h,i)perylen	1.021	1.009	1.031	1.063	1.076	1.052	1.042	2.48

(#) = Out of Range

Response Factor Report GCMS-A

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Aug 27 15:35:59 2018
Response via : Initial Calibration

Calibration Files
2 =AS06908.D 5 =AS06909.D 20 =AS06911.D
50 =AS06912.D 60 =AS06913.D 80 =AS06914.D

		Compound	2	5	20	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)		Pyridine	1.251	1.239	1.295	1.281	1.270	1.298	1.272	1.85
3)		N-Nitroso-dimethyla	0.594	0.567	0.600	0.588	0.590	0.605	0.591	2.23
4)	S	2-Fluorophenol	1.017	0.977	1.115	1.150	1.198	1.212	1.111	8.65
5)		Benzaldehyde	0.922	0.945	0.957	0.914	0.891	0.840	0.911	4.62
6)		Aniline	1.439	1.424	1.591	1.589	1.538	1.512	1.516	4.75
7)	S	Phenol-d6	1.137	1.163	1.365	1.396	1.407	1.423	1.315	9.85
8)		Phenol	1.239	1.276	1.415	1.442	1.447	1.464	1.381	7.04
9)		bis(2-Chloroethyl)e	1.179	1.224	1.225	1.217	1.233	1.194	1.212	1.72
10)		2-Chlorophenol	1.102	1.135	1.303	1.320	1.330	1.351	1.257	8.65
11)		1,3-Dichlorobenzene	1.613	1.597	1.691	1.650	1.652	1.653	1.643	2.03
12)		1,4-Dichlorobenzene	1.608	1.596	1.627	1.612	1.595	1.591	1.605	0.86
13)		Benzyl Alcohol	0.660	0.718	0.797	0.801	0.815	0.830	0.770	8.64
14)		1,2-Dichlorobenzene	1.520	1.506	1.606	1.572	1.554	1.574	1.555	2.38
15)		2-Methylphenol	0.974	1.015	1.100	1.085	1.078	1.094	1.058	4.83
16)		bis(2-Chloroisoprop	2.515	2.504	2.581	2.466	2.436	2.418	2.487	2.40
17)		Acetophenone	1.567	1.576	1.635	1.578	1.581	1.606	1.591	1.61
18)		3+4-Methylphenol	0.956	0.975	1.132	1.162	1.161	1.189	1.096	9.37
19)		n-Nitroso-di-n-prop	0.639	0.670	0.705	0.691	0.681	0.691	0.680	3.39
20)		Hexachloroethane	0.546	0.543	0.569	0.575	0.575	0.581	0.565	2.83
21)	I	Naphthalene-d8	----------ISTD----------							
22)	S	Nitrobenzene-d5	0.221	0.213	0.252	0.313	0.308	0.313	0.270	17.49
23)		Nitrobenzene	0.330	0.328	0.343	0.331	0.327	0.326	0.331	1.87
24)		Isophorone	0.454	0.469	0.510	0.496	0.494	0.496	0.487	4.28
25)		2-Nitrophenol	0.057	0.063	0.106	0.141	0.162	0.174	0.117	42.68
26)		2,4-Dimethylphenol	0.267	0.262	0.286	0.284	0.282	0.286	0.278	3.74
27)		bis(2-Chloroethoxy)	0.345	0.329	0.359	0.342	0.341	0.345	0.344	2.77
28)		2,4-Dichlorophenol	0.223	0.220	0.284	0.308	0.309	0.317	0.277	16.01
29)		Benzoic Acid	0.011	0.015	0.035	0.043	0.061	0.080	0.041	65.29
30)		1,2,4-Trichlorobenz	0.375	0.369	0.387	0.380	0.375	0.376	0.377	1.62
31)		Naphthalene	1.115	1.094	1.142	1.087	1.073	1.068	1.097	2.55
32)		4-Chloroaniline	0.347	0.362	0.383	0.323	0.304	0.304	0.337	9.63
33)		Hexachlorobutadiene	0.233	0.232	0.242	0.235	0.232	0.236	0.235	1.64
34)		Caprolactam	0.066	0.070	0.090	0.095	0.096	0.100	0.086	16.61
35)		4-Chloro-3-methylph	0.185	0.192	0.242	0.254	0.260	0.263	0.233	15.03
36)		2-Methylnaphthalene	0.711	0.706	0.754	0.713	0.709	0.698	0.715	2.75
37)		1-Methylnaphthalene	0.686	0.681	0.714	0.677	0.669	0.663	0.682	2.62
38)	I	Acenaphthene-d10	----------ISTD----------							
39)		Hexachlorocyclopent	0.304	0.307	0.406	0.456	0.471	0.481	0.404	19.94
40)		1,2,4,5-Tetrachloro	0.732	0.719	0.763	0.757	0.749	0.741	0.743	2.18
41)		2,4,6-Trichlorophen	0.284	0.317	0.411	0.464	0.458	0.459	0.399	19.85
42)		2,4,5-Trichlorophen	0.316	0.327	0.427	0.473	0.472	0.479	0.416	18.15
43)	S	2-Fluorobiphenyl	1.545	1.560	1.645	1.605	1.589	1.551	1.582	2.43
44)		Biphenyl	1.616	1.662	1.726	1.702	1.681	1.639	1.671	2.44
45)		2-Chloronaphthalene	1.335	1.340	1.407	1.384	1.378	1.350	1.366	2.08
46)		2-Nitroaniline	0.142	0.158	0.279	0.370	0.394	0.408	0.292	40.80
47)		Dimethylphthalate	1.457	1.455	1.486	1.476	1.462	1.452	1.465	0.92
48)		Acenaphthylene	1.979	2.028	2.147	2.078	2.035	2.022	2.048	2.83
49)		2,6-Dinitrotoluene	0.112	0.149	0.256	0.313	0.328	0.344	0.250	39.24
50)		3-Nitroaniline	0.139	0.162	0.210	0.201	0.204	0.199	0.186	15.47
51)		Acenaphthene	1.365	1.358	1.409	1.380	1.367	1.347	1.371	1.57
52)		2,4-Dinitrophenol	0.004	0.011	0.038	0.080	0.106	0.140	0.063	86.88
53)		Dibenzofuran	1.819	1.808	1.885	1.822	1.775	1.758	1.811	2.43
54)		4-Nitrophenol	0.041	0.029	0.078	0.148	0.173	0.184	0.109	62.78
55)		2,4-Dinitrotoluene	0.168	0.144	0.277	0.384	0.418	0.443	0.306	42.22
56)		2,3,4,6-Tetrachloro	0.226	0.264	0.348	0.393	0.414	0.411	0.343	23.38
57)		Fluorene	1.513	1.537	1.585	1.541	1.520	1.518	1.536	1.74

(#) = Out of Range

Response Factor Report GCMS-A

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Aug 27 15:35:59 2018
Response via : Initial Calibration

Calibration Files
2 =AS06908.D 5 =AS06909.D 20 =AS06911.D
50 =AS06912.D 60 =AS06913.D 80 =AS06914.D

		Compound	2	5	20	50	60	80	Avg	%RSD
58)		Diethylphthalate	1.394	1.391	1.468	1.456	1.447	1.436	1.432	2.27
59)		4-Chlorophenyl phen	0.765	0.765	0.800	0.777	0.771	0.776	0.776	1.68
60)		4-Nitroaniline	0.159	0.170	0.161	0.201	0.200	0.196	0.181	10.98
61)	I	Phenanthrene-d10	----------ISTD----------							
62)		4,6-Dinitro-2-methy	0.015	0.020	0.047	0.081	0.097	0.115	0.062	66.38
63)		n-Nitrosodiphenylam	0.673	0.658	0.663	0.633	0.617	0.626	0.645	3.51
64)		1,2-Diphenylhydrazi	0.649	0.652	0.670	0.628	0.626	0.625	0.642	2.83
65)	S	2,4,6-Tribromopheno	0.056	0.066	0.102	0.112	0.115	0.119	0.095	28.65
66)		4-Bromophenyl-pheny	0.244	0.253	0.269	0.260	0.259	0.262	0.258	3.25
67)		Hexachlorobenzene	0.287	0.272	0.286	0.277	0.273	0.277	0.278	2.24
68)		Atrazine	0.172	0.183	0.188	0.172	0.167	0.162	0.174	5.75
69)		Pentachlorophenol	0.055	0.063	0.127	0.158	0.165	0.175	0.124	42.81
70)		Phenanthrene	1.162	1.152	1.183	1.141	1.119	1.113	1.145	2.31
71)		Anthracene	1.123	1.148	1.210	1.161	1.136	1.126	1.151	2.82
72)		Carbazole	1.051	1.047	0.682	0.574	0.631	0.632	0.769	28.48
73)		Di-n-butylphthalate	1.179	1.251	1.412	1.333	1.303	1.277	1.293	6.08
74)		Fluoranthene	1.366	1.375	1.471	1.402	1.387	1.347	1.391	3.11
75)	I	Chrysene-d12	----------ISTD----------							
76)		Benzidine	0.131	0.087	0.042	0.028	0.029	0.028	0.058	73.75
77)		Pyrene	1.255	1.280	1.350	1.300	1.284	1.259	1.288	2.70
78)	S	p-Terphenyl-d14	0.953	0.966	1.051	1.011	1.006	0.985	0.995	3.53
79)		Butylbenzylphthalat	0.418	0.463	0.580	0.593	0.594	0.597	0.541	14.67
80)		Benzo(a)anthracene	1.292	1.283	1.346	1.330	1.309	1.304	1.311	1.81
81)		3,3'-Dichlorobenzid	0.316	0.302	0.235	0.206	0.203	0.207	0.245	20.95
82)		Chrysene	1.169	1.184	1.232	1.205	1.195	1.182	1.194	1.84
83)		bis(2-Ethylhexyl)ph	0.613	0.666	0.845	0.859	0.847	0.844	0.779	14.06
84)	I	Perylene-d12	----------ISTD----------							
85)		Di-n-octylphthalate	0.898	0.991	1.349	1.389	1.408	1.378	1.236	18.47
86)		Benzo(b)fluoranthen	0.972	1.037	1.119	1.135	1.146	1.151	1.093	6.67
87)		Benzo(k)fluoranthen	1.080	1.048	1.129	1.081	1.092	1.056	1.081	2.67
88)		Benzo(a)pyrene	0.999	1.042	1.153	1.149	1.157	1.150	1.108	6.26
89)		Indeno(1,2,3-cd)pyr	1.067	1.094	1.245	1.275	1.291	1.288	1.210	8.41
90)		Dibenzo(a,h)anthrac	0.919	0.958	1.088	1.105	1.120	1.118	1.051	8.47
91)		Benzo(g,h,i)perylen	0.896	0.925	1.017	1.037	1.049	1.061	0.997	6.96

(#) = Out of Range

Compound List Report GCMS-A

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Aug 28 19:14:16 2018
Response via : Initial Calibration
Total Cpnds : 91

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-Dichlorobenzene-d4	152	6.51	1.000	A	2	A	B
2		Pyridine	79	3.77	0.579	A	1	A	B
3		N-Nitroso-dimethylamine	42	3.70	0.569	A	2	A	B
4	S	2-Fluorophenol	112	5.18	0.796	A	3	A	B
5		Benzaldehyde	77	6.07	0.933	A	3	A	B
6		Aniline	93	6.17	0.948	A	2	A	B
7	S	Phenol-d6	99	6.09	0.936	A	2	A	B
8		Phenol	94	6.11	0.938	A	2	A	B
9		bis(2-Chloroethyl)ether	93	6.21	0.954	A	2	A	B
10		2-Chlorophenol	128	6.30	0.968	A	2	A	B
11		1,3-Dichlorobenzene	146	6.46	0.992	A	3	A	B
12		1,4-Dichlorobenzene	146	6.53	1.003	A	3	A	B
13		Benzyl Alcohol	108	6.62	1.017	A	2	A	B
14		1,2-Dichlorobenzene	146	6.69	1.027	A	3	A	B
15		2-Methylphenol	108	6.71	1.031	A	2	A	B
16		bis(2-Chloroisopropyl)ether	45	6.75	1.036	A	2	A	B
17		Acetophenone	105	6.90	1.059	A	2	A	B
18		3+4-Methylphenol	108	6.86	1.054	A	2	A	B
19		n-Nitroso-di-n-propylamine	70	6.88	1.057	A	2	A	B
20		Hexachloroethane	117	7.03	1.080	A	3	A	B
21	I	Naphthalene-d8	136	7.79	1.000	A	3	A	B
22	S	Nitrobenzene-d5	82	7.06	0.906	A	2	A	B
23		Nitrobenzene	77	6.89	0.885	A	2	A	B
24		Isophorone	82	7.30	0.937	A	2	A	B
25		2-Nitrophenol	139	7.39	0.949	QO	2	A	B
26		2,4-Dimethylphenol	107	7.39	0.949	A	3	A	B
27		bis(2-Chloroethoxy)methane	93	7.48	0.961	A	2	A	B
28		2,4-Dichlorophenol	162	7.63	0.979	A	2	A	B
29		Benzoic Acid	105	7.46	0.958	QO	2	A	B
30		1,2,4-Trichlorobenzene	180	7.72	0.991	A	2	A	B
31		Naphthalene	128	7.81	1.003	A	3	A	B
32		4-Chloroaniline	127	7.83	1.006	A	2	A	B
33		Hexachlorobutadiene	225	7.92	1.017	A	3	A	B
34		Caprolactam	113	8.19	1.051	A	2	A	B
35		4-Chloro-3-methylphenol	107	8.29	1.065	A	2	A	B
36		2-Methylnaphthalene	142	8.50	1.091	A	2	A	B
37		1-Methylnaphthalene	142	8.61	1.105	A	2	A	B
38	I	Acenaphthene-d10	164	9.56	1.000	A	2	A	B
39		Hexachlorocyclopentadiene	237	8.66	0.906	A	2	A	B
40		1,2,4,5-Tetrachlorobenzene	216	8.67	0.907	A	2	A	B
41		2,4,6-Trichlorophenol	196	8.77	0.917	A	3	A	B
42		2,4,5-Trichlorophenol	196	8.81	0.921	A	3	A	B
43	S	2-Fluorobiphenyl	172	8.85	0.925	A	2	A	B
44		Biphenyl	154	8.96	0.937	A	2	A	B
45		2-Chloronaphthalene	162	9.00	0.941	A	2	A	B
46		2-Nitroaniline	138	9.08	0.949	QO	2	A	B
47		Dimethylphthalate	163	9.23	0.965	A	2	A	B
48		Acenaphthylene	152	9.42	0.985	A	2	A	B
49		2,6-Dinitrotoluene	165	9.30	0.973	QO	2	A	B
50		3-Nitroaniline	138	9.49	0.992	A	2	A	B
51		Acenaphthene	153	9.60	1.003	A	2	A	B
52		2,4-Dinitrophenol	184	9.58	1.002	QO	1	A	B
53		Dibenzofuran	168	9.76	1.021	A	2	A	B
54		4-Nitrophenol	65	9.61	1.005	QO	2	A	B
55		2,4-Dinitrotoluene	165	9.71	1.016	QO	2	A	B
56		2,3,4,6-Tetrachlorophenol	232	9.88	1.033	QO	2	A	B
57		Fluorene	166	10.11	1.057	A	2	A	B
58		Diethylphthalate	149	9.93	1.038	A	2	A	B
59		4-Chlorophenyl phenyl ether	204	10.08	1.054	A	2	A	B
60		4-Nitroaniline	138	10.10	1.056	A	2	A	B
61	I	Phenanthrene-d10	188	11.06	1.000	A	2	A	B
62		4,6-Dinitro-2-methylphenol	198	10.13	0.916	QO	2	A	B
63		n-Nitrosodiphenylamine	169	10.19	0.921	A	2	A	B

64		1,2-Diphenylhydrazine	77	10.24	0.926	A	2	A	B
65	S	2,4,6-Tribromophenol	330	10.35	0.936	QO	2	A	B
66		4-Bromophenyl-phenyl ether	248	10.58	0.956	A	2	A	B
67		Hexachlorobenzene	284	10.68	0.965	A	2	A	B
68		Atrazine	200	10.69	0.967	A	2	A	B
69		Pentachlorophenol	266	10.86	0.981	QO	2	A	B
70		Phenanthrene	178	11.09	1.002	A	2	A	B
71		Anthracene	178	11.14	1.007	A	2	A	B
72		Carbazole	167	11.28	1.019	QO	2	A	B
73		Di-n-butylphthalate	149	11.55	1.044	A	2	A	B
74		Fluoranthene	202	12.31	1.112	A	2	A	B
75	I	Chrysene-d12	240	13.99	1.000	A	2	A	B
76		Benzidine	184	12.40	0.887	Q	2	A	B
77		Pyrene	202	12.57	0.898	A	2	A	B
78	S	p-Terphenyl-d14	244	12.67	0.906	A	2	A	B
79		Butylbenzylphthalate	149	13.19	0.943	A	2	A	B
80		Benzo(a)anthracene	228	13.97	0.999	A	2	A	B
81		3,3'-Dichlorobenzidine	252	13.89	0.993	QO	2	A	B
82		Chrysene	228	14.02	1.002	A	2	A	B
83		bis(2-Ethylhexyl)phthalate	149	13.85	0.990	A	2	A	B
84	I	Perylene-d12	264	16.25	1.000	A	2	A	B
85		Di-n-octylphthalate	149	14.71	0.905	A	1	A	B
86		Benzo(b)fluoranthene	252	15.54	0.956	A	3	A	B
87		Benzo(k)fluoranthene	252	15.59	0.959	A	3	A	B
88		Benzo(a)pyrene	252	16.15	0.994	A	3	A	B
89		Indeno(1,2,3-cd)pyrene	276	18.76	1.154	A	2	A	B
90		Dibenzo(a,h)anthracene	278	18.79	1.156	A	2	A	B
91		Benzo(g,h,i)perylene	276	19.54	1.202	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

0824ABN.M Tue Aug 28 19:16:51 2018 SS

CALIBRATION VERIFICATION SUMMARY

SW 846 8270D

CCV ID: S8J1212-CCV1 **Analyzed:** 10/11/18 14:28

Analyte	Response Factor	Expected Result	Result		% Drift	Limit(s)
1-Methylnaphthalene	0.6436179	75.20	70.99		6	30
2,3,4,6-Tetrachlorophenol	0.3778771	50.00	48.13		4	30
2,4,5-Trichlorophenol	0.4462864	50.00	53.70		7	30
2,4,6-Trichlorophenol	0.4375443	50.00	54.87		10	20 (CCC)
2,4-Dichlorophenol	0.296475	50.00	53.56		7	20 (CCC)
2,4-Dimethylphenol	0.2792829	50.00	50.26		1	30
2,4-Dinitrophenol	0.1581587	50.00	67.53	*	35	0.05 (SPCC)
2,4-Dinitrotoluene	0.4601779	50.00	57.70		15	30
2,6-Dinitrotoluene	0.3359065	50.00	53.45		7	30
2-Chloronaphthalene	1.282212	50.00	46.94		6	30
2-Chlorophenol	1.258503	50.00	50.06		0	30
2-Methylnaphthalene	0.6798893	75.20	71.47		5	30
2-Methylphenol	1.023695	50.00	48.39		3	30
2-Nitroaniline	0.3991819	50.00	53.68		7	30
2-Nitrophenol	0.1930638	50.00	61.61		23	20 (CCC)
3,3'-Dichlorobenzidine	0.2253867	50.00	53.90		8	30
3+4-Methylphenol	1.118261	50.00	51.01		2	30
3-Nitroaniline	0.1810068	50.00	48.75		2	30
4,6-Dinitro-2-methylphenol	0.1480051	50.00	70.36	*	41	30
4-Bromophenyl-phenyl ether	0.2474413	50.00	47.93		4	30
4-Chloro-3-methylphenol	0.2581365	50.00	55.44		11	20 (CCC)
4-Chloroaniline	0.313133	50.00	46.43		7	30
4-Chlorophenyl phenyl ether	0.7440782	50.00	47.97		4	30
4-Nitroaniline	0.1499715	50.00	41.38		17	30
4-Nitrophenol	0.1072094	50.00	41.78		16	0.05 (SPCC)
Acenaphthene	1.267501	50.00	46.23		8	20 (CCC)
Acenaphthylene	1.885835	50.00	46.04		8	30
Acetophenone	1.633287	50.00	51.34		3	30
Anthracene	1.058996	50.00	46.02		8	30
Atrazine	0.1515081	50.00	43.54		13	30
Benzaldehyde	0.7238946	50.00	41.50		17	30
Benzo(a)anthracene	1.207992	50.00	46.08		8	30
Benzo(a)pyrene	1.028786	50.00	46.41		7	20 (CCC)
Benzo(b)fluoranthene	1.028701	50.00	47.04		6	30
Benzo(g,h,i)perylene	0.9923932	50.00	49.75		1	30
Benzo(k)fluoranthene	0.9732221	50.00	45.02		10	30
Biphenyl	1.521553	50.00	45.53		9	30
bis(2-chloroethoxy)methane	0.332707	50.00	48.42		3	30
bis(2-chloroethyl)ether	1.264599	50.00	52.17		4	30
bis(2-chloroisopropyl)ether	2.184053	50.00	43.92		12	30
bis(2-ethylhexyl)phthalate	0.7700481	50.00	49.43		1	30
Butylbenzylphthalate	0.5399785	50.00	49.93		0	30
Caprolactam	9.298892E-02	50.00	53.96		8	30
Carbazole	0.6699405	50.00	54.06		8	30
Chrysene	1.104658	50.00	46.25		8	30
Dibenzo(a,h)anthracene	1.05841	50.00	50.34		1	30
Dibenzofuran	1.680528	50.00	46.39		7	30

F-VII

CALIBRATION VERIFICATION SUMMARY

SW 846 8270D

CCV ID: S8J1212-CCV1 **Analyzed:** 10/11/18 14:28

Analyte	Response Factor	Expected Result	Result	% Drift	Limit(s)
Diethylphthalate	1.358499	50.00	47.44	5	30
Dimethylphthalate	1.363624	50.00	46.55	7	30
Di-n-butylphthalate	1.229137	50.00	47.55	5	30
Di-n-octylphthalate	1.350972	50.00	50.68	1	20 (CCC)
Fluoranthene	1.283546	50.00	46.12	8	20 (CCC)
Fluorene	1.402544	50.00	45.66	9	30
Hexachlorobenzene	0.2633497	50.00	47.29	5	30
Hexachlorobutadiene	0.2328334	50.00	49.50	1	20 (CCC)
Hexachlorocyclopentadiene	0.3853038	50.00	47.67	5	0.05 (SPCC)
Hexachloroethane	0.5914757	50.00	52.34	5	30
Indeno(1,2,3-cd)pyrene	1.198203	50.00	49.52	1	30
Isophorone	0.470318	50.00	48.33	3	30
Naphthalene	0.9762417	50.00	44.51	11	30
Nitrobenzene	0.3191734	50.00	48.24	4	30
n-Nitroso-dimethylamine	0.5318674	50.00	45.03	10	30
n-Nitroso-di-n-propylamine	0.672835	50.00	49.50	1	0.05 (SPCC)
n-Nitrosodiphenylamine	0.5759163	50.00	44.65	11	20 (CCC)
Pentachlorophenol	0.1223561	50.00	41.00	18	20 (CCC)
Phenanthrene	1.030003	50.00	44.98	10	30
Phenol	1.302726	50.00	47.18	6	20 (CCC)
Pyrene	1.194812	50.00	46.37	7	30

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07395.D Vial: 3
Acq On : 11 Oct 2018 14:28 Operator: GCH
Sample : SEQ-CCV Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 12 10:55 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Fri Oct 12 10:53:36 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.27	152	171909	40.00	ug/kg	0.00
21) Naphthalene-d8	7.55	136	668028	40.00	ug/kg	0.00
38) Acenaphthene-d10	9.32	164	361834	40.00	ug/kg	0.00
61) Phenanthrene-d10	10.81	188	711170	40.00	ug/kg	0.00
75) Chrysene-d12	13.68	240	779517	40.00	ug/kg	0.00
84) Perylene-d12	15.76	264	840849	40.00	ug/kg	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.94	112	235747	49.36	ug/kg	-0.05
Spiked Amount 100.000	Range 15 - 62		Recovery = 49.36%			
7) Phenol-d6	5.87	99	277152	49.03	ug/kg	0.00
Spiked Amount 100.000	Range 15 - 45		Recovery = 49.03%#			
22) Nitrobenzene-d5	6.82	82	263141	58.34	ug/kg	-0.02
Spiked Amount 50.000	Range 32 - 101		Recovery = 116.68%#			
43) 2-Fluorobiphenyl	8.61	172	651989	45.55	ug/kg	-0.01
Spiked Amount 50.000	Range 36 - 103		Recovery = 91.10%			
65) 2,4,6-Tribromophenol	10.11	330	99993	50.45	ug/kg	0.00
Spiked Amount 100.000	Range 28 - 167		Recovery = 50.45%			
78) p-Terphenyl-d14	12.40	244	918700	47.36	ug/kg	0.01
Spiked Amount 50.000	Range 44 - 117		Recovery = 94.72%			
Target Compounds						Qvalue
2) Pyridine	3.47	79	257481m	47.08	ng/uL	
3) N-Nitroso-dimethylamine	3.41	42	114291m	45.03	ng/uL	
5) Benzaldehyde	5.83	77	155555m	41.50	ug/kg	
6) Aniline	5.94	93	300167	46.08	ug/kg	96
8) Phenol	5.88	94	279938	47.18	ug/kg	89
9) bis(2-Chloroethyl)ether	5.98	93	271745	52.17	ug/kg	90
10) 2-Chlorophenol	6.06	128	270435	50.06	ug/kg	99
11) 1,3-Dichlorobenzene	6.22	146	330678	46.84	ug/kg	99
12) 1,4-Dichlorobenzene	6.28	146	320640	46.49	ug/kg	98
13) Benzyl Alcohol	6.39	108	140178	42.36	ug/kg	95
14) 1,2-Dichlorobenzene	6.44	146	318668	47.68	ug/kg	99
15) 2-Methylphenol	6.49	108	219978	48.39	ug/kg	97
16) bis(2-Chloroisopropyl)ethe	6.51	45	469323	43.92	ug/kg	96
17) Acetophenone	6.66	105	350971	51.34	ug/kg	89
18) 3+4-Methylphenol	6.64	108	240299	51.01	ug/kg	99
19) n-Nitroso-di-n-propylamine	6.65	70	144583	49.50	ug/kg	90
20) Hexachloroethane	6.79	117	127100	52.34	ug/kg	98
23) Nitrobenzene	6.84	77	266521	48.24	ug/kg	99
24) Isophorone	7.07	82	392732	48.33	ug/kg	99
25) 2-Nitrophenol	7.16	139	161215	61.61	ug/kg	98
26) 2,4-Dimethylphenol	7.17	107	233211	50.26	ug/kg	96
27) bis(2-Chloroethoxy)methane	7.25	93	277822	48.42	ug/kg	97
28) 2,4-Dichlorophenol	7.40	162	247567	53.56	ug/kg	98
29) Benzoic Acid	7.25	105	41557	50.02	ug/kg	87
30) 1,2,4-Trichlorobenzene	7.49	180	302410	48.05	ug/kg	99
31) Naphthalene	7.57	128	815196	44.51	ug/kg	99
32) 4-Chloroaniline	7.60	127	261477m	46.43	ug/kg	
33) Hexachlorobutadiene	7.68	225	194424	49.50	ug/kg	99
34) Caprolactam	7.96	113	77649	53.96	ug/kg	99
35) 4-Chloro-3-methylphenol	8.07	107	215553	55.44	ug/kg	98
36) 2-Methylnaphthalene	8.26	142	853868	71.47	ug/kg	99
37) 1-Methylnaphthalene	8.36	142	808315	70.99	ng/uL	99
39) Hexachlorocyclopentadiene	8.42	237	174270	47.67	ug/kg	100
40) 1,2,4,5-Tetrachlorobenzene	8.43	216	318529	47.37	ug/kg	99
41) 2,4,6-Trichlorophenol	8.53	196	197898	54.87	ug/kg	100
42) 2,4,5-Trichlorophenol	8.58	196	201852	53.70	ug/kg	95

(#) = qualifier out of range (m) = manual integration
AS07395.D 0824ABN.M Fri Oct 12 15:11:49 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\A\DATA\20181011\AS07395.D Vial: 3
Acq On : 11 Oct 2018 14:28 Operator: GCH
Sample : SEQ-CCV Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 12 10:55 2018 Quant Results File: 0824ABN.RES

Quant Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Fri Oct 12 10:53:36 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270A

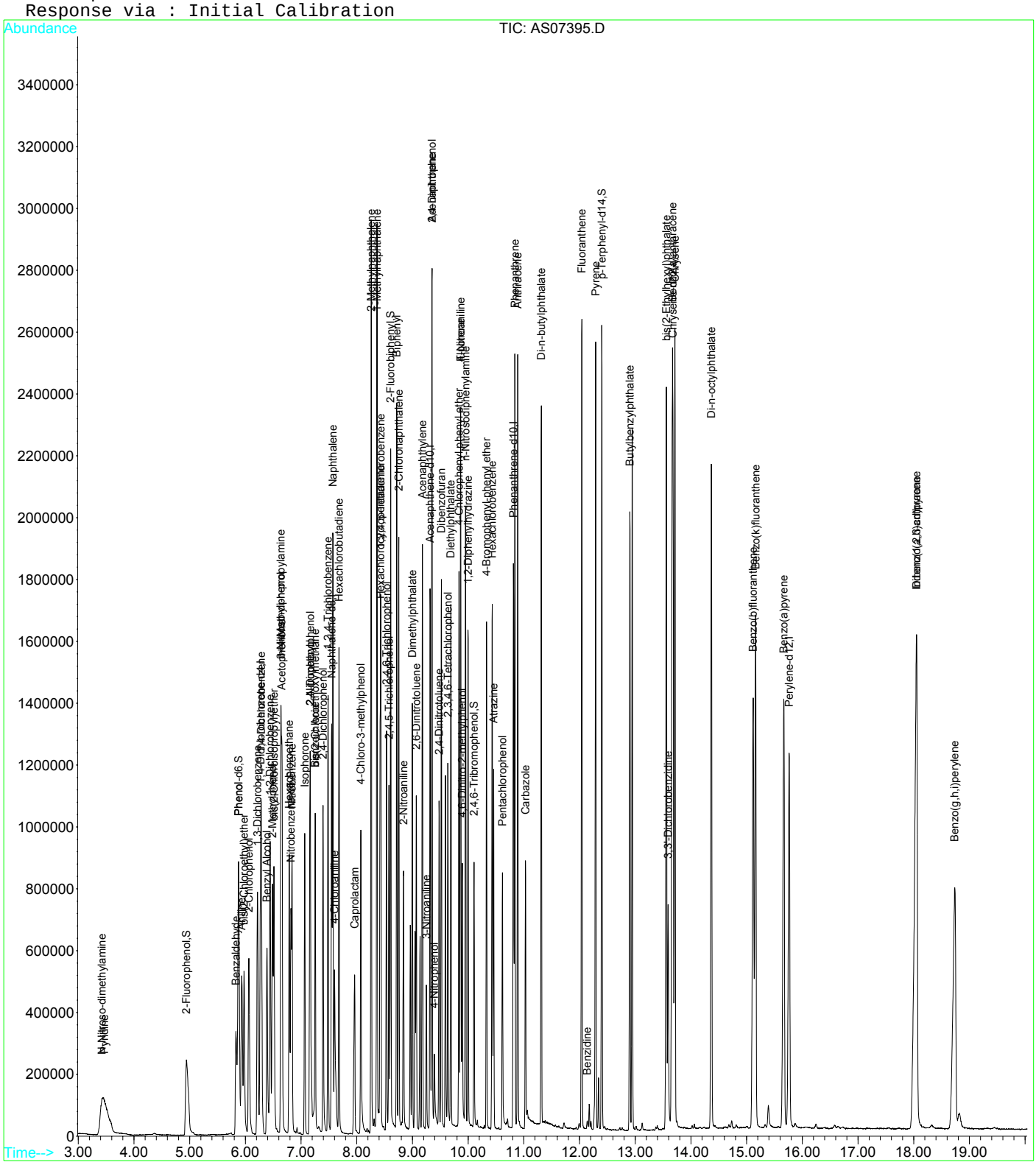
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) Biphenyl	8.72	154	688187	45.53	ug/kg	99
45) 2-Chloronaphthalene	8.76	162	579935	46.94	ug/kg	99
46) 2-Nitroaniline	8.84	138	180547	53.68	ug/kg	99
47) Dimethylphthalate	9.00	163	616757	46.55	ug/kg	99
48) Acenaphthylene	9.18	152	852949	46.04	ug/kg	100
49) 2,6-Dinitrotoluene	9.07	165	151928	53.45	ug/kg	97
50) 3-Nitroaniline	9.25	138	81868	48.75	ug/kg	98
51) Acenaphthene	9.35	153	573281	46.23	ug/kg	99
52) 2,4-Dinitrophenol	9.35	184	71534	67.53	ug/kg	22
53) Dibenzofuran	9.52	168	760090	46.39	ug/kg	99
54) 4-Nitrophenol	9.39	65	48490m	41.78	ug/kg	
55) 2,4-Dinitrotoluene	9.48	165	208135	57.70	ug/kg	95
56) 2,3,4,6-Tetrachlorophenol	9.63	232	170911m	48.13	ug/kg	
57) Fluorene	9.87	166	634360	45.66	ug/kg	99
58) Diethylphthalate	9.69	149	614439	47.44	ug/kg	99
59) 4-Chlorophenyl phenyl ethe	9.84	204	336541	47.97	ug/kg	98
60) 4-Nitroaniline	9.86	138	67831	41.38	ug/kg	89
62) 4,6-Dinitro-2-methylphenol	9.89	198	131571	70.36	ug/kg	94
63) n-Nitrosodiphenylamine	9.95	169	511968	44.65	ug/kg	99
64) 1,2-Diphenylhydrazine	10.00	77	525766	46.09	ug/kg	96
66) 4-Bromophenyl-phenyl ether	10.33	248	219966	47.93	ug/kg	97
67) Hexachlorobenzene	10.43	284	234108	47.29	ug/kg	100
68) Atrazine	10.46	200	134685	43.54	ug/kg	97
69) Pentachlorophenol	10.61	266	108770	41.00	ug/kg	98
70) Phenanthrene	10.84	178	915634	44.98	ug/kg	99
71) Anthracene	10.89	178	941408	46.02	ug/kg	99
72) Carbazole	11.03	167	595552m	54.06	ug/kg	
73) Di-n-butylphthalate	11.31	149	1092657	47.55	ug/kg	99
74) Fluoranthene	12.04	202	1141024	46.12	ug/kg	99
76) Benzidine	12.14	184	17383m	15.49	ug/kg	
77) Pyrene	12.29	202	1164220	46.37	ug/kg	99
79) Butylbenzylphthalate	12.90	149	526153	49.93	ug/kg	99
80) Benzo(a)anthracene	13.66	228	1177063	46.08	ug/kg	99
81) 3,3'-Dichlorobenzidine	13.59	252	219616	53.90	ug/kg	99
82) Chrysene	13.71	228	1076375	46.25	ug/kg	99
83) bis(2-Ethylhexyl)phthalate	13.56	149	750332	49.43	ug/kg	98
85) Di-n-octylphthalate	14.37	149	1316382	50.68	ug/kg	98
86) Benzo(b)fluoranthene	15.12	252	1081228	47.04	ug/kg	98
87) Benzo(k)fluoranthene	15.16	252	1022916	45.02	ug/kg	97
88) Benzo(a)pyrene	15.67	252	1081317	46.41	ug/kg	99
89) Indeno(1,2,3-cd)pyrene	18.04	276	1259385	49.52	ug/kg#	76
90) Dibenzo(a,h)anthracene	18.05	278	1112454	50.34	ug/kg	99
91) Benzo(g,h,i)perylene	18.74	276	1043066	49.75	ug/kg	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\A\DATA\20181011\AS07395.D Vial: 3
Acq On : 11 Oct 2018 14:28 Operator: GCH
Sample : SEQ-CCV Inst : GCMS-A
Misc : Multiplr: 1.00
MS Integration Params: LSTINT.P
Quant Time: Oct 12 10:55 2018 Quant Results File: 0824ABN.RES

Method : G:\HPCHEM\A\METHODS\0824ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Tue Oct 02 11:16:59 2018
Response via : Initial Calibration



CALIBRATION VERIFICATION SUMMARY

SW 846 8270D

CCV ID: S8J1213-CCV1 **Analyzed:** 10/11/18 12:41

Analyte	Response Factor	Expected Result	Result	% Drift	Limit(s)
1-Methylnaphthalene	0.6170175	75.20	66.61	11	30
2,3,4,6-Tetrachlorophenol	0.2210259	50.00	44.46	11	30
2,4,5-Trichlorophenol	0.3713432	50.00	48.91	2	30
2,4,6-Trichlorophenol	0.3678283	50.00	47.71	5	20 (CCC)
2,4-Dichlorophenol	0.2786784	50.00	47.27	5	20 (CCC)
2,4-Dimethylphenol	0.3406714	50.00	51.82	4	30
2,4-Dinitrophenol	0.1517089	50.00	44.58	11	0.05 (SPCC)
2,4-Dinitrotoluene	0.4696406	50.00	51.84	4	30
2,6-Dinitrotoluene	0.3549094	50.00	49.82	0	30
2-Chloronaphthalene	1.262154	50.00	46.88	6	30
2-Chlorophenol	1.414604	50.00	46.59	7	30
2-Methylnaphthalene	0.6290265	75.20	66.40	12	30
2-Methylphenol	1.25947	50.00	48.76	2	30
2-Nitroaniline	0.4579944	50.00	50.29	1	30
2-Nitrophenol	0.193405	50.00	49.02	2	20 (CCC)
3,3'-Dichlorobenzidine	0.3423161	50.00	39.98	20	30
3+4-Methylphenol	1.297142	50.00	46.34	7	30
3-Nitroaniline	0.3855607	50.00	48.12	4	30
4,6-Dinitro-2-methylphenol	0.1204901	50.00	42.28	15	30
4-Bromophenyl-phenyl ether	0.1749858	50.00	45.63	9	30
4-Chloro-3-methylphenol	0.3176657	50.00	51.18	2	20 (CCC)
4-Chloroaniline	0.430819	50.00	48.58	3	30
4-Chlorophenyl phenyl ether	0.5674663	50.00	42.80	14	30
4-Nitroaniline	0.3513361	50.00	46.45	7	30
4-Nitrophenol	0.2322004	50.00	50.71	1	0.05 (SPCC)
Acenaphthene	1.279867	50.00	47.34	5	20 (CCC)
Acenaphthylene	1.944157	50.00	45.43	9	30
Acetophenone	1.78983	50.00	47.55	5	30
Anthracene	1.043079	50.00	44.93	10	30
Atrazine	0.1509149	50.00	42.26	15	30
Benzaldehyde	0.7565848	50.00	40.70	19	30
Benzo(a)anthracene	1.178373	50.00	45.22	10	30
Benzo(a)pyrene	1.034226	50.00	45.92	8	20 (CCC)
Benzo(b)fluoranthene	0.9878955	50.00	44.73	11	30
Benzo(g,h,i)perylene	0.9405901	50.00	45.13	10	30
Benzo(k)fluoranthene	1.064207	50.00	47.39	5	30
Biphenyl	1.651505	50.00	48.93	2	30
bis(2-chloroethoxy)methane	0.4024938	50.00	48.84	2	30
bis(2-chloroethyl)ether	1.332693	50.00	46.20	8	30
bis(2-chloroisopropyl)ether	2.183828	50.00	44.80	10	30
bis(2-ethylhexyl)phthalate	1.12361	50.00	52.50	5	30
Butylbenzylphthalate	0.8560527	50.00	52.97	6	30
Caprolactam	0.1196928	50.00	47.35	5	30
Carbazole	1.049554	50.00	46.66	7	30
Chrysene	1.09854	50.00	44.12	12	30
Dibenzo(a,h)anthracene	0.9746596	50.00	45.57	9	30
Dibenzofuran	1.642075	50.00	45.58	9	30

F-VII

CALIBRATION VERIFICATION SUMMARY

SW 846 8270D

CCV ID: S8J1213-CCV1 **Analyzed:** 10/11/18 12:41

Analyte	Response Factor	Expected Result	Result	% Drift	Limit(s)
Diethylphthalate	1.402559	50.00	49.27	1	30
Dimethylphthalate	1.366886	50.00	48.14	4	30
Di-n-butylphthalate	1.288366	50.00	47.03	6	30
Di-n-octylphthalate	1.912487	50.00	54.01	8	20 (CCC)
Fluoranthene	1.067539	50.00	44.25	12	20 (CCC)
Fluorene	1.316505	50.00	43.87	12	30
Hexachlorobenzene	0.1800945	50.00	40.75	19	30
Hexachlorobutadiene	0.1321879	50.00	43.52	13	20 (CCC)
Hexachlorocyclopentadiene	0.2175306	50.00	44.30	11	0.05 (SPCC)
Hexachloroethane	0.6155156	50.00	46.51	7	30
Indeno(1,2,3-cd)pyrene	1.120793	50.00	45.27	9	30
Isophorone	0.5648747	50.00	48.78	2	30
Naphthalene	1.036528	50.00	45.92	8	30
Nitrobenzene	0.3979684	50.00	51.34	3	30
n-Nitroso-dimethylamine	0.7850718	50.00	54.45	9	30
n-Nitroso-di-n-propylamine	0.9614274	50.00	48.34	3	0.05 (SPCC)
n-Nitrosodiphenylamine	0.6527311	50.00	47.23	6	20 (CCC)
Pentachlorophenol	6.390914E-02	50.00	40.65	19	20 (CCC)
Phenanthrene	1.051483	50.00	45.85	8	30
Phenol	1.729527	50.00	49.46	1	20 (CCC)
Pyrene	1.483093	50.00	48.38	3	30

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18768.D Vial: 3
Acq On : 11 Oct 2018 12:41 Operator: GCH
Sample : SEQ-CCV@X50 Inst : GCMS-D
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:27 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Fri Oct 12 10:26:51 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.54	152	199193	40.00	ug/kg	0.00
22) Naphthalene-d8	6.82	136	754665	40.00	ug/kg	0.00
39) Acenaphthene-d10	8.58	164	369629	40.00	ug/kg	0.00
62) Phenanthrene-d10	10.05	188	661777	40.00	ug/kg	0.00
76) Chrysene-d12	12.76	240	480148	40.00	ug/kg	0.00
85) Perylene-d12	14.45	264	499614	40.00	ug/kg	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.18	112	331696	48.58	ug/kg	-0.03
Spiked Amount 100.000	Range 15 - 62		Recovery = 48.58%			
8) Phenol-d6	5.17	99	428944	49.47	ug/kg	-0.01
Spiked Amount 100.000	Range 15 - 45		Recovery = 49.47%#			
23) Nitrobenzene-d5	6.10	82	365749	52.08	ug/kg	-0.06
Spiked Amount 50.000	Range 32 - 101		Recovery = 104.16%#			
44) 2-Fluorobiphenyl	7.89	172	628427	46.05	ug/kg	-0.03
Spiked Amount 50.000	Range 36 - 103		Recovery = 92.10%			
66) 2,4,6-Tribromophenol	9.36	330	61943	44.29	ug/kg	-0.04
Spiked Amount 100.000	Range 28 - 167		Recovery = 44.29%			
79) p-Terphenyl-d14	11.62	244	555171	50.59	ug/kg	0.05
Spiked Amount 50.000	Range 44 - 117		Recovery = 101.18%			
Target Compounds						Qvalue
3) N-nitrosodimethylamine	2.32	42	195476	54.45	ng/uL	95
4) Pyridine	2.38	79	427564	48.40	ng/uL	100
6) Benzaldehyde	5.09	77	188383	40.70	ug/kg	99
7) Aniline	5.20	93	490041	47.26	ug/kg	97
9) Phenol	5.18	94	430637	49.46	ug/kg	95
10) bis(2-Chloroethyl)ether	5.27	93	331829	46.20	ug/kg	96
11) 2-Chlorophenol	5.33	128	352224	46.59	ug/kg	97
12) 1,3-Dichlorobenzene	5.49	146	382027	45.99	ug/kg	97
13) 1,4-Dichlorobenzene	5.56	146	356141	44.70	ug/kg	98
14) Benzyl Alcohol	5.68	108	239976	53.39	ug/kg	97
15) 1,2-Dichlorobenzene	5.72	146	357907	44.71	ug/kg	99
16) 2-Methylphenol	5.79	108	313597	48.76	ug/kg	97
17) bis(2-Chloroisopropyl)ethe	5.81	45	543754	44.80	ug/kg	80
18) Acetophenone	5.94	105	445652	47.55	ug/kg	93
19) 3+4-Methylphenol	5.94	108	322977	46.34	ug/kg	94
20) n-Nitroso-di-n-propylamine	5.94	70	239387	48.34	ug/kg	93
21) Hexachloroethane	6.06	117	153258	46.51	ug/kg	98
24) Nitrobenzene	6.12	77	375416	51.34	ug/kg	95
25) Isophorone	6.35	82	532864	48.78	ug/kg	97
26) 2-Nitrophenol	6.44	139	182445	49.02	ug/kg	95
27) 2,4-Dimethylphenol	6.48	107	321366	51.82	ug/kg	96
28) bis(2-Chloroethoxy)methane	6.56	93	379685	48.84	ug/kg	98
29) 2,4-Dichlorophenol	6.68	162	262886	47.27	ug/kg	100
30) Benzoic Acid	6.47	105	18281m	26.66	ug/kg	
31) 1,2,4-Trichlorobenzene	6.77	180	281093	44.02	ug/kg	95
32) Naphthalene	6.85	128	977789	45.92	ug/kg	99
33) 4-Chloroaniline	6.89	127	406405	48.58	ug/kg	98
34) Hexachlorobutadiene	6.97	225	124697	43.52	ug/kg	96
35) Caprolactam	7.22	113	112910	47.35	ug/kg	90
36) 4-Chloro-3-methylphenol	7.37	107	299664	51.18	ug/kg	92
37) 2-Methylnaphthalene	7.54	142	892444	66.40	ug/kg	98
38) 1-Methylnaphthalene	7.63	142	875406	66.61	ng/uL	99
40) Hexachlorocyclopentadiene	7.70	237	100507	44.30	ug/kg	98
41) 1,2,4,5-Tetrachlorobenzene	7.71	216	226743	44.22	ug/kg	100
42) 2,4,6-Trichlorophenol	7.82	196	169950m	47.71	ug/kg	
43) 2,4,5-Trichlorophenol	7.85	196	171574	48.91	ug/kg	94

(#) = qualifier out of range (m) = manual integration
DS18768.D 0802ABN.M Tue Oct 16 12:43:47 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\D\DATA\20181011\DS18768.D Vial: 3
Acq On : 11 Oct 2018 12:41 Operator: GCH
Sample : SEQ-CCV@X50 Inst : GCMS-D
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:27 2018 Quant Results File: 0802ABN.RES

Quant Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Fri Oct 12 10:26:51 2018
Response via : Initial Calibration
DataAcq Meth : RUN8270B

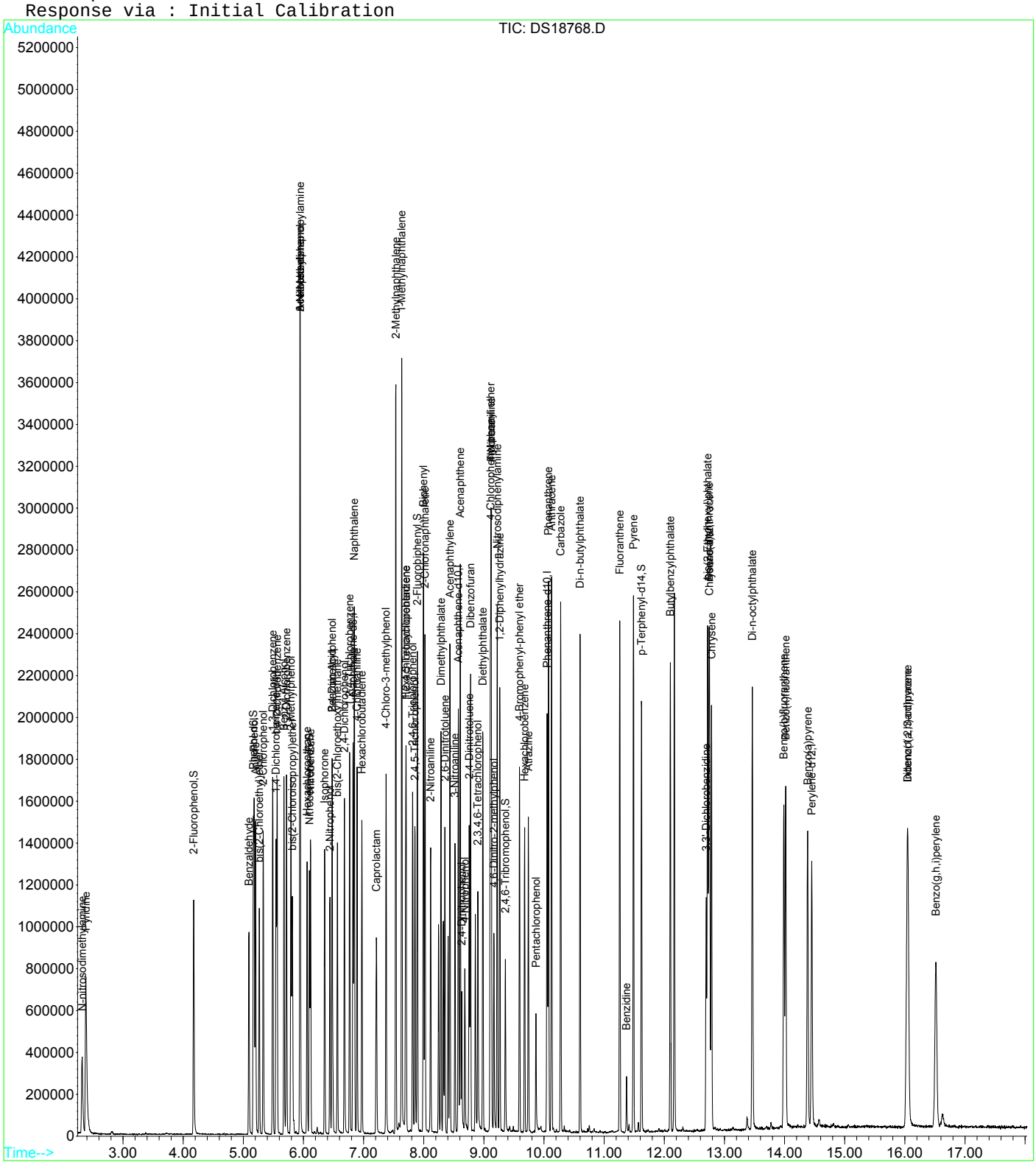
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	Biphenyl	7.99	154	763055	48.93	ug/kg	99
46)	2-Chloronaphthalene	8.02	162	583161	46.88	ug/kg	97
47)	2-Nitroaniline	8.12	138	211610	50.29	ug/kg	93
48)	Dimethylphthalate	8.29	163	631551	48.14	ug/kg	95
49)	Acenaphthylene	8.44	152	898271	45.42	ug/kg	99
50)	2,6-Dinitrotoluene	8.35	165	163981	49.82	ug/kg	95
51)	3-Nitroaniline	8.52	138	178143	48.12	ug/kg	90
52)	Acenaphthene	8.61	153	591345	47.34	ug/kg	96
53)	2,4-Dinitrophenol	8.63	184	70095	44.58	ug/kg	63
54)	Dibenzofuran	8.78	168	758698	45.58	ug/kg	98
55)	4-Nitrophenol	8.68	65	107285	50.71	ug/kg	97
56)	2,4-Dinitrotoluene	8.76	165	216991	51.84	ug/kg	90
57)	2,3,4,6-Tetrachlorophenol	8.90	232	102122	44.45	ug/kg	92
58)	Fluorene	9.12	166	608273	43.87	ug/kg	99
59)	Diethylphthalate	8.98	149	648033	49.27	ug/kg	98
60)	4-Chlorophenyl phenyl ethe	9.11	204	262190	42.80	ug/kg	92
61)	4-Nitroaniline	9.13	138	162330	46.45	ug/kg	88
63)	4,6-Dinitro-2-methylphenol	9.17	198	99672	42.28	ug/kg	89
64)	n-Nitrosodiphenylamine	9.22	169	539953	47.23	ug/kg	99
65)	1,2-Diphenylhydrazine	9.26	77	739137	51.02	ug/kg	94
67)	4-Bromophenyl-phenyl ether	9.59	248	144752	45.63	ug/kg	91
68)	Hexachlorobenzene	9.68	284	148978	40.75	ug/kg	99
69)	Atrazine	9.74	200	124840	42.26	ug/kg	96
70)	Pentachlorophenol	9.87	266	52867m	40.65	ug/kg	
71)	Phenanthrene	10.07	178	869809	45.85	ug/kg	100
72)	Anthracene	10.13	178	862857	44.93	ug/kg	99
73)	Carbazole	10.28	167	868213	46.66	ug/kg	97
74)	Di-n-butylphthalate	10.60	149	1065764	47.03	ug/kg	98
75)	Fluoranthene	11.26	202	883091	44.25	ug/kg	98
77)	Benzidine	11.37	184	88261	9.21	ug/kg	98
78)	Pyrene	11.49	202	890130	48.38	ug/kg	98
80)	Butylbenzylphthalate	12.10	149	513790	52.97	ug/kg	97
81)	Benzo(a)anthracene	12.74	228	707242	45.22	ug/kg	100
82)	3,3'-Dichlorobenzidine	12.70	252	205453	39.98	ug/kg	99
83)	Chrysene	12.79	228	659327	44.12	ug/kg	98
84)	bis(2-Ethylhexyl)phthalate	12.72	149	674374	52.50	ug/kg	98
86)	Di-n-octylphthalate	13.46	149	1147846	54.01	ug/kg	97
87)	Benzo(b)fluoranthene	13.99	252	616958	44.73	ug/kg	98
88)	Benzo(k)fluoranthene	14.02	252	664616m	47.39	ug/kg	
89)	Benzo(a)pyrene	14.38	252	645892	45.92	ug/kg	99
90)	Indeno(1,2,3-cd)pyrene	16.04	276	699955	45.27	ug/kg	98
91)	Dibenzo(a,h)anthracene	16.05	278	608692	45.57	ug/kg	97
92)	Benzo(g,h,i)perylene	16.51	276	587415	45.13	ug/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\D\DATA\20181011\DS18768.D Vial: 3
Acq On : 11 Oct 2018 12:41 Operator: GCH
Sample : SEQ-CCV@X50 Inst : GCMS-D
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:27 2018 Quant Results File: 0802ABN.RES

Method : G:\HPCHEM\D\METHODS\0802ABN.M (RTE Integrator)
Title : BNA Extractables GC/MS 8270D
Last Update : Mon Oct 15 10:25:43 2018
Response via : Initial Calibration



INTERNAL STANDARD REPORT

Analysis Class: SEMIVOLATILES **Analysis Batch:** S8J1212

		DCB-D4		NAP-D8		ACE-D10		PHE-D10		CHR-D12		PER-D12	
Lab Number	File ID	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt
8100452-10	AS07396.D	137601	6.27	525512	7.54	279789	9.31	528787	10.81	578999	13.67	603659	15.75
8100452-11	AS07397.D	144157	6.27	544435	7.54	292101	9.31	558645	10.81	606407	13.67	627427	15.75
8100452-12	AS07398.D	160040	6.26	621406	7.54	331206	9.31	635462	10.81	691875	13.67	723702	15.76
8100452-13	AS07399.D	144929	6.27	551744	7.54	296526	9.31	563939	10.81	621689	13.67	638170	15.75
8100452-14	AS07400.D	139395	6.27	542847	7.54	286684	9.31	546847	10.81	598306	13.67	626870	15.75
8100452-09	AS07401.D	148181	6.27	560064	7.54	296470	9.31	568102	10.81	628942	13.67	651720	15.76

Reference Std ID
S8J1212-CCV1

	Internal Standard	Ref Area	Area Limit	Ref RT	RT Limit
DCB-D4	1,4-Dichlorobenzene-d4	171909	85,954.50 - 343,818.00	6.27	0.50
NAP-D8	Naphthalene-d8	668028	334,014.00 - 1,336,056.00	7.55	0.50
ACE-D10	Acenaphthene-d10	361834	180,917.00 - 723,668.00	9.32	0.50
PHE-D10	Phenanthrene-d10	711170	355,585.00 - 1,422,340.00	10.81	0.50
CHR-D12	Chrysene-d12	779517	389,758.50 - 1,559,034.00	13.68	0.50
PER-D12	Perylene-d12	840849	420,424.50 - 1,681,698.00	15.76	0.50

* - Outside of QC Limits

F-VIII

INTERNAL STANDARD REPORT

Analysis Class: SEMIVOLATILES **Analysis Batch:** S8J1213

		DCB-D4		NAP-D8		ACE-D10		PHE-D10		CHR-D12		PER-D12	
Lab Number	File ID	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt
B8J1101-BLK1	DS18769.D	169814	5.55	643038	6.83	307744	8.58	545070	10.05	412629	12.75	408173	14.45
8100452-01	DS18771.D	162070	5.55	608163	6.83	299587	8.57	519499	10.05	391750	12.76	379160	14.45
8100452-02	DS18772.D	182818	5.55	695780	6.82	358130	8.57	600167	10.05	442655	12.75	426788	14.45
8100452-03	DS18773.D	167877	5.55	627978	6.82	308607	8.57	531137	10.05	397045	12.75	381767	14.45
8100452-04	DS18774.D	162627	5.55	625040	6.82	296500	8.57	521121	10.05	383151	12.75	361524	14.45
8100452-05	DS18775.D	159249	5.54	609200	6.83	307467	8.57	538317	10.05	389183	12.75	380947	14.45
8100452-06	DS18776.D	159499	5.55	607328	6.83	297278	8.57	519141	10.05	384901	12.75	374104	14.45
8100452-07	DS18777.D	174325	5.55	649764	6.83	323492	8.57	554925	10.05	419384	12.75	388875	14.45
8100452-08	DS18778.D	160052	5.54	608878	6.83	294400	8.57	519881	10.05	381925	12.76	375896	14.45

Reference Std ID
S8J1213-CCV1

	Internal Standard	Ref Area	Area Limit	Ref RT	RT Limit
DCB-D4	1,4-Dichlorobenzene-d4	199193	99,596.50 - 398,386.00	5.54	0.50
NAP-D8	Naphthalene-d8	754665	377,332.50 - 1,509,330.00	6.82	0.50
ACE-D10	Acenaphthene-d10	369629	184,814.50 - 739,258.00	8.58	0.50
PHE-D10	Phenanthrene-d10	661777	330,888.50 - 1,323,554.00	10.05	0.50
CHR-D12	Chrysene-d12	480148	240,074.00 - 960,296.00	12.76	0.50
PER-D12	Perylene-d12	499614	249,807.00 - 999,228.00	14.45	0.50

* - Outside of QC Limits

F-VIII

VOLATILES

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1111-BLK1**		

Init/Final Vol:	5 g / 5 mL	Prep Date:	10/10/2018 15:02	File ID:	3V33994.D
		Prep Batch:	B8J1111	Analyzed:	10/10/2018 15:02
		Matrix:	Soil	Sequence:	S8J1704
		Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000292	0.00200	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000276	0.00200	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000856	0.00200	U
79-00-5	1,1,2-Trichloroethane	ND	0.000337	0.00200	U
75-34-3	1,1-Dichloroethane	ND	0.000292	0.00200	U
75-35-4	1,1-Dichloroethene	ND	0.000370	0.00200	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000432	0.00200	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000533	0.00200	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000276	0.00200	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000488	0.00200	U
106-93-4	1,2-Dibromoethane	ND	0.000252	0.00200	U
95-50-1	1,2-Dichlorobenzene	ND	0.000353	0.00200	U
107-06-2	1,2-Dichloroethane	ND	0.000282	0.00200	U
78-87-5	1,2-Dichloropropane	ND	0.000328	0.00200	U
541-73-1	1,3-Dichlorobenzene	ND	0.000147	0.00200	U
106-46-7	1,4-Dichlorobenzene	ND	0.000288	0.00200	U
78-93-3	2-Butanone	ND	0.000326	0.00500	U
591-78-6	2-Hexanone	ND	0.000187	0.00200	U
108-10-1	4-Methyl-2-pentanone	ND	0.000250	0.00200	U
67-64-1	Acetone	ND	0.000606	0.00500	U
71-43-2	Benzene	ND	0.000182	0.00200	U
74-97-5	Bromochloromethane	ND	0.000369	0.00200	U
75-27-4	Bromodichloromethane	ND	0.000251	0.00200	U
75-25-2	Bromoform	ND	0.000351	0.00200	U
74-83-9	Bromomethane	ND	0.000577	0.00200	U
75-15-0	Carbon disulfide	ND	0.000287	0.00200	U
56-23-5	Carbon Tetrachloride	ND	0.000301	0.00200	U
108-90-7	Chlorobenzene	ND	0.000290	0.00200	U
124-48-1	Chlorodibromomethane	ND	0.000246	0.00200	U
75-00-3	Chloroethane	ND	0.000341	0.00200	U
67-66-3	Chloroform	ND	0.000336	0.00200	U

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ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1111-BLK1**		

Init/Final Vol:	5 g / 5 mL	Prep Date:	10/10/2018 15:02	File ID:	3V33994.D
		Prep Batch:	B8J1111	Analyzed:	10/10/2018 15:02
		Matrix:	Soil	Sequence:	S8J1704
		Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
74-87-3	Chloromethane	ND	0.000770	0.00200	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000967	0.00200	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000253	0.00200	U
110-82-7	Cyclohexane	ND	0.000443	0.00200	U
75-71-8	Dichlorodifluoromethane	ND	0.000675	0.00200	U
100-41-4	EthylBenzene	ND	0.000271	0.00200	U
98-82-8	Isopropylbenzene	ND	0.000314	0.00200	U
179601-23-1	m+p-Xylenes	ND	0.000505	0.00400	U
79-20-9	Methyl Acetate	ND	0.000265	0.00200	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000338	0.00200	U
108-87-2	Methylcyclohexane	ND	0.000322	0.00200	U
75-09-2	Methylene Chloride	ND	0.000601	0.00200	U
95-47-6	o-Xylene	ND	0.000257	0.00200	U
100-42-5	Styrene	ND	0.000286	0.00200	U
75-65-0	tert-Butyl alcohol	ND	0.00420	0.0200	U
127-18-4	Tetrachloroethene	ND	0.000198	0.00200	U
108-88-3	Toluene	ND	0.000161	0.00200	U
1330-20-7	Total Xylenes	ND	0.000257	0.00200	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000271	0.00200	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000382	0.00200	U
79-01-6	Trichloroethene	ND	0.000294	0.00200	U
75-69-4	Trichlorofluoromethane	ND	0.000230	0.00200	U
75-01-4	Vinyl chloride	ND	0.000380	0.00200	U

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ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1111-BLK1**		

		Prep Date:	10/10/2018 15:02	File ID:	3V33994.D
Init/Final Vol:	5 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/2018 15:02
		Matrix:	Soil	Sequence:	S8J1704
		Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg wet)	RT	Q
	Sum of Tentatively Identified Compounds	0.000		

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Quantitation Report (QT/LSC Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V33994.D Vial: 45
Acq On : 10 Oct 2018 15:02 Operator: omd
Sample : B8J1111-BLK1 Inst : GCMS-3
Misc : soil re Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:24 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.49	168	145721	50.00	ug/kg	0.03
33) 1,4-Difluorobenzene	8.91	114	275232	50.00	ug/kg	0.02
52) Chlorobenzene-d5	14.07	82	144968	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.06	152	125977	50.00	ug/kg	0.00
System Monitoring Compounds						
26) Dibromofluoromethane	7.37	113	99990	56.41	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 112.82%			
43) Toluene-d8	11.54	98	325733	52.62	ug/kg	0.02
Spiked Amount 50.000	Range 66 - 134		Recovery = 105.24%			
62) 4-Bromofluorobenzene	16.11	95	145973	59.76	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.52%			

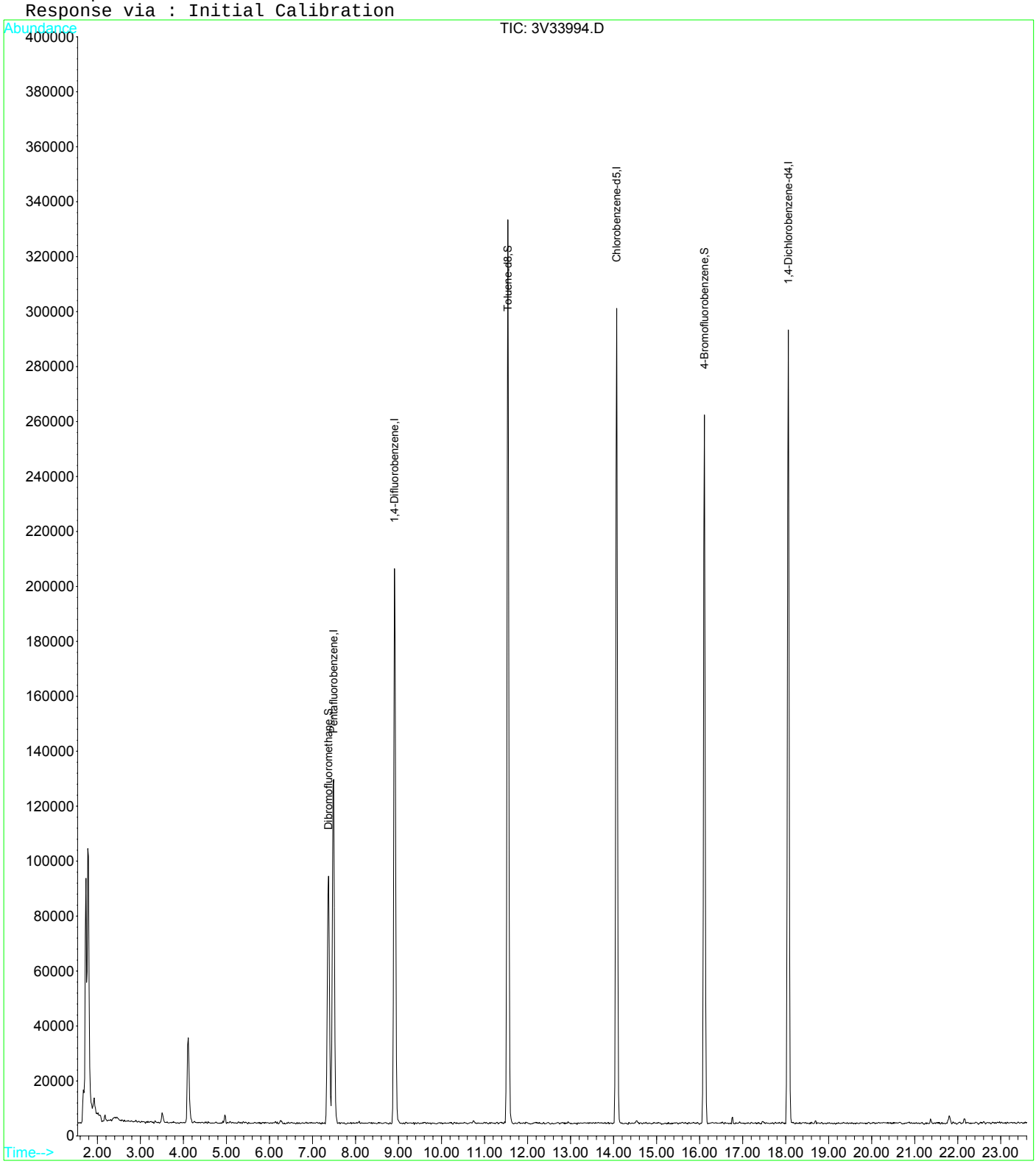
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V33994.D 0717WC3.M Wed Oct 17 12:06:31 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V33994.D Vial: 45
Acq On : 10 Oct 2018 15:02 Operator: omd
Sample : B8J1111-BLK1 Inst : GCMS-3
Misc : soil re Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:24 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



3V33994.D 0717WC3.M Wed Oct 17 12:06:31 2018 SS Page 2

15 15.1.

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1141-BLK1**		

Init/Final Vol:	5 g / 5 mL	Prep Date:	10/11/2018 13:05	File ID:	3V34019.D
		Prep Batch:	B8J1141	Analyzed:	10/11/2018 13:05
		Matrix:	Soil	Sequence:	S8J1706
		Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000292	0.00200	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000276	0.00200	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000856	0.00200	U
79-00-5	1,1,2-Trichloroethane	ND	0.000337	0.00200	U
75-34-3	1,1-Dichloroethane	ND	0.000292	0.00200	U
75-35-4	1,1-Dichloroethene	ND	0.000370	0.00200	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000432	0.00200	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000533	0.00200	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000276	0.00200	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000488	0.00200	U
106-93-4	1,2-Dibromoethane	ND	0.000252	0.00200	U
95-50-1	1,2-Dichlorobenzene	ND	0.000353	0.00200	U
107-06-2	1,2-Dichloroethane	ND	0.000282	0.00200	U
78-87-5	1,2-Dichloropropane	ND	0.000328	0.00200	U
541-73-1	1,3-Dichlorobenzene	ND	0.000147	0.00200	U
106-46-7	1,4-Dichlorobenzene	ND	0.000288	0.00200	U
78-93-3	2-Butanone	ND	0.000326	0.00500	U
591-78-6	2-Hexanone	ND	0.000187	0.00200	U
108-10-1	4-Methyl-2-pentanone	ND	0.000250	0.00200	U
67-64-1	Acetone	ND	0.000606	0.00500	U
71-43-2	Benzene	ND	0.000182	0.00200	U
74-97-5	Bromochloromethane	ND	0.000369	0.00200	U
75-27-4	Bromodichloromethane	ND	0.000251	0.00200	U
75-25-2	Bromoform	ND	0.000351	0.00200	U
74-83-9	Bromomethane	ND	0.000577	0.00200	U
75-15-0	Carbon disulfide	ND	0.000287	0.00200	U
56-23-5	Carbon Tetrachloride	ND	0.000301	0.00200	U
108-90-7	Chlorobenzene	ND	0.000290	0.00200	U
124-48-1	Chlorodibromomethane	ND	0.000246	0.00200	U
75-00-3	Chloroethane	ND	0.000341	0.00200	U
67-66-3	Chloroform	ND	0.000336	0.00200	U

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ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1141-BLK1**		

Init/Final Vol:	5 g / 5 mL	Prep Date:	10/11/2018 13:05	File ID:	3V34019.D
		Prep Batch:	B8J1141	Analyzed:	10/11/2018 13:05
		Matrix:	Soil	Sequence:	S8J1706
		Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Q
74-87-3	Chloromethane	ND	0.000770	0.00200	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000967	0.00200	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000253	0.00200	U
110-82-7	Cyclohexane	ND	0.000443	0.00200	U
75-71-8	Dichlorodifluoromethane	ND	0.000675	0.00200	U
100-41-4	EthylBenzene	ND	0.000271	0.00200	U
98-82-8	Isopropylbenzene	ND	0.000314	0.00200	U
179601-23-1	m+p-Xylenes	ND	0.000505	0.00400	U
79-20-9	Methyl Acetate	ND	0.000265	0.00200	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000338	0.00200	U
108-87-2	Methylcyclohexane	ND	0.000322	0.00200	U
75-09-2	Methylene Chloride	ND	0.000601	0.00200	U
95-47-6	o-Xylene	ND	0.000257	0.00200	U
100-42-5	Styrene	ND	0.000286	0.00200	U
75-65-0	tert-Butyl alcohol	ND	0.00420	0.0200	U
127-18-4	Tetrachloroethene	ND	0.000198	0.00200	U
108-88-3	Toluene	ND	0.000161	0.00200	U
1330-20-7	Total Xylenes	ND	0.000257	0.00200	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000271	0.00200	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000382	0.00200	U
79-01-6	Trichloroethene	ND	0.000294	0.00200	U
75-69-4	Trichlorofluoromethane	ND	0.000230	0.00200	U
75-01-4	Vinyl chloride	ND	0.000380	0.00200	U

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client:	**Peak Environmental**	**Project:**	**Ridgewood**
Client Sample ID:	**Blank**	**Work Order:**	**8100452**
Lab Sample ID:	**B8J1141-BLK1**		

		Prep Date:	10/11/2018 13:05	File ID:	3V34019.D
Init/Final Vol:	5 g / 5 mL	Prep Batch:	B8J1141	Analyzed:	10/11/2018 13:05
		Matrix:	Soil	Sequence:	S8J1706
		Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg wet)	RT	Q
	Sum of Tentatively Identified Compounds	0.000		

F-I

Quantitation Report (QT/LSC Reviewed)

Data File : G:\HPCHEM\3\DATA\10112018\3V34019.D Vial: 74
Acq On : 11 Oct 2018 13:05 Operator: omd
Sample : B8J1141-BLK1 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 12:27 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.54	168	160008	50.00	ug/kg	0.07
33) 1,4-Difluorobenzene	8.95	114	297018	50.00	ug/kg	0.06
52) Chlorobenzene-d5	14.12	82	159603	50.00	ug/kg	0.06
74) 1,4-Dichlorobenzene-d4	18.11	152	134115	50.00	ug/kg	0.04
System Monitoring Compounds						
26) Dibromofluoromethane	7.42	113	105989	54.46	ug/kg	0.07
Spiked Amount 50.000	Range 59 - 147		Recovery = 108.92%			
43) Toluene-d8	11.59	98	357963	53.58	ug/kg	0.06
Spiked Amount 50.000	Range 66 - 134		Recovery = 107.16%			
62) 4-Bromofluorobenzene	16.14	95	157684	58.64	ug/kg	0.04
Spiked Amount 50.000	Range 64 - 125		Recovery = 117.28%			

Target Compounds Qvalue

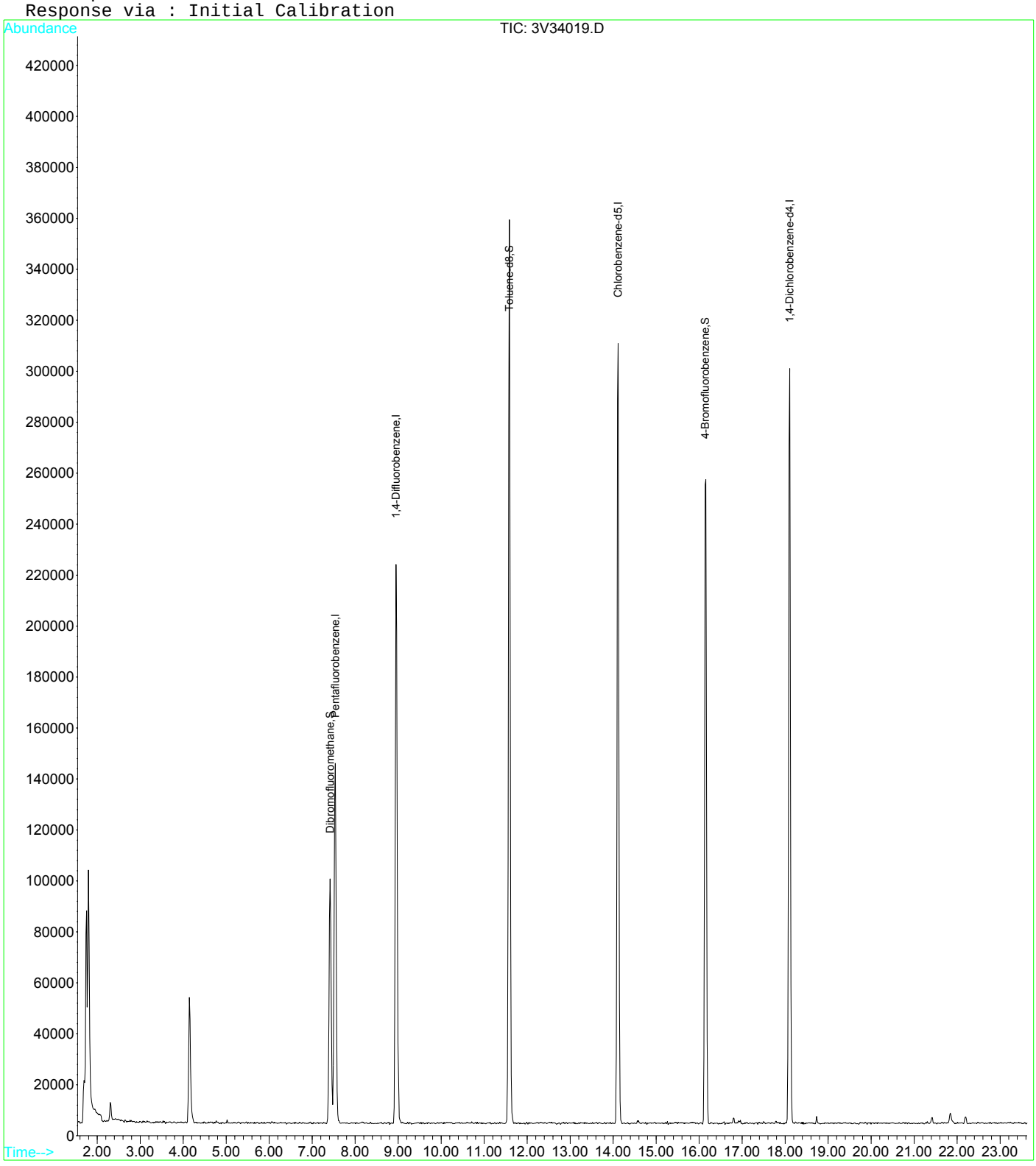
(#) = qualifier out of range (m) = manual integration
3V34019.D 0717WC3.M Wed Oct 17 12:26:09 2018 SS Page 1

15 15.1.

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10112018\3V34019.D Vial: 74
Acq On : 11 Oct 2018 13:05 Operator: omd
Sample : B8J1141-BLK1 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 17 12:27 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



3V34019.D 0717WC3.M Wed Oct 17 12:26:09 2018 SS Page 2

15 15.1.

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 18:59	File ID:	3V34002.D
Init/Final Vol:	9.1 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 18:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	89.91	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000178	0.00122	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000169	0.00122	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000523	0.00122	U
79-00-5	1,1,2-Trichloroethane	ND	0.000206	0.00122	U
75-34-3	1,1-Dichloroethane	ND	0.000178	0.00122	U
75-35-4	1,1-Dichloroethene	ND	0.000226	0.00122	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000264	0.00122	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000326	0.00122	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000169	0.00122	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000298	0.00122	U
106-93-4	1,2-Dibromoethane	ND	0.000154	0.00122	U
95-50-1	1,2-Dichlorobenzene	ND	0.000216	0.00122	U
107-06-2	1,2-Dichloroethane	ND	0.000172	0.00122	U
78-87-5	1,2-Dichloropropane	ND	0.000200	0.00122	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000898	0.00122	U
106-46-7	1,4-Dichlorobenzene	ND	0.000176	0.00122	U
78-93-3	2-Butanone	ND	0.000199	0.00306	U
591-78-6	2-Hexanone	ND	0.000114	0.00122	U
108-10-1	4-Methyl-2-pentanone	ND	0.000153	0.00122	U
67-64-1	Acetone	ND	0.000370	0.00306	U
71-43-2	Benzene	ND	0.000111	0.00122	U
74-97-5	Bromochloromethane	ND	0.000226	0.00122	U
75-27-4	Bromodichloromethane	ND	0.000153	0.00122	U
75-25-2	Bromoform	ND	0.000215	0.00122	U
74-83-9	Bromomethane	ND	0.000353	0.00122	U
75-15-0	Carbon disulfide	ND	0.000175	0.00122	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 18:59	File ID:	3V34002.D
Init/Final Vol:	9.1 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 18:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	89.91	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000184	0.00122	U
108-90-7	Chlorobenzene	ND	0.000177	0.00122	U
124-48-1	Chlorodibromomethane	ND	0.000150	0.00122	U
75-00-3	Chloroethane	ND	0.000208	0.00122	U
67-66-3	Chloroform	ND	0.000205	0.00122	U
74-87-3	Chloromethane	ND	0.000471	0.00122	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000591	0.00122	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000155	0.00122	U
110-82-7	Cyclohexane	ND	0.000271	0.00122	U
75-71-8	Dichlorodifluoromethane	ND	0.000413	0.00122	U
100-41-4	EthylBenzene	ND	0.000166	0.00122	U
98-82-8	Isopropylbenzene	ND	0.000192	0.00122	U
179601-23-1	m+p-Xylenes	ND	0.000309	0.00244	U
79-20-9	Methyl Acetate	ND	0.000162	0.00122	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000207	0.00122	U
108-87-2	Methylcyclohexane	ND	0.000197	0.00122	U
75-09-2	Methylene Chloride	ND	0.000367	0.00122	U
95-47-6	o-Xylene	ND	0.000157	0.00122	U
100-42-5	Styrene	ND	0.000175	0.00122	U
75-65-0	tert-Butyl alcohol	ND	0.00257	0.0122	U
127-18-4	Tetrachloroethene	0.00329	0.000121	0.00122	
108-88-3	Toluene	ND	0.0000984	0.00122	U
1330-20-7	Total Xylenes	ND	0.000157	0.00122	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000166	0.00122	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000233	0.00122	U
79-01-6	Trichloroethene	ND	0.000180	0.00122	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 18:59	File ID:	3V34002.D
Init/Final Vol:	9.1 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 18:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	89.91	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000141	0.00122	U
75-01-4	Vinyl chloride	ND	0.000232	0.00122	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-1A**
Lab Sample ID: **8100452-01**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 18:59	File ID:	3V34002.D
Init/Final Vol:	9.1 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 18:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	89.91	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34002.D Vial: 53
Acq On : 10 Oct 2018 18:59 Operator: omd
Sample : 8100452-01 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:33 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.49	168	150003	50.00	ug/kg	0.03
33) 1,4-Difluorobenzene	8.92	114	284129	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	152189	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.06	152	132035	50.00	ug/kg	0.00
System Monitoring Compounds						
26) Dibromofluoromethane	7.37	113	105847	58.01	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 116.02%			
43) Toluene-d8	11.54	98	339816	53.17	ug/kg	0.02
Spiked Amount 50.000	Range 66 - 134		Recovery = 106.34%			
62) 4-Bromofluorobenzene	16.11	95	153370	59.81	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.62%			
Target Compounds						Qvalue
49) Tetrachloroethene	12.57	166	7007	5.38	ug/kg	91

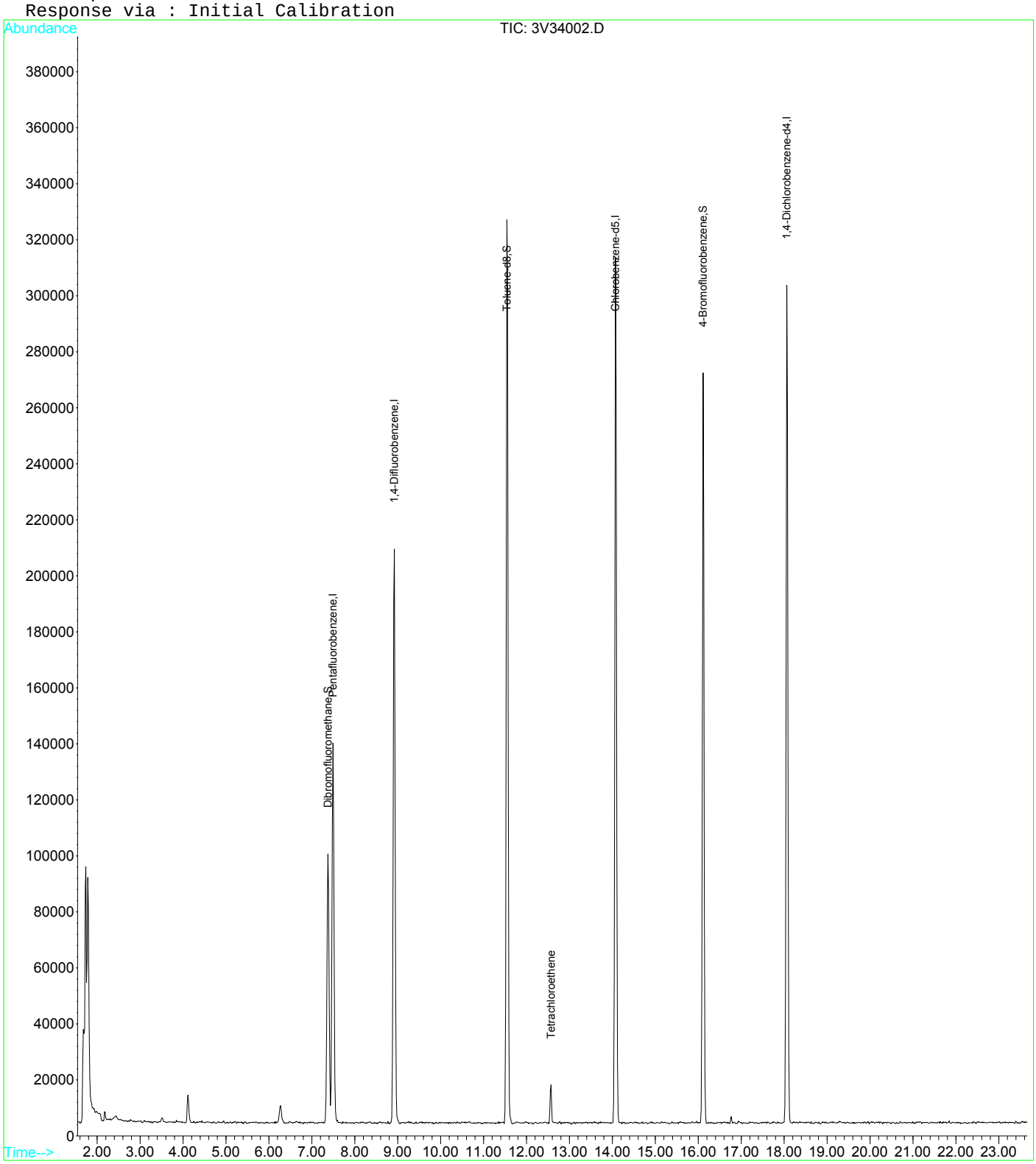
(#) = qualifier out of range (m) = manual integration
3V34002.D 0717WC3.M Thu Oct 11 11:39:55 2018 SS Page 1

15 15.2.

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34002.D Vial: 53
Acq On : 10 Oct 2018 18:59 Operator: omd
Sample : 8100452-01 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:33 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



15 15.2.

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 19:28	File ID:	3V34003.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.54	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000128	0.000879	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000121	0.000879	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000376	0.000879	U
79-00-5	1,1,2-Trichloroethane	ND	0.000148	0.000879	U
75-34-3	1,1-Dichloroethane	ND	0.000128	0.000879	U
75-35-4	1,1-Dichloroethene	ND	0.000163	0.000879	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000190	0.000879	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000234	0.000879	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000121	0.000879	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000214	0.000879	U
106-93-4	1,2-Dibromoethane	ND	0.000111	0.000879	U
95-50-1	1,2-Dichlorobenzene	ND	0.000155	0.000879	U
107-06-2	1,2-Dichloroethane	ND	0.000124	0.000879	U
78-87-5	1,2-Dichloropropane	ND	0.000144	0.000879	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000646	0.000879	U
106-46-7	1,4-Dichlorobenzene	ND	0.000127	0.000879	U
78-93-3	2-Butanone	ND	0.000143	0.00220	U
591-78-6	2-Hexanone	ND	0.0000821	0.000879	U
108-10-1	4-Methyl-2-pentanone	ND	0.000110	0.000879	U
67-64-1	Acetone	ND	0.000266	0.00220	U
71-43-2	Benzene	ND	0.0000799	0.000879	U
74-97-5	Bromochloromethane	ND	0.000162	0.000879	U
75-27-4	Bromodichloromethane	ND	0.000110	0.000879	U
75-25-2	Bromoform	ND	0.000154	0.000879	U
74-83-9	Bromomethane	ND	0.000253	0.000879	U
75-15-0	Carbon disulfide	ND	0.000126	0.000879	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 19:28	File ID:	3V34003.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.54	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000132	0.000879	U
108-90-7	Chlorobenzene	ND	0.000127	0.000879	U
124-48-1	Chlorodibromomethane	ND	0.000108	0.000879	U
75-00-3	Chloroethane	ND	0.000150	0.000879	U
67-66-3	Chloroform	ND	0.000148	0.000879	U
74-87-3	Chloromethane	ND	0.000338	0.000879	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000425	0.000879	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000111	0.000879	U
110-82-7	Cyclohexane	ND	0.000195	0.000879	U
75-71-8	Dichlorodifluoromethane	ND	0.000297	0.000879	U
100-41-4	EthylBenzene	ND	0.000119	0.000879	U
98-82-8	Isopropylbenzene	ND	0.000138	0.000879	U
179601-23-1	m+p-Xylenes	ND	0.000222	0.00176	U
79-20-9	Methyl Acetate	ND	0.000116	0.000879	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000148	0.000879	U
108-87-2	Methylcyclohexane	ND	0.000141	0.000879	U
75-09-2	Methylene Chloride	ND	0.000264	0.000879	U
95-47-6	o-Xylene	ND	0.000113	0.000879	U
100-42-5	Styrene	ND	0.000126	0.000879	U
75-65-0	tert-Butyl alcohol	ND	0.00184	0.00879	U
127-18-4	Tetrachloroethene	0.00240	0.0000870	0.000879	
108-88-3	Toluene	ND	0.0000707	0.000879	U
1330-20-7	Total Xylenes	ND	0.000113	0.000879	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000119	0.000879	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000168	0.000879	U
79-01-6	Trichloroethene	ND	0.000129	0.000879	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 19:28	File ID:	3V34003.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.54	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000101	0.000879	U
75-01-4	Vinyl chloride	ND	0.000167	0.000879	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-2A**
Lab Sample ID: **8100452-02**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 19:28	File ID:	3V34003.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.54	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34003.D Vial: 54
Acq On : 10 Oct 2018 19:28 Operator: omd
Sample : 8100452-02 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:34 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

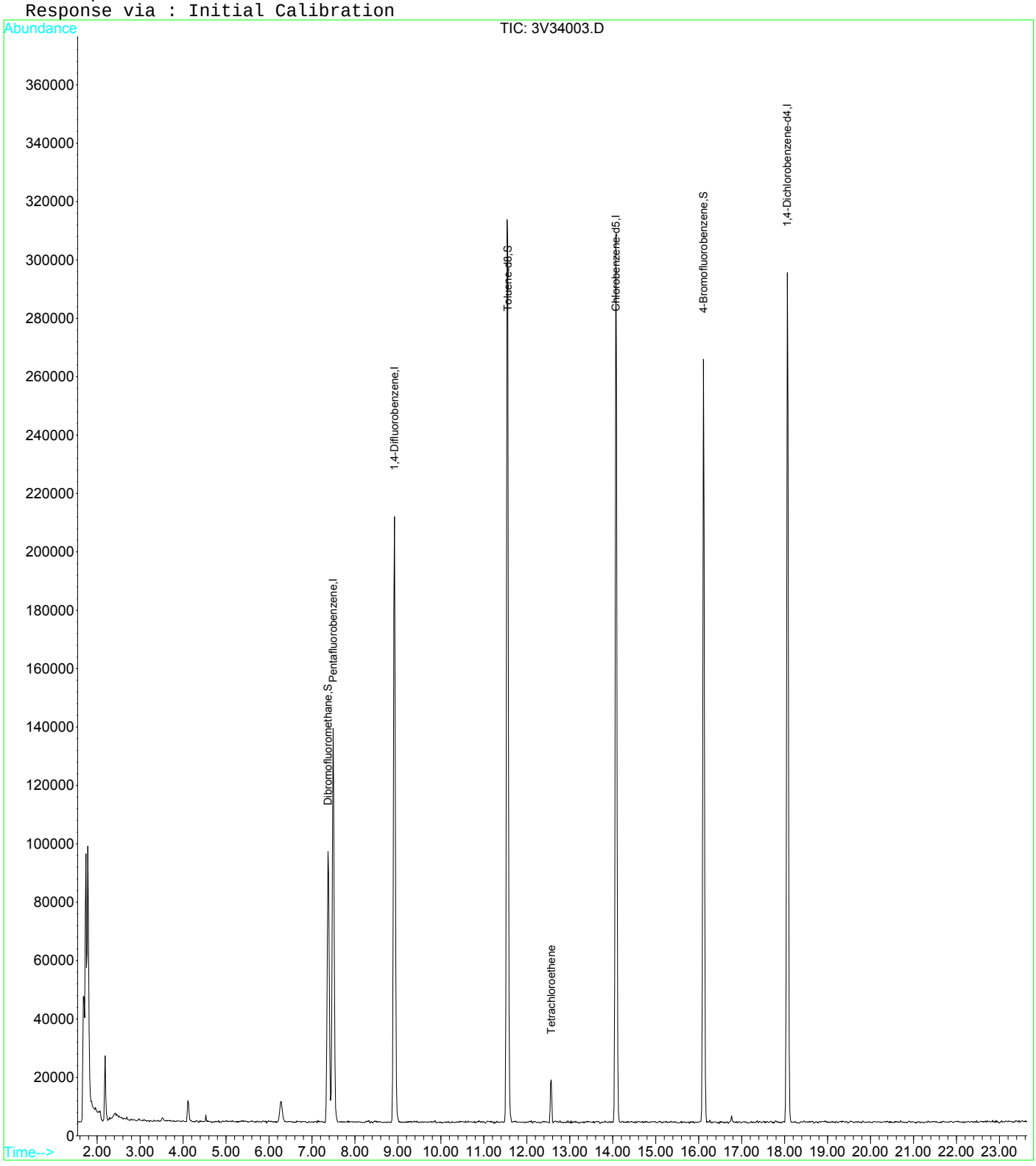
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.49	168	147411	50.00	ug/kg	0.03
33) 1,4-Difluorobenzene	8.92	114	282053	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	150180	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.06	152	126429	50.00	ug/kg	0.00
System Monitoring Compounds						
26) Dibromofluoromethane	7.37	113	103123	57.51	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 115.02%			
43) Toluene-d8	11.56	98	331639	52.28	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 104.56%			
62) 4-Bromofluorobenzene	16.11	95	149127	58.94	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 117.88%			
Target Compounds						Qvalue
49) Tetrachloroethene	12.57	166	7081	5.47	ug/kg	94

(#) = qualifier out of range (m) = manual integration
3V34003.D 0717WC3.M Thu Oct 11 11:39:56 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34003.D Vial: 54
Acq On : 10 Oct 2018 19:28 Operator: omd
Sample : 8100452-02 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:34 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/10/18 19:58	File ID:	3V34004.D
Init/Final Vol:	11.4 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:58
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.00	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000139	0.000954	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000132	0.000954	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000408	0.000954	U
79-00-5	1,1,2-Trichloroethane	ND	0.000161	0.000954	U
75-34-3	1,1-Dichloroethane	ND	0.000139	0.000954	U
75-35-4	1,1-Dichloroethene	ND	0.000176	0.000954	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000206	0.000954	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000254	0.000954	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000132	0.000954	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000233	0.000954	U
106-93-4	1,2-Dibromoethane	ND	0.000120	0.000954	U
95-50-1	1,2-Dichlorobenzene	ND	0.000168	0.000954	U
107-06-2	1,2-Dichloroethane	ND	0.000134	0.000954	U
78-87-5	1,2-Dichloropropane	ND	0.000156	0.000954	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000701	0.000954	U
106-46-7	1,4-Dichlorobenzene	ND	0.000137	0.000954	U
78-93-3	2-Butanone	ND	0.000155	0.00238	U
591-78-6	2-Hexanone	ND	0.0000892	0.000954	U
108-10-1	4-Methyl-2-pentanone	ND	0.000119	0.000954	U
67-64-1	Acetone	ND	0.000289	0.00238	U
71-43-2	Benzene	ND	0.0000868	0.000954	U
74-97-5	Bromochloromethane	ND	0.000176	0.000954	U
75-27-4	Bromodichloromethane	ND	0.000120	0.000954	U
75-25-2	Bromoform	ND	0.000167	0.000954	U
74-83-9	Bromomethane	ND	0.000275	0.000954	U
75-15-0	Carbon disulfide	ND	0.000137	0.000954	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/10/18 19:58	File ID:	3V34004.D
Init/Final Vol:	11.4 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:58
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.00	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000144	0.000954	U
108-90-7	Chlorobenzene	ND	0.000138	0.000954	U
124-48-1	Chlorodibromomethane	ND	0.000117	0.000954	U
75-00-3	Chloroethane	ND	0.000163	0.000954	U
67-66-3	Chloroform	ND	0.000160	0.000954	U
74-87-3	Chloromethane	ND	0.000367	0.000954	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000461	0.000954	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000121	0.000954	U
110-82-7	Cyclohexane	ND	0.000211	0.000954	U
75-71-8	Dichlorodifluoromethane	ND	0.000322	0.000954	U
100-41-4	EthylBenzene	ND	0.000129	0.000954	U
98-82-8	Isopropylbenzene	ND	0.000150	0.000954	U
179601-23-1	m+p-Xylenes	ND	0.000241	0.00191	U
79-20-9	Methyl Acetate	ND	0.000126	0.000954	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000161	0.000954	U
108-87-2	Methylcyclohexane	ND	0.000154	0.000954	U
75-09-2	Methylene Chloride	ND	0.000287	0.000954	U
95-47-6	o-Xylene	ND	0.000123	0.000954	U
100-42-5	Styrene	ND	0.000136	0.000954	U
75-65-0	tert-Butyl alcohol	ND	0.00200	0.00954	U
127-18-4	Tetrachloroethene	ND	0.0000944	0.000954	U
108-88-3	Toluene	ND	0.0000768	0.000954	U
1330-20-7	Total Xylenes	ND	0.000123	0.000954	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000129	0.000954	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000182	0.000954	U
79-01-6	Trichloroethene	ND	0.000140	0.000954	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/10/18 19:58	File ID:	3V34004.D
Init/Final Vol:	11.4 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:58
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.00	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000110	0.000954	U
75-01-4	Vinyl chloride	ND	0.000181	0.000954	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-4B**
Lab Sample ID: **8100452-05**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:35	Prep Date:	10/10/18 19:58	File ID:	3V34004.D
Init/Final Vol:	11.4 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 19:58
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.00	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT/LSC Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34004.D Vial: 55
Acq On : 10 Oct 2018 19:58 Operator: omd
Sample : 8100452-05 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:37 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.49	168	153714	50.00	ug/kg	0.03
33) 1,4-Difluorobenzene	8.92	114	287940	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	152713	50.00	ug/kg	0.01
74) 1,4-Dichlorobenzene-d4	18.08	152	134717	50.00	ug/kg	0.01
System Monitoring Compounds						
26) Dibromofluoromethane	7.37	113	107367	57.43	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 114.86%			
43) Toluene-d8	11.56	98	345576	53.36	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 106.72%			
62) 4-Bromofluorobenzene	16.11	95	146652m	57.00	ug/kg	0.01
Spiked Amount 50.000	Range 64 - 125		Recovery = 114.00%			

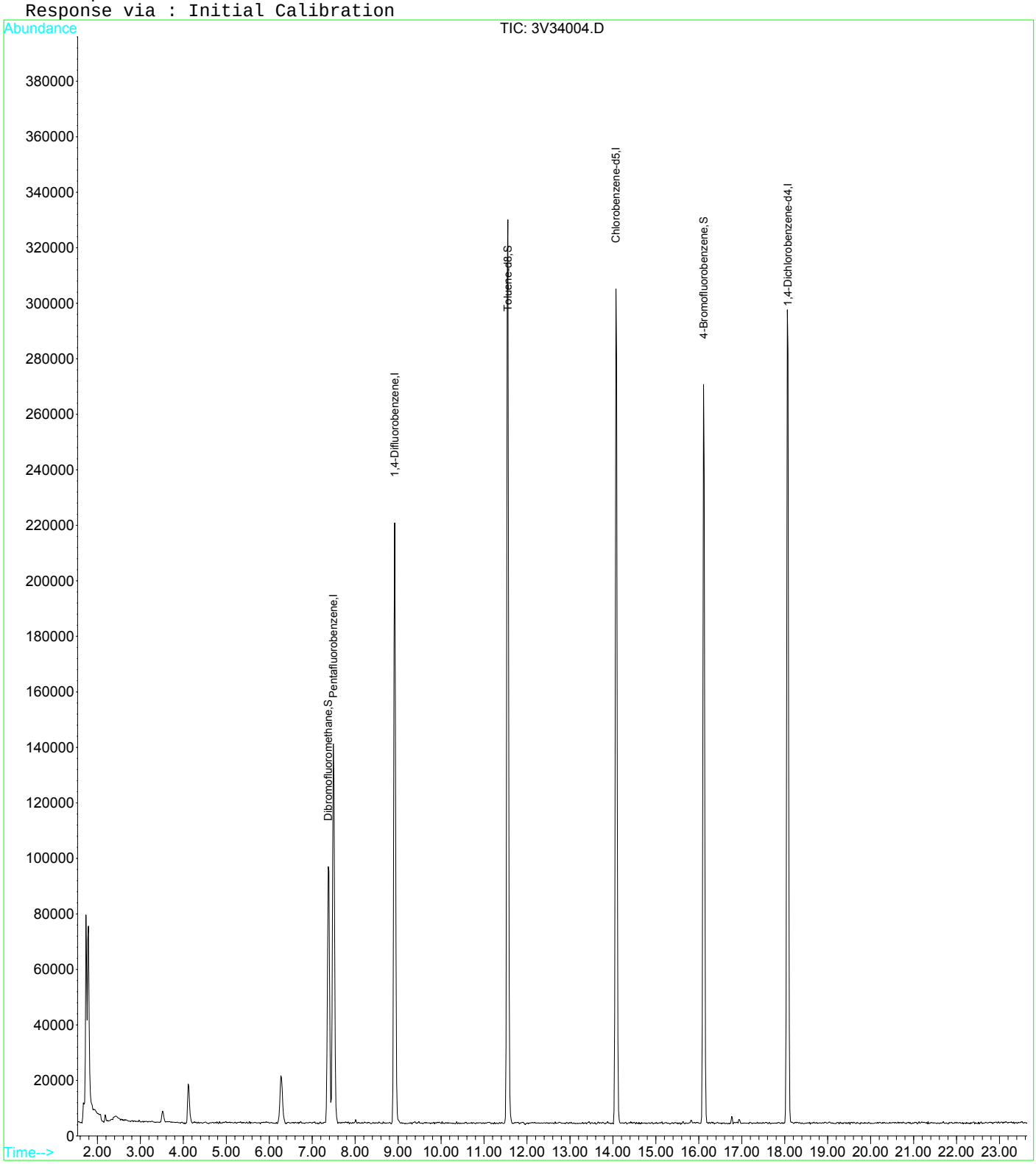
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34004.D 0717WC3.M Thu Oct 11 11:39:58 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34004.D Vial: 55
Acq On : 10 Oct 2018 19:58 Operator: omd
Sample : 8100452-05 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:37 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/10/18 20:28	File ID:	3V34005.D
Init/Final Vol:	10 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 20:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	87.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000166	0.00114	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000157	0.00114	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000488	0.00114	U
79-00-5	1,1,2-Trichloroethane	ND	0.000192	0.00114	U
75-34-3	1,1-Dichloroethane	ND	0.000166	0.00114	U
75-35-4	1,1-Dichloroethene	ND	0.000211	0.00114	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000246	0.00114	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000304	0.00114	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000157	0.00114	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000278	0.00114	U
106-93-4	1,2-Dibromoethane	ND	0.000144	0.00114	U
95-50-1	1,2-Dichlorobenzene	ND	0.000201	0.00114	U
107-06-2	1,2-Dichloroethane	ND	0.000161	0.00114	U
78-87-5	1,2-Dichloropropane	ND	0.000187	0.00114	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000838	0.00114	U
106-46-7	1,4-Dichlorobenzene	ND	0.000164	0.00114	U
78-93-3	2-Butanone	ND	0.000186	0.00285	U
591-78-6	2-Hexanone	ND	0.000107	0.00114	U
108-10-1	4-Methyl-2-pentanone	ND	0.000143	0.00114	U
67-64-1	Acetone	ND	0.000345	0.00285	U
71-43-2	Benzene	ND	0.000104	0.00114	U
74-97-5	Bromochloromethane	ND	0.000210	0.00114	U
75-27-4	Bromodichloromethane	ND	0.000143	0.00114	U
75-25-2	Bromoform	ND	0.000200	0.00114	U
74-83-9	Bromomethane	ND	0.000329	0.00114	U
75-15-0	Carbon disulfide	ND	0.000164	0.00114	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/10/18 20:28	File ID:	3V34005.D
Init/Final Vol:	10 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 20:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	87.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000172	0.00114	U
108-90-7	Chlorobenzene	ND	0.000165	0.00114	U
124-48-1	Chlorodibromomethane	ND	0.000140	0.00114	U
75-00-3	Chloroethane	ND	0.000194	0.00114	U
67-66-3	Chloroform	ND	0.000192	0.00114	U
74-87-3	Chloromethane	ND	0.000439	0.00114	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000551	0.00114	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000144	0.00114	U
110-82-7	Cyclohexane	ND	0.000253	0.00114	U
75-71-8	Dichlorodifluoromethane	ND	0.000385	0.00114	U
100-41-4	EthylBenzene	ND	0.000154	0.00114	U
98-82-8	Isopropylbenzene	ND	0.000179	0.00114	U
179601-23-1	m+p-Xylenes	ND	0.000288	0.00228	U
79-20-9	Methyl Acetate	ND	0.000151	0.00114	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000193	0.00114	U
108-87-2	Methylcyclohexane	ND	0.000184	0.00114	U
75-09-2	Methylene Chloride	ND	0.000343	0.00114	U
95-47-6	o-Xylene	ND	0.000147	0.00114	U
100-42-5	Styrene	ND	0.000163	0.00114	U
75-65-0	tert-Butyl alcohol	ND	0.00239	0.0114	U
127-18-4	Tetrachloroethene	ND	0.000113	0.00114	U
108-88-3	Toluene	ND	0.0000918	0.00114	U
1330-20-7	Total Xylenes	ND	0.000147	0.00114	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000154	0.00114	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000218	0.00114	U
79-01-6	Trichloroethene	ND	0.000168	0.00114	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/10/18 20:28	File ID:	3V34005.D
Init/Final Vol:	10 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 20:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	87.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000131	0.00114	U
75-01-4	Vinyl chloride	ND	0.000217	0.00114	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-6**
Lab Sample ID: **8100452-06**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 12:50	Prep Date:	10/10/18 20:28	File ID:	3V34005.D
Init/Final Vol:	10 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 20:28
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	87.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34005.D Vial: 56
Acq On : 10 Oct 2018 20:28 Operator: omd
Sample : 8100452-06 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:36 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.51	168	121951	50.00	ug/kg	0.05
33) 1,4-Difluorobenzene	8.92	114	230145	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	121749	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.06	152	109706	50.00	ug/kg	0.00
System Monitoring Compounds						
26) Dibromofluoromethane	7.37	113	86488	58.31	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 116.62%			
43) Toluene-d8	11.56	98	273822	52.90	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 105.80%			
62) 4-Bromofluorobenzene	16.11	95	122749m	59.84	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.68%			

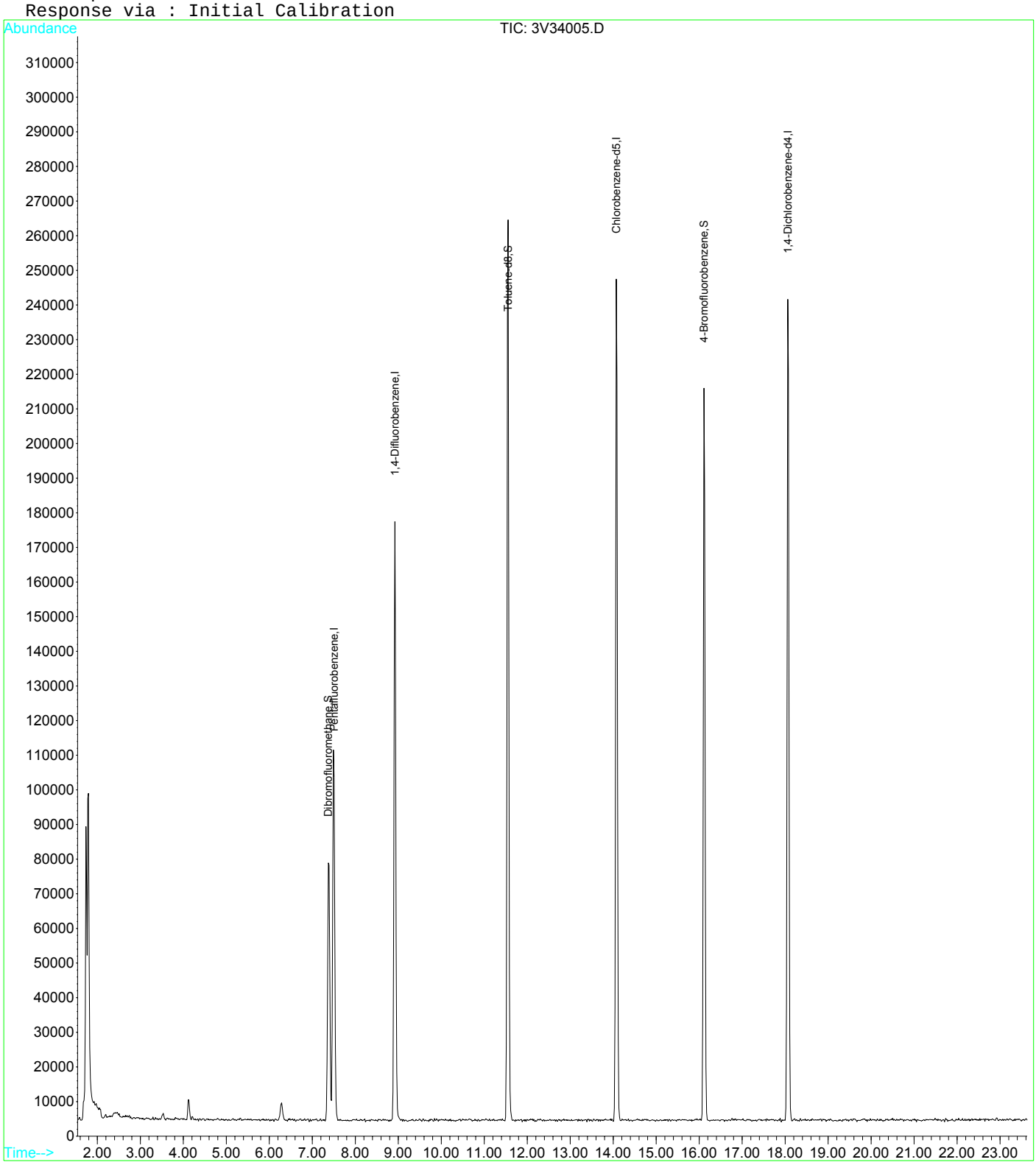
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34005.D 0717WC3.M Thu Oct 11 11:39:59 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34005.D Vial: 56
Acq On : 10 Oct 2018 20:28 Operator: omd
Sample : 8100452-06 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:36 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/10/18 21:02	File ID:	3V34006.D
Init/Final Vol:	10.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 21:02
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.36	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000155	0.00106	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000147	0.00106	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000455	0.00106	U
79-00-5	1,1,2-Trichloroethane	ND	0.000179	0.00106	U
75-34-3	1,1-Dichloroethane	ND	0.000155	0.00106	U
75-35-4	1,1-Dichloroethene	ND	0.000197	0.00106	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000230	0.00106	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000283	0.00106	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000147	0.00106	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000259	0.00106	U
106-93-4	1,2-Dibromoethane	ND	0.000134	0.00106	U
95-50-1	1,2-Dichlorobenzene	ND	0.000188	0.00106	U
107-06-2	1,2-Dichloroethane	ND	0.000150	0.00106	U
78-87-5	1,2-Dichloropropane	ND	0.000174	0.00106	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000781	0.00106	U
106-46-7	1,4-Dichlorobenzene	ND	0.000153	0.00106	U
78-93-3	2-Butanone	ND	0.000173	0.00266	U
591-78-6	2-Hexanone	ND	0.0000994	0.00106	U
108-10-1	4-Methyl-2-pentanone	ND	0.000133	0.00106	U
67-64-1	Acetone	ND	0.000322	0.00266	U
71-43-2	Benzene	ND	0.0000967	0.00106	U
74-97-5	Bromochloromethane	ND	0.000196	0.00106	U
75-27-4	Bromodichloromethane	ND	0.000133	0.00106	U
75-25-2	Bromoform	ND	0.000187	0.00106	U
74-83-9	Bromomethane	ND	0.000307	0.00106	U
75-15-0	Carbon disulfide	ND	0.000153	0.00106	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/10/18 21:02	File ID:	3V34006.D
Init/Final Vol:	10.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 21:02
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.36	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000160	0.00106	U
108-90-7	Chlorobenzene	ND	0.000154	0.00106	U
124-48-1	Chlorodibromomethane	ND	0.000131	0.00106	U
75-00-3	Chloroethane	ND	0.000181	0.00106	U
67-66-3	Chloroform	ND	0.000179	0.00106	U
74-87-3	Chloromethane	ND	0.000409	0.00106	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000514	0.00106	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000134	0.00106	U
110-82-7	Cyclohexane	ND	0.000235	0.00106	U
75-71-8	Dichlorodifluoromethane	ND	0.000359	0.00106	U
100-41-4	EthylBenzene	ND	0.000144	0.00106	U
98-82-8	Isopropylbenzene	ND	0.000167	0.00106	U
179601-23-1	m+p-Xylenes	ND	0.000268	0.00213	U
79-20-9	Methyl Acetate	ND	0.000141	0.00106	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000180	0.00106	U
108-87-2	Methylcyclohexane	ND	0.000171	0.00106	U
75-09-2	Methylene Chloride	ND	0.000319	0.00106	U
95-47-6	o-Xylene	ND	0.000137	0.00106	U
100-42-5	Styrene	ND	0.000152	0.00106	U
75-65-0	tert-Butyl alcohol	ND	0.00223	0.0106	U
127-18-4	Tetrachloroethene	ND	0.000105	0.00106	U
108-88-3	Toluene	ND	0.0000856	0.00106	U
1330-20-7	Total Xylenes	ND	0.000137	0.00106	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000144	0.00106	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000203	0.00106	U
79-01-6	Trichloroethene	ND	0.000156	0.00106	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/10/18 21:02	File ID:	3V34006.D
Init/Final Vol:	10.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 21:02
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.36	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000122	0.00106	U
75-01-4	Vinyl chloride	ND	0.000202	0.00106	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **NTP-7**
Lab Sample ID: **8100452-07**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:00	Prep Date:	10/10/18 21:02	File ID:	3V34006.D
Init/Final Vol:	10.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 21:02
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.36	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34006.D Vial: 57
Acq On : 10 Oct 2018 21:02 Operator: omd
Sample : 8100452-07 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:37 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.51	168	140882	50.00	ug/kg	0.05
33) 1,4-Difluorobenzene	8.92	114	262094	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	139480	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.08	152	114467	50.00	ug/kg	0.02
System Monitoring Compounds						
26) Dibromofluoromethane	7.39	113	96471	56.30	ug/kg	0.05
Spiked Amount 50.000	Range 59 - 147		Recovery = 112.60%			
43) Toluene-d8	11.56	98	313500	53.18	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 106.36%			
62) 4-Bromofluorobenzene	16.11	95	139563	59.39	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 118.78%			

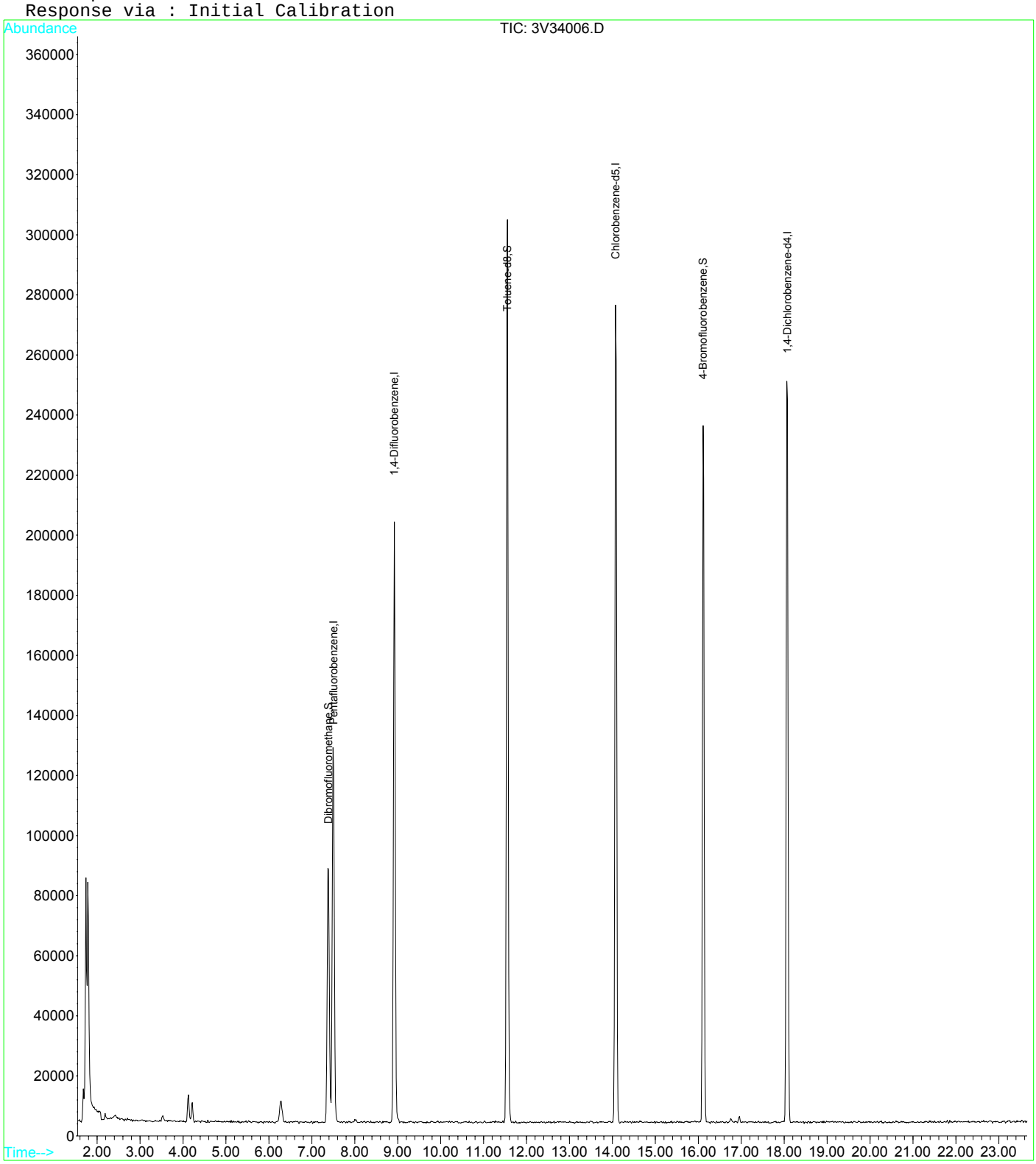
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34006.D 0717WC3.M Thu Oct 11 11:40:01 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34006.D Vial: 57
Acq On : 10 Oct 2018 21:02 Operator: omd
Sample : 8100452-07 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:37 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



3V34006.D 0717WC3.M Thu Oct 11 11:40:01 2018 SS Page 2

15 15.2.

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 13:34	File ID:	3V34020.D
Init/Final Vol:	4.1 g / 5 mL	Prep Batch:	B8J1141	Analyzed:	10/11/18 13:34
Dilution:	1	Matrix:	Soil	Sequence:	S8J1706
Percent Solids:	89.59	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000397	0.00272	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000376	0.00272	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.00117	0.00272	U
79-00-5	1,1,2-Trichloroethane	ND	0.000459	0.00272	U
75-34-3	1,1-Dichloroethane	ND	0.000397	0.00272	U
75-35-4	1,1-Dichloroethene	ND	0.000504	0.00272	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000588	0.00272	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000726	0.00272	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000376	0.00272	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000664	0.00272	U
106-93-4	1,2-Dibromoethane	ND	0.000343	0.00272	U
95-50-1	1,2-Dichlorobenzene	ND	0.000481	0.00272	U
107-06-2	1,2-Dichloroethane	ND	0.000384	0.00272	U
78-87-5	1,2-Dichloropropane	ND	0.000446	0.00272	U
541-73-1	1,3-Dichlorobenzene	ND	0.000200	0.00272	U
106-46-7	1,4-Dichlorobenzene	ND	0.000392	0.00272	U
78-93-3	2-Butanone	ND	0.000444	0.00681	U
591-78-6	2-Hexanone	ND	0.000255	0.00272	U
108-10-1	4-Methyl-2-pentanone	ND	0.000340	0.00272	U
67-64-1	Acetone	ND	0.000825	0.00681	U
71-43-2	Benzene	ND	0.000248	0.00272	U
74-97-5	Bromochloromethane	ND	0.000502	0.00272	U
75-27-4	Bromodichloromethane	ND	0.000342	0.00272	U
75-25-2	Bromoform	ND	0.000478	0.00272	U
74-83-9	Bromomethane	ND	0.000785	0.00272	U
75-15-0	Carbon disulfide	ND	0.000391	0.00272	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 13:34	File ID:	3V34020.D
Init/Final Vol:	4.1 g / 5 mL	Prep Batch:	B8J1141	Analyzed:	10/11/18 13:34
Dilution:	1	Matrix:	Soil	Sequence:	S8J1706
Percent Solids:	89.59	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000410	0.00272	U
108-90-7	Chlorobenzene	ND	0.000395	0.00272	U
124-48-1	Chlorodibromomethane	ND	0.000335	0.00272	U
75-00-3	Chloroethane	ND	0.000464	0.00272	U
67-66-3	Chloroform	ND	0.000457	0.00272	U
74-87-3	Chloromethane	ND	0.00105	0.00272	U
156-59-2	cis-1,2-Dichloroethene	ND	0.000132	0.00272	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000344	0.00272	U
110-82-7	Cyclohexane	ND	0.000603	0.00272	U
75-71-8	Dichlorodifluoromethane	ND	0.000919	0.00272	U
100-41-4	EthylBenzene	ND	0.000369	0.00272	U
98-82-8	Isopropylbenzene	ND	0.000427	0.00272	U
179601-23-1	m+p-Xylenes	ND	0.000687	0.00544	U
79-20-9	Methyl Acetate	ND	0.000361	0.00272	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000460	0.00272	U
108-87-2	Methylcyclohexane	ND	0.000438	0.00272	U
75-09-2	Methylene Chloride	ND	0.000818	0.00272	U
95-47-6	o-Xylene	ND	0.000350	0.00272	U
100-42-5	Styrene	ND	0.000389	0.00272	U
75-65-0	tert-Butyl alcohol	ND	0.00572	0.0272	U
127-18-4	Tetrachloroethene	ND	0.000270	0.00272	U
108-88-3	Toluene	ND	0.000219	0.00272	U
1330-20-7	Total Xylenes	ND	0.000350	0.00272	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000369	0.00272	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000520	0.00272	U
79-01-6	Trichloroethene	ND	0.000400	0.00272	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 13:34	File ID:	3V34020.D
Init/Final Vol:	4.1 g / 5 mL	Prep Batch:	B8J1141	Analyzed:	10/11/18 13:34
Dilution:	1	Matrix:	Soil	Sequence:	S8J1706
Percent Solids:	89.59	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000313	0.00272	U
75-01-4	Vinyl chloride	ND	0.000517	0.00272	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-1B**
Lab Sample ID: **8100452-08**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 13:15	Prep Date:	10/11/18 13:34	File ID:	3V34020.D
Init/Final Vol:	4.1 g / 5 mL	Prep Batch:	B8J1141	Analyzed:	10/11/18 13:34
Dilution:	1	Matrix:	Soil	Sequence:	S8J1706
Percent Solids:	89.59	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10112018\3V34020.D Vial: 75
Acq On : 11 Oct 2018 13:34 Operator: omd
Sample : 8100452-08 Inst : GCMS-3
Misc : soil re Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 16:25 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.54	168	157363	50.00	ug/kg	0.07
33) 1,4-Difluorobenzene	8.95	114	288376	50.00	ug/kg	0.06
52) Chlorobenzene-d5	14.10	82	154637	50.00	ug/kg	0.05
74) 1,4-Dichlorobenzene-d4	18.11	152	136983	50.00	ug/kg	0.05
System Monitoring Compounds						
26) Dibromofluoromethane	7.42	113	106632	55.71	ug/kg	0.07
Spiked Amount 50.000	Range 59 - 147		Recovery = 111.42%			
43) Toluene-d8	11.59	98	346621	53.44	ug/kg	0.06
Spiked Amount 50.000	Range 66 - 134		Recovery = 106.88%			
62) 4-Bromofluorobenzene	16.14	95	156107	59.92	ug/kg	0.05
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.84%			

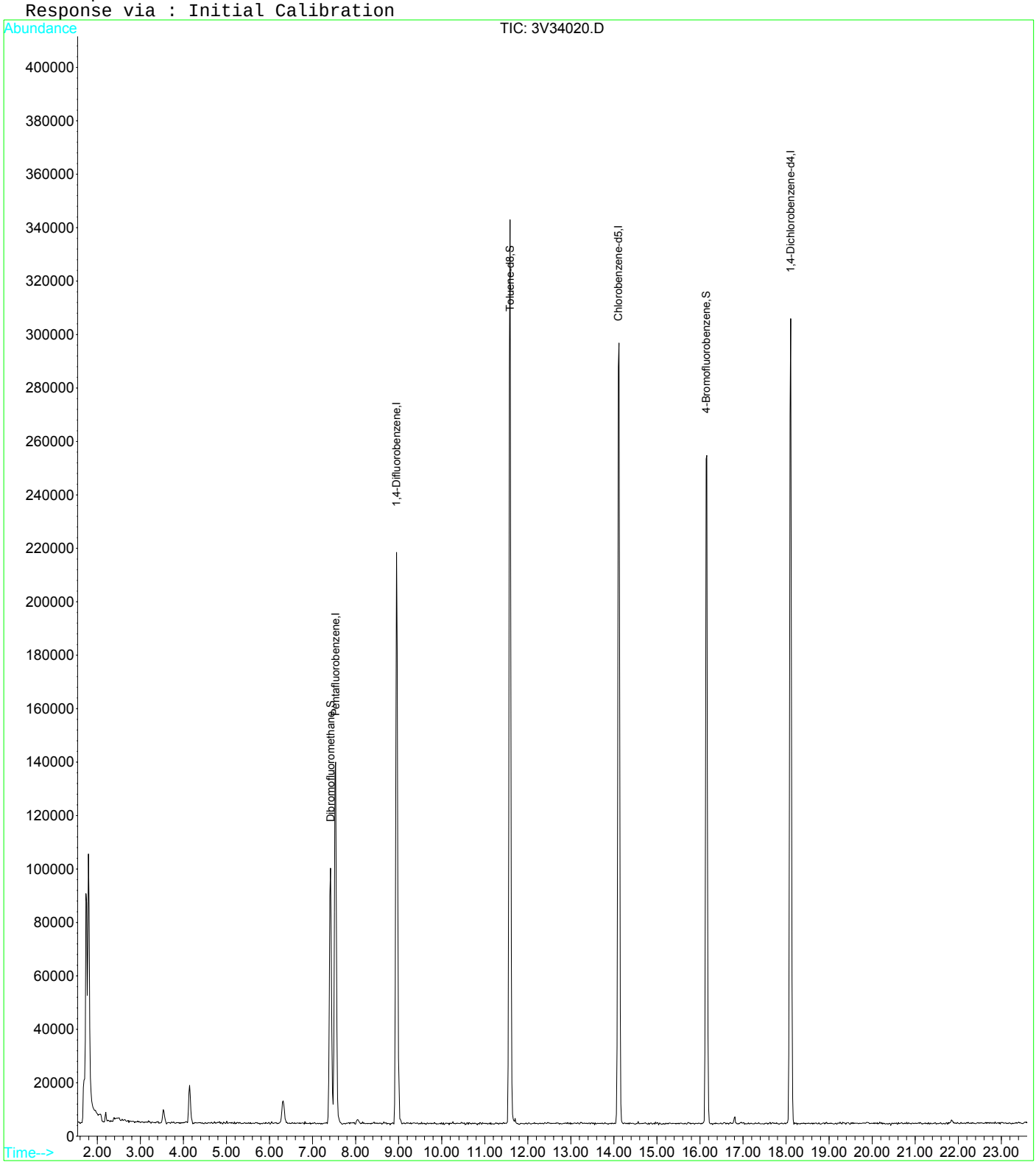
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34020.D 0717WC3.M Thu Oct 11 16:23:23 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10112018\3V34020.D Vial: 75
Acq On : 11 Oct 2018 13:34 Operator: omd
Sample : 8100452-08 Inst : GCMS-3
Misc : soil re Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 16:25 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:01	File ID:	3V34008.D
Init/Final Vol:	14.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:01
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	90.63	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000109	0.000746	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000103	0.000746	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000319	0.000746	U
79-00-5	1,1,2-Trichloroethane	ND	0.000126	0.000746	U
75-34-3	1,1-Dichloroethane	ND	0.000109	0.000746	U
75-35-4	1,1-Dichloroethene	ND	0.000138	0.000746	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000161	0.000746	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000199	0.000746	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000103	0.000746	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000182	0.000746	U
106-93-4	1,2-Dibromoethane	ND	0.0000939	0.000746	U
95-50-1	1,2-Dichlorobenzene	ND	0.000132	0.000746	U
107-06-2	1,2-Dichloroethane	ND	0.000105	0.000746	U
78-87-5	1,2-Dichloropropane	ND	0.000122	0.000746	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000548	0.000746	U
106-46-7	1,4-Dichlorobenzene	ND	0.000107	0.000746	U
78-93-3	2-Butanone	ND	0.000122	0.00186	U
591-78-6	2-Hexanone	ND	0.0000697	0.000746	U
108-10-1	4-Methyl-2-pentanone	ND	0.0000932	0.000746	U
67-64-1	Acetone	ND	0.000226	0.00186	U
71-43-2	Benzene	ND	0.0000678	0.000746	U
74-97-5	Bromochloromethane	ND	0.000138	0.000746	U
75-27-4	Bromodichloromethane	ND	0.0000936	0.000746	U
75-25-2	Bromoform	ND	0.000131	0.000746	U
74-83-9	Bromomethane	ND	0.000215	0.000746	U
75-15-0	Carbon disulfide	ND	0.000107	0.000746	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:01	File ID:	3V34008.D
Init/Final Vol:	14.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:01
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	90.63	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000112	0.000746	U
108-90-7	Chlorobenzene	ND	0.000108	0.000746	U
124-48-1	Chlorodibromomethane	ND	0.0000917	0.000746	U
75-00-3	Chloroethane	ND	0.000127	0.000746	U
67-66-3	Chloroform	ND	0.000125	0.000746	U
74-87-3	Chloromethane	ND	0.000287	0.000746	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000360	0.000746	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.0000943	0.000746	U
110-82-7	Cyclohexane	ND	0.000165	0.000746	U
75-71-8	Dichlorodifluoromethane	ND	0.000252	0.000746	U
100-41-4	EthylBenzene	ND	0.000101	0.000746	U
98-82-8	Isopropylbenzene	ND	0.000117	0.000746	U
179601-23-1	m+p-Xylenes	ND	0.000188	0.00149	U
79-20-9	Methyl Acetate	ND	0.0000988	0.000746	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000126	0.000746	U
108-87-2	Methylcyclohexane	ND	0.000120	0.000746	U
75-09-2	Methylene Chloride	ND	0.000224	0.000746	U
95-47-6	o-Xylene	ND	0.0000958	0.000746	U
100-42-5	Styrene	ND	0.000107	0.000746	U
75-65-0	tert-Butyl alcohol	ND	0.00157	0.00746	U
127-18-4	Tetrachloroethene	ND	0.0000738	0.000746	U
108-88-3	Toluene	ND	0.0000600	0.000746	U
1330-20-7	Total Xylenes	ND	0.0000958	0.000746	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000101	0.000746	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000142	0.000746	U
79-01-6	Trichloroethene	ND	0.000110	0.000746	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:01	File ID:	3V34008.D
Init/Final Vol:	14.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:01
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	90.63	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.0000857	0.000746	U
75-01-4	Vinyl chloride	ND	0.000142	0.000746	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4A**
Lab Sample ID: **8100452-11**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:01	File ID:	3V34008.D
Init/Final Vol:	14.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:01
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	90.63	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34008.D Vial: 59
Acq On : 10 Oct 2018 22:01 Operator: omd
Sample : 8100452-11 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:38 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.49	168	147505	50.00	ug/kg	0.03
33) 1,4-Difluorobenzene	8.92	114	269462	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	143908	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.08	152	125562	50.00	ug/kg	0.02
System Monitoring Compounds						
26) Dibromofluoromethane	7.37	113	99824	55.64	ug/kg	0.03
Spiked Amount 50.000	Range 59 - 147		Recovery = 111.28%			
43) Toluene-d8	11.56	98	321151	52.99	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 105.98%			
62) 4-Bromofluorobenzene	16.11	95	145178	59.88	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.76%			

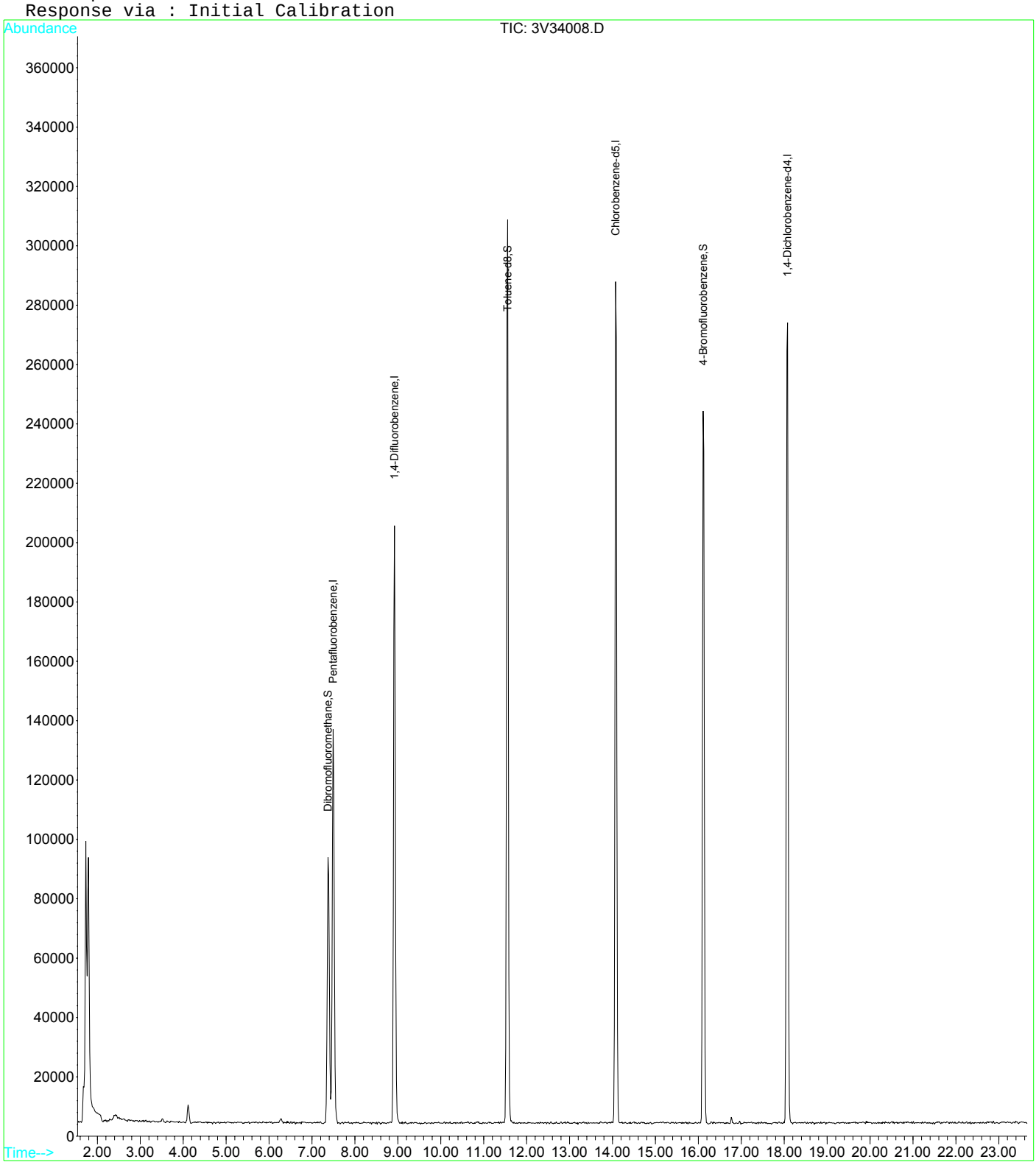
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34008.D 0717WC3.M Thu Oct 11 11:40:03 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34008.D Vial: 59
Acq On : 10 Oct 2018 22:01 Operator: omd
Sample : 8100452-11 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:38 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



3V34008.D 0717WC3.M Thu Oct 11 11:40:03 2018 SS Page 2

15 15.2.

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:30	File ID:	3V34009.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:30
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000129	0.000887	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000122	0.000887	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000379	0.000887	U
79-00-5	1,1,2-Trichloroethane	ND	0.000149	0.000887	U
75-34-3	1,1-Dichloroethane	ND	0.000129	0.000887	U
75-35-4	1,1-Dichloroethene	ND	0.000164	0.000887	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000192	0.000887	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000236	0.000887	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000122	0.000887	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000216	0.000887	U
106-93-4	1,2-Dibromoethane	ND	0.000112	0.000887	U
95-50-1	1,2-Dichlorobenzene	ND	0.000156	0.000887	U
107-06-2	1,2-Dichloroethane	ND	0.000125	0.000887	U
78-87-5	1,2-Dichloropropane	ND	0.000145	0.000887	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000652	0.000887	U
106-46-7	1,4-Dichlorobenzene	ND	0.000128	0.000887	U
78-93-3	2-Butanone	ND	0.000145	0.00222	U
591-78-6	2-Hexanone	ND	0.0000829	0.000887	U
108-10-1	4-Methyl-2-pentanone	ND	0.000111	0.000887	U
67-64-1	Acetone	ND	0.000269	0.00222	U
71-43-2	Benzene	ND	0.0000807	0.000887	U
74-97-5	Bromochloromethane	ND	0.000164	0.000887	U
75-27-4	Bromodichloromethane	ND	0.000111	0.000887	U
75-25-2	Bromoform	ND	0.000156	0.000887	U
74-83-9	Bromomethane	ND	0.000256	0.000887	U
75-15-0	Carbon disulfide	ND	0.000127	0.000887	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:30	File ID:	3V34009.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:30
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000133	0.000887	U
108-90-7	Chlorobenzene	ND	0.000129	0.000887	U
124-48-1	Chlorodibromomethane	ND	0.000109	0.000887	U
75-00-3	Chloroethane	ND	0.000151	0.000887	U
67-66-3	Chloroform	ND	0.000149	0.000887	U
74-87-3	Chloromethane	ND	0.000341	0.000887	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000429	0.000887	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000112	0.000887	U
110-82-7	Cyclohexane	ND	0.000196	0.000887	U
75-71-8	Dichlorodifluoromethane	ND	0.000299	0.000887	U
100-41-4	EthylBenzene	ND	0.000120	0.000887	U
98-82-8	Isopropylbenzene	ND	0.000139	0.000887	U
179601-23-1	m+p-Xylenes	ND	0.000224	0.00177	U
79-20-9	Methyl Acetate	ND	0.000117	0.000887	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000150	0.000887	U
108-87-2	Methylcyclohexane	ND	0.000143	0.000887	U
75-09-2	Methylene Chloride	ND	0.000266	0.000887	U
95-47-6	o-Xylene	ND	0.000114	0.000887	U
100-42-5	Styrene	ND	0.000127	0.000887	U
75-65-0	tert-Butyl alcohol	ND	0.00186	0.00887	U
127-18-4	Tetrachloroethene	ND	0.0000878	0.000887	U
108-88-3	Toluene	ND	0.0000714	0.000887	U
1330-20-7	Total Xylenes	ND	0.000114	0.000887	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000120	0.000887	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000169	0.000887	U
79-01-6	Trichloroethene	ND	0.000130	0.000887	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:30	File ID:	3V34009.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:30
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000102	0.000887	U
75-01-4	Vinyl chloride	ND	0.000168	0.000887	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-4B**
Lab Sample ID: **8100452-12**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:30	File ID:	3V34009.D
Init/Final Vol:	12.3 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:30
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	91.70	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT/LSC Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34009.D Vial: 60
Acq On : 10 Oct 2018 22:30 Operator: omd
Sample : 8100452-12 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:40 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.51	168	137633	50.00	ug/kg	0.04
33) 1,4-Difluorobenzene	8.92	114	257853	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.07	82	137391	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.08	152	119681	50.00	ug/kg	0.02
System Monitoring Compounds						
26) Dibromofluoromethane	7.39	113	94850	56.66	ug/kg	0.04
Spiked Amount 50.000	Range 59 - 147		Recovery = 113.32%			
43) Toluene-d8	11.56	98	307658	53.05	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 106.10%			
62) 4-Bromofluorobenzene	16.11	95	138293m	59.74	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.48%			

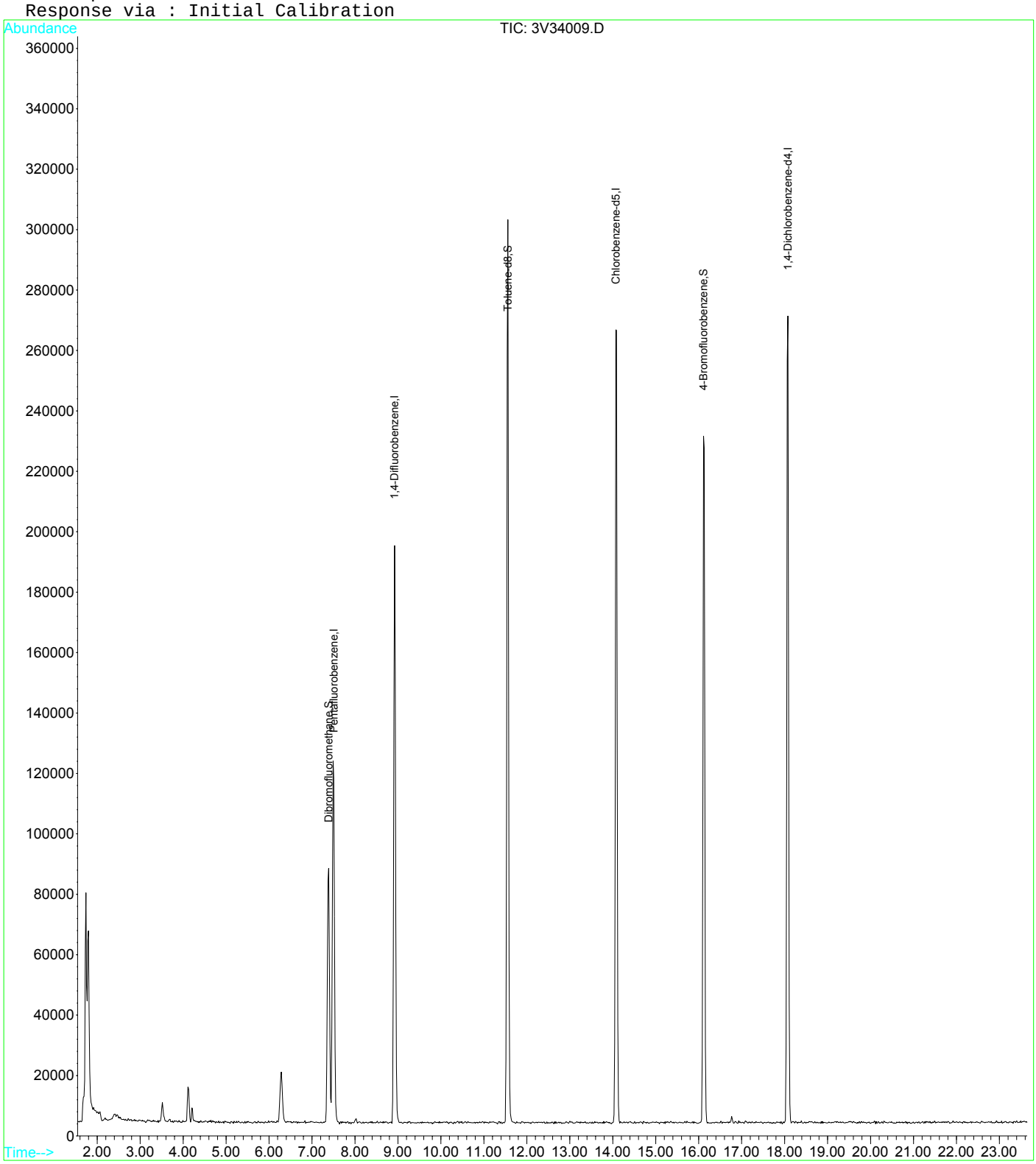
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34009.D 0717WC3.M Thu Oct 11 11:40:04 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34009.D Vial: 60
Acq On : 10 Oct 2018 22:30 Operator: omd
Sample : 8100452-12 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:40 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:59	File ID:	3V34010.D
Init/Final Vol:	11.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.94	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
71-55-6	1,1,1-Trichloroethane	ND	0.000133	0.000912	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.000126	0.000912	U
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	ND	0.000390	0.000912	U
79-00-5	1,1,2-Trichloroethane	ND	0.000154	0.000912	U
75-34-3	1,1-Dichloroethane	ND	0.000133	0.000912	U
75-35-4	1,1-Dichloroethene	ND	0.000169	0.000912	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.000197	0.000912	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.000243	0.000912	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.000126	0.000912	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.000222	0.000912	U
106-93-4	1,2-Dibromoethane	ND	0.000115	0.000912	U
95-50-1	1,2-Dichlorobenzene	ND	0.000161	0.000912	U
107-06-2	1,2-Dichloroethane	ND	0.000129	0.000912	U
78-87-5	1,2-Dichloropropane	ND	0.000150	0.000912	U
541-73-1	1,3-Dichlorobenzene	ND	0.0000670	0.000912	U
106-46-7	1,4-Dichlorobenzene	ND	0.000131	0.000912	U
78-93-3	2-Butanone	ND	0.000149	0.00228	U
591-78-6	2-Hexanone	ND	0.0000853	0.000912	U
108-10-1	4-Methyl-2-pentanone	ND	0.000114	0.000912	U
67-64-1	Acetone	ND	0.000276	0.00228	U
71-43-2	Benzene	ND	0.0000830	0.000912	U
74-97-5	Bromochloromethane	ND	0.000168	0.000912	U
75-27-4	Bromodichloromethane	ND	0.000114	0.000912	U
75-25-2	Bromoform	ND	0.000160	0.000912	U
74-83-9	Bromomethane	ND	0.000263	0.000912	U
75-15-0	Carbon disulfide	ND	0.000131	0.000912	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:59	File ID:	3V34010.D
Init/Final Vol:	11.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.94	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
56-23-5	Carbon Tetrachloride	ND	0.000137	0.000912	U
108-90-7	Chlorobenzene	ND	0.000132	0.000912	U
124-48-1	Chlorodibromomethane	ND	0.000112	0.000912	U
75-00-3	Chloroethane	ND	0.000155	0.000912	U
67-66-3	Chloroform	ND	0.000153	0.000912	U
74-87-3	Chloromethane	ND	0.000351	0.000912	U
156-59-2	cis-1,2-Dichloroethene	ND	0.0000441	0.000912	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.000115	0.000912	U
110-82-7	Cyclohexane	ND	0.000202	0.000912	U
75-71-8	Dichlorodifluoromethane	ND	0.000308	0.000912	U
100-41-4	EthylBenzene	ND	0.000124	0.000912	U
98-82-8	Isopropylbenzene	ND	0.000143	0.000912	U
179601-23-1	m+p-Xylenes	ND	0.000230	0.00182	U
79-20-9	Methyl Acetate	ND	0.000121	0.000912	U
1634-04-4	Methyl tert-Butyl Ether	ND	0.000154	0.000912	U
108-87-2	Methylcyclohexane	ND	0.000147	0.000912	U
75-09-2	Methylene Chloride	ND	0.000274	0.000912	U
95-47-6	o-Xylene	ND	0.000117	0.000912	U
100-42-5	Styrene	ND	0.000130	0.000912	U
75-65-0	tert-Butyl alcohol	ND	0.00191	0.00912	U
127-18-4	Tetrachloroethene	ND	0.0000903	0.000912	U
108-88-3	Toluene	ND	0.0000734	0.000912	U
1330-20-7	Total Xylenes	ND	0.000117	0.000912	U
156-60-5	trans-1,2-Dichloroethene	ND	0.000124	0.000912	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.000174	0.000912	U
79-01-6	Trichloroethene	ND	0.000134	0.000912	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:59	File ID:	3V34010.D
Init/Final Vol:	11.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.94	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Q
75-69-4	Trichlorofluoromethane	ND	0.000105	0.000912	U
75-01-4	Vinyl chloride	ND	0.000173	0.000912	U

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

ANALYSIS DATA SHEET

Volatile Organics - GC/MS - SW 846 8260C

Client: **Peak Environmental**
Client Sample ID: **STP-7**
Lab Sample ID: **8100452-14**
Project: **Ridgewood**
Work Order: **8100452**

Date Sampled:	10/10/18 00:00	Prep Date:	10/10/18 22:59	File ID:	3V34010.D
Init/Final Vol:	11.8 g / 5 mL	Prep Batch:	B8J1111	Analyzed:	10/10/18 22:59
Dilution:	1	Matrix:	Soil	Sequence:	S8J1704
Percent Solids:	92.94	Prep Method:	PURGE & TRAP SOIL EPA 5035A		

CAS NO.	TENTATIVELY IDENTIFIED COMPOUNDS	CONC. (mg/kg dry)	RT	Q

J - Indicates estimated value
B - Indicates compound found in associated blank
D - Indicates result is based on a dilution

F-I

Quantitation Report (QT/LSC Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V34010.D Vial: 61
Acq On : 10 Oct 2018 22:59 Operator: omd
Sample : 8100452-14 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:41 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.51	168	149345	50.00	ug/kg	0.05
33) 1,4-Difluorobenzene	8.92	114	275625	50.00	ug/kg	0.03
52) Chlorobenzene-d5	14.09	82	150050	50.00	ug/kg	0.03
74) 1,4-Dichlorobenzene-d4	18.08	152	131114	50.00	ug/kg	0.02
System Monitoring Compounds						
26) Dibromofluoromethane	7.39	113	102924	56.66	ug/kg	0.05
Spiked Amount 50.000	Range 59 - 147		Recovery = 113.32%			
43) Toluene-d8	11.56	98	331966	53.55	ug/kg	0.03
Spiked Amount 50.000	Range 66 - 134		Recovery = 107.10%			
62) 4-Bromofluorobenzene	16.13	95	151194	59.80	ug/kg	0.03
Spiked Amount 50.000	Range 64 - 125		Recovery = 119.60%			

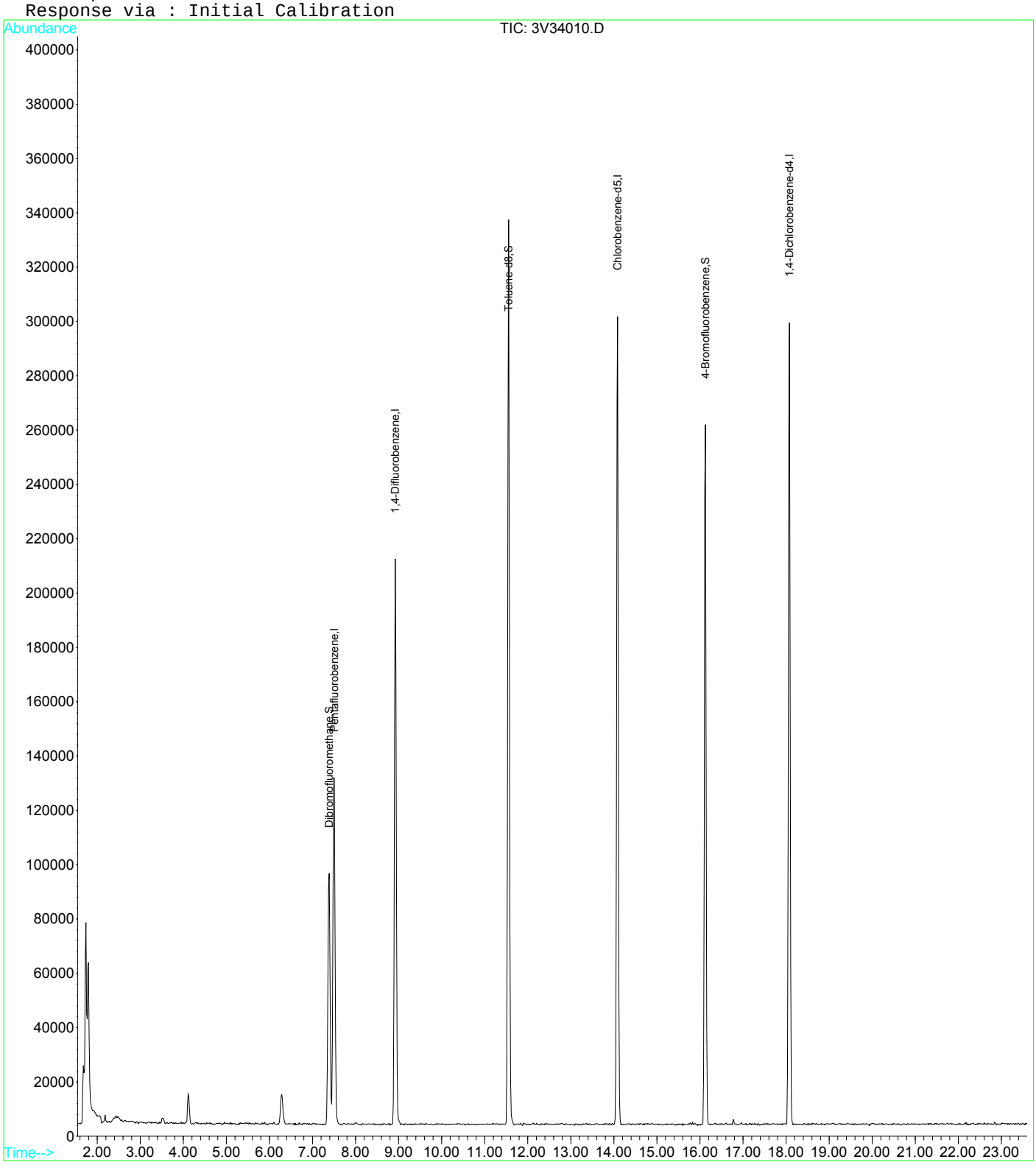
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
3V34010.D 0717WC3.M Thu Oct 11 11:40:05 2018 SS Page 1

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V34010.D Vial: 61
Acq On : 10 Oct 2018 22:59 Operator: omd
Sample : 8100452-14 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 11:41 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



SURROGATE RECOVERIES

Analysis Class: VOLATILES

Matrix: Soil **Method:** SW 846 8260C

VO+15

Lab Number	File ID	DBF	TOL-d8	BFB
8100452-01	3V34002.D	116	106	120
8100452-02	3V34003.D	115	105	118
8100452-05	3V34004.D	115	107	114
8100452-06	3V34005.D	117	106	120
8100452-07	3V34006.D	113	106	119
8100452-08	3V34020.D	111	107	120
8100452-11	3V34008.D	111	106	120
8100452-12	3V34009.D	113	106	119
8100452-14	3V34010.D	113	107	120
B8J1111-BLK1	3V33994.D	113	105	120
B8J1111-BS1	3V33992.D	109	107	117
B8J1111-MS1	3V34013.D	109	107	121
B8J1111-MSD1	3V34014.D	113	106	120
B8J1141-BLK1	3V34019.D	109	107	117
B8J1141-BS1	3V34018.D	107	108	119
B8J1141-MS1	3V34039.D	111	113	120
B8J1141-MSD1	3V34040.D	108	114	118

Surrogate Limits		Lo Limit	Hi Limit
DBF	Dibromofluoromethane	75.2	135
TOL-d8	Toluene-d8	68.6	140
BFB	4-Bromofluorobenzene	66.9	139

F-II

* - Outside of QC Limits

Volatile Organics - GC/MS - Quality Control

Aqua Pro-Tech Laboratories

Batch B8J1111 **Method: SW 846 8260C** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1111-BS1		1,1,1-Trichloroethane	253	ug/kg	200		126	55.7-146		
B8J1111-BS1		1,1,2,2-Tetrachloroethane	168	ug/kg	200		84.2	60.6-129		
B8J1111-BS1		1,1,2-Trichloro-1,2,2 Trifluoroeth	165	ug/kg	200		82.7	40.9-152		
B8J1111-BS1		1,1,2-Trichloroethane	184	ug/kg	200		91.9	79.9-125		
B8J1111-BS1		1,1-Dichloroethane	221	ug/kg	200		110	56.4-138		
B8J1111-BS1		1,1-Dichloroethene	232	ug/kg	200		116	51.9-135		
B8J1111-BS1		1,2,3-Trichlorobenzene	219	ug/kg	200		109	60-138		
B8J1111-BS1		1,2,4-Trichlorobenzene	233	ug/kg	200		116	64.8-139		
B8J1111-BS1		1,2-Dibromo-3-chloropropane	213	ug/kg	200		106	45.6-154		
B8J1111-BS1		1,2-Dibromoethane	194	ug/kg	200		97.2	73.7-130		
B8J1111-BS1		1,2-Dichlorobenzene	211	ug/kg	200		105	55.4-130		
B8J1111-BS1		1,2-Dichloroethane	253	ug/kg	200		127	53.2-151		
B8J1111-BS1		1,2-Dichloropropane	193	ug/kg	200		96.3	75.1-122		
B8J1111-BS1		1,3-Dichlorobenzene	214	ug/kg	200		107	63.4-126		
B8J1111-BS1		1,4-Dichlorobenzene	210	ug/kg	200		105	51.4-129		
B8J1111-BS1		2-Butanone	152	ug/kg	200		76.0	39.6-169		
B8J1111-BS1		2-Hexanone	165	ug/kg	200		82.5	58.6-157		
B8J1111-BS1		4-Methyl-2-pentanone	170	ug/kg	200		84.8	53.6-156		
B8J1111-BS1		Acetone	202	ug/kg	200		101	38.5-171		
B8J1111-BS1		Benzene	182	ug/kg	200		91.0	58.1-135		
B8J1111-BS1		Bromochloromethane	198	ug/kg	200		99.1	51.6-146		
B8J1111-BS1		Bromodichloromethane	165	ug/kg	200		82.7	79.8-121		
B8J1111-BS1		Bromoform	211	ug/kg	200		105	63.4-145		
B8J1111-BS1		Bromomethane	212	ug/kg	200		106	18.7-164		
B8J1111-BS1		Carbon disulfide	141	ug/kg	200		70.4	15.3-152		
B8J1111-BS1		Carbon Tetrachloride	254	ug/kg	200		127	53.4-147		
B8J1111-BS1		Chlorobenzene	205	ug/kg	200		103	66.8-122		
B8J1111-BS1		Chlorodibromomethane	153	ug/kg	200		76.4*	80.2-129		
B8J1111-BS1		Chloroethane	198	ug/kg	200		99.2	37-152		
B8J1111-BS1		Chloroform	234	ug/kg	200		117	51.8-141		
B8J1111-BS1		Chloromethane	175	ug/kg	200		87.4	33.9-139		
B8J1111-BS1		cis-1,2-Dichloroethene	225	ug/kg	200		113	57.5-140		
B8J1111-BS1		cis-1,3-Dichloropropene	211	ug/kg	200		106	80.5-120		
B8J1111-BS1		Cyclohexane	164	ug/kg	200		81.8	52.2-125		
B8J1111-BS1		Dichlorodifluoromethane	240	ug/kg	200		120	15-144		
B8J1111-BS1		EthylBenzene	213	ug/kg	200		107	63.7-119		
B8J1111-BS1		Isopropylbenzene	218	ug/kg	200		109	65.4-120		
B8J1111-BS1		m+p-Xylenes	408	ug/kg	400		102	63.5-126		
B8J1111-BS1		Methyl Acetate	158	ug/kg	200		79.1	31.8-165		
B8J1111-BS1		Methyl tert-Butyl Ether	194	ug/kg	200		97.2	64.7-151		
B8J1111-BS1		Methylcyclohexane	173	ug/kg	200		86.4	70.4-112		
B8J1111-BS1		Methylene Chloride	213	ug/kg	200		106	54.4-150		
B8J1111-BS1		o-Xylene	216	ug/kg	200		108	63.7-125		
B8J1111-BS1		Styrene	208	ug/kg	200		104	70.6-121		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1111 (cont.) **Method: SW 846 8260C** **Prepared: 10/10/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1111-BS1		tert-Butyl alcohol	1830	ug/kg	2000		91.3	39.7-175		
B8J1111-BS1		Tetrachloroethene	211	ug/kg	200		105	77.9-124		
B8J1111-BS1		Toluene	196	ug/kg	200		98.1	74.8-115		
B8J1111-BS1		trans-1,2-Dichloroethene	225	ug/kg	200		113	51.7-138		
B8J1111-BS1		trans-1,3-Dichloropropene	227	ug/kg	200		114	79.7-125		
B8J1111-BS1		Trichloroethene	212	ug/kg	200		106	77.1-121		
B8J1111-BS1		Trichlorofluoromethane	187	ug/kg	200		93.6	47.2-144		
B8J1111-BS1		Vinyl chloride	215	ug/kg	200		107	44.2-137		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1111 (cont.) **Method: SW 846 8260C** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1111-MS1	8100261-01	1,1,1-Trichloroethane	248	ug/kg	200	0.00	124	60.7-148		
B8J1111-MS1	8100261-01	1,1,2,2-Tetrachloroethane	189	ug/kg	200	0.00	94.3	65.7-121		
B8J1111-MS1	8100261-01	1,1,2-Trichloro-1,2,2 Trifluoroeth	154	ug/kg	200	0.00	76.8	44.9-144		
B8J1111-MS1	8100261-01	1,1,2-Trichloroethane	196	ug/kg	200	0.00	98.1	80-131		
B8J1111-MS1	8100261-01	1,1-Dichloroethane	211	ug/kg	200	0.00	106	64.8-137		
B8J1111-MS1	8100261-01	1,1-Dichloroethene	220	ug/kg	200	0.00	110	56.9-127		
B8J1111-MS1	8100261-01	1,2,3-Trichlorobenzene	211	ug/kg	200	0.00	105	66.9-121		
B8J1111-MS1	8100261-01	1,2,4-Trichlorobenzene	218	ug/kg	200	0.00	109	66.5-124		
B8J1111-MS1	8100261-01	1,2-Dibromo-3-chloropropane	249	ug/kg	200	0.00	124	48.7-149		
B8J1111-MS1	8100261-01	1,2-Dibromoethane	210	ug/kg	200	0.00	105	72.2-138		
B8J1111-MS1	8100261-01	1,2-Dichlorobenzene	210	ug/kg	200	0.00	105	51.2-127		
B8J1111-MS1	8100261-01	1,2-Dichloroethane	266	ug/kg	200	0.00	133	59.7-163		
B8J1111-MS1	8100261-01	1,2-Dichloropropane	190	ug/kg	200	0.00	94.9	80.2-120		
B8J1111-MS1	8100261-01	1,3-Dichlorobenzene	209	ug/kg	200	0.00	104	56.6-125		
B8J1111-MS1	8100261-01	1,4-Dichlorobenzene	198	ug/kg	200	0.00	99.2	47.7-123		
B8J1111-MS1	8100261-01	2-Butanone	175	ug/kg	200	0.00	87.3	39.7-175		
B8J1111-MS1	8100261-01	2-Hexanone	192	ug/kg	200	0.00	95.8	49.2-166		
B8J1111-MS1	8100261-01	4-Methyl-2-pentanone	197	ug/kg	200	0.00	98.7	47.8-159		
B8J1111-MS1	8100261-01	Acetone	229	ug/kg	200	0.00	115	35.1-168		
B8J1111-MS1	8100261-01	Benzene	172	ug/kg	200	0.00	86.1	67-127		
B8J1111-MS1	8100261-01	Bromochloromethane	199	ug/kg	200	0.00	99.4	61.9-147		
B8J1111-MS1	8100261-01	Bromodichloromethane	169	ug/kg	200	0.00	84.7	80.2-125		
B8J1111-MS1	8100261-01	Bromoform	232	ug/kg	200	0.00	116	73.3-129		
B8J1111-MS1	8100261-01	Bromomethane	202	ug/kg	200	0.00	101	24.6-155		
B8J1111-MS1	8100261-01	Carbon disulfide	130	ug/kg	200	0.00	65.2	40.6-129		
B8J1111-MS1	8100261-01	Carbon Tetrachloride	244	ug/kg	200	0.00	122	59.3-142		
B8J1111-MS1	8100261-01	Chlorobenzene	195	ug/kg	200	0.00	97.7	59.3-122		
B8J1111-MS1	8100261-01	Chlorodibromomethane	164	ug/kg	200	0.00	82.1	79.8-129		
B8J1111-MS1	8100261-01	Chloroethane	191	ug/kg	200	0.00	95.4	32.7-154		
B8J1111-MS1	8100261-01	Chloroform	228	ug/kg	200	0.00	114	59.9-142		
B8J1111-MS1	8100261-01	Chloromethane	163	ug/kg	200	0.00	81.4	28.2-127		
B8J1111-MS1	8100261-01	cis-1,2-Dichloroethene	215	ug/kg	200	0.00	108	65.8-138		
B8J1111-MS1	8100261-01	cis-1,3-Dichloropropene	206	ug/kg	200	0.00	103	79-121		
B8J1111-MS1	8100261-01	Cyclohexane	148	ug/kg	200	0.00	74.2	48.8-127		
B8J1111-MS1	8100261-01	Dichlorodifluoromethane	214	ug/kg	200	0.00	107	15-151		
B8J1111-MS1	8100261-01	EthylBenzene	202	ug/kg	200	0.00	101	58-118		
B8J1111-MS1	8100261-01	Isopropylbenzene	206	ug/kg	200	0.00	103	55.7-122		
B8J1111-MS1	8100261-01	m+p-Xylenes	384	ug/kg	400	0.00	96.0	57.3-121		
B8J1111-MS1	8100261-01	Methyl Acetate	179	ug/kg	200	0.00	89.4	31.6-176		
B8J1111-MS1	8100261-01	Methyl tert-Butyl Ether	201	ug/kg	200	0.00	101	64.1-150		
B8J1111-MS1	8100261-01	Methylcyclohexane	163	ug/kg	200	0.00	81.5	52.3-121		
B8J1111-MS1	8100261-01	Methylene Chloride	185	ug/kg	200	0.00	92.5	66.4-152		
B8J1111-MS1	8100261-01	o-Xylene	211	ug/kg	200	0.00	105	57.7-122		
B8J1111-MS1	8100261-01	Styrene	200	ug/kg	200	0.00	100	61.6-125		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1111 (cont.) **Method: SW 846 8260C** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1111-MS1	8100261-01	tert-Butyl alcohol	2090	ug/kg	2000	0.00	104	34-171		
B8J1111-MS1	8100261-01	Tetrachloroethene	201	ug/kg	200	0.00	101	73.7-119		
B8J1111-MS1	8100261-01	Toluene	188	ug/kg	200	0.00	94.2	65.2-125		
B8J1111-MS1	8100261-01	trans-1,2-Dichloroethene	213	ug/kg	200	0.00	107	61.6-129		
B8J1111-MS1	8100261-01	trans-1,3-Dichloropropene	234	ug/kg	200	0.00	117	77-128		
B8J1111-MS1	8100261-01	Trichloroethene	201	ug/kg	200	0.00	100	75.9-117		
B8J1111-MS1	8100261-01	Trichlorofluoromethane	179	ug/kg	200	0.00	89.4	48.1-130		
B8J1111-MS1	8100261-01	Vinyl chloride	190	ug/kg	200	0.00	95.2	34.9-130		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1111 (cont.) **Method: SW 846 8260C** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1111-MSD1	8100261-01	1,1,1-Trichloroethane	243	ug/kg	200	0.00	122	60.7-148	2.07	30
B8J1111-MSD1	8100261-01	1,1,2,2-Tetrachloroethane	205	ug/kg	200	0.00	102	65.7-121	8.20	30
B8J1111-MSD1	8100261-01	1,1,2-Trichloro-1,2,2 Trifluoroeth	152	ug/kg	200	0.00	76.2	44.9-144	0.745	30
B8J1111-MSD1	8100261-01	1,1,2-Trichloroethane	207	ug/kg	200	0.00	103	80-131	5.29	30
B8J1111-MSD1	8100261-01	1,1-Dichloroethane	215	ug/kg	200	0.00	108	64.8-137	1.96	30
B8J1111-MSD1	8100261-01	1,1-Dichloroethene	218	ug/kg	200	0.00	109	56.9-127	1.26	30
B8J1111-MSD1	8100261-01	1,2,3-Trichlorobenzene	218	ug/kg	200	0.00	109	66.9-121	3.31	30
B8J1111-MSD1	8100261-01	1,2,4-Trichlorobenzene	214	ug/kg	200	0.00	107	66.5-124	1.89	30
B8J1111-MSD1	8100261-01	1,2-Dibromo-3-chloropropane	274	ug/kg	200	0.00	137	48.7-149	9.50	30
B8J1111-MSD1	8100261-01	1,2-Dibromoethane	225	ug/kg	200	0.00	113	72.2-138	7.03	30
B8J1111-MSD1	8100261-01	1,2-Dichlorobenzene	210	ug/kg	200	0.00	105	51.2-127	0.0534	30
B8J1111-MSD1	8100261-01	1,2-Dichloroethane	277	ug/kg	200	0.00	139	59.7-163	4.34	30
B8J1111-MSD1	8100261-01	1,2-Dichloropropane	191	ug/kg	200	0.00	95.5	80.2-120	0.579	30
B8J1111-MSD1	8100261-01	1,3-Dichlorobenzene	201	ug/kg	200	0.00	100	56.6-125	3.99	30
B8J1111-MSD1	8100261-01	1,4-Dichlorobenzene	199	ug/kg	200	0.00	99.4	47.7-123	0.245	30
B8J1111-MSD1	8100261-01	2-Butanone	208	ug/kg	200	0.00	104	39.7-175	17.7	30
B8J1111-MSD1	8100261-01	2-Hexanone	225	ug/kg	200	0.00	113	49.2-166	16.1	30
B8J1111-MSD1	8100261-01	4-Methyl-2-pentanone	226	ug/kg	200	0.00	113	47.8-159	13.7	30
B8J1111-MSD1	8100261-01	Acetone	260	ug/kg	200	0.00	130	35.1-168	12.5	30
B8J1111-MSD1	8100261-01	Benzene	176	ug/kg	200	0.00	88.0	67-127	2.25	30
B8J1111-MSD1	8100261-01	Bromochloromethane	209	ug/kg	200	0.00	104	61.9-147	4.83	30
B8J1111-MSD1	8100261-01	Bromodichloromethane	240	ug/kg	200	0.00	120	80.2-125	34.4*	30
B8J1111-MSD1	8100261-01	Bromoform	246	ug/kg	200	0.00	123	73.3-129	6.06	30
B8J1111-MSD1	8100261-01	Bromomethane	190	ug/kg	200	0.00	94.9	24.6-155	6.31	30
B8J1111-MSD1	8100261-01	Carbon disulfide	130	ug/kg	200	0.00	65.2	40.6-129	0.0866	30
B8J1111-MSD1	8100261-01	Carbon Tetrachloride	238	ug/kg	200	0.00	119	59.3-142	2.58	30
B8J1111-MSD1	8100261-01	Chlorobenzene	193	ug/kg	200	0.00	96.4	59.3-122	1.31	30
B8J1111-MSD1	8100261-01	Chlorodibromomethane	242	ug/kg	200	0.00	121	79.8-129	38.3*	30
B8J1111-MSD1	8100261-01	Chloroethane	187	ug/kg	200	0.00	93.4	32.7-154	2.13	30
B8J1111-MSD1	8100261-01	Chloroform	233	ug/kg	200	0.00	117	59.9-142	2.11	30
B8J1111-MSD1	8100261-01	Chloromethane	163	ug/kg	200	0.00	81.3	28.2-127	0.0971	30
B8J1111-MSD1	8100261-01	cis-1,2-Dichloroethene	220	ug/kg	200	0.00	110	65.8-138	2.02	30
B8J1111-MSD1	8100261-01	cis-1,3-Dichloropropene	209	ug/kg	200	0.00	105	79-121	1.49	30
B8J1111-MSD1	8100261-01	Cyclohexane	150	ug/kg	200	0.00	74.9	48.8-127	0.967	30
B8J1111-MSD1	8100261-01	Dichlorodifluoromethane	198	ug/kg	200	0.00	99.0	15-151	7.95	30
B8J1111-MSD1	8100261-01	EthylBenzene	198	ug/kg	200	0.00	99.0	58-118	2.23	30
B8J1111-MSD1	8100261-01	Isopropylbenzene	202	ug/kg	200	0.00	101	55.7-122	2.13	30
B8J1111-MSD1	8100261-01	m+p-Xylenes	379	ug/kg	400	0.00	94.7	57.3-121	1.43	30
B8J1111-MSD1	8100261-01	Methyl Acetate	213	ug/kg	200	0.00	107	31.6-176	17.6	30
B8J1111-MSD1	8100261-01	Methyl tert-Butyl Ether	222	ug/kg	200	0.00	111	64.1-150	9.67	30
B8J1111-MSD1	8100261-01	Methylcyclohexane	156	ug/kg	200	0.00	77.9	52.3-121	4.58	30
B8J1111-MSD1	8100261-01	Methylene Chloride	194	ug/kg	200	0.00	97.1	66.4-152	4.84	30
B8J1111-MSD1	8100261-01	o-Xylene	208	ug/kg	200	0.00	104	57.7-122	1.27	30
B8J1111-MSD1	8100261-01	Styrene	201	ug/kg	200	0.00	100	61.6-125	0.339	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1111 (cont.) **Method: SW 846 8260C** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1111-MSD1	8100261-01	tert-Butyl alcohol	2630	ug/kg	2000	0.00	131	34-171	22.9	30
B8J1111-MSD1	8100261-01	Tetrachloroethene	192	ug/kg	200	0.00	96.1	73.7-119	4.65	30
B8J1111-MSD1	8100261-01	Toluene	185	ug/kg	200	0.00	92.5	65.2-125	1.86	30
B8J1111-MSD1	8100261-01	trans-1,2-Dichloroethene	213	ug/kg	200	0.00	106	61.6-129	0.212	30
B8J1111-MSD1	8100261-01	trans-1,3-Dichloropropene	237	ug/kg	200	0.00	119	77-128	1.54	30
B8J1111-MSD1	8100261-01	Trichloroethene	196	ug/kg	200	0.00	98.1	75.9-117	2.42	30
B8J1111-MSD1	8100261-01	Trichlorofluoromethane	250	ug/kg	200	0.00	125	48.1-130	33.4*	30
B8J1111-MSD1	8100261-01	Vinyl chloride	191	ug/kg	200	0.00	95.6	34.9-130	0.413	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Volatile Organics - GC/MS - Quality Control

Aqua Pro-Tech Laboratories

Batch B8J1141 **Method: SW 846 8260C** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1141-BS1		1,1,1-Trichloroethane	240	ug/kg	200		120	55.7-146		
B8J1141-BS1		1,1,2,2-Tetrachloroethane	194	ug/kg	200		97.0	60.6-129		
B8J1141-BS1		1,1,2-Trichloro-1,2,2 Trifluoroeth	155	ug/kg	200		77.3	40.9-152		
B8J1141-BS1		1,1,2-Trichloroethane	201	ug/kg	200		100	79.9-125		
B8J1141-BS1		1,1-Dichloroethane	211	ug/kg	200		106	56.4-138		
B8J1141-BS1		1,1-Dichloroethene	221	ug/kg	200		111	51.9-135		
B8J1141-BS1		1,2,3-Trichlorobenzene	231	ug/kg	200		116	60-138		
B8J1141-BS1		1,2,4-Trichlorobenzene	238	ug/kg	200		119	64.8-139		
B8J1141-BS1		1,2-Dibromo-3-chloropropane	255	ug/kg	200		127	45.6-154		
B8J1141-BS1		1,2-Dibromoethane	218	ug/kg	200		109	73.7-130		
B8J1141-BS1		1,2-Dichlorobenzene	216	ug/kg	200		108	55.4-130		
B8J1141-BS1		1,2-Dichloroethane	257	ug/kg	200		128	53.2-151		
B8J1141-BS1		1,2-Dichloropropane	193	ug/kg	200		96.7	75.1-122		
B8J1141-BS1		1,3-Dichlorobenzene	211	ug/kg	200		106	63.4-126		
B8J1141-BS1		1,4-Dichlorobenzene	210	ug/kg	200		105	51.4-129		
B8J1141-BS1		2-Butanone	194	ug/kg	200		96.8	39.6-169		
B8J1141-BS1		2-Hexanone	212	ug/kg	200		106	58.6-157		
B8J1141-BS1		4-Methyl-2-pentanone	213	ug/kg	200		107	53.6-156		
B8J1141-BS1		Acetone	238	ug/kg	200		119	38.5-171		
B8J1141-BS1		Benzene	178	ug/kg	200		88.8	58.1-135		
B8J1141-BS1		Bromochloromethane	203	ug/kg	200		102	51.6-146		
B8J1141-BS1		Bromodichloromethane	239	ug/kg	200		120	79.8-121		
B8J1141-BS1		Bromoform	235	ug/kg	200		118	63.4-145		
B8J1141-BS1		Bromomethane	193	ug/kg	200		96.3	18.7-164		
B8J1141-BS1		Carbon disulfide	134	ug/kg	200		66.9	15.3-152		
B8J1141-BS1		Carbon Tetrachloride	237	ug/kg	200		119	53.4-147		
B8J1141-BS1		Chlorobenzene	198	ug/kg	200		99.1	66.8-122		
B8J1141-BS1		Chlorodibromomethane	236	ug/kg	200		118	80.2-129		
B8J1141-BS1		Chloroethane	188	ug/kg	200		94.0	37-152		
B8J1141-BS1		Chloroform	224	ug/kg	200		112	51.8-141		
B8J1141-BS1		Chloromethane	166	ug/kg	200		82.8	33.9-139		
B8J1141-BS1		cis-1,2-Dichloroethene	218	ug/kg	200		109	57.5-140		
B8J1141-BS1		cis-1,3-Dichloropropene	216	ug/kg	200		108	80.5-120		
B8J1141-BS1		Cyclohexane	160	ug/kg	200		79.9	52.2-125		
B8J1141-BS1		Dichlorodifluoromethane	205	ug/kg	200		102	15-144		
B8J1141-BS1		EthylBenzene	205	ug/kg	200		103	63.7-119		
B8J1141-BS1		Isopropylbenzene	209	ug/kg	200		104	65.4-120		
B8J1141-BS1		m+p-Xylenes	392	ug/kg	400		98.0	63.5-126		
B8J1141-BS1		Methyl Acetate	196	ug/kg	200		98.0	31.8-165		
B8J1141-BS1		Methyl tert-Butyl Ether	207	ug/kg	200		103	64.7-151		
B8J1141-BS1		Methylcyclohexane	169	ug/kg	200		84.4	70.4-112		
B8J1141-BS1		Methylene Chloride	204	ug/kg	200		102	54.4-150		
B8J1141-BS1		o-Xylene	211	ug/kg	200		105	63.7-125		
B8J1141-BS1		Styrene	204	ug/kg	200		102	70.6-121		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

Batch B8J1141 (cont.) **Method: SW 846 8260C** **Prepared: 10/11/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1141-BS1		tert-Butyl alcohol	2350	ug/kg	2000		117	39.7-175		
B8J1141-BS1		Tetrachloroethene	207	ug/kg	200		104	77.9-124		
B8J1141-BS1		Toluene	194	ug/kg	200		97.0	74.8-115		
B8J1141-BS1		trans-1,2-Dichloroethene	213	ug/kg	200		106	51.7-138		
B8J1141-BS1		trans-1,3-Dichloropropene	239	ug/kg	200		119	79.7-125		
B8J1141-BS1		Trichloroethene	205	ug/kg	200		103	77.1-121		
B8J1141-BS1		Trichlorofluoromethane	248	ug/kg	200		124	47.2-144		
B8J1141-BS1		Vinyl chloride	199	ug/kg	200		99.5	44.2-137		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

F-III NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1141 (cont.) **Method: SW 846 8260C** **Prepared: 10/12/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1141-MS1	8100452-08	1,1,1-Trichloroethane	240	ug/kg	200	0.00	120	60.7-148		
B8J1141-MS1	8100452-08	1,1,2,2-Tetrachloroethane	215	ug/kg	200	0.00	107	65.7-121		
B8J1141-MS1	8100452-08	1,1,2-Trichloro-1,2,2 Trifluoroeth	154	ug/kg	200	0.00	77.1	44.9-144		
B8J1141-MS1	8100452-08	1,1,2-Trichloroethane	230	ug/kg	200	0.00	115	80-131		
B8J1141-MS1	8100452-08	1,1-Dichloroethane	221	ug/kg	200	0.00	110	64.8-137		
B8J1141-MS1	8100452-08	1,1-Dichloroethene	220	ug/kg	200	0.00	110	56.9-127		
B8J1141-MS1	8100452-08	1,2,3-Trichlorobenzene	215	ug/kg	200	0.00	108	66.9-121		
B8J1141-MS1	8100452-08	1,2,4-Trichlorobenzene	215	ug/kg	200	0.00	107	66.5-124		
B8J1141-MS1	8100452-08	1,2-Dibromo-3-chloropropane	277	ug/kg	200	0.00	139	48.7-149		
B8J1141-MS1	8100452-08	1,2-Dibromoethane	246	ug/kg	200	0.00	123	72.2-138		
B8J1141-MS1	8100452-08	1,2-Dichlorobenzene	210	ug/kg	200	0.00	105	51.2-127		
B8J1141-MS1	8100452-08	1,2-Dichloroethane	275	ug/kg	200	0.00	138	59.7-163		
B8J1141-MS1	8100452-08	1,2-Dichloropropane	211	ug/kg	200	0.00	105	80.2-120		
B8J1141-MS1	8100452-08	1,3-Dichlorobenzene	204	ug/kg	200	0.00	102	56.6-125		
B8J1141-MS1	8100452-08	1,4-Dichlorobenzene	197	ug/kg	200	0.00	98.4	47.7-123		
B8J1141-MS1	8100452-08	2-Butanone	231	ug/kg	200	0.00	116	39.7-175		
B8J1141-MS1	8100452-08	2-Hexanone	259	ug/kg	200	0.00	130	49.2-166		
B8J1141-MS1	8100452-08	4-Methyl-2-pentanone	258	ug/kg	200	0.00	129	47.8-159		
B8J1141-MS1	8100452-08	Acetone	276	ug/kg	200	0.00	138	35.1-168		
B8J1141-MS1	8100452-08	Benzene	186	ug/kg	200	0.00	93.0	67-127		
B8J1141-MS1	8100452-08	Bromochloromethane	223	ug/kg	200	0.00	111	61.9-147		
B8J1141-MS1	8100452-08	Bromodichloromethane	254	ug/kg	200	0.00	127*	80.2-125		
B8J1141-MS1	8100452-08	Bromoform	249	ug/kg	200	0.00	124	73.3-129		
B8J1141-MS1	8100452-08	Bromomethane	169	ug/kg	200	0.00	84.6	24.6-155		
B8J1141-MS1	8100452-08	Carbon disulfide	135	ug/kg	200	0.00	67.6	40.6-129		
B8J1141-MS1	8100452-08	Carbon Tetrachloride	237	ug/kg	200	0.00	118	59.3-142		
B8J1141-MS1	8100452-08	Chlorobenzene	200	ug/kg	200	0.00	99.9	59.3-122		
B8J1141-MS1	8100452-08	Chlorodibromomethane	260	ug/kg	200	0.00	130*	79.8-129		
B8J1141-MS1	8100452-08	Chloroethane	185	ug/kg	200	0.00	92.4	32.7-154		
B8J1141-MS1	8100452-08	Chloroform	233	ug/kg	200	0.00	117	59.9-142		
B8J1141-MS1	8100452-08	Chloromethane	168	ug/kg	200	0.00	84.0	28.2-127		
B8J1141-MS1	8100452-08	cis-1,2-Dichloroethene	222	ug/kg	200	0.00	111	65.8-138		
B8J1141-MS1	8100452-08	cis-1,3-Dichloropropene	230	ug/kg	200	0.00	115	79-121		
B8J1141-MS1	8100452-08	Cyclohexane	161	ug/kg	200	0.00	80.7	48.8-127		
B8J1141-MS1	8100452-08	Dichlorodifluoromethane	188	ug/kg	200	0.00	93.9	15-151		
B8J1141-MS1	8100452-08	EthylBenzene	201	ug/kg	200	0.00	101	58-118		
B8J1141-MS1	8100452-08	Isopropylbenzene	203	ug/kg	200	0.00	101	55.7-122		
B8J1141-MS1	8100452-08	m+p-Xylenes	387	ug/kg	400	0.00	96.8	57.3-121		
B8J1141-MS1	8100452-08	Methyl Acetate	235	ug/kg	200	0.00	117	31.6-176		
B8J1141-MS1	8100452-08	Methyl tert-Butyl Ether	227	ug/kg	200	0.00	113	64.1-150		
B8J1141-MS1	8100452-08	Methylcyclohexane	173	ug/kg	200	0.00	86.7	52.3-121		
B8J1141-MS1	8100452-08	Methylene Chloride	204	ug/kg	200	0.00	102	66.4-152		
B8J1141-MS1	8100452-08	o-Xylene	207	ug/kg	200	0.00	104	57.7-122		
B8J1141-MS1	8100452-08	Styrene	204	ug/kg	200	0.00	102	61.6-125		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1141 (cont.) **Method: SW 846 8260C** **Prepared: 10/12/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1141-MS1	8100452-08	tert-Butyl alcohol	2900	ug/kg	2000	0.00	145	34-171		
B8J1141-MS1	8100452-08	Tetrachloroethene	205	ug/kg	200	0.00	103	73.7-119		
B8J1141-MS1	8100452-08	Toluene	204	ug/kg	200	0.00	102	65.2-125		
B8J1141-MS1	8100452-08	trans-1,2-Dichloroethene	217	ug/kg	200	0.00	109	61.6-129		
B8J1141-MS1	8100452-08	trans-1,3-Dichloropropene	258	ug/kg	200	0.00	129*	77-128		
B8J1141-MS1	8100452-08	Trichloroethene	214	ug/kg	200	0.00	107	75.9-117		
B8J1141-MS1	8100452-08	Trichlorofluoromethane	241	ug/kg	200	0.00	120	48.1-130		
B8J1141-MS1	8100452-08	Vinyl chloride	192	ug/kg	200	0.00	96.2	34.9-130		

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1141 (cont.) **Method: SW 846 8260C** **Prepared: 10/12/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1141-MSD1	8100452-08	1,1,1-Trichloroethane	234	ug/kg	200	0.00	117	60.7-148	2.60	30
B8J1141-MSD1	8100452-08	1,1,2,2-Tetrachloroethane	179	ug/kg	200	0.00	89.7	65.7-121	18.0	30
B8J1141-MSD1	8100452-08	1,1,2-Trichloro-1,2,2 Trifluoroeth	151	ug/kg	200	0.00	75.4	44.9-144	2.27	30
B8J1141-MSD1	8100452-08	1,1,2-Trichloroethane	201	ug/kg	200	0.00	101	80-131	13.3	30
B8J1141-MSD1	8100452-08	1,1-Dichloroethane	213	ug/kg	200	0.00	106	64.8-137	3.65	30
B8J1141-MSD1	8100452-08	1,1-Dichloroethene	215	ug/kg	200	0.00	107	56.9-127	2.48	30
B8J1141-MSD1	8100452-08	1,2,3-Trichlorobenzene	200	ug/kg	200	0.00	100	66.9-121	7.04	30
B8J1141-MSD1	8100452-08	1,2,4-Trichlorobenzene	206	ug/kg	200	0.00	103	66.5-124	4.22	30
B8J1141-MSD1	8100452-08	1,2-Dibromo-3-chloropropane	224	ug/kg	200	0.00	112	48.7-149	21.4	30
B8J1141-MSD1	8100452-08	1,2-Dibromoethane	214	ug/kg	200	0.00	107	72.2-138	13.9	30
B8J1141-MSD1	8100452-08	1,2-Dichlorobenzene	201	ug/kg	200	0.00	101	51.2-127	4.30	30
B8J1141-MSD1	8100452-08	1,2-Dichloroethane	248	ug/kg	200	0.00	124	59.7-163	10.3	30
B8J1141-MSD1	8100452-08	1,2-Dichloropropane	200	ug/kg	200	0.00	100	80.2-120	5.26	30
B8J1141-MSD1	8100452-08	1,3-Dichlorobenzene	192	ug/kg	200	0.00	96.1	56.6-125	5.75	30
B8J1141-MSD1	8100452-08	1,4-Dichlorobenzene	193	ug/kg	200	0.00	96.3	47.7-123	2.13	30
B8J1141-MSD1	8100452-08	2-Butanone	180	ug/kg	200	0.00	89.8	39.7-175	25.2	30
B8J1141-MSD1	8100452-08	2-Hexanone	199	ug/kg	200	0.00	99.6	49.2-166	26.1	30
B8J1141-MSD1	8100452-08	4-Methyl-2-pentanone	207	ug/kg	200	0.00	104	47.8-159	21.9	30
B8J1141-MSD1	8100452-08	Acetone	212	ug/kg	200	0.00	106	35.1-168	26.1	30
B8J1141-MSD1	8100452-08	Benzene	180	ug/kg	200	0.00	90.2	67-127	3.06	30
B8J1141-MSD1	8100452-08	Bromochloromethane	205	ug/kg	200	0.00	102	61.9-147	8.29	30
B8J1141-MSD1	8100452-08	Bromodichloromethane	238	ug/kg	200	0.00	119	80.2-125	6.29	30
B8J1141-MSD1	8100452-08	Bromoform	210	ug/kg	200	0.00	105	73.3-129	16.7	30
B8J1141-MSD1	8100452-08	Bromomethane	193	ug/kg	200	0.00	96.3	24.6-155	13.0	30
B8J1141-MSD1	8100452-08	Carbon disulfide	132	ug/kg	200	0.00	66.2	40.6-129	2.20	30
B8J1141-MSD1	8100452-08	Carbon Tetrachloride	229	ug/kg	200	0.00	115	59.3-142	3.20	30
B8J1141-MSD1	8100452-08	Chlorobenzene	192	ug/kg	200	0.00	96.1	59.3-122	3.91	30
B8J1141-MSD1	8100452-08	Chlorodibromomethane	233	ug/kg	200	0.00	117	79.8-129	10.7	30
B8J1141-MSD1	8100452-08	Chloroethane	187	ug/kg	200	0.00	93.3	32.7-154	0.897	30
B8J1141-MSD1	8100452-08	Chloroform	221	ug/kg	200	0.00	111	59.9-142	5.42	30
B8J1141-MSD1	8100452-08	Chloromethane	170	ug/kg	200	0.00	84.8	28.2-127	0.960	30
B8J1141-MSD1	8100452-08	cis-1,2-Dichloroethene	215	ug/kg	200	0.00	107	65.8-138	3.30	30
B8J1141-MSD1	8100452-08	cis-1,3-Dichloropropene	214	ug/kg	200	0.00	107	79-121	7.26	30
B8J1141-MSD1	8100452-08	Cyclohexane	157	ug/kg	200	0.00	78.7	48.8-127	2.51	30
B8J1141-MSD1	8100452-08	Dichlorodifluoromethane	196	ug/kg	200	0.00	98.1	15-151	4.36	30
B8J1141-MSD1	8100452-08	EthylBenzene	196	ug/kg	200	0.00	97.8	58-118	2.87	30
B8J1141-MSD1	8100452-08	Isopropylbenzene	197	ug/kg	200	0.00	98.7	55.7-122	2.75	30
B8J1141-MSD1	8100452-08	m+p-Xylenes	375	ug/kg	400	0.00	93.9	57.3-121	3.04	30
B8J1141-MSD1	8100452-08	Methyl Acetate	184	ug/kg	200	0.00	91.9	31.6-176	24.3	30
B8J1141-MSD1	8100452-08	Methyl tert-Butyl Ether	201	ug/kg	200	0.00	101	64.1-150	12.0	30
B8J1141-MSD1	8100452-08	Methylcyclohexane	173	ug/kg	200	0.00	86.3	52.3-121	0.469	30
B8J1141-MSD1	8100452-08	Methylene Chloride	193	ug/kg	200	0.00	96.6	66.4-152	5.46	30
B8J1141-MSD1	8100452-08	o-Xylene	202	ug/kg	200	0.00	101	57.7-122	2.61	30
B8J1141-MSD1	8100452-08	Styrene	194	ug/kg	200	0.00	96.8	61.6-125	5.28	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

Batch B8J1141 (cont.) **Method: SW 846 8260C** **Prepared: 10/12/2018**

Lab Number	Source	Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
B8J1141-MSD1	8100452-08	tert-Butyl alcohol	2130	ug/kg	2000	0.00	106	34-171	30.5*	30
B8J1141-MSD1	8100452-08	Tetrachloroethene	201	ug/kg	200	0.00	101	73.7-119	2.14	30
B8J1141-MSD1	8100452-08	Toluene	199	ug/kg	200	0.00	99.6	65.2-125	2.13	30
B8J1141-MSD1	8100452-08	trans-1,2-Dichloroethene	211	ug/kg	200	0.00	105	61.6-129	3.17	30
B8J1141-MSD1	8100452-08	trans-1,3-Dichloropropene	234	ug/kg	200	0.00	117	77-128	9.66	30
B8J1141-MSD1	8100452-08	Trichloroethene	208	ug/kg	200	0.00	104	75.9-117	2.59	30
B8J1141-MSD1	8100452-08	Trichlorofluoromethane	243	ug/kg	200	0.00	121	48.1-130	0.692	30
B8J1141-MSD1	8100452-08	Vinyl chloride	195	ug/kg	200	0.00	97.5	34.9-130	1.30	30

* - Outside of QC Limits J - Result is between the MDL and RL for an Analysis reported to an RL

NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

VOLATILE METHOD BLANK SUMMARY

Batch ID: **B8J1111** **Instrument:** GCMS-3

Sequence ID: S8J1704

Lab Number	Sample ID	Analyzed	File ID
B8J1111-BLK1	BLK1	10/10/2018 15:02	3V33994.D
B8J1111-BS1	BS1	10/10/2018 14:03	3V33992.D
B8J1111-MS1	MS1	10/11/2018 0:28	3V34013.D
B8J1111-MSD1	MSD1	10/11/2018 0:57	3V34014.D
8100452-01	NTP-1A	10/10/2018 18:59	3V34002.D
8100452-02	NTP-2A	10/10/2018 19:28	3V34003.D
8100452-05	NTP-4B	10/10/2018 19:58	3V34004.D
8100452-06	NTP-6	10/10/2018 20:28	3V34005.D
8100452-07	NTP-7	10/10/2018 21:02	3V34006.D
8100452-11	STP-4A	10/10/2018 22:01	3V34008.D
8100452-12	STP-4B	10/10/2018 22:30	3V34009.D
8100452-14	STP-7	10/10/2018 22:59	3V34010.D

Batch ID: **B8J1141** **Instrument:** GCMS-3

Sequence ID: S8J1706

Lab Number	Sample ID	Analyzed	File ID
B8J1141-BLK1	BLK1	10/11/2018 13:05	3V34019.D
B8J1141-BS1	BS1	10/11/2018 12:35	3V34018.D
B8J1141-MS1	MS1	10/12/2018 1:37	3V34039.D
B8J1141-MSD1	MSD1	10/12/2018 2:06	3V34040.D
8100452-08	STP-1B	10/11/2018 13:34	3V34020.D

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-3	Project:	Ridgewood
Sequence:	S8G2901		

Lab Sample ID:	**S8G2901-TUN1**	Injection Date:	07/17/2018	Injection Time:	11:46
Lab File ID:	3V32663.D				

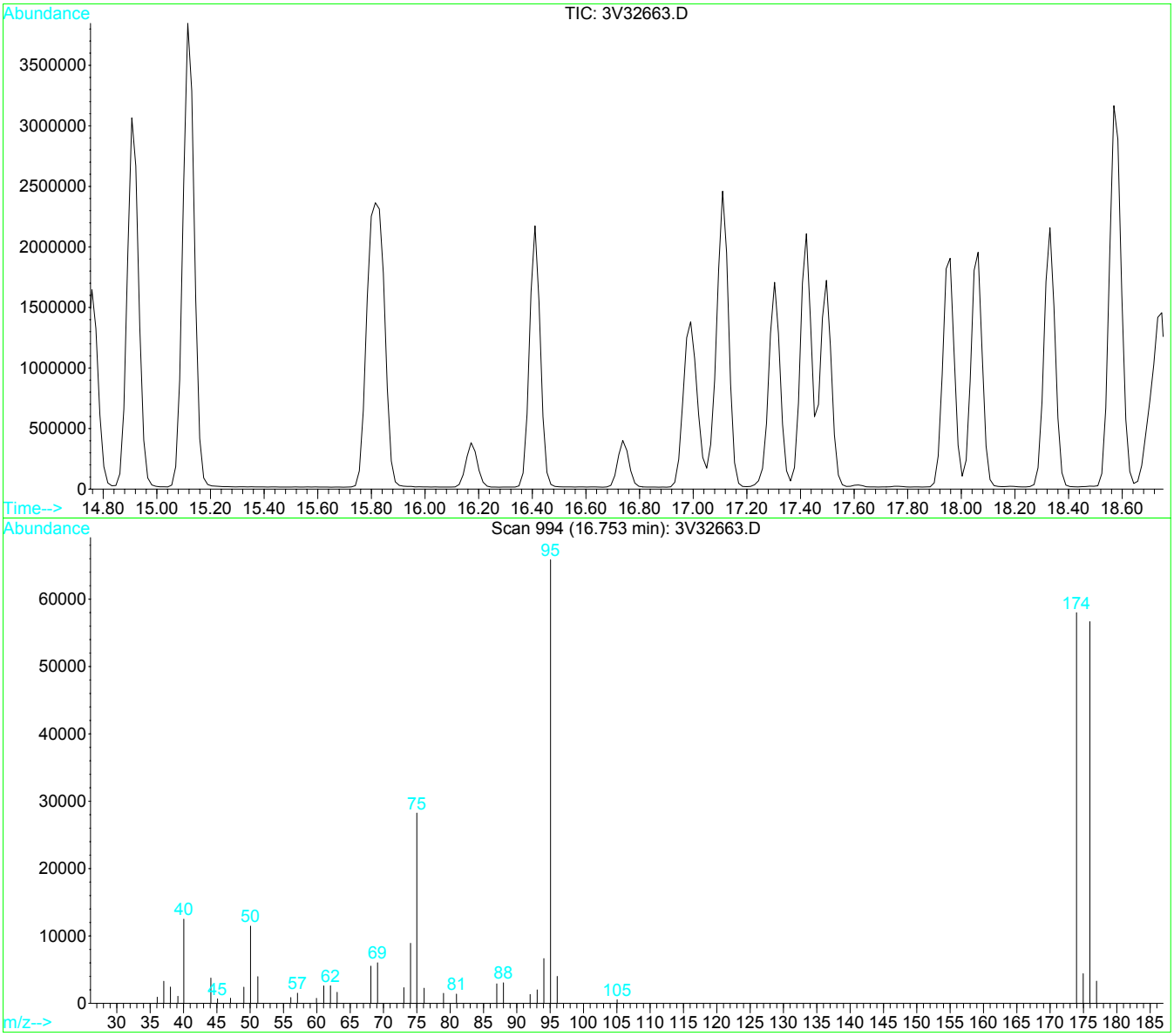
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	17.4	PASS
75	30 - 60% of 95	42.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.08	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	88.1	PASS
175	5 - 9% of 174	7.58	PASS
176	95 - 101% of 174	97.7	PASS
177	5 - 9% of 176	5.82	PASS

Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Cal Standard	S8G2901-CAL1	3V32673.D	07/17/2018	17:55.00
Cal Standard	S8G2901-CAL2	3V32674.D	07/17/2018	18:24.00
Cal Standard	S8G2901-CAL3	3V32675.D	07/17/2018	18:53.00
Cal Standard	S8G2901-CAL4	3V32676.D	07/17/2018	19:21.00
Cal Standard	S8G2901-CAL5	3V32677.D	07/17/2018	19:50.00
Cal Standard	S8G2901-CAL6	3V32678.D	07/17/2018	20:18.00
Cal Standard	S8G2901-CAL7	3V32679.D	07/17/2018	20:47.00

F-V

Data File : G:\HPCHEM\3\DATA\07172018\3V32663.D Vial: 50
Acq On : 17 Jul 2018 11:46 Operator: omd
Sample : SEQ-TUN Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C



Spectrum Information: Scan 994

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.4	11466	PASS
75	95	30	60	42.9	28256	PASS
95	95	100	100	100.0	65848	PASS
96	95	5	9	6.1	4006	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	88.1	58000	PASS
175	174	5	9	7.6	4395	PASS
176	174	95	101	97.7	56664	PASS
177	176	5	9	5.8	3296	PASS

3V32663.D 0717WC3.M Thu Aug 16 14:04:49 2018 SS

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-3	Project:	Ridgewood
Sequence:	S8J1704		

Lab Sample ID:	**S8J1704-TUN1**	Injection Date:	10/10/2018	Injection Time:	12:59
Lab File ID:	3V33990.D				

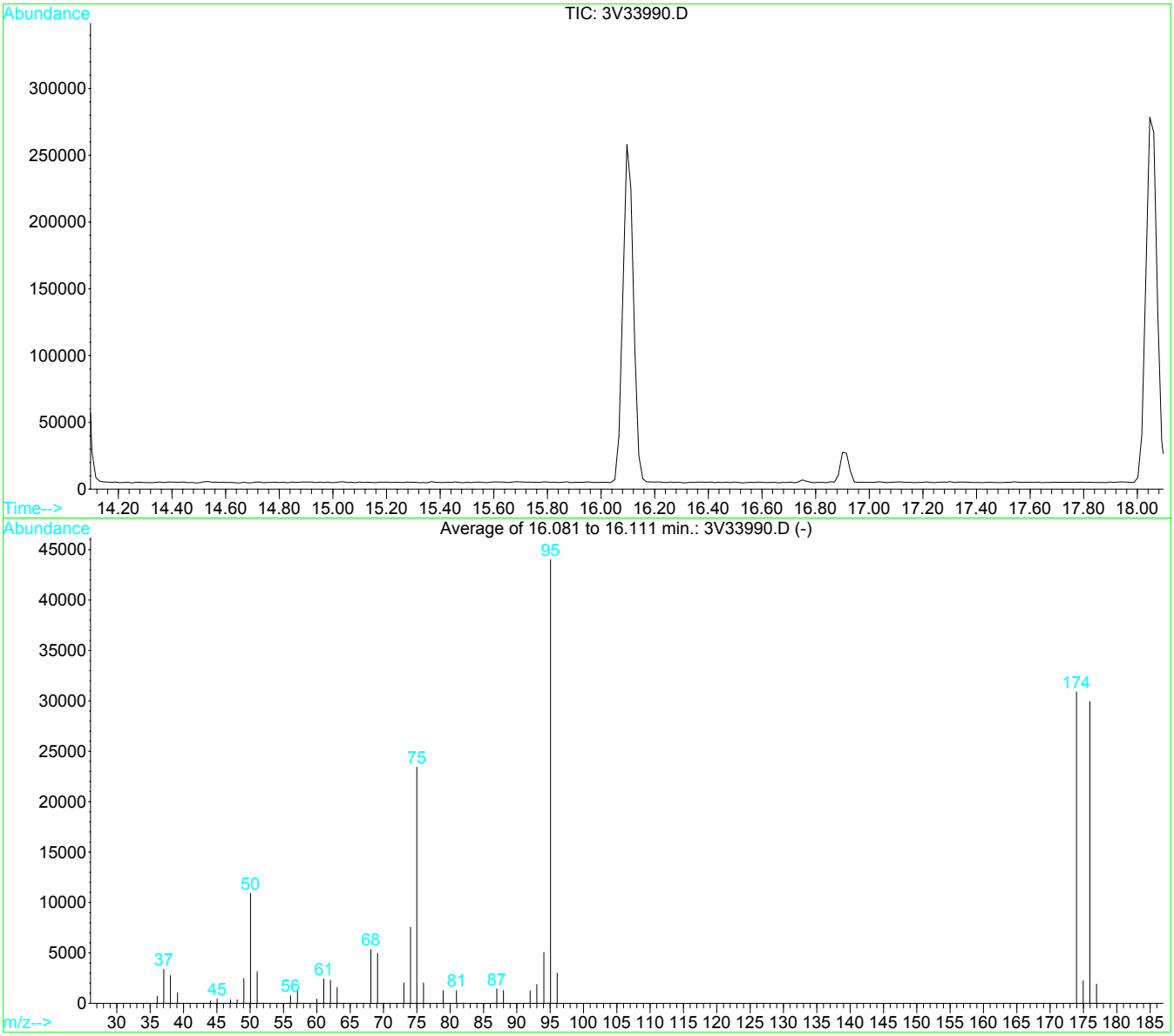
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	24.8	PASS
75	30 - 60% of 95	53.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.8	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	70.2	PASS
175	5 - 9% of 174	7.22	PASS
176	95 - 101% of 174	96.9	PASS
177	5 - 9% of 176	6.38	PASS

Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Calibration Check	S8J1704-CCV1	3V33991.D	10/10/2018	13:33.00
LCS	B8J1111-BS1	3V33992.D	10/10/2018	14:03.00
Blank	B8J1111-BLK1	3V33994.D	10/10/2018	15:02.00
NTP-1A	8100452-01	3V34002.D	10/10/2018	18:59.00
NTP-2A	8100452-02	3V34003.D	10/10/2018	19:28.00
NTP-4B	8100452-05	3V34004.D	10/10/2018	19:58.00
NTP-6	8100452-06	3V34005.D	10/10/2018	20:28.00
NTP-7	8100452-07	3V34006.D	10/10/2018	21:02.00
STP-4A	8100452-11	3V34008.D	10/10/2018	22:01.00
STP-4B	8100452-12	3V34009.D	10/10/2018	22:30.00
STP-7	8100452-14	3V34010.D	10/10/2018	22:59.00
Matrix Spike	B8J1111-MS1	3V34013.D	10/11/2018	0:28.00
Matrix Spike Dup	B8J1111-MSD1	3V34014.D	10/11/2018	0:57.00

F-V

Data File : G:\HPCHEM\3\DATA\10102018\3V33990.D Vial: 41
Acq On : 10 Oct 2018 12:59 Operator: omd
Sample : SEQ-TUN Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C



Spectrum Information: Average of 16.081 to 16.111 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.8	10911	PASS
75	95	30	60	53.2	23416	PASS
95	95	100	100	100.0	44005	PASS
96	95	5	9	6.8	2994	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	70.2	30888	PASS
175	174	5	9	7.2	2231	PASS
176	174	95	101	96.9	29928	PASS
177	176	5	9	6.4	1909	PASS

3V33990.D 0717WC3.M Wed Oct 17 12:05:02 2018 SS

INSTRUMENT PERFORMANCE CHECK

Client:	Peak Environmental	Work Order:	8100452
Instrument ID:	GCMS-3	Project:	Ridgewood
Sequence:	S8J1706		

Lab Sample ID:	**S8J1706-TUN1**	Injection Date:	10/11/2018	Injection Time:	11:36
Lab File ID:	3V34016.D				

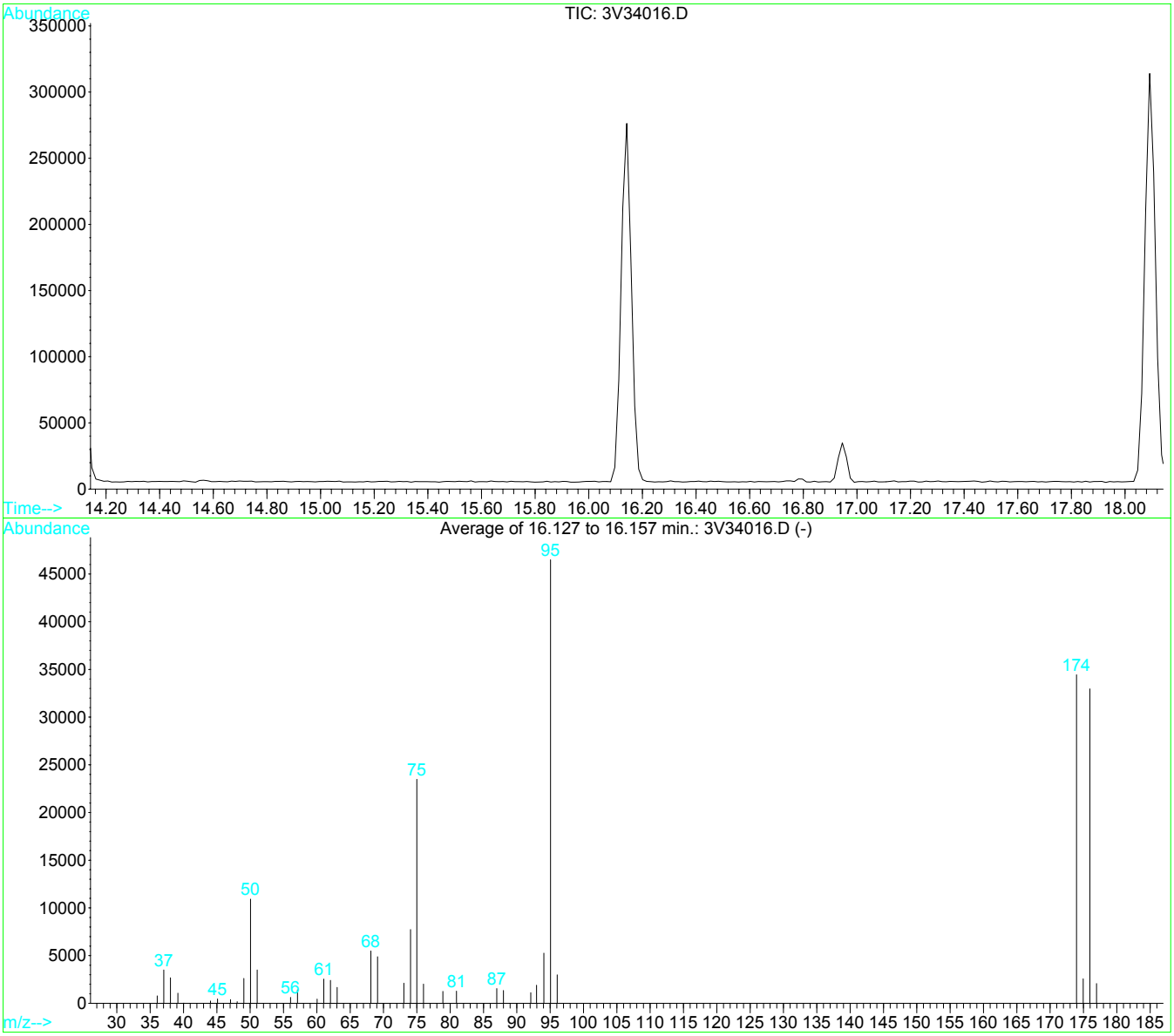
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	23.5	PASS
75	30 - 60% of 95	50.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.43	PASS
173	Less than 2% of 174	0	PASS
174	50 - 100% of 95	74.1	PASS
175	5 - 9% of 174	7.47	PASS
176	95 - 101% of 174	95.7	PASS
177	5 - 9% of 176	6.31	PASS

Samples Associated with Tune

Client ID or QC Type	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Calibration Check	S8J1706-CCV1	3V34017.D	10/11/2018	12:06.00
LCS	B8J1141-BS1	3V34018.D	10/11/2018	12:35.00
Blank	B8J1141-BLK1	3V34019.D	10/11/2018	13:05.00
STP-1B	8100452-08	3V34020.D	10/11/2018	13:34.00
Matrix Spike	B8J1141-MS1	3V34039.D	10/12/2018	1:37.00
Matrix Spike Dup	B8J1141-MSD1	3V34040.D	10/12/2018	2:06.00

F-V

Data File : G:\HPCHEM\3\DATA\10112018\3V34016.D Vial: 71
Acq On : 11 Oct 2018 11:36 Operator: omd
Sample : SEQ-TUN Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C



AutoFind: Scans 979, 980, 981; Background Corrected with Scan 974

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	10925	PASS
75	95	30	60	50.5	23488	PASS
95	95	100	100	100.0	46496	PASS
96	95	5	9	6.4	2988	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.1	34440	PASS
175	174	5	9	7.5	2571	PASS
176	174	95	101	95.7	32968	PASS
177	176	5	9	6.3	2079	PASS

3V34016.D 0717WC3.M Wed Oct 17 12:24:55 2018 SS

Response Factor Report GCMS-3

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Sun Jul 29 14:39:15 2018
Response via : Initial Calibration

Calibration Files
2 =3V32673.D 5 =3V32674.D 40 =3V32675.D
80 =3V32676.D 200 =3V32678.D 400 =3V32679.D

		Compound	2	5	40	80	200	400	Avg	%RSD
1)	I	Pentafluorobenzene	----------	ISTD	----------					
2)		Dichlorodifluoromet	0.237	0.311	0.343	0.326	0.299	0.297	0.301	11.10
3)	P	Chloromethane	0.441	0.436	0.469	0.458	0.449	0.447	0.446	3.29
4)		Acrolein			0.025	0.025	0.035	0.024	0.027	17.67
5)	C	Vinyl Chloride	0.325	0.451	0.468	0.467	0.457	0.460	0.437	11.69
6)		Bromomethane	0.279	0.290	0.302	0.298	0.232	0.200	0.269	14.28
7)		Chloroethane	0.229	0.306	0.339	0.351	0.311	0.291	0.307	13.03
8)		Trichlorofluorometh	0.519	0.589	0.599	0.595	0.583	0.586	0.576	4.86
9)		1,1,2-Trichloro-1,2	0.441	0.467	0.490	0.489	0.487	0.490	0.475	4.05
10)		Acetone		0.113	0.142	0.130	0.168	0.112	0.131	16.20
11)	C	1,1-Dichloroethene	0.638	0.677	0.706	0.704	0.703	0.706	0.686	3.82
12)		tert-Butyl Alcohol	0.031	0.026	0.041	0.037	0.051	0.033	0.036	22.13
13)		Methyl Acetate	0.242	0.257	0.341	0.310	0.398	0.274	0.302	17.84
14)		Methylene Chloride	2.466	1.205	0.545	0.522	0.482	0.455	0.877	85.53
15)		Carbon Disulfide	1.630	1.752	1.774	1.771	1.772	1.807	1.740	3.67
16)		Acrylonitrile		0.053	0.140	0.142	0.182	0.125	0.129	32.84
17)		Methyl tert-Butyl E	0.976	0.988	1.147	1.115	1.236	1.068	1.084	8.40
18)		trans-1,2-Dichloroe	0.526	0.617	0.676	0.677	0.663	0.680	0.639	8.66
19)	P	1,1-Dichloroethane	0.697	0.726	0.809	0.810	0.821	0.815	0.779	6.30
20)		Vinyl Acetate							0.000	-1.00
21)		2-Butanone		0.152	0.228	0.208	0.267	0.176	0.204	19.76
22)		2,2-Dichloropropane	0.464	0.566	0.609	0.611	0.614	0.620	0.580	9.48
23)		cis-1,2-Dichloroeth	0.580	0.695	0.766	0.770	0.781	0.775	0.728	9.92
24)	C	Chloroform	0.702	0.723	0.784	0.771	0.772	0.761	0.747	4.28
25)		Bromochloromethane	0.316	0.360	0.411	0.405	0.416	0.389	0.383	9.21
26)	S	Dibromofluoromethan	0.602	0.604	0.613	0.606	0.605	0.605	0.608	1.11
27)		Cyclohexane	0.678	0.805	0.810	0.814	0.805	0.820	0.786	6.39
28)		1,1,1-Trichloroetha	0.486	0.587	0.618	0.621	0.623	0.621	0.592	8.32
29)		1,1-Dichloropropene	0.453	0.590	0.610	0.599	0.607	0.608	0.577	9.78
30)		Carbon Tetrachlorid	0.500	0.518	0.551	0.546	0.546	0.555	0.534	3.95
31)		1,2-Dichloroethane	0.454	0.485	0.557	0.545	0.612	0.546	0.531	9.65
32)		Benzene	1.543	1.653	1.751	1.711	1.737	1.786	1.686	5.07
33)	I	1,4-Difluorobenzene	----------	ISTD	----------					
34)		Trichloroethene	0.203	0.213	0.238	0.243	0.240	0.242	0.230	6.91
35)		Methylcyclohexane	0.358	0.395	0.413	0.413	0.415	0.422	0.401	5.43
36)	C	1,2-Dichloropropane	0.185	0.228	0.237	0.241	0.248	0.240	0.230	9.15
37)		Bromodichloromethan	0.288	0.302	0.318	0.320	0.326	0.314	0.309	4.34
38)		p-Dioxane							0.000	-1.00
39)		Dibromomethane		0.109	0.133	0.132	0.145	0.125	0.128	9.30
40)		2-Chloroethylvinyl		0.085	0.126	0.123	0.144	0.116	0.118	16.38
41)		4-Methyl-2-Pentanon	0.206	0.179	0.248	0.230	0.287	0.204	0.224	15.67
42)		cis-1,3-Dichloropro	0.321	0.354	0.384	0.387	0.406	0.390	0.372	7.66
43)	S	Toluene-d8	1.117	1.137	1.109	1.126	1.127	1.136	1.125	0.90
44)	C	Toluene	0.857	0.910	0.947	0.955	0.960	0.943	0.923	4.21
45)		trans-1,3-Dichlorop	0.293	0.284	0.346	0.336	0.367	0.333	0.325	9.01
46)		1,1,2-Trichloroetha	0.165	0.162	0.190	0.181	0.202	0.171	0.178	8.13
47)		2-Hexanone	0.131	0.128	0.185	0.168	0.215	0.149	0.162	19.06
48)		1,3-Dichloropropane	0.319	0.282	0.330	0.326	0.355	0.312	0.319	6.97
49)		Tetrachloroethene	0.202	0.224	0.240	0.239	0.237	0.242	0.229	6.33
50)		Dibromochloromethan	0.179	0.202	0.229	0.228	0.244	0.219	0.217	9.68
51)		1,2-Dibromoethane	0.156	0.157	0.189	0.183	0.209	0.170	0.177	10.58
52)	I	Chlorobenzene-d5	----------	ISTD	----------					
53)	C	Chlorobenzene	1.141	1.083	1.158	1.113	1.162	1.126	1.120	3.56
54)		1,1,1,2-Tetrachloro	0.351	0.373	0.415	0.402	0.410	0.382	0.387	5.98
55)	C	Ethylbenzene	1.865	1.981	2.071	2.010	2.056	1.975	1.980	3.84
56)		m+p-Xylenes	0.680	0.725	0.773	0.742	0.753	0.714	0.726	4.50
57)		o-Xylene	1.433	1.501	1.622	1.553	1.595	1.527	1.531	4.26

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report GCMS-3

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Sun Jul 29 14:39:15 2018
Response via : Initial Calibration

Calibration Files
2 =3V32673.D 5 =3V32674.D 40 =3V32675.D
80 =3V32676.D 200 =3V32678.D 400 =3V32679.D

		Compound	2	5	40	80	200	400	Avg	%RSD
58)		Styrene	1.089	1.177	1.260	1.242	1.263	1.199	1.200	5.16
59)		Isopropylbenzene	1.738	1.868	1.969	1.905	1.979	1.917	1.883	4.63
60)	P	Bromoform	0.259	0.224	0.285	0.264	0.307	0.244	0.262	10.49
61)	P	1,1,2,2-Tetrachloro	0.432	0.425	0.521	0.457	0.552	0.420	0.463	11.19
62)	S	4-Bromofluorobenzen	0.852	0.853	0.857	0.821	0.860	0.823	0.842	1.98
63)		1,2,3-Trichloroprop		0.103	0.139	0.123	0.151	0.108	0.123	15.22
64)		n-Propylbenzene	2.345	2.462	2.495	2.440	2.521	2.409	2.431	2.84
65)		Bromobenzene	0.756	0.704	0.799	0.763	0.823	0.749	0.761	5.30
66)		2-Chlorotoluene	1.302	1.306	1.417	1.354	1.407	1.351	1.349	3.61
67)		4-Chlorotoluene	1.402	1.529	1.659	1.603	1.644	1.561	1.560	5.61
68)		1,3,5-Trimethylbenz	1.423	1.481	1.598	1.543	1.583	1.545	1.524	4.03
69)		tert-Butylbenzene	1.201	1.301	1.366	1.313	1.344	1.284	1.291	4.63
70)		1,2,4-Trimethylbenz	1.362	1.481	1.563	1.541	1.584	1.527	1.504	4.98
71)		sec-Butylbenzene	2.017	2.085	2.248	2.163	2.215	2.122	2.130	3.92
72)		4-Isopropyltoluene	1.534	1.624	1.795	1.769	1.792	1.632	1.687	5.95
73)		1,3-Dichlorobenzene	0.822	0.848	0.915	0.875	0.884	0.799	0.852	4.83
74)	I	1,4-Dichlorobenzene-d	----------	----------	ISTD	----------	----------	----------		
75)		1,4-Dichlorobenzene	0.928	0.909	0.986	0.979	1.007	0.974	0.960	3.73
76)		n-Butylbenzene	1.668	1.807	1.995	1.964	1.951	1.958	1.894	6.14
77)		1,2-Dichlorobenzene	0.741	0.816	0.876	0.863	0.912	0.866	0.845	6.48
78)		1,2-Dibromo-3-chlor		0.046	0.088	0.081	0.102	0.072	0.077	24.41
79)		1,2,4-Trichlorobenz	0.428	0.425	0.549	0.573	0.606	0.583	0.531	13.89
80)		Hexachlorobutadiene	0.322	0.339	0.317	0.322	0.326	0.336	0.324	3.27
81)		Naphthalene	1.367	0.900	1.152	1.169	1.412	1.150	1.186	14.20
82)		1,2,3-Trichlorobenz	0.450	0.395	0.483	0.488	0.546	0.509	0.479	9.88
83)		Indan							0.000	-1.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

Compound List Report GCMS-3

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Sun Jul 29 14:39:15 2018
Response via : Initial Calibration
Total Cpnds : 83

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Pentafluorobenzene	168	8.19	1.000	A	2	A	B
2		Dichlorodifluoromethane	85	2.07	0.253	A	1	A	B
3	P	Chloromethane	50	2.30	0.280	A	1	A	B
4		Acrolein	56	3.76	0.459	A	1	A	B
5	C	Vinyl Chloride	62	2.40	0.293	A	1	A	B
6		Bromomethane	94	2.77	0.339	A	2	A	B
7		Chloroethane	64	2.89	0.353	A	1	A	B
8		Trichlorofluoromethane	101	3.20	0.390	A	1	A	B
9		1,1,2-Trichloro-1,2,2 Trifluor	101	3.85	0.470	A	2	A	B
10		Acetone	43	3.97	0.485	A	1	A	B
11	C	1,1-Dichloroethene	61	3.88	0.474	A	2	A	B
12		tert-Butyl Alcohol	59	4.76	0.581	Q	2	A	B
13		Methyl Acetate	43	4.42	0.539	A	1	A	B
14		Methylene Chloride	84	4.64	0.567	Q	2	A	B
15		Carbon Disulfide	76	4.21	0.514	A	1	A	B
16		Acrylonitrile	53	5.07	0.619	Q	2	A	B
17		Methyl tert-Butyl Ether	73	5.01	0.612	A	1	A	B
18		trans-1,2-Dichloroethene	61	5.06	0.618	A	2	A	B
19	P	1,1-Dichloroethane	63	5.89	0.720	A	2	A	B
20		Vinyl Acetate	43	5.94	0.725	A	1	A	B
21		2-Butanone	43	7.10	0.867	A	1	A	B
22		2,2-Dichloropropane	77	7.06	0.862	A	1	A	B
23		cis-1,2-Dichloroethene	61	7.10	0.867	A	1	A	B
24	C	Chloroform	83	7.74	0.945	A	1	A	B
25		Bromochloromethane	49	7.58	0.925	A	2	A	B
26	S	Dibromofluoromethane	113	8.06	0.984	A	2	A	B
27		Cyclohexane	56	8.07	0.985	A	2	A	B
28		1,1,1-Trichloroethane	97	8.04	0.982	A	2	A	B
29		1,1-Dichloropropene	75	8.37	1.022	A	2	A	B
30		Carbon Tetrachloride	117	8.33	1.016	A	2	A	B
31		1,2-Dichloroethane	62	8.88	1.084	A	1	A	B
32		Benzene	78	8.73	1.066	A	1	A	B
33	I	1,4-Difluorobenzene	114	9.53	1.000	A	2	A	B
34		Trichloroethene	130	9.98	1.047	A	2	A	B
35		Methylcyclohexane	83	10.25	1.075	A	2	A	B
36	C	1,2-Dichloropropane	63	10.41	1.092	A	2	A	B
37		Bromodichloromethane	83	10.93	1.147	A	1	A	B
38		p-Dioxane	88	8.72	0.914	A	2	A	B
39		Dibromomethane	174	10.63	1.115	A	2	A	B
40		2-Chloroethylvinyl Ether	63	11.49	1.206	A	1	A	B
41		4-Methyl-2-Pentanone	43	11.99	1.257	A	2	A	B
42		cis-1,3-Dichloropropene	75	11.75	1.232	A	2	A	B
43	S	Toluene-d8	98	12.16	1.276	A	2	A	B
44	C	Toluene	91	12.28	1.288	A	1	A	B
45		trans-1,3-Dichloropropene	75	12.77	1.340	A	2	A	B
46		1,1,2-Trichloroethane	97	13.09	1.373	A	1	A	B
47		2-Hexanone	43	13.47	1.413	A	2	A	B
48		1,3-Dichloropropane	76	13.38	1.404	A	1	A	B
49		Tetrachloroethene	166	13.25	1.390	A	2	A	B
50		Dibromochloromethane	129	13.74	1.441	A	1	A	B
51		1,2-Dibromoethane	107	13.93	1.462	A	1	A	B
52	I	Chlorobenzene-d5	82	14.70	1.000	A	2	A	B
53	C	Chlorobenzene	112	14.74	1.003	A	1	A	B
54		1,1,1,2-Tetrachloroethane	131	14.91	1.014	A	2	A	B
55	C	Ethylbenzene	91	14.89	1.013	A	1	A	B
56		m+p-Xylenes	106	15.11	1.028	A	2	A	B
57		o-Xylene	91	15.80	1.075	A	2	A	B
58		Styrene	104	15.83	1.077	A	2	A	B
59		Isopropylbenzene	105	16.40	1.116	A	1	A	B
60	P	Bromoform	173	16.17	1.100	A	2	A	B
61	P	1,1,2,2-Tetrachloroethane	83	17.01	1.157	A	1	A	B
62	S	4-Bromofluorobenzene	95	16.74	1.139	A	2	A	B
63		1,2,3-Trichloropropane	110	17.09	1.162	A	1	A	B
64		n-Propylbenzene	91	17.12	1.164	A	2	A	B

65	Bromobenzene	77	16.98	1.155	A	2	A	B
66	2-Chlorotoluene	91	17.31	1.178	A	2	A	B
67	4-Chlorotoluene	91	17.50	1.191	A	2	A	B
68	1,3,5-Trimethylbenzene	105	17.43	1.186	A	1	A	B
69	tert-Butylbenzene	119	17.96	1.222	A	2	A	B
70	1,2,4-Trimethylbenzene	105	18.08	1.230	A	1	A	B
71	sec-Butylbenzene	105	18.35	1.248	A	2	A	B
72	4-Isopropyltoluene	119	18.60	1.265	A	2	A	B
73	1,3-Dichlorobenzene	146	18.60	1.265	A	2	A	B
74 I	1,4-Dichlorobenzene-d4	152	18.69	1.000	A	2	A	B
75	1,4-Dichlorobenzene	146	18.73	1.002	A	2	A	B
76	n-Butylbenzene	91	19.25	1.030	A	2	A	B
77	1,2-Dichlorobenzene	146	19.37	1.036	A	2	A	B
78	1,2-Dibromo-3-chloropropane	75	20.69	1.107	QO	2	A	B
79	1,2,4-Trichlorobenzene	180	22.08	1.181	A	2	A	B
80	Hexachlorobutadiene	225	22.30	1.193	A	2	A	B
81	Naphthalene	128	22.48	1.203	A	2	A	B
82	1,2,3-Trichlorobenzene	180	22.91	1.226	A	2	A	B
83	Indan	117	18.05	0.966	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

0717WC3.M Mon Jul 30 08:56:06 2018 SS

CALIBRATION VERIFICATION SUMMARY

SW 846 8260C

CCV ID: S8J1704-CCV1 **Analyzed:** 10/10/18 13:33

Analyte	Response Factor	Expected Result	Result		% Drift	Limit(s)
1,1,1-Trichloroethane	0.7373984	200.00	249.17	*	25	20
1,1,2,2-Tetrachloroethane	0.4323567	200.00	186.64		7	0.3 (SPCC)
1,1,2-Trichloro-1,2,2 Trifluoroethane	0.3885111	200.00	163.56		18	20
1,1,2-Trichloroethane	0.1703746	200.00	191.60		4	20
1,1-Dichloroethane	0.8496664	200.00	218.21		9	0.1 (SPCC)
1,1-Dichloroethene	0.7945612	200.00	231.64		16	20 (CCC)
1,2,3-Trichlorobenzene	0.4828518	200.00	221.99		11	20
1,2,4-Trichlorobenzene	0.6295863	200.00	237.27		19	20
1,2,4-Trimethylbenzene	1.864631	200.00	225.19		13	20
1,2-Dibromo-3-chloropropane	9.506023E-02	200.00	236.88		18	20
1,2-Dibromoethane	0.1826416	200.00	206.38		3	20
1,2-Dichlorobenzene	0.9081894	200.00	214.98		7	20
1,2-Dichloroethane	0.6933126	200.00	261.14	*	31	20
1,2-Dichloropropane	0.220676	200.00	192.26		4	20 (CCC)
1,3-Dichlorobenzene	0.919692	200.00	215.86		8	20
1,4-Dichlorobenzene	1.006167	200.00	209.68		5	20
2-Butanone	0.1800639	200.00	176.21		12	20
2-Hexanone	0.1525543	200.00	188.49		6	20
4-Methyl-2-pentanone	0.2146098	200.00	191.62		4	20
Acetone	0.1557066	200.00	237.49		19	20
Benzene	1.516194	200.00	179.91		10	20
Bromochloromethane	0.387115	200.00	202.36		1	20
Bromodichloromethane	0.3697722	200.00	166.53		17	20
Bromoform	0.2964029	200.00	226.45		13	0.1 (SPCC)
Bromomethane	0.2743366	200.00	204.02		2	20
Carbon disulfide	1.218475	200.00	140.08	*	30	20
Carbon Tetrachloride	0.6674893	200.00	250.10	*	25	20
Chlorobenzene	1.142052	200.00	204.01		2	0.3 (SPCC)
Chlorodibromomethane	0.2495352	200.00	160.58		20	20
Chloroethane	0.3086909	200.00	201.40		1	20
Chloroform	0.8609991	200.00	230.37		15	20 (CCC)
Chloromethane	0.3907103	200.00	175.04		12	0.1 (SPCC)
cis-1,2-Dichloroethene	0.8156015	200.00	224.02		12	20
cis-1,3-Dichloropropene	0.3982	200.00	213.87		7	20
Cyclohexane	0.6395256	200.00	162.71		19	20
Dichlorodifluoromethane	0.351371	200.00	233.67		17	20
EthylBenzene	2.102067	200.00	212.34		6	20 (CCC)
Isopropylbenzene	2.044636	200.00	217.18		9	20
m+p-Xylenes	0.729369	400.00	401.78		0	20
Methyl Acetate	0.270541	200.00	179.27		10	20
Methyl tert-Butyl Ether	1.097602	200.00	202.42		1	20
Methylcyclohexane	0.3421712	200.00	170.67		15	20
Methylene Chloride	0.501129	200.00	212.62		6	20
o-Xylene	1.663676	200.00	217.35		9	20
Styrene	1.250545	200.00	208.39		4	20
tert-Butyl alcohol	4.009553E-02	2,000.00	2,094.81		5	20
Tetrachloroethene	0.2408909	200.00	210.03		5	20

F-VII

CALIBRATION VERIFICATION SUMMARY

SW 846 8260C

CCV ID: S8J1704-CCV1 **Analyzed:** 10/10/18 13:33

Analyte	Response Factor	Expected Result	Result	% Drift	Limit(s)
Toluene	0.8913027	200.00	193.11	3	20 (CCC)
trans-1,2-Dichloroethene	0.7078446	200.00	221.55	11	20
trans-1,3-Dichloropropene	0.3795366	200.00	233.29	17	20
Trichloroethene	0.2390769	200.00	208.22	4	20
Trichlorofluoromethane	0.7778794	200.00	188.23	6	20
Vinyl chloride	0.4649842	200.00	212.84	6	20 (CCC)

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V33991.D Vial: 42
Acq On : 10 Oct 2018 13:33 Operator: omd
Sample : SEQ-CCV@200 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 10 16:49 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Tue Oct 09 14:36:22 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.48	168	157222	50.00	ug/kg	0.02
33) 1,4-Difluorobenzene	8.91	114	291493	50.00	ug/kg	0.02
52) Chlorobenzene-d5	14.07	82	151386	50.00	ug/kg	0.02
74) 1,4-Dichlorobenzene-d4	18.06	152	137476	50.00	ug/kg	0.00
System Monitoring Compounds						
26) Dibromofluoromethane	7.36	113	104550	54.67	ug/kg	0.02
Spiked Amount 50.000	Range 59 - 147		Recovery =	109.34%		
43) Toluene-d8	11.54	98	347844	53.06	ug/kg	0.02
Spiked Amount 50.000	Range 66 - 134		Recovery =	106.12%		
62) 4-Bromofluorobenzene	16.11	95	151180	59.27	ug/kg	0.02
Spiked Amount 50.000	Range 64 - 125		Recovery =	118.54%		

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.90	85	220973	233.67	ug/kg	95
3) Chloromethane	2.07	50	245713	175.04	ug/kg	95
4) Acrolein	3.32	56	5637	66.67	ug/kg	75
5) Vinyl Chloride	2.16	62	292423	212.84	ug/kg	93
6) Bromomethane	2.48	94	172527	204.02	ug/kg#	93
7) Chloroethane	2.58	64	194132	201.40	ug/kg	94
8) Trichlorofluoromethane	2.86	101	489199	188.23	ug/kg	99
9) 1,1,2-Trichloro-1,2,2 Trif	3.46	101	244330	163.56	ug/kg	84
10) Acetone	3.50	43	97922m	237.49	ug/kg	
11) 1,1-Dichloroethene	3.44	61	499690	231.64	ug/kg	70
12) tert-Butyl Alcohol	4.23	59	252156	2094.81	ug/kg	87
13) Methyl Acetate	3.89	43	170140	179.27	ug/kg	93
14) Methylene Chloride	4.10	84	315154	212.62	ug/kg	91
15) Carbon Disulfide	3.73	76	766284	140.08	ug/kg	98
16) Acrylonitrile	4.43	53	74733	161.31	ug/kg	92
17) Methyl tert-Butyl Ether	4.49	73	690269	202.42	ug/kg	89
18) trans-1,2-Dichloroethene	4.49	61	445155	221.55	ug/kg	76
19) 1,1-Dichloroethane	5.21	63	534345	218.21	ug/kg	99
21) 2-Butanone	6.33	43	113240	176.21	ug/kg	100
22) 2,2-Dichloropropane	6.35	77	495299	271.51	ug/kg	100
23) cis-1,2-Dichloroethene	6.35	61	512922	224.02	ug/kg	73
24) Chloroform	7.05	83	541472	230.37	ug/kg	99
25) Bromochloromethane	6.81	49	243452	202.36	ug/kg	84
27) Cyclohexane	7.46	56	402190	162.71	ug/kg	97
28) 1,1,1-Trichloroethane	7.34	97	463741	249.17	ug/kg	95
29) 1,1-Dichloropropene	7.67	75	396281	218.49	ug/kg	87
30) Carbon Tetrachloride	7.64	117	419776	250.10	ug/kg	100
31) 1,2-Dichloroethane	8.15	62	436016	261.14	ug/kg	98
32) Benzene	8.03	78	953516	179.91	ug/kg	98
34) Trichloroethene	9.31	130	278757	208.22	ug/kg	91
35) Methylcyclohexane	9.73	83	398962	170.67	ug/kg#	86
36) 1,2-Dichloropropane	9.78	63	257302	192.26	ug/kg	97
37) Bromodichloromethane	10.29	83	431144	166.53	ug/kg	97
39) Dibromomethane	9.93	174	162831	217.70	ug/kg	71
41) 4-Methyl-2-Pentanone	11.38	43	250229	191.62	ug/kg	93
42) cis-1,3-Dichloropropene	11.08	75	464290	213.87	ug/kg	94
44) Toluene	11.66	91	1039234	193.11	ug/kg	97
45) trans-1,3-Dichloropropene	12.11	75	442529	233.29	ug/kg	90
46) 1,1,2-Trichloroethane	12.45	97	198652	191.60	ug/kg	99
47) 2-Hexanone	12.85	43	177874	188.49	ug/kg	91
48) 1,3-Dichloropropane	12.72	76	370880	199.49	ug/kg	100
49) Tetrachloroethene	12.55	166	280872	210.03	ug/kg	98
50) Dibromochloromethane	13.07	129	290951	160.58	ug/kg	100
51) 1,2-Dibromoethane	13.25	107	212955	206.38	ug/kg#	83

(#) = qualifier out of range (m) = manual integration
3V33991.D 0717WC3.M Wed Oct 17 12:06:27 2018 SS Page 1

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10102018\3V33991.D Vial: 42
Acq On : 10 Oct 2018 13:33 Operator: omd
Sample : SEQ-CCV@200 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 10 16:49 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Tue Oct 09 14:36:22 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

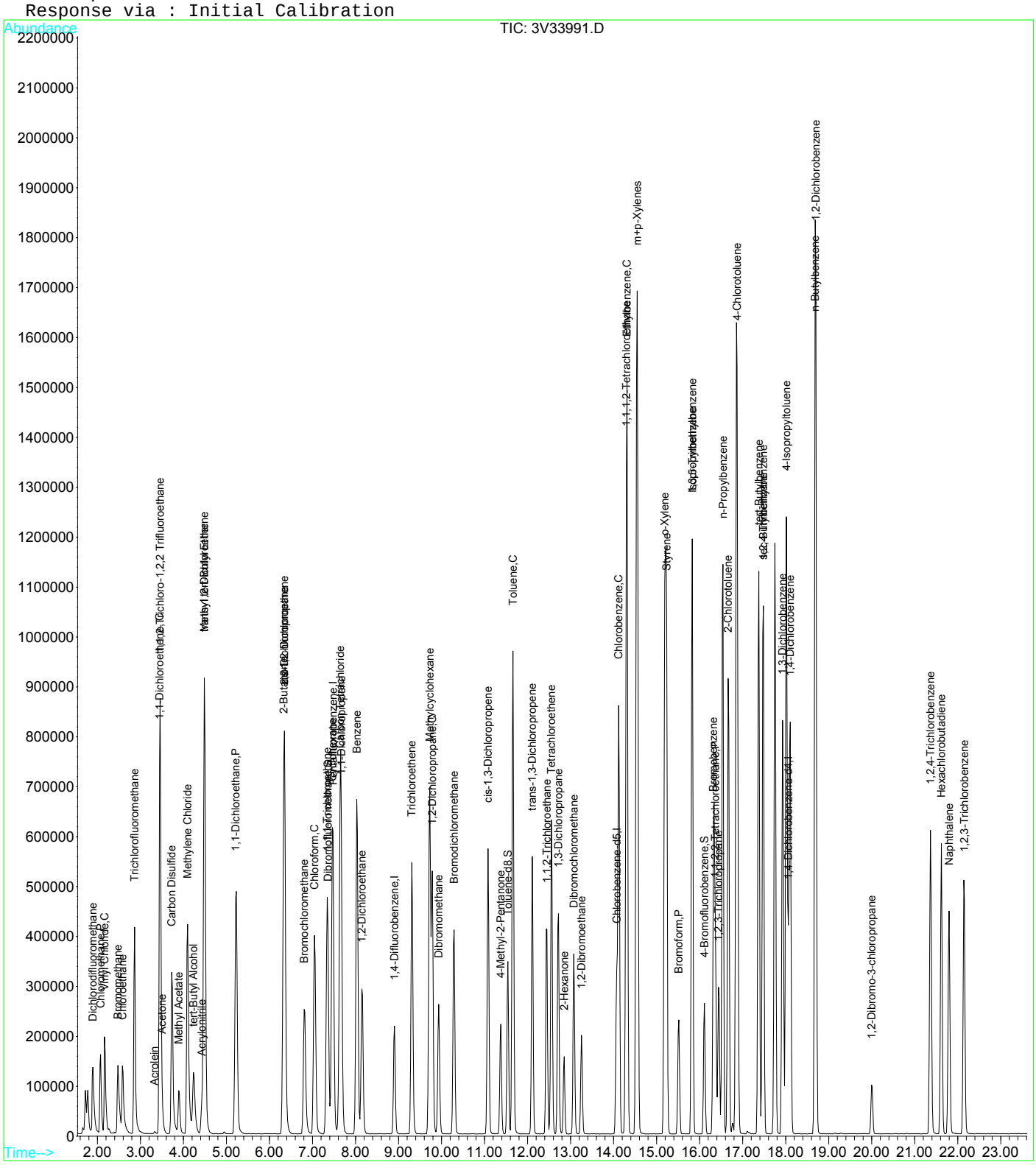
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53)	Chlorobenzene	14.12	112	691563	204.01	ug/kg	98
54)	1,1,1,2-Tetrachloroethane	14.30	131	273915	233.79	ug/kg	99
55)	Ethylbenzene	14.31	91	1272894	212.34	ug/kg	91
56)	m+p-Xylenes	14.55	106	883330	401.78	ug/kg	77
57)	o-Xylene	15.19	91	1007429	217.35	ug/kg	86
58)	Styrene	15.23	104	757260	208.39	ug/kg	89
59)	Isopropylbenzene	15.83	105	1238117	217.18	ug/kg#	90
60)	Bromoform	15.52	173	179485	226.45	ug/kg	99
61)	1,1,2,2-Tetrachloroethane	16.36	83	261811	186.64	ug/kg	96
63)	1,2,3-Trichloropropane	16.44	110	82275	220.57	ug/kg	96
64)	n-Propylbenzene	16.54	91	1509041	205.02	ug/kg#	93
65)	Bromobenzene	16.32	77	484663	210.46	ug/kg	75
66)	2-Chlorotoluene	16.66	91	893241	218.73	ug/kg	85
67)	4-Chlorotoluene	16.87	91	1053181	222.93	ug/kg#	83
68)	1,3,5-Trimethylbenzene	15.83	105	1238117	268.30	ug/kg#	56
69)	tert-Butylbenzene	17.38	119	864652	221.26	ug/kg#	81
70)	1,2,4-Trimethylbenzene	17.48	105	1025368	225.19	ug/kg	90
71)	sec-Butylbenzene	17.48	105	1025368	158.97	ug/kg#	70
72)	4-Isopropyltoluene	18.02	119	1132844	221.76	ug/kg	90
73)	1,3-Dichlorobenzene	17.93	146	556914	215.86	ug/kg#	93
75)	1,4-Dichlorobenzene	18.11	146	553295	209.68	ug/kg#	91
76)	n-Butylbenzene	18.69	91	1123812	215.84	ug/kg	94
77)	1,2-Dichlorobenzene	18.70	146	499417	214.98	ug/kg#	93
78)	1,2-Dibromo-3-chloropropan	20.00	75	52274	236.88	ug/kg	46
79)	1,2,4-Trichlorobenzene	21.37	180	346212	237.27	ug/kg	96
80)	Hexachlorobutadiene	21.62	225	200317	224.69	ug/kg	98
81)	Naphthalene	21.80	128	645900	198.15	ug/kg	98
82)	1,2,3-Trichlorobenzene	22.16	180	292388	221.99	ug/kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10102018\3V33991.D Vial: 42
Acq On : 10 Oct 2018 13:33 Operator: omd
Sample : SEQ-CCV@200 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 10 16:49 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



15 15.8.

CALIBRATION VERIFICATION SUMMARY

SW 846 8260C

CCV ID: S8J1706-CCV1 **Analyzed:** 10/11/18 12:06

Analyte	Response Factor	Expected Result	Result		% Drift	Limit(s)
1,1,1-Trichloroethane	0.7386335	200.00	249.58	*	25	20
1,1,2,2-Tetrachloroethane	0.4083544	200.00	176.28		12	0.3 (SPCC)
1,1,2-Trichloro-1,2,2 Trifluoroethane	0.3855659	200.00	162.32		19	20
1,1,2-Trichloroethane	0.1675339	200.00	188.40		6	20
1,1-Dichloroethane	0.8625258	200.00	221.52		11	0.1 (SPCC)
1,1-Dichloroethene	0.790563	200.00	230.48		15	20 (CCC)
1,2,3-Trichlorobenzene	0.4491346	200.00	215.12		8	20
1,2,4-Trichlorobenzene	0.6022689	200.00	226.98		13	20
1,2,4-Trimethylbenzene	1.827834	200.00	211.88		6	20
1,2-Dibromo-3-chloropropane	9.097148E-02	200.00	227.47		14	20
1,2-Dibromoethane	0.1789234	200.00	202.18		1	20
1,2-Dichlorobenzene	0.8925047	200.00	211.27		6	20
1,2-Dichloroethane	0.6866358	200.00	258.62	*	29	20
1,2-Dichloropropane	0.2236168	200.00	194.82		3	20 (CCC)
1,3-Dichlorobenzene	0.8714575	200.00	204.54		2	20
1,4-Dichlorobenzene	0.9952809	200.00	207.42		4	20
2-Butanone	0.174838	200.00	171.09		14	20
2-Hexanone	0.1469789	200.00	181.60		9	20
4-Methyl-2-pentanone	0.2100835	200.00	187.58		6	20
Acetone	0.1409729	200.00	215.02		8	20
Benzene	1.549129	200.00	183.82		8	20
Bromochloromethane	0.3924546	200.00	205.15		3	20
Bromodichloromethane	0.3659221	200.00	236.47		18	20
Bromoform	0.275435	200.00	210.43		5	0.1 (SPCC)
Bromomethane	0.2825013	200.00	210.10		5	20
Carbon disulfide	1.202848	200.00	138.28	*	31	20
Carbon Tetrachloride	0.6633847	200.00	248.56	*	24	20
Chlorobenzene	1.095323	200.00	195.66		2	0.3 (SPCC)
Chlorodibromomethane	0.242004	200.00	223.20		12	20
Chloroethane	0.3058067	200.00	199.51		0	20
Chloroform	0.8718411	200.00	233.27		17	20 (CCC)
Chloromethane	0.3931683	200.00	176.15		12	0.1 (SPCC)
cis-1,2-Dichloroethene	0.8241116	200.00	226.36		13	20
cis-1,3-Dichloropropene	0.3956789	200.00	212.51		6	20
Cyclohexane	0.6490688	200.00	165.14		17	20
Dichlorodifluoromethane	0.3183648	200.00	211.72		6	20
EthylBenzene	2.010652	200.00	203.11		2	20 (CCC)
Isopropylbenzene	1.959547	200.00	208.14		4	20
m+p-Xylenes	0.7026695	400.00	387.07		3	20
Methyl Acetate	0.2670947	200.00	176.99		12	20
Methyl tert-Butyl Ether	1.089082	200.00	200.85		0	20
Methylcyclohexane	0.3416175	200.00	170.39		15	20
Methylene Chloride	0.4934852	200.00	209.19		5	20
o-Xylene	1.596957	200.00	208.63		4	20
Styrene	1.20811	200.00	201.32		1	20
tert-Butyl alcohol	3.908876E-02	2,000.00	2,041.49		2	20
Tetrachloroethene	0.2411271	200.00	210.23		5	20

F-VII

CALIBRATION VERIFICATION SUMMARY

SW 846 8260C

CCV ID: S8J1706-CCV1 **Analyzed:** 10/11/18 12:06

Analyte	Response Factor	Expected Result	Result		% Drift	Limit(s)
Toluene	0.8995815	200.00	194.91		3	20 (CCC)
trans-1,2-Dichloroethene	0.7171729	200.00	224.47		12	20
trans-1,3-Dichloropropene	0.3788893	200.00	232.89		16	20
Trichloroethene	0.2374675	200.00	206.82		3	20
Trichlorofluoromethane	0.7502296	200.00	260.69	*	30	20
Vinyl chloride	0.4569313	200.00	209.15		5	20 (CCC)

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10112018\3V34017.D Vial: 72
Acq On : 11 Oct 2018 12:06 Operator: omd
Sample : SEQ-CCV@200 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 16:20 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.52	168	161132	50.00	ug/kg	0.06
33) 1,4-Difluorobenzene	8.95	114	302494	50.00	ug/kg	0.06
52) Chlorobenzene-d5	14.10	82	165068	50.00	ug/kg	0.05
74) 1,4-Dichlorobenzene-d4	18.11	152	143883	50.00	ug/kg	0.05
System Monitoring Compounds						
26) Dibromofluoromethane	7.40	113	109643	55.94	ug/kg	0.06
Spiked Amount 50.000	Range 59 - 147		Recovery =	111.88%		
43) Toluene-d8	11.59	98	362129	53.23	ug/kg	0.06
Spiked Amount 50.000	Range 66 - 134		Recovery =	106.46%		
62) 4-Bromofluorobenzene	16.14	95	162426	58.40	ug/kg	0.05
Spiked Amount 50.000	Range 64 - 125		Recovery =	116.80%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.91	85	205195	211.72	ug/kg	95
3) Chloromethane	2.09	50	253408	176.15	ug/kg	96
4) Acrolein	3.37	56	6158	71.06	ug/kg	81
5) Vinyl Chloride	2.19	62	294505	209.15	ug/kg	94
6) Bromomethane	2.51	94	182080	210.10	ug/kg#	94
7) Chloroethane	2.61	64	197101	199.51	ug/kg	95
8) Trichlorofluoromethane	2.89	101	483544	260.69	ug/kg	99
9) 1,1,2-Trichloro-1,2,2 Trif	3.49	101	248508	162.32	ug/kg	80
10) Acetone	3.53	43	90861m	215.02	ug/kg	
11) 1,1-Dichloroethene	3.49	61	509540	230.48	ug/kg	75
12) tert-Butyl Alcohol	4.28	59	251938	2041.49	ug/kg	89
13) Methyl Acetate	3.93	43	172150	176.99	ug/kg	92
14) Methylene Chloride	4.13	84	318065	209.19	ug/kg	83
15) Carbon Disulfide	3.77	76	775269	138.28	ug/kg	99
16) Acrylonitrile	4.47	53	76245	160.56	ug/kg	96
17) Methyl tert-Butyl Ether	4.53	73	701944	200.85	ug/kg	91
18) trans-1,2-Dichloroethene	4.53	61	462238	224.47	ug/kg	76
19) 1,1-Dichloroethane	5.26	63	555922	221.52	ug/kg	99
21) 2-Butanone	6.39	43	112688	171.09	ug/kg	98
22) 2,2-Dichloropropane	6.40	77	509725	272.64	ug/kg	99
23) cis-1,2-Dichloroethene	6.39	61	531163	226.36	ug/kg	73
24) Chloroform	7.10	83	561926	233.27	ug/kg	99
25) Bromochloromethane	6.87	49	252948	205.15	ug/kg	83
27) Cyclohexane	7.52	56	418343	165.14	ug/kg	98
28) 1,1,1-Trichloroethane	7.39	97	476070	249.58	ug/kg	95
29) 1,1-Dichloropropene	7.71	75	410098	220.62	ug/kg	87
30) Carbon Tetrachloride	7.69	117	427570	248.56	ug/kg	100
31) 1,2-Dichloroethane	8.21	62	442556	258.62	ug/kg	98
32) Benzene	8.09	78	998457	183.82	ug/kg	98
34) Trichloroethene	9.35	130	287330	206.82	ug/kg	91
35) Methylcyclohexane	9.77	83	413349	170.39	ug/kg#	87
36) 1,2-Dichloropropane	9.83	63	270571	194.82	ug/kg	97
37) Bromodichloromethane	10.32	83	442757	236.47	ug/kg	98
39) Dibromomethane	9.98	174	162695	209.61	ug/kg	68
41) 4-Methyl-2-Pentanone	11.41	43	254196	187.58	ug/kg	93
42) cis-1,3-Dichloropropene	11.13	75	478762	212.51	ug/kg	95
44) Toluene	11.71	91	1088472	194.91	ug/kg	96
45) trans-1,3-Dichloropropene	12.15	75	458447	232.89	ug/kg	90
46) 1,1,2-Trichloroethane	12.48	97	202712	188.40	ug/kg	98
47) 2-Hexanone	12.88	43	177841	181.60	ug/kg	91
48) 1,3-Dichloropropane	12.75	76	383651	198.86	ug/kg	99
49) Tetrachloroethene	12.60	166	291758	210.23	ug/kg	98
50) Dibromochloromethane	13.12	129	292819	223.20	ug/kg	98
51) 1,2-Dibromoethane	13.30	107	216493	202.18	ug/kg#	85

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : G:\HPCHEM\3\DATA\10112018\3V34017.D Vial: 72
Acq On : 11 Oct 2018 12:06 Operator: omd
Sample : SEQ-CCV@200 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 16:20 2018 Quant Results File: 0717WC3.RES

Quant Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration
DataAcq Meth : VOCRUN1

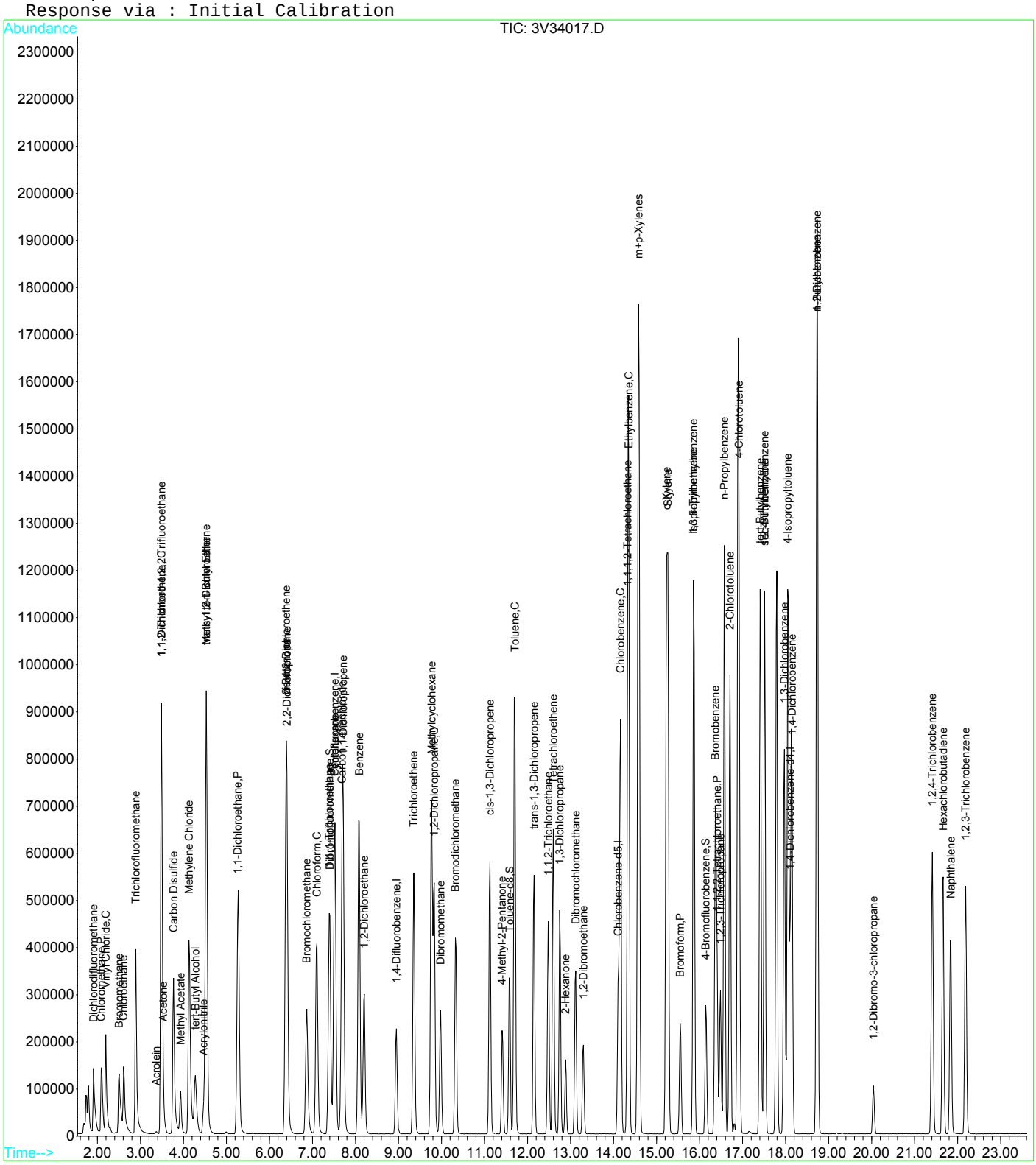
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
53)	Chlorobenzene	14.16	112	723211	195.66	ug/kg	99
54)	1,1,1,2-Tetrachloroethane	14.33	131	283199	221.68	ug/kg	99
55)	Ethylbenzene	14.36	91	1327577	203.11	ug/kg	92
56)	m+p-Xylenes	14.58	106	927906	387.07	ug/kg	75
57)	o-Xylene	15.23	91	1054426	208.63	ug/kg	88
58)	Styrene	15.26	104	797681	201.32	ug/kg	88
59)	Isopropylbenzene	15.86	105	1293834	208.14	ug/kg#	88
60)	Bromoform	15.55	173	181862	210.43	ug/kg	97
61)	1,1,2,2-Tetrachloroethane	16.41	83	269625	176.28	ug/kg	96
63)	1,2,3-Trichloropropane	16.48	110	81877	201.31	ug/kg	94
64)	n-Propylbenzene	16.57	91	1567359	195.29	ug/kg#	91
65)	Bromobenzene	16.37	77	503094	200.36	ug/kg	82
66)	2-Chlorotoluene	16.71	91	922148	207.10	ug/kg	87
67)	4-Chlorotoluene	16.92	91	1092826	212.15	ug/kg	87
68)	1,3,5-Trimethylbenzene	15.86	105	1293834	257.13	ug/kg#	55
69)	tert-Butylbenzene	17.41	119	889991	208.87	ug/kg#	79
70)	1,2,4-Trimethylbenzene	17.51	105	1051977	211.88	ug/kg	89
71)	sec-Butylbenzene	17.51	105	1051977	149.58	ug/kg#	70
72)	4-Isopropyltoluene	18.05	119	1158571	208.00	ug/kg#	88
73)	1,3-Dichlorobenzene	17.97	146	575399	204.54	ug/kg#	94
75)	1,4-Dichlorobenzene	18.15	146	572816	207.42	ug/kg#	92
76)	n-Butylbenzene	18.73	91	1141911	209.55	ug/kg	95
77)	1,2-Dichlorobenzene	18.73	146	513665	211.27	ug/kg#	91
78)	1,2-Dibromo-3-chloropropan	20.04	75	52357	227.47	ug/kg	48
79)	1,2,4-Trichlorobenzene	21.41	180	346625	226.98	ug/kg	95
80)	Hexachlorobutadiene	21.66	225	202071	216.57	ug/kg	96
81)	Naphthalene	21.84	128	643272	188.56	ug/kg	98
82)	1,2,3-Trichlorobenzene	22.19	180	296551	215.12	ug/kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : G:\HPCHEM\3\DATA\10112018\3V34017.D Vial: 72
Acq On : 11 Oct 2018 12:06 Operator: omd
Sample : SEQ-CCV@200 Inst : GCMS-3
Misc : soil Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 11 16:20 2018 Quant Results File: 0717WC3.RES

Method : G:\HPCHEM\3\METHODS\0717WC3.M (RTE Integrator)
Title : VOC's by EPA Method 8260C
Last Update : Wed Oct 10 16:46:14 2018
Response via : Initial Calibration



INTERNAL STANDARD REPORT

Analysis Class: VOLATILES **Analysis Batch:** S8J1704

		PFB		DFB		CHB-D5		DCB-D4					
Lab Number	File ID	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt
B8J1111-BLK1	3V33994.D	145721	7.49	275232	8.91	144968	14.07	125977	18.06				
8100452-01	3V34002.D	150003	7.49	284129	8.92	152189	14.07	132035	18.06				
8100452-02	3V34003.D	147411	7.49	282053	8.92	150180	14.07	126429	18.06				
8100452-05	3V34004.D	153714	7.49	287940	8.92	152713	14.07	134717	18.08				
8100452-06	3V34005.D	121951	7.51	230145	8.92	121749	14.07	109706	18.06				
8100452-07	3V34006.D	140882	7.51	262094	8.92	139480	14.07	114467	18.08				
8100452-11	3V34008.D	147505	7.49	269462	8.92	143908	14.07	125562	18.08				
8100452-12	3V34009.D	137633	7.51	257853	8.92	137391	14.07	119681	18.08				
8100452-14	3V34010.D	149345	7.51	275625	8.92	150050	14.09	131114	18.08				

Reference Std ID
S8J1704-CCV1

	Internal Standard	Ref Area	Area Limit	Ref RT	RT Limit
PFB	Pentafluorobenzene	157222	78,611.00 - 314,444.00	7.48	0.50
DFB	1,4-Difluorobenzene	291493	145,746.50 - 582,986.00	8.91	0.50
CHB-D5	Chlorobenzene-d5	151386	75,693.00 - 302,772.00	14.07	0.50
DCB-D4	1,4-Dichlorobenzene-d4	137476	68,738.00 - 274,952.00	18.06	0.50

* - Outside of QC Limits

F-VIII

INTERNAL STANDARD REPORT

Analysis Class: VOLATILES **Analysis Batch:** S8J1706

		PFB		DFB		CHB-D5		DCB-D4					
Lab Number	File ID	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt	Area	Rt
B8J1141-BLK1	3V34019.D	160008	7.54	297018	8.95	159603	14.12	134115	18.11				
8100452-08	3V34020.D	157363	7.54	288376	8.95	154637	14.1	136983	18.11				

Reference Std ID
S8J1706-CCV1

	Internal Standard	Ref Area	Area Limit	Ref RT	RT Limit
PFB	Pentafluorobenzene	161132	80,566.00 - 322,264.00	7.52	0.50
DFB	1,4-Difluorobenzene	302494	151,247.00 - 604,988.00	8.95	0.50
CHB-D5	Chlorobenzene-d5	165068	82,534.00 - 330,136.00	14.1	0.50
DCB-D4	1,4-Dichlorobenzene-d4	143883	71,941.50 - 287,766.00	18.11	0.50

* - Outside of QC Limits

F-VIII

AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

GENERAL CHEMISTRY

Peak Environmental

Work Order: 8100452

Project: Ridgewood

ANALYSIS DATA SHEET

General Chemistry

Client: Peak Environmental
Project: Ridgewood
Work Order: 8100452

General Chemistry

8100452-01 (Soil) - NTP-1A

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	89.9		1		10/11/18 10:54	Gravimetric
Cyanide	mg/kg dry	ND	0.278	1	U	10/11/18 13:30	SW 846 9014

8100452-02 (Soil) - NTP-2A

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	92.5		1		10/11/18 10:54	Gravimetric

8100452-03 (Soil) - NTP-2B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	92.3		1		10/11/18 10:54	Gravimetric

8100452-04 (Soil) - NTP-3B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	91.3		1		10/11/18 10:54	Gravimetric

8100452-05 (Soil) - NTP-4B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	92.0		1		10/11/18 10:54	Gravimetric

8100452-06 (Soil) - NTP-6

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Cyanide	mg/kg dry	ND	0.285	1	U	10/11/18 13:30	SW 846 9014
Percent Solids	%	87.7		1		10/11/18 10:54	Gravimetric

8100452-07 (Soil) - NTP-7

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	91.4		1		10/11/18 10:54	Gravimetric

8100452-08 (Soil) - STP-1B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	89.6		1		10/11/18 10:54	Gravimetric

8100452-09 (Soil) - STP-2B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	91.5		1		10/11/18 10:54	Gravimetric

8100452-10 (Soil) - STP-3B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	91.5		1		10/11/18 10:54	Gravimetric

8100452-11 (Soil) - STP-4A

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	90.6		1		10/11/18 10:54	Gravimetric

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

General Chemistry (Con't)

8100452-12 (Soil) - STP-4B

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Cyanide	mg/kg dry	ND	0.273	1	U	10/11/18 13:30	SW 846 9014
Percent Solids	%	91.7		1		10/11/18 10:54	Gravimetric

8100452-13 (Soil) - STP-5

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	92.6		1		10/11/18 10:54	Gravimetric

8100452-14 (Soil) - STP-7

Analyte	Units	Conc.	RL	DF	Q	Analyzed	Method
Percent Solids	%	92.9		1		10/11/18 10:54	Gravimetric
Cyanide	mg/kg dry	ND	0.269	1	U	10/11/18 13:30	SW 846 9014

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-I

General Chemistry - Quality Control

Cyanide		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B8J1057			Prepared & Analyzed: 10/10/2018							
B8J1057-MSD1	**Source: 8100324-04**	2.98	0.313	mg/kg dry	3.13	ND	95.0	75-125	0.00	20
B8J1057-BLK1		ND	0.250	mg/kg wet						
B8J1057-MS1	**Source: 8100324-04**	2.98	0.313	mg/kg dry	3.13	ND	95.0	75-125		
B8J1057-DUP1	**Source: 8100324-04**	ND	0.313	mg/kg dry		ND				30
B8J1057-BS1		2.38	0.250	mg/kg wet	2.50		95.0	80-120		

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit
RL - Reporting limit

F-III

APPENDIX C

BERGEN COMMUNITY COLLEGE ANALYTICAL DATA

CONSULTANTS, INC.
4405 South Clinton Avenue
South Plainfield, NJ 07080

Tel: (800) 545-ATUL
(908) 754-8383
Fax: (908) 754-8633

NJ EDA Approved Testing Laboratory • MBE/DBE Certified • NJ DEP Certified
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Soil, Concrete, Masonry, Rebar, Asphalt, Structural Steel, Precast, Piles, Caissons, Fire-proofing, Roofing, Soil Boring, Concrete/Rock Coring, UST Removal, Environmental Testing & Reports

October 8, 2019

Village of Ridgewood
131 North Maple Avenue
Ridgewood, NJ 07450

Attn: Mr. Chris Rutishauser, P.E. CPWM

Re: "Clean Fill" Testing of Soil Sample-TAL/TCL Test
Soil sample marked as # ANS-5326-S1
Bergen Community College

Dear Mr. Rutishauser,

Enclosed, please find a laboratory test report for one composite soil sample prepared from 5-point grab samples on September 27, 2019 for the project referenced above. The primary purpose of the sampling and analytical work was to determine the presence of any hazardous contaminants in the soil.

Sample was analyzed for Target Compound List (TCL), Target Analyte List (TAL), Total Petroleum Hydrocarbon (TPHC- by EPH Method), pH, Chromium Hexavalent & Chromium Trivalent. Test results were reviewed against N.J. D.E.P. Residential, Non-Residential Direct Contact Soil Remediation Standard and Impact to Groundwater soil screening level criteria effective from September 18, 2017.

Contamination was not encountered exceeding NJDEP Residential and Non-Residential Standards in this sample.

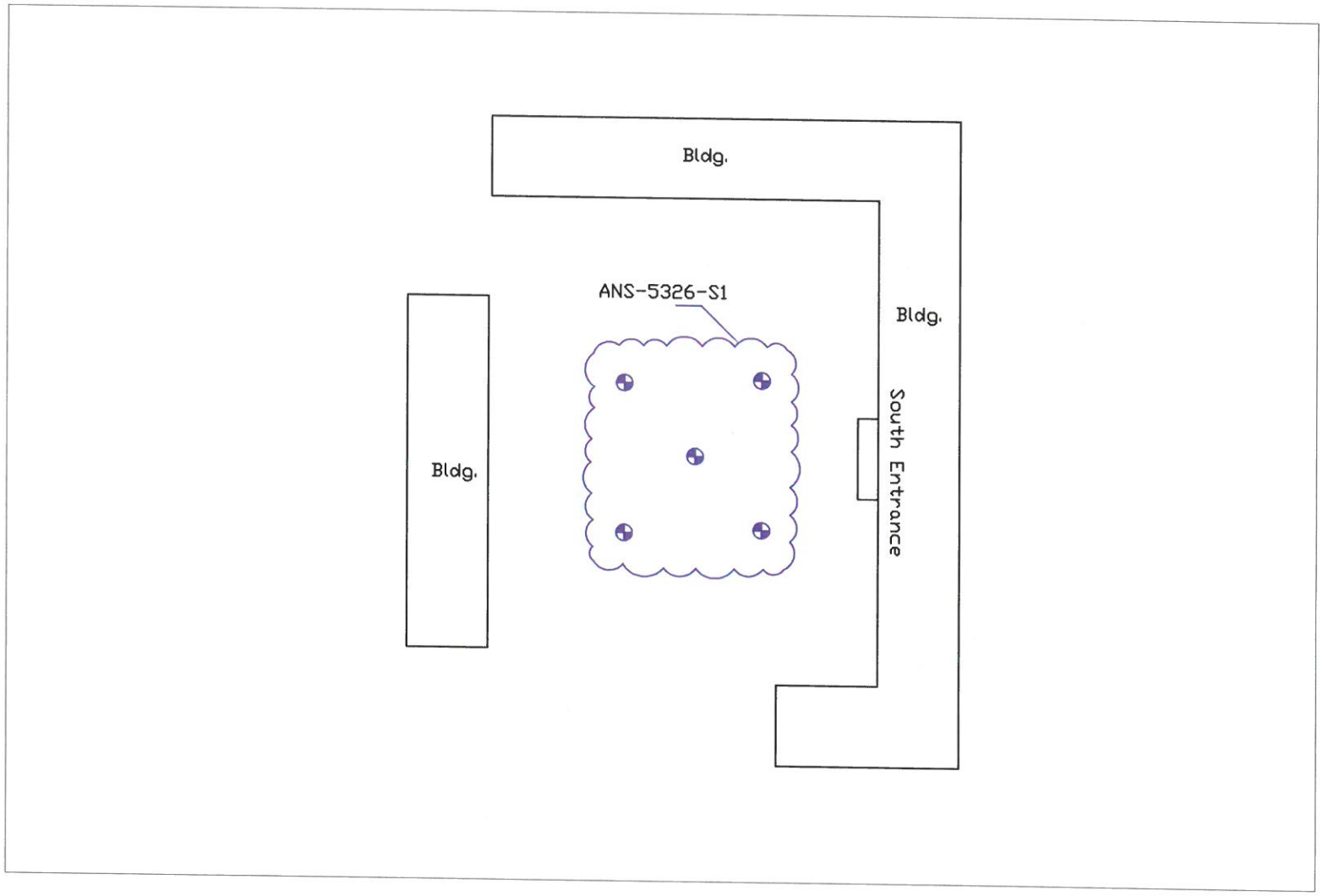
However, Aluminum, Manganese and Mercury exceeded Impact to Groundwater soil screening level criteria; but the Groundwater Quality Standards (GWQS) for Aluminum and Manganese are secondary, that is they are not based on health considerations. Additionally, these elements may be found as background contaminants. Therefore, Department does not require to address IGW pathway for these contaminants unless there is cause to believe that their presence is due to a site discharge.

Should you have any question or require additional information, please do not hesitate to contact the undersigned at (908) 754 - 8383.

Sincerely,
ANS CONSULTANTS, INC.

Atul N Shah, PE, F.ASCE
President
NJ PE License #24GE03443900
ANS/np

File: ANS-5326. TAL-TCL.01



SOIL BORING LOCATION PLAN

SCALE: N.T.S

LEGEND:

Soil Boring Location

CLIENT: Village of Ridgewood	
PROJECT: 131 North Maple Ave, Ridgewood, NJ	
ANS CONSULTANTS INC. 4405 SOUTH CLINTON AVE SO. PLAINFIELD, NJ, O7080	
PHONE: (908) 754 8383 - FAX: (908) 754 8633	
BY: Dharmin Parekh	DATE: 09/27/2019
	Project No: ANS-5326

Client: Village of Ridgewood
Project: Bergen Community College
Date:10/8/2019
File No: ANS-5326

Sample Collected: 9/27/2019

Work Order 9091335		NJDEP Soil Remediation Standards 2017						
Lab: Aqua Pro-Tech Laboratories		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	9091335-01			
Client: ANS Consultants - 131 North Maple Ave, Ridgewood, NY					ANS-5326-S1			
CAS#	Compound				09/27/2019 13:00			
Extractable Petroleum Hydrocarbons Category 2 (mg/kg)					Result	ualifi	MDL	RL
NJDEP-EPH2	Total EPH	NA	NA	NA	**29.3**		10.5	21.1
General Chemistry (mg/kg)					Result	ualifier		RL
18540-29-9	Chromium, Hexavalent	240	20	s spec.	0.423	U		0.423
57-12-5	Cyanide	47	680	20	0.263	U		0.263
General Chemistry (%)					Result	ualifi	MDL	RL
PERSOL	Percent Solids	NA	NA	NA	**94.9**			
General Chemistry (pH Units)					Result	ualifi	MDL	RL
	pH	NA	NA	NA	**7.64**		0.01	0.01
General Chemistry (mV)					Result	ualifier		RL
	Redox Potential	NA	NA	NA	**164**			-1000
PCBs (mg/kg)					Result	ualifi	MDL	RL
12674-11-2	Aroclor-1016	0.2	1	0.2	0.000619	U	0.000619	0.0348
11104-28-2	Aroclor-1221	0.2	1	0.2	0.00107	U	0.00107	0.0348
11141-16-5	Aroclor-1232	0.2	1	0.2	0.000819	U	0.000819	0.0348
53469-21-9	Aroclor-1242	0.2	1	0.2	0.00118	U	0.00118	0.0348
12672-29-6	Aroclor-1248	0.2	1	0.2	0.000815	U	0.000815	0.0348
11097-69-1	Aroclor-1254	0.2	1	0.2	0.00124	U	0.00124	0.0348
11096-82-5	Aroclor-1260	0.2	1	0.2	0.000917	U	0.000917	0.0348
37324-23-5	Aroclor-1262	0.2	1	0.2	0.00134	U	0.00134	0.0348
11100-14-4	Aroclor-1268	0.2	1	0.2	0.000703	U	0.000703	0.0348
1336-36-3	Total PCBs	0.2	1	0.2	0.000619	U	0.000619	0.0348
Pesticides (mg/kg)					Result	ualifi	MDL	RL
72-54-8	4,4'-DDD	3	13	4	0.0181		0.000829	0.00137
72-55-9	4,4'-DDE	2	9	18	0.158	D	0.00969	0.0137
50-29-3	4,4'-DDT [2C]	2	8	11	0.0102		0.000574	0.00137
309-00-2	Aldrin	0.04	0.2	0.2	0.00085	U	0.00085	0.00137
319-84-6	alpha-BHC	0.1	0.5	0.002	0.00053	U	0.00053	0.00137
319-85-7	beta-BHC	0.4	2	0.002	0.00135	U	0.00135	0.00137
57-74-9	Chlordane	0.2	1	0.05	0.00092	U	0.00092	0.00137
319-86-8	delta-BHC	NA	NA	NA	0.00106	U	0.00106	0.00137
60-57-1	Dieldrin	0.04	0.2	0.003	0.000737	U	0.000737	0.00137
959-98-8	Endosulfan I	470	6800	4	0.000948	U	0.000948	0.00137
33213-65-9	Endosulfan II	470	6800	4	0.000745	U	0.000745	0.00137
1031-07-8	Endosulfan sulfate	470	6800	2	0.000745	U	0.000745	0.00137
72-20-8	Endrin	23	340	1	0.000703	U	0.000703	0.00137
7421-93-4	Endrin aldehyde	NA	NA	NA	0.000585	U	0.000585	0.00137
53494-70-5	Endrin ketone	NA	NA	NA	0.000835	U	0.000835	0.00137
58-89-9	gamma-BHC (Lindane)	0.4	2	0.002	0.000626	U	0.000626	0.00137
76-44-8	Heptachlor	0.1	0.7	0.5	0.000801	U	0.000801	0.00137
1024-57-3	Heptachlor Epoxide	0.07	0.3	0.01	0.000856	U	0.000856	0.00137
72-43-5	Methoxychlor	390	5700	160	0.000871	U	0.000871	0.00137
8001-35-2	Toxaphene	0.6	3	0.3	0.0213	U	0.0213	0.0695
Semivolatile Organics - GC/MS (mg/kg)					Result	ualifi	MDL	RL
58-90-2	2,3,4,6-Tetrachlorophenol	NA	NA	NA	0.0216	U	0.0216	0.14
95-95-4	2,4,5-Trichlorophenol	6100	68000	68	0.0191	U	0.0191	0.14
88-06-2	2,4,6-Trichlorophenol	19	74	0.2	0.00878	U	0.00878	0.14
120-83-2	2,4-Dichlorophenol	180	2100	0.2	0.0141	U	0.0141	0.14
105-67-9	2,4-Dimethylphenol	1200	14000	1	0.0138	U	0.0138	0.14
51-28-5	2,4-Dinitrophenol	120	1400	0.3	0.0202	U	0.0202	0.703
121-14-2	2,4-Dinitrotoluene	0.7	3	0.2	0.015	U	0.015	0.14
606-20-2	2,6-Dinitrotoluene	0.7	3	0.2	0.0335	U	0.0335	0.14
91-58-7	2-Chloronaphthalene	NA	NA	NA	0.0161	U	0.0161	0.14
95-57-8	2-Chlorophenol	310	2200	0.8	0.0185	U	0.0185	0.14
91-57-6	2-Methylnaphthalene	230	2400	8	0.0336	U	0.0336	0.211
95-48-7	2-Methylphenol	310	3400	NA	0.0277	U	0.0277	0.14
88-74-4	2-Nitroaniline	39	23000	NA	0.0113	U	0.0113	0.14

Client: Village of Ridgewood
Project: Bergen Community College
Date:10/8/2019
File No: ANS-5326

Sample Collected: 9/27/2019

Work Order 9091335		NJDEP Soil Remediation Standards 2017						
Lab: Aqua Pro-Tech Laboratories		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	9091335-01			
Client: ANS Consultants - 131 North Maple Ave, Ridgewood, NY					ANS-5326-S1			
CAS#	Compound				09/27/2019 13:00			
88-75-5	2-Nitrophenol	NA	NA	NA	0.0156	U	0.0156	0.14
91-94-1	3,3'-Dichlorobenzidine	1	4	0.2	0.0147	U	0.0147	0.14
106-44-5	3+4-Methylphenol	31	340	NA	0.0257	U	0.0257	0.14
99-09-2	3-Nitroaniline	NA	NA	NA	0.026	U	0.026	0.14
534-52-1	4,6-Dinitro-2-methylphenol	6	68	0.3	0.0264	U	0.0264	0.351
101-55-3	4-Bromophenyl-phenyl ether	NA	NA	NA	0.02	U	0.02	0.14
59-50-7	4-Chloro-3-methylphenol	NA	NA	NA	0.0221	U	0.0221	0.14
106-47-8	4-Chloroaniline	NA	NA	NA	0.00491	U	0.00491	0.14
7005-72-3	4-Chlorophenyl phenyl ether	NA	NA	NA	0.00757	U	0.00757	0.14
100-01-6	4-Nitroaniline	NA	NA	NA	0.0702	U	0.0702	0.14
100-02-7	4-Nitrophenol	NA	NA	NA	0.00898	U	0.00898	0.14
83-32-9	Acenaphthene	3400	37000	110	0.008	U	0.008	0.14
208-96-8	Acenaphthylene	NA	300000	NA	0.00488	U	0.00488	0.14
98-86-2	Acetophenone	2	5	3	0.0139	U	0.0139	0.14
120-12-7	Anthracene	17000	30000	2400	0.0203	U	0.0203	0.14
1912-24-9	Atrazine	210	2400	0.2	0.0132	U	0.0132	0.14
100-52-7	Benzaldehyde	6100	68000	NA	0.0431	U	0.0431	0.14
56-55-3	Benzo(a)anthracene	5	17	0.8	0.0141	U	0.0141	0.14
50-32-8	Benzo(a)pyrene	0.5	2	0.2	0.0244	U	0.0244	0.14
205-99-2	Benzo(b)fluoranthene	5	17	2	0.0197	U	0.0197	0.14
191-24-2	Benzo(g,h,i)perylene	380000	30000	NA	0.0114	U	0.0114	0.14
207-08-9	Benzo(k)fluoranthene	45	170	25	0.0161	U	0.0161	0.14
92-52-4	Biphenyl	61	240	140	0.0123	U	0.0123	0.14
111-91-1	bis(2-chloroethoxy)methane	NA	NA	NA	0.0194	U	0.0194	0.14
111-44-4	bis(2-chloroethyl)ether	0.4	2	0.2	0.0154	U	0.0154	0.14
108-60-1	bis(2-chloroisopropyl)ether	23	67	5	0.0505	U	0.0505	0.14
117-81-7	bis(2-ethylhexyl)phthalate	35	140	1200	0.028	U	0.028	0.14
85-68-7	Butylbenzylphthalate	1200	14000	230	0.0127	U	0.0127	0.14
105-60-2	Caprolactam	31000	340000	12	0.0181	U	0.0181	0.14
86-74-8	Carbazole	24	96	NA	0.027	U	0.027	0.351
218-01-9	Chrysene	450	1700	80	0.00961	U	0.00961	0.14
53-70-3	Dibenzo(a,h)anthracene	0.5	2	0.8	0.0139	U	0.0139	0.14
132-64-9	Dibenzofuran	NA	NA	NA	0.00835	U	0.00835	0.14
84-66-2	Diethylphthalate	49000	550000	88	0.0272	U	0.0272	0.14
131-11-3	Dimethylphthalate	NA	NA	NA	0.0087	U	0.0087	0.14
84-74-2	Di-n-butylphthalate	6100	68000	760	0.0573	U	0.0573	0.14
117-84-0	Di-n-octylphthalate	2400	27000	3300	0.0288	U	0.0288	0.14
206-44-0	Fluoranthene	2300	24000	1300	0.0132	U	0.0132	0.14
86-73-7	Fluorene	2300	24000	170	0.0117	U	0.0117	0.14
118-74-1	Hexachlorobenzene	0.3	1	0.2	0.0183	U	0.0183	0.14
87-68-3	Hexachlorobutadiene	6	25	0.9	0.0673	U	0.0673	0.14
77-47-4	Hexachlorocyclopentadiene	45	110	320	0.0585	U	0.0585	0.351
67-72-1	Hexachloroethane	12	48	0.2	0.0154	U	0.0154	0.14
193-39-5	Indeno(1,2,3-cd)pyrene	5	17	7	0.0151	U	0.0151	0.14
78-59-1	Isophorone	510	2000	0.2	0.00919	U	0.00919	0.14
91-20-3	Naphthalene	6	17	25	0.0104	U	0.0104	0.14
98-95-3	Nitrobenzene	5	14	0.2	0.0238	U	0.0238	0.14
621-64-7	n-Nitroso-di-n-propylamine	0.2	0.3	0.2	0.00751	U	0.00751	0.14
86-30-6	n-Nitrosodiphenylamine	99	390	0.4	0.0299	U	0.0299	0.14
87-86-5	Pentachlorophenol	0.9	3	0.3	0.0193	U	0.0193	0.351
85-01-8	Phenanthrene	NA	300000	NA	0.0184	U	0.0184	0.14
108-95-2	Phenol	18000	210000	8	0.0114	U	0.0114	0.14
129-00-0	Pyrene	1700	18000	840	0.0103	U	0.0103	0.14
000123-95-5	Octadecanoic acid, butyl ester				**13.2**	J		
	unknown (01)				**16.5**	J		
	unknown (02)				**0.544**	J		
NA	Tentatively Identified Compounds				**30.2**	J		

Client: Village of Ridgewood
Project: Bergen Community College
Date:10/8/2019
File No: ANS-5326

Sample Collected: 9/27/2019

Work Order 9091335		NJDEP Soil Remediation Standards 2017						
Lab: Aqua Pro-Tech Laboratories		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	9091335-01			
Client: ANS Consultants - 131 North Maple Ave, Ridgewood, NY					ANS-5326-S1			
CAS#	Compound				09/27/2019 13:00			
Total Metals (mg/kg)					Result	ualifier		RL
7429-90-5	Aluminum	78000	NA	6000	**7610**			2.74
7440-36-0	Antimony	31	450	6	1.37	U		1.37
7440-38-2	Arsenic	19	19	19	4.06			0.549
7440-39-3	Barium	16000	59000	2100	51.6			0.549
7440-41-7	Beryllium	16	140	0.7	0.235			0.0274
7440-43-9	Cadmium	78	78	2	0.274	U		0.274
7440-70-2	Calcium	NA	NA	NA	3370			27.4
7440-47-3	Chromium	120000	NA	s spec.	15.0			0.274
7440-48-4	Cobalt	1600	590	90	4.28			0.219
7440-50-8	Copper	3100	45000	11000	12.3			0.274
7439-89-6	Iron	NA	NA	NA	10600			5.49
7439-92-1	Lead	400	800	90	24.1			1.37
7439-95-4	Magnesium	NA	NA	NA	2270			54.9
7439-96-5	Manganese	11000	5900	65	**175**			0.274
7439-97-6	Mercury	23	65	0.1	**0.615**			0.0516
7440-02-0	Nickel	1600	23000	48	8.42			0.137
7440-09-7	Potassium	NA	NA	NA	1350			110
7782-49-2	Selenium	390	5700	11	1.37	U		1.37
7440-22-4	Silver	390	5700	1	0.549	U		0.549
7440-23-5	Sodium	NA	NA	NA	103			54.9
7440-28-0	Thallium	NA	NA	3	1.37	U		1.37
7440-62-2	Vanadium	78	1100	NA	18.0			0.549
7440-66-6	Zinc	23000	110000	930	36.8			0.823
Volatile Organics - GC/MS (mg/kg)					Result	ualifi	MDL	RL
71-55-6	1,1,1-Trichloroethane	160000	NA	0.3	0.00029	U	0.00029	0.00199
79-34-5	1,1,2,2-Tetrachloroethane	1	3	0.007	0.000274	U	0.000274	0.00199
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	NA	NA	NA	0.000851	U	0.000851	0.00199
79-00-5	1,1,2-Trichloroethane	2	6	0.02	0.000335	U	0.000335	0.00199
75-34-3	1,1-Dichloroethane	8	24	0.2	0.00029	U	0.00029	0.00199
75-35-4	1,1-Dichloroethene	11	150	0.008	0.000368	U	0.000368	0.00199
87-61-6	1,2,3-Trichlorobenzene	NA	NA	NA	0.000429	U	0.000429	0.00199
120-82-1	1,2,4-Trichlorobenzene	73	820	0.7	0.00053	U	0.00053	0.00199
95-63-6	1,2,4-Trimethylbenzene	NA	NA	NA	0.000274	U	0.000274	0.00199
96-12-8	1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	0.000485	U	0.000485	0.00497
106-93-4	1,2-Dibromoethane	0.008	0.04	0.005	0.00025	U	0.00025	0.00199
95-50-1	1,2-Dichlorobenzene	5300	59000	17	0.000351	U	0.000351	0.00199
107-06-2	1,2-Dichloroethane	0.9	3	0.005	0.00028	U	0.00028	0.00199
78-87-5	1,2-Dichloropropane	2	5	0.005	0.000326	U	0.000326	0.00199
541-73-1	1,3-Dichlorobenzene	5300	59000	19	0.000146	U	0.000146	0.00199
106-46-7	1,4-Dichlorobenzene	5	13	2	0.000286	U	0.000286	0.00199
78-93-3	2-Butanone	3100	44000	0.9	0.000324	U	0.000324	0.00497
591-78-6	2-Hexanone	NA	NA	NA	0.000186	U	0.000186	0.00199
108-10-1	4-Methyl-2-pentanone	NA	NA	NA	0.000248	U	0.000248	0.00199
67-64-1	Acetone	70000	NA	19	0.000602	U	0.000602	0.00497
71-43-2	Benzene	2	5	0.005	0.000181	U	0.000181	0.00199
74-97-5	Bromochloromethane	NA	NA	NA	0.000367	U	0.000367	0.00199
75-27-4	Bromodichloromethane	1	3	0.005	0.000249	U	0.000249	0.00199
75-25-2	Bromoform	81	280	0.03	0.000349	U	0.000349	0.00199
74-83-9	Bromomethane	25	59	0.04	0.000573	U	0.000573	0.00199
75-15-0	Carbon disulfide	7800	110000	6	0.000285	U	0.000285	0.00199
56-23-5	Carbon Tetrachloride	2	4	0.005	0.000299	U	0.000299	0.00199
108-90-7	Chlorobenzene	510	7400	0.6	0.000288	U	0.000288	0.00199
124-48-1	Chlorodibromomethane	3	8	0.005	0.000244	U	0.000244	0.00199
75-00-3	Chloroethane	220	1100	NA	0.000339	U	0.000339	0.00199
67-66-3	Chloroform	0.6	2	0.4	0.000334	U	0.000334	0.00199
74-87-3	Chloromethane	4	12	NA	0.000765	U	0.000765	0.00199

Client: Village of Ridgewood
Project: Bergen Community College
Date:10/8/2019
File No: ANS-5326

Sample Collected: 9/27/2019

Work Order 9091335		NJDEP Soil Remediation Standards 2017						
Lab: Aqua Pro-Tech Laboratories		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	9091335-01			
Client: ANS Consultants - 131 North Maple Ave, Ridgewood, NY					ANS-5326-S1			
CAS#	Compound				09/27/2019 13:00			
156-59-2	cis-1,2-Dichloroethene	230	560	0.3	0.0000961	U	0.0000961	0.00199
10061-01-5	cis-1,3-Dichloropropene	2	7	0.005	0.000251	U	0.000251	0.00199
110-82-7	Cyclohexane	NA	NA	NA	0.00044	U	0.00044	0.00199
75-71-8	Dichlorodifluoromethane	490	230000	39	0.000671	U	0.000671	0.00199
100-41-4	EthylBenzene	7800	110000	13	0.000269	U	0.000269	0.00199
98-82-8	Isopropylbenzene	NA	NA	NA	0.000312	U	0.000312	0.00199
179601-23-1	m+p-Xylenes	12000	170000	19	0.000502	U	0.000502	0.00398
79-20-9	Methyl Acetate	78000	NA	22	0.000263	U	0.000263	0.00199
1634-04-4	Methyl tert-Butyl Ether	110	320	0.2	0.000336	U	0.000336	0.00199
108-87-2	Methylcyclohexane	NA	NA	NA	0.00032	U	0.00032	0.00199
75-09-2	Methylene Chloride	46	230	0.01	0.000597	U	0.000597	0.00199
95-47-6	o-Xylene	12000	170000	19	0.000255	U	0.000255	0.00199
100-42-5	Styrene	90	260	3	0.000284	U	0.000284	0.00199
75-65-0	tert-Butyl alcohol	1400	11000	0.3	0.00417	U	0.00417	0.0199
127-18-4	Tetrachloroethene	43	1500	0.005	0.000197	U	0.000197	0.00199
108-88-3	Toluene	6300	91000	7	0.00016	U	0.00016	0.00199
1330-20-7	Total Xylenes	12000	170000	19	0.000255	U	0.000255	0.00199
156-60-5	trans-1,2-Dichloroethene	300	720	0.6	0.000269	U	0.000269	0.00199
10061-02-6	trans-1,3-Dichloropropene	2	7	0.005	0.00038	U	0.00038	0.00199
79-01-6	Trichloroethene	3	10	0.01	0.000292	U	0.000292	0.00199
75-69-4	Trichlorofluoromethane	23000	340000	34	0.000229	U	0.000229	0.00199
75-01-4	Vinyl chloride	0.7	2	0.005	0.000378	U	0.000378	0.00199
NA	Tentatively Identified Compounds				0.00	J		

Main Footnotes:

Standards listed are based upon APL's interpretation of the published documents.
APL assumes no liability for the interpretation and/or accuracy of the standards.

Qualifiers:

U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
D - Indicates result is based on a dilution
E - Concentration exceeds highest calibration standard
B - Indicates compound found in associated blank
H - Indicates a Hold Time violation
P - Indicates a Greater than 25% diff. between 2 GC columns.

APL 9091335

CHAIN OF CUSTODY

www.aquaprotechlabs.com

TEL: 973.227.0422
FAX: 973.227.2813

CLIENT: ANS Consultants	SEND REPORT TO:
ADDRESS: 4405 South Clinton Ave. South Plainfield, NJ 07080	ADDRESS: 4405 South Clinton Ave. South Plainfield, NJ 07080
PHONE: 908-754-8383	PHONE: 908-754-8383
E-MAIL: ansgeoinc@yahoo.com Nehapatel@ansconsultants.net	FAX: 908-754-8633
PROJECT NAME: 131 North Maple Ave Ridgewood NY	SEND INVOICE TO: MR. ATUL SHAH, PE
PROJECT MGR: MR. ATUL SHAH, PE	ADDRESS: Same as above
PROJECT or PO #: ANS-5326	SAMPLED BY: Serge

Client: Village of Ridgewood

TURN-AROUND TIME

APL STANDARD 2 weeks
RUSH (choose one below)
- ☐ 24 hr. date & time required
- ☐ 48 hr. date & time required
- ☐ 72 hr. date & time required
- ☒ 1 week

REPORT FORMAT
- X RESULTS ONLY
- NJ DEP REDUCED
- NJ DEP FULL
- STATEFORMS/E2 REPORTING

PWSID#

ELECTRONIC FORMAT
- I X I EMAIL DELIVERY
- I I HAZSITE EDO
- I X I EXCEL

SKP#

Intermediate Reduced Deliverables

CONTAMINATION LEVEL

I HIGH I I MEDIUM I I LOW

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

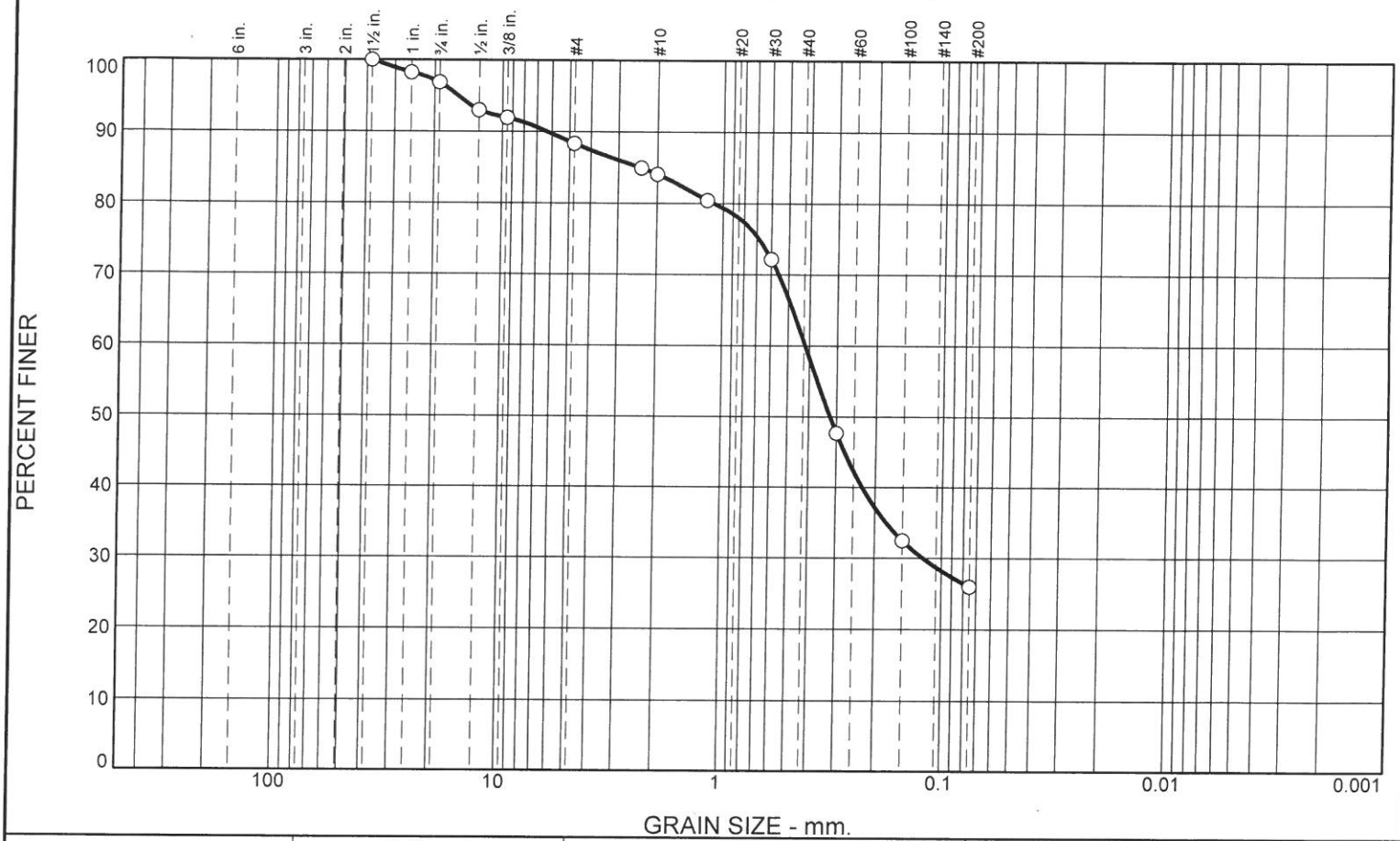
APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type: GRAB	Sample Type: COMPT	Matrix	No. of Bottles	Preservative	Analysis Requested
9091335-01	ANS-5326-S1	09/27/2019	1:00 pm		X	S	2, 8 oz. bottles & 3 Encores		TAL/TCL, pH, EPH, Chromium Hex. and Chromium Tri.

RELINQUISHED BY (Print)	DATE 9-27-19	RECEIVED BY (Print)	
Signature	Time 3:30	Signature	
RELINQUISHED BY (Print)	DATE 9-27-19	RECEIVED BY (Print)	
Signature	Time 6:00	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	
COMMENTS/SPECIAL INSTRUCTIONS		Cooler Temp. upon receipt at lab	4.1

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

Particle Size Distribution Report As per ASTM D 422



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	3.2	8.5	4.2	23.5	34.6	26.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0		
1	98.2		
3/4	96.8		
1/2	93.0		
3/8	91.9		
#4	88.3		
#8	84.9		
#10	84.1		
#16	80.4		
#30	72.2		
#50	47.6		
#100	32.5		
#200	26.0		

* (no specification provided)

Material Description

Brown in color. silty sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 6.3186 D_{85}= 2.3965 D_{60}= 0.4181
D_{50}= 0.3212 D_{30}= 0.1213 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= SM AASHTO= A-2-4(0)

Remarks

Sample was collected by Mr. Sergy on 09/26/19 and tested on 09/30/19. In-Situ %MC=4.5
F.M.=2.05

Source of Sample: On-Site material
Sample Number: S-1

Date: 09/30/2019

ANS CONSULTANTS, INC.

South Plainfield, New Jersey

Client: Village of Ridgewood
Project: 131 North Maple Avenue, Ridgewood, NJ
Project No: ANS-5326

Figure 1 F 1

APPENDIX D

533 WYNDEMERE AVENUE ANALYTICAL DATA

CONSULTANTS, INC.
4405 South Clinton Avenue
South Plainfield, NJ 07080

Tel: (800) 545-ATUL
(908) 754-8383
Fax: (908) 754-8633

NJ EDA Approved Testing Laboratory • MBE/DBE Certified • NJ DEP Certified
www.ANSConsultants.net

May 19, 2021

DJR Renovations LLC
340 Fairway Road
Ridgewood, NJ 07450

Attn: Mr. Don Rick

Re: "Clean Fill" Testing of Soil Sample-TAL/TCL Test
Soil sample marked as # ANS-5727-S1
533 Wyndmere Avenue
Ridgewood, NJ 07450

Dear Mr. Rick,

Enclosed, please find a laboratory test report for one soil sample collected on May 10, 2021 for the project referenced above. Sample ANS-5727-S1 is collected from 8' depth from the testpit. The primary purpose of the sampling and analytical work was to determine the presence of any hazardous contaminants in the soil.

Sample was analyzed for Target Compound List (TCL), Target Analyte List (TAL), Total Petroleum Hydrocarbon (TPHC- by EPH Method), pH, Chromium Hexavalent and Chromium Trivalent. Test results were reviewed against N.J. D.E.P. Residential, Non-Residential Direct Contact Soil Remediation Standard and Impact to Groundwater soil screening level criteria effective from September 18, 2017.

EPH concentration of 117 ppm was noted in this sample. (EPH concentration below fractionation trigger of 1700 ppm).

Contamination was not encountered exceeding NJDEP Residential and Non-Residential Standards in this sample.

However, **Aluminum** and **Manganese** exceeded Impact to Groundwater soil screening level criteria; but the Groundwater Quality Standards (GWQS) for **Aluminum** and **Manganese** are secondary, that is they are not based on health considerations. Additionally, these elements may be found as background contaminants. Therefore, Department does not require to address IGW pathway for these contaminants unless there is cause to believe that their presence is due to a site discharge.

Should you have any question or require additional information, please do not hesitate to contact the undersigned at (908) 754 - 8383.

Sincerely,
ANS CONSULTANTS, INC.

Atul Shah, PE, F.ASCE
President
NJ PE License #24GE03443900
ANS/NP

File: ANS-5727. TAL-TCL.01

Client: DRJ Renovations, LLC
Project: 533 Wyndemere Ave, Ridgewood, NJ
Date:5/19/2021
File No: ANS-5727

Sample Collected: 5/11/2021

Work Order 1050518								
Lab: Aqua Pro-Tech Laboratories								
Client: ANS Consultants - 533 Wyndemere Ave, Ridgewood, NJ		NJDEP Soil Remediation Standards 2017						
		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	1050518-01 ANS-5727-S1 05/11/2021 00:00 Soil			
CAS#	Compound							
Extractable Petroleum Hydrocarbons Category 2 (mg/kg)					Result	Qualifier	MDL	RL
NJDEP-EPH2	Total EPH	NA	NA	NA	**117**		10.5	21
General Chemistry (%)					Result	Qualifier		ZERO
PERSOL	Percent Solids	NA	NA	NA	**95.4**			
General Chemistry (mg/kg)					Result	Qualifier		RL
18540-29-9	Chromium, Hexavalent	240	20	s spec.	0.414	U		0.414
57-12-5	Cyanide	47	680	20	0.267	U		0.267
General Chemistry (mV)					Result	Qualifier		RL
	Redox Potential	NA	NA	NA	**189**			-1000
General Chemistry (pH Units)					Result	Qualifier		RL
	pH	NA	NA	NA	**5.30**			0.0100
PCBs (mg/kg)					Result	Qualifier	MDL	RL
12674-11-2	Aroclor-1016	0.2	1	0.2	0.00464	U	0.00464	0.0346
11104-28-2	Aroclor-1221	0.2	1	0.2	0.00913	U	0.00913	0.0346
11141-16-5	Aroclor-1232	0.2	1	0.2	0.0116	U	0.0116	0.0346
53469-21-9	Aroclor-1242	0.2	1	0.2	0.0068	U	0.0068	0.0346
12672-29-6	Aroclor-1248	0.2	1	0.2	0.00711	U	0.00711	0.0346
11097-69-1	Aroclor-1254	0.2	1	0.2	0.00558	U	0.00558	0.0346
11096-82-5	Aroclor-1260	0.2	1	0.2	0.00433	U	0.00433	0.0346
37324-23-5	Aroclor-1262	0.2	1	0.2	0.00931	U	0.00931	0.0346
11100-14-4	Aroclor-1268	0.2	1	0.2	0.00419	U	0.00419	0.0346
1336-36-3	Total PCBs	0.2	1	0.2	0.00323	U	0.00323	0.0346
Pesticides (mg/kg)					Result	Qualifier	MDL	RL
72-54-8	4,4'-DDD	3	13	4	0.000624	U	0.000624	0.00136
72-55-9	4,4'-DDE	2	9	18	0.000746	U	0.000746	0.00136
50-29-3	4,4'-DDT	2	8	11	0.000963	U	0.000963	0.00136
309-00-2	Aldrin	0.04	0.2	0.2	0.000646	U	0.000646	0.00136
319-84-6	alpha-BHC	0.1	0.5	0.002	0.000406	U	0.000406	0.00136
319-85-7	beta-BHC	0.4	2	0.002	0.000651	U	0.000651	0.00136
57-74-9	Chlordane	0.2	1	0.05	0.000606	U	0.000606	0.00136
319-86-8	delta-BHC	NA	NA	NA	0.000633	U	0.000633	0.00136
60-57-1	Dieldrin	0.04	0.2	0.003	0.000713	U	0.000713	0.00136
959-98-8	Endosulfan I	470	6800	4	0.000644	U	0.000644	0.00136
33213-65-9	Endosulfan II	470	6800	4	0.00062	U	0.00062	0.00136
1031-07-8	Endosulfan sulfate	470	6800	2	0.000513	U	0.000513	0.00136
72-20-8	Endrin	23	340	1	0.000471	U	0.000471	0.00136
7421-93-4	Endrin aldehyde	NA	NA	NA	0.000543	U	0.000543	0.00136
53494-70-5	Endrin ketone	NA	NA	NA	0.00048	U	0.00048	0.00136
58-89-9	gamma-BHC (Lindane)	0.4	2	0.002	0.000432	U	0.000432	0.00136
76-44-8	Heptachlor	0.1	0.7	0.5	0.000365	U	0.000365	0.00136
1024-57-3	Heptachlor Epoxide	0.07	0.3	0.01	0.000688	U	0.000688	0.00136
72-43-5	Methoxychlor	390	5700	160	0.0004	U	0.0004	0.00136
8001-35-2	Toxaphene	0.6	3	0.3	0.0657	U	0.0657	0.0692
Semivolatile Organics - GC/MS (mg/kg)					Result	Qualifier	MDL	RL
122-66-7	1,2-Diphenylhydrazine	0.7	2	0.7	0.0152	U	0.0152	0.139
58-90-2	2,3,4,6-Tetrachlorophenol	NA	NA	NA	0.0215	U	0.0215	0.139
95-95-4	2,4,5-Trichlorophenol	6100	68000	68	0.019	U	0.019	0.139
88-06-2	2,4,6-Trichlorophenol	19	74	0.2	0.00873	U	0.00873	0.139
120-83-2	2,4-Dichlorophenol	180	2100	0.2	0.0141	U	0.0141	0.139
105-67-9	2,4-Dimethylphenol	1200	14000	1	0.0137	U	0.0137	0.139
51-28-5	2,4-Dinitrophenol	120	1400	0.3	0.0201	U	0.0201	0.699
121-14-2	2,4-Dinitrotoluene	0.7	3	0.2	0.0149	U	0.0149	0.139
606-20-2	2,6-Dinitrotoluene	0.7	3	0.2	0.0333	U	0.0333	0.139
91-58-7	2-Chloronaphthalene	NA	NA	NA	0.016	U	0.016	0.139

Client: DRJ Renovations, LLC
Project: 533 Wyndemere Ave, Ridgewood, NJ
Date:5/19/2021
File No: ANS-5727

Sample Collected: 5/11/2021

Work Order 1050518								
Lab: Aqua Pro-Tech Laboratories								
Client: ANS Consultants - 533 Wyndemere Ave, Ridgewood, NJ		NJDEP Soil Remediation Standards 2017						
		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	1050518-01 ANS-5727-S1 05/11/2021 00:00 Soil			
CAS#	Compound							
95-57-8	2-Chlorophenol	310	2200	0.8	0.0185	U	0.0185	0.139
91-57-6	2-Methylnaphthalene	230	2400	8	0.0335	U	0.0335	0.21
95-48-7	2-Methylphenol	310	3400	NA	0.0276	U	0.0276	0.139
88-74-4	2-Nitroaniline	39	23000	NA	0.0112	U	0.0112	0.139
88-75-5	2-Nitrophenol	NA	NA	NA	0.0155	U	0.0155	0.139
91-94-1	3,3'-Dichlorobenzidine	1	4	0.2	0.0147	U	0.0147	0.139
65794-96-9	3+4-Methylphenol	31	340	NA	0.0256	U	0.0256	0.139
99-09-2	3-Nitroaniline	NA	NA	NA	0.0259	U	0.0259	0.139
534-52-1	4,6-Dinitro-2-methylphenol	6	68	0.3	0.0263	U	0.0263	0.349
101-55-3	4-Bromophenyl-phenyl ether	NA	NA	NA	0.0199	U	0.0199	0.139
59-50-7	4-Chloro-3-methylphenol	NA	NA	NA	0.022	U	0.022	0.139
106-47-8	4-Chloroaniline	NA	NA	NA	0.00489	U	0.00489	0.139
7005-72-3	4-Chlorophenyl phenyl ether	NA	NA	NA	0.00754	U	0.00754	0.139
100-01-6	4-Nitroaniline	NA	NA	NA	0.0698	U	0.0698	0.139
100-02-7	4-Nitrophenol	NA	NA	NA	0.00893	U	0.00893	0.139
83-32-9	Acenaphthene	3400	37000	110	0.00796	U	0.00796	0.139
208-96-8	Acenaphthylene	NA	300000	NA	0.00485	U	0.00485	0.139
98-86-2	Acetophenone	2	5	3	0.0138	U	0.0138	0.139
120-12-7	Anthracene	17000	30000	2400	0.0202	U	0.0202	0.139
1912-24-9	Atrazine	210	2400	0.2	0.0131	U	0.0131	0.139
100-52-7	Benzaldehyde	6100	68000	NA	0.0429	U	0.0429	0.139
92-87-5	Benzidine	0.7	0.7	0.7	0.319	U	0.319	0.349
56-55-3	Benzo(a)anthracene	5	17	0.8	0.0141	U	0.0141	0.139
50-32-8	Benzo(a)pyrene	0.5	2	0.2	0.0243	U	0.0243	0.139
205-99-2	Benzo(b)fluoranthene	5	17	2	0.0196	U	0.0196	0.139
191-24-2	Benzo(g,h,i)perylene	380000	30000	NA	0.0113	U	0.0113	0.139
207-08-9	Benzo(k)fluoranthene	45	170	25	0.016	U	0.016	0.139
92-52-4	Biphenyl	61	240	140	0.0123	U	0.0123	0.139
111-91-1	bis(2-chloroethoxy)methane	NA	NA	NA	0.0193	U	0.0193	0.139
111-44-4	bis(2-chloroethyl)ether	0.4	2	0.2	0.0153	U	0.0153	0.139
108-60-1	bis(2-chloroisopropyl)ether	23	67	5	0.0502	U	0.0502	0.139
117-81-7	bis(2-ethylhexyl)phthalate	35	140	1200	0.0279	U	0.0279	0.139
85-68-7	Butylbenzylphthalate	1200	14000	230	0.0127	U	0.0127	0.139
105-60-2	Caprolactam	31000	340000	12	0.018	U	0.018	0.139
86-74-8	Carbazole	24	96	NA	0.0268	U	0.0268	0.349
218-01-9	Chrysene	450	1700	80	0.00956	U	0.00956	0.139
53-70-3	Dibenzo(a,h)anthracene	0.5	2	0.8	0.0138	U	0.0138	0.139
132-64-9	Dibenzofuran	NA	NA	NA	0.00832	U	0.00832	0.139
84-66-2	Diethylphthalate	49000	550000	88	0.0271	U	0.0271	0.139
131-11-3	Dimethylphthalate	NA	NA	NA	0.00866	U	0.00866	0.139
84-74-2	Di-n-butylphthalate	6100	68000	760	0.057	U	0.057	0.139
117-84-0	Di-n-octylphthalate	2400	27000	3300	0.0286	U	0.0286	0.139
206-44-0	Fluoranthene	2300	24000	1300	0.0131	U	0.0131	0.139
86-73-7	Fluorene	2300	24000	170	0.0116	U	0.0116	0.139
118-74-1	Hexachlorobenzene	0.3	1	0.2	0.0182	U	0.0182	0.139
87-68-3	Hexachlorobutadiene	6	25	0.9	0.067	U	0.067	0.139
77-47-4	Hexachlorocyclopentadiene	45	110	320	0.0582	U	0.0582	0.349
67-72-1	Hexachloroethane	12	48	0.2	0.0153	U	0.0153	0.139
193-39-5	Indeno(1,2,3-cd)pyrene	5	17	7	0.015	U	0.015	0.139
78-59-1	Isophorone	510	2000	0.2	0.00914	U	0.00914	0.139
91-20-3	Naphthalene	6	17	25	0.0103	U	0.0103	0.139
98-95-3	Nitrobenzene	5	14	0.2	0.0237	U	0.0237	0.139
62-75-9	n-Nitroso-dimethylamine	0.7	0.7	0.7	0.0497	U	0.0497	0.139
621-64-7	n-Nitroso-di-n-propylamine	0.2	0.3	0.2	0.00748	U	0.00748	0.139

Client: DRJ Renovations, LLC
Project: 533 Wyndemere Ave, Ridgewood, NJ
Date:5/19/2021
File No: ANS-5727

Sample Collected: 5/11/2021

Work Order 1050518								
Lab: Aqua Pro-Tech Laboratories								
Client: ANS Consultants - 533 Wyndemere Ave, Ridgewood, NJ		NJDEP Soil Remediation Standards 2017						
		NJDEP Residential Direct Contact Standard 9/2017	NJDEP Non-Residential Direct Contact Standard 9/2017	NJDEP Impact To Ground Water Standard 11/2013	**1050518-01 ANS-5727-S1 05/11/2021 00:00 Soil**			
CAS#	**Compound**							
86-30-6	n-Nitrosodiphenylamine	99	390	0.4	0.0298	U	0.0298	0.139
87-86-5	Pentachlorophenol	0.9	3	0.3	0.0192	U	0.0192	0.349
85-01-8	Phenanthrene	NA	300000	NA	0.0184	U	0.0184	0.139
108-95-2	Phenol	18000	210000	8	0.0113	U	0.0113	0.139
129-00-0	Pyrene	1700	18000	840	0.0103	U	0.0103	0.139
NA	Tentatively Identified Compounds				0.00	J		
Total Metals (mg/kg)					Result	Qualifier		RL
7429-90-5	Aluminum	78000	NA	6000	**8420**			2.65
7440-36-0	Antimony	31	450	6	1.32	U		1.32
7440-38-2	Arsenic	19	19	19	1.48			1.32
7440-39-3	Barium	16000	59000	2100	34.7			0.530
7440-41-7	Beryllium	16	140	0.7	0.277			0.0265
7440-43-9	Cadmium	78	78	2	0.265	U		0.265
7440-70-2	Calcium	NA	NA	NA	265			26.5
7440-47-3	Chromium	120000	NA	s spec.	7.47			0.265
16065-83-1	Chromium, Trivalent	NA	NA	NA	7.47			0.265
7440-48-4	Cobalt	1600	590	90	3.39			0.212
7440-50-8	Copper	3100	45000	11000	6.75			0.265
7439-89-6	Iron	NA	NA	NA	11400			5.30
7439-92-1	Lead	400	800	90	4.45			1.32
7439-95-4	Magnesium	NA	NA	NA	2200			53.0
7439-96-5	Manganese	11000	5900	65	**239**			0.265
7439-97-6	Mercury	23	65	0.1	0.0485	U		0.0485
7440-02-0	Nickel	1600	23000	48	8.84			0.132
7440-09-7	Potassium	NA	NA	NA	638			106
7782-49-2	Selenium	390	5700	11	1.32	U		1.32
7440-22-4	Silver	390	5700	1	0.53	U		0.530
7440-23-5	Sodium	NA	NA	NA	73.6			53.0
7440-28-0	Thallium	NA	NA	3	1.32	U		1.32
7440-62-2	Vanadium	78	1100	NA	10.8			0.530
7440-66-6	Zinc	23000	110000	930	24.1			0.794
Volatile Organics - GC/MS (mg/kg)					Result	Qualifier	MDL	RL
71-55-6	1,1,1-Trichloroethane	160000	NA	0.3	0.000201	U	0.000201	0.00138
79-34-5	1,1,2,2-Tetrachloroethane	1	3	0.007	0.00019	U	0.00019	0.00138
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	NA	NA	NA	0.000591	U	0.000591	0.00138
79-00-5	1,1,2-Trichloroethane	2	6	0.02	0.000232	U	0.000232	0.00138
75-34-3	1,1-Dichloroethane	8	24	0.2	0.000201	U	0.000201	0.00138
75-35-4	1,1-Dichloroethene	11	150	0.008	0.000255	U	0.000255	0.00138
87-61-6	1,2,3-Trichlorobenzene	NA	NA	NA	0.000298	U	0.000298	0.00138
120-82-1	1,2,4-Trichlorobenzene	73	820	0.7	0.000368	U	0.000368	0.00138
95-63-6	1,2,4-Trimethylbenzene	NA	NA	NA	0.00617		0.00019	0.00138
96-12-8	1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	0.000337	U	0.000337	0.00345
106-93-4	1,2-Dibromoethane	0.008	0.04	0.005	0.000174	U	0.000174	0.00138
95-50-1	1,2-Dichlorobenzene	5300	59000	17	0.000244	U	0.000244	0.00138
107-06-2	1,2-Dichloroethane	0.9	3	0.005	0.000195	U	0.000195	0.00138
78-87-5	1,2-Dichloropropane	2	5	0.005	0.000226	U	0.000226	0.00138
541-73-1	1,3-Dichlorobenzene	5300	59000	19	0.000101	U	0.000101	0.00138
106-46-7	1,4-Dichlorobenzene	5	13	2	0.000199	U	0.000199	0.00138
78-93-3	2-Butanone	3100	44000	0.9	0.000225	U	0.000225	0.00345
591-78-6	2-Hexanone	NA	NA	NA	0.000129	U	0.000129	0.00138
108-10-1	4-Methyl-2-pentanone	NA	NA	NA	0.000172	U	0.000172	0.00138
67-64-1	Acetone	70000	NA	19	0.000418	U	0.000418	0.00345
107-02-8	Acrolein	0.5	1	0.5	0.000745	U	0.000745	0.00138
107-13-1	Acrylonitrile	0.9	3	0.5	0.000322	U	0.000322	0.00138

Client: DRJ Renovations, LLC
Project: 533 Wyndemere Ave, Ridgewood, NJ
Date:5/19/2021
File No: ANS-5727

Sample Collected: 5/11/2021

Work Order 1050518								
Lab: Aqua Pro-Tech Laboratories								
Client: ANS Consultants - 533 Wyndemere Ave, Ridgewood, NJ		NJDEP Soil Remediation Standards 2017						
		NJDEP	NJDEP	NJDEP	**1050518-01**			
		Residential	Non-Residential	Impact To	**ANS-5727-S1**			
		Direct Contact	Direct Contact	Ground Water	**05/11/2021 00:00**			
		Standard	Standard	Standard	**Soil**			
		9/2017	9/2017	11/2013				
CAS#	**Compound**							
71-43-2	Benzene	2	5	0.005	0.000126	U	0.000126	0.00138
74-97-5	Bromochloromethane	NA	NA	NA	0.000255	U	0.000255	0.00138
75-27-4	Bromodichloromethane	1	3	0.005	0.000173	U	0.000173	0.00138
75-25-2	Bromoform	81	280	0.03	0.000242	U	0.000242	0.00138
74-83-9	Bromomethane	25	59	0.04	0.000398	U	0.000398	0.00138
75-15-0	Carbon disulfide	7800	110000	6	0.000198	U	0.000198	0.00138
56-23-5	Carbon Tetrachloride	2	4	0.005	0.000208	U	0.000208	0.00138
108-90-7	Chlorobenzene	510	7400	0.6	0.0002	U	0.0002	0.00138
124-48-1	Chlorodibromomethane	3	8	0.005	0.00017	U	0.00017	0.00138
75-00-3	Chloroethane	220	1100	NA	0.000235	U	0.000235	0.00138
67-66-3	Chloroform	0.6	2	0.4	0.000232	U	0.000232	0.00138
74-87-3	Chloromethane	4	12	NA	0.000531	U	0.000531	0.00138
156-59-2	cis-1,2-Dichloroethene	230	560	0.3	0.0000667	U	0.0000667	0.00138
10061-01-5	cis-1,3-Dichloropropene	2	7	0.005	0.000175	U	0.000175	0.00138
110-82-7	Cyclohexane	NA	NA	NA	0.000306	U	0.000306	0.00138
75-71-8	Dichlorodifluoromethane	490	230000	39	0.000466	U	0.000466	0.00138
100-41-4	EthylBenzene	7800	110000	13	0.00102	J	0.000187	0.00138
98-82-8	Isopropylbenzene	NA	NA	NA	0.000217	U	0.000217	0.00138
179601-23-1	m+p-Xylenes	12000	170000	19	0.00620		0.000348	0.00276
79-20-9	Methyl Acetate	78000	NA	22	0.000183	U	0.000183	0.00138
1634-04-4	Methyl tert-Butyl Ether	110	320	0.2	0.000233	U	0.000233	0.00138
108-87-2	Methylcyclohexane	NA	NA	NA	0.000222	U	0.000222	0.00138
75-09-2	Methylene Chloride	46	230	0.01	0.000415	U	0.000415	0.00138
95-47-6	o-Xylene	12000	170000	19	0.00174		0.000177	0.00138
100-42-5	Styrene	90	260	3	0.000197	U	0.000197	0.00138
75-65-0	tert-Butyl alcohol	1400	11000	0.3	0.0029	U	0.0029	0.0138
127-18-4	Tetrachloroethene	43	1500	0.005	0.000137	U	0.000137	0.00138
108-88-3	Toluene	6300	91000	7	0.000111	U	0.000111	0.00138
1330-20-7	Total Xylenes	12000	170000	19	0.00794		0.000177	0.00138
156-60-5	trans-1,2-Dichloroethene	300	720	0.6	0.000187	U	0.000187	0.00138
10061-02-6	trans-1,3-Dichloropropene	2	7	0.005	0.000264	U	0.000264	0.00138
79-01-6	Trichloroethene	3	10	0.01	0.000203	U	0.000203	0.00138
75-69-4	Trichlorofluoromethane	23000	340000	34	0.000159	U	0.000159	0.00138
75-01-4	Vinyl chloride	0.7	2	0.005	0.000262	U	0.000262	0.00138
NA	Tentatively Identified Compounds				0.00	J		

Main Footnotes:
Standards listed are based upon APL's interpretation of the published documents.
APL assumes no liability for the interpretation and/or accuracy of the standards.

Qualifiers:
U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
D - Indicates result is based on a dilution
E - Concentration exceeds highest calibration standard
B - Indicates compound found in associated blank
H - Indicates a Hold Time violation
P - Indicates a Greater than 25% diff. between 2 GC columns.

APL
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APL 1050518

AQUA PRO-TECH LABORATORIES

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CONTAMINATION LEVEL

[ ] HIGH I [ ] MEDIUM [ ] LOW

CHAIN OF CUSTODY

CLIENT: ANS Consultants	SEND REPORT TO:
ADDRESS: 4405 South Clinton Ave. South Plainfield, NJ 07080	ADDRESS: 4405 South Clinton Ave. South Plainfield, NJ 07080
PHONE: 908-754-8383	PHONE: 908-754-8383
E-MAIL: ansgeoinc@yahoo.com nehapatel@ansconsultants.net	FAX: 908-754-8633
PROJECT NAME: 533 Wyndemere Ave, Ridgewood, NJ	SEND INVOICE TO: MR. ATUL SHAH, PE
PROJECT MGR: MR. ATUL SHAH, PE	ADDRESS: Same as above
PROJECT or PO #: ANS-5727	SAMPLED BY: Sunil Shah

Client: DJR Renovations, LLC.

TURN-AROUND TIME

[ ] APL STANDARD 2 week
[ ] RUSH (choose one below)
- ☐ 24 hr. date & time required
- ☐ 48 hr. date & time required
- ☐ 72 hr. date & time required
- ☒ 1 week

REPORT FORMAT	ELECTRONIC FORMAT
☒ RESULTS ONLY	☒ EMAIL DELIVERY
[ ] NJ DEP REDUCED	[ ] HAZSITE EDO
[ ] NJ DEP FULL	☒ EXCEL
[ ] STATE FORMS/E2 REPORTING	

PWSID# _____ SRP# _____

☒ Intermediate Reduced Deliverables

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type: GRAB	Sample Type: COMPT	Matrix	No. of Bottles	Preservative	Analysis Requested
1050518	ANS-5727-S1	5/10/2021	12:30 PM			S	2 - 8 oz jars, 3 Encores		TAL/TCL, pH, Chromium Hex. And Chromium Tri., EPH, VOCs, SVOC's, Metals, PCBs, Pesticides, Acrolein, Acrylonitrile, Benzidine, 1, 2-Diphenylhydrazine, N-Nitrosodimethylamine

RELINQUISHED BY (Print) Charmaine	DATE 5/11/21	RECEIVED BY (Print) Sunil Maini	
Signature	Time 10:35 AM	Signature	
RELINQUISHED BY (Print) Sunil Maini	DATE 5/11/21	RECEIVED BY (Print)	
Signature	Time 2:22 PM	Signature	
RELINQUISHED BY (Print)	DATE	RECEIVED BY (Print)	
Signature	Time	Signature	
COMMENTS/SPECIAL INSTRUCTIONS		Cooler Temp. upon receipt at lab 4.0	

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07018 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

APPENDIX E

RIDGEWOOD WATER DEBOER AVENUE AND ROUTE 208 ANALYTICAL DATA

Work Order 1080405											
Lab: Aqua Pro-Tech Laboratories											
Client: _One Time Client - Conquest Contracting			NJDEP 2021 Soil Remediation Standards								
		Lab ID:	NJDEP	NJDEP	NJDEP	NJDEP	NJDEP	1080405-01			
		Client ID:	Residential	Residential	Non-Residential	Non-Residential	Migration to	DeBoer & 208 Ramp			
		Date Sampled:	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Ground Water	08/09/2021 11:00			
		Matrix:	SRS	SRS	SRS	SRS	SRS	Soil			
			May 2021	May 2021	May 2021	May 2021	May 2021				
CAS#	Compound	Type						Result	Qualifier	MDL	RL
Volatile Organics - GC/MS (mg/kg)											
71-55-6	1,1,1-Trichloroethane	TRG	160000	NA	NA	NA	0.2	0.000352	U	0.000352	0.00241
79-34-5	1,1,2,2-Tetrachloroethane	TRG	3.5	NA	18	NA	0.0069	0.000332	U	0.000332	0.00241
76-13-1	1,1,2-Trichloro-1,2,2 Trifluoroethane	TRG	NA	NA	NA	NA	NA	0.00103	U	0.00103	0.00241
79-00-5	1,1,2-Trichloroethane	TRG	12	NA	64	NA	0.017	0.000406	U	0.000406	0.00241
75-34-3	1,1-Dichloroethane	TRG	120	NA	640	NA	0.24	0.000352	U	0.000352	0.00241
75-35-4	1,1-Dichloroethene	TRG	11	52	180	240	0.0069	0.000446	U	0.000446	0.00241
87-61-6	1,2,3-Trichlorobenzene	TRG						0.00052	U	0.00052	0.00241
120-82-1	1,2,4-Trichlorobenzene	TRG	780	94	13000	NA	0.52	0.000642	U	0.000642	0.00241
95-63-6	1,2,4-Trimethylbenzene	TRG	780	NA	13000	NA	NA	0.000332	U	0.000332	0.00241
96-12-8	1,2-Dibromo-3-chloropropane	TRG	0.87	0.026	4.5	0.12	0.005	0.000588	U	0.000588	0.00602
106-93-4	1,2-Dibromoethane	TRG	0.35	0.085	1.8	0.41	0.005	0.000304	U	0.000304	0.00241
95-50-1	1,2-Dichlorobenzene	TRG	6700	NA	110000	NA	11	0.000425	U	0.000425	0.00241
107-06-2	1,2-Dichloroethane	TRG	5.8	71	30	320	0.0095	0.00034	U	0.00034	0.00241
78-87-5	1,2-Dichloropropane	TRG	19	5.7	98	27	0.0058	0.000395	U	0.000395	0.00241
541-73-1	1,3-Dichlorobenzene	TRG	6700	NA	110000	NA	11	0.000177	U	0.000177	0.00241
106-46-7	1,4-Dichlorobenzene	TRG	780	NA	13000	NA	1.4	0.000347	U	0.000347	0.00241
78-93-3	2-Butanone	TRG	47000	NA	780000	NA	0.98	0.0398		0.000393	0.00602
591-78-6	2-Hexanone	TRG	390	1000	6500	NA	0.15	0.000225	U	0.000225	0.00241
108-10-1	4-Methyl-2-pentanone	TRG	NA	NA	NA	NA	NA	0.000301	U	0.000301	0.00241
67-64-1	Acetone	TRG	70000	NA	NA	NA	19	0.275		0.00073	0.00602
71-43-2	Benzene	TRG	3	2.2	16	11	0.0094	0.000219	U	0.000219	0.00241
74-97-5	Bromochloromethane	TRG						0.000444	U	0.000444	0.00241
75-27-4	Bromodichloromethane	TRG	11	NA	59	NA	0.005	0.000302	U	0.000302	0.00241
75-25-2	Bromoform	TRG	88	NA	460	NA	0.018	0.000423	U	0.000423	0.00241
74-83-9	Bromomethane	TRG	110	18	1800	82	0.043	0.000695	U	0.000695	0.00241
75-15-0	Carbon disulfide	TRG	NA	NA	NA	NA	3.7	0.000346	U	0.000346	0.00241
56-23-5	Carbon Tetrachloride	TRG	7.6	1.4	40	6.9	0.0075	0.000363	U	0.000363	0.00241
108-90-7	Chlorobenzene	TRG	510	NA	8400	NA	0.64	0.000349	U	0.000349	0.00241
124-48-1	Chlorodibromomethane	TRG	8.3	NA	43	NA	0.005	0.000296	U	0.000296	0.00241
75-00-3	Chloroethane	TRG	NA	NA	NA	NA	NA	0.000411	U	0.000411	0.00241
67-66-3	Chloroform	TRG	780	590	13000	NA	0.33	0.000405	U	0.000405	0.00241
74-87-3	Chloromethane	TRG	NA	270	NA	1200	NA	0.000927	U	0.000927	0.00241
156-59-2	cis-1,2-Dichloroethene	TRG	780	NA	13000	NA	0.35	0.000116	U	0.000116	0.00241
10061-01-5	cis-1,3-Dichloropropene	TRG	7	4.8	36	23	0.0063	0.000305	U	0.000305	0.00241
110-82-7	Cyclohexane	TRG	NA	NA	NA	NA	NA	0.000534	U	0.000534	0.00241
75-71-8	Dichlorodifluoromethane	TRG	16000	NA	260000	NA	38	0.000813	U	0.000813	0.00241
100-41-4	EthylBenzene	TRG	7800	10	130000	48	15	0.000326	U	0.000326	0.00241
98-82-8	Isopropylbenzene	TRG	7800	NA	130000	NA	22	0.000378	U	0.000378	0.00241
179601-23-1	m+p-Xylenes	TRG	12000	NA	190000	NA	19	0.000608	U	0.000608	0.00482
79-20-9	Methyl Acetate	TRG	78000	NA	NA	NA	22	0.000319	U	0.000319	0.00241
1634-04-4	Methyl tert-Butyl Ether	TRG	780	140	13000	650	0.25	0.000407	U	0.000407	0.00241
108-87-2	Methylcyclohexane	TRG						0.000388	U	0.000388	0.00241
75-09-2	Methylene Chloride	TRG	50	1400	260	NA	0.013	0.000724	U	0.000724	0.00241
95-47-6	o-Xylene	TRG	12000	NA	190000	NA	19	0.00031	U	0.00031	0.00241
100-42-5	Styrene	TRG	16000	NA	260000	NA	2.1	0.000344	U	0.000344	0.00241
75-65-0	tert-Butyl alcohol	TRG	1400	NA	23000	NA	0.32	0.00506	U	0.00506	0.0241
127-18-4	Tetrachloroethene	TRG	330	47	1700	NA	0.0086	0.000238	U	0.000238	0.00241
108-88-3	Toluene	TRG	6300	NA	100000	NA	7.8	0.000194	U	0.000194	0.00241
1330-20-7	Total Xylenes	TRG	12000	NA	190000	NA	19	0.00031	U	0.00031	0.00241
156-60-5	trans-1,2-Dichloroethene	TRG	1300	NA	22000	NA	0.56	0.000326	U	0.000326	0.00241
10061-02-6	trans-1,3-Dichloropropene	TRG	7	4.8	36	23	0.0063	0.00046	U	0.00046	0.00241
79-01-6	Trichloroethene	TRG	15	3	79	14	0.0065	0.000354	U	0.000354	0.00241
75-69-4	Trichlorofluoromethane	TRG	23000	NA	390000	NA	29	0.000277	U	0.000277	0.00241
75-01-4	Vinyl chloride	TRG	0.97	1.4	5	6.4	0.0067	0.000458	U	0.000458	0.00241
NA	Tentatively Identified Compounds	TIC Total						0.00	J		

Main Footnotes:

Standards listed are based upon APL's interpretation of the published documents.
APL assumes no liability for the interpretation and/or accuracy of the standards.

Qualifiers:

U - Indicates compound analyzed for but not detected
J - Indicates estimated value for TICs and all results when detected below the RL
D - Indicates result is based on a dilution
E - Concentration exceeds highest calibration standard
B - Indicates compound found in associated blank
H - Indicates a Hold Time violation
P - Indicates a Greater than 25% diff. between 2 GC columns.

Key:

	Reporting Limit exceeds Reg Standard
	Value Exceeded One or More of the Criteria
	Detected in Sample
	E Qualified, may require Dilution

Specific Footnotes:

Work Order 1080405										
Lab: Aqua Pro-Tech Laboratories										
Client: _One Time Client - Conquest Contracting			NJDEP 2021 Soil Remediation Standards							
		Lab ID:	NJDEP	NJDEP	NJDEP	NJDEP	NJDEP	1080405-01		
		Client ID:	Residential	Residential	Non-Residential	Non-Residential	Migration to	DeBoer & 208 Ramp		
		Date Sampled:	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Ground Water	08/09/2021 11:00		
		Matrix:	SRS	SRS	SRS	SRS	SRS	Soil		
			May 2021	May 2021	May 2021	May 2021	May 2021			
CAS#	Compound	Type						Result	Qualifier	RL
Total Metals (mg/kg)										
7429-90-5	Aluminum	TRG	78000	NA	NA	NA	NA	9240		3.32
7440-36-0	Antimony	TRG	31	NA	520	NA	5.4	1.66	U	1.66
7440-38-2	Arsenic	TRG	19	1100	19	5200	19	5.12		1.66
7440-39-3	Barium	TRG	16000	870000	260000	NA	2100	61.5		0.664
7440-41-7	Beryllium	TRG	160	2000	2600	9300	0.7	0.340		0.0332
7440-43-9	Cadmium	TRG	71	2600	1100	12000	1.9	0.332	U	0.332
7440-70-2	Calcium	TRG						3690		33.2
7440-47-3	Chromium	TRG						10.5		0.332
7440-48-4	Cobalt	TRG	23	520	390	2500	90	4.39		0.266
7440-50-8	Copper	TRG	3100	NA	52000	NA	910	27.9		0.332
7439-89-6	Iron	TRG						13500		6.64
7439-92-1	Lead	TRG	400	NA	800	NA	90	66.1		1.66
7439-95-4	Magnesium	TRG						2210		66.4
7439-96-5	Manganese	TRG	1900	87000	31000	400000	NA	183		0.332
7439-97-6	Mercury	TRG	23	520000	390	NA	0.1	0.105		0.0552
7440-02-0	Nickel	TRG	1600	20000	26000	93000	48	8.67		0.166
7440-09-7	Potassium	TRG						405		133
7782-49-2	Selenium	TRG	390	NA	6500	NA	11	1.66	U	1.66
7440-22-4	Silver	TRG	390	NA	6500	NA	0.5	0.199	U	0.199
7440-23-5	Sodium	TRG						1710		66.4
7440-28-0	Thallium	TRG						1.66	U	1.66
7440-62-2	Vanadium	TRG	390	170000	6500	800000	NA	27.7		0.664
7440-66-6	Zinc	TRG	23000	NA	390000	NA	930	56.9		0.997

Main Footnotes:

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APL assumes no liability for the interpretation and/or accuracy of the standards.

Qualifiers:

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E - Concentration exceeds highest calibration standard
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H - Indicates a Hold Time violation
P - Indicates a Greater than 25% diff. between 2 GC columns.

Key:

	Reporting Limit exceeds Reg Standard
	Value Exceeded One or More of the Criteria
	Detected in Sample
	E Qualified, may require Dilution

Specific Footnotes:

Work Order 1080405										
Lab: Aqua Pro-Tech Laboratories										
Client: _One Time Client - Conquest Contracting			NJDEP 2021 Soil Remediation Standards							
		Lab ID:	NJDEP	NJDEP	NJDEP	NJDEP	NJDEP			1080405-01
		Client ID:	Residential	Residential	Non-Residential	Non-Residential	Migration to			DeBoer & 208 Ramp
		Date Sampled:	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Ground Water			08/09/2021 11:00
		Matrix:	SRS	SRS	SRS	SRS	SRS			Soil
			May 2021	May 2021	May 2021	May 2021	May 2021			
CAS#	Compound	Type								
Extractable Petroleum Hydrocarbons Category 2 (mg/kg)								Result	Qualifier	MDL
NJDEP-EPH2	Total EPH	TRG						245		13.5
PCBs (mg/kg)								Result	Qualifier	MDL
12674-11-2	Aroclor-1016	TRG	0.25	NA	1.1	NA	1.6	0.00597	U	0.00597
11104-28-2	Aroclor-1221	TRG	0.25	NA	1.1	NA	1.6	0.0117	U	0.0117
11141-16-5	Aroclor-1232	TRG	0.25	NA	1.1	NA	1.6	0.0149	U	0.0149
53469-21-9	Aroclor-1242	TRG	0.25	NA	1.1	NA	1.6	0.00875	U	0.00875
12672-29-6	Aroclor-1248	TRG	0.25	NA	1.1	NA	1.6	0.00915	U	0.00915
11097-69-1	Aroclor-1254	TRG	0.25	NA	1.1	NA	1.6	0.00718	U	0.00718
11096-82-5	Aroclor-1260	TRG	0.25	NA	1.1	NA	1.6	0.00557	U	0.00557
37324-23-5	Aroclor-1262	TRG	0.25	NA	1.1	NA	1.6	0.012	U	0.012
11100-14-4	Aroclor-1268	TRG	0.25	NA	1.1	NA	1.6	0.00538	U	0.00538
1336-36-3	Total PCBs	TRG	0.25	NA	1.1	NA	1.6	0.00416	U	0.00416
Pesticides (mg/kg)								Result	Qualifier	MDL
72-54-8	4,4'-DDD	TRG	2.3	NA	11	NA	0.47	0.000803	U	0.000803
72-55-9	4,4'-DDE	TRG	2	NA	11	NA	0.47	0.000959	U	0.000959
50-29-3	4,4'-DDT	TRG	1.9	NA	9.5	NA	0.67	0.0112		0.00124
309-00-2	Aldrin	TRG	0.041	NA	0.21	NA	0.13	0.000831	U	0.000831
319-84-6	alpha-BHC	TRG	0.086	NA	0.41	NA	0.0023	0.000522	U	0.000522
319-85-7	beta-BHC	TRG	0.3	NA	1.4	NA	0.0046	0.000838	U	0.000838
57-74-9	Chlordane	TRG	0.27	NA	1.4	NA	1.4	0.00078	U	0.00078
319-86-8	delta-BHC	TRG						0.000815	U	0.000815
60-57-1	Dieldrin	TRG	0.034	NA	0.16	NA	0.024	0.000917	U	0.000917
959-98-8	Endosulfan I	TRG	470	NA	7800	NA	NA	0.000828	U	0.000828
33213-65-9	Endosulfan II	TRG	470	NA	7800	NA	NA	0.000797	U	0.000797
1031-07-8	Endosulfan sulfate	TRG						0.00066	U	0.00066
72-20-8	Endrin	TRG	19	NA	270	NA	1.6	0.000606	U	0.000606
7421-93-4	Endrin aldehyde	TRG						0.000699	U	0.000699
53494-70-5	Endrin ketone	TRG						0.000618	U	0.000618
58-89-9	gamma-BHC (Lindane)	TRG	0.57	NA	2.8	NA	0.0035	0.000556	U	0.000556
76-44-8	Heptachlor	TRG	0.15	NA	0.81	NA	0.083	0.000469	U	0.000469
1024-57-3	Heptachlor Epoxide	TRG	0.076	NA	0.4	NA	0.081	0.000885	U	0.000885
72-43-5	Methoxychlor	TRG	320	NA	4600	NA	NA	0.000514	U	0.000514
8001-35-2	Toxaphene	TRG	0.49	NA	2.3	NA	6.2	0.0845	U	0.0845

Main Footnotes:

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Qualifiers:

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B - Indicates compound found in associated blank
H - Indicates a Hold Time violation
P - Indicates a Greater than 25% diff. between 2 GC columns.

Key:

	Reporting Limit exceeds Reg Standard
	Value Exceeded One or More of the Criteria
	Detected in Sample
	E Qualified, may require Dilution

Specific Footnotes:

Work Order 1080405								
Lab: Aqua Pro-Tech Laboratories								
Client: _One Time Client - Conquest Contracting			NJDEP 2021 Soil Remediation Standards					
		Lab ID:	NJDEP	NJDEP	NJDEP	NJDEP	NJDEP	
		Client ID:	Residential	Residential	Non-Residential	Non-Residential	Migration to	
		Date Sampled:	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Ground Water	
		Matrix:	SRS	SRS	SRS	SRS	SRS	
			May 2021	May 2021	May 2021	May 2021	May 2021	
CAS#	Compound	Type						
Extractable Petroleum Hydrocarbons Category 2 (mg/kg)								RL
NJDEP-EPH2	Total EPH	TRG						27
PCBs (mg/kg)								RL
12674-11-2	Aroclor-1016	TRG	0.25	NA	1.1	NA	1.6	0.0445
11104-28-2	Aroclor-1221	TRG	0.25	NA	1.1	NA	1.6	0.0445
11141-16-5	Aroclor-1232	TRG	0.25	NA	1.1	NA	1.6	0.0445
53469-21-9	Aroclor-1242	TRG	0.25	NA	1.1	NA	1.6	0.0445
12672-29-6	Aroclor-1248	TRG	0.25	NA	1.1	NA	1.6	0.0445
11097-69-1	Aroclor-1254	TRG	0.25	NA	1.1	NA	1.6	0.0445
11096-82-5	Aroclor-1260	TRG	0.25	NA	1.1	NA	1.6	0.0445
37324-23-5	Aroclor-1262	TRG	0.25	NA	1.1	NA	1.6	0.0445
11100-14-4	Aroclor-1268	TRG	0.25	NA	1.1	NA	1.6	0.0445
1336-36-3	Total PCBs	TRG	0.25	NA	1.1	NA	1.6	0.0445
Pesticides (mg/kg)								RL
72-54-8	4,4'-DDD	TRG	2.3	NA	11	NA	0.47	0.00175
72-55-9	4,4'-DDE	TRG	2	NA	11	NA	0.47	0.00175
50-29-3	4,4'-DDT	TRG	1.9	NA	9.5	NA	0.67	0.00175
309-00-2	Aldrin	TRG	0.041	NA	0.21	NA	0.13	0.00175
319-84-6	alpha-BHC	TRG	0.086	NA	0.41	NA	0.0023	0.00175
319-85-7	beta-BHC	TRG	0.3	NA	1.4	NA	0.0046	0.00175
57-74-9	Chlordane	TRG	0.27	NA	1.4	NA	1.4	0.00175
319-86-8	delta-BHC	TRG						0.00175
60-57-1	Dieldrin	TRG	0.034	NA	0.16	NA	0.024	0.00175
959-98-8	Endosulfan I	TRG	470	NA	7800	NA	NA	0.00175
33213-65-9	Endosulfan II	TRG	470	NA	7800	NA	NA	0.00175
1031-07-8	Endosulfan sulfate	TRG						0.00175
72-20-8	Endrin	TRG	19	NA	270	NA	1.6	0.00175
7421-93-4	Endrin aldehyde	TRG						0.00175
53494-70-5	Endrin ketone	TRG						0.00175
58-89-9	gamma-BHC (Lindane)	TRG	0.57	NA	2.8	NA	0.0035	0.00175
76-44-8	Heptachlor	TRG	0.15	NA	0.81	NA	0.083	0.00175
1024-57-3	Heptachlor Epoxide	TRG	0.076	NA	0.4	NA	0.081	0.00175
72-43-5	Methoxychlor	TRG	320	NA	4600	NA	NA	0.00175
8001-35-2	Toxaphene	TRG	0.49	NA	2.3	NA	6.2	0.089

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Key:

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	Detected in Sample
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Specific Footnotes:

Work Order 1080405											
Lab: Aqua Pro-Tech Laboratories											
Client: _One Time Client - Conquest Contracting			NJDEP 2021 Soil Remediation Standards								
		Lab ID:	NJDEP	NJDEP	NJDEP	NJDEP	NJDEP	1080405-01			
		Client ID:	Residential	Residential	Non-Residential	Non-Residential	Migration to	DeBoer & 208 Ramp			
		Date Sampled:	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Ground Water	08/09/2021 11:00			
		Matrix:	SRS	SRS	SRS	SRS	SRS	Soil			
			May 2021	May 2021	May 2021	May 2021	May 2021				
CAS#	Compound	Type						Result	Qualifier	MDL	RL
Semivolatile Organics - GC/MS (mg/kg)											
123-91-1	1,4-Dioxane	TRG	7	45	36	210	0.067	0.0101	U	0.0101	0.0898
58-90-2	2,3,4,6-Tetrachlorophenol	TRG	1900	NA	27000	NA	26	0.0553	U	0.0553	0.359
95-95-4	2,4,5-Trichlorophenol	TRG	6300	NA	91000	NA	68	0.0488	U	0.0488	0.359
88-06-2	2,4,6-Trichlorophenol	TRG	49	NA	230	NA	0.86	0.0225	U	0.0225	0.359
120-83-2	2,4-Dichlorophenol	TRG	190	NA	2700	NA	0.19	0.0362	U	0.0362	0.359
105-67-9	2,4-Dimethylphenol	TRG	1300	NA	18000	NA	2.3	0.0353	U	0.0353	0.359
51-28-5	2,4-Dinitrophenol	TRG	130	NA	1800	NA	0.33	0.0518	U	0.0518	1.8
121-14-2	2,4-Dinitrotoluene	TRG	0.8	NA	3.8	NA	0.27	0.0383	U	0.0383	0.359
606-20-2	2,6-Dinitrotoluene	TRG	0.8	NA	3.8	NA	0.27	0.0858	U	0.0858	0.359
91-58-7	2-Chloronaphthalene	TRG	4800	NA	67000	NA	NA	0.0413	U	0.0413	0.359
95-57-8	2-Chlorophenol	TRG	390	NA	6500	NA	0.76	0.0475	U	0.0475	0.359
91-57-6	2-Methylnaphthalene	TRG	240	NA	3300	NA	3.1	**0.197**	JD	0.0861	0.54
95-48-7	2-Methylphenol	TRG	320	NA	4600	NA	0.77	0.071	U	0.071	0.359
88-74-4	2-Nitroaniline	TRG						0.0289	U	0.0289	0.359
88-75-5	2-Nitrophenol	TRG						0.0399	U	0.0399	0.359
91-94-1	3,3'-Dichlorobenzidine	TRG	1.2	NA	5.7	NA	3.9	0.0378	U	0.0378	0.359
65794-96-9	3+4-Methylphenol	TRG						0.0658	U	0.0658	0.359
99-09-2	3-Nitroaniline	TRG						0.0666	U	0.0666	0.359
534-52-1	4,6-Dinitro-2-methylphenol	TRG						0.0677	U	0.0677	0.898
101-55-3	4-Bromophenyl-phenyl ether	TRG						0.0513	U	0.0513	0.359
59-50-7	4-Chloro-3-methylphenol	TRG						0.0567	U	0.0567	0.359
106-47-8	4-Chloroaniline	TRG	2.7	NA	13	NA	0.23	0.0126	U	0.0126	0.359
7005-72-3	4-Chlorophenyl phenyl ether	TRG						0.0194	U	0.0194	0.359
100-01-6	4-Nitroaniline	TRG	27	NA	130	NA	NA	0.18	U	0.18	0.359
100-02-7	4-Nitrophenol	TRG						0.023	U	0.023	0.359
83-32-9	Acenaphthene	TRG	3600	NA	50000	NA	NA	**0.258**	JD	0.0205	0.359
208-96-8	Acenaphthylene	TRG						**1.44**	D	0.0125	0.359
98-86-2	Acetophenone	TRG	7800	NA	130000	NA	3.6	0.0356	U	0.0356	0.359
120-12-7	Anthracene	TRG	18000	NA	250000	NA	NA	**1.05**	D	0.0521	0.359
1912-24-9	Atrazine	TRG	220	NA	3200	NA	0.33	0.0337	U	0.0337	0.359
100-52-7	Benzaldehyde	TRG	170	NA	910	NA	NA	0.11	U	0.11	0.359
56-55-3	Benzo(a)anthracene	TRG	5.1	78000	23	370000	0.71	**2.60**	D	0.0362	0.359
50-32-8	Benzo(a)pyrene	TRG	0.51	3500	2.3	16000	NA	**0.48**	D	0.0626	0.359
205-99-2	Benzo(b)fluoranthene	TRG	5.1	78000	23	370000	NA	**3.49**	D	0.0504	0.359
191-24-2	Benzo(g,h,i)perylene	TRG						**1.98**	D	0.0291	0.359
207-08-9	Benzo(k)fluoranthene	TRG	51	780000	230	NA	NA	**1.53**	D	0.0413	0.359
92-52-4	Biphenyl	TRG	87	NA	450	NA	NA	0.0316	U	0.0316	0.359
111-91-1	bis(2-chloroethoxy)methane	TRG	190	NA	2700	NA	NA	0.0496	U	0.0496	0.359
111-44-4	bis(2-chloroethyl)ether	TRG	0.63	NA	3.3	NA	0.33	0.0394	U	0.0394	0.359
108-60-1	bis(2-chloroisopropyl)ether	TRG	3100	NA	52000	NA	1.9	0.129	U	0.129	0.359
117-81-7	bis(2-ethylhexyl)phthalate	TRG	39	NA	180	NA	14	0.0718	U	0.0718	0.359
85-68-7	Butylbenzylphthalate	TRG	290	NA	1300	NA	29	0.0326	U	0.0326	0.359
105-60-2	Caprolactam	TRG	32000	290	460000	1300	16	0.0464	U	0.0464	0.359
86-74-8	Carbazole	TRG						**0.207**	JD	0.0691	0.898
218-01-9	Chrysene	TRG	510	NA	2300	NA	NA	**3.62**	D	0.0246	0.359
53-70-3	Dibenzo(a,h)anthracene	TRG	0.51	7800	2.3	37000	NA	**0.49**	D	0.0356	0.359
132-64-9	Dibenzofuran	TRG						**0.0841**	JD	0.0214	0.359
84-66-2	Diethylphthalate	TRG	51000	NA	730000	NA	44	0.0696	U	0.0696	0.359
131-11-3	Dimethylphthalate	TRG						**0.279**	JD	0.0223	0.359
84-74-2	Di-n-butylphthalate	TRG	6300	NA	91000	NA	NA	0.147	U	0.147	0.359
117-84-0	Di-n-octylphthalate	TRG	630	NA	9100	NA	NA	0.0737	U	0.0737	0.359
206-44-0	Fluoranthene	TRG	2400	NA	33000	NA	NA	**5.40**	D	0.0337	0.359
86-73-7	Fluorene	TRG	2400	NA	33000	NA	NA	**0.677**	D	0.0299	0.359
118-74-1	Hexachlorobenzene	TRG	0.43	NA	2.3	NA	0.17	0.0469	U	0.0469	0.359
87-68-3	Hexachlorobutadiene	TRG	8.9	NA	47	NA	0.17	0.172	U	**0.172**	**0.359**
77-47-4	Hexachlorocyclopentadiene	TRG	470	2.7	7800	NA	2.5	0.15	U	0.15	0.898
67-72-1	Hexachloroethane	TRG	17	NA	91	NA	0.17	0.0394	U	0.0394	0.359
193-39-5	Indeno(1,2,3-cd)pyrene	TRG	5.1	78000	23	370000	NA	**1.65**	D	0.0386	0.359
78-59-1	Isophorone	TRG	570	NA	2700	NA	0.23	0.0235	U	0.0235	0.359
91-20-3	Naphthalene	TRG	2500	5.7	34000	27	19	**0.114**	JD	0.0266	0.359
98-95-3	Nitrobenzene	TRG	160	7.5	2600	36	0.17	0.061	U	0.061	0.359
621-64-7	n-Nitroso-di-n-propylamine	TRG	0.17	NA	0.36	NA	0.17	0.0192	U	0.0192	0.359
86-30-6	n-Nitrosodiphenylamine	TRG	110	NA	520	NA	1.1	0.0766	U	0.0766	0.359
87-86-5	Pentachlorophenol	TRG	1	NA	4.4	NA	0.33	0.0494	U	0.0494	0.898
85-01-8	Phenanthrene	TRG						**4.97**	D	0.0472	0.359
108-95-2	Phenol	TRG	19000	39000	270000	NA	21	0.0291	U	0.0291	0.359
129-00-0	Pyrene	TRG	1800	NA	25000	NA	NA	**7.15**	D	0.0264	0.359
000084-65-1	9,10-Anthracenedione	TIC						**0.888**	JD		
000084-54-8	9,10-Anthracenedione, -methyl-isomer	TIC						**0.908**	JD		
010387-13-0	9,10-di(Chloromethyl)anthracene	TIC						**0.896**	JD		
000781-92-0	Anthracene, -dimethyl-isomer	TIC						**2.67**	JD		
000613-12-7	Anthracene, -methyl-isomer (01)	TIC						**2.30**	JD		
000613-12-7	Anthracene, -methyl-isomer (02)	TIC						**2.56**	JD		
000192-97-2	Benzo[e]pyrene	TIC						**2.04**	JD		
003351-28-8	Chrysene, -methyl-isomer	TIC						**0.925**	JD		
000112-95-8	Eicosane	TIC						**1.95**	JD		

Work Order 1080405											
Lab: Aqua Pro-Tech Laboratories											
Client: _One Time Client - Conquest Contracting			NJDEP 2021 Soil Remediation Standards								
		Lab ID:	NJDEP	NJDEP	NJDEP	NJDEP	NJDEP	1080405-01			
		Client ID:	Residential	Residential	Non-Residential	Non-Residential	Migration to	DeBoer & 208 Ramp			
		Date Sampled:	Ingestion-Dermal	Inhalation	Ingestion-Dermal	Inhalation	Ground Water	08/09/2021 11:00			
		Matrix:	SRS	SRS	SRS	SRS	SRS	Soil			
			May 2021	May 2021	May 2021	May 2021	May 2021				
CAS#	Compound	Type									
000883-20-5	Phenanthrene, -methyl-isomer	TIC						**3.16**	JD		
003353-12-6	Pyrene, -methyl-isomer (01)	TIC						**1.45**	JD		
003442-78-2	Pyrene, -methyl-isomer (02)	TIC						**1.03**	JD		
003442-78-2	Pyrene, -methyl-isomer (03)	TIC						**0.851**	JD		
002381-21-7	Pyrene, -methyl-isomer (04)	TIC						**1.04**	JD		
	unknown	TIC						**0.898**	JD		
NA	Tentatively Identified Compounds	TIC Total						**23.6**	J		

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	Detected in Sample
	E Qualified, may require Dilution

Specific Footnotes:

APPENDIX F

WATER MAIN REPLACEMENT – JEFFERSON, WILLIAM, AND SLEM STREETS ANALYTICAL DATA

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

ACCREDITED IN ACCORDANCE WITH nelac

ANALYTICAL RESULTS

STANDARD DELIVERABLES FORMAT

APL WORK ORDER NUMBER: 0090585

Project: Water Main Replacement Jefferson & Salem

Brian Wood
Laboratory Director

All Results meet the requirements of the National Environmental Laboratory Accreditation Conference and/or State specific certifications as applicable.

Report Date: Sep 22, 2020

1275 Bloomfield Ave., Bldg. 6, Fairfield, New Jersey 07004
(t) 973.227.0422 (f) 973.227.2813 (w) www.aquaprotechlabs.com

NELAC National Environmental Laboratory Accreditation Conference
NJDEP #07010 / NYDOH #11634

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AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-01 (Soil)

Williams St

Collected	Received	Contact
09/14/2020 08:50	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Chromium, Hexavalent	SW 846 7196A	09/16/20 07:40	09/16/20 09:30	ND	U		0.445	mg/kg dry
Cyanide	SW 846 9014	09/15/20 13:13	09/16/20 15:25	ND	U		0.275	mg/kg dry
Percent Solids	**Gravimetric**	09/14/20 17:55	09/15/20 10:40	**91.1**				%
pH	**SW 846 9045D**	09/21/20 15:50	09/21/20 15:50	**7.13**			**0.0100**	pH Units
Redox Potential	**SM 2580 (mod)**	09/21/20 13:35	09/21/20 13:55	**184**			**-1000**	mV
Total Metals								
Aluminum	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**7160**			**2.73**	mg/kg dry
Antimony	SW 846 6010D	09/16/20 06:38	09/18/20 11:46	ND	U		1.37	mg/kg dry
Arsenic	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**2.46**			**1.37**	mg/kg dry
Barium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**33.1**			**0.546**	mg/kg dry
Beryllium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**0.309**			**0.0273**	mg/kg dry
Cadmium	SW 846 6010D	09/16/20 06:38	09/18/20 11:46	ND	U		0.273	mg/kg dry
Calcium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**899**			**27.3**	mg/kg dry
Chromium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**8.91**			**0.273**	mg/kg dry
Cobalt	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**4.18**			**0.219**	mg/kg dry
Copper	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**9.70**			**0.273**	mg/kg dry
Iron	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**11100**	**B**		**5.46**	mg/kg dry
Lead	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**4.15**			**1.37**	mg/kg dry
Magnesium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**1760**			**54.6**	mg/kg dry
Manganese	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**391**			**0.273**	mg/kg dry
Mercury	SW 846 7471B	09/16/20 07:00	09/16/20 14:34	ND	U		0.0527	mg/kg dry
Nickel	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**8.71**			**0.137**	mg/kg dry
Potassium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**713**			**109**	mg/kg dry
Selenium	SW 846 6010D	09/16/20 06:38	09/18/20 11:46	ND	U		1.37	mg/kg dry
Silver	SW 846 6010D	09/16/20 06:38	09/18/20 11:46	ND	U		0.546	mg/kg dry
Sodium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**135**			**54.6**	mg/kg dry
Thallium	SW 846 6010D	09/16/20 06:38	09/18/20 11:46	ND	U		1.37	mg/kg dry
Vanadium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**12.0**			**0.546**	mg/kg dry
Zinc	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:46	**24.0**			**0.820**	mg/kg dry
EPH Category 2 Extractable Petroleum Hydrocarbons Category 2								
Total EPH	**NJDEP-EPH-CAT2**	09/16/20 15:55	09/21/20 11:45	**36.4**		**11.0**	**22.0**	mg/kg dry
BNA+25 Semivolatile Organics - GC/MS								

FootNotes

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P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

Analytical Results Summary

Conquest Contracting Engineers

0090585-01 (Soil)

Williams St

Collected	Received	Contact
09/14/2020 08:50	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
BNA+25 Semivolatile Organics - GC/MS								
2,3,4,6-Tetrachlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0225	0.146	mg/kg dry
2,4,5-Trichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0199	0.146	mg/kg dry
2,4,6-Trichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00915	0.146	mg/kg dry
2,4-Dichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0147	0.146	mg/kg dry
2,4-Dimethylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0144	0.146	mg/kg dry
2,4-Dinitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0211	0.732	mg/kg dry
2,4-Dinitrotoluene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0156	0.146	mg/kg dry
2,6-Dinitrotoluene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0349	0.146	mg/kg dry
2-Chloronaphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0168	0.146	mg/kg dry
2-Chlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0193	0.146	mg/kg dry
2-Methylnaphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0350	0.220	mg/kg dry
2-Methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0289	0.146	mg/kg dry
2-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0118	0.146	mg/kg dry
2-Nitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0163	0.146	mg/kg dry
3,3'-Dichlorobenzidine	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0154	0.146	mg/kg dry
3+4-Methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0268	0.146	mg/kg dry
3-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0271	0.146	mg/kg dry
4,6-Dinitro-2-methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0276	0.366	mg/kg dry
4-Bromophenyl-phenyl ether	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0209	0.146	mg/kg dry
4-Chloro-3-methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0231	0.146	mg/kg dry
4-Chloroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00512	0.146	mg/kg dry
4-Chlorophenyl phenyl ether	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00790	0.146	mg/kg dry
4-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0731	0.146	mg/kg dry
4-Nitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00936	0.146	mg/kg dry
Acenaphthene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00833	0.146	mg/kg dry
Acenaphthylene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00508	0.146	mg/kg dry
Acetophenone	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0145	0.146	mg/kg dry
Anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0212	0.146	mg/kg dry
Atrazine	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0137	0.146	mg/kg dry
Benzaldehyde	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0449	0.146	mg/kg dry
Benzo(a)anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0147	0.146	mg/kg dry
Benzo(a)pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0255	0.146	mg/kg dry
Benzo(b)fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0205	0.146	mg/kg dry
Benzo(g,h,i)perylene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0119	0.146	mg/kg dry
Benzo(k)fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0168	0.146	mg/kg dry
Biphenyl	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0128	0.146	mg/kg dry

FootNotes

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Analytical Results Summary

Conquest Contracting Engineers

0090585-01 (Soil)

Williams St

Collected	Received	Contact
09/14/2020 08:50	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
BNA+25 Semivolatile Organics - GC/MS								
bis(2-chloroethoxy)methane	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0202	0.146	mg/kg dry
bis(2-chloroethyl)ether	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0160	0.146	mg/kg dry
bis(2-chloroisopropyl)ether	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0526	0.146	mg/kg dry
bis(2-ethylhexyl)phthalate	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0292	0.146	mg/kg dry
Butylbenzylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0133	0.146	mg/kg dry
Caprolactam	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0189	0.146	mg/kg dry
Carbazole	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0281	0.366	mg/kg dry
Chrysene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0100	0.146	mg/kg dry
Dibenzo(a,h)anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0145	0.146	mg/kg dry
Dibenzofuran	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00871	0.146	mg/kg dry
Diethylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0283	0.146	mg/kg dry
Dimethylphthalate	**SW 846 8270D**	09/17/20 08:04	09/18/20 21:48	**0.0869**	**J**	**0.00907**	**0.146**	mg/kg dry
Di-n-butylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0597	0.146	mg/kg dry
Di-n-octylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0300	0.146	mg/kg dry
Fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0137	0.146	mg/kg dry
Fluorene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0122	0.146	mg/kg dry
Hexachlorobenzene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0191	0.146	mg/kg dry
Hexachlorobutadiene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0702	0.146	mg/kg dry
Hexachlorocyclopentadiene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0609	0.366	mg/kg dry
Hexachloroethane	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0160	0.146	mg/kg dry
Indeno(1,2,3-cd)pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0157	0.146	mg/kg dry
Isophorone	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00958	0.146	mg/kg dry
Naphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0108	0.146	mg/kg dry
Nitrobenzene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0248	0.146	mg/kg dry
n-Nitroso-di-n-propylamine	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.00783	0.146	mg/kg dry
n-Nitrosodiphenylamine	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0312	0.146	mg/kg dry
Pentachlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0201	0.366	mg/kg dry
Phenanthrene	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0192	0.146	mg/kg dry
Phenol	SW 846 8270D	09/17/20 08:04	09/18/20 21:48	ND	U	0.0119	0.146	mg/kg dry
Pyrene	**SW 846 8270D**	09/17/20 08:04	09/18/20 21:48	**0.0408**	**J**	**0.0108**	**0.146**	mg/kg dry
Pesticides								
4,4'-DDD	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000653	0.00143	mg/kg dry
4,4'-DDE	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000781	0.00143	mg/kg dry
4,4'-DDT	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.00101	0.00143	mg/kg dry
Aldrin	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000676	0.00143	mg/kg dry

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APL
AQUA PRO-TECH LABORATORIES
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Analytical Results Summary

Conquest Contracting Engineers

0090585-01 (Soil)

Williams St

Collected	Received	Contact
09/14/2020 08:50	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
Pesticides								
alpha-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000425	0.00143	mg/kg dry
beta-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000682	0.00143	mg/kg dry
Chlordane	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000635	0.00143	mg/kg dry
delta-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000663	0.00143	mg/kg dry
Dieldrin	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000747	0.00143	mg/kg dry
Endosulfan I	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000674	0.00143	mg/kg dry
Endosulfan II	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000649	0.00143	mg/kg dry
Endosulfan sulfate	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000537	0.00143	mg/kg dry
Endrin	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000493	0.00143	mg/kg dry
Endrin aldehyde	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000569	0.00143	mg/kg dry
Endrin ketone	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000503	0.00143	mg/kg dry
gamma-BHC (Lindane)	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000452	0.00143	mg/kg dry
Heptachlor	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000382	0.00143	mg/kg dry
Heptachlor Epoxide	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000720	0.00143	mg/kg dry
Methoxychlor	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.000418	0.00143	mg/kg dry
Toxaphene	SW 846 8081B	09/17/20 08:10	09/18/20 15:53	ND	U	0.0688	0.0725	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00486	0.0362	mg/kg dry
Aroclor-1221	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00956	0.0362	mg/kg dry
Aroclor-1232	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.0122	0.0362	mg/kg dry
Aroclor-1242	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00712	0.0362	mg/kg dry
Aroclor-1248	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00745	0.0362	mg/kg dry
Aroclor-1254	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00585	0.0362	mg/kg dry
Aroclor-1260	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00454	0.0362	mg/kg dry
Aroclor-1262	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00975	0.0362	mg/kg dry
Aroclor-1268	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00438	0.0362	mg/kg dry
Total PCBs	SW 846 8082A	09/17/20 08:07	09/17/20 16:44	ND	U	0.00338	0.0362	mg/kg dry
VO+15 Volatile Organics - GC/MS								
1,1,1-Trichloroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000321	0.00220	mg/kg dry
1,1,2,2-Tetrachloroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000303	0.00220	mg/kg dry
1,1,2-Trichloro-1,2,2 Trifluoroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000940	0.00220	mg/kg dry
1,1,2-Trichloroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000370	0.00220	mg/kg dry
1,1-Dichloroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000321	0.00220	mg/kg dry

FootNotes

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Analytical Results Summary

Conquest Contracting Engineers

0090585-01 (Soil)

Williams St

Collected	Received	Contact
09/14/2020 08:50	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
VO+15 Volatile Organics - GC/MS								
1,1-Dichloroethene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000406	0.00220	mg/kg dry
1,2,3-Trichlorobenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000474	0.00220	mg/kg dry
1,2,4-Trichlorobenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000585	0.00220	mg/kg dry
1,2,4-Trimethylbenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000303	0.00220	mg/kg dry
1,2-Dibromo-3-chloropropane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000536	0.00549	mg/kg dry
1,2-Dibromoethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000277	0.00220	mg/kg dry
1,2-Dichlorobenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000388	0.00220	mg/kg dry
1,2-Dichloroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000310	0.00220	mg/kg dry
1,2-Dichloropropane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000360	0.00220	mg/kg dry
1,3-Dichlorobenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000161	0.00220	mg/kg dry
1,4-Dichlorobenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000316	0.00220	mg/kg dry
2-Butanone	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000358	0.00549	mg/kg dry
2-Hexanone	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000205	0.00220	mg/kg dry
4-Methyl-2-pentanone	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000275	0.00220	mg/kg dry
Acetone	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000665	0.00549	mg/kg dry
Benzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000200	0.00220	mg/kg dry
Bromochloromethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000405	0.00220	mg/kg dry
Bromodichloromethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000276	0.00220	mg/kg dry
Bromoform	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000385	0.00220	mg/kg dry
Bromomethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000634	0.00220	mg/kg dry
Carbon disulfide	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000315	0.00220	mg/kg dry
Carbon Tetrachloride	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000331	0.00220	mg/kg dry
Chlorobenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000318	0.00220	mg/kg dry
Chlorodibromomethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000270	0.00220	mg/kg dry
Chloroethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000374	0.00220	mg/kg dry
Chloroform	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000369	0.00220	mg/kg dry
Chloromethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000846	0.00220	mg/kg dry
cis-1,2-Dichloroethene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000106	0.00220	mg/kg dry
cis-1,3-Dichloropropene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000278	0.00220	mg/kg dry
Cyclohexane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000486	0.00220	mg/kg dry
Dichlorodifluoromethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000741	0.00220	mg/kg dry
EthylBenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000298	0.00220	mg/kg dry
Isopropylbenzene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000345	0.00220	mg/kg dry
m+p-Xylenes	**SW 846 8260C**	09/17/20 17:26	09/17/20 17:26	**0.00127**	**J**	**0.000555**	**0.00439**	mg/kg dry
Methyl Acetate	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000291	0.00220	mg/kg dry
Methyl tert-Butyl Ether	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000371	0.00220	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
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H - Indicates a Hold Time violation

Analytical Results Summary

Conquest Contracting Engineers

0090585-01 (Soil)

Williams St

Collected	Received	Contact
09/14/2020 08:50	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
VO+15 Volatile Organics - GC/MS								
Methylcyclohexane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000354	0.00220	mg/kg dry
Methylene Chloride	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000660	0.00220	mg/kg dry
o-Xylene	**SW 846 8260C**	09/17/20 17:26	09/17/20 17:26	**0.000734**	**J**	**0.000282**	**0.00220**	mg/kg dry
Styrene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000314	0.00220	mg/kg dry
tert-Butyl alcohol	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.00461	0.0220	mg/kg dry
Tetrachloroethene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000217	0.00220	mg/kg dry
Toluene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000177	0.00220	mg/kg dry
Total Xylenes	**SW 846 8260C**	09/17/20 17:26	09/17/20 17:26	**0.00201**	**J**	**0.000282**	**0.00220**	mg/kg dry
trans-1,2-Dichloroethene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000298	0.00220	mg/kg dry
trans-1,3-Dichloropropene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000419	0.00220	mg/kg dry
Trichloroethene	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000323	0.00220	mg/kg dry
Trichlorofluoromethane	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000253	0.00220	mg/kg dry
Vinyl chloride	SW 846 8260C	09/17/20 17:26	09/17/20 17:26	ND	U	0.000417	0.00220	mg/kg dry

FootNotes

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APL
AQUA PRO-TECH LABORATORIES
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Analytical Results Summary

Conquest Contracting Engineers

0090585-02 (Soil)

Jefferson St

Collected	Received	Contact
09/14/2020 11:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Chromium, Hexavalent	SW 846 7196A	09/16/20 07:40	09/16/20 09:30	ND	U		0.431	mg/kg dry
Cyanide	SW 846 9014	09/15/20 13:13	09/16/20 15:25	ND	U		0.267	mg/kg dry
Percent Solids	**Gravimetric**	09/14/20 17:55	09/15/20 10:40	**91.4**				%
pH	**SW 846 9045D**	09/21/20 15:50	09/21/20 15:50	**6.72**			**0.0100**	pH Units
Redox Potential	**SM 2580 (mod)**	09/21/20 13:35	09/21/20 13:55	**158**			**-1000**	mV
Total Metals								
Aluminum	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**7350**			**2.76**	mg/kg dry
Antimony	SW 846 6010D	09/16/20 06:38	09/18/20 11:49	ND	U		1.38	mg/kg dry
Arsenic	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**2.13**			**1.38**	mg/kg dry
Barium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**34.8**			**0.553**	mg/kg dry
Beryllium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**0.338**			**0.0276**	mg/kg dry
Cadmium	SW 846 6010D	09/16/20 06:38	09/18/20 11:49	ND	U		0.276	mg/kg dry
Calcium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**887**			**27.6**	mg/kg dry
Chromium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**15.1**			**0.276**	mg/kg dry
Cobalt	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**3.54**			**0.221**	mg/kg dry
Copper	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**7.13**			**0.276**	mg/kg dry
Iron	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**12300**	**B**		**5.53**	mg/kg dry
Lead	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**4.26**			**1.38**	mg/kg dry
Magnesium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**2270**			**55.3**	mg/kg dry
Manganese	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**147**			**0.276**	mg/kg dry
Mercury	SW 846 7471B	09/17/20 07:00	09/17/20 13:00	ND	U		0.0479	mg/kg dry
Nickel	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**11.9**			**0.138**	mg/kg dry
Potassium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**633**			**111**	mg/kg dry
Selenium	SW 846 6010D	09/16/20 06:38	09/18/20 11:49	ND	U		1.38	mg/kg dry
Silver	SW 846 6010D	09/16/20 06:38	09/18/20 11:49	ND	U		0.553	mg/kg dry
Sodium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**175**			**55.3**	mg/kg dry
Thallium	SW 846 6010D	09/16/20 06:38	09/18/20 11:49	ND	U		1.38	mg/kg dry
Vanadium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**13.0**			**0.553**	mg/kg dry
Zinc	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:49	**22.2**			**0.829**	mg/kg dry
EPH Category 2 Extractable Petroleum Hydrocarbons Category 2								
Total EPH	**NJDEP-EPH-CAT2**	09/16/20 15:55	09/21/20 12:03	**22.3**		**10.9**	**21.9**	mg/kg dry
BNA+25 Semivolatile Organics - GC/MS								

FootNotes

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APL
AQUA PRO-TECH LABORATORIES
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Analytical Results Summary

Conquest Contracting Engineers

0090585-02 (Soil)

Jefferson St

Collected	Received	Contact
09/14/2020 11:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
BNA+25 Semivolatile Organics - GC/MS								
2,3,4,6-Tetrachlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0224	0.146	mg/kg dry
2,4,5-Trichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0198	0.146	mg/kg dry
2,4,6-Trichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00911	0.146	mg/kg dry
2,4-Dichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0147	0.146	mg/kg dry
2,4-Dimethylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0143	0.146	mg/kg dry
2,4-Dinitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0210	0.730	mg/kg dry
2,4-Dinitrotoluene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0155	0.146	mg/kg dry
2,6-Dinitrotoluene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0348	0.146	mg/kg dry
2-Chloronaphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0167	0.146	mg/kg dry
2-Chlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0193	0.146	mg/kg dry
2-Methylnaphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0349	0.219	mg/kg dry
2-Methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0288	0.146	mg/kg dry
2-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0117	0.146	mg/kg dry
2-Nitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0162	0.146	mg/kg dry
3,3'-Dichlorobenzidine	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0153	0.146	mg/kg dry
3+4-Methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0267	0.146	mg/kg dry
3-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0270	0.146	mg/kg dry
4,6-Dinitro-2-methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0275	0.364	mg/kg dry
4-Bromophenyl-phenyl ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0208	0.146	mg/kg dry
4-Chloro-3-methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0230	0.146	mg/kg dry
4-Chloroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00510	0.146	mg/kg dry
4-Chlorophenyl phenyl ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00787	0.146	mg/kg dry
4-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0729	0.146	mg/kg dry
4-Nitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00932	0.146	mg/kg dry
Acenaphthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00830	0.146	mg/kg dry
Acenaphthylene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00507	0.146	mg/kg dry
Acetophenone	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0144	0.146	mg/kg dry
Anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0211	0.146	mg/kg dry
Atrazine	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0137	0.146	mg/kg dry
Benzaldehyde	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0448	0.146	mg/kg dry
Benzo(a)anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0147	0.146	mg/kg dry
Benzo(a)pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0254	0.146	mg/kg dry
Benzo(b)fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0205	0.146	mg/kg dry
Benzo(g,h,i)perylene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0118	0.146	mg/kg dry
Benzo(k)fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0167	0.146	mg/kg dry
Biphenyl	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0128	0.146	mg/kg dry

FootNotes

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Analytical Results Summary

Conquest Contracting Engineers

0090585-02 (Soil)

Jefferson St

Collected	Received	Contact
09/14/2020 11:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
BNA+25 Semivolatile Organics - GC/MS								
bis(2-chloroethoxy)methane	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0201	0.146	mg/kg dry
bis(2-chloroethyl)ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0160	0.146	mg/kg dry
bis(2-chloroisopropyl)ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0524	0.146	mg/kg dry
bis(2-ethylhexyl)phthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0291	0.146	mg/kg dry
Butylbenzylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0132	0.146	mg/kg dry
Caprolactam	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0188	0.146	mg/kg dry
Carbazole	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0280	0.364	mg/kg dry
Chrysene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00998	0.146	mg/kg dry
Dibenzo(a,h)anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0144	0.146	mg/kg dry
Dibenzofuran	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00868	0.146	mg/kg dry
Diethylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0282	0.146	mg/kg dry
Dimethylphthalate	**SW 846 8270D**	09/17/20 08:04	09/18/20 22:17	**0.0561**	**J**	**0.00904**	**0.146**	mg/kg dry
Di-n-butylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0595	0.146	mg/kg dry
Di-n-octylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0299	0.146	mg/kg dry
Fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0137	0.146	mg/kg dry
Fluorene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0121	0.146	mg/kg dry
Hexachlorobenzene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0190	0.146	mg/kg dry
Hexachlorobutadiene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0699	0.146	mg/kg dry
Hexachlorocyclopentadiene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0607	0.364	mg/kg dry
Hexachloroethane	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0160	0.146	mg/kg dry
Indeno(1,2,3-cd)pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0156	0.146	mg/kg dry
Isophorone	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00954	0.146	mg/kg dry
Naphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0108	0.146	mg/kg dry
Nitrobenzene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0247	0.146	mg/kg dry
n-Nitroso-di-n-propylamine	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.00780	0.146	mg/kg dry
n-Nitrosodiphenylamine	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0311	0.146	mg/kg dry
Pentachlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0200	0.364	mg/kg dry
Phenanthrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0191	0.146	mg/kg dry
Phenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0118	0.146	mg/kg dry
Pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:17	ND	U	0.0107	0.146	mg/kg dry
Pesticides								
4,4'-DDD	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000651	0.00142	mg/kg dry
4,4'-DDE	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000778	0.00142	mg/kg dry
4,4'-DDT	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.00100	0.00142	mg/kg dry
Aldrin	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000674	0.00142	mg/kg dry

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APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-02 (Soil)

Jefferson St

Collected	Received	Contact
09/14/2020 11:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
Pesticides								
alpha-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000423	0.00142	mg/kg dry
beta-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000679	0.00142	mg/kg dry
Chlordane	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000632	0.00142	mg/kg dry
delta-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000661	0.00142	mg/kg dry
Dieldrin	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000744	0.00142	mg/kg dry
Endosulfan I	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000672	0.00142	mg/kg dry
Endosulfan II	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000647	0.00142	mg/kg dry
Endosulfan sulfate	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000535	0.00142	mg/kg dry
Endrin	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000491	0.00142	mg/kg dry
Endrin aldehyde	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000567	0.00142	mg/kg dry
Endrin ketone	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000501	0.00142	mg/kg dry
gamma-BHC (Lindane)	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000451	0.00142	mg/kg dry
Heptachlor	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000381	0.00142	mg/kg dry
Heptachlor Epoxide	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000718	0.00142	mg/kg dry
Methoxychlor	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.000417	0.00142	mg/kg dry
Toxaphene	SW 846 8081B	09/17/20 08:10	09/18/20 16:13	ND	U	0.0685	0.0722	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00484	0.0361	mg/kg dry
Aroclor-1221	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00952	0.0361	mg/kg dry
Aroclor-1232	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.0121	0.0361	mg/kg dry
Aroclor-1242	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00710	0.0361	mg/kg dry
Aroclor-1248	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00742	0.0361	mg/kg dry
Aroclor-1254	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00583	0.0361	mg/kg dry
Aroclor-1260	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00452	0.0361	mg/kg dry
Aroclor-1262	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00972	0.0361	mg/kg dry
Aroclor-1268	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00437	0.0361	mg/kg dry
Total PCBs	SW 846 8082A	09/17/20 08:07	09/17/20 17:05	ND	U	0.00337	0.0361	mg/kg dry
VO+15 Volatile Organics - GC/MS								
1,1,1-Trichloroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000319	0.00219	mg/kg dry
1,1,2,2-Tetrachloroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000302	0.00219	mg/kg dry
1,1,2-Trichloro-1,2,2 Trifluoroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000937	0.00219	mg/kg dry
1,1,2-Trichloroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000369	0.00219	mg/kg dry
1,1-Dichloroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000319	0.00219	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
ND, U - Indicates compound analyzed for but not detected
J - Indicates estimated value

B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-02 (Soil)

Jefferson St

Collected	Received	Contact
09/14/2020 11:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
VO+15 Volatile Organics - GC/MS								
1,1-Dichloroethene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000405	0.00219	mg/kg dry
1,2,3-Trichlorobenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000473	0.00219	mg/kg dry
1,2,4-Trichlorobenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000583	0.00219	mg/kg dry
1,2,4-Trimethylbenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000302	0.00219	mg/kg dry
1,2-Dibromo-3-chloropropane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000534	0.00547	mg/kg dry
1,2-Dibromoethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000276	0.00219	mg/kg dry
1,2-Dichlorobenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000386	0.00219	mg/kg dry
1,2-Dichloroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000309	0.00219	mg/kg dry
1,2-Dichloropropane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000359	0.00219	mg/kg dry
1,3-Dichlorobenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000161	0.00219	mg/kg dry
1,4-Dichlorobenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000315	0.00219	mg/kg dry
2-Butanone	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000357	0.00547	mg/kg dry
2-Hexanone	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000205	0.00219	mg/kg dry
4-Methyl-2-pentanone	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000274	0.00219	mg/kg dry
Acetone	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000663	0.00547	mg/kg dry
Benzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000199	0.00219	mg/kg dry
Bromochloromethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000404	0.00219	mg/kg dry
Bromodichloromethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000275	0.00219	mg/kg dry
Bromoform	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000384	0.00219	mg/kg dry
Bromomethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000631	0.00219	mg/kg dry
Carbon disulfide	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000314	0.00219	mg/kg dry
Carbon Tetrachloride	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000329	0.00219	mg/kg dry
Chlorobenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000317	0.00219	mg/kg dry
Chlorodibromomethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000269	0.00219	mg/kg dry
Chloroethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000373	0.00219	mg/kg dry
Chloroform	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000368	0.00219	mg/kg dry
Chloromethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000843	0.00219	mg/kg dry
cis-1,2-Dichloroethene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000106	0.00219	mg/kg dry
cis-1,3-Dichloropropene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000277	0.00219	mg/kg dry
Cyclohexane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000485	0.00219	mg/kg dry
Dichlorodifluoromethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000739	0.00219	mg/kg dry
EthylBenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000297	0.00219	mg/kg dry
Isopropylbenzene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000344	0.00219	mg/kg dry
m+p-Xylenes	**SW 846 8260C**	09/17/20 17:56	09/17/20 17:56	**0.00115**	**J**	**0.000553**	**0.00438**	mg/kg dry
Methyl Acetate	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000290	0.00219	mg/kg dry
Methyl tert-Butyl Ether	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000370	0.00219	mg/kg dry

FootNotes

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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

Analytical Results Summary

Conquest Contracting Engineers

0090585-02 (Soil)

Jefferson St

Collected	Received	Contact
09/14/2020 11:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
VO+15 Volatile Organics - GC/MS								
Methylcyclohexane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000352	0.00219	mg/kg dry
Methylene Chloride	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000658	0.00219	mg/kg dry
o-Xylene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000281	0.00219	mg/kg dry
Styrene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000313	0.00219	mg/kg dry
tert-Butyl alcohol	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.00460	0.0219	mg/kg dry
Tetrachloroethene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000217	0.00219	mg/kg dry
Toluene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000176	0.00219	mg/kg dry
Total Xylenes	**SW 846 8260C**	09/17/20 17:56	09/17/20 17:56	**0.00115**	**J**	**0.000281**	**0.00219**	mg/kg dry
trans-1,2-Dichloroethene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000297	0.00219	mg/kg dry
trans-1,3-Dichloropropene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000418	0.00219	mg/kg dry
Trichloroethene	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000322	0.00219	mg/kg dry
Trichlorofluoromethane	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000252	0.00219	mg/kg dry
Vinyl chloride	SW 846 8260C	09/17/20 17:56	09/17/20 17:56	ND	U	0.000416	0.00219	mg/kg dry
VO+15 Volatile Organics - GC/MS TIC								
Azuleno[4,5-b]furan-2(3H)-one, 9-(acetyl	**SW 846 8260C**	09/17/20 17:56	09/17/20 17:56	**0.0188**	**J**			mg/kg dry
				TIC Total: 0.0188				

FootNotes

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APL
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Analytical Results Summary

Conquest Contracting Engineers

0090585-03 (Soil)

Salem St

Collected	Received	Contact
09/14/2020 13:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
General Chemistry								
Chromium, Hexavalent	SW 846 7196A	09/16/20 07:40	09/16/20 09:30	ND	U		0.481	mg/kg dry
Cyanide	SW 846 9014	09/15/20 13:13	09/16/20 15:25	ND	U		0.307	mg/kg dry
Percent Solids	**Gravimetric**	09/14/20 17:55	09/15/20 10:40	**83.9**				%
pH	**SW 846 9045D**	09/21/20 15:50	09/21/20 15:50	**6.37**			**0.0100**	pH Units
Redox Potential	**SM 2580 (mod)**	09/21/20 13:35	09/21/20 13:55	**116**			**-1000**	mV
Total Metals								
Aluminum	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**9440**			**3.00**	mg/kg dry
Antimony	SW 846 6010D	09/16/20 06:38	09/18/20 11:52	ND	U		1.50	mg/kg dry
Arsenic	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**3.15**			**1.50**	mg/kg dry
Barium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**77.9**			**0.599**	mg/kg dry
Beryllium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**0.465**			**0.0300**	mg/kg dry
Cadmium	SW 846 6010D	09/16/20 06:38	09/18/20 11:52	ND	U		0.300	mg/kg dry
Calcium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**1270**			**30.0**	mg/kg dry
Chromium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**15.3**			**0.300**	mg/kg dry
Cobalt	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**6.23**			**0.240**	mg/kg dry
Copper	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**7.73**			**0.300**	mg/kg dry
Iron	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**13500**	**B**		**5.99**	mg/kg dry
Lead	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**8.00**			**1.50**	mg/kg dry
Magnesium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**2000**			**59.9**	mg/kg dry
Manganese	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**713**			**0.300**	mg/kg dry
Mercury	**SW 846 7471B**	09/17/20 07:00	09/17/20 13:04	**0.0623**			**0.0504**	mg/kg dry
Nickel	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**11.4**			**0.150**	mg/kg dry
Potassium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**566**			**120**	mg/kg dry
Selenium	SW 846 6010D	09/16/20 06:38	09/18/20 11:52	ND	U		1.50	mg/kg dry
Silver	SW 846 6010D	09/16/20 06:38	09/18/20 11:52	ND	U		0.599	mg/kg dry
Sodium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**252**			**59.9**	mg/kg dry
Thallium	SW 846 6010D	09/16/20 06:38	09/18/20 11:52	ND	U		1.50	mg/kg dry
Vanadium	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**19.8**			**0.599**	mg/kg dry
Zinc	**SW 846 6010D**	09/16/20 06:38	09/18/20 11:52	**30.0**			**0.899**	mg/kg dry
EPH Category 2 Extractable Petroleum Hydrocarbons Category 2								
Total EPH	**NJDEP-EPH-CAT2**	09/16/20 15:55	09/21/20 12:20	**25.5**		**11.9**	**23.8**	mg/kg dry
BNA+25 Semivolatile Organics - GC/MS								

FootNotes

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D - Indicates result is based on a dilution
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APL
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Analytical Results Summary

Conquest Contracting Engineers

0090585-03 (Soil)

Salem St

Collected	Received	Contact
09/14/2020 13:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
BNA+25 Semivolatile Organics - GC/MS								
2,3,4,6-Tetrachlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0244	0.159	mg/kg dry
2,4,5-Trichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0216	0.159	mg/kg dry
2,4,6-Trichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00993	0.159	mg/kg dry
2,4-Dichlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0160	0.159	mg/kg dry
2,4-Dimethylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0156	0.159	mg/kg dry
2,4-Dinitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0229	0.795	mg/kg dry
2,4-Dinitrotoluene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0169	0.159	mg/kg dry
2,6-Dinitrotoluene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0379	0.159	mg/kg dry
2-Chloronaphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0182	0.159	mg/kg dry
2-Chlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0210	0.159	mg/kg dry
2-Methylnaphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0380	0.238	mg/kg dry
2-Methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0314	0.159	mg/kg dry
2-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0128	0.159	mg/kg dry
2-Nitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0176	0.159	mg/kg dry
3,3'-Dichlorobenzidine	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0167	0.159	mg/kg dry
3+4-Methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0291	0.159	mg/kg dry
3-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0294	0.159	mg/kg dry
4,6-Dinitro-2-methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0299	0.397	mg/kg dry
4-Bromophenyl-phenyl ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0227	0.159	mg/kg dry
4-Chloro-3-methylphenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0250	0.159	mg/kg dry
4-Chloroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00556	0.159	mg/kg dry
4-Chlorophenyl phenyl ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00857	0.159	mg/kg dry
4-Nitroaniline	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0794	0.159	mg/kg dry
4-Nitrophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0102	0.159	mg/kg dry
Acenaphthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00905	0.159	mg/kg dry
Acenaphthylene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00552	0.159	mg/kg dry
Acetophenone	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0157	0.159	mg/kg dry
Anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0230	0.159	mg/kg dry
Atrazine	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0149	0.159	mg/kg dry
Benzaldehyde	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0488	0.159	mg/kg dry
Benzo(a)anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0160	0.159	mg/kg dry
Benzo(a)pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0277	0.159	mg/kg dry
Benzo(b)fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0223	0.159	mg/kg dry
Benzo(g,h,i)perylene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0129	0.159	mg/kg dry
Benzo(k)fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0182	0.159	mg/kg dry
Biphenyl	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0139	0.159	mg/kg dry

FootNotes

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D - Indicates result is based on a dilution
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APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-03 (Soil)

Salem St

Collected	Received	Contact
09/14/2020 13:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
BNA+25 Semivolatile Organics - GC/MS								
bis(2-chloroethoxy)methane	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0219	0.159	mg/kg dry
bis(2-chloroethyl)ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0174	0.159	mg/kg dry
bis(2-chloroisopropyl)ether	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0571	0.159	mg/kg dry
bis(2-ethylhexyl)phthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0317	0.159	mg/kg dry
Butylbenzylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0144	0.159	mg/kg dry
Caprolactam	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0205	0.159	mg/kg dry
Carbazole	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0305	0.397	mg/kg dry
Chrysene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0109	0.159	mg/kg dry
Dibenzo(a,h)anthracene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0157	0.159	mg/kg dry
Dibenzofuran	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00945	0.159	mg/kg dry
Diethylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0308	0.159	mg/kg dry
Dimethylphthalate	**SW 846 8270D**	09/17/20 08:04	09/18/20 22:45	**0.110**	**J**	**0.00985**	**0.159**	mg/kg dry
Di-n-butylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0649	0.159	mg/kg dry
Di-n-octylphthalate	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0325	0.159	mg/kg dry
Fluoranthene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0149	0.159	mg/kg dry
Fluorene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0132	0.159	mg/kg dry
Hexachlorobenzene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0207	0.159	mg/kg dry
Hexachlorobutadiene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0762	0.159	mg/kg dry
Hexachlorocyclopentadiene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0662	0.397	mg/kg dry
Hexachloroethane	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0174	0.159	mg/kg dry
Indeno(1,2,3-cd)pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0170	0.159	mg/kg dry
Isophorone	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0104	0.159	mg/kg dry
Naphthalene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0118	0.159	mg/kg dry
Nitrobenzene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0269	0.159	mg/kg dry
n-Nitroso-di-n-propylamine	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.00850	0.159	mg/kg dry
n-Nitrosodiphenylamine	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0339	0.159	mg/kg dry
Pentachlorophenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0218	0.397	mg/kg dry
Phenanthrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0209	0.159	mg/kg dry
Phenol	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0129	0.159	mg/kg dry
Pyrene	SW 846 8270D	09/17/20 08:04	09/18/20 22:45	ND	U	0.0117	0.159	mg/kg dry
Pesticides								
4,4'-DDD	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000709	0.00155	mg/kg dry
4,4'-DDE	**SW 846 8081B**	09/17/20 08:10	09/18/20 16:33	**0.00276**		**0.000848**	**0.00155**	mg/kg dry
4,4'-DDT	**SW 846 8081B**	09/17/20 08:10	09/18/20 16:33	**0.00181**		**0.00109**	**0.00155**	mg/kg dry
Aldrin	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000734	0.00155	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
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D - Indicates result is based on a dilution
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APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-03 (Soil)

Salem St

Collected	Received	Contact
09/14/2020 13:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
Pesticides								
alpha-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000461	0.00155	mg/kg dry
beta-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000740	0.00155	mg/kg dry
Chlordane	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000689	0.00155	mg/kg dry
delta-BHC	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000720	0.00155	mg/kg dry
Dieldrin	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000811	0.00155	mg/kg dry
Endosulfan I	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000732	0.00155	mg/kg dry
Endosulfan II	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000705	0.00155	mg/kg dry
Endosulfan sulfate	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000583	0.00155	mg/kg dry
Endrin	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000535	0.00155	mg/kg dry
Endrin aldehyde	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000618	0.00155	mg/kg dry
Endrin ketone	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000546	0.00155	mg/kg dry
gamma-BHC (Lindane)	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000491	0.00155	mg/kg dry
Heptachlor	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000415	0.00155	mg/kg dry
Heptachlor Epoxide	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000782	0.00155	mg/kg dry
Methoxychlor	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.000454	0.00155	mg/kg dry
Toxaphene	SW 846 8081B	09/17/20 08:10	09/18/20 16:33	ND	U	0.0747	0.0787	mg/kg dry
PCBs								
Aroclor-1016	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00528	0.0393	mg/kg dry
Aroclor-1221	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.0104	0.0393	mg/kg dry
Aroclor-1232	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.0132	0.0393	mg/kg dry
Aroclor-1242	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00773	0.0393	mg/kg dry
Aroclor-1248	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00809	0.0393	mg/kg dry
Aroclor-1254	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00635	0.0393	mg/kg dry
Aroclor-1260	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00493	0.0393	mg/kg dry
Aroclor-1262	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.0106	0.0393	mg/kg dry
Aroclor-1268	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00476	0.0393	mg/kg dry
Total PCBs	SW 846 8082A	09/17/20 08:07	09/17/20 17:27	ND	U	0.00367	0.0393	mg/kg dry
VO+15 Volatile Organics - GC/MS								
1,1,1-Trichloroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000348	0.00238	mg/kg dry
1,1,2,2-Tetrachloroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000329	0.00238	mg/kg dry
1,1,2-Trichloro-1,2,2 Trifluoroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.00102	0.00238	mg/kg dry
1,1,2-Trichloroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000402	0.00238	mg/kg dry
1,1-Dichloroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000348	0.00238	mg/kg dry

FootNotes

RL - Reporting limit
MDL - Minimum detection limit
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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
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APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-03 (Soil)

Salem St

Collected	Received	Contact
09/14/2020 13:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
VO+15 Volatile Organics - GC/MS								
1,1-Dichloroethene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000441	0.00238	mg/kg dry
1,2,3-Trichlorobenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000515	0.00238	mg/kg dry
1,2,4-Trichlorobenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000635	0.00238	mg/kg dry
1,2,4-Trimethylbenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000329	0.00238	mg/kg dry
1,2-Dibromo-3-chloropropane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000582	0.00596	mg/kg dry
1,2-Dibromoethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000300	0.00238	mg/kg dry
1,2-Dichlorobenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000421	0.00238	mg/kg dry
1,2-Dichloroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000336	0.00238	mg/kg dry
1,2-Dichloropropane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000391	0.00238	mg/kg dry
1,3-Dichlorobenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000175	0.00238	mg/kg dry
1,4-Dichlorobenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000343	0.00238	mg/kg dry
2-Butanone	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000389	0.00596	mg/kg dry
2-Hexanone	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000223	0.00238	mg/kg dry
4-Methyl-2-pentanone	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000298	0.00238	mg/kg dry
Acetone	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000722	0.00596	mg/kg dry
Benzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000217	0.00238	mg/kg dry
Bromochloromethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000440	0.00238	mg/kg dry
Bromodichloromethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000299	0.00238	mg/kg dry
Bromoform	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000418	0.00238	mg/kg dry
Bromomethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000688	0.00238	mg/kg dry
Carbon disulfide	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000342	0.00238	mg/kg dry
Carbon Tetrachloride	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000359	0.00238	mg/kg dry
Chlorobenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000346	0.00238	mg/kg dry
Chlorodibromomethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000293	0.00238	mg/kg dry
Chloroethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000407	0.00238	mg/kg dry
Chloroform	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000401	0.00238	mg/kg dry
Chloromethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000918	0.00238	mg/kg dry
cis-1,2-Dichloroethene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000115	0.00238	mg/kg dry
cis-1,3-Dichloropropene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000302	0.00238	mg/kg dry
Cyclohexane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000528	0.00238	mg/kg dry
Dichlorodifluoromethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000805	0.00238	mg/kg dry
EthylBenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000323	0.00238	mg/kg dry
Isopropylbenzene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000374	0.00238	mg/kg dry
m+p-Xylenes	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000602	0.00477	mg/kg dry
Methyl Acetate	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000316	0.00238	mg/kg dry
Methyl tert-Butyl Ether	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000403	0.00238	mg/kg dry

FootNotes

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E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
P - Greater than 25% diff. between 2 GC columns.
H - Indicates a Hold Time violation

APL
AQUA PRO-TECH LABORATORIES
Certified Environmental Testing

Analytical Results Summary

Conquest Contracting Engineers

0090585-03 (Soil)

Salem St

Collected	Received	Contact
09/14/2020 13:00	09/14/2020 16:05	

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
VO+15 Volatile Organics - GC/MS								
Methylcyclohexane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000384	0.00238	mg/kg dry
Methylene Chloride	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000716	0.00238	mg/kg dry
o-Xylene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000306	0.00238	mg/kg dry
Styrene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000341	0.00238	mg/kg dry
tert-Butyl alcohol	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.00501	0.0238	mg/kg dry
Tetrachloroethene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000236	0.00238	mg/kg dry
Toluene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000192	0.00238	mg/kg dry
Total Xylenes	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000306	0.00238	mg/kg dry
trans-1,2-Dichloroethene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000323	0.00238	mg/kg dry
trans-1,3-Dichloropropene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000455	0.00238	mg/kg dry
Trichloroethene	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000350	0.00238	mg/kg dry
Trichlorofluoromethane	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000274	0.00238	mg/kg dry
Vinyl chloride	SW 846 8260C	09/17/20 18:27	09/17/20 18:27	ND	U	0.000453	0.00238	mg/kg dry

FootNotes

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APL 0090585

AQUA PRO-TECH LABORATORIES
www.aquaprotechlabs.com
BUILDING 6
FIELD, NEW JERSEY 07004
TEL: 973.227.0422
FAX: 973.227.2813

CHAIN OF CUSTODY

PAGE 1 OF 1

CLIENT: CONQUEST CONTRACTING ENGINEERS
ADDRESS: 20 CARVER AVE
WESTWOOD NJ
PHONE: 201-666-2266
E-MAIL: fsiuttino@conquestinc.net
PROJECT NAME: Jefferson St. Ridgewood
PROJECT MGR: FRANK SIUTTINO
PROJECT or PO #:

SEND REPORT TO:
ADDRESS:
PHONE:
FAX:
SEND INVOICE TO:
ADDRESS:
SAMPLED BY: MM

TURN-AROUND TIME
- [ ] APL STANDARD 2 weeks
- [x] RUSH (choose one below)
  - [ ] 24 hr. date & time required
  - [ ] 48 hr. date & time required
  - [ ] 72 hr. date & time required
  - [x] 1 week

REPORT FORMAT
- [x] RESULTS ONLY
- [ ] NJ DEP REDUCED
- [ ] NJ DEP FULL
- [ ] STATE FORMS/E2 REPORTING

PWSID#

ELECTRONIC FORMAT
- [ ] EMAIL DELIVERY
- [ ] HAZSITE EDD
- [ ] EXCEL

SRP#

CONTAMINATION LEVEL
- [ ] HIGH [ ] MEDIUM [ ] LOW

MATRIX ABBREVIATIONS: D - DRINKING WATER G - GROUNDWATER W - WASTEWATER S - SOIL SL - SLUDGE C - CONCRETE L - LAKE

APL Lab ID#	Sample Source: Field ID	Date	Time	Sample Type: GRAB	Sample Type: COMP	MATRIX	No. of Bottles	Preservative	Analysis Requested
0090585-01	WILLIAMS ST.	9/14/20	8:50 AM			S	1		TCL/TAL+30, EPH 2, HEXAVALENT CHROMIUM, PH
02	JEFFERSON ST.	9/14/20	11:00 AM			S	1		
03	SALEM ST.	9/14/20	1:00 PM			S	1		

RELINQUISHED BY (Print)	Michael Moreno	DATE 9/14/20	RECEIVED BY (Print)
Signature		Time	Signature
RELINQUISHED BY (Print)		DATE 9/14/20	RECEIVED BY (Print)
Signature		Time 16:05	Signature
RELINQUISHED BY (Print)		DATE	RECEIVED BY (Print)
Signature		Time	Signature

COMMENTS/SPECIAL INSTRUCTIONS

Cooler Temp. upon receipt at lab 4.0

CERTIFICATIONS: NELAP (National Environmental Laboratory Accredation Program) NJDEP #07010 PADEP #68-02903 NYDOH #11634 CTPH #0233 US ARMY

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples

APPENDIX G

RIDGEWOOD WATER COMPANY SPOIL PILE ANALYTICAL DATA

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Eurofins QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966-0514

Report Date: December 22, 2016

Project: L6065481

Submittal Date: 11/30/2016
Group Number: 1739018
SDG: EDR01
PO Number: L6065481
State of Sample Origin: NJ

Client Sample Description	Lancaster Labs (LL) #
L6065481-1 Grab Soil	8721669

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Eurofins QC Laboratories Attn: Nicki Smith

Respectfully Submitted,

Bonnie Gingras
Manager

(201) 729-1907

Project Name: L6065481
LL Group #: 1739018

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

SW-846 8260B, GC/MS Volatiles

Batch #: B163421AA (Sample number(s): 8721669 UNSPK: P719335)

The recovery(ies) for the following analyte(s) in the MS was outside the acceptance window: Chloromethane, Vinyl Chloride, Chlorobenzene, Ethylbenzene, Styrene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, Xylene (Total), Acrylonitrile

SW-846 8270C, GC/MS Semivolatiles

Sample #s: 8721669

Reporting limits were raised due to interference from the sample matrix. The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC/DoD Standards. The following analytes are accepted based on this allowance:
Hexachlorocyclopentadiene

Batch #: 16337SLN026 (Sample number(s): 8721669 UNSPK: P720165)

The recovery(ies) for the following analyte(s) in the LCS were below the acceptance window: Hexachlorocyclopentadiene

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: N-Nitroso-di-n-propylamine, 4-Chloro-3-methylphenol, Acenaphthene, Pentachlorophenol, Pyrene, 2,4-Dichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrophenol, Hexachloroethane, Nitrobenzene, Isophorone, Naphthalene, Hexachlorocyclopentadiene, Dimethylphthalate, Fluorene, Diethylphthalate, N-Nitrosodiphenylamine, Hexachlorobenzene, Anthracene, Di-n-butylphthalate, Fluoranthene, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene, 3,3'-Dichlorobenzidine, bis(2-Ethylhexyl)phthalate, Di-n-octylphthalate, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzyl alcohol, 2-Methylphenol, 4-Chloroaniline, 2,4,5-Trichlorophenol, Phenol, 2,4-Dimethylphenol, bis(2-Chloroethyl)ether, bis(2-Chloroisopropyl)ether, Benzo(b)fluoranthene

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: N-Nitroso-di-n-propylamine, Acenaphthene, 2,4-Dichlorophenol, 2,4,6-Trichlorophenol, bis(2-Chloroethyl)ether, bis(2-Chloroisopropyl)ether, Nitrobenzene, Isophorone, Fluorene, N-Nitrosodiphenylamine, Chrysene, 2,4,5-Trichlorophenol

The recovery(ies) for one or more surrogates were outside of the QC window for sample(s) MS, MSD

SW-846 6010C, Metals

Batch #: 163370637003 (Sample number(s): 8721669 UNSPK: 8721669 BKG: 8721669)

The recovery(ies) for the following analyte(s) in the MS and/or MSD was outside the acceptance window: Copper

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside outside acceptance windows: Copper

The duplicate RPD for the following analyte(s) exceeded the acceptance window: Arsenic, Antimony, Barium, Cadmium

Sample Description: L6065481-1 Grab Soil
SOIL/DIRT

LL Sample # SW 8721669
LL Group # 1739018
Account # 26325

Project Name: L6065481

Collected: 11/28/2016 07:00 by BD

Submitted: 11/30/2016 05:30
Reported: 12/22/2016 14:05

Eurofins QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966-0514

SOILD SDG#: EDR01-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	8	22	0.97
10237	Acrylonitrile	107-13-1	N.D. Q4	4	22	0.97
10237	Benzene	71-43-2	N.D.	0.5	5	0.97
10237	Bromodichloromethane	75-27-4	N.D.	1	5	0.97
10237	Bromoform	75-25-2	N.D.	1	5	0.97
10237	Bromomethane	74-83-9	N.D.	2	5	0.97
10237	2-Butanone	78-93-3	N.D.	4	11	0.97
10237	Carbon Tetrachloride	56-23-5	N.D.	1	5	0.97
10237	Chlorobenzene	108-90-7	N.D. Q4	1	5	0.97
10237	Chloroform	67-66-3	N.D.	1	5	0.97
10237	Chloromethane	74-87-3	N.D. Q4	2	5	0.97
10237	Dibromochloromethane	124-48-1	N.D.	1	5	0.97
10237	1,2-Dichlorobenzene	95-50-1	N.D. Q4	1	5	0.97
10237	1,3-Dichlorobenzene	541-73-1	N.D. Q4	1	5	0.97
10237	1,4-Dichlorobenzene	106-46-7	N.D. Q4	1	5	0.97
10237	1,1-Dichloroethane	75-34-3	N.D.	1	5	0.97
10237	1,2-Dichloroethane	107-06-2	N.D.	1	5	0.97
10237	1,1-Dichloroethene	75-35-4	N.D.	1	5	0.97
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	5	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	5	0.97
10237	1,2-Dichloropropane	78-87-5	N.D.	1	5	0.97
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	5	0.97
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	5	0.97
10237	Ethylbenzene	100-41-4	N.D. Q4	1	5	0.97
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	11	0.97
10237	Methylene Chloride	75-09-2	N.D.	2	5	0.97
10237	Styrene	100-42-5	N.D. Q4	1	5	0.97
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	5	0.97
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	5	0.97
10237	Tetrachloroethene	127-18-4	N.D.	1	5	0.97
10237	Toluene	108-88-3	N.D.	1	5	0.97
10237	1,2,4-Trichlorobenzene	120-82-1	N.D. Q4	1	5	0.97
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	5	0.97
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	5	0.97
10237	Trichloroethene	79-01-6	N.D.	1	5	0.97
10237	Vinyl Chloride	75-01-4	N.D. Q4	1	5	0.97
10237	Xylene (Total)	1330-20-7	N.D. Q4	1	5	0.97
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg	ug/kg	ug/kg	
10727	Acenaphthene	83-32-9	N.D. Q4Q9	180	940	10
10727	Anthracene	120-12-7	N.D. Q4	180	940	10
10727	Benzo(a)anthracene	56-55-3	N.D. Q4	180	940	10
10727	Benzo(a)pyrene	50-32-8	N.D. Q4	180	940	10
10727	Benzo(b)fluoranthene	205-99-2	N.D. Q4	180	940	10
10727	Benzo(k)fluoranthene	207-08-9	N.D.	180	940	10
10727	Benzyl alcohol	100-51-6	N.D. Q4	9,200	28,000	10
10727	Butylbenzylphthalate	85-68-7	N.D. Q4	3,700	9,200	10
10727	Di-n-butylphthalate	84-74-2	N.D. Q4	3,700	9,200	10
10727	4-Chloro-3-methylphenol	59-50-7	N.D. Q4	920	1,800	10

*=This limit was used in the evaluation of the final result

Sample Description: L6065481-1 Grab Soil
SOIL/DIRT

LL Sample # SW 8721669
LL Group # 1739018
Account # 26325

Project Name: L6065481

Collected: 11/28/2016 07:00 by BD

Submitted: 11/30/2016 05:30
Reported: 12/22/2016 14:05

Eurofins QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966-0514

SOILD SDG#: EDR01-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
10727	4-Chloroaniline	106-47-8	N.D. Q4	1,800	3,700	10
10727	bis(2-Chloroethyl)ether	111-44-4	N.D. Q4Q9	920	1,800	10
10727	bis(2-Chloroisopropyl)ether	39638-32-9	N.D. Q4Q9	920	1,800	10
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10727	2-Chlorophenol	95-57-8	N.D.	920	1,800	10
10727	Chrysene	218-01-9	N.D. Q4Q9	180	940	10
10727	Dibenz(a,h)anthracene	53-70-3	N.D.	180	940	10
10727	3,3'-Dichlorobenzidine	91-94-1	N.D. Q4	5,500	18,000	10
10727	2,4-Dichlorophenol	120-83-2	N.D. Q4Q9	920	1,800	10
10727	Diethylphthalate	84-66-2	N.D. Q4	3,700	9,200	10
10727	2,4-Dimethylphenol	105-67-9	N.D. Q4	920	1,800	10
10727	Dimethylphthalate	131-11-3	N.D. Q4	3,700	9,200	10
10727	2,4-Dinitrophenol	51-28-5	N.D. Q4	17,000	55,000	10
10727	2,4_2,6-Dinitrotoluenes	25321-14-6	N.D.	1,800	9,200	10
10727	bis(2-Ethylhexyl)phthalate	117-81-7	N.D. Q4	3,700	9,400	10
10727	Fluoranthene	206-44-0	N.D. Q4	180	940	10
10727	Fluorene	86-73-7	N.D. Q4Q9	180	940	10
10727	Hexachlorobenzene	118-74-1	N.D. Q4	180	940	10
10727	Hexachlorobutadiene	87-68-3	N.D.	920	1,800	10
10727	Hexachlorocyclopentadiene	77-47-4	N.D. Q0Q4	9,200	28,000	10
10727	Hexachloroethane	67-72-1	N.D. Q4	1,800	9,200	10
10727	Indeno(1,2,3-cd)pyrene	193-39-5	N.D. Q4	180	940	10
10727	Isophorone	78-59-1	N.D. Q4Q9	920	1,800	10
10727	2-Methylphenol	95-48-7	N.D. Q4	920	1,800	10
10727	4-Methylphenol	106-44-5	N.D.	920	1,800	10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10727	Naphthalene	91-20-3	N.D. Q4	180	940	10
10727	Nitrobenzene	98-95-3	N.D. Q4Q9	920	1,800	10
10727	N-Nitroso-di-n-propylamine	621-64-7	N.D. Q4Q9	920	1,800	10
10727	N-Nitrosodiphenylamine	86-30-6	N.D. Q4Q9	920	1,800	10
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10727	Di-n-octylphthalate	117-84-0	N.D. Q4	3,700	9,200	10
10727	Pentachlorophenol	87-86-5	N.D. Q4	1,800	9,400	10
10727	Phenol	108-95-2	N.D. Q4	920	1,800	10
10727	Pyrene	129-00-0	N.D. Q4	180	940	10
10727	2,4,5-Trichlorophenol	95-95-4	N.D. Q4Q9	920	1,800	10
10727	2,4,6-Trichlorophenol	88-06-2	N.D. Q4Q9	920	1,800	10

Reporting limits were raised due to interference from the sample matrix.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC/DoD Standards. The following analytes are accepted based on this allowance:

*=This limit was used in the evaluation of the final result

Sample Description: L6065481-1 Grab Soil
SOIL/DIRT

LL Sample # SW 8721669
LL Group # 1739018
Account # 26325

Project Name: L6065481

Collected: 11/28/2016 07:00 by BD

Submitted: 11/30/2016 05:30
Reported: 12/22/2016 14:05

Eurofins QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966-0514

SOILD SDG#: EDR01-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Hexachlorocyclopentadiene					
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**	**ug/kg**	**ug/kg**	
10738	Aldrin	309-00-2	N.D.	0.19	0.91	1
10738	Gamma BHC - Lindane	58-89-9	N.D.	0.19	0.91	1
10738	p,p-DDD	72-54-8	N.D.	0.36	1.9	1
10738	p,p-DDE	72-55-9	0.97 J	0.36	1.9	1
10738	p,p-DDT	50-29-3	1.1 J	0.38	1.9	1
10738	Dieldrin	60-57-1	N.D.	0.36	1.9	1
10738	Endosulfan I	959-98-8	N.D.	0.24	0.91	1
10738	Endosulfan II	33213-65-9	N.D.	0.36	1.9	1
10738	Endrin	72-20-8	N.D.	0.36	1.9	1
10738	Heptachlor	76-44-8	N.D.	0.19	0.91	1
10738	Methoxychlor	72-43-5	N.D.	1.9	7.3	1
10738	Toxaphene	8001-35-2	N.D.	15	36	1
Pesticides/PCBs	**SW-846 8082A Feb 2007 Rev 1**		**ug/kg**	**ug/kg**	**ug/kg**	
10885	PCB-1016	12674-11-2	N.D.	3.9	19	1
10885	PCB-1221	11104-28-2	N.D.	5.0	19	1
10885	PCB-1232	11141-16-5	N.D.	8.7	19	1
10885	PCB-1242	53469-21-9	N.D.	3.6	19	1
10885	PCB-1248	12672-29-6	N.D.	3.6	19	1
10885	PCB-1254	11097-69-1	N.D.	3.6	19	1
10885	PCB-1260	11096-82-5	N.D.	5.3	19	1
Metals	**SW-846 6010C**		**mg/kg**	**mg/kg**	**mg/kg**	
06944	Antimony	7440-36-0	0.854 J Q8	0.651	3.72	1
06935	Arsenic	7440-38-2	1.74 J Q8	0.903	3.72	1
06946	Barium	7440-39-3	33.5 Q8	0.0307	0.931	1
06947	Beryllium	7440-41-7	0.306 J	0.0624	0.931	1
06949	Cadmium	7440-43-9	0.0819 J Q8	0.0456	0.931	1
06951	Chromium	7440-47-3	10.8	0.130	2.79	1
02829	Trivalent Chromium soils	16065-83-1	10.8	0.55	2.8	1
	The Trivalent Chromium result is calculated by subtracting Hexavalent Chromium from Total Chromium.					
06953	Copper	7440-50-8	9.72 Q4Q9	0.214	1.86	1
06955	Lead	7439-92-1	5.04 B	0.512	2.79	1
06961	Nickel	7440-02-0	8.08	0.279	1.86	1
06936	Selenium	7782-49-2	1.70 J	0.838	3.72	1
06966	Silver	7440-22-4	N.D.	0.140	0.931	1
06925	Thallium	7440-28-0	2.08 J	0.763	5.58	1
06971	Vanadium	7440-62-2	22.1	0.130	0.931	1
06972	Zinc	7440-66-6	16.8	0.633	3.72	1
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	Total Cyanide (solid)	57-12-5	N.D.	0.21	0.57	1
	SW-846 7196A		**mg/kg**	**mg/kg**	**mg/kg**	
00425	Hexavalent Chromium (SOLIDS)	18540-29-9	N.D.	0.55	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: L6065481-1 Grab Soil
SOIL/DIRT

LL Sample # SW 8721669
LL Group # 1739018
Account # 26325

Project Name: L6065481

Collected: 11/28/2016 07:00 by BD

Submitted: 11/30/2016 05:30
Reported: 12/22/2016 14:05

Eurofins QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966-0514

SOILD SDG#: EDR01-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SM 2540 G-1997**		%	%	%	
00111	Moisture	n.a.	9.7	0.50	0.50	1
	Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					
07400	Percent Solids	n.a.	90.3	0.50	0.50	1
	The total residue is calculated by subtracting the moisture value from 100%.					

Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B163421AA	12/08/2016 01:42	Patrick T Herres	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201633843627	12/03/2016 12:20	Katelyn C Shober	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201633843627	12/03/2016 12:20	Katelyn C Shober	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201633843627	12/03/2016 11:33	Katelyn C Shober	n.a.
10727	TCL 8270 (microwave)	SW-846 8270C	1	16337SLN026	12/08/2016 14:37	Linda M Hartenstine	10
10809	BNA Soil Microwave	SW-846 3546	1	16337SLN026	12/05/2016 09:30	Gladys Doddamani	1
10738	Pesticides in Soil (microwave)	SW-846 8081A	1	163410013A	12/21/2016 14:10	Andrea L Jones	1
10885	PCBs 8082A/3546	SW-846 8082A Feb 2007 Rev 1	1	163410014A	12/08/2016 00:43	Kirby B Turner	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	163410014A	12/07/2016 09:00	Michelle A Newswanger	1
10496	PPL Pest. Microwave Extraction	SW-846 3546	1	163410013A	12/07/2016 09:00	Michelle A Newswanger	1
06944	Antimony	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06935	Arsenic	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06946	Barium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06947	Beryllium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06949	Cadmium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06951	Chromium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
02829	Trivalent Chromium soils	SW-846 6010C	1	163562829001	12/21/2016 08:35	Nina C Haller	1
06953	Copper	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06955	Lead	SW-846 6010C	1	163370637003	12/09/2016 21:23	Cindy M Gehman	1
06961	Nickel	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1

*=This limit was used in the evaluation of the final result

Sample Description: L6065481-1 Grab Soil
SOIL/DIRT

LL Sample # SW 8721669
LL Group # 1739018
Account # 26325

Project Name: L6065481

Collected: 11/28/2016 07:00 by BD

Submitted: 11/30/2016 05:30
Reported: 12/22/2016 14:05

Eurofins QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966-0514

SOILD SDG#: EDR01-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06936	Selenium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06966	Silver	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06925	Thallium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06971	Vanadium	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
06972	Zinc	SW-846 6010C	1	163370637003	12/08/2016 10:04	Katlin N Cataldi	1
10637	ICP/ICPMS-SW, 3050B - U4	SW-846 3050B	1	163370637003	12/04/2016 22:32	Annamaria Kuhns	1
05895	Total Cyanide (solid)	SW-846 9012B	1	16337102201A	12/03/2016 12:00	Brianna A White	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	16337102201A	12/02/2016 18:45	Barbara A Washington	1
00425	Hexavalent Chromium (SOLIDS)	SW-846 7196A	1	16352042501A	12/18/2016 06:25	Daniel S Smith	1
07825	Hexavalent Cr (Extraction)	SW-846 3060A	1	16352042501A	12/17/2016 07:30	Daniel S Smith	1
00111	Moisture	SM 2540 G-1997	1	16337820001A	12/02/2016 11:38	Larry E Bevins	1
07400	Percent Solids	SM 2540 G-1997	1	16337820001A	12/02/2016 11:38	Larry E Bevins	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/kg	ug/kg	ug/kg
Batch number: B163421AA	Sample number(s): 8721669		
Acetone	N.D.	7	20
Acrylonitrile	N.D.	4	20
Benzene	N.D.	0.5	5
Bromodichloromethane	N.D.	1	5
Bromoform	N.D.	1	5
Bromomethane	N.D.	2	5
2-Butanone	N.D.	4	10
Carbon Tetrachloride	N.D.	1	5
Chlorobenzene	N.D.	1	5
Chloroform	N.D.	1	5
Chloromethane	N.D.	2	5
Dibromochloromethane	N.D.	1	5
1,2-Dichlorobenzene	N.D.	1	5
1,3-Dichlorobenzene	N.D.	1	5
1,4-Dichlorobenzene	N.D.	1	5
1,1-Dichloroethane	N.D.	1	5
1,2-Dichloroethane	N.D.	1	5
1,1-Dichloroethene	N.D.	1	5
cis-1,2-Dichloroethene	N.D.	1	5
trans-1,2-Dichloroethene	N.D.	1	5
1,2-Dichloropropane	N.D.	1	5
cis-1,3-Dichloropropene	N.D.	1	5
trans-1,3-Dichloropropene	N.D.	1	5
Ethylbenzene	N.D.	1	5
4-Methyl-2-pentanone	N.D.	3	10
Methylene Chloride	N.D.	2	5
Styrene	N.D.	1	5
1,1,1,2-Tetrachloroethane	N.D.	1	5
1,1,2,2-Tetrachloroethane	N.D.	1	5
Tetrachloroethene	N.D.	1	5
Toluene	N.D.	1	5
1,2,4-Trichlorobenzene	N.D.	1	5
1,1,1-Trichloroethane	N.D.	1	5
1,1,2-Trichloroethane	N.D.	1	5
Trichloroethene	N.D.	1	5
Vinyl Chloride	N.D.	1	5
Xylene (Total)	N.D.	1	5
Batch number: 16337SLN026	Sample number(s): 8721669		
Acenaphthene	N.D.	3	17
Anthracene	N.D.	3	17

*- Outside of specification
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Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/kg	ug/kg	ug/kg
Benzo(a)anthracene	N.D.	3	17
Benzo(a)pyrene	N.D.	3	17
Benzo(b)fluoranthene	N.D.	3	17
Benzo(k)fluoranthene	N.D.	3	17
Benzyl alcohol	N.D.	170	500
Butylbenzylphthalate	N.D.	67	170
Di-n-butylphthalate	N.D.	67	170
4-Chloro-3-methylphenol	N.D.	17	33
4-Chloroaniline	N.D.	33	67
bis(2-Chloroethyl)ether	N.D.	17	33
bis(2-Chloroisopropyl)ether	N.D.	17	33
2-Chlorophenol	N.D.	17	33
Chrysene	N.D.	3	17
Dibenz(a,h)anthracene	N.D.	3	17
3,3'-Dichlorobenzidine	N.D.	100	330
2,4-Dichlorophenol	N.D.	17	33
Diethylphthalate	N.D.	67	170
2,4-Dimethylphenol	N.D.	17	33
Dimethylphthalate	N.D.	67	170
2,4-Dinitrophenol	N.D.	300	1,000
2,4_2,6-Dinitrotoluenes	N.D.	33	170
bis(2-Ethylhexyl)phthalate	N.D.	67	170
Fluoranthene	N.D.	3	17
Fluorene	N.D.	3	17
Hexachlorobenzene	N.D.	3	17
Hexachlorobutadiene	N.D.	17	33
Hexachlorocyclopentadiene	N.D.	170	500
Hexachloroethane	N.D.	33	170
Indeno(1,2,3-cd)pyrene	N.D.	3	17
Isophorone	N.D.	17	33
2-Methylphenol	N.D.	17	33
4-Methylphenol	N.D.	17	33
Naphthalene	N.D.	3	17
Nitrobenzene	N.D.	17	33
N-Nitroso-di-n-propylamine	N.D.	17	33
N-Nitrosodiphenylamine	N.D.	17	33
Di-n-octylphthalate	N.D.	67	170
Pentachlorophenol	N.D.	33	170
Phenol	N.D.	17	33
Pyrene	N.D.	3	17
2,4,5-Trichlorophenol	N.D.	17	33
2,4,6-Trichlorophenol	N.D.	17	33
Batch number: 163410013A	Sample number(s): 8721669		
Aldrin	N.D.	0.17	0.83
Gamma BHC - Lindane	N.D.	0.17	0.83
p,p-DDD	N.D.	0.33	1.7
p,p-DDE	N.D.	0.33	1.7
p,p-DDT	N.D.	0.35	1.7

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Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/kg	ug/kg	ug/kg
Dieldrin	N.D.	0.33	1.7
Endosulfan I	N.D.	0.22	0.83
Endosulfan II	N.D.	0.33	1.7
Endrin	N.D.	0.33	1.7
Heptachlor	N.D.	0.17	0.83
Methoxychlor	N.D.	1.7	6.7
Toxaphene	N.D.	14	33
Batch number: 163410014A	Sample number(s): 8721669		
PCB-1016	N.D.	3.6	17
PCB-1221	N.D.	4.6	17
PCB-1232	N.D.	8.0	17
PCB-1242	N.D.	3.3	17
PCB-1248	N.D.	3.3	17
PCB-1254	N.D.	3.3	17
PCB-1260	N.D.	4.9	17
	mg/kg	mg/kg	mg/kg
Batch number: 163370637003	Sample number(s): 8721669		
Antimony	N.D.	0.700	4.00
Arsenic	N.D.	0.970	4.00
Barium	N.D.	0.0330	1.00
Beryllium	N.D.	0.0670	1.00
Cadmium	N.D.	0.0490	1.00
Chromium	N.D.	0.140	3.00
Copper	N.D.	0.230	2.00
Lead	0.666 J	0.550	3.00
Nickel	N.D.	0.300	2.00
Selenium	N.D.	0.900	4.00
Silver	N.D.	0.150	1.00
Thallium	N.D.	0.820	6.00
Vanadium	N.D.	0.140	1.00
Zinc	N.D.	0.680	4.00
Batch number: 16337102201A	Sample number(s): 8721669		
Total Cyanide (solid)	N.D.	0.18	0.50
Batch number: 16352042501A	Sample number(s): 8721669		
Hexavalent Chromium (SOLIDS)	N.D.	0.50	1.5

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/kg	ug/kg	ug/kg	ug/kg					
Batch number: B163421AA	Sample number(s): 8721669								
Acetone	150	190.61	150	178.15	127	119	39-150	7	30

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Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/kg	LCS Conc ug/kg	LCSD Spike Added ug/kg	LCSD Conc ug/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acrylonitrile	100	104.61	100	102.23	105	102	66-120	2	30
Benzene	20	18.77	20	18.52	94	93	80-120	1	30
Bromodichloromethane	20	17.17	20	17.21	86	86	75-120	0	30
Bromoform	20	14.33	20	13.95	72	70	57-127	3	30
Bromomethane	20	18.33	20	18.24	92	91	21-165	0	30
2-Butanone	150	132.64	150	133.55	88	89	54-129	1	30
Carbon Tetrachloride	20	18.1	20	18.02	90	90	69-130	0	30
Chlorobenzene	20	17.9	20	17.64	90	88	80-120	1	30
Chloroform	20	19.03	20	18.9	95	95	80-120	1	30
Chloromethane	20	20.6	20	19.32	103	97	56-120	6	30
Dibromochloromethane	20	15.63	20	15.63	78	78	77-120	0	30
1,2-Dichlorobenzene	20	17.96	20	17.84	90	89	80-120	1	30
1,3-Dichlorobenzene	20	17.1	20	16.64	85	83	80-120	3	30
1,4-Dichlorobenzene	20	17.47	20	17.28	87	86	80-120	1	30
1,1-Dichloroethane	20	19.43	20	19.3	97	96	77-120	1	30
1,2-Dichloroethane	20	20.71	20	20.71	104	104	70-133	0	30
1,1-Dichloroethene	20	19.63	20	19.34	98	97	73-129	2	30
cis-1,2-Dichloroethene	20	18.19	20	18.17	91	91	80-120	0	30
trans-1,2-Dichloroethene	20	20.22	20	19.92	101	100	80-125	2	30
1,2-Dichloropropane	20	18.94	20	18.79	95	94	76-120	1	30
cis-1,3-Dichloropropene	20	17.23	20	17.16	86	86	74-120	0	30
trans-1,3-Dichloropropene	20	17.12	20	16.92	86	85	76-120	1	30
Ethylbenzene	20	18.01	20	17.84	90	89	80-120	1	30
4-Methyl-2-pentanone	100	95.29	100	93.29	95	93	48-136	2	30
Methylene Chloride	20	19.33	20	19.14	97	96	76-122	1	30
Styrene	20	16.84	20	16.86	84	84	76-120	0	30
1,1,1,2-Tetrachloroethane	20	16.86	20	16.79	84	84	75-120	0	30
1,1,2,2-Tetrachloroethane	20	15.51	20	15.04	78	75	67-121	3	30
Tetrachloroethene	20	20.07	20	18.77	100	94	78-120	7	30
Toluene	20	18.02	20	17.79	90	89	80-120	1	30
1,2,4-Trichlorobenzene	20	16.54	20	15.97	83	80	63-121	4	30
1,1,1-Trichloroethane	20	16.59	20	16.4	83	82	66-128	1	30
1,1,2-Trichloroethane	20	17.18	20	16.98	86	85	80-120	1	30
Trichloroethene	20	18.61	20	18.26	93	91	80-120	2	30
Vinyl Chloride	20	19.41	20	19.35	97	97	59-120	0	30
Xylene (Total)	60	54.63	60	53.79	91	90	80-120	2	30
	ug/kg	ug/kg	ug/kg	ug/kg					
Batch number: 16337SLN026	Sample number(s): 8721669								
Acenaphthene	1666.67	1575.23			95		83-116		
Anthracene	1666.67	1524.17			91		82-118		
Benzo(a)anthracene	1666.67	1604.8			96		76-119		
Benzo(a)pyrene	1666.67	1601			96		85-117		
Benzo(b)fluoranthene	1666.67	1735.32			104		79-121		
Benzo(k)fluoranthene	1666.67	1555.95			93		79-120		
Benzyl alcohol	1666.67	1756.94			105		64-119		
Butylbenzylphthalate	1666.67	1541.29			92		80-118		
Di-n-butylphthalate	1666.67	1510.28			91		84-120		

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Quality Control Summary

Client Name: Eurofins QC Laboratories Group Number: 1739018
Reported: 12/22/2016 14:05

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/kg	LCS Conc ug/kg	LCSD Spike Added ug/kg	LCSD Conc ug/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chloro-3-methylphenol	1666.67	1746.03			105		74-132		
4-Chloroaniline	1666.67	760.2			46		10-100		
bis(2-Chloroethyl)ether	1666.67	1679.49			101		77-115		
bis(2-Chloroisopropyl)ether	1666.67	1563.24			94		62-127		
2-Chlorophenol	1666.67	1688.52			101		85-123		
Chrysene	1666.67	1554.5			93		80-121		
Dibenz(a,h)anthracene	1666.67	1665.92			100		81-123		
3,3'-Dichlorobenzidine	1666.67	901.99			54		10-116		
2,4-Dichlorophenol	1666.67	1684.81			101		86-125		
Diethylphthalate	1666.67	1564.88			94		81-118		
2,4-Dimethylphenol	1666.67	1331.07			80		73-117		
Dimethylphthalate	1666.67	1576.81			95		82-113		
2,4-Dinitrophenol	3333.33	2112.86			63		16-132		
bis(2-Ethylhexyl)phthalate	1666.67	1551.53			93		81-121		
Fluoranthene	1666.67	1465.88			88		81-117		
Fluorene	1666.67	1637.71			98		86-118		
Hexachlorobenzene	1666.67	1601.85			96		79-116		
Hexachlorobutadiene	1666.67	1539.46			92		72-120		
Hexachlorocyclopentadiene	3333.33	1676.48			50*		57-142		
Hexachloroethane	1666.67	1488.81			89		78-114		
Indeno(1,2,3-cd)pyrene	1666.67	1589.47			95		75-118		
Isophorone	1666.67	1633.69			98		77-118		
2-Methylphenol	1666.67	1756.65			105		80-133		
4-Methylphenol	1666.67	1640.96			98		73-125		
Naphthalene	1666.67	1517.57			91		82-112		
Nitrobenzene	1666.67	1633.62			98		70-122		
N-Nitroso-di-n-propylamine	1666.67	1707.41			102		67-121		
N-Nitrosodiphenylamine	1666.67	1563.65			94		83-118		
Di-n-octylphthalate	1666.67	1788.28			107		80-140		
Pentachlorophenol	1666.67	1090.15			65		63-128		
Phenol	1666.67	1687.75			101		73-122		
Pyrene	1666.67	1496.73			90		80-120		
2,4,5-Trichlorophenol	1666.67	1705.04			102		86-123		
2,4,6-Trichlorophenol	1666.67	1729.72			104		81-123		
	ug/kg	ug/kg	ug/kg	ug/kg					
Batch number: 163410013A	Sample number(s): 8721669								
Aldrin	3.40	2.96			87		60-117		
Gamma BHC - Lindane	3.33	3.25			97		47-140		
p,p-DDD	6.60	6.70			102		69-138		
p,p-DDE	6.80	6.95			102		68-146		
p,p-DDT	6.60	6.61			100		67-135		
Dieldrin	6.60	5.98			91		63-126		
Endosulfan I	3.33	2.95			89		62-119		
Endosulfan II	6.77	5.98			88		65-126		
Endrin	6.67	6.18			93		65-125		
Heptachlor	3.33	3.02			91		66-118		
Methoxychlor	33.1	34.81			105		65-131		

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Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/kg	LCS Conc ug/kg	LCSD Spike Added ug/kg	LCSD Conc ug/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 163410014A	Sample number(s): 8721669								
PCB-1016	168	163.14			97		76-121		
PCB-1260	167	166.89			100		79-130		
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 163370637003	Sample number(s): 8721669								
Antimony	50	51.16			102		80-120		
Arsenic	15	15.03			100		80-120		
Barium	200	204.75			102		80-120		
Beryllium	5.00	5.14			103		80-120		
Cadmium	5.00	5.16			103		80-120		
Chromium	20	20.2			101		80-120		
Copper	25	25.68			103		80-120		
Lead	15	15.26			102		80-120		
Nickel	50	52.1			104		80-120		
Selenium	15	15.6			104		80-120		
Silver	5.00	5.20			104		80-120		
Thallium	15	15.77			105		80-120		
Vanadium	50	50.97			102		80-120		
Zinc	50	50.71			101		80-120		
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16337102201A	Sample number(s): 8721669								
Total Cyanide (solid)	10	10.15			101		90-110		
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16352042501A	Sample number(s): 8721669								
Hexavalent Chromium (SOLIDS)	5.00	4.72			94		80-120		
	%	%	%	%					
Batch number: 16337820001A	Sample number(s): 8721669								
Moisture	89.5	89.45			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/kg	MS Spike Added ug/kg	MS Conc ug/kg	MSD Spike Added ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: B163421AA	Sample number(s): 8721669 UNSPK: P719335									
Acetone	N.D.	141.24	207.5			147		39-150		
Acrylonitrile	N.D.	94.16	118.21			126*		66-120		

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Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/kg	MS Spike Added ug/kg	MS Conc ug/kg	MSD Spike Added ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Benzene	N.D.	18.83	18.04			96		80-120		
Bromodichloromethane	N.D.	18.83	16.63			88		75-120		
Bromoform	N.D.	18.83	12.72			68		57-127		
Bromomethane	N.D.	18.83	19.65			104		21-165		
2-Butanone	N.D.	141.24	129.72			92		54-129		
Carbon Tetrachloride	N.D.	18.83	17.48			93		69-130		
Chlorobenzene	N.D.	18.83	13.96			74*		80-120		
Chloroform	N.D.	18.83	19.59			104		80-120		
Chloromethane	N.D.	18.83	25.37			135*		56-120		
Dibromochloromethane	N.D.	18.83	14.9			79		77-120		
1,2-Dichlorobenzene	N.D.	18.83	13.74			73*		80-120		
1,3-Dichlorobenzene	N.D.	18.83	11.92			63*		80-120		
1,4-Dichlorobenzene	N.D.	18.83	12.4			66*		80-120		
1,1-Dichloroethane	N.D.	18.83	20.51			109		77-120		
1,2-Dichloroethane	N.D.	18.83	21.91			116		70-133		
1,1-Dichloroethene	N.D.	18.83	21.78			116		73-129		
cis-1,2-Dichloroethene	N.D.	18.83	18.35			97		80-120		
trans-1,2-Dichloroethene	N.D.	18.83	20.66			110		80-125		
1,2-Dichloropropane	N.D.	18.83	18.73			99		76-120		
cis-1,3-Dichloropropene	N.D.	18.83	15.77			84		74-120		
trans-1,3-Dichloropropene	N.D.	18.83	15.43			82		76-120		
Ethylbenzene	N.D.	18.83	12.46			66*		80-120		
4-Methyl-2-pentanone	N.D.	94.16	97.24			103		48-136		
Methylene Chloride	N.D.	18.83	21			111		76-122		
Styrene	N.D.	18.83	12.71			68*		76-120		
1,1,1,2-Tetrachloroethane	N.D.	18.83	14.72			78		75-120		
1,1,2,2-Tetrachloroethane	N.D.	18.83	14.88			79		67-121		
Tetrachloroethene	N.D.	18.83	18.83			100		78-120		
Toluene	N.D.	18.83	15.05			80		80-120		
1,2,4-Trichlorobenzene	N.D.	18.83	11.42			61*		63-121		
1,1,1-Trichloroethane	N.D.	18.83	16.68			89		66-128		
1,1,2-Trichloroethane	N.D.	18.83	16.84			89		80-120		
Trichloroethene	N.D.	18.83	16.55			88		80-120		
Vinyl Chloride	N.D.	18.83	23.63			125*		59-120		
Xylene (Total)	N.D.	56.5	38.2			68*		80-120		
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg					
Batch number: 16337SLN026	Sample number(s): 8721669 UNSPK: P720165									
Acenaphthene	8943.15	1642.58	5603.98	1651.25	3783.72	-202 (2)	-311 (2)	83-116	39*	30
Anthracene	9583.73	1642.58	4311.69	1651.25	3628.83	-320 (2)	-360 (2)	82-118	17	30
Benzo(a)anthracene	1977.83	1642.58	2242.87	1651.25	2191.12	16*	13*	76-119	2	30
Benzo(a)pyrene	1016.21	1642.58	2110.91	1651.25	1874.31	67*	52*	85-117	12	30
Benzo(b)fluoranthene	912.56	1642.58	2176.54	1651.25	2378.3	77*	89	79-121	9	30
Benzo(k)fluoranthene	381.74	1642.58	1897.14	1651.25	1751.65	92	83	79-120	8	30

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Quality Control Summary

Client Name: Eurofins QC Laboratories
Group Number: 1739018
Reported: 12/22/2016 14:05

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/kg	MS Spike Added ug/kg	MS Conc ug/kg	MSD Spike Added ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Benzyl alcohol	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	64-119	0	30
Butylbenzylphthalate	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	80-118	0	30
Di-n-butylphthalate	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	84-120	0	30
4-Chloro-3-methylphenol	N.D.	1642.58	3897.44	1651.25	3225.17	237*	195*	74-132	19	30
4-Chloroaniline	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	10-100	0	30
bis(2-Chloroethyl)ether	N.D.	1642.58	N.D.	1651.25	1893.46	0*	115	77-115	200*	30
bis(2-Chloroisopropyl)ether	N.D.	1642.58	N.D.	1651.25	1857.66	0*	113	62-127	200*	30
2-Chlorophenol	N.D.	1642.58	1757.72	1651.25	1773.71	107	107	85-123	1	30
Chrysene	5905.24	1642.58	4417.94	1651.25	3069.88	-90*	-171*	80-121	36*	30
Dibenz(a,h)anthracene	382.93	1642.58	2053.58	1651.25	1939.3	102	94	81-123	6	30
3,3'-Dichlorobenzidine	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	10-116	0	30
2,4-Dichlorophenol	N.D.	1642.58	4427.1	1651.25	3053.57	270*	185*	86-125	37*	30
Diethylphthalate	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	81-118	0	30
2,4-Dimethylphenol	N.D.	1642.58	1996.71	1651.25	1686.72	122*	102	73-117	17	30
Dimethylphthalate	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	82-113	0	30
2,4-Dinitrophenol	N.D.	3285.15	N.D.	3302.51	N.D.	0*	0*	16-132	0	30
bis(2-Ethylhexyl)phthalate	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	81-121	0	30
Fluoranthene	3059.23	1642.58	2941.16	1651.25	2271.43	-6*	-47*	81-117	26	30
Fluorene	17070.9	1642.58	8032.98	1651.25	5455.55	-549 (2)	-702 (2)	86-118	38*	30
Hexachlorobenzene	N.D.	1642.58	1682.52	1651.25	1936.33	102	117*	79-116	14	30
Hexachlorobutadiene	N.D.	1642.58	1866.69	1651.25	1883.36	114	114	72-120	1	30
Hexachlorocyclopentadiene	N.D.	3285.15	N.D.	3302.51	N.D.	0*	0*	57-142	0	30
Hexachloroethane	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	78-114	0	30
Indeno(1,2,3-cd)pyrene	N.D.	1642.58	2011.14	1651.25	1971.83	122*	119*	75-118	2	30
Isophorone	N.D.	1642.58	4652.3	1651.25	3232.69	283*	196*	77-118	36*	30
2-Methylphenol	N.D.	1642.58	2715.74	1651.25	2471.66	165*	150*	80-133	9	30
4-Methylphenol	N.D.	1642.58	1804.5	1651.25	1985.11	110	120	73-125	10	30
Naphthalene	15027.34	1642.58	9353.22	1651.25	7515.95	-344 (2)	-454 (2)	82-112	22	30
Nitrobenzene	N.D.	1642.58	13639.91	1651.25	N.D.	830*	0*	70-122	200*	30
N-Nitroso-di-n-propylamine	N.D.	1642.58	N.D.	1651.25	4767.5	0*	289*	67-121	200*	30
N-Nitrosodiphenylamine	N.D.	1642.58	15492.48	1651.25	8354.56	943*	506*	83-118	60*	30
Di-n-octylphthalate	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	80-140	0	30
Pentachlorophenol	N.D.	1642.58	N.D.	1651.25	N.D.	0*	0*	63-128	0	30
Phenol	N.D.	1642.58	2037.94	1651.25	1798.18	124*	109	73-122	13	30
Pyrene	9300.76	1642.58	4230.13	1651.25	3328.43	-308 (2)	-361 (2)	80-120	24	30
2,4,5-Trichlorophenol	N.D.	1642.58	4493.92	1651.25	2760.34	274*	167*	86-123	48*	30
2,4,6-Trichlorophenol	N.D.	1642.58	3733.05	1651.25	2385.8	227*	144*	81-123	44*	30
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg					
Batch number: 163410013A	Sample number(s): 8721669 UNSPK: P727347									
Aldrin	N.D.	3.38	2.88	3.36	2.70	85	80	60-117	6	50
Gamma BHC - Lindane	N.D.	3.30	3.08	3.28	2.88	93	88	47-140	7	50
p,p-DDD	N.D.	6.54	6.54	6.50	6.09	100	94	69-138	7	50

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc	MS Spike Added	MS Conc	MSD Spike Added	MSD Conc	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg					
p,p-DDE	0.698	6.74	6.76	6.70	6.35	90	84	68-146	6	50
p,p-DDT	N.D.	6.54	6.37	6.50	5.95	97	92	67-135	7	50
Dieldrin	0.508	6.54	5.69	6.50	5.27	79	73	63-126	8	50
Endosulfan I	N.D.	3.30	2.83	3.28	2.63	86	80	62-119	7	50
Endosulfan II	N.D.	6.71	5.74	6.67	5.34	86	80	65-126	7	50
Endrin	N.D.	6.61	5.91	6.57	5.49	89	83	65-125	8	50
Heptachlor	N.D.	3.30	2.89	3.28	2.72	87	83	66-118	6	50
Methoxychlor	N.D.	32.8	33.79	32.6	30.71	103	94	65-131	10	50
Batch number: 163410014A	Sample number(s): 8721669 UNSPK: P716867									
PCB-1016	N.D.	166	155.97	167	158.7	94	95	76-121	2	50
PCB-1260	N.D.	166	157.1	166	158.27	95	95	79-130	1	50
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 163370637003	Sample number(s): 8721669 UNSPK: 8721669									
Antimony	0.771	37.04	31.38	42.02	37.22	83	87	75-125	17	20
Arsenic	1.57	11.11	11.81	12.61	13.68	92	96	75-125	15	20
Barium	30.25	148.15	166.19	168.07	199.29	92	101	75-125	18	20
Beryllium	0.276	3.70	3.90	4.20	4.45	98	99	75-125	13	20
Cadmium	0.0739	3.70	3.49	4.20	4.08	92	95	75-125	16	20
Chromium	9.79	14.81	26.92	16.81	27.75	116	107	75-125	3	20
Copper	8.78	18.52	35.31	21.01	28.46	143*	94	75-125	22*	20
Lead	4.55	11.11	14.1	12.61	15.85	86	90	75-125	12	20
Nickel	7.30	37.04	43.96	42.02	47.21	99	95	75-125	7	20
Selenium	1.53	11.11	12.2	12.61	13.25	96	93	75-125	8	20
Silver	N.D.	3.70	3.61	4.20	4.21	97	100	75-125	15	20
Thallium	1.87	11.11	12.74	12.61	13.94	98	96	75-125	9	20
Vanadium	19.93	37.04	62.49	42.02	61.92	115	100	75-125	1	20
Zinc	15.17	37.04	56.64	42.02	57.33	112	100	75-125	1	20
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16337102201A	Sample number(s): 8721669 UNSPK: P716866									
Total Cyanide (solid)	N.D.	5.05	5.20			103		41-145		
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 16352042501A	Sample number(s): 8721669 UNSPK: P739841									
Hexavalent Chromium (SOLIDS)	141.44	39.8	177.89			92		75-125		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	mg/kg	mg/kg		
Batch number: 163370637003	Sample number(s): 8721669 BKG: 8721669			
Antimony	0.771	N.D.	200* (1)	20
Arsenic	1.57	2.30	38* (1)	20
Barium	30.25	24.11	23*	20
Beryllium	0.276	0.303	9 (1)	20
Cadmium	0.0739	0.0538	32* (1)	20
Chromium	9.79	10.16	4 (1)	20
Copper	8.78	7.35	18 (1)	20
Lead	4.55	4.57	0 (1)	20
Nickel	7.30	7.69	5 (1)	20
Selenium	1.53	1.61	5 (1)	20
Silver	N.D.	N.D.	0 (1)	20
Thallium	1.87	1.75	7 (1)	20
Vanadium	19.93	17.58	12	20
Zinc	15.17	16.65	9 (1)	20
	mg/kg	mg/kg		
Batch number: 16337102201A	Sample number(s): 8721669 BKG: P716866			
Total Cyanide (solid)	N.D.	N.D.	0 (1)	20
	mg/kg	mg/kg		
Batch number: 16352042501A	Sample number(s): 8721669 BKG: P739841			
Hexavalent Chromium (SOLIDS)	141.44	140.48	1	20
	%	%		
Batch number: 16337820001A	Sample number(s): 8721669 BKG: P721821			
Moisture	79.32	78.8	1	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- Solid by 8260B
Batch number: B163421AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8721669	101	98	99	96
Blank	100	101	97	99
LCS	100	102	99	100
LCSD	101	100	99	100
MS	103	101	100	100
Limits:	50-141	54-135	52-141	50-131

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Eurofins QC Laboratories
Reported: 12/22/2016 14:05

Group Number: 1739018

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL 8270 (microwave)
Batch number: 16337SLN026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
8721669	96	91	90	101	102	113
Blank	94	91	103	89	84	98
LCS	104	98	102	92	91	99
MS	113	99	98	246*	108	128
MSD	113	99	99	165*	108	118
Limits:	58-122	57-126	28-141	54-123	63-117	49-129

Analysis Name: Pesticides in Soil (microwave)
Batch number: 163410013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
8721669	85	94
Blank	90	104
LCS	89	99
MS	87	98
MSD	82	99
Limits:	26-145	39-152

Analysis Name: PCBs 8082A/3546
Batch number: 163410014A

	Tetrachloro-m-xylene	Decachlorobiphenyl
8721669	112	97
Blank	111	103
LCS	113	111
MS	104	100
MSD	108	98
Limits:	53-140	45-143

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

QC LABORATORIES
1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

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CHAIN OF CUSTODY

Page 1 of 1

Lab LIMS No: L1665481

LAB USE ONLY:

Ascorbic/HCl Vials # HCl Vials
$Na_2S_2O_3$
NaOH/Zn acetate pH
HNO_3 pH
H_2SO_4 pH
NaOH pH
2 Unpreserved
HCl pH
Temp/control (ID#)

MATRIX CODES

DW: DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

Client/Acct. No. VILLAGE OF RIDGEWOOD
Address 131 N MAPLE AVE
City/State/Zip RIDGEWOOD NJ 07450
Phone/Fax 201-670-5577
Client Contact YAGNESH VYAS

Bill to/Report to: (if different)
Sampling Site Address: (if different)
P.O. No.
QC Contact

LAB USE ONLY

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers: Total	H_2SO_4	HCl	$Na_2S_2O_3$	HNO_3	NaOH	ZnAc	Unpres	Bact
SOIL / DIRT SAMPLE	11-28-16	0700	X		SO	2							X	

ANALYSIS REQUESTED

PLEASE TEST FOR ALL PARAMETERS LISTED ON ATTACHED SHEETS

Field pH, Temp (C or F), DO, Cl_2, S, Cond. etc.

Field Parameters Analyzed By:
Sig:
Date/Time:

SAMPLED BY: (Name/Company)

Verbal/fax data due: ___/___/___
Hardcopy due: ___/___/___

Report Format: ☒ Standard ☐ Forms
☒ Standard + QC ☐ NJ Reduced ☐ Disk

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

	DATE	TIME		DATE	TIME
RELINQUISHED BY SAMPLER 1	11-28-16	0900	RECEIVED BY 1	11-29-16	0900
RELINQUISHED BY 2	11-29-16	1530	RECEIVED BY 2 Cooler #160	11-29-16	1530
RELINQUISHED BY 3 Cooler 160	11/29/16	22:00	RECEIVED BY 3	11/29/16	22:00
RELINQUISHED BY 4	DATE	TIME	RECEIVED BY 4	DATE	TIME
RELINQUISHED BY 5	DATE	TIME	RECEIVED BY 5	113016	530

DELIVERY METHOD: ☐ QC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER ___

Custody Seal Number

COMMENTS:
EMAIL ADDRESS -
YVYAS@RIDGEWOOD.NJ.NET
4.1°C/AT/USA/1600

Hazardous: yes / no

For example to aid completion, see reverse side.

FINAL REPORT

G-1739018

Site Remediation Program

Soil Cleanup Criteria (mg/kg)

Table Last Revised: 12 May 1999 to correct the impact to ground water criterion for bis(2-chloroethyl) ether. Please note that this table is for reference purpose and cases with Remedial Action Workplans approved prior to the May 7, 2012 amendments of the Remediation Standards at N.J.A.C. 7:26D.

This listing represents the combination of Tables 3-2 and 7-1 from the Department of Environmental Protection and Energy's February 3, 1992 proposed rule entitled Cleanup Standards for Contaminated Sites, N.J.A.C. 7:26D, as corrected based upon errors identified by the Department during or subsequent to the comment period as well as new toxicological or other information obtained since the rule proposal. Please refer to the respective footnotes for more detail. Notwithstanding, where the following criteria are based on human health impacts, the Department shall still consider environmental impacts when establishing site specific cleanup criteria. This along with other site-specific factors including background conditions may result in site specific cleanup criteria which differ from the criteria listed below. Therefore, this list shall not be assumed to represent approval by the Department of any remedial action or to represent the Department's opinion that a site requires remediation.

Alternate Formats

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Help for Using Files

Note: Material bracketed [thus] is deleted and material underlined thus is added

Contaminant	CASRN	Residential Direct Contact Soil Cleanup Criteria (a) (b) (RDCSCC)	Non- Residential Direct Contact Soil Cleanup Criteria (a) (b) (NRDCSCC)	Impact to Ground water Soil Cleanup Criteria (b) (IGWSCC)
Acenaphthene	83-32-9	3400	10000(c)	100
Acetone (2-propanone)	67-64-1	1000(d)	1000(d)	100
Acrylonitrile	107-13-1	1	5	1
Aldrin	309-00-2	0.040	0.17	50
Anthracene	120-12-7	10000(c)	10000(c)	100
Antimony	7440-36-0	14	340	(h)
Arsenic	7440-38-2	20 (e)	20 (e)	(h)
Barium	7440-39-3	700	47000(n)	(h)
Benzene	71-43-2	3	13	1
Benzo(b)fluoranthene (3,4-Benzofluoranthene)	205-99-2	0.9	4	50
Benzo(a)anthracene (1,2-Benzanthracene)	56-55-3	0.9	4	500

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Benzo(a)pyrene (BaP)	50-32-8	0.66(f)	0.66(f)	100
Benzo(k)fluoranthene	207-08-9	0.9	4	500
Benzyl Alcohol	100-51-6	10000(c)	10000(c)	50
Beryllium	7440-41-7	[1(f)] 2 (e)	[1(f)] 2 (e)	(h)
Bis(2-chloroethyl) ether	111-44-4	0.66(f)	3	10
Bis(2-chloroisopropyl)ether	108-60-1	2300	10000(c)	10
Bis(2-ethylhexyl) phthalate	117-81-7	49	210	100
Bromodichloromethane (Dichlorobromomethane)	75-27-4	11	46	1
Bromoform	75-25-2	86	370	1
Bromomethane (Methyl bromide)	74-83-9	79	1000 (d)	1
2-Butanone (Methyl ethyl ketone) (MEK)	78-93-3	1000 (d)	1000 (d)	50
Butylbenzyl phthalate	85-68-7	1100	10000 (c)	100
Cadmium	7440-43-9	[1] 39	100	(h)
Carbon tetrachloride	56-23-5	2 (k)	4 (k)	1
4-Chloroaniline (*p*-Chloroaniline)	106-47-8	230	4200	(r)
Chlorobenzene	108-90-7	37	680	1
Chloroform	67-66-3	19 (k)	28 (k)	1
4-Chloro-3-methyl phenol (*p*-Chloro-*m*-cresol)	59-50-7	10000 (c)	10000 (c)	100
Chloromethane (Methyl chloride)	74-87-3	520	1000 (d)	10
2-Chlorophenol (*o*-Chlorophenol)	95-57-8	280	5200	10
Chromium – hexavalent (VI)	18540-29-9	240; 270 (g); (i)	6100; 20 (g); (i)	(h)
Chromium – trivalent (III)	16065-83-1	120,000	(j)	(l)
Chrysene	218-01-9	9	40	500
Copper	7440-50-8	600 (m)	600 (m)	(h)
Cyanide	57-12-5	1100	21000 (o)	(h)
4,4'-DDD (p,p'-TDE)	72-54-8	3	12	50
4,4'-DDE (p,p'-DDX)	72-55-9	2	9	50
4,4'-DDT	50-29-3	2	9	500
Dibenz(a,h)anthracene	53-70-3	0.66 (f)	0.66 (f)	100
Dibromochloromethane (Chlorodibromomethane)	124-48-1	110	1000 (d)	1
Di-n-butyl phthalate	84-74-2	5700	10000 (c)	100
Di-n-octyl phthalate	117-84-0	1100	10000 (c)	100
1,2-Dichlorobenzene (*o*-Dichlorobenzene)	95-50-1	5100	10000 (c)	50
1,3-Dichlorobenzene (*m*-Dichlorobenzene)	541-73-1	5100	10000 (c)	100
1,4-Dichlorobenzene (*p*-Dichlorobenzene)	106-46-7	570	10000 (c)	100
3,3'-Dichlorobenzidine	91-94-1	2	6	100
1,1-Dichloroethane	75-34-3	570	1000 (d)	10

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1,2-Dichloroethane	107-06-2	6	24	1
1,1-Dichloroethene	75-35-4	8	150	10
1,2-Dichloroethene (trans)	156-60-5	1000 (d)	1000 (d)	50
1,2-Dichloroethene (cis)	156-59-2	79	1000 (d)	1
2,4-Dichlorophenol	120-83-2	170	3100	10
1,2-Dichloropropane	78-87-5	10	43	(r)
1,3-Dichloropropene(cis and trans)	542-75-6	4	5 (k)	1
Dieldrin	60-57-1	0.042	0.18	50
Diethyl phthalate	84-66-2	10000 (c)	10000 (c)	50
2,4-Dimethyl phenol	105-67-9	1100	10000 (c)	10
Dimethyl phthalate	131-11-3	10000 (c)	10000 (c)	50
2,4-Dinitrophenol	51-28-5	110	2100	10
Dinitrotoluene(2,4-/2,6-mixture)	25321-14-6	1 (l)	4 (l)	10 (l)
Endosulfan	115-29-7	340	6200	50
Endrin	72-20-8	17	310	50
Ethylbenzene	100-41-4	1000 (d)	1000 (d)	100
Fluoranthene	206-44-0	2300	10000 (c)	100
Fluorene	86-73-7	2300	10000 (c)	100
Heptachlor	76-44-8	0.15	0.65	50
Hexachlorobenzene	118-74-1	0.66 (f)	2	100
Hexachlorobutadiene	87-68-3	1	21	100
Hexachlorocyclopentadiene	77-47-4	400	7300	100
Hexachloroethane	67-72-1	6	100	100
Indeno(1,2,3-cd)pyrene	193-39-5	0.9	4	500
Isophorone	78-59-1	1100	10000 (c)	50
Lead	7439-92-1	400 (p)	600 (q)	(h)
Lindane (gamma BHC) (gamma HCH)	58-89-9	0.52	2.2	50
2-Methylphenol (*o*-creosol)	95-48-7	2800	10000 (c)	(r)
4-Methylphenol (*p*-creosol)	106-44-5	2800	10000 (c)	(r)
Methoxychlor	72-43-5	280	5200	50
Mercury	7439-97-6	14	270	(h)
4-Methyl-2-pentanone (MIBK)	108-10-1	1000 (d)	1000 (d)	50
Methylene chloride (Dichloromethane)	75-09-2	49	210	1
Naphthalene	91-20-3	230	4200	100
Nickel	7440-02-0	250	2400 (k) (n)	(h)
Nitrobenzene	98-95-3	28	520	10
N-Nitrosodiphenylamine	86-30-6	140	600	100
N-Nitrosodi-n-propylamine	621-64-7	0.66 (f)	0.66 (f)	10
PCBs (Polychlorinated biphenyls)	1336-36-3	0.49	2	50
Pentachlorophenol	87-86-5	6	24	100
Phenol	108-95-2	10000 (c)	10000 (c)	50

G-1739018

Pyrene	129-00-0	1700	10000 (c)	100
Selenium	7782-49-2	63	3100 (n)	(h)
Silver	7440-22-4	110	4100 (n)	(h)
Styrene	100-42-5	23	97	100
1,1,1,2-Tetrachloroethane	630-20-6	170	310	1
1,1,2,2-Tetrachloroethane	79-34-5	34	70 (k)	1
Tetrachloroethene (Tetrachloroethylene) (PCE)	127-18-4	4 (k)	6 (k)	1
Thallium	7440-28-0	2 (f)	2 (f)	(h)
Toluene	108-88-3	1000 (d)	1000 (d)	500
Toxaphene	8001-35-2	0.10 (k)	0.2 (k)	50
1,2,4-Trichlorobenzene	120-82-1	68	1200	100
1,1,1-Trichloroethane	71-55-6	210	1000 (d)	50
1,1,2-Trichloroethane	79-00-5	22	420	1
Trichloroethene (Trichloroethylene) (TCE)	79-01-6	23	54 (k)	1
2,4,5-Trichlorophenol	95-95-4	5600	10000 (c)	50
2,4,6-Trichlorophenol	88-06-2	62	270	10
Vanadium	7440-62-2	370	7100 (n)	(h)
Vinyl chloride	75-01-4	2	7	10
Xylenes (Total)	1330-20-7	410	1000 (d)	[10] 67 (s)
Zinc	7440-66-6	1500 (m)	1500 (m)	(h)

Footnotes:

(a) Criteria are health based using an incidental ingestion exposure pathway except where noted below.

(b) Criteria are subject to change based on site specific factors (e.g., aquifer classification, soil type, natural background, environmental impacts, etc.).

(c) Health based criterion exceeds the 10,000 mg/kg maximum for total organic contaminants.

(d) Health based criterion exceeds the 1000 mg/kg maximum for total volatile organic contaminants.

(e) Cleanup standard proposal was based on natural background.

(f) Health based criterion is lower than analytical limits; cleanup criterion based on practical quantitation level.

(g) Criterion based on the inhalation exposure pathway.

(h) The impact to ground water values for inorganic constituents will be developed based upon site specific chemical and physical parameters.

(i) Site specific determination required for SCC for the allergic contact dermatitis exposure pathway.

(j) Contaminant not regulated for this exposure pathway.

(k) Criteria based on inhalation exposure pathway, which yielded a more stringent criterion than the incidental ingestion exposure pathway.

(l) No criterion derived for this contaminant.

(m) Criterion based on ecological (phytotoxicity) effects.

(n) Level of the human health based criterion is such that evaluation for potential environmental impacts on a site by site basis is recommended.

(o) Level of the criterion is such that evaluation for potential acute exposure hazard is recommended.

(p)

6-1739018

Criterion based on the USEPA Integrated Exposure Uptake Biokinetic (IEUBK) model utilizing the default parameters. The concentration is considered to protect 95% of target population (children) at a blood lead level of 10 ug/dl.

(q) Criteria were derived from a model developed by the Society for Environmental Geochemistry and Health (SEGH) and were designed to be protective for adults in the workplace.

(r) Insufficient information available to calculate impact to ground water criteria.

(s) Criterion based on new drinking water standard.

To report an environmental incident impacting NJ, call the Toll-Free 24-Hour Hotline
1-877-WARNDEP / 1-877-927-6337

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P. O. Box 402
Trenton, NJ 08625-0402

Last Updated: September 29, 2015

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Sample Administration Receipt Documentation Log

Doc Log ID: 169240

Group Number(s): 1759018

Client: Eurofins QC

Delivery and Receipt Information

Delivery Method:	EQCL Drop Off	Arrival Timestamp:	11/30/2016 5:30
Number of Packages:	1	Number of Projects:	6

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Joseph Huber (7831) at 06:25 on 11/30/2016

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	2.2	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T : 717-656-2300
F : 717-656-2681
www.LancasterLabs.com

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mg**	milligram(s)
C	degrees Celsius	**mL**	milliliter(s)
cfu	colony forming units	**MPN**	Most Probable Number
CP Units	cobalt-chloroplatinate units	**N.D.**	none detected
F	degrees Fahrenheit	**ng**	nanogram(s)
g	gram(s)	**NTU**	nephelometric turbidity units
IU	International Units	**pg/L**	picogram/liter
kg	kilogram(s)	**RL**	Reporting Limit
L	liter(s)	**TNTC**	Too Numerous To Count
lb.	pound(s)	**µg**	microgram(s)
m3	cubic meter(s)	**µL**	microliter(s)
meq	milliequivalents	**umhos/cm**	micromhos/cm

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...
W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Additional Data Qualifiers

Qualifier	Definition
B	Detection in the Blank
Q0	LCS/LCSD Low
Q1	LCS/LCSD High
Q4	MS/MSD Out of Range
Q7	LCS/LCSD RPD
Q8	DUP RPD
Q9	MS/MSD RPD

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

WSP USA

Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

31401544.002 11.00

SGS Job Number: JD18939

Sampling Date: 01/12/21

Report to:

WSP USA

szois@lbgnj.com

ATTN: Spiros Zois

Total number of pages in report: 172

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Victoria Pushkova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Sample Summary

WSP USA

Job No: JD18939

Ridgewood Water, 579 Prospect Street, Glen Rock, NJ
Project No: 31401544.002 11.00

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JD18939-1	01/12/21	10:15	SZ	01/12/21	SO	Soil	S-10R
JD18939-2	01/12/21	10:30	SZ	01/12/21	SO	Soil	S-15R
JD18939-3	01/12/21	10:45	SZ	01/12/21	SO	Soil	S-18R

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	WSP USA	**Job No:**	JD18939
Site:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ	**Report Date**	1/19/2021 4:12:39 PM

On 01/12/2021, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.2 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD18939 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO **Batch ID:** OP31540

- All samples were extracted within the recommended method holding time.
- Sample(s) JD18961-8MS, JD18961-8MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, Hexachlorocyclopentadiene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, Hexachlorocyclopentadiene, Butyl benzyl phthalate, Di-n-butyl phthalate are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Recovery(s) for Phenanthrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MS/MSD for bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate, Di-n-butyl phthalate are outside control limits. Outside control limits due to matrix interference.
- JD18939-2 for 1,4-Dioxane: Associated CCV outside of control limits high, sample was ND.
- JD18939-1 for 1,4-Dioxane: Associated CCV outside of control limits high, sample was ND.
- JD18939-1 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- Matrix Spike Duplicate Recovery(s) for Benzo(a)anthracene, Chrysene, Fluoranthene, Phenanthrene, Pyrene are outside control limits.Outside control limits due to high level in sample relative to spike amount.
- JD18939-2 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD18939-2 for Di-n-octyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD18939-2 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD18939-3 for 1,4-Dioxane: Associated CCV outside of control limits high, sample was ND.
- JD18939-3 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD18939-3 for Di-n-octyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD18939-3 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD18939-1 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD18939-1 for Di-n-octyl phthalate: Associated CCV outside of control limits high, sample was ND.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO **Batch ID:** GN14813

- Sample(s) JD18877-7DUP were used as the QC samples for Solids, Percent.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD18939
Account: WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ
Collected: 01/12/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD18939-1	**S-10R**					
Acenaphthylene		46.5	37	19	ug/kg	SW846 8270E
Anthracene		45.6	37	23	ug/kg	SW846 8270E
Benzo(a)anthracene		218	37	10	ug/kg	SW846 8270E
Benzo(a)pyrene		213	37	17	ug/kg	SW846 8270E
Benzo(b)fluoranthene		260	37	16	ug/kg	SW846 8270E
Benzo(g,h,i)perylene		131	37	19	ug/kg	SW846 8270E
Benzo(k)fluoranthene		92.1	37	17	ug/kg	SW846 8270E
Carbazole		10.5 J	74	5.4	ug/kg	SW846 8270E
Chrysene		224	37	12	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene		35.2 J	37	16	ug/kg	SW846 8270E
Fluoranthene		333	37	17	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		135	37	17	ug/kg	SW846 8270E
Naphthalene		17.6 J	37	10	ug/kg	SW846 8270E
Phenanthrene		130	37	12	ug/kg	SW846 8270E
Pyrene		381	37	12	ug/kg	SW846 8270E
Total TIC, Semi-Volatile		160 J			ug/kg	
JD18939-2	**S-15R**					
Acenaphthene		102	41	14	ug/kg	SW846 8270E
Acenaphthylene		62.6	41	21	ug/kg	SW846 8270E
Anthracene		278	41	25	ug/kg	SW846 8270E
Benzo(a)anthracene		750	41	12	ug/kg	SW846 8270E
Benzo(a)pyrene		744	41	19	ug/kg	SW846 8270E
Benzo(b)fluoranthene		986	41	18	ug/kg	SW846 8270E
Benzo(g,h,i)perylene		511	41	21	ug/kg	SW846 8270E
Benzo(k)fluoranthene		302	41	19	ug/kg	SW846 8270E
1,1'-Biphenyl		11.2 J	83	5.7	ug/kg	SW846 8270E
Carbazole		105	83	6.0	ug/kg	SW846 8270E
Chrysene		853	41	13	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene		132	41	18	ug/kg	SW846 8270E
Dibenzofuran		58.5 J	83	17	ug/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		96.9	83	9.7	ug/kg	SW846 8270E
Fluoranthene		1620	41	18	ug/kg	SW846 8270E
Fluorene		130	41	19	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		523	41	19	ug/kg	SW846 8270E
2-Methylnaphthalene		35.5 J	41	9.3	ug/kg	SW846 8270E
Naphthalene		26.8 J	41	12	ug/kg	SW846 8270E
Phenanthrene		981	41	14	ug/kg	SW846 8270E
Pyrene		1480	41	13	ug/kg	SW846 8270E
Total TIC, Semi-Volatile		47560 J			ug/kg	

Summary of Hits

Job Number: JD18939
Account: WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ
Collected: 01/12/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD18939-3	**S-18R**					
Acenaphthene		18.8 J	45	15	ug/kg	SW846 8270E
Acenaphthylene		65.7	45	23	ug/kg	SW846 8270E
Anthracene		187	45	27	ug/kg	SW846 8270E
Benzo(a)anthracene		873	45	13	ug/kg	SW846 8270E
Benzo(a)pyrene		852	45	20	ug/kg	SW846 8270E
Benzo(b)fluoranthene		1040	45	20	ug/kg	SW846 8270E
Benzo(g,h,i)perylene		598	45	22	ug/kg	SW846 8270E
Benzo(k)fluoranthene		307	45	21	ug/kg	SW846 8270E
Carbazole		54.2 J	89	6.5	ug/kg	SW846 8270E
Chrysene		852	45	14	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene		155	45	20	ug/kg	SW846 8270E
Fluoranthene		1580	45	20	ug/kg	SW846 8270E
Fluorene		26.0 J	45	21	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		597	45	21	ug/kg	SW846 8270E
Phenanthrene		533	45	15	ug/kg	SW846 8270E
Pyrene		1570	45	14	ug/kg	SW846 8270E
Total TIC, Semi-Volatile		5030 J			ug/kg	

Sample Results

Report of Analysis

SGS LabLink@1090954 10:26 21-Jan-2021

Report of Analysis

Client Sample ID:	S-10R		
Lab Sample ID:	JD18939-1	**Date Sampled:**	01/12/21
Matrix:	SO - Soil	**Date Received:**	01/12/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.3
Project:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P98996.D	1	01/15/21 20:00	HSS	01/15/21 10:15	OP31540	E2P4412
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	74	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	32	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	66	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	40	ug/kg	
95-48-7	2-Methylphenol	ND	74	24	ug/kg	
	3&4-Methylphenol	ND	74	30	ug/kg	
88-75-5	2-Nitrophenol	ND	190	25	ug/kg	
100-02-7	4-Nitrophenol	ND	370	99	ug/kg	
87-86-5	Pentachlorophenol	ND	150	35	ug/kg	
108-95-2	Phenol	ND	74	19	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	25	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	22	ug/kg	
83-32-9	Acenaphthene	ND	37	13	ug/kg	
208-96-8	Acenaphthylene	46.5	37	19	ug/kg	
98-86-2	Acetophenone	ND	190	8.0	ug/kg	
120-12-7	Anthracene	45.6	37	23	ug/kg	
1912-24-9	Atrazine	ND	74	16	ug/kg	
56-55-3	Benzo(a)anthracene	218	37	10	ug/kg	
50-32-8	Benzo(a)pyrene	213	37	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	260	37	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	131	37	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	92.1	37	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	74	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	74	9.0	ug/kg	
92-52-4	1,1'-Biphenyl	ND	74	5.1	ug/kg	
100-52-7	Benzaldehyde	ND	190	9.2	ug/kg	
91-58-7	2-Chloronaphthalene	ND	74	8.8	ug/kg	
106-47-8	4-Chloroaniline	ND	190	13	ug/kg	
86-74-8	Carbazole	10.5	74	5.4	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-10R		
Lab Sample ID:	JD18939-1	**Date Sampled:**	01/12/21
Matrix:	SO - Soil	**Date Received:**	01/12/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.3
Project:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	74	15	ug/kg	
218-01-9	Chrysene	224	37	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	74	7.9	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	74	16	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	74	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	74	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	37	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	37	19	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	74	31	ug/kg	
123-91-1	1,4-Dioxane [a]	ND	37	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	35.2	37	16	ug/kg	J
132-64-9	Dibenzofuran	ND	74	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	74	6.0	ug/kg	
117-84-0	Di-n-octyl phthalate [a]	ND	74	9.2	ug/kg	
84-66-2	Diethyl phthalate	ND	74	7.9	ug/kg	
131-11-3	Dimethyl phthalate	ND	74	6.6	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	74	8.7	ug/kg	
206-44-0	Fluoranthene	333	37	17	ug/kg	
86-73-7	Fluorene	ND	37	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	74	9.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	370	15	ug/kg	
67-72-1	Hexachloroethane	ND	190	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	135	37	17	ug/kg	
78-59-1	Isophorone	ND	74	7.9	ug/kg	
91-57-6	2-Methylnaphthalene	ND	37	8.4	ug/kg	
88-74-4	2-Nitroaniline [a]	ND	190	8.7	ug/kg	
99-09-2	3-Nitroaniline	ND	190	9.3	ug/kg	
100-01-6	4-Nitroaniline	ND	190	9.6	ug/kg	
91-20-3	Naphthalene	17.6	37	10	ug/kg	J
98-95-3	Nitrobenzene	ND	74	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	74	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	14	ug/kg	
85-01-8	Phenanthrene	130	37	12	ug/kg	
129-00-0	Pyrene	381	37	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	9.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-10R		
Lab Sample ID:	JD18939-1	**Date Sampled:**	01/12/21
Matrix:	SO - Soil	**Date Received:**	01/12/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.3
Project:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	50%		12-101%
118-79-6	2,4,6-Tribromophenol	64%		10-127%
4165-60-0	Nitrobenzene-d5	69%		15-114%
321-60-8	2-Fluorobiphenyl	58%		22-104%
1718-51-0	Terphenyl-d14	75%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact/aldol-condensation	3.22	190	ug/kg	J
	Unknown PAH substance	15.58	160	ug/kg	J
	Total TIC, Semi-Volatile		160	ug/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1090954 10:26 21-Jan-2021

Report of Analysis

Client Sample ID: S-15R
Lab Sample ID: JD18939-2
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Date Sampled: 01/12/21
Date Received: 01/12/21
Percent Solids: 78.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P99000.D	1	01/15/21 21:44	HSS	01/15/21 10:15	OP31540	E2P4412
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	83	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	25	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	35	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	74	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	210	160	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	210	44	ug/kg	
95-48-7	2-Methylphenol	ND	83	26	ug/kg	
	3&4-Methylphenol	ND	83	34	ug/kg	
88-75-5	2-Nitrophenol	ND	210	27	ug/kg	
100-02-7	4-Nitrophenol	ND	410	110	ug/kg	
87-86-5	Pentachlorophenol	ND	170	39	ug/kg	
108-95-2	Phenol	ND	83	22	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	210	27	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	31	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	25	ug/kg	
83-32-9	Acenaphthene	102	41	14	ug/kg	
208-96-8	Acenaphthylene	62.6	41	21	ug/kg	
98-86-2	Acetophenone	ND	210	8.9	ug/kg	
120-12-7	Anthracene	278	41	25	ug/kg	
1912-24-9	Atrazine	ND	83	18	ug/kg	
56-55-3	Benzo(a)anthracene	750	41	12	ug/kg	
50-32-8	Benzo(a)pyrene	744	41	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	986	41	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	511	41	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	302	41	19	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	83	16	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	83	10	ug/kg	
92-52-4	1,1'-Biphenyl	11.2	83	5.7	ug/kg	J
100-52-7	Benzaldehyde	ND	210	10	ug/kg	
91-58-7	2-Chloronaphthalene	ND	83	9.8	ug/kg	
106-47-8	4-Chloroaniline	ND	210	15	ug/kg	
86-74-8	Carbazole	105	83	6.0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-15R		
Lab Sample ID:	JD18939-2	**Date Sampled:**	01/12/21
Matrix:	SO - Soil	**Date Received:**	01/12/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	78.8
Project:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	83	16	ug/kg	
218-01-9	Chrysene	853	41	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	83	8.8	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	83	18	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	83	15	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	83	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	41	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	41	21	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	83	34	ug/kg	
123-91-1	1,4-Dioxane [a]	ND	41	27	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	132	41	18	ug/kg	
132-64-9	Dibenzofuran	58.5	83	17	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	83	6.7	ug/kg	
117-84-0	Di-n-octyl phthalate [a]	ND	83	10	ug/kg	
84-66-2	Diethyl phthalate	ND	83	8.8	ug/kg	
131-11-3	Dimethyl phthalate	ND	83	7.4	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	96.9	83	9.7	ug/kg	
206-44-0	Fluoranthene	1620	41	18	ug/kg	
86-73-7	Fluorene	130	41	19	ug/kg	
118-74-1	Hexachlorobenzene	ND	83	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	41	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	410	16	ug/kg	
67-72-1	Hexachloroethane	ND	210	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	523	41	19	ug/kg	
78-59-1	Isophorone	ND	83	8.8	ug/kg	
91-57-6	2-Methylnaphthalene	35.5	41	9.3	ug/kg	J
88-74-4	2-Nitroaniline [a]	ND	210	9.8	ug/kg	
99-09-2	3-Nitroaniline	ND	210	10	ug/kg	
100-01-6	4-Nitroaniline	ND	210	11	ug/kg	
91-20-3	Naphthalene	26.8	41	12	ug/kg	J
98-95-3	Nitrobenzene	ND	83	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	83	12	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	15	ug/kg	
85-01-8	Phenanthrene	981	41	14	ug/kg	
129-00-0	Pyrene	1480	41	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	210	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: S-15R
Lab Sample ID: JD18939-2
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Date Sampled: 01/12/21
Date Received: 01/12/21
Percent Solids: 78.8

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	47%		12-101%
118-79-6	2,4,6-Tribromophenol	54%		10-127%
4165-60-0	Nitrobenzene-d5	58%		15-114%
321-60-8	2-Fluorobiphenyl	49%		22-104%
1718-51-0	Terphenyl-d14	57%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Bisnorabieta-pentaene	11.48	650	ug/kg	J
	Alkane	14.68	1200	ug/kg	J
	Unknown	15.13	580	ug/kg	J
	Unknown	15.34	350	ug/kg	J
	Alkane	15.62	4100	ug/kg	J
	Unknown	16.06	490	ug/kg	J
	Unknown	16.26	680	ug/kg	J
	Unknown	16.46	880	ug/kg	J
	Alkane	16.50	3100	ug/kg	J
	Unknown	16.56	1500	ug/kg	J
	Unknown	16.83	450	ug/kg	J
	Unknown	16.93	460	ug/kg	J
83-48-7	Stigmasterol	17.36	620	ug/kg	JN
	Alkane	17.43	440	ug/kg	J
	Sitosterol	17.69	5800	ug/kg	J
	Unknown	17.85	1200	ug/kg	J
	Unknown	17.96	3400	ug/kg	J
	Unknown	18.04	3100	ug/kg	J
	Unknown	18.17	450	ug/kg	J
	Unknown	18.25	5000	ug/kg	J
	Unknown	18.34	1800	ug/kg	J
	Stigmastenone	18.46	2000	ug/kg	J
	Unknown	18.68	1200	ug/kg	J
	Unknown	18.77	710	ug/kg	J
	Unknown	19.19	7400	ug/kg	J
	Total TIC, Semi-Volatile		47560	ug/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS LabLink@1090954 10:26 21-Jan-2021

Report of Analysis

Client Sample ID: S-18R
Lab Sample ID: JD18939-3
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Date Sampled: 01/12/21
Date Received: 01/12/21
Percent Solids: 70.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P99001.D	1	01/15/21 22:09	HSS	01/15/21 10:15	OP31540	E2P4412
Run #2							

	Initial Weight	Final Volume
Run #1	31.6 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	89	22	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	220	27	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	220	38	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	220	80	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	220	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	220	48	ug/kg	
95-48-7	2-Methylphenol	ND	89	29	ug/kg	
	3&4-Methylphenol	ND	89	37	ug/kg	
88-75-5	2-Nitrophenol	ND	220	30	ug/kg	
100-02-7	4-Nitrophenol	ND	450	120	ug/kg	
87-86-5	Pentachlorophenol	ND	180	42	ug/kg	
108-95-2	Phenol	ND	89	23	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	220	30	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	220	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	220	27	ug/kg	
83-32-9	Acenaphthene	18.8	45	15	ug/kg	J
208-96-8	Acenaphthylene	65.7	45	23	ug/kg	
98-86-2	Acetophenone	ND	220	9.6	ug/kg	
120-12-7	Anthracene	187	45	27	ug/kg	
1912-24-9	Atrazine	ND	89	19	ug/kg	
56-55-3	Benzo(a)anthracene	873	45	13	ug/kg	
50-32-8	Benzo(a)pyrene	852	45	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	1040	45	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	598	45	22	ug/kg	
207-08-9	Benzo(k)fluoranthene	307	45	21	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	89	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	89	11	ug/kg	
92-52-4	1,1'-Biphenyl	ND	89	6.1	ug/kg	
100-52-7	Benzaldehyde	ND	220	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	89	11	ug/kg	
106-47-8	4-Chloroaniline	ND	220	16	ug/kg	
86-74-8	Carbazole	54.2	89	6.5	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-18R		
Lab Sample ID:	JD18939-3	**Date Sampled:**	01/12/21
Matrix:	SO - Soil	**Date Received:**	01/12/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	70.8
Project:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	89	18	ug/kg	
218-01-9	Chrysene	852	45	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	89	9.6	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	89	19	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	89	16	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	89	14	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	45	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	45	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	89	37	ug/kg	
123-91-1	1,4-Dioxane [a]	ND	45	30	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	155	45	20	ug/kg	
132-64-9	Dibenzofuran	ND	89	18	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	89	7.3	ug/kg	
117-84-0	Di-n-octyl phthalate [a]	ND	89	11	ug/kg	
84-66-2	Diethyl phthalate	ND	89	9.5	ug/kg	
131-11-3	Dimethyl phthalate	ND	89	8.0	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	89	10	ug/kg	
206-44-0	Fluoranthene	1580	45	20	ug/kg	
86-73-7	Fluorene	26.0	45	21	ug/kg	J
118-74-1	Hexachlorobenzene	ND	89	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	45	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	450	18	ug/kg	
67-72-1	Hexachloroethane	ND	220	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	597	45	21	ug/kg	
78-59-1	Isophorone	ND	89	9.6	ug/kg	
91-57-6	2-Methylnaphthalene	ND	45	10	ug/kg	
88-74-4	2-Nitroaniline [a]	ND	220	11	ug/kg	
99-09-2	3-Nitroaniline	ND	220	11	ug/kg	
100-01-6	4-Nitroaniline	ND	220	12	ug/kg	
91-20-3	Naphthalene	ND	45	13	ug/kg	
98-95-3	Nitrobenzene	ND	89	17	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	89	13	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	220	16	ug/kg	
85-01-8	Phenanthrene	533	45	15	ug/kg	
129-00-0	Pyrene	1570	45	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	220	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-18R		
Lab Sample ID:	JD18939-3	**Date Sampled:**	01/12/21
Matrix:	SO - Soil	**Date Received:**	01/12/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	70.8
Project:	Ridgewood Water, 579 Prospect Street, Glen Rock, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	47%		12-101%
118-79-6	2,4,6-Tribromophenol	58%		10-127%
4165-60-0	Nitrobenzene-d5	60%		15-114%
321-60-8	2-Fluorobiphenyl	51%		22-104%
1718-51-0	Terphenyl-d14	63%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact/aldol-condensation	3.22	730	ug/kg	J
	Unknown	4.00	190	ug/kg	J
	Cyclopentaphenanthrenone	11.24	190	ug/kg	J
	Unknown PAH substance	15.61	1000	ug/kg	J
	Unknown	16.26	280	ug/kg	J
	Unknown	16.46	250	ug/kg	J
	Alkane	16.50	490	ug/kg	J
	Unknown	16.83	200	ug/kg	J
	Unknown	17.67	940	ug/kg	J
	Unknown	18.02	340	ug/kg	J
	Unknown	18.45	340	ug/kg	J
	Unknown	19.15	810	ug/kg	J
	Total TIC, Semi-Volatile		5030	ug/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

GW
SO

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

Page 1 of 1

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: JD 18939

Client / Reporting Information

Company Name: WSP USA
Street Address: 600 E Crescent Ave
City: USR State: NJ Zip: 07456
Project Contact: Jonas.Holliss@wsp.com E-mail:
Phone #: 201-739-2367
Sampler(s) Name(s): Spiros Zois Phone #: 201-324-6594

Project Information

Project Name: Ridgewood Water Prospect Street Soil
Street: Prospect St
City: Glen Rock State: NJ
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (If different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis

ABB270TCL20+

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
1	S-10R		1/12/21	1015	SZ	G	GW	1					1				X
2	S-15R			1030													B10
3	S-18R			1045													

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Labilink * Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [X] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [X] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASSESSMENT 313-DP
LABEL VERIFICATION

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:
1		1/12/21 1400	1
2		1/12/21 1706	2
3			3
4			4
5			5

Custody Seal # | Intact | Not Intact | Preserved where applicable | Absent | Therm. ID: | On Ice | Cooler Temp. °C: X 3.7 CP

EHSA-QAC-0023-02-FORM-Dayton - Standard COC.xlsx

5.1 5

JD18939: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD18939 **Client:** WSP USA **Project:** RIDGEWOOD WATER

Date / Time Received: 1/12/2021 5:06:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.7);

Cooler Temps (Corrected) °C: Cooler 1: (3.2);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD18939: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

WSP USA

Job No: JD18939

Ridgewood Water, 579 Prospect Street, Glen Rock, NJ
Project No: 31401544.002 11.00

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD18939-1	Collected: 12-JAN-21 10:15 By: SZ		Received: 12-JAN-21 By: JP			
S-10R						
JD18939-1	SM2540 G 18TH ED MOD.	13-JAN-21 16:37	BG			SOL104
JD18939-1	SW846 8270E	15-JAN-21 20:00	HSS	15-JAN-21	BB	AB8270TCL20+
JD18939-2	Collected: 12-JAN-21 10:30 By: SZ		Received: 12-JAN-21 By: JP			
S-15R						
JD18939-2	SM2540 G 18TH ED MOD.	13-JAN-21 16:37	BG			SOL104
JD18939-2	SW846 8270E	15-JAN-21 21:44	HSS	15-JAN-21	BB	AB8270TCL20+
JD18939-3	Collected: 12-JAN-21 10:45 By: SZ		Received: 12-JAN-21 By: JP			
S-18R						
JD18939-3	SM2540 G 18TH ED MOD.	13-JAN-21 16:37	BG			SOL104
JD18939-3	SW846 8270E	15-JAN-21 22:09	HSS	15-JAN-21	BB	AB8270TCL20+

SGS Internal Chain of Custody

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ
Received: 01/12/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD18939-1.1	Manish Kewalramani	Secured Storage	01/12/21 21:12	Return to Storage
JD18939-1.1	Secured Storage	Benjamin Gaines	01/13/21 09:19	Retrieve from Storage
JD18939-1.1	Benjamin Gaines	Secured Staging Area	01/13/21 09:19	Return to Storage
JD18939-1.1	Secured Staging Area	Benjamin Gaines	01/13/21 09:20	Retrieve from Storage
JD18939-1.1	Benjamin Gaines	Secured Storage	01/13/21 13:04	Return to Storage
JD18939-1.1	Tyler Strong	Secured Staging Area	01/14/21 19:20	Return to Storage
Stage				
JD18939-1.1	Secured Staging Area	Chatiyah Canaday	01/15/21 08:26	Retrieve from Storage
JD18939-1.1	Chatiyah Canaday	Secured Storage	01/15/21 14:39	Return to Storage
JD18939-1.1.1	Chatiyah Canaday	Organics Prep	01/15/21 08:42	Extract from JD18939-1.1
JD18939-1.1.1	Organics Prep	Brian Bass	01/15/21 14:23	Extract from JD18939-1.1
JD18939-1.1.1	Brian Bass	Extract Storage	01/15/21 14:23	Return to Storage
JD18939-1.1.1	Extract Storage	Henny Salim	01/15/21 15:06	Retrieve from Storage
JD18939-1.1.1	Henny Salim	GCMS2P	01/15/21 15:06	Load on Instrument
JD18939-1.1.1	GCMS2P	Henny Salim	01/19/21 17:00	Unload from Instrument
JD18939-1.1.1	Henny Salim	Extract Freezer	01/19/21 17:00	Return to Storage
JD18939-2.1	Manish Kewalramani	Secured Storage	01/12/21 21:12	Return to Storage
JD18939-2.1	Secured Storage	Benjamin Gaines	01/13/21 09:19	Retrieve from Storage
JD18939-2.1	Benjamin Gaines	Secured Staging Area	01/13/21 09:19	Return to Storage
JD18939-2.1	Secured Staging Area	Benjamin Gaines	01/13/21 09:20	Retrieve from Storage
JD18939-2.1	Benjamin Gaines	Secured Storage	01/13/21 13:04	Return to Storage
JD18939-2.1	Tyler Strong	Secured Staging Area	01/14/21 19:20	Return to Storage
Stage				
JD18939-2.1	Secured Staging Area	Chatiyah Canaday	01/15/21 08:26	Retrieve from Storage
JD18939-2.1	Chatiyah Canaday	Secured Storage	01/15/21 14:39	Return to Storage
JD18939-2.1.1	Chatiyah Canaday	Organics Prep	01/15/21 08:42	Extract from JD18939-2.1
JD18939-2.1.1	Organics Prep	Brian Bass	01/15/21 14:23	Extract from JD18939-2.1
JD18939-2.1.1	Brian Bass	Extract Storage	01/15/21 14:23	Return to Storage
JD18939-2.1.1	Extract Storage	Henny Salim	01/15/21 15:06	Retrieve from Storage
JD18939-2.1.1	Henny Salim	GCMS2P	01/15/21 15:06	Load on Instrument
JD18939-2.1.1	GCMS2P	Henny Salim	01/19/21 17:00	Unload from Instrument
JD18939-2.1.1	Henny Salim	Extract Freezer	01/19/21 17:00	Return to Storage
JD18939-3.1	Manish Kewalramani	Secured Storage	01/12/21 21:12	Return to Storage
JD18939-3.1	Secured Storage	Benjamin Gaines	01/13/21 09:19	Retrieve from Storage
JD18939-3.1	Benjamin Gaines	Secured Staging Area	01/13/21 09:19	Return to Storage
JD18939-3.1	Secured Staging Area	Benjamin Gaines	01/13/21 09:20	Retrieve from Storage
JD18939-3.1	Benjamin Gaines	Secured Storage	01/13/21 13:04	Return to Storage
JD18939-3.1	Tyler Strong	Secured Staging Area	01/14/21 19:20	Return to Storage
Stage				
JD18939-3.1	Secured Staging Area	Chatiyah Canaday	01/15/21 08:26	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ
Received: 01/12/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD18939-3.1	Chatiyah Canaday	Secured Storage	01/15/21 14:39	Return to Storage
JD18939-3.1.1	Chatiyah Canaday	Organics Prep	01/15/21 08:42	Extract from JD18939-3.1
JD18939-3.1.1	Organics Prep	Brian Bass	01/15/21 14:23	Extract from JD18939-3.1
JD18939-3.1.1	Brian Bass	Extract Storage	01/15/21 14:23	Return to Storage
JD18939-3.1.1	Extract Storage	Henny Salim	01/15/21 15:06	Retrieve from Storage
JD18939-3.1.1	Henny Salim	GCMS2P	01/15/21 15:06	Load on Instrument
JD18939-3.1.1	GCMS2P	Henny Salim	01/19/21 17:00	Unload from Instrument
JD18939-3.1.1	Henny Salim	Extract Freezer	01/19/21 17:00	Return to Storage

MS Semi-volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-MB1	2P98985.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	28	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	36	ug/kg	
95-48-7	2-Methylphenol	ND	67	21	ug/kg	
	3&4-Methylphenol	ND	67	27	ug/kg	
88-75-5	2-Nitrophenol	ND	170	22	ug/kg	
100-02-7	4-Nitrophenol	ND	330	89	ug/kg	
87-86-5	Pentachlorophenol	ND	130	31	ug/kg	
108-95-2	Phenol	ND	67	17	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	25	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
98-86-2	Acetophenone	ND	170	7.2	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
1912-24-9	Atrazine	ND	67	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	8.1	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	7.9	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	67	4.8	ug/kg	
105-60-2	Caprolactam	ND	67	13	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	14	ug/kg	

Method Blank Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-MB1	2P98985.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	67	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	10	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	28	ug/kg	
123-91-1	1,4-Dioxane	ND	33	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
132-64-9	Dibenzofuran	ND	67	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	5.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	8.3	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	5.9	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.8	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	13	ug/kg	
67-72-1	Hexachloroethane	ND	170	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
78-59-1	Isophorone	ND	67	7.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	33	7.5	ug/kg	
88-74-4	2-Nitroaniline	ND	170	7.9	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.3	ug/kg	
100-01-6	4-Nitroaniline	ND	170	8.6	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
98-95-3	Nitrobenzene	ND	67	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	9.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	12	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.5	ug/kg	

Method Blank Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-MB1	2P98985.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	71%	7-101%
4165-62-2	Phenol-d5	71%	12-101%
118-79-6	2,4,6-Tribromophenol	79%	10-127%
4165-60-0	Nitrobenzene-d5	90%	15-114%
321-60-8	2-Fluorobiphenyl	85%	22-104%
1718-51-0	Terphenyl-d14	84%	23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact	1.90	340	ug/kg	J
	System artifact/aldol-condensation	3.21	210	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-BS1	2P98987.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
OP31540-BSD	2P98988.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	1670	1020	61	1030	62	1	26-121/16
59-50-7	4-Chloro-3-methyl phenol	1670	1130	68	1120	67	1	26-138/17
120-83-2	2,4-Dichlorophenol	1670	1100	66	1110	67	1	26-130/19
105-67-9	2,4-Dimethylphenol	1670	1190	71	1200	72	1	28-144/18
51-28-5	2,4-Dinitrophenol	3330	2390	72	2340	70	2	31-146/21
534-52-1	4,6-Dinitro-o-cresol	1670	1090	65	1080	65	1	22-150/20
95-48-7	2-Methylphenol	1670	1020	61	1000	60	2	23-128/20
	3&4-Methylphenol	1670	982	59	960	58	2	24-133/25
88-75-5	2-Nitrophenol	1670	1060	64	1070	64	1	29-137/20
100-02-7	4-Nitrophenol	1670	1390	83	1350	81	3	21-144/23
87-86-5	Pentachlorophenol	1670	973	58	1050	63	8	24-152/22
108-95-2	Phenol	1670	1060	64	1050	63	1	40-101/22
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1210	73	1210	73	0	30-136/22
95-95-4	2,4,5-Trichlorophenol	1670	1230	74	1220	73	1	26-137/20
88-06-2	2,4,6-Trichlorophenol	1670	1170	70	1180	71	1	28-137/21
83-32-9	Acenaphthene	1670	1150	69	1160	70	1	24-129/16
208-96-8	Acenaphthylene	1670	1120	67	1110	67	1	25-130/17
98-86-2	Acetophenone	1670	1140	68	1140	68	0	44-100/24
120-12-7	Anthracene	1670	1120	67	1140	68	2	28-131/18
1912-24-9	Atrazine	1670	1300	78	1270	76	2	17-165/19
56-55-3	Benzo(a)anthracene	1670	1100	66	1090	65	1	30-130/20
50-32-8	Benzo(a)pyrene	1670	1160	70	1180	71	2	27-139/20
205-99-2	Benzo(b)fluoranthene	1670	1170	70	1260	76	7	32-133/21
191-24-2	Benzo(g,h,i)perylene	1670	1120	67	1140	68	2	24-141/23
207-08-9	Benzo(k)fluoranthene	1670	1210	73	1130	68	7	26-135/21
101-55-3	4-Bromophenyl phenyl ether	1670	1090	65	1110	67	2	25-137/19
85-68-7	Butyl benzyl phthalate	1670	1120	67	1110	67	1	28-142/23
92-52-4	1,1'-Biphenyl	1670	1210	73	1220	73	1	22-129/17
100-52-7	Benzaldehyde	1670	982	59	928	56	6	4-116/23
91-58-7	2-Chloronaphthalene	1670	1170	70	1180	71	1	22-126/20
106-47-8	4-Chloroaniline	1670	557	33	601	36	8	8-85/59
86-74-8	Carbazole	1670	1150	69	1140	68	1	29-135/18
105-60-2	Caprolactam	1670	1080	65	1030	62	5	21-138/20
218-01-9	Chrysene	1670	1030	62	1020	61	1	29-127/20
111-91-1	bis(2-Chloroethoxy)methane	1670	1010	61	1030	62	2	23-128/19
111-44-4	bis(2-Chloroethyl)ether	1670	992	60	1030	62	4	28-121/23

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-BS1	2P98987.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
OP31540-BSD	2P98988.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
108-60-1	2,2'-Oxybis(1-chloropropane)	1670	1120	67	1110	67	1	25-147/18
7005-72-3	4-Chlorophenyl phenyl ether	1670	1190	71	1200	72	1	24-133/20
121-14-2	2,4-Dinitrotoluene	1670	1240	74	1230	74	1	31-135/20
606-20-2	2,6-Dinitrotoluene	1670	1230	74	1210	73	2	31-138/19
91-94-1	3,3'-Dichlorobenzidine	3330	1620	49	1800	54	11	16-110/41
123-91-1	1,4-Dioxane	1670	965	58	983	59	2	6-81/34
53-70-3	Dibenzo(a,h)anthracene	1670	1110	67	1130	68	2	24-135/23
132-64-9	Dibenzofuran	1670	1240	74	1240	74	0	26-133/17
84-74-2	Di-n-butyl phthalate	1670	1190	71	1210	73	2	27-141/24
117-84-0	Di-n-octyl phthalate	1670	1270	76	1310	79	3	28-143/21
84-66-2	Diethyl phthalate	1670	1280	77	1280	77	0	26-135/25
131-11-3	Dimethyl phthalate	1670	1200	72	1190	71	1	26-130/19
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1170	70	1160	70	1	44-122/21
206-44-0	Fluoranthene	1670	1190	71	1180	71	1	31-134/23
86-73-7	Fluorene	1670	1230	74	1230	74	0	26-136/18
118-74-1	Hexachlorobenzene	1670	1140	68	1160	70	2	22-136/19
87-68-3	Hexachlorobutadiene	1670	1290	77	1340	80	4	18-137/18
77-47-4	Hexachlorocyclopentadiene	3330	2170	65	2280	68	5	22-131/21
67-72-1	Hexachloroethane	1670	1090	65	1090	65	0	19-121/25
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1230	74	1240	74	1	26-137/25
78-59-1	Isophorone	1670	1150	69	1160	70	1	29-128/25
91-57-6	2-Methylnaphthalene	1670	1260	76	1290	77	2	28-132/16
88-74-4	2-Nitroaniline	1670	1580	95	1570	94	1	16-154/18
99-09-2	3-Nitroaniline	1670	894	54	947	57	6	20-105/62
100-01-6	4-Nitroaniline	1670	1220	73	1180	71	3	30-134/21
91-20-3	Naphthalene	1670	1150	69	1160	70	1	26-127/19
98-95-3	Nitrobenzene	1670	1260	76	1280	77	2	21-130/19
621-64-7	N-Nitroso-di-n-propylamine	1670	1130	68	1130	68	0	27-124/26
86-30-6	N-Nitrosodiphenylamine	1670	1060	64	1050	63	1	27-133/19
85-01-8	Phenanthrene	1670	1130	68	1140	68	1	26-131/19
129-00-0	Pyrene	1670	1060	64	1050	63	1	30-131/24
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1230	74	1270	76	3	8-129/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-BS1	2P98987.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
OP31540-BSD	2P98988.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	65%	65%	7-101%
4165-62-2	Phenol-d5	67%	66%	12-101%
118-79-6	2,4,6-Tribromophenol	69%	69%	10-127%
4165-60-0	Nitrobenzene-d5	82%	84%	15-114%
321-60-8	2-Fluorobiphenyl	76%	78%	22-104%
1718-51-0	Terphenyl-d14	70%	70%	23-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-MS	2P99002.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
OP31540-MSD	2P99003.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
JD18961-8	2P99004.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
JD18961-8	2P99009.D	10	01/19/21	KLS	01/15/21	OP31540	E2P4413

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Compound	JD18961-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		1840	765	41	1860	946	51	21	10-129/65
59-50-7	4-Chloro-3-methyl phenol	ND		1840	860	47	1860	1100	59	24	10-147/63
120-83-2	2,4-Dichlorophenol	ND		1840	763	41	1860	1060	57	33	10-140/64
105-67-9	2,4-Dimethylphenol	ND		1840	902	49	1860	1120	60	22	10-151/64
51-28-5	2,4-Dinitrophenol	ND		3690	296	8* [a]	3710	277	7* [a]	7	10-127/71
534-52-1	4,6-Dinitro-o-cresol	ND		1840	144	8* [a]	1860	133	7* [a]	8	10-148/77
95-48-7	2-Methylphenol	ND		1840	791	43	1860	986	53	22	10-136/62
	3&4-Methylphenol	ND		1840	787	43	1860	1010	54	25	10-137/63
88-75-5	2-Nitrophenol	ND		1840	757	41	1860	931	50	21	10-147/69
100-02-7	4-Nitrophenol	ND		1840	921	50	1860	935	50	2	10-157/64
87-86-5	Pentachlorophenol	ND		1840	729	40	1860	954	51	27	10-164/65
108-95-2	Phenol	ND		1840	827	45	1860	995	54	18	3-110/61
58-90-2	2,3,4,6-Tetrachlorophenol	ND		1840	799	43	1860	980	53	20	10-146/67
95-95-4	2,4,5-Trichlorophenol	ND		1840	764	41	1860	911	49	18	10-144/66
88-06-2	2,4,6-Trichlorophenol	ND		1840	747	41	1860	959	52	25	10-148/67
83-32-9	Acenaphthene	1570		1840	2440	47	1860	2890	71	17	10-145/63
208-96-8	Acenaphthylene	4550 [b]		1840	7190	54	1860	7850	89	9	10-144/59
98-86-2	Acetophenone	ND		1840	894	48	1860	1160	62	26	5-120/56
120-12-7	Anthracene	5570 [b]		1840	8980	47	1860	10100	107	12	10-153/66
1912-24-9	Atrazine	ND		1840	941	51	1860	1050	57	11	10-163/50
56-55-3	Benzo(a)anthracene	10400 [b]		1840	13600	38	1860	15900	162* [c]	16	10-157/71
50-32-8	Benzo(a)pyrene	9440 [b]		1840	11600	43	1860	12100	70	4	10-164/67
205-99-2	Benzo(b)fluoranthene	10100 [b]		1840	14100	11	1860	15100	65	7	10-154/69
191-24-2	Benzo(g,h,i)perylene	5470 [b]		1840	6160	98	1860	5460	60	12	10-156/64
207-08-9	Benzo(k)fluoranthene	3280 [b]		1840	2800	20	1860	3370	51	18	10-156/62
101-55-3	4-Bromophenyl phenyl ether	ND		1840	807	44	1860	954	51	17	10-145/57
85-68-7	Butyl benzyl phthalate	ND		1840	913	50	1860	142000	7651* [a]	197* [a]	10-151/57
92-52-4	1,1'-Biphenyl	379		1840	1220	46	1860	1410	56	14	10-140/53
100-52-7	Benzaldehyde	ND		1840	890	48	1860	1040	56	16	10-135/56
91-58-7	2-Chloronaphthalene	ND		1840	751	41	1860	906	49	19	10-134/58
106-47-8	4-Chloroaniline	ND		1840	391	21	1860	419	23	7	10-97/62
86-74-8	Carbazole	2150		1840	3160	55	1860	3740	86	17	10-145/53
105-60-2	Caprolactam	ND		1840	1050	57	1860	1330	72	24	10-156/53
218-01-9	Chrysene	10100 [b]		1840	12300	60	1860	14100	156* [c]	14	10-148/70
111-91-1	bis(2-Chloroethoxy)methane	ND		1840	762	41	1860	967	52	24	10-130/57
111-44-4	bis(2-Chloroethyl)ether	ND		1840	772	42	1860	921	50	18	10-125/60

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-MS	2P99002.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
OP31540-MSD	2P99003.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
JD18961-8	2P99004.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
JD18961-8	2P99009.D	10	01/19/21	KLS	01/15/21	OP31540	E2P4413

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Compound	JD18961-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	2,2'-Oxybis(1-chloropropane)	ND		1840	871	47	1860	1100	59	23	10-151/58
7005-72-3	4-Chlorophenyl phenyl ether	ND		1840	819	44	1860	961	52	16	10-141/56
121-14-2	2,4-Dinitrotoluene	ND		1840	945	51	1860	1020	55	8	10-153/57
606-20-2	2,6-Dinitrotoluene	ND		1840	683	37	1860	835	45	20	10-147/59
91-94-1	3,3'-Dichlorobenzidine	ND		3690	794	22	3710	595	16	29	10-133/74
123-91-1	1,4-Dioxane	ND		1840	809	44	1860	798	43	1	10-81/57
53-70-3	Dibenzo(a,h)anthracene	1520		1840	2460	51	1860	2410	48	2	10-146/63
132-64-9	Dibenzofuran	1850		1840	2820	53	1860	3270	77	15	10-148/50
84-74-2	Di-n-butyl phthalate	ND		1840	806	44	1860	7720	416* [a]	162* [a]	10-152/59
117-84-0	Di-n-octyl phthalate	ND		1840	840	46	1860	1020	55	19	10-155/57
84-66-2	Diethyl phthalate	ND		1840	774	42	1860	928	50	18	10-145/56
131-11-3	Dimethyl phthalate	ND		1840	730	40	1860	902	49	21	10-138/56
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1840	931	50	1860	1780	96	63* [a]	6-140/61
206-44-0	Fluoranthene	22800 [b]		1840	24700	81	1860	29400	334* [c]	17	10-171/80
86-73-7	Fluorene	5010 [b]		1840	7570	80	1860	8510	130	12	10-148/65
118-74-1	Hexachlorobenzene	ND		1840	801	43	1860	963	52	18	10-143/57
87-68-3	Hexachlorobutadiene	ND		1840	897	49	1860	1100	59	20	10-141/60
77-47-4	Hexachlorocyclopentadiene	ND		3690	29.6	1* [a]	3710	39.3	1* [a]	28	10-135/81
67-72-1	Hexachloroethane	ND		1840	514	28	1860	554	30	7	10-124/62
193-39-5	Indeno(1,2,3-cd)pyrene	5420 [b]		1840	6570	94	1860	6130	70	7	10-152/65
78-59-1	Isophorone	ND		1840	884	48	1860	1080	58	20	10-138/59
91-57-6	2-Methylnaphthalene	4030 [b]		1840	7000	84	1860	7840	128	11	10-150/51
88-74-4	2-Nitroaniline	ND		1840	1060	57	1860	1260	68	17	10-161/50
99-09-2	3-Nitroaniline	ND		1840	525	28	1860	551	30	5	10-126/54
100-01-6	4-Nitroaniline	ND		1840	613	33	1860	584	31	5	10-143/58
91-20-3	Naphthalene	4920 [b]		1840	7590	50	1860	8980	125	17	10-147/64
98-95-3	Nitrobenzene	ND		1840	945	51	1860	1100	59	15	10-143/58
621-64-7	N-Nitroso-di-n-propylamine	ND		1840	886	48	1860	1090	59	21	10-133/59
86-30-6	N-Nitrosodiphenylamine	ND		1840	1030	56	1860	1290	70	22	10-150/56
85-01-8	Phenanthrene	29300 [b]		1840	30000	195* [c]	1860	33900	404* [c]	12	10-162/81
129-00-0	Pyrene	24900 [b]		1840	28100	54	1860	34000	372* [c]	19	10-166/77
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		1840	734	40	1860	886	48	19	10-130/56

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP31540-MS	2P99002.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
OP31540-MSD	2P99003.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
JD18961-8	2P99004.D	1	01/15/21	HSS	01/15/21	OP31540	E2P4412
JD18961-8	2P99009.D	10	01/19/21	KLS	01/15/21	OP31540	E2P4413

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD18939-1, JD18939-2, JD18939-3

CAS No.	Surrogate Recoveries	MS	MSD	JD18961-8	JD18961-8	Limits
367-12-4	2-Fluorophenol	57%	55%	54%	38%	7-101%
4165-62-2	Phenol-d5	58%	55%	53%	39%	12-101%
118-79-6	2,4,6-Tribromophenol	63%	61%	57%	43%	10-127%
4165-60-0	Nitrobenzene-d5	70%	65%	61%	50%	15-114%
321-60-8	2-Fluorobiphenyl	57%	54%	52%	46%	22-104%
1718-51-0	Terphenyl-d14	64%	65%	59%	46%	23-121%

(a) Outside control limits due to matrix interference.
(b) Result is from Run #2.
(c) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample: E2P4365-DFTPP
Lab File ID: 2P97989.D
Instrument ID: GCMS2P
Injection Date: 12/03/20
Injection Time: 16:26

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	172707	49.4		Pass
68	Less than 2.0% of mass 69	693	0.20	(0.34) [a]	Pass
69	Mass 69 relative abundance	202973	58.1		Pass
70	Less than 2.0% of mass 69	833	0.24	(0.41) [a]	Pass
127	40.0 - 60.0% of mass 198	188917	54.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	349431	100.0		Pass
199	5.0 - 9.0% of mass 198	23643	6.77		Pass
275	10.0 - 30.0% of mass 198	100072	28.6		Pass
365	1.0 - 100.0% of mass 198	14706	4.21		Pass
441	Present, but less than mass 443	55120	15.8	(89.7) [b]	Pass
442	40.0 - 100.0% of mass 198	321947	92.1		Pass
443	17.0 - 23.0% of mass 442	61429	17.6	(19.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P4365-IC4365	2P97990.D	12/03/20	16:46	00:20	Initial cal 1
E2P4365-IC4365	2P97991.D	12/03/20	17:14	00:48	Initial cal 2
E2P4365-IC4365	2P97992.D	12/03/20	17:40	01:14	Initial cal 5
E2P4365-IC4365	2P97993.D	12/03/20	18:07	01:41	Initial cal 10
E2P4365-IC4365	2P97994.D	12/03/20	18:35	02:09	Initial cal 25
E2P4365-ICC4365	2P97995.D	12/03/20	19:01	02:35	Initial cal 50
E2P4365-IC4365	2P97996.D	12/03/20	19:27	03:01	Initial cal 80
E2P4365-IC4365	2P97997.D	12/03/20	19:54	03:28	Initial cal 100
E2P4365-ICV4365	2P97998.D	12/03/20	20:20	03:54	Initial cal verification 50
E2P4365-ICV4365	2P97999.D	12/03/20	20:46	04:20	Initial cal verification 50
E2P4365-ICV4365	2P98000.D	12/03/20	21:12	04:46	Initial cal verification 50
E2P4365-ICV4365	2P98001.D	12/03/20	21:38	05:12	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample: E2P4366-DFTPP
Lab File ID: 2P98002.D
Instrument ID: GCMS2P
Injection Date: 12/03/20
Injection Time: 22:01

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	154226	50.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	184741	60.3		Pass
70	Less than 2.0% of mass 69	754	0.25	(0.41) [a]	Pass
127	40.0 - 60.0% of mass 198	162651	53.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	306176	100.0		Pass
199	5.0 - 9.0% of mass 198	20795	6.79		Pass
275	10.0 - 30.0% of mass 198	87875	28.7		Pass
365	1.0 - 100.0% of mass 198	12425	4.06		Pass
441	Present, but less than mass 443	45362	14.8	(89.1) [b]	Pass
442	40.0 - 100.0% of mass 198	256576	83.8		Pass
443	17.0 - 23.0% of mass 442	50887	16.6	(19.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P4366-IC4366	2P98003.D	12/03/20	22:13	00:12	Initial cal 100
E2P4366-IC4366	2P98004.D	12/03/20	22:39	00:38	Initial cal 80
E2P4366-ICC4366	2P98005.D	12/03/20	23:05	01:04	Initial cal 50
E2P4366-IC4366	2P98006.D	12/03/20	23:31	01:30	Initial cal 25
E2P4366-IC4366	2P98007.D	12/03/20	23:57	01:56	Initial cal 10
E2P4366-IC4366	2P98008.D	12/04/20	00:23	02:22	Initial cal 5
E2P4366-IC4366	2P98009.D	12/04/20	00:50	02:49	Initial cal 2
E2P4366-IC4366	2P98010.D	12/04/20	01:16	03:15	Initial cal 1

Instrument Performance Check (DFTPP)

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample: E2P4367-DFTPP
Lab File ID: 2P98012.D
Instrument ID: GCMS2P
Injection Date: 12/04/20
Injection Time: 02:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	144561	50.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	165703	58.3		Pass
70	Less than 2.0% of mass 69	707	0.25	(0.43) [a]	Pass
127	40.0 - 60.0% of mass 198	149694	52.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	284181	100.0		Pass
199	5.0 - 9.0% of mass 198	19068	6.71		Pass
275	10.0 - 30.0% of mass 198	80880	28.5		Pass
365	1.0 - 100.0% of mass 198	12363	4.35		Pass
441	Present, but less than mass 443	40991	14.4	(93.4) [b]	Pass
442	40.0 - 100.0% of mass 198	240517	84.6		Pass
443	17.0 - 23.0% of mass 442	43883	15.4	(18.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P4367-IC4367	2P98013.D	12/04/20	02:16	00:11	Initial cal 100
E2P4367-IC4367	2P98014.D	12/04/20	02:42	00:37	Initial cal 80
E2P4367-ICC4367	2P98015.D	12/04/20	03:08	01:03	Initial cal 50
E2P4367-IC4367	2P98016.D	12/04/20	03:34	01:29	Initial cal 25
E2P4367-IC4367	2P98017.D	12/04/20	04:00	01:55	Initial cal 10
E2P4367-IC4367	2P98018.D	12/04/20	04:26	02:21	Initial cal 5
E2P4367-IC4367	2P98019.D	12/04/20	04:53	02:48	Initial cal 2
E2P4367-IC4367	2P98020.D	12/04/20	05:19	03:14	Initial cal 1
E2P4367-ICV4367	2P98021.D	12/04/20	05:45	03:40	Initial cal verification 50
E2P4367-ICV4367	2P98022.D	12/04/20	06:11	04:06	Initial cal verification 50
E2P4367-ICV4366	2P98023A.D	12/04/20	06:37	04:32	Initial cal verification 50
E2P4367-ICV4367	2P98023.D	12/04/20	06:37	04:32	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample: E2P4412-DFTPP
Lab File ID: 2P98981.D
Instrument ID: GCMS2P
Injection Date: 01/15/21
Injection Time: 12:35

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	310076	52.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	363456	61.2		Pass
70	Less than 2.0% of mass 69	1554	0.26	(0.43) [a]	Pass
127	40.0 - 60.0% of mass 198	315594	53.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	594098	100.0		Pass
199	5.0 - 9.0% of mass 198	38546	6.49		Pass
275	10.0 - 30.0% of mass 198	162015	27.3		Pass
365	1.0 - 100.0% of mass 198	25614	4.31		Pass
441	Present, but less than mass 443	84918	14.3	(88.7) [b]	Pass
442	40.0 - 100.0% of mass 198	497237	83.7		Pass
443	17.0 - 23.0% of mass 442	95691	16.1	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E2P4412-CC4365	2P98982.D	01/15/21	12:45	00:10	Continuing cal 25
E2P4412-CC4366	2P98983.D	01/15/21	13:11	00:36	Continuing cal 25
E2P4412-CC4367	2P98984.D	01/15/21	13:37	01:02	Continuing cal 25
OP31540-MB1	2P98985.D	01/15/21	14:46	02:11	Method Blank
OP31540-BS1	2P98987.D	01/15/21	15:41	03:06	Blank Spike
OP31540-BSD	2P98988.D	01/15/21	16:33	03:58	Blank Spike Duplicate
ZZZZZZ	2P98989.D	01/15/21	16:59	04:24	(unrelated sample)
ZZZZZZ	2P98990.D	01/15/21	17:24	04:49	(unrelated sample)
ZZZZZZ	2P98991.D	01/15/21	17:50	05:15	(unrelated sample)
ZZZZZZ	2P98992.D	01/15/21	18:16	05:41	(unrelated sample)
ZZZZZZ	2P98993.D	01/15/21	18:42	06:07	(unrelated sample)
ZZZZZZ	2P98994.D	01/15/21	19:08	06:33	(unrelated sample)
ZZZZZZ	2P98995.D	01/15/21	19:34	06:59	(unrelated sample)
JD18939-1	2P98996.D	01/15/21	20:00	07:25	S-10R
ZZZZZZ	2P98997.D	01/15/21	20:26	07:51	(unrelated sample)
ZZZZZZ	2P98998.D	01/15/21	20:52	08:17	(unrelated sample)
ZZZZZZ	2P98999.D	01/15/21	21:18	08:43	(unrelated sample)
JD18939-2	2P99000.D	01/15/21	21:44	09:09	S-15R
JD18939-3	2P99001.D	01/15/21	22:09	09:34	S-18R

Instrument Performance Check (DFTPP)

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample:	E2P4412-DFTPP	**Injection Date:**	01/15/21
Lab File ID:	2P98981.D	**Injection Time:**	12:35
Instrument ID:	GCMS2P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP31540-MS	2P99002.D	01/15/21	22:35	10:00	Matrix Spike
OP31540-MSD	2P99003.D	01/15/21	23:01	10:26	Matrix Spike Duplicate
JD18961-8	2P99004.D	01/15/21	23:27	10:52	(used for QC only; not part of job JD18939)
ZZZZZZ	2P99005.D	01/15/21	23:53	11:18	(unrelated sample)

Internal Standard Area Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Check Std:	E2P4412-CC4365	**Injection Date:**	01/15/21
Lab File ID:	2P98982.D	**Injection Time:**	12:45
Instrument ID:	GCMS2P	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	348467	4.43	1232886	5.42	670748	7.34	1244584	9.46	1293421	13.62	1201043	15.73
Upper Limit [a]	696934	4.93	2465772	5.92	1341496	7.84	2489168	9.96	2586842	14.12	2402086	16.23
Lower Limit [b]	174234	3.93	616443	4.92	335374	6.84	622292	8.96	646711	13.12	600522	15.23

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP31540-MB1	459581	4.43	1663653	5.42	836454	7.34	1586317	9.46	1674443	13.62	1720024	15.74
OP31540-BS1	513675	4.43	1752076	5.42	894882	7.35	1773040	9.47	1979276	13.63	1776299	15.74
OP31540-BSD	563754	4.43	1874466	5.42	957897	7.35	1855434	9.47	2091495	13.63	1828959	15.74
ZZZZZZ	486310	4.43	1722689	5.42	984443	7.34	1656514	9.46	1559254	13.62	1766166	15.74
ZZZZZZ	486947	4.43	1752134	5.42	1015314	7.34	1706524	9.46	1587168	13.62	1760278	15.74
ZZZZZZ	540610	4.43	1885090	5.42	1082181	7.34	1740582	9.46	1636694	13.62	1763064	15.74
ZZZZZZ	490965	4.43	1788516	5.42	1030373	7.34	1674580	9.46	1531179	13.62	1624821	15.74
ZZZZZZ	428144	4.43	1589384	5.42	923773	7.34	1578159	9.46	1520310	13.62	1669089	15.74
ZZZZZZ	529772	4.43	1917768	5.42	1106172	7.34	1807484	9.46	1665083	13.62	1779374	15.74
ZZZZZZ	519794	4.43	1805677	5.42	1010149	7.34	1625057	9.46	1497175	13.62	1545820	15.74
JD18939-1	494066	4.43	1732980	5.42	976985	7.34	1583724	9.46	1425848	13.62	1500111	15.74
ZZZZZZ	527854	4.43	1896700	5.42	1058953	7.34	1741931	9.46	1531576	13.63	1606714	15.74
ZZZZZZ	349668	4.43	1249936	5.42	728008	7.34	1230066	9.46	1164187	13.62	1239912	15.74
ZZZZZZ	261555	4.43	990958	5.42	581371	7.34	1015663	9.46	1004157	13.62	1125715	15.74
JD18939-2	350081	4.43	1281323	5.42	743837	7.34	1205170	9.46	1126776	13.63	1255285	15.75
JD18939-3	491760	4.43	1732455	5.42	994022	7.35	1587733	9.47	1429985	13.64	1579449	15.76
OP31540-MS	428547	4.43	1504048	5.42	865863	7.36	1415615	9.48	1316779	13.71	1405844	15.83
OP31540-MSD	329025	4.43	1173302	5.42	687898	7.37	1138206	9.49	1043937	13.73	1142768	15.84
JD18961-8	492283	4.44	1760190	5.43	983393	7.37	1554214	9.50	1432510	13.74	1474770	15.86
ZZZZZZ	484824	4.44	1744711	5.43	993554	7.38	1566606	9.54	1436150	13.74	1484934	15.87

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Method: SW846 8270E **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD18939-1	2P98996.D	52	50	64	69	58	75
JD18939-2	2P99000.D	45	47	54	58	49	57
JD18939-3	2P99001.D	46	47	58	60	51	63
OP31540-BS1	2P98987.D	65	67	69	82	76	70
OP31540-BSD	2P98988.D	65	66	69	84	78	70
OP31540-MB1	2P98985.D	71	71	79	90	85	84
OP31540-MS	2P99002.D	57	58	63	70	57	64
OP31540-MSD	2P99003.D	55	55	61	65	54	65

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	7-101%
S2 = Phenol-d5	12-101%
S3 = 2,4,6-Tribromophenol	10-127%
S4 = Nitrobenzene-d5	15-114%
S5 = 2-Fluorobiphenyl	22-104%
S6 = Terphenyl-d14	23-121%

Initial Calibration Summary

Job Number: JD18939 **Sample:** E2P4365-ICC4365
Account: LBGNJ WSP USA **Lab FileID:** 2P97995.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Response Factor Report MS2P

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 14:04:08 2020
Response via : Initial Calibration

Calibration Files
2 =2p97991.D 5 =2p97992.D 25 =2p97994.D 80 =2p97996.D
100 =2p97997.D 50 =2p97995.D 1 =2p97990.D 10 =2p97993.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD									
2) 1,4-Dioxane	0.573	0.639	0.653	0.683	0.717	0.669	0.725	0.635	0.662	7.38
3) Pyridine	1.447	1.728	1.717	1.815	1.875	1.781	1.341	1.725	1.678	11.07
4) N-Nitrosodim	0.858	0.917	0.971	1.003	1.054	0.987	0.908	0.902	0.950	6.79
5) 2-Fluorophen	1.229	1.304	1.384	1.456	1.528	1.425	1.242	1.336	1.363	7.71
6) Indene	2.323	2.421	2.400	2.428	2.459	2.447	2.460	2.425	2.420	1.83
7) Cumene	3.441	3.527	3.615	3.674	3.673	3.658	3.618	3.469	3.584	2.59
8) Phenol-d5	1.575	1.676	1.754	1.811	1.864	1.817	1.614	1.700	1.726	5.94
9) Phenol	1.798	1.886	1.993	2.030	2.123	2.047	1.844	1.880	1.950	5.85
10) Aniline	2.033	2.110	2.008	2.052	2.164	2.026	2.000	2.112	2.063	2.85
11) bis(2-Chloro	1.436	1.422	1.536	1.552	1.599	1.564	1.514	1.490	1.514	4.09
12) 2-Chlorophen	1.319	1.385	1.379	1.413	1.468	1.424	1.377	1.394	1.395	3.10
13) Decane	1.853	1.917	1.837	1.790	1.727	1.811	1.886	1.891	1.839	3.38
14) 1,3-Dichloro	1.485	1.505	1.501	1.515	1.521	1.538	1.592	1.491	1.518	2.26
15) 1,4-Dichloro	1.491	1.511	1.508	1.527	1.531	1.523	1.666	1.489	1.531	3.70
16) Benzyl alcoh	0.733	0.768	0.796	0.824	0.853	0.836	0.731	0.809	0.794	5.77
17) 1,2-Dichloro	1.395	1.388	1.426	1.435	1.461	1.436	1.473	1.404	1.427	2.13
18) Acetophenone	1.897	2.003	1.977	1.972	1.988	2.011	1.980	1.996	1.978	1.79
19) 2-Methylphen	1.210	1.252	1.249	1.237	1.261	1.236	1.197	1.230	1.234	1.75
20) 2,2'-oxybis(	0.343	0.345	0.336	0.335	0.340	0.331	0.405	0.343	0.347	6.87
21) 3&4-Methylph	1.221	1.328	1.314	1.327	1.379	1.342	1.319	1.290	1.315	3.49
22) n-Nitroso-di	1.102	1.144	1.116	1.121	1.129	1.139	1.081	1.136	1.121	1.88
23) Hexachloroet	0.529	0.519	0.503	0.509	0.510	0.512	0.568	0.510	0.520	4.01
24) I Naphthalene-d8	ISTD									
25) Nitrobenzene	0.422	0.457	0.455	0.457	0.460	0.462	0.424	0.455	0.449	3.67
26) Nitrobenzene	0.456	0.475	0.462	0.463	0.453	0.468	0.457	0.475	0.464	1.78
27) Quinoline	0.631	0.684	0.694	0.698	0.723	0.703	0.635	0.681	0.681	4.76
28) Isophorone	0.684	0.736	0.752	0.754	0.765	0.754	0.697	0.739	0.735	3.98
29) 2-Nitropheno	0.169	0.183	0.198	0.204	0.212	0.200	0.170	0.190	0.191	8.24
30) 2,4-Dimethyl	0.326	0.351	0.362	0.384	0.393	0.382	0.325	0.359	0.360	7.16
31) Benzoic acid		0.247	0.306	0.315	0.327	0.327		0.271	0.299	10.95
32) bis(2-Chloro	0.450	0.481	0.483	0.487	0.491	0.487	0.466	0.479	0.478	2.85
33) 2,4-Dichloro	0.283	0.300	0.305	0.309	0.320	0.309	0.275	0.299	0.300	4.89
34) 2,6-Dichloro	0.279	0.282	0.286	0.290	0.293	0.291	0.281	0.278	0.285	2.07
35) 1,3,5-Trichl	0.341	0.353	0.352	0.354	0.357	0.350	0.345	0.348	0.350	1.49
36) 1,2,4-Trichl	0.315	0.333	0.327	0.324	0.327	0.331	0.343	0.324	0.328	2.49
37) 1,2,3-Trichl	0.320	0.331	0.327	0.328	0.327	0.329	0.324	0.321	0.326	1.20
38) Naphthalene	0.958	0.994	1.004	1.000	0.993	0.992	1.032	0.985	0.995	2.06
39) 4-Chloroanil	0.394	0.415	0.412	0.414	0.425	0.410	0.413	0.419	0.413	2.13
40) 2,3-Dichloro	0.361	0.369	0.371	0.371	0.380	0.375	0.382	0.362	0.371	2.08
41) Caprolactam	0.089	0.103	0.108	0.111	0.114	0.112	0.089	0.106	0.104	9.50
42) Hexachlorobu	0.195	0.200	0.195	0.191	0.192	0.193	0.193	0.193	0.194	1.46
43) 4-Chloro-3-m	0.310	0.333	0.346	0.354	0.360	0.353	0.313	0.336	0.338	5.51
44) 2-Methylnaph	0.500	0.529	0.534	0.544	0.548	0.538	0.536	0.525	0.532	2.76
45) 1-Methylnaph	0.600	0.607	0.607	0.619	0.621	0.613	0.603	0.604	0.609	1.29

Initial Calibration Summary

Job Number: JD18939 **Sample:** E2P4365-ICC4365
Account: LBGNJ WSP USA **Lab FileID:** 2P97995.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

```
46) Dimethylnaph 0.561 0.594 0.598 0.591 0.598 0.592 0.588 0.589 0.589   2.03

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy       0.326 0.381 0.418 0.419 0.388       0.356 0.381   9.44
49) 2,4,6-Trichl 0.374 0.399 0.419 0.408 0.415 0.414 0.375 0.400 0.401   4.43
50) 2,4,5-Trichl 0.398 0.412 0.435 0.434 0.430 0.431 0.405 0.434 0.422   3.52
51) 2-Fluorobiph 1.291 1.331 1.341 1.309 1.303 1.290 1.356 1.304 1.316   1.84
52) 2-Chloronaph 1.149 1.195 1.225 1.165 1.161 1.170 1.212 1.209 1.186   2.37
53) Biphenyl     1.486 1.581 1.581 1.542 1.537 1.542 1.613 1.578 1.558   2.50
54) 2-Nitroanili 0.434 0.483 0.508 0.501 0.495 0.504 0.418 0.498 0.480   7.17
55) Dimethylphth 1.324 1.408 1.425 1.394 1.396 1.389 1.340 1.392 1.383   2.46
56) Acenaphthyle 1.752 1.886 1.888 1.863 1.862 1.841 1.717 1.870 1.835   3.51
57) 2,6-Dinitrot 0.252 0.274 0.299 0.301 0.305 0.302 0.253 0.291 0.285   7.72
58) 3-Nitroanili 0.284 0.316 0.349 0.349 0.352 0.342 0.253 0.332 0.322  11.23
59) Acenaphthene 1.176 1.218 1.231 1.197 1.211 1.212 1.252 1.217 1.214   1.85
60) 2,4-Dinitrop 0.067 0.108 0.183 0.203 0.212 0.196       0.141 0.159  34.72
          ----- Quadratic regression -----              Coefficient =  0.9993
               Response Ratio = -0.01398 + 0.18024 *A + 0.00702 *A^2

61) 4-Nitropheno       0.177 0.223 0.232 0.232 0.226       0.195 0.214  10.71
62) Dibenzofuran 1.593 1.661 1.646 1.637 1.614 1.607 1.631 1.641 1.629   1.39
63) 2,4-Dinitrot 0.352 0.376 0.415 0.417 0.413 0.412 0.310 0.402 0.387  10.04
64) 2,3,4,6-Tetr 0.288 0.324 0.342 0.346 0.350 0.347 0.286 0.325 0.326   7.96
65) Diethylphtha 1.328 1.435 1.465 1.433 1.436 1.440 1.345 1.434 1.414   3.49
66) Fluorene     1.258 1.314 1.338 1.307 1.317 1.321 1.295 1.321 1.309   1.83
67) 4-Chlorophen 0.615 0.656 0.650 0.642 0.639 0.641 0.658 0.656 0.645   2.17
68) 4-Nitroanili 0.267 0.301 0.336 0.330 0.333 0.329 0.209 0.321 0.303  14.62

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro-       0.113 0.143 0.151 0.157 0.149       0.130 0.140  11.45
71) n-Nitrosodip 0.500 0.528 0.528 0.517 0.531 0.522 0.494 0.521 0.517   2.59
72) 1,2-Diphenyl 0.860 0.930 0.928 0.895 0.988 0.911 0.876 0.925 0.914   4.31
73) 2,4,6-Tribro 0.127 0.145 0.155 0.155 0.164 0.153 0.114 0.145 0.145  11.42
74) 4-Bromopheny 0.225 0.240 0.240 0.240 0.249 0.240 0.238 0.237 0.239   2.86
75) Hexachlorobe 0.261 0.281 0.279 0.277 0.289 0.277 0.280 0.275 0.277   2.83
76) Pentachlorop 0.086 0.115 0.157 0.172 0.184 0.164       0.132 0.144  24.35
          ----- Quadratic regression -----              Coefficient =  0.9996
               Response Ratio = -0.00718 + 0.14837 *A + 0.00714 *A^2

77) Phenanthrene 1.029 1.078 1.066 1.040 1.061 1.046 1.141 1.047 1.063   3.29
78) Anthracene   1.014 1.089 1.078 1.059 1.084 1.070 1.057 1.070 1.065   2.19
79) Carbazole    0.960 1.007 1.011 1.008 1.032 1.005 0.981 1.004 1.001   2.16
80) Di-n-butylph 1.198 1.352 1.400 1.387 1.420 1.393 1.166 1.357 1.334   7.26
81) Fluoranthene 1.078 1.152 1.199 1.199 1.245 1.194 1.111 1.160 1.167   4.59
82) Octadecane   0.422 0.439 0.431 0.411 0.410 0.417 0.412 0.425 0.421   2.45

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.136 1.229 1.198 1.188 1.206 1.187 1.143 1.206 1.187   2.67
85) Terphenyl-d1 0.895 0.940 0.949 0.941 0.966 0.935 0.897 0.928 0.931   2.64
86) Butylbenzylp 0.531 0.574 0.616 0.623 0.636 0.623 0.466 0.596 0.583   9.98
87) Benzo[a]anth 1.118 1.158 1.179 1.154 1.190 1.160 1.194 1.149 1.163   2.13
88) 3,3'-Dichlor 0.366 0.421 0.444 0.461 0.474 0.448 0.353 0.425 0.424  10.30
89) Chrysene     1.078 1.130 1.111 1.087 1.095 1.093 1.201 1.114 1.113   3.52
90) bis(2-Ethylh 0.662 0.787 0.843 0.831 0.837 0.830 0.610 0.804 0.775  11.48

91) I   Perylene-d12          ----------------ISTD---------------------
92) Di-n-octylph 1.073 1.278 1.481 1.490 1.524 1.547       1.399 1.399  12.15
93) Benzo[b]fluo 1.066 1.126 1.251 1.246 1.341 1.277 1.080 1.171 1.195   8.32
94) Benzo[k]fluo 1.057 1.137 1.120 1.094 1.052 1.156 1.075 1.129 1.103   3.50
95) Benzo[a]pyre 0.943 1.015 1.068 1.064 1.108 1.092 0.963 1.048 1.038   5.73
```

Initial Calibration Summary

Job Number: JD18939 **Sample:** E2P4365-ICC4365
Account: LBGNJ WSP USA **Lab FileID:** 2P97995.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

```
 96) Indeno[1,2,3 0.940 1.058 1.168 1.194 1.300 1.209 0.964 1.069 1.113  11.32
 97) Dibenz(a,h)a 0.903 0.986 1.084 1.084 1.140 1.102 0.937 1.022 1.032   8.16
 98) Dibenz[a,h]a 1.051 1.136 1.204 1.179 1.224 1.200 1.104 1.153 1.156   5.02
 99) 7,12-Dimethy 0.265 0.300 0.386 0.549 0.580 0.488       0.367 0.419  29.07
          ----- Quadratic regression -----                Coefficient =  0.9994
               Response Ratio = -0.00674 + 0.36647 *A + 0.08911 *A^2

100) Benzo[g,h,i] 0.993 1.072 1.147 1.120 1.162 1.143 1.027 1.104 1.096   5.54


 ----------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M2P4365.M         Fri Dec 04 14:56:53 2020   RPT1
```

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4365-ICV4365
Account: LBGNJ WSP USA **Lab FileID:** 2P97998.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4365\2p97998.D Vial: 10
Acq On : 3 Dec 2020 8:20 pm Operator: hennys
Sample : icv4365-50 Inst : MS2P
Misc : op30791,e2p4365,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 14:04:08 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	83	0.00	4.52
3	t	Pyridine	1.678	1.606	4.3	75	0.01	2.37
10		Aniline	2.063	2.295	-11.2	95	0.00	4.30
16	t	Benzyl alcohol	0.794	0.937	-18.0	94	0.00	4.64
24	I	Naphthalene-d8	1.000	1.000	0.0	88	0.00	5.53
39	t	4-Chloroaniline	0.413	0.411	0.5	88	0.00	5.61
44	t	2-Methylnaphthalene	0.532	0.576	-8.3	94	0.00	6.24
47	I	Acenaphthene-d10	1.000	1.000	0.0	87	0.00	7.49
54	t	2-Nitroaniline	0.480	0.487	-1.5	84	0.00	6.94
58	t	3-Nitroaniline	0.322	0.336	-4.3	85	0.00	7.48
62	t	Dibenzofuran	1.629	1.682	-3.3	91	0.00	7.77
68	t	4-Nitroaniline	0.303	0.354	-16.8	93	-0.01	8.33
69	I	Phenanthrene-d10	1.000	1.000	0.0	87	0.00	9.61
79	t	Carbazole	1.001	1.055	-5.4	91	0.00	10.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p97995.D M2P4365.M Fri Dec 04 14:57:13 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4365-ICV4365
Account: LBGNJ WSP USA **Lab FileID:** 2P97999.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4365\2p97999.D Vial: 11
Acq On : 3 Dec 2020 8:46 pm Operator: hennys
Sample : icv4365-50 Inst : MS2P
Misc : op30791,e2p4365,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 14:04:08 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00	4.52
2	t	1,4-Dioxane	0.662	0.632	4.5	88	0.03	2.03
4	t	N-Nitrosodimethylamine	0.950	0.971	-2.2	92	0.02	2.36
6	t	Indene	2.420	2.292	5.3	88	0.00	4.71
7	t	Cumene	3.584	3.460	3.5	89	0.00	3.94
9	t	Phenol	1.950	1.931	1.0	88	0.00	4.36
11	t	bis(2-Chloroethyl)ether	1.514	1.370	9.5	82	0.00	4.34
12	t	2-Chlorophenol	1.395	1.362	2.4	90	0.00	4.40
13	t	Decane	1.839	1.707	7.2	88	0.00	4.42
14	t	1,3-Dichlorobenzene	1.518	1.468	3.3	89	0.00	4.48
15	t	1,4-Dichlorobenzene	1.531	1.461	4.6	90	0.00	4.54
17	t	1,2-Dichlorobenzene	1.427	1.400	1.9	91	0.00	4.64
18	t	Acetophenone	1.978	1.892	4.3	88	0.00	4.82
19	t	2-Methylphenol	1.234	1.194	3.2	90	0.00	4.77
20	t	2,2'-oxybis(1-Chloropropa	0.347	0.354	-2.0	100	0.00	4.72
21	t	3&4-Methylphenol	1.315	1.243	5.5	87	0.00	4.88
22	t	n-Nitroso-di-n-propylamin	1.121	1.071	4.5	88	0.00	4.82
23	t	Hexachloroethane	0.520	0.491	5.6	90	0.00	4.89
24	I	Naphthalene-d8	1.000	1.000	0.0	93	0.00	5.53
26	t	Nitrobenzene	0.464	0.454	2.2	90	0.00	4.95
27	t	Quinoline	0.681	0.654	4.0	86	-0.02	5.87
28	t	Isophorone	0.735	0.709	3.5	87	0.00	5.13
29	t	2-Nitrophenol	0.191	0.186	2.6	86	0.00	5.20
30	t	2,4-Dimethylphenol	0.360	0.356	1.1	86	0.00	5.28
31	t	Benzoic acid	0.299	0.318	-6.4	90	0.00	5.43
32	t	bis(2-Chloroethoxy)methan	0.478	0.437	8.6	83	0.00	5.32
33	t	2,4-Dichlorophenol	0.300	0.295	1.7	89	0.00	5.45
34	t	2,6-Dichlorophenol	0.285	0.286	-0.4	91	0.00	5.63
36	t	1,2,4-Trichlorobenzene	0.328	0.319	2.7	89	0.00	5.48
38	t	Naphthalene	0.995	0.979	1.6	91	0.00	5.55
40	t	2,3-Dichloroaniline	0.371	0.328	11.6	81	0.00	6.56
41	t	Caprolactam	0.104	0.104	0.0	86	0.00	5.97
42	t	Hexachlorobutadiene	0.194	0.199	-2.6	95	0.00	5.67
43	t	4-Chloro-3-methylphenol	0.338	0.327	3.3	86	0.00	6.16
45	t	1-Methylnaphthalene	0.609	0.550	9.7	83	0.00	6.34
46	t	Dimethylnaphthalene	0.589	0.569	3.4	89	0.00	6.96
47	I	Acenaphthene-d10	1.000	1.000	0.0	94	0.00	7.49
48	t	Hexachlorocyclopentadiene	0.381	0.379	0.5	92	0.00	6.42
49	t	2,4,6-Trichlorophenol	0.401	0.382	4.7	87	0.00	6.59
50	t	2,4,5-Trichlorophenol	0.422	0.410	2.8	89	0.00	6.66

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4365-ICV4365
Account: LBGNJ WSP USA **Lab FileID:** 2P97999.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

52	t	2-Chloronaphthalene	1.186	1.106	6.7	89	0.00	6.79
53	t	Biphenyl	1.558	1.473	5.5	90	0.00	6.78
55	t	Dimethylphthalate	1.383	1.256	9.2	85	0.00	7.18
56	t	Acenaphthylene	1.835	1.682	8.3	86	0.00	7.30
57	t	2,6-Dinitrotoluene	0.285	0.278	2.5	86	0.00	7.25
59	t	Acenaphthene	1.214	1.131	6.8	88	0.00	7.53
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	92.580	7.4	84	0.00	7.62
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.214	0.203	5.1	84	0.00	7.88
63	t	2,4-Dinitrotoluene	0.387	0.375	3.1	86	0.00	7.79
64		2,3,4,6-Tetrachlorophenol	0.326	0.335	-2.8	91	0.00	7.99
65	t	Diethylphthalate	1.414	1.315	7.0	86	0.00	8.16
66	t	Fluorene	1.309	1.257	4.0	89	0.00	8.25
67	t	4-Chlorophenyl-phenylethe	0.645	0.583	9.6	86	0.00	8.27
69	I	Phenanthrene-d10	1.000	1.000	0.0	94	0.00	9.62
70	t	4,6-Dinitro-2-methylpheno	0.140	0.120	14.3	76	0.00	8.37
71	t	n-Nitrosodiphenylamine	0.517	0.447	13.5	81	0.00	8.46
72	t	1,2-Diphenylhydrazine	0.914	0.881	3.6	91	0.00	8.50
74	t	4-Bromophenyl-phenylether	0.239	0.220	7.9	86	0.00	8.98
75	t	Hexachlorobenzene	0.277	0.264	4.7	90	0.00	9.06
		----------	True	Calc.	% Drift	----------		
76	t	Pentachlorophenol	100.000	86.042	14.0	74	0.00	9.40
		----------	AvgRF	CCRF	% Dev	----------		
77	t	Phenanthrene	1.063	1.008	5.2	91	0.00	9.65
78	t	Anthracene	1.065	0.991	6.9	87	0.00	9.73
80	t	Di-n-butylphthalate	1.334	1.266	5.1	86	0.00	10.65
81	t	Fluoranthene	1.167	1.151	1.4	91	0.00	11.49
82	t	Octadecane	0.421	0.389	7.6	88	0.00	9.61
83	I	Chrysene-d12	1.000	1.000	0.0	92	0.00	13.77
84	t	Pyrene	1.187	1.130	4.8	88	0.00	11.84
86	t	Butylbenzylphthalate	0.583	0.571	2.1	84	0.00	13.01
87	t	Benzo[a]anthracene	1.163	1.128	3.0	90	0.00	13.76
89	t	Chrysene	1.113	1.048	5.8	88	0.00	13.81
90	t	bis(2-Ethylhexyl)phthalat	0.775	0.765	1.3	85	0.00	13.99
91	I	Perylene-d12	1.000	1.000	0.0	93	0.00	15.88
92	t	Di-n-octylphthalate	1.399	1.386	0.9	84	0.00	14.97
93	t	Benzo[b]fluoranthene	1.195	1.203	-0.7	88	0.00	15.36
94	t	Benzo[k]fluoranthene	1.103	1.050	4.8	85	0.00	15.40
95	t	Benzo[a]pyrene	1.038	1.019	1.8	87	0.00	15.79
96	t	Indeno[1,2,3-cd]pyrene	1.113	1.127	-1.3	87	0.00	17.24
98	t	Dibenz[a,h]anthracene	1.156	1.099	4.9	85	0.00	17.28
		----------	True	Calc.	% Drift	----------		
99	t	7,12-Dimethylbenz(a)anthr	50.000	44.618	10.8	79	0.00	15.37
		----------	AvgRF	CCRF	% Dev	----------		
100	t	Benzo[g,h,i]perylene	1.096	1.082	1.3	88	0.00	17.61

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Initial Calibration Verification

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample: E2P4365-ICV4365
Lab FileID: 2P97999.D

2p97995.D M2P4365.M Fri Dec 04 14:57:15 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4365-ICV4365
Account: LBGNJ WSP USA **Lab FileID:** 2P98000.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4365\2p98000.D Vial: 12
Acq On : 3 Dec 2020 9:12 pm Operator: hennys
Sample : icv4365-50 Inst : MS2P
Misc : op30791,e2p4365,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 14:04:08 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	82	0.00	4.52
5	S	2-Fluorophenol	1.363	1.378	-1.1	79	0.00	3.64
8	S	Phenol-d5	1.726	1.737	-0.6	79	0.00	4.35
24	I	Naphthalene-d8	1.000	1.000	0.0	85	0.00	5.53
25	S	Nitrobenzene-d5	0.449	0.468	-4.2	86	0.00	4.93
47	I	Acenaphthene-d10	1.000	1.000	0.0	82	0.00	7.49
51	S	2-Fluorobiphenyl	1.316	1.337	-1.6	85	0.00	6.65
69	I	Phenanthrene-d10	1.000	1.000	0.0	83	0.00	9.61
73	S	2,4,6-Tribromophenol	0.145	0.149	-2.8	82	-0.01	8.60
83	I	Chrysene-d12	1.000	1.000	0.0	81	-0.01	13.76
85	S	Terphenyl-d14	0.931	0.967	-3.9	84	0.00	12.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p97995.D M2P4365.M Fri Dec 04 14:57:17 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4365-ICV4365
Account: LBGNJ WSP USA **Lab FileID:** 2P98001.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4365\2p98001.D Vial: 13
Acq On : 3 Dec 2020 9:38 pm Operator: hennys
Sample : icv4365-50 Inst : MS2P
Misc : op30791,e2p4365,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 14:04:08 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83 I	Chrysene-d12	1.000	1.000	0.0	114	-0.01	13.76
88 t	3,3'-Dichlorobenzidine	0.424	0.446	-5.2	114	0.00	13.78

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p97995.D M2P4365.M Fri Dec 04 14:57:19 2020 RPT1

Initial Calibration Summary

Job Number: JD18939 **Sample:** E2P4366-ICC4366
Account: LBGNJ WSP USA **Lab FileID:** 2P98005.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Response Factor Report MS2P

Method : C:\MSDCHEM\1\METHODS\M2P4366.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 15:27:17 2020
Response via : Initial Calibration

Calibration Files
2 =2p98009.D 5 =2p98008.D 25 =2p98006.D 80 =2p98004.D
100 =2p98003.D 50 =2p98005.D 1 =2p98010.D 10 =2p98007.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
101) I 1,4-Dichlorobenzene-d	ISTD									
102) Benzaldehyde	1.095	1.132	1.183	1.218	1.246	1.200	1.055	1.132	1.158	5.63
109) I Phenanthrene-d10a	ISTD									
110) Pentachloron	0.038	0.045	0.048	0.049	0.047		0.043	0.045#		9.24
111) Atrazine	0.079	0.094	0.100	0.107	0.109	0.104	0.079	0.095	0.096	12.17

(#) = Out of Range ### Number of calibration levels exceeded format ###

M2P4365.M Fri Dec 04 15:29:03 2020 RPT1

Initial Calibration Summary

Job Number: JD18939 **Sample:** E2P4367-ICC4367
Account: LBGNJ WSP USA **Lab FileID:** 2P98015.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Response Factor Report MS2P

Method : C:\MSDCHEM\1\METHODS\M2P4367.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 16:05:32 2020
Response via : Initial Calibration

Calibration Files
2 =2p98019.D 5 =2p98018.D 25 =2p98016.D 80 =2p98014.D
100 =2p98013.D 50 =2p98015.D 1 =2p98020.D 10 =2p98017.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
103) I Naphthalene-d8a	----------ISTD----------									
104) Hydroquinone	0.220	0.310	0.338	0.350	0.345		0.210	0.295		21.72
----- Quadratic regression ----- Coefficient = 0.9980										
Response Ratio = -0.01983 + 0.33622 *A + 0.00867 *A^2										
105) I Acenaphthene-d10a	----------ISTD----------									
106) 1,2,4,5-Tetr	0.569	0.572	0.593	0.606	0.631	0.613	0.599	0.597	0.598	3.42
107) I Chrysene-d12a	----------ISTD----------									
108) Benzidine	0.558	0.728	0.742	0.735	0.755		0.672	0.698		10.65
117) I Phenanthrene-d10b	----------ISTD----------									
118) 1-Chloroocta	0.383	0.398	0.427	0.412	0.421	0.430	0.358	0.417	0.406	6.08
119) o-terphenyl	0.526	0.526	0.562	0.564	0.585	0.570	0.530	0.545	0.551	4.11

(#) = Out of Range ### Number of calibration levels exceeded format ###

M2P4365.M Fri Dec 04 16:06:23 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4367-ICV4367
Account: LBGNJ WSP USA **Lab FileID:** 2P98021.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4366\2p98021.D Vial: 31
Acq On : 4 Dec 2020 5:45 am Operator: hennys
Sample : icv4367-50 Inst : MS2P
Misc : op30791,e2p4367,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 16:05:32 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
107 I	Chrysene-d12a	1.000	1.000	0.0	125	0.00	13.76
108	Benzidine	0.698	0.739	-5.9	122	0.00	11.78

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98015a.D M2P4365.M Fri Dec 04 16:07:33 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4367-ICV4367
Account: LBGNJ WSP USA **Lab FileID:** 2P98022.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4366\2p98022.D Vial: 32
Acq On : 4 Dec 2020 6:11 am Operator: hennys
Sample : icv4367-50 Inst : MS2P
Misc : op30791,e2p4367,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 16:05:32 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103 I	Naphthalene-d8a	1.000	1.000	0.0	81	0.00	5.53
	----------	True	Calc.	% Drift	----------		
104	Hydroquinone	50.000	47.376	5.2	73	0.00	6.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98015a.D M2P4365.M Fri Dec 04 16:07:35 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4367-ICV4367
Account: LBGNJ WSP USA **Lab FileID:** 2P98023.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4366\2p98023.D Vial: 22
Acq On : 4 Dec 2020 6:37 am Operator: hennys
Sample : icv4367-50 Inst : MS2P
Misc : op30791,e2p4367,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 16:05:32 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
105 I	Acenaphthene-d10a	1.000	1.000	0.0	76	0.00	7.48
106	1,2,4,5-Tetrachlorobenzen	0.598	0.637	-6.5	79	0.00	6.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98015a.D M2P4365.M Fri Dec 04 16:07:37 2020 RPT1

Initial Calibration Verification

Job Number: JD18939 **Sample:** E2P4367-ICV4366
Account: LBGNJ WSP USA **Lab FileID:** 2P98023A.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E2P4366\2p98023a.D Vial: 22
Acq On : 4 Dec 2020 6:37 am Operator: hennys
Sample : icv4366-50 Inst : MS2P
Misc : op30791,e2p4367,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Dec 04 16:05:32 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
101 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	52	0.00	4.52
102	Benzaldehyde	1.158	1.246	-7.6	54	0.00	4.20
109 I	Phenanthrene-d10a	1.000	1.000	0.0	53	0.00	9.61
110	Pentachloronitrobenzene	0.045	0.053	-17.8	60	0.00	9.38
111	Atrazine	0.096	0.108	-12.5	55	-0.01	9.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98015a.D M2P4365.M Fri Dec 04 16:19:03 2020 RPT1

Continuing Calibration Summary

Job Number: JD18939 **Sample:** E2P4412-CC4365
Account: LBGNJ WSP USA **Lab FileID:** 2P98982.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jeryllr\e2p4412\2p98982.d Vial: 2
Acq On : 15 Jan 2021 12:45 pm Operator: hennys
Sample : cc4365-25 Inst : MS2P
Misc : op30791,e2p4412,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Dec 31 03:26:22 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	51	0.00	4.43
2	t	1,4-Dioxane	0.662	0.926	-39.9#	72	-0.03	1.87
3	t	Pyridine	1.678	2.063	-22.9#	61	-0.02	2.23
4	t	N-Nitrosodimethylamine	0.950	1.204	-26.7#	63	-0.02	2.23
5	S	2-Fluorophenol	1.363	1.263	7.3	46#	0.00	3.50
6	t	Indene	2.420	2.360	2.5	50#	0.00	4.61
7	t	Cumene	3.584	3.563	0.6	50	0.00	3.84
8	S	Phenol-d5	1.726	1.602	7.2	46#	0.00	4.22
9	t	Phenol	1.950	1.869	4.2	48#	0.00	4.23
10		Aniline	2.063	1.857	10.0	47#	0.00	4.20
11	t	bis(2-Chloroethyl)ether	1.514	1.416	6.5	47#	0.00	4.25
12	t	2-Chlorophenol	1.395	1.311	6.0	48#	0.00	4.30
13	t	Decane	1.839	2.198	-19.5	61	0.00	4.32
14	t	1,3-Dichlorobenzene	1.518	1.449	4.5	49#	0.00	4.39
15	t	1,4-Dichlorobenzene	1.531	1.467	4.2	49#	0.00	4.44
16	t	Benzyl alcohol	0.794	0.684	13.9	44#	0.00	4.55
17	t	1,2-Dichlorobenzene	1.427	1.384	3.0	49#	0.00	4.55
18	t	Acetophenone	1.978	2.084	-5.4	53	0.00	4.73
19	t	2-Methylphenol	1.234	1.190	3.6	48#	0.00	4.65
20	t	2,2'-oxybis(1-Chloropropa	0.347	0.329	5.2	50#	0.00	4.63
21	t	3&4-Methylphenol	1.315	1.211	7.9	47#	0.00	4.76
22	t	n-Nitroso-di-n-propylamin	1.121	1.223	-9.1	56	0.00	4.73
23	t	Hexachloroethane	0.520	0.555	-6.7	56	0.00	4.79
24	I	Naphthalene-d8	1.000	1.000	0.0	52	0.00	5.42
25	S	Nitrobenzene-d5	0.449	0.510	-13.6	58	0.00	4.84
26	t	Nitrobenzene	0.464	0.531	-14.4	59	0.00	4.85
27	t	Quinoline	0.681	0.654	4.0	49#	0.00	5.76
28	t	Isophorone	0.735	0.807	-9.8	55	0.00	5.04
29	t	2-Nitrophenol	0.191	0.195	-2.1	51	0.00	5.10
30	t	2,4-Dimethylphenol	0.360	0.372	-3.3	53	0.00	5.16
31	t	Benzoic acid	0.299	0.293	2.0	49#	-0.01	5.30
32	t	bis(2-Chloroethoxy)methan	0.478	0.462	3.3	49#	0.00	5.22
33	t	2,4-Dichlorophenol	0.300	0.291	3.0	49#	0.00	5.33
34	t	2,6-Dichlorophenol	0.285	0.286	-0.4	52	0.00	5.51
35		1,3,5-Trichlorobenzene	0.350	0.359	-2.6	53	0.00	5.11
36	t	1,2,4-Trichlorobenzene	0.328	0.327	0.3	52	0.00	5.38
37		1,2,3-Trichlorobenzene	0.326	0.334	-2.5	53	0.00	5.57
38	t	Naphthalene	0.995	0.950	4.5	49#	0.00	5.43
39	t	4-Chloroaniline	0.413	0.390	5.6	49#	0.00	5.50
40	t	2,3-Dichloroaniline	0.371	0.365	1.6	51	0.00	6.43
41	t	Caprolactam	0.104	0.106	-1.9	51	-0.01	5.84

Continuing Calibration Summary

Job Number: JD18939 **Sample:** E2P4412-CC4365
Account: LBGNJ WSP USA **Lab FileID:** 2P98982.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

42	t	Hexachlorobutadiene	0.194	0.214	-10.3	57	0.00	5.55
43	t	4-Chloro-3-methylphenol	0.338	0.347	-2.7	52	-0.01	6.01
44	t	2-Methylnaphthalene	0.532	0.514	3.4	50#	0.00	6.11
45	t	1-Methylnaphthalene	0.609	0.608	0.2	52	0.00	6.22
46	t	Dimethylnaphthalene	0.589	0.596	-1.2	51	-0.01	6.83
47	I	Acenaphthene-d10	1.000	1.000	0.0	54	0.00	7.34
48	t	Hexachlorocyclopentadiene	0.381	0.174	54.3#	25#	0.00	6.28
49	t	2,4,6-Trichlorophenol	0.401	0.396	1.2	51	0.00	6.45
50	t	2,4,5-Trichlorophenol	0.422	0.421	0.2	52	0.00	6.51
51	S	2-Fluorobiphenyl	1.316	1.312	0.3	53	0.00	6.53
52	t	2-Chloronaphthalene	1.186	1.167	1.6	51	0.00	6.65
53	t	Biphenyl	1.558	1.526	2.1	52	0.00	6.64
54	t	2-Nitroaniline	0.480	0.609	-26.9#	65	0.00	6.80
55	t	Dimethylphthalate	1.383	1.432	-3.5	54	0.00	7.04
56	t	Acenaphthylene	1.835	1.771	3.5	51	0.00	7.16
57	t	2,6-Dinitrotoluene	0.285	0.290	-1.8	52	0.00	7.12
58	t	3-Nitroaniline	0.322	0.320	0.6	50#	0.00	7.34
59	t	Acenaphthene	1.214	1.200	1.2	53	0.00	7.39
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	44.357	11.3	46	0.02	7.50
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.214	0.240	-12.1	58	0.00	7.68
62	t	Dibenzofuran	1.629	1.599	1.8	52	0.00	7.62
63	t	2,4-Dinitrotoluene	0.387	0.421	-8.8	55	0.01	7.67
64		2,3,4,6-Tetrachlorophenol	0.326	0.306	6.1	48#	0.00	7.83
65	t	Diethylphthalate	1.414	1.520	-7.5	56	0.00	8.01
66	t	Fluorene	1.309	1.297	0.9	52	0.00	8.09
67	t	4-Chlorophenyl-phenylethe	0.645	0.639	0.9	53	0.00	8.12
68	t	4-Nitroaniline	0.303	0.267	11.9	43#	0.00	8.18
69	I	Phenanthrene-d10	1.000	1.000	0.0	55	0.00	9.46
70	t	4,6-Dinitro-2-methylpheno	0.140	0.128	8.6	49#	0.00	8.25
71	t	n-Nitrosodiphenylamine	0.517	0.494	4.4	51	-0.01	8.30
72	t	1,2-Diphenylhydrazine	0.914	1.039	-13.7	61	0.00	8.34
73	S	2,4,6-Tribromophenol	0.145	0.138	4.8	49#	0.00	8.45
74	t	4-Bromophenyl-phenylether	0.239	0.230	3.8	53	-0.01	8.82
75	t	Hexachlorobenzene	0.277	0.268	3.2	53	0.00	8.91
		----------	True	Calc.	% Drift	----------		
76	t	Pentachlorophenol	50.000	42.294	15.4	44	0.00	9.24
		----------	AvgRF	CCRF	% Dev	----------		
77	t	Phenanthrene	1.063	1.025	3.6	53	0.00	9.49
78	t	Anthracene	1.065	1.030	3.3	52	0.00	9.57
79	t	Carbazole	1.001	0.931	7.0	51	0.00	9.86
80	t	Di-n-butylphthalate	1.334	1.421	-6.5	56	0.00	10.50
81	t	Fluoranthene	1.167	1.170	-0.3	54	0.00	11.34
82	t	Octadecane	0.421	0.670	-59.1#	85	0.00	9.46
83	I	Chrysene-d12	1.000	1.000	0.0	55	0.00	13.62
84	t	Pyrene	1.187	1.172	1.3	54	0.00	11.68
85	S	Terphenyl-d14	0.931	0.936	-0.5	54	0.00	12.01
86	t	Butylbenzylphthalate	0.583	0.640	-9.8	57	0.00	12.85
87	t	Benzo[a]anthracene	1.163	1.176	-1.1	55	0.00	13.60
88	t	3,3'-Dichlorobenzidine	0.424	0.429	-1.2	53	0.00	13.62
89	t	Chrysene	1.113	1.083	2.7	54	0.00	13.66
90	t	bis(2-Ethylhexyl)phthalat	0.775	0.895	-15.5	58	0.00	13.83

Continuing Calibration Summary

Job Number: JD18939 **Sample:** E2P4412-CC4365
Account: LBGNJ WSP USA **Lab FileID:** 2P98982.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

91	I	Perylene-d12	1.000	1.000	0.0	50	0.00	15.73
92	t	Di-n-octylphthalate	1.399	1.702	-21.7#	58	0.00	14.81
93	t	Benzo[b]fluoranthene	1.195	1.319	-10.4	53	0.00	15.22
94	t	Benzo[k]fluoranthene	1.103	1.218	-10.4	55	0.00	15.25
95	t	Benzo[a]pyrene	1.038	1.154	-11.2	54	0.00	15.65
96	t	Indeno[1,2,3-cd]pyrene	1.113	1.224	-10.0	53	0.00	17.09
97	t	Dibenz(a,h)acridine	1.032	1.126	-9.1	52	0.00	16.81
98	t	Dibenz[a,h]anthracene	1.156	1.265	-9.4	53	0.00	17.12
			True	Calc.	% Drift			
99	t	7,12-Dimethylbenz(a)anthr	25.000	15.653	37.4#	31	-0.01	15.20
			AvgRF	CCRF	% Dev			
100	t	Benzo[g,h,i]perylene	1.096	1.188	-8.4	52	0.01	17.44

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98615.d M2P4365.M Mon Jan 18 03:02:00 2021

Continuing Calibration Summary

Job Number: JD18939 **Sample:** E2P4412-CC4366
Account: LBGNJ WSP USA **Lab FileID:** 2P98983.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jeryllr\e2p4412\2p98983.d Vial: 3
Acq On : 15 Jan 2021 1:11 pm Operator: hennys
Sample : cc4366-25 Inst : MS2P
Misc : op30791,e2p4412,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Dec 31 03:26:22 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
101 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	57	0.00	4.43
102	Benzaldehyde	1.158	1.039	10.3	50#	0.00	4.12
109 I	Phenanthrene-d10a	1.000	1.000	0.0	59	0.00	9.46
110	Pentachloronitrobenzene	0.045	0.049#	-8.9	66	0.00	9.24
111	Atrazine	0.096	0.095	1.0	57	0.00	9.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98615.d M2P4365.M Mon Jan 18 03:02:05 2021

Continuing Calibration Summary

Job Number: JD18939 **Sample:** E2P4412-CC4367
Account: LBGNJ WSP USA **Lab FileID:** 2P98984.D
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\jeryllr\e2p4412\2p98984.d Vial: 4
Acq On : 15 Jan 2021 1:37 pm Operator: hennys
Sample : cc4367-25 Inst : MS2P
Misc : op30791,e2p4412,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M2P4365.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Dec 31 03:26:22 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103 I	Naphthalene-d8a	1.000	1.000	0.0	80	0.00	5.42
		True	Calc.	% Drift			
104	Hydroquinone	25.000	22.458	10.2	71	0.00	5.87
		AvgRF	CCRF	% Dev			
105 I	Acenaphthene-d10a	1.000	1.000	0.0	82	0.00	7.34
106	1,2,4,5-Tetrachlorobenzen	0.598	0.594	0.7	82	0.00	6.30
107 I	Chrysene-d12a	1.000	1.000	0.0	85	0.00	13.62
108	Benzidine	0.698	0.575	17.6	67	0.00	11.62
117 I	Phenanthrene-d10b	1.000	1.000	0.0	83	0.00	9.46
118 s	1-Chlorooctadecane	0.406	0.488	-20.2#	95	-0.06	11.33
119 s	o-terphenyl	0.551	0.556	-0.9	82	-0.06	10.10

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2p98615.d M2P4365.M Mon Jan 18 03:02:08 2021

Run Sequence Report

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Run ID: E2P4365	**Method:** SW846 8270E	**Instrument ID:** GCMS2P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E2P4365-DFTPP	2P97989.D	12/03/20 16:26	n/a	DFTPP Tune
E2P4365-IC4365	2P97990.D	12/03/20 16:46	n/a	Initial cal 1
E2P4365-IC4365	2P97991.D	12/03/20 17:14	n/a	Initial cal 2
E2P4365-IC4365	2P97992.D	12/03/20 17:40	n/a	Initial cal 5
E2P4365-IC4365	2P97993.D	12/03/20 18:07	n/a	Initial cal 10
E2P4365-IC4365	2P97994.D	12/03/20 18:35	n/a	Initial cal 25
E2P4365-ICC4365	2P97995.D	12/03/20 19:01	n/a	Initial cal 50
E2P4365-IC4365	2P97996.D	12/03/20 19:27	n/a	Initial cal 80
E2P4365-IC4365	2P97997.D	12/03/20 19:54	n/a	Initial cal 100
E2P4365-ICV4365	2P97998.D	12/03/20 20:20	n/a	Initial cal verification 50
E2P4365-ICV4365	2P97999.D	12/03/20 20:46	n/a	Initial cal verification 50
E2P4365-ICV4365	2P98000.D	12/03/20 21:12	n/a	Initial cal verification 50
E2P4365-ICV4365	2P98001.D	12/03/20 21:38	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Run ID: E2P4366	**Method:** SW846 8270E	**Instrument ID:** GCMS2P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E2P4366-DFTPP	2P98002.D	12/03/20 22:01	n/a	DFTPP Tune
E2P4366-IC4366	2P98003.D	12/03/20 22:13	n/a	Initial cal 100
E2P4366-IC4366	2P98004.D	12/03/20 22:39	n/a	Initial cal 80
E2P4366-ICC4366	2P98005.D	12/03/20 23:05	n/a	Initial cal 50
E2P4366-IC4366	2P98006.D	12/03/20 23:31	n/a	Initial cal 25
E2P4366-IC4366	2P98007.D	12/03/20 23:57	n/a	Initial cal 10
E2P4366-IC4366	2P98008.D	12/04/20 00:23	n/a	Initial cal 5
E2P4366-IC4366	2P98009.D	12/04/20 00:50	n/a	Initial cal 2
E2P4366-IC4366	2P98010.D	12/04/20 01:16	n/a	Initial cal 1

Run Sequence Report

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Run ID: E2P4367	**Method:** SW846 8270E	**Instrument ID:** GCMS2P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E2P4367-DFTPP	2P98012.D	12/04/20 02:05	n/a	DFTPP Tune
E2P4367-IC4367	2P98013.D	12/04/20 02:16	n/a	Initial cal 100
E2P4367-IC4367	2P98014.D	12/04/20 02:42	n/a	Initial cal 80
E2P4367-ICC4367	2P98015.D	12/04/20 03:08	n/a	Initial cal 50
E2P4367-IC4367	2P98016.D	12/04/20 03:34	n/a	Initial cal 25
E2P4367-IC4367	2P98017.D	12/04/20 04:00	n/a	Initial cal 10
E2P4367-IC4367	2P98018.D	12/04/20 04:26	n/a	Initial cal 5
E2P4367-IC4367	2P98019.D	12/04/20 04:53	n/a	Initial cal 2
E2P4367-IC4367	2P98020.D	12/04/20 05:19	n/a	Initial cal 1
E2P4367-ICV4367	2P98021.D	12/04/20 05:45	n/a	Initial cal verification 50
E2P4367-ICV4367	2P98022.D	12/04/20 06:11	n/a	Initial cal verification 50
E2P4367-ICV4366	2P98023A.D	12/04/20 06:37	n/a	Initial cal verification 50
E2P4367-ICV4367	2P98023.D	12/04/20 06:37	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Run ID: E2P4412	**Method:** SW846 8270E	**Instrument ID:** GCMS2P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E2P4412-DFTPP	2P98981.D	01/15/21 12:35	n/a	DFTPP Tune
E2P4412-CC4365	2P98982.D	01/15/21 12:45	n/a	Continuing cal 25
E2P4412-CC4366	2P98983.D	01/15/21 13:11	n/a	Continuing cal 25
E2P4412-CC4367	2P98984.D	01/15/21 13:37	n/a	Continuing cal 25
OP31540-MB1	2P98985.D	01/15/21 14:46	OP31540	Method Blank
OP31540-BS1	2P98987.D	01/15/21 15:41	OP31540	Blank Spike
OP31540-BSD	2P98988.D	01/15/21 16:33	OP31540	Blank Spike Duplicate
ZZZZZZ	2P98989.D	01/15/21 16:59	OP31540	(unrelated sample)
ZZZZZZ	2P98990.D	01/15/21 17:24	OP31540	(unrelated sample)
ZZZZZZ	2P98991.D	01/15/21 17:50	OP31540	(unrelated sample)
ZZZZZZ	2P98992.D	01/15/21 18:16	OP31540	(unrelated sample)
ZZZZZZ	2P98993.D	01/15/21 18:42	OP31540	(unrelated sample)
ZZZZZZ	2P98994.D	01/15/21 19:08	OP31540	(unrelated sample)
ZZZZZZ	2P98995.D	01/15/21 19:34	OP31540	(unrelated sample)
JD18939-1	2P98996.D	01/15/21 20:00	OP31540	S-10R
ZZZZZZ	2P98997.D	01/15/21 20:26	OP31540	(unrelated sample)
ZZZZZZ	2P98998.D	01/15/21 20:52	OP31540	(unrelated sample)
ZZZZZZ	2P98999.D	01/15/21 21:18	OP31540	(unrelated sample)
JD18939-2	2P99000.D	01/15/21 21:44	OP31540	S-15R
JD18939-3	2P99001.D	01/15/21 22:09	OP31540	S-18R
OP31540-MS	2P99002.D	01/15/21 22:35	OP31540	Matrix Spike
OP31540-MSD	2P99003.D	01/15/21 23:01	OP31540	Matrix Spike Duplicate
JD18961-8	2P99004.D	01/15/21 23:27	OP31540	(used for QC only; not part of job JD18939)
ZZZZZZ	2P99005.D	01/15/21 23:53	OP31540	(unrelated sample)

MS Semi-volatiles

Raw Data

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1 Inst : MS2P
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 03:52:18 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.434	152	494066	40.00	ppm	0.00
24) Naphthalene-d8	5.419	136	1732980	40.00	ppm	0.00
47) Acenaphthene-d10	7.344	164	976985	40.00	ppm	0.00
69) Phenanthrene-d10	9.462	188	1583724	40.00	ppm	0.00
83) Chrysene-d12	13.623	240	1425848	40.00	ppm	0.00
91) Perylene-d12	15.736	264	1500111	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.434	152	494066	40.00	ppm	0.00
103) Naphthalene-d8a	5.419	136	1732980	40.00	ppm	0.00
105) Acenaphthene-d10a	7.344	164	976985	40.00	ppm	0.00
107) Chrysene-d12a	13.623	240	1425848	40.00	ppm	0.00
109) Phenanthrene-d10a	9.462	188	1583724	40.00	ppm	0.00
112) 1,4-Dichlorobenzene-d4b	4.434	152	494066	40.00	ppm	0.00
115) Acenaphthene-d10b	7.344	164	976985	40.00	ppm	0.00
117) Phenanthrene-d10b	9.462	188	1583724	40.00	ppm	0.00
120) Chrysene-d12b	13.623	240	1425848	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.520	112	435867	25.89	ppm	0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 51.78%			
8) Phenol-d5	4.226	99	535604	25.12	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 50.24%			
25) Nitrobenzene-d5	4.841	82	671342	34.51	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 69.02%#			
51) 2-Fluorobiphenyl	6.526	172	935751	29.12	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 58.24%#			
73) 2,4,6-Tribromophenol	8.451	330	184125	32.15	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 64.30%			
85) Terphenyl-d14	12.013	244	1250491	37.66	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 75.32%#			
118) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
119) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
Target Compounds						Qvalue
38) Naphthalene	5.435	128	20460	0.47	ppm	99
44) 2-Methylnaphthalene	6.114	141	4307	0.19	ppm	90
56) Acenaphthylene	7.157	152	56256	1.26	ppm	98
59) Acenaphthene	7.387	153	5583	0.19	ppm	91
62) Dibenzofuran	7.628	168	5847	0.15	ppm	91
66) Fluorene	8.098	166	11160	0.35	ppm	96
77) Phenanthrene	9.494	178	148089	3.52	ppm	99
78) Anthracene	9.575	178	51864	1.23	ppm	99
79) Carbazole	9.874	167	11263	0.28	ppm	96
81) Fluoranthene	11.340	202	415366	8.99	ppm	99
84) Pyrene	11.682	202	434333	10.27	ppm	99
87) Benzo[a]anthracene	13.607	228	243560	5.88	ppm	99
89) Chrysene	13.656	228	239895	6.04	ppm	96
93) Benzo[b]fluoranthene	15.217	252	314425	7.02	ppm	98
94) Benzo[k]fluoranthene	15.249	252	102775	2.49	ppm	94
95) Benzo[a]pyrene	15.651	252	223256	5.74	ppm	98
96) Indeno[1,2,3-cd]pyrene	17.095	276	152310	3.65	ppm	96
98) Dibenz[a,h]anthracene	17.116	278	41167	0.95	ppm	99
100) Benzo[g,h,i]perylene	17.437	276	144831	3.52	ppm	98

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1 Inst : MS2P
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 03:52:18 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

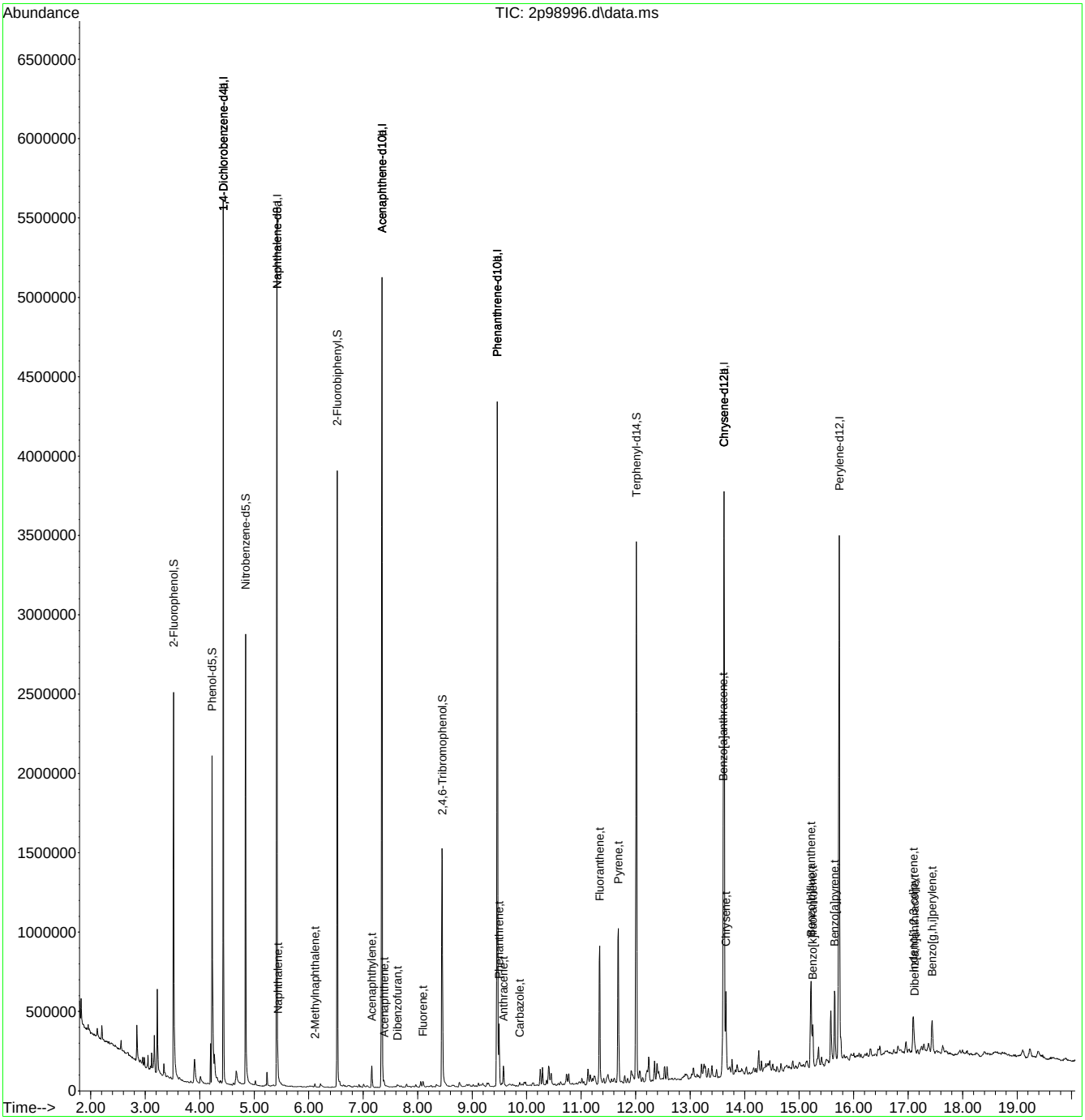
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

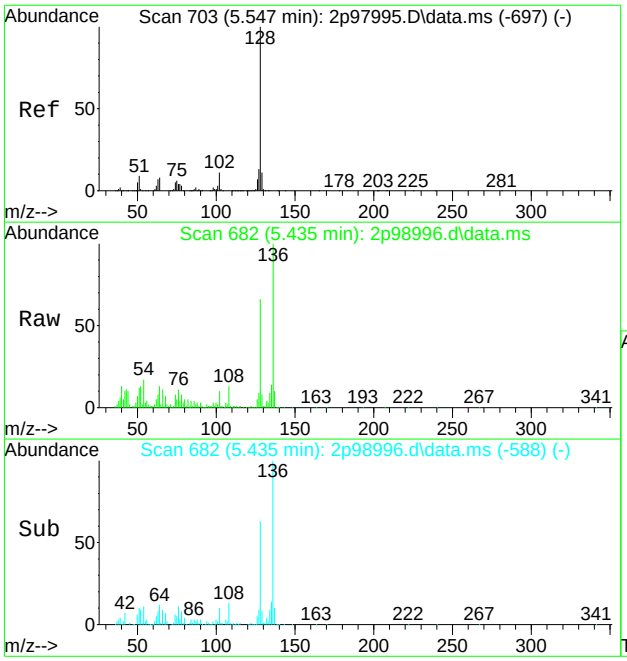
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1 Inst : MS2P
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 03:52:18 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

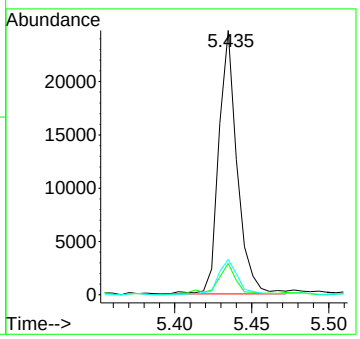


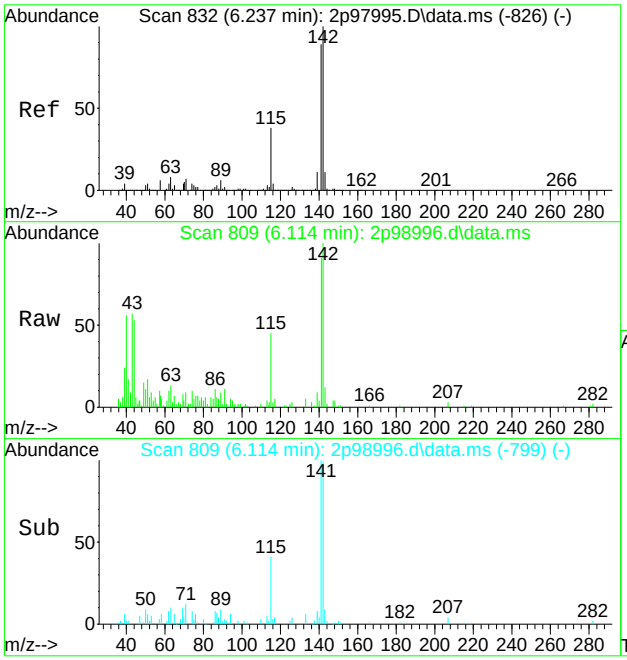


#38
Naphthalene
Concen: 0.47 ppm
RT: 5.435 min Scan# 682
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:128 Resp: 20460

Ion	Ratio	Lower	Upper
128	100		
129	11.6	0.0	41.2
127	13.3	0.0	43.7

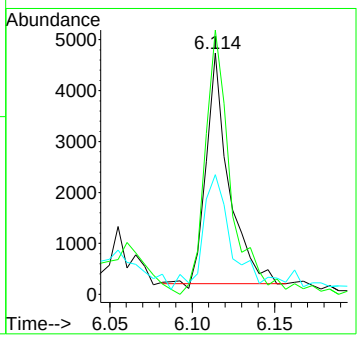


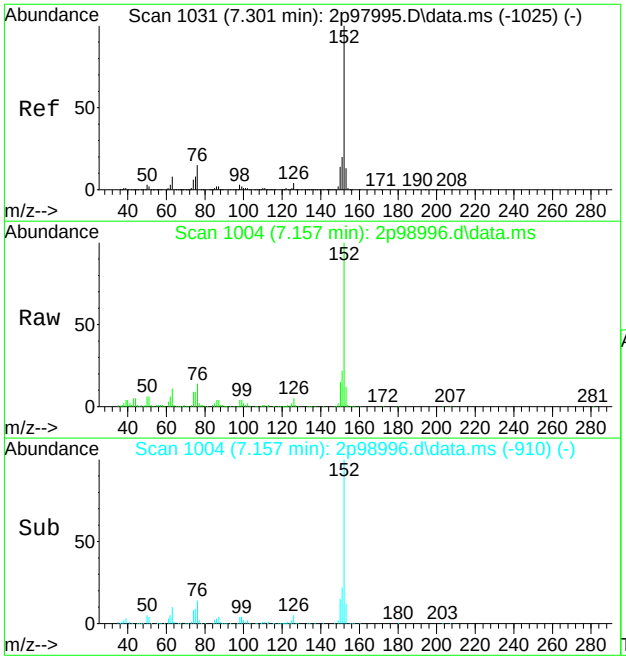


#44
2-Methylnaphthalene
Concen: 0.19 ppm
RT: 6.114 min Scan# 809
Delta R.T. 0.006 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:141 Resp: 4307

Ion	Ratio	Lower	Upper
141	100		
142	111.7	88.6	148.6
115	45.0	27.1	87.1

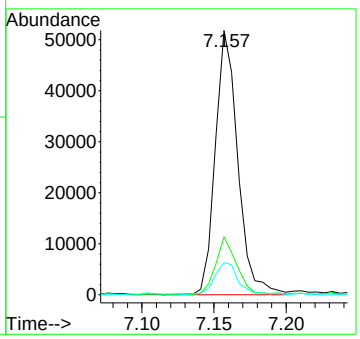


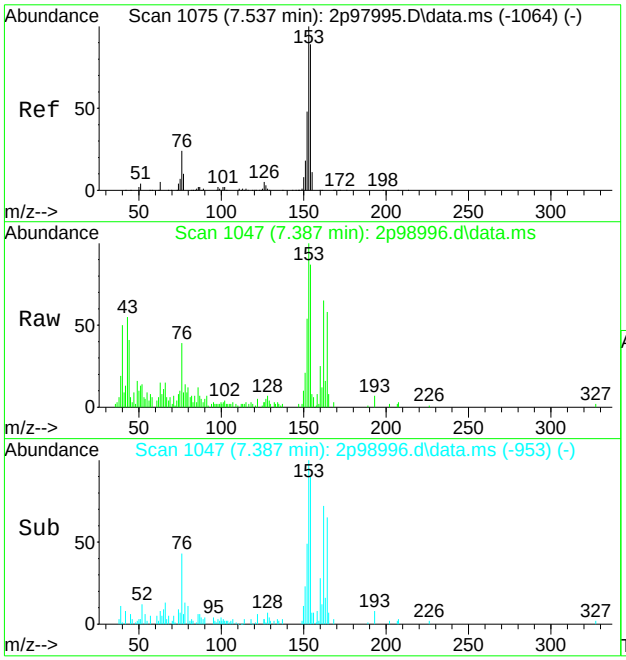


#56
Acenaphthylene
Concen: 1.26 ppm
RT: 7.157 min Scan# 1004
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:152 Resp: 56256

Ion	Ratio	Lower	Upper
152	100		
151	21.8	0.0	50.7
153	12.0	0.0	42.9

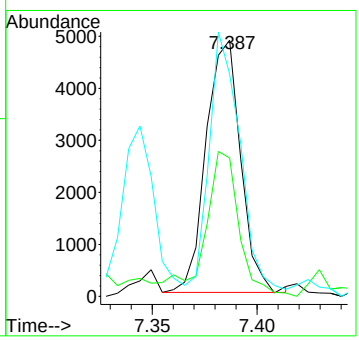


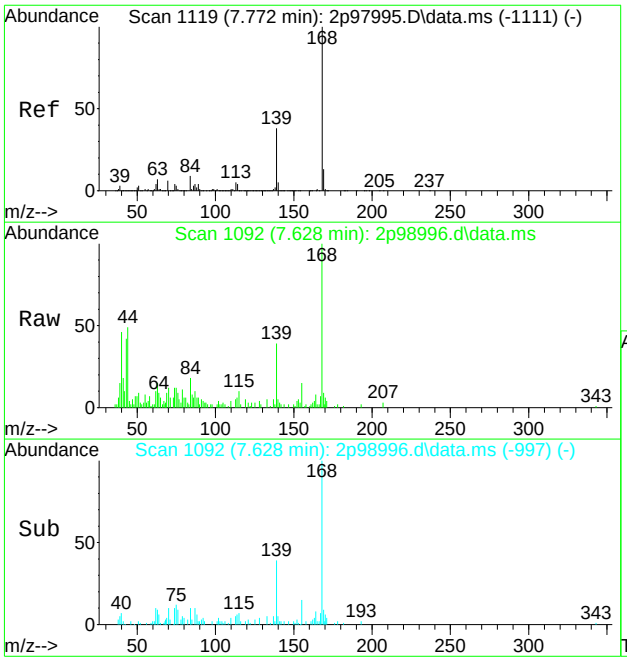


#59
Acenaphthene
Concen: 0.19 ppm
RT: 7.387 min Scan# 1047
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:153 Resp: 5583

Ion	Ratio	Lower	Upper
153	100		
152	52.1	18.0	78.0
154	80.8	60.1	120.1

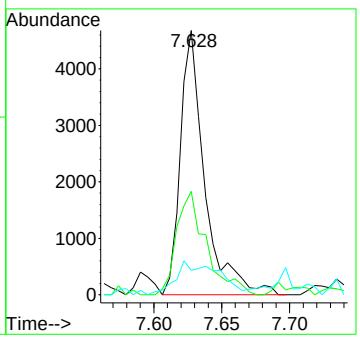


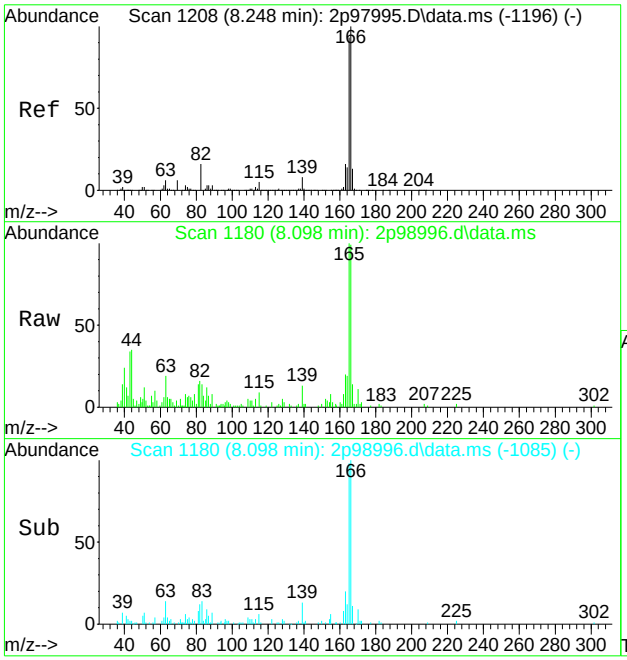


#62
Dibenzofuran
Concen: 0.15 ppm
RT: 7.628 min Scan# 1092
Delta R.T. 0.006 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:168 Resp: 5847

Ion	Ratio	Lower	Upper
168	100		
139	37.1	10.6	70.6
169	5.2	0.0	42.9

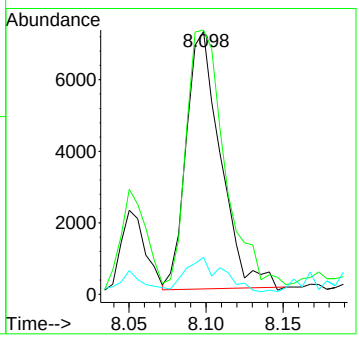


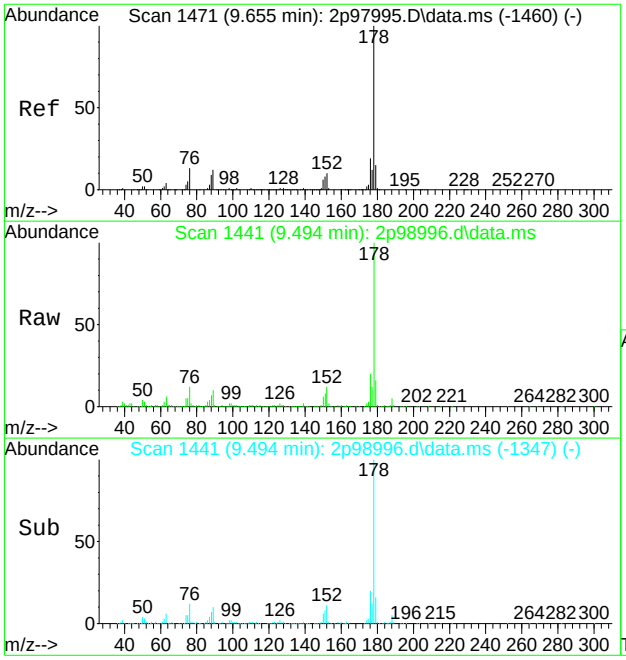


#66
Fluorene
Concen: 0.35 ppm
RT: 8.098 min Scan# 1180
Delta R.T. 0.006 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:166 Resp: 11160

Ion	Ratio	Lower	Upper
166	100		
165	99.7	65.3	125.3
167	11.9	0.0	43.3

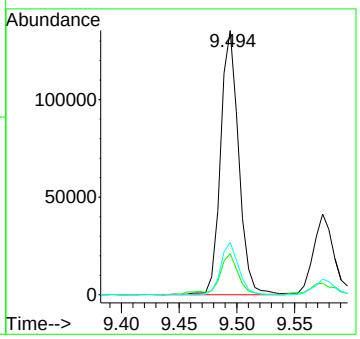


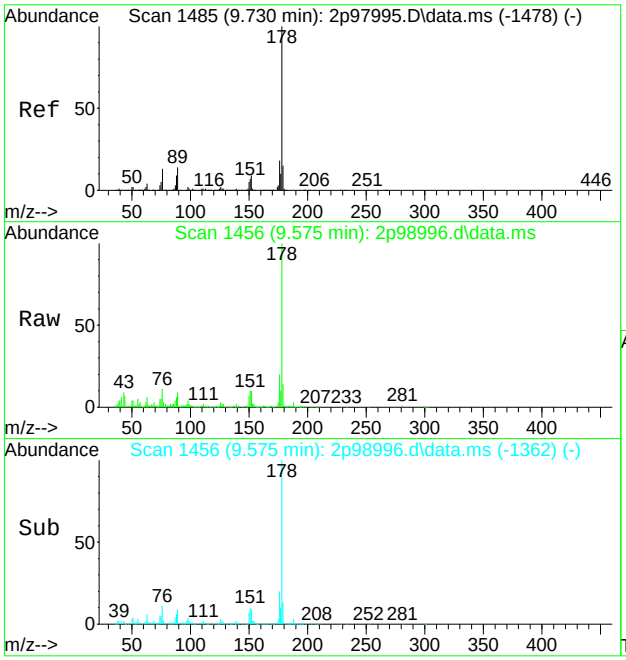


#77
Phenanthrene
Concen: 3.52 ppm
RT: 9.494 min Scan# 1441
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:178 Resp: 148089

Ion	Ratio	Lower	Upper
178	100		
179	15.5	0.0	44.9
176	19.9	0.0	49.2

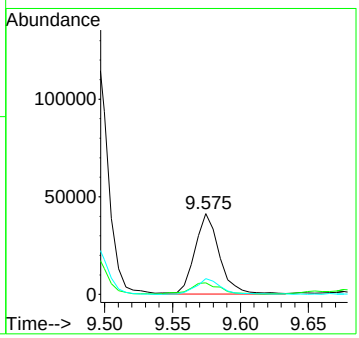


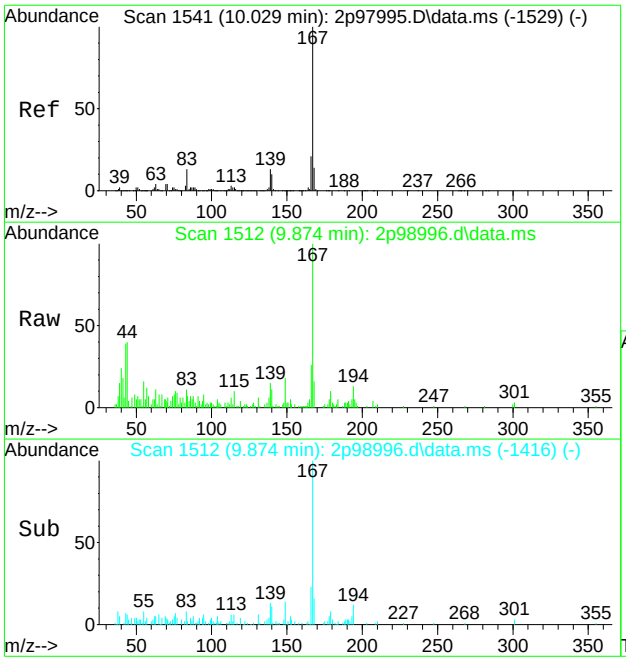


#78
Anthracene
Concen: 1.23 ppm
RT: 9.575 min Scan# 1456
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:178 Resp: 51864

Ion	Ratio	Lower	Upper
178	100		
179	13.8	0.0	44.8
176	19.4	0.0	49.1

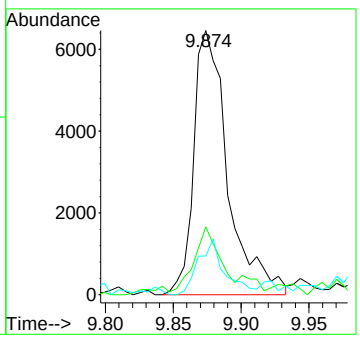


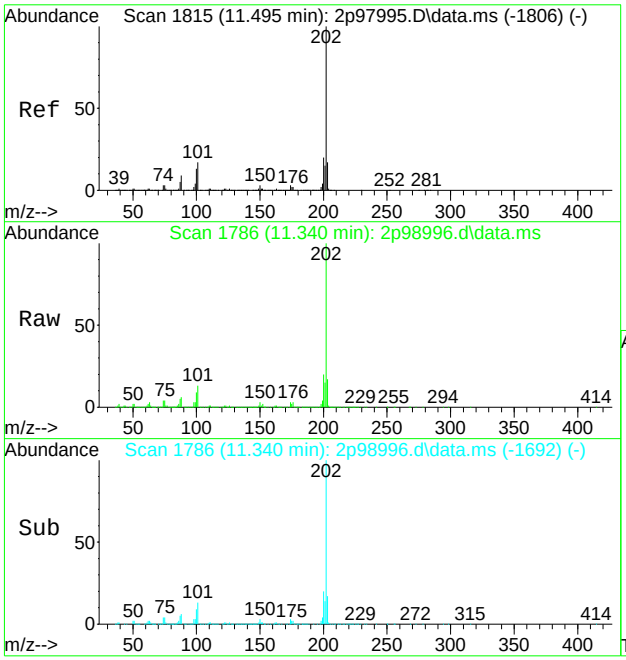


#79
Carbazole
Concen: 0.28 ppm
RT: 9.874 min Scan# 1512
Delta R.T. 0.011 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:167 Resp: 11263

Ion	Ratio	Lower	Upper
167	100		
166	22.7	0.0	51.3
139	12.5	0.0	44.4

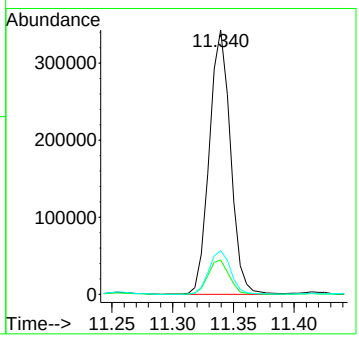


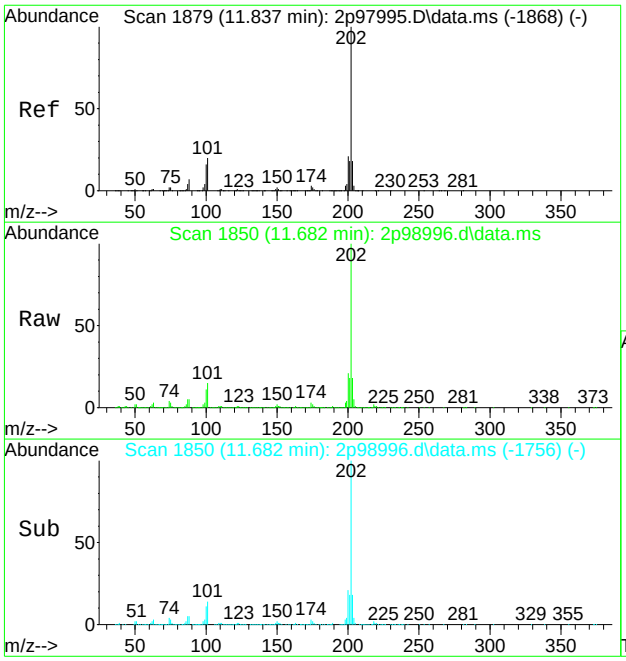


#81
Fluoranthene
Concen: 8.99 ppm
RT: 11.340 min Scan# 1786
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:202 Resp: 415366

Ion	Ratio	Lower	Upper
202	100		
101	13.0	0.0	43.7
203	16.6	0.0	46.5

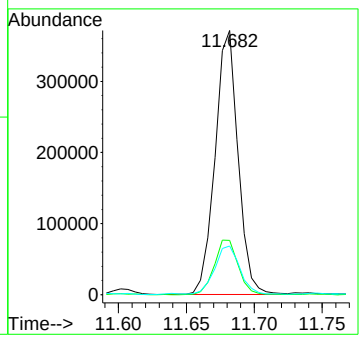


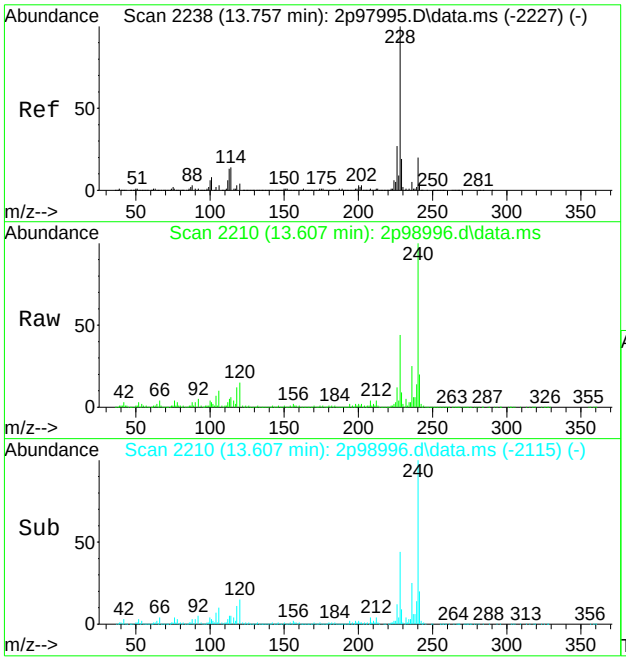


#84
Pyrene
Concen: 10.27 ppm
RT: 11.682 min Scan# 1850
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:202 Resp: 434333

Ion	Ratio	Lower	Upper
202	100		
200	20.5	0.0	50.9
203	18.2	0.0	47.9

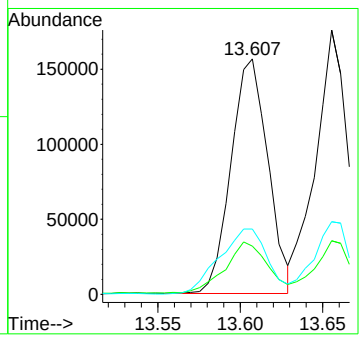


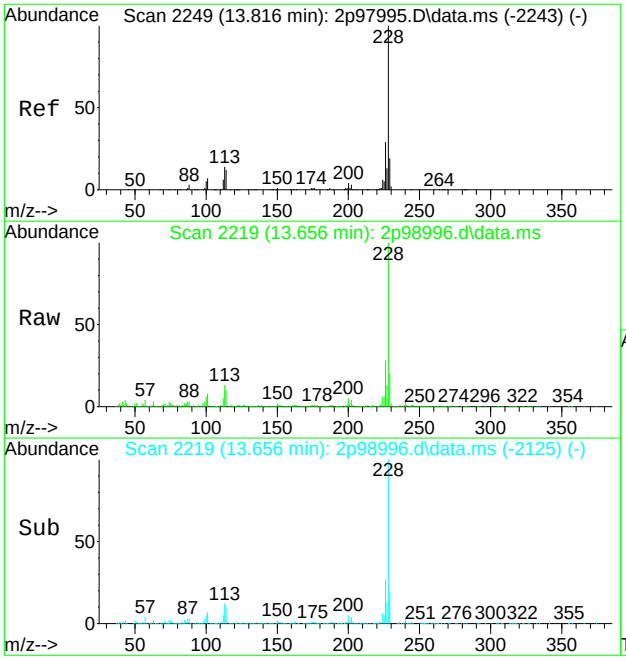


#87
Benzo[a]anthracene
Concen: 5.88 ppm
RT: 13.607 min Scan# 2210
Delta R.T. 0.006 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:228 Resp: 243560

Ion	Ratio	Lower	Upper
228	100		
229	19.4	0.0	50.0
226	27.2	0.0	56.8

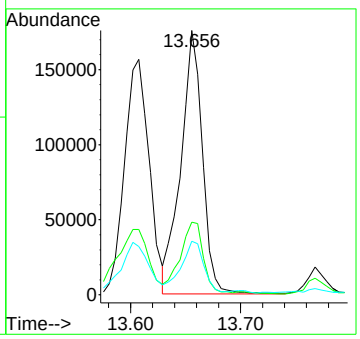


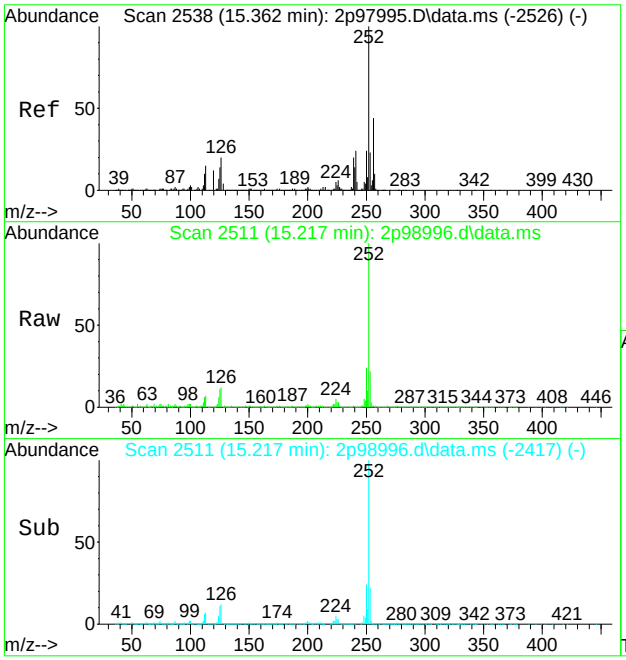


#89
Chrysene
Concen: 6.04 ppm
RT: 13.656 min Scan# 2219
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:228 Resp: 239895

Ion	Ratio	Lower	Upper
228	100		
226	26.9	0.3	60.3
229	19.0	0.0	49.6

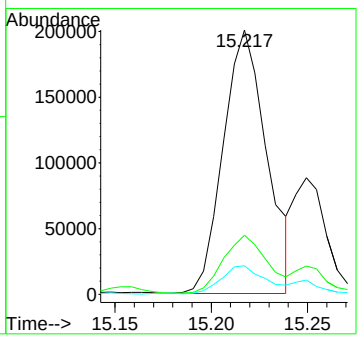


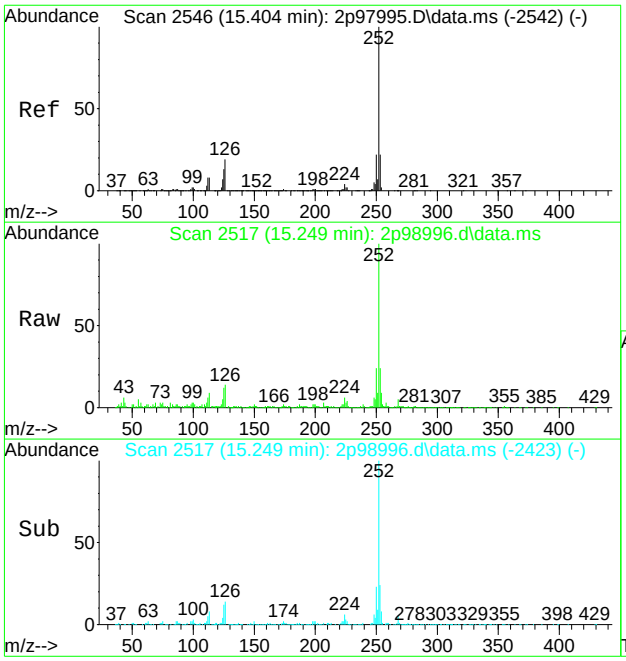


#93
Benzo[b]fluoranthene
Concen: 7.02 ppm
RT: 15.217 min Scan# 2511
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:252 Resp: 314425

Ion	Ratio	Lower	Upper
252	100		
253	22.1	0.0	51.4
125	10.5	0.0	39.2

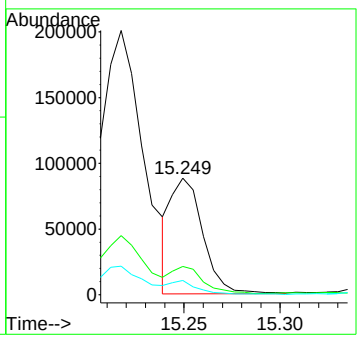


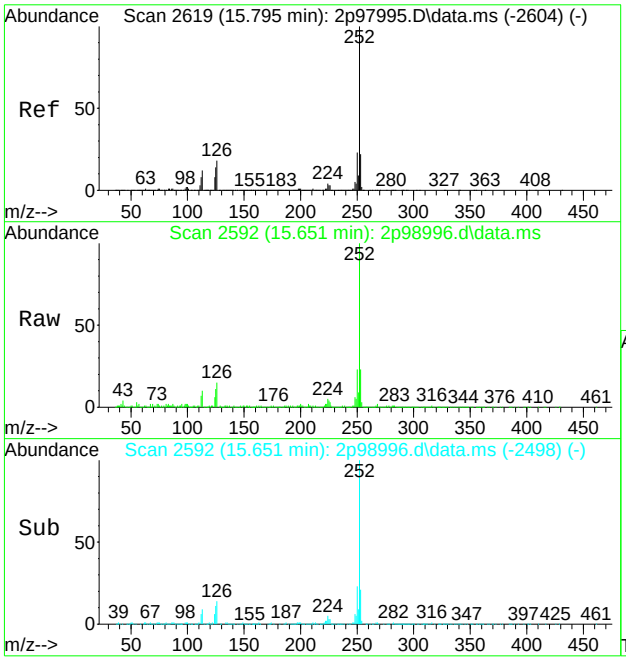


#94
Benzo[k]fluoranthene
Concen: 2.49 ppm
RT: 15.249 min Scan# 2517
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:252 Resp: 102775

Ion	Ratio	Lower	Upper
252	100		
253	24.5	0.0	51.6
125	12.5	0.0	40.9

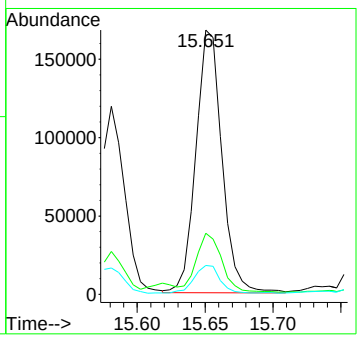


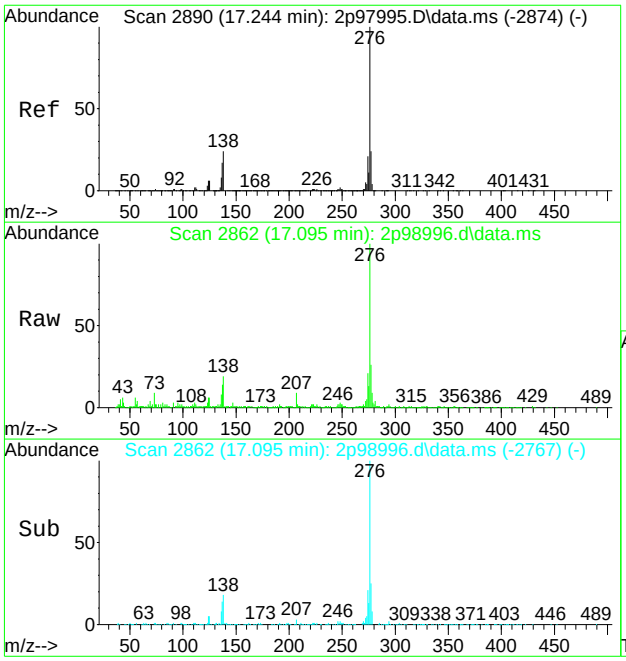


#95
Benzo[a]pyrene
Concen: 5.74 ppm
RT: 15.651 min Scan# 2592
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:252 Resp: 223256

Ion	Ratio	Lower	Upper
252	100		
253	20.8	0.0	51.7
125	10.6	0.0	41.0

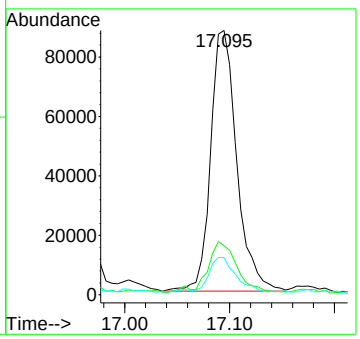


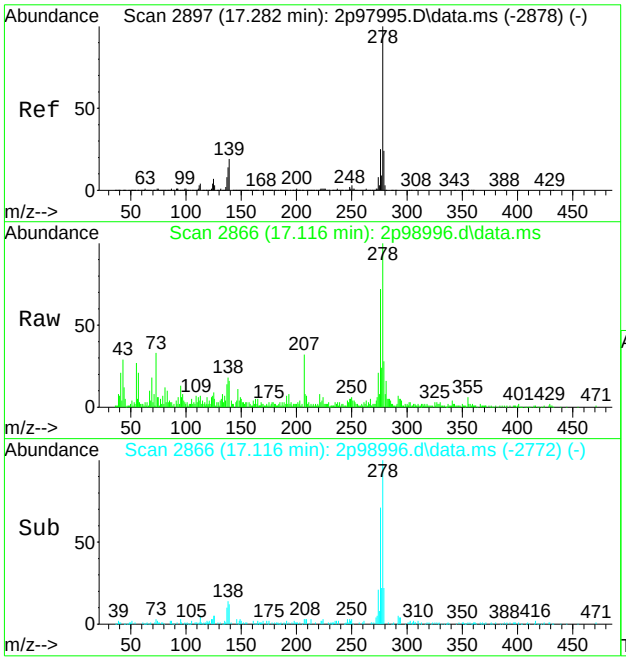


#96
Indeno[1,2,3-cd]pyrene
Concen: 3.65 ppm
RT: 17.095 min Scan# 2862
Delta R.T. 0.006 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:276 Resp: 152310

Ion	Ratio	Lower	Upper
276	100		
138	17.8	0.0	49.6
137	12.7	0.0	44.3

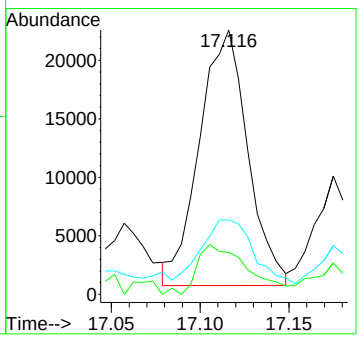


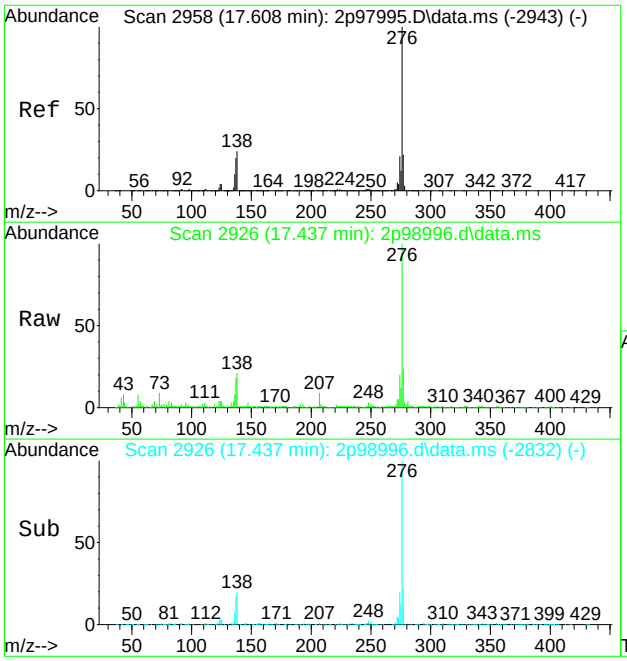


#98
Dibenz[a,h]anthracene
Concen: 0.95 ppm
RT: 17.116 min Scan# 2866
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:278 Resp: 41167

Ion	Ratio	Lower	Upper
278	100		
139	15.8	0.0	45.6
279	23.0	0.0	53.3

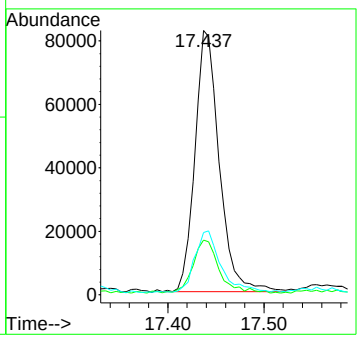




#100
Benzo[g,h,i]perylene
Concen: 3.52 ppm
RT: 17.437 min Scan# 2926
Delta R.T. 0.000 min
Lab File: 2p98996.d
Acq: 15 Jan 2021 8:00 pm

Tgt Ion:276 Resp: 144831

Ion	Ratio	Lower	Upper
276	100		
138	20.1	0.0	51.4
277	22.7	0.0	53.7



LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p98996.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	5	7	23	rVB2	192857	258740	4.76%	0.430%
2	2.119	60	62	74	rVV2	63898	82918	1.52%	0.138%
3	2.204	75	78	89	rVB2	104262	126205	2.32%	0.210%
4	2.557	141	144	152	rVB3	70127	73006	1.34%	0.121%
5	2.846	194	198	208	rVB3	234877	256663	4.72%	0.426%
6	2.985	221	224	229	rVB3	67690	62649	1.15%	0.104%
7	3.049	231	236	241	rVB2	89795	91043	1.67%	0.151%
8	3.119	243	249	252	rBV2	105816	105433	1.94%	0.175%
9	3.167	253	258	263	rVB	235028	241551	4.44%	0.401%
10	3.220	264	268	285	rVB	543213	540664	9.94%	0.898%
11	3.343	287	291	299	rVB2	83801	101928	1.87%	0.169%
12	3.520	319	324	341	rVV	2439632	2183261	40.15%	3.627%
13	3.905	389	396	413	rVB	151594	280128	5.15%	0.465%
14	4.012	413	416	432	rVB	46574	96302	1.77%	0.160%
15	4.199	448	451	453	rBV	257279	155431	2.86%	0.258%
16	4.226	453	456	463	rBV	2058055	1995510	36.70%	3.315%
17	4.269	463	464	472	rVB	150287	149913	2.76%	0.249%
18	4.429	489	494	508	rVB	5574840	4187614	77.01%	6.957%
19	4.670	534	539	559	rVV2	91415	253628	4.66%	0.421%
20	4.841	565	571	598	rVV	2845549	2353392	43.28%	3.910%
21	5.237	641	645	656	rVB	89803	93251	1.71%	0.155%
22	5.419	671	679	700	rVV	5542754	4760396	87.55%	7.908%
23	6.526	877	886	899	rBV	3884451	3411770	62.74%	5.668%
24	7.157	998	1004	1015	rVB	138171	161804	2.98%	0.269%
25	7.344	1029	1039	1059	rBV	5106749	4911712	90.33%	8.160%
26	8.055	1167	1172	1176	rBV5	36823	51893	0.95%	0.086%
27	8.098	1176	1180	1189	rVB2	36311	60297	1.11%	0.100%
28	8.446	1240	1245	1268	rBV	1500068	1894595	34.84%	3.147%
29	8.767	1300	1305	1316	rBV3	29369	56696	1.04%	0.094%
30	9.462	1428	1435	1439	rVV2	4317631	4847321	89.14%	8.053%
31	9.494	1439	1441	1448	rVV	396962	399290	7.34%	0.663%
32	9.575	1448	1456	1467	rVV2	128621	198452	3.65%	0.330%
33	10.248	1576	1582	1586	rBV	104704	123632	2.27%	0.205%
34	10.291	1586	1590	1598	rVB	111379	124242	2.28%	0.206%
35	10.404	1606	1611	1616	rVV2	114193	182316	3.35%	0.303%
36	10.446	1616	1619	1628	rVB	72872	103841	1.91%	0.173%
37	10.730	1665	1672	1676	rBV	66068	104890	1.93%	0.174%
38	10.773	1676	1680	1690	rVB2	67459	94223	1.73%	0.157%
39	11.126	1738	1746	1750	rBV2	103062	154583	2.84%	0.257%
40	11.168	1750	1754	1758	rVB5	44450	56275	1.03%	0.093%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

41	11.238	1764	1767	1777	rVB4	54534	133495	2.46%	0.222%
42	11.340	1777	1786	1795	rBV	873826	1153859	21.22%	1.917%
43	11.489	1804	1814	1823	rBV2	57061	150830	2.77%	0.251%
44	11.682	1844	1850	1858	rBV	970563	1238010	22.77%	2.057%
45	11.800	1868	1872	1877	rBV3	47913	67522	1.24%	0.112%
46	11.917	1888	1894	1904	rBV6	78313	215006	3.95%	0.357%
47	12.013	1904	1912	1920	rBV	3387072	3921278	72.11%	6.514%
48	12.072	1920	1923	1929	rVB2	68569	116847	2.15%	0.194%
49	12.211	1939	1949	1951	rBV4	75969	159337	2.93%	0.265%
50	12.238	1951	1954	1961	rVB	154698	207827	3.82%	0.345%
51	12.345	1968	1974	1979	rBV	127538	170448	3.13%	0.283%
52	12.393	1979	1983	1987	rBV	100598	142237	2.62%	0.236%
53	12.425	1987	1989	1997	rVB3	51963	58023	1.07%	0.096%
54	12.532	2005	2009	2013	rVB	78901	100861	1.85%	0.168%
55	12.575	2013	2017	2023	rVB2	86107	110799	2.04%	0.184%
56	12.933	2082	2084	2092	rVB7	33597	59955	1.10%	0.100%
57	13.030	2092	2102	2104	rBV9	35684	67097	1.23%	0.111%
58	13.062	2104	2108	2117	rVB2	59312	93591	1.72%	0.155%
59	13.212	2130	2136	2139	rBV	88658	123574	2.27%	0.205%
60	13.254	2139	2144	2147	rBV2	62532	90283	1.66%	0.150%
61	13.335	2154	2159	2165	rVB3	58645	82025	1.51%	0.136%
62	13.399	2165	2171	2178	rBV	75701	113734	2.09%	0.189%
63	13.484	2184	2187	2192	rVB	53644	62308	1.15%	0.104%
64	13.623	2199	2213	2217	rBV	3692449	5437623	100.00%	9.033%
65	13.656	2217	2219	2226	rVV	505497	574033	10.56%	0.954%
66	13.768	2236	2240	2246	rVB	95314	114041	2.10%	0.189%
67	13.864	2254	2258	2265	rBV4	48296	68866	1.27%	0.114%
68	13.944	2271	2273	2283	rVB4	35422	64887	1.19%	0.108%
69	14.035	2283	2290	2296	rVB6	46689	75887	1.40%	0.126%
70	14.169	2309	2315	2319	rBV7	33399	56786	1.04%	0.094%
71	14.260	2325	2332	2337	rBV	139353	206189	3.79%	0.343%
72	14.308	2337	2341	2345	rVB	68361	77318	1.42%	0.128%
73	14.463	2366	2370	2376	rVB3	62522	90701	1.67%	0.151%
74	14.517	2376	2380	2385	rBV6	41255	53969	0.99%	0.090%
75	14.592	2391	2394	2401	rVB2	35958	53586	0.99%	0.089%
76	14.666	2403	2408	2417	rBV3	52122	84351	1.55%	0.140%
77	14.886	2444	2449	2455	rBV7	51066	70027	1.29%	0.116%
78	15.009	2466	2472	2479	rBV8	32188	78050	1.44%	0.130%
79	15.142	2490	2497	2505	rVB10	43122	107434	1.98%	0.178%
80	15.217	2505	2511	2515	rBV	545805	894386	16.45%	1.486%
81	15.249	2515	2517	2524	rVB	263607	298128	5.48%	0.495%
82	15.356	2527	2537	2542	rBV2	119457	219119	4.03%	0.364%
83	15.410	2544	2547	2556	rVB	60495	102490	1.88%	0.170%
84	15.501	2557	2564	2571	rBV5	43678	131421	2.42%	0.218%
85	15.581	2574	2579	2586	rBV	328009	488016	8.97%	0.811%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

86	15.651	2587	2592	2600	rVV	434180	586962	10.79%	0.975%
87	15.736	2600	2608	2620	rVV	3297275	4394558	80.82%	7.300%
88	15.955	2643	2649	2652	rBV7	41169	82597	1.52%	0.137%
89	16.303	2711	2714	2722	rVB4	46842	77621	1.43%	0.129%
90	16.448	2737	2741	2743	rBV5	45548	64101	1.18%	0.106%
91	16.480	2745	2747	2752	rVB2	58863	70782	1.30%	0.118%
92	16.811	2805	2809	2815	rBV7	46772	85888	1.58%	0.143%
93	16.961	2831	2837	2842	rBV4	74420	130348	2.40%	0.217%
94	17.095	2857	2862	2873	rVB3	232403	473137	8.70%	0.786%
95	17.287	2895	2898	2904	rVV3	42656	64416	1.18%	0.107%
96	17.373	2910	2914	2921	rVV9	56990	109809	2.02%	0.182%
97	17.442	2921	2927	2936	rVB	209248	371935	6.84%	0.618%
98	17.635	2958	2963	2969	rBV	51575	97425	1.79%	0.162%
99	19.234	3256	3262	3272	rVB2	51261	125145	2.30%	0.208%
100	19.384	3285	3290	3301	rVB4	32917	87744	1.61%	0.146%

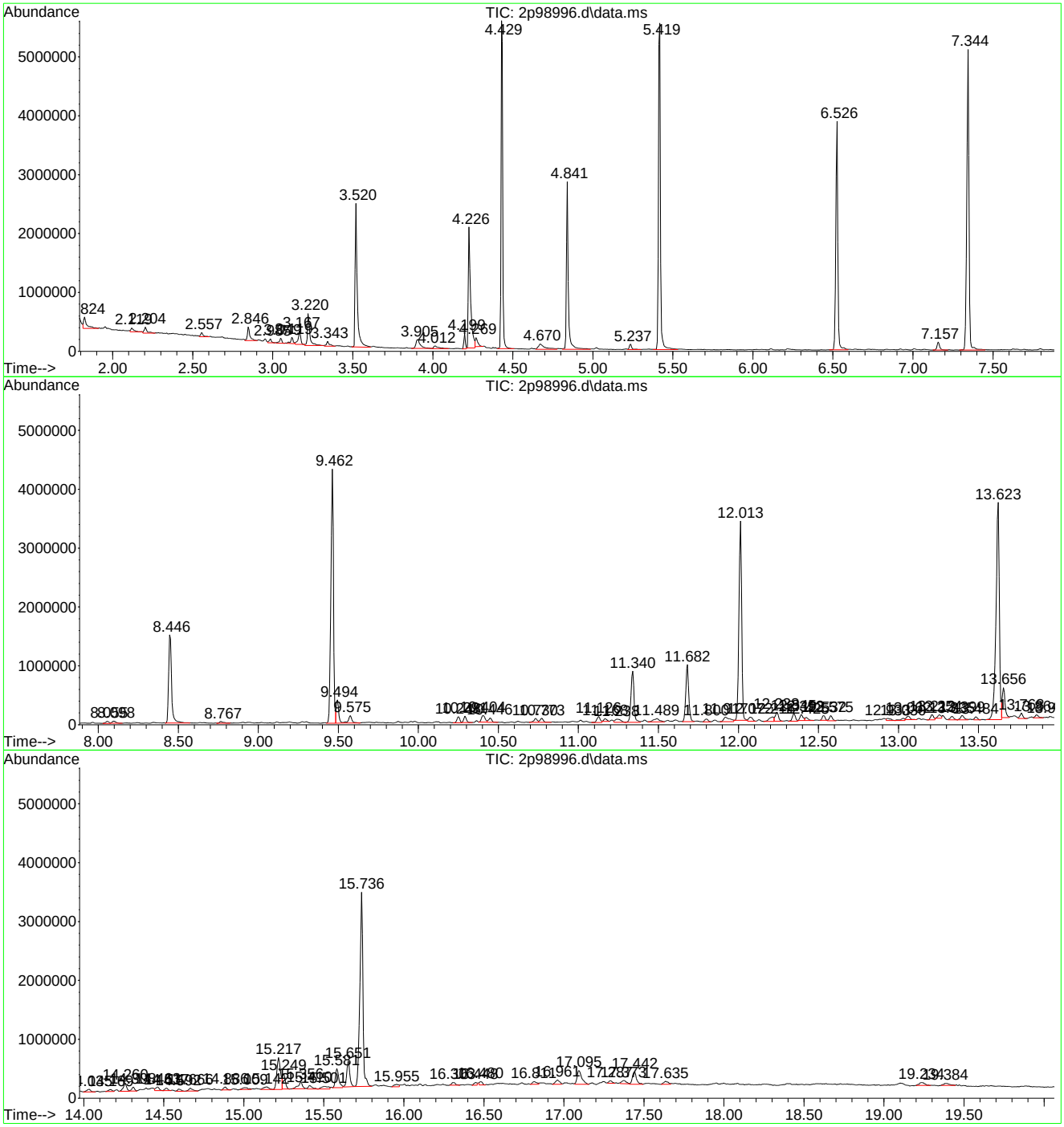
Sum of corrected areas: 60196180

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

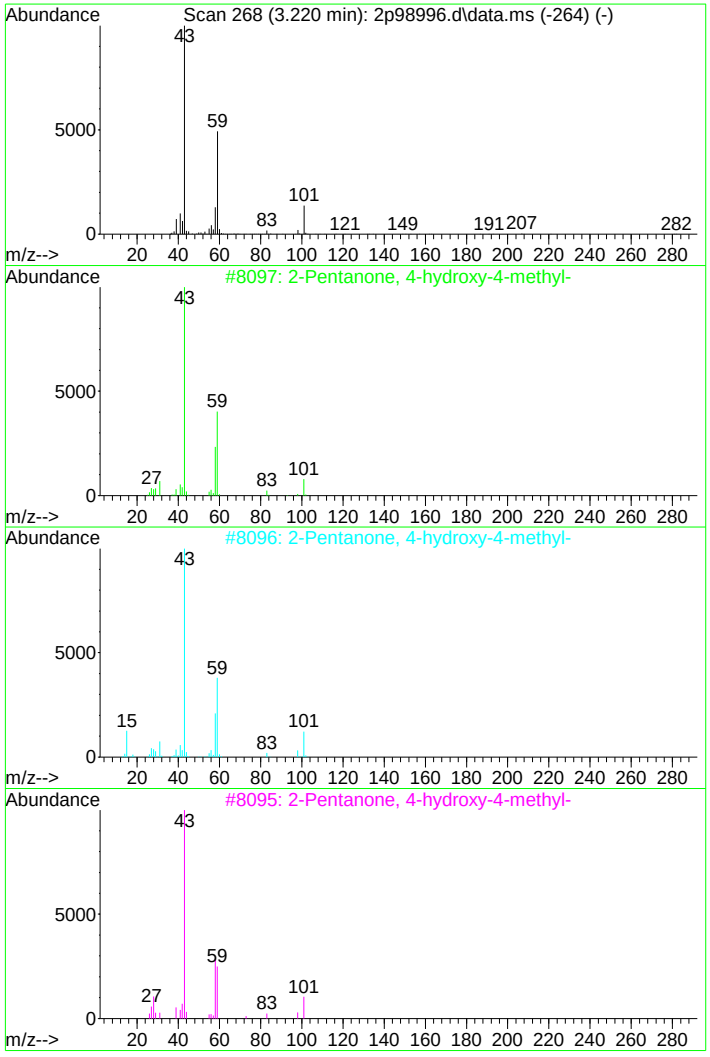
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

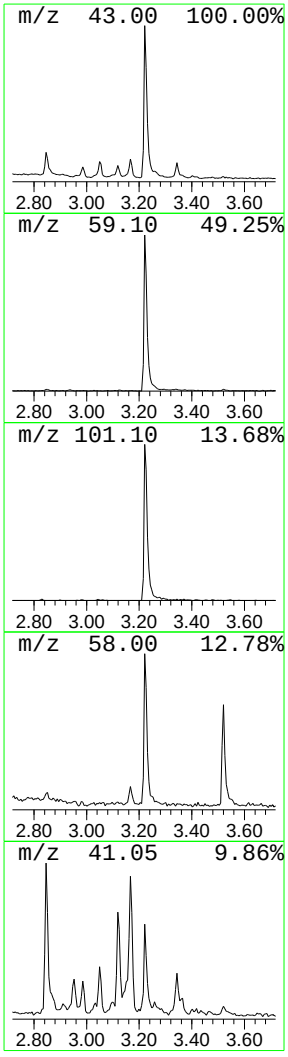
****

Peak Number 1 System artifact/aldol-conde... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.220	5.16 ppm	540664	1,4-Dichlorobenzene-d4a	4.434

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	25
4	1-Butene, 4-ethoxy-	100	C6H12O	044611-46-3	23
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

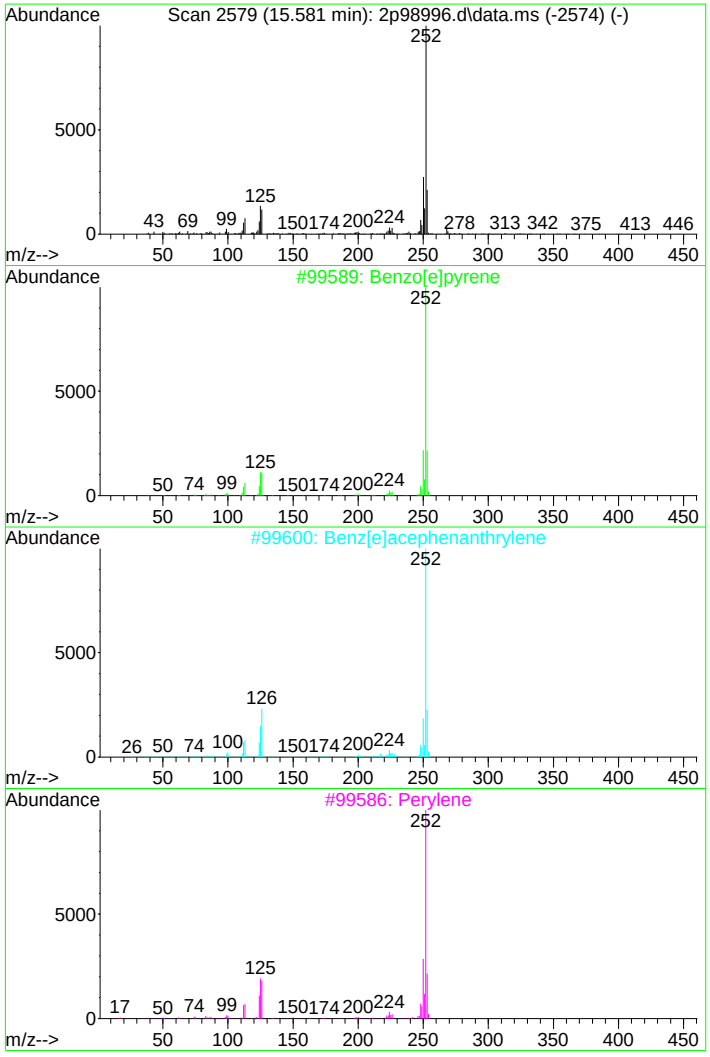
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

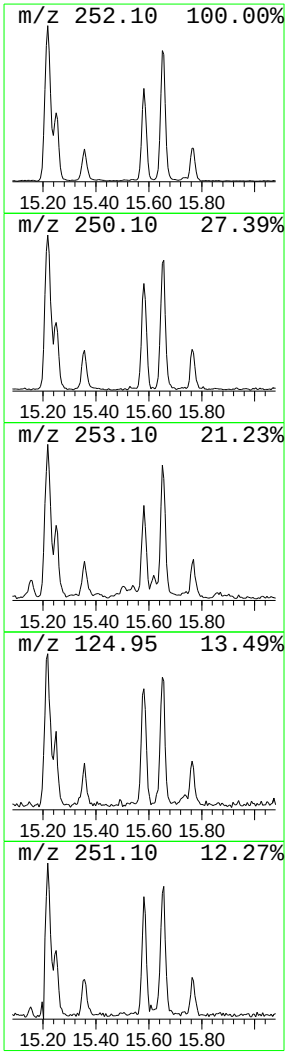
****

Peak Number 2 Unknown PAH substance Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.581	4.44 ppm	488016	Perylene-d12	15.736

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
3	Perylene	252	C20H12	000198-55-0	90
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Benzo[e]pyrene	252	C20H12	000192-97-2	90





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98996.d
Acq On : 15 Jan 2021 8:00 pm
Operator : hennys
Sample : jd18939-1
Misc : op31540,e2p4412,30.9,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact...	3.220	5.2	ppm	540664	2	4.434	4187610	40.0
Unknown PAH sub...	15.581	4.4	ppm	488016	15	15.736	4394560	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
01/18/21 10:19

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2 Inst : MS2P
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 04:05:25 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.429	152	350081	40.00	ppm	0.00
24) Naphthalene-d8	5.419	136	1281323	40.00	ppm	0.00
47) Acenaphthene-d10	7.344	164	743837	40.00	ppm	0.00
69) Phenanthrene-d10	9.462	188	1205170	40.00	ppm	0.00
83) Chrysene-d12	13.629	240	1126776	40.00	ppm	0.01
91) Perylene-d12	15.752	264	1255285	40.00	ppm	0.02
101) 1,4-Dichlorobenzene-d4a	4.429	152	350081	40.00	ppm	0.00
103) Naphthalene-d8a	5.419	136	1281323	40.00	ppm	0.00
105) Acenaphthene-d10a	7.344	164	743837	40.00	ppm	0.00
107) Chrysene-d12a	13.629	240	1126776	40.00	ppm	0.01
109) Phenanthrene-d10a	9.462	188	1205170	40.00	ppm	0.00
112) 1,4-Dichlorobenzene-d4b	4.429	152	350081	40.00	ppm	0.00
115) Acenaphthene-d10b	7.344	164	743812	40.00	ppm	0.00
117) Phenanthrene-d10b	9.462	188	1205170	40.00	ppm	0.00
120) Chrysene-d12b	13.629	240	1126776	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.515	112	271344	22.75	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 45.50%			
8) Phenol-d5	4.231	99	357172	23.64	ppm	0.01
Spiked Amount 50.000	Range 10 - 59		Recovery = 47.28%			
25) Nitrobenzene-d5	4.841	82	416842	28.98	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 57.96%			
51) 2-Fluorobiphenyl	6.526	172	601750	24.60	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 49.20%			
73) 2,4,6-Tribromophenol	8.451	330	117043	26.86	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 53.72%			
85) Terphenyl-d14	12.014	244	749146	28.55	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 57.10%			
118) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
119) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
Target Compounds						Qvalue
38) Naphthalene	5.435	128	20649	0.65	ppm	98
44) 2-Methylnaphthalene	6.109	141	14634	0.86	ppm	96
53) Biphenyl	6.638	154	7816	0.27	ppm	98
56) Acenaphthylene	7.157	152	51633	1.51	ppm	97
59) Acenaphthene	7.387	153	55897m	2.48	ppm	
62) Dibenzofuran	7.622	168	42865	1.42	ppm	97
66) Fluorene	8.093	166	76595	3.15	ppm	100
77) Phenanthrene	9.500	178	760757	23.74	ppm	99
78) Anthracene	9.575	178	215957	6.73	ppm	99
79) Carbazole	9.869	167	76520	2.54	ppm	99
81) Fluoranthene	11.345	202	1381559	39.28	ppm	99
84) Pyrene	11.687	202	1197101	35.81	ppm	97
87) Benzo[a]anthracene	13.618	228	594358	18.15	ppm	98
89) Chrysene	13.666	228	647144	20.63	ppm	98
90) bis(2-Ethylhexyl)phtha...	13.837	149	51196	2.34	ppm	93
93) Benzo[b]fluoranthene	15.233	252	894896	23.86	ppm	97
94) Benzo[k]fluoranthene	15.265	252	252480	7.30	ppm	94
95) Benzo[a]pyrene	15.672	252	586479	18.01	ppm	97
96) Indeno[1,2,3-cd]pyrene	17.121	276	441450	12.64	ppm	99
98) Dibenz[a,h]anthracene	17.138	278	115840	3.19	ppm	97
100) Benzo[g,h,i]perylene	17.480	276	425144	12.36	ppm	99

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2 Inst : MS2P
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 04:05:25 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

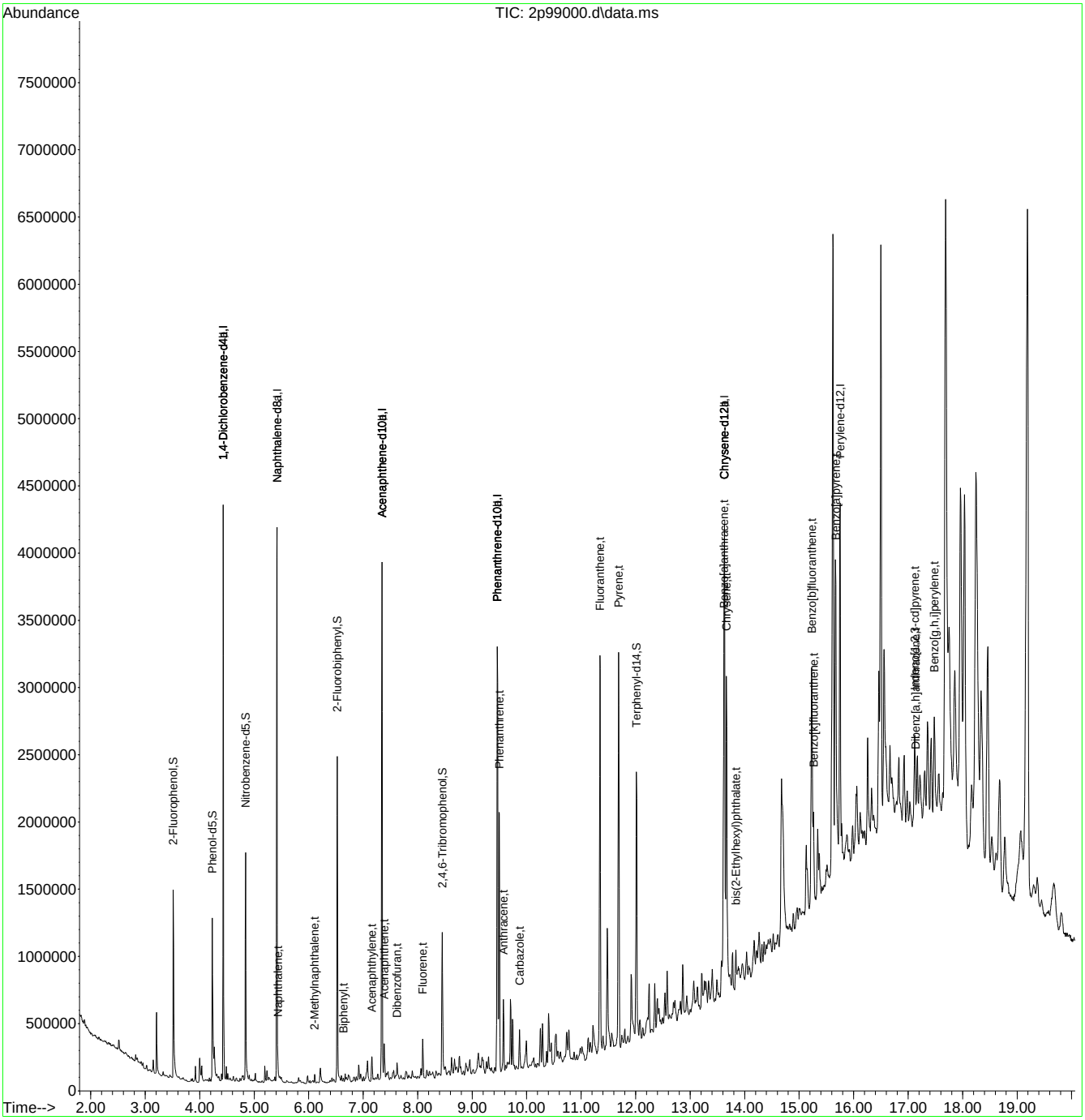
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

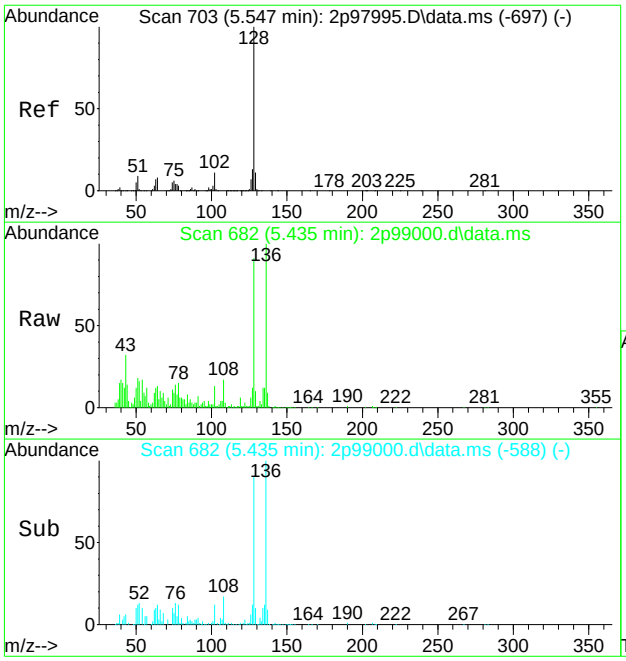
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2 Inst : MS2P
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 04:05:25 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

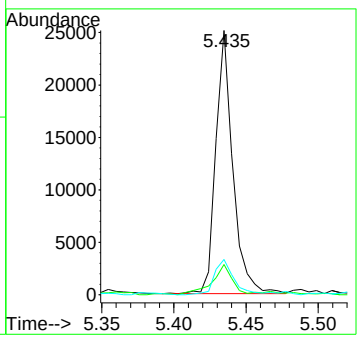


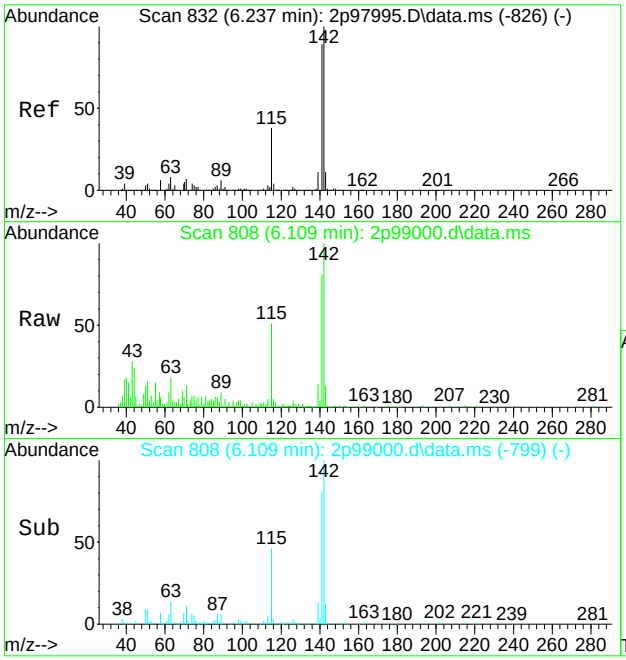


#38
Naphthalene
Concen: 0.65 ppm
RT: 5.435 min Scan# 682
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:128 Resp: 20649

Ion	Ratio	Lower	Upper
128	100		
129	10.9	0.0	41.2
127	12.5	0.0	43.7

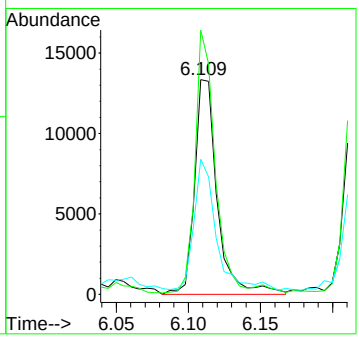


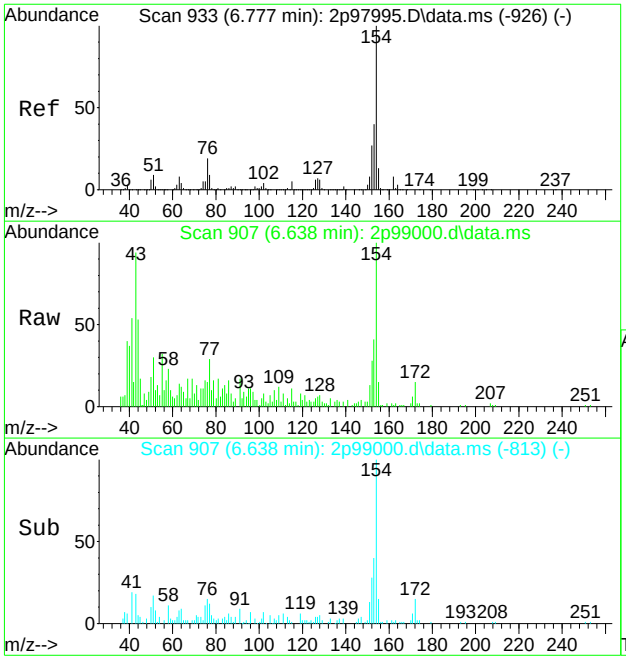


#44
2-Methylnaphthalene
Concen: 0.86 ppm
RT: 6.109 min Scan# 808
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:141 Resp: 14634

Ion	Ratio	Lower	Upper
141	100		
142	123.0	88.6	148.6
115	60.4	27.1	87.1

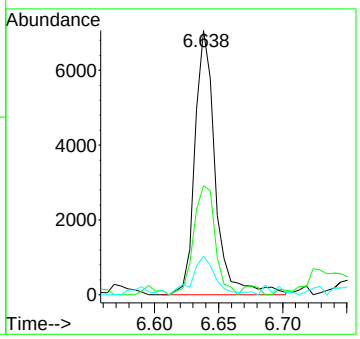


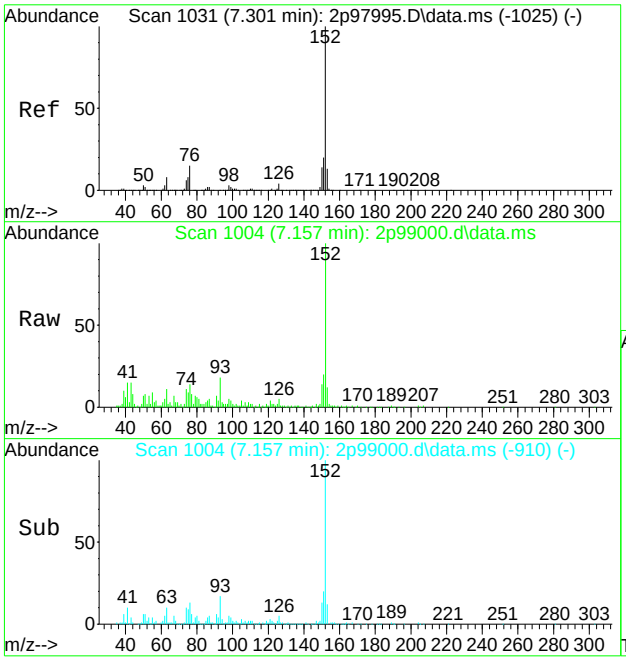


#53
Biphenyl
Concen: 0.27 ppm
RT: 6.638 min Scan# 907
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:154 Resp: 7816

Ion	Ratio	Lower	Upper
154	100		
153	39.9	11.2	71.2
155	13.0	0.0	42.9

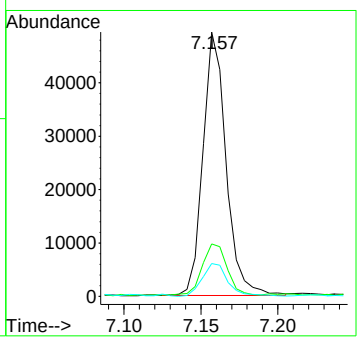


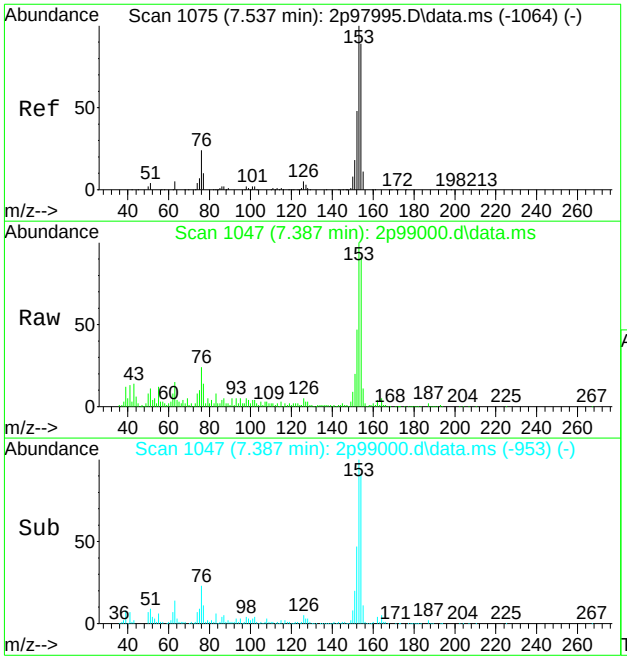


#56
Acenaphthylene
Concen: 1.51 ppm
RT: 7.157 min Scan# 1004
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:152 Resp: 51633

Ion	Ratio	Lower	Upper
152	100		
151	19.2	0.0	50.7
153	11.9	0.0	42.9

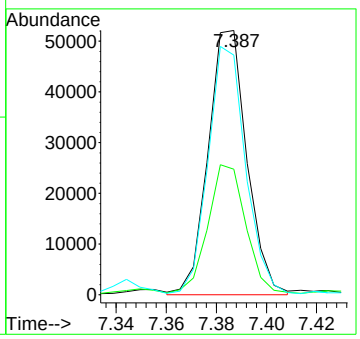


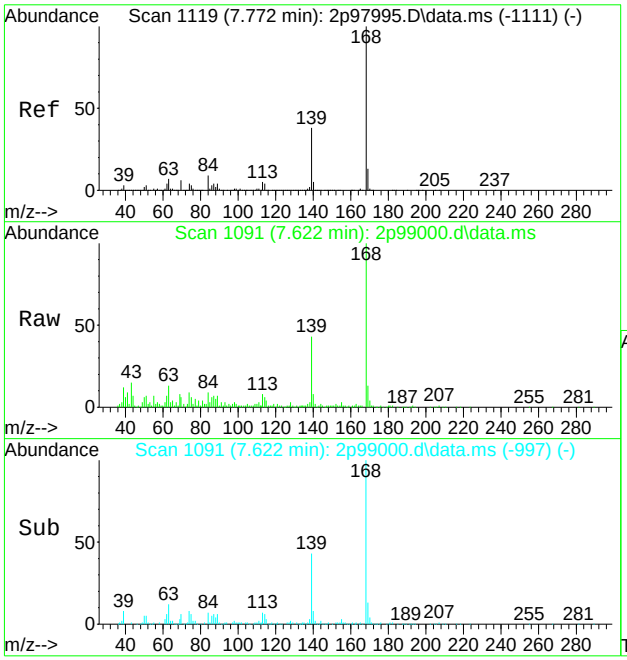


#59
Acenaphthene
Concen: 2.48 ppm m
RT: 7.387 min Scan# 1047
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:153 Resp: 55897

Ion	Ratio	Lower	Upper
153	100		
152	47.5	18.0	78.0
154	90.6	60.1	120.1

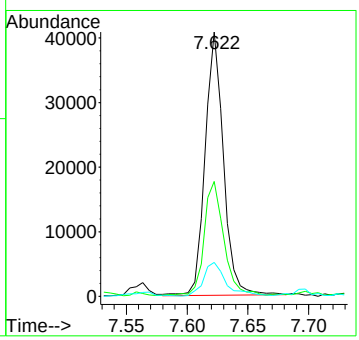


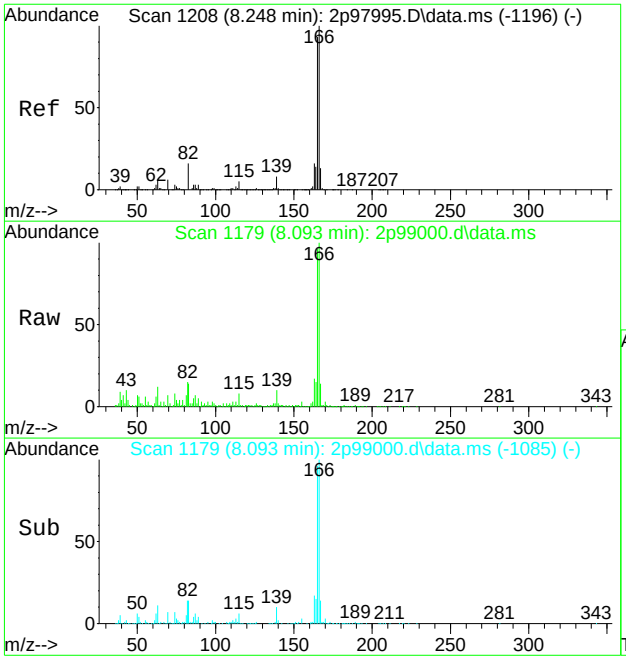


#62
Dibenzofuran
Concen: 1.42 ppm
RT: 7.622 min Scan# 1091
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:168 Resp: 42865

Ion	Ratio	Lower	Upper
168	100		
139	43.1	10.6	70.6
169	12.2	0.0	42.9

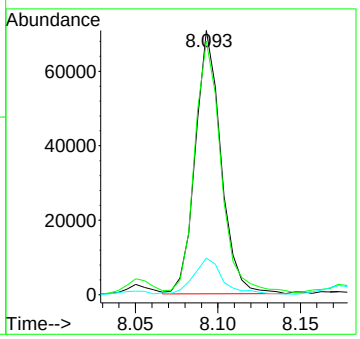


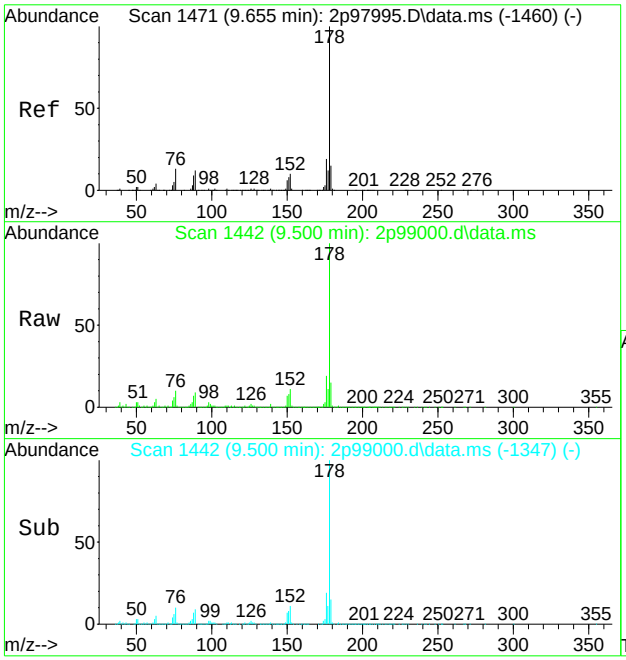


#66
Fluorene
Concen: 3.15 ppm
RT: 8.093 min Scan# 1179
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:166 Resp: 76595

Ion	Ratio	Lower	Upper
166	100		
165	95.0	65.3	125.3
167	13.5	0.0	43.3

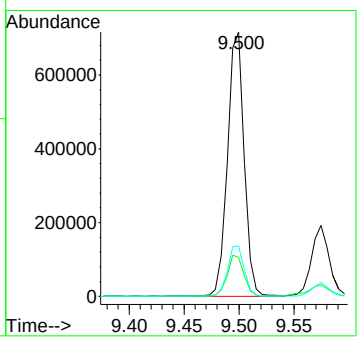


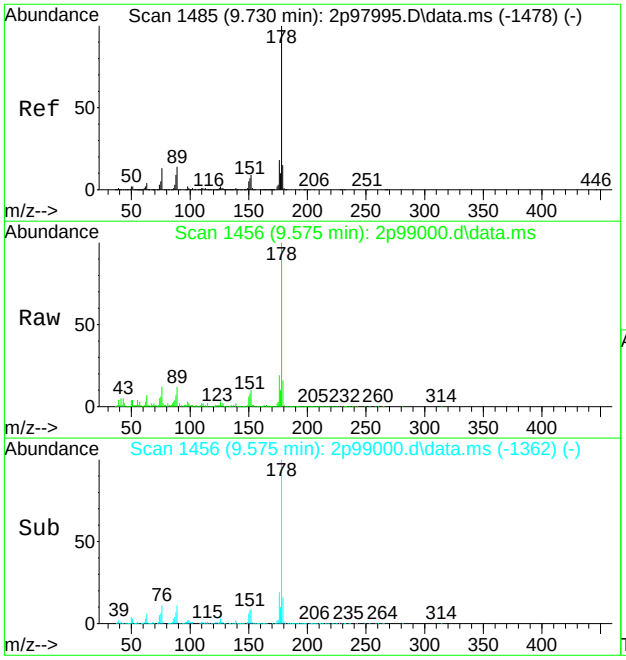


#77
Phenanthrene
Concen: 23.74 ppm
RT: 9.500 min Scan# 1442
Delta R.T. 0.006 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:178 Resp: 760757

Ion	Ratio	Lower	Upper
178	100		
179	14.6	0.0	44.9
176	19.0	0.0	49.2

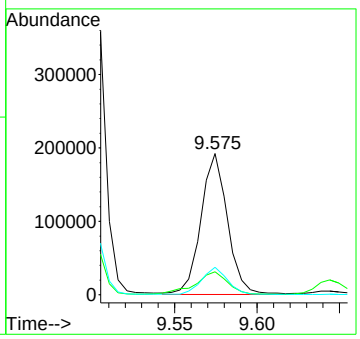


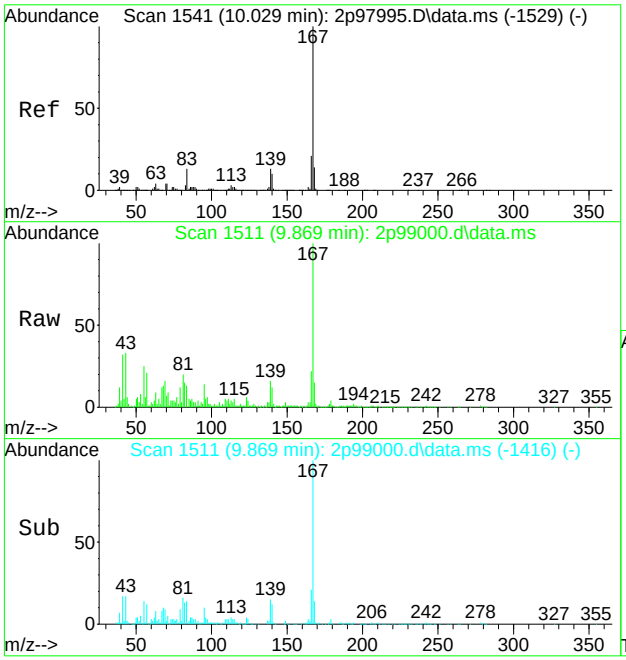


#78
Anthracene
Concen: 6.73 ppm
RT: 9.575 min Scan# 1456
Delta R.T. 0.000 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:178 Resp: 215957

Ion	Ratio	Lower	Upper
178	100		
179	15.7	0.0	44.8
176	19.2	0.0	49.1

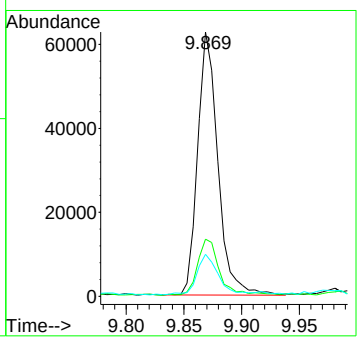


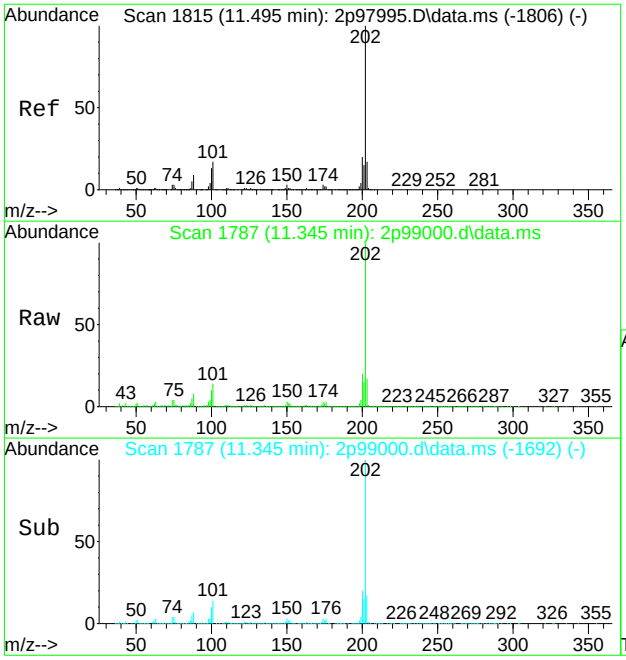


#79
Carbazole
Concen: 2.54 ppm
RT: 9.869 min Scan# 1511
Delta R.T. 0.006 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:167 Resp: 76520

Ion	Ratio	Lower	Upper
167	100		
166	21.1	0.0	51.3
139	15.2	0.0	44.4

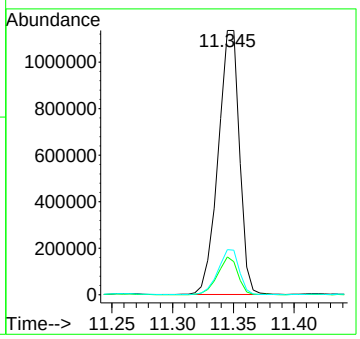


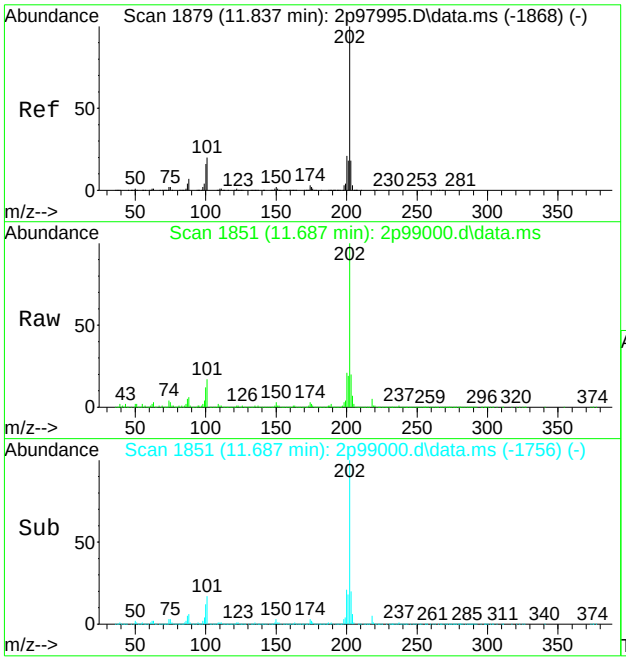


#81
Fluoranthene
Concen: 39.28 ppm
RT: 11.345 min Scan# 1787
Delta R.T. 0.006 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:202 Resp: 1381559

Ion	Ratio	Lower	Upper
202	100		
101	14.3	0.0	43.7
203	17.0	0.0	46.5

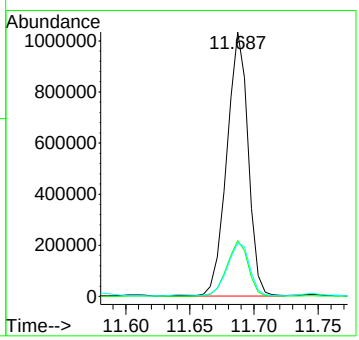


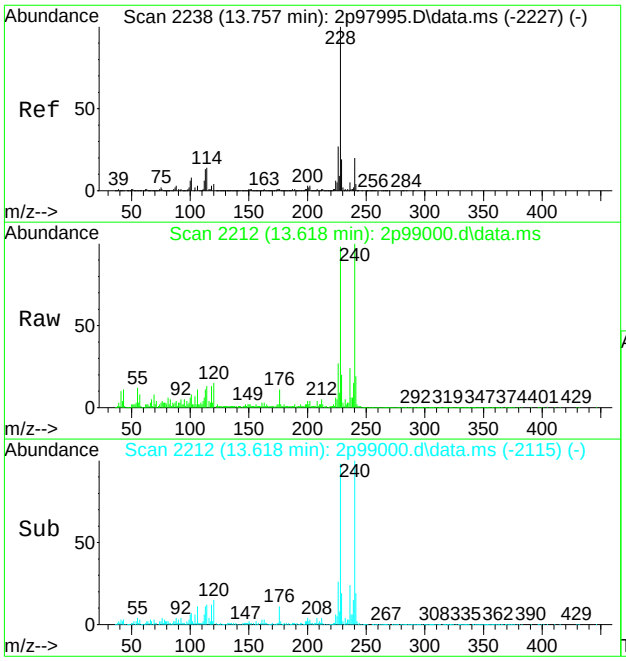


#84
Pyrene
Concen: 35.81 ppm
RT: 11.687 min Scan# 1851
Delta R.T. 0.006 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:202 Resp: 1197101

Ion	Ratio	Lower	Upper
202	100		
200	21.1	0.0	50.9
203	20.1	0.0	47.9

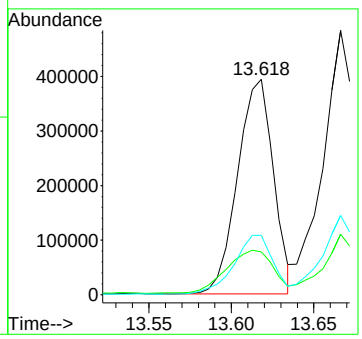


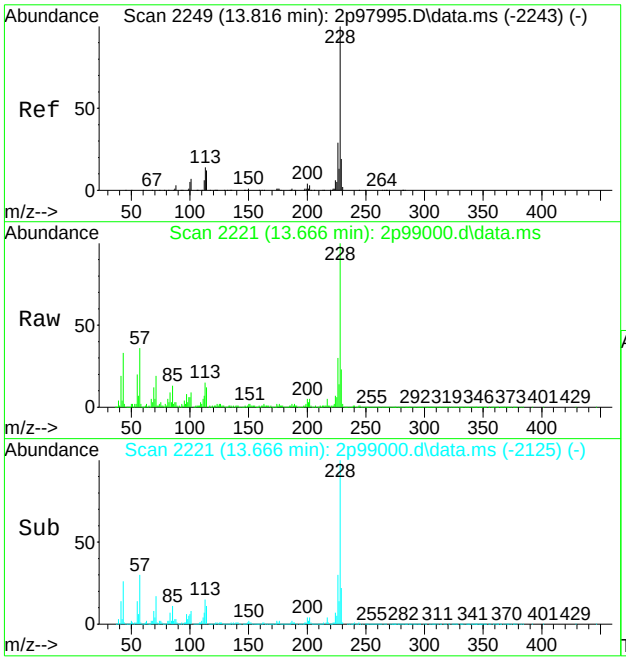


#87
Benzo[a]anthracene
Concen: 18.15 ppm
RT: 13.618 min Scan# 2212
Delta R.T. 0.016 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:228 Resp: 594358

Ion	Ratio	Lower	Upper
228	100		
229	18.8	0.0	50.0
226	27.4	0.0	56.8

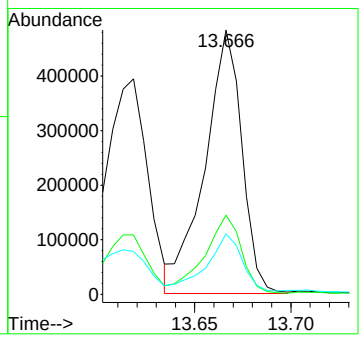


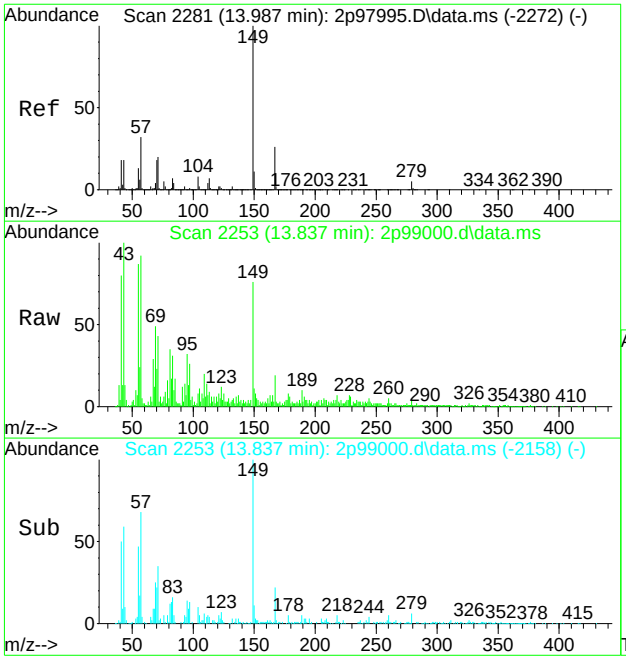


#89
Chrysene
Concen: 20.63 ppm
RT: 13.666 min Scan# 2221
Delta R.T. 0.011 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:228 Resp: 647144

Ion	Ratio	Lower	Upper
228	100		
226	30.0	0.3	60.3
229	21.9	0.0	49.6

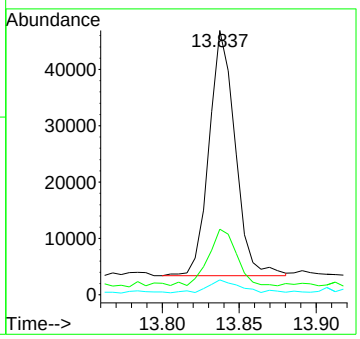


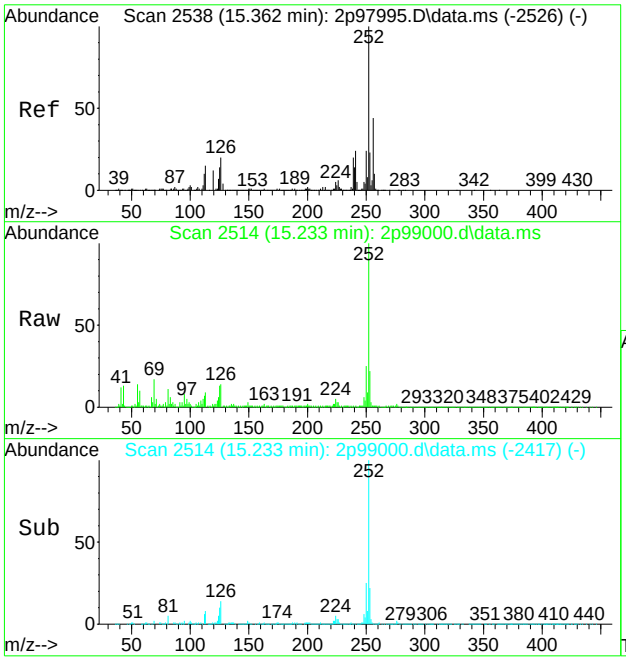


#90
bis(2-Ethylhexyl)phthalate
Concen: 2.34 ppm
RT: 13.837 min Scan# 2253
Delta R.T. 0.006 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:149 Resp: 51196

Ion	Ratio	Lower	Upper
149	100		
167	22.2	0.0	56.5
279	5.0	0.0	35.6

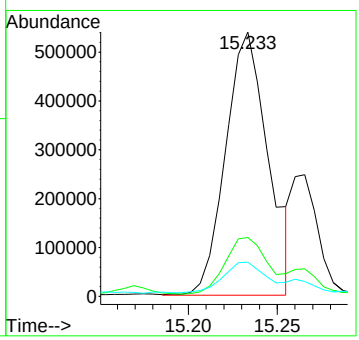


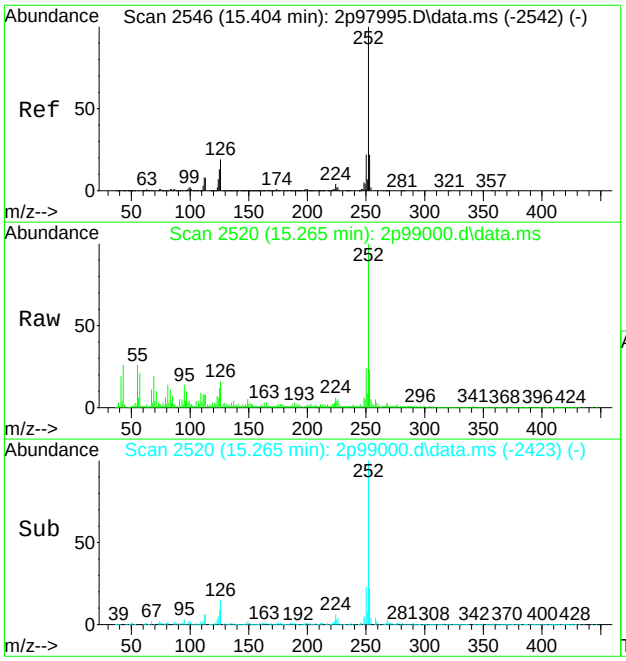


#93
Benzo[b]fluoranthene
Concen: 23.86 ppm
RT: 15.233 min Scan# 2514
Delta R.T. 0.016 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:252 Resp: 894896

Ion	Ratio	Lower	Upper
252	100		
253	20.9	0.0	51.4
125	11.5	0.0	39.2

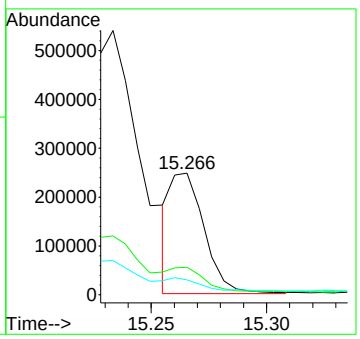


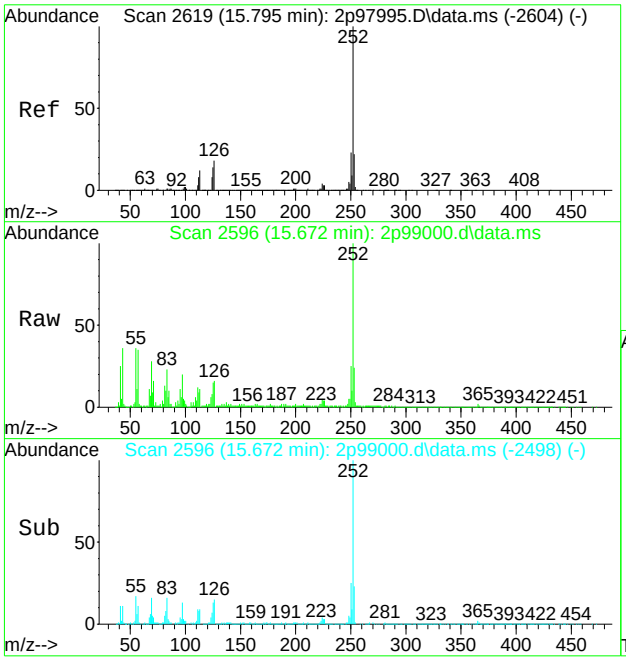


#94
Benzo[k]fluoranthene
Concen: 7.30 ppm
RT: 15.265 min Scan# 2520
Delta R.T. 0.016 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:252 Resp: 252480

Ion	Ratio	Lower	Upper
252	100		
253	19.4	0.0	51.6
125	7.8	0.0	40.9

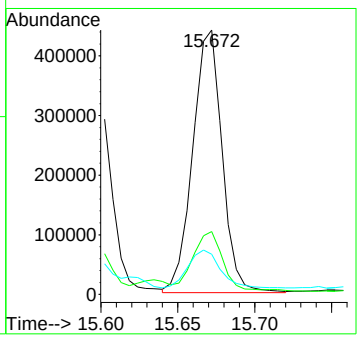


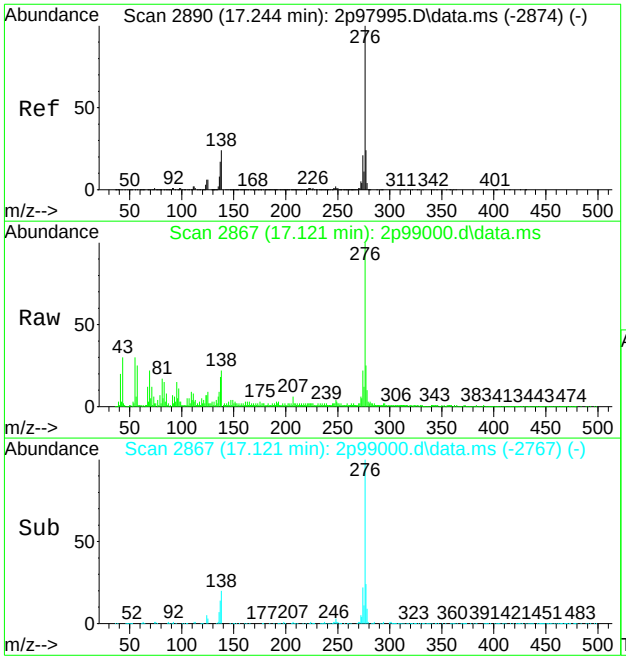


#95
Benzo[a]pyrene
Concen: 18.01 ppm
RT: 15.672 min Scan# 2596
Delta R.T. 0.022 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:252 Resp: 586479

Ion	Ratio	Lower	Upper
252	100		
253	20.8	0.0	51.7
125	13.0	0.0	41.0

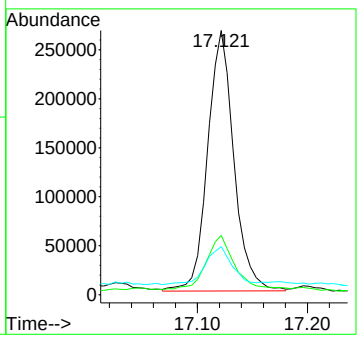


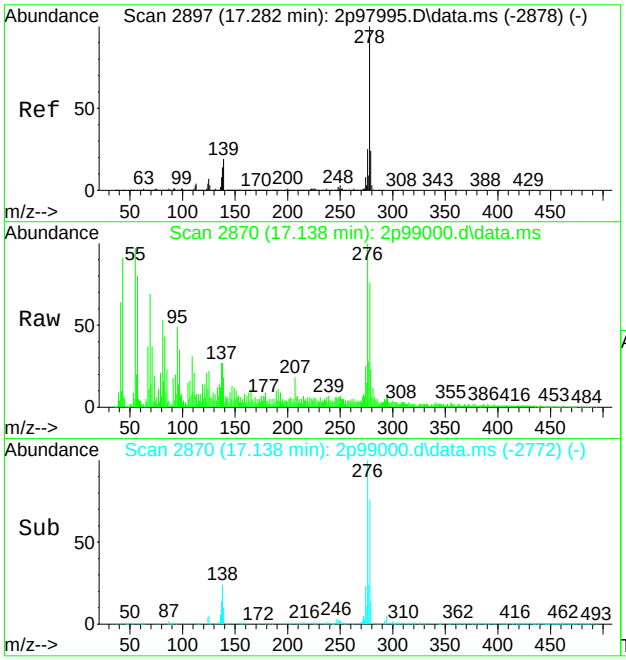


#96
Indeno[1,2,3-cd]pyrene
Concen: 12.64 ppm
RT: 17.121 min Scan# 2867
Delta R.T. 0.032 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:276 Resp: 441450

Ion	Ratio	Lower	Upper
276	100		
138	20.6	0.0	49.6
137	14.3	0.0	44.3

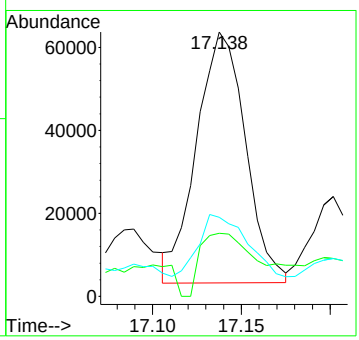


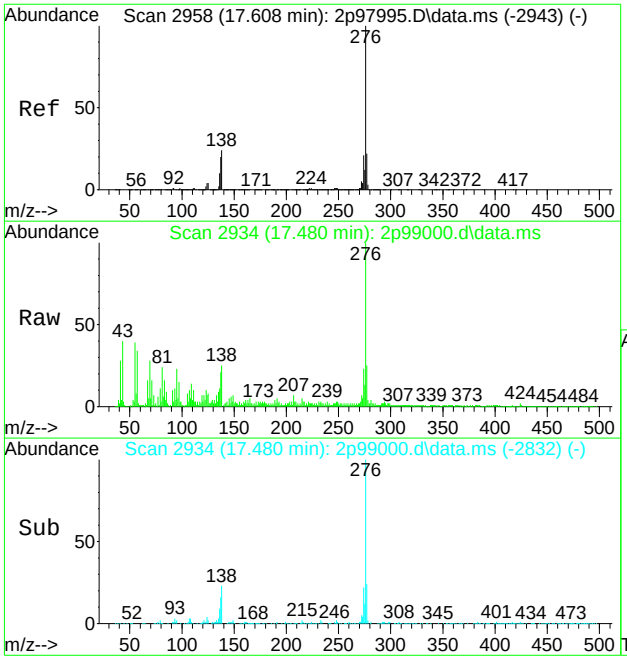


#98
Dibenz[a,h]anthracene
Concen: 3.19 ppm
RT: 17.138 min Scan# 2870
Delta R.T. 0.022 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:278 Resp: 115840

Ion	Ratio	Lower	Upper
278	100		
139	14.2	0.0	45.6
279	25.0	0.0	53.3

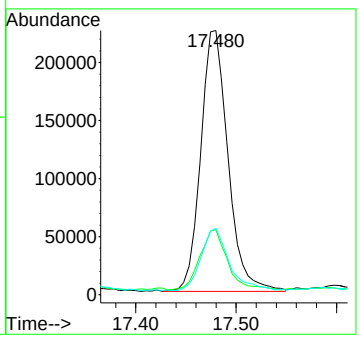




#100
Benzo[g,h,i]perylene
Concen: 12.36 ppm
RT: 17.480 min Scan# 2934
Delta R.T. 0.043 min
Lab File: 2p99000.d
Acq: 15 Jan 2021 9:44 pm

Tgt Ion:276 Resp: 425144

Ion	Ratio	Lower	Upper
276	100		
138	22.6	0.0	51.4
277	23.9	0.0	53.7



LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p99000.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.210	262	266	282	rVB	473593	509416	3.55%	0.300%
2	3.515	320	323	341	rBV	1399272	1332237	9.28%	0.785%
3	4.001	407	414	418	rBV	183387	235036	1.64%	0.138%
4	4.231	452	457	462	rBV	1215121	1281694	8.93%	0.755%
5	4.269	462	464	470	rVV	229406	248024	1.73%	0.146%
6	4.429	491	494	502	rBV	4276957	3015272	21.00%	1.776%
7	4.841	566	571	581	rBV	1691938	1416106	9.86%	0.834%
8	5.419	674	679	687	rVV	4126898	3532775	24.61%	2.081%
9	6.216	821	828	842	rBV3	109824	185384	1.29%	0.109%
10	6.526	880	886	897	rBV	2424787	2259470	15.74%	1.331%
11	7.077	979	989	999	rVB4	155746	302666	2.11%	0.178%
12	7.157	999	1004	1009	rBV2	185692	236355	1.65%	0.139%
13	7.344	1030	1039	1044	rBV	3849855	3727687	25.96%	2.196%
14	7.382	1044	1046	1052	rVB	246907	278807	1.94%	0.164%
15	8.093	1175	1179	1188	rVB2	292568	332158	2.31%	0.196%
16	8.451	1241	1246	1253	rBV	1066051	1285942	8.96%	0.758%
17	8.767	1300	1305	1314	rVB3	134688	238997	1.66%	0.141%
18	9.115	1358	1370	1374	rBV9	150663	328684	2.29%	0.194%
19	9.184	1379	1383	1393	rVB6	121513	286367	1.99%	0.169%
20	9.462	1429	1435	1438	rBV2	3160372	3678153	25.62%	2.167%
21	9.494	1438	1441	1447	rVB	1929498	2104125	14.66%	1.240%
22	9.575	1448	1456	1461	rBV	537313	638850	4.45%	0.376%
23	9.703	1476	1480	1484	rVB	489391	500838	3.49%	0.295%
24	9.740	1484	1487	1497	rVB	376010	462673	3.22%	0.273%
25	9.869	1506	1511	1517	rBV	294661	357879	2.49%	0.211%
26	9.992	1523	1534	1541	rBV4	204865	393487	2.74%	0.232%
27	10.254	1578	1583	1586	rBV	281064	335075	2.33%	0.197%
28	10.291	1586	1590	1596	rVB	319132	382300	2.66%	0.225%
29	10.404	1607	1611	1616	rBV3	367109	516843	3.60%	0.304%
30	10.452	1616	1620	1626	rVB	162690	226195	1.58%	0.133%
31	10.537	1626	1636	1640	rBV4	228255	480531	3.35%	0.283%
32	10.735	1668	1673	1677	rBV	185500	270863	1.89%	0.160%
33	10.773	1677	1680	1689	rVB2	218178	313663	2.18%	0.185%
34	11.013	1722	1725	1736	rVB3	105448	254121	1.77%	0.150%
35	11.131	1740	1747	1751	rBV2	160197	290269	2.02%	0.171%
36	11.217	1759	1763	1776	rVB8	213036	485637	3.38%	0.286%
37	11.345	1777	1787	1794	rBV	2961251	3771132	26.27%	2.222%
38	11.479	1804	1812	1823	rBV4	905312	1453486	10.12%	0.856%
39	11.687	1842	1851	1858	rVB	2941220	3673051	25.58%	2.164%
40	11.917	1889	1894	1906	rBV3	498475	992834	6.92%	0.585%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

41	12.014	1907	1912	1920	rVB	1961593	2494354	17.37%	1.469%
42	12.078	1920	1924	1929	rVB2	137093	226758	1.58%	0.134%
43	12.249	1942	1956	1960	rVV2	369590	732717	5.10%	0.432%
44	12.351	1970	1975	1979	rBV2	363770	473764	3.30%	0.279%
45	12.399	1980	1984	1987	rBV	209282	275602	1.92%	0.162%
46	12.538	2005	2010	2013	rBV2	227658	293563	2.04%	0.173%
47	12.580	2013	2018	2022	rVB2	360911	489980	3.41%	0.289%
48	12.720	2042	2044	2051	rVB5	152125	226905	1.58%	0.134%
49	12.864	2066	2071	2077	rVV2	372984	518092	3.61%	0.305%
50	12.939	2081	2085	2092	rVB6	141359	216456	1.51%	0.128%
51	13.067	2104	2109	2113	rVB3	167821	225445	1.57%	0.133%
52	13.131	2118	2121	2131	rVB2	169049	296341	2.06%	0.175%
53	13.212	2132	2136	2141	rBV	259921	399349	2.78%	0.235%
54	13.287	2148	2150	2156	rVB2	159428	240307	1.67%	0.142%
55	13.340	2156	2160	2165	rBV3	164065	246593	1.72%	0.145%
56	13.404	2166	2172	2179	rVB3	242490	418909	2.92%	0.247%
57	13.490	2184	2188	2193	rBV2	157483	248419	1.73%	0.146%
58	13.575	2200	2204	2206	rBV2	267420	356975	2.49%	0.210%
59	13.629	2206	2214	2218	rVV3	3389379	5818254	40.53%	3.427%
60	13.666	2218	2221	2230	rVB2	2239236	2907269	20.25%	1.713%
61	13.779	2238	2242	2249	rVB	279793	352890	2.46%	0.208%
62	13.837	2249	2253	2257	rBV3	298708	433234	3.02%	0.255%
63	14.035	2286	2290	2295	rBV2	175543	228349	1.59%	0.135%
64	14.174	2309	2316	2320	rBV3	231359	453853	3.16%	0.267%
65	14.265	2330	2333	2339	rVB2	230748	319335	2.22%	0.188%
66	14.677	2403	2410	2427	rBV2	1216298	4070994	28.36%	2.398%
67	15.132	2490	2495	2505	rBV4	514404	1137647	7.92%	0.670%
68	15.228	2507	2513	2518	rBV2	1764323	3201542	22.30%	1.886%
69	15.340	2529	2534	2537	rBV2	502886	682171	4.75%	0.402%
70	15.619	2577	2586	2591	rBV2	4771208	8012604	55.81%	4.720%
71	15.667	2591	2595	2605	rVV2	2183577	3861290	26.90%	2.275%
72	15.752	2605	2611	2615	rVV	2539424	3222697	22.45%	1.898%
73	15.982	2650	2654	2658	rVB6	210892	276016	1.92%	0.163%
74	16.057	2662	2668	2675	rVB3	451721	954698	6.65%	0.562%
75	16.121	2677	2680	2688	rVB8	200888	373231	2.60%	0.220%
76	16.260	2701	2706	2715	rBV2	771363	1325646	9.23%	0.781%
77	16.330	2715	2719	2724	rBV3	322337	500208	3.48%	0.295%
78	16.464	2738	2744	2746	rBV3	1176514	1716438	11.96%	1.011%
79	16.501	2746	2751	2757	rVV	4272232	6015640	41.90%	3.544%
80	16.560	2757	2762	2778	rVV2	1185053	2875664	20.03%	1.694%
81	16.667	2778	2782	2787	rBV	420079	665824	4.64%	0.392%
82	16.827	2809	2812	2823	rVB8	469967	880153	6.13%	0.518%
83	16.929	2825	2831	2836	rVB3	499426	905250	6.31%	0.533%
84	17.121	2862	2867	2871	rBV	606999	920768	6.41%	0.542%
85	17.170	2872	2876	2880	rVB	364965	482188	3.36%	0.284%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

86	17.303	2898	2901	2906	rVB7	260411	391750	2.73%	0.231%
87	17.357	2906	2911	2918	rVB3	653729	1216085	8.47%	0.716%
88	17.426	2919	2924	2929	rVB	552306	866815	6.04%	0.511%
89	17.480	2929	2934	2943	rBV	709850	1358500	9.46%	0.800%
90	17.688	2965	2973	2981	rBV3	4452095	11346850	79.03%	6.684%
91	17.854	2998	3004	3015	rVV5	870605	2317892	16.14%	1.365%
92	17.961	3016	3024	3031	rVV3	2453073	6610419	46.04%	3.894%
93	18.036	3032	3038	3049	rVB3	2636901	6071329	42.29%	3.577%
94	18.164	3057	3062	3067	rBV9	378438	871524	6.07%	0.513%
95	18.245	3068	3077	3089	rVV4	2751220	9747118	67.89%	5.742%
96	18.341	3090	3095	3107	rVB4	1245726	3516613	24.49%	2.072%
97	18.464	3109	3118	3126	rVB2	1605746	3826449	26.65%	2.254%
98	18.678	3151	3158	3167	rVB4	839039	2279605	15.88%	1.343%
99	18.774	3170	3176	3196	rVB4	446609	1387717	9.67%	0.817%
100	19.191	3241	3254	3267	rVB	5119523	14356789	100.00%	8.457%

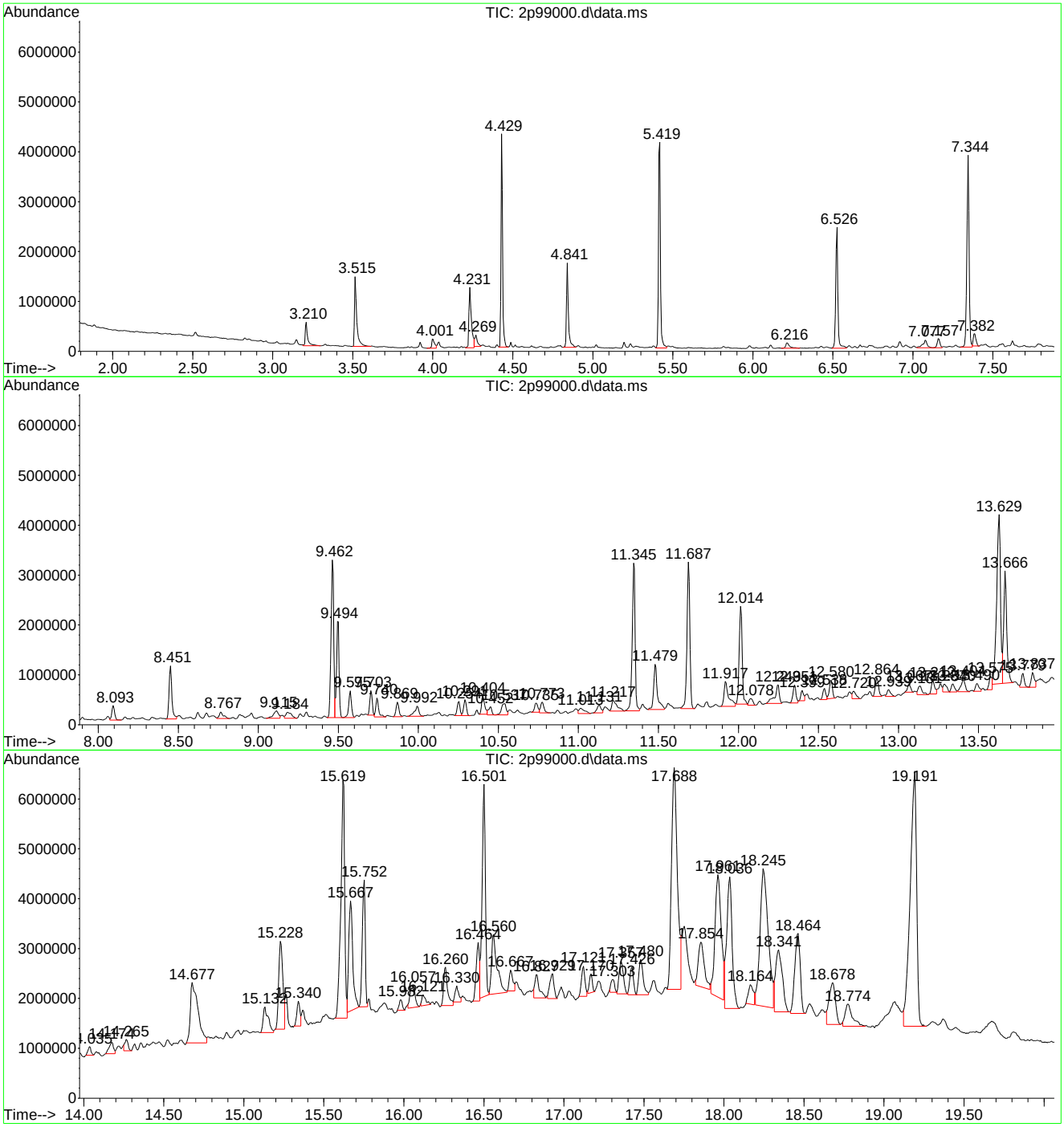
Sum of corrected areas: 169754919

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

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Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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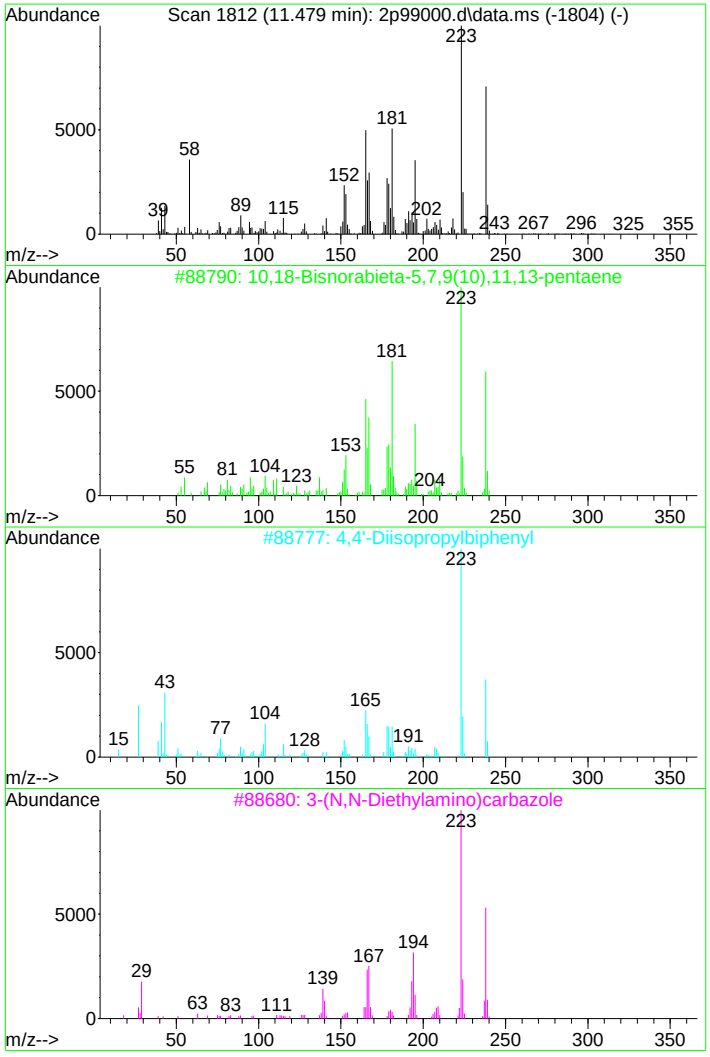
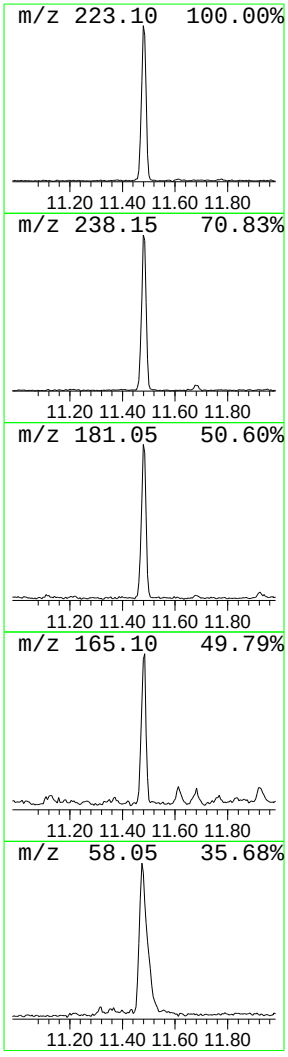
Peak Number 1 Bisnorabieta-pentaene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.479	15.81 ppm	1453490	Phenanthrene-d10b	9.462

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10,18-Bisnorabieta-5,7,9(10),11,...	238	C18H22	006566-19-4	99
2	4,4'-Diisopropylbiphenyl	238	C18H22	018970-30-4	55
3	3-(N,N-Diethylamino)carbazole	238	C16H18N2	054994-31-9	53
4	4,4'-Diisopropylbiphenyl	238	C18H22	018970-30-4	50
5	3,4'-Diisopropylbiphenyl	238	C18H22	061434-46-6	46





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Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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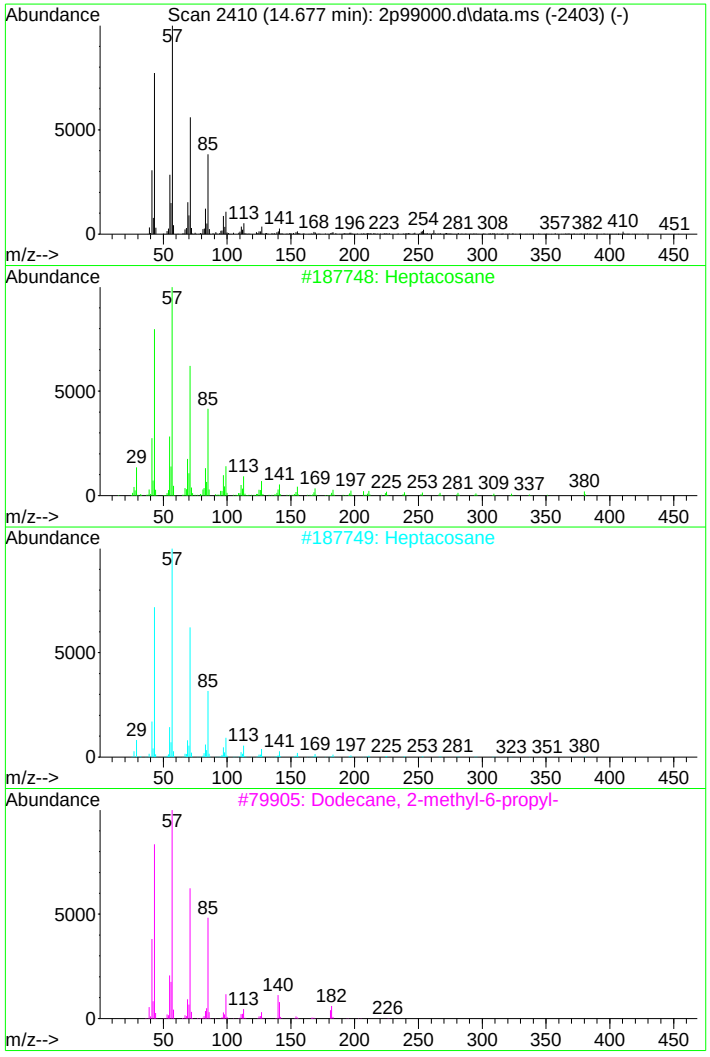
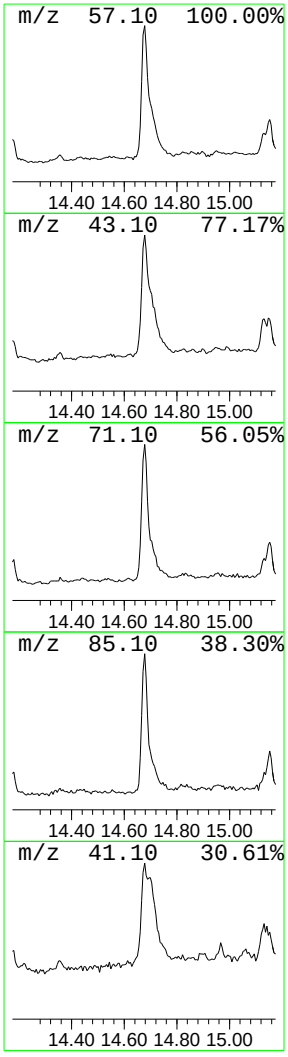
Peak Number 2 Alkane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.677	27.99 ppm	4070990	Chrysene-d12b	13.629

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	95
2	Heptacosane	380	C27H56	000593-49-7	93
3	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	91
4	Docosane, 11-butyl-	366	C26H54	013475-76-8	90
5	Octadecane	254	C18H38	000593-45-3	90





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ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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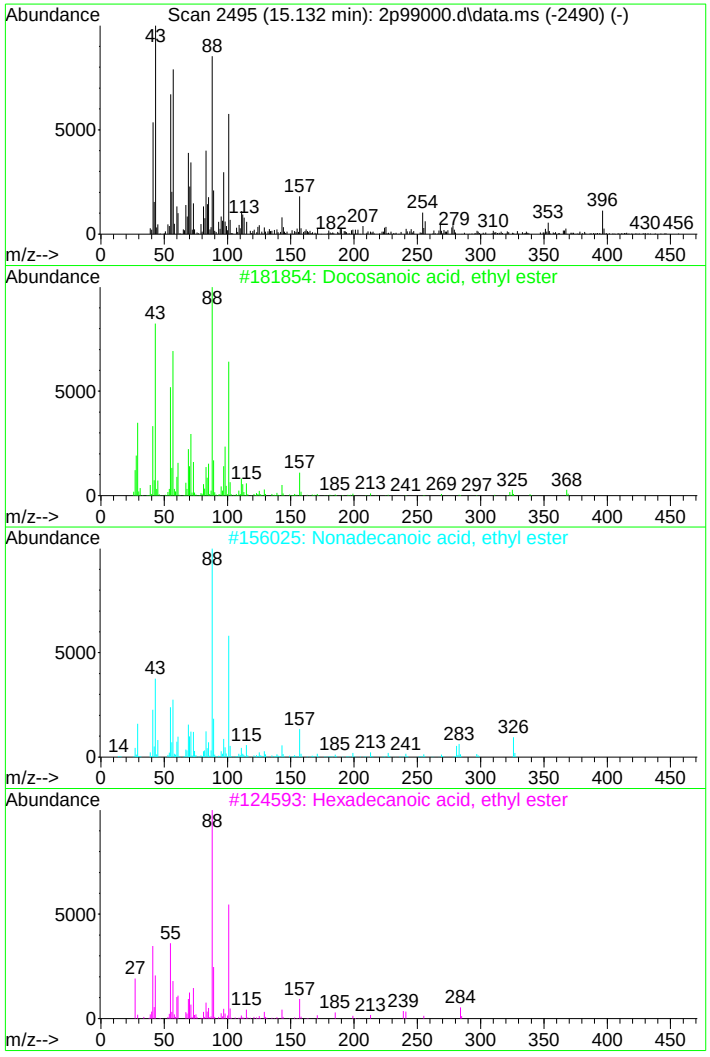
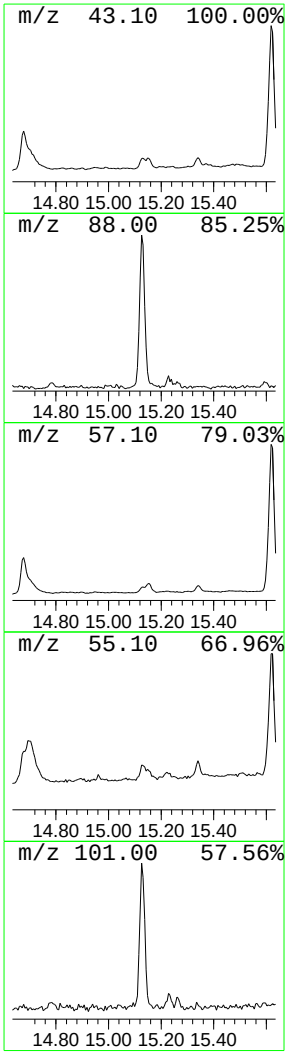
Peak Number 3 Unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.132	14.12 ppm	1137650	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosanoic acid, ethyl ester	368	C24H48O2	005908-87-2	52
2	Nonadecanoic acid, ethyl ester	326	C21H42O2	018281-04-4	50
3	Hexadecanoic acid, ethyl ester	284	C18H36O2	000628-97-7	47
4	Octadecanoic acid, ethyl ester	312	C20H40O2	000111-61-5	46
5	Tetradecanoic acid, 2-methyl-, m...	256	C16H32O2	055554-09-1	46





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Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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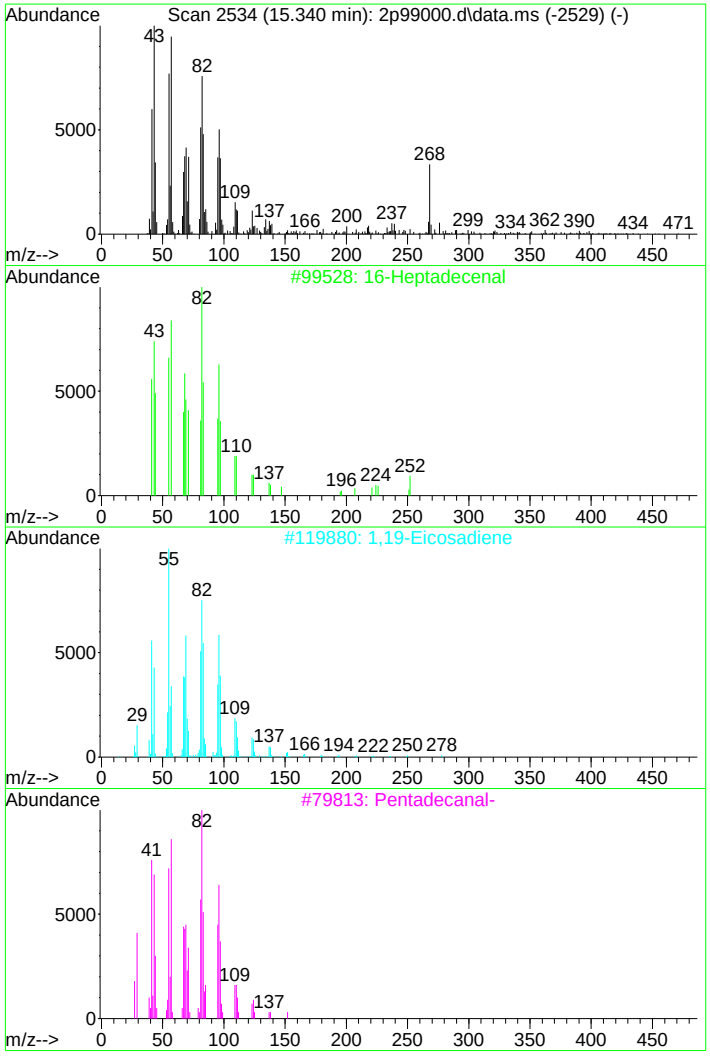
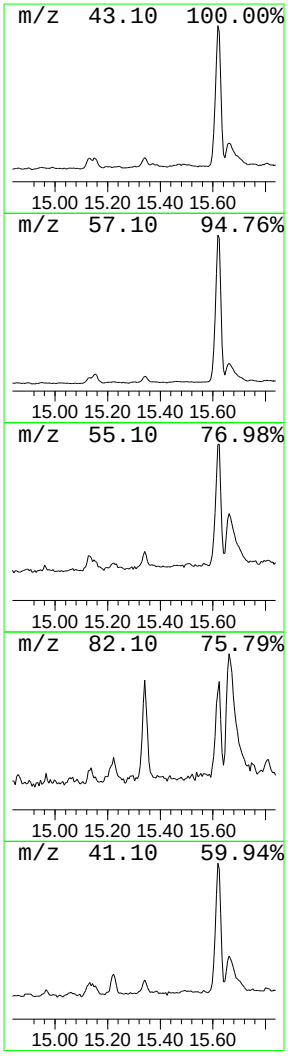
Peak Number 4 Unknown Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.340	8.47 ppm	682171	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	16-Heptadecenal	252	C17H32O	1000144-57-9	87
2	1,19-Eicosadiene	278	C20H38	014811-95-1	87
3	Pentadecanal-	226	C15H30O	002765-11-9	87
4	11-Tetradecyn-1-ol acetate	252	C16H28O2	033925-72-3	86
5	1,16-Hexadecanediol	258	C16H34O2	007735-42-4	83





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Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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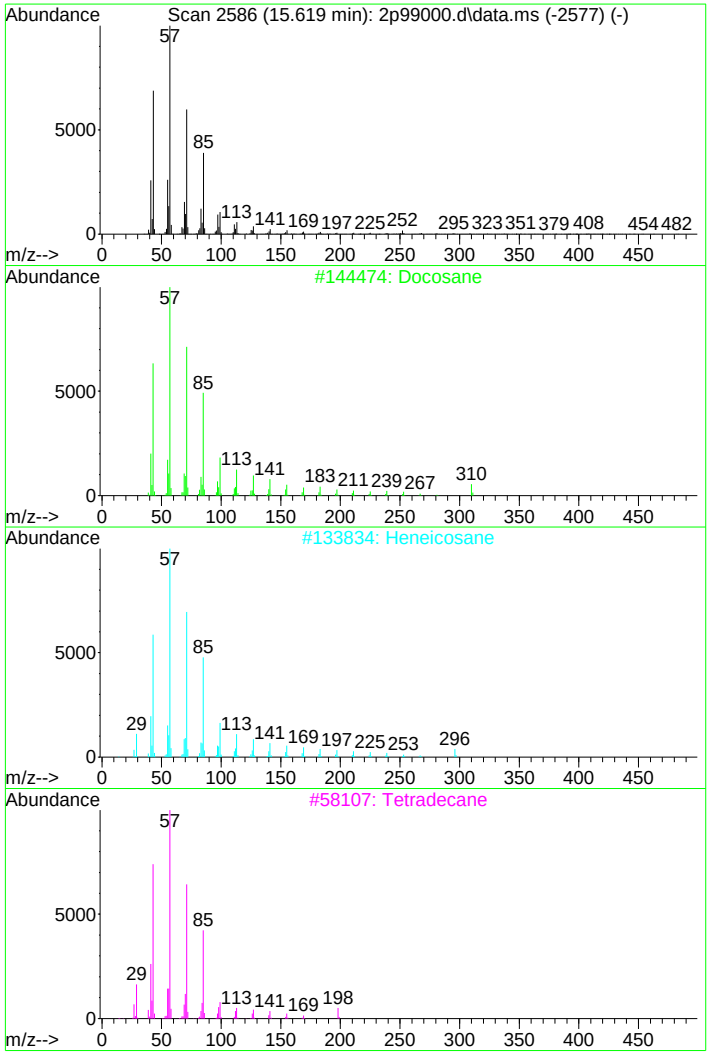
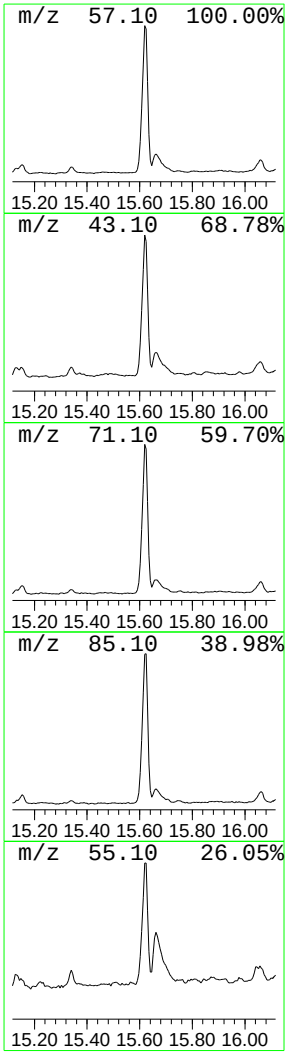
Peak Number 5 Alkane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.618	99.45 ppm	8012600	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosane	310	C22H46	000629-97-0	95
2	Heneicosane	296	C21H44	000629-94-7	94
3	Tetradecane	198	C14H30	000629-59-4	94
4	Nonadecane	268	C19H40	000629-92-5	93
5	Hentriacontane	437	C31H64	000630-04-6	93





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Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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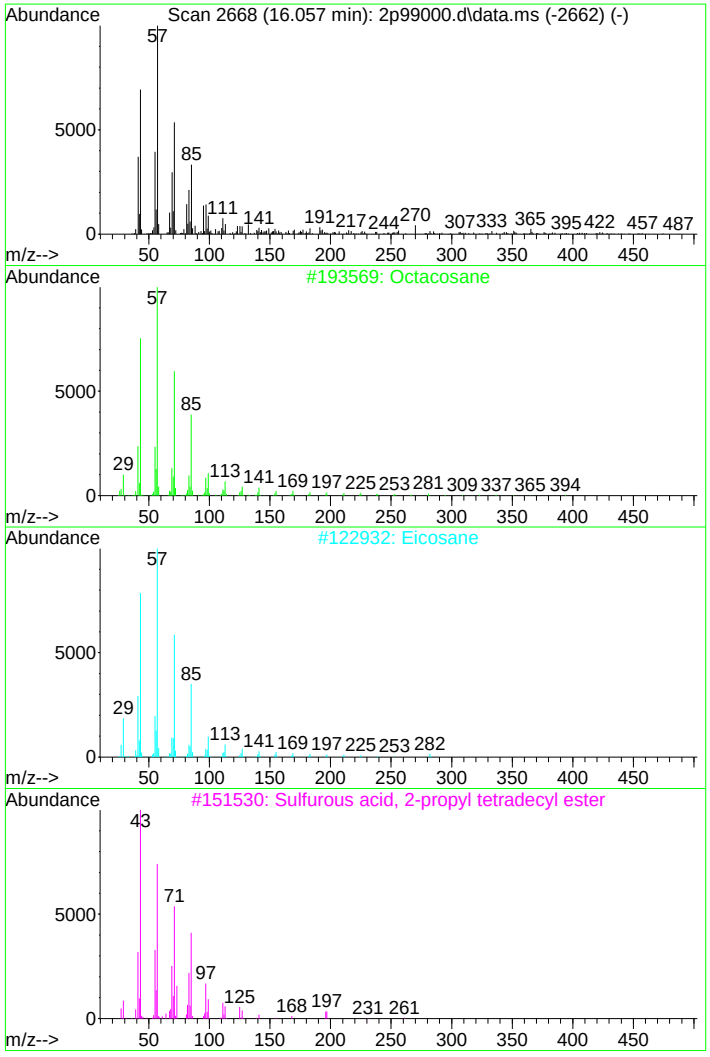
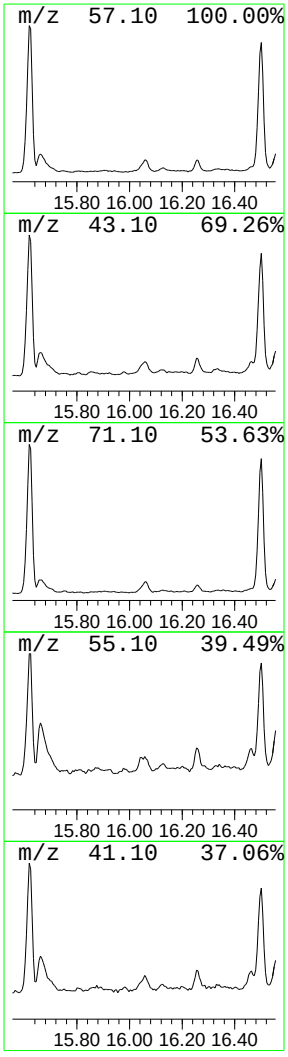
Peak Number 6 Unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.057	11.85 ppm	954698	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	78
2	Eicosane	282	C20H42	000112-95-8	78
3	Sulfurous acid, 2-propyl tetrade...	320	C17H36O3S	1000309-12-5	68
4	Sulfurous acid, 2-propyl tridecy...	306	C16H34O3S	1000309-12-4	68
5	Dodecane	170	C12H26	000112-40-3	60





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ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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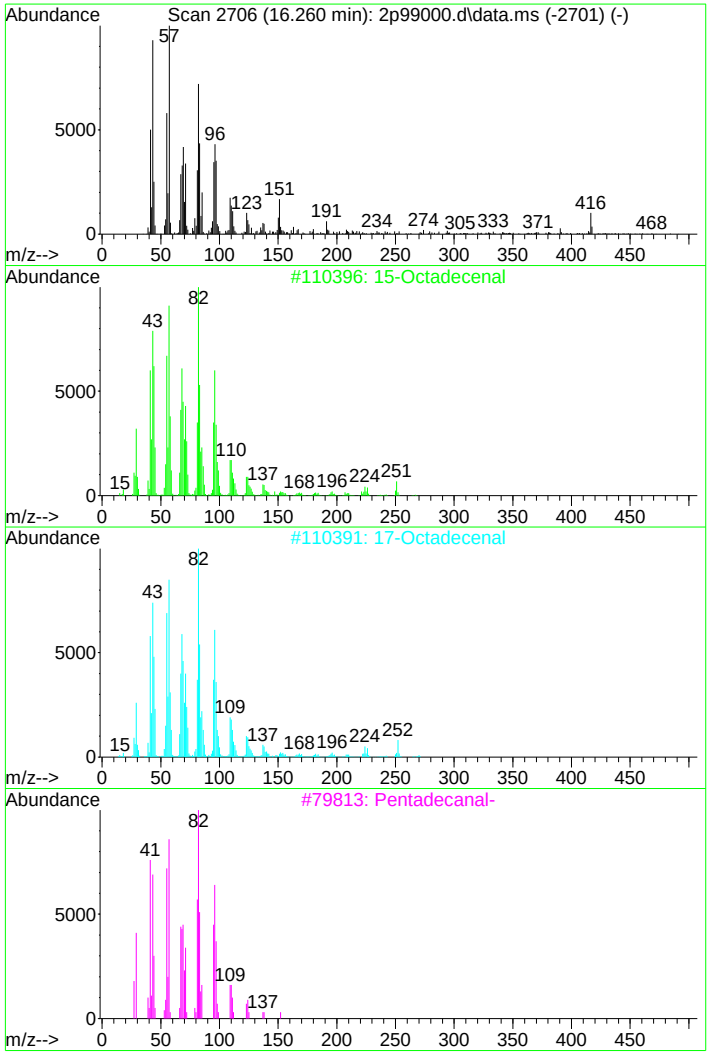
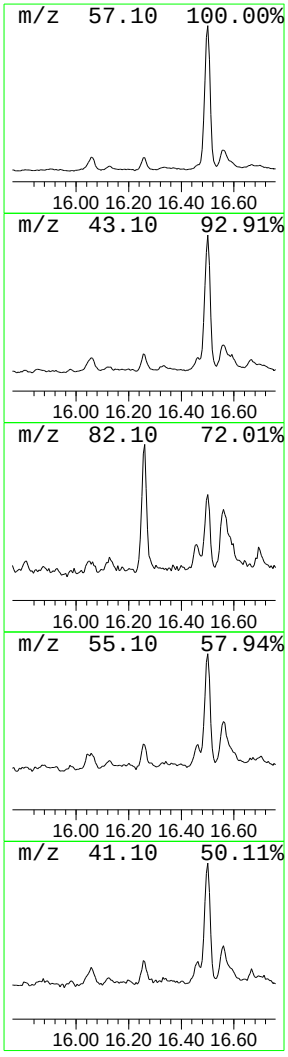
Peak Number 7 Unknown alcohols Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.260	16.45 ppm	1325650	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	15-Octadecenal	266	C18H34O	056554-93-9	83
2	17-Octadecenal	266	C18H34O	056554-86-0	83
3	Pentadecanal-	226	C15H30O	002765-11-9	74
4	1,19-Eicosadiene	278	C20H38	014811-95-1	72
5	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	64





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Sample    : jd18939-2
Misc      : op31540,e2p4412,30.7,,,1,1
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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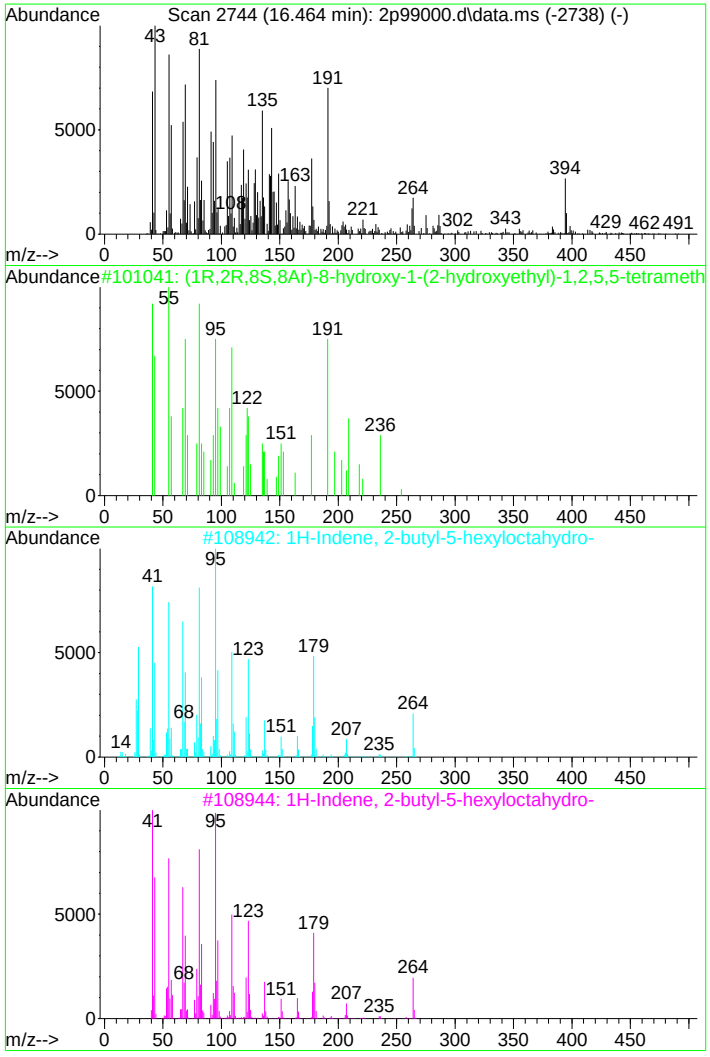
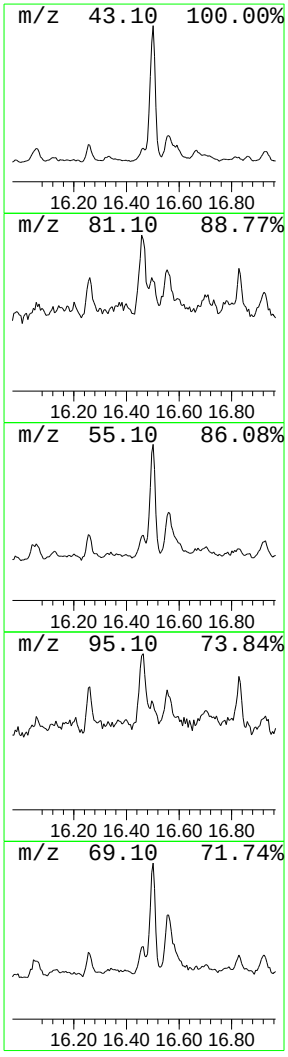
Peak Number 8 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.464	21.30 ppm	1716440	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1R,2R,8S,8Ar)-8-hydroxy-1-(2-hy...	254	C16H30O2	1000298-98-6	70
2	1H-Indene, 2-butyl-5-hexyloctahy...	264	C19H36	055044-33-2	43
3	1H-Indene, 2-butyl-5-hexyloctahy...	264	C19H36	055044-33-2	41
4	28-Nor-17.alpha.(H)-hopane	398	C29H50	053584-60-4	38
5	(1R,2S,8R,8Ar)-8-acetoxy-1-(2-hy...	296	C18H32O3	1000298-98-4	35





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ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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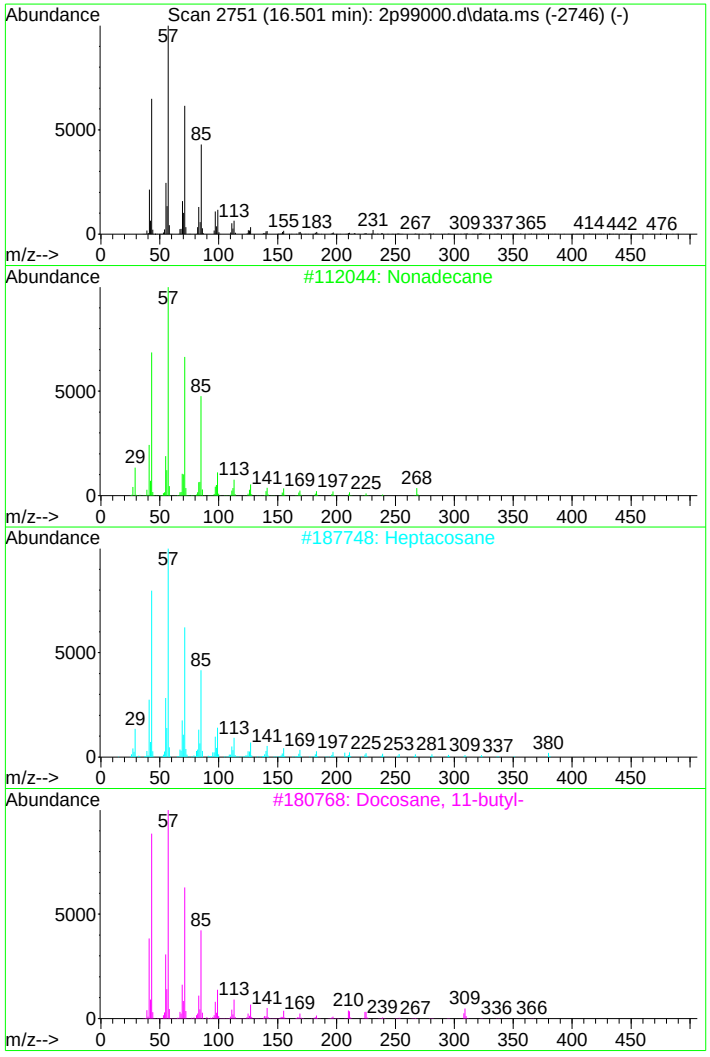
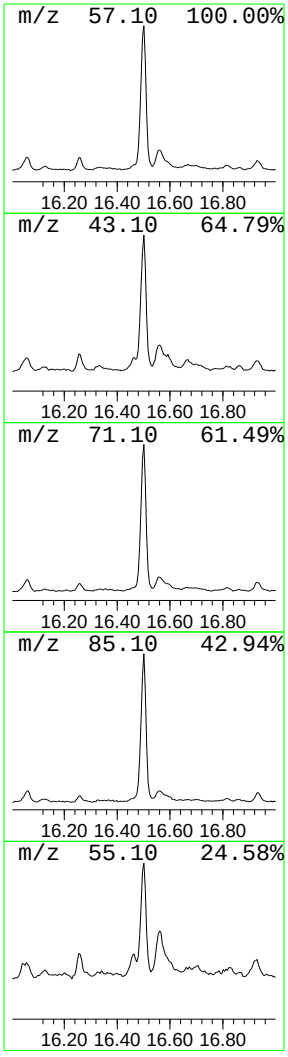
Peak Number 9 Alkane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.501	74.67 ppm	6015640	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	95
2	Heptacosane	380	C27H56	000593-49-7	91
3	Docosane, 11-butyl-	366	C26H54	013475-76-8	90
4	Pentacosane	352	C25H52	000629-99-2	87
5	10-Methylnonadecane	282	C20H42	056862-62-5	86





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Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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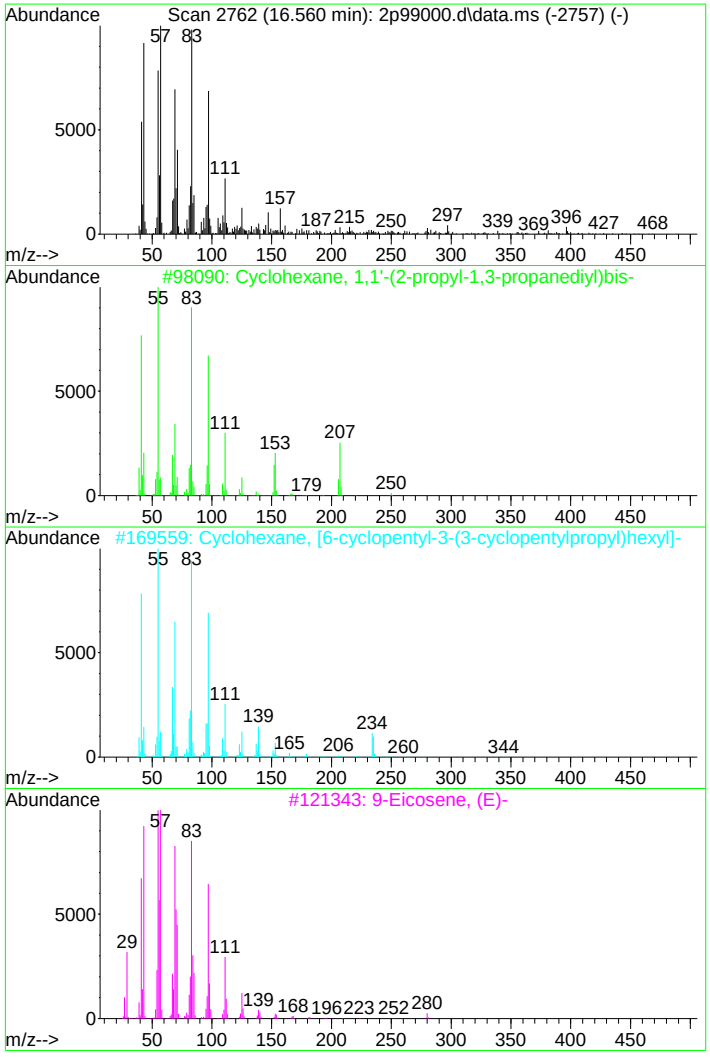
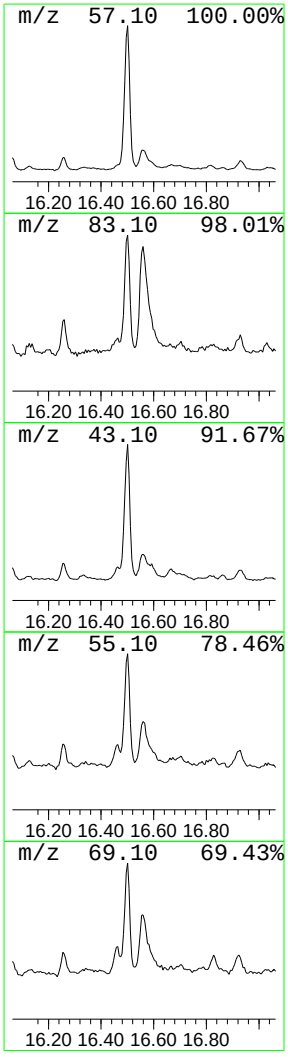
Peak Number 10 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.560	35.69 ppm	2875660	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1'-(2-propyl-1,3-...	250	C18H34	055030-21-2	86
2	Cyclohexane, [6-cyclopentyl-3-(3...	346	C25H46	055401-72-4	86
3	9-Eicosene, (E)-	280	C20H40	074685-29-3	83
4	Cyclooctadecane, ethyl-	280	C20H40	1000151-22-5	78
5	Octadecane, 1-(ethenyloxy)-	296	C20H40O	000930-02-9	66





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ALS Vial  : 20   Sample Multiplier: 1

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Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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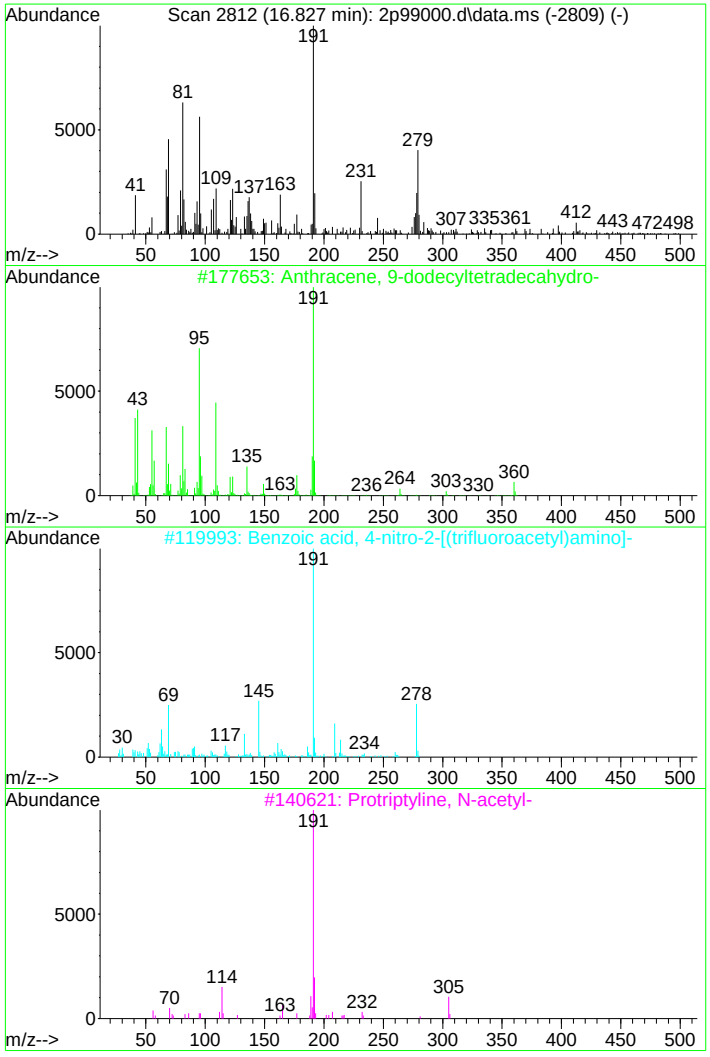
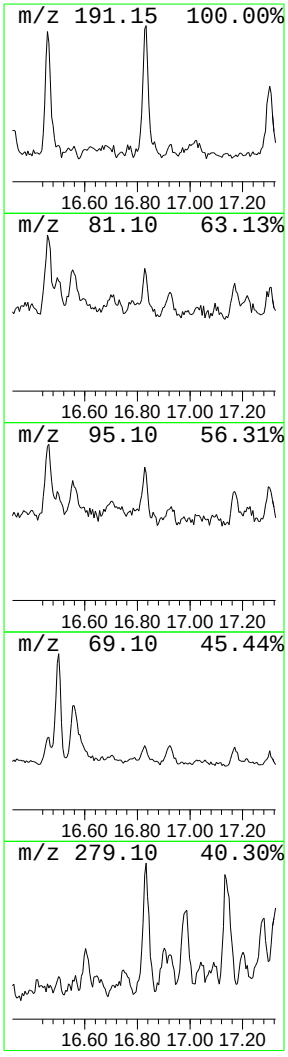
Peak Number 11 Unknown Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.827	10.92 ppm	880153	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-dodecyltetradecahy...	360	C26H48	055401-75-7	37
2	Benzoic acid, 4-nitro-2-[(triflu...	278	C9H5F3N2O5	091533-09-4	30
3	Protriptyline, N-acetyl-	305	C21H23NO	023047-28-1	22
4	4(1H)-Pteridinone, 2-amino-6,7-d...	191	C8H9N5O	000611-55-2	22
5	5H-Benzo[def]carbazole	191	C14H9N	000203-65-6	22





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Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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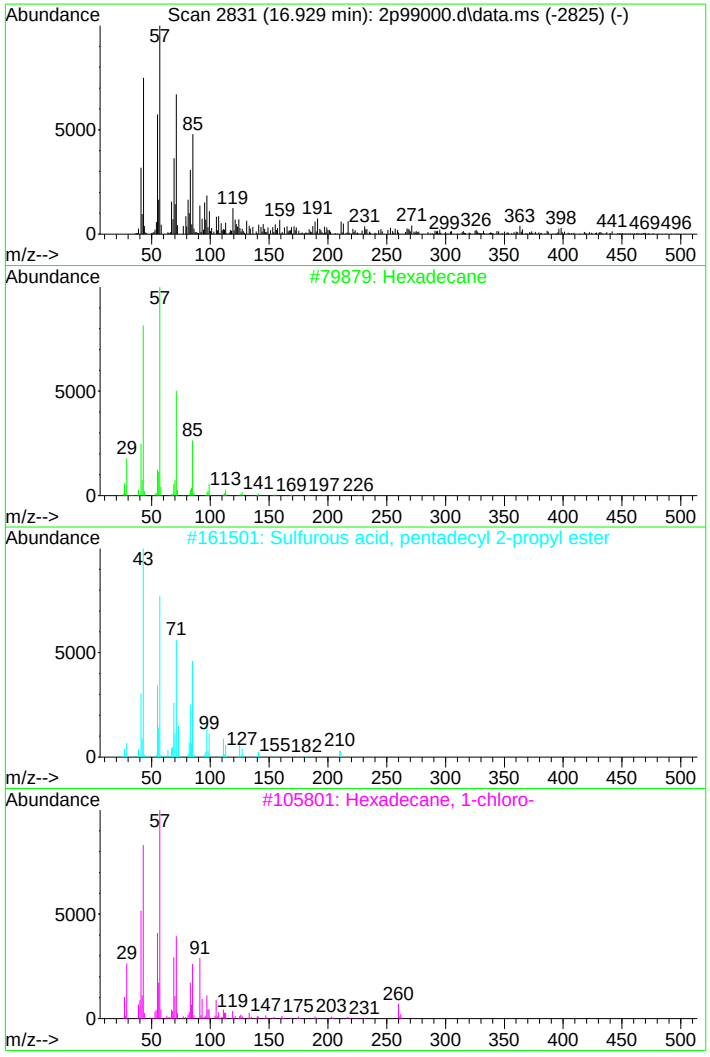
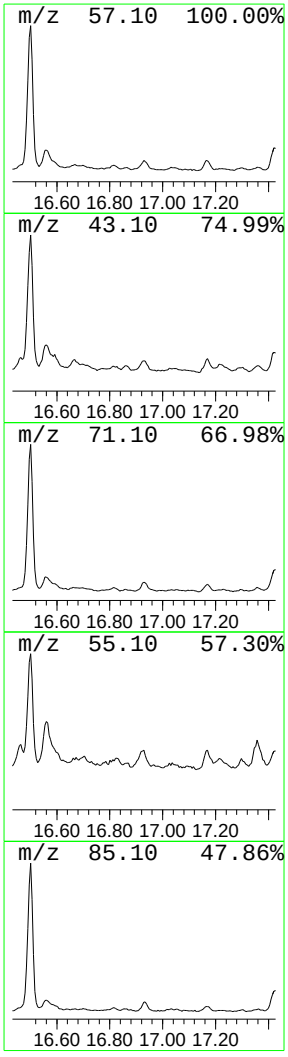
Peak Number 12 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.929	11.24 ppm	905250	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	83
2	Sulfurous acid, pentadecyl 2-pro...	334	C18H38O3S	1000309-12-6	72
3	Hexadecane, 1-chloro-	260	C16H33Cl	004860-03-1	72
4	Docosane, 1,22-dibromo-	466	C22H44Br2	034540-49-3	70
5	Tridecane, 6-propyl-	226	C16H34	055045-10-8	60





Library Search Compound Report

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Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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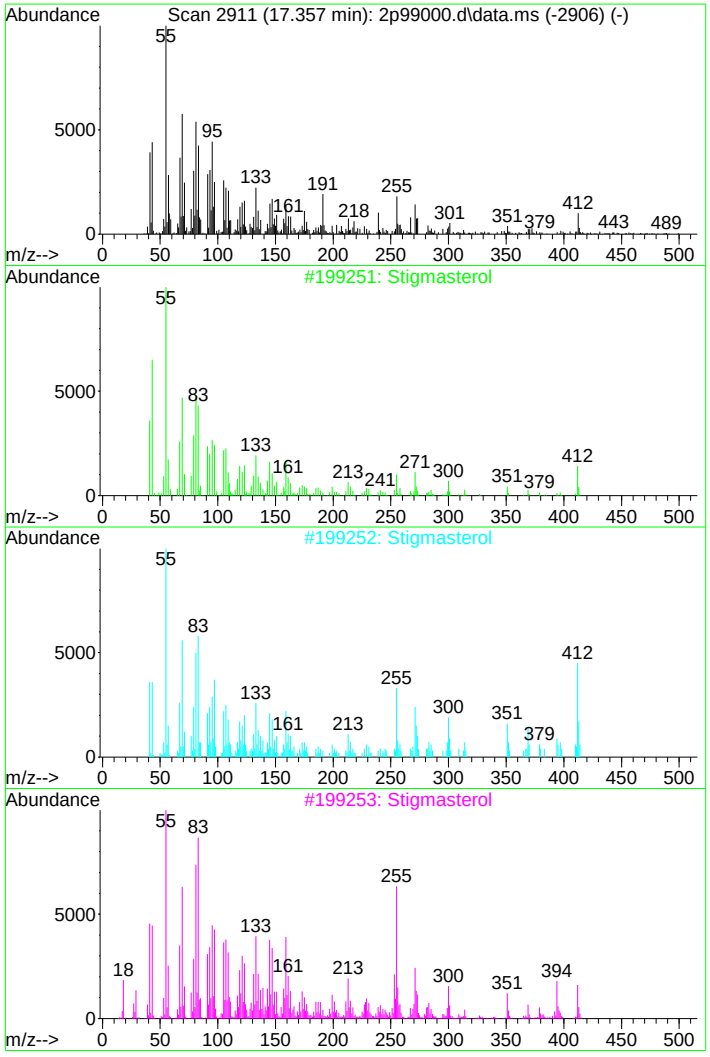
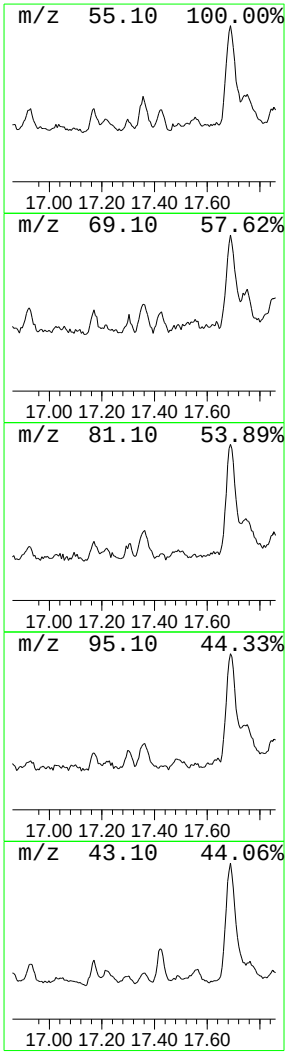
Peak Number 13 Stigmasterol Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.357	15.09 ppm	1216090	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmasterol	412	C29H48O	000083-48-7	93
2	Stigmasterol	412	C29H48O	000083-48-7	83
3	Stigmasterol	412	C29H48O	000083-48-7	64
4	Cholesta-22,24-dien-5-ol, 4,4-di...	412	C29H48O	1000128-66-1	52
5	Ergost-25-ene-3,5,6,12-tetrol, (...	448	C28H48O4	056052-97-2	32





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ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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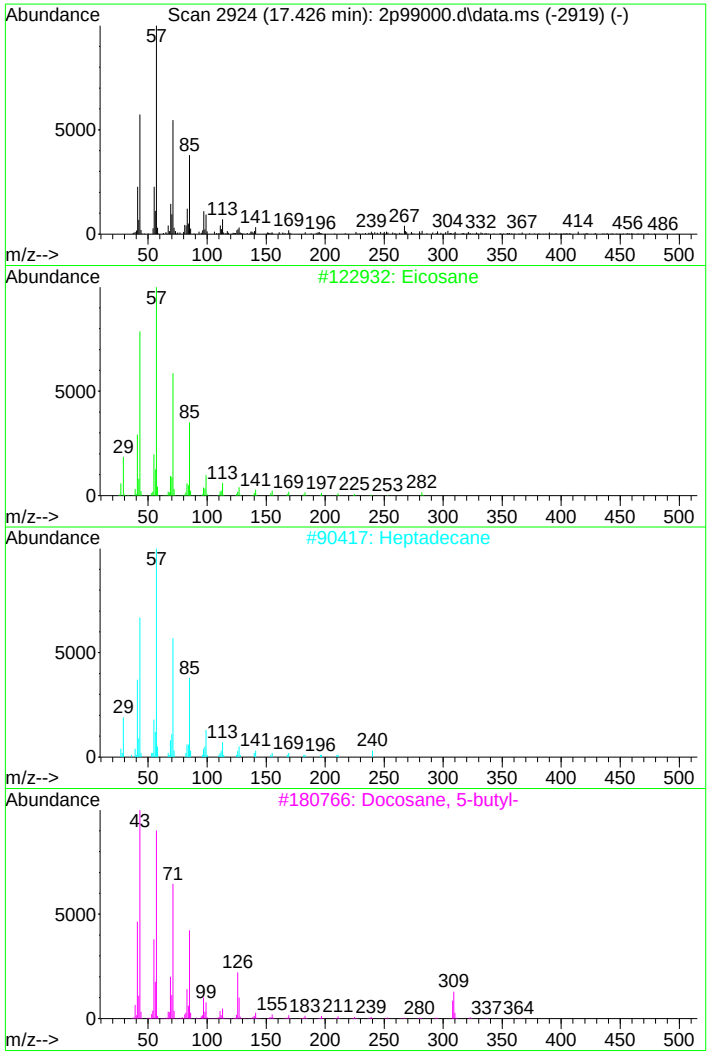
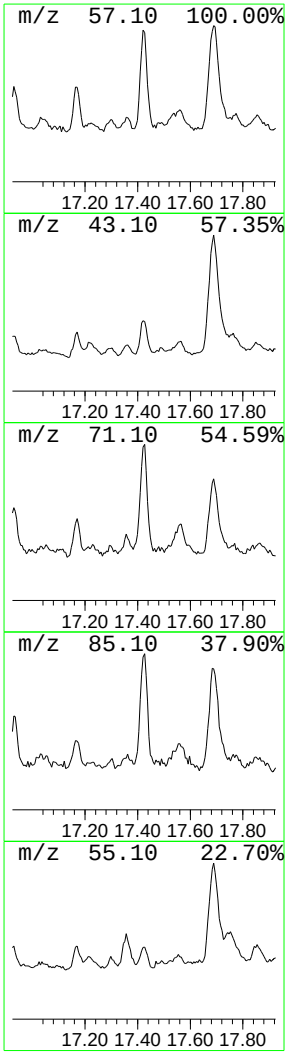
Peak Number 14 Alkane Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.426	10.76 ppm	866815	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	90
2	Heptadecane	240	C17H36	000629-78-7	90
3	Docosane, 5-butyl-	366	C26H54	055282-16-1	90
4	Octadecane, 5,14-dibutyl-	366	C26H54	055282-13-8	83
5	Tetratetracontane	619	C44H90	007098-22-8	83





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ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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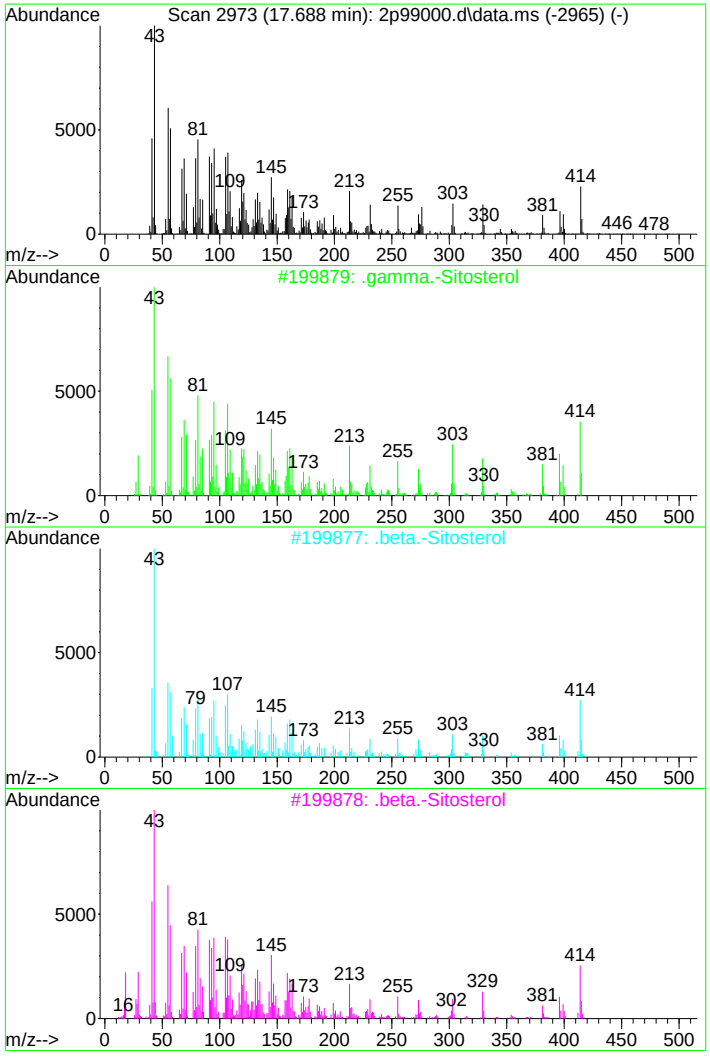
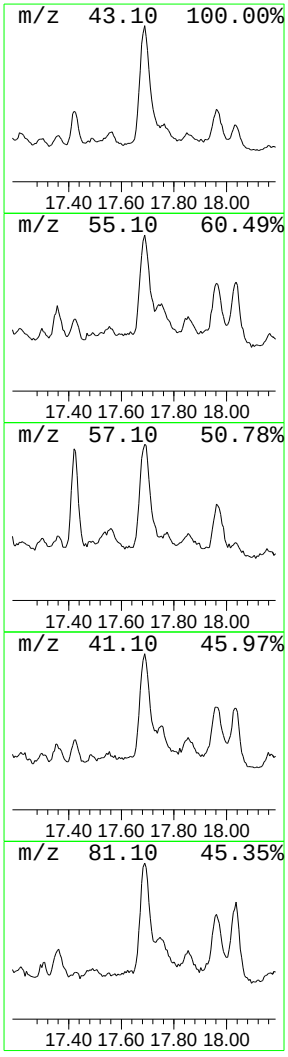
Peak Number 15 Sitosterol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.688	140.84 ppm	11346900	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
4	.gamma.-Sitosterol	414	C29H50O	000083-47-6	94
5	17-(1,5-Dimethylhexyl)-10,13-dim...	414	C29H50O	1000210-86-9	86





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ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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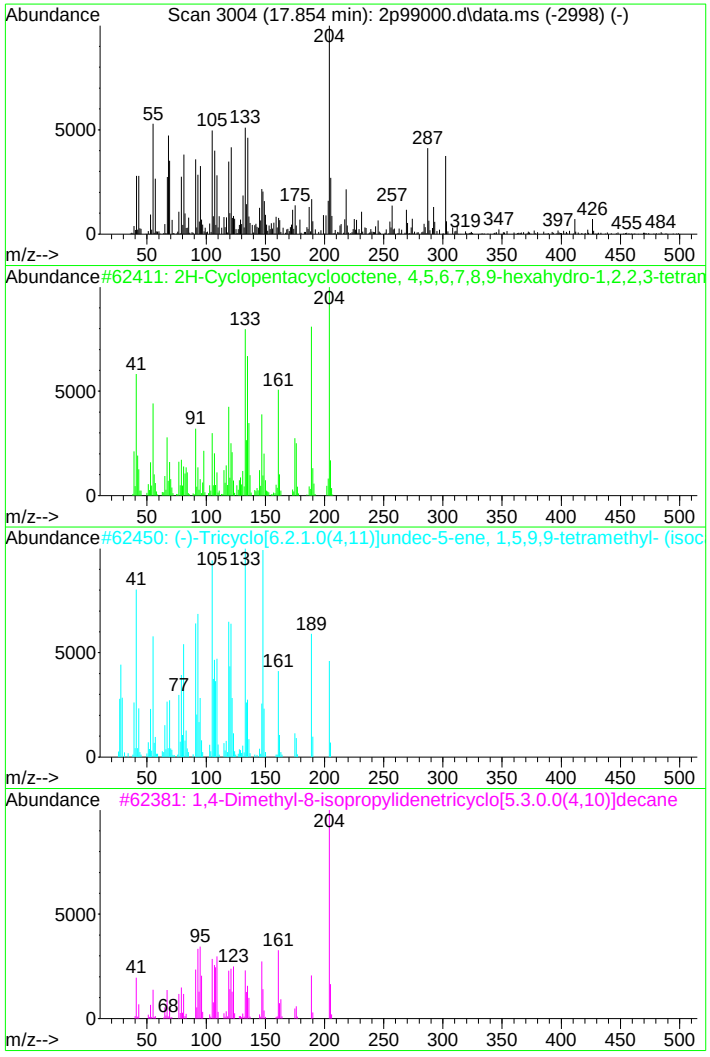
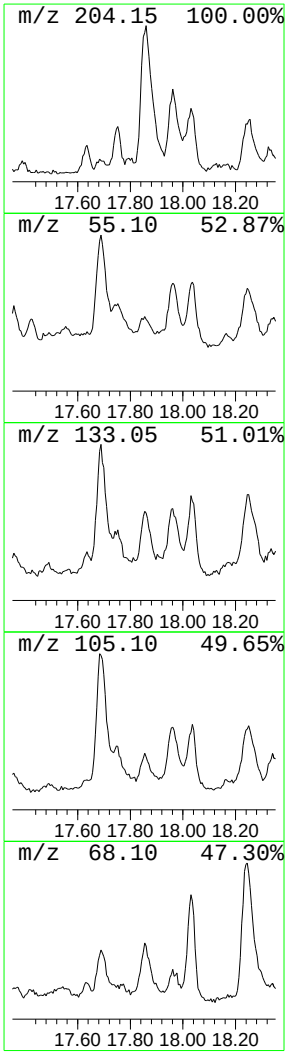
Peak Number 16 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.854	28.77 ppm	2317890	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2H-Cyclopentacyclooctene, 4,5,6,...	204	C15H24	1000221-85-8	53
2	(-)-Tricyclo[6.2.1.0(4,11)]undec...	204	C15H24	1000154-06-7	43
3	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1000140-07-7	30
4	1,4-Naphthalenedione, 5,8-dihydr...	204	C11H8O4	014554-09-7	25
5	.beta.-D-Glucopyranoside, methyl...	482	C19H46O6Si4	002296-40-4	16





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ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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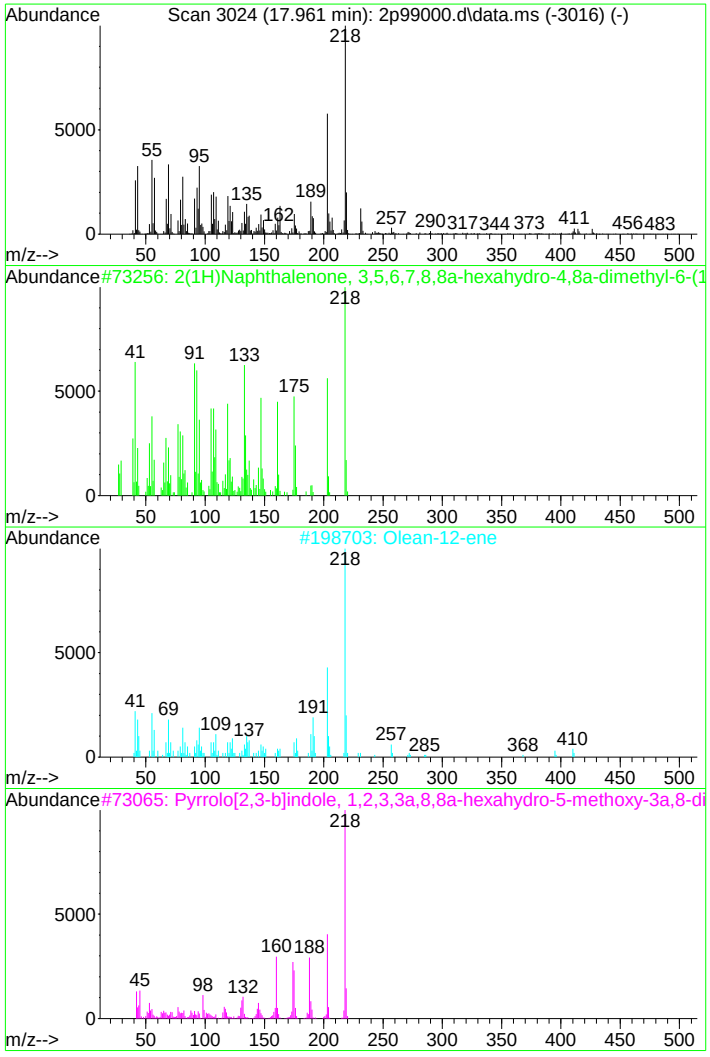
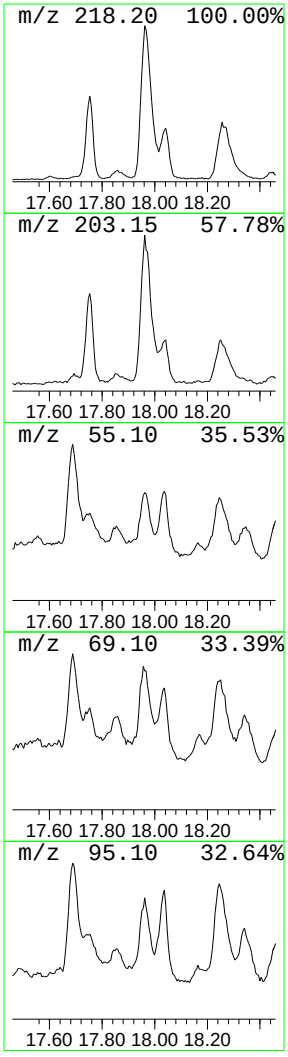
Peak Number 17 Unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.961	82.05 ppm	6610420	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(1H)Naphthalenone, 3,5,6,7,8,8a...	218	C15H22O	1000188-66-5	80
2	Olean-12-ene	410	C30H50	000471-68-1	72
3	Pyrrolo[2,3-b]indole, 1,2,3,3a,8...	218	C13H18N2O	046479-70-3	70
4	.alpha.-Amyrin	426	C30H50O	000638-95-9	60
5	(1S,6R,9S)-5,5,9,10-Tetramethylt...	218	C16H26	1000298-97-8	58





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ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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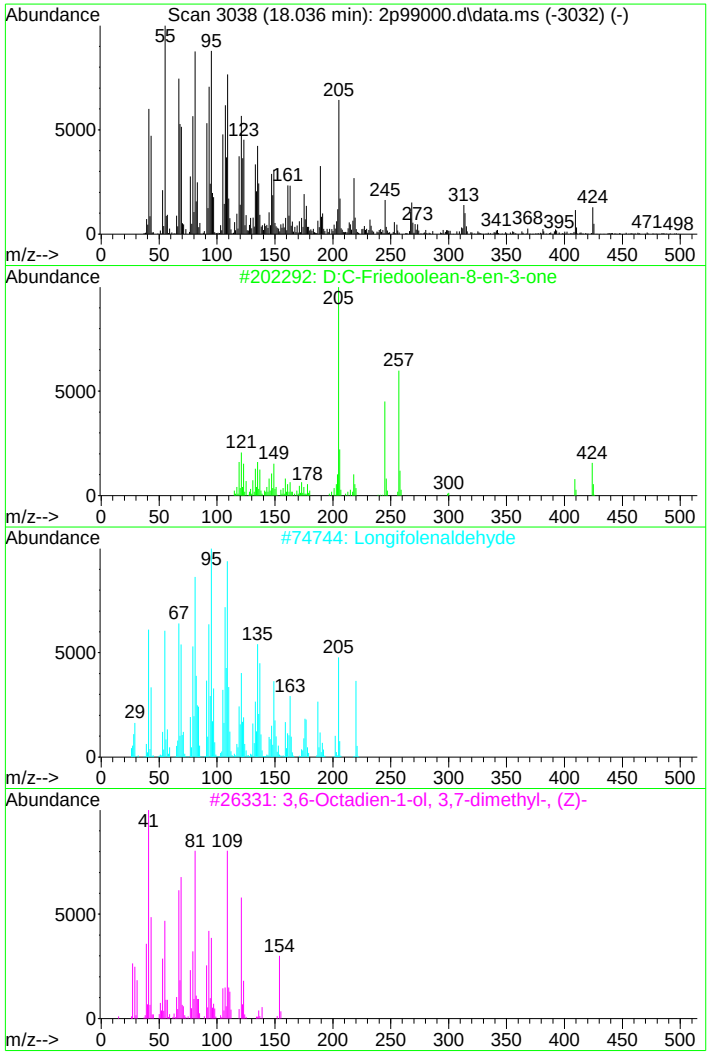
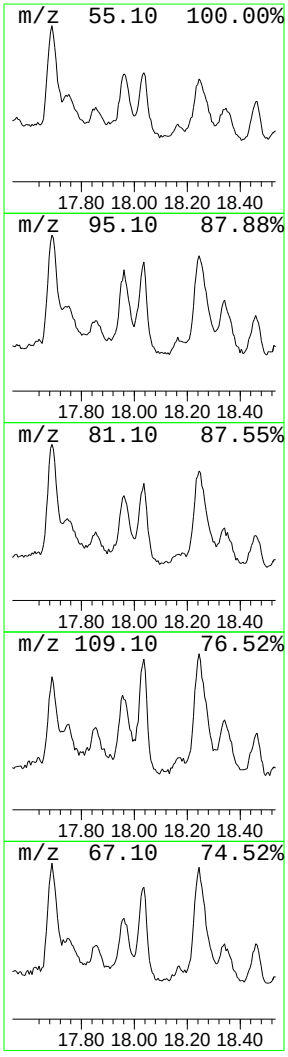
Peak Number 18 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.036	75.36 ppm	6071330	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D:C-Friedoolean-8-en-3-one	424	C30H48O	022611-26-3	94
2	Longifolenaldehyde	220	C15H24O	019890-84-7	50
3	3,6-Octadien-1-ol, 3,7-dimethyl-...	154	C10H18O	005944-20-7	49
4	Iridomyrmecin	168	C10H16O2	000485-43-8	49
5	1,5-Dibromo-3-cyclohexylpentane	310	C11H20Br2	070928-50-6	46





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Sample    : jd18939-2
Misc      : op31540,e2p4412,30.7,,,1,1
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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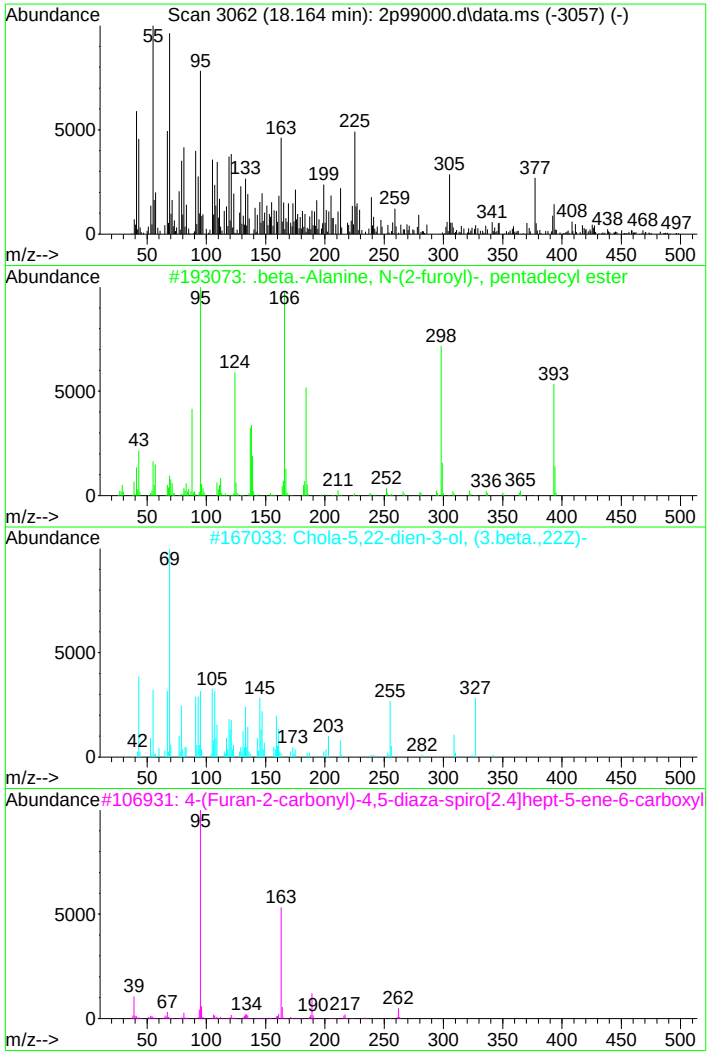
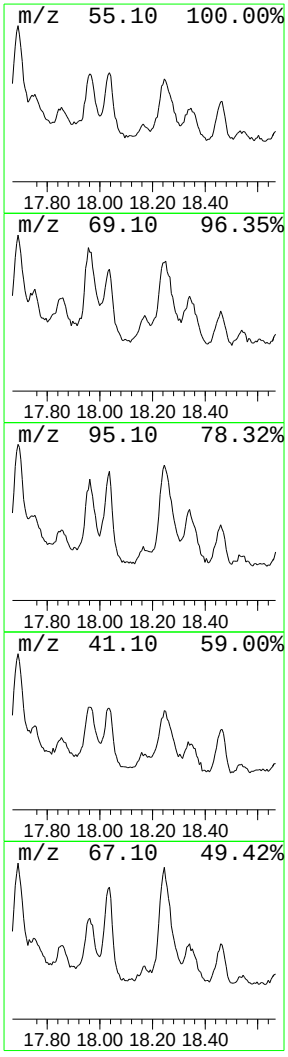
Peak Number 19 Unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.165	10.82 ppm	871524	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Alanine, N-(2-furoyl)-, p...	393	C23H39NO4	1000321-98-4	59
2	Chola-5,22-dien-3-ol, (3.beta.,2...	342	C24H38O	057597-14-5	18
3	4-(Furan-2-carbonyl)-4,5-diaza-s...	262	C13H14N2O4	1000276-03-0	16
4	1,3-Dioxolane, 4-butyl-5-ethyl-2...	294	C11H16F6O2	038363-90-5	12
5	1,3-Dioxolane, 4-butyl-5-ethyl-2...	294	C11H16F6O2	038363-91-6	12





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Sample    : jd18939-2
Misc      : op31540,e2p4412,30.7,,,1,1
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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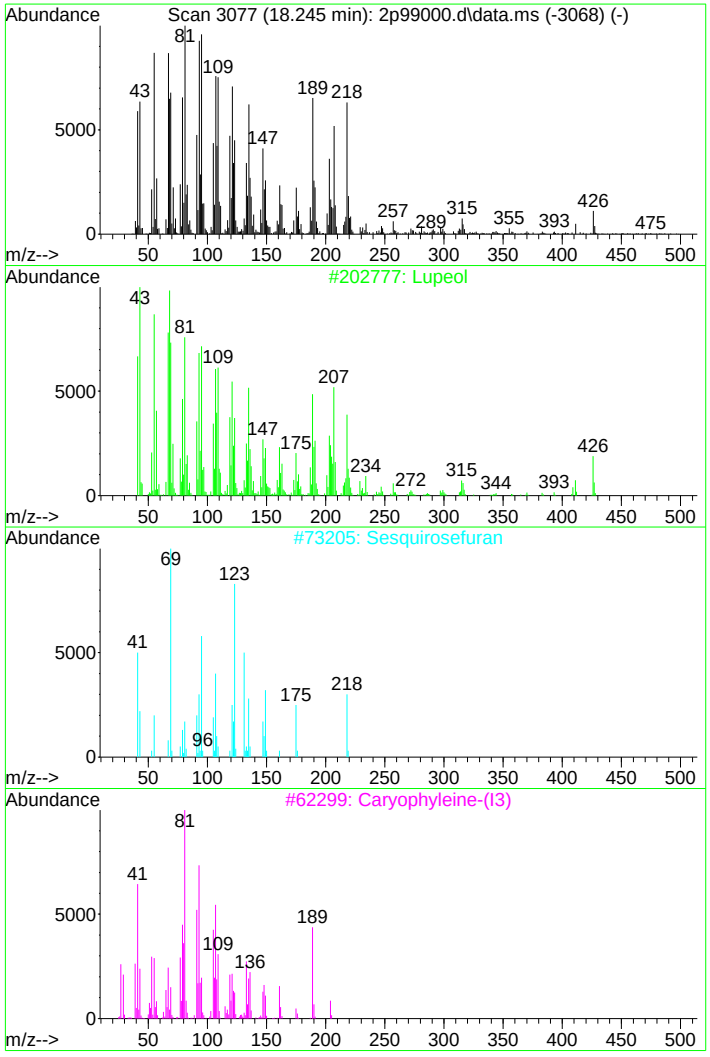
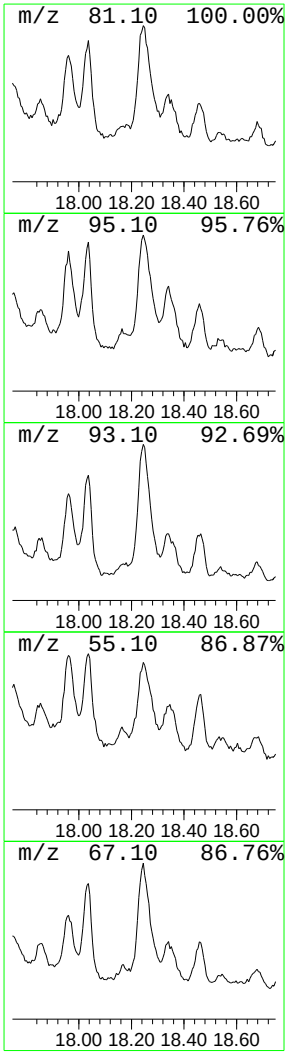
Peak Number 20 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.245	120.98 ppm	9747120	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Lupeol	426	C30H50O	000545-47-1	70
2	Sesquirosefuran	218	C15H22O	039007-93-7	55
3	Caryophyleine-(I3)	204	C15H24	136296-37-2	51
4	4,8-Methanoazulen-9-ol, decahydr...	222	C15H26O	004586-22-5	49
5	Taraxasterol	426	C30H50O	001059-14-9	47





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ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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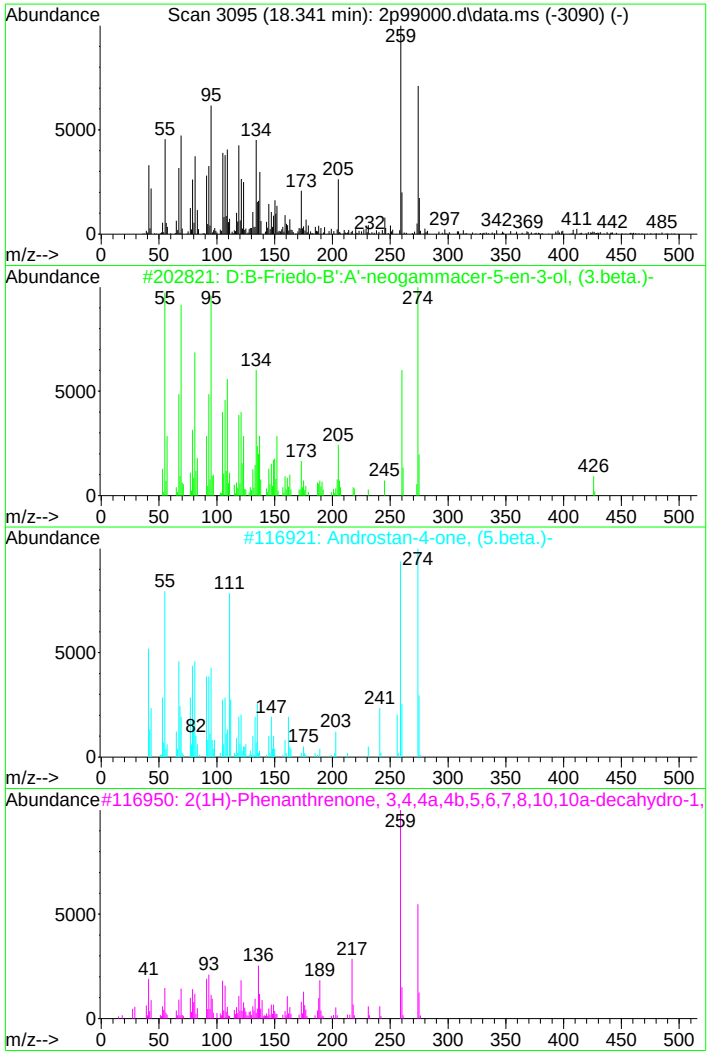
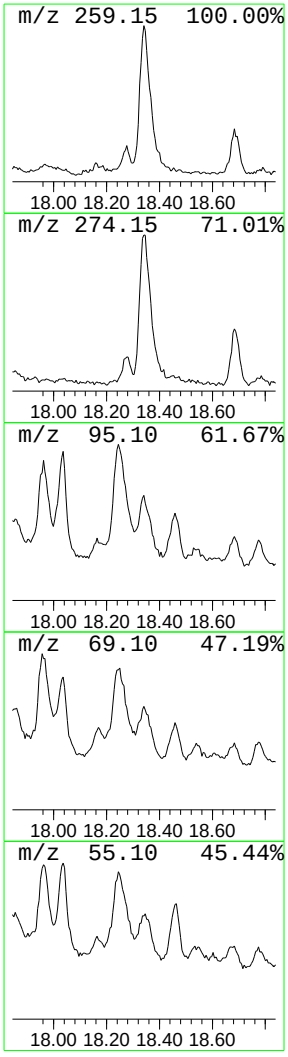
Peak Number 21 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.341	43.65 ppm	3516610	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D:B-Friedo-B':A'-neogammacer-5-e...	426	C30H50O	001615-94-7	43
2	Androstan-4-one, (5.beta.)-	274	C19H30O	013583-71-6	42
3	2(1H)-Phenanthrenone, 3,4,4a,4b,...	274	C19H30O	007715-44-8	38
4	10H-Phenoxaphosphine, 2-ethyl-10...	274	C15H15O3P	036360-91-5	35
5	1-[p-Nitrophenyl]-3-[2-pyrimidyl...	259	C11H9N5O3	023656-31-7	27





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ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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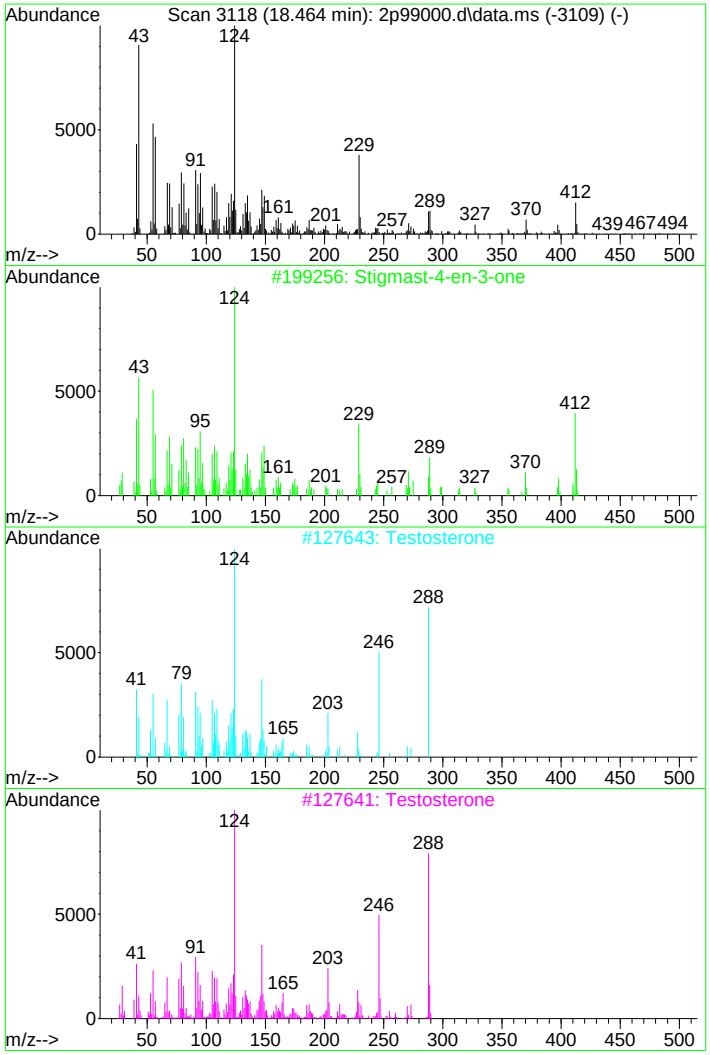
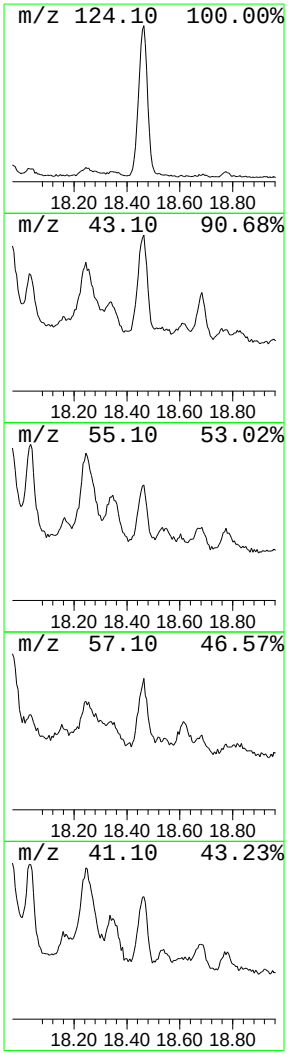
Peak Number 22 Stigmastenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.464	47.49 ppm	3826450	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	96
2	Testosterone	288	C19H28O2	000058-22-0	70
3	Testosterone	288	C19H28O2	000058-22-0	70
4	Androst-4-en-3-one, 17-hydroxy-,...	288	C19H28O2	000604-39-7	49
5	5-Bromovaleric acid, 2,6-dimethy...	328	C16H25BrO2	1000292-56-9	49





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Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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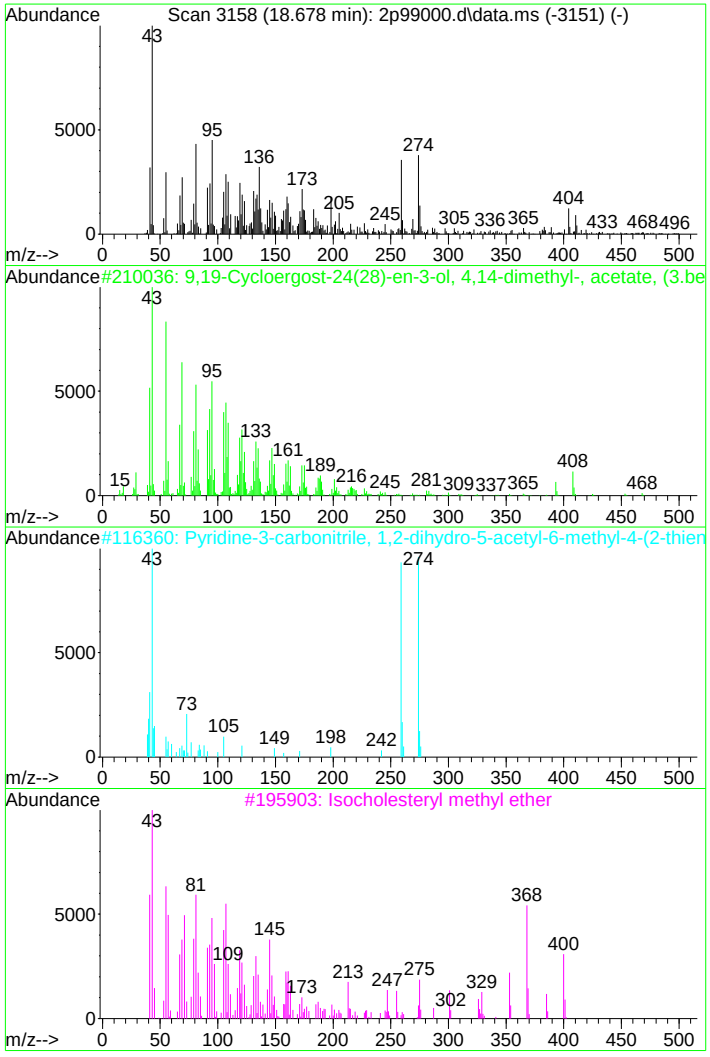
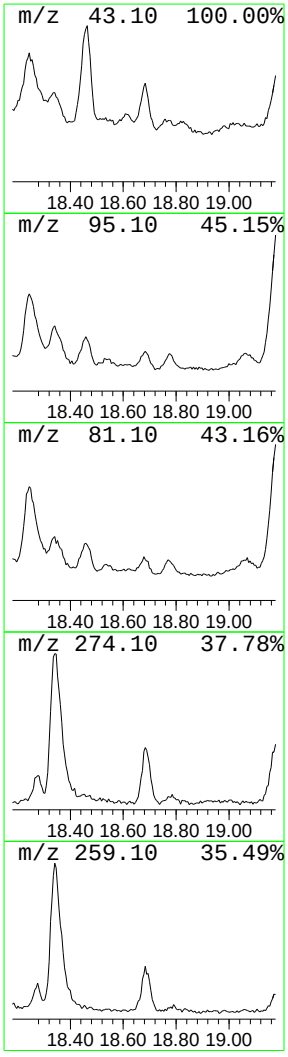
Peak Number 23 Unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.678	28.29 ppm	2279610	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,19-Cycloergost-24(28)-en-3-ol,...	468	C32H52O2	010376-42-8	18
2	Pyridine-3-carbonitrile, 1,2-dih...	274	C13H10N2OS2	179088-20-1	14
3	Isocholesteryl methyl ether	400	C28H48O	029944-53-4	9
4	5.beta.,6.beta.-Epoxycholest-7-e...	400	C27H44O2	095841-71-7	9
5	Octopamine	153	C8H11NO2	000104-14-3	7





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

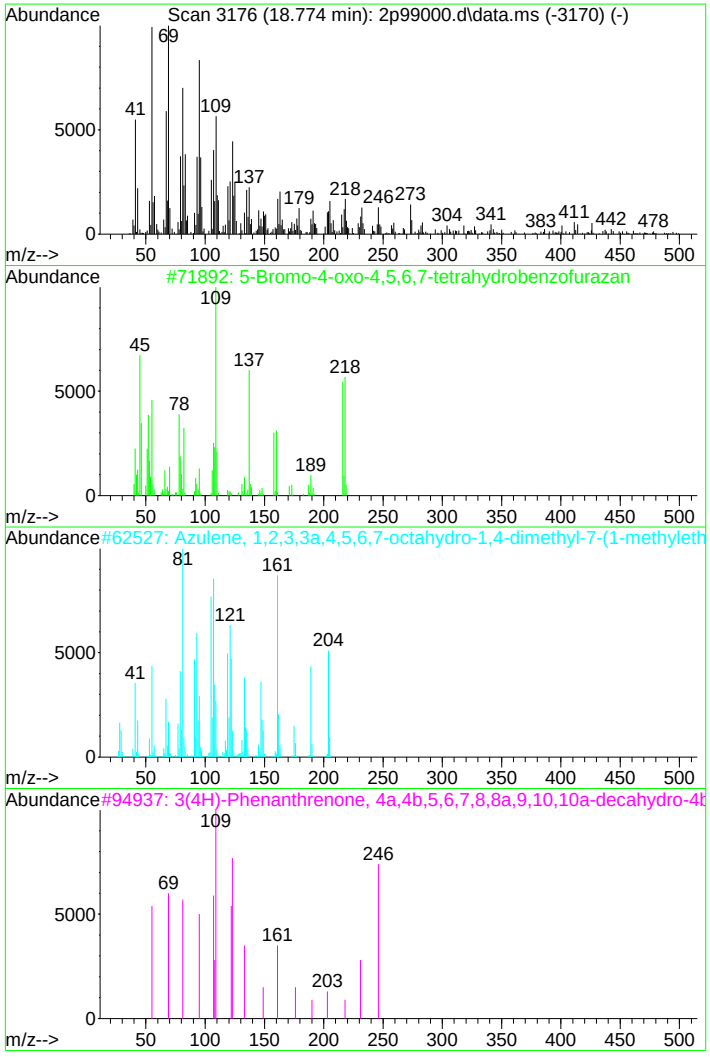
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

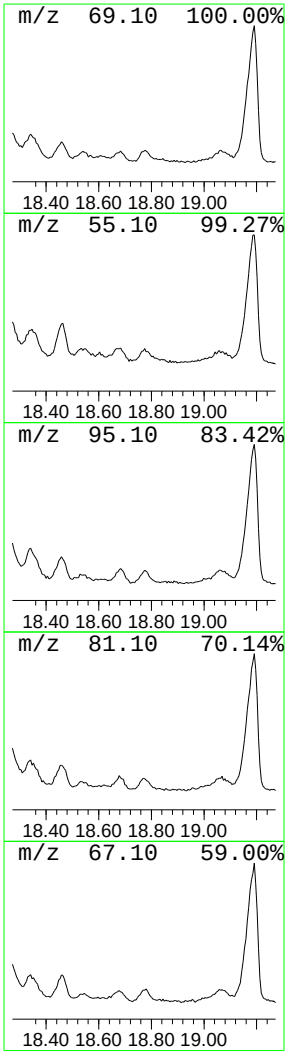
****

Peak Number 24 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.774	17.22 ppm	1387720	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Bromo-4-oxo-4,5,6,7-tetrahydro...	216	C6H5BrN2O2	300574-36-1	68
2	Azulene, 1,2,3,3a,4,5,6,7-octahy...	204	C15H24	022567-17-5	59
3	3(4H)-Phenanthrenone, 4a,4b,5,6,...	246	C17H26O	057684-12-5	52
4	Sandaracopimar-15-ene-6.beta.,8....	322	C20H34O3	041756-31-4	50
5	Bicyclo[3.1.1]heptane, 2,6,6-tri...	138	C10H18	000473-55-2	42





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

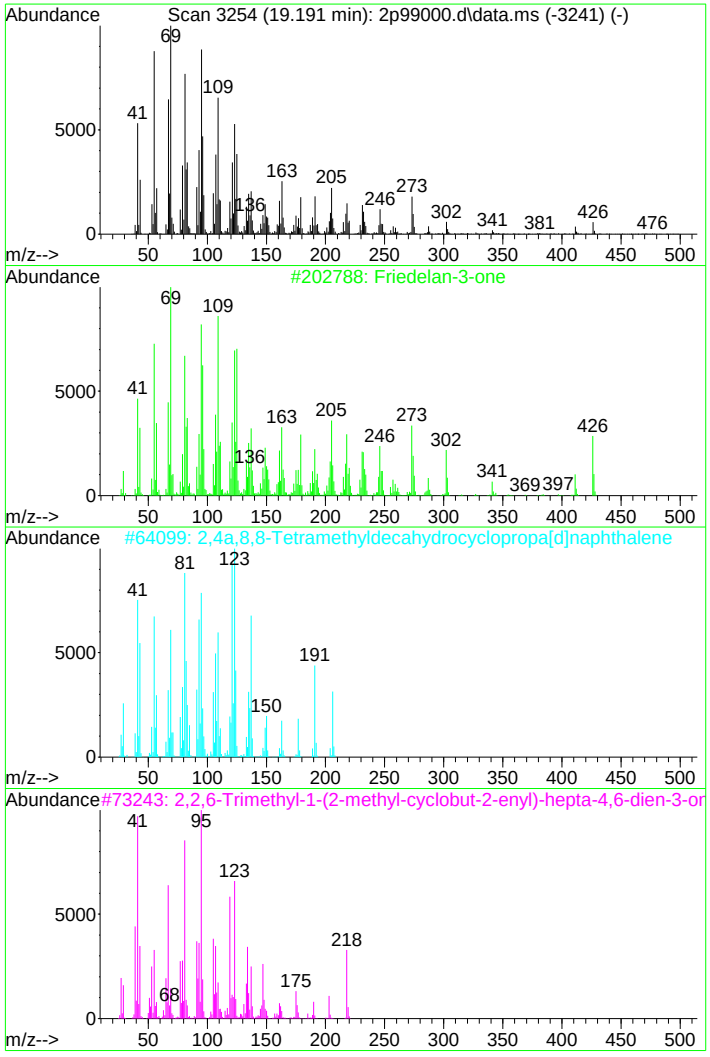
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

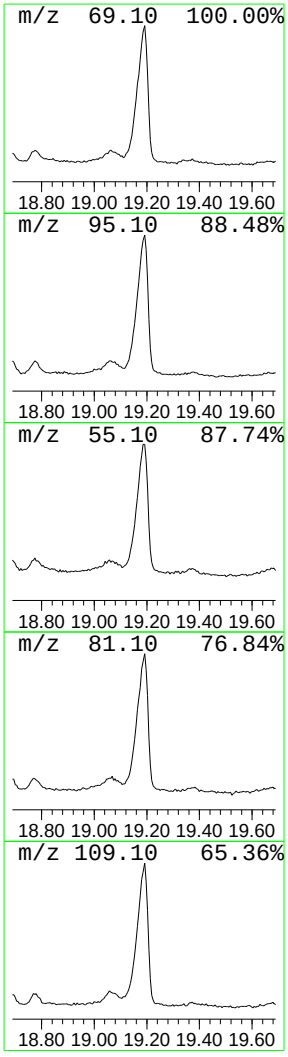
****

Peak Number 25 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.191	178.20 ppm	14356800	Perylene-d12	15.752

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Friedelan-3-one	426	C30H50O	000559-74-0	96
2	2,4a,8,8-Tetramethyldecahydrocyc...	206	C15H26	074022-04-1	86
3	2,2,6-Trimethyl-1-(2-methyl-cycl...	218	C15H22O	1000188-72-8	64
4	5-Bromo-4-oxo-4,5,6,7-tetrahydro...	216	C6H5BrN2O2	300574-36-1	59
5	7-Tetradecyne	194	C14H26	035216-11-6	49





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99000.d
Acq On : 15 Jan 2021 9:44 pm
Operator : hennys
Sample : jd18939-2
Misc : op31540,e2p4412,30.7,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Bisnorabieta-pe...	11.479	15.8	ppm	1453490	11	9.462	3678150	40.0
Alkane	14.677	28.0	ppm	4070990	14	13.629	5818250	40.0
Unknown	15.132	14.1	ppm	1137650	15	15.752	3222700	40.0
Unknown	15.340	8.5	ppm	682171	15	15.752	3222700	40.0
Alkane	15.618	99.5	ppm	8012600	15	15.752	3222700	40.0
Unknown	16.057	11.9	ppm	954698	15	15.752	3222700	40.0
Unknown alcohols	16.260	16.4	ppm	1325650	15	15.752	3222700	40.0
Unknown	16.464	21.3	ppm	1716440	15	15.752	3222700	40.0
Alkane	16.501	74.7	ppm	6015640	15	15.752	3222700	40.0
Unknown	16.560	35.7	ppm	2875660	15	15.752	3222700	40.0
Unknown	16.827	10.9	ppm	880153	15	15.752	3222700	40.0
Unknown	16.929	11.2	ppm	905250	15	15.752	3222700	40.0
Stigmasterol	17.357	15.1	ppm	1216090	15	15.752	3222700	40.0
Alkane	17.426	10.8	ppm	866815	15	15.752	3222700	40.0
Sitosterol	17.688	140.8	ppm	11346900	15	15.752	3222700	40.0
Unknown	17.854	28.8	ppm	2317890	15	15.752	3222700	40.0
Unknown	17.961	82.0	ppm	6610420	15	15.752	3222700	40.0
Unknown	18.036	75.4	ppm	6071330	15	15.752	3222700	40.0
Unknown	18.165	10.8	ppm	871524	15	15.752	3222700	40.0
Unknown	18.245	121.0	ppm	9747120	15	15.752	3222700	40.0
Unknown	18.341	43.6	ppm	3516610	15	15.752	3222700	40.0
Stigmastenone	18.464	47.5	ppm	3826450	15	15.752	3222700	40.0
Unknown	18.678	28.3	ppm	2279610	15	15.752	3222700	40.0
Unknown	18.774	17.2	ppm	1387720	15	15.752	3222700	40.0
Unknown	19.191	178.2	ppm	14356800	15	15.752	3222700	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3 Inst : MS2P
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 04:09:12 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.435	152	491760	40.00	ppm	0.00
24) Naphthalene-d8	5.419	136	1732455	40.00	ppm	0.00
47) Acenaphthene-d10	7.350	164	994022	40.00	ppm	0.00
69) Phenanthrene-d10	9.468	188	1587733	40.00	ppm	0.00
83) Chrysene-d12	13.640	240	1429985	40.00	ppm	0.02
91) Perylene-d12	15.758	264	1579449	40.00	ppm	0.03
101) 1,4-Dichlorobenzene-d4a	4.435	152	491760	40.00	ppm	0.00
103) Naphthalene-d8a	5.419	136	1732455	40.00	ppm	0.00
105) Acenaphthene-d10a	7.350	164	994022	40.00	ppm	0.00
107) Chrysene-d12a	13.640	240	1429985	40.00	ppm	0.02
109) Phenanthrene-d10a	9.468	188	1587733	40.00	ppm	0.00
112) 1,4-Dichlorobenzene-d4b	4.435	152	491760	40.00	ppm	0.00
115) Acenaphthene-d10b	7.350	164	994620	40.00	ppm	0.00
117) Phenanthrene-d10b	9.468	188	1587733	40.00	ppm	0.00
120) Chrysene-d12b	13.640	240	1429985	40.00	ppm	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.520	112	388169	23.16	ppm	0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 46.32%			
8) Phenol-d5	4.231	99	502615	23.68	ppm	0.01
Spiked Amount 50.000	Range 10 - 59		Recovery = 47.36%			
25) Nitrobenzene-d5	4.841	82	584213	30.04	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 60.08%			
51) 2-Fluorobiphenyl	6.526	172	832652	25.47	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 50.94%			
73) 2,4,6-Tribromophenol	8.457	330	167715	29.21	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 58.42%			
85) Terphenyl-d14	12.024	244	1041964	31.29	ppm	0.02
Spiked Amount 50.000	Range 16 - 65		Recovery = 62.58%			
118) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
119) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
Target Compounds						Qvalue
38) Naphthalene	5.440	128	10373	0.24	ppm	93
44) 2-Methylnaphthalene	6.114	141	4143	0.18	ppm	96
56) Acenaphthylene	7.162	152	67041	1.47	ppm	97
59) Acenaphthene	7.387	153	12714	0.42	ppm	98
62) Dibenzofuran	7.628	168	10595	0.26	ppm	90
66) Fluorene	8.098	166	18894	0.58	ppm	97
77) Phenanthrene	9.500	178	503302	11.92	ppm	99
78) Anthracene	9.580	178	177140	4.19	ppm	98
79) Carbazole	9.874	167	48204	1.21	ppm	96
81) Fluoranthene	11.356	202	1640041	35.39	ppm	98
84) Pyrene	11.693	202	1492849	35.19	ppm	97
87) Benzo[a]anthracene	13.623	228	811968	19.53	ppm	99
89) Chrysene	13.672	228	758470	19.05	ppm	98
93) Benzo[b]fluoranthene	15.239	252	1097761	23.27	ppm	97
94) Benzo[k]fluoranthene	15.271	252	299074	6.87	ppm	96
95) Benzo[a]pyrene	15.672	252	781225	19.07	ppm	96
96) Indeno[1,2,3-cd]pyrene	17.122	276	586570	13.35	ppm	97
98) Dibenz[a,h]anthracene	17.138	278	158747	3.48	ppm	95
100) Benzo[g,h,i]perylene	17.475	276	578861	13.37	ppm	99

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3 Inst : MS2P
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 04:09:12 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

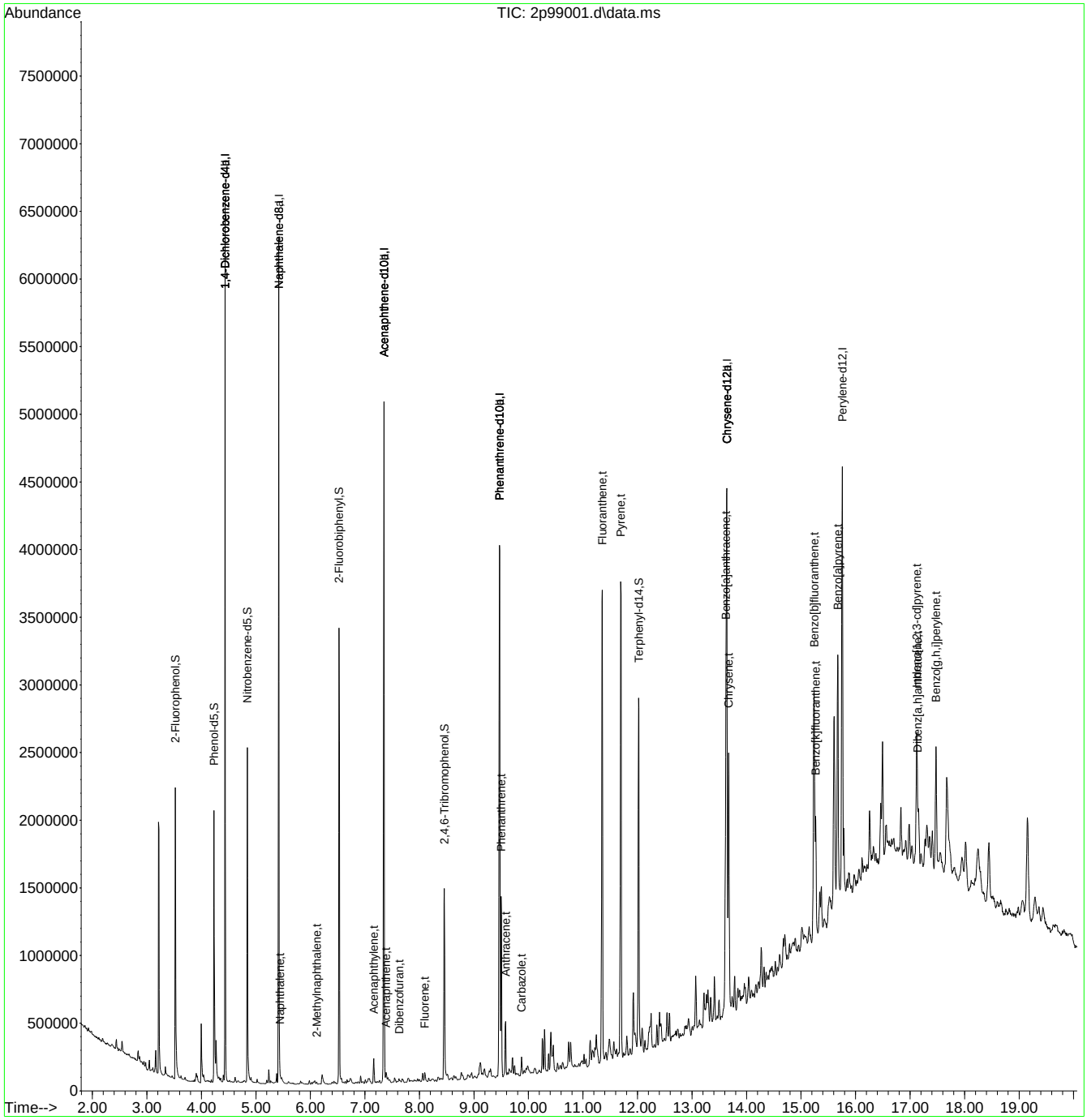
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

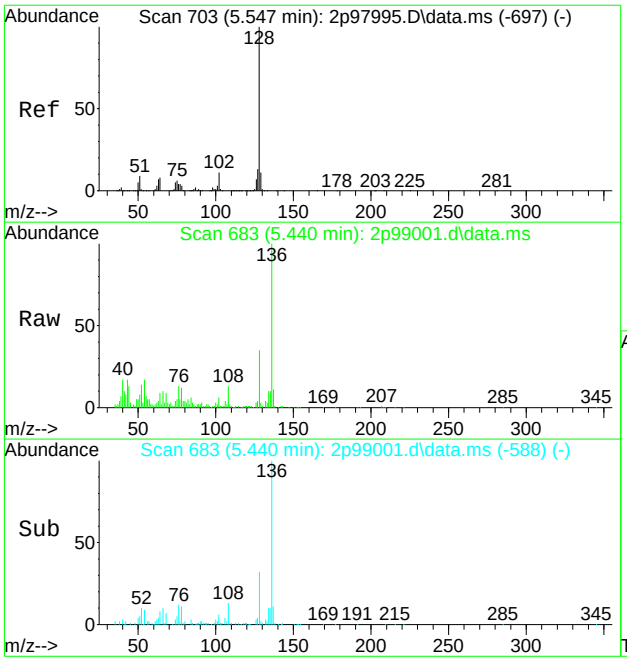
Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3 Inst : MS2P
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 04:09:12 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration



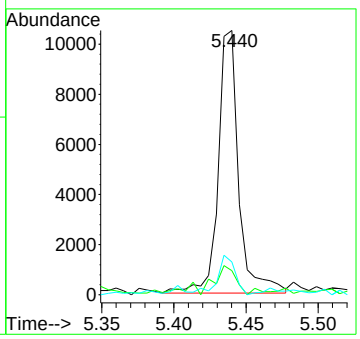
M2P4365.M Mon Jan 18 05:02:19 2021 Page: 3

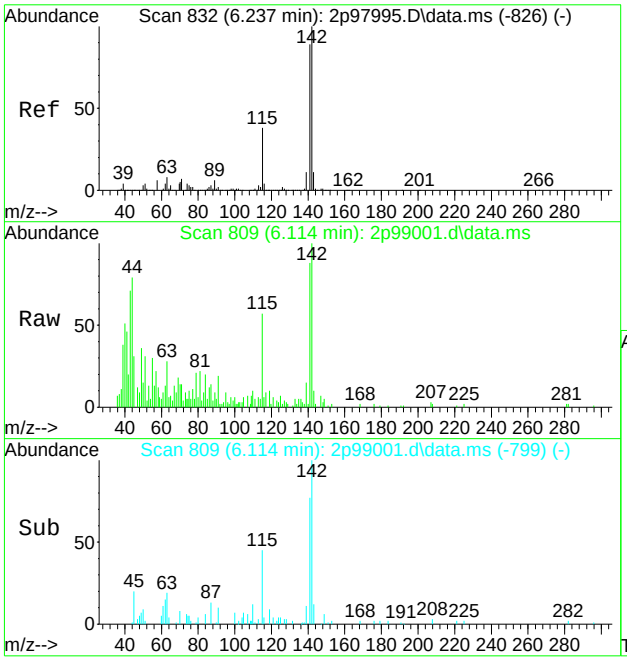


#38
Naphthalene
Concen: 0.24 ppm
RT: 5.440 min Scan# 683
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:128 Resp: 10373

Ion	Ratio	Lower	Upper
128	100		
129	7.6	0.0	41.2
127	11.7	0.0	43.7

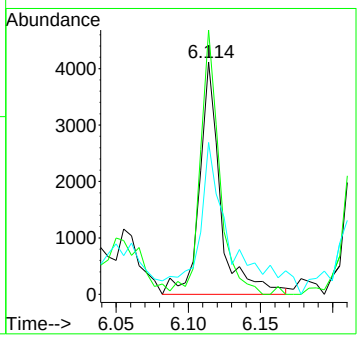


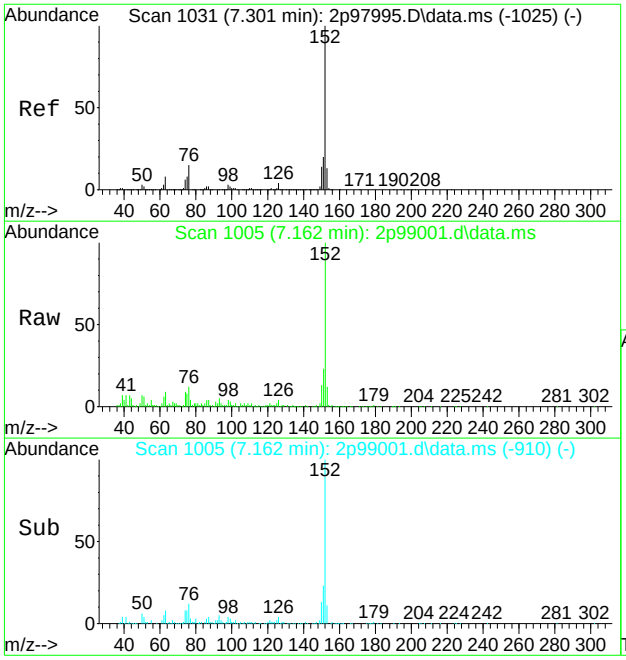


#44
2-Methylnaphthalene
Concen: 0.18 ppm
RT: 6.114 min Scan# 809
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:141 Resp: 4143

Ion	Ratio	Lower	Upper
141	100		
142	113.0	88.6	148.6
115	58.2	27.1	87.1

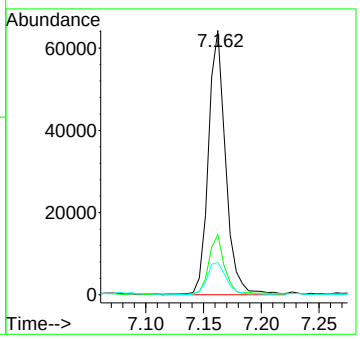


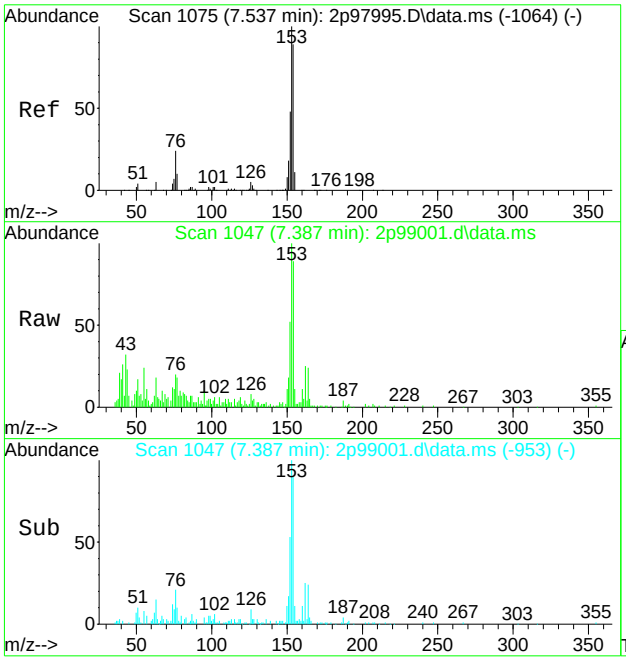


#56
Acenaphthylene
Concen: 1.47 ppm
RT: 7.162 min Scan# 1005
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:152 Resp: 67041

Ion	Ratio	Lower	Upper
152	100		
151	22.4	0.0	50.7
153	12.0	0.0	42.9

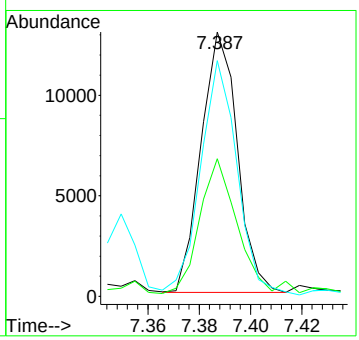


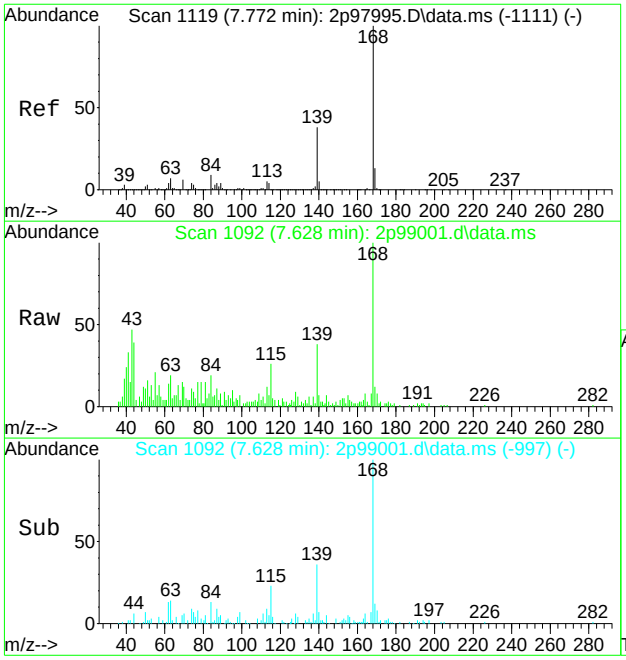


#59
Acenaphthene
Concen: 0.42 ppm
RT: 7.387 min Scan# 1047
Delta R.T. 0.000 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:153 Resp: 12714

Ion	Ratio	Lower	Upper
153	100		
152	49.4	18.0	78.0
154	88.5	60.1	120.1

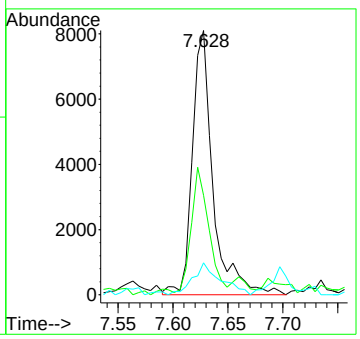


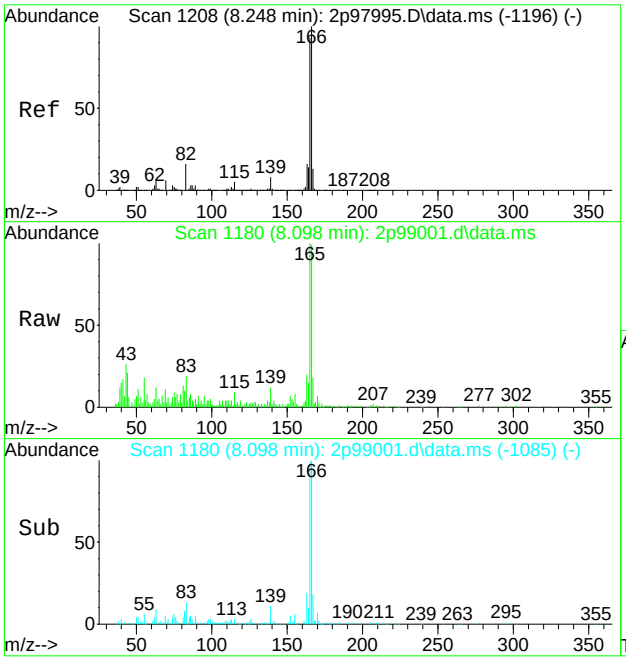


#62
Dibenzofuran
Concen: 0.26 ppm
RT: 7.628 min Scan# 1092
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:168 Resp: 10595

Ion	Ratio	Lower	Upper
168	100		
139	34.9	10.6	70.6
169	8.0	0.0	42.9

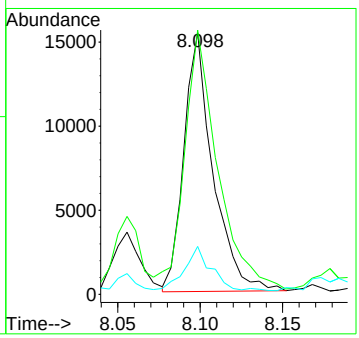


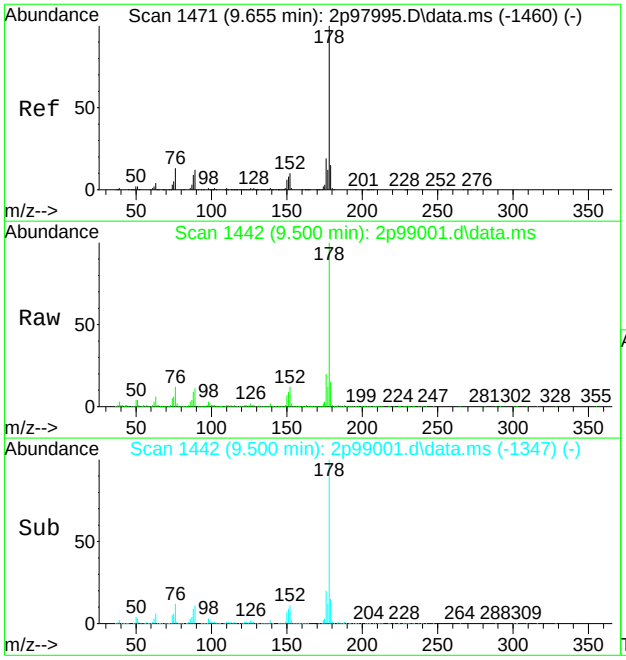


#66
Fluorene
Concen: 0.58 ppm
RT: 8.098 min Scan# 1180
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:166 Resp: 18894

Ion	Ratio	Lower	Upper
166	100		
165	97.9	65.3	125.3
167	16.3	0.0	43.3

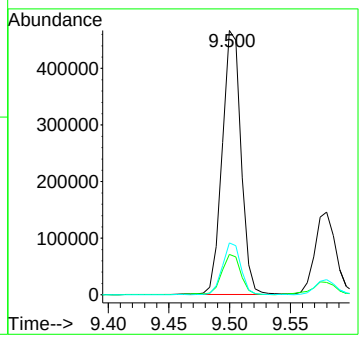


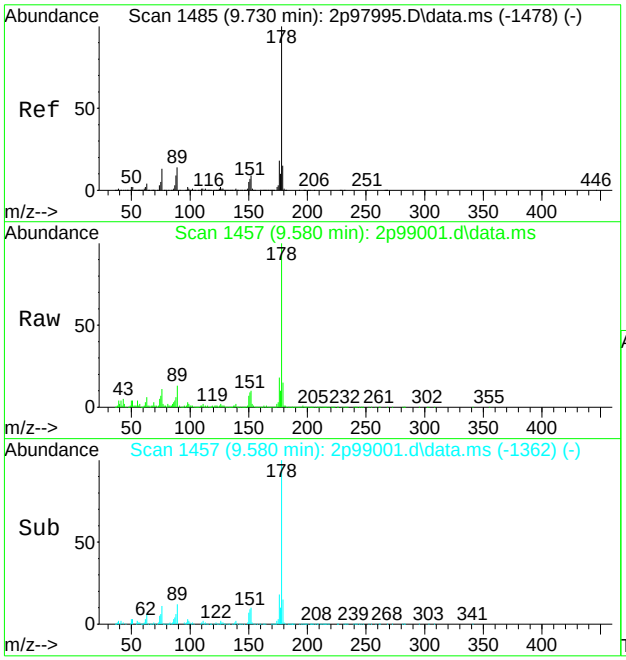


#77
Phenanthrene
Concen: 11.92 ppm
RT: 9.500 min Scan# 1442
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:178 Resp: 503302

Ion	Ratio	Lower	Upper
178	100		
179	15.0	0.0	44.9
176	19.6	0.0	49.2

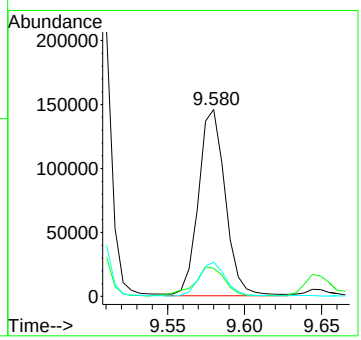


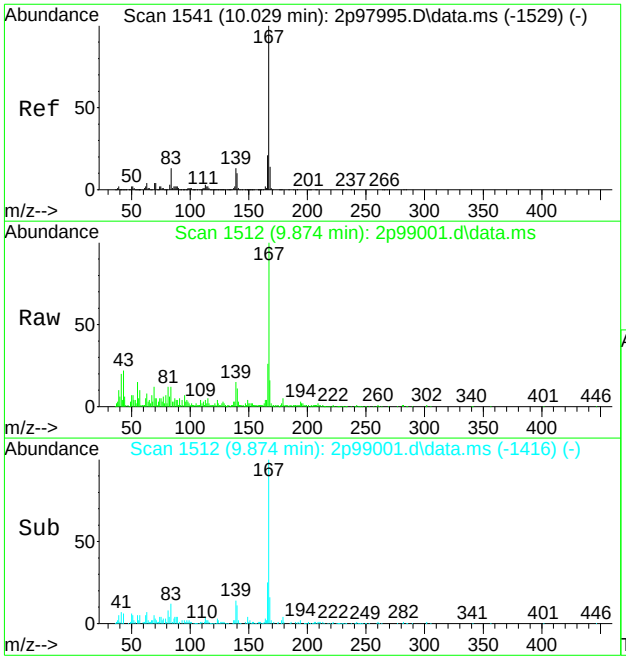


#78
Anthracene
Concen: 4.19 ppm
RT: 9.580 min Scan# 1457
Delta R.T. 0.006 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:178 Resp: 177140

Ion	Ratio	Lower	Upper
178	100		
179	14.4	0.0	44.8
176	18.2	0.0	49.1

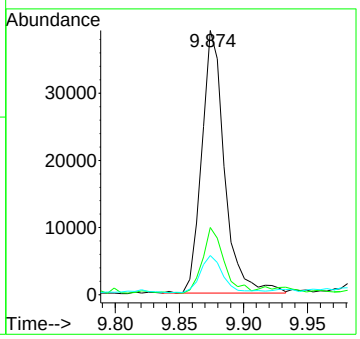


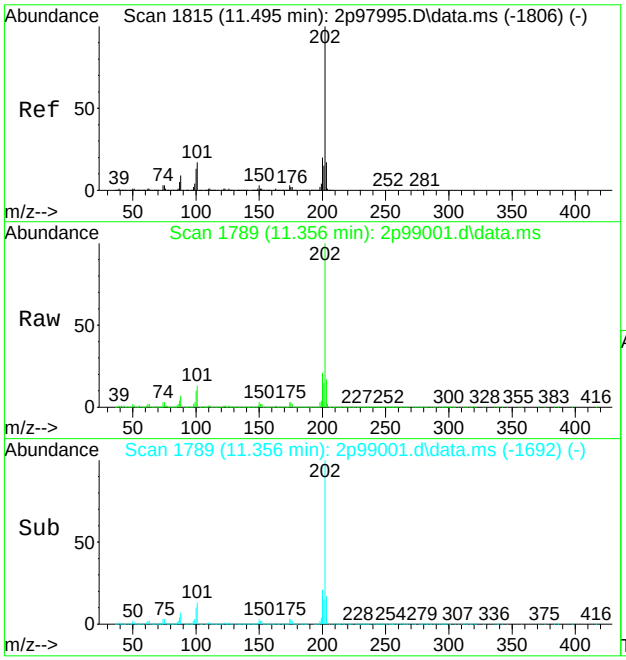


#79
Carbazole
Concen: 1.21 ppm
RT: 9.874 min Scan# 1512
Delta R.T. 0.011 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:167 Resp: 48204

Ion	Ratio	Lower	Upper
167	100		
166	23.7	0.0	51.3
139	13.5	0.0	44.4

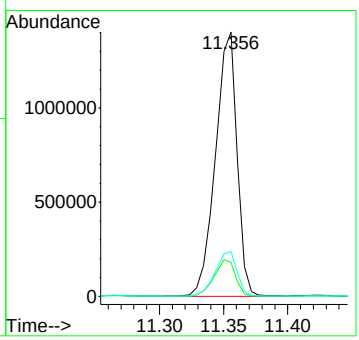


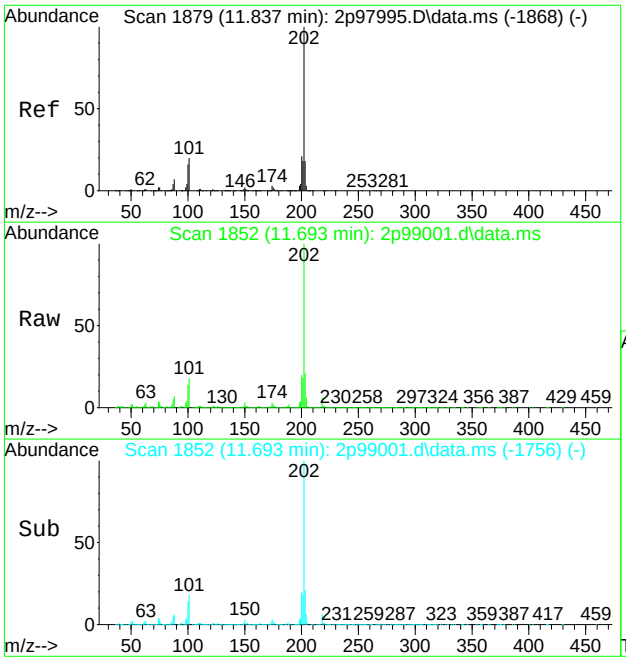


#81
Fluoranthene
Concen: 35.39 ppm
RT: 11.356 min Scan# 1789
Delta R.T. 0.016 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:202 Resp: 1640041

Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	43.7
203	16.9	0.0	46.5

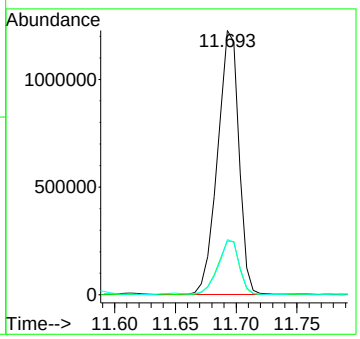


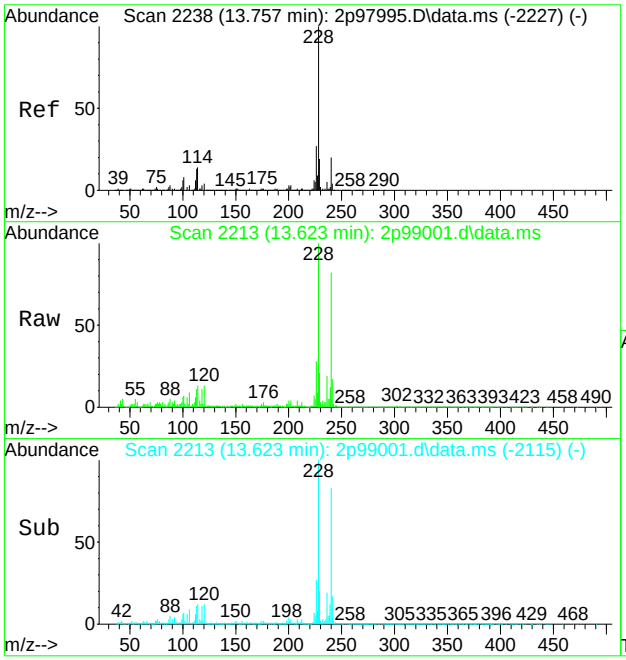


#84
Pyrene
Concen: 35.19 ppm
RT: 11.693 min Scan# 1852
Delta R.T. 0.011 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:202 Resp: 1492849

Ion	Ratio	Lower	Upper
202	100		
200	20.4	0.0	50.9
203	20.6	0.0	47.9

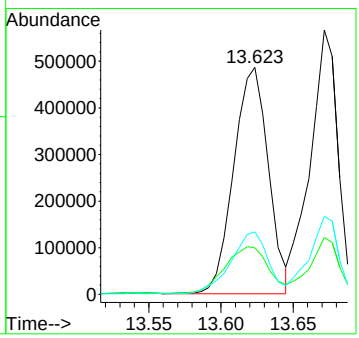


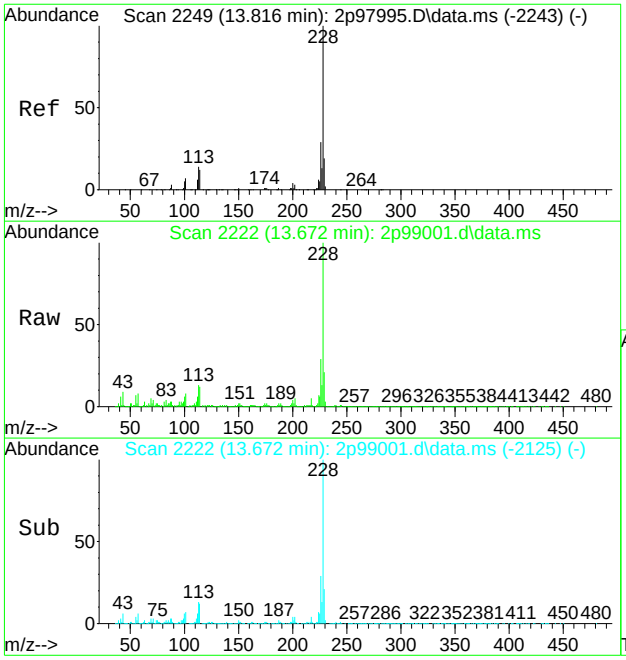


#87
Benzo[a]anthracene
Concen: 19.53 ppm
RT: 13.623 min Scan# 2213
Delta R.T. 0.022 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:228 Resp: 811968

Ion	Ratio	Lower	Upper
228	100		
229	19.3	0.0	50.0
226	27.2	0.0	56.8

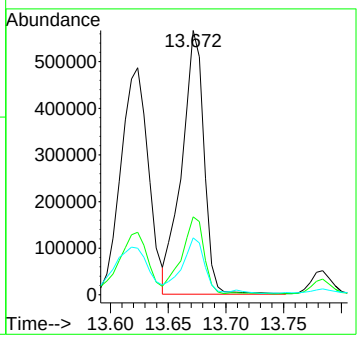


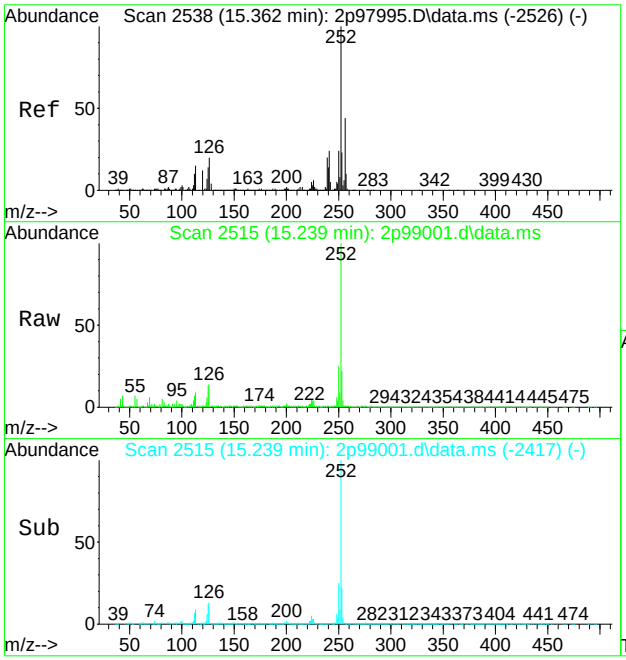


#89
Chrysene
Concen: 19.05 ppm
RT: 13.672 min Scan# 2222
Delta R.T. 0.016 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:228 Resp: 758470

Ion	Ratio	Lower	Upper
228	100		
226	29.2	0.3	60.3
229	20.3	0.0	49.6

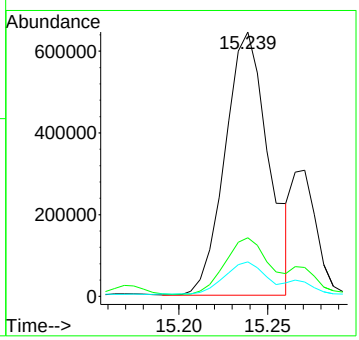


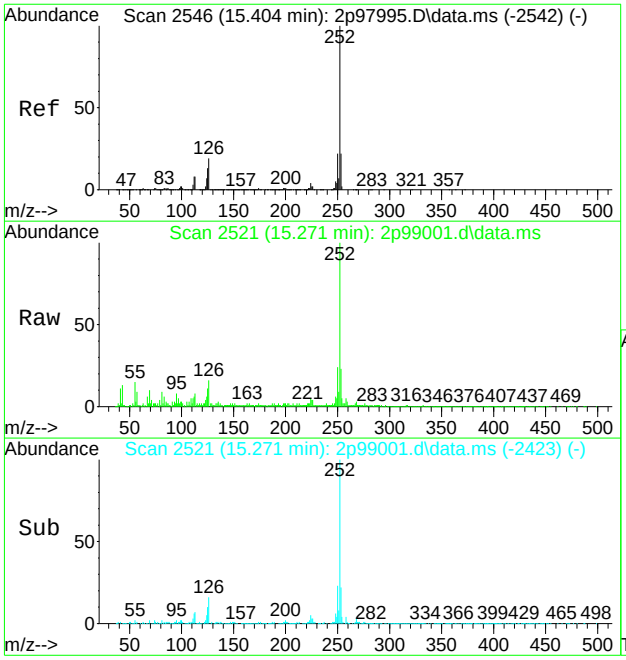


#93
Benzo[b]fluoranthene
Concen: 23.27 ppm
RT: 15.239 min Scan# 2515
Delta R.T. 0.022 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:252 Resp: 1097761

Ion	Ratio	Lower	Upper
252	100		
253	21.1	0.0	51.4
125	12.2	0.0	39.2

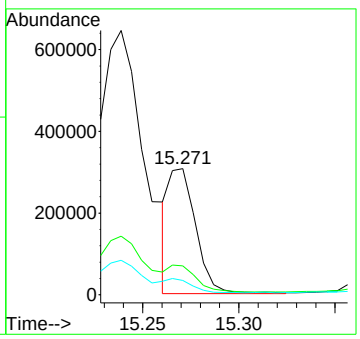


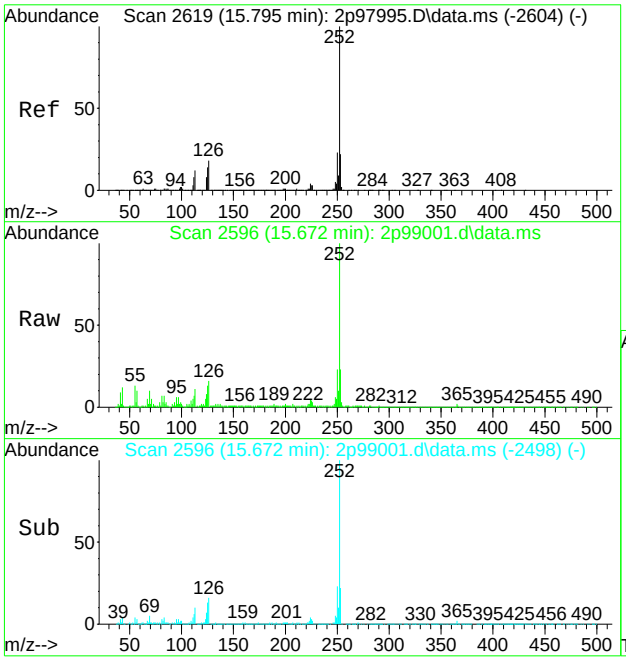


#94
Benzo[k]fluoranthene
Concen: 6.87 ppm
RT: 15.271 min Scan# 2521
Delta R.T. 0.022 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:252 Resp: 299074

Ion	Ratio	Lower	Upper
252	100		
253	20.5	0.0	51.6
125	8.0	0.0	40.9

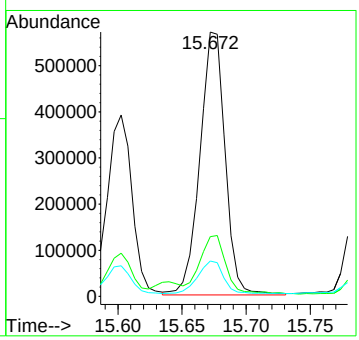


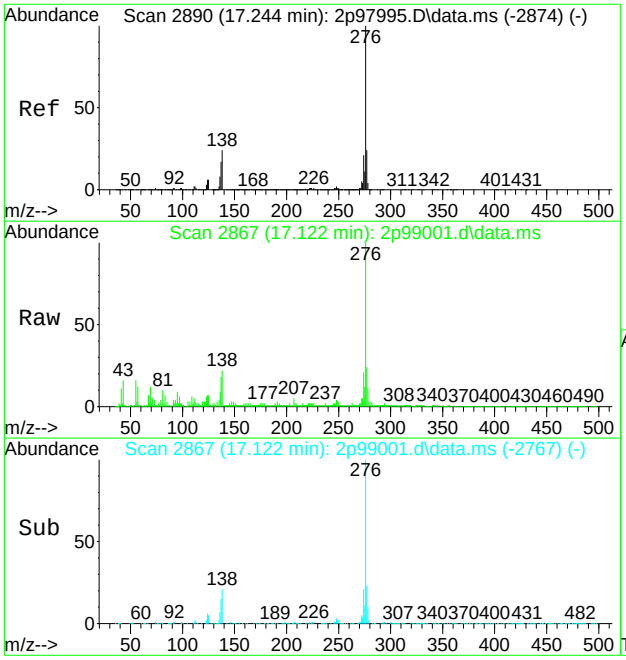


#95
Benzo[a]pyrene
Concen: 19.07 ppm
RT: 15.672 min Scan# 2596
Delta R.T. 0.022 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:252 Resp: 781225

Ion	Ratio	Lower	Upper
252	100		
253	19.6	0.0	51.7
125	12.4	0.0	41.0

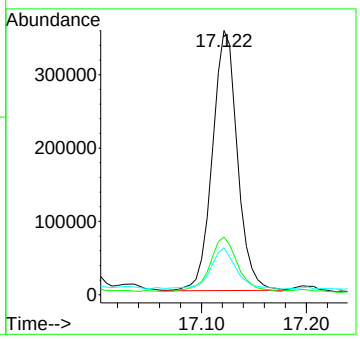


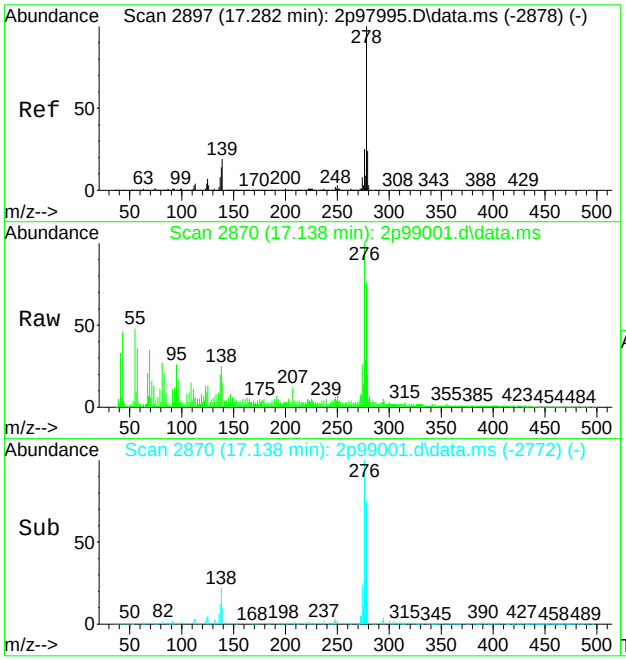


#96
Indeno[1,2,3-cd]pyrene
Concen: 13.35 ppm
RT: 17.122 min Scan# 2867
Delta R.T. 0.032 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:276 Resp: 586570

Ion	Ratio	Lower	Upper
276	100		
138	20.8	0.0	49.6
137	15.7	0.0	44.3

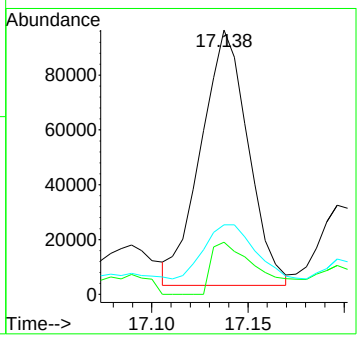


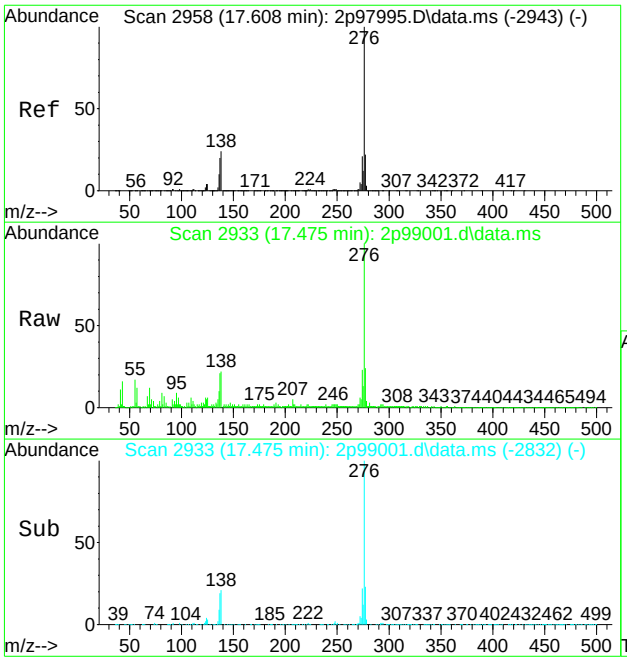


#98
Dibenz[a,h]anthracene
Concen: 3.48 ppm
RT: 17.138 min Scan# 2870
Delta R.T. 0.022 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:278 Resp: 158747

Ion	Ratio	Lower	Upper
278	100		
139	18.5	0.0	45.6
279	21.7	0.0	53.3

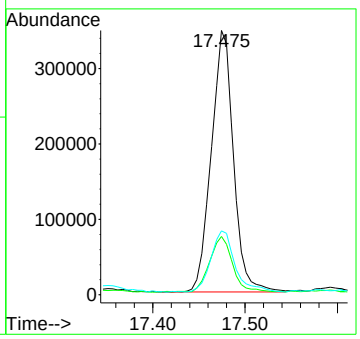




#100
Benzo[g,h,i]perylene
Concen: 13.37 ppm
RT: 17.475 min Scan# 2933
Delta R.T. 0.038 min
Lab File: 2p99001.d
Acq: 15 Jan 2021 10:09 pm

Tgt Ion:276 Resp: 578861

Ion	Ratio	Lower	Upper
276	100		
138	21.2	0.0	51.4
277	23.4	0.0	53.7



LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p99001.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.439	119	122	129	rVB2	85542	113379	1.61%	0.117%
2	2.541	138	141	157	rVB	101741	178555	2.54%	0.184%
3	3.162	251	257	264	rVV	169524	177564	2.52%	0.183%
4	3.215	264	267	285	rVB	1872306	1667609	23.70%	1.721%
5	3.338	285	290	299	rVB3	70083	92624	1.32%	0.096%
6	3.520	320	324	341	rVV	2156922	1942696	27.61%	2.005%
7	3.905	392	396	409	rVB2	69214	139728	1.99%	0.144%
8	3.996	409	413	420	rBV	435213	431180	6.13%	0.445%
9	4.231	453	457	462	rBV	2009134	1820453	25.87%	1.879%
10	4.269	462	464	471	rVV	310583	349035	4.96%	0.360%
11	4.435	491	495	508	rVV	6526772	4108914	58.39%	4.241%
12	4.841	566	571	582	rVV	2477634	1942386	27.60%	2.005%
13	5.419	675	679	687	rBV	6243621	4583049	65.13%	4.730%
14	6.216	824	828	841	rBV4	69852	131724	1.87%	0.136%
15	6.526	879	886	893	rBV	3368439	3003533	42.68%	3.100%
16	7.162	999	1005	1010	rBV	186172	210112	2.99%	0.217%
17	7.350	1030	1040	1045	rBV	5037320	4895821	69.57%	5.053%
18	8.098	1176	1180	1188	rVB2	67236	103729	1.47%	0.107%
19	8.457	1242	1247	1255	rBV	1411770	1684284	23.93%	1.738%
20	8.767	1299	1305	1316	rVB6	56914	130457	1.85%	0.135%
21	8.885	1316	1327	1334	rBV8	40714	114203	1.62%	0.118%
22	9.115	1358	1370	1375	rBV8	116247	292596	4.16%	0.302%
23	9.195	1380	1385	1394	rVB3	65210	131948	1.88%	0.136%
24	9.468	1430	1436	1440	rBV2	3924574	4878141	69.32%	5.035%
25	9.500	1440	1442	1448	rVB	1335026	1295690	18.41%	1.337%
26	9.580	1448	1457	1462	rBV	411816	528645	7.51%	0.546%
27	9.644	1467	1469	1476	rVV3	47547	92641	1.32%	0.096%
28	9.708	1476	1481	1485	rVV3	128977	168890	2.40%	0.174%
29	9.874	1506	1512	1517	rBV	141822	181564	2.58%	0.187%
30	9.986	1530	1533	1544	rVB6	57040	126160	1.79%	0.130%
31	10.115	1552	1557	1564	rVB7	42433	92937	1.32%	0.096%
32	10.254	1579	1583	1587	rBV	255304	300777	4.27%	0.310%
33	10.297	1587	1591	1597	rVV	315083	369162	5.25%	0.381%
34	10.372	1601	1605	1608	rBV	131825	147100	2.09%	0.152%
35	10.409	1608	1612	1616	rVV2	286714	424022	6.03%	0.438%
36	10.457	1618	1621	1630	rVB	196883	241620	3.43%	0.249%
37	10.735	1667	1673	1677	rVV	191270	270615	3.85%	0.279%
38	10.773	1677	1680	1691	rVB3	185789	265538	3.77%	0.274%
39	10.976	1712	1718	1723	rBV5	42253	104753	1.49%	0.108%
40	11.131	1741	1747	1751	rBV	189276	296060	4.21%	0.306%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

41	11.174	1751	1755	1761	rBV4	74102	141217	2.01%	0.146%
42	11.243	1761	1768	1779	rVB3	213617	517763	7.36%	0.534%
43	11.356	1779	1789	1795	rBV	3499626	4325977	61.47%	4.465%
44	11.425	1796	1802	1805	rVB2	60955	93780	1.33%	0.097%
45	11.484	1805	1813	1824	rBV5	158041	430044	6.11%	0.444%
46	11.564	1824	1828	1834	rBV2	126805	211746	3.01%	0.219%
47	11.693	1842	1852	1859	rVB	3517049	4424814	62.88%	4.567%
48	11.805	1868	1873	1878	rVB2	144282	202671	2.88%	0.209%
49	11.923	1889	1895	1899	rBV2	456947	668527	9.50%	0.690%
50	12.019	1907	1913	1921	rBV	2578612	3214517	45.68%	3.318%
51	12.083	1921	1925	1931	rVB3	179252	309197	4.39%	0.319%
52	12.137	1931	1935	1942	rBV4	87953	135090	1.92%	0.139%
53	12.249	1944	1956	1963	rBV3	264495	687567	9.77%	0.710%
54	12.356	1971	1976	1980	rBV2	166236	204723	2.91%	0.211%
55	12.404	1980	1985	1988	rBV	246575	351497	4.99%	0.363%
56	12.543	2006	2011	2015	rBV3	209631	279613	3.97%	0.289%
57	12.586	2015	2019	2023	rVB2	208287	269660	3.83%	0.278%
58	12.736	2044	2047	2052	rVB5	68317	113944	1.62%	0.118%
59	12.934	2081	2084	2092	rVB4	127360	247451	3.52%	0.255%
60	13.067	2105	2109	2114	rVB	386191	479447	6.81%	0.495%
61	13.222	2132	2138	2141	rBV	257300	397619	5.65%	0.410%
62	13.265	2143	2146	2149	rVV	218953	333465	4.74%	0.344%
63	13.292	2149	2151	2157	rVV3	245713	332003	4.72%	0.343%
64	13.340	2157	2160	2166	rVB3	182246	263702	3.75%	0.272%
65	13.410	2168	2173	2178	rVB	322176	429175	6.10%	0.443%
66	13.495	2185	2189	2194	rVB	147441	210477	2.99%	0.217%
67	13.640	2205	2216	2219	rBV2	3847429	7037192	100.00%	7.263%
68	13.672	2219	2222	2230	rVB2	1876884	2447379	34.78%	2.526%
69	13.736	2231	2234	2238	rVB3	81210	98038	1.39%	0.101%
70	13.784	2239	2243	2248	rVB	252890	313506	4.45%	0.324%
71	13.843	2249	2254	2256	rBV3	151107	230286	3.27%	0.238%
72	13.960	2273	2276	2284	rVB3	149458	291517	4.14%	0.301%
73	14.041	2286	2291	2296	rVV3	171300	265769	3.78%	0.274%
74	14.271	2328	2334	2339	rBV	306158	473259	6.73%	0.488%
75	14.324	2340	2344	2347	rVB	151356	183989	2.61%	0.190%
76	14.362	2348	2351	2354	rBV4	89394	111626	1.59%	0.115%
77	14.527	2379	2382	2386	rVB5	104315	128111	1.82%	0.132%
78	14.608	2394	2397	2404	rVB5	101949	156447	2.22%	0.161%
79	14.677	2406	2410	2412	rBV3	204050	268361	3.81%	0.277%
80	14.790	2428	2431	2435	rBV3	96033	116235	1.65%	0.120%
81	15.014	2469	2473	2479	rBV2	143249	308551	4.38%	0.318%
82	15.239	2508	2515	2519	rBV	1844330	3414083	48.51%	3.524%
83	15.346	2530	2535	2537	rBV3	277431	395874	5.63%	0.409%
84	15.373	2538	2540	2545	rVB	305294	316383	4.50%	0.327%
85	15.608	2577	2584	2590	rBV2	1400521	2548030	36.21%	2.630%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

86	15.672	2590	2596	2604	rVB	1738496	2547695	36.20%	2.630%
87	15.758	2605	2612	2616	rBV2	3122882	4363045	62.00%	4.503%
88	16.116	2677	2679	2683	rBV4	133387	161432	2.29%	0.167%
89	16.260	2701	2706	2711	rBV2	421849	680548	9.67%	0.702%
90	16.464	2739	2744	2746	rBV3	423327	620594	8.82%	0.641%
91	16.496	2746	2750	2756	rVB	846617	1201804	17.08%	1.240%
92	16.565	2759	2763	2771	rVV6	163567	343594	4.88%	0.355%
93	16.833	2809	2813	2818	rVB4	355488	494549	7.03%	0.510%
94	16.982	2837	2841	2846	rVB3	252717	428458	6.09%	0.442%
95	17.122	2862	2867	2879	rVB2	973018	2245490	31.91%	2.318%
96	17.475	2927	2933	2942	rBV	898761	1471937	20.92%	1.519%
97	17.672	2965	2970	2989	rVB7	711984	2286188	32.49%	2.360%
98	18.020	3031	3035	3045	rVB8	365594	817745	11.62%	0.844%
99	18.448	3109	3115	3122	rVB4	405911	823638	11.70%	0.850%
100	19.154	3240	3247	3260	rVB2	771163	1988113	28.25%	2.052%

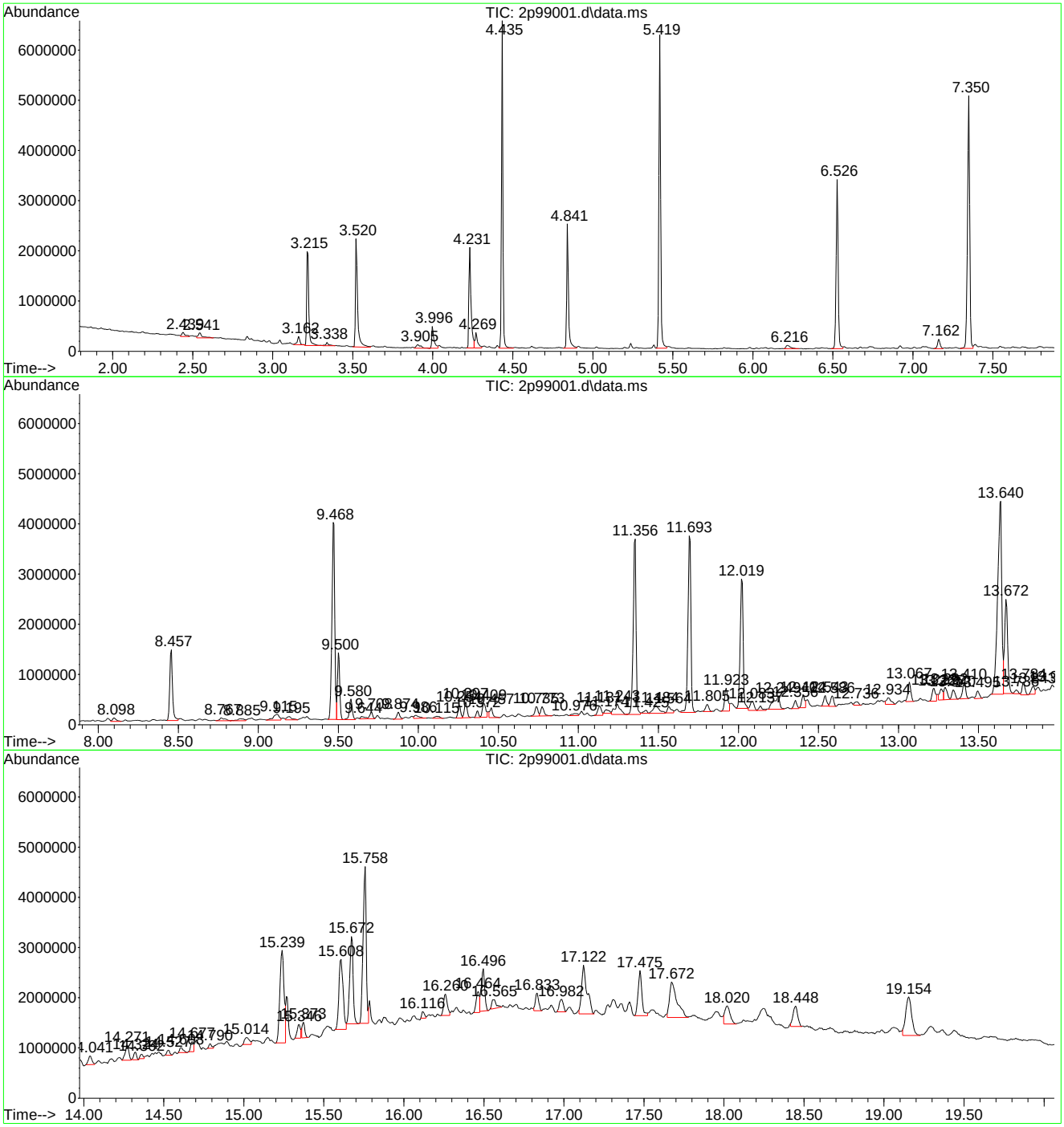
Sum of corrected areas: 96885046

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

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Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

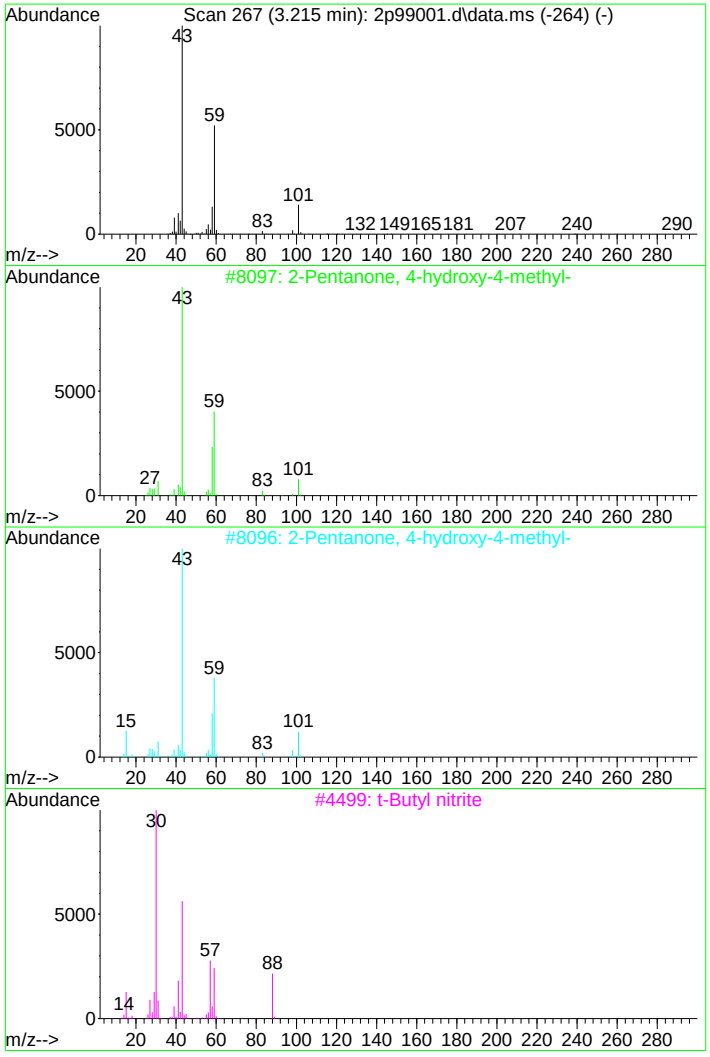
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

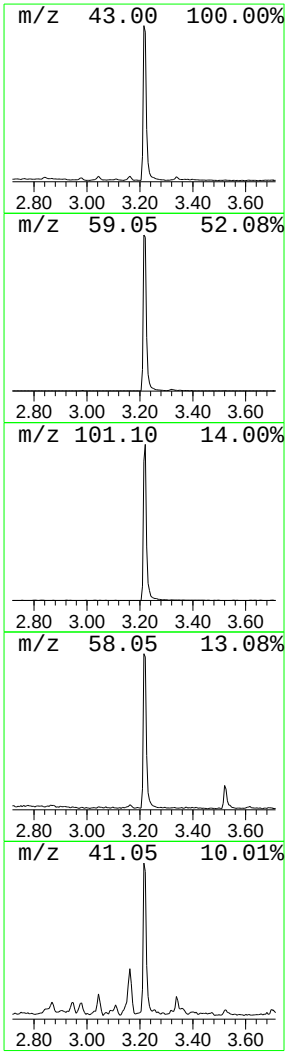
****

Peak Number 1 System artifact/aldol-conde... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.215	16.23 ppm	1667610	1,4-Dichlorobenzene-d4a	4.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
3	t-Butyl nitrite	103	C4H9NO2	000540-80-7	39
4	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
5	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	23





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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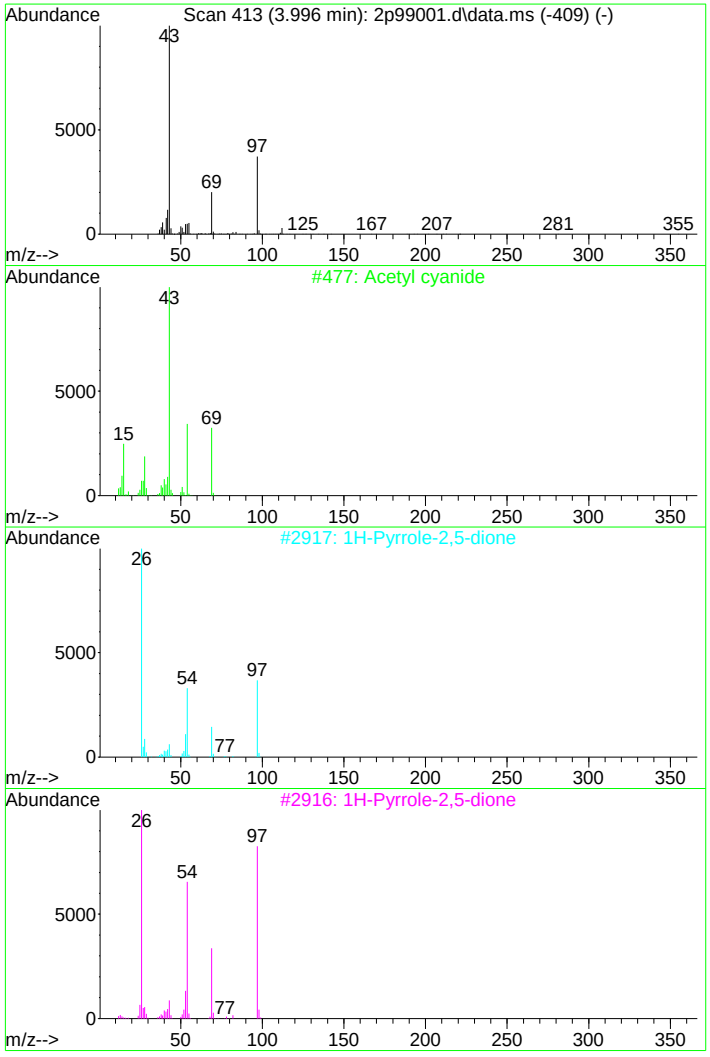
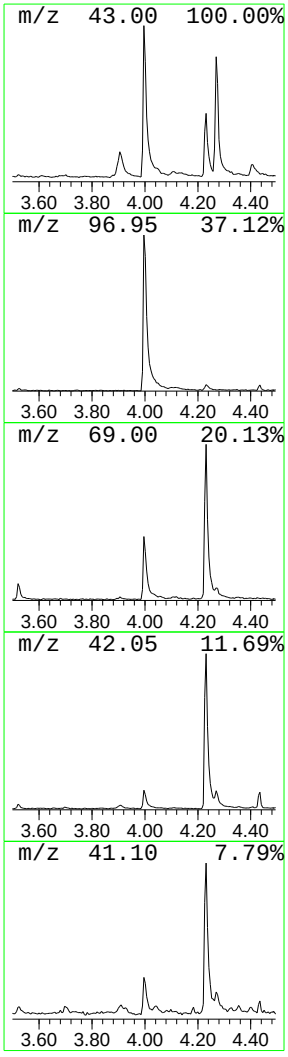
Peak Number 2 Unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.996	4.20 ppm	431180	1,4-Dichlorobenzene-d4a	4.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetyl cyanide	69	C3H3NO	000631-57-2	9
2	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	9
3	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	9
4	4-Penten-2-one, 4-methyl-	98	C6H10O	003744-02-3	7
5	2-Propyn-1-ol, acetate	98	C5H6O2	000627-09-8	5





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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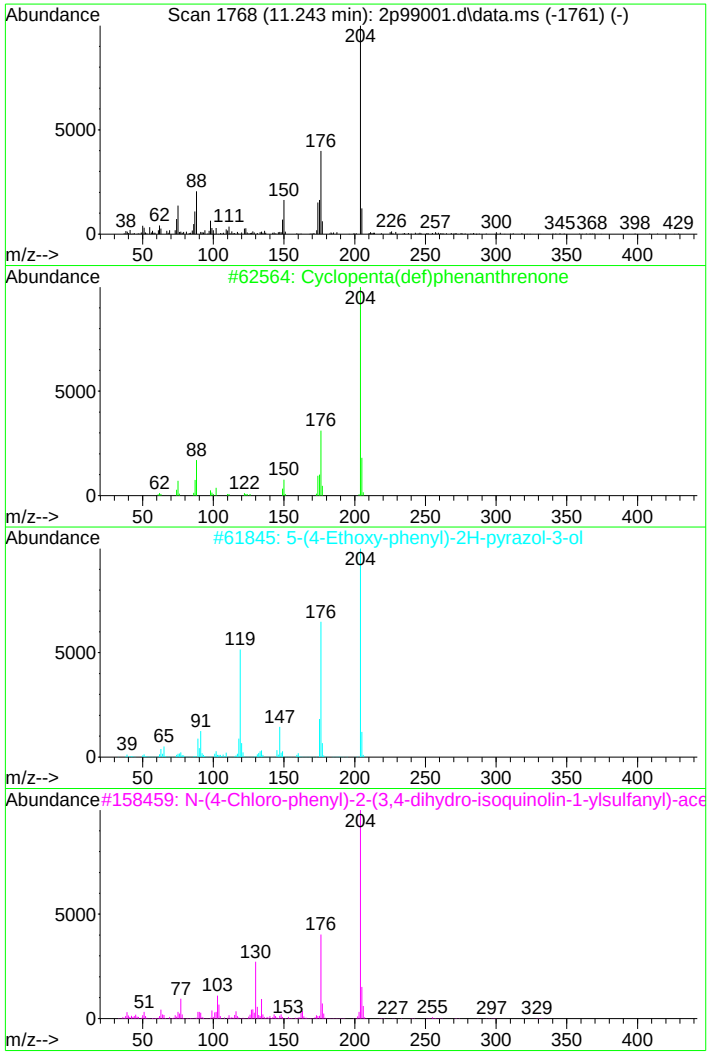
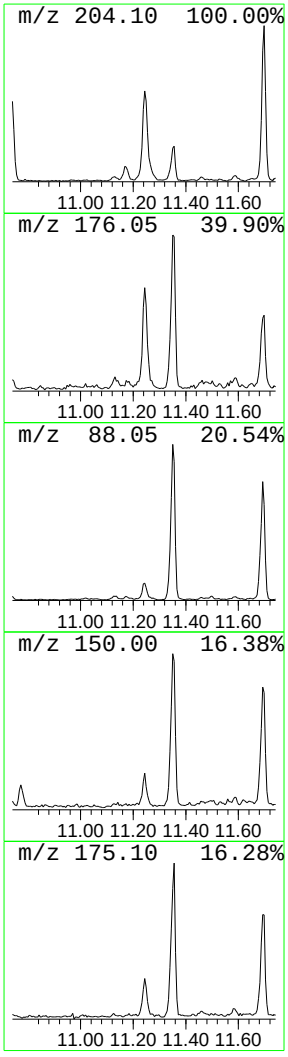
Peak Number 3 Cyclopentaphenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.243	4.25 ppm	517763	Phenanthrene-d10b	9.468

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	91
2	5-(4-Ethoxy-phenyl)-2H-pyrazol-3-ol	204	C11H12N2O2	1000278-26-8	53
3	N-(4-Chloro-phenyl)-2-(3,4-dihyd...	330	C17H15ClN2OS	1000296-34-3	40
4	Propanedinitrile, 2,2'-(2,5-cycl...	204	C12H4N4	001518-16-7	38
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	38





Library Search Compound Report

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Data File : 2p99001.d
Acq On    : 15 Jan 2021  10:09 pm
Operator  : hennys
Sample    : jd18939-3
Misc      : op31540,e2p4412,31.6,,,1,1
ALS Vial  : 21   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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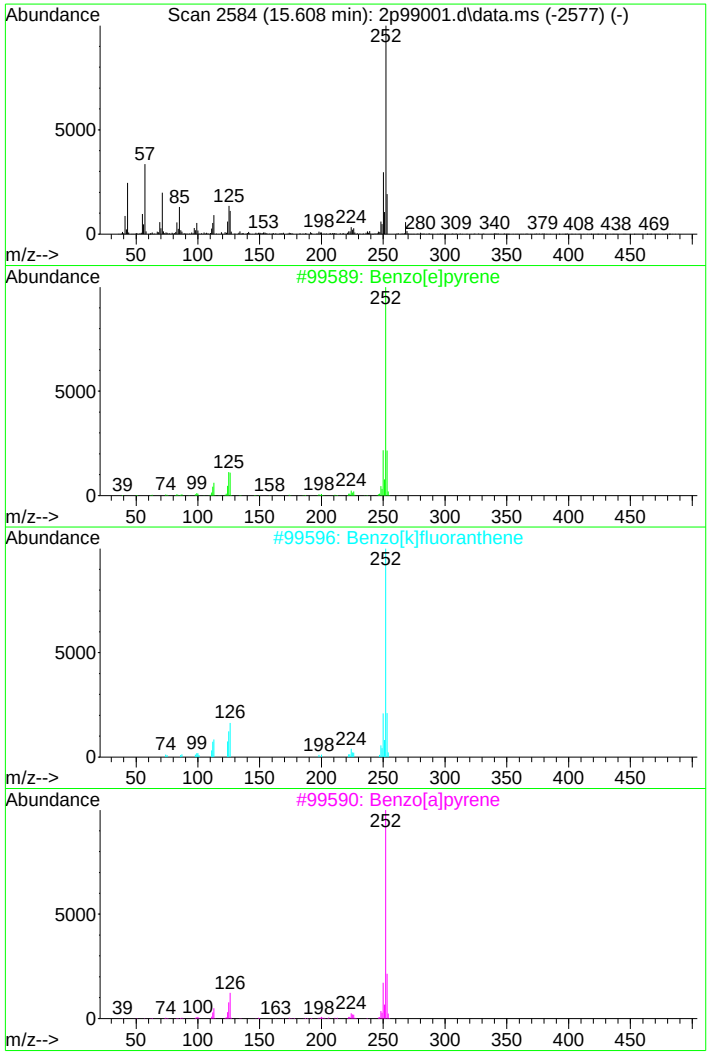
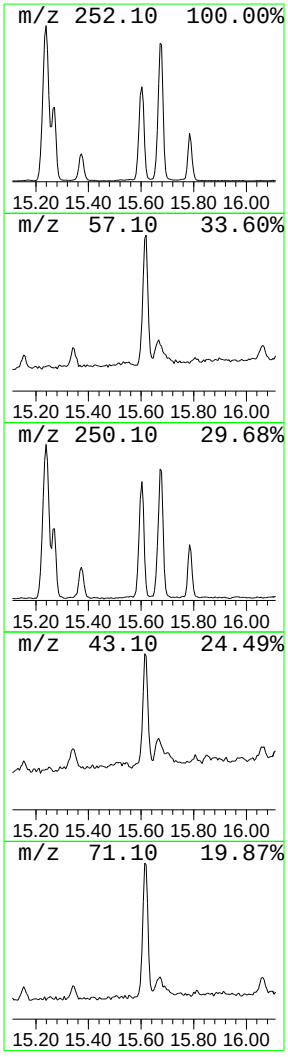
Peak Number 4 Unknown PAH substance Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.608	23.36 ppm	2548030	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benzo[a]pyrene	252	C20H12	000050-32-8	95
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

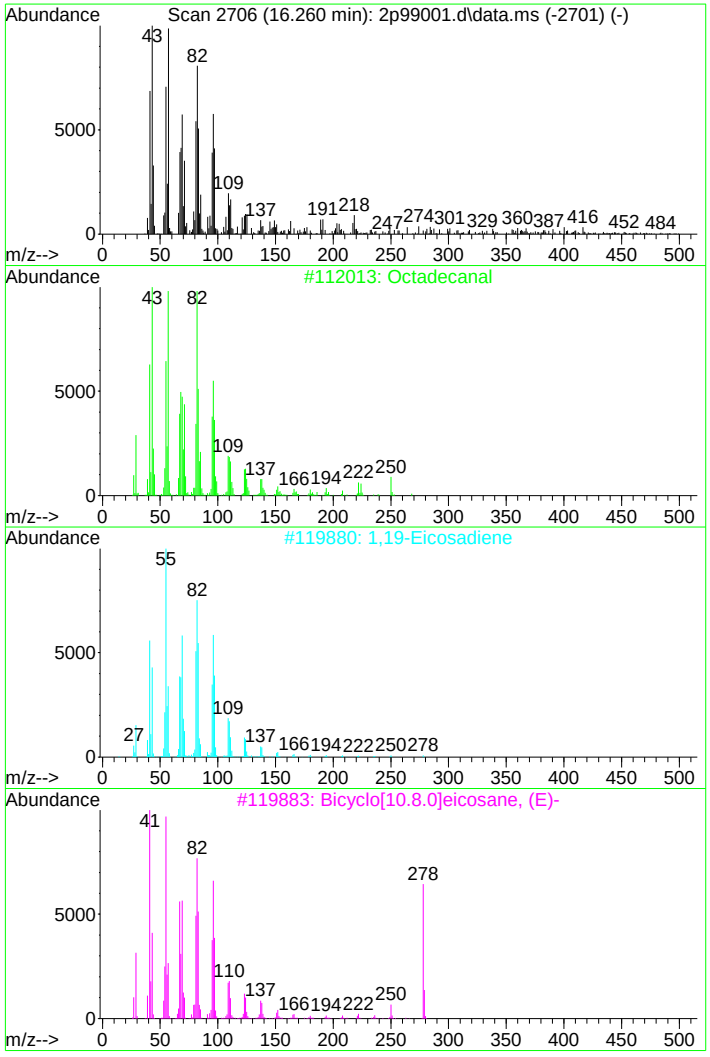
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

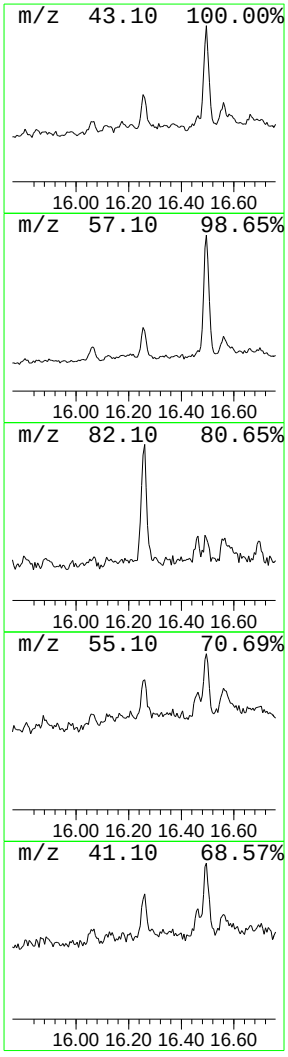
****

Peak Number 5 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.260	6.24 ppm	680548	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanal	268	C18H36O	000638-66-4	91
2	1,19-Eicosadiene	278	C20H38	014811-95-1	91
3	Bicyclo[10.8.0]eicosane, (E)-	278	C20H38	1000155-85-0	90
4	Carbonic acid, isobutyl undec-10...	270	C16H30O3	1000314-60-8	90
5	Octadecanal	268	C18H36O	000638-66-4	87





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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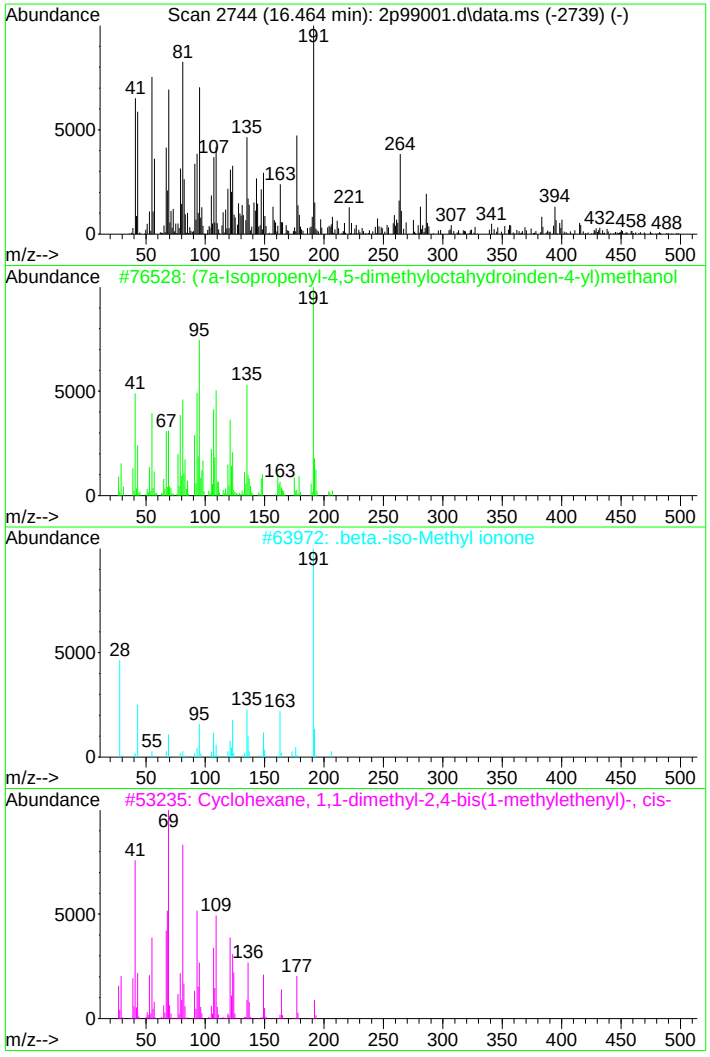
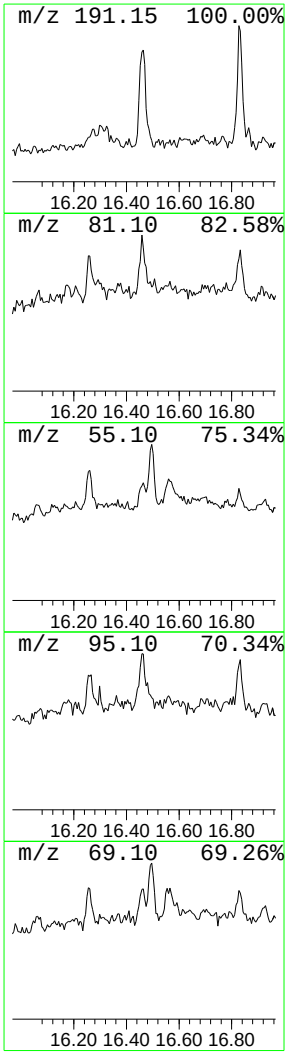
Peak Number 6 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.464	5.69 ppm	620594	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(7a-Isopropenyl-4,5-dimethylocta...	222	C15H26O	1000187-02-9	43
2	.beta.-iso-Methyl ionone	206	C14H22O	1000285-40-2	42
3	Cyclohexane, 1,1-dimethyl-2,4-bi...	192	C14H24	062337-98-8	30
4	Cyclohexane, 3,4-bis(1-methyleth...	192	C14H24	061142-74-3	30
5	Anthracene, 9-(4-methoxybutyl)-	264	C19H20O	144000-76-0	20





Library Search Compound Report

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Data File : 2p99001.d
Acq On    : 15 Jan 2021  10:09 pm
Operator  : hennys
Sample    : jd18939-3
Misc      : op31540,e2p4412,31.6,,,1,1
ALS Vial  : 21   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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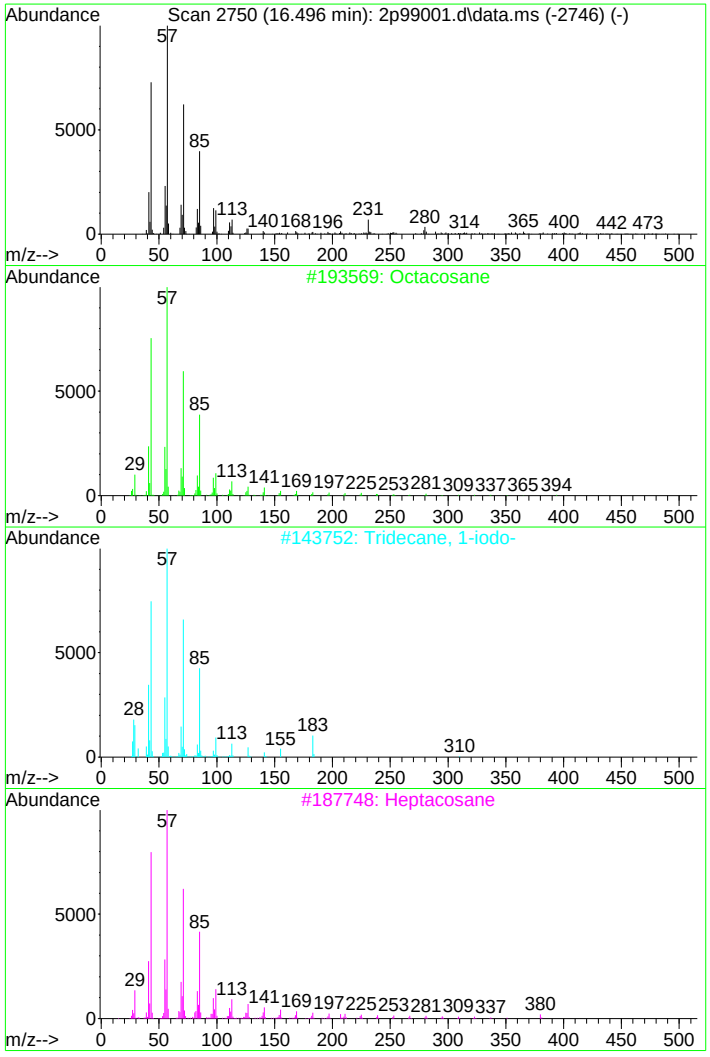
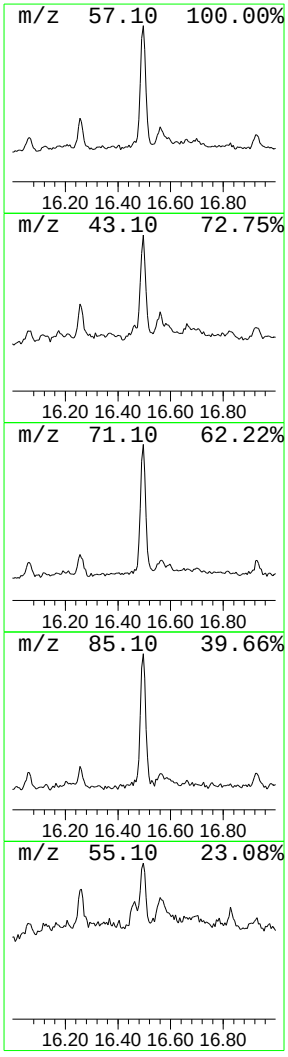
Peak Number 7 Alkane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.496	11.02 ppm	1201800	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	93
2	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	91
3	Heptacosane	380	C27H56	000593-49-7	90
4	Tetratetracontane	619	C44H90	007098-22-8	87
5	Hexacosane, 9-octyl-	479	C34H70	055429-83-9	87





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

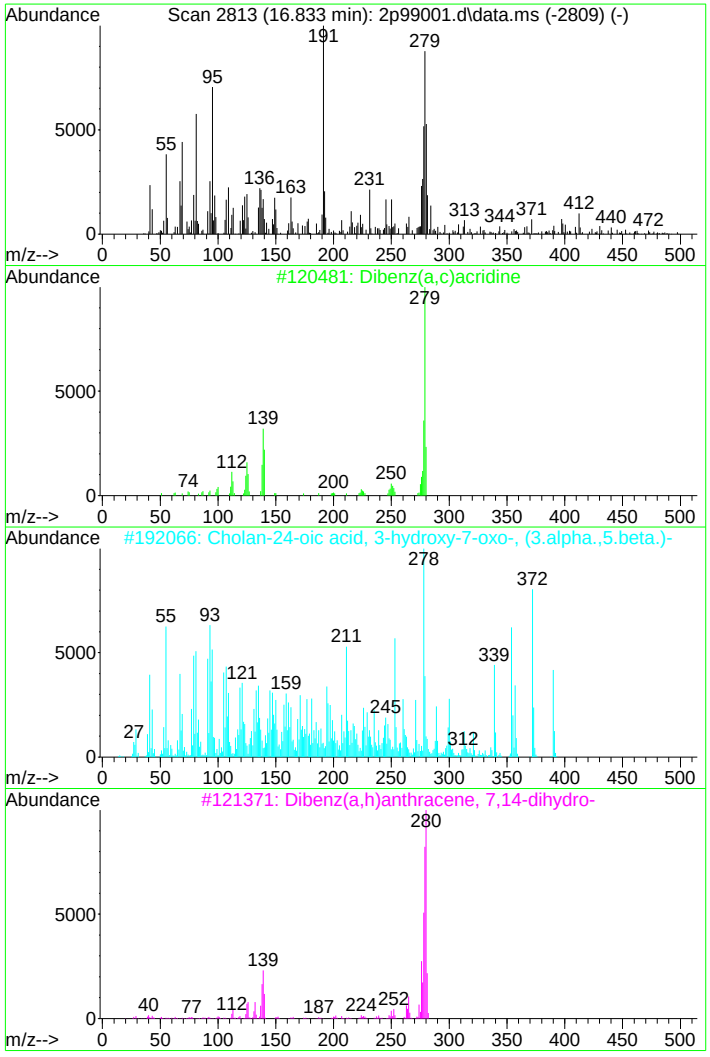
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

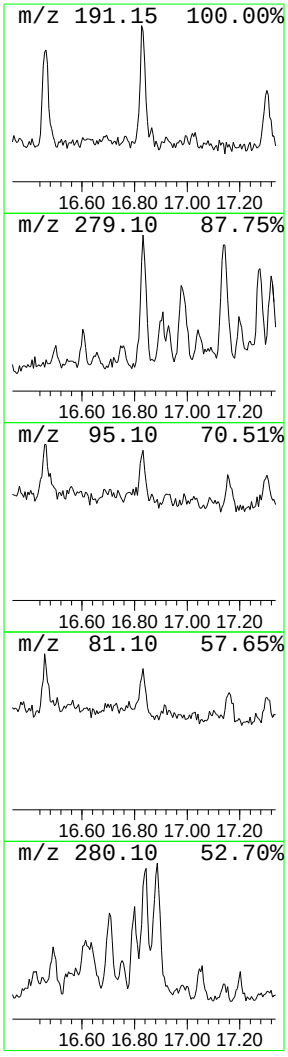
****

Peak Number 8 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.833	4.53 ppm	494549	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz(a,c)acridine	279	C21H13N	000215-62-3	30
2	Cholan-24-oic acid, 3-hydroxy-7-...	390	C24H38O4	004651-67-6	25
3	Dibenz(a,h)anthracene, 7,14-dihy...	280	C22H16	057816-08-7	25
4	Cinnamic acid, 3,4-dimethoxy-, t...	280	C14H20O4Si	027750-71-6	22
5	Dibenz(a,h)acridine	279	C21H13N	000226-36-8	20





Library Search Compound Report

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Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
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Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

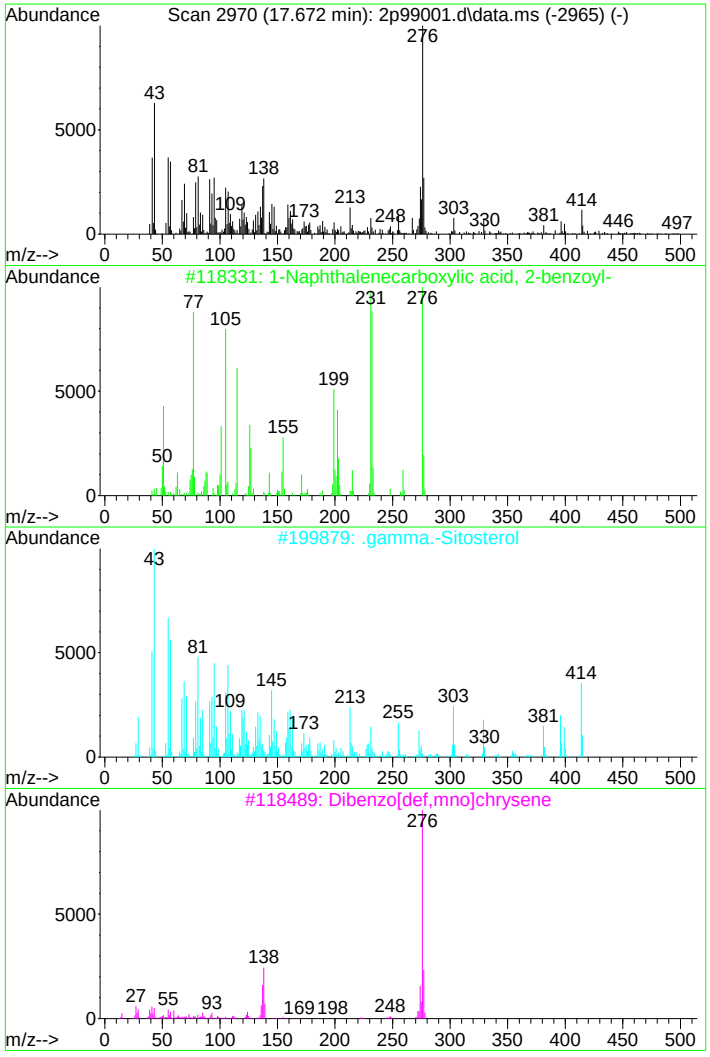
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

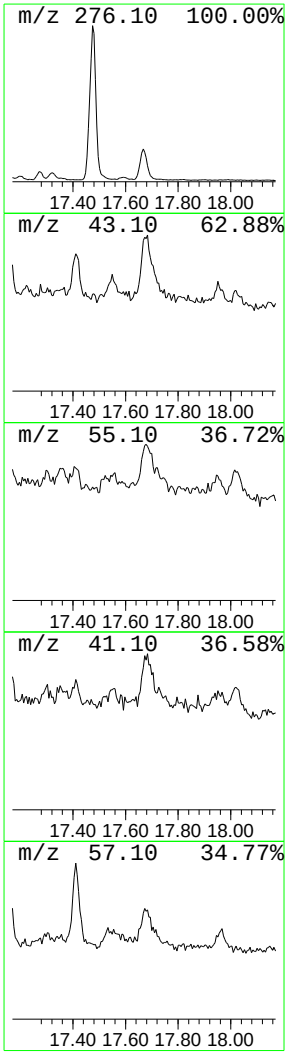
****

Peak Number 9 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.672	20.96 ppm	2286190	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenecarboxylic acid, 2-...	276	C18H12O3	038119-11-8	94
2	.gamma.-Sitosterol	414	C29H50O	000083-47-6	91
3	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	91
4	Benzo[ghi]perylene	276	C22H12	000191-24-2	64
5	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	64





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

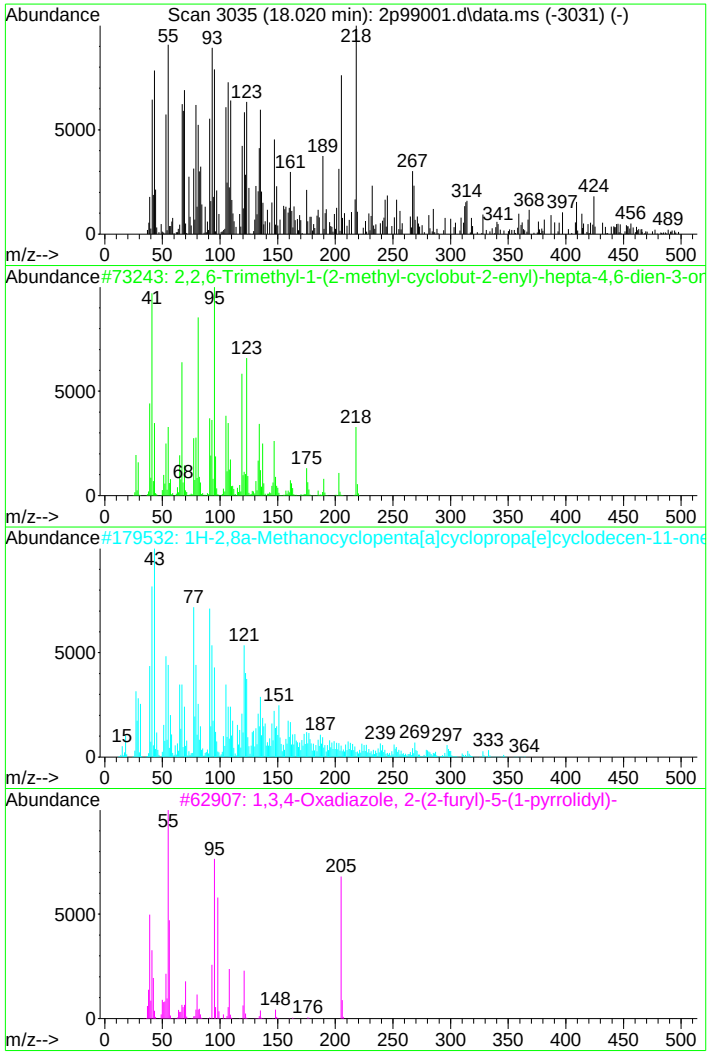
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

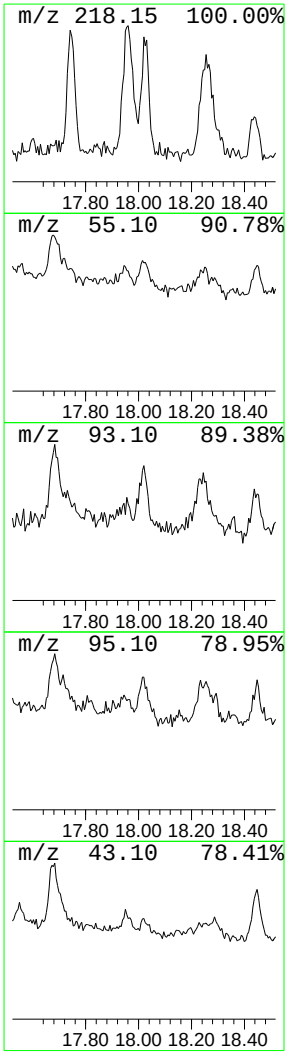
****

Peak Number 10 Unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.020	7.50 ppm	817745	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2,6-Trimethyl-1-(2-methyl-cycl...	218	C15H22O	1000188-72-8	42
2	1H-2,8a-Methanocyclopenta[a]cycl...	364	C20H28O6	052557-29-6	37
3	1,3,4-Oxadiazole, 2-(2-furyl)-5-...	205	C10H11N3O2	284674-14-2	35
4	4,4,6a,6b,8a,11,11,14b-Octamethy...	424	C30H48O	1000194-62-4	22
5	Cyclopropanecarboxamide, 2,2-dib...	337	C11H17Br2NO	1000263-98-9	22





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

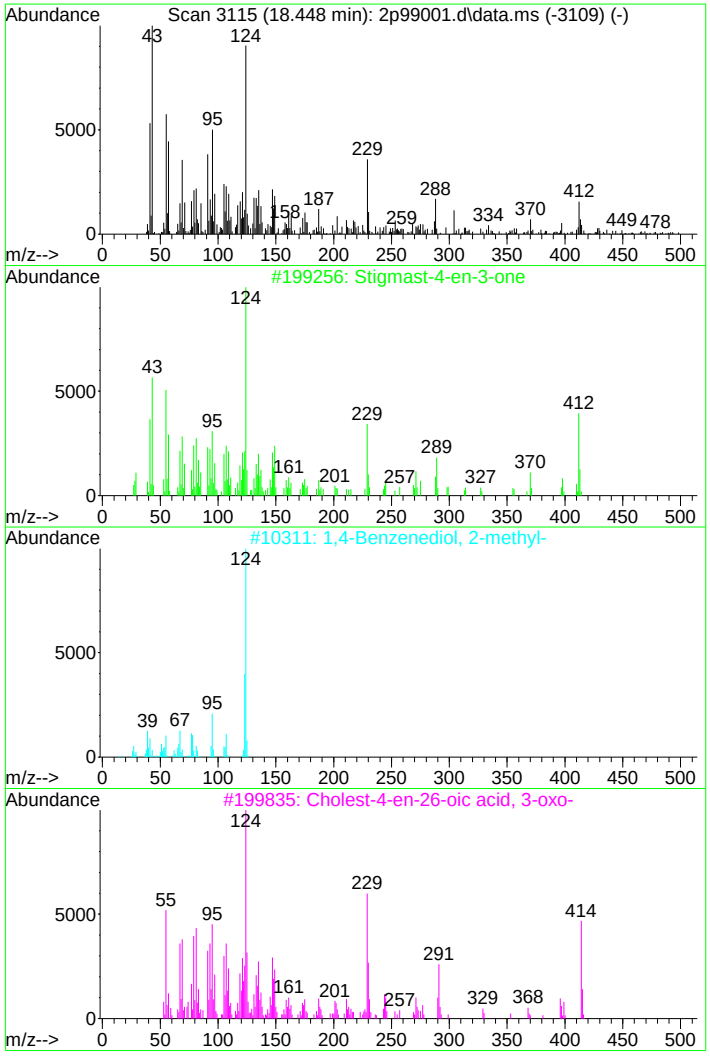
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

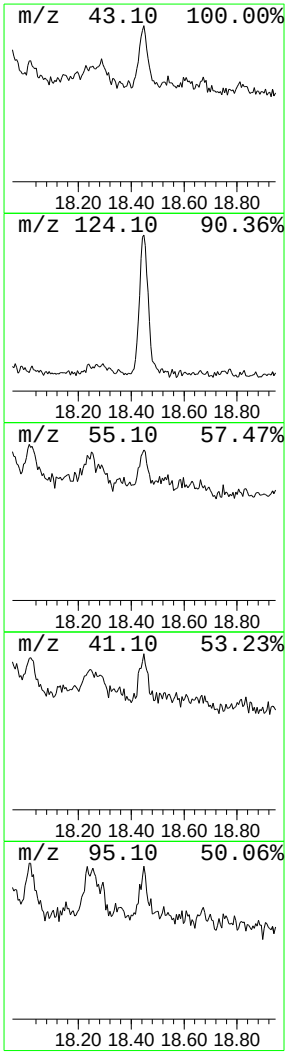
****

Peak Number 11 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.448	7.55 ppm	823638	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	72
2	1,4-Benzenediol, 2-methyl-	124	C7H8O2	000095-71-6	55
3	Cholest-4-en-26-oic acid, 3-oxo-	414	C27H42O3	023017-97-2	53
4	Testosterone	288	C19H28O2	000058-22-0	50
5	Testosterone	288	C19H28O2	000058-22-0	49





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

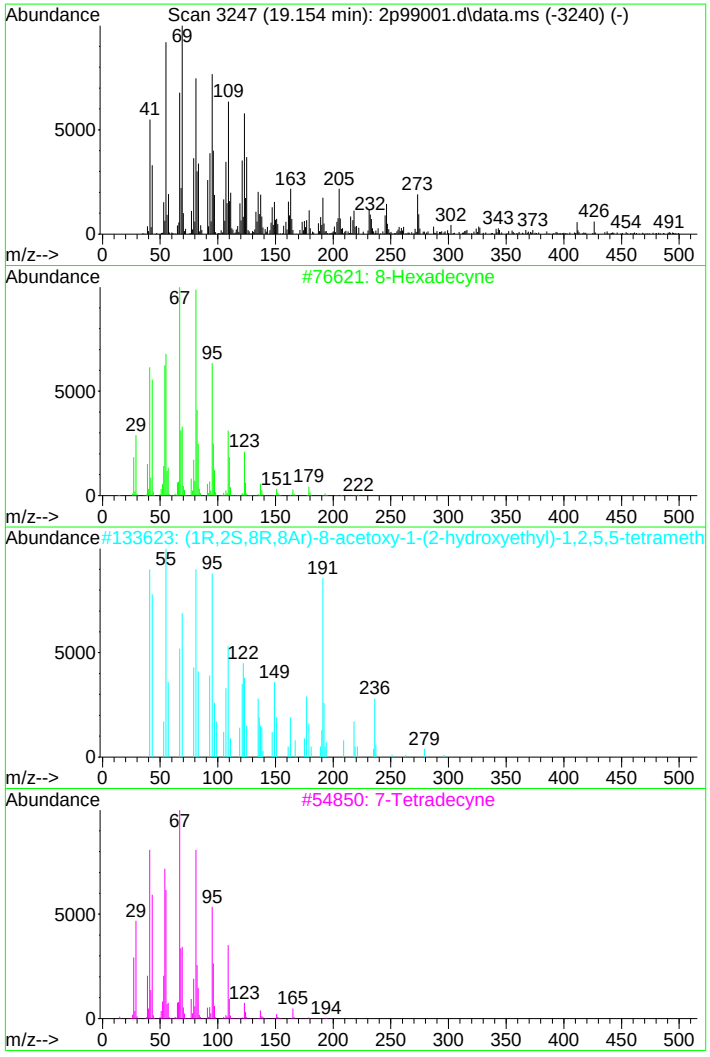
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

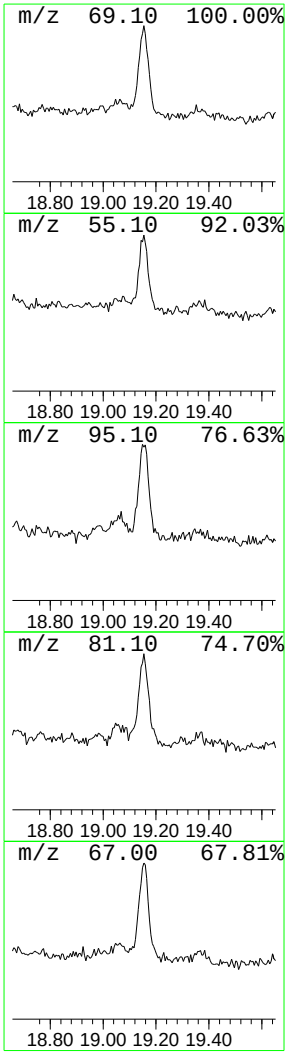
****

Peak Number 12 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.154	18.23 ppm	1988110	Perylene-d12	15.758

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8-Hexadecyne	222	C16H30	019781-86-3	86
2	(1R,2S,8R,8Ar)-8-acetoxy-1-(2-hy...	296	C18H32O3	1000298-98-4	70
3	7-Tetradecyne	194	C14H26	035216-11-6	64
4	7-Tetradecyne	194	C14H26	035216-11-6	58
5	7-Tetradecyne	194	C14H26	035216-11-6	58





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p99001.d
Acq On : 15 Jan 2021 10:09 pm
Operator : hennys
Sample : jd18939-3
Misc : op31540,e2p4412,31.6,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact...	3.215	16.2	ppm	1667610	2	4.435	4108910	40.0
Unknown	3.996	4.2	ppm	431180	2	4.435	4108910	40.0
Cyclopentaphena...	11.243	4.3	ppm	517763	11	9.468	4878140	40.0
Unknown PAH sub...	15.608	23.4	ppm	2548030	15	15.758	4363050	40.0
Unknown	16.260	6.2	ppm	680548	15	15.758	4363050	40.0
Unknown	16.464	5.7	ppm	620594	15	15.758	4363050	40.0
Alkane	16.496	11.0	ppm	1201800	15	15.758	4363050	40.0
Unknown	16.833	4.5	ppm	494549	15	15.758	4363050	40.0
Unknown	17.672	21.0	ppm	2286190	15	15.758	4363050	40.0
Unknown	18.020	7.5	ppm	817745	15	15.758	4363050	40.0
Unknown	18.448	7.5	ppm	823638	15	15.758	4363050	40.0
Unknown	19.154	18.2	ppm	1988110	15	15.758	4363050	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1 Inst : MS2P
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 03:21:22 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

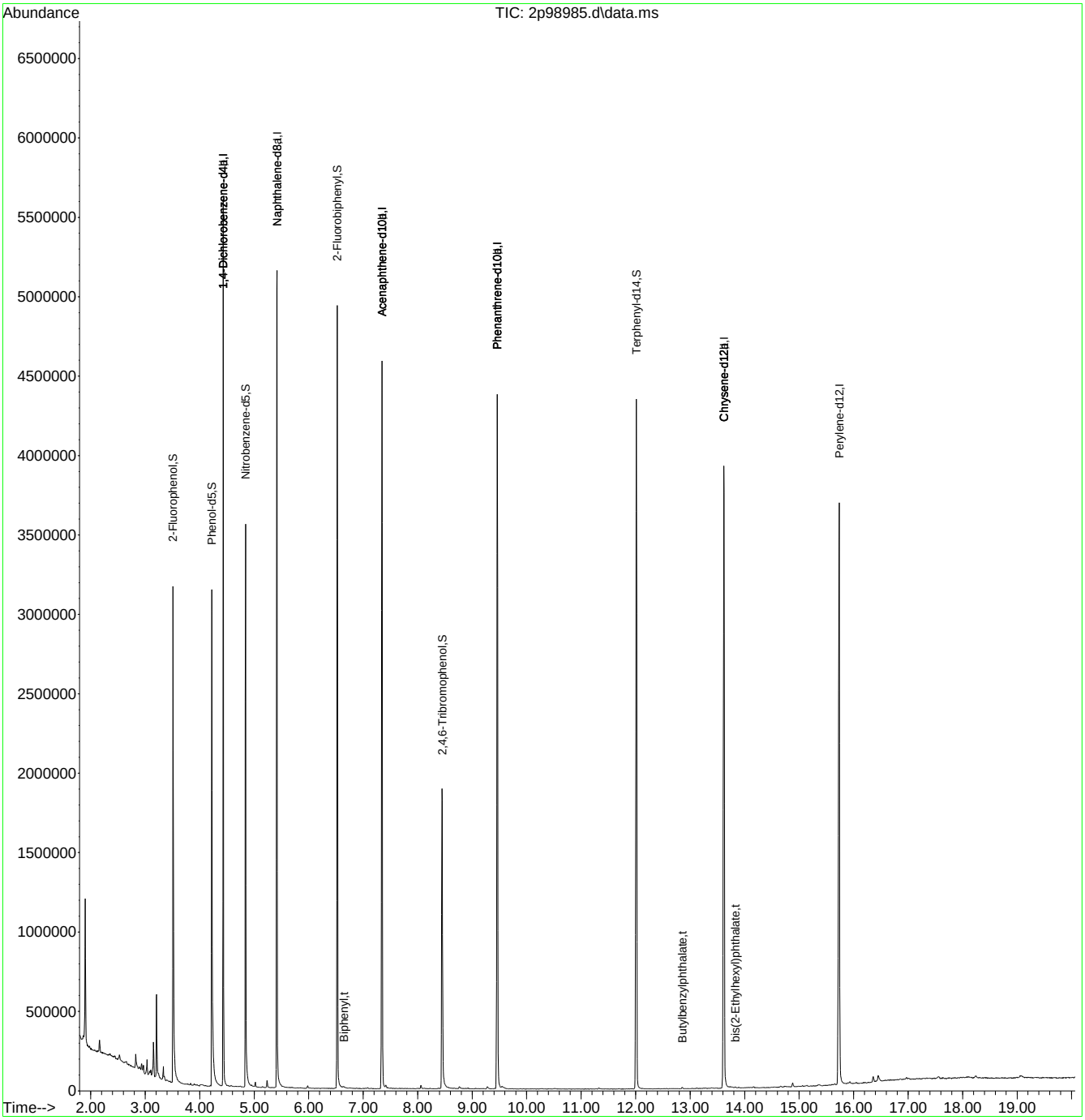
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.429	152	459581	40.00	ppm	0.00
24) Naphthalene-d8	5.418	136	1663653	40.00	ppm	0.00
47) Acenaphthene-d10	7.344	164	836454	40.00	ppm	0.00
69) Phenanthrene-d10	9.462	188	1586317	40.00	ppm	0.00
83) Chrysene-d12	13.618	240	1674443	40.00	ppm	0.00
91) Perylene-d12	15.736	264	1720024	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.429	152	459581	40.00	ppm	0.00
103) Naphthalene-d8a	5.418	136	1663653	40.00	ppm	0.00
105) Acenaphthene-d10a	7.344	164	836454	40.00	ppm	0.00
107) Chrysene-d12a	13.618	240	1674443	40.00	ppm	0.00
109) Phenanthrene-d10a	9.462	188	1586317	40.00	ppm	0.00
112) 1,4-Dichlorobenzene-d4b	4.429	152	459581	40.00	ppm	0.00
115) Acenaphthene-d10b	7.344	164	836454	40.00	ppm	0.00
117) Phenanthrene-d10b	9.462	188	1586317	40.00	ppm	0.00
120) Chrysene-d12b	13.618	240	1674443	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.509	112	552254	35.26	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 70.52%#			
8) Phenol-d5	4.220	99	699559	35.27	ppm	0.00
Spiked Amount 50.000	Range 10 - 59		Recovery = 70.54%#			
25) Nitrobenzene-d5	4.841	82	835923	44.76	ppm	0.00
Spiked Amount 50.000	Range 19 - 61		Recovery = 89.52%#			
51) 2-Fluorobiphenyl	6.526	172	1172124	42.60	ppm	0.00
Spiked Amount 50.000	Range 21 - 58		Recovery = 85.20%#			
73) 2,4,6-Tribromophenol	8.451	330	226553	39.49	ppm	0.00
Spiked Amount 50.000	Range 12 - 68		Recovery = 78.98%#			
85) Terphenyl-d14	12.013	244	1638211	42.02	ppm	0.00
Spiked Amount 50.000	Range 16 - 65		Recovery = 84.04%#			
118) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
119) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000	Range 15 - 64		Recovery = 0.00%#			
Target Compounds						Qvalue
53) Biphenyl	6.643	154	2570	0.08	ppm	85
86) Butylbenzylphthalate	12.853	149	2601	0.11	ppm	77
90) bis(2-Ethylhexyl)phtha...	13.827	149	1902	0.06	ppm	90

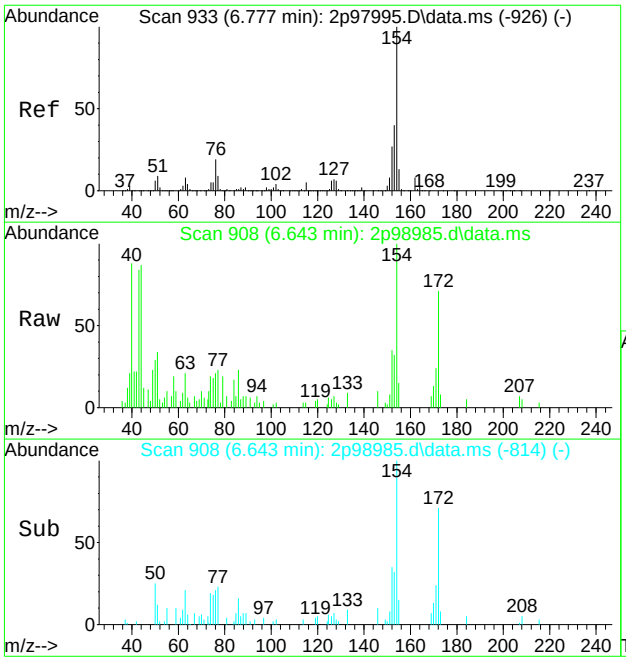
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1 Inst : MS2P
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Results File: M2P4365.RES
Quant Time: Jan 18 03:21:22 2021
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jan 18 03:08:11 2021
Response via : Initial Calibration

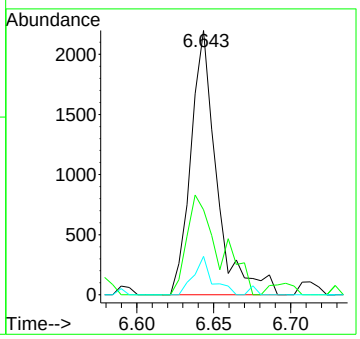


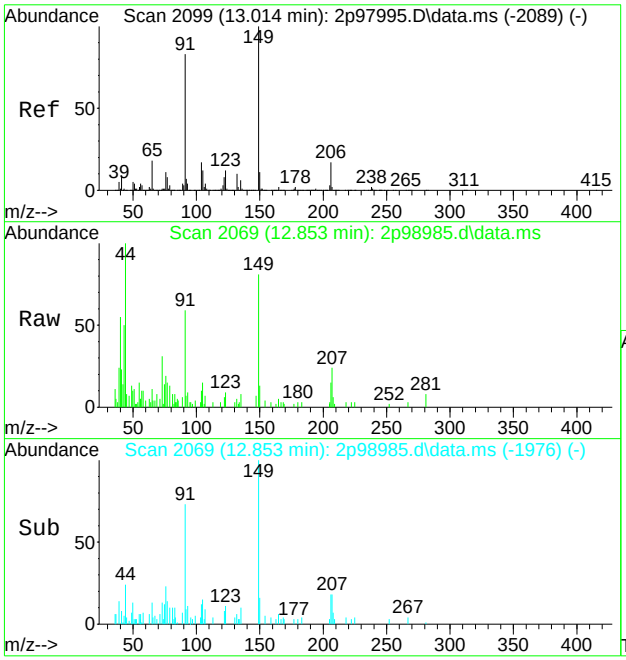


#53
Biphenyl
Concen: 0.08 ppm
RT: 6.643 min Scan# 908
Delta R.T. 0.005 min
Lab File: 2p98985.d
Acq: 15 Jan 2021 2:46 pm

Tgt Ion:154 Resp: 2570

Ion	Ratio	Lower	Upper
154	100		
153	29.9	11.2	71.2
155	14.5	0.0	42.9

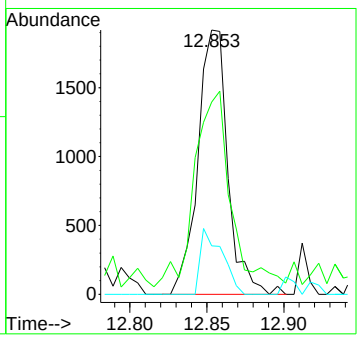


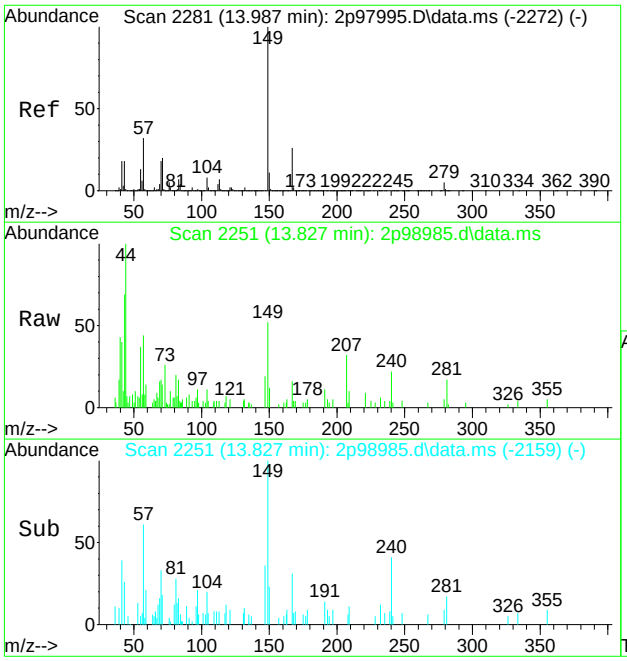


#86
Butylbenzylphthalate
Concen: 0.11 ppm
RT: 12.853 min Scan# 2069
Delta R.T. 0.000 min
Lab File: 2p98985.d
Acq: 15 Jan 2021 2:46 pm

Tgt Ion:149 Resp: 2601

Ion	Ratio	Lower	Upper
149	100		
91	67.5	62.4	122.4
206	15.0	0.0	46.8

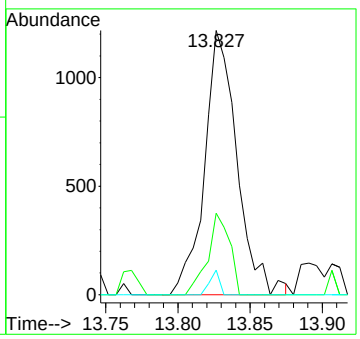




#90
bis(2-Ethylhexyl)phthalate
Concen: 0.06 ppm
RT: 13.827 min Scan# 2251
Delta R.T. -0.005 min
Lab File: 2p98985.d
Acq: 15 Jan 2021 2:46 pm

Tgt Ion:149 Resp: 1902

Ion	Ratio	Lower	Upper
149	100		
167	31.5	0.0	56.5
279	9.5	0.0	35.6



7.2.1

7

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: 2p98985.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.899	16	21	34	rVB	937405	941889	18.13%	1.829%
2	2.161	68	70	76	rVB2	76497	65404	1.26%	0.127%
3	2.525	136	138	154	rVB3	50182	93878	1.81%	0.182%
4	2.824	191	194	203	rVB3	91127	118217	2.28%	0.230%
5	2.931	211	214	217	rVV2	39536	40267	0.78%	0.078%
6	2.969	217	221	226	rVB2	55157	68211	1.31%	0.132%
7	3.033	227	233	237	rVB2	95644	94219	1.81%	0.183%
8	3.081	239	242	244	rBV4	17219	14978	0.29%	0.029%
9	3.103	244	246	248	rVB	32891	23710	0.46%	0.046%
10	3.151	249	255	260	rVB	218777	242542	4.67%	0.471%
11	3.210	261	266	282	rVB	535019	591211	11.38%	1.148%
12	3.333	284	289	298	rVB2	90989	115193	2.22%	0.224%
13	3.391	298	300	309	rVB6	12915	28029	0.54%	0.054%
14	3.509	318	322	362	rVB	3134099	2872932	55.31%	5.580%
15	3.835	380	383	387	rVB4	12726	12178	0.23%	0.024%
16	3.899	392	395	403	rVV7	11272	18506	0.36%	0.036%
17	3.953	403	405	413	rVB7	9257	14545	0.28%	0.028%
18	4.033	413	420	429	rBV5	10172	36533	0.70%	0.071%
19	4.108	433	434	438	rVB4	5776	4398	0.08%	0.009%
20	4.220	447	455	486	rBV	3126932	2858798	55.04%	5.553%
21	4.429	490	494	507	rBV	5581909	3741950	72.04%	7.268%
22	4.579	518	522	526	rVB5	5735	8795	0.17%	0.017%
23	4.750	549	554	557	rVB6	5618	8315	0.16%	0.016%
24	4.841	564	571	589	rBV	3545449	2847782	54.83%	5.531%
25	5.023	602	605	610	rVB	32698	29081	0.56%	0.056%
26	5.146	625	628	638	rVB10	6638	14877	0.29%	0.029%
27	5.237	638	645	650	rBV	46585	46561	0.90%	0.090%
28	5.418	669	679	708	rBV	5145735	4498110	86.60%	8.737%
29	5.718	733	735	741	rVB7	4213	5106	0.10%	0.010%
30	5.980	778	784	790	rBV2	17063	21581	0.42%	0.042%
31	6.130	808	812	815	rBV5	3124	4914	0.09%	0.010%
32	6.526	870	886	900	rBV	4931479	4264833	82.11%	8.284%
33	6.638	905	907	912	rVB6	7687	10515	0.20%	0.020%
34	6.750	923	928	932	rVB8	3004	4444	0.09%	0.009%
35	7.044	978	983	985	rBV6	2907	4548	0.09%	0.009%
36	7.082	985	990	996	rVV5	7491	11369	0.22%	0.022%
37	7.146	997	1002	1007	rVB8	3725	6299	0.12%	0.012%
38	7.344	1033	1039	1049	rBV2	4582612	4580766	88.19%	8.897%
39	7.414	1049	1052	1057	rVV5	20648	29870	0.58%	0.058%
40	7.446	1057	1058	1065	rVB7	5436	5120	0.10%	0.010%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

41	8.061	1166	1173	1180	rBV4	21306	26951	0.52%	0.052%
42	8.120	1180	1184	1189	rVB8	3536	5805	0.11%	0.011%
43	8.227	1199	1204	1211	rVB9	4661	8066	0.16%	0.016%
44	8.376	1224	1232	1233	rBV7	4255	5595	0.11%	0.011%
45	8.446	1238	1245	1264	rBV	1888113	2305151	44.38%	4.477%
46	8.670	1281	1287	1291	rVB9	3866	7408	0.14%	0.014%
47	8.767	1301	1305	1315	rBV4	13284	23111	0.44%	0.045%
48	8.917	1330	1333	1339	rVB8	4636	5362	0.10%	0.010%
49	9.056	1355	1359	1366	rVB9	3339	5794	0.11%	0.011%
50	9.200	1383	1386	1393	rVB9	3600	6794	0.13%	0.013%
51	9.280	1395	1401	1410	rBV4	14586	26860	0.52%	0.052%
52	9.414	1422	1426	1428	rBV4	4095	5162	0.10%	0.010%
53	9.462	1428	1435	1447	rVV2	4372294	4815948	92.72%	9.354%
54	9.548	1447	1451	1460	rVB6	13231	33688	0.65%	0.065%
55	9.885	1508	1514	1521	rVB6	3140	6072	0.12%	0.012%
56	9.943	1521	1525	1530	rVB7	4213	6412	0.12%	0.012%
57	10.002	1533	1536	1539	rBV5	3782	5689	0.11%	0.011%
58	10.500	1620	1629	1630	rBV7	3393	4994	0.10%	0.010%
59	10.516	1630	1632	1641	rVB10	4229	9223	0.18%	0.018%
60	10.778	1675	1681	1685	rBV9	3765	5086	0.10%	0.010%
61	11.174	1749	1755	1758	rBV8	3238	5990	0.12%	0.012%
62	11.270	1767	1773	1778	rVB9	2949	6657	0.13%	0.013%
63	11.323	1778	1783	1787	rBV5	8447	12941	0.25%	0.025%
64	11.361	1787	1790	1794	rVB5	3122	4689	0.09%	0.009%
65	11.441	1801	1805	1812	rVB9	2468	4839	0.09%	0.009%
66	11.607	1831	1836	1839	rBV6	3574	6195	0.12%	0.012%
67	11.687	1845	1851	1859	rVB6	4335	8954	0.17%	0.017%
68	12.013	1903	1912	1928	rBV	4343579	5085653	97.92%	9.878%
69	12.120	1930	1932	1939	rVB8	3484	5074	0.10%	0.010%
70	12.564	2011	2015	2022	rBV10	3866	7146	0.14%	0.014%
71	12.853	2061	2069	2076	rBV9	9356	15991	0.31%	0.031%
72	13.040	2098	2104	2107	rBV8	3608	5051	0.10%	0.010%
73	13.121	2117	2119	2125	rVB7	4011	5405	0.10%	0.010%
74	13.276	2146	2148	2155	rVB8	4029	5532	0.11%	0.011%
75	13.468	2181	2184	2192	rVB10	2544	5066	0.10%	0.010%
76	13.618	2202	2212	2227	rBV	3918984	5193908	100.00%	10.088%
77	13.821	2247	2250	2256	rVB7	5574	8739	0.17%	0.017%
78	13.891	2261	2263	2270	rVB8	5126	5512	0.11%	0.011%
79	14.105	2300	2303	2310	rVV9	2760	6303	0.12%	0.012%
80	14.164	2310	2314	2318	rVB7	8723	13024	0.25%	0.025%
81	14.495	2369	2376	2379	rBV9	3272	5966	0.11%	0.012%
82	14.661	2403	2407	2415	rBV9	7499	15926	0.31%	0.031%
83	14.741	2415	2422	2423	rBV6	7237	10831	0.21%	0.021%
84	14.880	2441	2448	2456	rBV5	27538	42924	0.83%	0.083%
85	14.993	2463	2469	2470	rBV5	4537	7384	0.14%	0.014%

LSC Area Percent Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Title : Semi Volatile Extractables by GC/MS

86	15.062	2478	2482	2487	rVB7	6169	8854	0.17%	0.017%
87	15.142	2488	2497	2504	rVV7	6927	15598	0.30%	0.030%
88	15.217	2506	2511	2514	rVV7	3516	5094	0.10%	0.010%
89	15.362	2527	2538	2539	rBV10	8655	20574	0.40%	0.040%
90	15.549	2569	2573	2575	rBV5	3755	4485	0.09%	0.009%
91	15.597	2580	2582	2587	rVV6	4875	6799	0.13%	0.013%
92	15.656	2588	2593	2596	rVB7	6774	9041	0.17%	0.018%
93	15.736	2597	2608	2623	rBV	3665301	5008231	96.43%	9.727%
94	15.891	2634	2637	2639	rBV4	6966	7392	0.14%	0.014%
95	15.934	2641	2645	2653	rVB10	12983	20440	0.39%	0.040%
96	16.207	2694	2696	2701	rVB6	5210	7312	0.14%	0.014%
97	16.362	2720	2725	2729	rBV8	35677	51982	1.00%	0.101%
98	16.453	2736	2742	2755	rVV8	37216	87646	1.69%	0.170%
99	16.972	2836	2839	2843	rVB6	9268	9110	0.18%	0.018%
100	19.058	3226	3229	3230	rBV3	9473	7430	0.14%	0.014%

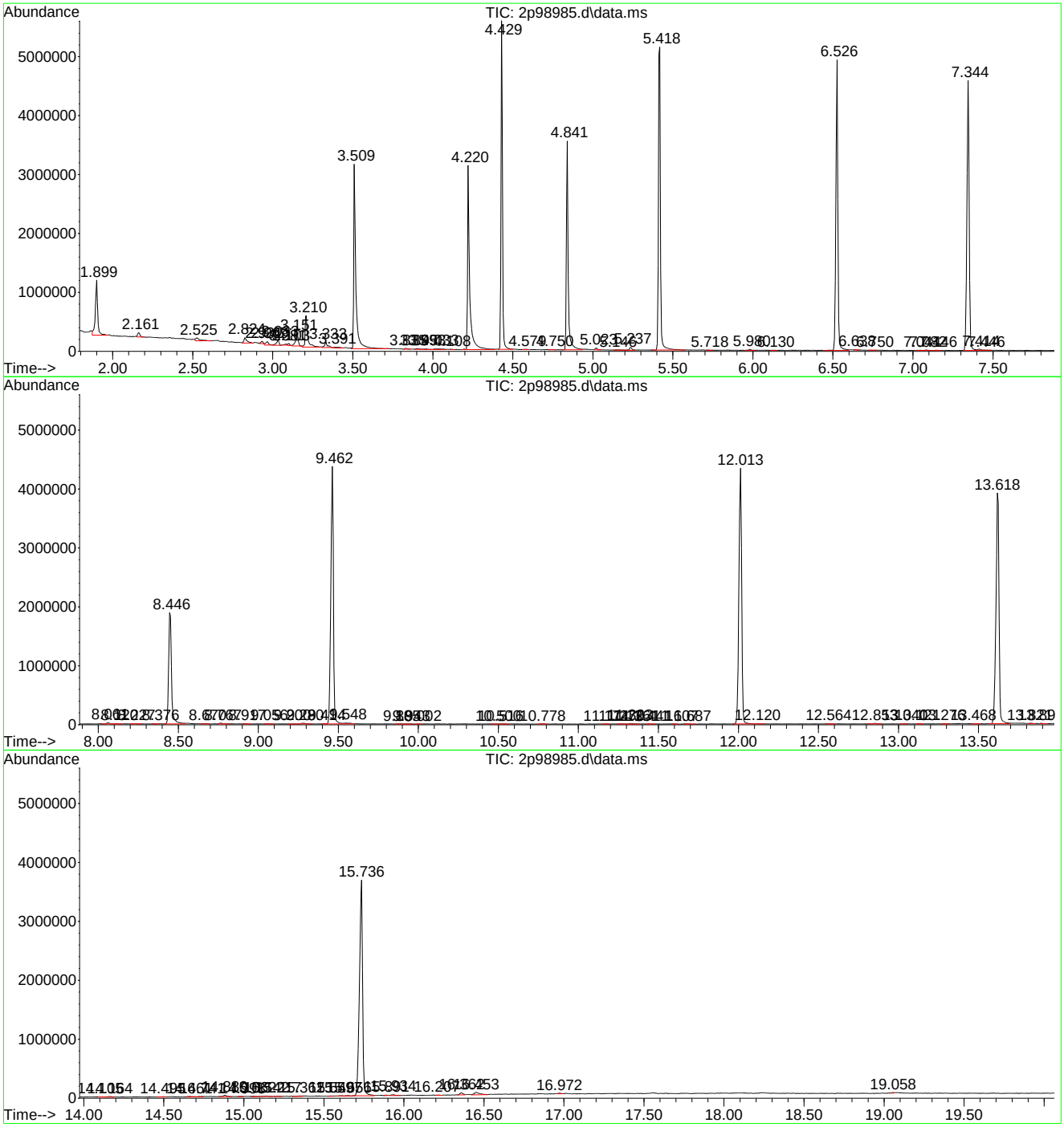
Sum of corrected areas: 51485333

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

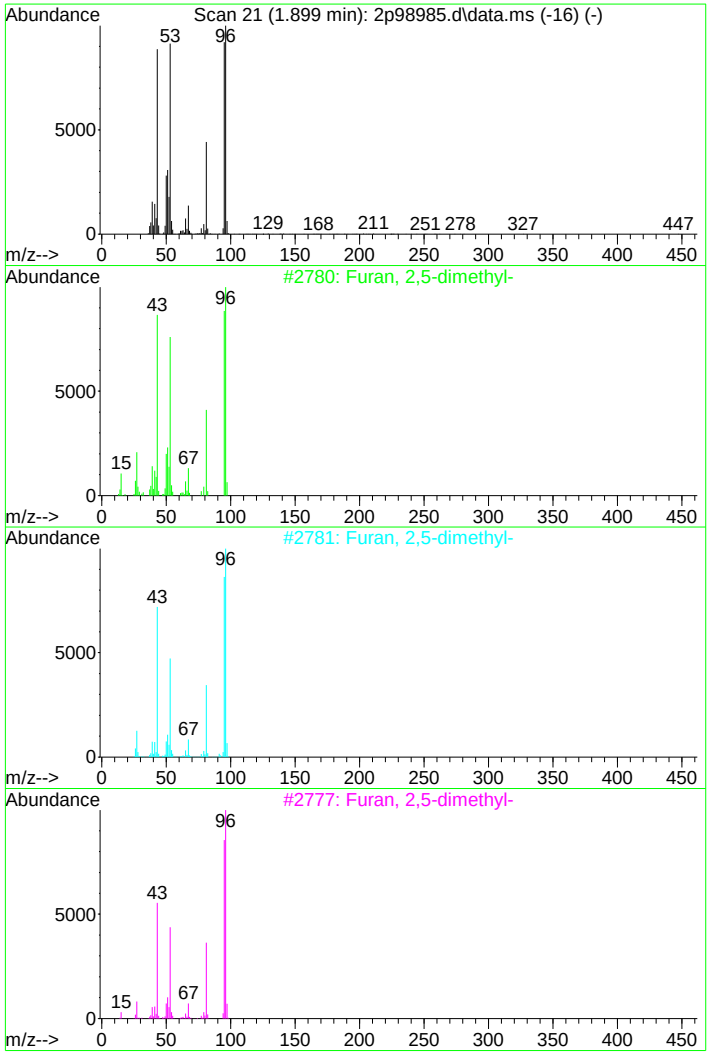
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

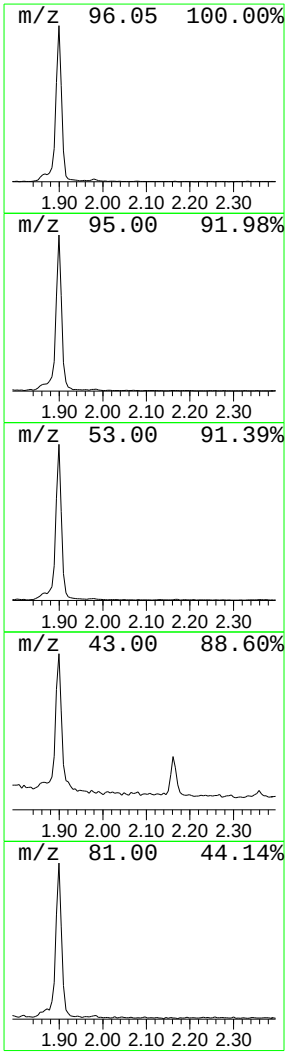
****

Peak Number 1 System artifact Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.899	10.07 ppm	941889	1,4-Dichlorobenzene-d4a	4.429

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	96
2	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	91
3	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	91
4	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	86
5	Furan, 2,4-dimethyl-	96	C6H8O	003710-43-8	78





Library Search Compound Report

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

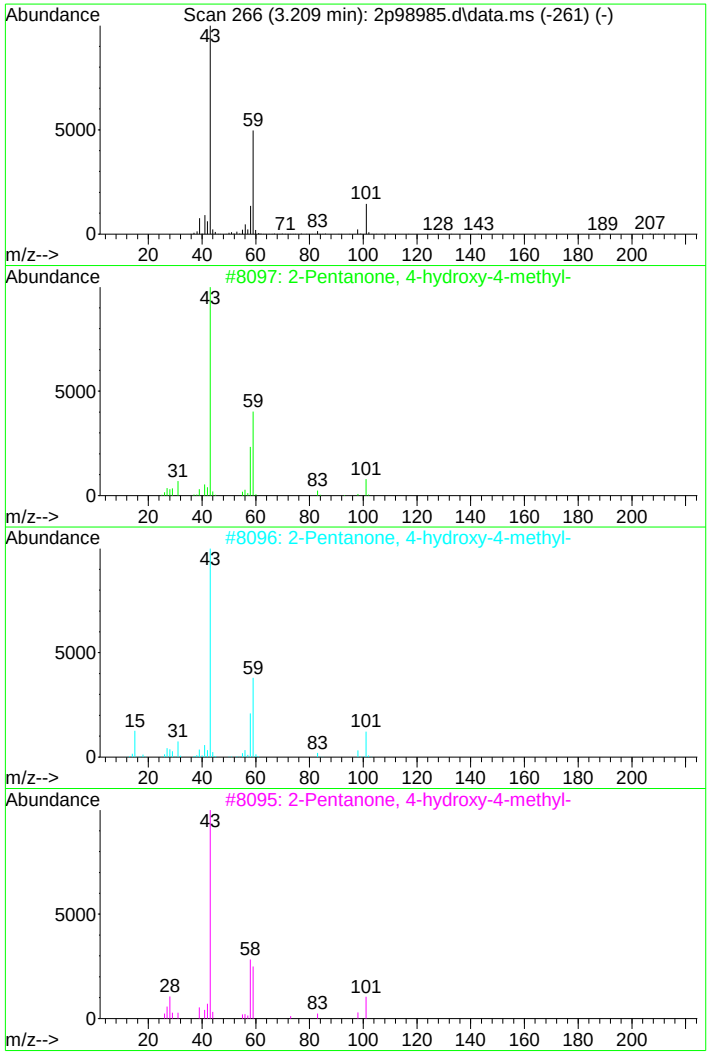
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

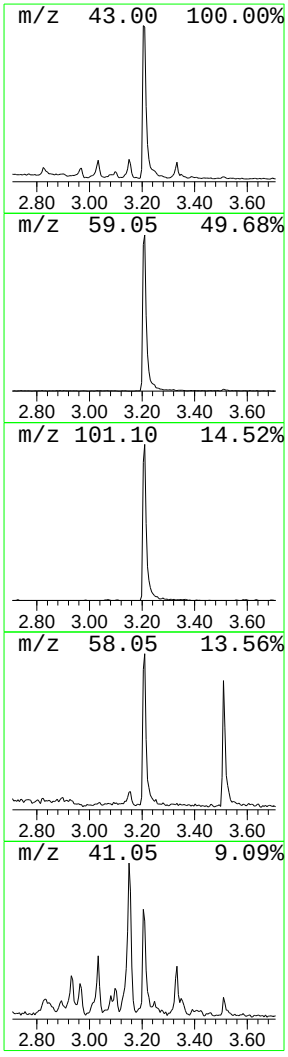
****

Peak Number 2 System artifact/aldol-conde... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.209	6.32 ppm	591211	1,4-Dichlorobenzene-d4a	4.429

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	39
3	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	28
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\data\jeryllr\e2p4412\
Data File : 2p98985.d
Acq On : 15 Jan 2021 2:46 pm
Operator : hennys
Sample : op31540-mb1
Misc : op31540,e2p4412,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2P4365.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact	1.899	10.1	ppm	941889	2	4.429	3741950	40.0
System artifact...	3.209	6.3	ppm	591211	2	4.429	3741950	40.0

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JD18939
Account: LBGNJ WSP USA
Project: Ridgewood Water, 579 Prospect Street, Glen Rock, NJ

Sample: JD18939-1 **Analyzed:** 13-JAN-21 by BG **Method:** SM2540 G 18TH ED MOD
ClientID: S-10R

Wet Weight (Total)	31.5	g
Tare Weight	24.39	g
Dry Weight (Total)	30.6	g
Solids, Percent	87.3	%

Sample: JD18939-2 **Analyzed:** 13-JAN-21 by BG **Method:** SM2540 G 18TH ED MOD
ClientID: S-15R

Wet Weight (Total)	33.79	g
Tare Weight	26.58	g
Dry Weight (Total)	32.26	g
Solids, Percent	78.8	%

Sample: JD18939-3 **Analyzed:** 13-JAN-21 by BG **Method:** SM2540 G 18TH ED MOD
ClientID: S-18R

Wet Weight (Total)	31.73	g
Tare Weight	24.6	g
Dry Weight (Total)	29.65	g
Solids, Percent	70.8	%

Table 2a
Ridgewood Water
Bergen County, New Jersey
Semi-Volatile Organic Compound (SVOC) Concentrations in Soil
Water Main Break Spoils Pile - January 12, 2021

Compound	NJDEP Residential Direct Contact Soil Remediation Standard (RDCSRS) [mg/kg]	NJDEP Non-Residential Direct Contact Soil Remediation Standard (NRDCSRS) [mg/kg]	NJDEP Default Impact to Groundwater Soil Screening Level (IGWSSL) [mg/kg]	S-10 R (mg/kg)	S-15 R (mg/kg)	S-18 R (mg/kg)
2-Chlorophenol	*310*	*2,200*	*N/A*	ND	ND	ND
4-Chloro-3-methyl phenol	*N/A*	*N/A*	*N/A*	ND	ND	ND
2,4-Dichlorophenol	*180*	*2,100*	*0.2*	ND	ND	ND
2,4-Dimethylphenol	*1,200*	*14,000*	*1*	ND	ND	ND
2,4-Dinitrophenol	*120*	*1,400*	*0.3*	ND	ND	ND
4,6-Dinitro-o-cresol	*6*	*68*	*0.3*	ND	ND	ND
2-Methylphenol	*310*	*3,400*	*N/A*	ND	ND	ND
3&4-Methylphenol	*31*	*340*	*N/A*	ND	ND	ND
2-Nitrophenol	*N/A*	*N/A*	*N/A*	ND	ND	ND
4-Nitrophenol	*N/A*	*N/A*	*N/A*	ND	ND	ND
Pentachlorophenol	*0.9*	*3*	*0.3*	ND	ND	ND
Phenol	*18,000*	*210,000*	*8*	ND	ND	ND
2,3,4,6-Tetrachlorophenol	*N/A*	*N/A*	*N/A*	ND	ND	ND
2,4,5-Trichlorophenol	*6,100*	*68,000*	*68*	ND	ND	ND
2,4,6-Trichlorophenol	*19*	*74*	*0.2*	ND	ND	ND
Acenaphthene	*3,400*	*37,000*	*74*	ND	0.102	0.0188 J
Acenaphthylene	*N/A*	*300,000*	*N/A*	0.0465	0.0626	0.0657
Acetophenone	*2*	*5*	*3*	ND	ND	ND
Anthracene	*17,000*	*30,000*	*1,500*	0.0456	0.278	0.187
Atrazine	*210*	*2,400*	*0.2*	ND	ND	ND
Benzo(a)anthracene	*5*	*17*	*0.5*	0.218	0.750	0.873
Benzo(a)pyrene	*0.5*	*2*	*0.2*	0.213	0.744*	0.852*
Benzo(b)fluoranthene	*5*	*17*	*2*	0.260	0.986	1.040
Benzo(g,h,i)perylene	*380,000*	*30,000*	*N/A*	0.131	0.511	0.598
Benzo(k)fluoranthene	*45*	*170*	*16*	0.0921	0.302	0.307
4-Bromophenyl phenyl ether	*N/A*	*N/A*	*N/A*	ND	ND	ND
Butyl benzyl phthalate	*1,200*	*14,000*	*230*	ND	ND	ND
1,1'-Biphenyl	*61*	*240*	*140*	ND	0.0112 J	ND
Benzaldehyde	*6,100*	*68,000*	*N/A*	ND	ND	ND
2-Chloronaphthalene	*N/A*	*N/A*	*N/A*	ND	ND	ND
4-Chloroaniline	*N/A*	*N/A*	*N/A*	ND	ND	ND
Carbazole	*24*	*96*	*N/A*	0.0105 J	0.105	0.0542 J
Caprolactam	*31,000*	*340,000*	*12*	ND	ND	ND
Chrysene	*450*	*1,700*	*52*	0.224	0.853	0.852
bis(2-Chloroethoxy)methane	*N/A*	*N/A*	*N/A*	ND	ND	ND
bis(2-Chloroethyl)ether	*0.4*	*2*	*0.2*	ND	ND	ND
2,2'-Oxybis(1-chloropropane)	*23*	*67*	*5*	ND	ND	ND
4-Chlorophenyl phenyl ether	*N/A*	*N/A*	*N/A*	ND	ND	ND
2,4-Dinitrotoluene	*0.7*	*3*	*N/A*	ND	ND	ND
2,6-Dinitrotoluene	*0.7*	*3*	*N/A*	ND	ND	ND
3,3'-Dichlorobenzidine	*1*	*4*	*0.2*	ND	ND	ND
1,4-Dioxane	*N/A*	*N/A*	*N/A*	ND	ND	ND
Dibenzo(a,h)anthracene	*0.5*	*2*	*0.5*	0.0352 J	0.132	0.155
Dibenzofuran	*N/A*	*N/A*	*N/A*	ND	0.0585 J	ND
Di-n-butyl phthalate	*6,100*	*68,000*	*760*	ND	ND	ND
Di-n-octyl phthalate	*2,400*	*27,000*	*N/A*	ND	ND	ND
Diethyl phthalate	*49,000*	*550,000*	*88*	ND	ND	ND
Dimethyl phthalate	*N/A*	*N/A*	*N/A*	ND	ND	ND
bis(2-Ethylhexyl)phthalate	*35*	*140*	*1,200*	ND	0.0969	ND
Fluoranthene	*2,300*	*24,000*	*840*	0.333	1.62	1.58
Fluorene	*2,300*	*24,000*	*110*	ND	0.130	0.0260 J
Hexachlorobenzene	*0.3*	*1*	*0.2*	ND	ND	ND
Hexachlorobutadiene	*6*	*25*	*0.9*	ND	ND	ND
Hexachlorocyclopentadiene	*45*	*110*	*320*	ND	ND	ND
Hexachloroethane	*12*	*48*	*0.2*	ND	ND	ND
Indeno(1,2,3-cd)pyrene	*5*	*17*	*5*	0.135	0.523	0.597
Isophorone	*510*	*2,000*	*0.2*	ND	ND	ND
2-Methylnaphthalene	*230*	*2,400*	*8*	ND	0.0355 J	ND
2-Nitroaniline	*39*	*23,000*	*N/A*	ND	ND	ND
3-Nitroaniline	*N/A*	*N/A*	*N/A*	ND	ND	ND
4-Nitroaniline	*N/A*	*N/A*	*N/A*	ND	ND	ND
Naphthalene	*6*	*17*	*16*	0.0176 J	0.0268 J	ND
Nitrobenzene	*5*	*14*	*0.2*	ND	ND	ND
N-Nitroso-di-n-propylamine	*0.2*	*0.3*	*0.2*	ND	ND	ND
N-Nitrosodiphenylamine	*99*	*390*	*0.4*	ND	ND	ND
Phenanthrene	*N/A*	*300,000*	*N/A*	0.130	0.981	0.533
Pyrene	*1,700*	*18,000*	*550*	0.381	1.48	1.57
1,2,4,5-Tetrachlorobenzene	*N/A*	*N/A*	*N/A*	ND	ND	ND
Total TICs, Semi-Volatile	*N/A*	*N/A*	*N/A*	0.16 J	47.56 J	5.03 J

Notes: *mg/kg - milligrams per kilogram*
ND - not detected
J - indicates an estimated concentration
N/A - standard not available

Indicates soil concentration exceeds RDCSRS
(indicates concentration also exceeds IGWSSL)*

Indicates soil concentration exceeds IGWSSL

APPENDIX C

Soil Boring Logs

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-1**

SHEET **1** OF **1**

PROJECT NO.: **23-1429** PROJECT: **Ridgewood Berm Sampling** DATE: **5/3/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: 40°59'24.11"N 74°05'41.25"W DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **Kerry Murphy**

DRILLING EQUIPMENT: **Geoprobe 7822DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 527,315.488 Northing 709,799.908

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		Mulch, wood chips			0	
1		Silt, some Clay			0	
		Silt, some Clay			0	
2		Silt, some Clay			0	
		Sandy silt, gravel	SB-1	8:30	0	TCLSVOC+20,TAL Metals,
3		Sandy silt, gravel			0	TCL Pesticides,PCBs,
		Sandy silt, gravel			0	
4		Sandy silt, gravel			0	
		Sandy silt, gravel			0	
5		Sandy silt, gravel			0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-2**

SHEET **1** OF **1**

PROJECT NO.: **23-1429** PROJECT: **Ridgewood Berm Sampling** DATE: **5/3/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: 40°59'23.008"N 74°05'40.611"W DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **Kerry Murphy**

DRILLING EQUIPMENT: **Geoprobe 7822DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 527,309.176 Northing 709,815.075

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		Mulch, wood chips			0	
1		Silt, some Clay			0	
		Silt, some Clay			0	
2		Silt, some Clay			0	
		Sandy silt, gravel	SB-2	8:35	0	TCLSVOC+20,TAL Metals,
3		Sandy silt, gravel			0	
		Sandy silt, gravel			0	
4		Sandy silt, gravel			0	
		Sandy silt, gravel			0	
5		Sandy silt, gravel			0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-3**

SHEET **1** OF **1**

PROJECT NO.: **23-1429** PROJECT: **Ridgewood Berm Sampling** DATE: **5/3/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: 40°59'21.914"N 74°05'39.821"W DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **Kerry Murphy**

DRILLING EQUIPMENT: **Geoprobe 7822DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 527,297.905 Northing 709,825.013

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		Mulch, wood chips			0	
1		Silt, some Clay			0	
		Silt, some Clay			0	
2		Silt, some Clay			0	
		Silt, some Clay			0	
3		Silt, some Clay	SB-3	8:33	0	TCLSVOC+20,TAL Metals,
		Silt, some Clay			0	TCL Pesticides,PCBs,
4		Silt, some Clay			0	
		Silt, some Clay			0	
5		Silt, some Clay			0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-4**

SHEET **1** OF **1**

PROJECT NO.: **23-1429** PROJECT: **Ridgewood Berm Sampling** DATE: **5/3/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: 40°59'20.738"N 74°05'38.749"W DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **Kerry Murphy**

DRILLING EQUIPMENT: **Geoprobe 7822DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **10** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 527,297.905 Northing 709,825.013

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		Mulch, wood chips			0	
1		Sandy silt, Clay, gravel			0	
		Sandy silt, Clay, gravel			0	
2		Sandy silt, Clay, gravel			0	
		Sandy silt, Clay, gravel			0	
3		Sandy silt, Clay, gravel	SB-4	9:00	0	TCLSVOC+20,TAL Metals,
		Sandy silt, Clay, gravel			0	TCL Pesticides,PCBs,
4		Sandy silt, Clay, gravel			0	
		Sandy silt, Clay, gravel			0	
5		Sandy silt, Clay, gravel			0	
		Grey Clay			0	
6		Grey Clay			0	
		Grey Clay			0	
7		Grey Clay			0	
		Gravel			0	
8		Gravel			0	
		Brown silt - native soil			0	
9		Brown silt - native soil			0	
		Brown silt - native soil			0	
10		Brown silt - native soil			0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-5**

SHEET **1** OF **1**

PROJECT NO.: **23-1429** PROJECT: **Ridgewood Berm Sampling** DATE: **5/3/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: 40°59'19.889"N 74°05'38.157"W DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **Kerry Murphy**

DRILLING EQUIPMENT: **Geoprobe 7822DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 527,297.905 Northing 709,825.013

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		Mulch, wood chips			0	
1		Brown Sandy silt, some Clay and gravel			0	
		Brown Sandy silt, some Clay and gravel			0	
2		Brown Sandy silt, some Clay and gravel			0	
		Brown Sandy silt, some Clay and gravel	SB-5	9:05	0	TCLSVOC+20,TAL Metals,
3		Brown Sandy silt, some Clay and gravel			0	TCL Pesticides,PCBs,
		Brown Sandy silt, some Clay and gravel			0	
4		Brown Sandy silt, some Clay and gravel			0	
		Brown Sandy silt, some Clay and gravel			0	
5		Brown Sandy silt, some Clay and gravel			0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-6**

SHEET **1** OF **1**

PROJECT NO.: **23-1429** PROJECT: **Ridgewood Berm Sampling** DATE: **5/3/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: 40°59'19.031"N 74°05'37.500"W DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **Kerry Murphy**

DRILLING EQUIPMENT: **Geoprobe 7822DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 527,297.905 Northing 709,825.013

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		Mulch, wood chips			0	
1		Brown Sandy silt, some Clay and gravel			0	
		Brown Sandy silt, some Clay and gravel			0	
2		Brown Sandy silt, some Clay and gravel			0	
		Brown Sandy silt, some Clay and gravel			0	
3		Brown Sandy silt, some Clay and gravel	SB-6	9:10	0	TCLSVOC+20,TAL Metals,
		Brown Sandy silt, some Clay and gravel			0	
4		Brown Sandy silt, some Clay and gravel			0	
		Brown Sandy silt, some Clay and gravel			0	
5		Brown Sandy silt, some Clay and gravel			0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-7**

SHEET **1** OF **1**

PROJECT NO.: **23-1429** PROJECT: **Ridgewood Berm Sampling** DATE: **5/3/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: 40°59'18.080"N 74°05'36.764"W DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **Kerry Murphy**

DRILLING EQUIPMENT: **Geoprobe 7822DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 527,297.905 Northing 709,825.013

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		Mulch, wood chips			0	
1		Brown Sandy silt, some Clay and gravel			0	
		Brown Sandy silt, some Clay and gravel			0	
2		Brown Sandy silt, some Clay and gravel			0	
		Brown Sandy silt, some Clay and gravel	SB-7 &Dupe -1	9:20	0	TCLSVOC+20,TAL Metals,
3		Brown Sandy silt, some Clay and gravel			0	TCL Pesticides,PCBs,
		Brown Sandy silt, some Clay and gravel			0	
4		Brown Sandy silt, some Clay and gravel			0	
		Brown Sandy silt, some Clay and gravel			0	
5		Brown Sandy silt, some Clay and gravel			0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-8**

SHEET **1** OF **1**

PROJECT NO.: **23-1429** PROJECT: **Ridgewood Berm Sampling** DATE: **5/3/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: 40°59'17.365"N 74°05'36.138"W DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **Kerry Murphy**

DRILLING EQUIPMENT: **Geoprobe 7822DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 527,297.905 Northing 709,825.013

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		Wood chips, brown Sandy silt, some Clay and gravel			0	
1		Wood chips, brown Sandy silt, some Clay and gravel			0	
		Wood chips, brown Sandy silt, some Clay and gravel			0	
2		Wood chips, brown Sandy silt, some Clay and gravel			0	
		Wood chips, brown Sandy silt, some Clay and gravel			0	
3		Wood chips, brown Sandy silt, some Clay and gravel			0	
		Wood chips, brown Sandy silt, some Clay and gravel	SB-8	9:30	0	TCLSVOC+20,TAL Metals,
4		Wood chips, brown Sandy silt, some Clay and gravel			0	TCL Pesticides,PCBs,
		Wood chips, brown Sandy silt, some Clay and gravel			0	
5		Wood chips, brown Sandy silt, some Clay and gravel			0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-9**

SHEET **1** OF **1**

PROJECT NO.: **23-1429** PROJECT: **Ridgewood Berm Sampling** DATE: **5/3/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: 40°59'16.875"N 74°05'35.623"W DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **Kerry Murphy**

DRILLING EQUIPMENT: **Geoprobe 7822DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 527,297.905 Northing 709,825.013

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		Wood chips			0	
1		Brown Sandy silt, some Clay and gravel			0	
		Brown Sandy silt, some Clay and gravel			0	
2		Brown Sandy silt, some Clay and gravel			0	
		Brown Sandy silt, some Clay and gravel			0	
3		Brown Sandy silt, some Clay and gravel			0	
		Brown Sandy silt, some Clay and gravel			0	
4		Brown Sandy silt, some Clay and gravel	SB-9	9:35	0	TCLSVOC+20,TAL Metals,
		Brown Sandy silt, some Clay and gravel			0	
5		Brown Sandy silt, some Clay and gravel			0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-10**

SHEET **1** OF **1**

PROJECT NO.: **23-1429** PROJECT: **Ridgewood Berm Sampling** DATE: **5/3/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: 40°59'16.236"N 74°05'35.117"W DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **Kerry Murphy**

DRILLING EQUIPMENT: **Geoprobe 7822DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **10** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 453,872.975 Northing 632,674.812

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		Wood chips			0	
1		Brown Sandy silt, some Clay and gravel			0	
		Brown Sandy silt, some Clay and gravel			0	
2		Brown Sandy silt, some Clay and gravel			0	
		Brown Sandy silt, some Clay and gravel			0	
3		Brown Sandy silt, some Clay and gravel			0	
		Brown Sandy silt, some Clay and gravel	SB-10	9:50	0	TCLSVOC+20,TAL Metals,
4		Brown Sandy silt, some Clay and gravel			0	TCL Pesticides,PCBs,
		Brown Sandy silt, some Clay and gravel			0	
5		Brown Sandy silt, some Clay and gravel			0	
		Brown coarse sand			0	
6		Brown coarse sand			0	
		Brown coarse sand, silt			0	
7		Brown coarse sand, silt			0	
		Brown coarse sand, silt			0	
8		Brown coarse sand, silt			0	
		Brown silt, some sand			0	
9		Brown silt, some sand			0	
		Brown silt, some sand			0	
10		Brown silt, some sand			0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-11**

SHEET **1** OF **1**

PROJECT NO.: **23-1429** PROJECT: **Ridgewood Berm Sampling** DATE: **5/3/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: 40°59'15.738"N 74°05'34.692"W DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **Kerry Murphy**

DRILLING EQUIPMENT: **Geoprobe 7822DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 453,872.975 Northing 632,674.812

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		Wood chip			0	
1		Brown Sandy silt, some Clay and gravel			0	
		Brown Sandy silt, some Clay and gravel			0	
2		Brown Sandy silt, some Clay and gravel			0	
		Dark brown silt and gravel			0	
3		Dark brown silt and gravel	SB-12 &Dupe-2	10:00	0	TCLSVOC+20,TAL Metals,
		Brown silt, some gravel			0	TCL Pesticides,PCBs,
4		Brown silt, some gravel			0	
		Brown silt, some gravel			0	
5		Brown silt, some gravel			0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-12**

SHEET **1** OF **1**

PROJECT NO.: **23-1429** PROJECT: **Ridgewood Berm Sampling** DATE: **5/3/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: 40°59'15.389"N 74°05'34.352"W DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **Kerry Murphy**

DRILLING EQUIPMENT: **Geoprobe 7822DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 453,872.975 Northing 632,674.812

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		Wood chips			0	
1		Dark brown Sandy silt			0	
		Dark brown Sandy silt			0	
2		Dark brown Sandy silt			0	
		Dark brown Sandy silt			0	
3		Dark brown Sandy silt			0	
		Dark brown Clay, some silt	SB-12	10:15	0	TCLSVOC+20,TAL Metals,
4		Dark brown Clay, some silt			67.3	TCL Pesticides,PCBs,
		Dark brown Clay			0	
5		Dark brown Clay			0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-13**

SHEET **1** OF **1**

PROJECT NO.: **23-1429** PROJECT: **Ridgewood Berm Sampling** DATE: **5/3/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: 40°59'15.198"N 74°05'33.968"W DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **Kerry Murphy**

DRILLING EQUIPMENT: **Geoprobe 7822DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 453,872.975 Northing 632,674.812

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		Wood chips			0	
1		Brown Sandy silt, sandy clay and gravel			0	
		Brown Sandy silt, sandy clay and gravel			0	
2		Brown Sandy silt, sandy clay and gravel			0	
		Brown Sandy silt, sandy clay and gravel			0	
3		Brown Sandy silt, sandy clay and gravel			0	
		Brown Sandy silt, sandy clay and gravel	SB-13	10:30	0	TCLSVOC+20,TAL Metals,
4		Brown Sandy silt, sandy clay and gravel			0	
		Brown Sandy silt, sandy clay and gravel			0	
5		Brown Sandy silt, sandy clay and gravel			0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-14**

SHEET **1** OF **1**

PROJECT NO.: **23-1429** PROJECT: **Ridgewood Berm Sampling** DATE: **5/3/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: 40°59'15.203"N 74°05'33.633"W DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **Kerry Murphy**

DRILLING EQUIPMENT: **Geoprobe 7822DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **10** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 453,872.975 Northing 632,674.812

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		Wood chip			0	
1		Brown coarse sand, some silt and gravel			0	
		Brown coarse sand, some silt and gravel			0	
2		Brown coarse sand, some silt and gravel			0	
		Brown coarse sand, some silt and gravel			0	
3		Brown coarse sand, some silt and gravel			0	
		Brown coarse sand, some silt and gravel	SB-14	10:35	0	TCLSVOC+20,TCL Pesticides,
4		Brown coarse sand, some silt and gravel			0	TAL Metals,PCBs
		Brown coarse sand, some silt and gravel			0	
5		Brown coarse sand, some silt and gravel			0	
		Light brown coarse sand			0	
6		Light brown coarse sand			0	
		Light brown coarse sand			0	
7		Light brown coarse sand			0	
		Light brown coarse sand			0	
8		Light brown coarse sand			0	
		Brown silt, sand			0	
9		Brown silt, sand			0	
		Brown silt, sand			0	
10		Brown silt, sand			0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

APPENDIX D

Data Validation Reports

RIDGEWOOD BERM SOIL SAMPLING

VALIDATION OF LABORATORY RESULTS
SGS LABORATORY (DAYTON, NJ)

LABORATORY REPORT # JD87833 DATED MAY 16, 2024

INTRODUCTION

Matrix New World Engineering (Matrix) collected 14 soil samples, two field duplicate samples, and one aqueous field blank on May 3, 2024. Samples were relinquished to an SGS Laboratory courier, and then transported to SGS Laboratory, located in Dayton, New Jersey on the day of sampling. Sample identifications and requested analyses are listed below.

Matrix Sample IDs	Laboratory Sample IDs	Analyses Requested and Methods
SB-1	JD87833-1	TCL SVOCs – EPA Method 8270E TAL Metals – EPA Method 6010D and 7471B (Mercury) TCL Pesticides – EPA Method 8081B PCBs (Aroclors) – EPA Method 8082A
SB-3	JD87833-3	
SB-4	JD87833-4	
SB-5	JD87833-5	
SB-7	JD87833-7	
SB-8	JD87833-8	
SB-10	JD87833-10	
SB-11	JD87833-11	
SB-12	JD87833-12	
SB-14	JD87833-14	
DUPE 1	JD87833-15	Duplicate of primary soil sample SB-7
DUPE 2	JD87833-16	Duplicate of primary soil sample SB-11
SB-2	JD87833-2	TCL SVOCs – EPA Method 8270E Target Analyte List Metals – EPA Method 6010D
SB-6	JD87833-6	
SB-9	JD87833-9	
SB-13	JD87833-13	
Field Blank	JD87833-17	TCL SVOCs – EPA Method 8270E Target Analyte List Metals – EPA Method 6010D TCL Pesticides – EPA Method 8081B PCBs (Aroclors) – EPA Method 8082A
Field Blank	JD87833-17R	TCL Pesticides – EPA Method 8081B (re-analysis)

TAL = Target Analyte List TCL = Target Compound List
SVOC = Semi-Volatile Organic Compounds
PCBs = Polychlorinated Biphenyls

Samples were received under proper chain of custody in two coolers and were properly chilled at 2.1 to 2.2 degrees Celsius. Quality Control for the soil samples is evaluated in the

following checklist tables and comments. A summary of data quality for the samples analyzed is provided at the end of this validation report.

VALIDATION CHECKLIST SUMMARY
RIDGEWOOD BERM SOIL SAMPLING

SVOCs BY METHOD 8270E

REQUIREMENTS	REPORTED NO	REPORTED YES	PERFORMANCE ACCEPTABLE NO	PERFORMANCE ACCEPTABLE YES	DATA QUALIFIED - COMMENTS
GAS CHROMATOGRAPHY/ MASS SPECTROMETRY (GC/MS)					
1. Holding times		X		X	
2. Detection limits		X		X	Yes, see notes
3. Blanks					
A. Laboratory Method Blanks		X	X		Yes
B. Field Blanks		X		X	
4. Laboratory Control Sample (LCS) %R		X		X	
5. LCS Duplicate %R and (RPD)		X	X		Field blank only.
6. Matrix Spike (MS) %R		X		X	
7. MS Duplicate (MSD) %R and (RPD)		X		X	
8. Surrogate Recoveries (%R)		X		X	
9. Field Duplicate Comparison		X	X		Yes
10. Results Quantitation		X		X	Yes, See notes

%R - percent recovery RPD - relative percent difference CCV – continuing calibration verification

COMMENTS: Performance was acceptable, with the following exceptions and/or notes.

1) The soil samples were extracted on May 9, 2024 within the required 14-day holding time. SVOC analyses were performed by May 13, 2024 within the 40 day holding time after extraction. Extraction and analysis holding times were met.

2) Samples SB-3 and SB-11 were diluted by a factor two times for all SVOCs. Sample SB-5 was diluted by a factor of five times for fluoranthene and pyrene only. Samples DUPE-1 was diluted by a factor of five times for fluoranthene only. No other sample dilutions were required for analysis of SVOCs. Several SVOCs were detected in soil samples at concentrations between the method detection limit (MDL) and the reporting limit. **Due to limited accuracy in this portion of the calibration range these SVOCs results are qualified as J/Estimated, as noted in the following pages:**

Sample ID	Qualified SVOCs (ug/kg)
SB-1	Acenaphthene = 18.0 *J*
SB-1	1,1'-Biphenyl = 6.2 *J*
SB-1	Benzaldehyde = 17.2 *J*
SB-1	Carbazole = 30.5 *J*
SB-1	Di-n-butyl phthalate = 14.3 *J*
SB-1	bis(2-Ethylhexyl)phthalate = 80.4 *J*
SB-1	Fluorene = 24.3 *J*
SB-2	1,1'-Biphenyl = 19.2 *J*
SB-2	Carbazole = 24.6 *J*
SB-2	Naphthalene = 20.9 *J*
SB-3	1,1'-Biphenyl = 14.2 *J*
SB-3	Carbazole = 11.4 *J*
SB-3	Dibenzofuran= 86.7 *J*
SB-3	2-Methylnaphthalene = 28.6 *J*
SB-3	Naphthalene = 34.5 *J*
SB-4	1,1'-Biphenyl = 8.7 *J*
SB-4	Carbazole = 69.0 *J*
SB-4	Dibenzofuran = 50.9 *J*
SB-4	2-Methylnaphthalene = 18.1 *J*
SB-4	Naphthalene = 23.8 *J*
SB-5	1,1'-Biphenyl = 13.0 *J*
SB-5	Carbazole = 72.3 *J*
SB-5	2-Methylnaphthalene = 20.0 *J*
SB-5	Naphthalene = 28.6 *J*
SB-6	1,1'-Biphenyl = 15.9 *J*
SB-6	Carbazole = 102 *J*
SB-6	2-Methylnaphthalene = 25.1 *J*
SB-7	1,1'-Biphenyl = 12.6 *J*
SB-7	Dibenzofuran = 66.3 *J*
SB-7	2-Methylnaphthalene = 26.5 *J*
SB-8	1,1'-Biphenyl = 6.2 *J*
SB-8	Carbazole = 34.2 *J*
SB-8	Dibenzofuran = 24.1 *J*
SB-8	2-Methylnaphthalene = 10.3 *J*
SB-8	Naphthalene = 17.1 *J*

Sample ID	Qualified SVOCs (ug/kg)
SB-9	Acenaphthene = 23.0 *J*
SB-9	1,1'-Biphenyl = 9.8 *J*
SB-9	Benzaldehyde = 23.2 *J*
SB-9	Carbazole = 40.0 *J*
SB-9	Dibenzofuran = 24.1 J
SB-9	Di-n-butyl phthalate = 10.8 *J*
SB-9	bis(2-Ethylhexyl)phthalate = 43.9 *J*
SB-9	2-Methylnaphthalene = 15.2 *J*
SB-9	Naphthalene = 23.9 *J*
SB-10	3&4-Methylphenol = 47.6 *J*
SB-10	Acenaphthylene = 30.4 *J*
SB-10	Benzo(k)fluoranthene = 38.7 *J*
SB-10	Carbazole = 7.2 *J*
SB-11	Benzo(k)fluoranthene= 41.2 *J*
SB-11	Butyl benzyl phthalate = 36.5 *J*
SB-11	Carbazole = 12.2 *J*
SB-11	bis(2-Ethylhexyl)phthalate = 28.1 *J*
SB-11	Indeno(1,2,3-cd)pyrene = 58.2 *J*
SB-12	Benzo(a)anthracene = 16.6 *J*
SB-12	Benzo(b)fluoranthene = 22.9 *J*
SB-12	Benzaldehyde = 10.3 *J*
SB-12	Chrysene = 18.0 *J*
SB-12	Fluoranthene = 28.6 *J*
SB-12	Phenanthrene= 16.3 *J*
SB-12	Pyrene = 28.4 *J*
SB-13	Benzo(a)anthracene = 37.0 *J*
SB-13	Benzo(g,h,i)perylene = 32.9 *J*
SB-13	Benzo(k)fluoranthene = 18.3 *J*
SB-13	Carbazole = 6.5 *J*
SB-13	bis(2-Ethylhexyl)phthalate = 10.7 *J*
SB-13	Indeno(1,2,3-cd)pyrene = 27.2 *J*
SB-14	1,1'-Biphenyl = 6.6 *J*
SB-14	Carbazole = 46.5 *J*
SB-14	Dibenzofuran = 17.2 *J*
SB-14	bis(2-Ethylhexyl)phthalate = 15.2 *J*
SB-14	Naphthalene = 10.9 *J*

Sample ID	Qualified SVOCs (ug/kg)
DUP 1	1,1'-Biphenyl = 9.6 *J*
DUP 1	Carbazole = 81.5 *J*
DUP 1	Dibenzofuran = 62.1 *J*
DUP 1	2-Methylnaphthalene = 18.9 *J*
DUP 1	Naphthalene = 32.2 *J*
DUP 2	1,1'-Biphenyl = 7.7 *J*
DUP 2	Benzaldehyde= 9.2 *J*
DUP 2	Carbazole = 41.6 *J*
DUP 2	Dibenzofuran = 25.1 *J*
DUP 2	2-Methylnaphthalene = 15.7 *J*
DUP 2	Naphthalene = 21.6 *J*

3) SGS provided results from one full suite solid matrix method blank in support of the SVOC analyses. No SVOCs were detected in the method blank, with one exception. Carbazole was detected in the method blank at an estimated concentration of 6.2 ug/Kg. Carbazole was detected in several soil samples at concentrations within five times the concentration detected in the method blank. Due to potential blank contamination bias, the following Carbazole results (detections less than 31 ug/Kg) are qualified as U/Non-detect at the concentrations reported, as follows:

Sample ID	Qualified Results (ug/kg)
SB-1	Carbazole = 30.5 ***U***
SB-2	Carbazole = 24.6 ***U***
SB-10	Carbazole = 7.2 ***U***
SB-11	Carbazole = 12.2 ***U***
SB-13	Carbazole = 6.5 ***U***

Results from one aqueous field blank were provided. No SVOCs were detected in the field blank.

4-5) SGS provided results from one full set of solid matrix laboratory control sample (LCS) analyses (identified as blank spike analyses) in support of the SVOC analyses. All LCS recoveries were within laboratory specified control limits, ranging from 40 to 120 percent. Accuracy, as demonstrated by these analyses is acceptable.

One set of aqueous LCS and LCS duplicate analyses were provided in support of the field blank. LCS recoveries were low for several SVOCs. No action is taken based on the low LCS recoveries in support of the field blank.

6-7) SGS provided results from one set of project specific (spike on sample SB-1) matrix spike (MS) and MSD duplicate analyses in support of the SVOC analyses. MS and MSD recoveries ranged from 12 to 110 percent (various control limits). The maximum RPD between MS and MSD results was 55 percent. Precision and accuracy, as demonstrated by these analyses is acceptable.

8) Six surrogates were spiked into each soil sample in support of the SVOC analyses. Surrogate recoveries were acceptable, ranging from 61 to 103 percent (various control limits). Accuracy, as demonstrated by these analyses is acceptable.

9) Two sets of field duplicate samples were submitted in support of the SVOC analyses.

DUPE-1 was submitted as a blind field duplicate of primary sample SB-7.
Sample DUPE-2 was submitted as a blind field duplicate of primary sample SB-11.

Results of the field duplicate sampling for SVOCs that were detected in either of the primary or duplicate samples are presented below. Precision assessment is based on the RPD % between sample results. A 50 % RPD or less is used to define acceptable precision between the soil sample results. **Bold RPD values exceed this criterion. In such cases the primary and duplicate sample results are qualified as estimated.**

SVOCs	SB-7		DUP 1		RPD		SB-11 *		DUP 2		RPD
Acenaphthene	0.104		0.115		10.0		0.075	U	0.04		+/- RL
Acenaphthylene	0.345		0.285		19.0		0.075	U	0.192		**87.6**
Anthracene	0.495		0.566		13.4		0.075	U	0.25		**108**
Benzo(a)anthracene	1.38		1.82		27.5		0.0914		0.988		**166**
Benzo(a)pyrene	1.56		1.96		22.7		0.0985		1.01		**164**
Benzo(b)fluoranthene	1.64		2.28		32.7		0.116		1.26		**166**
Benzo(g,h,i)perylene	1		1.23		20.6		0.0842		0.624		**152**
Benzo(k)fluoranthene	0.603		0.71		16.3		0.0412	J	0.329		**156**
Butyl benzyl phthalate	0.071	U	0.069	U	+/- RL		0.0365	J	0.072	U	+/- RL
1,1'-Biphenyl	0.0126	J	0.0096	J	27.0		0.15	U	0.0077	J	+/- RL
Benzaldehyde	0.18	U	0.17	U	+/- RL		0.38	U	0.0092	J	+/- RL
Carbazole	0.0724		0.0815	B	11.8		0.0122	JB	0.0416	J	**109**
Chrysene	1.25		1.68		29.4		0.101		0.959		**162**
Dibenzo(a,h)anthracene	0.261		0.327		22.4		0.075	U	0.175		**80.0**
Dibenzofuran	0.0663	J	0.0621	J	6.5		0.15	U	0.0251	J	+/- RL
Fluoranthene	2.39		3.53		38.5		0.167		1.65		**163**
Fluorene	0.167		0.155		7.5		0.075	U	0.0613		+/- RL
Indeno(1,2,3-cd)pyrene	0.822		1.04		23.4		0.0582	J	0.535		**161**
2-Methylnaphthalene	0.0265	J	0.0189	J	33.5		0.075	U	0.0157	J	+/- RL
Naphthalene	0.0383		0.0322	J	17.3		0.075	U	0.0216	J	+/- RL
Phenanthrene	1.05		1.54		37.8		0.0899		0.572		**146**
Pyrene	2.64		3.35		23.7		0.176		1.66		**162**
Total TIC, Semi-Volatile	7.44	J	8.12	J	8.7		2.1	J	8.85	J	**123**

* Sample SB-11 was analyzed at a 2 times dilution so reporting limits are two times higher than for duplicate sample DUP 2. The value of the detection limit was used in the RPD calculation for SB-11 when the concentration was non-detect (U).

+/- RL = Results agree within a reporting limit increment and precision is determined to be acceptable.

10) No anomalies were noted with respect to results SVOC quantitation or reporting. The laboratory noted that CCV recoveries were high or some SVOCs that were not detected in the associated samples. No bias to the sample results is indicated by the high CCVs. Numerous Tentatively Identified Compounds (TICs) were reported with each sample analyzed for SVOCs. Results for TICs are considered to be estimated in magnitude. In some cases, the identification of the TIC was verified against the library of SVOCs compounds associated with the method.

VALIDATION CHECKLIST SUMMARY
RIDGEWOOD BERM SOIL SAMPLING

PESTICIDES BY METHOD 8081B

REQUIREMENTS	REPORTED NO	REPORTED YES	PERFORMANCE ACCEPTABLE NO	PERFORMANCE ACCEPTABLE YES	DATA QUALIFIED - COMMENTS
GAS CHROMATOGRAPHY					
1. Holding times		X		X	
2. Detection limits		X		X	Yes, see notes
3. Blanks					
A. Laboratory Method Blanks		X	X		Yes
4. Laboratory Control Sample (LCS) %R		X		X	
5. LCS Duplicate %R and (RPD)		X	X		Aqueous only
6. Matrix Spike (MS) %R		X		X	
7. MS Duplicate (MSD) %R and (RPD)		X		X	
8. Surrogate Recoveries (%R)		X		X	
9. DDT/Endrin Breakdown Check		X		X	
10. Field Duplicate Comparison		X	X		Yes
11. Results Quantitation		X		X	Yes, See notes

%R - percent recovery RPD - relative percent difference CCV – continuing calibration verification

COMMENTS: Performance was acceptable, with the following exceptions and/or notes.

1) The soil samples for analysis of pesticides were extracted on May 8, 2024 within the required 14-day holding time. Pesticide analyses were performed by May 10, 2024 within the 40-day holding time after extraction.

2) Sample SB-5 was analyzed at a 5 times dilution, though no pesticides were detected at concentrations greater than reporting limits. No explanation was provided for the dilution, and reporting limits were raised accordingly. Several pesticides were detected in soil samples at concentrations between the method detection limit (MDL) and the reporting limit. **Due to limited accuracy in this portion of the calibration range these pesticide results are qualified as J/Estimated, as follows:**

Sample ID	Qualified Pesticides (ug/kg)
SB-1	alpha-Chlordane = 0.48 ***J***
SB-1	Chlordane = 0.48 ***J***
SB-1	Dieldrin = 0.43 ***J***
SB-1	Heptachlor epoxide = 0.35 ***J***
SB-2	beta-BHC = 0.13 ***J***
SB-2	Dieldrin = 0.12 ***J***
SB-2	Heptachlor epoxide = 0.18 ***J***
SB-4	beta-BHC = 0.14 ***J***
SB-4	Dieldrin = 0.21 ***J***
SB-4	4,4-DDD = 0.40 ***J***
SB-4	4,4-DDE = 0.14 ***J***
SB-4	Heptachlor epoxide = 0.24 ***J***
SB-5	alpha-Chlordane = 0.63 ***J***
SB-5	Chlordane = 0.63 ***J***
SB-5	4,4-DDD = 0.73 ***J***
SB-5	4,4-DDT = 0.13 ***J***
SB-6	beta-BHC = 0.15 ***J***
SB-6	Dieldrin = 0.15 ***J***
SB-6	Heptachlor epoxide = 0.30 ***J***
SB-8	beta-BHC = 0.13 ***J***
SB-8	gamma-Chlordane = 0.21 ***J***
SB-8	4,4-DDE = 0.22 ***J***
SB-8	Heptachlor epoxide = 0.16 ***J***
SB-10	beta-BHC = 0.15 ***J***
SB-10	alpha-Chlordane = 0.17 ***J***
SB-10	Chlordane = 0.17 ***J***
SB-10	4,4-DDD = 0.17 ***J***
SB-10	4,4-DDE = 0.24 ***J***
SB-10	4,4-DDT = 0.09 ***J***
SB-11	gamma-Chlordane = 0.34 ***J***
SB-14	beta-BHC = 0.09 ***J***
DUPE 1	beta-BHC = 0.13 ***J***
DUPE 1	alpha-Chlordane = 0.15 ***J***
DUPE 1	Chlordane = 0.15 ***J***
DUPE 1	4,4-DDD = 0.21 ***J***
DUPE 1	4,4-DDT = 0.27 ***J***

Sample ID	Qualified Results (ug/kg)
DUPE 2	Dieldrin = 0.28 ***J***
DUPE 2	Heptachlor epoxide = 0.34 ***J***

3) SGS provided results from one full suite solid matrix method blank in support of the pesticide analyses. Three pesticides were detected in the method blank at estimated concentrations, as follows:

Sample ID	Qualified Results (ug/kg)
Method Blank	beta-BHC = 0.088 *J*
Method Blank	Delta-BHC = 0.11 *J*
Method Blank	Endosulfan sulfate = 0.080 ***J***

Of these three, only beta-BHC was detected in any associated soil samples at concentration within 5 times that of the method blanks. **Due to potential blank contamination bias, the following beta-BHC detections in soil samples are qualified ad U/Non-detect at the concentrations reported.**

SB-2	beta-BHC = 0.13 ***U***
SB-4	beta-BHC = 0.14 ***U***
SB-6	beta-BHC = 0.15 ***U***
SB-8	beta-BHC = 0.13 ***U***
SB-10	beta-BHC = 0.15 ***U***
SB-14	beta-BHC = 0.09 ***U***
DUPE 1	beta-BHC = 0.13 ***U***

One aqueous field blank was analyzed with the soil samples. 4,4-DDT was detected in the field blank at a concentration of 0.020 ug/L. The field blank was re-analyzed out of aqueous holding time and 4,4-DDT was detected at an estimated concentration of 0.0048 ug/L. SGS attributed these detections to lab contamination, as 4,4-DDT was also detected in the aqueous method blanks at similar concentrations. Because 4,4-DDT was not detected in the solid matrix method blank, no action is taken.

4-5) SGS provided results from one full set of solid matrix laboratory control sample (LCS) analyses (identified as blank spike analyses) in support of the pesticide analyses. All LCS recoveries were within laboratory specified control limits, ranging from 70 to 94 percent. Accuracy, as demonstrated by these analyses is acceptable. Some spike recoveries were reported from the 2nd analytical signal, as precision for the primary signal was poor.

LCS and LCS duplicate results were provided in support of the aqueous analyses (field blank) with acceptable precision and accuracy. Precision between LCS and LCSD analyses in support of the field blank re-analyses was poor for nearly all pesticides. This does not impact the soil sample results.

6-7) SGS provided results from one set of batch specific matrix spike (MS) and MSD duplicate analyses in support of the pesticide analyses. MS and MSD recoveries were within prescribed control limits for all target pesticides ranging from 40 to 115 percent. Precision between MS and MSD recoveries was acceptable, with a maximum RPD between MS and MSD results of 13 percent.

8) Two surrogates (tetrachloro-m-xylene and decachlorobiphenyl) were spiked into each soil sample in support of the solid matrix pesticide analyses. Surrogates were reported from each of the two columns used in the analyses. Surrogate recoveries were in control limits ranging from 44 to 127 % percent (control limits for tcmx are = 46-145% and are 29-163% for dcbp)

9) Several sets of DDT/Endrin breakdown check standards were analyzed coinciding with each analytical batch. DDT and Endrin breakdown levels were all less than the QAPP specific level of 15 percent.

10) Sample DUPE-1 was submitted as a blind field duplicate of primary sample SB-7.
Sample DUPE-2 was submitted as a blind field duplicate of primary sample SB-11.

Results of the field duplicate sampling for pesticides that were detected in either of the primary or duplicate samples are presented below. Precision assessment is based on the RPD % between sample results. A 50 % RPD or less is used to define acceptable precision between the soil sample results. **Bold RPD values exceed this criterion. In such cases the primary and duplicate sample results are qualified as estimated.**

Pesticides	SB-7		DUP 1		RPD		SB-11		DUP 2		RPD
beta-BHC	0.00015	JB	0.00013	JB	NC		0.00043	U	0.00042	U	+/-RL
alpha-Chlordane	0.00086		0.00015	J	**141**		0.00099		0.0013		27.1
gamma-Chlordane	0.00044		0.00043	U	2.3		0.00034	J	0.00068		**66.7**
Chlordane	0.0013		0.00015	J	**159**		0.0013		0.002		42.4
Dieldrin	0.00015	J	0.00043	U	**96.6**		0.00043	U	0.00028	J	42.3
4,4'-DDD	0.00069		0.00021	J	**107**		0.00069		0.00073		5.6
4,4'-DDE	0.00057		0.00043	U	28.0		0.0055		0.0044		22.2
4,4'-DDT	0.00044		0.00027	J	47.9		0.0017		0.00093		**58.6**
Heptachlor epoxide	0.0003	J	0.00043	U	35.6		0.00043	U	0.00034	J	23.4

NC – Not calculated. Both results were qualified due to associated method blank contamination.

The value of the detection limit was used in the RPD calculation for samples when the primary or duplicate concentration was non-detect (U).

+/- RL = Results agree within a reporting limit increment and precision is determined to be acceptable.

11) No anomalies were noted with respect to results pesticide quantitation or reporting, with the following exceptions. Numerous pesticides were flagged by SGS due to an RPD of more than 40% between the dual GC columns used for quantitation and confirmation. This criterion is not addressed in the project QAPP. In almost all cases, the pesticides in question were already qualified as J/Estimated due to reporting limits and no further action is required.

VALIDATION CHECKLIST SUMMARY
RIDGEWOOD BERM SOIL SAMPLING

AROCLORS (PCBs) BY METHOD 8082A

REQUIREMENTS	REPORTED NO	REPORTED YES	PERFORMANCE ACCEPTABLE NO	PERFORMANCE ACCEPTABLE YES	DATA QUALIFIED - COMMENTS
GAS CHROMATOGRAPHY					
1. Holding times		X		X	
2. Detection limits		X		X	
3. Blanks					
A. Laboratory Method Blanks		X		X	
4. Laboratory Control Sample (LCS) %R		X		X	
5. LCS Duplicate %R and (RPD)		X		X	Aqueous only
6. Matrix Spike (MS) %R		X		X	
7. MS Duplicate (MSD) %R and (RPD)		X		X	
8. Surrogate Recoveries (%R)		X		X	
9. Field Duplicate Comparison		X		X	
10. Results Quantitation		X		X	

%R - percent recovery RPD - relative percent difference CCV – continuing calibration verification

COMMENTS: Performance was acceptable, with the following exceptions and/or notes.

1) The soil samples for analysis of Aroclors were extracted on May 8, 2024 within the required 14-day holding time. Aroclor analyses were performed by May 9, 2024, within the 40 day holding time after extraction. Extraction and analysis holding times were met.

2) No soil samples were analyzed at dilutions to quantitate any Aroclors. No Aroclor detections were reported at concentrations between the MDL and RL. Aroclor reporting limits are determined to be acceptable.

3) SGS provided results from one full suite solid matrix method blank in support of the Aroclor analyses with no Aroclors detected. Results from one aqueous matrix field blank and from one aqueous matrix method blank were provided with no PCBs detected.

4-5) SGS provided results from one set of solid matrix laboratory control sample (LCS) analyses (identified as blank spike analyses) in support of the Aroclor analyses. Aroclors 1016 and 1260 were spiked with acceptable recoveries of 95 and 98 percent. Accuracy, as demonstrated by these analyses is acceptable.

Results from one aqueous matrix set of LCS and LCSD spikes were provide in support of the field blank, with acceptable precision and accuracy.

6-7) SGS provided results from one set of batch specific matrix spike (MS) and MSD duplicate analyses in support of the Aroclor analyses. MS spikes were performed on Aroclors 1016 and 1260. MS and MSD recoveries ranged from 90 to 103 percent and were within prescribed control limits. Precision between MS and MSD results was acceptable, with a maximum RPD of 6 percent.

8) Two surrogates (tetrachloro-m-xylene and decachlorobiphenyl) were spiked into each soil sample in support of the solid matrix Aroclor analyses. Surrogate recoveries were reported from both analytical columns and ranged from 54 to 123 percent. Accuracy, as demonstrated by these analyses is acceptable.

9) Sample DUPE-1 was submitted as a blind field duplicate of primary sample SB-7. Sample DUPE-2 was submitted as a blind field duplicate of primary sample SB-11.

No Aroclors were detected in either sample of the primary or duplicate pair. Field duplicate precision is determined to be acceptable.

10) No anomalies were noted with respect to results for Aroclor quantitation or reporting.

VALIDATION CHECKLIST SUMMARY
429 DELANCY STREET – SOIL SAMPLING

TARGET ANALYTE LIST METALS – EPA METHODS 6010D AND 7471B

REQUIREMENTS	REPORTED / EVALUATED NO	REPORTED / EVALUATED YES	PERFORMANCE ACCEPTABLE NO	PERFORMANCE ACCEPTABLE YES	DATA QUALIFIED - COMMENTS
INDUCTIVLY COUPLED PLASMA / COLD VAPOR AA					
1. Holding times / Preservation		X		X	
2. Detection limits / Dilutions		X		X	
3. Blanks					
A. Calibration Blanks		X		X	
B. Method Blanks		X		X	
4. Initial and Continuing Calibration %R		X		X	
5. Interference check sample recoveries		X		X	
6. Matrix Spike (MS) %R		X	X		Yes
7. MS Duplicate (MSD) %R and RPD		X	X		Yes
8. LCS and LCSD %R and RPD		X		X	LCS only
9. Serial Dilution Analyses		X		X	
10. Field/Lab Duplicate Comparison (RPD)		X	X		Yes
11. Results Quantitation		X		X	

%R - percent recovery RPD - relative percent difference

COMMENTS: Performance was acceptable, with the following exceptions and/or notes:

1) The soil samples for analysis of TAL metals were prepared by May 8, 2024 and were analyzed within the 6 month holding times by May 9, 2024 (within 28 days for mercury). Extraction and analysis holding times were met.

2) No metal analyses were performed at dilutions. All metals results were reported to the RL. No metals detections were reported at concentrations between the MDL and RL. Reporting limits are determined to be acceptable.

3) Results from numerous sets of initial and continuing calibration blanks were provided in support of the TAL metals analyses. Results for these blanks were presented in aqueous units. No TAL metals were detected at concentrations exceeding the RL. Results from one set of solid matrix method blanks were also provided, with no metals detected at concentrations exceeding the RL.

   Result from one aqueous field blank were provided with no metals detected.

4) Results from several sets of initial and continuing calibration analyses were provided for the TAL metals. All ICV and CCV standard recoveries were within control limits of 90-110 percent. Results from high end (typically 8,000 ug/L) calibration standards were provided with acceptable recoveries between 90 and 110 percent. Results from

low end calibration standards (CRI) were also reported. CRI control limits are 80-120 percent.

5) Results from several sets of ICP interference check samples were provided in support of the TAL metals. ICP interference check sample recoveries were acceptable, within control limits of 80-20 percent.

6-7) SGS provided results from one set of solid matrix project specific (spike on soil sample SB-14) matrix spike (MS) and MSD duplicate analyses in support of the TAL metals analyses. MS and MSD recoveries are evaluated herein when the sample concentration in the native sample does not exceed the spike concentration by more than 4 times. MS and MSD control limits were 75 – 125 percent.

MS/MSD recoveries were out of control limits in the project spike as follows:

Metal spiked	MS / MSD Recovery %	Validation Action
Aluminum	186.7 / 181.3	High bias – J/Estimated
Antimony	55.7 / 57.4	Low bias – UJ/Estimated at RL
Manganese	134.3 / 94.4	High bias – J/Estimated
Iron	121.9 / 129.5	High bias – J/Estimated

8) SGS provided results from one set of solid matrix LCS analyses in support of the TAL metals is soil samples. The LCS recoveries were acceptable ranging from 90.5 to 99.0 percent (control limits of 80-120 percent).

9) SGS provide results from one set of serial dilution analyses performed on project sample SB-14. Percent differences between the initial result and the 5 times serial dilution result were less the control limit of 10 percent for all metals results where the initial result was greater than 50 times the instrument detection limit.

10) Sample DUPE-1 was submitted as a blind field duplicate of primary sample SB-7.
Sample DUPE-2 was submitted as a blind field duplicate of primary sample SB-11.

Results of the field duplicate sampling for TAL metals that were detected in either of the primary or duplicate samples are presented below. Precision assessment is based on the RPD % between sample results. A 50 % RPD or less is used to define acceptable precision between the soil sample results. **Bold RPD values exceed this criterion. In such cases the primary and duplicate sample results are qualified as estimated.**

	DUP 1	SB-7	RPD		DUP-2	SB-11	RPD
Aluminum	7590	8010	5.4		7630	8260	7.9
Antimony	2.3 U	2.3 U	+/- RL		2.1 U	2.3 U	+/- RL
Arsenic	2.5	2.7	7.7		3.2	3	6.5
Barium	24.8	33.7	30.4		31.3	36.3	14.8
Beryllium	0.29	0.31	6.7		0.3	0.35	15.4
Cadmium	0.58 U	0.58 U	+/- RL		0.53 U	0.57 U	+/- RL
Calcium	942	1710	**57.9**		2440	1840	28.0
Chromium	8.9	9.7	8.6		10.9	11.9	8.8
Cobalt	5.8 U	5.8 U	+/- RL		5.3 U	5.7 U	+/- RL
Copper	8	10.2	24.2		9.5	12.9	30.4
Iron	10600	12500	16.5		10500	13500	25.0
Lead	58.7	13.1	**127**		30.2	28.9	4.4
Magnesium	1440	1860	25.5		1550	1870	18.7
Manganese	144	255	**55.6**		211	225	6.4
Mercury	0.03 U	0.032 U	+/- RL		0.15	0.065	**79.1**
Nickel	7.7	8.6	11.0		7.6	9.1	18.0
Potassium	1200 U	1200 U	+/- RL		1100 U	1100 U	+/- RL
Selenium	2.3 U	2.3 U	+/- RL		2.1 U	2.3 U	+/- RL
Silver	0.58 U	0.58 U	+/- RL		0.53 U	0.57 U	+/- RL
Sodium	1200 U	1200 U	+/- RL		1100 U	1100 U	+/- RL
Thallium	1.2 U	1.2 U	+/- RL		1.1 U	1.1 U	+/- RL
Vanadium	21.9	20.5	6.6		17.4	20.5	16.4
Zinc	28.7	30	4.4		36.3	47.2	26.1

+/- RL = Results agree within a reporting limit increment and precision is determined to be acceptable.

11) No anomalies were noted with respect to the metals reporting.

RIDGEWOOD BERM SOIL SAMPLING

VALIDATION OF LABORATORY RESULTS
SGS LABORATORY (DAYTON, NJ)

LABORATORY REPORT # JD87833 DATED MAY 16, 2024

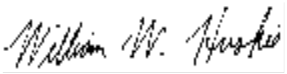
Matrix New World Engineering (Matrix) collected 14 soil samples, two field duplicate samples, and one aqueous field blank on May 3, 2024. The sample results have been validated in accordance with the Project QAPP requirements, and professional judgment of the data reviewer.

The QC information evaluated has been described in the preceding pages. Based on this review, data provided for the soil samples collected are determined to be quantitative, with the exceptions noted in the following table.

Sample Identification(s) / Analyte(s)	Data Qualifier(s)	Reason(s) For Qualification
SVOCs All Samples / SVOC detections noted pages 3, 4, and 5 of this validation report.	J/Estimated	These SVOCs were reported at concentrations between the method detection limit and the reporting limit. Accuracy in this portion of the calibration curve may be limited.
SVOCs SB-1, SB-2, SB-10, SB-11, and SB-12 / **Carbazole**	U/Non-detect at the concentrations reported	Carbazole was detected in soil samples at concentrations within five times the concentration detected in the method blank. Due to potential blank contamination bias, Carbazole detections may be the result of blank contamination bias.
SVOCs SB-11 and DUP 2 / Duplicate samples with Bolded RPDs as shown in table on page 6 of this report.	J/Estimated for detections. UJ/Estimated and non-detect at the reporting limit stated for non-detects	Poor precision between results of primary and duplicate samples. RPDs exceed 50 percent.
SVOCs All samples / Tentatively Identified Compounds (TICs)	J/Estimated	Numerous TICs were reported with each sample analyzed for SVOCs. Results for TICs are considered to be estimated in magnitude. In some cases, the identification of the TIC was verified against the library of SVOCs compounds associated with the method.
Pesticides All Samples / Pesticide detections noted on pages 8 and 9 of this validation report.	J/Estimated	These pesticides were reported at concentrations between the method detection limit and the reporting limit. Accuracy in this portion of the calibration curve may be limited.

Sample Identification(s) / Analyte(s)	Data Qualifier(s)	Reason(s) For Qualification
Pesticides SB-2, SB-4, SB-6, SB-8, SB-10, SB-14 and DUP 1 / **beta-BHC**	U/Non-detect at the concentrations reported	beta-BHC was detected in soil samples at concentrations within five times the concentration detected in the method blank. Due to potential blank contamination bias, beta-BHC detections may be the result of blank contamination bias.
Pesticides SB-7 and DUP 1 SB-11 and DUP 2 / Duplicate samples with Bolded RPDs as shown in table on page 10 of this report.	J/Estimated for detections. UJ/Estimated and non-detect at the reporting limit stated for non-detects	Poor precision between results of primary and duplicate samples. RPDs exceed 50 percent.
TAL Metals SB-7 and DUP 1 SB-11 and DUP 2 / Duplicate samples with Bolded RPDs as shown in table on page 15 of this report.	J/Estimated for detections.	Poor precision between results of primary and duplicate samples. RPDs exceed 50 percent.
TAL Metals All soil samples based on project specific matrix spike recoveries **Aluminum / High bias** **Antimony / Low bias** **Manganese / High bias** **Iron / High bias**	J/Estimated for detections "UJ/Estimated and non-detect at the reporting limits stated" for antimony NDs	MS and MSD recoveries for these metals are out of control limits. Sample results for the metals listed may be biased high or low (for antimony) as noted..

VALIDATION PERFORMED BY: William W. Huskie, Consulting Geochemist

SIGNATURE: 

DATE: June 20, 2024

RIDGEWOOD BERM SOIL SAMPLING – LEACHATE RESULTS

VALIDATION OF LABORATORY RESULTS
SGS LABORATORY (DAYTON, NJ)

LABORATORY REPORT # JD87833R DATED JUNE 10, 2024

INTRODUCTION

Matrix New World Engineering (Matrix) collected several soil samples and associated field duplicates on May 3, 2024. Samples were relinquished to an SGS Laboratory (SGS) courier, and then transported to SGS Laboratory, located in Dayton, New Jersey on the day of sampling. After initial analyses, subsequent Synthetic Precipitation Leaching Procedure (SPLP) analyses were further requested for selected samples. The validation of these SPLP analyses is described in this report.

Sample identifications and requested analyses are listed below.

Matrix Sample IDs	Laboratory Sample IDs	Analyses Requested	Analytical Methods
SB-1 SB-9	JD87833-1R JD87833-9R	SPLP Lead and SPLP Mercury	SPLP SW846 1312 leaching followed by Method 6010D analysis for lead and 7470A analysis for mercury
SB-11	JD87833-11R	SPLP Lead	SPLP SW846 1312 leaching followed by Method 6010D analysis for lead
SB-4 SB-5 SB-6	JD87833-4R JD87833-5R JD87833-6R	SPLP SVOCs Benzo(a)anthracene only	SPLP SW846 1312 for leaching followed by Method 8270E SIM
SB-14	JD87833-14R	SPLP Mercury	SPLP SW846 1312 leaching followed by Method 7470A analysis for mercury

SPLP = Synthetic Precipitation Leaching Procedure
SVOCs – Semi volatile Organic Compounds
SIM – Selected ion monitoring

Samples were received under proper chain of custody in two coolers and were properly chilled at 2.1 to 2.2 degrees Celsius

Quality Control for the soil samples and SPLP extracts is evaluated in the following checklist tables and comments. A summary of data quality for the samples analyzed is provided at the end of this validation report.

VALIDATION CHECKLIST SUMMARY
RIDGEWOOD BERM SOIL SAMPLING

SPLP SVOCs
BENZO(A)ANTHRACENE BY METHOD 8270E

REQUIREMENTS	REPORTED NO	REPORTED YES	PERFORMANCE ACCEPTABLE NO	PERFORMANCE ACCEPTABLE YES	DATA QUALIFIED - COMMENTS
GAS CHROMATOGRAPHY/ MASS SPECTROMETRY (GC/MS)					
1. Holding times		X	X		Yes
2. Detection limits		X		X	Yes – See note #2
3. Blanks					
A. Laboratory Method Blanks		X		X	
4. Laboratory Control Sample (LCS) %R		X	X		Yes
5. LCS Duplicate %R and (RPD)		X	X	X	Yes
6. Matrix Spike (MS) %R	X	X		X	
7. MS Duplicate (MSD) %R and (RPD)	X			X	
8. Surrogate Recoveries (%R)		X		X	See notes
9. Field Duplicate Comparison	X			X	
10. Results Quantitation		X		X	See notes

%R - percent recovery RPD - relative percent difference CCV – continuing calibration verification

COMMENTS: Performance was acceptable, with the following exceptions and/or notes.

1) Extractions for SPLP SVOC analyses were performed on May 27, 2024 and on May 31, 2024. The extraction holding time is 14 days from date of field collection. Therefore, all extraction times are exceeded by at least 10 days, and may compromise the sample results. SVOC analyses were performed by June 1, 2024, within the 40 day holding time after extraction. Analysis holding times were met.

2) No sample dilutions were required for analysis of SPLP SVOCs. All reporting limits are acceptable, with the following considerations. **Benzo(a)anthracene was reported at concentrations between the method detection limit (MDL) and the reporting limit in two soil sample. SGS laboratory flagged these samples with a J" qualifier. Due to limited accuracy in this portion of the calibration range, these SVOC result are qualified as J/Estimated (pending the results of the blank evaluation), as follows:**

Sample ID	**Qualified Result (ug/L)**
SB-4	Benzo(a)anthracene = 0.0785 ***J***
SB-5	Benzo(a)anthracene = 0.0483 ***J***

3) SGS provided results from two method blanks in support of the SPLP extract analyses for Benzo(a)anthracene. Results from two additional leachate blanks were also provided. No Benzo(a)anthracene was detected in any of the blanks. **Surrogate recoveries were low in some method blanks, demonstrating potential low bias for the method.**

4-5) SGS provided results from two sets of leachate matrix laboratory control sample (LCS) analyses (identified as blank spike analyses) in support of the Benzo(a)anthracene analyses. LCS recoveries were low at 23 to 29 percent (lower control limit of 33 percent). One LCS recovery was acceptable, resulting in poor precision between LCS and LCS duplicate results. **Precision and accuracy, as demonstrated by these analyses are not acceptable.**

6-7) SGS did not provide results from matrix spike (MS) or MSD duplicate analyses in support of the SVOC analyses.

8) Three surrogates were spiked into each soil sample in support of the SVOC leachate analyses. Surrogate recoveries were acceptable from run #1 analyses, ranging from 37 to 107 percent (various control limits). For run #2 of sample SB-4, two surrogate recoveries were low at 11 and 16 percent (lower control limit of 18 percent). Run #2 was a confirmation run due to low LCS and LSCD recoveries.

9) Field duplicate samples were not submitted in support of the leachate analyses.

10) No anomalies were noted with respect to results SVOC quantitation or reporting, other than instances of low bias noted and the missed extraction holding times.

VALIDATION CHECKLIST SUMMARY
RIDGEWOOD BERM SOIL SAMPLING

SPLP METALS
EPA METHODS 6010D AND 7471B

REQUIREMENTS	REPORTED / EVALUATED NO	REPORTED / EVALUATED YES	PERFORMANCE ACCEPTABLE NO	PERFORMANCE ACCEPTABLE YES	DATA QUALIFIED - COMMENTS
INDUCTIVLY COUPLED PLASMA / COLD VAPOR AA					
1. Holding times / Preservation		X		X	
2. Detection limits / Dilutions		X		X	
3. Blanks					
A. Calibration Blanks		X		X	
B. Method Blanks		X		X	
4. Initial and Continuing Calibration %R		X		X	
5. Interference check sample recoveries		X		X	
6. Matrix Spike (MS) %R		X		X	
7. MS Duplicate (MSD) %R and RPD		X		X	
8. LCS and LCSD %R and RPD		X		X	
9. Serial Dilution Analyses		X		X	
10. Field/Lab Duplicate Comparison (RPD)	X			X	
11. Results Quantitation		X		X	

%R - percent recovery RPD - relative percent difference

COMMENTS: Performance was acceptable, with the following exceptions and/or notes:

1) The soil samples for analysis of lead and mercury were prepared by May 24, 2024 (May 23, 2024 for mercury) and were analyzed within the 6 month holding times by May 30, 2024 (within 28 days for mercury on May 28, 2024). Extraction and analysis holding times were met.

2) No sample dilutions were required for lead or mercury in leachates. No metals detections were reported at concentrations between the MDL and RL.

3) Results from numerous sets of initial and continuing calibration blanks were provided in support of the lead and mercury analyses. Results for these blanks were presented in aqueous units. No metals were detected at concentrations exceeding the RL.

   One set of TCLP leachate blank results were provided with no target metals detected at concentrations exceeding the RL.

4) Results from several sets of initial and continuing calibration analyses were provided in support of the lead and mercury analyses. All ICV and CCV standard recoveries

were within control limits of 90-110 percent. Results from high end (typically 8,000 ug/L) calibration standards were provided with acceptable recoveries between 90 and 110 percent. Results from low end calibration standards were also reported and were within control limits.

5) Results from ICP interference check samples were provided in support of lead. ICP interference check sample recoveries were acceptable, within control limits of 80-20 percent.

6-7) SGS provided results from project specific (spikes on samples SB-1 and SB-14) matrix spike (MS) and MSD duplicate analyses in support of the lead and mercury analyses. MS and MSD recoveries were acceptable.

8) SGS provided results from aqueous matrix LCS analyses in support of the lead and mercury analyses. The LCS recoveries were acceptable (control limits of 80-120 percent).

SGS provided one set of TCLP LCS results. LCS recoveries were acceptable.

9) SGS provided results from one set of serial dilution analyses performed on project sample SB-1 in support of lead. Percent differences between the initial result and the 5 times serial dilution result were less the control limit of 10 percent for all metals results where the initial result was greater than 50 times the instrument detection limit,

10) Field duplicate samples were not submitted in support of the leachate analyses**.**

11) No anomalies were noted with respect to the lead or mercury reporting.

RIDGEWOOD BERM SOIL SAMPLING – LEACHATE ANALYSES

VALIDATION OF LABORATORY RESULTS
SGS LABORATORY (DAYTON, NJ)

LABORATORY REPORT # JD87833R DATED JUNE 10, 2024

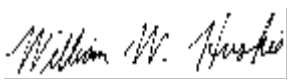
Matrix New World Engineering (Matrix) collected several soil samples and associated field duplicates on May 3, 2024. After initial analyses, subsequent Synthetic Precipitation Leaching Procedure (SPLP) analyses were further requested for selected samples. The validation of these SPLP analyses is described in this report. The sample results have been validated in accordance with the Project QAPP requirements, and professional judgment of the data reviewer.

The QC information evaluated has been described in the preceding pages. Based on this review, data provided for the soil samples collected are determined to be quantitative, with the exceptions noted in the following table.

Validation Summary

Sample Identification(s) / Analyte(s)	Data Qualifier(s)	Reason(s) For Qualification
SB-4 and SB-5 / Benzo(a)anthracene	J/Estimated	Benzo(a)anthracene was reported at concentrations between the method detection limit and the reporting limit. Accuracy in this portion of the calibration curve may be limited.
SB-4, SB-5 and SB-6 / Benzo(a)anthracene	J/Estimated	Potential low bias demonstrated by missed extraction holding timers, low LCS recoveries, and low surrogate recoveries. Identification of benzo(a)anthracene may be accurate, but the magnitude of the sample results is not determined to be reliable.

VALIDATION PERFORMED BY: William W. Huskie, Consulting Geochemist

SIGNATURE: 

DATE: June 13, 2024

APPENDIX E

Analytical Laboratory Reports

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix New World Engineering, Inc.

Ridgewood Berm Sampling, Ridgewood, NJ

23-1429

SGS Job Number: JD87833

Sampling Date: 05/03/24

Report to:

Matrix New World Engineering, Inc.
26 Columbia Turnpike
Florham Park, NJ 07932
mclelland@mnwe.com

ATTN: Melissa Clelland

Total number of pages in report: **1695**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200
Certifications: NJ(12129), NY(10983), CA, CO, CT, FL, HI, IL, IN, KY, LA (120428), MA, MD, ME, MN, NC, NH, NV, AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX (T104704234), UT, VA, WA, WV

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Test results relate only to samples analyzed.

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EHS.US.CustomerCare@sgs.com

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10.7: Prep QC MP46431: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag, Na,Tl,V,Zn 1657
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SGS North America Inc.

Sample Summary

Matrix New World Engineering, Inc.

Job No: JD87833

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL							
JD87833-1	05/03/24	08:30	KM	05/03/24	SO	Soil	SB-1
JD87833-2	05/03/24	08:35	KM	05/03/24	SO	Soil	SB-2
JD87833-3	05/03/24	08:40	KM	05/03/24	SO	Soil	SB-3
JD87833-4	05/03/24	09:00	KM	05/03/24	SO	Soil	SB-4
JD87833-5	05/03/24	09:05	KM	05/03/24	SO	Soil	SB-5
JD87833-6	05/03/24	09:10	KM	05/03/24	SO	Soil	SB-6
JD87833-7	05/03/24	09:20	KM	05/03/24	SO	Soil	SB-7
JD87833-8	05/03/24	09:30	KM	05/03/24	SO	Soil	SB-8
JD87833-9	05/03/24	09:35	KM	05/03/24	SO	Soil	SB-9
JD87833-10	05/03/24	09:50	KM	05/03/24	SO	Soil	SB-10
JD87833-11	05/03/24	10:00	KM	05/03/24	SO	Soil	SB-11
JD87833-12	05/03/24	10:15	KM	05/03/24	SO	Soil	SB-12

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Matrix New World Engineering, Inc.

Job No: JD87833

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD87833-13	05/03/24	10:30	KM	05/03/24	SO	Soil	SB-13
JD87833-14	05/03/24	10:35	KM	05/03/24	SO	Soil	SB-14
JD87833-15	05/03/24	00:00	KM	05/03/24	SO	Soil	DUPE 1
JD87833-16	05/03/24	00:00	KM	05/03/24	SO	Soil	DUPE 2
JD87833-17	05/03/24	11:00	KM	05/03/24	AQ	Field Blank Soil	FIELD BLANK
JD87833-17R	05/03/24	11:00	KM	05/03/24	AQ	Field Blank Soil	FIELD BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Matrix New World Engineering, Inc.	**Job No:**	JD87833
Site:	Ridgewood Berm Sampling, Ridgewood, NJ	**Report Date**	5/16/2024 7:38:31 AM

On 05/03/2024, 16 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 2.6 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JD87833 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Semi-volatiles By Method SW846 8270E

Matrix: AQ **Batch ID:** OP54467

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- The blank spike (BS) recovery(s) of 2,3,4,6-Tetrachlorophenol, 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, 4-Nitrophenol are outside control limits.
- OP54467-BSD for 3,3'-Dichlorobenzidine: Analytical precision exceeds in-house control limits.
- JD87833-17 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.
- OP54467-BS1 for 2,3,4,6-Tetrachlorophenol: Outside of in house control limits.
- OP54467-BS1 for 2,4-Dinitrophenol: Outside of in house control limits.
- OP54467-BS1 for 4-Nitrophenol: Outside of in house control limits.
- JD87833-17 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD87833-17 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD87833-17 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD87833-17 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD87833-17 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD87833-17 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD87833-17 for Di-n-octyl phthalate: Associated CCV outside of control limits high, sample was ND.
- OP54467-BS1 for 4,6-Dinitro-o-cresol: Outside of in house control limits.

Matrix: AQ **Batch ID:** OP54618

- The data for SW846 8270E meets quality control requirements.
- The following samples were extracted outside of holding time for method SW846 8270E: JD87833-17 Sample extracted outside the holding time. Confirmation run.
- JD87833-17: Sample extracted outside the holding time. Confirmation run.

Matrix: SO **Batch ID:** OP54460

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) JD87833-1MS, JD87833-1MSD were used as the QC samples indicated.
- Sample(s) JD87833-10, JD87833-11, JD87833-15, JD87833-2, JD87833-4, JD87833-5, JD87833-6, JD87833-8 have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank.
- JD87833-3: Dilution required due to matrix interference.
- JD87833-11: Dilution required due to matrix interference.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO **Batch ID:** OP54460

- JD87833-3 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD87833-11 for Butyl benzyl phthalate: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD87833-11 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD87833-15 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD87833-2 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD87833-2 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD87833-9 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD87833-4 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD87833-14 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD87833-15 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD87833-9 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD87833-1 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD87833-7 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD87833-14 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD87833-7 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD87833-4 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD87833-1 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD87833-16 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD87833-16 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD87833-13 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD87833-13 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD87833-12 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD87833-12 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD87833-6 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD87833-10 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD87833-5 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD87833-5 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD87833-6 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD87833-8 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD87833-10 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD87833-8 for Pentachlorophenol: Associated CCV outside of control limits high, sample was ND.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: AQ **Batch ID:** OP54399

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) JD87833-17 have compound(s) reported with a “B” qualifier, indicating analyte is found in the associated method blank.
- JD87833-17: Detection likely due to lab contamination.
- OP54399-MB1: Detection due to lab contamination.

Matrix: AQ **Batch ID:** OP54554

- All method blanks for this batch meet method specific criteria.
- The following samples were extracted outside of holding time for method SW846 8081B: JD87833-17R Sample extracted outside the holding time. Detections likely due to lab contamination.
- JD87833-17R: Sample extracted outside the holding time. Detections likely due to lab contamination.
- OP54554-MB1: Detection due to lab contamination.
- OP54554-BSD for Endosulfan sulfate: Analytical precision exceeds in-house control limits.
- OP54554-BSD for gamma-BHC (Lindane): Analytical precision exceeds in-house control limits.
- OP54554-BSD for 4,4'-DDE: Analytical precision exceeds in-house control limits.
- OP54554-BSD for Endrin ketone: Analytical precision exceeds in-house control limits.
- OP54554-BSD for Endrin aldehyde: Analytical precision exceeds in-house control limits.
- OP54554-BSD for Endrin: Analytical precision exceeds in-house control limits.
- OP54554-BSD for Endosulfan-II: Analytical precision exceeds in-house control limits.
- OP54554-BSD for Endosulfan-I: Analytical precision exceeds in-house control limits.
- OP54554-BSD for gamma-Chlordane: Analytical precision exceeds in-house control limits.
- OP54554-BSD for Dieldrin: Analytical precision exceeds in-house control limits.
- OP54554-BSD for delta-BHC: Analytical precision exceeds in-house control limits.
- OP54554-BSD for Chlordane (alpha and gamma): Analytical precision exceeds in-house control limits.
- OP54554-BSD for beta-BHC: Analytical precision exceeds in-house control limits.
- OP54554-BSD for alpha-Chlordane: Analytical precision exceeds in-house control limits.
- OP54554-BSD for alpha-BHC: Analytical precision exceeds in-house control limits.
- OP54554-BSD for 4,4'-DDT: Analytical precision exceeds in-house control limits.
- OP54554-BSD for 4,4'-DDD: Analytical precision exceeds in-house control limits.
- OP54554-BSD for Heptachlor epoxide: Analytical precision exceeds in-house control limits.
- OP54554-BSD for Aldrin: Analytical precision exceeds in-house control limits.
- OP54554-BSD for Heptachlor: Analytical precision exceeds in-house control limits.

Matrix: SO **Batch ID:** OP54452

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) JD87772-1MS, JD87772-1MSD, OP54452-MSMSD were used as the QC samples indicated.
- Sample(s) JD87833-10, JD87833-14, JD87833-15, JD87833-3, JD87833-4, JD87833-7, JD87833-8 have compound(s) reported with a “B” qualifier, indicating analyte is found in the associated method blank.
- OP54452-MB1: Detections due to lab contamination.
- JD87833-16 for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-5 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-10 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO **Batch ID:** OP54452

- JD87833-10 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-14 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-14 for beta-BHC: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-14 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-14 for 4,4'-DDT: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD87833-15 for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-15 for beta-BHC: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-8 for beta-BHC: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-16 for 4,4'-DDT: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
- JD87833-11 for 4,4'-DDT: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD87833-11 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-11 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-5 for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-15 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-4 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- OP54452-BS1 for 4,4'-DDT: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- OP54452-BS1 for Methoxychlor: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD87833-1 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-1 for 4,4'-DDT: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
- JD87833-3 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-3 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-3 for beta-BHC: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-3 for Dieldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-8 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-4 for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-8 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-4 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-4 for beta-BHC: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-4 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-7 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-7 for beta-BHC: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-7 for Dieldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-7 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-8 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-8 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JD87833-3 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: AQ **Batch ID:** OP54400

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD87833-17 for Aroclor 1260: Associated CCV outside of control limits high, sample was ND.

Matrix: SO **Batch ID:** OP54453

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD87772-2MS, JD87772-2MSD, OP54453-MSMSD were used as the QC samples indicated.
- OP54453-BS1 for Aroclor 1260: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
- OP54453-BS1 for Aroclor 1016: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP46431

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD87831-1MS, JD87831-1MSD, JD87831-1SDL were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Iron, Magnesium are outside control limits. Spike recovery indicates possible matrix interference.
- The matrix spike duplicate (MSD) recovery(s) of Calcium, Iron, Magnesium are outside control limits. Probable cause due to matrix interference.
- The serial dilution RPD(s) for Antimony, Beryllium, Cadmium, Copper, Zinc are outside control limits for sample MP46431-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP46431-SD1 for Zinc: Serial dilution indicates possible matrix interference.

Matrix: SO **Batch ID:** MP46464

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD87833-14MS, JD87833-14MSD, JD87833-14PS, JD87833-14SDL were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Aluminum, Antimony, Manganese are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- The matrix spike duplicate (MSD) recovery(s) of Antimony are outside control limits. Probable cause due to matrix interference.
- The serial dilution RPD(s) for Beryllium, Cadmium, Silver are outside control limits for sample MP46464-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method SW846 7470A

Matrix: AQ **Batch ID:** MP46448

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD87813-1FMS, JD87813-1FMSD were used as the QC samples for the metals analysis.

Metals Analysis By Method SW846 7471B

Matrix:	SO	Batch ID:	MP46496

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD87808-19MS, JD87808-19MSD were used as the QC samples for the metals analysis.

Matrix:	SO	Batch ID:	MP46497

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD87833-16MS, JD87833-16MSD were used as the QC samples for the metals analysis.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix:	SO	Batch ID:	GN54359

- Sample(s) JD87716-2DUP were used as the QC samples for the Solids, Percent analysis.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JD87833
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD87833-1	**SB-1**					
Phenol		0.118	0.090	0.023	mg/kg	SW846 8270E
Acenaphthene		0.0180 J	0.045	0.015	mg/kg	SW846 8270E
Acenaphthylene		0.0604	0.045	0.023	mg/kg	SW846 8270E
Anthracene		0.0715	0.045	0.028	mg/kg	SW846 8270E
Benzo(a)anthracene		0.233	0.045	0.013	mg/kg	SW846 8270E
Benzo(a)pyrene		0.243	0.045	0.020	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.342	0.045	0.020	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.182	0.045	0.022	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.114	0.045	0.021	mg/kg	SW846 8270E
1,1'-Biphenyl		0.0062 J	0.090	0.0061	mg/kg	SW846 8270E
Benzaldehyde		0.0172 J	0.22	0.011	mg/kg	SW846 8270E
Carbazole		0.0305 J	0.090	0.0065	mg/kg	SW846 8270E
Chrysene		0.273	0.045	0.014	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.0482	0.045	0.020	mg/kg	SW846 8270E
Di-n-butyl phthalate		0.0143 J	0.090	0.0073	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.0804 J	0.090	0.011	mg/kg	SW846 8270E
Fluoranthene		0.487	0.045	0.020	mg/kg	SW846 8270E
Fluorene		0.0243 J	0.045	0.021	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.147	0.045	0.021	mg/kg	SW846 8270E
Phenanthrene		0.243	0.045	0.015	mg/kg	SW846 8270E
Pyrene		0.495	0.045	0.014	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		42.67 J			mg/kg	
alpha-Chlordane [a]		0.00048 J	0.00053	0.000071	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.00048 J	0.00053	0.000071	mg/kg	SW846 8081B
Dieldrin		0.00043 J	0.00053	0.000085	mg/kg	SW846 8081B
4,4'-DDD		0.0015	0.00053	0.000055	mg/kg	SW846 8081B
4,4'-DDE		0.0025	0.00053	0.000063	mg/kg	SW846 8081B
4,4'-DDT [b]		0.0022	0.00053	0.000092	mg/kg	SW846 8081B
Heptachlor epoxide		0.00035 J	0.00053	0.000095	mg/kg	SW846 8081B
Aluminum		11000	69		mg/kg	SW846 6010D
Arsenic		5.1	2.7		mg/kg	SW846 6010D
Barium		53.6	27		mg/kg	SW846 6010D
Beryllium		0.40	0.27		mg/kg	SW846 6010D
Calcium		3000	690		mg/kg	SW846 6010D
Chromium		18.0	1.4		mg/kg	SW846 6010D
Copper		18.4	3.4		mg/kg	SW846 6010D
Iron		15600	69		mg/kg	SW846 6010D
Lead		169	2.7		mg/kg	SW846 6010D
Magnesium		2070	690		mg/kg	SW846 6010D
Manganese		333	2.1		mg/kg	SW846 6010D
Mercury		0.29	0.044		mg/kg	SW846 7471B
Nickel		12.6	5.5		mg/kg	SW846 6010D
Vanadium		32.1	6.9		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD87833
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Zinc		74.8	14		mg/kg	SW846 6010D
JD87833-2	**SB-2**					
Acenaphthene		0.0494	0.036	0.012	mg/kg	SW846 8270E
Acenaphthylene		0.122	0.036	0.018	mg/kg	SW846 8270E
Anthracene		0.213	0.036	0.022	mg/kg	SW846 8270E
Benzo(a)anthracene		0.519	0.036	0.010	mg/kg	SW846 8270E
Benzo(a)pyrene		0.481	0.036	0.016	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.534	0.036	0.016	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.304	0.036	0.018	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.161	0.036	0.017	mg/kg	SW846 8270E
1,1'-Biphenyl		0.0192 J	0.072	0.0050	mg/kg	SW846 8270E
Carbazole		0.0246 JB	0.072	0.0052	mg/kg	SW846 8270E
Chrysene		0.496	0.036	0.011	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.0819	0.036	0.016	mg/kg	SW846 8270E
Fluoranthene		0.956	0.036	0.016	mg/kg	SW846 8270E
Fluorene		0.192	0.036	0.017	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.250	0.036	0.017	mg/kg	SW846 8270E
2-Methylnaphthalene		0.0782	0.036	0.0082	mg/kg	SW846 8270E
Naphthalene		0.0209 J	0.036	0.010	mg/kg	SW846 8270E
Phenanthrene		0.956	0.036	0.012	mg/kg	SW846 8270E
Pyrene		1.12	0.036	0.012	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		5.57 J			mg/kg	
Aluminum		5830	54		mg/kg	SW846 6010D
Arsenic		2.4	2.2		mg/kg	SW846 6010D
Barium		24.2	22		mg/kg	SW846 6010D
Beryllium		0.24	0.22		mg/kg	SW846 6010D
Calcium		1240	540		mg/kg	SW846 6010D
Chromium		8.7	1.1		mg/kg	SW846 6010D
Copper		7.5	2.7		mg/kg	SW846 6010D
Iron		10200	54		mg/kg	SW846 6010D
Lead		13.7	2.2		mg/kg	SW846 6010D
Magnesium		1340	540		mg/kg	SW846 6010D
Manganese		164	1.6		mg/kg	SW846 6010D
Mercury		0.054	0.030		mg/kg	SW846 7471B
Nickel		6.6	4.4		mg/kg	SW846 6010D
Vanadium		16.9	5.4		mg/kg	SW846 6010D
Zinc		26.9	11		mg/kg	SW846 6010D
JD87833-3	**SB-3**					
Acenaphthene [c]		0.133	0.073	0.025	mg/kg	SW846 8270E
Acenaphthylene [c]		0.182	0.073	0.037	mg/kg	SW846 8270E
Anthracene [c]		0.539	0.073	0.045	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD87833
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzo(a)anthracene [c]		1.50	0.073	0.021	mg/kg	SW846 8270E
Benzo(a)pyrene [c]		1.46	0.073	0.033	mg/kg	SW846 8270E
Benzo(b)fluoranthene [c]		1.72	0.073	0.032	mg/kg	SW846 8270E
Benzo(g,h,i)perylene [c]		0.902	0.073	0.037	mg/kg	SW846 8270E
Benzo(k)fluoranthene [c]		0.485	0.073	0.034	mg/kg	SW846 8270E
1,1'-Biphenyl [c]		0.0142 J	0.15	0.010	mg/kg	SW846 8270E
Carbazole [c]		0.114 J	0.15	0.011	mg/kg	SW846 8270E
Chrysene [c]		1.29	0.073	0.023	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene [c]		0.230	0.073	0.032	mg/kg	SW846 8270E
Dibenzofuran [c]		0.0867 J	0.15	0.030	mg/kg	SW846 8270E
Fluoranthene [c]		3.15	0.073	0.033	mg/kg	SW846 8270E
Fluorene [c]		0.206	0.073	0.034	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene [c]		0.752	0.073	0.034	mg/kg	SW846 8270E
2-Methylnaphthalene [c]		0.0286 J	0.073	0.017	mg/kg	SW846 8270E
Naphthalene [c]		0.0345 J	0.073	0.021	mg/kg	SW846 8270E
Phenanthrene [c]		1.73	0.073	0.025	mg/kg	SW846 8270E
Pyrene [c]		3.14	0.073	0.023	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		4.16 J			mg/kg	
beta-BHC [a]		0.00013 JB	0.00042	0.000061	mg/kg	SW846 8081B
alpha-Chlordane		0.00098	0.00042	0.000056	mg/kg	SW846 8081B
gamma-Chlordane		0.00051	0.00042	0.000063	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.0015	0.00042	0.000056	mg/kg	SW846 8081B
Dieldrin [a]		0.00012 J	0.00042	0.000067	mg/kg	SW846 8081B
4,4'-DDD		0.00079	0.00042	0.000044	mg/kg	SW846 8081B
4,4'-DDE [a]		0.00045	0.00042	0.000050	mg/kg	SW846 8081B
4,4'-DDT [a]		0.0011	0.00042	0.000073	mg/kg	SW846 8081B
Heptachlor epoxide [a]		0.00018 J	0.00042	0.000075	mg/kg	SW846 8081B
Aluminum		7040	56		mg/kg	SW846 6010D
Arsenic		2.4	2.2		mg/kg	SW846 6010D
Barium		28.8	22		mg/kg	SW846 6010D
Beryllium		0.28	0.22		mg/kg	SW846 6010D
Calcium		1560	560		mg/kg	SW846 6010D
Chromium		9.4	1.1		mg/kg	SW846 6010D
Copper		9.3	2.8		mg/kg	SW846 6010D
Iron		11400	56		mg/kg	SW846 6010D
Lead		13.1	2.2		mg/kg	SW846 6010D
Magnesium		1600	560		mg/kg	SW846 6010D
Manganese		226	1.7		mg/kg	SW846 6010D
Nickel		7.9	4.5		mg/kg	SW846 6010D
Vanadium		20.2	5.6		mg/kg	SW846 6010D
Zinc		29.0	11		mg/kg	SW846 6010D
JD87833-4	**SB-4**					
Acenaphthene		0.106	0.038	0.013	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD87833
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Acenaphthylene	0.207	0.038	0.019	mg/kg	SW846 8270E
Anthracene	0.563	0.038	0.023	mg/kg	SW846 8270E
Benzo(a)anthracene	1.55	0.038	0.011	mg/kg	SW846 8270E
Benzo(a)pyrene	1.53	0.038	0.017	mg/kg	SW846 8270E
Benzo(b)fluoranthene	1.81	0.038	0.017	mg/kg	SW846 8270E
Benzo(g,h,i)perylene	0.941	0.038	0.019	mg/kg	SW846 8270E
Benzo(k)fluoranthene	0.505	0.038	0.018	mg/kg	SW846 8270E
1,1'-Biphenyl	0.0087 J	0.076	0.0052	mg/kg	SW846 8270E
Carbazole	0.0690 JB	0.076	0.0055	mg/kg	SW846 8270E
Chrysene	1.44	0.038	0.012	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene	0.247	0.038	0.017	mg/kg	SW846 8270E
Dibenzofuran	0.0509 J	0.076	0.015	mg/kg	SW846 8270E
Fluoranthene	3.22	0.038	0.017	mg/kg	SW846 8270E
Fluorene	0.163	0.038	0.017	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene	0.796	0.038	0.018	mg/kg	SW846 8270E
2-Methylnaphthalene	0.0181 J	0.038	0.0085	mg/kg	SW846 8270E
Naphthalene	0.0238 J	0.038	0.011	mg/kg	SW846 8270E
Phenanthrene	1.53	0.038	0.013	mg/kg	SW846 8270E
Pyrene	3.12	0.038	0.012	mg/kg	SW846 8270E
Total TIC, Semi-Volatile	7.61 J			mg/kg	
beta-BHC [a]	0.00014 JB	0.00042	0.000061	mg/kg	SW846 8081B
alpha-Chlordane	0.0012	0.00042	0.000057	mg/kg	SW846 8081B
gamma-Chlordane	0.00046	0.00042	0.000063	mg/kg	SW846 8081B
Chlordane (alpha and gamma)	0.0017	0.00042	0.000057	mg/kg	SW846 8081B
Dieldrin	0.00021 J	0.00042	0.000068	mg/kg	SW846 8081B
4,4'-DDD [a]	0.00040 J	0.00042	0.000044	mg/kg	SW846 8081B
4,4'-DDE [a]	0.00014 J	0.00042	0.000051	mg/kg	SW846 8081B
4,4'-DDT [a]	0.00053	0.00042	0.000074	mg/kg	SW846 8081B
Heptachlor epoxide [a]	0.00024 J	0.00042	0.000076	mg/kg	SW846 8081B
Aluminum	6940	56		mg/kg	SW846 6010D
Arsenic	2.4	2.2		mg/kg	SW846 6010D
Barium	25.8	22		mg/kg	SW846 6010D
Beryllium	0.27	0.22		mg/kg	SW846 6010D
Calcium	1220	560		mg/kg	SW846 6010D
Chromium	8.6	1.1		mg/kg	SW846 6010D
Copper	8.3	2.8		mg/kg	SW846 6010D
Iron	10900	56		mg/kg	SW846 6010D
Lead	17.2	2.2		mg/kg	SW846 6010D
Magnesium	1510	560		mg/kg	SW846 6010D
Manganese	178	1.7		mg/kg	SW846 6010D
Nickel	7.2	4.5		mg/kg	SW846 6010D
Vanadium	18.7	5.6		mg/kg	SW846 6010D
Zinc	26.9	11		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD87833
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD87833-5	**SB-5**					
Acenaphthene		0.147	0.037	0.013	mg/kg	SW846 8270E
Acenaphthylene		0.192	0.037	0.019	mg/kg	SW846 8270E
Anthracene		0.568	0.037	0.022	mg/kg	SW846 8270E
Benzo(a)anthracene		1.85	0.037	0.010	mg/kg	SW846 8270E
Benzo(a)pyrene		1.87	0.037	0.017	mg/kg	SW846 8270E
Benzo(b)fluoranthene		2.04	0.037	0.016	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		1.20	0.037	0.018	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.728	0.037	0.017	mg/kg	SW846 8270E
1,1'-Biphenyl		0.0130 J	0.073	0.0050	mg/kg	SW846 8270E
Carbazole		0.0723 JB	0.073	0.0053	mg/kg	SW846 8270E
Chrysene		1.54	0.037	0.012	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.287	0.037	0.016	mg/kg	SW846 8270E
Dibenzofuran		0.0929	0.073	0.015	mg/kg	SW846 8270E
Fluoranthene		3.68	0.18	0.082	mg/kg	SW846 8270E
Fluorene		0.166	0.037	0.017	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.974	0.037	0.017	mg/kg	SW846 8270E
2-Methylnaphthalene		0.0200 J	0.037	0.0083	mg/kg	SW846 8270E
Naphthalene		0.0286 J	0.037	0.010	mg/kg	SW846 8270E
Phenanthrene		1.42	0.037	0.012	mg/kg	SW846 8270E
Pyrene		3.41	0.18	0.059	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		9.72 J			mg/kg	
alpha-Chlordane [a]		0.00063 J	0.0021	0.00028	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.00063 J	0.0021	0.00028	mg/kg	SW846 8081B
4,4'-DDD [a]		0.00073 J	0.0021	0.00022	mg/kg	SW846 8081B
4,4'-DDT		0.0013 J	0.0021	0.00036	mg/kg	SW846 8081B
Aluminum		7830	57		mg/kg	SW846 6010D
Arsenic		2.4	2.3		mg/kg	SW846 6010D
Barium		29.2	23		mg/kg	SW846 6010D
Beryllium		0.30	0.23		mg/kg	SW846 6010D
Calcium		1450	570		mg/kg	SW846 6010D
Chromium		9.8	1.1		mg/kg	SW846 6010D
Copper		9.1	2.8		mg/kg	SW846 6010D
Iron		11900	57		mg/kg	SW846 6010D
Lead		9.8	2.3		mg/kg	SW846 6010D
Magnesium		1880	570		mg/kg	SW846 6010D
Manganese		213	1.7		mg/kg	SW846 6010D
Nickel		8.5	4.6		mg/kg	SW846 6010D
Vanadium		18.7	5.7		mg/kg	SW846 6010D
Zinc		27.3	11		mg/kg	SW846 6010D
JD87833-6	**SB-6**					
Acenaphthene		0.157	0.036	0.013	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD87833
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Acenaphthylene		0.223	0.036	0.019	mg/kg	SW846 8270E
Anthracene		0.537	0.036	0.022	mg/kg	SW846 8270E
Benzo(a)anthracene		1.58	0.036	0.010	mg/kg	SW846 8270E
Benzo(a)pyrene		1.58	0.036	0.017	mg/kg	SW846 8270E
Benzo(b)fluoranthene		1.81	0.036	0.016	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.994	0.036	0.018	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.574	0.036	0.017	mg/kg	SW846 8270E
1,1'-Biphenyl		0.0159 J	0.073	0.0050	mg/kg	SW846 8270E
Carbazole		0.102 B	0.073	0.0053	mg/kg	SW846 8270E
Chrysene		1.31	0.036	0.011	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.251	0.036	0.016	mg/kg	SW846 8270E
Dibenzofuran		0.0944	0.073	0.015	mg/kg	SW846 8270E
Fluoranthene		3.05	0.036	0.016	mg/kg	SW846 8270E
Fluorene		0.198	0.036	0.017	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.826	0.036	0.017	mg/kg	SW846 8270E
2-Methylnaphthalene		0.0251 J	0.036	0.0082	mg/kg	SW846 8270E
Naphthalene		0.0401	0.036	0.010	mg/kg	SW846 8270E
Phenanthrene		1.47	0.036	0.012	mg/kg	SW846 8270E
Pyrene		3.01	0.036	0.012	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		7.23 J			mg/kg	
Aluminum		7860	56		mg/kg	SW846 6010D
Arsenic		2.5	2.3		mg/kg	SW846 6010D
Barium		29.8	23		mg/kg	SW846 6010D
Beryllium		0.29	0.23		mg/kg	SW846 6010D
Calcium		1530	560		mg/kg	SW846 6010D
Chromium		16.0	1.1		mg/kg	SW846 6010D
Copper		60.6	2.8		mg/kg	SW846 6010D
Iron		12400	56		mg/kg	SW846 6010D
Lead		13.6	2.3		mg/kg	SW846 6010D
Magnesium		2740	560		mg/kg	SW846 6010D
Manganese		200	1.7		mg/kg	SW846 6010D
Nickel		9.7	4.5		mg/kg	SW846 6010D
Vanadium		20.8	5.6		mg/kg	SW846 6010D
Zinc		30.4	11		mg/kg	SW846 6010D
JD87833-7	**SB-7**					
Acenaphthene		0.104	0.036	0.012	mg/kg	SW846 8270E
Acenaphthylene		0.345	0.036	0.018	mg/kg	SW846 8270E
Anthracene		0.495	0.036	0.022	mg/kg	SW846 8270E
Benzo(a)anthracene		1.38	0.036	0.010	mg/kg	SW846 8270E
Benzo(a)pyrene		1.56	0.036	0.016	mg/kg	SW846 8270E
Benzo(b)fluoranthene		1.64	0.036	0.016	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		1.00	0.036	0.018	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.603	0.036	0.017	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD87833
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
1,1'-Biphenyl		0.0126 J	0.071	0.0049	mg/kg	SW846 8270E
Carbazole		0.0724	0.071	0.0052	mg/kg	SW846 8270E
Chrysene		1.25	0.036	0.011	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.261	0.036	0.016	mg/kg	SW846 8270E
Dibenzofuran		0.0663 J	0.071	0.015	mg/kg	SW846 8270E
Fluoranthene		2.39	0.036	0.016	mg/kg	SW846 8270E
Fluorene		0.167	0.036	0.016	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.822	0.036	0.017	mg/kg	SW846 8270E
2-Methylnaphthalene		0.0265 J	0.036	0.0081	mg/kg	SW846 8270E
Naphthalene		0.0383	0.036	0.010	mg/kg	SW846 8270E
Phenanthrene		1.05	0.036	0.012	mg/kg	SW846 8270E
Pyrene		2.64	0.036	0.011	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		7.44 J			mg/kg	
beta-BHC [a]		0.00015 JB	0.00044	0.000064	mg/kg	SW846 8081B
alpha-Chlordane		0.00086	0.00044	0.000059	mg/kg	SW846 8081B
gamma-Chlordane		0.00044	0.00044	0.000066	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.0013	0.00044	0.000059	mg/kg	SW846 8081B
Dieldrin [a]		0.00015 J	0.00044	0.000070	mg/kg	SW846 8081B
4,4'-DDD		0.00069	0.00044	0.000046	mg/kg	SW846 8081B
4,4'-DDE		0.00057	0.00044	0.000053	mg/kg	SW846 8081B
4,4'-DDT [a]		0.00044	0.00044	0.000077	mg/kg	SW846 8081B
Heptachlor epoxide [a]		0.00030 J	0.00044	0.000079	mg/kg	SW846 8081B
Aluminum		8010	58		mg/kg	SW846 6010D
Arsenic		2.7	2.3		mg/kg	SW846 6010D
Barium		33.7	23		mg/kg	SW846 6010D
Beryllium		0.31	0.23		mg/kg	SW846 6010D
Calcium		1710	580		mg/kg	SW846 6010D
Chromium		9.7	1.2		mg/kg	SW846 6010D
Copper		10.2	2.9		mg/kg	SW846 6010D
Iron		12500	58		mg/kg	SW846 6010D
Lead		13.1	2.3		mg/kg	SW846 6010D
Magnesium		1860	580		mg/kg	SW846 6010D
Manganese		255	1.7		mg/kg	SW846 6010D
Nickel		8.6	4.6		mg/kg	SW846 6010D
Vanadium		20.5	5.8		mg/kg	SW846 6010D
Zinc		30.0	12		mg/kg	SW846 6010D
JD87833-8	**SB-8**					
Acenaphthene		0.0510	0.036	0.012	mg/kg	SW846 8270E
Acenaphthylene		0.132	0.036	0.018	mg/kg	SW846 8270E
Anthracene		0.230	0.036	0.022	mg/kg	SW846 8270E
Benzo(a)anthracene		0.924	0.036	0.010	mg/kg	SW846 8270E
Benzo(a)pyrene		0.948	0.036	0.016	mg/kg	SW846 8270E
Benzo(b)fluoranthene		1.06	0.036	0.016	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD87833
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzo(g,h,i)perylene		0.607	0.036	0.018	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.418	0.036	0.017	mg/kg	SW846 8270E
1,1'-Biphenyl		0.0062 J	0.072	0.0049	mg/kg	SW846 8270E
Carbazole		0.0342 JB	0.072	0.0052	mg/kg	SW846 8270E
Chrysene		0.862	0.036	0.011	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.159	0.036	0.016	mg/kg	SW846 8270E
Dibenzofuran		0.0241 J	0.072	0.015	mg/kg	SW846 8270E
Fluoranthene		1.77	0.036	0.016	mg/kg	SW846 8270E
Fluorene		0.0679	0.036	0.017	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.510	0.036	0.017	mg/kg	SW846 8270E
2-Methylnaphthalene		0.0103 J	0.036	0.0082	mg/kg	SW846 8270E
Naphthalene		0.0171 J	0.036	0.010	mg/kg	SW846 8270E
Phenanthrene		0.637	0.036	0.012	mg/kg	SW846 8270E
Pyrene		1.73	0.036	0.012	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		2.66 J			mg/kg	
beta-BHC [a]		0.00013 JB	0.00041	0.000060	mg/kg	SW846 8081B
alpha-Chlordane		0.00055	0.00041	0.000056	mg/kg	SW846 8081B
gamma-Chlordane [a]		0.00021 J	0.00041	0.000062	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.00076	0.00041	0.000056	mg/kg	SW846 8081B
4,4'-DDD		0.00050	0.00041	0.000043	mg/kg	SW846 8081B
4,4'-DDE [a]		0.00022 J	0.00041	0.000050	mg/kg	SW846 8081B
4,4'-DDT [a]		0.00045	0.00041	0.000072	mg/kg	SW846 8081B
Heptachlor epoxide [a]		0.00016 J	0.00041	0.000075	mg/kg	SW846 8081B
Aluminum		6880	55		mg/kg	SW846 6010D
Arsenic		2.6	2.2		mg/kg	SW846 6010D
Barium		24.1	22		mg/kg	SW846 6010D
Beryllium		0.29	0.22		mg/kg	SW846 6010D
Calcium		1120	550		mg/kg	SW846 6010D
Chromium		8.5	1.1		mg/kg	SW846 6010D
Copper		7.9	2.7		mg/kg	SW846 6010D
Iron		11000	55		mg/kg	SW846 6010D
Lead		10.2	2.2		mg/kg	SW846 6010D
Magnesium		1590	550		mg/kg	SW846 6010D
Manganese		197	1.6		mg/kg	SW846 6010D
Nickel		7.6	4.4		mg/kg	SW846 6010D
Vanadium		16.9	5.5		mg/kg	SW846 6010D
Zinc		25.8	11		mg/kg	SW846 6010D
JD87833-9	**SB-9**					
3&4-Methylphenol		0.195	0.080	0.033	mg/kg	SW846 8270E
Acenaphthene		0.0435	0.040	0.014	mg/kg	SW846 8270E
Acenaphthylene		0.101	0.040	0.020	mg/kg	SW846 8270E
Acetophenone		0.0230 J	0.20	0.0086	mg/kg	SW846 8270E
Anthracene		0.159	0.040	0.024	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD87833
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzo(a)anthracene		0.415	0.040	0.011	mg/kg	SW846 8270E
Benzo(a)pyrene		0.480	0.040	0.018	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.587	0.040	0.018	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.310	0.040	0.020	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.154	0.040	0.019	mg/kg	SW846 8270E
1,1'-Biphenyl		0.0098 J	0.080	0.0055	mg/kg	SW846 8270E
Benzaldehyde		0.0232 J	0.20	0.0099	mg/kg	SW846 8270E
Carbazole		0.0400 J	0.080	0.0058	mg/kg	SW846 8270E
Chrysene		0.453	0.040	0.013	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.0799	0.040	0.018	mg/kg	SW846 8270E
Dibenzofuran		0.0241 J	0.080	0.016	mg/kg	SW846 8270E
Di-n-butyl phthalate		0.0108 J	0.080	0.0065	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.0439 J	0.080	0.0094	mg/kg	SW846 8270E
Fluoranthene		0.888	0.040	0.018	mg/kg	SW846 8270E
Fluorene		0.0546	0.040	0.018	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.263	0.040	0.019	mg/kg	SW846 8270E
2-Methylnaphthalene		0.0152 J	0.040	0.0090	mg/kg	SW846 8270E
Naphthalene		0.0239 J	0.040	0.011	mg/kg	SW846 8270E
Phenanthrene		0.459	0.040	0.013	mg/kg	SW846 8270E
Pyrene		0.896	0.040	0.013	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		29.3 J			mg/kg	
Aluminum		11300	63		mg/kg	SW846 6010D
Arsenic		4.8	2.5		mg/kg	SW846 6010D
Barium		54.4	25		mg/kg	SW846 6010D
Beryllium		0.43	0.25		mg/kg	SW846 6010D
Calcium		1760	630		mg/kg	SW846 6010D
Chromium		14.2	1.3		mg/kg	SW846 6010D
Copper		15.8	3.2		mg/kg	SW846 6010D
Iron		14200	63		mg/kg	SW846 6010D
Lead		71.1	2.5		mg/kg	SW846 6010D
Magnesium		1920	630		mg/kg	SW846 6010D
Manganese		314	1.9		mg/kg	SW846 6010D
Mercury		0.19	0.032		mg/kg	SW846 7471B
Nickel		11.3	5.1		mg/kg	SW846 6010D
Vanadium		25.2	6.3		mg/kg	SW846 6010D
Zinc		67.5	13		mg/kg	SW846 6010D
JD87833-10	**SB-10**					
3&4-Methylphenol		0.0476 J	0.078	0.032	mg/kg	SW846 8270E
Acenaphthylene		0.0304 J	0.039	0.020	mg/kg	SW846 8270E
Benzo(a)anthracene		0.0822	0.039	0.011	mg/kg	SW846 8270E
Benzo(a)pyrene		0.0861	0.039	0.018	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.0943	0.039	0.017	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.0626	0.039	0.019	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD87833
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzo(k)fluoranthene		0.0387 J	0.039	0.018	mg/kg	SW846 8270E
Carbazole		0.0072 JB	0.078	0.0056	mg/kg	SW846 8270E
Chrysene		0.0664	0.039	0.012	mg/kg	SW846 8270E
Fluoranthene		0.143	0.039	0.017	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.0507	0.039	0.018	mg/kg	SW846 8270E
Phenanthrene		0.0524	0.039	0.013	mg/kg	SW846 8270E
Pyrene		0.142	0.039	0.012	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		8.83 J			mg/kg	
beta-BHC		0.00015 JB	0.00043	0.000063	mg/kg	SW846 8081B
alpha-Chlordane [a]		0.00017 J	0.00043	0.000058	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.00017 J	0.00043	0.000058	mg/kg	SW846 8081B
4,4'-DDD		0.00017 J	0.00043	0.000045	mg/kg	SW846 8081B
4,4'-DDE		0.00024 J	0.00043	0.000052	mg/kg	SW846 8081B
4,4'-DDT [a]		0.000090 J	0.00043	0.000076	mg/kg	SW846 8081B
Aluminum		14000	58		mg/kg	SW846 6010D
Arsenic		4.3	2.3		mg/kg	SW846 6010D
Barium		37.8	23		mg/kg	SW846 6010D
Beryllium		0.45	0.23		mg/kg	SW846 6010D
Calcium		817	580		mg/kg	SW846 6010D
Chromium		13.8	1.2		mg/kg	SW846 6010D
Copper		6.8	2.9		mg/kg	SW846 6010D
Iron		14500	58		mg/kg	SW846 6010D
Lead		17.7	2.3		mg/kg	SW846 6010D
Magnesium		1770	580		mg/kg	SW846 6010D
Manganese		201	1.7		mg/kg	SW846 6010D
Mercury		0.041	0.033		mg/kg	SW846 7471B
Nickel		10.5	4.7		mg/kg	SW846 6010D
Vanadium		22.6	5.8		mg/kg	SW846 6010D
Zinc		35.2	12		mg/kg	SW846 6010D
JD87833-11	**SB-11**					
Benzo(a)anthracene [c]		0.0914	0.075	0.021	mg/kg	SW846 8270E
Benzo(a)pyrene [c]		0.0985	0.075	0.034	mg/kg	SW846 8270E
Benzo(b)fluoranthene [c]		0.116	0.075	0.033	mg/kg	SW846 8270E
Benzo(g,h,i)perylene [c]		0.0842	0.075	0.038	mg/kg	SW846 8270E
Benzo(k)fluoranthene [c]		0.0412 J	0.075	0.035	mg/kg	SW846 8270E
Butyl benzyl phthalate [d]		0.0365 J	0.15	0.018	mg/kg	SW846 8270E
Carbazole [c]		0.0122 JB	0.15	0.011	mg/kg	SW846 8270E
Chrysene [c]		0.101	0.075	0.024	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate [c]		0.0281 J	0.15	0.018	mg/kg	SW846 8270E
Fluoranthene [c]		0.167	0.075	0.034	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene [c]		0.0582 J	0.075	0.035	mg/kg	SW846 8270E
Phenanthrene [c]		0.0899	0.075	0.025	mg/kg	SW846 8270E
Pyrene [c]		0.176	0.075	0.024	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD87833
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Total TIC, Semi-Volatile		2.1 J			mg/kg	
alpha-Chlordane [a]		0.00099	0.00043	0.000058	mg/kg	SW846 8081B
gamma-Chlordane [a]		0.00034 J	0.00043	0.000065	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.0013	0.00043	0.000058	mg/kg	SW846 8081B
4,4'-DDD		0.00069	0.00043	0.000045	mg/kg	SW846 8081B
4,4'-DDE		0.0055	0.00043	0.000052	mg/kg	SW846 8081B
4,4'-DDT [e]		0.0017	0.00043	0.000075	mg/kg	SW846 8081B
Aluminum		8260	57		mg/kg	SW846 6010D
Arsenic		3.0	2.3		mg/kg	SW846 6010D
Barium		36.3	23		mg/kg	SW846 6010D
Beryllium		0.35	0.23		mg/kg	SW846 6010D
Calcium		1840	570		mg/kg	SW846 6010D
Chromium		11.9	1.1		mg/kg	SW846 6010D
Copper		12.9	2.9		mg/kg	SW846 6010D
Iron		13500	57		mg/kg	SW846 6010D
Lead		28.9	2.3		mg/kg	SW846 6010D
Magnesium		1870	570		mg/kg	SW846 6010D
Manganese		225	1.7		mg/kg	SW846 6010D
Mercury		0.065	0.030		mg/kg	SW846 7471B
Nickel		9.1	4.6		mg/kg	SW846 6010D
Vanadium		20.5	5.7		mg/kg	SW846 6010D
Zinc		47.2	11		mg/kg	SW846 6010D
JD87833-12	**SB-12**					
3&4-Methylphenol		0.0896	0.078	0.032	mg/kg	SW846 8270E
Benzo(a)anthracene		0.0166 J	0.039	0.011	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.0229 J	0.039	0.017	mg/kg	SW846 8270E
Benzaldehyde		0.0103 J	0.19	0.0096	mg/kg	SW846 8270E
Chrysene		0.0180 J	0.039	0.012	mg/kg	SW846 8270E
Fluoranthene		0.0286 J	0.039	0.017	mg/kg	SW846 8270E
Phenanthrene		0.0163 J	0.039	0.013	mg/kg	SW846 8270E
Pyrene		0.0284 J	0.039	0.012	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		14.51 J			mg/kg	
Aluminum		16600	60		mg/kg	SW846 6010D
Arsenic		5.1	2.4		mg/kg	SW846 6010D
Barium		46.4	24		mg/kg	SW846 6010D
Beryllium		0.58	0.24		mg/kg	SW846 6010D
Chromium		15.6	1.2		mg/kg	SW846 6010D
Copper		7.6	3.0		mg/kg	SW846 6010D
Iron		17000	60		mg/kg	SW846 6010D
Lead		21.1	2.4		mg/kg	SW846 6010D
Magnesium		2110	600		mg/kg	SW846 6010D
Manganese		391	1.8		mg/kg	SW846 6010D
Mercury		0.072	0.037		mg/kg	SW846 7471B

Summary of Hits

Job Number: JD87833
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Nickel		12.3	4.8		mg/kg	SW846 6010D
Vanadium		25.8	6.0		mg/kg	SW846 6010D
Zinc		43.0	12		mg/kg	SW846 6010D
JD87833-13	**SB-13**					
Benzo(a)anthracene		0.0370 J	0.039	0.011	mg/kg	SW846 8270E
Benzo(a)pyrene		0.0404	0.039	0.018	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.0492	0.039	0.017	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.0329 J	0.039	0.019	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.0183 J	0.039	0.018	mg/kg	SW846 8270E
Carbazole		0.0065 J	0.078	0.0056	mg/kg	SW846 8270E
Chrysene		0.0394	0.039	0.012	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.0107 J	0.078	0.0091	mg/kg	SW846 8270E
Fluoranthene		0.0789	0.039	0.017	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.0272 J	0.039	0.018	mg/kg	SW846 8270E
Phenanthrene		0.0412	0.039	0.013	mg/kg	SW846 8270E
Pyrene		0.0759	0.039	0.012	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		11.42 J			mg/kg	
Aluminum		18600	57		mg/kg	SW846 6010D
Arsenic		5.4	2.3		mg/kg	SW846 6010D
Barium		45.8	23		mg/kg	SW846 6010D
Beryllium		0.50	0.23		mg/kg	SW846 6010D
Calcium		905	570		mg/kg	SW846 6010D
Chromium		18.9	1.1		mg/kg	SW846 6010D
Cobalt		5.7	5.7		mg/kg	SW846 6010D
Copper		8.6	2.9		mg/kg	SW846 6010D
Iron		20200	57		mg/kg	SW846 6010D
Lead		16.0	2.3		mg/kg	SW846 6010D
Magnesium		2680	570		mg/kg	SW846 6010D
Manganese		257	1.7		mg/kg	SW846 6010D
Mercury		0.036	0.031		mg/kg	SW846 7471B
Nickel		13.5	4.6		mg/kg	SW846 6010D
Vanadium		31.5	5.7		mg/kg	SW846 6010D
Zinc		44.0	11		mg/kg	SW846 6010D
JD87833-14	**SB-14**					
Acenaphthene		0.0420	0.037	0.013	mg/kg	SW846 8270E
Acenaphthylene		0.0869	0.037	0.019	mg/kg	SW846 8270E
Anthracene		0.150	0.037	0.022	mg/kg	SW846 8270E
Benzo(a)anthracene		0.497	0.037	0.010	mg/kg	SW846 8270E
Benzo(a)pyrene		0.520	0.037	0.017	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.560	0.037	0.016	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.355	0.037	0.018	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD87833
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzo(k)fluoranthene		0.227	0.037	0.017	mg/kg	SW846 8270E
1,1'-Biphenyl		0.0066 J	0.073	0.0050	mg/kg	SW846 8270E
Carbazole		0.0465 J	0.073	0.0053	mg/kg	SW846 8270E
Chrysene		0.481	0.037	0.011	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.0892	0.037	0.016	mg/kg	SW846 8270E
Dibenzofuran		0.0172 J	0.073	0.015	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.0152 J	0.073	0.0085	mg/kg	SW846 8270E
Fluoranthene		0.973	0.037	0.016	mg/kg	SW846 8270E
Fluorene		0.0452	0.037	0.017	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.289	0.037	0.017	mg/kg	SW846 8270E
Naphthalene		0.0109 J	0.037	0.010	mg/kg	SW846 8270E
Phenanthrene		0.492	0.037	0.012	mg/kg	SW846 8270E
Pyrene		0.974	0.037	0.012	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		8.36 J			mg/kg	
beta-BHC [a]		0.000090 JB	0.00042	0.000060	mg/kg	SW846 8081B
alpha-Chlordane [a]		0.0044	0.00042	0.000056	mg/kg	SW846 8081B
gamma-Chlordane		0.0026	0.00042	0.000062	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.0069	0.00042	0.000056	mg/kg	SW846 8081B
Dieldrin		0.00061	0.00042	0.000067	mg/kg	SW846 8081B
4,4'-DDD		0.0040	0.00042	0.000044	mg/kg	SW846 8081B
4,4'-DDE		0.0090	0.00042	0.000050	mg/kg	SW846 8081B
4,4'-DDT [e]		0.0029	0.00042	0.000073	mg/kg	SW846 8081B
Heptachlor epoxide [a]		0.00076	0.00042	0.000075	mg/kg	SW846 8081B
Aluminum		7700	54		mg/kg	SW846 6010D
Arsenic		3.8	2.1		mg/kg	SW846 6010D
Barium		33.0	21		mg/kg	SW846 6010D
Beryllium		0.29	0.21		mg/kg	SW846 6010D
Calcium		1770	540		mg/kg	SW846 6010D
Chromium		10.2	1.1		mg/kg	SW846 6010D
Copper		10.9	2.7		mg/kg	SW846 6010D
Iron		11200	54		mg/kg	SW846 6010D
Lead		26.5	2.1		mg/kg	SW846 6010D
Magnesium		1640	540		mg/kg	SW846 6010D
Manganese		225	1.6		mg/kg	SW846 6010D
Mercury		0.17	0.032		mg/kg	SW846 7471B
Nickel		8.1	4.3		mg/kg	SW846 6010D
Vanadium		17.8	5.4		mg/kg	SW846 6010D
Zinc		42.3	11		mg/kg	SW846 6010D
JD87833-15	**DUPE 1**					
Acenaphthene		0.115	0.035	0.012	mg/kg	SW846 8270E
Acenaphthylene		0.285	0.035	0.018	mg/kg	SW846 8270E
Anthracene		0.566	0.035	0.021	mg/kg	SW846 8270E
Benzo(a)anthracene		1.82	0.035	0.0098	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD87833
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzo(a)pyrene		1.96	0.035	0.016	mg/kg	SW846 8270E
Benzo(b)fluoranthene		2.28	0.035	0.015	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		1.23	0.035	0.017	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.710	0.035	0.016	mg/kg	SW846 8270E
1,1'-Biphenyl		0.0096 J	0.069	0.0048	mg/kg	SW846 8270E
Carbazole		0.0815 B	0.069	0.0050	mg/kg	SW846 8270E
Chrysene		1.68	0.035	0.011	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.327	0.035	0.015	mg/kg	SW846 8270E
Dibenzofuran		0.0621 J	0.069	0.014	mg/kg	SW846 8270E
Fluoranthene		3.53	0.17	0.077	mg/kg	SW846 8270E
Fluorene		0.155	0.035	0.016	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		1.04	0.035	0.016	mg/kg	SW846 8270E
2-Methylnaphthalene		0.0189 J	0.035	0.0078	mg/kg	SW846 8270E
Naphthalene		0.0322 J	0.035	0.0098	mg/kg	SW846 8270E
Phenanthrene		1.54	0.035	0.012	mg/kg	SW846 8270E
Pyrene		3.35	0.035	0.011	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		8.12 J			mg/kg	
beta-BHC [a]		0.00013 JB	0.00043	0.000063	mg/kg	SW846 8081B
alpha-Chlordane		0.00015 J	0.00043	0.000058	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.00015 J	0.00043	0.000058	mg/kg	SW846 8081B
4,4'-DDD [a]		0.00021 J	0.00043	0.000045	mg/kg	SW846 8081B
4,4'-DDT [a]		0.00027 J	0.00043	0.000075	mg/kg	SW846 8081B
Aluminum		7590	58		mg/kg	SW846 6010D
Arsenic		2.5	2.3		mg/kg	SW846 6010D
Barium		24.8	23		mg/kg	SW846 6010D
Beryllium		0.29	0.23		mg/kg	SW846 6010D
Calcium		942	580		mg/kg	SW846 6010D
Chromium		8.9	1.2		mg/kg	SW846 6010D
Copper		8.0	2.9		mg/kg	SW846 6010D
Iron		10600	58		mg/kg	SW846 6010D
Lead		58.7	2.3		mg/kg	SW846 6010D
Magnesium		1440	580		mg/kg	SW846 6010D
Manganese		144	1.7		mg/kg	SW846 6010D
Nickel		7.7	4.6		mg/kg	SW846 6010D
Vanadium		21.9	5.8		mg/kg	SW846 6010D
Zinc		28.7	12		mg/kg	SW846 6010D
JD87833-16	**DUPE 2**					
Acenaphthene		0.0400	0.036	0.012	mg/kg	SW846 8270E
Acenaphthylene		0.192	0.036	0.018	mg/kg	SW846 8270E
Anthracene		0.250	0.036	0.022	mg/kg	SW846 8270E
Benzo(a)anthracene		0.988	0.036	0.010	mg/kg	SW846 8270E
Benzo(a)pyrene		1.01	0.036	0.016	mg/kg	SW846 8270E
Benzo(b)fluoranthene		1.26	0.036	0.016	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD87833
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzo(g,h,i)perylene		0.624	0.036	0.018	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.329	0.036	0.017	mg/kg	SW846 8270E
1,1'-Biphenyl		0.0077 J	0.072	0.0049	mg/kg	SW846 8270E
Benzaldehyde		0.0092 J	0.18	0.0089	mg/kg	SW846 8270E
Carbazole		0.0416 J	0.072	0.0052	mg/kg	SW846 8270E
Chrysene		0.959	0.036	0.011	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.175	0.036	0.016	mg/kg	SW846 8270E
Dibenzofuran		0.0251 J	0.072	0.015	mg/kg	SW846 8270E
Fluoranthene		1.65	0.036	0.016	mg/kg	SW846 8270E
Fluorene		0.0613	0.036	0.017	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.535	0.036	0.017	mg/kg	SW846 8270E
2-Methylnaphthalene		0.0157 J	0.036	0.0081	mg/kg	SW846 8270E
Naphthalene		0.0216 J	0.036	0.010	mg/kg	SW846 8270E
Phenanthrene		0.572	0.036	0.012	mg/kg	SW846 8270E
Pyrene		1.66	0.036	0.012	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		8.85 J			mg/kg	
alpha-Chlordane		0.0013	0.00042	0.000057	mg/kg	SW846 8081B
gamma-Chlordane		0.00068	0.00042	0.000063	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.0020	0.00042	0.000057	mg/kg	SW846 8081B
Dieldrin		0.00028 J	0.00042	0.000067	mg/kg	SW846 8081B
4,4'-DDD [a]		0.00073	0.00042	0.000044	mg/kg	SW846 8081B
4,4'-DDE		0.0044	0.00042	0.000050	mg/kg	SW846 8081B
4,4'-DDT [b]		0.00093	0.00042	0.000073	mg/kg	SW846 8081B
Heptachlor epoxide		0.00034 J	0.00042	0.000075	mg/kg	SW846 8081B
Aluminum		7630	53		mg/kg	SW846 6010D
Arsenic		3.2	2.1		mg/kg	SW846 6010D
Barium		31.3	21		mg/kg	SW846 6010D
Beryllium		0.30	0.21		mg/kg	SW846 6010D
Calcium		2440	530		mg/kg	SW846 6010D
Chromium		10.9	1.1		mg/kg	SW846 6010D
Copper		9.5	2.6		mg/kg	SW846 6010D
Iron		10500	53		mg/kg	SW846 6010D
Lead		30.2	2.1		mg/kg	SW846 6010D
Magnesium		1550	530		mg/kg	SW846 6010D
Manganese		211	1.6		mg/kg	SW846 6010D
Mercury		0.15	0.032		mg/kg	SW846 7471B
Nickel		7.6	4.2		mg/kg	SW846 6010D
Vanadium		17.4	5.3		mg/kg	SW846 6010D
Zinc		36.3	11		mg/kg	SW846 6010D
JD87833-17	**FIELD BLANK**					
Total TIC, Semi-Volatile		7.8 J			ug/l	
4,4'-DDT [f]		0.020 B	0.0080	0.0055	ug/l	SW846 8081B

Summary of Hits

Job Number: JD87833
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD87833-17R	**FIELD BLANK**					
4,4'-DDT [g]		0.0048 J	0.0067	0.0046	ug/l	SW846 8081B

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
(c) Dilution required due to matrix interference.
(d) Dilution required due to matrix interference. Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
(e) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
(f) Detection likely due to lab contamination.
(g) Sample extracted outside the holding time. Detections likely due to lab contamination.

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-1		
Lab Sample ID:	JD87833-1	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	71.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ6538.D	1	05/10/24 00:16	RS	05/09/24 10:55	OP54460	ECJ297
Run #2							

	Initial Weight	Final Volume
Run #1	31.2 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.090	0.022	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.22	0.028	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.22	0.038	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.22	0.080	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.22	0.17	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.22	0.048	mg/kg	
95-48-7	2-Methylphenol	ND	0.090	0.029	mg/kg	
	3&4-Methylphenol	ND	0.090	0.037	mg/kg	
88-75-5	2-Nitrophenol	ND	0.22	0.030	mg/kg	
100-02-7	4-Nitrophenol	ND	0.45	0.12	mg/kg	
87-86-5	Pentachlorophenol [a]	ND	0.18	0.042	mg/kg	
108-95-2	Phenol	0.118	0.090	0.023	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.22	0.030	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.22	0.034	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.22	0.027	mg/kg	
83-32-9	Acenaphthene	0.0180	0.045	0.015	mg/kg	J
208-96-8	Acenaphthylene	0.0604	0.045	0.023	mg/kg	
98-86-2	Acetophenone	ND	0.22	0.0097	mg/kg	
120-12-7	Anthracene	0.0715	0.045	0.028	mg/kg	
1912-24-9	Atrazine	ND	0.090	0.019	mg/kg	
56-55-3	Benzo(a)anthracene	0.233	0.045	0.013	mg/kg	
50-32-8	Benzo(a)pyrene	0.243	0.045	0.020	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.342	0.045	0.020	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.182	0.045	0.022	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.114	0.045	0.021	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.090	0.017	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.090	0.011	mg/kg	
92-52-4	1,1'-Biphenyl	0.0062	0.090	0.0061	mg/kg	J
100-52-7	Benzaldehyde	0.0172	0.22	0.011	mg/kg	J
91-58-7	2-Chloronaphthalene	ND	0.090	0.011	mg/kg	
106-47-8	4-Chloroaniline	ND	0.22	0.016	mg/kg	
86-74-8	Carbazole	0.0305	0.090	0.0065	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1		
Lab Sample ID:	JD87833-1	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	71.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.090	0.018	mg/kg	
218-01-9	Chrysene	0.273	0.045	0.014	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.090	0.0096	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.090	0.019	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.090	0.016	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.090	0.015	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.045	0.014	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.045	0.023	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.090	0.037	mg/kg	
123-91-1	1,4-Dioxane	ND	0.045	0.030	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0482	0.045	0.020	mg/kg	
132-64-9	Dibenzofuran	ND	0.090	0.018	mg/kg	
84-74-2	Di-n-butyl phthalate	0.0143	0.090	0.0073	mg/kg	J
117-84-0	Di-n-octyl phthalate	ND	0.090	0.011	mg/kg	
84-66-2	Diethyl phthalate	ND	0.090	0.0096	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.090	0.0080	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0804	0.090	0.011	mg/kg	J
206-44-0	Fluoranthene	0.487	0.045	0.020	mg/kg	
86-73-7	Fluorene	0.0243	0.045	0.021	mg/kg	J
118-74-1	Hexachlorobenzene	ND	0.090	0.011	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.045	0.018	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.45	0.018	mg/kg	
67-72-1	Hexachloroethane	ND	0.22	0.022	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.147	0.045	0.021	mg/kg	
78-59-1	Isophorone	ND	0.090	0.0096	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.045	0.010	mg/kg	
88-74-4	2-Nitroaniline	ND	0.22	0.011	mg/kg	
99-09-2	3-Nitroaniline	ND	0.22	0.011	mg/kg	
100-01-6	4-Nitroaniline	ND	0.22	0.012	mg/kg	
91-20-3	Naphthalene	ND	0.045	0.013	mg/kg	
98-95-3	Nitrobenzene	ND	0.090	0.017	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.090	0.013	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.22	0.016	mg/kg	
85-01-8	Phenanthrene	0.243	0.045	0.015	mg/kg	
129-00-0	Pyrene	0.495	0.045	0.014	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.22	0.011	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1		
Lab Sample ID:	JD87833-1	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	71.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	72%		10-96%
118-79-6	2,4,6-Tribromophenol	90%		10-123%
4165-60-0	Nitrobenzene-d5	72%		10-109%
321-60-8	2-Fluorobiphenyl	77%		11-109%
1718-51-0	Terphenyl-d14	81%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown acid	9.04	.59	mg/kg	J
	Unknown	10.07	.68	mg/kg	J
	Unknown	10.27	1.1	mg/kg	J
112-85-6	Docosanoic acid	10.50	1.6	mg/kg	JN
	Unknown acid	10.81	.83	mg/kg	J
	Unknown	10.91	2	mg/kg	J
	Unknown acid	11.11	2.3	mg/kg	J
	Unknown	11.21	1.4	mg/kg	J
	Unknown	11.52	4.5	mg/kg	J
	Unknown	11.87	.59	mg/kg	J
	Unknown	12.01	1.6	mg/kg	J
	Alkane	12.22	4.4	mg/kg	J
	Unknown alcohol	12.25	2.7	mg/kg	J
	Unknown	12.54	.59	mg/kg	J
	Unknown	12.68	.64	mg/kg	J
	Alkane	13.12	2.7	mg/kg	J
	Unknown alcohol	13.18	3.1	mg/kg	J
	Unknown	13.43	4.4	mg/kg	J
	Unknown	13.51	.78	mg/kg	J
	Unknown acid	13.56	1.3	mg/kg	J
	Unknown	13.74	.69	mg/kg	J
	Unknown	13.98	.78	mg/kg	J
	Unknown	14.04	1.1	mg/kg	J
	Unknown	14.23	1.2	mg/kg	J
	Unknown	14.44	1.1	mg/kg	J
	Total TIC, Semi-Volatile		42.67	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-1		
Lab Sample ID:	JD87833-1	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	71.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G56351.D	1	05/09/24 06:24	CP	05/08/24 18:21	OP54452	G8G2470
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00053	0.00010	mg/kg	
319-84-6	alpha-BHC	ND	0.00053	0.000061	mg/kg	
319-85-7	beta-BHC	ND	0.00053	0.000077	mg/kg	
319-86-8	delta-BHC	ND	0.00053	0.000079	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00053	0.000092	mg/kg	
5103-71-9	alpha-Chlordane [a]	0.00048	0.00053	0.000071	mg/kg	J
5103-74-2	gamma-Chlordane	ND	0.00053	0.000079	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.00048	0.00053	0.000071	mg/kg	J
60-57-1	Dieldrin	0.00043	0.00053	0.000085	mg/kg	J
72-54-8	4,4'-DDD	0.0015	0.00053	0.000055	mg/kg	
72-55-9	4,4'-DDE	0.0025	0.00053	0.000063	mg/kg	
50-29-3	4,4'-DDT [b]	0.0022	0.00053	0.000092	mg/kg	
72-20-8	Endrin	ND	0.00053	0.000077	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00053	0.000063	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00053	0.00015	mg/kg	
959-98-8	Endosulfan-I	ND	0.00053	0.000071	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00053	0.000074	mg/kg	
76-44-8	Heptachlor	ND	0.00053	0.000069	mg/kg	
1024-57-3	Heptachlor epoxide	0.00035	0.00053	0.000095	mg/kg	J
72-43-5	Methoxychlor	ND	0.00053	0.00021	mg/kg	
53494-70-5	Endrin ketone	ND	0.00053	0.000085	mg/kg	
8001-35-2	Toxaphene	ND	0.0066	0.0044	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		46-145%
877-09-8	Tetrachloro-m-xylene	83%		46-145%
2051-24-3	Decachlorobiphenyl	54%		29-163%
2051-24-3	Decachlorobiphenyl	86%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1		
Lab Sample ID:	JD87833-1	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	71.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-1		
Lab Sample ID:	JD87833-1	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	71.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G231737.D	1	05/09/24 06:27	MLC	05/08/24 18:21	OP54453	G2G6085
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.026	0.011	mg/kg	
11104-28-2	Aroclor 1221	ND	0.026	0.0089	mg/kg	
11141-16-5	Aroclor 1232	ND	0.026	0.022	mg/kg	
53469-21-9	Aroclor 1242	ND	0.026	0.016	mg/kg	
12672-29-6	Aroclor 1248	ND	0.026	0.0057	mg/kg	
11097-69-1	Aroclor 1254	ND	0.026	0.0029	mg/kg	
11096-82-5	Aroclor 1260	ND	0.026	0.0091	mg/kg	
11100-14-4	Aroclor 1268	ND	0.026	0.0027	mg/kg	
37324-23-5	Aroclor 1262	ND	0.026	0.0022	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		42-159%
877-09-8	Tetrachloro-m-xylene	90%		42-159%
2051-24-3	Decachlorobiphenyl	94%		18-154%
2051-24-3	Decachlorobiphenyl	103%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-1
Lab Sample ID: JD87833-1
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 05/03/24
Date Received: 05/03/24
Percent Solids: 71.4

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	11000	69	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.7	2.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	5.1	2.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	53.6	27	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.40	0.27	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.69	0.69	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	3000	690	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	18.0	1.4	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 6.9	6.9	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	18.4	3.4	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	15600	69	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	169	2.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	2070	690	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	333	2.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.29	0.044	mg/kg	1	05/08/24	05/09/24	CB	SW846 7471B [1]	SW846 7471B [4]
Nickel	12.6	5.5	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1400	1400	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.7	2.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.69	0.69	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1400	1400	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.4	1.4	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	32.1	6.9	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	74.8	14	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56033
(2) Instrument QC Batch: MA56049
(3) Prep QC Batch: MP46464
(4) Prep QC Batch: MP46496

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-2		
Lab Sample ID:	JD87833-2	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	89.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ6529.D	1	05/09/24 21:26	RS	05/09/24 10:55	OP54460	ECJ297
Run #2							

	Initial Weight	Final Volume
Run #1	31.0 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.072	0.018	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.18	0.022	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.18	0.031	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.18	0.064	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.18	0.14	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.18	0.039	mg/kg	
95-48-7	2-Methylphenol	ND	0.072	0.023	mg/kg	
	3&4-Methylphenol	ND	0.072	0.030	mg/kg	
88-75-5	2-Nitrophenol	ND	0.18	0.024	mg/kg	
100-02-7	4-Nitrophenol	ND	0.36	0.097	mg/kg	
87-86-5	Pentachlorophenol [a]	ND	0.14	0.034	mg/kg	
108-95-2	Phenol	ND	0.072	0.019	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.18	0.024	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.18	0.027	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.18	0.022	mg/kg	
83-32-9	Acenaphthene	0.0494	0.036	0.012	mg/kg	
208-96-8	Acenaphthylene	0.122	0.036	0.018	mg/kg	
98-86-2	Acetophenone	ND	0.18	0.0078	mg/kg	
120-12-7	Anthracene	0.213	0.036	0.022	mg/kg	
1912-24-9	Atrazine	ND	0.072	0.015	mg/kg	
56-55-3	Benzo(a)anthracene	0.519	0.036	0.010	mg/kg	
50-32-8	Benzo(a)pyrene	0.481	0.036	0.016	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.534	0.036	0.016	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.304	0.036	0.018	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.161	0.036	0.017	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.072	0.014	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.072	0.0088	mg/kg	
92-52-4	1,1'-Biphenyl	0.0192	0.072	0.0050	mg/kg	J
100-52-7	Benzaldehyde	ND	0.18	0.0090	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.072	0.0086	mg/kg	
106-47-8	4-Chloroaniline	ND	0.18	0.013	mg/kg	
86-74-8	Carbazole	0.0246	0.072	0.0052	mg/kg	JB

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-2
Lab Sample ID: JD87833-2
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 05/03/24
Date Received: 05/03/24
Percent Solids: 89.1

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.072	0.014	mg/kg	
218-01-9	Chrysene	0.496	0.036	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.072	0.0077	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.072	0.016	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.072	0.013	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.072	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.036	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.036	0.018	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.072	0.030	mg/kg	
123-91-1	1,4-Dioxane	ND	0.036	0.024	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0819	0.036	0.016	mg/kg	
132-64-9	Dibenzofuran	ND	0.072	0.015	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.072	0.0059	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.072	0.0090	mg/kg	
84-66-2	Diethyl phthalate	ND	0.072	0.0077	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.072	0.0064	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.072	0.0085	mg/kg	
206-44-0	Fluoranthene	0.956	0.036	0.016	mg/kg	
86-73-7	Fluorene	0.192	0.036	0.017	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.072	0.0092	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.036	0.015	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.36	0.014	mg/kg	
67-72-1	Hexachloroethane	ND	0.18	0.018	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	0.036	0.017	mg/kg	
78-59-1	Isophorone	ND	0.072	0.0077	mg/kg	
91-57-6	2-Methylnaphthalene	0.0782	0.036	0.0082	mg/kg	
88-74-4	2-Nitroaniline	ND	0.18	0.0085	mg/kg	
99-09-2	3-Nitroaniline	ND	0.18	0.0091	mg/kg	
100-01-6	4-Nitroaniline	ND	0.18	0.0094	mg/kg	
91-20-3	Naphthalene	0.0209	0.036	0.010	mg/kg	J
98-95-3	Nitrobenzene	ND	0.072	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.072	0.010	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.18	0.013	mg/kg	
85-01-8	Phenanthrene	0.956	0.036	0.012	mg/kg	
129-00-0	Pyrene	1.12	0.036	0.012	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.18	0.0092	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	74%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-2		
Lab Sample ID:	JD87833-2	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	89.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	75%		10-96%
118-79-6	2,4,6-Tribromophenol	91%		10-123%
4165-60-0	Nitrobenzene-d5	74%		10-109%
321-60-8	2-Fluorobiphenyl	79%		11-109%
1718-51-0	Terphenyl-d14	81%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.25	.28	mg/kg	J
	Unknown	4.76	.15	mg/kg	J
	Unknown	4.82	.16	mg/kg	J
	Naphthalene, dimethyl	6.40	.21	mg/kg	J
	9H-Fluorene, methyl	7.53	.16	mg/kg	J
	Anthracene, methyl	8.32	.39	mg/kg	J
	Phenanthrene, methyl	8.34	.36	mg/kg	J
	Unknown	8.42	.43	mg/kg	J
	Phenanthrene, methyl	8.44	.21	mg/kg	J
	Unknown	8.60	.29	mg/kg	J
	Phenanthrene, dimethyl	8.84	.26	mg/kg	J
52251-71-5	Anthracene, 2-ethyl-	8.91	.15	mg/kg	JN
	Unknown	9.04	.22	mg/kg	J
	Unknown	9.12	.15	mg/kg	J
	Unknown	9.52	.28	mg/kg	J
	Unknown	9.58	.18	mg/kg	J
	Pyrene, methyl	9.62	.15	mg/kg	J
239-35-0	Benzo[b]naphtho[2,1-d]thiophene	10.11	.16	mg/kg	JN
	Alkene	10.91	.15	mg/kg	J
	Unknown	11.05	.16	mg/kg	J
	Unknown	11.52	.22	mg/kg	J
	System artifact	12.21	.16	mg/kg	J
	Unknown	12.45	.4	mg/kg	J
	Unknown	13.08	.16	mg/kg	J
	Unknown	13.41	.29	mg/kg	J
	Total TIC, Semi-Volatile		5.57	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-2
Lab Sample ID: JD87833-2
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 05/03/24
Date Received: 05/03/24
Percent Solids: 89.1

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5830	54	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.2	2.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	2.4	2.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	24.2	22	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.24	0.22	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.54	0.54	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	1240	540	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	8.7	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.4	5.4	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	7.5	2.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	10200	54	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	13.7	2.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1340	540	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	164	1.6	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.054	0.030	mg/kg	1	05/08/24	05/09/24	CB	SW846 7471B [1]	SW846 7471B [4]
Nickel	6.6	4.4	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.54	0.54	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	16.9	5.4	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	26.9	11	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56033
(2) Instrument QC Batch: MA56049
(3) Prep QC Batch: MP46464
(4) Prep QC Batch: MP46496

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-3		
Lab Sample ID:	JD87833-3	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	88.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CJ6525.D	2	05/09/24 20:11	RS	05/09/24 10:55	OP54460	ECJ297
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.15	0.036	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.37	0.045	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.37	0.062	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.37	0.13	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.37	0.27	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.37	0.078	mg/kg	
95-48-7	2-Methylphenol	ND	0.15	0.047	mg/kg	
	3&4-Methylphenol	ND	0.15	0.060	mg/kg	
88-75-5	2-Nitrophenol	ND	0.37	0.048	mg/kg	
100-02-7	4-Nitrophenol	ND	0.73	0.20	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.29	0.069	mg/kg	
108-95-2	Phenol	ND	0.15	0.038	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.37	0.048	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.37	0.055	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.37	0.044	mg/kg	
83-32-9	Acenaphthene	0.133	0.073	0.025	mg/kg	
208-96-8	Acenaphthylene	0.182	0.073	0.037	mg/kg	
98-86-2	Acetophenone	ND	0.37	0.016	mg/kg	
120-12-7	Anthracene	0.539	0.073	0.045	mg/kg	
1912-24-9	Atrazine	ND	0.15	0.031	mg/kg	
56-55-3	Benzo(a)anthracene	1.50	0.073	0.021	mg/kg	
50-32-8	Benzo(a)pyrene	1.46	0.073	0.033	mg/kg	
205-99-2	Benzo(b)fluoranthene	1.72	0.073	0.032	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.902	0.073	0.037	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.485	0.073	0.034	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.15	0.028	mg/kg	
85-68-7	Butyl benzyl phthalate [b]	ND	0.15	0.018	mg/kg	
92-52-4	1,1'-Biphenyl	0.0142	0.15	0.010	mg/kg	J
100-52-7	Benzaldehyde	ND	0.37	0.018	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.15	0.017	mg/kg	
106-47-8	4-Chloroaniline	ND	0.37	0.026	mg/kg	
86-74-8	Carbazole	0.114	0.15	0.011	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-3
Lab Sample ID: JD87833-3
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 05/03/24
Date Received: 05/03/24
Percent Solids: 88.5

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.15	0.029	mg/kg	
218-01-9	Chrysene	1.29	0.073	0.023	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.15	0.016	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.15	0.032	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.15	0.026	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.15	0.024	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.073	0.023	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.073	0.037	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.15	0.061	mg/kg	
123-91-1	1,4-Dioxane	ND	0.073	0.048	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.230	0.073	0.032	mg/kg	
132-64-9	Dibenzofuran	0.0867	0.15	0.030	mg/kg	J
84-74-2	Di-n-butyl phthalate	ND	0.15	0.012	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.15	0.018	mg/kg	
84-66-2	Diethyl phthalate	ND	0.15	0.016	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.15	0.013	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.15	0.017	mg/kg	
206-44-0	Fluoranthene	3.15	0.073	0.033	mg/kg	
86-73-7	Fluorene	0.206	0.073	0.034	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.15	0.019	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.073	0.029	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.73	0.029	mg/kg	
67-72-1	Hexachloroethane	ND	0.37	0.036	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.752	0.073	0.034	mg/kg	
78-59-1	Isophorone	ND	0.15	0.016	mg/kg	
91-57-6	2-Methylnaphthalene	0.0286	0.073	0.017	mg/kg	J
88-74-4	2-Nitroaniline	ND	0.37	0.017	mg/kg	
99-09-2	3-Nitroaniline	ND	0.37	0.018	mg/kg	
100-01-6	4-Nitroaniline	ND	0.37	0.019	mg/kg	
91-20-3	Naphthalene	0.0345	0.073	0.021	mg/kg	J
98-95-3	Nitrobenzene	ND	0.15	0.028	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.15	0.021	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.37	0.027	mg/kg	
85-01-8	Phenanthrene	1.73	0.073	0.025	mg/kg	
129-00-0	Pyrene	3.14	0.073	0.023	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.37	0.019	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3		
Lab Sample ID:	JD87833-3	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	88.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	68%		10-96%
118-79-6	2,4,6-Tribromophenol	77%		10-123%
4165-60-0	Nitrobenzene-d5	67%		10-109%
321-60-8	2-Fluorobiphenyl	71%		11-109%
1718-51-0	Terphenyl-d14	75%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.25	.37	mg/kg	J
203-64-5	4H-Cyclopenta[def]phenanthrene	8.42	.64	mg/kg	JN
	Unknown	8.60	.33	mg/kg	J
243-17-4	11H-Benzo[b]fluorene	9.52	.35	mg/kg	JN
	Unknown	10.46	.3	mg/kg	J
	unknown PAH Substances	11.44	.5	mg/kg	J
	unknown PAH substance	11.61	.87	mg/kg	J
	Unknown	11.86	.35	mg/kg	J
	Unknown	13.41	.45	mg/kg	J
	Total TIC, Semi-Volatile		4.16	mg/kg	J

(a) Dilution required due to matrix interference.
(b) Associated CCV outside of control limits high, sample was ND.

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-3		
Lab Sample ID:	JD87833-3	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	88.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G56352.D	1	05/09/24 06:46	CP	05/08/24 18:21	OP54452	G8G2470
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00042	0.000082	mg/kg	
319-84-6	alpha-BHC	ND	0.00042	0.000048	mg/kg	
319-85-7	beta-BHC [a]	0.00013	0.00042	0.000061	mg/kg	JB
319-86-8	delta-BHC	ND	0.00042	0.000063	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00042	0.000073	mg/kg	
5103-71-9	alpha-Chlordane	0.00098	0.00042	0.000056	mg/kg	
5103-74-2	gamma-Chlordane	0.00051	0.00042	0.000063	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0015	0.00042	0.000056	mg/kg	
60-57-1	Dieldrin [a]	0.00012	0.00042	0.000067	mg/kg	J
72-54-8	4,4'-DDD	0.00079	0.00042	0.000044	mg/kg	
72-55-9	4,4'-DDE [a]	0.00045	0.00042	0.000050	mg/kg	
50-29-3	4,4'-DDT [a]	0.0011	0.00042	0.000073	mg/kg	
72-20-8	Endrin	ND	0.00042	0.000061	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00042	0.000050	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00042	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00042	0.000056	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00042	0.000059	mg/kg	
76-44-8	Heptachlor	ND	0.00042	0.000054	mg/kg	
1024-57-3	Heptachlor epoxide [a]	0.00018	0.00042	0.000075	mg/kg	J
72-43-5	Methoxychlor	ND	0.00042	0.00017	mg/kg	
53494-70-5	Endrin ketone	ND	0.00042	0.000067	mg/kg	
8001-35-2	Toxaphene	ND	0.0052	0.0035	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	97%		46-145%
877-09-8	Tetrachloro-m-xylene	84%		46-145%
2051-24-3	Decachlorobiphenyl	55%		29-163%
2051-24-3	Decachlorobiphenyl	127%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-3		
Lab Sample ID:	JD87833-3	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	88.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G231738.D	1	05/09/24 06:51	MLC	05/08/24 18:21	OP54453	G2G6085
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.021	0.0089	mg/kg	
11104-28-2	Aroclor 1221	ND	0.021	0.0070	mg/kg	
11141-16-5	Aroclor 1232	ND	0.021	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.021	0.013	mg/kg	
12672-29-6	Aroclor 1248	ND	0.021	0.0045	mg/kg	
11097-69-1	Aroclor 1254	ND	0.021	0.0023	mg/kg	
11096-82-5	Aroclor 1260	ND	0.021	0.0072	mg/kg	
11100-14-4	Aroclor 1268	ND	0.021	0.0021	mg/kg	
37324-23-5	Aroclor 1262	ND	0.021	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		42-159%
877-09-8	Tetrachloro-m-xylene	78%		42-159%
2051-24-3	Decachlorobiphenyl	80%		18-154%
2051-24-3	Decachlorobiphenyl	123%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-3
Lab Sample ID: JD87833-3
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 05/03/24
Date Received: 05/03/24
Percent Solids: 88.5

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	7040	56	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.2	2.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	2.4	2.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	28.8	22	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.28	0.22	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.56	0.56	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	1560	560	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	9.4	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.6	5.6	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	9.3	2.8	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	11400	56	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	13.1	2.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1600	560	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	226	1.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.032	0.032	mg/kg	1	05/08/24	05/09/24	CB	SW846 7471B [1]	SW846 7471B [4]
Nickel	7.9	4.5	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.56	0.56	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	20.2	5.6	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	29.0	11	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56033
(2) Instrument QC Batch: MA56049
(3) Prep QC Batch: MP46464
(4) Prep QC Batch: MP46496

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-4		
Lab Sample ID:	JD87833-4	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ6530.D	1	05/09/24 21:45	RS	05/09/24 10:55	OP54460	ECJ297
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.076	0.019	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.19	0.023	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.19	0.032	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.19	0.067	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.19	0.14	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.19	0.040	mg/kg	
95-48-7	2-Methylphenol	ND	0.076	0.024	mg/kg	
	3&4-Methylphenol	ND	0.076	0.031	mg/kg	
88-75-5	2-Nitrophenol	ND	0.19	0.025	mg/kg	
100-02-7	4-Nitrophenol	ND	0.38	0.10	mg/kg	
87-86-5	Pentachlorophenol [a]	ND	0.15	0.035	mg/kg	
108-95-2	Phenol	ND	0.076	0.020	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.19	0.025	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.19	0.028	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.19	0.023	mg/kg	
83-32-9	Acenaphthene	0.106	0.038	0.013	mg/kg	
208-96-8	Acenaphthylene	0.207	0.038	0.019	mg/kg	
98-86-2	Acetophenone	ND	0.19	0.0081	mg/kg	
120-12-7	Anthracene	0.563	0.038	0.023	mg/kg	
1912-24-9	Atrazine	ND	0.076	0.016	mg/kg	
56-55-3	Benzo(a)anthracene	1.55	0.038	0.011	mg/kg	
50-32-8	Benzo(a)pyrene	1.53	0.038	0.017	mg/kg	
205-99-2	Benzo(b)fluoranthene	1.81	0.038	0.017	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.941	0.038	0.019	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.505	0.038	0.018	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.076	0.015	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.076	0.0092	mg/kg	
92-52-4	1,1'-Biphenyl	0.0087	0.076	0.0052	mg/kg	J
100-52-7	Benzaldehyde	ND	0.19	0.0094	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.076	0.0090	mg/kg	
106-47-8	4-Chloroaniline	ND	0.19	0.014	mg/kg	
86-74-8	Carbazole	0.0690	0.076	0.0055	mg/kg	JB

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-4
Lab Sample ID: JD87833-4
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 05/03/24
Date Received: 05/03/24
Percent Solids: 87.6

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.076	0.015	mg/kg	
218-01-9	Chrysene	1.44	0.038	0.012	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.076	0.0081	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.076	0.016	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.076	0.014	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.076	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.038	0.012	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.038	0.019	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.076	0.032	mg/kg	
123-91-1	1,4-Dioxane	ND	0.038	0.025	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.247	0.038	0.017	mg/kg	
132-64-9	Dibenzofuran	0.0509	0.076	0.015	mg/kg	J
84-74-2	Di-n-butyl phthalate	ND	0.076	0.0062	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.076	0.0094	mg/kg	
84-66-2	Diethyl phthalate	ND	0.076	0.0081	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.076	0.0067	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.076	0.0088	mg/kg	
206-44-0	Fluoranthene	3.22	0.038	0.017	mg/kg	
86-73-7	Fluorene	0.163	0.038	0.017	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.076	0.0096	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.038	0.015	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.38	0.015	mg/kg	
67-72-1	Hexachloroethane	ND	0.19	0.019	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.796	0.038	0.018	mg/kg	
78-59-1	Isophorone	ND	0.076	0.0081	mg/kg	
91-57-6	2-Methylnaphthalene	0.0181	0.038	0.0085	mg/kg	J
88-74-4	2-Nitroaniline	ND	0.19	0.0089	mg/kg	
99-09-2	3-Nitroaniline	ND	0.19	0.0094	mg/kg	
100-01-6	4-Nitroaniline	ND	0.19	0.0098	mg/kg	
91-20-3	Naphthalene	0.0238	0.038	0.011	mg/kg	J
98-95-3	Nitrobenzene	ND	0.076	0.015	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.076	0.011	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.19	0.014	mg/kg	
85-01-8	Phenanthrene	1.53	0.038	0.013	mg/kg	
129-00-0	Pyrene	3.12	0.038	0.012	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.19	0.0096	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	74%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-4		
Lab Sample ID:	JD87833-4	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	76%		10-96%
118-79-6	2,4,6-Tribromophenol	95%		10-123%
4165-60-0	Nitrobenzene-d5	79%		10-109%
321-60-8	2-Fluorobiphenyl	83%		11-109%
1718-51-0	Terphenyl-d14	87%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.25	.44	mg/kg	J
	Unknown	4.48	.2	mg/kg	J
	Unknown	4.76	.18	mg/kg	J
	Phenanthrene, methyl	8.32	.23	mg/kg	J
	Phenanthrene, methyl	8.34	.2	mg/kg	J
203-64-5	4H-Cyclopenta[def]phenanthrene	8.42	.65	mg/kg	JN
	Unknown	8.60	.29	mg/kg	J
	Anthracene, dimethyl	8.83	.19	mg/kg	J
	Unknown	8.91	.19	mg/kg	J
	Fluoranthene, methyl	9.52	.31	mg/kg	J
	Unknown	9.58	.19	mg/kg	J
	Unknown	10.46	.16	mg/kg	J
	Unknown	10.75	.15	mg/kg	J
	Unknown	11.05	.33	mg/kg	J
	Unknown	11.11	.28	mg/kg	J
	Unknown	11.21	.43	mg/kg	J
	Unknown PHA Substance	11.45	.46	mg/kg	J
	Unknown	11.52	.21	mg/kg	J
	Unknown PHA Substance	11.61	.92	mg/kg	J
	H-Indeno phenanthrene	11.87	.21	mg/kg	J
	Unknown	12.77	.38	mg/kg	J
	Unknown	13.05	.21	mg/kg	J
	Unknown	13.09	.23	mg/kg	J
	Unknown	13.13	.17	mg/kg	J
	Unknown	13.42	.4	mg/kg	J
	Total TIC, Semi-Volatile		7.61	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-4		
Lab Sample ID:	JD87833-4	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	87.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G56353.D	1	05/09/24 07:08	CP	05/08/24 18:21	OP54452	G8G2470
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00042	0.000082	mg/kg	
319-84-6	alpha-BHC	ND	0.00042	0.000049	mg/kg	
319-85-7	beta-BHC [a]	0.00014	0.00042	0.000061	mg/kg	JB
319-86-8	delta-BHC	ND	0.00042	0.000063	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00042	0.000074	mg/kg	
5103-71-9	alpha-Chlordane	0.0012	0.00042	0.000057	mg/kg	
5103-74-2	gamma-Chlordane	0.00046	0.00042	0.000063	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0017	0.00042	0.000057	mg/kg	
60-57-1	Dieldrin	0.00021	0.00042	0.000068	mg/kg	J
72-54-8	4,4'-DDD [a]	0.00040	0.00042	0.000044	mg/kg	J
72-55-9	4,4'-DDE [a]	0.00014	0.00042	0.000051	mg/kg	J
50-29-3	4,4'-DDT [a]	0.00053	0.00042	0.000074	mg/kg	
72-20-8	Endrin	ND	0.00042	0.000061	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00042	0.000051	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00042	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00042	0.000057	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00042	0.000059	mg/kg	
76-44-8	Heptachlor	ND	0.00042	0.000055	mg/kg	
1024-57-3	Heptachlor epoxide [a]	0.00024	0.00042	0.000076	mg/kg	J
72-43-5	Methoxychlor	ND	0.00042	0.00017	mg/kg	
53494-70-5	Endrin ketone	ND	0.00042	0.000068	mg/kg	
8001-35-2	Toxaphene	ND	0.0053	0.0035	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		46-145%
877-09-8	Tetrachloro-m-xylene	75%		46-145%
2051-24-3	Decachlorobiphenyl	44%		29-163%
2051-24-3	Decachlorobiphenyl	112%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-4		
Lab Sample ID:	JD87833-4	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	87.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G231739.D	1	05/09/24 07:15	MLC	05/08/24 18:21	OP54453	G2G6085
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.021	0.0090	mg/kg	
11104-28-2	Aroclor 1221	ND	0.021	0.0071	mg/kg	
11141-16-5	Aroclor 1232	ND	0.021	0.018	mg/kg	
53469-21-9	Aroclor 1242	ND	0.021	0.013	mg/kg	
12672-29-6	Aroclor 1248	ND	0.021	0.0046	mg/kg	
11097-69-1	Aroclor 1254	ND	0.021	0.0023	mg/kg	
11096-82-5	Aroclor 1260	ND	0.021	0.0073	mg/kg	
11100-14-4	Aroclor 1268	ND	0.021	0.0021	mg/kg	
37324-23-5	Aroclor 1262	ND	0.021	0.0018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		42-159%
877-09-8	Tetrachloro-m-xylene	77%		42-159%
2051-24-3	Decachlorobiphenyl	73%		18-154%
2051-24-3	Decachlorobiphenyl	118%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-4		
Lab Sample ID:	JD87833-4	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
		Percent Solids:	87.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	6940	56	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.2	2.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	2.4	2.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	25.8	22	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.27	0.22	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.56	0.56	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	1220	560	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	8.6	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.6	5.6	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	8.3	2.8	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	10900	56	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	17.2	2.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1510	560	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	178	1.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.029	0.029	mg/kg	1	05/08/24	05/09/24	CB	SW846 7471B [1]	SW846 7471B [4]
Nickel	7.2	4.5	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.56	0.56	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	18.7	5.6	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	26.9	11	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56033
(2) Instrument QC Batch: MA56049
(3) Prep QC Batch: MP46464
(4) Prep QC Batch: MP46496

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-5		
Lab Sample ID:	JD87833-5	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	89.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ6531.D	1	05/09/24 22:03	RS	05/09/24 10:55	OP54460	ECJ297
Run #2	CJ6680.D	5	05/13/24 10:04	KH	05/09/24 10:55	OP54460	ECJ302

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2	30.4 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.073	0.018	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.18	0.022	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.18	0.031	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.18	0.065	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.18	0.14	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.18	0.039	mg/kg	
95-48-7	2-Methylphenol	ND	0.073	0.023	mg/kg	
	3&4-Methylphenol	ND	0.073	0.030	mg/kg	
88-75-5	2-Nitrophenol	ND	0.18	0.024	mg/kg	
100-02-7	4-Nitrophenol	ND	0.37	0.098	mg/kg	
87-86-5	Pentachlorophenol [a]	ND	0.15	0.034	mg/kg	
108-95-2	Phenol	ND	0.073	0.019	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.18	0.024	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.18	0.027	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.18	0.022	mg/kg	
83-32-9	Acenaphthene	0.147	0.037	0.013	mg/kg	
208-96-8	Acenaphthylene	0.192	0.037	0.019	mg/kg	
98-86-2	Acetophenone	ND	0.18	0.0079	mg/kg	
120-12-7	Anthracene	0.568	0.037	0.022	mg/kg	
1912-24-9	Atrazine	ND	0.073	0.016	mg/kg	
56-55-3	Benzo(a)anthracene	1.85	0.037	0.010	mg/kg	
50-32-8	Benzo(a)pyrene	1.87	0.037	0.017	mg/kg	
205-99-2	Benzo(b)fluoranthene	2.04	0.037	0.016	mg/kg	
191-24-2	Benzo(g,h,i)perylene	1.20	0.037	0.018	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.728	0.037	0.017	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.073	0.014	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.073	0.0089	mg/kg	
92-52-4	1,1'-Biphenyl	0.0130	0.073	0.0050	mg/kg	J
100-52-7	Benzaldehyde	ND	0.18	0.0091	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.073	0.0087	mg/kg	
106-47-8	4-Chloroaniline	ND	0.18	0.013	mg/kg	
86-74-8	Carbazole	0.0723	0.073	0.0053	mg/kg	JB

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5		
Lab Sample ID:	JD87833-5	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	89.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.073	0.014	mg/kg	
218-01-9	Chrysene	1.54	0.037	0.012	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.073	0.0078	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.073	0.016	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.073	0.013	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.073	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.037	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.037	0.018	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.073	0.031	mg/kg	
123-91-1	1,4-Dioxane	ND	0.037	0.024	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.287	0.037	0.016	mg/kg	
132-64-9	Dibenzofuran	0.0929	0.073	0.015	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.073	0.0060	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.073	0.0091	mg/kg	
84-66-2	Diethyl phthalate	ND	0.073	0.0078	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.073	0.0065	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.073	0.0086	mg/kg	
206-44-0	Fluoranthene	3.68 [b]	0.18	0.082	mg/kg	
86-73-7	Fluorene	0.166	0.037	0.017	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.073	0.0093	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.037	0.015	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.37	0.015	mg/kg	
67-72-1	Hexachloroethane	ND	0.18	0.018	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.974	0.037	0.017	mg/kg	
78-59-1	Isophorone	ND	0.073	0.0078	mg/kg	
91-57-6	2-Methylnaphthalene	0.0200	0.037	0.0083	mg/kg	J
88-74-4	2-Nitroaniline	ND	0.18	0.0087	mg/kg	
99-09-2	3-Nitroaniline	ND	0.18	0.0092	mg/kg	
100-01-6	4-Nitroaniline	ND	0.18	0.0095	mg/kg	
91-20-3	Naphthalene	0.0286	0.037	0.010	mg/kg	J
98-95-3	Nitrobenzene	ND	0.073	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.073	0.011	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.18	0.013	mg/kg	
85-01-8	Phenanthrene	1.42	0.037	0.012	mg/kg	
129-00-0	Pyrene	3.41 [b]	0.18	0.059	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.18	0.0093	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	75%	71%	10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5		
Lab Sample ID:	JD87833-5	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	89.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	80%	74%	10-96%
118-79-6	2,4,6-Tribromophenol	103%	95%	10-123%
4165-60-0	Nitrobenzene-d5	79%	73%	10-109%
321-60-8	2-Fluorobiphenyl	87%	82%	11-109%
1718-51-0	Terphenyl-d14	92%	86%	10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.25	.29	mg/kg	J
13798-23-7	Sulfur	6.89	.37	mg/kg	JN
	Anthracene, methyl	8.32	.21	mg/kg	J
203-64-5	4H-Cyclopenta[def]phenanthrene	8.42	.61	mg/kg	JN
	Naphthalene, phenyl	8.60	.28	mg/kg	J
	Unknown	8.91	.24	mg/kg	J
	Unknown	9.12	.22	mg/kg	J
	Pyrene, methyl	9.52	.29	mg/kg	J
	Unknown	11.05	.32	mg/kg	J
	Unknown	11.11	.28	mg/kg	J
	Unknown	11.21	.38	mg/kg	J
	Unknown PHA Substance	11.45	.42	mg/kg	J
	Unknown	11.52	.65	mg/kg	J
	Unknown PHA Substance	11.61	1.1	mg/kg	J
	Unknown	11.87	.25	mg/kg	J
	Unknown	12.01	.46	mg/kg	J
	Alkane	12.21	.26	mg/kg	J
	Unknown	12.24	.23	mg/kg	J
	Unknown	12.68	.25	mg/kg	J
	Unknown	12.77	.39	mg/kg	J
	Unknown	13.05	.28	mg/kg	J
	Unknown	13.09	.63	mg/kg	J
	Unknown	13.43	.82	mg/kg	J
	Unknown	13.85	.23	mg/kg	J
	Unknown	14.02	.26	mg/kg	J
	Total TIC, Semi-Volatile		9.72	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-5		
Lab Sample ID:	JD87833-5	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	89.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G56401.D	5	05/10/24 01:27	TP	05/08/24 18:21	OP54452	G8G2471
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0021	0.00040	mg/kg	
319-84-6	alpha-BHC	ND	0.0021	0.00024	mg/kg	
319-85-7	beta-BHC	ND	0.0021	0.00030	mg/kg	
319-86-8	delta-BHC	ND	0.0021	0.00031	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.0021	0.00036	mg/kg	
5103-71-9	alpha-Chlordane [a]	0.00063	0.0021	0.00028	mg/kg	J
5103-74-2	gamma-Chlordane	ND	0.0021	0.00031	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.00063	0.0021	0.00028	mg/kg	J
60-57-1	Dieldrin	ND	0.0021	0.00033	mg/kg	
72-54-8	4,4'-DDD [a]	0.00073	0.0021	0.00022	mg/kg	J
72-55-9	4,4'-DDE	ND	0.0021	0.00025	mg/kg	
50-29-3	4,4'-DDT	0.0013	0.0021	0.00036	mg/kg	J
72-20-8	Endrin	ND	0.0021	0.00030	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.0021	0.00025	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.0021	0.00060	mg/kg	
959-98-8	Endosulfan-I	ND	0.0021	0.00028	mg/kg	
33213-65-9	Endosulfan-II	ND	0.0021	0.00029	mg/kg	
76-44-8	Heptachlor	ND	0.0021	0.00027	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.0021	0.00037	mg/kg	
72-43-5	Methoxychlor	ND	0.0021	0.00082	mg/kg	
53494-70-5	Endrin ketone	ND	0.0021	0.00033	mg/kg	
8001-35-2	Toxaphene	ND	0.026	0.017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		46-145%
877-09-8	Tetrachloro-m-xylene	84%		46-145%
2051-24-3	Decachlorobiphenyl	54%		29-163%
2051-24-3	Decachlorobiphenyl	104%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-5		
Lab Sample ID:	JD87833-5	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	89.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G231744.D	1	05/09/24 09:16	MLC	05/08/24 18:21	OP54453	G2G6085
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.021	0.0088	mg/kg	
11104-28-2	Aroclor 1221	ND	0.021	0.0069	mg/kg	
11141-16-5	Aroclor 1232	ND	0.021	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.021	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.021	0.0045	mg/kg	
11097-69-1	Aroclor 1254	ND	0.021	0.0022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.021	0.0071	mg/kg	
11100-14-4	Aroclor 1268	ND	0.021	0.0021	mg/kg	
37324-23-5	Aroclor 1262	ND	0.021	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		42-159%
877-09-8	Tetrachloro-m-xylene	75%		42-159%
2051-24-3	Decachlorobiphenyl	76%		18-154%
2051-24-3	Decachlorobiphenyl	122%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-5
Lab Sample ID: JD87833-5
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 05/03/24
Date Received: 05/03/24
Percent Solids: 89.7

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	7830	57	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	2.4	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	29.2	23	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.30	0.23	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.57	0.57	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	1450	570	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	9.8	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.7	5.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	9.1	2.8	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	11900	57	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	9.8	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1880	570	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	213	1.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.029	0.029	mg/kg	1	05/08/24	05/09/24	CB	SW846 7471B [1]	SW846 7471B [4]
Nickel	8.5	4.6	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.57	0.57	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	18.7	5.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	27.3	11	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56033
(2) Instrument QC Batch: MA56049
(3) Prep QC Batch: MP46464
(4) Prep QC Batch: MP46496

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-6		
Lab Sample ID:	JD87833-6	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	88.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ6532.D	1	05/09/24 22:22	RS	05/09/24 10:55	OP54460	ECJ297
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.073	0.018	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.18	0.022	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.18	0.031	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.18	0.065	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.18	0.14	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.18	0.039	mg/kg	
95-48-7	2-Methylphenol	ND	0.073	0.023	mg/kg	
	3&4-Methylphenol	ND	0.073	0.030	mg/kg	
88-75-5	2-Nitrophenol	ND	0.18	0.024	mg/kg	
100-02-7	4-Nitrophenol	ND	0.36	0.097	mg/kg	
87-86-5	Pentachlorophenol [a]	ND	0.15	0.034	mg/kg	
108-95-2	Phenol	ND	0.073	0.019	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.18	0.024	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.18	0.027	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.18	0.022	mg/kg	
83-32-9	Acenaphthene	0.157	0.036	0.013	mg/kg	
208-96-8	Acenaphthylene	0.223	0.036	0.019	mg/kg	
98-86-2	Acetophenone	ND	0.18	0.0078	mg/kg	
120-12-7	Anthracene	0.537	0.036	0.022	mg/kg	
1912-24-9	Atrazine	ND	0.073	0.016	mg/kg	
56-55-3	Benzo(a)anthracene	1.58	0.036	0.010	mg/kg	
50-32-8	Benzo(a)pyrene	1.58	0.036	0.017	mg/kg	
205-99-2	Benzo(b)fluoranthene	1.81	0.036	0.016	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.994	0.036	0.018	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.574	0.036	0.017	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.073	0.014	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.073	0.0089	mg/kg	
92-52-4	1,1'-Biphenyl	0.0159	0.073	0.0050	mg/kg	J
100-52-7	Benzaldehyde	ND	0.18	0.0090	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.073	0.0087	mg/kg	
106-47-8	4-Chloroaniline	ND	0.18	0.013	mg/kg	
86-74-8	Carbazole	0.102	0.073	0.0053	mg/kg	B

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6		
Lab Sample ID:	JD87833-6	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	88.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.073	0.014	mg/kg	
218-01-9	Chrysene	1.31	0.036	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.073	0.0078	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.073	0.016	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.073	0.013	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.073	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.036	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.036	0.018	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.073	0.030	mg/kg	
123-91-1	1,4-Dioxane	ND	0.036	0.024	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.251	0.036	0.016	mg/kg	
132-64-9	Dibenzofuran	0.0944	0.073	0.015	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.073	0.0059	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.073	0.0091	mg/kg	
84-66-2	Diethyl phthalate	ND	0.073	0.0078	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.073	0.0065	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.073	0.0085	mg/kg	
206-44-0	Fluoranthene	3.05	0.036	0.016	mg/kg	
86-73-7	Fluorene	0.198	0.036	0.017	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.073	0.0092	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.036	0.015	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.36	0.015	mg/kg	
67-72-1	Hexachloroethane	ND	0.18	0.018	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.826	0.036	0.017	mg/kg	
78-59-1	Isophorone	ND	0.073	0.0078	mg/kg	
91-57-6	2-Methylnaphthalene	0.0251	0.036	0.0082	mg/kg	J
88-74-4	2-Nitroaniline	ND	0.18	0.0086	mg/kg	
99-09-2	3-Nitroaniline	ND	0.18	0.0091	mg/kg	
100-01-6	4-Nitroaniline	ND	0.18	0.0094	mg/kg	
91-20-3	Naphthalene	0.0401	0.036	0.010	mg/kg	
98-95-3	Nitrobenzene	ND	0.073	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.073	0.011	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.18	0.013	mg/kg	
85-01-8	Phenanthrene	1.47	0.036	0.012	mg/kg	
129-00-0	Pyrene	3.01	0.036	0.012	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.18	0.0093	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	72%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6		
Lab Sample ID:	JD87833-6	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	88.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	76%		10-96%
118-79-6	2,4,6-Tribromophenol	93%		10-123%
4165-60-0	Nitrobenzene-d5	73%		10-109%
321-60-8	2-Fluorobiphenyl	80%		11-109%
1718-51-0	Terphenyl-d14	84%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown ketone	4.25	.38	mg/kg	J
	Unknown	4.49	.22	mg/kg	J
	Anthracene, methyl	8.32	.2	mg/kg	J
	Anthracene, methyl	8.34	.22	mg/kg	J
203-64-5	4H-Cyclopenta[def]phenanthrene	8.42	.56	mg/kg	JN
	Naphthalene, phenyl	8.60	.25	mg/kg	J
	Phenanthrene, dimethyl	8.84	.18	mg/kg	J
	Unknown	8.91	.19	mg/kg	J
	Unknown	9.12	.18	mg/kg	J
	Pyrene, methyl	9.52	.29	mg/kg	J
	Fluoranthene, methyl	9.58	.18	mg/kg	J
	Unknown	10.47	.18	mg/kg	J
	Unknown	11.05	.26	mg/kg	J
	Unknown	11.13	.29	mg/kg	J
	Unknown	11.21	.34	mg/kg	J
	Unknown PHA substances	11.45	.35	mg/kg	J
	Unknown	11.53	.17	mg/kg	J
	Unknown PHA Susbtance	11.61	.96	mg/kg	J
	Unknown	11.87	.19	mg/kg	J
	Unknown	12.65	.19	mg/kg	J
	Unknown	12.77	.4	mg/kg	J
	Unknown	13.05	.24	mg/kg	J
	Unknown	13.09	.27	mg/kg	J
	Unknown	13.13	.17	mg/kg	J
	Unknown	13.43	.37	mg/kg	J
	Total TIC, Semi-Volatile		7.23	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6		
Lab Sample ID:	JD87833-6	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
		Percent Solids:	88.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	7860	56	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	2.5	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	29.8	23	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.29	0.23	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.56	0.56	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	1530	560	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	16.0	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.6	5.6	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	60.6	2.8	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	12400	56	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	13.6	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	2740	560	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	200	1.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.029	0.029	mg/kg	1	05/08/24	05/09/24	CB	SW846 7471B [1]	SW846 7471B [4]
Nickel	9.7	4.5	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.56	0.56	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	20.8	5.6	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	30.4	11	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56033
(2) Instrument QC Batch: MA56049
(3) Prep QC Batch: MP46464
(4) Prep QC Batch: MP46496

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-7		
Lab Sample ID:	JD87833-7	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ6539.D	1	05/10/24 00:35	RS	05/09/24 10:55	OP54460	ECJ297
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.071	0.018	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.18	0.022	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.18	0.030	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.18	0.064	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.18	0.13	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.18	0.038	mg/kg	
95-48-7	2-Methylphenol	ND	0.071	0.023	mg/kg	
	3&4-Methylphenol	ND	0.071	0.029	mg/kg	
88-75-5	2-Nitrophenol	ND	0.18	0.024	mg/kg	
100-02-7	4-Nitrophenol	ND	0.36	0.095	mg/kg	
87-86-5	Pentachlorophenol [a]	ND	0.14	0.034	mg/kg	
108-95-2	Phenol	ND	0.071	0.019	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.18	0.024	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.18	0.027	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.18	0.021	mg/kg	
83-32-9	Acenaphthene	0.104	0.036	0.012	mg/kg	
208-96-8	Acenaphthylene	0.345	0.036	0.018	mg/kg	
98-86-2	Acetophenone	ND	0.18	0.0077	mg/kg	
120-12-7	Anthracene	0.495	0.036	0.022	mg/kg	
1912-24-9	Atrazine	ND	0.071	0.015	mg/kg	
56-55-3	Benzo(a)anthracene	1.38	0.036	0.010	mg/kg	
50-32-8	Benzo(a)pyrene	1.56	0.036	0.016	mg/kg	
205-99-2	Benzo(b)fluoranthene	1.64	0.036	0.016	mg/kg	
191-24-2	Benzo(g,h,i)perylene	1.00	0.036	0.018	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.603	0.036	0.017	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.071	0.014	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.071	0.0087	mg/kg	
92-52-4	1,1'-Biphenyl	0.0126	0.071	0.0049	mg/kg	J
100-52-7	Benzaldehyde	ND	0.18	0.0089	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.071	0.0085	mg/kg	
106-47-8	4-Chloroaniline	ND	0.18	0.013	mg/kg	
86-74-8	Carbazole	0.0724	0.071	0.0052	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7		
Lab Sample ID:	JD87833-7	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.071	0.014	mg/kg	
218-01-9	Chrysene	1.25	0.036	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.071	0.0076	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.071	0.015	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.071	0.013	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.071	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.036	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.036	0.018	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.071	0.030	mg/kg	
123-91-1	1,4-Dioxane	ND	0.036	0.024	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.261	0.036	0.016	mg/kg	
132-64-9	Dibenzofuran	0.0663	0.071	0.015	mg/kg	J
84-74-2	Di-n-butyl phthalate	ND	0.071	0.0058	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.071	0.0089	mg/kg	
84-66-2	Diethyl phthalate	ND	0.071	0.0076	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.071	0.0064	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.071	0.0084	mg/kg	
206-44-0	Fluoranthene	2.39	0.036	0.016	mg/kg	
86-73-7	Fluorene	0.167	0.036	0.016	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.071	0.0090	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.036	0.014	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.36	0.014	mg/kg	
67-72-1	Hexachloroethane	ND	0.18	0.018	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.822	0.036	0.017	mg/kg	
78-59-1	Isophorone	ND	0.071	0.0076	mg/kg	
91-57-6	2-Methylnaphthalene	0.0265	0.036	0.0081	mg/kg	J
88-74-4	2-Nitroaniline	ND	0.18	0.0084	mg/kg	
99-09-2	3-Nitroaniline	ND	0.18	0.0089	mg/kg	
100-01-6	4-Nitroaniline	ND	0.18	0.0093	mg/kg	
91-20-3	Naphthalene	0.0383	0.036	0.010	mg/kg	
98-95-3	Nitrobenzene	ND	0.071	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.071	0.010	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.18	0.013	mg/kg	
85-01-8	Phenanthrene	1.05	0.036	0.012	mg/kg	
129-00-0	Pyrene	2.64	0.036	0.011	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.18	0.0091	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	66%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7		
Lab Sample ID:	JD87833-7	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	72%		10-96%
118-79-6	2,4,6-Tribromophenol	89%		10-123%
4165-60-0	Nitrobenzene-d5	72%		10-109%
321-60-8	2-Fluorobiphenyl	79%		11-109%
1718-51-0	Terphenyl-d14	79%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.25	.43	mg/kg	J
	Phenanthrene, methyl	8.32	.21	mg/kg	J
	Phenanthrene, methyl	8.35	.17	mg/kg	J
	Unknown	8.42	.62	mg/kg	J
	Unknown	8.60	.32	mg/kg	J
	Alkene	8.84	.3	mg/kg	J
	Unknown	8.91	.23	mg/kg	J
	Unknown	9.12	.28	mg/kg	J
	Pyrene, methyl	9.52	.33	mg/kg	J
	Pyrene, methyl	9.59	.18	mg/kg	J
243-46-9	Benzo[b]naphtho[2,3-d]thiophene	10.11	.18	mg/kg	JN
	Unknown	10.28	.18	mg/kg	J
	Unknown	11.05	.22	mg/kg	J
	Unknown	11.20	.25	mg/kg	J
	Unknown PHA Subtsance	11.45	.37	mg/kg	J
	Unknown	11.52	.2	mg/kg	J
	Unknown PHA susbtance	11.61	.83	mg/kg	J
	Unknown	11.87	.22	mg/kg	J
	Unknown	12.18	.18	mg/kg	J
	Unknown	12.67	.31	mg/kg	J
	Unknown	12.77	.34	mg/kg	J
	Unknown	13.06	.21	mg/kg	J
	Unknown	13.43	.45	mg/kg	J
	Unknown	13.85	.18	mg/kg	J
	Unknown	13.98	.25	mg/kg	J
	Total TIC, Semi-Volatile		7.44	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-7		
Lab Sample ID:	JD87833-7	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	91.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G56355.D	1	05/09/24 07:52	CP	05/08/24 18:21	OP54452	G8G2470
Run #2							

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00044	0.000086	mg/kg	
319-84-6	alpha-BHC	ND	0.00044	0.000050	mg/kg	
319-85-7	beta-BHC [a]	0.00015	0.00044	0.000064	mg/kg	JB
319-86-8	delta-BHC	ND	0.00044	0.000066	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00044	0.000077	mg/kg	
5103-71-9	alpha-Chlordane	0.00086	0.00044	0.000059	mg/kg	
5103-74-2	gamma-Chlordane	0.00044	0.00044	0.000066	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0013	0.00044	0.000059	mg/kg	
60-57-1	Dieldrin [a]	0.00015	0.00044	0.000070	mg/kg	J
72-54-8	4,4'-DDD	0.00069	0.00044	0.000046	mg/kg	
72-55-9	4,4'-DDE	0.00057	0.00044	0.000053	mg/kg	
50-29-3	4,4'-DDT [a]	0.00044	0.00044	0.000077	mg/kg	
72-20-8	Endrin	ND	0.00044	0.000064	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00044	0.000053	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00044	0.00013	mg/kg	
959-98-8	Endosulfan-I	ND	0.00044	0.000059	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00044	0.000061	mg/kg	
76-44-8	Heptachlor	ND	0.00044	0.000057	mg/kg	
1024-57-3	Heptachlor epoxide [a]	0.00030	0.00044	0.000079	mg/kg	J
72-43-5	Methoxychlor	ND	0.00044	0.00017	mg/kg	
53494-70-5	Endrin ketone	ND	0.00044	0.000070	mg/kg	
8001-35-2	Toxaphene	ND	0.0055	0.0036	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		46-145%
877-09-8	Tetrachloro-m-xylene	84%		46-145%
2051-24-3	Decachlorobiphenyl	58%		29-163%
2051-24-3	Decachlorobiphenyl	111%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-7		
Lab Sample ID:	JD87833-7	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	91.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G231745.D	1	05/09/24 09:40	MLC	05/08/24 18:21	OP54453	G2G6085
Run #2							

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.022	0.0093	mg/kg	
11104-28-2	Aroclor 1221	ND	0.022	0.0074	mg/kg	
11141-16-5	Aroclor 1232	ND	0.022	0.018	mg/kg	
53469-21-9	Aroclor 1242	ND	0.022	0.013	mg/kg	
12672-29-6	Aroclor 1248	ND	0.022	0.0047	mg/kg	
11097-69-1	Aroclor 1254	ND	0.022	0.0024	mg/kg	
11096-82-5	Aroclor 1260	ND	0.022	0.0076	mg/kg	
11100-14-4	Aroclor 1268	ND	0.022	0.0022	mg/kg	
37324-23-5	Aroclor 1262	ND	0.022	0.0018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		42-159%
877-09-8	Tetrachloro-m-xylene	77%		42-159%
2051-24-3	Decachlorobiphenyl	67%		18-154%
2051-24-3	Decachlorobiphenyl	110%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-7
Lab Sample ID: JD87833-7
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 05/03/24
Date Received: 05/03/24
Percent Solids: 91.2

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	8010	58	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	2.7	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	33.7	23	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.31	0.23	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.58	0.58	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	1710	580	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	9.7	1.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.8	5.8	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	10.2	2.9	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	12500	58	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	13.1	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1860	580	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	255	1.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.032	0.032	mg/kg	1	05/08/24	05/09/24	CB	SW846 7471B [1]	SW846 7471B [4]
Nickel	8.6	4.6	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1200	1200	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.58	0.58	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	20.5	5.8	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	30.0	12	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56033
(2) Instrument QC Batch: MA56049
(3) Prep QC Batch: MP46464
(4) Prep QC Batch: MP46496

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-8		
Lab Sample ID:	JD87833-8	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ6533.D	1	05/09/24 22:41	RS	05/09/24 10:55	OP54460	ECJ297
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.072	0.018	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.18	0.022	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.18	0.031	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.18	0.064	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.18	0.14	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.18	0.039	mg/kg	
95-48-7	2-Methylphenol	ND	0.072	0.023	mg/kg	
	3&4-Methylphenol	ND	0.072	0.030	mg/kg	
88-75-5	2-Nitrophenol	ND	0.18	0.024	mg/kg	
100-02-7	4-Nitrophenol	ND	0.36	0.096	mg/kg	
87-86-5	Pentachlorophenol [a]	ND	0.14	0.034	mg/kg	
108-95-2	Phenol	ND	0.072	0.019	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.18	0.024	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.18	0.027	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.18	0.022	mg/kg	
83-32-9	Acenaphthene	0.0510	0.036	0.012	mg/kg	
208-96-8	Acenaphthylene	0.132	0.036	0.018	mg/kg	
98-86-2	Acetophenone	ND	0.18	0.0078	mg/kg	
120-12-7	Anthracene	0.230	0.036	0.022	mg/kg	
1912-24-9	Atrazine	ND	0.072	0.015	mg/kg	
56-55-3	Benzo(a)anthracene	0.924	0.036	0.010	mg/kg	
50-32-8	Benzo(a)pyrene	0.948	0.036	0.016	mg/kg	
205-99-2	Benzo(b)fluoranthene	1.06	0.036	0.016	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.607	0.036	0.018	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.418	0.036	0.017	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.072	0.014	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.072	0.0088	mg/kg	
92-52-4	1,1'-Biphenyl	0.0062	0.072	0.0049	mg/kg	J
100-52-7	Benzaldehyde	ND	0.18	0.0090	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.072	0.0086	mg/kg	
106-47-8	4-Chloroaniline	ND	0.18	0.013	mg/kg	
86-74-8	Carbazole	0.0342	0.072	0.0052	mg/kg	JB

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8		
Lab Sample ID:	JD87833-8	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.072	0.014	mg/kg	
218-01-9	Chrysene	0.862	0.036	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.072	0.0077	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.072	0.016	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.072	0.013	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.072	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.036	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.036	0.018	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.072	0.030	mg/kg	
123-91-1	1,4-Dioxane	ND	0.036	0.024	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.159	0.036	0.016	mg/kg	
132-64-9	Dibenzofuran	0.0241	0.072	0.015	mg/kg	J
84-74-2	Di-n-butyl phthalate	ND	0.072	0.0059	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.072	0.0090	mg/kg	
84-66-2	Diethyl phthalate	ND	0.072	0.0077	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.072	0.0064	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.072	0.0084	mg/kg	
206-44-0	Fluoranthene	1.77	0.036	0.016	mg/kg	
86-73-7	Fluorene	0.0679	0.036	0.017	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.072	0.0091	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.036	0.015	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.36	0.014	mg/kg	
67-72-1	Hexachloroethane	ND	0.18	0.018	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.510	0.036	0.017	mg/kg	
78-59-1	Isophorone	ND	0.072	0.0077	mg/kg	
91-57-6	2-Methylnaphthalene	0.0103	0.036	0.0082	mg/kg	J
88-74-4	2-Nitroaniline	ND	0.18	0.0085	mg/kg	
99-09-2	3-Nitroaniline	ND	0.18	0.0090	mg/kg	
100-01-6	4-Nitroaniline	ND	0.18	0.0094	mg/kg	
91-20-3	Naphthalene	0.0171	0.036	0.010	mg/kg	J
98-95-3	Nitrobenzene	ND	0.072	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.072	0.010	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.18	0.013	mg/kg	
85-01-8	Phenanthrene	0.637	0.036	0.012	mg/kg	
129-00-0	Pyrene	1.73	0.036	0.012	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.18	0.0092	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8		
Lab Sample ID:	JD87833-8	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	65%		10-96%
118-79-6	2,4,6-Tribromophenol	79%		10-123%
4165-60-0	Nitrobenzene-d5	64%		10-109%
321-60-8	2-Fluorobiphenyl	69%		11-109%
1718-51-0	Terphenyl-d14	74%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.25	.27	mg/kg	J
203-64-5	4H-Cyclopenta[def]phenanthrene	8.42	.31	mg/kg	JN
	Unknown	8.60	.15	mg/kg	J
	Pyrene methyl	9.52	.21	mg/kg	J
	Unknown	11.05	.16	mg/kg	J
	Unknown	11.13	.18	mg/kg	J
	Unknown	11.20	.22	mg/kg	J
	Unknown PAH substance	11.45	.24	mg/kg	J
	Unknown PAH substance	11.61	.47	mg/kg	J
	Unknown PAH substance	12.77	.23	mg/kg	J
	Unknown PAH substance	13.42	.22	mg/kg	J
	Total TIC, Semi-Volatile		2.66	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-8		
Lab Sample ID:	JD87833-8	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	91.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G56356.D	1	05/09/24 08:13	CP	05/08/24 18:21	OP54452	G8G2470
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00041	0.000081	mg/kg	
319-84-6	alpha-BHC	ND	0.00041	0.000048	mg/kg	
319-85-7	beta-BHC [a]	0.00013	0.00041	0.000060	mg/kg	JB
319-86-8	delta-BHC	ND	0.00041	0.000062	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00041	0.000072	mg/kg	
5103-71-9	alpha-Chlordane	0.00055	0.00041	0.000056	mg/kg	
5103-74-2	gamma-Chlordane [a]	0.00021	0.00041	0.000062	mg/kg	J
57-74-9	Chlordane (alpha and gamma)	0.00076	0.00041	0.000056	mg/kg	
60-57-1	Dieldrin	ND	0.00041	0.000066	mg/kg	
72-54-8	4,4'-DDD	0.00050	0.00041	0.000043	mg/kg	
72-55-9	4,4'-DDE [a]	0.00022	0.00041	0.000050	mg/kg	J
50-29-3	4,4'-DDT [a]	0.00045	0.00041	0.000072	mg/kg	
72-20-8	Endrin	ND	0.00041	0.000060	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00041	0.000050	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00041	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00041	0.000056	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00041	0.000058	mg/kg	
76-44-8	Heptachlor	ND	0.00041	0.000054	mg/kg	
1024-57-3	Heptachlor epoxide [a]	0.00016	0.00041	0.000075	mg/kg	J
72-43-5	Methoxychlor	ND	0.00041	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00041	0.000066	mg/kg	
8001-35-2	Toxaphene	ND	0.0052	0.0034	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		46-145%
877-09-8	Tetrachloro-m-xylene	81%		46-145%
2051-24-3	Decachlorobiphenyl	50%		29-163%
2051-24-3	Decachlorobiphenyl	108%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-8		
Lab Sample ID:	JD87833-8	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	91.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G231746.D	1	05/09/24 10:04	MLC	05/08/24 18:21	OP54453	G2G6085
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.021	0.0088	mg/kg	
11104-28-2	Aroclor 1221	ND	0.021	0.0070	mg/kg	
11141-16-5	Aroclor 1232	ND	0.021	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.021	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.021	0.0045	mg/kg	
11097-69-1	Aroclor 1254	ND	0.021	0.0022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.021	0.0071	mg/kg	
11100-14-4	Aroclor 1268	ND	0.021	0.0021	mg/kg	
37324-23-5	Aroclor 1262	ND	0.021	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		42-159%
877-09-8	Tetrachloro-m-xylene	76%		42-159%
2051-24-3	Decachlorobiphenyl	66%		18-154%
2051-24-3	Decachlorobiphenyl	108%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8		
Lab Sample ID:	JD87833-8	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
		Percent Solids:	91.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	6880	55	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.2	2.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	2.6	2.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	24.1	22	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.29	0.22	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.55	0.55	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	1120	550	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	8.5	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.5	5.5	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	7.9	2.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	11000	55	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	10.2	2.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1590	550	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	197	1.6	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.035	0.035	mg/kg	1	05/08/24	05/09/24	CB	SW846 7471B [1]	SW846 7471B [4]
Nickel	7.6	4.4	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.55	0.55	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	16.9	5.5	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	25.8	11	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56033
(2) Instrument QC Batch: MA56049
(3) Prep QC Batch: MP46464
(4) Prep QC Batch: MP46496

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-9		
Lab Sample ID:	JD87833-9	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	81.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ6540.D	1	05/10/24 00:54	RS	05/09/24 10:55	OP54460	ECJ297
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.080	0.020	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.20	0.024	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.20	0.034	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.20	0.071	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.20	0.15	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.20	0.043	mg/kg	
95-48-7	2-Methylphenol	ND	0.080	0.026	mg/kg	
	3&4-Methylphenol	0.195	0.080	0.033	mg/kg	
88-75-5	2-Nitrophenol	ND	0.20	0.026	mg/kg	
100-02-7	4-Nitrophenol	ND	0.40	0.11	mg/kg	
87-86-5	Pentachlorophenol [a]	ND	0.16	0.038	mg/kg	
108-95-2	Phenol	ND	0.080	0.021	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.20	0.026	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.20	0.030	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.20	0.024	mg/kg	
83-32-9	Acenaphthene	0.0435	0.040	0.014	mg/kg	
208-96-8	Acenaphthylene	0.101	0.040	0.020	mg/kg	
98-86-2	Acetophenone	0.0230	0.20	0.0086	mg/kg	J
120-12-7	Anthracene	0.159	0.040	0.024	mg/kg	
1912-24-9	Atrazine	ND	0.080	0.017	mg/kg	
56-55-3	Benzo(a)anthracene	0.415	0.040	0.011	mg/kg	
50-32-8	Benzo(a)pyrene	0.480	0.040	0.018	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.587	0.040	0.018	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.310	0.040	0.020	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.154	0.040	0.019	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.080	0.015	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.080	0.0098	mg/kg	
92-52-4	1,1'-Biphenyl	0.0098	0.080	0.0055	mg/kg	J
100-52-7	Benzaldehyde	0.0232	0.20	0.0099	mg/kg	J
91-58-7	2-Chloronaphthalene	ND	0.080	0.0095	mg/kg	
106-47-8	4-Chloroaniline	ND	0.20	0.014	mg/kg	
86-74-8	Carbazole	0.0400	0.080	0.0058	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9		
Lab Sample ID:	JD87833-9	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	81.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.080	0.016	mg/kg	
218-01-9	Chrysene	0.453	0.040	0.013	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.080	0.0086	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.080	0.017	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.080	0.014	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.080	0.013	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.040	0.012	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.040	0.020	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.080	0.033	mg/kg	
123-91-1	1,4-Dioxane	ND	0.040	0.026	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0799	0.040	0.018	mg/kg	
132-64-9	Dibenzofuran	0.0241	0.080	0.016	mg/kg	J
84-74-2	Di-n-butyl phthalate	0.0108	0.080	0.0065	mg/kg	J
117-84-0	Di-n-octyl phthalate	ND	0.080	0.010	mg/kg	
84-66-2	Diethyl phthalate	ND	0.080	0.0085	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.080	0.0071	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0439	0.080	0.0094	mg/kg	J
206-44-0	Fluoranthene	0.888	0.040	0.018	mg/kg	
86-73-7	Fluorene	0.0546	0.040	0.018	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.080	0.010	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.040	0.016	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.40	0.016	mg/kg	
67-72-1	Hexachloroethane	ND	0.20	0.020	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.263	0.040	0.019	mg/kg	
78-59-1	Isophorone	ND	0.080	0.0086	mg/kg	
91-57-6	2-Methylnaphthalene	0.0152	0.040	0.0090	mg/kg	J
88-74-4	2-Nitroaniline	ND	0.20	0.0094	mg/kg	
99-09-2	3-Nitroaniline	ND	0.20	0.010	mg/kg	
100-01-6	4-Nitroaniline	ND	0.20	0.010	mg/kg	
91-20-3	Naphthalene	0.0239	0.040	0.011	mg/kg	J
98-95-3	Nitrobenzene	ND	0.080	0.015	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.080	0.012	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.20	0.015	mg/kg	
85-01-8	Phenanthrene	0.459	0.040	0.013	mg/kg	
129-00-0	Pyrene	0.896	0.040	0.013	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.20	0.010	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9		
Lab Sample ID:	JD87833-9	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	81.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	75%		10-96%
118-79-6	2,4,6-Tribromophenol	94%		10-123%
4165-60-0	Nitrobenzene-d5	75%		10-109%
321-60-8	2-Fluorobiphenyl	80%		11-109%
1718-51-0	Terphenyl-d14	83%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown acid	8.34	.48	mg/kg	J
	Unknown alcohol	9.05	1.2	mg/kg	J
57-11-4	Octadecanoic acid	9.12	.46	mg/kg	JN
	Unknown acid	9.84	.59	mg/kg	J
	Unknown	10.07	.48	mg/kg	J
1000267-71-7	Butanoic acid, 2-(cyano)(2,4,6-trimethyl	10.19	.55	mg/kg	JN
	Unknown alcohol	10.27	.55	mg/kg	J
112-85-6	Docosanoic acid	10.50	1.1	mg/kg	JN
	Unknown	10.91	.88	mg/kg	J
	Unknown acid	11.12	1.7	mg/kg	J
	Unknown	11.21	.43	mg/kg	J
	Alkane	11.52	2.4	mg/kg	J
	Unknown	12.01	1	mg/kg	J
	Unknown	12.13	.54	mg/kg	J
	Alkane	12.22	2.2	mg/kg	J
	Unknown	12.25	2.2	mg/kg	J
	Unknown	12.37	.45	mg/kg	J
	Unknown acid	12.54	.44	mg/kg	J
	Unknown	13.09	3	mg/kg	J
	Unknown	13.18	1.1	mg/kg	J
	Unknown	13.43	3.4	mg/kg	J
	Unknown	13.74	.64	mg/kg	J
	Unknown	14.01	.95	mg/kg	J
	Unknown	14.23	1.6	mg/kg	J
18206-97-8	Octacosyl acetate	14.44	.96	mg/kg	JN
	Total TIC, Semi-Volatile		29.3	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9		
Lab Sample ID:	JD87833-9	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
		Percent Solids:	81.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	11300	63	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.5	2.5	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	4.8	2.5	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	54.4	25	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.43	0.25	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.63	0.63	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	1760	630	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	14.2	1.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 6.3	6.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	15.8	3.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	14200	63	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	71.1	2.5	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1920	630	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	314	1.9	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.19	0.032	mg/kg	1	05/08/24	05/09/24	CB	SW846 7471B [1]	SW846 7471B [4]
Nickel	11.3	5.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1300	1300	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.5	2.5	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.63	0.63	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1300	1300	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.3	1.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	25.2	6.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	67.5	13	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56033
(2) Instrument QC Batch: MA56049
(3) Prep QC Batch: MP46464
(4) Prep QC Batch: MP46496

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-10		
Lab Sample ID:	JD87833-10	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	84.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ6534.D	1	05/09/24 23:00	RS	05/09/24 10:55	OP54460	ECJ297
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.078	0.019	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.19	0.024	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.19	0.033	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.19	0.069	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.19	0.15	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.19	0.042	mg/kg	
95-48-7	2-Methylphenol	ND	0.078	0.025	mg/kg	
	3&4-Methylphenol	0.0476	0.078	0.032	mg/kg	J
88-75-5	2-Nitrophenol	ND	0.19	0.026	mg/kg	
100-02-7	4-Nitrophenol	ND	0.39	0.10	mg/kg	
87-86-5	Pentachlorophenol [a]	ND	0.16	0.036	mg/kg	
108-95-2	Phenol	ND	0.078	0.020	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.19	0.026	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.19	0.029	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.19	0.023	mg/kg	
83-32-9	Acenaphthene	ND	0.039	0.013	mg/kg	
208-96-8	Acenaphthylene	0.0304	0.039	0.020	mg/kg	J
98-86-2	Acetophenone	ND	0.19	0.0083	mg/kg	
120-12-7	Anthracene	ND	0.039	0.024	mg/kg	
1912-24-9	Atrazine	ND	0.078	0.017	mg/kg	
56-55-3	Benzo(a)anthracene	0.0822	0.039	0.011	mg/kg	
50-32-8	Benzo(a)pyrene	0.0861	0.039	0.018	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.0943	0.039	0.017	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0626	0.039	0.019	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0387	0.039	0.018	mg/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	0.078	0.015	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.078	0.0095	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.078	0.0053	mg/kg	
100-52-7	Benzaldehyde	ND	0.19	0.0096	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.078	0.0092	mg/kg	
106-47-8	4-Chloroaniline	ND	0.19	0.014	mg/kg	
86-74-8	Carbazole	0.0072	0.078	0.0056	mg/kg	JB

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10		
Lab Sample ID:	JD87833-10	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	84.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.078	0.015	mg/kg	
218-01-9	Chrysene	0.0664	0.039	0.012	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.078	0.0083	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.078	0.017	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.078	0.014	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.078	0.013	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.039	0.012	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.039	0.019	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.078	0.032	mg/kg	
123-91-1	1,4-Dioxane	ND	0.039	0.026	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.039	0.017	mg/kg	
132-64-9	Dibenzofuran	ND	0.078	0.016	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.078	0.0063	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.078	0.0097	mg/kg	
84-66-2	Diethyl phthalate	ND	0.078	0.0083	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.078	0.0069	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.078	0.0091	mg/kg	
206-44-0	Fluoranthene	0.143	0.039	0.017	mg/kg	
86-73-7	Fluorene	ND	0.039	0.018	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.078	0.0098	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.039	0.016	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.39	0.015	mg/kg	
67-72-1	Hexachloroethane	ND	0.19	0.019	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0507	0.039	0.018	mg/kg	
78-59-1	Isophorone	ND	0.078	0.0083	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.039	0.0088	mg/kg	
88-74-4	2-Nitroaniline	ND	0.19	0.0092	mg/kg	
99-09-2	3-Nitroaniline	ND	0.19	0.0097	mg/kg	
100-01-6	4-Nitroaniline	ND	0.19	0.010	mg/kg	
91-20-3	Naphthalene	ND	0.039	0.011	mg/kg	
98-95-3	Nitrobenzene	ND	0.078	0.015	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.078	0.011	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.19	0.014	mg/kg	
85-01-8	Phenanthrene	0.0524	0.039	0.013	mg/kg	
129-00-0	Pyrene	0.142	0.039	0.012	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.19	0.0099	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	74%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10		
Lab Sample ID:	JD87833-10	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	84.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	79%		10-96%
118-79-6	2,4,6-Tribromophenol	98%		10-123%
4165-60-0	Nitrobenzene-d5	76%		10-109%
321-60-8	2-Fluorobiphenyl	82%		11-109%
1718-51-0	Terphenyl-d14	89%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.25	.38	mg/kg	J
57-10-3	n-Hexadecanoic acid	8.37	.67	mg/kg	JN
	Unknown acid	9.05	.2	mg/kg	J
57-11-4	Octadecanoic acid	9.12	.32	mg/kg	JN
506-30-9	Eicosanoic acid	9.83	.22	mg/kg	JN
	Unknown	10.07	.17	mg/kg	J
	Unknown	10.19	.18	mg/kg	J
	Cyclohexane alkyl	10.27	.32	mg/kg	J
57-11-4	Octadecanoic acid	10.49	.51	mg/kg	JN
	Alkene	10.91	.51	mg/kg	J
	Unknown	11.05	.18	mg/kg	J
	Unknown acid	11.11	.68	mg/kg	J
	Unknown	11.21	.3	mg/kg	J
	Unknown	11.52	.61	mg/kg	J
	Unknown	12.01	.23	mg/kg	J
	Unknown acid	12.12	.17	mg/kg	J
	Alkane	12.21	.21	mg/kg	J
	Unknown	13.04	.17	mg/kg	J
	Unknown	13.08	.9	mg/kg	J
	Unknown	13.17	.18	mg/kg	J
	Unknown	13.42	.78	mg/kg	J
	Unknown	13.72	.19	mg/kg	J
	Unknown	14.01	.22	mg/kg	J
	Unknown	14.08	.21	mg/kg	J
	Unknown	14.21	.32	mg/kg	J
	Total TIC, Semi-Volatile		8.83	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-10		
Lab Sample ID:	JD87833-10	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	84.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G56357.D	1	05/09/24 08:35	CP	05/08/24 18:21	OP54452	G8G2470
Run #2							

	Initial Weight	Final Volume
Run #1	5.5 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00043	0.000084	mg/kg	
319-84-6	alpha-BHC	ND	0.00043	0.000050	mg/kg	
319-85-7	beta-BHC	0.00015	0.00043	0.000063	mg/kg	JB
319-86-8	delta-BHC	ND	0.00043	0.000065	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00043	0.000076	mg/kg	
5103-71-9	alpha-Chlordane [a]	0.00017	0.00043	0.000058	mg/kg	J
5103-74-2	gamma-Chlordane	ND	0.00043	0.000065	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.00017	0.00043	0.000058	mg/kg	J
60-57-1	Dieldrin	ND	0.00043	0.000069	mg/kg	
72-54-8	4,4'-DDD	0.00017	0.00043	0.000045	mg/kg	J
72-55-9	4,4'-DDE	0.00024	0.00043	0.000052	mg/kg	J
50-29-3	4,4'-DDT [a]	0.000090	0.00043	0.000076	mg/kg	J
72-20-8	Endrin	ND	0.00043	0.000063	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00043	0.000052	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00043	0.00013	mg/kg	
959-98-8	Endosulfan-I	ND	0.00043	0.000058	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00043	0.000060	mg/kg	
76-44-8	Heptachlor	ND	0.00043	0.000056	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00043	0.000078	mg/kg	
72-43-5	Methoxychlor	ND	0.00043	0.00017	mg/kg	
53494-70-5	Endrin ketone	ND	0.00043	0.000069	mg/kg	
8001-35-2	Toxaphene	ND	0.0054	0.0036	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		46-145%
877-09-8	Tetrachloro-m-xylene	86%		46-145%
2051-24-3	Decachlorobiphenyl	58%		29-163%
2051-24-3	Decachlorobiphenyl	88%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-10		
Lab Sample ID:	JD87833-10	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	84.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G231747.D	1	05/09/24 10:28	MLC	05/08/24 18:21	OP54453	G2G6085
Run #2							

	Initial Weight	Final Volume
Run #1	5.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.022	0.0092	mg/kg	
11104-28-2	Aroclor 1221	ND	0.022	0.0073	mg/kg	
11141-16-5	Aroclor 1232	ND	0.022	0.018	mg/kg	
53469-21-9	Aroclor 1242	ND	0.022	0.013	mg/kg	
12672-29-6	Aroclor 1248	ND	0.022	0.0047	mg/kg	
11097-69-1	Aroclor 1254	ND	0.022	0.0023	mg/kg	
11096-82-5	Aroclor 1260	ND	0.022	0.0074	mg/kg	
11100-14-4	Aroclor 1268	ND	0.022	0.0022	mg/kg	
37324-23-5	Aroclor 1262	ND	0.022	0.0018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		42-159%
877-09-8	Tetrachloro-m-xylene	81%		42-159%
2051-24-3	Decachlorobiphenyl	68%		18-154%
2051-24-3	Decachlorobiphenyl	91%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-10
Lab Sample ID: JD87833-10
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 05/03/24
Date Received: 05/03/24
Percent Solids: 84.2

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	14000	58	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	4.3	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	37.8	23	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.45	0.23	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.58	0.58	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	817	580	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	13.8	1.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.8	5.8	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	6.8	2.9	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	14500	58	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	17.7	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1770	580	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	201	1.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.041	0.033	mg/kg	1	05/08/24	05/09/24	CB	SW846 7471B [1]	SW846 7471B [4]
Nickel	10.5	4.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1200	1200	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.58	0.58	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	22.6	5.8	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	35.2	12	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56033
(2) Instrument QC Batch: MA56049
(3) Prep QC Batch: MP46464
(4) Prep QC Batch: MP46496

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-11		
Lab Sample ID:	JD87833-11	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CJ6526.D	2	05/09/24 20:30	RS	05/09/24 10:55	OP54460	ECJ297
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.15	0.037	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.38	0.046	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.38	0.064	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.38	0.13	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.38	0.28	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.38	0.081	mg/kg	
95-48-7	2-Methylphenol	ND	0.15	0.048	mg/kg	
	3&4-Methylphenol	ND	0.15	0.062	mg/kg	
88-75-5	2-Nitrophenol	ND	0.38	0.050	mg/kg	
100-02-7	4-Nitrophenol	ND	0.75	0.20	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.30	0.071	mg/kg	
108-95-2	Phenol	ND	0.15	0.039	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.38	0.050	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.38	0.056	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.38	0.045	mg/kg	
83-32-9	Acenaphthene	ND	0.075	0.026	mg/kg	
208-96-8	Acenaphthylene	ND	0.075	0.038	mg/kg	
98-86-2	Acetophenone	ND	0.38	0.016	mg/kg	
120-12-7	Anthracene	ND	0.075	0.046	mg/kg	
1912-24-9	Atrazine	ND	0.15	0.032	mg/kg	
56-55-3	Benzo(a)anthracene	0.0914	0.075	0.021	mg/kg	
50-32-8	Benzo(a)pyrene	0.0985	0.075	0.034	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.116	0.075	0.033	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0842	0.075	0.038	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0412	0.075	0.035	mg/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	0.15	0.029	mg/kg	
85-68-7	Butyl benzyl phthalate [c]	0.0365	0.15	0.018	mg/kg	J
92-52-4	1,1'-Biphenyl	ND	0.15	0.010	mg/kg	
100-52-7	Benzaldehyde	ND	0.38	0.019	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.15	0.018	mg/kg	
106-47-8	4-Chloroaniline	ND	0.38	0.027	mg/kg	
86-74-8	Carbazole	0.0122	0.15	0.011	mg/kg	JB

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-11		
Lab Sample ID:	JD87833-11	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.15	0.030	mg/kg	
218-01-9	Chrysene	0.101	0.075	0.024	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.15	0.016	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.15	0.032	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.15	0.027	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.15	0.024	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.075	0.023	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.075	0.038	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.15	0.063	mg/kg	
123-91-1	1,4-Dioxane	ND	0.075	0.050	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.075	0.033	mg/kg	
132-64-9	Dibenzofuran	ND	0.15	0.031	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.15	0.012	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.15	0.019	mg/kg	
84-66-2	Diethyl phthalate	ND	0.15	0.016	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.15	0.013	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0281	0.15	0.018	mg/kg	J
206-44-0	Fluoranthene	0.167	0.075	0.034	mg/kg	
86-73-7	Fluorene	ND	0.075	0.035	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.15	0.019	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.075	0.030	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.75	0.030	mg/kg	
67-72-1	Hexachloroethane	ND	0.38	0.037	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0582	0.075	0.035	mg/kg	J
78-59-1	Isophorone	ND	0.15	0.016	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.075	0.017	mg/kg	
88-74-4	2-Nitroaniline	ND	0.38	0.018	mg/kg	
99-09-2	3-Nitroaniline	ND	0.38	0.019	mg/kg	
100-01-6	4-Nitroaniline	ND	0.38	0.019	mg/kg	
91-20-3	Naphthalene	ND	0.075	0.021	mg/kg	
98-95-3	Nitrobenzene	ND	0.15	0.029	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.15	0.022	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.38	0.028	mg/kg	
85-01-8	Phenanthrene	0.0899	0.075	0.025	mg/kg	
129-00-0	Pyrene	0.176	0.075	0.024	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.38	0.019	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-11		
Lab Sample ID:	JD87833-11	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	71%		10-96%
118-79-6	2,4,6-Tribromophenol	83%		10-123%
4165-60-0	Nitrobenzene-d5	69%		10-109%
321-60-8	2-Fluorobiphenyl	76%		11-109%
1718-51-0	Terphenyl-d14	80%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.25	.31	mg/kg	J
	Unknown	10.75	.38	mg/kg	J
	Unknown	11.11	.31	mg/kg	J
593-45-3	Octadecane	11.20	.42	mg/kg	JN
	Alkane	11.51	.36	mg/kg	J
	Alkane	12.21	.32	mg/kg	J
	Total TIC, Semi-Volatile		2.1	mg/kg	J

(a) Dilution required due to matrix interference.
(b) Associated CCV outside of control limits high, sample was ND.
(c) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-11		
Lab Sample ID:	JD87833-11	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	87.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G56434.D	1	05/10/24 15:41	CP	05/08/24 18:21	OP54452	G8G2472
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00043	0.000084	mg/kg	
319-84-6	alpha-BHC	ND	0.00043	0.000049	mg/kg	
319-85-7	beta-BHC	ND	0.00043	0.000062	mg/kg	
319-86-8	delta-BHC	ND	0.00043	0.000065	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00043	0.000075	mg/kg	
5103-71-9	alpha-Chlordane [a]	0.00099	0.00043	0.000058	mg/kg	
5103-74-2	gamma-Chlordane [a]	0.00034	0.00043	0.000065	mg/kg	J
57-74-9	Chlordane (alpha and gamma)	0.0013	0.00043	0.000058	mg/kg	
60-57-1	Dieldrin	ND	0.00043	0.000069	mg/kg	
72-54-8	4,4'-DDD	0.00069	0.00043	0.000045	mg/kg	
72-55-9	4,4'-DDE	0.0055	0.00043	0.000052	mg/kg	
50-29-3	4,4'-DDT [b]	0.0017	0.00043	0.000075	mg/kg	
72-20-8	Endrin	ND	0.00043	0.000062	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00043	0.000052	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00043	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00043	0.000058	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00043	0.000060	mg/kg	
76-44-8	Heptachlor	ND	0.00043	0.000056	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00043	0.000077	mg/kg	
72-43-5	Methoxychlor	ND	0.00043	0.00017	mg/kg	
53494-70-5	Endrin ketone	ND	0.00043	0.000069	mg/kg	
8001-35-2	Toxaphene	ND	0.0054	0.0035	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	98%		46-145%
877-09-8	Tetrachloro-m-xylene	80%		46-145%
2051-24-3	Decachlorobiphenyl	68%		29-163%
2051-24-3	Decachlorobiphenyl	83%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-11		
Lab Sample ID:	JD87833-11	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	87.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

being used for confirmation only.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-11		
Lab Sample ID:	JD87833-11	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	87.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G231748.D	1	05/09/24 10:52	MLC	05/08/24 18:21	OP54453	G2G6085
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.022	0.0091	mg/kg	
11104-28-2	Aroclor 1221	ND	0.022	0.0072	mg/kg	
11141-16-5	Aroclor 1232	ND	0.022	0.018	mg/kg	
53469-21-9	Aroclor 1242	ND	0.022	0.013	mg/kg	
12672-29-6	Aroclor 1248	ND	0.022	0.0046	mg/kg	
11097-69-1	Aroclor 1254	ND	0.022	0.0023	mg/kg	
11096-82-5	Aroclor 1260	ND	0.022	0.0074	mg/kg	
11100-14-4	Aroclor 1268	ND	0.022	0.0022	mg/kg	
37324-23-5	Aroclor 1262	ND	0.022	0.0018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		42-159%
877-09-8	Tetrachloro-m-xylene	80%		42-159%
2051-24-3	Decachlorobiphenyl	63%		18-154%
2051-24-3	Decachlorobiphenyl	96%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-11
Lab Sample ID: JD87833-11
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 05/03/24
Date Received: 05/03/24
Percent Solids: 87.7

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	8260	57	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	3.0	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	36.3	23	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.35	0.23	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.57	0.57	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	1840	570	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	11.9	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.7	5.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	12.9	2.9	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	13500	57	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	28.9	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1870	570	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	225	1.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.065	0.030	mg/kg	1	05/08/24	05/09/24	CB	SW846 7471B [1]	SW846 7471B [4]
Nickel	9.1	4.6	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.57	0.57	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	20.5	5.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	47.2	11	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56033
(2) Instrument QC Batch: MA56049
(3) Prep QC Batch: MP46464
(4) Prep QC Batch: MP46496

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-12		
Lab Sample ID:	JD87833-12	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	85.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ6535.D	1	05/09/24 23:19	RS	05/09/24 10:55	OP54460	ECJ297
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.078	0.019	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.19	0.024	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.19	0.033	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.19	0.069	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.19	0.15	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.19	0.042	mg/kg	
95-48-7	2-Methylphenol	ND	0.078	0.025	mg/kg	
	3&4-Methylphenol	0.0896	0.078	0.032	mg/kg	
88-75-5	2-Nitrophenol	ND	0.19	0.026	mg/kg	
100-02-7	4-Nitrophenol	ND	0.39	0.10	mg/kg	
87-86-5	Pentachlorophenol [a]	ND	0.16	0.037	mg/kg	
108-95-2	Phenol	ND	0.078	0.020	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.19	0.026	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.19	0.029	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.19	0.023	mg/kg	
83-32-9	Acenaphthene	ND	0.039	0.013	mg/kg	
208-96-8	Acenaphthylene	ND	0.039	0.020	mg/kg	
98-86-2	Acetophenone	ND	0.19	0.0084	mg/kg	
120-12-7	Anthracene	ND	0.039	0.024	mg/kg	
1912-24-9	Atrazine	ND	0.078	0.017	mg/kg	
56-55-3	Benzo(a)anthracene	0.0166	0.039	0.011	mg/kg	J
50-32-8	Benzo(a)pyrene	ND	0.039	0.018	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.0229	0.039	0.017	mg/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	0.039	0.019	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.039	0.018	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.078	0.015	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.078	0.0095	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.078	0.0053	mg/kg	
100-52-7	Benzaldehyde	0.0103	0.19	0.0096	mg/kg	J
91-58-7	2-Chloronaphthalene	ND	0.078	0.0093	mg/kg	
106-47-8	4-Chloroaniline	ND	0.19	0.014	mg/kg	
86-74-8	Carbazole	ND	0.078	0.0056	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-12		
Lab Sample ID:	JD87833-12	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	85.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.078	0.015	mg/kg	
218-01-9	Chrysene	0.0180	0.039	0.012	mg/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	0.078	0.0083	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.078	0.017	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.078	0.014	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.078	0.013	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.039	0.012	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.039	0.020	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.078	0.032	mg/kg	
123-91-1	1,4-Dioxane	ND	0.039	0.026	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.039	0.017	mg/kg	
132-64-9	Dibenzofuran	ND	0.078	0.016	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.078	0.0063	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.078	0.0097	mg/kg	
84-66-2	Diethyl phthalate	ND	0.078	0.0083	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.078	0.0069	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.078	0.0091	mg/kg	
206-44-0	Fluoranthene	0.0286	0.039	0.017	mg/kg	J
86-73-7	Fluorene	ND	0.039	0.018	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.078	0.0098	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.039	0.016	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.39	0.015	mg/kg	
67-72-1	Hexachloroethane	ND	0.19	0.019	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.039	0.018	mg/kg	
78-59-1	Isophorone	ND	0.078	0.0083	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.039	0.0088	mg/kg	
88-74-4	2-Nitroaniline	ND	0.19	0.0092	mg/kg	
99-09-2	3-Nitroaniline	ND	0.19	0.0097	mg/kg	
100-01-6	4-Nitroaniline	ND	0.19	0.010	mg/kg	
91-20-3	Naphthalene	ND	0.039	0.011	mg/kg	
98-95-3	Nitrobenzene	ND	0.078	0.015	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.078	0.011	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.19	0.014	mg/kg	
85-01-8	Phenanthrene	0.0163	0.039	0.013	mg/kg	J
129-00-0	Pyrene	0.0284	0.039	0.012	mg/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.19	0.0099	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	73%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-12		
Lab Sample ID:	JD87833-12	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	85.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	75%		10-96%
118-79-6	2,4,6-Tribromophenol	95%		10-123%
4165-60-0	Nitrobenzene-d5	76%		10-109%
321-60-8	2-Fluorobiphenyl	79%		11-109%
1718-51-0	Terphenyl-d14	86%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown alcohol	5.30	2.1	mg/kg	J
	Unknown	7.55	.24	mg/kg	J
57-10-3	n-Hexadecanoic acid	8.37	.53	mg/kg	JN
	Unknown acid	9.04	.84	mg/kg	J
57-11-4	Octadecanoic acid	9.13	.29	mg/kg	JN
506-30-9	Eicosanoic acid	9.83	.37	mg/kg	JN
	Unknown	10.09	.24	mg/kg	J
	Unknown	10.19	.32	mg/kg	J
	Unknown alcohol	10.27	.5	mg/kg	J
57-11-4	Octadecanoic acid	10.49	.69	mg/kg	JN
	Unknown acid	10.81	.32	mg/kg	J
	Unknown	10.91	.67	mg/kg	J
	Unknown	11.05	.44	mg/kg	J
	Unknown acid	11.11	.92	mg/kg	J
	Unknown	11.21	.29	mg/kg	J
	Unknown	11.52	.69	mg/kg	J
	Unknown	12.01	.88	mg/kg	J
	Unknown	12.12	.36	mg/kg	J
646-31-1	Tetracosane	12.21	.39	mg/kg	JN
	Unknown	12.24	.43	mg/kg	J
	Unknown	13.08	.67	mg/kg	J
	Unknown	13.17	.27	mg/kg	J
5076-20-0	Oxirane, tetramethyl-	13.24	.28	mg/kg	JN
	Unknown	13.41	1.5	mg/kg	J
	Unknown	14.21	.28	mg/kg	J
	Total TIC, Semi-Volatile		14.51	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-12		
Lab Sample ID:	JD87833-12	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	85.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G56359.D	1	05/09/24 09:19	CP	05/08/24 18:21	OP54452	G8G2470
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00043	0.000084	mg/kg	
319-84-6	alpha-BHC	ND	0.00043	0.000050	mg/kg	
319-85-7	beta-BHC	ND	0.00043	0.000063	mg/kg	
319-86-8	delta-BHC	ND	0.00043	0.000065	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00043	0.000076	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.00043	0.000058	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.00043	0.000065	mg/kg	
57-74-9	Chlordane (alpha and gamma)	ND	0.00043	0.000058	mg/kg	
60-57-1	Dieldrin	ND	0.00043	0.000069	mg/kg	
72-54-8	4,4'-DDD	ND	0.00043	0.000045	mg/kg	
72-55-9	4,4'-DDE	ND	0.00043	0.000052	mg/kg	
50-29-3	4,4'-DDT	ND	0.00043	0.000076	mg/kg	
72-20-8	Endrin	ND	0.00043	0.000063	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00043	0.000052	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00043	0.00013	mg/kg	
959-98-8	Endosulfan-I	ND	0.00043	0.000058	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00043	0.000061	mg/kg	
76-44-8	Heptachlor	ND	0.00043	0.000056	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00043	0.000078	mg/kg	
72-43-5	Methoxychlor	ND	0.00043	0.00017	mg/kg	
53494-70-5	Endrin ketone	ND	0.00043	0.000069	mg/kg	
8001-35-2	Toxaphene	ND	0.0054	0.0036	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		46-145%
877-09-8	Tetrachloro-m-xylene	89%		46-145%
2051-24-3	Decachlorobiphenyl	47%		29-163%
2051-24-3	Decachlorobiphenyl	81%		29-163%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-12		
Lab Sample ID:	JD87833-12	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	85.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G231749.D	1	05/09/24 11:15	MLC	05/08/24 18:21	OP54453	G2G6085
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.022	0.0092	mg/kg	
11104-28-2	Aroclor 1221	ND	0.022	0.0073	mg/kg	
11141-16-5	Aroclor 1232	ND	0.022	0.018	mg/kg	
53469-21-9	Aroclor 1242	ND	0.022	0.013	mg/kg	
12672-29-6	Aroclor 1248	ND	0.022	0.0047	mg/kg	
11097-69-1	Aroclor 1254	ND	0.022	0.0023	mg/kg	
11096-82-5	Aroclor 1260	ND	0.022	0.0075	mg/kg	
11100-14-4	Aroclor 1268	ND	0.022	0.0022	mg/kg	
37324-23-5	Aroclor 1262	ND	0.022	0.0018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	66%		42-159%
877-09-8	Tetrachloro-m-xylene	71%		42-159%
2051-24-3	Decachlorobiphenyl	54%		18-154%
2051-24-3	Decachlorobiphenyl	89%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-12		
Lab Sample ID:	JD87833-12	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
		Percent Solids:	85.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	16600	60	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.4	2.4	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	5.1	2.4	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	46.4	24	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.58	0.24	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.60	0.60	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	< 600	600	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	15.6	1.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 6.0	6.0	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	7.6	3.0	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	17000	60	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	21.1	2.4	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	2110	600	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	391	1.8	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.072	0.037	mg/kg	1	05/08/24	05/09/24	CB	SW846 7471B [1]	SW846 7471B [4]
Nickel	12.3	4.8	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1200	1200	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.4	2.4	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.60	0.60	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	25.8	6.0	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	43.0	12	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56033
(2) Instrument QC Batch: MA56049
(3) Prep QC Batch: MP46464
(4) Prep QC Batch: MP46496

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-13		
Lab Sample ID:	JD87833-13	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	85.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ6536.D	1	05/09/24 23:38	RS	05/09/24 10:55	OP54460	ECJ297
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.078	0.019	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.19	0.024	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.19	0.033	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.19	0.069	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.19	0.15	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.19	0.042	mg/kg	
95-48-7	2-Methylphenol	ND	0.078	0.025	mg/kg	
	3&4-Methylphenol	ND	0.078	0.032	mg/kg	
88-75-5	2-Nitrophenol	ND	0.19	0.026	mg/kg	
100-02-7	4-Nitrophenol	ND	0.39	0.10	mg/kg	
87-86-5	Pentachlorophenol [a]	ND	0.16	0.037	mg/kg	
108-95-2	Phenol	ND	0.078	0.020	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.19	0.026	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.19	0.029	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.19	0.023	mg/kg	
83-32-9	Acenaphthene	ND	0.039	0.013	mg/kg	
208-96-8	Acenaphthylene	ND	0.039	0.020	mg/kg	
98-86-2	Acetophenone	ND	0.19	0.0084	mg/kg	
120-12-7	Anthracene	ND	0.039	0.024	mg/kg	
1912-24-9	Atrazine	ND	0.078	0.017	mg/kg	
56-55-3	Benzo(a)anthracene	0.0370	0.039	0.011	mg/kg	J
50-32-8	Benzo(a)pyrene	0.0404	0.039	0.018	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.0492	0.039	0.017	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0329	0.039	0.019	mg/kg	J
207-08-9	Benzo(k)fluoranthene	0.0183	0.039	0.018	mg/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	0.078	0.015	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.078	0.0095	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.078	0.0053	mg/kg	
100-52-7	Benzaldehyde	ND	0.19	0.0096	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.078	0.0093	mg/kg	
106-47-8	4-Chloroaniline	ND	0.19	0.014	mg/kg	
86-74-8	Carbazole	0.0065	0.078	0.0056	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-13		
Lab Sample ID:	JD87833-13	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	85.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.078	0.015	mg/kg	
218-01-9	Chrysene	0.0394	0.039	0.012	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.078	0.0083	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.078	0.017	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.078	0.014	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.078	0.013	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.039	0.012	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.039	0.020	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.078	0.032	mg/kg	
123-91-1	1,4-Dioxane	ND	0.039	0.026	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.039	0.017	mg/kg	
132-64-9	Dibenzofuran	ND	0.078	0.016	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.078	0.0063	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.078	0.0097	mg/kg	
84-66-2	Diethyl phthalate	ND	0.078	0.0083	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.078	0.0069	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0107	0.078	0.0091	mg/kg	J
206-44-0	Fluoranthene	0.0789	0.039	0.017	mg/kg	
86-73-7	Fluorene	ND	0.039	0.018	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.078	0.0098	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.039	0.016	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.39	0.015	mg/kg	
67-72-1	Hexachloroethane	ND	0.19	0.019	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0272	0.039	0.018	mg/kg	J
78-59-1	Isophorone	ND	0.078	0.0083	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.039	0.0088	mg/kg	
88-74-4	2-Nitroaniline	ND	0.19	0.0092	mg/kg	
99-09-2	3-Nitroaniline	ND	0.19	0.0097	mg/kg	
100-01-6	4-Nitroaniline	ND	0.19	0.010	mg/kg	
91-20-3	Naphthalene	ND	0.039	0.011	mg/kg	
98-95-3	Nitrobenzene	ND	0.078	0.015	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.078	0.011	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.19	0.014	mg/kg	
85-01-8	Phenanthrene	0.0412	0.039	0.013	mg/kg	
129-00-0	Pyrene	0.0759	0.039	0.012	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.19	0.0099	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	74%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-13		
Lab Sample ID:	JD87833-13	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	85.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	76%		10-96%
118-79-6	2,4,6-Tribromophenol	97%		10-123%
4165-60-0	Nitrobenzene-d5	77%		10-109%
321-60-8	2-Fluorobiphenyl	82%		11-109%
1718-51-0	Terphenyl-d14	88%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.25	.42	mg/kg	J
57-10-3	n-Hexadecanoic acid	8.37	.17	mg/kg	JN
57-11-4	Octadecanoic acid	9.12	.17	mg/kg	JN
	Unknown acid	9.83	.23	mg/kg	J
	Unknown	10.27	.32	mg/kg	J
	Unknown acid	10.49	.46	mg/kg	J
	Unknown	10.91	.5	mg/kg	J
	Unknown	11.05	.41	mg/kg	J
	Unknown acid	11.11	.48	mg/kg	J
	Unknown	11.21	.17	mg/kg	J
	Unknown	11.52	.59	mg/kg	J
638-66-4	Octadecanal	12.01	.73	mg/kg	JN
	Alkane	12.21	.31	mg/kg	J
	Unknown	12.24	.19	mg/kg	J
	Unknown	12.97	.18	mg/kg	J
	Unknown	13.04	.25	mg/kg	J
	Unknown	13.08	2	mg/kg	J
	Unknown	13.17	.21	mg/kg	J
	Unknown	13.34	.4	mg/kg	J
	Unknown	13.41	1.5	mg/kg	J
	Unknown	13.66	.19	mg/kg	J
	Unknown	13.73	.46	mg/kg	J
	Unknown	14.00	.32	mg/kg	J
	Unknown	14.21	.46	mg/kg	J
	Unknown	14.43	.3	mg/kg	J
	Total TIC, Semi-Volatile		11.42	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-13
Lab Sample ID: JD87833-13
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 05/03/24
Date Received: 05/03/24
Percent Solids: 85.7

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	18600	57	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	5.4	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	45.8	23	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.50	0.23	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.57	0.57	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	905	570	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	18.9	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	5.7	5.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	8.6	2.9	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	20200	57	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	16.0	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	2680	570	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	257	1.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.036	0.031	mg/kg	1	05/08/24	05/09/24	CB	SW846 7471B [1]	SW846 7471B [4]
Nickel	13.5	4.6	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.57	0.57	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	31.5	5.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	44.0	11	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56033
(2) Instrument QC Batch: MA56049
(3) Prep QC Batch: MP46464
(4) Prep QC Batch: MP46496

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-14		
Lab Sample ID:	JD87833-14	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ6541.D	1	05/10/24 01:13	RS	05/09/24 10:55	OP54460	ECJ297
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.073	0.018	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.18	0.022	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.18	0.031	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.18	0.065	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.18	0.14	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.18	0.039	mg/kg	
95-48-7	2-Methylphenol	ND	0.073	0.023	mg/kg	
	3&4-Methylphenol	ND	0.073	0.030	mg/kg	
88-75-5	2-Nitrophenol	ND	0.18	0.024	mg/kg	
100-02-7	4-Nitrophenol	ND	0.37	0.097	mg/kg	
87-86-5	Pentachlorophenol [a]	ND	0.15	0.034	mg/kg	
108-95-2	Phenol	ND	0.073	0.019	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.18	0.024	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.18	0.027	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.18	0.022	mg/kg	
83-32-9	Acenaphthene	0.0420	0.037	0.013	mg/kg	
208-96-8	Acenaphthylene	0.0869	0.037	0.019	mg/kg	
98-86-2	Acetophenone	ND	0.18	0.0078	mg/kg	
120-12-7	Anthracene	0.150	0.037	0.022	mg/kg	
1912-24-9	Atrazine	ND	0.073	0.016	mg/kg	
56-55-3	Benzo(a)anthracene	0.497	0.037	0.010	mg/kg	
50-32-8	Benzo(a)pyrene	0.520	0.037	0.017	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.560	0.037	0.016	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.355	0.037	0.018	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.227	0.037	0.017	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.073	0.014	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.073	0.0089	mg/kg	
92-52-4	1,1'-Biphenyl	0.0066	0.073	0.0050	mg/kg	J
100-52-7	Benzaldehyde	ND	0.18	0.0091	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.073	0.0087	mg/kg	
106-47-8	4-Chloroaniline	ND	0.18	0.013	mg/kg	
86-74-8	Carbazole	0.0465	0.073	0.0053	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-14		
Lab Sample ID:	JD87833-14	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.073	0.014	mg/kg	
218-01-9	Chrysene	0.481	0.037	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.073	0.0078	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.073	0.016	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.073	0.013	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.073	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.037	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.037	0.018	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.073	0.030	mg/kg	
123-91-1	1,4-Dioxane	ND	0.037	0.024	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0892	0.037	0.016	mg/kg	
132-64-9	Dibenzofuran	0.0172	0.073	0.015	mg/kg	J
84-74-2	Di-n-butyl phthalate	ND	0.073	0.0060	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.073	0.0091	mg/kg	
84-66-2	Diethyl phthalate	ND	0.073	0.0078	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.073	0.0065	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0152	0.073	0.0085	mg/kg	J
206-44-0	Fluoranthene	0.973	0.037	0.016	mg/kg	
86-73-7	Fluorene	0.0452	0.037	0.017	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.073	0.0092	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.037	0.015	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.37	0.015	mg/kg	
67-72-1	Hexachloroethane	ND	0.18	0.018	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.289	0.037	0.017	mg/kg	
78-59-1	Isophorone	ND	0.073	0.0078	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.037	0.0083	mg/kg	
88-74-4	2-Nitroaniline	ND	0.18	0.0086	mg/kg	
99-09-2	3-Nitroaniline	ND	0.18	0.0091	mg/kg	
100-01-6	4-Nitroaniline	ND	0.18	0.0095	mg/kg	
91-20-3	Naphthalene	0.0109	0.037	0.010	mg/kg	J
98-95-3	Nitrobenzene	ND	0.073	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.073	0.011	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.18	0.013	mg/kg	
85-01-8	Phenanthrene	0.492	0.037	0.012	mg/kg	
129-00-0	Pyrene	0.974	0.037	0.012	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.18	0.0093	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	71%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-14		
Lab Sample ID:	JD87833-14	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	74%		10-96%
118-79-6	2,4,6-Tribromophenol	91%		10-123%
4165-60-0	Nitrobenzene-d5	71%		10-109%
321-60-8	2-Fluorobiphenyl	78%		11-109%
1718-51-0	Terphenyl-d14	80%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.25	.33	mg/kg	J
	Phenanthrene, methyl	8.32	.17	mg/kg	J
57-10-3	n-Hexadecanoic acid	8.37	.28	mg/kg	JN
203-64-5	4H-Cyclopenta[def]phenanthrene	8.42	.21	mg/kg	JN
	Unknown acid	9.06	.35	mg/kg	J
	Unknown	10.27	.18	mg/kg	J
	Unknown	10.91	.35	mg/kg	J
	Unknown	11.05	.16	mg/kg	J
	Unknown acid	11.11	.28	mg/kg	J
	Unknown	11.21	.27	mg/kg	J
	Unknown PHA Substance	11.45	.63	mg/kg	J
	Unknown	11.52	.49	mg/kg	J
	Unknown PHA Substance	11.61	.31	mg/kg	J
	Unknown	12.04	1.6	mg/kg	J
	Alkane	12.21	.25	mg/kg	J
	Unknown	12.48	.2	mg/kg	J
	Unknown	12.53	.34	mg/kg	J
	Unknown	12.67	.17	mg/kg	J
	Unknown	13.05	.24	mg/kg	J
	Unknown	13.09	.24	mg/kg	J
	Alkene	13.17	.24	mg/kg	J
	Unknown	13.42	.65	mg/kg	J
	Unknown	13.50	.42	mg/kg	J
	Total TIC, Semi-Volatile		8.36	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-14		
Lab Sample ID:	JD87833-14	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	90.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G56360.D	1	05/09/24 09:40	CP	05/08/24 18:21	OP54452	G8G2470
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00042	0.000081	mg/kg	
319-84-6	alpha-BHC	ND	0.00042	0.000048	mg/kg	
319-85-7	beta-BHC [a]	0.000090	0.00042	0.000060	mg/kg	JB
319-86-8	delta-BHC	ND	0.00042	0.000062	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00042	0.000073	mg/kg	
5103-71-9	alpha-Chlordane [a]	0.0044	0.00042	0.000056	mg/kg	
5103-74-2	gamma-Chlordane	0.0026	0.00042	0.000062	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0069	0.00042	0.000056	mg/kg	
60-57-1	Dieldrin	0.00061	0.00042	0.000067	mg/kg	
72-54-8	4,4'-DDD	0.0040	0.00042	0.000044	mg/kg	
72-55-9	4,4'-DDE	0.0090	0.00042	0.000050	mg/kg	
50-29-3	4,4'-DDT [b]	0.0029	0.00042	0.000073	mg/kg	
72-20-8	Endrin	ND	0.00042	0.000060	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00042	0.000050	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00042	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00042	0.000056	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00042	0.000058	mg/kg	
76-44-8	Heptachlor	ND	0.00042	0.000054	mg/kg	
1024-57-3	Heptachlor epoxide [a]	0.00076	0.00042	0.000075	mg/kg	
72-43-5	Methoxychlor	ND	0.00042	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00042	0.000067	mg/kg	
8001-35-2	Toxaphene	ND	0.0052	0.0034	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		46-145%
877-09-8	Tetrachloro-m-xylene	88%		46-145%
2051-24-3	Decachlorobiphenyl	61%		29-163%
2051-24-3	Decachlorobiphenyl	88%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-14		
Lab Sample ID:	JD87833-14	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	90.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

being used for confirmation only.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-14		
Lab Sample ID:	JD87833-14	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	90.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G231750.D	1	05/09/24 11:39	MLC	05/08/24 18:21	OP54453	G2G6085
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.021	0.0088	mg/kg	
11104-28-2	Aroclor 1221	ND	0.021	0.0070	mg/kg	
11141-16-5	Aroclor 1232	ND	0.021	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.021	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.021	0.0045	mg/kg	
11097-69-1	Aroclor 1254	ND	0.021	0.0022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.021	0.0072	mg/kg	
11100-14-4	Aroclor 1268	ND	0.021	0.0021	mg/kg	
37324-23-5	Aroclor 1262	ND	0.021	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		42-159%
877-09-8	Tetrachloro-m-xylene	79%		42-159%
2051-24-3	Decachlorobiphenyl	61%		18-154%
2051-24-3	Decachlorobiphenyl	96%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-14
Lab Sample ID: JD87833-14
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 05/03/24
Date Received: 05/03/24
Percent Solids: 90.7

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	7700	54	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.1	2.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	3.8	2.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	33.0	21	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.29	0.21	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.54	0.54	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	1770	540	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	10.2	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.4	5.4	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	10.9	2.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	11200	54	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	26.5	2.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1640	540	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	225	1.6	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.17	0.032	mg/kg	1	05/08/24	05/09/24	CB	SW846 7471B [1]	SW846 7471B [4]
Nickel	8.1	4.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.54	0.54	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	17.8	5.4	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	42.3	11	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56033
(2) Instrument QC Batch: MA56049
(3) Prep QC Batch: MP46464
(4) Prep QC Batch: MP46496

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUPE 1		
Lab Sample ID:	JD87833-15	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ6542.D	1	05/10/24 01:32	RS	05/09/24 10:55	OP54460	ECJ297
Run #2	CJ6681.D	5	05/13/24 10:23	KH	05/09/24 10:55	OP54460	ECJ302

	Initial Weight	Final Volume
Run #1	31.7 g	1.0 ml
Run #2	31.7 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.069	0.017	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.17	0.021	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.17	0.030	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.17	0.062	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.17	0.13	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.17	0.037	mg/kg	
95-48-7	2-Methylphenol	ND	0.069	0.022	mg/kg	
	3&4-Methylphenol	ND	0.069	0.029	mg/kg	
88-75-5	2-Nitrophenol	ND	0.17	0.023	mg/kg	
100-02-7	4-Nitrophenol	ND	0.35	0.093	mg/kg	
87-86-5	Pentachlorophenol [a]	ND	0.14	0.033	mg/kg	
108-95-2	Phenol	ND	0.069	0.018	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.17	0.023	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.17	0.026	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.17	0.021	mg/kg	
83-32-9	Acenaphthene	0.115	0.035	0.012	mg/kg	
208-96-8	Acenaphthylene	0.285	0.035	0.018	mg/kg	
98-86-2	Acetophenone	ND	0.17	0.0075	mg/kg	
120-12-7	Anthracene	0.566	0.035	0.021	mg/kg	
1912-24-9	Atrazine	ND	0.069	0.015	mg/kg	
56-55-3	Benzo(a)anthracene	1.82	0.035	0.0098	mg/kg	
50-32-8	Benzo(a)pyrene	1.96	0.035	0.016	mg/kg	
205-99-2	Benzo(b)fluoranthene	2.28	0.035	0.015	mg/kg	
191-24-2	Benzo(g,h,i)perylene	1.23	0.035	0.017	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.710	0.035	0.016	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.069	0.013	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.069	0.0085	mg/kg	
92-52-4	1,1'-Biphenyl	0.0096	0.069	0.0048	mg/kg	J
100-52-7	Benzaldehyde	ND	0.17	0.0086	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.069	0.0083	mg/kg	
106-47-8	4-Chloroaniline	ND	0.17	0.012	mg/kg	
86-74-8	Carbazole	0.0815	0.069	0.0050	mg/kg	B

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPE 1		
Lab Sample ID:	JD87833-15	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.069	0.014	mg/kg	
218-01-9	Chrysene	1.68	0.035	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.069	0.0074	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.069	0.015	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.069	0.012	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.069	0.011	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.035	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.035	0.017	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.069	0.029	mg/kg	
123-91-1	1,4-Dioxane	ND	0.035	0.023	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.327	0.035	0.015	mg/kg	
132-64-9	Dibenzofuran	0.0621	0.069	0.014	mg/kg	J
84-74-2	Di-n-butyl phthalate	ND	0.069	0.0057	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.069	0.0086	mg/kg	
84-66-2	Diethyl phthalate	ND	0.069	0.0074	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.069	0.0062	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.069	0.0081	mg/kg	
206-44-0	Fluoranthene	3.53 [b]	0.17	0.077	mg/kg	
86-73-7	Fluorene	0.155	0.035	0.016	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.069	0.0088	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.035	0.014	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.35	0.014	mg/kg	
67-72-1	Hexachloroethane	ND	0.17	0.017	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	1.04	0.035	0.016	mg/kg	
78-59-1	Isophorone	ND	0.069	0.0074	mg/kg	
91-57-6	2-Methylnaphthalene	0.0189	0.035	0.0078	mg/kg	J
88-74-4	2-Nitroaniline	ND	0.17	0.0082	mg/kg	
99-09-2	3-Nitroaniline	ND	0.17	0.0087	mg/kg	
100-01-6	4-Nitroaniline	ND	0.17	0.0090	mg/kg	
91-20-3	Naphthalene	0.0322	0.035	0.0098	mg/kg	J
98-95-3	Nitrobenzene	ND	0.069	0.013	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.069	0.010	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.17	0.013	mg/kg	
85-01-8	Phenanthrene	1.54	0.035	0.012	mg/kg	
129-00-0	Pyrene	3.35	0.035	0.011	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.17	0.0088	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	74%	66%	10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPE 1		
Lab Sample ID:	JD87833-15	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	77%	70%	10-96%
118-79-6	2,4,6-Tribromophenol	93%	84%	10-123%
4165-60-0	Nitrobenzene-d5	75%	67%	10-109%
321-60-8	2-Fluorobiphenyl	82%	75%	11-109%
1718-51-0	Terphenyl-d14	82%	80%	10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.25	.39	mg/kg	J
	Unknown	4.49	.19	mg/kg	J
	Unknown	4.82	.16	mg/kg	J
	Anthracene, methyl	8.32	.22	mg/kg	J
	Phenanthrene, methyl	8.35	.17	mg/kg	J
203-64-5	4H-Cyclopenta[def]phenanthrene	8.42	.61	mg/kg	JN
	Unknown	8.60	.3	mg/kg	J
	Phenanthrene, dimethyl	8.84	.2	mg/kg	J
	Unknown	8.91	.2	mg/kg	J
	Fluoranthene, methyl	9.52	.26	mg/kg	J
	Unknown	10.47	.16	mg/kg	J
	Unknown	11.05	.24	mg/kg	J
	Unknown	11.22	.26	mg/kg	J
	Unknown PHA Substance	11.45	.46	mg/kg	J
	Unknown	11.53	.2	mg/kg	J
	Unknown PHA Substance	11.62	1.1	mg/kg	J
	Unknown	11.88	.26	mg/kg	J
	Unknown	12.18	.16	mg/kg	J
	Unknown	12.66	.48	mg/kg	J
	Unknown	12.78	.45	mg/kg	J
	Unknown	13.06	.31	mg/kg	J
	Unknown	13.10	.29	mg/kg	J
	Unknown	13.14	.2	mg/kg	J
	Unknown	13.44	.61	mg/kg	J
	Unknown	13.98	.24	mg/kg	J
	Total TIC, Semi-Volatile		8.12	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUPE 1		
Lab Sample ID:	JD87833-15	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	90.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G56361.D	1	05/09/24 10:02	CP	05/08/24 18:21	OP54452	G8G2470
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00043	0.000084	mg/kg	
319-84-6	alpha-BHC	ND	0.00043	0.000050	mg/kg	
319-85-7	beta-BHC [a]	0.00013	0.00043	0.000063	mg/kg	JB
319-86-8	delta-BHC	ND	0.00043	0.000065	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00043	0.000075	mg/kg	
5103-71-9	alpha-Chlordane	0.00015	0.00043	0.000058	mg/kg	J
5103-74-2	gamma-Chlordane	ND	0.00043	0.000065	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.00015	0.00043	0.000058	mg/kg	J
60-57-1	Dieldrin	ND	0.00043	0.000069	mg/kg	
72-54-8	4,4'-DDD [a]	0.00021	0.00043	0.000045	mg/kg	J
72-55-9	4,4'-DDE	ND	0.00043	0.000052	mg/kg	
50-29-3	4,4'-DDT [a]	0.00027	0.00043	0.000075	mg/kg	J
72-20-8	Endrin	ND	0.00043	0.000063	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00043	0.000052	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00043	0.00013	mg/kg	
959-98-8	Endosulfan-I	ND	0.00043	0.000058	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00043	0.000060	mg/kg	
76-44-8	Heptachlor	ND	0.00043	0.000056	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00043	0.000078	mg/kg	
72-43-5	Methoxychlor	ND	0.00043	0.00017	mg/kg	
53494-70-5	Endrin ketone	ND	0.00043	0.000069	mg/kg	
8001-35-2	Toxaphene	ND	0.0054	0.0036	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		46-145%
877-09-8	Tetrachloro-m-xylene	83%		46-145%
2051-24-3	Decachlorobiphenyl	56%		29-163%
2051-24-3	Decachlorobiphenyl	107%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUPE 1		
Lab Sample ID:	JD87833-15	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	90.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G231755.D	1	05/09/24 13:39	MLC	05/08/24 18:21	OP54453	G2G6085
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.022	0.0092	mg/kg	
11104-28-2	Aroclor 1221	ND	0.022	0.0072	mg/kg	
11141-16-5	Aroclor 1232	ND	0.022	0.018	mg/kg	
53469-21-9	Aroclor 1242	ND	0.022	0.013	mg/kg	
12672-29-6	Aroclor 1248	ND	0.022	0.0047	mg/kg	
11097-69-1	Aroclor 1254	ND	0.022	0.0023	mg/kg	
11096-82-5	Aroclor 1260	ND	0.022	0.0074	mg/kg	
11100-14-4	Aroclor 1268	ND	0.022	0.0022	mg/kg	
37324-23-5	Aroclor 1262	ND	0.022	0.0018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		42-159%
877-09-8	Tetrachloro-m-xylene	82%		42-159%
2051-24-3	Decachlorobiphenyl	68%		18-154%
2051-24-3	Decachlorobiphenyl	109%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUPE 1
Lab Sample ID: JD87833-15
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 05/03/24
Date Received: 05/03/24
Percent Solids: 90.9

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	7590	58	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	2.5	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	24.8	23	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.29	0.23	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.58	0.58	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	942	580	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	8.9	1.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.8	5.8	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	8.0	2.9	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	10600	58	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	58.7	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1440	580	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	144	1.7	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.030	0.030	mg/kg	1	05/08/24	05/09/24	CB	SW846 7471B [1]	SW846 7471B [4]
Nickel	7.7	4.6	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1200	1200	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.58	0.58	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	21.9	5.8	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	28.7	12	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56033
(2) Instrument QC Batch: MA56049
(3) Prep QC Batch: MP46464
(4) Prep QC Batch: MP46496

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUPE 2		
Lab Sample ID:	JD87833-16	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ6537.D	1	05/09/24 23:57	RS	05/09/24 10:55	OP54460	ECJ297
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.072	0.018	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.18	0.022	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.18	0.031	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.18	0.064	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.18	0.14	mg/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	0.18	0.038	mg/kg	
95-48-7	2-Methylphenol	ND	0.072	0.023	mg/kg	
	3&4-Methylphenol	ND	0.072	0.030	mg/kg	
88-75-5	2-Nitrophenol	ND	0.18	0.024	mg/kg	
100-02-7	4-Nitrophenol	ND	0.36	0.096	mg/kg	
87-86-5	Pentachlorophenol [a]	ND	0.14	0.034	mg/kg	
108-95-2	Phenol	ND	0.072	0.019	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.18	0.024	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.18	0.027	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.18	0.021	mg/kg	
83-32-9	Acenaphthene	0.0400	0.036	0.012	mg/kg	
208-96-8	Acenaphthylene	0.192	0.036	0.018	mg/kg	
98-86-2	Acetophenone	ND	0.18	0.0077	mg/kg	
120-12-7	Anthracene	0.250	0.036	0.022	mg/kg	
1912-24-9	Atrazine	ND	0.072	0.015	mg/kg	
56-55-3	Benzo(a)anthracene	0.988	0.036	0.010	mg/kg	
50-32-8	Benzo(a)pyrene	1.01	0.036	0.016	mg/kg	
205-99-2	Benzo(b)fluoranthene	1.26	0.036	0.016	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.624	0.036	0.018	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.329	0.036	0.017	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.072	0.014	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.072	0.0088	mg/kg	
92-52-4	1,1'-Biphenyl	0.0077	0.072	0.0049	mg/kg	J
100-52-7	Benzaldehyde	0.0092	0.18	0.0089	mg/kg	J
91-58-7	2-Chloronaphthalene	ND	0.072	0.0086	mg/kg	
106-47-8	4-Chloroaniline	ND	0.18	0.013	mg/kg	
86-74-8	Carbazole	0.0416	0.072	0.0052	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPE 2		
Lab Sample ID:	JD87833-16	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.072	0.014	mg/kg	
218-01-9	Chrysene	0.959	0.036	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.072	0.0077	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.072	0.015	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.072	0.013	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.072	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.036	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.036	0.018	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.072	0.030	mg/kg	
123-91-1	1,4-Dioxane	ND	0.036	0.024	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.175	0.036	0.016	mg/kg	
132-64-9	Dibenzofuran	0.0251	0.072	0.015	mg/kg	J
84-74-2	Di-n-butyl phthalate	ND	0.072	0.0059	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.072	0.0090	mg/kg	
84-66-2	Diethyl phthalate	ND	0.072	0.0077	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.072	0.0064	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.072	0.0084	mg/kg	
206-44-0	Fluoranthene	1.65	0.036	0.016	mg/kg	
86-73-7	Fluorene	0.0613	0.036	0.017	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.072	0.0091	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.036	0.014	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.36	0.014	mg/kg	
67-72-1	Hexachloroethane	ND	0.18	0.018	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.535	0.036	0.017	mg/kg	
78-59-1	Isophorone	ND	0.072	0.0077	mg/kg	
91-57-6	2-Methylnaphthalene	0.0157	0.036	0.0081	mg/kg	J
88-74-4	2-Nitroaniline	ND	0.18	0.0085	mg/kg	
99-09-2	3-Nitroaniline	ND	0.18	0.0090	mg/kg	
100-01-6	4-Nitroaniline	ND	0.18	0.0093	mg/kg	
91-20-3	Naphthalene	0.0216	0.036	0.010	mg/kg	J
98-95-3	Nitrobenzene	ND	0.072	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.072	0.010	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.18	0.013	mg/kg	
85-01-8	Phenanthrene	0.572	0.036	0.012	mg/kg	
129-00-0	Pyrene	1.66	0.036	0.012	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.18	0.0091	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPE 2		
Lab Sample ID:	JD87833-16	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	74%		10-96%
118-79-6	2,4,6-Tribromophenol	90%		10-123%
4165-60-0	Nitrobenzene-d5	72%		10-109%
321-60-8	2-Fluorobiphenyl	76%		11-109%
1718-51-0	Terphenyl-d14	80%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.25	.3	mg/kg	J
	Unknown	4.49	.17	mg/kg	J
57-10-3	n-Hexadecanoic acid	8.37	.25	mg/kg	JN
203-64-5	4H-Cyclopenta[def]phenanthrene	8.42	.35	mg/kg	JN
	Unknown	8.60	.17	mg/kg	J
	Unknown	9.05	.2	mg/kg	J
	Unknown	9.52	.21	mg/kg	J
	Unknown	9.62	.21	mg/kg	J
	Unknown	10.49	.23	mg/kg	J
	Unknown	10.91	.32	mg/kg	J
	Unknown	11.05	.24	mg/kg	J
	Unknown acid	11.12	.29	mg/kg	J
	Unknown	11.21	.3	mg/kg	J
	Unknown	11.26	.17	mg/kg	J
	Unknown PHA Substance	11.45	.37	mg/kg	J
	Alkane	11.51	.86	mg/kg	J
	Unknown PHA Substance	11.61	.56	mg/kg	J
	Unknown	11.87	.21	mg/kg	J
	Unknown	12.01	.7	mg/kg	J
	Alkane	12.21	.67	mg/kg	J
	Unknown	12.25	.27	mg/kg	J
	Unknown	12.48	.24	mg/kg	J
	Unknown	12.77	.21	mg/kg	J
	Unknown	13.09	.41	mg/kg	J
	Unknown	13.42	.94	mg/kg	J
	Total TIC, Semi-Volatile		8.85	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUPE 2		
Lab Sample ID:	JD87833-16	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	91.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G56362.D	1	05/09/24 10:24	CP	05/08/24 18:21	OP54452	G8G2470
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00042	0.000082	mg/kg	
319-84-6	alpha-BHC	ND	0.00042	0.000048	mg/kg	
319-85-7	beta-BHC	ND	0.00042	0.000061	mg/kg	
319-86-8	delta-BHC	ND	0.00042	0.000063	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00042	0.000073	mg/kg	
5103-71-9	alpha-Chlordane	0.0013	0.00042	0.000057	mg/kg	
5103-74-2	gamma-Chlordane	0.00068	0.00042	0.000063	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0020	0.00042	0.000057	mg/kg	
60-57-1	Dieldrin	0.00028	0.00042	0.000067	mg/kg	J
72-54-8	4,4'-DDD [a]	0.00073	0.00042	0.000044	mg/kg	
72-55-9	4,4'-DDE	0.0044	0.00042	0.000050	mg/kg	
50-29-3	4,4'-DDT [b]	0.00093	0.00042	0.000073	mg/kg	
72-20-8	Endrin	ND	0.00042	0.000061	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00042	0.000050	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00042	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00042	0.000057	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00042	0.000059	mg/kg	
76-44-8	Heptachlor	ND	0.00042	0.000054	mg/kg	
1024-57-3	Heptachlor epoxide	0.00034	0.00042	0.000075	mg/kg	J
72-43-5	Methoxychlor	ND	0.00042	0.00017	mg/kg	
53494-70-5	Endrin ketone	ND	0.00042	0.000067	mg/kg	
8001-35-2	Toxaphene	ND	0.0052	0.0035	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	59%		46-145%
877-09-8	Tetrachloro-m-xylene	89%		46-145%
2051-24-3	Decachlorobiphenyl	46%		29-163%
2051-24-3	Decachlorobiphenyl	106%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPE 2		
Lab Sample ID:	JD87833-16	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	91.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUPE 2		
Lab Sample ID:	JD87833-16	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	91.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G231756.D	1	05/09/24 14:03	MLC	05/08/24 18:21	OP54453	G2G6085
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.021	0.0089	mg/kg	
11104-28-2	Aroclor 1221	ND	0.021	0.0070	mg/kg	
11141-16-5	Aroclor 1232	ND	0.021	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.021	0.013	mg/kg	
12672-29-6	Aroclor 1248	ND	0.021	0.0045	mg/kg	
11097-69-1	Aroclor 1254	ND	0.021	0.0023	mg/kg	
11096-82-5	Aroclor 1260	ND	0.021	0.0072	mg/kg	
11100-14-4	Aroclor 1268	ND	0.021	0.0021	mg/kg	
37324-23-5	Aroclor 1262	ND	0.021	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		42-159%
877-09-8	Tetrachloro-m-xylene	78%		42-159%
2051-24-3	Decachlorobiphenyl	67%		18-154%
2051-24-3	Decachlorobiphenyl	88%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUPE 2		
Lab Sample ID:	JD87833-16	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
		Percent Solids:	91.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	7630	53	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.1	2.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	3.2	2.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	31.3	21	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.30	0.21	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.53	0.53	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	2440	530	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	10.9	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.3	5.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	9.5	2.6	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	10500	53	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	30.2	2.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1550	530	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	211	1.6	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.15	0.032	mg/kg	1	05/08/24	05/09/24	CB	SW846 7471B [1]	SW846 7471B [4]
Nickel	7.6	4.2	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.53	0.53	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	17.4	5.3	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	36.3	11	mg/kg	1	05/08/24	05/09/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56033
(2) Instrument QC Batch: MA56049
(3) Prep QC Batch: MP46464
(4) Prep QC Batch: MP46497

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	JD87833-17	**Date Sampled:**	05/03/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ6555.D	1	05/10/24 12:26	KM	05/09/24 11:00	OP54467	ECJ298
Run #2 [a]	M195578.D	1	05/14/24 12:23	KH	05/13/24 20:30	OP54618	EM8483

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol [b]	ND	5.0	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol [b]	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
88-75-5	2-Nitrophenol [b]	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol [b]	ND	4.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol [b]	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate [b]	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	JD87833-17	**Date Sampled:**	05/03/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine [b]	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate [b]	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%	39%	10-71%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	JD87833-17	**Date Sampled:**	05/03/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	05/03/24
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	25%	26%	10-58%
118-79-6	2,4,6-Tribromophenol	75%	83%	22-144%
4165-60-0	Nitrobenzene-d5	66%	74%	28-118%
321-60-8	2-Fluorobiphenyl	65%	83%	34-116%
1718-51-0	Terphenyl-d14	52%	67%	10-127%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	11.02	7.8	ug/l	J
	Total TIC, Semi-Volatile		7.8	ug/l	J

(a) Sample extracted outside the holding time. Confirmation run.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	JD87833-17	**Date Sampled:**	05/03/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	05/03/24
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1G196210.D	1	05/08/24 04:14	CP	05/07/24 11:00	OP54399	G1G7004
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0080	0.0041	ug/l	
319-84-6	alpha-BHC	ND	0.0080	0.0042	ug/l	
319-85-7	beta-BHC	ND	0.0080	0.0064	ug/l	
319-86-8	delta-BHC	ND	0.0080	0.0053	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0080	0.0048	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0080	0.0039	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0080	0.0034	ug/l	
57-74-9	Chlordane (alpha and gamma)	ND	0.0080	0.0034	ug/l	
60-57-1	Dieldrin	ND	0.0080	0.0061	ug/l	
72-54-8	4,4'-DDD	ND	0.0080	0.0046	ug/l	
72-55-9	4,4'-DDE	ND	0.0080	0.0040	ug/l	
50-29-3	4,4'-DDT	0.020	0.0080	0.0055	ug/l	B
72-20-8	Endrin	ND	0.0080	0.0048	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0080	0.0044	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0080	0.0054	ug/l	
53494-70-5	Endrin ketone	ND	0.0080	0.0050	ug/l	
959-98-8	Endosulfan-I	ND	0.0080	0.0042	ug/l	
33213-65-9	Endosulfan-II	ND	0.0080	0.0039	ug/l	
76-44-8	Heptachlor	ND	0.0080	0.0036	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0080	0.0048	ug/l	
72-43-5	Methoxychlor	ND	0.016	0.0054	ug/l	
8001-35-2	Toxaphene	ND	0.20	0.13	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	54%		10-175%
877-09-8	Tetrachloro-m-xylene	55%		10-175%
2051-24-3	Decachlorobiphenyl	28%		10-128%
2051-24-3	Decachlorobiphenyl	25%		10-128%

(a) Detection likely due to lab contamination.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	JD87833-17	**Date Sampled:**	05/03/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	05/03/24
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G141341.D	1	05/08/24 04:26	CP	05/07/24 11:00	OP54400	G3G5173
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.40	0.16	ug/l	
11104-28-2	Aroclor 1221	ND	0.40	0.34	ug/l	
11141-16-5	Aroclor 1232	ND	0.40	0.21	ug/l	
53469-21-9	Aroclor 1242	ND	0.40	0.37	ug/l	
12672-29-6	Aroclor 1248	ND	0.40	0.35	ug/l	
11097-69-1	Aroclor 1254	ND	0.40	0.33	ug/l	
11096-82-5	Aroclor 1260 [a]	ND	0.40	0.33	ug/l	
11100-14-4	Aroclor 1268	ND	0.40	0.14	ug/l	
37324-23-5	Aroclor 1262	ND	0.40	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	46%		10-169%
877-09-8	Tetrachloro-m-xylene	46%		10-169%
2051-24-3	Decachlorobiphenyl	19%		10-130%
2051-24-3	Decachlorobiphenyl	18%		10-130%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	JD87833-17	**Date Sampled:**	05/03/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	05/03/24
		Percent Solids:	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Antimony	< 6.0	6.0	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Calcium	< 5000	5000	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Copper	< 10	10	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Iron	< 100	100	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Magnesium	< 5000	5000	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Manganese	< 15	15	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	05/07/24	05/08/24	MK	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 10	10	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Potassium	< 10000	10000	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Sodium	< 10000	10000	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Vanadium	< 50	50	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	05/07/24	05/08/24	MM	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA56021
(2) Instrument QC Batch: MA56025
(3) Prep QC Batch: MP46431
(4) Prep QC Batch: MP46448

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	JD87833-17R	**Date Sampled:**	05/03/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	05/03/24
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1G196431.D	1	05/15/24 11:49	MLC	05/13/24 14:30	OP54554	G1G7016
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	2.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0067	0.0034	ug/l	
319-84-6	alpha-BHC	ND	0.0067	0.0035	ug/l	
319-85-7	beta-BHC	ND	0.0067	0.0053	ug/l	
319-86-8	delta-BHC	ND	0.0067	0.0044	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0067	0.0040	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0067	0.0033	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0067	0.0028	ug/l	
57-74-9	Chlordane (alpha and gamma)	ND	0.0067	0.0028	ug/l	
60-57-1	Dieldrin	ND	0.0067	0.0051	ug/l	
72-54-8	4,4'-DDD	ND	0.0067	0.0038	ug/l	
72-55-9	4,4'-DDE	ND	0.0067	0.0034	ug/l	
50-29-3	4,4'-DDT	0.0048	0.0067	0.0046	ug/l	J
72-20-8	Endrin	ND	0.0067	0.0040	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0067	0.0036	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0067	0.0045	ug/l	
53494-70-5	Endrin ketone	ND	0.0067	0.0041	ug/l	
959-98-8	Endosulfan-I	ND	0.0067	0.0035	ug/l	
33213-65-9	Endosulfan-II	ND	0.0067	0.0033	ug/l	
76-44-8	Heptachlor	ND	0.0067	0.0030	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0067	0.0040	ug/l	
72-43-5	Methoxychlor	ND	0.013	0.0045	ug/l	
8001-35-2	Toxaphene	ND	0.17	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		10-175%
877-09-8	Tetrachloro-m-xylene	92%		10-175%
2051-24-3	Decachlorobiphenyl	29%		10-128%
2051-24-3	Decachlorobiphenyl	27%		10-128%

(a) Sample extracted outside the holding time. Detections likely due to lab contamination.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

Page 1 of 2

5, AQ FB

FED-EX Tracking #
Bottle Order Control # DREM-TM-05124-184
SGS Quote #
SGS Job # JD87833

Client / Reporting Information

Company Name: Matrix New World
Street Address: 26 Columbia Tpke
City: Florham Park State: NJ Zip:
Project Contact: mfeury@mnwc.com E-mail:
Phone #: 201-657-2638
Sampler(s) Name(s): Kerry Murphy Phone #: 973-818-1586

Project Information

Project Name: Ridgewood Berm Sampling
Street:
City: Ridgewood State: NJ
Project #: 23-1429
Client Purchase Order #:
Project Manager: Melissa Feury
Attention:

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	TCL SVOC's	TAL Metals	TCL Pesticides	PCB's	LAB USE ONLY
1	SB-1		5/3/24	0830	KM	G	N	S	1					1				X	X	X	X	D81
2	SB-2			0835	KM	G	N	S	1					1				X	X			E91
3	SB-3			0840	KM	G	N	S	1					1				X	X	X	X	A12
4	SB-4			0900	KM	G	N	S	1					1				X	X	X	X	
5	SB-5			0905	KM	G	N	S	1					1				X	X	X	X	
6	SB-6			0910	KM	G	N	S	1					1				X	X			
7	SB-7			0920	KM	G	N	S	1					1				X	X	X	X	
8	SB-8			0930	KM	G	N	S	1					1				X	X	X	X	
9	SB-9			0935	KM	G	N	S	1					1				X	X			
10	SB-10			0950	KM	G	N	S	1					1				X	X	X	X	
11	SB-11			1000	KM	G	N	S	1					1				X	X	X	X	
12	SB-12			1015	KM	C	N	S	1					1				X	X	X	X	

pH Check (Lab Use Only)

Turn Around Time (Business Days)

Approved By (SGS PM) / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via SGS Engage

* Approval needed for 1-3 BD TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [X] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Initial Assessment 3BHR
•2x300ml
http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:
1		5/3/24 1530	
	Relinquished By:	Date / Time:	Received By:
2		5/3/24 1530	
3			
4			
5			

Custody Seal # ☐ Intact ☐ Not Intact ☐ Absent

Therm ID: On Ice Cooler Temp. °C
See Sample Receipt Summary ☐

2.1 °C 2.2 °C IR50

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

FED-EX Tracking # | Bottle Order Control #
SGS Quote # | SGS Job #

Client / Reporting Information

Company Name: Matrix New World
Street Address: 26 Columbia Tpke.
City: Florham Park State: NJ Zip:
Project Contact: mfeury@mnw.com E-mail:
Phone #: 201-057-2638
Sampler(s) Name(s): E. Murphy Phone #: 973-229-3401

Project Information

Project Name: Ridgewood Berm Sampling
Street:
City: Ridgewood State: NJ
Project #: 23-1429
Client Purchase Order #:
Project Manager: Melissa Feury
Attention:

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:

TCL SVOCs | TAL Metals | TCL Pesticides | PCBs

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	Number of Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	EnCore	pH Check (Lab Use Only)	LAB USE ONLY
13	SB-13		5/3/24	1030	KM	G	N	S	1					1				X X	
14	SB-14			1035	KM	G	N	S	1					1				X X X X	
15	Dupe 1				KM	G	N	S	1					1				X X X X	
16	Dupe 2				KM	G	N	S	1					1				X X X X	
17	• Field Blank	ø		1100	KM		N	W	5			1		4				X X X X	

Turn Around Time (Business Days)

Approved By (SGS PM) / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via SGS Engage

* Approval needed for 1-3 BD TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [X] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results only, Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

• 2x 300mL AMBER

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:
1	[signature]	5/3/24 1539	[signature]
2	[signature]	5/3/24 1539	[signature]
3			
4			
5			

Date / Time: 5/3/24 17:58 | Received By: 2
Date / Time: | Received By: 4

Custody Seal # | Intact | Not intact | Absent | Therm ID: | On Ice | Cooler Temp. °C | See Sample Receipt Summary

EHSA-QAC-0023-05 Rev.Date:8/5/22

3 Coolers / TR 50 21 x2 / SGS Courier

SGS Sample Receipt Summary

Job Number: JD87833 **Client:** MATRIX NEW WORLD ENGINEERING, IN **Project:** RIDGEWOOD BERM SAMPLING, RIDGE

Date / Time Received: 5/3/2024 5:08:00 PM **Delivery Method:** SGS COURIER **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.1); Cooler 2: (2.2);

Cooler Temps (Corrected) °C: Cooler 1: (2.5); Cooler 2: (2.6);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD87833

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD87833-1 SB-1	Collected: 03-MAY-24 08:30 By: KM		Received: 03-MAY-24 By: AR			
JD87833-1	SM2540 G 18TH ED MOD	09-MAY-24 17:00	SC			SOL104
JD87833-1	SW846 8081B	09-MAY-24 06:24	CP	08-MAY-24	ED	P8081PESTTCL
JD87833-1	SW846 8082A	09-MAY-24 06:27	MLC	08-MAY-24	ED	P8082PCB11AO
JD87833-1	SW846 7471B	09-MAY-24 17:05	CB	08-MAY-24	MK	HG
JD87833-1	SW846 6010D	09-MAY-24 19:25	MM	08-MAY-24	BP	AG, AL, AS, BA, BE, CA, CD, CO, CR, CU, FE, K, MG, MN, NA, NI, PB, SB, SE, TL, V, ZN
JD87833-1	SW846 8270E	10-MAY-24 00:16	RS	09-MAY-24	EB	AB8270TCL20+
JD87833-2 SB-2	Collected: 03-MAY-24 08:35 By: KM		Received: 03-MAY-24 By: AR			
JD87833-2	SM2540 G 18TH ED MOD	09-MAY-24 17:00	SC			SOL104
JD87833-2	SW846 7471B	09-MAY-24 17:07	CB	08-MAY-24	MK	HG
JD87833-2	SW846 6010D	09-MAY-24 19:40	MM	08-MAY-24	BP	AG, AL, AS, BA, BE, CA, CD, CO, CR, CU, FE, K, MG, MN, NA, NI, PB, SB, SE, TL, V, ZN
JD87833-2	SW846 8270E	09-MAY-24 21:26	RS	09-MAY-24	EB	AB8270TCL20+
JD87833-3 SB-3	Collected: 03-MAY-24 08:40 By: KM		Received: 03-MAY-24 By: AR			
JD87833-3	SM2540 G 18TH ED MOD	09-MAY-24 17:00	SC			SOL104
JD87833-3	SW846 8081B	09-MAY-24 06:46	CP	08-MAY-24	ED	P8081PESTTCL
JD87833-3	SW846 8082A	09-MAY-24 06:51	MLC	08-MAY-24	ED	P8082PCB11AO
JD87833-3	SW846 7471B	09-MAY-24 17:08	CB	08-MAY-24	MK	HG
JD87833-3	SW846 6010D	09-MAY-24 19:45	MM	08-MAY-24	BP	AG, AL, AS, BA, BE, CA, CD, CO, CR, CU, FE, K, MG, MN, NA, NI, PB, SB, SE, TL, V, ZN
JD87833-3	SW846 8270E	09-MAY-24 20:11	RS	09-MAY-24	EB	AB8270TCL20+
JD87833-4 SB-4	Collected: 03-MAY-24 09:00 By: KM		Received: 03-MAY-24 By: AR			
JD87833-4	SM2540 G 18TH ED MOD	09-MAY-24 17:00	SC			SOL104
JD87833-4	SW846 8081B	09-MAY-24 07:08	CP	08-MAY-24	ED	P8081PESTTCL
JD87833-4	SW846 8082A	09-MAY-24 07:15	MLC	08-MAY-24	ED	P8082PCB11AO

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD87833

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD87833-4	SW846 7471B	09-MAY-24 17:10	CB	08-MAY-24	MK	HG
JD87833-4	SW846 6010D	09-MAY-24 19:50	MM	08-MAY-24	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD87833-4	SW846 8270E	09-MAY-24 21:45	RS	09-MAY-24	EB	AB8270TCL20+
JD87833-5	Collected: 03-MAY-24 09:05 By: KM			Received: 03-MAY-24 By: AR		
SB-5						
JD87833-5	SM2540 G 18TH ED MOD	06-MAY-24 17:00	SC			SOL104
JD87833-5	SW846 8082A	09-MAY-24 09:16	MLC	08-MAY-24	ED	P8082PCB11AO
JD87833-5	SW846 7471B	09-MAY-24 17:12	CB	08-MAY-24	MK	HG
JD87833-5	SW846 6010D	09-MAY-24 19:55	MM	08-MAY-24	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD87833-5	SW846 8270E	09-MAY-24 22:03	RS	09-MAY-24	EB	AB8270TCL20+
JD87833-5	SW846 8081B	10-MAY-24 01:27	TP	08-MAY-24	ED	P8081PESTTCL
JD87833-5	SW846 8270E	13-MAY-24 10:04	KH	09-MAY-24	EB	AB8270TCL20+
JD87833-6	Collected: 03-MAY-24 09:10 By: KM			Received: 03-MAY-24 By: AR		
SB-6						
JD87833-6	SM2540 G 18TH ED MOD	06-MAY-24 17:00	SC			SOL104
JD87833-6	SW846 7471B	09-MAY-24 17:17	CB	08-MAY-24	MK	HG
JD87833-6	SW846 6010D	09-MAY-24 20:00	MM	08-MAY-24	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD87833-6	SW846 8270E	09-MAY-24 22:22	RS	09-MAY-24	EB	AB8270TCL20+
JD87833-7	Collected: 03-MAY-24 09:20 By: KM			Received: 03-MAY-24 By: AR		
SB-7						
JD87833-7	SM2540 G 18TH ED MOD	06-MAY-24 17:00	SC			SOL104
JD87833-7	SW846 8081B	09-MAY-24 07:52	CP	08-MAY-24	ED	P8081PESTTCL
JD87833-7	SW846 8082A	09-MAY-24 09:40	MLC	08-MAY-24	ED	P8082PCB11AO
JD87833-7	SW846 7471B	09-MAY-24 17:18	CB	08-MAY-24	MK	HG
JD87833-7	SW846 6010D	09-MAY-24 20:05	MM	08-MAY-24	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD87833-7	SW846 8270E	10-MAY-24 00:35	RS	09-MAY-24	EB	AB8270TCL20+

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD87833

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD87833-8	Collected: 03-MAY-24 09:30 By: KM			Received: 03-MAY-24	By: AR	
SB-8						
JD87833-8	SM2540 G 18TH ED MOD	09-MAY-24 17:00	SC			SOL104
JD87833-8	SW846 8081B	09-MAY-24 08:13	CP	08-MAY-24	ED	P8081PESTTCL
JD87833-8	SW846 8082A	09-MAY-24 10:04	MLC	08-MAY-24	ED	P8082PCB11AO
JD87833-8	SW846 7471B	09-MAY-24 17:20	CB	08-MAY-24	MK	HG
JD87833-8	SW846 6010D	09-MAY-24 20:10	MM	08-MAY-24	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD87833-8	SW846 8270E	09-MAY-24 22:41	RS	09-MAY-24	EB	AB8270TCL20+
JD87833-9	Collected: 03-MAY-24 09:35 By: KM			Received: 03-MAY-24	By: AR	
SB-9						
JD87833-9	SM2540 G 18TH ED MOD	09-MAY-24 17:00	SC			SOL104
JD87833-9	SW846 7471B	09-MAY-24 17:22	CB	08-MAY-24	MK	HG
JD87833-9	SW846 6010D	09-MAY-24 20:15	MM	08-MAY-24	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD87833-9	SW846 8270E	10-MAY-24 00:54	RS	09-MAY-24	EB	AB8270TCL20+
JD87833-10	Collected: 03-MAY-24 09:50 By: KM			Received: 03-MAY-24	By: AR	
SB-10						
JD87833-10	SM2540 G 18TH ED MOD	09-MAY-24 17:00	SC			SOL104
JD87833-10	SW846 8081B	09-MAY-24 08:35	CP	08-MAY-24	ED	P8081PESTTCL
JD87833-10	SW846 8082A	09-MAY-24 10:28	MLC	08-MAY-24	ED	P8082PCB11AO
JD87833-10	SW846 7471B	09-MAY-24 17:23	CB	08-MAY-24	MK	HG
JD87833-10	SW846 6010D	09-MAY-24 20:20	MM	08-MAY-24	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD87833-10	SW846 8270E	09-MAY-24 23:00	RS	09-MAY-24	EB	AB8270TCL20+
JD87833-11	Collected: 03-MAY-24 10:00 By: KM			Received: 03-MAY-24	By: AR	
SB-11						
JD87833-11	SM2540 G 18TH ED MOD	09-MAY-24 17:00	SC			SOL104
JD87833-11	SW846 8082A	09-MAY-24 10:52	MLC	08-MAY-24	ED	P8082PCB11AO

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD87833

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD87833-11	SW846 7471B	09-MAY-24 17:25	CB	08-MAY-24	MK	HG
JD87833-11	SW846 6010D	09-MAY-24 20:25	MM	08-MAY-24	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD87833-11	SW846 8270E	09-MAY-24 20:30	RS	09-MAY-24	EB	AB8270TCL20+
JD87833-11	SW846 8081B	10-MAY-24 15:41	CP	08-MAY-24	ED	P8081PESTTCL
JD87833-12	Collected: 03-MAY-24 10:15 By: KM			Received: 03-MAY-24 By: AR		
SB-12						
JD87833-12	SM2540 G 18TH ED MOD.	06-MAY-24 17:00	SC			SOL104
JD87833-12	SW846 8081B	09-MAY-24 09:19	CP	08-MAY-24	ED	P8081PESTTCL
JD87833-12	SW846 8082A	09-MAY-24 11:15	MLC	08-MAY-24	ED	P8082PCB11AO
JD87833-12	SW846 7471B	09-MAY-24 17:27	CB	08-MAY-24	MK	HG
JD87833-12	SW846 6010D	09-MAY-24 20:39	MM	08-MAY-24	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD87833-12	SW846 8270E	09-MAY-24 23:19	RS	09-MAY-24	EB	AB8270TCL20+
JD87833-13	Collected: 03-MAY-24 10:30 By: KM			Received: 03-MAY-24 By: AR		
SB-13						
JD87833-13	SM2540 G 18TH ED MOD.	06-MAY-24 17:00	SC			SOL104
JD87833-13	SW846 7471B	09-MAY-24 17:47	CB	08-MAY-24	MK	HG
JD87833-13	SW846 6010D	09-MAY-24 20:45	MM	08-MAY-24	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD87833-13	SW846 8270E	09-MAY-24 23:38	RS	09-MAY-24	EB	AB8270TCL20+
JD87833-14	Collected: 03-MAY-24 10:35 By: KM			Received: 03-MAY-24 By: AR		
SB-14						
JD87833-14	SM2540 G 18TH ED MOD.	06-MAY-24 17:00	SC			SOL104
JD87833-14	SW846 8081B	09-MAY-24 09:40	CP	08-MAY-24	ED	P8081PESTTCL
JD87833-14	SW846 8082A	09-MAY-24 11:39	MLC	08-MAY-24	ED	P8082PCB11AO
JD87833-14	SW846 7471B	09-MAY-24 17:52	CB	08-MAY-24	MK	HG
JD87833-14	SW846 6010D	09-MAY-24 19:05	MM	08-MAY-24	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD87833-14	SW846 8270E	10-MAY-24 01:13	RS	09-MAY-24	EB	AB8270TCL20+

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD87833

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD87833-15 Collected: 03-MAY-24 00:00 By: KM DUPE 1				Received: 03-MAY-24	By: AR	
JD87833-15	SM2540 G 18TH ED MOD	06-MAY-24 17:00	SC			SOL104
JD87833-15	SW846 8081B	09-MAY-24 10:02	CP	08-MAY-24	ED	P8081PESTTCL
JD87833-15	SW846 8082A	09-MAY-24 13:39	MLC	08-MAY-24	ED	P8082PCB11AO
JD87833-15	SW846 7471B	09-MAY-24 17:53	CB	08-MAY-24	MK	HG
JD87833-15	SW846 6010D	09-MAY-24 20:50	MM	08-MAY-24	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD87833-15	SW846 8270E	10-MAY-24 01:32	RS	09-MAY-24	EB	AB8270TCL20+
JD87833-15	SW846 8270E	13-MAY-24 10:23	KH	09-MAY-24	EB	AB8270TCL20+
JD87833-16 Collected: 03-MAY-24 00:00 By: KM DUPE 2				Received: 03-MAY-24	By: AR	
JD87833-16	SM2540 G 18TH ED MOD	06-MAY-24 17:00	SC			SOL104
JD87833-16	SW846 8081B	09-MAY-24 10:24	CP	08-MAY-24	ED	P8081PESTTCL
JD87833-16	SW846 8082A	09-MAY-24 14:03	MLC	08-MAY-24	ED	P8082PCB11AO
JD87833-16	SW846 7471B	09-MAY-24 18:02	CB	08-MAY-24	MK	HG
JD87833-16	SW846 6010D	09-MAY-24 20:54	MM	08-MAY-24	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD87833-16	SW846 8270E	09-MAY-24 23:57	RS	09-MAY-24	EB	AB8270TCL20+
JD87833-17 Collected: 03-MAY-24 11:00 By: KM FIELD BLANK				Received: 03-MAY-24	By: AR	
JD87833-17	SW846 8081B	08-MAY-24 04:14	CP	07-MAY-24	NT	P8081PESTTCL
JD87833-17	SW846 6010D	08-MAY-24 04:22	MM	07-MAY-24	SS	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD87833-17	SW846 8082A	08-MAY-24 04:26	CP	07-MAY-24	DS	P8082PCB11AO
JD87833-17	SW846 7470A	08-MAY-24 12:16	MK	07-MAY-24	MK	HG
JD87833-17	SW846 8270E	10-MAY-24 12:26	KM	09-MAY-24	TG	AB8270TCL20+
JD87833-17	SW846 8270E	14-MAY-24 12:23	KH	13-MAY-24	TG	AB8270TCL20+

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD87833

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD87833-17R	Collected: 03-MAY-24 11:00 By: KM			Received: 03-MAY-24 By: AR		
FIELD BLANK						
JD87833-17B	SW846 8081B	15-MAY-24 11:49	MLC	13-MAY-24	TG	P8081PESTTCL

SGS Internal Chain of Custody

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-1.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-1.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-1.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-1.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-1.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-1.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-1.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-1.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-1.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-1.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-1.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-1.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-1.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-1.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-1.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-1.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-1.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-1.1
JD87833-1.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-1.1
JD87833-1.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-1.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-1.1
JD87833-1.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-1.1
JD87833-1.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-1.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-1.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-1.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-1.1
JD87833-1.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-1.1
JD87833-1.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-1.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage
JD87833-1.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument
JD87833-1.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-1.1
JD87833-1.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-1.1
JD87833-1.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-2.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-2.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-2.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-2.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-2.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-2.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-2.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-2.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-2.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-2.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-2.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-2.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-2.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-2.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-2.1
JD87833-2.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-2.1
JD87833-2.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-2.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-2.1
JD87833-2.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-2.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-2.1
JD87833-2.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-2.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-2.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-2.1
JD87833-2.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-2.1
JD87833-2.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-2.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-2.1
JD87833-2.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-2.1
JD87833-2.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-3.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-3.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-3.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-3.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-3.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-3.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-3.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-3.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-3.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-3.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-3.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-3.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-3.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-3.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-3.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-3.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage

SGS Internal Chain of Custody

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-3.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-3.1
JD87833-3.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-3.1
JD87833-3.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-3.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-3.1
JD87833-3.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-3.1
JD87833-3.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-3.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-3.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-3.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-3.1
JD87833-3.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-3.1
JD87833-3.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-3.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage
JD87833-3.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument
JD87833-3.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-3.1
JD87833-3.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-3.1
JD87833-3.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-4.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-4.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-4.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-4.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-4.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-4.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-4.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-4.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-4.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-4.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-4.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-4.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-4.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-4.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-4.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-4.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-4.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-4.1
JD87833-4.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-4.1
JD87833-4.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-4.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-4.1
JD87833-4.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-4.1

SGS Internal Chain of Custody

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-4.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-4.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-4.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-4.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-4.1
JD87833-4.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-4.1
JD87833-4.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-4.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage
JD87833-4.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument
JD87833-4.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-4.1
JD87833-4.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-4.1
JD87833-4.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-5.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-5.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-5.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-5.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-5.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-5.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-5.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-5.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-5.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-5.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-5.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-5.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-5.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-5.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-5.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-5.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-5.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-5.1
JD87833-5.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-5.1
JD87833-5.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-5.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-5.1
JD87833-5.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-5.1
JD87833-5.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-5.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-5.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-5.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-5.1
JD87833-5.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-5.1

SGS Internal Chain of Custody

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-5.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-5.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage
JD87833-5.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument
JD87833-5.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-5.1
JD87833-5.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-5.1
JD87833-5.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-6.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-6.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-6.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-6.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-6.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-6.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-6.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-6.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-6.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-6.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-6.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-6.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-6.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-6.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-6.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-6.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-6.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-6.1
JD87833-6.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-6.1
JD87833-6.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-6.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-6.1
JD87833-6.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-6.1
JD87833-6.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-6.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-6.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-6.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-6.1
JD87833-6.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-6.1
JD87833-6.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-6.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-6.1
JD87833-6.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-6.1
JD87833-6.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage

SGS Internal Chain of Custody

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-7.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-7.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-7.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-7.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-7.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-7.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-7.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-7.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-7.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-7.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-7.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-7.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-7.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-7.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-7.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-7.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-7.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-7.1
JD87833-7.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-7.1
JD87833-7.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-7.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-7.1
JD87833-7.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-7.1
JD87833-7.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-7.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-7.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-7.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-7.1
JD87833-7.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-7.1
JD87833-7.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-7.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage
JD87833-7.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument
JD87833-7.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-7.1
JD87833-7.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-7.1
JD87833-7.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-8.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-8.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-8.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-8.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-8.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-8.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-8.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-8.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-8.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-8.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-8.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-8.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-8.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-8.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-8.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-8.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-8.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-8.1
JD87833-8.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-8.1
JD87833-8.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-8.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-8.1
JD87833-8.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-8.1
JD87833-8.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-8.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-8.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-8.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-8.1
JD87833-8.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-8.1
JD87833-8.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-8.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage
JD87833-8.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument
JD87833-8.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-8.1
JD87833-8.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-8.1
JD87833-8.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-9.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-9.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-9.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-9.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-9.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-9.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-9.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-9.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-9.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-9.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-9.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-9.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-9.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-9.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-9.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-9.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-9.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-9.1
JD87833-9.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-9.1
JD87833-9.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-9.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-9.1
JD87833-9.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-9.1
JD87833-9.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-9.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-9.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-9.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-9.1
JD87833-9.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-9.1
JD87833-9.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-9.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-9.1
JD87833-9.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-9.1
JD87833-9.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-10.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-10.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-10.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-10.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-10.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-10.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-10.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-10.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-10.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-10.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-10.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-10.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-10.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-10.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-10.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-10.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-10.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-10.1
JD87833-10.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-10.1

SGS Internal Chain of Custody

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-10.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-10.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-10.1
JD87833-10.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-10.1
JD87833-10.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-10.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-10.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-10.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-10.1
JD87833-10.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-10.1
JD87833-10.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-10.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage
JD87833-10.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument
JD87833-10.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-10.1
JD87833-10.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-10.1
JD87833-10.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-11.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-11.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-11.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-11.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-11.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-11.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-11.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-11.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-11.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-11.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-11.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-11.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-11.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-11.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-11.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-11.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-11.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-11.1
JD87833-11.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-11.1
JD87833-11.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-11.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-11.1
JD87833-11.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-11.1
JD87833-11.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-11.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-11.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-11.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-11.1
JD87833-11.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-11.1
JD87833-11.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-11.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage
JD87833-11.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument
JD87833-11.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-11.1
JD87833-11.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-11.1
JD87833-11.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-12.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-12.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-12.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-12.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-12.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-12.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-12.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-12.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-12.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-12.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-12.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-12.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-12.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-12.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-12.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-12.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-12.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-12.1
JD87833-12.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-12.1
JD87833-12.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-12.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-12.1
JD87833-12.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-12.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-12.1
JD87833-12.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-12.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-12.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-12.1
JD87833-12.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-12.1
JD87833-12.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-12.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-12.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument
JD87833-12.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-12.1
JD87833-12.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-12.1
JD87833-12.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-13.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-13.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-13.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-13.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-13.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-13.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-13.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-13.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-13.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-13.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-13.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-13.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-13.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-13.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-13.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-13.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-13.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-13.1
JD87833-13.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-13.1
JD87833-13.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-13.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-13.1
JD87833-13.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-13.1
JD87833-13.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-13.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-13.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-13.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-13.1
JD87833-13.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-13.1
JD87833-13.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-13.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-13.1
JD87833-13.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-13.1
JD87833-13.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-14.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-14.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-14.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-14.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-14.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-14.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-14.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-14.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-14.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-14.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-14.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-14.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-14.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-14.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-14.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-14.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-14.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-14.1
JD87833-14.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-14.1
JD87833-14.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-14.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-14.1
JD87833-14.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-14.1
JD87833-14.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-14.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-14.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-14.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-14.1
JD87833-14.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-14.1
JD87833-14.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-14.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage
JD87833-14.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument
JD87833-14.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-14.1
JD87833-14.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-14.1
JD87833-14.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-15.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-15.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-15.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-15.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-15.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-15.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-15.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-15.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-15.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-15.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-15.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-15.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-15.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-15.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-15.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-15.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-15.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-15.1
JD87833-15.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-15.1
JD87833-15.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-15.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-15.1
JD87833-15.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-15.1
JD87833-15.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-15.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-15.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-15.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-15.1
JD87833-15.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-15.1
JD87833-15.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-15.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage
JD87833-15.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument
JD87833-15.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-15.1
JD87833-15.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-15.1
JD87833-15.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-16.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-16.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-16.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-16.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-16.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-16.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-16.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-16.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-16.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-16.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-16.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-16.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-16.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-16.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-16.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-16.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-16.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-16.1
JD87833-16.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-16.1
JD87833-16.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-16.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-16.1
JD87833-16.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-16.1
JD87833-16.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-16.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-16.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-16.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-16.1
JD87833-16.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-16.1
JD87833-16.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-16.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage
JD87833-16.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument
JD87833-16.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-16.1
JD87833-16.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-16.1
JD87833-16.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-17.1	Secured Storage	Joshua Reitan	05/08/24 19:10	Retrieve from Storage
JD87833-17.1	Joshua Reitan	Secured Staging Area	05/08/24 19:10	Return to Storage
JD87833-17.1	Secured Staging Area	Doaa Salem	05/09/24 07:23	Retrieve from Storage
JD87833-17.2	Secured Storage	Taylor Gorman	05/13/24 08:07	Retrieve from Storage
JD87833-17.2	Taylor Gorman		05/15/24 05:56	Depleted
JD87833-17.2.1	Taylor Gorman	Organics Prep	05/13/24 08:31	Extract from JD87833-17.2
JD87833-17.2.1	Angel Guzman	Extract Storage	05/14/24 01:37	Return to Storage
JD87833-17.2.1	Organics Prep	Angel Guzman	05/14/24 01:37	Extract from JD87833-17.2
JD87833-17.3	Secured Storage	Taylor Gorman	05/13/24 08:07	Retrieve from Storage
JD87833-17.3	Taylor Gorman		05/15/24 05:56	Depleted
JD87833-17.3.1	Taylor Gorman	Organics Prep	05/13/24 08:43	Extract from JD87833-17.3
JD87833-17.3.1	Organics Prep	Doaa Salem	05/14/24 10:55	Extract from JD87833-17.3
JD87833-17.3.1	Doaa Salem	Extract Storage	05/14/24 10:55	Return to Storage
JD87833-17.4	Secured Storage	Joe Waddington	05/06/24 23:25	Retrieve from Storage
JD87833-17.4	Joe Waddington	Secured Staging Area	05/06/24 23:26	Return to Storage

SGS Internal Chain of Custody

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-17.4	Secured Staging Area	Doaa Salem	05/07/24 07:23	Retrieve from Storage
JD87833-17.4.1	Doaa Salem	Organics Prep	05/07/24 07:35	Extract from JD87833-17.4
JD87833-17.4.1	Organics Prep	Doaa Salem	05/07/24 17:16	Extract from JD87833-17.4
JD87833-17.4.1	Doaa Salem	Extract Storage	05/07/24 17:16	Return to Storage
JD87833-17.4.1	Extract Storage	Christine Phillips	05/08/24 01:19	Retrieve from Storage
JD87833-17.4.1	Christine Phillips	GC1G	05/08/24 01:19	Load on Instrument
JD87833-17.4.2	Doaa Salem	Organics Prep	05/07/24 07:35	Extract from JD87833-17.4
JD87833-17.4.3	Doaa Salem	Organics Prep	05/08/24 08:43	Extract from JD87833-17.4
JD87833-17.5	Secured Storage	Joe Waddington	05/06/24 22:58	Retrieve from Storage
JD87833-17.5	Joe Waddington	Secured Staging Area	05/06/24 22:58	Return to Storage
JD87833-17.5	Secured Staging Area	Brianna Perez	05/07/24 06:14	Retrieve from Storage
JD87833-17.5	Brianna Perez	Secured Storage	05/07/24 12:26	Return to Storage
JD87833-17.5.1	Brianna Perez	Metals Digestion	05/07/24 11:54	Digestate from JD87833-17.5
JD87833-17.5.1	Metals Digestion	Brianna Perez	05/07/24 11:54	Digestate from JD87833-17.5
JD87833-17.5.1	Brianna Perez	Metals Digestate Storage	05/07/24 11:54	Return to Storage

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54460-MB1	CJ6516.D	1	05/09/24	RS	05/09/24	OP54460	ECJ297

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15, JD87833-16

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	28	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	36	ug/kg	
95-48-7	2-Methylphenol	ND	67	21	ug/kg	
	3&4-Methylphenol	ND	67	27	ug/kg	
88-75-5	2-Nitrophenol	ND	170	22	ug/kg	
100-02-7	4-Nitrophenol	ND	330	89	ug/kg	
87-86-5	Pentachlorophenol	ND	130	31	ug/kg	
108-95-2	Phenol	ND	67	17	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	25	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
98-86-2	Acetophenone	ND	170	7.2	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
1912-24-9	Atrazine	ND	67	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	8.1	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	7.9	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	6.2	67	4.8	ug/kg	J
105-60-2	Caprolactam	ND	67	13	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	14	ug/kg	

Method Blank Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54460-MB1	CJ6516.D	1	05/09/24	RS	05/09/24	OP54460	ECJ297

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15, JD87833-16

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	67	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	10	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	28	ug/kg	
123-91-1	1,4-Dioxane	ND	33	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
132-64-9	Dibenzofuran	ND	67	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	5.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	8.3	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	5.9	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.8	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	13	ug/kg	
67-72-1	Hexachloroethane	ND	170	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
78-59-1	Isophorone	ND	67	7.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	33	7.5	ug/kg	
88-74-4	2-Nitroaniline	ND	170	7.9	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.3	ug/kg	
100-01-6	4-Nitroaniline	ND	170	8.6	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
98-95-3	Nitrobenzene	ND	67	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	9.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	12	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.5	ug/kg	

Method Blank Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54460-MB1	CJ6516.D	1	05/09/24	RS	05/09/24	OP54460	ECJ297

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15, JD87833-16

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	75%	10-99%
4165-62-2	Phenol-d5	78%	10-96%
118-79-6	2,4,6-Tribromophenol	79%	10-123%
4165-60-0	Nitrobenzene-d5	74%	10-109%
321-60-8	2-Fluorobiphenyl	79%	11-109%
1718-51-0	Terphenyl-d14	85%	10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

Method Blank Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54467-MB1	CJ6550.D	1	05/10/24	KM	05/09/24	OP54467	ECJ298

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD87833-17

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	5.0	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	4.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	
105-60-2	Caprolactam	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	

Method Blank Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54467-MB1	CJ6550.D	1	05/10/24	KM	05/09/24	OP54467	ECJ298

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD87833-17

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

Method Blank Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54467-MB1	CJ6550.D	1	05/10/24	KM	05/09/24	OP54467	ECJ298

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD87833-17

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	34%	10-71%
4165-62-2	Phenol-d5	26%	10-58%
118-79-6	2,4,6-Tribromophenol	60%	22-144%
4165-60-0	Nitrobenzene-d5	87%	28-118%
321-60-8	2-Fluorobiphenyl	83%	34-116%
1718-51-0	Terphenyl-d14	55%	10-127%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Internal standard added for SIM te	4.75	4.4	ug/l	J
	unknown	5.95	4.6	ug/l	J
	system artifact	7.04	4.9	ug/l	J
	unknown	8.94	4.6	ug/l	J
	system artifact	10.46	5.2	ug/l	J
	unknown	11.03	5.7	ug/l	J
	Internal standard added for SIM test	11.61	4.6	ug/l	J
	Total TIC, Semi-Volatile		14.9	ug/l	J

Blank Spike Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54460-BS1	CJ6517.D	1	05/09/24	RS	05/09/24	OP54460	ECJ297

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15, JD87833-16

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1270	76	10-135
59-50-7	4-Chloro-3-methyl phenol	1670	1450	87	10-141
120-83-2	2,4-Dichlorophenol	1670	1400	84	10-139
105-67-9	2,4-Dimethylphenol	1670	1390	83	10-141
51-28-5	2,4-Dinitrophenol	3330	2610	78	10-138
534-52-1	4,6-Dinitro-o-cresol	1670	1530	92	10-156
95-48-7	2-Methylphenol	1670	1330	80	10-139
	3&4-Methylphenol	3330	2700	81	10-174
88-75-5	2-Nitrophenol	1670	1350	81	10-142
100-02-7	4-Nitrophenol	1670	1530	92	10-144
87-86-5	Pentachlorophenol	3330	3330	100	10-165
108-95-2	Phenol	1670	1290	77	23-115
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1520	91	10-146
95-95-4	2,4,5-Trichlorophenol	1670	1490	89	13-136
88-06-2	2,4,6-Trichlorophenol	1670	1530	92	10-142
83-32-9	Acenaphthene	1670	1420	85	10-141
208-96-8	Acenaphthylene	1670	1460	88	10-133
98-86-2	Acetophenone	1670	1220	73	23-115
120-12-7	Anthracene	1670	1510	91	10-144
1912-24-9	Atrazine	1670	1500	90	17-149
56-55-3	Benzo(a)anthracene	1670	1420	85	11-139
50-32-8	Benzo(a)pyrene	1670	1500	90	13-141
205-99-2	Benzo(b)fluoranthene	1670	1440	86	14-140
191-24-2	Benzo(g,h,i)perylene	1670	1470	88	13-138
207-08-9	Benzo(k)fluoranthene	1670	1530	92	12-140
101-55-3	4-Bromophenyl phenyl ether	1670	1510	91	10-146
85-68-7	Butyl benzyl phthalate	1670	1570	94	10-150
92-52-4	1,1'-Biphenyl	1670	1390	83	10-141
100-52-7	Benzaldehyde	1670	1100	66	10-146
91-58-7	2-Chloronaphthalene	1670	1380	83	10-142
106-47-8	4-Chloroaniline	1670	936	56	10-108
86-74-8	Carbazole	1670	1520	91	10-145
105-60-2	Caprolactam	1670	1510	91	10-187
218-01-9	Chrysene	1670	1470	88	11-139
111-91-1	bis(2-Chloroethoxy)methane	1670	1290	77	10-144
111-44-4	bis(2-Chloroethyl)ether	1670	1200	72	10-145

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54460-BS1	CJ6517.D	1	05/09/24	RS	05/09/24	OP54460	ECJ297

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15, JD87833-16

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	2,2'-Oxybis(1-chloropropane)	1670	1220	73	10-145
7005-72-3	4-Chlorophenyl phenyl ether	1670	1480	89	10-145
121-14-2	2,4-Dinitrotoluene	1670	1540	92	10-148
606-20-2	2,6-Dinitrotoluene	1670	1540	92	12-145
91-94-1	3,3'-Dichlorobenzidine	1670	1070	64	10-100
123-91-1	1,4-Dioxane	1670	671	40	10-97
53-70-3	Dibenzo(a,h)anthracene	1670	1500	90	14-142
132-64-9	Dibenzofuran	1670	1420	85	10-140
84-74-2	Di-n-butyl phthalate	1670	1560	94	11-147
117-84-0	Di-n-octyl phthalate	1670	1530	92	15-145
84-66-2	Diethyl phthalate	1670	1460	88	10-145
131-11-3	Dimethyl phthalate	1670	1460	88	10-144
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1500	90	26-132
206-44-0	Fluoranthene	1670	1530	92	10-147
86-73-7	Fluorene	1670	1430	86	12-139
118-74-1	Hexachlorobenzene	1670	1500	90	10-144
87-68-3	Hexachlorobutadiene	1670	1220	73	10-142
77-47-4	Hexachlorocyclopentadiene	3330	2720	82	10-120
67-72-1	Hexachloroethane	1670	1160	70	10-141
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1510	91	13-144
78-59-1	Isophorone	1670	1330	80	10-139
91-57-6	2-Methylnaphthalene	1670	1320	79	10-140
88-74-4	2-Nitroaniline	1670	1390	83	10-148
99-09-2	3-Nitroaniline	1670	1110	67	10-127
100-01-6	4-Nitroaniline	1670	1450	87	10-143
91-20-3	Naphthalene	1670	1250	75	10-141
98-95-3	Nitrobenzene	1670	1230	74	10-139
621-64-7	N-Nitroso-di-n-propylamine	1670	1160	70	10-143
86-30-6	N-Nitrosodiphenylamine	1670	1430	86	10-145
85-01-8	Phenanthrene	1670	1480	89	10-142
129-00-0	Pyrene	1670	1490	89	13-141
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1350	81	10-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54460-BS1	CJ6517.D	1	05/09/24	RS	05/09/24	OP54460	ECJ297

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15, JD87833-16

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	75%	10-99%
4165-62-2	Phenol-d5	80%	10-96%
118-79-6	2,4,6-Tribromophenol	95%	10-123%
4165-60-0	Nitrobenzene-d5	76%	10-109%
321-60-8	2-Fluorobiphenyl	84%	11-109%
1718-51-0	Terphenyl-d14	87%	10-120%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54467-BS1	CJ6551.D	1	05/10/24	KM	05/09/24	OP54467	ECJ298
OP54467-BSD	CJ6552.D	1	05/10/24	KM	05/09/24	OP54467	ECJ298

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD87833-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	50	22.6	45	29.2	58	25	17-111/59
59-50-7	4-Chloro-3-methyl phenol	50	29.2	58	36.2	72	21	30-118/47
120-83-2	2,4-Dichlorophenol	50	25.8	52	31.7	63	21	30-119/50
105-67-9	2,4-Dimethylphenol	50	25.6	51	33.7	67	27	20-114/49
51-28-5	2,4-Dinitrophenol	100	ND	0* [a]	ND	0* [a]	nc	11-141/72
534-52-1	4,6-Dinitro-o-cresol	50	3.1	6* [a]	2.1	4* [a]	38	30-142/51
95-48-7	2-Methylphenol	50	20.7	41	28.4	57	31	10-110/56
	3&4-Methylphenol	100	40.2	40	53.7	54	29	10-164/59
88-75-5	2-Nitrophenol	50	23.6	47	29.8	60	23	33-123/49
100-02-7	4-Nitrophenol	50	3.2	6* [a]	2.3	5* [a]	33	10-84/61
87-86-5	Pentachlorophenol	100	26.6	27	20.7	21	25	10-171/41
108-95-2	Phenol	50	11.4	23	15.3	31	29	10-85/57
58-90-2	2,3,4,6-Tetrachlorophenol	50	15.5	31* [a]	13.0	26* [a]	18	36-130/44
95-95-4	2,4,5-Trichlorophenol	50	26.4	53	29.1	58	10	38-124/44
88-06-2	2,4,6-Trichlorophenol	50	18.7	37	17.2	34* [a]	8	37-122/46
83-32-9	Acenaphthene	50	32.7	65	38.6	77	17	52-115/30
208-96-8	Acenaphthylene	50	34.0	68	39.9	80	16	30-114/31
98-86-2	Acetophenone	50	31.5	63	39.6	79	23	40-115/39
120-12-7	Anthracene	50	38.5	77	43.8	88	13	55-122/29
1912-24-9	Atrazine	50	34.3	69	35.3	71	3	54-140/33
100-52-7	Benzaldehyde	50	26.8	54	32.4	65	19	35-121/35
56-55-3	Benzo(a)anthracene	50	35.4	71	41.1	82	15	55-122/29
50-32-8	Benzo(a)pyrene	50	35.2	70	41.4	83	16	50-123/30
205-99-2	Benzo(b)fluoranthene	50	35.7	71	43.3	87	19	57-124/28
191-24-2	Benzo(g,h,i)perylene	50	34.1	68	39.7	79	15	55-125/30
207-08-9	Benzo(k)fluoranthene	50	35.8	72	43.0	86	18	53-124/28
101-55-3	4-Bromophenyl phenyl ether	50	38.3	77	42.6	85	11	55-124/29
85-68-7	Butyl benzyl phthalate	50	41.0	82	48.4	97	17	54-134/29
92-52-4	1,1'-Biphenyl	50	29.6	59	35.7	71	19	46-115/32
91-58-7	2-Chloronaphthalene	50	28.9	58	34.7	69	18	44-113/32
106-47-8	4-Chloroaniline	50	12.7	25	13.9	28	9	10-100/92
86-74-8	Carbazole	50	38.2	76	42.1	84	10	56-123/29
105-60-2	Caprolactam	50	10.3	21	12.9	26	22	10-85/35
218-01-9	Chrysene	50	35.3	71	41.5	83	16	54-122/29
111-91-1	bis(2-Chloroethoxy)methane	50	31.5	63	39.8	80	23	39-116/36
111-44-4	bis(2-Chloroethyl)ether	50	29.8	60	38.9	78	26	31-118/45

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54467-BS1	CJ6551.D	1	05/10/24	KM	05/09/24	OP54467	ECJ298
OP54467-BSD	CJ6552.D	1	05/10/24	KM	05/09/24	OP54467	ECJ298

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD87833-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
108-60-1	2,2'-Oxybis(1-chloropropane)	50	30.2	60	39.2	78	26	34-117/43
7005-72-3	4-Chlorophenyl phenyl ether	50	35.4	71	41.2	82	15	53-119/28
121-14-2	2,4-Dinitrotoluene	50	41.6	83	47.8	96	14	58-129/29
606-20-2	2,6-Dinitrotoluene	50	41.0	82	47.8	96	15	56-128/30
91-94-1	3,3'-Dichlorobenzidine	50	20.4	41	1.8	4* [a]	168* [b]	23-122/44
123-91-1	1,4-Dioxane	50	13.6	27	18.4	37	30	10-88/49
53-70-3	Dibenzo(a,h)anthracene	50	34.8	70	41.8	84	18	55-127/29
132-64-9	Dibenzofuran	50	34.3	69	39.9	80	15	53-116/29
84-74-2	Di-n-butyl phthalate	50	40.3	81	46.6	93	14	57-129/30
117-84-0	Di-n-octyl phthalate	50	39.7	79	49.4	99	22	45-139/28
84-66-2	Diethyl phthalate	50	38.0	76	45.4	91	18	53-123/30
131-11-3	Dimethyl phthalate	50	35.0	70	42.1	84	18	50-122/35
117-81-7	bis(2-Ethylhexyl)phthalate	50	37.7	75	45.1	90	18	49-137/30
206-44-0	Fluoranthene	50	38.4	77	43.9	88	13	58-125/30
86-73-7	Fluorene	50	36.4	73	41.8	84	14	56-119/28
118-74-1	Hexachlorobenzene	50	36.2	72	42.8	86	17	53-125/29
87-68-3	Hexachlorobutadiene	50	22.4	45	29.6	59	28	21-109/47
77-47-4	Hexachlorocyclopentadiene	100	41.9	42	55.5	56	28	10-96/52
67-72-1	Hexachloroethane	50	22.5	45	30.2	60	29	19-105/40
193-39-5	Indeno(1,2,3-cd)pyrene	50	34.6	69	40.7	81	16	50-132/30
78-59-1	Isophorone	50	32.5	65	41.0	82	23	41-117/33
91-57-6	2-Methylnaphthalene	50	27.5	55	34.5	69	23	41-112/35
88-74-4	2-Nitroaniline	50	38.8	78	44.8	90	14	48-128/31
99-09-2	3-Nitroaniline	50	26.0	52	26.4	53	2	30-115/51
100-01-6	4-Nitroaniline	50	36.7	73	37.1	74	1	43-121/34
91-20-3	Naphthalene	50	27.3	55	34.5	69	23	37-112/39
98-95-3	Nitrobenzene	50	30.9	62	39.1	78	23	35-119/39
621-64-7	N-Nitroso-di-n-propylamine	50	32.0	64	40.6	81	24	34-121/36
86-30-6	N-Nitrosodiphenylamine	50	38.3	77	42.4	85	10	52-121/29
85-01-8	Phenanthrene	50	37.7	75	42.5	85	12	56-121/28
129-00-0	Pyrene	50	37.7	75	44.2	88	16	55-125/29
95-94-3	1,2,4,5-Tetrachlorobenzene	50	25.6	51	32.1	64	23	40-110/35

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54467-BS1	CJ6551.D	1	05/10/24	KM	05/09/24	OP54467	ECJ298
OP54467-BSD	CJ6552.D	1	05/10/24	KM	05/09/24	OP54467	ECJ298

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD87833-17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	28%	34%	10-71%
4165-62-2	Phenol-d5	22%	29%	10-58%
118-79-6	2,4,6-Tribromophenol	56%	60%	22-144%
4165-60-0	Nitrobenzene-d5	64%	82%	28-118%
321-60-8	2-Fluorobiphenyl	66%	81%	34-116%
1718-51-0	Terphenyl-d14	40%	56%	10-127%

(a) Outside of in house control limits.
(b) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54460-MS	CJ6527.D	1	05/09/24	RS	05/09/24	OP54460	ECJ297
OP54460-MSD	CJ6528.D	1	05/09/24	RS	05/09/24	OP54460	ECJ297
JD87833-1	CJ6538.D	1	05/10/24	RS	05/09/24	OP54460	ECJ297

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15, JD87833-16

CAS No.	Compound	JD87833-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		2330	1480	64	2270	1350	59	9	10-137/86
59-50-7	4-Chloro-3-methyl phenol	ND		2330	1660	71	2270	1440	63	14	10-146/84
120-83-2	2,4-Dichlorophenol	ND		2330	1670	72	2270	1440	63	15	10-145/86
105-67-9	2,4-Dimethylphenol	ND		2330	1630	70	2270	1420	62	14	10-148/87
51-28-5	2,4-Dinitrophenol	ND		4650	2070	44	4550	1880	41	10	10-118/90
534-52-1	4,6-Dinitro-o-cresol	ND		2330	1340	58	2270	1210	53	10	10-131/97
95-48-7	2-Methylphenol	ND		2330	1540	66	2270	1400	62	10	10-143/86
	3&4-Methylphenol	ND		4650	3110	67	4550	2840	62	9	10-162/87
88-75-5	2-Nitrophenol	ND		2330	1640	70	2270	1470	65	11	10-147/93
100-02-7	4-Nitrophenol	ND		2330	1730	74	2270	1550	68	11	10-152/85
87-86-5	Pentachlorophenol	ND		4650	3750	81	4550	3390	75	10	10-146/89
108-95-2	Phenol	118		2330	1500	59	2270	1410	57	6	10-118/84
58-90-2	2,3,4,6-Tetrachlorophenol	ND		2330	1750	75	2270	1550	68	12	10-139/87
95-95-4	2,4,5-Trichlorophenol	ND		2330	1700	73	2270	1520	67	11	10-140/86
88-06-2	2,4,6-Trichlorophenol	ND		2330	1800	77	2270	1580	69	13	10-141/86
83-32-9	Acenaphthene	18.0	J	2330	1650	70	2270	1470	64	12	10-156/87
208-96-8	Acenaphthylene	60.4		2330	1760	73	2270	1510	64	15	10-143/84
98-86-2	Acetophenone	ND		2330	1410	61	2270	1310	58	7	10-130/90
120-12-7	Anthracene	71.5		2330	1850	76	2270	1590	67	15	10-166/88
1912-24-9	Atrazine	ND		2330	1630	70	2270	1510	66	8	10-148/86
56-55-3	Benzo(a)anthracene	233		2330	2220	85	2270	1710	65	26	10-163/88
50-32-8	Benzo(a)pyrene	243		2330	2280	88	2270	1760	67	26	10-163/89
205-99-2	Benzo(b)fluoranthene	342		2330	2230	81	2270	1810	65	21	10-156/91
191-24-2	Benzo(g,h,i)perylene	182		2330	2020	79	2270	1620	63	22	10-158/89
207-08-9	Benzo(k)fluoranthene	114		2330	1950	79	2270	1520	62	25	10-157/86
101-55-3	4-Bromophenyl phenyl ether	ND		2330	1690	73	2270	1540	68	9	10-143/87
85-68-7	Butyl benzyl phthalate	ND		2330	1930	83	2270	1700	75	13	10-161/89
92-52-4	1,1'-Biphenyl	6.2	J	2330	1600	69	2270	1400	61	13	10-143/86
100-52-7	Benzaldehyde	17.2	J	2330	1220	52	2270	1180	51	3	10-148/88
91-58-7	2-Chloronaphthalene	ND		2330	1580	68	2270	1400	62	12	10-145/86
106-47-8	4-Chloroaniline	ND		2330	1020	44	2270	885	39	14	10-109/87
86-74-8	Carbazole	30.5	J	2330	1660	70	2270	1490	64	11	10-158/87
105-60-2	Caprolactam	ND		2330	1510	65	2270	1310	58	14	10-150/82
218-01-9	Chrysene	273		2330	2260	85	2270	1760	65	25	10-164/87
111-91-1	bis(2-Chloroethoxy)methane	ND		2330	1520	65	2270	1340	59	13	10-152/86
111-44-4	bis(2-Chloroethyl)ether	ND		2330	1330	57	2270	1270	56	5	10-147/86

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54460-MS	CJ6527.D	1	05/09/24	RS	05/09/24	OP54460	ECJ297
OP54460-MSD	CJ6528.D	1	05/09/24	RS	05/09/24	OP54460	ECJ297
JD87833-1	CJ6538.D	1	05/10/24	RS	05/09/24	OP54460	ECJ297

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15, JD87833-16

CAS No.	Compound	JD87833-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	2,2'-Oxybis(1-chloropropane)	ND		2330	1390	60	2270	1310	58	6	10-134/88
7005-72-3	4-Chlorophenyl phenyl ether	ND		2330	1650	71	2270	1450	64	13	10-142/87
121-14-2	2,4-Dinitrotoluene	ND		2330	1720	74	2270	1540	68	11	10-147/86
606-20-2	2,6-Dinitrotoluene	ND		2330	1740	75	2270	1540	68	12	10-147/88
91-94-1	3,3'-Dichlorobenzidine	ND		2330	391	17	2270	274	12	35	10-106/93
123-91-1	1,4-Dioxane	ND		2330	655	28	2270	641	28	2	10-102/85
53-70-3	Dibenzo(a,h)anthracene	48.2		2330	1730	72	2270	1490	63	15	10-149/89
132-64-9	Dibenzofuran	ND		2330	1630	70	2270	1460	64	11	10-155/86
84-74-2	Di-n-butyl phthalate	14.3	J	2330	1760	75	2270	1580	69	11	10-158/86
117-84-0	Di-n-octyl phthalate	ND		2330	1830	79	2270	1630	72	12	10-154/84
84-66-2	Diethyl phthalate	ND		2330	1680	72	2270	1490	66	12	10-148/84
131-11-3	Dimethyl phthalate	ND		2330	1680	72	2270	1470	65	13	10-144/85
117-81-7	bis(2-Ethylhexyl)phthalate	80.4	J	2330	1860	76	2270	1660	69	11	10-153/84
206-44-0	Fluoranthene	487		2330	2840	101	2270	2120	72	29	10-165/93
86-73-7	Fluorene	24.3	J	2330	1690	72	2270	1470	64	14	10-158/87
118-74-1	Hexachlorobenzene	ND		2330	1640	70	2270	1460	64	12	10-139/85
87-68-3	Hexachlorobutadiene	ND		2330	1420	61	2270	1280	56	10	10-139/88
77-47-4	Hexachlorocyclopentadiene	ND		4650	2180	47	4550	1670	37	26	10-116/30
67-72-1	Hexachloroethane	ND		2330	1250	54	2270	1180	52	6	10-141/93
193-39-5	Indeno(1,2,3-cd)pyrene	147		2330	2000	80	2270	1600	64	22	10-160/91
78-59-1	Isophorone	ND		2330	1550	67	2270	1370	60	12	10-150/86
91-57-6	2-Methylnaphthalene	ND		2330	1540	66	2270	1370	60	12	10-145/86
88-74-4	2-Nitroaniline	ND		2330	1660	71	2270	1400	62	17	10-152/77
99-09-2	3-Nitroaniline	ND		2330	1280	55	2270	1090	48	16	10-136/83
100-01-6	4-Nitroaniline	ND		2330	1260	54	2270	1110	49	13	10-140/81
91-20-3	Naphthalene	ND		2330	1470	63	2270	1320	58	11	10-146/87
98-95-3	Nitrobenzene	ND		2330	1450	62	2270	1320	58	9	10-146/88
621-64-7	N-Nitroso-di-n-propylamine	ND		2330	1400	60	2270	1260	55	11	10-147/77
86-30-6	N-Nitrosodiphenylamine	ND		2330	1650	71	2270	1450	64	13	10-159/78
85-01-8	Phenanthrene	243		2330	2110	80	2270	1740	66	19	10-158/95
129-00-0	Pyrene	495		2330	3050	110	2270	2210	75	32	10-176/90
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		2330	1550	67	2270	1380	61	12	10-137/87

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54460-MS	CJ6527.D	1	05/09/24	RS	05/09/24	OP54460	ECJ297
OP54460-MSD	CJ6528.D	1	05/09/24	RS	05/09/24	OP54460	ECJ297
JD87833-1	CJ6538.D	1	05/10/24	RS	05/09/24	OP54460	ECJ297

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15, JD87833-16

CAS No.	Surrogate Recoveries	MS	MSD	JD87833-1	Limits
367-12-4	2-Fluorophenol	62%	57%	68%	10-99%
4165-62-2	Phenol-d5	66%	60%	72%	10-96%
118-79-6	2,4,6-Tribromophenol	78%	72%	90%	10-123%
4165-60-0	Nitrobenzene-d5	64%	59%	72%	10-109%
321-60-8	2-Fluorobiphenyl	70%	62%	77%	11-109%
1718-51-0	Terphenyl-d14	74%	65%	81%	10-120%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: ECJ296-DFTPP
Lab File ID: CJ6488.D
Instrument ID: GCMSCJ
Injection Date: 05/08/24
Injection Time: 14:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	127437	43.4		Pass
68	Less than 2.0% of mass 69	263	0.09	(0.18) [a]	Pass
69	Mass 69 relative abundance	145224	49.5		Pass
70	Less than 2.0% of mass 69	743	0.25	(0.51) [a]	Pass
127	40.0 - 60.0% of mass 198	154005	52.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	293525	100.0		Pass
199	5.0 - 9.0% of mass 198	19452	6.63		Pass
275	10.0 - 31.0% of mass 198	66797	22.8		Pass
365	1.0 - 100.0% of mass 198	8388	2.86		Pass
441	Present, but less than mass 443	28606	9.75	(77.4) [b]	Pass
442	40.0 - 100.0% of mass 198	195269	66.5		Pass
443	17.0 - 23.0% of mass 442	36968	12.6	(18.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ECJ296-ICC296	CJ6490.D	05/08/24	16:42	01:46	Initial cal 50
ECJ296-IC296	CJ6491.D	05/08/24	17:20	02:24	Initial cal 1
ECJ296-IC296	CJ6492.D	05/08/24	17:39	02:43	Initial cal 2
ECJ296-IC296	CJ6493.D	05/08/24	17:58	03:02	Initial cal 5
ECJ296-IC296	CJ6494.D	05/08/24	18:17	03:21	Initial cal 10
ECJ296-IC296	CJ6495.D	05/08/24	18:36	03:40	Initial cal 25
ECJ296-IC296	CJ6496.D	05/08/24	18:54	03:58	Initial cal 80
ECJ296-IC296	CJ6497.D	05/08/24	19:13	04:17	Initial cal 100
ECJ296-IC296	CJ6498.D	05/08/24	19:32	04:36	Initial cal 50
ECJ296-IC296	CJ6499.D	05/08/24	19:51	04:55	Initial cal 1
ECJ296-IC296	CJ6500.D	05/08/24	20:10	05:14	Initial cal 2
ECJ296-IC296	CJ6501.D	05/08/24	20:29	05:33	Initial cal 5
ECJ296-IC296	CJ6502.D	05/08/24	20:47	05:51	Initial cal 10
ECJ296-IC296	CJ6503.D	05/08/24	21:06	06:10	Initial cal 25
ECJ296-IC296	CJ6504.D	05/08/24	21:25	06:29	Initial cal 80
ECJ296-IC296	CJ6505.D	05/08/24	21:43	06:47	Initial cal 100
ECJ296-ICV296	CJ6506.D	05/08/24	22:02	07:06	Initial cal verification 50
ECJ296-ICV296	CJ6507.D	05/08/24	22:20	07:24	Initial cal verification 50
ECJ296-ICV296	CJ6508.D	05/08/24	22:39	07:43	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	ECJ296-DFTPP	**Injection Date:**	05/08/24
Lab File ID:	CJ6488.D	**Injection Time:**	14:56
Instrument ID:	GCMSCJ		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ECJ296-ICV296	CJ6509.D	05/08/24	22:58	08:02	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: ECJ297-DFTPP
Lab File ID: CJ6510.D
Instrument ID: GCMSCJ
Injection Date: 05/09/24
Injection Time: 15:28

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	80064	41.0		Pass
68	Less than 2.0% of mass 69	778	0.40	(0.83) [a]	Pass
69	Mass 69 relative abundance	93747	48.0		Pass
70	Less than 2.0% of mass 69	190	0.10	(0.20) [a]	Pass
127	40.0 - 60.0% of mass 198	102120	52.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	195475	100.0		Pass
199	5.0 - 9.0% of mass 198	12772	6.53		Pass
275	10.0 - 31.0% of mass 198	44600	22.8		Pass
365	1.0 - 100.0% of mass 198	5593	2.86		Pass
441	Present, but less than mass 443	20928	10.7	(78.3) [b]	Pass
442	40.0 - 100.0% of mass 198	134872	69.0		Pass
443	17.0 - 23.0% of mass 442	26713	13.7	(19.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ECJ297-CC296	CJ6511.D	05/09/24	15:40	00:12	Continuing cal 50
ECJ297-CC296	CJ6512.D	05/09/24	15:59	00:31	Continuing cal 50
OP54484B-MB1	CJ6513.D	05/09/24	16:26	00:58	Method Blank
OP54484B-BS1	CJ6514.D	05/09/24	16:44	01:16	Blank Spike
OP54484B-BSD	CJ6515.D	05/09/24	17:03	01:35	Blank Spike Duplicate
OP54460-MB1	CJ6516.D	05/09/24	17:22	01:54	Method Blank
OP54460-BS1	CJ6517.D	05/09/24	17:41	02:13	Blank Spike
ZZZZZZ	CJ6518.D	05/09/24	18:00	02:32	(unrelated sample)
ZZZZZZ	CJ6519.D	05/09/24	18:18	02:50	(unrelated sample)
ZZZZZZ	CJ6520.D	05/09/24	18:37	03:09	(unrelated sample)
ZZZZZZ	CJ6521.D	05/09/24	18:56	03:28	(unrelated sample)
ZZZZZZ	CJ6522.D	05/09/24	19:15	03:47	(unrelated sample)
ZZZZZZ	CJ6523.D	05/09/24	19:34	04:06	(unrelated sample)
ZZZZZZ	CJ6524.D	05/09/24	19:52	04:24	(unrelated sample)
JD87833-3	CJ6525.D	05/09/24	20:11	04:43	SB-3
JD87833-11	CJ6526.D	05/09/24	20:30	05:02	SB-11
OP54460-MS	CJ6527.D	05/09/24	20:49	05:21	Matrix Spike
OP54460-MSD	CJ6528.D	05/09/24	21:07	05:39	Matrix Spike Duplicate
JD87833-2	CJ6529.D	05/09/24	21:26	05:58	SB-2

Instrument Performance Check (DFTPP)

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	ECJ297-DFTPP	**Injection Date:**	05/09/24
Lab File ID:	CJ6510.D	**Injection Time:**	15:28
Instrument ID:	GCMSCJ		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JD87833-4	CJ6530.D	05/09/24	21:45	06:17	SB-4
JD87833-5	CJ6531.D	05/09/24	22:03	06:35	SB-5
JD87833-6	CJ6532.D	05/09/24	22:22	06:54	SB-6
JD87833-8	CJ6533.D	05/09/24	22:41	07:13	SB-8
JD87833-10	CJ6534.D	05/09/24	23:00	07:32	SB-10
JD87833-12	CJ6535.D	05/09/24	23:19	07:51	SB-12
JD87833-13	CJ6536.D	05/09/24	23:38	08:10	SB-13
JD87833-16	CJ6537.D	05/09/24	23:57	08:29	DUPE 2
JD87833-1	CJ6538.D	05/10/24	00:16	08:48	SB-1
JD87833-7	CJ6539.D	05/10/24	00:35	09:07	SB-7
JD87833-9	CJ6540.D	05/10/24	00:54	09:26	SB-9
JD87833-14	CJ6541.D	05/10/24	01:13	09:45	SB-14
JD87833-15	CJ6542.D	05/10/24	01:32	10:04	DUPE 1

Instrument Performance Check (DFTPP)

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: ECJ298-DFTPP
Lab File ID: CJ6545.D
Instrument ID: GCMSCJ
Injection Date: 05/10/24
Injection Time: 09:19

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	140691	42.2		Pass
68	Less than 2.0% of mass 69	1422	0.43	(0.89) [a]	Pass
69	Mass 69 relative abundance	158990	47.7		Pass
70	Less than 2.0% of mass 69	770	0.23	(0.48) [a]	Pass
127	40.0 - 60.0% of mass 198	173715	52.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	333013	100.0		Pass
199	5.0 - 9.0% of mass 198	22951	6.89		Pass
275	10.0 - 30.0% of mass 198	78293	23.5		Pass
365	1.0 - 100.0% of mass 198	9817	2.95		Pass
441	Present, but less than mass 443	35977	10.8	(78.6) [b]	Pass
442	40.0 - 100.0% of mass 198	227379	68.3		Pass
443	17.0 - 23.0% of mass 442	45787	13.7	(20.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ECJ298-CC296	CJ6546.D	05/10/24	09:29	00:10	Continuing cal 50
ECJ298-CC296	CJ6547.D	05/10/24	09:48	00:29	Continuing cal 50
ECJ298-CC296	CJ6549.D	05/10/24	10:27	01:08	Continuing cal 5
OP54467-MB1	CJ6550.D	05/10/24	10:50	01:31	Method Blank
OP54467B-MB1	CJ6550.D	05/10/24	10:50	01:31	Method Blank
OP54467-BS1	CJ6551.D	05/10/24	11:09	01:50	Blank Spike
OP54467B-BS1	CJ6551.D	05/10/24	11:09	01:50	Blank Spike
OP54467-BSD	CJ6552.D	05/10/24	11:28	02:09	Blank Spike Duplicate
OP54467B-BSD	CJ6552.D	05/10/24	11:28	02:09	Blank Spike Duplicate
ZZZZZZ	CJ6553.D	05/10/24	11:48	02:29	(unrelated sample)
ZZZZZZ	CJ6554.D	05/10/24	12:07	02:48	(unrelated sample)
JD87833-17	CJ6555.D	05/10/24	12:26	03:07	FIELD BLANK
ZZZZZZ	CJ6556.D	05/10/24	12:45	03:26	(unrelated sample)
ZZZZZZ	CJ6557.D	05/10/24	13:04	03:45	(unrelated sample)
ZZZZZZ	CJ6558.D	05/10/24	13:23	04:04	(unrelated sample)
ZZZZZZ	CJ6559.D	05/10/24	13:42	04:23	(unrelated sample)
ZZZZZZ	CJ6560.D	05/10/24	14:00	04:41	(unrelated sample)
ZZZZZZ	CJ6561.D	05/10/24	14:19	05:00	(unrelated sample)
ZZZZZZ	CJ6562.D	05/10/24	14:38	05:19	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	ECJ298-DFTPP	**Injection Date:**	05/10/24
Lab File ID:	CJ6545.D	**Injection Time:**	09:19
Instrument ID:	GCMSCJ		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	CJ6563.D	05/10/24	14:57	05:38	(unrelated sample)
ZZZZZZ	CJ6564.D	05/10/24	15:16	05:57	(unrelated sample)
ZZZZZZ	CJ6565.D	05/10/24	15:35	06:16	(unrelated sample)
ZZZZZZ	CJ6566.D	05/10/24	15:54	06:35	(unrelated sample)
ZZZZZZ	CJ6575.D	05/10/24	16:12	06:53	(unrelated sample)
ZZZZZZ	CJ6576.D	05/10/24	16:31	07:12	(unrelated sample)
ZZZZZZ	CJ6577.D	05/10/24	16:50	07:31	(unrelated sample)
ZZZZZZ	CJ6567.D	05/10/24	17:50	08:31	(unrelated sample)
ZZZZZZ	CJ6568.D	05/10/24	18:27	09:08	(unrelated sample)
ZZZZZZ	CJ6569.D	05/10/24	18:46	09:27	(unrelated sample)
ZZZZZZ	CJ6570.D	05/10/24	19:05	09:46	(unrelated sample)
ZZZZZZ	CJ6571.D	05/10/24	19:24	10:05	(unrelated sample)
ZZZZZZ	CJ6572.D	05/10/24	19:43	10:24	(unrelated sample)
ZZZZZZ	CJ6573.D	05/10/24	20:02	10:43	(unrelated sample)
ZZZZZZ	CJ6574.D	05/10/24	20:21	11:02	(unrelated sample)
ECJ299-CC296	CJ6583.D	05/10/24	23:40	14:21	Continuing cal 50
ECJ299-CC296	CJ6584.D	05/10/24	23:59	14:40	Continuing cal 50
OP54493-MB1	CJ6585.D	05/11/24	00:46	15:27	Method Blank
OP54493-BS1	CJ6586.D	05/11/24	01:06	15:47	Blank Spike
ZZZZZZ	CJ6587.D	05/11/24	01:24	16:05	(unrelated sample)
ZZZZZZ	CJ6588.D	05/11/24	01:43	16:24	(unrelated sample)
OP54493-MS	CJ6589.D	05/11/24	02:02	16:43	Matrix Spike
OP54493-MSD	CJ6590.D	05/11/24	02:21	17:02	Matrix Spike Duplicate
OP54493-MS2	CJ6591.D	05/11/24	02:40	17:21	Matrix Spike
OP54493-MSD2	CJ6592.D	05/11/24	02:59	17:40	Matrix Spike Duplicate
ZZZZZZ	CJ6593.D	05/11/24	03:18	17:59	(unrelated sample)
ZZZZZZ	CJ6594.D	05/11/24	03:37	18:18	(unrelated sample)
ZZZZZZ	CJ6595.D	05/11/24	03:56	18:37	(unrelated sample)
ZZZZZZ	CJ6596.D	05/11/24	04:15	18:56	(unrelated sample)
ZZZZZZ	CJ6597.D	05/11/24	04:33	19:14	(unrelated sample)
ZZZZZZ	CJ6598.D	05/11/24	04:52	19:33	(unrelated sample)
ZZZZZZ	CJ6599.D	05/11/24	05:11	19:52	(unrelated sample)
ZZZZZZ	CJ6600.D	05/11/24	05:30	20:11	(unrelated sample)
ZZZZZZ	CJ6601.D	05/11/24	05:49	20:30	(unrelated sample)
ZZZZZZ	CJ6602.D	05/11/24	06:08	20:49	(unrelated sample)
ZZZZZZ	CJ6603.D	05/11/24	06:27	21:08	(unrelated sample)
ZZZZZZ	CJ6604.D	05/11/24	06:46	21:27	(unrelated sample)
ZZZZZZ	CJ6605.D	05/11/24	07:05	21:46	(unrelated sample)
ZZZZZZ	CJ6606.D	05/11/24	07:24	22:05	(unrelated sample)
JD87898-4	CJ6607.D	05/11/24	07:43	22:24	(used for QC only; not part of job JD87833)
ZZZZZZ	CJ6608.D	05/11/24	08:02	22:43	(unrelated sample)
ZZZZZZ	CJ6609.D	05/11/24	08:21	23:02	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	ECJ298-DFTPP	**Injection Date:**	05/10/24
Lab File ID:	CJ6545.D	**Injection Time:**	09:19
Instrument ID:	GCMSCJ		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JD87898-7	CJ6610.D	05/11/24	08:40	23:21	(used for QC only; not part of job JD87833)
ZZZZZZ	CJ6611.D	05/11/24	08:59	23:40	(unrelated sample)
ZZZZZZ	CJ6612.D	05/11/24	09:19	24:00	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EM8478-DFTPP
Lab File ID: M195470.D
Instrument ID: GCMSM
Injection Date: 05/09/24
Injection Time: 16:29

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	93242	53.4		Pass
68	Less than 2.0% of mass 69	616	0.35	(0.66) [a]	Pass
69	Mass 69 relative abundance	93962	53.8		Pass
70	Less than 2.0% of mass 69	651	0.37	(0.69) [a]	Pass
127	40.0 - 60.0% of mass 198	95493	54.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	174672	100.0		Pass
199	5.0 - 9.0% of mass 198	11956	6.84		Pass
275	10.0 - 30.0% of mass 198	43509	24.9		Pass
365	1.0 - 100.0% of mass 198	4883	2.80		Pass
441	Present, but less than mass 443	25278	14.5	(76.7) [b]	Pass
442	40.0 - 100.0% of mass 198	165106	94.5		Pass
443	17.0 - 23.0% of mass 442	32950	18.9	(20.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EM8478-ICC8478	M195471.D	05/09/24	16:41	00:12	Initial cal 50
EM8478-IC8478	M195472.D	05/09/24	17:04	00:35	Initial cal 1
EM8478-IC8478	M195473.D	05/09/24	17:27	00:58	Initial cal 2
EM8478-IC8478	M195474.D	05/09/24	17:51	01:22	Initial cal 5
EM8478-IC8478	M195475.D	05/09/24	18:12	01:43	Initial cal 10
EM8478-IC8478	M195476.D	05/09/24	18:33	02:04	Initial cal 25
EM8478-IC8478	M195477.D	05/09/24	18:55	02:26	Initial cal 80
EM8478-IC8478	M195478.D	05/09/24	19:16	02:47	Initial cal 100
EM8478-IC8478	M195479.D	05/09/24	19:39	03:10	Initial cal 50
EM8478-IC8478	M195480.D	05/09/24	20:00	03:31	Initial cal 1
EM8478-IC8478	M195481.D	05/09/24	20:23	03:54	Initial cal 2
EM8478-IC8478	M195482.D	05/09/24	20:46	04:17	Initial cal 5
EM8478-IC8478	M195483.D	05/09/24	21:07	04:38	Initial cal 10
EM8478-IC8478	M195484.D	05/09/24	21:28	04:59	Initial cal 25
EM8478-IC8478	M195485.D	05/09/24	21:50	05:21	Initial cal 80
EM8478-IC8478	M195486.D	05/09/24	22:11	05:42	Initial cal 100
EM8478-ICV8478	M195487.D	05/09/24	22:33	06:04	Initial cal verification 50
EM8478-ICV8478	M195488.D	05/09/24	22:54	06:25	Initial cal verification 50
EM8478-ICV8478	M195489.D	05/09/24	23:15	06:46	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	EM8478-DFTPP	**Injection Date:**	05/09/24
Lab File ID:	M195470.D	**Injection Time:**	16:29
Instrument ID:	GCMSM		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EM8478-ICV8478	M195490.D	05/09/24	23:37	07:08	Initial cal verification 50
EM8479-CC8467	M195493.D	05/10/24	10:44	18:15	Continuing cal 10
EM8479-CC8467	M195494.D	05/10/24	11:07	18:38	Continuing cal 10
ZZZZZZ	M195495.D	05/10/24	11:38	19:09	(unrelated sample)
ZZZZZZ	M195496.D	05/10/24	11:59	19:30	(unrelated sample)
ZZZZZZ	M195497.D	05/10/24	12:19	19:50	(unrelated sample)
ZZZZZZ	M195498.D	05/10/24	12:40	20:11	(unrelated sample)
ZZZZZZ	M195499.D	05/10/24	13:01	20:32	(unrelated sample)
ZZZZZZ	M195500.D	05/10/24	13:22	20:53	(unrelated sample)
ZZZZZZ	M195501.D	05/10/24	13:43	21:14	(unrelated sample)

Internal Standard Area Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	ECJ297-CC296	**Injection Date:**	05/09/24
Lab File ID:	CJ6511.D	**Injection Time:**	15:40
Instrument ID:	GCMSCJ	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	388362	4.66	1338976	5.47	756975	6.66	1383515	7.87	1108712	10.37	1144889	11.72
Check Std [b]	440228	4.66	1508153	5.47	838569	6.66	1511581	7.87	1205841	10.37	1235821	11.71
Upper Limit [c]	880456	4.83	3016306	5.64	1677138	6.83	3023162	8.04	2411682	10.54	2471642	11.88
Lower Limit [d]	220114	4.49	754077	5.30	419285	6.49	755791	7.70	602921	10.20	617911	11.54

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP54484B-MB1	493223	4.66	1734467	5.47	962181	6.66	1793779	7.87	1414607	10.37	807858	11.71
OP54484B-BS1	415367	4.66	1435584	5.47	797039	6.65	1440399	7.87	1184193	10.36	1236259	11.71
OP54484B-BSD	419385	4.66	1423259	5.47	777749	6.65	1415760	7.87	1134249	10.36	669819	11.71
OP54460-MB1	406045	4.66	1462855	5.47	806560	6.65	1445161	7.86	1127868	10.36	1169922	11.70
OP54460-BS1	378398	4.66	1302512	5.47	715238	6.65	1267255	7.87	1042701	10.36	1063367	11.71
ZZZZZZ	400232	4.66	1382782	5.47	795430	6.65	1357386	7.87	1045273	10.36	1097968	11.71
ZZZZZZ	288723	4.66	1037937	5.47	584952	6.65	1075812	7.86	806554	10.36	810045	11.70
ZZZZZZ	302758	4.66	1075692	5.47	607705	6.65	1095840	7.86	825680	10.35	840689	11.70
ZZZZZZ	420830	4.66	1500810	5.47	842138	6.65	1504206	7.87	1093302	10.36	1098131	11.71
ZZZZZZ	410335	4.66	1462160	5.47	832053	6.65	1498116	7.87	1056017	10.37	1082901	11.71
ZZZZZZ	400872	4.66	1448847	5.47	825068	6.65	1517736	7.87	1067402	10.36	1059682	11.71
ZZZZZZ	371101	4.66	1350565	5.47	759204	6.65	1354660	7.87	965225	10.37	962116	11.71
JD87833-3 [e]	371394	4.66	1320304	5.47	765413	6.66	1361747	7.87	942754	10.37	959803	11.71
JD87833-11 [e]	383650	4.66	1365898	5.47	775833	6.66	1398054	7.87	982335	10.36	979342	11.71
OP54460-MS	368084	4.66	1260425	5.47	702967	6.66	1248334	7.87	875560	10.37	909220	11.72
OP54460-MSD	325780	4.66	1155021	5.47	643949	6.66	1125742	7.87	812237	10.37	833402	11.72
JD87833-2	351757	4.66	1255598	5.47	704743	6.66	1217997	7.87	860982	10.37	881333	11.71
JD87833-4	366062	4.66	1274378	5.47	720354	6.66	1262132	7.87	880759	10.37	914016	11.72
JD87833-5	353722	4.66	1237394	5.47	691359	6.66	1218173	7.87	857333	10.37	895253	11.72
JD87833-6	342593	4.66	1228725	5.47	681462	6.66	1201770	7.87	855342	10.37	877926	11.72
JD87833-8	351776	4.66	1236733	5.47	689793	6.66	1237774	7.87	873540	10.37	899719	11.72
JD87833-10	338801	4.66	1197453	5.47	671880	6.66	1193602	7.87	852283	10.37	867275	11.71
JD87833-12	345198	4.66	1198124	5.47	666886	6.66	1177594	7.87	836561	10.37	874160	11.71
JD87833-13	353006	4.66	1238601	5.47	688785	6.66	1211117	7.87	877322	10.37	876016	11.71
JD87833-16	350487	4.66	1242220	5.47	702587	6.66	1226551	7.87	877665	10.37	892449	11.72
JD87833-1	341096	4.66	1195650	5.47	664891	6.66	1157966	7.87	835035	10.37	838133	11.72
JD87833-7	337378	4.66	1172941	5.47	648873	6.66	1146583	7.87	810452	10.37	846065	11.72
JD87833-9	330644	4.66	1153413	5.47	653496	6.66	1145424	7.87	810050	10.37	823369	11.72
JD87833-14	321346	4.67	1128839	5.47	623856	6.66	1083567	7.87	777218	10.37	804995	11.72
JD87833-15	327409	4.67	1164205	5.47	641642	6.66	1128523	7.87	807431	10.37	826260	11.72

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8

Internal Standard Area Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	ECJ297-CC296	**Injection Date:**	05/09/24
Lab File ID:	CJ6511.D	**Injection Time:**	15:40
Instrument ID:	GCMSCJ	**Method:**	SW846 8270E

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: ECJ296-ICC296 CJ6490.D 05/08/24 16:42
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
(e) Dilution required due to matrix interference.

Internal Standard Area Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	ECJ298-CC296	**Injection Date:**	05/10/24
Lab File ID:	CJ6546.D	**Injection Time:**	09:29
Instrument ID:	GCMSCJ	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	388362	4.66	1338976	5.47	756975	6.66	1383515	7.87	1108712	10.37	1144889	11.72
Check Std [b]	355070	4.65	1258341	5.46	724883	6.64	1338967	7.86	1030003	10.35	962481	11.69
Upper Limit [c]	710140	4.82	2516682	5.63	1449766	6.81	2677934	8.03	2060006	10.52	1924962	11.86
Lower Limit [d]	177535	4.48	629171	5.29	362442	6.47	669484	7.69	515002	10.18	481241	11.52

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP54467-MB1	306406	4.65	1119253	5.46	658396	6.64	1238122	7.85	974687	10.34	956983	11.69
OP54467B-MB1	306406	4.65	1119253	5.46	658396	6.64	1238122	7.85	974687	10.34	956983	11.69
OP54467-BS1	330173	4.65	1171530	5.46	682211	6.64	1265481	7.85	1026959	10.34	1002617	11.69
OP54467B-BS1	330173	4.65	1171530	5.46	682211	6.64	1265481	7.85	1026959	10.34	1002617	11.69
OP54467B-BSD	314961	4.65	1124994	5.46	649094	6.64	1215664	7.85	961769	10.34	913472	11.69
OP54467-BSD	314961	4.65	1124994	5.46	649094	6.64	1215664	7.85	961769	10.34	913472	11.69
ZZZZZZ	351485	4.65	1286016	5.46	747977	6.64	1380596	7.85	1050574	10.34	961234	11.69
ZZZZZZ	385916	4.65	1438954	5.46	844167	6.64	1549152	7.85	1215197	10.34	1153030	11.69
JD87833-17	373478	4.65	1363075	5.46	803570	6.64	1500212	7.85	1166943	10.34	1162453	11.69
ZZZZZZ	401139	4.65	1434631	5.46	847859	6.64	1550143	7.85	1236514	10.34	1186246	11.69
ZZZZZZ	324569	4.65	1199479	5.46	683345	6.64	1316671	7.85	1032126	10.34	352781[e]	11.68
ZZZZZZ	346303	4.65	1267176	5.46	739873	6.64	1345141	7.85	1071543	10.34	1071898	11.69
ZZZZZZ	349229	4.65	1301920	5.46	760483	6.64	1417852	7.85	1108680	10.34	1128252	11.69
ZZZZZZ	373010	4.65	1371406	5.46	795860	6.64	1480874	7.85	1146749	10.34	836038	11.68
ZZZZZZ	365773	4.65	1321072	5.46	772627	6.64	1415204	7.85	1109242	10.34	1098852	11.68
ZZZZZZ	388595	4.65	1439879	5.46	826886	6.64	1507199	7.85	1188407	10.34	1162316	11.68
ZZZZZZ	373578	4.65	1349717	5.46	786792	6.64	1452282	7.85	1150545	10.34	1132347	11.68
ZZZZZZ	399192	4.65	1460536	5.46	834978	6.64	1546064	7.85	1229873	10.34	863823	11.68
ZZZZZZ	388657	4.65	1427705	5.46	815447	6.64	1473994	7.85	1143778	10.34	1052261	11.68
ZZZZZZ	372851	4.65	1365704	5.46	804039	6.64	1489490	7.85	1172522	10.34	826689	11.68
ZZZZZZ	312278	4.65	1148873	5.46	661814	6.64	1186771	7.85	920196	10.34	939178	11.68
ZZZZZZ	356038	4.65	1293405	5.46	738757	6.64	1329235	7.85	1015768	10.34	1034890	11.69
ZZZZZZ	368433	4.65	1350574	5.46	787209	6.64	1478202	7.85	1159542	10.34	1138964	11.68
ZZZZZZ	318327	4.66	1185348	5.46	664454	6.65	1135925	7.86	805627	10.35	729190	11.70
ZZZZZZ	326347	4.65	1192216	5.46	683906	6.65	1227371	7.86	796786	10.35	804754	11.70
ZZZZZZ	288044	4.65	950702	5.46	526690	6.65	953638	7.87	725828	10.35	768419	11.71
ZZZZZZ	309073	4.65	1076000	5.46	596235	6.65	1059240	7.86	761313	10.36	809439	11.71
ZZZZZZ	274690	4.65	1055190	5.46	649930	6.65	1188683	7.86	806736	10.35	815636	11.70
ZZZZZZ	269066	4.65	930096	5.46	561973	6.65	1039793	7.87	788142	10.35	790427	11.70
ZZZZZZ	291340	4.65	1072862	5.46	647621	6.65	1178119	7.86	806232	10.35	786365	11.70
ZZZZZZ	291804	4.65	1090343	5.46	661288	6.65	1215383	7.86	828649	10.35	818143	11.70

IS 1 = 1,4-Dichlorobenzene-d4

Internal Standard Area Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	ECJ298-CC296	**Injection Date:**	05/10/24
Lab File ID:	CJ6546.D	**Injection Time:**	09:29
Instrument ID:	GCMSCJ	**Method:**	SW846 8270E

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: ECJ296-ICC296 CJ6490.D 05/08/24 16:42
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.
(e) Internal standard failing low.

Internal Standard Area Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	ECJ302-CC296	**Injection Date:**	05/13/24
Lab File ID:	CJ6675.D	**Injection Time:**	08:25
Instrument ID:	GCMSCJ	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	388362	4.66	1338976	5.47	756975	6.66	1383515	7.87	1108712	10.37	1144889	11.72
Check Std [b]	263007	4.60	917221	5.41	528254	6.59	992188	7.79	747065	10.28	697707	11.61
Upper Limit [c]	526014	4.77	1834442	5.58	1056508	6.76	1984376	7.96	1494130	10.45	1395414	11.78
Lower Limit [d]	131504	4.43	458611	5.24	264127	6.42	496094	7.62	373533	10.11	348854	11.44

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP54535-MB1	248846	4.60	897613	5.40	514303	6.59	921926	7.79	673204	10.28	614308	11.61
OP54535-BS1	261958	4.60	894083	5.41	512309	6.59	917202	7.79	721857	10.28	669215	11.61
ZZZZZZ	221151	4.60	800690	5.40	468396	6.59	880595	7.79	682368	10.28	650683	11.61
JD87833-5	253902	4.60	891714	5.40	515076	6.59	942003	7.79	719748	10.28	698307	11.61
JD87833-15	248539	4.60	902996	5.40	516050	6.59	929339	7.79	702274	10.28	684568	11.61
OP54535-MS	229337	4.60	792837	5.40	442343	6.59	783531	7.79	639317	10.28	660117	11.61
OP54535-MSD	280414	4.60	937850	5.41	499639	6.59	821280	7.79	605384	10.28	653410	11.62
JD88080-1	232220	4.60	808753	5.40	459505	6.59	805299	7.79	617208	10.28	640254	11.62
ZZZZZZ	259883	4.60	884529	5.40	477603	6.59	810654	7.79	556027	10.28	591991	11.62
ZZZZZZ	240763	4.61	835275	5.41	480465	6.59	857669	7.79	615339	10.29	644913	11.62
ZZZZZZ	243349	4.61	836558	5.41	478005	6.59	852935	7.79	595447	10.28	607016	11.62
ZZZZZZ	271370	4.61	921955	5.41	495438	6.59	860631	7.79	589219	10.28	617843	11.62
ZZZZZZ	430274	4.61	1491022	5.41	811338	6.59	1454384	7.79	1090797	10.32	1159423	11.70
ZZZZZZ	379234	4.61	1330996	5.41	740930	6.60	1130363	7.81	977623	10.32	1043266	11.69
ZZZZZZ	374356	4.61	1249483	5.41	644386	6.60	1100907	7.82	1001862	10.34	1098666	11.72
ZZZZZZ	235091	4.61	784668	5.41	409110	6.60	627734	7.81	457619	10.30	533015	11.64
ZZZZZZ	234692	4.61	807633	5.41	431908	6.60	692601	7.80	438564	10.29	498546	11.63
ZZZZZZ	248635	4.61	842293	5.41	463005	6.59	759216	7.80	457466	10.29	505524	11.63
ZZZZZZ	248980	4.61	856777	5.41	461581	6.59	773402	7.80	457478	10.29	505989	11.63
JD87882-1	458846	4.61	1535133	5.41	849057	6.59	1443946	7.80	926789	10.29	985310	11.63
ZZZZZZ	419610	4.61	1427252	5.41	770717	6.59	1301744	7.80	912540	10.30	975970	11.65
ZZZZZZ	351239	4.61	1228519	5.41	674148	6.59	1139907	7.80	825062	10.30	875717	11.65
ZZZZZZ	385338	4.61	1346978	5.41	749070	6.60	1336302	7.81	941746	10.30	948169	11.65
ZZZZZZ	229114	4.61	789844	5.41	439643	6.59	748695	7.80	511713	10.29	527262	11.64
ZZZZZZ	234781	4.61	800644	5.41	443865	6.60	760246	7.80	528723	10.29	549077	11.63
ZZZZZZ	230249	4.61	809165	5.41	462272	6.59	809893	7.80	536253	10.29	547312	11.63
ZZZZZZ	217830	4.61	752836	5.41	435527	6.59	778552	7.80	567441	10.29	556176	11.63
ZZZZZZ	236234	4.61	805822	5.41	451316	6.59	793541	7.80	561149	10.29	564626	11.63
ZZZZZZ	224566	4.61	765099	5.41	436312	6.59	768044	7.80	558900	10.29	555037	11.63
ZZZZZZ	226477	4.61	775220	5.41	436660	6.59	770818	7.80	571038	10.29	575388	11.63
ZZZZZZ	206825	4.61	719646	5.41	411940	6.59	741643	7.80	538577	10.29	537727	11.64
ZZZZZZ	226967	4.61	819211	5.41	471323	6.60	833792	7.80	594495	10.30	603413	11.64

Internal Standard Area Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	ECJ302-CC296	**Injection Date:**	05/13/24
Lab File ID:	CJ6675.D	**Injection Time:**	08:25
Instrument ID:	GCMSCJ	**Method:**	SW846 8270E

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: ECJ296-ICC296 CJ6490.D 05/08/24 16:42
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Internal Standard Area Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	EM8483-CC8478	**Injection Date:**	05/14/24
Lab File ID:	M195571.D	**Injection Time:**	09:54
Instrument ID:	GCMSM	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	144180	3.70	612564	4.44	347459	5.67	744423	7.04	701301	10.03	789044	11.63
Check Std [b]	140797	3.69	600728	4.43	341816	5.66	717599	7.02	653385	10.02	691122	11.63
Upper Limit [c]	281594	3.86	1201456	4.60	683632	5.83	1435198	7.19	1306770	10.19	1382244	11.80
Lower Limit [d]	70399	3.52	300364	4.26	170908	5.49	358800	6.85	326693	9.85	345561	11.46

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	125462	3.69	511502	4.43	281497	5.66	585116	7.02	545118	10.02	622671	11.62
ZZZZZZ	124489	3.69	503483	4.43	283692	5.66	589741	7.02	546389	10.01	635679	11.62
ZZZZZZ	117784	3.69	491416	4.43	275576	5.66	576862	7.02	541115	10.02	622089	11.62
ZZZZZZ	136471	3.69	538744	4.43	295595	5.66	587254	7.02	540879	10.01	616041	11.62
JD87833-17 [e]	130260	3.69	522071	4.43	281784	5.66	563768	7.02	512881	10.01	589730	11.62
ZZZZZZ	130673	3.69	514431	4.43	284614	5.66	589711	7.02	557569	10.01	631669	11.62
ZZZZZZ	124309	3.69	490867	4.43	276154	5.66	592101	7.02	559373	10.02	639113	11.62
ZZZZZZ	125097	3.69	521087	4.43	293103	5.66	592845	7.02	584784	10.01	671614	11.62
ZZZZZZ	127561	3.69	520382	4.43	289187	5.66	599264	7.02	563913	10.02	659103	11.62
ZZZZZZ	137392	3.69	550916	4.43	305562	5.66	616167	7.02	560823	10.02	642478	11.62
ZZZZZZ	115306	3.69	470016	4.43	262184	5.66	541995	7.02	502774	10.02	592361	11.62
ZZZZZZ	124730	3.69	491377	4.43	277414	5.66	564284	7.02	518729	10.01	616549	11.62
ZZZZZZ	129732	3.69	511322	4.43	287578	5.66	594245	7.02	553539	10.02	638531	11.62
ZZZZZZ	274540	3.69	1133743	4.43	583000	5.66	1231349	7.02	1095490	10.05	1203468	11.69
ZZZZZZ	279399	3.69	1103152	4.44	562233	5.67	1093458	7.03	901635	10.03	914517	11.64
ZZZZZZ	249480	3.69	1006929	4.43	548348	5.66	1042960	7.03	821521	10.03	912610	11.63
ZZZZZZ	117862	3.69	479083	4.43	192642	5.66	510375	7.02	313615[f]	10.02	29445[f]	11.62
ZZZZZZ	249424	3.69	1003551	4.43	546153	5.66	1049571	7.02	820823	10.02	826021	11.63
ZZZZZZ	262097	3.69	1083096	4.43	589034	5.66	1121880	7.03	823792	10.02	863358	11.63
ZZZZZZ	266099	3.69	1065461	4.43	561950	5.66	1112473	7.02	841869	10.02	862282	11.63
ZZZZZZ	126357	3.69	515524	4.43	325597	5.66	675648	7.02	613590	10.02	659732	11.63

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: EM8478-ICC8478 M195471.D 05/09/24 16:41
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Internal Standard Area Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	EM8483-CC8478	**Injection Date:**	05/14/24
Lab File ID:	M195571.D	**Injection Time:**	09:54
Instrument ID:	GCMSM	**Method:**	SW846 8270E

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

(e) Sample extracted outside the holding time. Confirmation run.
(f) Response outside of control limits; ISTD does not reference any reported target analytes.

Surrogate Recovery Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8270E **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD87833-17	CJ6555.D	35	25	75	66	65	52
JD87833-17	M195578.D	39	26	83	74	83	67
OP54467-BS1	CJ6551.D	28	22	56	64	66	40
OP54467-BSD	CJ6552.D	34	29	60	82	81	56
OP54467-MB1	CJ6550.D	34	26	60	87	83	55

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-71%
S2 = Phenol-d5	10-58%
S3 = 2,4,6-Tribromophenol	22-144%
S4 = Nitrobenzene-d5	28-118%
S5 = 2-Fluorobiphenyl	34-116%
S6 = Terphenyl-d14	10-127%

Surrogate Recovery Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8270E **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD87833-1	CJ6538.D	68	72	90	72	77	81
JD87833-2	CJ6529.D	74	75	91	74	79	81
JD87833-3	CJ6525.D	65	68	77	67	71	75
JD87833-4	CJ6530.D	74	76	95	79	83	87
JD87833-5	CJ6680.D	71	74	95	73	82	86
JD87833-5	CJ6531.D	75	80	103	79	87	92
JD87833-6	CJ6532.D	72	76	93	73	80	84
JD87833-7	CJ6539.D	66	72	89	72	79	79
JD87833-8	CJ6533.D	61	65	79	64	69	74
JD87833-9	CJ6540.D	70	75	94	75	80	83
JD87833-10	CJ6534.D	74	79	98	76	82	89
JD87833-11	CJ6526.D	69	71	83	69	76	80
JD87833-12	CJ6535.D	73	75	95	76	79	86
JD87833-13	CJ6536.D	74	76	97	77	82	88
JD87833-14	CJ6541.D	71	74	91	71	78	80
JD87833-15	CJ6681.D	66	70	84	67	75	80
JD87833-15	CJ6542.D	74	77	93	75	82	82
JD87833-16	CJ6537.D	70	74	90	72	76	80
OP54460-BS1	CJ6517.D	75	80	95	76	84	87
OP54460-MB1	CJ6516.D	75	78	79	74	79	85
OP54460-MS	CJ6527.D	62	66	78	64	70	74
OP54460-MSD	CJ6528.D	57	60	72	59	62	65

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-99%
S2 = Phenol-d5	10-96%
S3 = 2,4,6-Tribromophenol	10-123%
S4 = Nitrobenzene-d5	10-109%
S5 = 2-Fluorobiphenyl	11-109%
S6 = Terphenyl-d14	10-120%

Initial Calibration Summary

Job Number: JD87833 **Sample:** ECJ296-ICC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6490.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Response Factor Report GCMSCJ

Method : D:\MassHunter\GC...methods\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

Calibration Files
2 =cj6492.D 5 =cj6493.D 25 =cj6495.D 80 =cj6496.D
100 =cj6497.D 50 =cj6490.D 1 =cj6491.D 10 =cj6494.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD									
2) 1,4-Dioxane	0.508	0.548	0.573	0.538	0.583	0.588	0.495	0.508	0.543	6.75
3) Pyridine	1.223	1.320	1.506	1.441	1.592	1.597	1.230	1.339	1.406	10.71
4) N-Nitrosodim	0.702	0.710	0.800	0.745	0.822	0.824	0.675	0.722	0.750	7.73
5) 2-Fluorophen	1.045	1.147	1.215	1.156	1.267	1.279	0.991	1.097	1.150	8.94
6) Indene	1.978	2.113	2.152	1.917	2.058	2.189	2.027	2.024	2.057	4.40
7) Cumene	2.454	2.685	2.803	2.559	2.819	2.866	2.478	2.530	2.649	6.23
8) Phenol-d5	1.353	1.505	1.559	1.452	1.604	1.627	1.333	1.431	1.483	7.42
9) Phenol	1.470	1.595	1.675	1.568	1.731	1.751	1.447	1.544	1.598	7.10
10) Aniline	1.799	1.966	2.096	1.903	2.056	2.150	1.888	1.872	1.966	6.24
11) bis(2-Chloro	1.221	1.310	1.340	1.227	1.343	1.400	1.191	1.262	1.287	5.65
12) 2-Chlorophen	1.109	1.206	1.272	1.178	1.288	1.333	1.090	1.160	1.205	7.22
13) Decane	1.545	1.598	1.635	1.469	1.569	1.694	1.514	1.504	1.566	4.73
14) 1,3-Dichloro	1.308	1.421	1.467	1.335	1.438	1.493	1.265	1.367	1.387	5.82
15) 1,4-Dichloro	1.333	1.451	1.468	1.315	1.448	1.514	1.352	1.357	1.405	5.27
16) Benzyl alcoh	0.749	0.806	0.853	0.805	0.888	0.898	0.730	0.788	0.815	7.50
17) 1,2-Dichloro	1.326	1.369	1.421	1.252	1.389	1.425	1.239	1.310	1.341	5.34
18) Acetophenone	1.833	1.893	1.941	1.679	1.842	1.944	1.758	1.820	1.839	4.90
19) 2-Methylphen	1.045	1.134	1.162	1.057	1.163	1.195	1.053	1.062	1.109	5.49
20) 2,2'-oxybis(	0.345	0.367	0.383	0.345	0.376	0.390	0.348	0.348	0.363	5.13
21) 3&4-Methylph	1.082	1.174	1.215	1.061	1.176	1.217	1.071	1.135	1.141	5.58
22) n-Nitroso-di	0.877	0.951	0.966	0.871	0.959	0.984	0.897	0.917	0.928	4.66
23) Hexachloroet	0.468	0.550	0.559	0.504	0.561	0.582	0.499	0.522	0.531	7.29
24) I Naphthalene-d8	ISTD									
25) Nitrobenzene	0.373	0.400	0.439	0.393	0.435	0.462	0.372	0.403	0.410	7.92
26) Nitrobenzene	0.403	0.424	0.443	0.398	0.438	0.471	0.379	0.405	0.420	7.07
27) Quinoline	0.563	0.608	0.657	0.588	0.656	0.688	0.569	0.611	0.618	7.32
28) Isophorone	0.676	0.707	0.768	0.686	0.754	0.790	0.679	0.703	0.720	6.13
29) 2-Nitropheno	0.141	0.153	0.180	0.168	0.184	0.196	0.143	0.157	0.165	12.23
30) 2,4-Dimethyl	0.336	0.370	0.391	0.350	0.381	0.405	0.336	0.360	0.366	6.93
31) Benzoic acid		0.213	0.300	0.286	0.321	0.320		0.240	0.280	15.75
32) bis(2-Chloro	0.437	0.462	0.484	0.419	0.454	0.495	0.407	0.445	0.450	6.66
33) 2,4-Dichloro	0.255	0.282	0.306	0.271	0.295	0.316	0.255	0.280	0.283	7.85
34) 2,6-Dichloro	0.258	0.278	0.298	0.264	0.287	0.301	0.242	0.272	0.275	7.36
35) 1,3,5-Trichl	0.322	0.339	0.358	0.316	0.343	0.363	0.319	0.334	0.337	5.29
36) 1,2,4-Trichl	0.306	0.325	0.340	0.308	0.333	0.348	0.291	0.320	0.321	5.96
37) 1,2,3-Trichl	0.304	0.316	0.338	0.295	0.323	0.340	0.294	0.305	0.314	5.69
38) Naphthalene	0.938	0.980	1.030	0.883	0.955	1.022	0.902	0.955	0.958	5.43
39) 4-Chloroanil	0.378	0.403	0.434	0.379	0.414	0.444	0.376	0.396	0.403	6.48
40) 2,3-Dichloro	0.307	0.329	0.349	0.312	0.342	0.363	0.305	0.321	0.329	6.44
41) Hydroquinone	0.259	0.297	0.331	0.259	0.260	0.308	0.269	0.287	0.284	9.37
42) Hexachlorobu	0.185	0.204	0.210	0.188	0.207	0.220	0.179	0.193	0.198	7.14
43) 4-Chloro-3-m	0.278	0.302	0.331	0.299	0.328	0.342	0.269	0.300	0.306	8.51
44) 2-Methylnaph	0.554	0.569	0.607	0.534	0.575	0.625	0.522	0.559	0.568	6.07
45) 1-Methylnaph	0.517	0.543	0.582	0.513	0.551	0.590	0.506	0.543	0.543	5.70

Initial Calibration Summary

Job Number: JD87833 **Sample:** ECJ296-ICC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6490.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

46) I Acenaphthene-d10 ----------ISTD----------
47) Hexachlorocy 0.351 0.381 0.434 0.371 0.368 0.440 0.334 0.375 0.382 9.75
48) 1,2,4,5-tetr 0.559 0.599 0.619 0.543 0.570 0.624 0.546 0.563 0.578 5.50
49) 2,4,6-Trichl 0.304 0.348 0.385 0.346 0.364 0.406 0.305 0.347 0.351 10.05
50) 2,4,5-Trichl 0.334 0.386 0.428 0.381 0.402 0.442 0.338 0.379 0.386 9.88
51) 2-Fluorobiph 1.195 1.304 1.352 1.189 1.234 1.367 1.183 1.244 1.259 5.84
52) 2-Chloronaph 1.021 1.137 1.170 1.015 1.060 1.173 1.045 1.067 1.086 5.95
53) Biphenyl 1.315 1.421 1.471 1.283 1.324 1.473 1.349 1.359 1.374 5.26
54) 2-Nitroanili 0.324 0.362 0.408 0.364 0.385 0.420 0.322 0.354 0.367 9.65
55) Dimethylphth 1.148 1.262 1.360 1.186 1.232 1.384 1.191 1.237 1.250 6.66
56) Acenaphthyle 1.411 1.577 1.698 1.467 1.525 1.719 1.492 1.523 1.551 6.98
57) 2,6-Dinitrot 0.216 0.255 0.289 0.268 0.284 0.305 0.231 0.252 0.262 11.44
58) 3-Nitroanili 0.248 0.287 0.332 0.298 0.316 0.345 0.251 0.288 0.296 11.91
59) Acenaphthene 1.068 1.134 1.185 1.031 1.084 1.198 1.030 1.095 1.103 5.81
60) 2,4-Dinitrop 0.068 0.093 0.148 0.159 0.174 0.176 0.109 0.132 32.19
---- Quadratic regression ---- Coefficient = 0.9956
Response Ratio = -0.01185 + 0.15424 *A + 0.00410 *A^2

61) 4-Nitropheno 0.147 0.180 0.212 0.199 0.211 0.231 0.184 0.195 13.98
62) Dibenzofuran 1.485 1.572 1.641 1.432 1.485 1.665 1.454 1.514 1.531 5.63
63) 2,4-Dinitrot 0.294 0.350 0.413 0.375 0.388 0.426 0.298 0.356 0.363 13.40
64) 2,3,4,6-Tetr 0.248 0.291 0.331 0.310 0.326 0.345 0.227 0.295 0.297 13.85
65) Diethylphtha 1.182 1.290 1.392 1.221 1.284 1.412 1.173 1.242 1.275 7.02
66) Fluorene 1.138 1.238 1.300 1.138 1.185 1.318 1.160 1.199 1.209 5.79
67) 4-Chlorophen 0.542 0.591 0.628 0.553 0.573 0.637 0.542 0.557 0.578 6.53
68) 4-Nitroanili 0.256 0.293 0.339 0.306 0.321 0.348 0.245 0.297 0.301 12.06

69) I Phenanthrene-d10 ----------ISTD----------
70) 4,6-Dinitro- 0.074 0.106 0.110 0.116 0.121 0.081 0.101 19.24
71) n-Nitrosodip 0.514 0.566 0.600 0.525 0.530 0.605 0.492 0.536 0.546 7.43
72) 1,2-Diphenyl 0.717 0.784 0.838 0.732 0.746 0.852 0.694 0.761 0.766 7.34
73) pentachloron 0.032 0.034 0.037 0.034 0.036 0.039 0.032 0.033 0.035# 7.17
74) 2,4,6-Tribro 0.073 0.084 0.098 0.091 0.094 0.103 0.072 0.086 0.088 12.55
75) 4-Bromopheny 0.162 0.182 0.198 0.177 0.183 0.202 0.180 0.173 0.182 7.07
76) Hexachlorobe 0.194 0.212 0.217 0.194 0.204 0.221 0.194 0.191 0.203 5.84
77) Pentachlorop 0.087 0.108 0.137 0.134 0.138 0.149 0.115 0.124 17.41
78) Phenanthrene 0.925 1.008 1.036 0.910 0.932 1.040 0.942 0.940 0.967 5.45
79) Anthracene 0.900 0.985 1.056 0.920 0.954 1.070 0.908 0.950 0.968 6.70
80) Carbazole 0.835 0.913 0.988 0.861 0.879 1.001 0.857 0.881 0.902 6.80
81) Di-n-butylph 0.974 1.093 1.239 1.109 1.146 1.280 0.962 1.112 1.114 10.04
82) Fluoranthene 0.948 1.041 1.147 1.035 1.059 1.168 0.935 1.039 1.047 7.87
83) Octadecane 0.494 0.539 0.601 0.533 0.540 0.625 0.519 0.541 0.549 7.82

84) I Chrysene-d12 ----------ISTD----------
85) benzidine 0.682 0.695 0.790 0.699 0.641 0.839 0.674 0.717 9.82
86) Pyrene 1.282 1.405 1.483 1.327 1.309 1.519 1.223 1.335 1.360 7.43
87) Terphenyl-d1 0.937 0.993 1.086 0.958 0.971 1.103 0.913 0.945 0.988 7.04
88) Butylbenzylp 0.505 0.574 0.689 0.643 0.641 0.725 0.490 0.588 0.607 13.77
89) Benzo[a]anth 1.231 1.289 1.391 1.248 1.251 1.419 1.232 1.226 1.286 5.94
90) 3,3'-Dichlor 0.372 0.417 0.496 0.473 0.485 0.531 0.352 0.434 0.445 14.06
91) Chrysene 1.136 1.209 1.269 1.145 1.138 1.317 1.121 1.158 1.187 6.06
92) bis(2-Ethylh 0.727 0.838 0.997 0.907 0.910 1.059 0.855 0.899 12.08

93) I Perylene-d12 ----------ISTD----------
94) Di-n-octylph 1.081 1.330 1.659 1.555 1.515 1.750 1.383 1.468 15.29
95) Benzo[b]fluo 1.049 1.180 1.280 1.314 1.253 1.431 1.030 1.131 1.208 11.36
96) Benzo[k]fluo 1.052 1.145 1.244 1.000 0.975 1.154 1.016 1.113 1.087 8.49
97) Benzo[a]pyre 0.873 0.986 1.112 1.027 1.008 1.151 0.880 0.965 1.000 9.88
98) Indeno[1,2,3 1.047 1.192 1.355 1.237 1.206 1.395 1.080 1.163 1.209 9.98

Initial Calibration Summary

Job Number: JD87833 **Sample:** ECJ296-ICC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6490.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

```
 99) Dibenz(a,h)a 0.673 0.782 0.909 0.854 0.839 0.963 0.655 0.758 0.804  13.46
100) Dibenz[a,h]a 0.859 0.962 1.079 0.987 0.957 1.120 0.831 0.935 0.966  10.19
101) 7,12-Dimethy 0.399 0.469 0.530 0.511 0.489 0.569 0.407 0.472 0.481  12.03
102) Benzo[g,h,i] 0.828 0.919 1.013 0.930 0.900 1.055 1.000 0.873 0.940   8.20

103)     1,4-Dichlorobenzene-d ----------------ISTD---------------------
104) Benzaldehyde 1.109 1.175 1.058 1.169 1.113 1.188 1.124 1.224 1.145   4.65

105)     Phenanthrene-d10a     ----------------ISTD---------------------
106) Atrazine     0.089 0.087 0.084 0.098 0.096 0.099 0.080 0.095 0.091   7.47

107) I   Naphthalene-d8a       ----------------ISTD---------------------
108) Caprolactam  0.138 0.166 0.158 0.186 0.183 0.195 0.155 0.178 0.170  11.23

109)     Phenanthrene-d10b     ----------------ISTD---------------------
110) 1-chloroocta 0.337 0.381 0.363 0.395 0.384 0.414 0.335 0.409 0.377   8.07
111) o-terphenyl  0.495 0.510 0.466 0.514 0.507 0.522 0.468 0.546 0.503   5.35


 --------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           mCJ296.m          Thu May 09 12:07:52 2024
```

Initial Calibration Verification

Job Number: JD87833 **Sample:** ECJ296-ICV296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6506.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : D:\MassHunter\GCMS\1\data\ecj296\cj6506.D Vial: 18
Acq On : 08 May 2024 10:02 pm Operator: rocquans
Sample : icv296-50 Inst : GCMSCJ
Misc : op53120,ecj296,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : D:\MassHunter\GC...methods\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Thu May 09 11:29:25 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	123	0.00	4.66
2	t	1,4-Dioxane	0.543	0.546	-0.6	114	0.00	2.45
6	t	Indene	2.057	2.023	1.7	113	0.00	4.82
7	t	Cumene	2.649	2.665	-0.6	114	0.00	4.15
11	t	bis(2-Chloroethyl)ether	1.287	1.294	-0.5	113	0.00	4.49
13	t	Decane	1.566	1.550	1.0	112	0.00	4.56
14	t	1,3-Dichlorobenzene	1.387	1.406	-1.4	116	0.00	4.63
15	t	1,4-Dichlorobenzene	1.405	1.394	0.8	113	0.00	4.67
16	t	Benzyl alcohol	0.815	0.812	0.4	111	0.00	4.74
17	t	1,2-Dichlorobenzene	1.341	1.324	1.3	114	0.00	4.77
18	t	Acetophenone	1.839	1.781	3.2	112	0.00	4.92
20	t	2,2'-oxybis(1-Chloropropa	0.363	0.358	1.4	113	0.00	4.83
23	t	Hexachloroethane	0.531	0.538	-1.3	113	0.00	4.98
24	I	Naphthalene-d8	1.000	1.000	0.0	124	0.00	5.47
26	t	Nitrobenzene	0.420	0.403	4.0	106	0.00	5.02
27	t	Quinoline	0.618	0.599	3.1	108	-0.01	5.69
28	t	Isophorone	0.720	0.713	1.0	112	0.00	5.17
32	t	bis(2-Chloroethoxy)methan	0.450	0.447	0.7	112	0.00	5.30
35		1,3,5-Trichlorobenzene	0.337	0.340	-0.9	116	0.00	5.23
36	t	1,2,4-Trichlorobenzene	0.321	0.321	0.0	114	0.00	5.43
37		1,2,3-Trichlorobenzene	0.314	0.313	0.3	114	0.00	5.57
38	t	Naphthalene	0.958	0.950	0.8	115	0.00	5.48
40	t	2,3-Dichloroaniline	0.329	0.317	3.6	108	0.00	6.11
42	t	Hexachlorobutadiene	0.198	0.198	0.0	112	0.00	5.55
44	t	2-Methylnaphthalene	0.568	0.566	0.4	112	0.00	5.92
45	t	1-Methylnaphthalene	0.543	0.536	1.3	113	0.00	5.99
46	I	Acenaphthene-d10	1.000	1.000	0.0	122	0.00	6.65
47	t	Hexachlorocyclopentadiene	0.382	0.420	-9.9	117	0.00	6.03
48		1,2,4,5-tetrachlorobenzen	0.578	0.569	1.6	112	0.00	6.03

Initial Calibration Verification

Job Number: JD87833 **Sample:** ECJ296-ICV296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6506.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

52	t	2-Chloronaphthalene	1.086	1.077	0.8	112	0.00	6.25
53	t	Biphenyl	1.374	1.343	2.3	112	0.00	6.24
55	t	Dimethylphthalate	1.250	1.258	-0.6	111	0.00	6.45
56	t	Acenaphthylene	1.551	1.597	-3.0	114	0.00	6.55
57	t	2,6-Dinitrotoluene	0.262	0.269	-2.7	108	0.00	6.49
59	t	Acenaphthene	1.103	1.101	0.2	113	0.00	6.68

			AvgRF	CCRF	% Dev			
62	t	Dibenzofuran	1.531	1.514	1.1	111	0.00	6.81
63	t	2,4-Dinitrotoluene	0.363	0.365	-0.6	105	0.00	6.79
65	t	Diethylphthalate	1.275	1.273	0.2	110	0.00	6.97
66	t	Fluorene	1.209	1.209	0.0	112	0.00	7.08
67	t	4-Chlorophenyl-phenylethe	0.578	0.583	-0.9	112	0.00	7.08
69	I	Phenanthrene-d10	1.000	1.000	0.0	121	0.00	7.87
72	t	1,2-Diphenylhydrazine	0.766	0.778	-1.6	110	-0.01	7.20
73		pentachloronitrobenzene	0.035	0.034#	2.9	106	0.00	7.71
75	t	4-Bromophenyl-phenylether	0.182	0.190	-4.4	114	0.00	7.48
76	t	Hexachlorobenzene	0.203	0.201	1.0	110	0.00	7.53
78	t	Phenanthrene	0.967	0.962	0.5	112	0.00	7.89
79	t	Anthracene	0.968	0.979	-1.1	111	0.00	7.94
80	t	Carbazole	0.902	0.904	-0.2	109	0.00	8.07
81	t	Di-n-butylphthalate	1.114	1.170	-5.0	110	0.00	8.40
82	t	Fluoranthene	1.047	1.074	-2.6	111	-0.01	8.98
83	t	Octadecane	0.549	0.560	-2.0	108	0.00	7.77
84	I	Chrysene-d12	1.000	1.000	0.0	122	-0.01	10.36
86	t	Pyrene	1.360	1.347	1.0	108	0.00	9.19
88	t	Butylbenzylphthalate	0.607	0.645	-6.3	109	-0.01	9.83
89	t	Benzo[a]anthracene	1.286	1.255	2.4	108	-0.01	10.35
91	t	Chrysene	1.187	1.196	-0.8	111	-0.01	10.39
92	t	bis(2-Ethylhexyl)phthalat	0.899	0.930	-3.4	107	-0.01	10.40
93	I	Perylene-d12	1.000	1.000	0.0	119	-0.01	11.71
94	t	Di-n-octylphthalate	1.468	1.583	-7.8	107	-0.01	11.01
95	t	Benzo[b]fluoranthene	1.208	1.252	-3.6	104	0.00	11.35
96	t	Benzo[k]fluoranthene	1.087	1.136	-4.5	117	0.00	11.38
97	t	Benzo[a]pyrene	1.000	1.063	-6.3	110	-0.01	11.65
98	t	Indeno[1,2,3-cd]pyrene	1.209	1.298	-7.4	111	-0.01	12.90
99	t	Dibenz(a,h)acridine	0.804	0.882	-9.7	109	-0.01	12.61
100	t	Dibenz[a,h]anthracene	0.966	1.035	-7.1	110	-0.01	12.92
101	t	7,12-Dimethylbenz(a)anthr	0.481	0.470	2.3	98	0.00	11.34
102	t	Benzo[g,h,i]perylene	0.940	0.980	-4.3	110	-0.01	13.24

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: ECJ296-ICV296
Lab FileID: CJ6506.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cj6490.D mCJ296.m Thu May 09 11:35:01 2024

Initial Calibration Verification

Job Number: JD87833 **Sample:** ECJ296-ICV296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6507.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : D:\MassHunter\GCMS\1\data\ecj296\cj6507.D Vial: 19
Acq On : 08 May 2024 10:20 pm Operator: rocquans
Sample : icv296-50 Inst : GCMSCJ
Misc : op53120,ecj296,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : D:\MassHunter\GC...methods\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Thu May 09 11:29:25 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	136	0.00	4.66
9	t	Phenol	1.598	1.485	7.1	116	0.00	4.42
12	t	2-Chlorophenol	1.205	1.151	4.5	118	0.00	4.52
19	t	2-Methylphenol	1.109	1.031	7.0	118	0.00	4.81
21	t	3&4-Methylphenol	1.141	1.077	5.6	121	0.00	4.90
24	I	Naphthalene-d8	1.000	1.000	0.0	136	0.00	5.47
29	t	2-Nitrophenol	0.165	0.164	0.6	114	0.00	5.22
30	t	2,4-Dimethylphenol	0.366	0.354	3.3	119	0.00	5.24
31	t	Benzoic acid	0.280	0.263	6.1	112	0.00	5.31
33	t	2,4-Dichlorophenol	0.283	0.278	1.8	120	0.00	5.37
34	t	2,6-Dichlorophenol	0.275	0.268	2.5	122	0.00	5.51
41	t	Hydroquinone	0.284	0.336	-18.3	149	0.00	5.70
43	t	4-Chloro-3-methylphenol	0.306	0.297	2.9	118	0.00	5.80
46	I	Acenaphthene-d10	1.000	1.000	0.0	138	0.00	6.65
49	t	2,4,6-Trichlorophenol	0.351	0.351	0.0	119	0.00	6.10
50	t	2,4,5-Trichlorophenol	0.386	0.382	1.0	119	0.00	6.13
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	88.281	11.7	110	0.00	6.69
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.195	0.193	1.0	116	0.00	6.72
64		2,3,4,6-Tetrachlorophenol	0.297	0.303	-2.0	121	0.00	6.89
69	I	Phenanthrene-d10	1.000	1.000	0.0	139	0.00	7.87
70	t	4,6-Dinitro-2-methylpheno	0.101	0.094	6.9	108	-0.01	7.10
77	t	Pentachlorophenol	0.124	0.124	0.0	116	0.00	7.69

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: ECJ296-ICV296
Lab FileID: CJ6507.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cj6490.D mCJ296.m Thu May 09 11:39:49 2024

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: ECJ296-ICV296
Lab FileID: CJ6508.D

Evaluate Continuing Calibration Report

Data File : D:\MassHunter\GCMS\1\data\ecj296\cj6508.D Vial: 20
Acq On : 08 May 2024 10:39 pm Operator: rocquans
Sample : icv296-50 Inst : GCMSCJ
Misc : op53120,ecj296,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : D:\MassHunter\GC...methods\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Thu May 09 11:29:25 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	145	0.00	4.66
3	t	Pyridine	1.406	1.384	1.6	126	0.00	2.75
4	t	N-Nitrosodimethylamine	0.750	0.798	-6.4	141	0.00	2.74
10		Aniline	1.966	1.914	2.6	130	0.00	4.45
22	t	n-Nitroso-di-n-propylamin	0.928	0.889	4.2	131	-0.01	4.91
24	I	Naphthalene-d8	1.000	1.000	0.0	147	0.00	5.47
39	t	4-Chloroaniline	0.403	0.394	2.2	131	0.00	5.51
46	I	Acenaphthene-d10	1.000	1.000	0.0	149	0.00	6.65
54	t	2-Nitroaniline	0.367	0.362	1.4	128	0.00	6.32
58	t	3-Nitroaniline	0.296	0.296	0.0	128	0.00	6.62
68	t	4-Nitroaniline	0.301	0.293	2.7	125	0.00	7.09
69	I	Phenanthrene-d10	1.000	1.000	0.0	150	0.00	7.87
71	t	n-Nitrosodiphenylamine	0.546	0.531	2.7	132	0.00	7.17
84	I	Chrysene-d12	1.000	1.000	0.0	147	-0.01	10.36
85		benzidine	0.717	0.878	-22.5	154	0.00	9.11
90	t	3,3'-Dichlorobenzidine	0.445	0.458	-2.9	127	0.00	10.33

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cj6490.D mCJ296.m Thu May 09 11:41:41 2024

Initial Calibration Verification

Job Number: JD87833 **Sample:** ECJ296-ICV296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6509.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : D:\MassHunter\GCMS\1\data\ecj296\cj6509.D Vial: 21
Acq On : 08 May 2024 10:58 pm Operator: rocquans
Sample : icv296-50 Inst : GCMSCJ
Misc : op53120,ecj296,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : D:\MassHunter\GC...methods\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Thu May 09 12:05:48 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	100	0.00	4.66
104	Benzaldehyde	1.145	1.152	-0.6	97	0.00	4.38
105	Phenanthrene-d10a	1.000	1.000	0.0	96	0.00	7.86
106	Atrazine	0.091	0.095	-4.4	92	0.00	7.61
107 I	Naphthalene-d8a	1.000	1.000	0.0	97	0.00	5.47
108 T	Caprolactam	0.170	0.183	-7.6	91	0.00	5.72

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cj6498A.D mCJ296.m Thu May 09 12:07:31 2024

Continuing Calibration Summary

Job Number: JD87833 **Sample:** ECJ297-CC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6511.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...\Mayo\ecj297\cj6511.D Vial: 2
Acq On : 09 May 2024 03:40 pm Operator: rocquans
Sample : cc296-50 Inst : GCMSCJ
Misc : op53120,ecj297,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...methods\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Thu May 09 12:05:48 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	0.00	4.66
2	t	1,4-Dioxane	0.543	0.613	-12.9	118	0.00	2.45
3	t	Pyridine	1.406	1.612	-14.7	114	0.00	2.75
4	t	N-Nitrosodimethylamine	0.750	0.849	-13.2	117	0.00	2.73
5	S	2-Fluorophenol	1.150	1.307	-13.7	116	0.00	3.80
6	t	Indene	2.057	2.145	-4.3	111	0.00	4.82
7	t	Cumene	2.649	2.921	-10.3	116	0.00	4.15
8	S	Phenol-d5	1.483	1.651	-11.3	115	0.00	4.42
9	t	Phenol	1.598	1.753	-9.7	113	0.00	4.43
10		Aniline	1.966	2.149	-9.3	113	0.00	4.45
11	t	bis(2-Chloroethyl)ether	1.287	1.386	-7.7	112	0.00	4.49
12	t	2-Chlorophenol	1.205	1.323	-9.8	112	0.00	4.52
13	t	Decane	1.566	1.622	-3.6	109	0.00	4.56
14	t	1,3-Dichlorobenzene	1.387	1.522	-9.7	116	0.00	4.63
15	t	1,4-Dichlorobenzene	1.405	1.535	-9.3	115	0.00	4.67
16	t	Benzyl alcohol	0.815	0.888	-9.0	112	0.00	4.75
17	t	1,2-Dichlorobenzene	1.341	1.439	-7.3	114	0.00	4.77
18	t	Acetophenone	1.839	1.912	-4.0	111	0.00	4.92
19	t	2-Methylphenol	1.109	1.187	-7.0	113	0.00	4.81
20	t	2,2'-oxybis(1-Chloropropa	0.363	0.390	-7.4	113	0.00	4.83
21	t	3&4-Methylphenol	1.141	1.196	-4.8	111	0.00	4.91
22	t	n-Nitroso-di-n-propylamin	0.928	0.953	-2.7	110	0.00	4.92
23	t	Hexachloroethane	0.531	0.584	-10.0	114	0.00	4.99
24	I	Naphthalene-d8	1.000	1.000	0.0	113	0.00	5.47
25	S	Nitrobenzene-d5	0.410	0.447	-9.0	109	0.00	5.01
26	t	Nitrobenzene	0.420	0.460	-9.5	110	0.00	5.03
27	t	Quinoline	0.618	0.668	-8.1	109	0.00	5.70
28	t	Isophorone	0.720	0.779	-8.2	111	0.00	5.18
29	t	2-Nitrophenol	0.165	0.187	-13.3	108	0.00	5.23
30	t	2,4-Dimethylphenol	0.366	0.395	-7.9	110	0.00	5.24
31	t	Benzoic acid	0.280	0.310	-10.7	109	0.00	5.32
32	t	bis(2-Chloroethoxy)methan	0.450	0.479	-6.4	109	0.00	5.31
33	t	2,4-Dichlorophenol	0.283	0.316	-11.7	112	0.00	5.38
34	t	2,6-Dichlorophenol	0.275	0.302	-9.8	113	0.00	5.51
35		1,3,5-Trichlorobenzene	0.337	0.362	-7.4	112	0.00	5.23
36	t	1,2,4-Trichlorobenzene	0.321	0.350	-9.0	113	0.00	5.43
37		1,2,3-Trichlorobenzene	0.314	0.336	-7.0	112	0.00	5.57
38	t	Naphthalene	0.958	1.015	-5.9	112	0.00	5.48
39	t	4-Chloroaniline	0.403	0.435	-7.9	110	0.00	5.51
40	t	2,3-Dichloroaniline	0.329	0.352	-7.0	109	0.00	6.11
41	t	Hydroquinone	0.284	0.299	-5.3	109	0.00	5.70

Continuing Calibration Summary

Job Number: JD87833 **Sample:** ECJ297-CC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6511.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42	t	Hexachlorobutadiene	0.198	0.218	-10.1	112	0.00	5.56
43	t	4-Chloro-3-methylphenol	0.306	0.336	-9.8	111	0.00	5.81
44	t	2-Methylnaphthalene	0.568	0.612	-7.7	110	0.00	5.93
45	t	1-Methylnaphthalene	0.543	0.582	-7.2	111	0.00	5.99
46	I	Acenaphthene-d10	1.000	1.000	0.0	111	0.00	6.66
47	t	Hexachlorocyclopentadiene	0.382	0.443	-16.0	112	0.00	6.03
48		1,2,4,5-tetrachlorobenzen	0.578	0.628	-8.7	111	0.00	6.03
49	t	2,4,6-Trichlorophenol	0.351	0.397	-13.1	108	0.00	6.11
50	t	2,4,5-Trichlorophenol	0.386	0.436	-13.0	109	0.00	6.13
51	S	2-Fluorobiphenyl	1.259	1.363	-8.3	110	0.00	6.17
52	t	2-Chloronaphthalene	1.086	1.175	-8.2	111	0.00	6.26
53	t	Biphenyl	1.374	1.486	-8.2	112	0.00	6.24
54	t	2-Nitroaniline	0.367	0.412	-12.3	109	0.00	6.32
55	t	Dimethylphthalate	1.250	1.370	-9.6	110	0.00	6.45
56	t	Acenaphthylene	1.551	1.719	-10.8	111	0.00	6.56
57	t	2,6-Dinitrotoluene	0.262	0.306	-16.8	111	0.00	6.49
58	t	3-Nitroaniline	0.296	0.341	-15.2	109	0.00	6.62
59	t	Acenaphthene	1.103	1.204	-9.2	111	0.00	6.69
			True	Calc.	% Drift			
60	t	2,4-Dinitrophenol	100.000	105.308	-5.3	107	0.00	6.70
			AvgRF	CCRF	% Dev			
61	t	4-Nitrophenol	0.195	0.222	-13.8	106	0.00	6.72
62	t	Dibenzofuran	1.531	1.655	-8.1	110	0.00	6.81
63	t	2,4-Dinitrotoluene	0.363	0.426	-17.4	111	0.00	6.79
64		2,3,4,6-Tetrachlorophenol	0.297	0.349	-17.5	112	0.00	6.90
65	t	Diethylphthalate	1.275	1.396	-9.5	110	0.00	6.98
66	t	Fluorene	1.209	1.308	-8.2	110	0.00	7.08
67	t	4-Chlorophenyl-phenylethe	0.578	0.638	-10.4	111	0.00	7.08
68	t	4-Nitroaniline	0.301	0.347	-15.3	110	0.00	7.09
69	I	Phenanthrene-d10	1.000	1.000	0.0	109	0.00	7.87
70	t	4,6-Dinitro-2-methylpheno	0.101	0.120	-18.8	108	0.00	7.11
71	t	n-Nitrosodiphenylamine	0.546	0.613	-12.3	111	0.00	7.17
72	t	1,2-Diphenylhydrazine	0.766	0.844	-10.2	108	0.00	7.20
73		pentachloronitrobenzene	0.035	0.039#	-11.4	108	0.00	7.71
74	S	2,4,6-Tribromophenol	0.088	0.101	-14.8	107	0.00	7.27
75	t	4-Bromophenyl-phenylether	0.182	0.205	-12.6	111	0.00	7.48
76	t	Hexachlorobenzene	0.203	0.226	-11.3	111	0.00	7.53
77	t	Pentachlorophenol	0.124	0.149	-20.2#	109	0.00	7.70
78	t	Phenanthrene	0.967	1.047	-8.3	110	0.00	7.89
79	t	Anthracene	0.968	1.063	-9.8	109	0.00	7.94
80	t	Carbazole	0.902	0.988	-9.5	108	0.00	8.08
81	t	Di-n-butylphthalate	1.114	1.277	-14.6	109	0.00	8.40
82	t	Fluoranthene	1.047	1.166	-11.4	109	0.00	8.98
83	t	Octadecane	0.549	0.603	-9.8	106	0.00	7.77
84	I	Chrysene-d12	1.000	1.000	0.0	109	0.00	10.37
85		benzidine	0.717	0.834	-16.3	108	0.00	9.11
86	t	Pyrene	1.360	1.514	-11.3	108	0.00	9.20
87	S	Terphenyl-d14	0.988	1.115	-12.9	110	0.00	9.35
88	t	Butylbenzylphthalate	0.607	0.735	-21.1#	110	0.00	9.84
89	t	Benzo[a]anthracene	1.286	1.406	-9.3	108	0.00	10.35
90	t	3,3'-Dichlorobenzidine	0.445	0.527	-18.4	108	0.00	10.34
91	t	Chrysene	1.187	1.328	-11.9	110	0.00	10.39
92	t	bis(2-Ethylhexyl)phthalat	0.899	1.036	-15.2	106	0.00	10.41
93	I	Perylene-d12	1.000	1.000	0.0	108	0.00	11.71

Continuing Calibration Summary

Job Number: JD87833 **Sample:** ECJ297-CC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6511.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

94	t	Di-n-octylphthalate	1.468	1.729	-17.8	107	0.00	11.02
95	t	Benzo[b]fluoranthene	1.208	1.328	-9.9	100	0.00	11.36
96	t	Benzo[k]fluoranthene	1.087	1.274	-17.2	119	0.00	11.38
97	t	Benzo[a]pyrene	1.000	1.151	-15.1	108	0.00	11.66
98	t	Indeno[1,2,3-cd]pyrene	1.209	1.412	-16.8	109	0.00	12.90
99	t	Dibenz(a,h)acridine	0.804	0.958	-19.2	107	0.00	12.62
100	t	Dibenz[a,h]anthracene	0.966	1.114	-15.3	107	0.00	12.93
101	t	7,12-Dimethylbenz(a)anthr	0.481	0.558	-16.0	106	0.00	11.35
102	t	Benzo[g,h,i]perylene	0.940	1.072	-14.0	110	0.00	13.25

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cj6498A.D mCJ296.m Fri May 10 14:22:10 2024

Continuing Calibration Summary

Job Number: JD87833 **Sample:** ECJ297-CC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6512.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...\Mayo\ecj297\cj6512.D Vial: 3
Acq On : 09 May 2024 03:59 pm Operator: rocquans
Sample : cc296-50 Inst : GCMSCJ
Misc : op53120,ecj297,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...methods\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Thu May 09 12:05:48 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	117	0.00	4.66
104	Benzaldehyde	1.145	1.176	-2.7	116	0.00	4.38
105	Phenanthrene-d10a	1.000	1.000	0.0	113	0.00	7.87
106	Atrazine	0.091	0.099	-8.8	113	0.00	7.61
107 I	Naphthalene-d8a	1.000	1.000	0.0	116	0.00	5.47
108 T	Caprolactam	0.170	0.190	-11.8	112	0.00	5.72
109	Phenanthrene-d10b	1.000	1.000	0.0	113	0.00	7.87
110 s	1-chlorooctadecane	0.377	0.402	-6.6	110	0.00	8.88
111 s	o-terphenyl	0.503	0.532	-5.8	116	0.00	8.21
112 I	Chrysene-d12a	1.000	1.000	0.0	113	0.00	10.36

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cj6498A.D mCJ296.m Fri May 10 14:22:12 2024

Continuing Calibration Summary

Job Number: JD87833 **Sample:** ECJ298-CC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6546.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\danielas\ECJ298\cj6546.D Vial: 2
Acq On : 10 May 2024 09:29 am Operator: karimam
Sample : cc296-50 Inst : GCMSCJ
Misc : op53120,ecj298,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...METHODS\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Thu May 09 12:05:48 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	-0.01	4.65
2	t	1,4-Dioxane	0.543	0.547	-0.7	85	-0.01	2.44
3	t	Pyridine	1.406	1.493	-6.2	85	0.00	2.75
4	t	N-Nitrosodimethylamine	0.750	0.781	-4.1	87	0.00	2.73
5	S	2-Fluorophenol	1.150	1.277	-11.0	91	0.00	3.79
6	t	Indene	2.057	2.171	-5.5	91	-0.01	4.81
7	t	Cumene	2.649	2.823	-6.6	90	-0.01	4.14
8	S	Phenol-d5	1.483	1.601	-8.0	90	0.00	4.41
9	t	Phenol	1.598	1.869	-17.0	98	0.00	4.42
10		Aniline	1.966	2.166	-10.2	92	-0.01	4.44
11	t	bis(2-Chloroethyl)ether	1.287	1.357	-5.4	89	-0.01	4.48
12	t	2-Chlorophenol	1.205	1.318	-9.4	90	0.00	4.52
13	t	Decane	1.566	1.607	-2.6	87	-0.01	4.55
14	t	1,3-Dichlorobenzene	1.387	1.488	-7.3	91	-0.01	4.62
15	t	1,4-Dichlorobenzene	1.405	1.502	-6.9	91	-0.01	4.66
16	t	Benzyl alcohol	0.815	0.919	-12.8	94	-0.01	4.74
17	t	1,2-Dichlorobenzene	1.341	1.426	-6.3	92	-0.01	4.76
18	t	Acetophenone	1.839	1.960	-6.6	92	0.00	4.91
19	t	2-Methylphenol	1.109	1.196	-7.8	91	0.00	4.81
20	t	2,2'-oxybis(1-Chloropropa	0.363	0.394	-8.5	92	-0.01	4.82
21	t	3&4-Methylphenol	1.141	1.228	-7.6	92	0.00	4.90
22	t	n-Nitroso-di-n-propylamin	0.928	0.992	-6.9	92	-0.01	4.91
23	t	Hexachloroethane	0.531	0.597	-12.4	94	-0.02	4.97
24	I	Naphthalene-d8	1.000	1.000	0.0	94	-0.02	5.46
25	S	Nitrobenzene-d5	0.410	0.447	-9.0	91	-0.01	5.00
26	t	Nitrobenzene	0.420	0.455	-8.3	91	-0.01	5.02
27	t	Quinoline	0.618	0.684	-10.7	93	-0.01	5.69
28	t	Isophorone	0.720	0.783	-8.8	93	-0.01	5.17
29	t	2-Nitrophenol	0.165	0.199	-20.6#	95	-0.01	5.21
30	t	2,4-Dimethylphenol	0.366	0.399	-9.0	93	0.00	5.24
31	t	Benzoic acid	0.280	0.322	-15.0	95	0.00	5.31
32	t	bis(2-Chloroethoxy)methan	0.450	0.476	-5.8	90	-0.01	5.30
33	t	2,4-Dichlorophenol	0.283	0.319	-12.7	95	-0.01	5.36
34	t	2,6-Dichlorophenol	0.275	0.309	-12.4	96	0.00	5.51
35		1,3,5-Trichlorobenzene	0.337	0.363	-7.7	94	-0.01	5.22
36	t	1,2,4-Trichlorobenzene	0.321	0.349	-8.7	94	-0.01	5.42
37		1,2,3-Trichlorobenzene	0.314	0.341	-8.6	94	-0.02	5.56
38	t	Naphthalene	0.958	1.021	-6.6	94	-0.01	5.47
39	t	4-Chloroaniline	0.403	0.446	-10.7	94	-0.01	5.50
40	t	2,3-Dichloroaniline	0.329	0.363	-10.3	94	-0.02	6.10
41	t	Hydroquinone	0.284	0.319	-12.3	97	0.00	5.70

Continuing Calibration Summary

Job Number: JD87833 **Sample:** ECJ298-CC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6546.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42	t	Hexachlorobutadiene	0.198	0.214	-8.1	92	-0.02	5.54
43	t	4-Chloro-3-methylphenol	0.306	0.347	-13.4	95	0.00	5.80
44	t	2-Methylnaphthalene	0.568	0.628	-10.6	94	-0.01	5.92
45	t	1-Methylnaphthalene	0.543	0.588	-8.3	94	-0.01	5.98
46	I	Acenaphthene-d10	1.000	1.000	0.0	96	-0.02	6.64
47	t	Hexachlorocyclopentadiene	0.382	0.451	-18.1	98	-0.01	6.02
48		1,2,4,5-tetrachlorobenzen	0.578	0.628	-8.7	96	-0.01	6.02
49	t	2,4,6-Trichlorophenol	0.351	0.406	-15.7	96	-0.01	6.10
50	t	2,4,5-Trichlorophenol	0.386	0.437	-13.2	95	0.00	6.12
51	S	2-Fluorobiphenyl	1.259	1.345	-6.8	94	-0.01	6.16
52	t	2-Chloronaphthalene	1.086	1.165	-7.3	95	-0.01	6.25
53	t	Biphenyl	1.374	1.464	-6.6	95	-0.02	6.23
54	t	2-Nitroaniline	0.367	0.414	-12.8	95	-0.01	6.31
55	t	Dimethylphthalate	1.250	1.373	-9.8	95	-0.02	6.43
56	t	Acenaphthylene	1.551	1.693	-9.2	94	-0.02	6.54
57	t	2,6-Dinitrotoluene	0.262	0.314	-19.8	99	-0.01	6.48
58	t	3-Nitroaniline	0.296	0.343	-15.9	95	-0.01	6.61
59	t	Acenaphthene	1.103	1.194	-8.3	95	-0.02	6.67

			True	Calc.	% Drift			
60	t	2,4-Dinitrophenol	100.000	123.928	-23.9#	110	-0.01	6.69

			AvgRF	CCRF	% Dev			
61	t	4-Nitrophenol	0.195	0.228	-16.9	95	0.00	6.72
62	t	Dibenzofuran	1.531	1.664	-8.7	96	-0.02	6.80
63	t	2,4-Dinitrotoluene	0.363	0.424	-16.8	95	-0.01	6.78
64		2,3,4,6-Tetrachlorophenol	0.297	0.362	-21.9#	100	-0.01	6.89
65	t	Diethylphthalate	1.275	1.436	-12.6	97	-0.01	6.97
66	t	Fluorene	1.209	1.322	-9.3	96	-0.02	7.07
67	t	4-Chlorophenyl-phenylethe	0.578	0.645	-11.6	97	-0.02	7.06
68	t	4-Nitroaniline	0.301	0.351	-16.6	97	-0.01	7.08
69	I	Phenanthrene-d10	1.000	1.000	0.0	97	-0.02	7.86
70	t	4,6-Dinitro-2-methylpheno	0.101	0.137	-35.6#	109	-0.01	7.10
71	t	n-Nitrosodiphenylamine	0.546	0.605	-10.8	97	-0.02	7.16
72	t	1,2-Diphenylhydrazine	0.766	0.826	-7.8	94	-0.02	7.19
73		pentachloronitrobenzene	0.035	0.040#	-14.3	97	-0.02	7.70
74	S	2,4,6-Tribromophenol	0.088	0.107	-21.6#	101	-0.01	7.26
75	t	4-Bromophenyl-phenylether	0.182	0.208	-14.3	100	-0.02	7.47
76	t	Hexachlorobenzene	0.203	0.224	-10.3	98	-0.01	7.52
77	t	Pentachlorophenol	0.124	0.154	-24.2#	100	-0.01	7.69
78	t	Phenanthrene	0.967	1.045	-8.1	97	-0.02	7.88
79	t	Anthracene	0.968	1.054	-8.9	95	-0.02	7.92
80	t	Carbazole	0.902	0.995	-10.3	96	-0.02	8.06
81	t	Di-n-butylphthalate	1.114	1.312	-17.8	99	-0.02	8.38
82	t	Fluoranthene	1.047	1.163	-11.1	96	-0.02	8.96
83	t	Octadecane	0.549	0.599	-9.1	93	-0.02	7.76
84	I	Chrysene-d12	1.000	1.000	0.0	93	-0.02	10.35
85		benzidine	0.717	0.898	-25.2#	99	-0.02	9.10
86	t	Pyrene	1.360	1.559	-14.6	95	-0.02	9.18
87	S	Terphenyl-d14	0.988	1.130	-14.4	95	-0.02	9.33
88	t	Butylbenzylphthalate	0.607	0.772	-27.2#	99	-0.02	9.82
89	t	Benzo[a]anthracene	1.286	1.410	-9.6	92	-0.02	10.34
90	t	3,3'-Dichlorobenzidine	0.445	0.542	-21.8#	95	-0.02	10.32
91	t	Chrysene	1.187	1.283	-8.1	91	-0.02	10.38
92	t	bis(2-Ethylhexyl)phthalat	0.899	1.075	-19.6	94	-0.03	10.39
93	I	Perylene-d12	1.000	1.000	0.0	84	-0.03	11.69

Continuing Calibration Summary

Job Number: JD87833 **Sample:** ECJ298-CC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6546.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

94	t	Di-n-octylphthalate	1.468	1.943	-32.4#	93	-0.02	11.00
95	t	Benzo[b]fluoranthene	1.208	1.431	-18.5	84	-0.02	11.33
96	t	Benzo[k]fluoranthene	1.087	1.173	-7.9	85	-0.02	11.36
97	t	Benzo[a]pyrene	1.000	1.149	-14.9	84	-0.03	11.64
98	t	Indeno[1,2,3-cd]pyrene	1.209	1.385	-14.6	84	-0.03	12.87
99	t	Dibenz(a,h)acridine	0.804	0.956	-18.9	83	-0.03	12.59
100	t	Dibenz[a,h]anthracene	0.966	1.111	-15.0	83	-0.03	12.90
101	t	7,12-Dimethylbenz(a)anthr	0.481	0.576	-19.8	85	-0.02	11.33
102	t	Benzo[g,h,i]perylene	0.940	1.067	-13.5	85	-0.03	13.22

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cj6498A.D mCJ296.m Fri May 10 15:45:54 2024

6.8.8

6

Continuing Calibration Summary

Job Number: JD87833 **Sample:** ECJ298-CC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6547.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\danielas\ECJ298\cj6547.D Vial: 3
Acq On : 10 May 2024 09:48 am Operator: karimam
Sample : cc296-50 Inst : GCMSCJ
Misc : op53120,ecj298,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...METHODS\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Thu May 09 12:05:48 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	94	-0.01	4.65
104	Benzaldehyde	1.145	1.192	-4.1	95	-0.01	4.37
105	Phenanthrene-d10a	1.000	1.000	0.0	101	-0.02	7.85
106	Atrazine	0.091	0.102	-12.1	104	-0.01	7.60
107 I	Naphthalene-d8a	1.000	1.000	0.0	98	-0.01	5.46
108 T	Caprolactam	0.170	0.196	-15.3	98	0.00	5.71
109	Phenanthrene-d10b	1.000	1.000	0.0	101	-0.02	7.85
110 s	1-chlorooctadecane	0.377	0.411	-9.0	100	-0.02	8.86
111 s	o-terphenyl	0.503	0.543	-8.0	105	-0.02	8.19

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cj6498A.D mCJ296.m Fri May 10 15:45:59 2024

Continuing Calibration Summary

Job Number: JD87833 **Sample:** ECJ298-CC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6549.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\danielas\ECJ298\cj6549.D Vial: 5
Acq On : 10 May 2024 10:27 am Operator: karimam
Sample : cc296-5 Inst : GCMSCJ
Misc : op53120,ecj298,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...METHODS\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Fri May 10 16:21:25 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
112 I	Chrysene-d12a	1.000	1.000	0.0	100	-0.02	10.34
113	2,3,7,8-TCDD	0.162	0.162	0.0	100	0.00	9.95

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cj6501A.D mCJ296.m Fri May 10 16:27:58 2024

Continuing Calibration Summary

Job Number: JD87833 **Sample:** ECJ302-CC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6675.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\nerirose\ecj302\cj6675.D Vial: 2
Acq On : 13 May 2024 08:25 am Operator: kaleigh
Sample : cc296-50 Inst : GCMSCJ
Misc : op53120,ecj302,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...methods\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Mon May 13 14:35:16 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	68	0.00	4.60
2	t	1,4-Dioxane	0.543	0.488	10.1	56	0.00	2.37
3	t	Pyridine	1.406	1.332	5.3	56	0.00	2.69
4	t	N-Nitrosodimethylamine	0.750	0.690	8.0	57	0.00	2.67
5	S	2-Fluorophenol	1.150	1.225	-6.5	65	0.00	3.75
6	t	Indene	2.057	2.132	-3.6	66	0.00	4.77
7	t	Cumene	2.649	2.796	-5.5	66	0.00	4.09
8	S	Phenol-d5	1.483	1.546	-4.2	64	0.00	4.38
9	t	Phenol	1.598	1.775	-11.1	69	0.00	4.39
10		Aniline	1.966	1.994	-1.4	63	0.00	4.39
11	t	bis(2-Chloroethyl)ether	1.287	1.301	-1.1	63	0.00	4.44
12	t	2-Chlorophenol	1.205	1.295	-7.5	66	0.00	4.47
13	t	Decane	1.566	1.513	3.4	61	0.00	4.49
14	t	1,3-Dichlorobenzene	1.387	1.498	-8.0	68	0.00	4.56
15	t	1,4-Dichlorobenzene	1.405	1.500	-6.8	67	0.00	4.61
16	t	Benzyl alcohol	0.815	0.866	-6.3	65	0.00	4.69
17	t	1,2-Dichlorobenzene	1.341	1.413	-5.4	67	0.00	4.71
18	t	Acetophenone	1.839	1.921	-4.5	67	0.00	4.86
19	t	2-Methylphenol	1.109	1.150	-3.7	65	0.00	4.77
20	t	2,2'-oxybis(1-Chloropropa	0.363	0.379	-4.4	66	0.00	4.77
21	t	3&4-Methylphenol	1.141	1.194	-4.6	66	0.00	4.86
22	t	n-Nitroso-di-n-propylamin	0.928	0.922	0.6	63	0.00	4.86
23	t	Hexachloroethane	0.531	0.617	-16.2	72	0.00	4.92
24	I	Naphthalene-d8	1.000	1.000	0.0	69	0.00	5.41
25	S	Nitrobenzene-d5	0.410	0.434	-5.9	64	0.00	4.95
26	t	Nitrobenzene	0.420	0.442	-5.2	64	0.00	4.97
27	t	Quinoline	0.618	0.668	-8.1	66	0.00	5.64
28	t	Isophorone	0.720	0.752	-4.4	65	0.00	5.12
29	t	2-Nitrophenol	0.165	0.200	-21.2#	70	0.00	5.17
30	t	2,4-Dimethylphenol	0.366	0.396	-8.2	67	0.00	5.19
31	t	Benzoic acid	0.280	0.269	3.9	58	0.00	5.27
32	t	bis(2-Chloroethoxy)methan	0.450	0.464	-3.1	64	0.00	5.25
33	t	2,4-Dichlorophenol	0.283	0.321	-13.4	70	0.00	5.32
34	t	2,6-Dichlorophenol	0.275	0.310	-12.7	71	0.00	5.46
35		1,3,5-Trichlorobenzene	0.337	0.377	-11.9	71	0.00	5.17
36	t	1,2,4-Trichlorobenzene	0.321	0.362	-12.8	71	0.00	5.37
37		1,2,3-Trichlorobenzene	0.314	0.347	-10.5	70	0.00	5.51
38	t	Naphthalene	0.958	1.009	-5.3	68	0.00	5.42
39	t	4-Chloroaniline	0.403	0.429	-6.5	66	0.00	5.45
40	t	2,3-Dichloroaniline	0.329	0.366	-11.2	69	0.00	6.05
41	t	Hydroquinone	0.284	0.298	-4.9	66	0.00	5.66

Continuing Calibration Summary

Job Number: JD87833 **Sample:** ECJ302-CC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6675.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42	t	Hexachlorobutadiene	0.198	0.230	-16.2	72	0.00	5.49
43	t	4-Chloro-3-methylphenol	0.306	0.336	-9.8	67	0.00	5.76
44	t	2-Methylnaphthalene	0.568	0.622	-9.5	68	0.00	5.86
45	t	1-Methylnaphthalene	0.543	0.601	-10.7	70	0.00	5.93
46	I	Acenaphthene-d10	1.000	1.000	0.0	70	0.00	6.59
47	t	Hexachlorocyclopentadiene	0.382	0.372	2.6	59	0.00	5.96
48		1,2,4,5-tetrachlorobenzen	0.578	0.650	-12.5	73	0.00	5.97
49	t	2,4,6-Trichlorophenol	0.351	0.420	-19.7	72	0.00	6.05
50	t	2,4,5-Trichlorophenol	0.386	0.446	-15.5	70	0.00	6.07
51	S	2-Fluorobiphenyl	1.259	1.397	-11.0	71	0.00	6.10
52	t	2-Chloronaphthalene	1.086	1.173	-8.0	70	0.00	6.19
53	t	Biphenyl	1.374	1.491	-8.5	71	0.00	6.17
54	t	2-Nitroaniline	0.367	0.402	-9.5	67	0.00	6.26
55	t	Dimethylphthalate	1.250	1.391	-11.3	70	0.00	6.38
56	t	Acenaphthylene	1.551	1.722	-11.0	70	0.00	6.48
57	t	2,6-Dinitrotoluene	0.262	0.309	-17.9	71	0.00	6.43
58	t	3-Nitroaniline	0.296	0.339	-14.5	68	0.00	6.55
59	t	Acenaphthene	1.103	1.205	-9.2	70	0.00	6.61

			True	Calc.	% Drift			
60	t	2,4-Dinitrophenol	100.000	111.926	-11.9	72	0.00	6.63

			AvgRF	CCRF	% Dev			
61	t	4-Nitrophenol	0.195	0.226	-15.9	68	0.00	6.68
62	t	Dibenzofuran	1.531	1.675	-9.4	70	0.00	6.74
63	t	2,4-Dinitrotoluene	0.363	0.439	-20.9#	72	0.00	6.72
64		2,3,4,6-Tetrachlorophenol	0.297	0.366	-23.2#	74	0.00	6.83
65	t	Diethylphthalate	1.275	1.454	-14.0	72	0.00	6.91
66	t	Fluorene	1.209	1.344	-11.2	71	0.00	7.01
67	t	4-Chlorophenyl-phenylethe	0.578	0.673	-16.4	74	0.00	7.00
68	t	4-Nitroaniline	0.301	0.348	-15.6	70	0.00	7.02
69	I	Phenanthrene-d10	1.000	1.000	0.0	72	0.00	7.79
70	t	4,6-Dinitro-2-methylpheno	0.101	0.131	-29.7#	78	0.00	7.05
71	t	n-Nitrosodiphenylamine	0.546	0.603	-10.4	71	0.00	7.10
72	t	1,2-Diphenylhydrazine	0.766	0.786	-2.6	66	0.00	7.13
73		pentachloronitrobenzene	0.035	0.041#	-17.1	76	0.00	7.63
74	S	2,4,6-Tribromophenol	0.088	0.112	-27.3#	78	0.00	7.20
75	t	4-Bromophenyl-phenylether	0.182	0.212	-16.5	76	0.00	7.40
76	t	Hexachlorobenzene	0.203	0.240	-18.2	78	0.00	7.46
77	t	Pentachlorophenol	0.124	0.139	-12.1	67	0.00	7.63
78	t	Phenanthrene	0.967	1.041	-7.7	72	0.00	7.82
79	t	Anthracene	0.968	1.060	-9.5	71	0.00	7.86
80	t	Carbazole	0.902	0.982	-8.9	70	0.00	8.00
81	t	Di-n-butylphthalate	1.114	1.293	-16.1	72	0.00	8.32
82	t	Fluoranthene	1.047	1.180	-12.7	72	0.00	8.90
83	t	Octadecane	0.549	0.558	-1.6	64	0.00	7.69
84	I	Chrysene-d12	1.000	1.000	0.0	67	0.00	10.28
85		benzidine	0.717	0.881	-22.9#	71	0.00	9.03
86	t	Pyrene	1.360	1.614	-18.7	72	0.00	9.12
87	S	Terphenyl-d14	0.988	1.180	-19.4	72	0.00	9.27
88	t	Butylbenzylphthalate	0.607	0.775	-27.7#	72	0.00	9.75
89	t	Benzo[a]anthracene	1.286	1.423	-10.7	68	0.00	10.27
90	t	3,3'-Dichlorobenzidine	0.445	0.551	-23.8#	70	0.00	10.25
91	t	Chrysene	1.187	1.320	-11.2	68	0.00	10.31
92	t	bis(2-Ethylhexyl)phthalat	0.899	1.049	-16.7	67	0.00	10.32
93	I	Perylene-d12	1.000	1.000	0.0	61	0.00	11.61

Continuing Calibration Summary

Job Number: JD87833 **Sample:** ECJ302-CC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6675.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

94	t	Di-n-octylphthalate	1.468	1.869	-27.3#	65	0.00	10.93
95	t	Benzo[b]fluoranthene	1.208	1.374	-13.7	58	0.00	11.27
96	t	Benzo[k]fluoranthene	1.087	1.195	-9.9	63	0.00	11.29
97	t	Benzo[a]pyrene	1.000	1.140	-14.0	60	0.00	11.56
98	t	Indeno[1,2,3-cd]pyrene	1.209	1.367	-13.1	60	0.00	12.77
99	t	Dibenz(a,h)acridine	0.804	0.934	-16.2	59	0.00	12.49
100	t	Dibenz[a,h]anthracene	0.966	1.098	-13.7	60	0.00	12.79
101	t	7,12-Dimethylbenz(a)anthr	0.481	0.571	-18.7	61	0.00	11.26
102	t	Benzo[g,h,i]perylene	0.940	1.039	-10.5	60	0.00	13.10

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cj6675.D mCJ296.m Mon May 13 14:35:37 2024

Continuing Calibration Summary

Job Number: JD87833 **Sample:** ECJ302-CC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6676.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\nerirose\ecj302\cj6676.D Vial: 3
Acq On : 13 May 2024 08:48 am Operator: kaleigh
Sample : cc296-50 Inst : GCMSCJ
Misc : op53120,ecj302,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...methods\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Mon May 13 14:35:16 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	72	0.00	4.60
104	Benzaldehyde	1.145	1.154	-0.8	70	0.02	4.32
105	Phenanthrene-d10a	1.000	1.000	0.0	75	0.00	7.79
106	Atrazine	0.091	0.104	-14.3	79	0.00	7.54
107 I	Naphthalene-d8a	1.000	1.000	0.0	74	0.00	5.41
108 T	Caprolactam	0.170	0.177	-4.1	67	0.00	5.67
109	Phenanthrene-d10b	1.000	1.000	0.0	75	0.00	7.79
110 s	1-chlorooctadecane	0.377	0.374	0.8	68	0.00	8.80
111 s	o-terphenyl	0.503	0.553	-9.9	80	0.00	8.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cj6675.D mCJ296.m Mon May 13 14:35:40 2024

Initial Calibration Summary

Job Number: JD87833 **Sample:** EM8478-ICC8478
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** M195471.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Response Factor Report MSM

Method : C:\MSDCHEM\1\METHODS\MM8478.M (RTE Integrator)
Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
Last Update : Fri May 10 12:22:01 2024
Response via : Initial Calibration

Calibration Files
2 =m195473.D 5 =m195474.D 100 =m195478.D 50 =m195472.D
1 =m195472.D 10 =m195475.D 80 =m195477.D 25 =m195476.D

Compound	2	5	100	50	1	10	80	25	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD									
2) 1,4-Dioxane	0.603	0.485	0.527	0.558	0.722	0.567	0.466	0.554	0.560	14.12
3) Pyridine	1.131	1.436	1.533	1.517	1.363	1.243	1.352	1.465	1.380	10.04
4) N-Nitrosodim	0.718	0.725	0.815	0.800	0.729	0.713	0.732	0.805	0.755	5.82
5) 2-Fluorophen	1.002	1.068	1.203	1.217	0.738	1.087	1.056	1.152	1.065	14.24
6) Indene	2.177	2.242	2.378	2.451	1.891	2.210	2.118	2.347	2.227	7.87
7) Cumene	2.379	2.623	2.876	2.945	2.810	2.707	2.587	3.011	2.742	7.64
8) Phenol-d5	1.386	1.375	1.670	1.712	1.652	1.528	1.506	1.623	1.557	8.26
9) Phenol	1.386	1.509	1.774	1.824	1.561	1.604	1.619	1.751	1.628	9.07
10) Aniline	1.679	2.034	2.126	2.230	1.694	1.940	1.924	2.186	1.977	10.58
11) bis(2-Chloro	1.065	1.175	1.264	1.227	1.227	1.182	1.147	1.261	1.194	5.56
12) 2-Chlorophen	1.245	1.206	1.354	1.415	1.321	1.229	1.230	1.350	1.294	5.88
13) Decane	1.408	1.517	1.533	1.620	1.506	1.499	1.379	1.636	1.512	5.93
14) 1,3-Dichloro	1.270	1.350	1.495	1.501	1.494	1.389	1.292	1.496	1.411	6.96
15) 1,4-Dichloro	1.394	1.434	1.502	1.542	1.385	1.385	1.363	1.516	1.440	4.86
16) Benzyl alcoh	0.538	0.738	0.942	0.944	0.844	0.781	0.832	0.911	0.816	16.47
17) 1,2-Dichloro	1.194	1.429	1.474	1.469	1.275	1.385	1.305	1.531	1.383	8.34
18) Acetophenone	1.907	2.163	2.323	2.345	2.109	2.143	2.102	2.338	2.179	6.93
19) 2-Methylphen	1.333	1.306	1.383	1.444	1.253	1.380	1.255	1.388	1.343	5.07
20) 2,2'-oxybis(	0.330	0.381	0.381	0.371	0.283	0.332	0.348	0.396	0.353	10.49
21) 3&4-Methylph	1.226	1.343	1.506	1.504	1.362	1.348	1.349	1.498	1.392	7.25
22) n-Nitroso-di	1.158	1.102	1.200	1.200	1.064	1.101	1.069	1.197	1.136	5.20
23) Hexachloroet	0.499	0.495	0.541	0.530	0.489	0.469	0.480	0.541	0.506	5.57
24) I Naphthalene-d8	ISTD									
25) Nitrobenzene	0.352	0.398	0.448	0.413	0.384	0.399	0.406	0.437	0.404	7.41
26) Nitrobenzene	0.388	0.390	0.408	0.423	0.434	0.366	0.372	0.413	0.399	6.05
27) Quinoline	0.628	0.646	0.720	0.723	0.627	0.638	0.670	0.706	0.670	6.17
28) Isophorone	0.647	0.692	0.763	0.782	0.741	0.665	0.711	0.742	0.718	6.62
29) 2-Nitropheno	0.102	0.135	0.177	0.163	0.152	0.140	0.158	0.166	0.149	15.75
30) 2,4-Dimethyl	0.359	0.360	0.402	0.410	0.398	0.351	0.365	0.394	0.380	6.09
31) Benzoic acid		0.136	0.307	0.279		0.188	0.280	0.251	0.240	27.09
---- Quadratic regression ---- Coefficient = 0.9990										
Response Ratio = -0.01683 + 0.26216 *A + 0.01847 *A^2										
32) bis(2-Chloro	0.404	0.398	0.416	0.422	0.445	0.382	0.391	0.397	0.407	4.92
33) 2,4-Dichloro	0.263	0.248	0.291	0.287	0.346	0.237	0.254	0.272	0.275	12.45
34) 2,6-Dichloro	0.202	0.262	0.281	0.279	0.223	0.260	0.257	0.273	0.255	10.99
35) 1,3,5-Trichl	0.287	0.317	0.318	0.328	0.353	0.293	0.295	0.326	0.315	6.99
36) 1,2,4-Trichl	0.262	0.316	0.304	0.317	0.267	0.272	0.292	0.309	0.292	7.66
37) 1,2,3-Trichl	0.311	0.300	0.315	0.319	0.332	0.280	0.292	0.314	0.308	5.34
38) Naphthalene	0.884	0.955	1.037	1.041	0.946	0.929	0.956	1.018	0.971	5.76
39) 4-Chloroanil	0.367	0.385	0.428	0.435	0.440	0.366	0.399	0.427	0.406	7.51
40) 2,3-Dichloro	0.274	0.313	0.357	0.355	0.425	0.317	0.321	0.340	0.338	13.12
41) Hydroquinone	0.261	0.307	0.295	0.329	0.305	0.285	0.289	0.344	0.302	8.51
42) Hexachlorobu	0.168	0.177	0.185	0.186	0.187	0.167	0.168	0.184	0.178	4.95

Initial Calibration Summary

Job Number: JD87833 **Sample:** EM8478-ICC8478
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** M195471.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

43) 4-Chloro-3-m	0.303	0.315	0.366	0.364	0.332	0.323	0.329	0.356	0.336	6.98
44) 2-Methylnaph	0.510	0.592	0.640	0.624	0.616	0.555	0.595	0.599	0.591	7.02
45) 1-Methylnaph	0.574	0.639	0.669	0.653	0.646	0.598	0.606	0.653	0.630	5.25
46) I Acenaphthene-d10	----------ISTD----------									
47) Hexachlorocy	0.279	0.286	0.319	0.365	0.267	0.298	0.324	0.351	0.311	11.15
48) 1,2,4,5-Tetr	0.475	0.554	0.542	0.585	0.594	0.521	0.510	0.539	0.540	7.23
49) 2,4,6-Trichl	0.298	0.350	0.358	0.391	0.344	0.340	0.336	0.367	0.348	7.65
50) 2,4,5-Trichl	0.382	0.379	0.410	0.441	0.337	0.363	0.386	0.406	0.388	8.11
51) 2-Fluorobiph	1.082	1.220	1.253	1.397	1.412	1.207	1.212	1.340	1.265	8.79
52) 2-Chloronaph	0.963	1.024	1.084	1.182	1.035	1.073	1.038	1.127	1.066	6.32
53) Biphenyl	1.268	1.369	1.424	1.556	1.545	1.355	1.380	1.512	1.426	7.20
54) 2-Nitroanili	0.273	0.351	0.413	0.439	0.404	0.373	0.397	0.429	0.385	13.86
55) Dimethylphth	1.141	1.336	1.329	1.460	1.480	1.237	1.298	1.369	1.331	8.34
56) Acenaphthyle	1.353	1.537	1.693	1.824	1.590	1.591	1.602	1.722	1.614	8.69
57) 2,6-Dinitrot	0.182	0.227	0.270	0.284	0.204	0.211	0.254	0.269	0.238	15.49
58) 3-Nitroanili	0.221	0.260	0.333	0.347	0.308	0.287	0.311	0.325	0.299	13.93
59) Acenaphthene	1.094	1.121	1.179	1.278	1.317	1.133	1.140	1.231	1.186	6.77
60) 2,4-Dinitrop	0.055	0.085	0.189	0.174		0.100	0.173	0.146	0.132	39.36
---- Quadratic regression ---- Coefficient = 0.9976										
Response Ratio = -0.01179 + 0.14252 *A + 0.00966 *A^2										
61) 4-Nitropheno		0.204	0.255	0.267		0.224	0.235	0.254	0.240	9.67
62) Dibenzofuran	1.391	1.553	1.638	1.725	1.919	1.555	1.546	1.660	1.623	9.56
63) 2,4-Dinitrot	0.228	0.271	0.404	0.411	0.324	0.352	0.379	0.401	0.346	19.49
64) 2,3,4,6-Tetr	0.241	0.263	0.352	0.358	0.301	0.304	0.321	0.338	0.310	13.43
65) Diethylphtha	1.256	1.347	1.456	1.560	1.578	1.353	1.399	1.455	1.425	7.69
66) Fluorene	1.113	1.225	1.328	1.454	1.447	1.211	1.270	1.369	1.302	9.18
67) 4-Chlorophen	0.646	0.567	0.623	0.679	0.582	0.603	0.600	0.635	0.617	5.91
68) 4-Nitroanili	0.274	0.270	0.336	0.379	0.261	0.323	0.326	0.359	0.316	13.81
69) I Phenanthrene-d10	----------ISTD----------									
70) 4,6-Dinitro-		0.068	0.108	0.107		0.076	0.106	0.097	0.093	18.82
71) n-Nitrosodip	0.473	0.529	0.514	0.560	0.560	0.493	0.500	0.544	0.522	6.17
72) Pentachloron	0.025	0.026	0.033	0.036	0.036	0.030	0.031	0.035	0.032#	13.33
73) 1,2-Diphenyl	0.602	0.717	0.707	0.777	0.753	0.686	0.687	0.755	0.710	7.77
74) 2,4,6-Tribro	0.062	0.091	0.089	0.099	0.069	0.082	0.088	0.096	0.084	15.22
75) 4-Bromopheny	0.151	0.171	0.168	0.184	0.213	0.161	0.167	0.178	0.174	10.71
76) Hexachlorobe	0.167	0.206	0.194	0.208	0.219	0.183	0.188	0.210	0.197	8.69
77) Pentachlorop	0.073	0.098	0.129	0.135		0.100	0.124	0.124	0.112	19.94
---- Quadratic regression ---- Coefficient = 0.9980										
Response Ratio = -0.00718 + 0.13001 *A + -0.00000 *A^2										
78) Phenanthrene	0.906	1.026	0.999	1.110	1.223	0.946	0.973	1.038	1.028	9.75
79) Anthracene	0.895	0.987	1.027	1.111	1.068	0.944	1.007	1.072	1.014	7.05
80) Carbazole	0.834	0.857	0.920	1.013	0.971	0.847	0.888	0.960	0.911	7.19
81) Di-n-butylph	0.991	1.080	1.196	1.298	1.145	1.065	1.165	1.213	1.144	8.45
82) Fluoranthene	1.028	1.041	1.148	1.244	1.180	1.039	1.081	1.181	1.118	7.25
83) Octadecane	0.430	0.468	0.484	0.541	0.556	0.459	0.480	0.530	0.494	8.97
84) I Chrysene-d12	----------ISTD----------									
85) Benzidine		0.389	0.591	0.689		0.545	0.626	0.717	0.593	19.91
---- Quadratic regression ---- Coefficient = 0.9995										
Response Ratio = -0.06095 + 0.85875 *A + -0.09835 *A^2										
86) Pyrene	1.021	1.168	1.251	1.387	1.406	1.190	1.228	1.318	1.246	10.10
87) Terphenyl-d1	0.759	0.820	0.908	1.010	0.939	0.836	0.878	0.951	0.888	9.13
88) Butylbenzylp	0.440	0.467	0.575	0.633	0.472	0.500	0.568	0.594	0.531	13.20
89) Benzo[a]anth	1.160	1.240	1.257	1.337	1.555	1.193	1.193	1.326	1.283	9.89
90) 3,3'-Dichlor	0.391	0.395	0.455	0.491	0.449	0.401	0.432	0.476	0.436	8.70

Initial Calibration Summary

Job Number: JD87833 **Sample:** EM8478-ICC8478
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** M195471.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

91)	Chrysene	1.180	1.213	1.173	1.307	1.329	1.116	1.145	1.262	1.216	6.33
92)	bis(2-Ethylh	0.653	0.776	0.861	0.967	0.841	0.795	0.849	0.912	0.832	11.36
93)	I Perylene-d12	----------ISTD----------									
94)	Di-n-octylph	1.072	1.184	1.285	1.512	1.294	1.189	1.307	1.395	1.280	10.61
95)	Benzo[b]fluo	0.926	1.076	1.134	1.221	1.293	1.058	1.139	1.181	1.129	9.89
96)	Benzo[k]fluo	1.017	1.062	1.013	1.228	1.175	1.054	1.025	1.191	1.095	8.01
97)	Benzo[a]pyre	0.824	0.965	0.992	1.126	1.103	0.945	0.989	1.039	0.998	9.53
98)	Indeno[1,2,3	1.125	1.279	1.302	1.458	1.551	1.233	1.312	1.392	1.331	10.00
99)	Dibenz(a,h)a	0.788	0.886	0.877	0.970	0.908	0.821	0.896	0.916	0.883	6.40
100)	Dibenz[a,h]a	0.990	1.043	1.063	1.182	1.150	1.015	1.074	1.121	1.080	6.16
101)	7,12-Dimethy	0.369	0.416	0.432	0.499	0.483	0.425	0.436	0.474	0.442	9.53
102)	Benzo[g,h,i]	0.859	0.999	0.994	1.139	1.111	0.947	1.022	1.064	1.017	8.84
103)	I 1,4-Dichlorobenzene-d	----------ISTD----------									
104)	Benzaldehyde	1.170	1.283	1.210	1.193	1.405	1.212	1.237	1.105	1.227	7.19
105)	I Acenaphthene-d10a	----------ISTD----------									
106)	Atrazine	0.138	0.172	0.190	0.190	0.220	0.184	0.188	0.167	0.181	12.91
107)	I Chrysene-d12a	----------ISTD----------									
108)	1-chloroocta	0.342	0.400	0.427	0.416	0.433	0.421	0.427	0.375	0.405	7.81
109)	Phenanthrene-d10a	----------ISTD----------									
110)	o-terphenyl	0.509	0.522	0.529	0.546	0.759	0.537	0.548	0.499	0.556	15.07
111)	I Naphthalene-d8a	----------ISTD----------									
112)	Caprolactam	0.168	0.172	0.190	0.199	0.275	0.181	0.198	0.171	0.194	17.98

(#) = Out of Range ### Number of calibration levels exceeded format ###

MM8478.M Fri May 10 12:25:19 2024

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EM8478-ICV8478
Lab FileID: M195487.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\EM8478\m195487.D Vial: 18
Acq On : 9 May 2024 10:33 pm Operator: karimam
Sample : icv8478-50 Inst : MSM
Misc : op51889,em8478,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MM8478.M (RTE Integrator)
Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
Last Update : Fri May 10 11:24:07 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00	3.70
2	t	1,4-Dioxane	0.560	0.530	5.4	86	0.00	2.33
6	t	Indene	2.227	2.280	-2.4	84	0.00	3.84
7	t	Cumene	2.742	2.833	-3.3	87	0.00	3.28
11	t	bis(2-Chloroethyl)ether	1.194	1.198	-0.3	88	0.00	3.54
13	t	Decane	1.512	1.543	-2.1	86	0.00	3.58
14	t	1,3-Dichlorobenzene	1.411	1.463	-3.7	88	0.00	3.67
15	t	1,4-Dichlorobenzene	1.440	1.462	-1.5	86	0.00	3.71
16	t	Benzyl alcohol	0.816	0.895	-9.7	86	0.00	3.76
17	t	1,2-Dichlorobenzene	1.383	1.413	-2.2	87	0.00	3.80
18	t	Acetophenone	2.179	2.139	1.8	82	0.00	3.92
20	t	2,2'-oxybis(1-Chloropropa	0.353	0.369	-4.5	90	0.00	3.83
23	t	Hexachloroethane	0.506	0.523	-3.4	89	0.00	3.99
24	I	Naphthalene-d8	1.000	1.000	0.0	92	0.00	4.44
26	t	Nitrobenzene	0.399	0.382	4.3	83	0.00	4.02
27	t	Quinoline	0.670	0.635	5.2	81	-0.01	4.67
28	t	Isophorone	0.718	0.704	1.9	83	0.00	4.15
		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.407	0.387	4.9	84	0.00	4.27
35	t	1,3,5-Trichlorobenzene	0.315	0.311	1.3	87	0.00	4.21
36	t	1,2,4-Trichlorobenzene	0.292	0.300	-2.7	87	0.00	4.40
37	t	1,2,3-Trichlorobenzene	0.308	0.308	0.0	89	0.00	4.54
38	t	Naphthalene	0.971	0.998	-2.8	88	0.00	4.45
40	t	2,3-Dichloroaniline	0.338	0.323	4.4	84	0.00	5.09
42	t	Hexachlorobutadiene	0.178	0.186	-4.5	92	0.00	4.52
44	t	2-Methylnaphthalene	0.591	0.593	-0.3	88	0.00	4.90
45	t	1-Methylnaphthalene	0.630	0.612	2.9	86	0.00	4.97
46	I	Acenaphthene-d10	1.000	1.000	0.0	96	0.00	5.67
47	t	Hexachlorocyclopentadiene	0.311	0.360	-15.8	95	0.00	5.00
48		1,2,4,5-Tetrachlorobenzen	0.540	0.525	2.8	86	0.00	5.01
52	t	2-Chloronaphthalene	1.066	1.061	0.5	86	0.00	5.24
53	t	Biphenyl	1.426	1.406	1.4	87	0.00	5.22
55	t	Dimethylphthalate	1.331	1.298	2.5	85	0.00	5.45
56	t	Acenaphthylene	1.614	1.706	-5.7	90	0.00	5.56

Initial Calibration Verification

Job Number: JD87833 **Sample:** EM8478-ICV8478
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** M195487.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

57	t	2,6-Dinitrotoluene	0.238	0.247	-3.8	83	0.00	5.50
59	t	Acenaphthene	1.186	1.178	0.7	88	0.00	5.70
62	t	Dibenzofuran	1.623	1.593	1.8	88	0.00	5.84
63	t	2,4-Dinitrotoluene	0.346	0.363	-4.9	85	0.00	5.82
65	t	Diethylphthalate	1.425	1.403	1.5	86	0.00	6.02
66	t	Fluorene	1.302	1.293	0.7	85	0.00	6.14
67	t	4-Chlorophenyl-phenylethe	0.617	0.611	1.0	86	0.00	6.13
69	I	Phenanthrene-d10	1.000	1.000	0.0	94	0.00	7.03
72		Pentachloronitrobenzene	0.032	0.033#	-3.1	86	0.00	6.85
73	t	1,2-Diphenylhydrazine	0.710	0.716	-0.8	86	0.00	6.27
75	t	4-Bromophenyl-phenylether	0.174	0.170	2.3	87	0.00	6.58
76	t	Hexachlorobenzene	0.197	0.198	-0.5	89	0.00	6.64

			AvgRF	CCRF	% Dev			
78	t	Phenanthrene	1.028	1.012	1.6	85	0.00	7.05
79	t	Anthracene	1.014	1.025	-1.1	86	0.00	7.11
80	t	Carbazole	0.911	0.906	0.5	84	0.00	7.28
81	t	Di-n-butylphthalate	1.144	1.171	-2.4	84	0.00	7.66
82	t	Fluoranthene	1.118	1.138	-1.8	86	0.00	8.35
83	t	Octadecane	0.494	0.490	0.8	85	0.00	6.91
84	I	Chrysene-d12	1.000	1.000	0.0	97	0.00	10.03

			AvgRF	CCRF	% Dev			
86	t	Pyrene	1.246	1.211	2.8	85	0.00	8.60
88	t	Butylbenzylphthalate	0.531	0.563	-6.0	87	0.00	9.39
89	t	Benzo[a]anthracene	1.283	1.193	7.0	87	0.00	10.01
91	t	Chrysene	1.216	1.183	2.7	88	0.00	10.06
92	t	bis(2-Ethylhexyl)phthalat	0.832	0.835	-0.4	84	0.00	10.09
93	I	Perylene-d12	1.000	1.000	0.0	97	0.00	11.63
94	t	Di-n-octylphthalate	1.280	1.355	-5.9	87	0.00	10.84
95	t	Benzo[b]fluoranthene	1.129	1.134	-0.4	90	0.00	11.23
96	t	Benzo[k]fluoranthene	1.095	1.130	-3.2	89	0.00	11.26
97	t	Benzo[a]pyrene	0.998	1.022	-2.4	88	0.00	11.57
98	t	Indeno[1,2,3-cd]pyrene	1.331	1.367	-2.7	91	0.00	12.91
99	t	Dibenz(a,h)acridine	0.883	0.913	-3.4	91	0.00	12.61
100	t	Dibenz[a,h]anthracene	1.080	1.106	-2.4	91	0.00	12.94
101	t	7,12-Dimethylbenz(a)anthr	0.442	0.411	7.0	80	0.00	11.22
102	t	Benzo[g,h,i]perylene	1.017	1.054	-3.6	90	0.00	13.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
m195471.D MM8478.M Fri May 10 11:28:45 2024

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EM8478-ICV8478
Lab FileID: M195488.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\EM8478\m195488.D Vial: 19
Acq On : 9 May 2024 10:54 pm Operator: karimam
Sample : icv8478-50 Inst : MSM
Misc : op51889,em8478,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MM8478.M (RTE Integrator)
Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
Last Update : Fri May 10 11:24:07 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	3.70
9	t	Phenol	1.628	1.566	3.8	88	0.00	3.48
12	t	2-Chlorophenol	1.294	1.238	4.3	89	0.00	3.58
19	t	2-Methylphenol	1.343	1.208	10.1	86	0.00	3.81
21	t	3&4-Methylphenol	1.392	1.308	6.0	89	0.00	3.90
24	I	Naphthalene-d8	1.000	1.000	0.0	104	0.00	4.44
29	t	2-Nitrophenol	0.149	0.151	-1.3	96	0.00	4.21
30	t	2,4-Dimethylphenol	0.380	0.367	3.4	93	0.00	4.21
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	50.000	47.295	5.4	95	-0.01	4.28
		----------	AvgRF	CCRF	% Dev	----------		
33	t	2,4-Dichlorophenol	0.275	0.246	10.5	89	0.00	4.35
34	t	2,6-Dichlorophenol	0.255	0.247	3.1	92	0.00	4.49
41	t	Hydroquinone	0.302	0.351	-16.2	111	0.00	4.71
43	t	4-Chloro-3-methylphenol	0.336	0.321	4.5	91	0.00	4.78
46	I	Acenaphthene-d10	1.000	1.000	0.0	105	0.00	5.67
49	t	2,4,6-Trichlorophenol	0.348	0.346	0.6	93	0.00	5.09
50	t	2,4,5-Trichlorophenol	0.388	0.371	4.4	88	0.00	5.12
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	93.824	6.2	91	0.00	5.72
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.240	0.249	-3.8	98	0.00	5.76
64	t	2,3,4,6-Tetrachlorophenol	0.310	0.322	-3.9	94	0.00	5.93
69	I	Phenanthrene-d10	1.000	1.000	0.0	108	0.00	7.03
70	t	4,6-Dinitro-2-methylpheno	0.093	0.090	3.2	92	-0.01	6.17

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EM8478-ICV8478
Lab FileID: M195488.D

		True	Calc.	% Drift			
77 t	Pentachlorophenol	100.000	90.442	9.6	92	0.00	6.83

2,3,7,8-TCDD ----------NA----------

(#) = Out of Range SPCC's out = 0 CCC's out = 0
m195471.D MM8478.M Fri May 10 11:47:46 2024

Initial Calibration Verification

Job Number: JD87833 **Sample:** EM8478-ICV8478
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** M195489.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\EM8478\m195489.D Vial: 20
Acq On : 9 May 2024 11:15 pm Operator: karimam
Sample : icv8478-50 Inst : MSM
Misc : op51889,em8478,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MM8478.M (RTE Integrator)
Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
Last Update : Fri May 10 11:24:07 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	3.70
3	t	Pyridine	1.380	1.337	3.1	88	0.00	2.47
4	t	N-Nitrosodimethylamine	0.755	0.823	-9.0	102	0.00	2.44
10	t	Aniline	1.977	2.102	-6.3	94	0.00	3.52
22	t	n-Nitroso-di-n-propylamin	1.136	1.124	1.1	93	0.00	3.91
24	I	Naphthalene-d8	1.000	1.000	0.0	105	0.00	4.44
39	t	4-Chloroaniline	0.406	0.386	4.9	93	0.00	4.48
46	I	Acenaphthene-d10	1.000	1.000	0.0	109	0.00	5.67
54	t	2-Nitroaniline	0.385	0.385	0.0	96	0.00	5.32
58	t	3-Nitroaniline	0.299	0.306	-2.3	96	0.00	5.64
68	t	4-Nitroaniline	0.316	0.328	-3.8	94	-0.01	6.15
69	I	Phenanthrene-d10	1.000	1.000	0.0	109	0.00	7.03
71	t	n-Nitrosodiphenylamine	0.522	0.494	5.4	96	0.00	6.24
84	I	Chrysene-d12	1.000	1.000	0.0	111	0.00	10.03
			True	Calc.	% Drift			
85		Benzidine	50.000	61.659	-23.3	132	0.00	8.52
90	t	3,3'-Dichlorobenzidine	0.436	0.449	-3.0	101	0.00	10.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
m195471.D MM8478.M Fri May 10 11:50:06 2024

Initial Calibration Verification

Job Number: JD87833 **Sample:** EM8478-ICV8478
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** M195490.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\EM8478\m195490.D Vial: 21
Acq On : 9 May 2024 11:37 pm Operator: karimam
Sample : icv8478-50 Inst : MSM
Misc : op51889,em8478,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MM8478.M (RTE Integrator)
Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
Last Update : Fri May 10 12:22:01 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	77	0.00	3.70
104	t	Benzaldehyde	1.227	1.278	-4.2	83	0.00	3.47
105	I	Acenaphthene-d10a	1.000	1.000	0.0	82	0.00	5.67
106	t	Atrazine	0.181	0.185	-2.2	80	0.00	6.74
111	I	Naphthalene-d8a	1.000	1.000	0.0	81	0.00	4.44
112		Caprolactam	0.194	0.191	1.5	78	0.00	4.71

(#) = Out of Range SPCC's out = 0 CCC's out = 0
m195479a.D MM8478.M Fri May 10 12:25:34 2024

6.8.17
6

Continuing Calibration Summary

Job Number: JD87833 **Sample:** EM8483-CC8478
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** M195571.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...rose\em8309\m195571.D Vial: 1
Acq On : 14 May 2024 9:54 am Operator: kaleigh
Sample : cc8478-50 Inst : MSM
Misc : op51889,em8483,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : X:\Dayton SVOA G...methods\MM8478.M (RTE Integrator)
Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
Last Update : Mon May 13 16:54:19 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	3.69
2	t	1,4-Dioxane	0.560	0.543	3.0	95	-0.01	2.30
3	t	Pyridine	1.380	1.395	-1.1	90	-0.01	2.45
4	t	N-Nitrosodimethylamine	0.755	0.662	12.3	81	-0.01	2.42
5	S	2-Fluorophenol	1.065	1.202	-12.9	96	0.00	3.01
6	t	Indene	2.227	2.340	-5.1	93	0.00	3.84
7	t	Cumene	2.742	2.937	-7.1	97	0.00	3.26
8	S	Phenol-d5	1.557	1.655	-6.3	94	0.00	3.47
9	t	Phenol	1.628	1.730	-6.3	93	0.00	3.47
10	t	Aniline	1.977	2.155	-9.0	94	0.00	3.51
11	t	bis(2-Chloroethyl)ether	1.194	1.177	1.4	94	0.00	3.53
12	t	2-Chlorophenol	1.294	1.403	-8.4	97	0.00	3.57
13	t	Decane	1.512	1.343	11.2	81	0.00	3.57
14	t	1,3-Dichlorobenzene	1.411	1.537	-8.9	100	0.00	3.66
15	t	1,4-Dichlorobenzene	1.440	1.561	-8.4	99	0.00	3.70
16	t	Benzyl alcohol	0.816	1.003	-22.9#	104	0.00	3.76
17	t	1,2-Dichlorobenzene	1.383	1.503	-8.7	100	0.00	3.78
18	t	Acetophenone	2.179	2.314	-6.2	96	0.00	3.91
19	t	2-Methylphenol	1.343	1.345	-0.1	91	0.00	3.81
20	t	2,2'-oxybis(1-Chloropropa	0.353	0.377	-6.8	99	0.00	3.82
21	t	3&4-Methylphenol	1.392	1.434	-3.0	93	0.00	3.90
22	t	n-Nitroso-di-n-propylamin	1.136	1.096	3.5	89	0.00	3.90
23	t	Hexachloroethane	0.506	0.565	-11.7	104	0.00	3.98
24	I	Naphthalene-d8	1.000	1.000	0.0	98	0.00	4.43
25	S	Nitrobenzene-d5	0.404	0.408	-1.0	97	0.00	4.00
26	t	Nitrobenzene	0.399	0.405	-1.5	94	0.00	4.01
27	t	Quinoline	0.670	0.732	-9.3	99	0.00	4.67
28	t	Isophorone	0.718	0.739	-2.9	93	0.00	4.15
29	t	2-Nitrophenol	0.149	0.184	-23.5#	111	0.00	4.20
30	t	2,4-Dimethylphenol	0.380	0.402	-5.8	96	0.00	4.21
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	50.000	55.151	-10.3	107	0.00	4.29
		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.407	0.405	0.5	94	0.00	4.27
33	t	2,4-Dichlorophenol	0.275	0.293	-6.5	100	0.00	4.34
34	t	2,6-Dichlorophenol	0.255	0.290	-13.7	102	0.00	4.48
35	t	1,3,5-Trichlorobenzene	0.315	0.325	-3.2	97	0.00	4.20
36	t	1,2,4-Trichlorobenzene	0.292	0.321	-9.9	99	0.00	4.39
37	t	1,2,3-Trichlorobenzene	0.308	0.321	-4.2	99	0.00	4.54

Continuing Calibration Summary

Job Number: JD87833 **Sample:** EM8483-CC8478
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** M195571.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

38	t	Naphthalene	0.971	1.038	-6.9	98	0.00	4.44
39	t	4-Chloroaniline	0.406	0.450	-10.8	102	0.00	4.48
40	t	2,3-Dichloroaniline	0.338	0.351	-3.8	97	0.00	5.09
41	t	Hydroquinone	0.302	0.311	-3.0	93	0.00	4.70
42	t	Hexachlorobutadiene	0.178	0.188	-5.6	99	0.00	4.51
43	t	4-Chloro-3-methylphenol	0.336	0.362	-7.7	97	0.00	4.78
44	t	2-Methylnaphthalene	0.591	0.632	-6.9	99	0.00	4.89
45	t	1-Methylnaphthalene	0.630	0.656	-4.1	98	0.00	4.96
46	I	Acenaphthene-d10	1.000	1.000	0.0	98	0.00	5.66
47	t	Hexachlorocyclopentadiene	0.311	0.357	-14.8	96	0.00	4.99
48		1,2,4,5-Tetrachlorobenzen	0.540	0.572	-5.9	96	0.00	5.00
49	t	2,4,6-Trichlorophenol	0.348	0.393	-12.9	99	0.00	5.09
50	t	2,4,5-Trichlorophenol	0.388	0.417	-7.5	93	0.00	5.11
51	S	2-Fluorobiphenyl	1.265	1.344	-6.2	95	0.00	5.14
52	t	2-Chloronaphthalene	1.066	1.167	-9.5	97	0.00	5.23
53	t	Biphenyl	1.426	1.510	-5.9	95	0.00	5.21
54	t	2-Nitroaniline	0.385	0.433	-12.5	97	0.00	5.31
55	t	Dimethylphthalate	1.331	1.434	-7.7	97	0.00	5.44
56	t	Acenaphthylene	1.614	1.809	-12.1	98	0.00	5.55
57	t	2,6-Dinitrotoluene	0.238	0.306	-28.6#	106	0.00	5.49
58	t	3-Nitroaniline	0.299	0.354	-18.4	100	0.00	5.64
59	t	Acenaphthene	1.186	1.260	-6.2	97	0.00	5.69
			True	Calc.	% Drift			
60	t	2,4-Dinitrophenol	100.000	123.216	-23.2#	118	0.00	5.72
			AvgRF	CCRF	% Dev			
61	t	4-Nitrophenol	0.240	0.261	-8.8	96	0.00	5.76
62	t	Dibenzofuran	1.623	1.736	-7.0	99	0.00	5.83
63	t	2,4-Dinitrotoluene	0.346	0.442	-27.7#	106	0.00	5.82
64	t	2,3,4,6-Tetrachlorophenol	0.310	0.359	-15.8	99	0.00	5.93
65	t	Diethylphthalate	1.425	1.572	-10.3	99	0.00	6.01
66	t	Fluorene	1.302	1.380	-6.0	93	0.00	6.13
67	t	4-Chlorophenyl-phenylethe	0.617	0.624	-1.1	90	0.00	6.12
68	t	4-Nitroaniline	0.316	0.399	-26.3#	103	0.00	6.15
69	I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00	7.02
70	t	4,6-Dinitro-2-methylpheno	0.093	0.126	-35.5#	114	0.00	6.17
71	t	n-Nitrosodiphenylamine	0.522	0.569	-9.0	98	0.00	6.22
72		Pentachloronitrobenzene	0.032	0.033#	-3.1	90	0.00	6.84
73	t	1,2-Diphenylhydrazine	0.710	0.743	-4.6	92	0.00	6.26
74	S	2,4,6-Tribromophenol	0.084	0.095	-13.1	93	0.00	6.35
75	t	4-Bromophenyl-phenylether	0.174	0.178	-2.3	93	0.00	6.57
76	t	Hexachlorobenzene	0.197	0.207	-5.1	96	0.00	6.63
			True	Calc.	% Drift			
77	t	Pentachlorophenol	100.000	106.901	-6.9	97	0.00	6.83
			AvgRF	CCRF	% Dev			
78	t	Phenanthrene	1.028	1.107	-7.7	96	0.00	7.05
79	t	Anthracene	1.014	1.139	-12.3	99	0.00	7.10
80	t	Carbazole	0.911	1.000	-9.8	95	0.00	7.27
81	t	Di-n-butylphthalate	1.144	1.320	-15.4	98	0.00	7.65
82	t	Fluoranthene	1.118	1.239	-10.8	96	0.00	8.34
83	t	Octadecane	0.494	0.472	4.5	84	0.00	6.90
84	I	Chrysene-d12	1.000	1.000	0.0	93	0.00	10.02
			True	Calc.	% Drift			

Continuing Calibration Summary

Job Number: JD87833 **Sample:** EM8483-CC8478
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** M195571.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

			AvgRF	CCRF	% Dev			
85		Benzidine	50.000	43.666	12.7	82	0.00	8.51
86	t	Pyrene	1.246	1.424	-14.3	96	0.00	8.60
87	S	Terphenyl-d14	0.888	0.976	-9.9	90	0.00	8.79
88	t	Butylbenzylphthalate	0.531	0.699	-31.6#	103	0.00	9.38
89	t	Benzo[a]anthracene	1.283	1.383	-7.8	96	0.00	10.01
90	t	3,3'-Dichlorobenzidine	0.436	0.499	-14.4	95	0.00	9.99
91	t	Chrysene	1.216	1.316	-8.2	94	0.00	10.05
92	t	bis(2-Ethylhexyl)phthalat	0.832	1.003	-20.6#	97	0.00	10.08
93	I	Perylene-d12	1.000	1.000	0.0	88	0.00	11.63
94	t	Di-n-octylphthalate	1.280	1.698	-32.7#	98	0.00	10.83
95	t	Benzo[b]fluoranthene	1.129	1.267	-12.2	91	0.00	11.23
96	t	Benzo[k]fluoranthene	1.095	1.241	-13.3	89	0.00	11.25
97	t	Benzo[a]pyrene	0.998	1.139	-14.1	89	0.00	11.56
98	t	Indeno[1,2,3-cd]pyrene	1.331	1.375	-3.3	83	0.00	12.90
99	t	Dibenz(a,h)acridine	0.883	0.944	-6.9	85	0.00	12.61
100	t	Dibenz[a,h]anthracene	1.080	1.118	-3.5	83	0.00	12.93
101	t	7,12-Dimethylbenz(a)anthr	0.442	0.538	-21.7#	94	0.00	11.22
102	t	Benzo[g,h,i]perylene	1.017	1.053	-3.5	81	0.01	13.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
m195532.D MM8478.M Tue May 14 16:24:30 2024

Continuing Calibration Summary

Job Number: JD87833 **Sample:** EM8483-CC8478
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** M195572.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...rose\em8309\m195572.D Vial: 2
Acq On : 14 May 2024 10:15 am Operator: kaleigh
Sample : cc8478-50 Inst : MSM
Misc : op51889,em8483,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : X:\Dayton SVOA G...methods\MM8478.M (RTE Integrator)
Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
Last Update : Mon May 13 16:54:19 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	115	0.00	3.69
104	t	Benzaldehyde	1.227	1.186	3.3	115	0.00	3.46
105	I	Acenaphthene-d10a	1.000	1.000	0.0	111	0.00	5.66
106	t	Atrazine	0.181	0.189	-4.4	110	0.00	6.74
107	I	Chrysene-d12a	1.000	1.000	0.0	104	0.00	10.02
108	s	1-chlorooctadecane	0.405	0.386	4.7	96	0.00	8.22
109		Phenanthrene-d10a	1.000	1.000	0.0	108	0.00	7.02
110	s	o-terphenyl	0.556	0.531	4.5	105	0.00	7.42
111	I	Naphthalene-d8a	1.000	1.000	0.0	115	0.00	4.43
112		Caprolactam	0.194	0.180	7.2	104	0.00	4.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
m195532.D MM8478.M Tue May 14 16:24:33 2024

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: ECJ296	**Method:** SW846 8270E	**Instrument ID:** GCMSCJ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
ECJ296-DFTPP	CJ6488.D	05/08/24 14:56	n/a	DFTPP Tune
ECJ296-ICC296	CJ6490.D	05/08/24 16:42	n/a	Initial cal 50
ECJ296-IC296	CJ6491.D	05/08/24 17:20	n/a	Initial cal 1
ECJ296-IC296	CJ6492.D	05/08/24 17:39	n/a	Initial cal 2
ECJ296-IC296	CJ6493.D	05/08/24 17:58	n/a	Initial cal 5
ECJ296-IC296	CJ6494.D	05/08/24 18:17	n/a	Initial cal 10
ECJ296-IC296	CJ6495.D	05/08/24 18:36	n/a	Initial cal 25
ECJ296-IC296	CJ6496.D	05/08/24 18:54	n/a	Initial cal 80
ECJ296-IC296	CJ6497.D	05/08/24 19:13	n/a	Initial cal 100
ECJ296-IC296	CJ6498.D	05/08/24 19:32	n/a	Initial cal 50
ECJ296-IC296	CJ6499.D	05/08/24 19:51	n/a	Initial cal 1
ECJ296-IC296	CJ6500.D	05/08/24 20:10	n/a	Initial cal 2
ECJ296-IC296	CJ6501.D	05/08/24 20:29	n/a	Initial cal 5
ECJ296-IC296	CJ6502.D	05/08/24 20:47	n/a	Initial cal 10
ECJ296-IC296	CJ6503.D	05/08/24 21:06	n/a	Initial cal 25
ECJ296-IC296	CJ6504.D	05/08/24 21:25	n/a	Initial cal 80
ECJ296-IC296	CJ6505.D	05/08/24 21:43	n/a	Initial cal 100
ECJ296-ICV296	CJ6506.D	05/08/24 22:02	n/a	Initial cal verification 50
ECJ296-ICV296	CJ6507.D	05/08/24 22:20	n/a	Initial cal verification 50
ECJ296-ICV296	CJ6508.D	05/08/24 22:39	n/a	Initial cal verification 50
ECJ296-ICV296	CJ6509.D	05/08/24 22:58	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: ECJ297	**Method:** SW846 8270E	**Instrument ID:** GCMSCJ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
ECJ297-DFTPP	CJ6510.D	05/09/24 15:28	n/a	DFTPP Tune
ECJ297-CC296	CJ6511.D	05/09/24 15:40	n/a	Continuing cal 50
ECJ297-CC296	CJ6512.D	05/09/24 15:59	n/a	Continuing cal 50
OP54484B-MB1	CJ6513.D	05/09/24 16:26	OP54484B	Method Blank
OP54484B-BS1	CJ6514.D	05/09/24 16:44	OP54484B	Blank Spike
OP54484B-BSD	CJ6515.D	05/09/24 17:03	OP54484B	Blank Spike Duplicate
OP54460-MB1	CJ6516.D	05/09/24 17:22	OP54460	Method Blank
OP54460-BS1	CJ6517.D	05/09/24 17:41	OP54460	Blank Spike
ZZZZZZ	CJ6518.D	05/09/24 18:00	OP54484B	(unrelated sample)
ZZZZZZ	CJ6519.D	05/09/24 18:18	OP53945A	(unrelated sample)
ZZZZZZ	CJ6520.D	05/09/24 18:37	OP53945A	(unrelated sample)
ZZZZZZ	CJ6521.D	05/09/24 18:56	OP54455	(unrelated sample)
ZZZZZZ	CJ6522.D	05/09/24 19:15	OP54455	(unrelated sample)
ZZZZZZ	CJ6523.D	05/09/24 19:34	OP54455	(unrelated sample)
ZZZZZZ	CJ6524.D	05/09/24 19:52	OP54455	(unrelated sample)
JD87833-3	CJ6525.D	05/09/24 20:11	OP54460	SB-3
JD87833-11	CJ6526.D	05/09/24 20:30	OP54460	SB-11
OP54460-MS	CJ6527.D	05/09/24 20:49	OP54460	Matrix Spike
OP54460-MSD	CJ6528.D	05/09/24 21:07	OP54460	Matrix Spike Duplicate
JD87833-2	CJ6529.D	05/09/24 21:26	OP54460	SB-2
JD87833-4	CJ6530.D	05/09/24 21:45	OP54460	SB-4
JD87833-5	CJ6531.D	05/09/24 22:03	OP54460	SB-5
JD87833-6	CJ6532.D	05/09/24 22:22	OP54460	SB-6
JD87833-8	CJ6533.D	05/09/24 22:41	OP54460	SB-8
JD87833-10	CJ6534.D	05/09/24 23:00	OP54460	SB-10
JD87833-12	CJ6535.D	05/09/24 23:19	OP54460	SB-12
JD87833-13	CJ6536.D	05/09/24 23:38	OP54460	SB-13
JD87833-16	CJ6537.D	05/09/24 23:57	OP54460	DUPE 2
JD87833-1	CJ6538.D	05/10/24 00:16	OP54460	SB-1
JD87833-7	CJ6539.D	05/10/24 00:35	OP54460	SB-7
JD87833-9	CJ6540.D	05/10/24 00:54	OP54460	SB-9
JD87833-14	CJ6541.D	05/10/24 01:13	OP54460	SB-14
JD87833-15	CJ6542.D	05/10/24 01:32	OP54460	DUPE 1

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: ECJ298	**Method:** SW846 8270E	**Instrument ID:** GCMSCJ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
ECJ298-DFTPP	CJ6545.D	05/10/24 09:19	n/a	DFTPP Tune
ECJ298-CC296	CJ6546.D	05/10/24 09:29	n/a	Continuing cal 50
ECJ298-CC296	CJ6547.D	05/10/24 09:48	n/a	Continuing cal 50
ECJ298-CC296	CJ6549.D	05/10/24 10:27	n/a	Continuing cal 5
OP54467B-MB1	CJ6550.D	05/10/24 10:50	OP54467B	Method Blank
OP54467-MB1	CJ6550.D	05/10/24 10:50	OP54467	Method Blank
OP54467B-BS1	CJ6551.D	05/10/24 11:09	OP54467B	Blank Spike
OP54467-BS1	CJ6551.D	05/10/24 11:09	OP54467	Blank Spike
OP54467B-BSD	CJ6552.D	05/10/24 11:28	OP54467B	Blank Spike Duplicate
OP54467-BSD	CJ6552.D	05/10/24 11:28	OP54467	Blank Spike Duplicate
ZZZZZZ	CJ6553.D	05/10/24 11:48	OP54467B	(unrelated sample)
ZZZZZZ	CJ6554.D	05/10/24 12:07	OP54467	(unrelated sample)
JD87833-17	CJ6555.D	05/10/24 12:26	OP54467	FIELD BLANK
ZZZZZZ	CJ6556.D	05/10/24 12:45	OP54467	(unrelated sample)
ZZZZZZ	CJ6557.D	05/10/24 13:04	OP54467B	(unrelated sample)
ZZZZZZ	CJ6558.D	05/10/24 13:23	OP54467B	(unrelated sample)
ZZZZZZ	CJ6559.D	05/10/24 13:42	OP54467B	(unrelated sample)
ZZZZZZ	CJ6560.D	05/10/24 14:00	OP54467B	(unrelated sample)
ZZZZZZ	CJ6561.D	05/10/24 14:19	OP54467B	(unrelated sample)
ZZZZZZ	CJ6562.D	05/10/24 14:38	OP54467B	(unrelated sample)
ZZZZZZ	CJ6563.D	05/10/24 14:57	OP54467B	(unrelated sample)
ZZZZZZ	CJ6564.D	05/10/24 15:16	OP54467B	(unrelated sample)
ZZZZZZ	CJ6565.D	05/10/24 15:35	OP54467B	(unrelated sample)
ZZZZZZ	CJ6566.D	05/10/24 15:54	OP54467B	(unrelated sample)
ZZZZZZ	CJ6575.D	05/10/24 16:12	OP54478	(unrelated sample)
ZZZZZZ	CJ6576.D	05/10/24 16:31	OP54478	(unrelated sample)
ZZZZZZ	CJ6577.D	05/10/24 16:50	OP54455	(unrelated sample)
ZZZZZZ	CJ6567.D	05/10/24 17:50	OP54467B	(unrelated sample)
ZZZZZZ	CJ6568.D	05/10/24 18:27	OP54467B	(unrelated sample)
ZZZZZZ	CJ6569.D	05/10/24 18:46	OP54458	(unrelated sample)
ZZZZZZ	CJ6570.D	05/10/24 19:05	OP54458	(unrelated sample)
ZZZZZZ	CJ6571.D	05/10/24 19:24	OP54458	(unrelated sample)
ZZZZZZ	CJ6572.D	05/10/24 19:43	OP54458	(unrelated sample)
ZZZZZZ	CJ6573.D	05/10/24 20:02	OP54457	(unrelated sample)
ZZZZZZ	CJ6574.D	05/10/24 20:21	OP54457	(unrelated sample)

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: ECJ302	**Method:** SW846 8270E	**Instrument ID:** GCMSCJ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
ECJ302-CC296	CJ6675.D	05/13/24 08:25	n/a	Continuing cal 50
ECJ302-CC296	CJ6676.D	05/13/24 08:48	n/a	Continuing cal 50
OP54535-MB1	CJ6677.D	05/13/24 09:07	OP54535	Method Blank
OP54535-BS1	CJ6678.D	05/13/24 09:25	OP54535	Blank Spike
ZZZZZZ	CJ6679.D	05/13/24 09:45	OP54478	(unrelated sample)
JD87833-5	CJ6680.D	05/13/24 10:04	OP54460	SB-5
JD87833-15	CJ6681.D	05/13/24 10:23	OP54460	DUPE 1
OP54535-MS	CJ6682.D	05/13/24 10:42	OP54535	Matrix Spike
OP54535-MSD	CJ6683.D	05/13/24 11:01	OP54535	Matrix Spike Duplicate
JD88080-1	CJ6684.D	05/13/24 11:20	OP54535	(used for QC only; not part of job JD87833)
ZZZZZZ	CJ6685.D	05/13/24 11:38	OP54535	(unrelated sample)
ZZZZZZ	CJ6686.D	05/13/24 11:57	OP54535	(unrelated sample)
ZZZZZZ	CJ6687.D	05/13/24 12:16	OP54535	(unrelated sample)
ZZZZZZ	CJ6688.D	05/13/24 12:34	OP54535	(unrelated sample)
ZZZZZZ	CJ6689.D	05/13/24 12:53	OP54495	(unrelated sample)
ZZZZZZ	CJ6690.D	05/13/24 13:12	OP54495	(unrelated sample)
ZZZZZZ	CJ6691.D	05/13/24 13:31	OP54495	(unrelated sample)
ZZZZZZ	CJ6692.D	05/13/24 13:50	OP54535	(unrelated sample)
ZZZZZZ	CJ6693.D	05/13/24 14:09	OP54535	(unrelated sample)
ZZZZZZ	CJ6694.D	05/13/24 14:27	OP54535	(unrelated sample)
ZZZZZZ	CJ6695.D	05/13/24 14:46	OP54535	(unrelated sample)
JD87882-1	CJ6696.D	05/13/24 15:05	OP54495	(used for QC only; not part of job JD87833)
ZZZZZZ	CJ6697.D	05/13/24 15:24	OP54495	(unrelated sample)
ZZZZZZ	CJ6698.D	05/13/24 15:43	OP54495	(unrelated sample)
ZZZZZZ	CJ6699.D	05/13/24 16:01	OP54495	(unrelated sample)
ZZZZZZ	CJ6700.D	05/13/24 16:20	OP54535	(unrelated sample)
ZZZZZZ	CJ6701.D	05/13/24 16:39	OP54535	(unrelated sample)
ZZZZZZ	CJ6702.D	05/13/24 16:58	OP54535	(unrelated sample)
ZZZZZZ	CJ6703.D	05/13/24 17:16	OP54535	(unrelated sample)
ZZZZZZ	CJ6704.D	05/13/24 17:35	OP54535	(unrelated sample)
ZZZZZZ	CJ6705.D	05/13/24 17:54	OP54535	(unrelated sample)
ZZZZZZ	CJ6706.D	05/13/24 18:13	OP54535	(unrelated sample)
ZZZZZZ	CJ6707.D	05/13/24 18:32	OP54535	(unrelated sample)
ZZZZZZ	CJ6708.D	05/13/24 18:51	OP54535	(unrelated sample)

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: EM8478	**Method:** SW846 8270E	**Instrument ID:** GCMSM

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
EM8478-DFTPP	M195470.D	05/09/24 16:29	n/a	DFTPP Tune
EM8478-ICC8478	M195471.D	05/09/24 16:41	n/a	Initial cal 50
EM8478-IC8478	M195472.D	05/09/24 17:04	n/a	Initial cal 1
EM8478-IC8478	M195473.D	05/09/24 17:27	n/a	Initial cal 2
EM8478-IC8478	M195474.D	05/09/24 17:51	n/a	Initial cal 5
EM8478-IC8478	M195475.D	05/09/24 18:12	n/a	Initial cal 10
EM8478-IC8478	M195476.D	05/09/24 18:33	n/a	Initial cal 25
EM8478-IC8478	M195477.D	05/09/24 18:55	n/a	Initial cal 80
EM8478-IC8478	M195478.D	05/09/24 19:16	n/a	Initial cal 100
EM8478-IC8478	M195479.D	05/09/24 19:39	n/a	Initial cal 50
EM8478-IC8478	M195480.D	05/09/24 20:00	n/a	Initial cal 1
EM8478-IC8478	M195481.D	05/09/24 20:23	n/a	Initial cal 2
EM8478-IC8478	M195482.D	05/09/24 20:46	n/a	Initial cal 5
EM8478-IC8478	M195483.D	05/09/24 21:07	n/a	Initial cal 10
EM8478-IC8478	M195484.D	05/09/24 21:28	n/a	Initial cal 25
EM8478-IC8478	M195485.D	05/09/24 21:50	n/a	Initial cal 80
EM8478-IC8478	M195486.D	05/09/24 22:11	n/a	Initial cal 100
EM8478-ICV8478	M195487.D	05/09/24 22:33	n/a	Initial cal verification 50
EM8478-ICV8478	M195488.D	05/09/24 22:54	n/a	Initial cal verification 50
EM8478-ICV8478	M195489.D	05/09/24 23:15	n/a	Initial cal verification 50
EM8478-ICV8478	M195490.D	05/09/24 23:37	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: EM8483	**Method:** SW846 8270E	**Instrument ID:** GCMSM

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
EM8483-CC8478	M195571.D	05/14/24 09:54	n/a	Continuing cal 50
EM8483-CC8478	M195572.D	05/14/24 10:15	n/a	Continuing cal 50
ZZZZZZ	M195574.D	05/14/24 10:58	OP54622	(unrelated sample)
ZZZZZZ	M195575.D	05/14/24 11:19	OP54622	(unrelated sample)
ZZZZZZ	M195576.D	05/14/24 11:41	OP54622	(unrelated sample)
ZZZZZZ	M195577.D	05/14/24 12:02	OP54618	(unrelated sample)
JD87833-17	M195578.D	05/14/24 12:23	OP54618	FIELD BLANK
ZZZZZZ	M195579.D	05/14/24 12:45	OP54618	(unrelated sample)
ZZZZZZ	M195580.D	05/14/24 13:09	OP54622	(unrelated sample)
ZZZZZZ	M195581.D	05/14/24 13:31	OP54622	(unrelated sample)
ZZZZZZ	M195582.D	05/14/24 13:53	OP54622	(unrelated sample)
ZZZZZZ	M195583.D	05/14/24 14:14	OP54622	(unrelated sample)
ZZZZZZ	M195584.D	05/14/24 14:35	OP54622	(unrelated sample)
ZZZZZZ	M195585.D	05/14/24 14:57	OP54622	(unrelated sample)
ZZZZZZ	M195586.D	05/14/24 15:18	OP54622	(unrelated sample)
ZZZZZZ	M195587.D	05/14/24 15:39	OP54495	(unrelated sample)
ZZZZZZ	M195588.D	05/14/24 16:01	OP54495	(unrelated sample)
ZZZZZZ	M195589.D	05/14/24 16:24	OP54495	(unrelated sample)
ZZZZZZ	M195590.D	05/14/24 16:48	OP54622	(unrelated sample)
ZZZZZZ	M195591.D	05/14/24 17:09	OP54495	(unrelated sample)
ZZZZZZ	M195592.D	05/14/24 17:30	OP54495	(unrelated sample)
ZZZZZZ	M195593.D	05/14/24 17:52	OP54495	(unrelated sample)
ZZZZZZ	M195600.D	05/14/24 20:24	OP54570	(unrelated sample)

MS Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 05/13/24 01:29

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1 Inst : GCMSCJ
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: May 10 19:55:46 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.664	152	341096	40.00	ppm	0.00
24) Naphthalene-d8	5.466	136	1195650	40.00	ppm	0.00
46) Acenaphthene-d10	6.659	164	664891	40.00	ppm	0.00
69) Phenanthrene-d10	7.873	188	1157966	40.00	ppm	0.00
84) Chrysene-d12	10.366	240	835035	40.00	ppm	0.00
93) Perylene-d12	11.719	264	838133	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.664	152	341096	40.00	ppm	0.00
105) Phenanthrene-d10a	7.873	188	1157966	40.00	ppm	0.00
107) Naphthalene-d8a	5.466	136	1195650	40.00	ppm	0.00
109) Phenanthrene-d10b	7.873	188	1157966	40.00	ppm	0.00
112) Chrysene-d12a	10.366	240	835035	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.808	112	333220	33.99	ppm	0.01
Spiked Amount 50.000			Recovery = 67.98%			
8) Phenol-d5	4.423	99	457577	36.18	ppm	0.00
Spiked Amount 50.000			Recovery = 72.36%			
25) Nitrobenzene-d5	5.012	82	440153	35.95	ppm	0.00
Spiked Amount 50.000			Recovery = 71.90%			
51) 2-Fluorobiphenyl	6.167	172	801392	38.30	ppm	0.00
Spiked Amount 50.000			Recovery = 76.60%			
74) 2,4,6-Tribromophenol	7.274	330	114159	44.96	ppm	0.00
Spiked Amount 50.000			Recovery = 89.92%			
87) Terphenyl-d14	9.355	244	837568	40.60	ppm	0.00
Spiked Amount 50.000			Recovery = 81.20%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
9) Phenol	4.439	94	35903	2.6352	ppm #	54
21) 3&4-Methylphenol	4.910	108	4585	0.4711	ppm	97
38) Naphthalene	5.482	128	6360	0.2221	ppm	93
44) 2-Methylnaphthalene	5.926	141	3264	0.1922	ppm	93
53) Biphenyl	6.236	154	3130	0.1370	ppm	87
56) Acenaphthylene	6.557	152	34726	1.3466	ppm	96
59) Acenaphthene	6.680	153	7361	0.4014	ppm	81
66) Fluorene	7.082	166	10892m	0.5418	ppm	
78) Phenanthrene	7.889	178	151221	5.4037	ppm	99
79) Anthracene	7.937	178	44621	1.5924	ppm	97
80) Carbazole	8.076	167	17767	0.6804	ppm	98
81) Di-n-butylphthalate	8.397	149	10308	0.3195	ppm	94
82) Fluoranthene	8.980	202	328787	10.8522	ppm	98
86) Pyrene	9.194	202	313216	11.0294	ppm	99
89) Benzo[a]anthracene	10.355	228	139541	5.1974	ppm	93
91) Chrysene	10.387	228	150700	6.0837	ppm	98
92) bis(2-Ethylhexyl)phtha...	10.408	149	33593	1.7900	ppm	98
95) Benzo[b]fluoranthene	11.350	252	192968m	7.6215	ppm	
96) Benzo[k]fluoranthene	11.377	252	58053m	2.5481	ppm	
97) Benzo[a]pyrene	11.660	252	113636	5.4217	ppm	100
98) Indeno[1,2,3-cd]pyrene	12.901	276	83252	3.2856	ppm	98
100) Dibenz[a,h]anthracene	12.922	278	21735	1.0735	ppm	89
102) Benzo[g,h,i]perylene	13.243	276	79736	4.0494	ppm	98
104) Benzaldehyde	4.386	105	3733	0.3823	ppm	88

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1 Inst : GCMSCJ
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: May 10 19:55:46 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

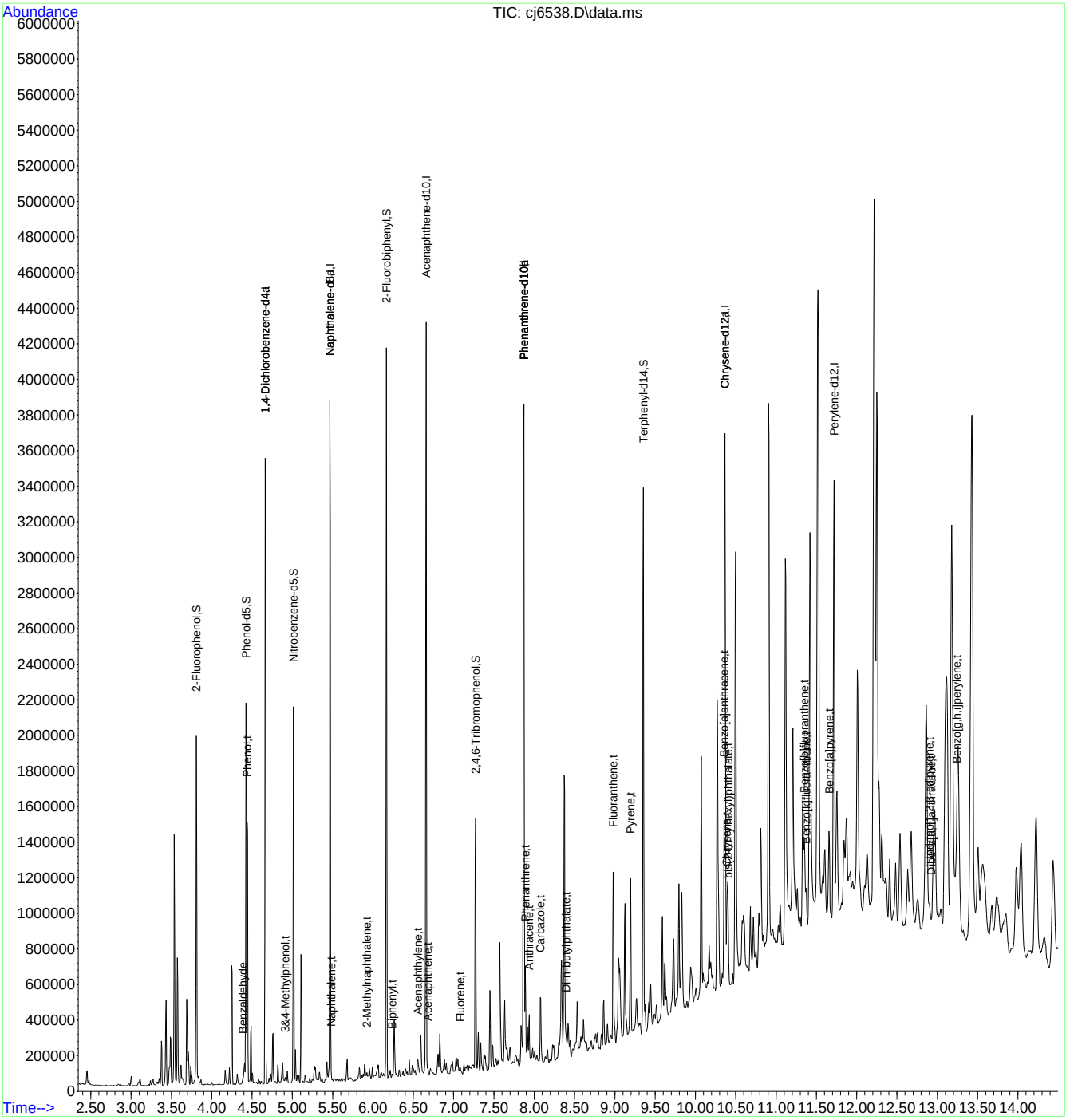
(#) = qualifier out of range (m) = manual integration (+) = signals summed

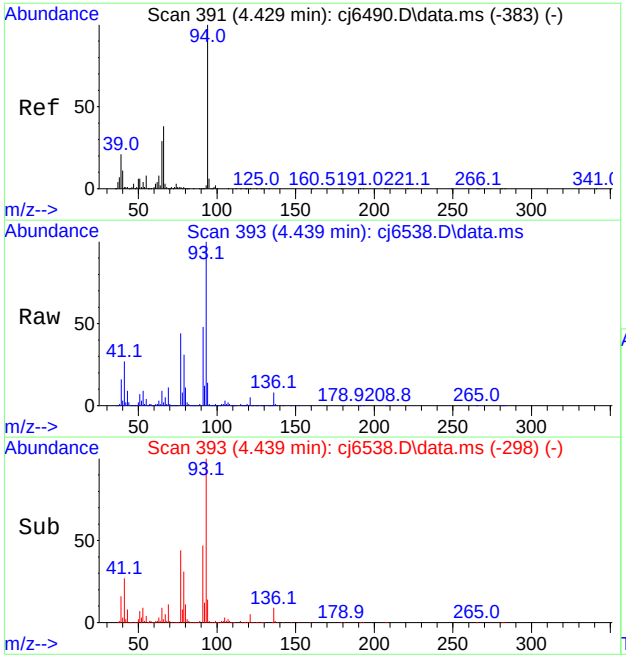
7.1.1

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1 Inst : GCMSCJ
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: May 10 19:55:46 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

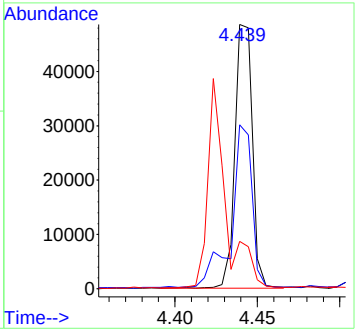


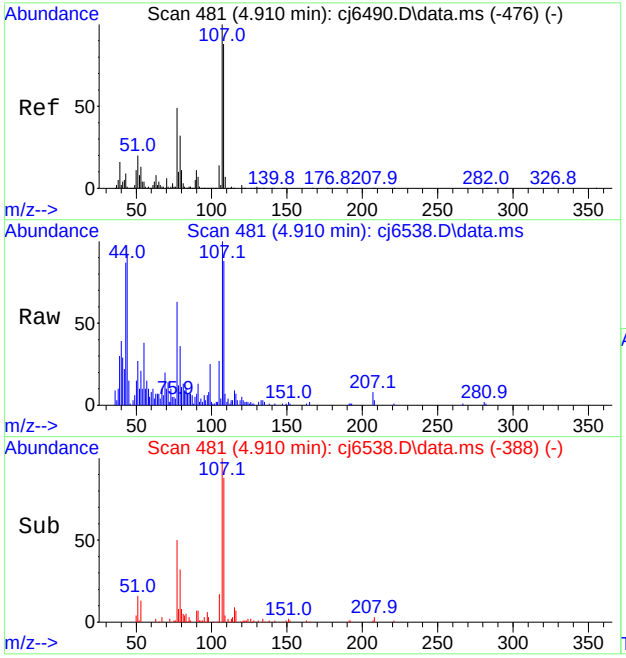


#9
Phenol
Concen: 2.6352 ppm
RT: 4.439 min Scan# 393
Delta R.T. 0.010 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion: 94 Resp: 35903

Ion	Ratio	Lower	Upper
94	100		
65	61.7	0.0	58.1#
66	17.5	6.6	66.6

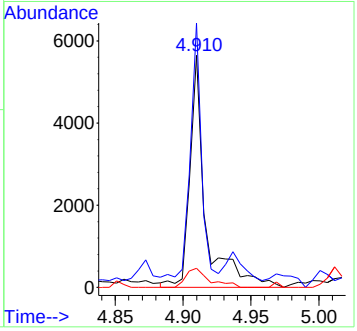


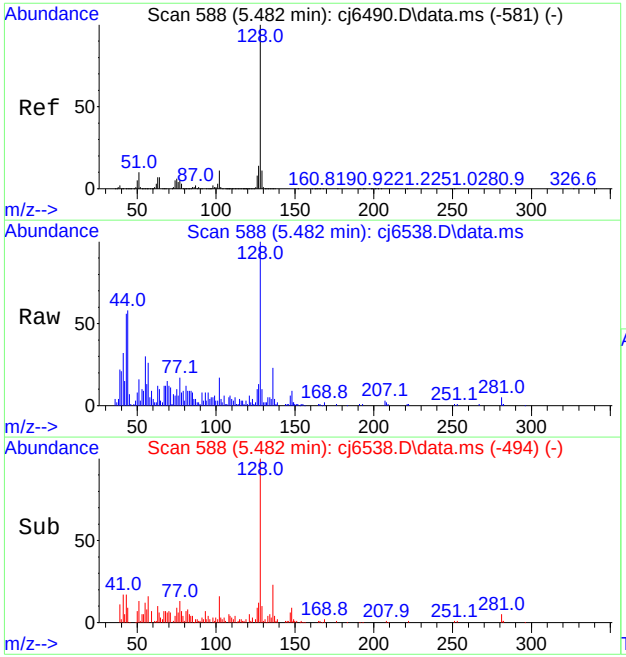


#21
3&4-Methylphenol
Concen: 0.4711 ppm
RT: 4.910 min Scan# 481
Delta R.T. -0.000 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:108 Resp: 4585

Ion	Ratio	Lower	Upper
108	100		
107	110.4	83.2	143.2
90	8.3	0.0	42.4

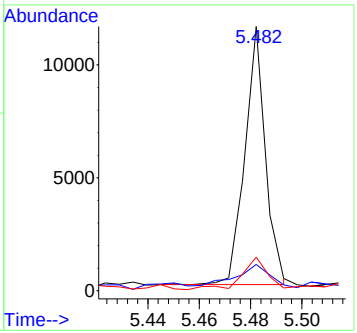


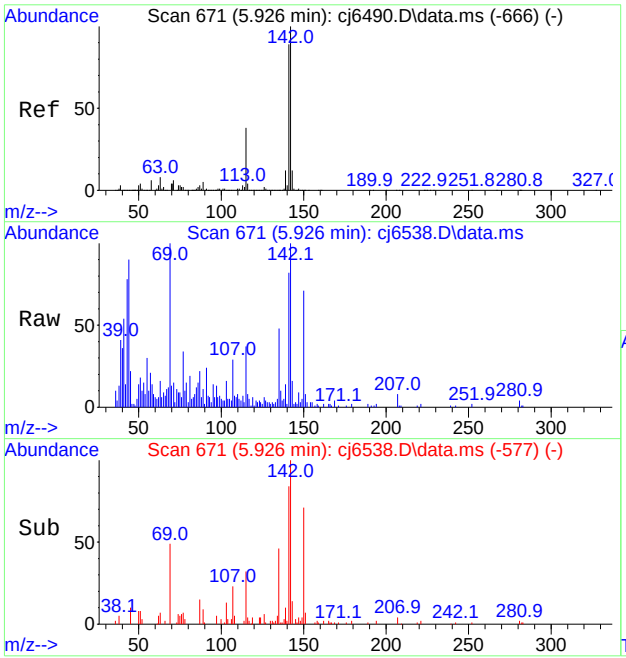


#38
Naphthalene
Concen: 0.2221 ppm
RT: 5.482 min Scan# 588
Delta R.T. 0.000 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:128 Resp: 6360

Ion	Ratio	Lower	Upper
128	100		
129	7.9	0.0	41.4
127	11.5	0.0	43.3

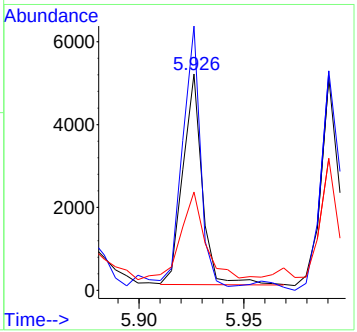


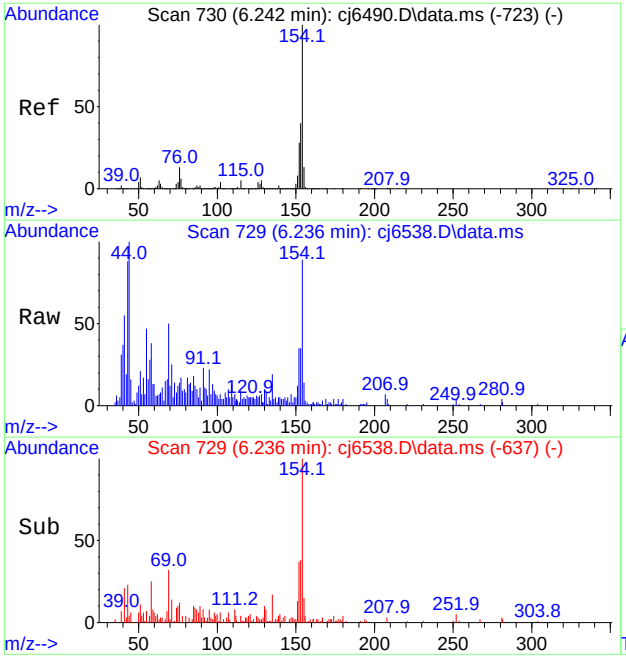


#44
2-Methylnaphthalene
Concen: 0.1922 ppm
RT: 5.926 min Scan# 671
Delta R.T. 0.000 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:141 Resp: 3264

Ion	Ratio	Lower	Upper
141	100		
142	120.4	82.7	142.7
115	37.7	12.4	72.4

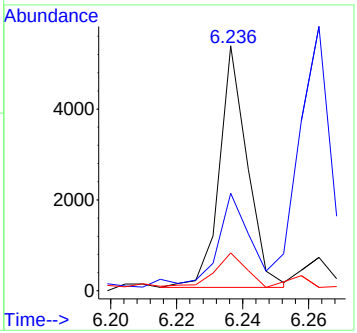


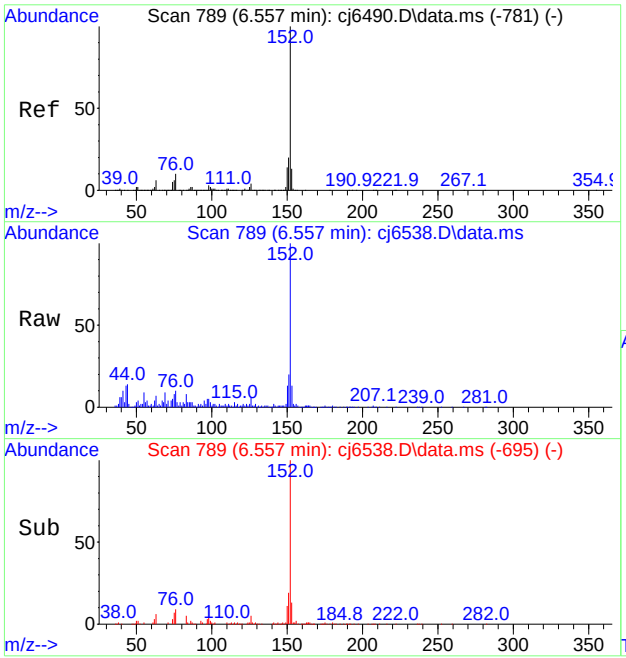


#53
Biphenyl
Concen: 0.1370 ppm
RT: 6.236 min Scan# 729
Delta R.T. -0.006 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:154 Resp: 3130

Ion	Ratio	Lower	Upper
154	100		
153	30.3	10.5	70.5
155	13.1	0.0	42.8

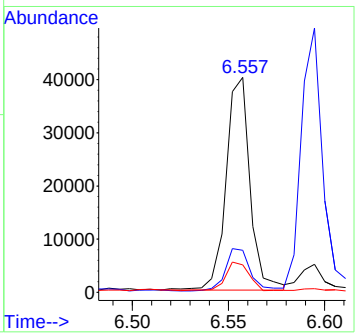


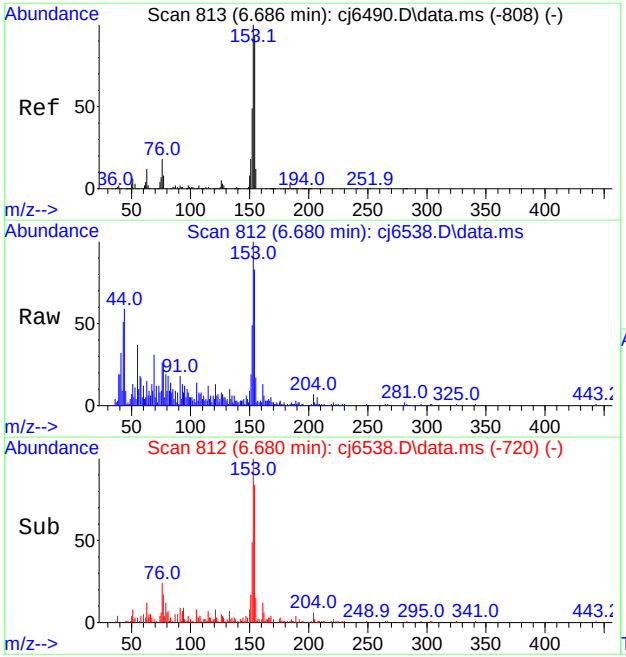


#56
Acenaphthylene
Concen: 1.3466 ppm
RT: 6.557 min Scan# 789
Delta R.T. 0.000 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:152 Resp: 34726

Ion	Ratio	Lower	Upper
152	100		
151	18.4	0.0	50.3
153	11.6	0.0	43.4

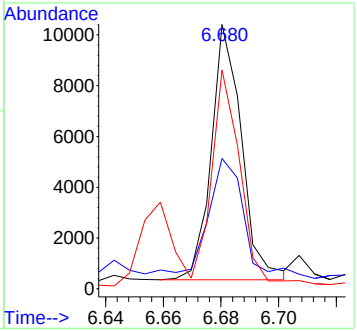


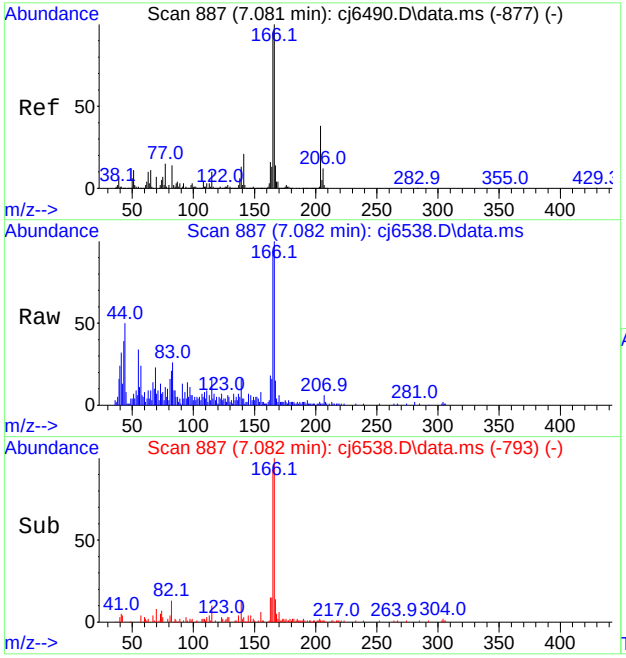


#59
Acenaphthene
Concen: 0.4014 ppm
RT: 6.680 min Scan# 812
Delta R.T. -0.006 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:153 Resp: 7361

Ion	Ratio	Lower	Upper
153	100		
152	44.0	18.8	78.8
154	68.4	62.9	122.9

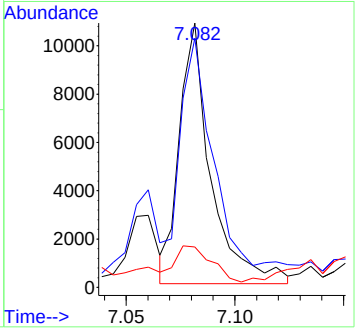


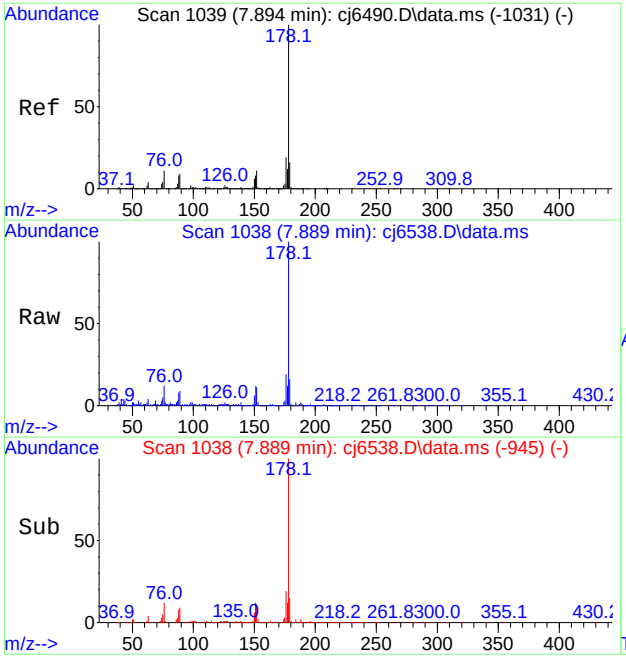


#66
Fluorene
Concen: 0.5418 ppm m
RT: 7.082 min Scan# 887
Delta R.T. 0.000 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:166 Resp: 10892

Ion	Ratio	Lower	Upper
166	100		
165	94.2	65.4	125.4
167	15.3	0.0	43.8

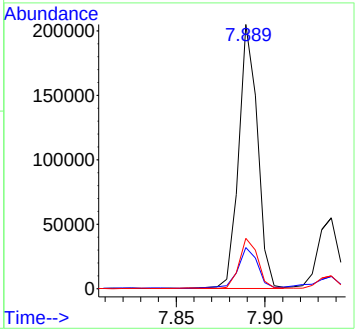


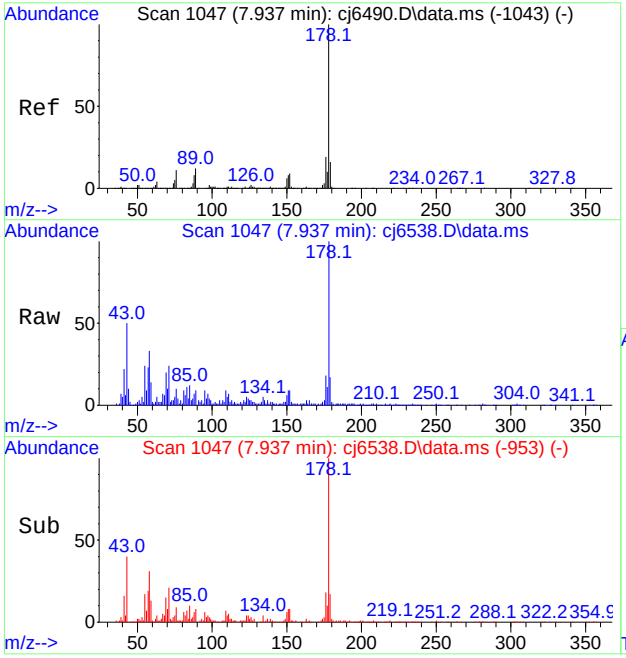


#78
Phenanthrene
Concen: 5.4037 ppm
RT: 7.889 min Scan# 1038
Delta R.T. -0.005 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:178 Resp: 151221

Ion	Ratio	Lower	Upper
178	100		
179	15.1	0.0	45.5
176	19.0	0.0	49.2

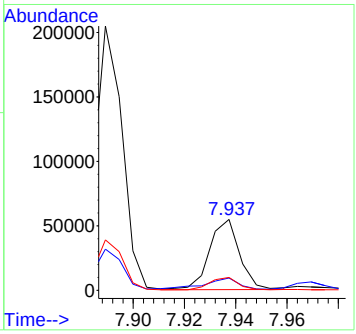


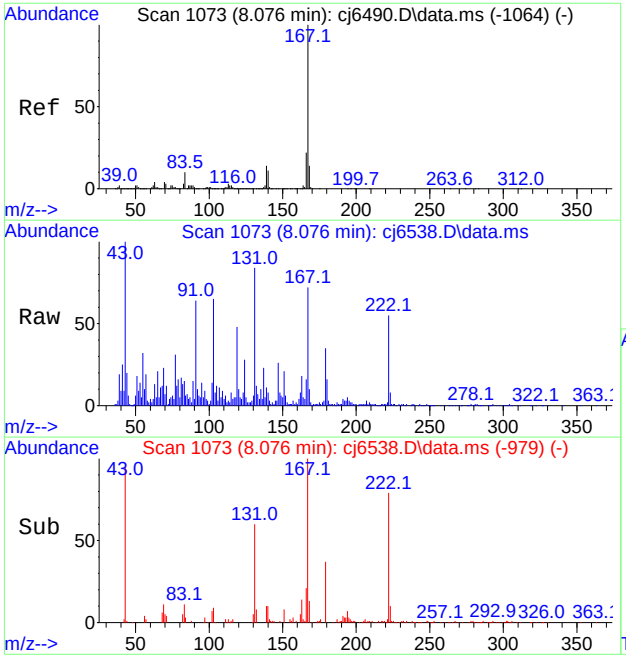


#79
Anthracene
Concen: 1.5924 ppm
RT: 7.937 min Scan# 1047
Delta R.T. 0.000 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:178 Resp: 44621

Ion	Ratio	Lower	Upper
178	100		
179	14.7	0.0	46.1
176	17.7	0.0	48.7

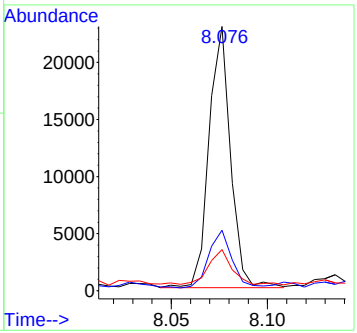


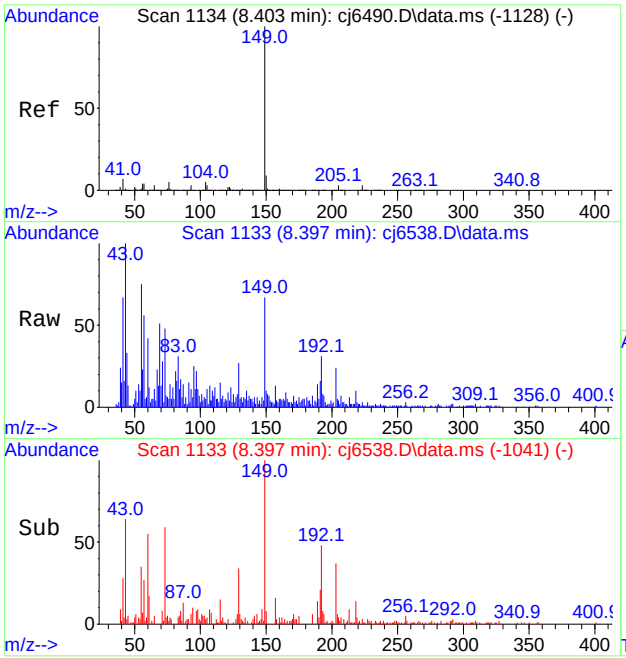


#80
Carbazole
Concen: 0.6804 ppm
RT: 8.076 min Scan# 1073
Delta R.T. 0.000 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:167 Resp: 17767

Ion	Ratio	Lower	Upper
167	100		
166	20.8	0.0	51.7
139	13.3	0.0	43.8

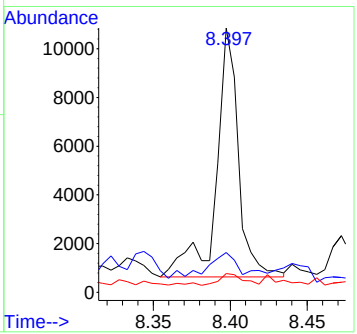


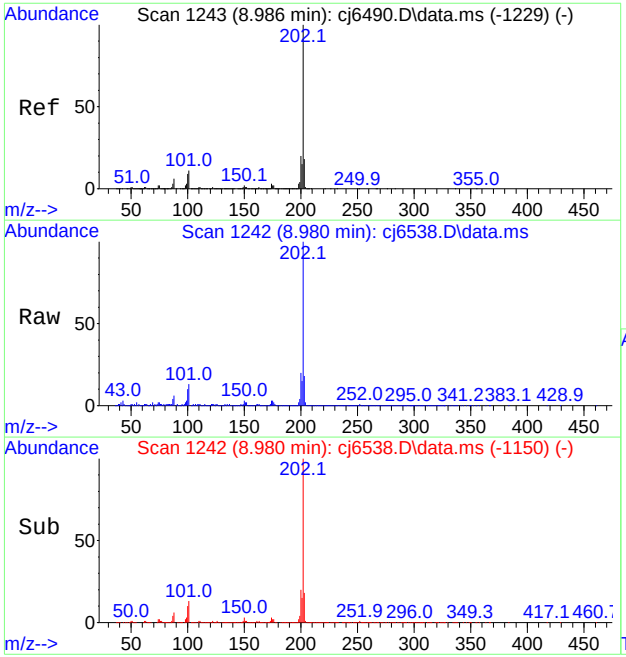


#81
Di-n-butylphthalate
Concen: 0.3195 ppm
RT: 8.397 min Scan# 1133
Delta R.T. -0.006 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:149 Resp: 10308

Ion	Ratio	Lower	Upper
149	100		
150	6.9	0.0	39.3
104	3.4	0.0	35.2

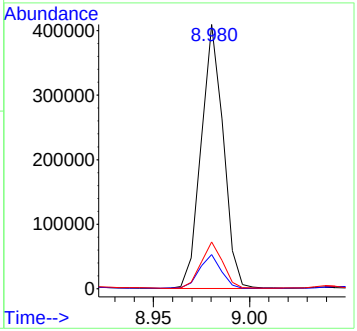


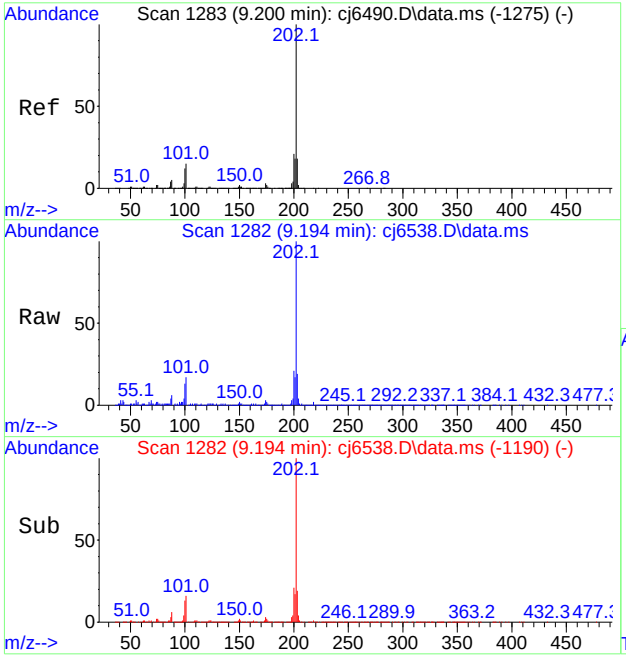


#82
Fluoranthene
Concen: 10.8522 ppm
RT: 8.980 min Scan# 1242
Delta R.T. -0.006 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:202 Resp: 328787

Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	41.4
203	17.5	0.0	47.6

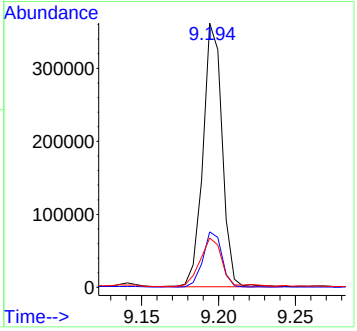


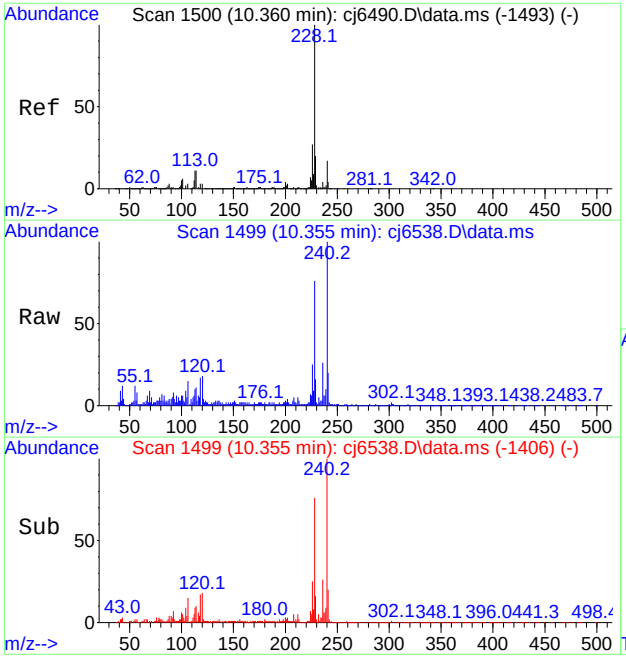


#86
Pyrene
Concen: 11.0294 ppm
RT: 9.194 min Scan# 1282
Delta R.T. -0.006 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:202 Resp: 313216

Ion	Ratio	Lower	Upper
202	100		
200	20.8	0.0	51.4
203	18.2	0.0	47.8

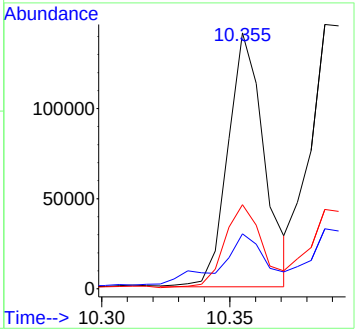


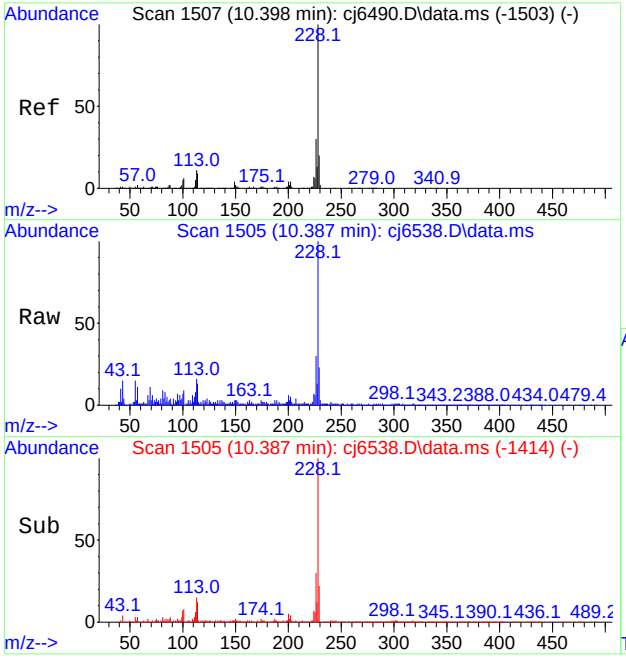


#89
Benzo[a]anthracene
Concen: 5.1974 ppm
RT: 10.355 min Scan# 1499
Delta R.T. -0.005 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:228 Resp: 139541

Ion	Ratio	Lower	Upper
228	100		
229	19.3	0.0	49.8
226	32.6	0.0	57.1

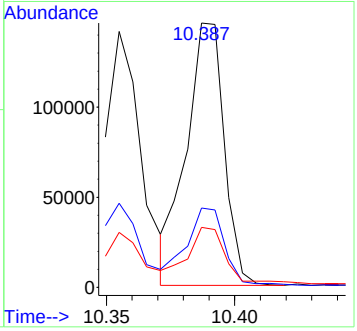


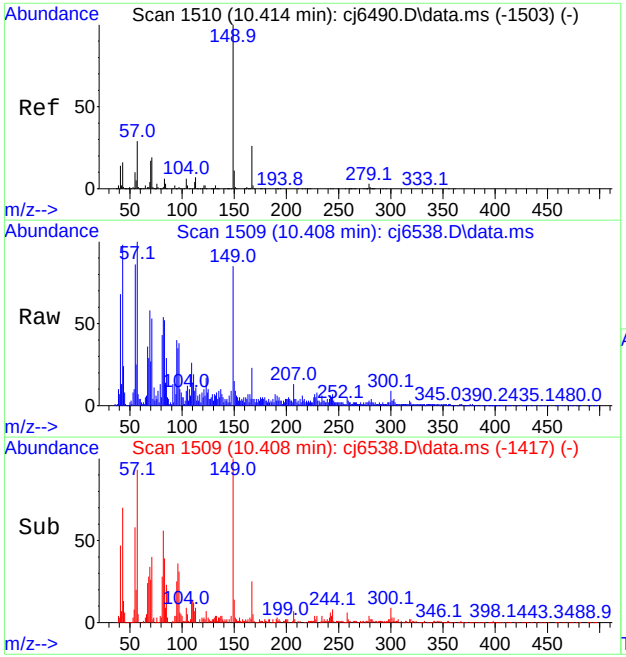


#91
Chrysene
Concen: 6.0837 ppm
RT: 10.387 min Scan# 1505
Delta R.T. -0.011 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:228 Resp: 150700

Ion	Ratio	Lower	Upper
228	100		
226	29.0	0.0	59.9
229	20.5	0.0	49.8

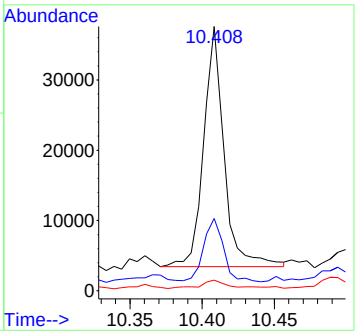


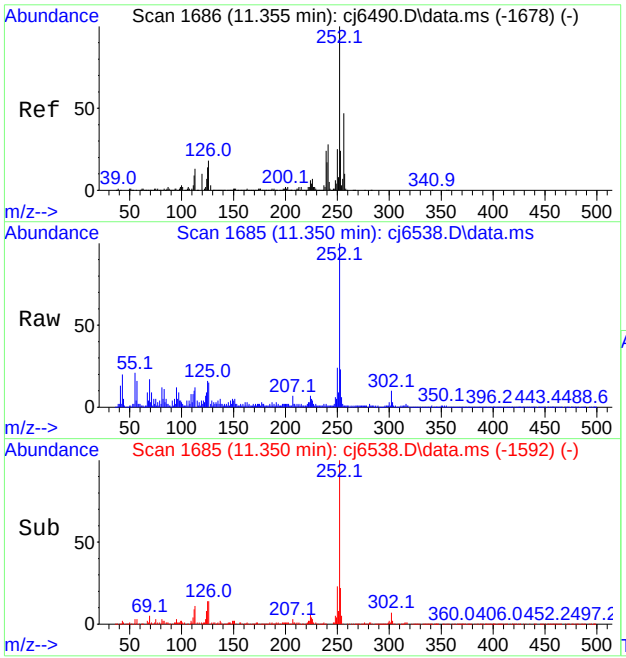


#92
bis(2-Ethylhexyl)phthalate
Concen: 1.7900 ppm
RT: 10.408 min Scan# 1509
Delta R.T. -0.006 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:149 Resp: 33593

Ion	Ratio	Lower	Upper
149	100		
167	24.8	0.0	56.1
279	3.2	0.0	33.2

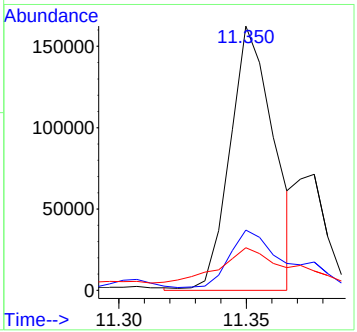


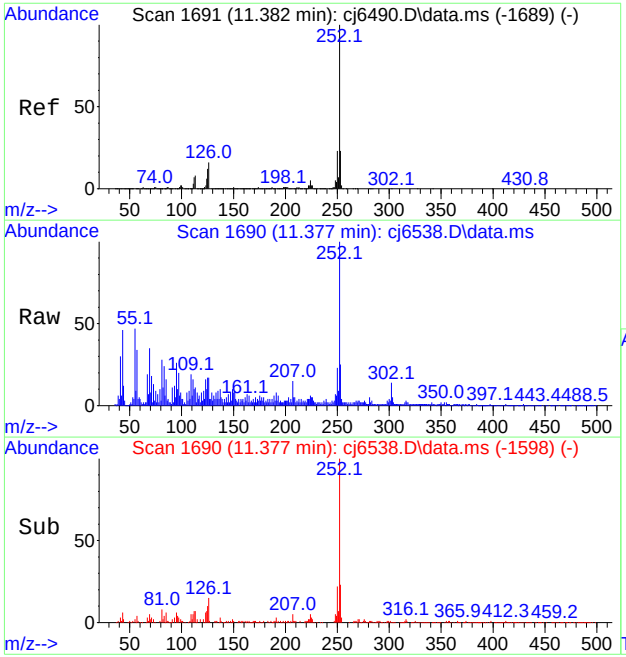


#95
Benzo[b]fluoranthene
Concen: 7.6215 ppm m
RT: 11.350 min Scan# 1685
Delta R.T. -0.005 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:252 Resp: 192968

Ion	Ratio	Lower	Upper
252	100		
253	22.8	0.0	54.7
125	16.1	0.0	44.2

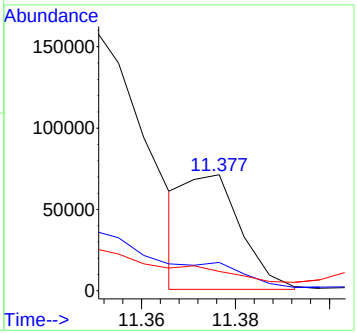


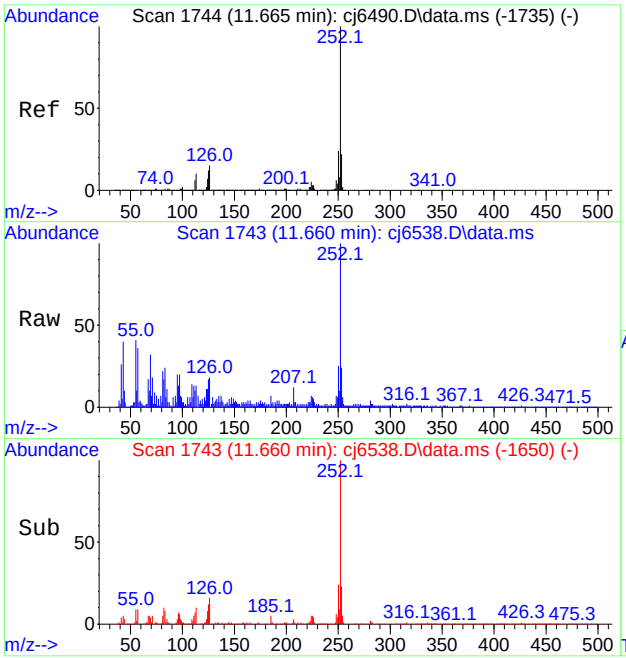


#96
Benzo[k]fluoranthene
Concen: 2.5481 ppm m
RT: 11.377 min Scan# 1690
Delta R.T. -0.005 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:252 Resp: 58053

Ion	Ratio	Lower	Upper
252	100		
253	24.5	0.0	52.6
125	16.7	0.0	42.4

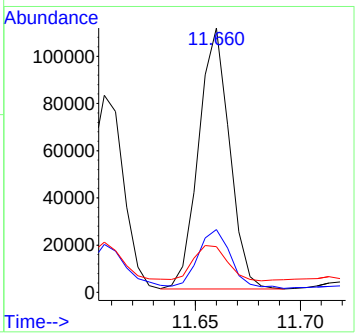


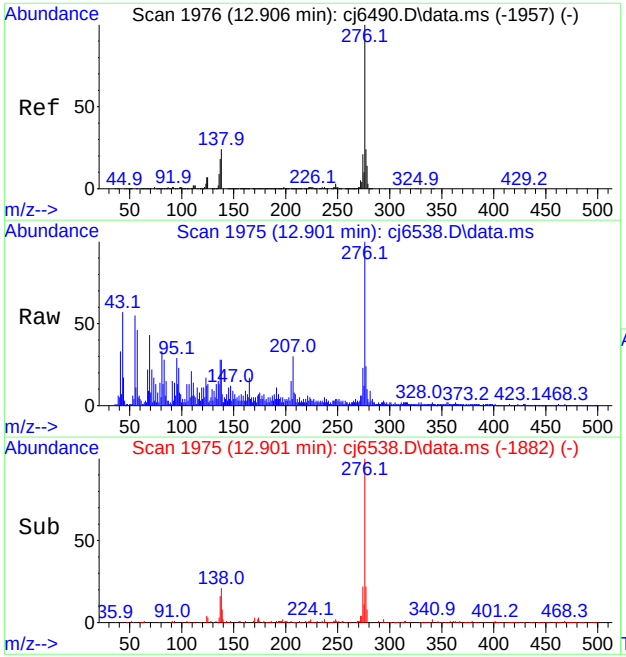


#97
Benzo[a]pyrene
Concen: 5.4217 ppm
RT: 11.660 min Scan# 1743
Delta R.T. -0.005 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:252 Resp: 113636

Ion	Ratio	Lower	Upper
252	100		
253	22.0	0.0	51.9
125	12.5	0.0	42.1

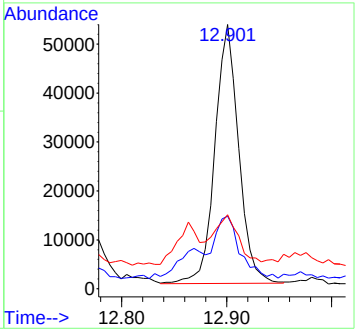


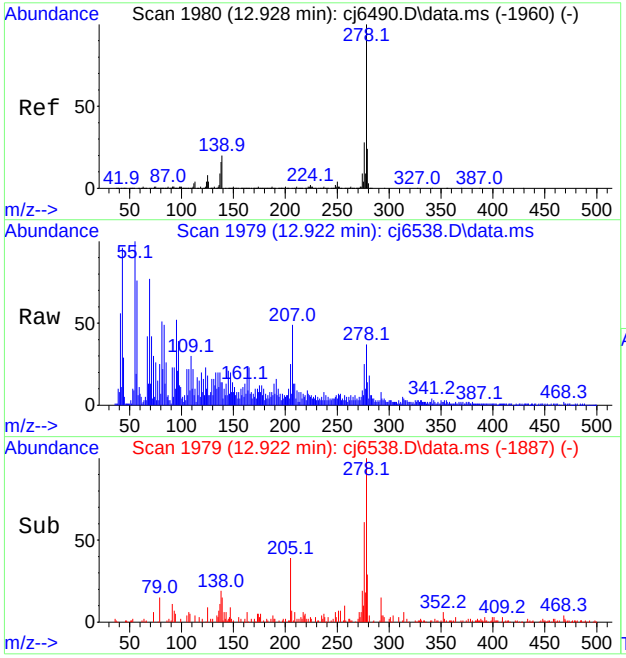


#98
Indeno[1,2,3-cd]pyrene
Concen: 3.2856 ppm
RT: 12.901 min Scan# 1975
Delta R.T. -0.005 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:276 Resp: 83252

Ion	Ratio	Lower	Upper
276	100		
138	22.9	0.0	54.2
137	17.3	0.0	47.9

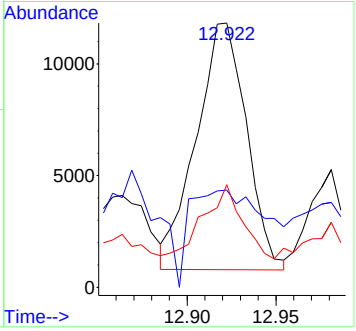


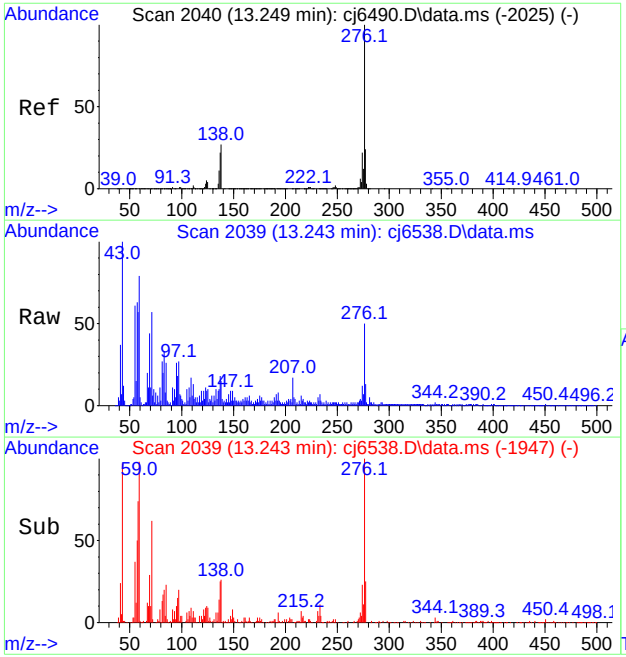


#100
Dibenz[a,h]anthracene
Concen: 1.0735 ppm
RT: 12.922 min Scan# 1979
Delta R.T. -0.006 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:278 Resp: 21735

Ion	Ratio	Lower	Upper
278	100		
139	14.0	0.0	49.8
279	29.2	0.0	54.1

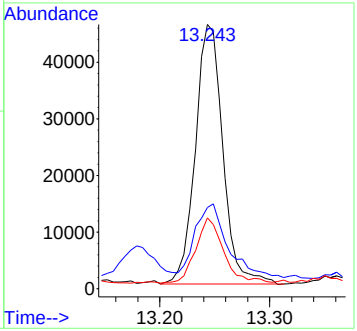


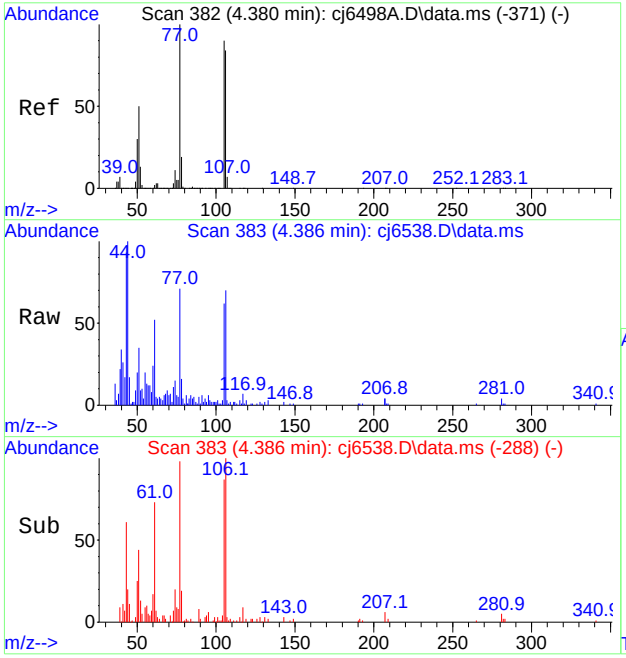


#102
Benzo[g,h,i]perylene
Concen: 4.0494 ppm
RT: 13.243 min Scan# 2039
Delta R.T. -0.006 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:276 Resp: 79736

Ion	Ratio	Lower	Upper
276	100		
138	24.9	0.0	56.7
277	24.6	0.0	54.1

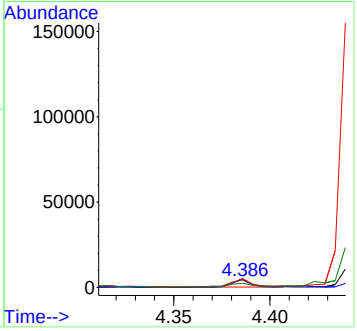




#104
Benzaldehyde
Concen: 0.3823 ppm
RT: 4.386 min Scan# 383
Delta R.T. 0.005 min
Lab File: cj6538.D
Acq: 10 May 2024 12:16 am

Tgt Ion:105 Resp: 3733

Ion	Ratio	Lower	Upper
105	100		
106	118.0	62.5	122.5
77	112.5	80.6	140.6
51	47.9	25.2	85.2



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6538.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.247	354	357	361	rVB	666780	470066	7.42%	0.368%
2	4.423	378	390	392	rBV	2142154	1539089	24.31%	1.206%
3	4.439	392	393	397	rVV	1463443	982698	15.52%	0.770%
4	4.487	397	402	404	rVV	314805	210064	3.32%	0.165%
5	4.664	431	435	440	rBV	3517257	2095325	33.10%	1.641%
6	4.760	446	453	462	rVB2	281797	276557	4.37%	0.217%
7	5.012	491	500	503	rBV	2115281	1280040	20.22%	1.003%
8	5.108	515	518	525	rBV	720263	417735	6.60%	0.327%
9	5.466	581	585	593	rVB	3823669	2634224	41.61%	2.063%
10	6.167	711	716	720	rVB	4094356	2392882	37.80%	1.874%
11	6.263	727	734	738	rBV2	329761	290517	4.59%	0.228%
12	6.595	793	796	803	rVB3	212577	201385	3.18%	0.158%
13	6.659	803	808	815	rVB	4227556	2984278	47.14%	2.338%
14	6.830	837	840	845	rVB	219151	181270	2.86%	0.142%
15	7.274	919	923	926	rVB	1405482	1093643	17.27%	0.857%
16	7.306	926	929	932	rVB2	212852	160549	2.54%	0.126%
17	7.376	940	942	950	rVB3	89743	147849	2.34%	0.116%
18	7.451	950	956	959	rBV	449900	349297	5.52%	0.274%
19	7.574	972	979	986	rBV2	691231	643278	10.16%	0.504%
20	7.632	986	990	999	rVV	345618	446919	7.06%	0.350%
21	7.836	1024	1028	1031	rBV	230962	255720	4.04%	0.200%
22	7.873	1031	1035	1041	rVB2	3640541	3199471	50.54%	2.506%
23	7.937	1045	1047	1052	rVB	242912	166754	2.63%	0.131%
24	8.076	1070	1073	1080	rVB3	364066	359714	5.68%	0.282%
25	8.226	1097	1101	1108	rBV5	93457	161379	2.55%	0.126%
26	8.338	1108	1122	1125	rBV3	565332	822763	13.00%	0.644%
27	8.371	1125	1128	1135	rVB	1506662	1409831	22.27%	1.104%
28	8.531	1151	1158	1164	rBV3	278161	335583	5.30%	0.263%
29	8.611	1169	1173	1183	rVB6	173996	272120	4.30%	0.213%
30	8.863	1217	1220	1224	rBV2	252448	229405	3.62%	0.180%
31	8.980	1238	1242	1248	rVB	960134	837268	13.23%	0.656%
32	9.044	1248	1254	1264	rBV4	477036	1047332	16.54%	0.820%
33	9.125	1264	1269	1276	rBV	748029	755393	11.93%	0.592%
34	9.194	1276	1282	1287	rBV	875428	824817	13.03%	0.646%
35	9.269	1287	1296	1300	rBV3	186141	276223	4.36%	0.216%
36	9.355	1307	1312	1319	rBV	3071851	2688736	42.47%	2.106%
37	9.419	1319	1324	1327	rBV5	165026	241633	3.82%	0.189%
38	9.446	1327	1329	1333	rVB2	226625	188343	2.97%	0.148%
39	9.590	1347	1356	1359	rBV2	597517	626839	9.90%	0.491%
40	9.622	1359	1362	1370	rVB2	300469	398957	6.30%	0.313%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.729	1370	1382	1386	rBV4	431503	681232	10.76%	0.534%
42	9.793	1386	1394	1397	rBV	689145	701720	11.08%	0.550%
43	9.831	1397	1401	1408	rVB3	647351	732493	11.57%	0.574%
44	9.943	1415	1422	1428	rBV6	226949	461470	7.29%	0.361%
45	10.071	1438	1446	1449	rBV	1369244	1199221	18.94%	0.939%
46	10.168	1458	1464	1467	rBV3	238654	283571	4.48%	0.222%
47	10.269	1479	1483	1490	rBV2	1633171	1896428	29.96%	1.486%
48	10.366	1491	1501	1504	rVV	3112570	3161772	49.94%	2.477%
49	10.403	1504	1508	1513	rVB3	579701	822882	13.00%	0.645%
50	10.499	1521	1526	1533	rBV2	2428274	2763859	43.66%	2.165%
51	10.596	1537	1544	1553	rVV5	332009	832414	13.15%	0.652%
52	10.681	1557	1560	1564	rBV	361379	369808	5.84%	0.290%
53	10.719	1564	1567	1570	rVV	282783	270838	4.28%	0.212%
54	10.810	1576	1584	1593	rBV3	785157	1465832	23.15%	1.148%
55	10.906	1593	1602	1609	rVV	3117687	3520926	55.61%	2.758%
56	10.959	1609	1612	1618	rVV5	140122	290469	4.59%	0.228%
57	11.050	1622	1629	1635	rVV4	256651	461928	7.30%	0.362%
58	11.114	1635	1641	1653	rVV	2179926	3213804	50.76%	2.517%
59	11.211	1653	1659	1666	rVV2	1201461	2047964	32.35%	1.604%
60	11.264	1666	1669	1673	rVV2	282940	390710	6.17%	0.306%
61	11.334	1678	1682	1693	rVV2	763278	1692499	26.73%	1.326%
62	11.419	1693	1698	1709	rVV	2231691	3412316	53.90%	2.673%
63	11.521	1709	1717	1724	rVV3	3573269	6330920	100.00%	4.959%
64	11.580	1724	1728	1730	rVV2	266699	435305	6.88%	0.341%
65	11.607	1730	1733	1737	rVV	402275	521621	8.24%	0.409%
66	11.655	1737	1742	1749	rVB2	491394	631862	9.98%	0.495%
67	11.719	1749	1754	1757	rBV	2457364	2536468	40.06%	1.987%
68	11.756	1757	1761	1767	rVV2	684033	964729	15.24%	0.756%
69	11.842	1768	1777	1779	rVV	395074	569147	8.99%	0.446%
70	11.874	1779	1783	1787	rVV3	500512	837241	13.22%	0.656%
71	11.922	1787	1792	1795	rVV2	188510	391798	6.19%	0.307%
72	11.949	1795	1797	1800	rVV4	124664	172211	2.72%	0.135%
73	12.008	1801	1808	1820	rVB	1352797	2247397	35.50%	1.760%
74	12.125	1820	1830	1837	rBV5	322636	820159	12.95%	0.642%
75	12.216	1840	1847	1851	rBV	3949168	6190067	97.78%	4.849%
76	12.248	1851	1853	1862	rVV	2775500	3877505	61.25%	3.037%
77	12.313	1862	1865	1872	rVB	279715	358148	5.66%	0.281%
78	12.409	1879	1883	1888	rVB2	343867	437315	6.91%	0.343%
79	12.484	1889	1897	1902	rVB4	329481	494887	7.82%	0.388%
80	12.537	1902	1907	1915	rVB	521770	839049	13.25%	0.657%
81	12.633	1918	1925	1928	rBV2	319417	522232	8.25%	0.409%
82	12.676	1928	1933	1942	rVB5	511728	900806	14.23%	0.706%
83	12.756	1942	1948	1956	rVB7	170068	377574	5.96%	0.296%
84	12.863	1956	1968	1979	rBV3	1258724	2597648	41.03%	2.035%
85	12.965	1979	1987	1993	rBV4	617562	1271130	20.08%	0.996%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	13.040	1998	2001	2006	rVV7	111235	190744	3.01%	0.149%
87	13.115	2006	2015	2021	rVV3	1418974	3797703	59.99%	2.975%
88	13.179	2021	2027	2035	rVV	2278996	4426798	69.92%	3.468%
89	13.259	2035	2042	2053	rVB3	1045183	2368526	37.41%	1.855%
90	13.430	2061	2074	2082	rBV	2951433	6279529	99.19%	4.919%
91	13.505	2082	2088	2092	rVV4	531128	1102074	17.41%	0.863%
92	13.564	2092	2099	2114	rVV8	443612	1900602	30.02%	1.489%
93	13.676	2114	2120	2124	rVV7	222737	470540	7.43%	0.369%
94	13.741	2124	2132	2141	rVV9	276799	975955	15.42%	0.764%
95	13.853	2142	2153	2162	rVB8	219349	804606	12.71%	0.630%
96	13.981	2168	2177	2182	rVV2	460852	1099466	17.37%	0.861%
97	14.040	2182	2188	2200	rVB6	643119	1558658	24.62%	1.221%
98	14.227	2213	2223	2233	rBV2	765421	1720921	27.18%	1.348%
99	14.329	2235	2242	2253	rVB2	174664	545325	8.61%	0.427%
100	14.436	2253	2262	2269	rBV2	605145	1523393	24.06%	1.193%

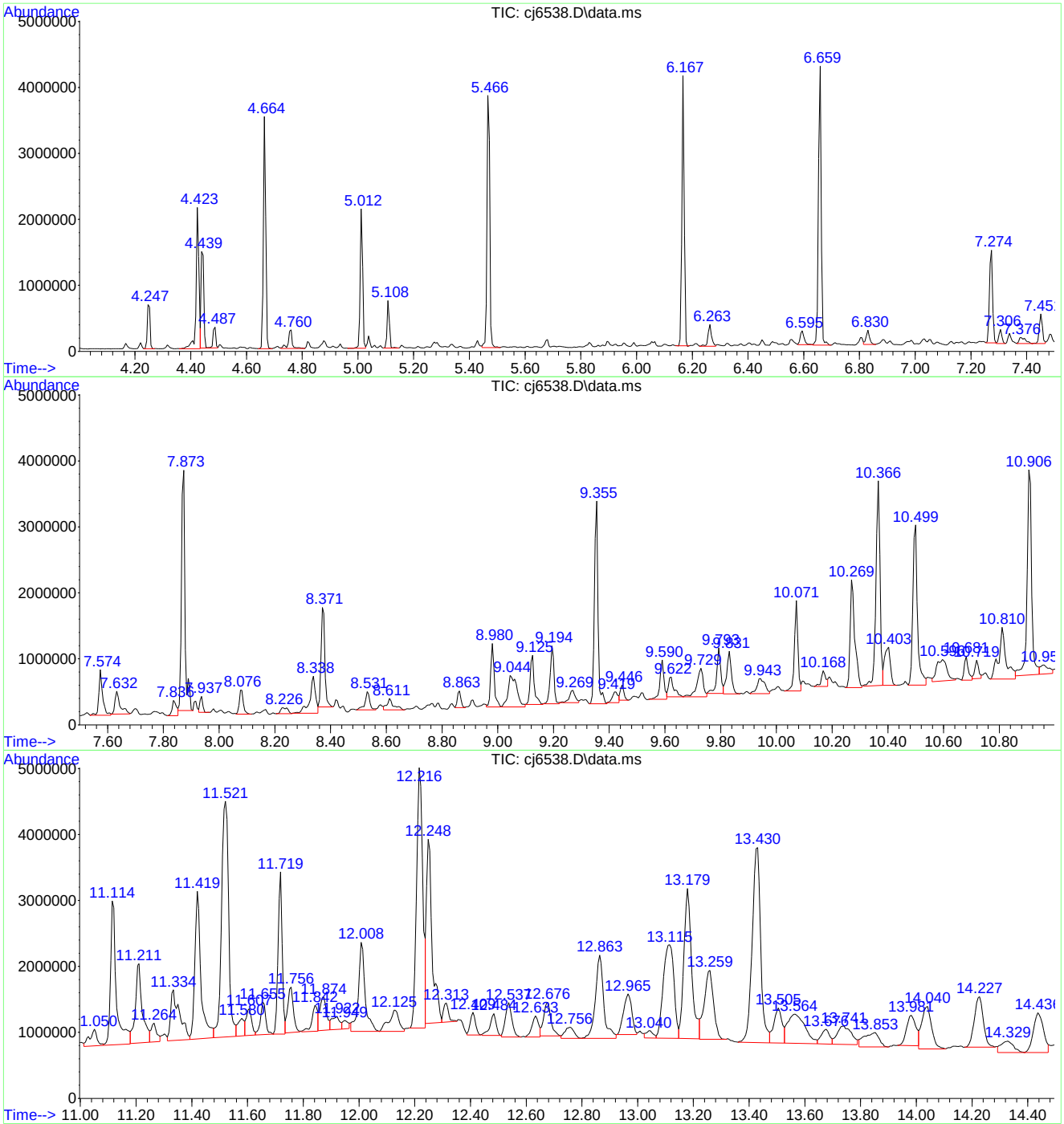
Sum of corrected areas: 127660161

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

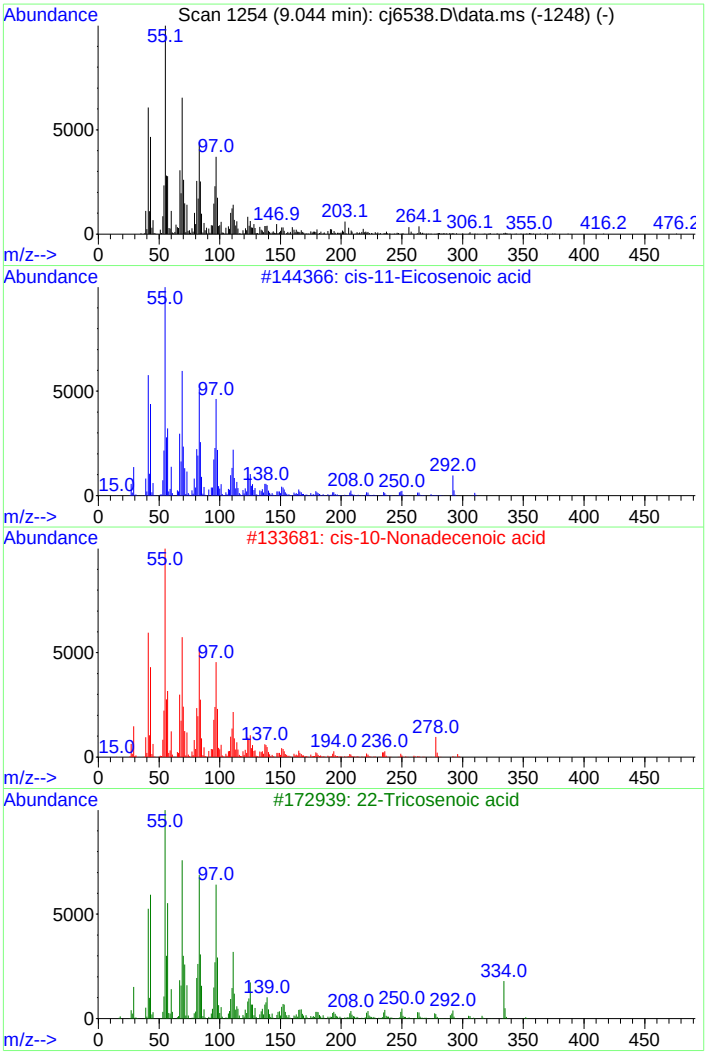
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

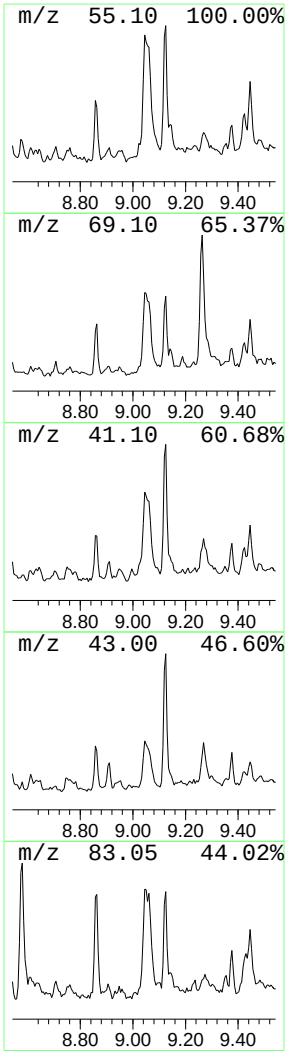
****

Peak Number 1 Unknown acid Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.044	13.09 ppm	1047330	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	cis-11-Eicosenoic acid	310	C20H38O2	005561-99-9	94
2	cis-10-Nonadecenoic acid	296	C19H36O2	073033-09-7	91
3	22-Tricosenoic acid	352	C23H44O2	065119-95-1	91
4	cis-Vaccenic acid	282	C18H34O2	000506-17-2	91
5	6-Octadecenoic acid, (Z)-	282	C18H34O2	000593-39-5	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

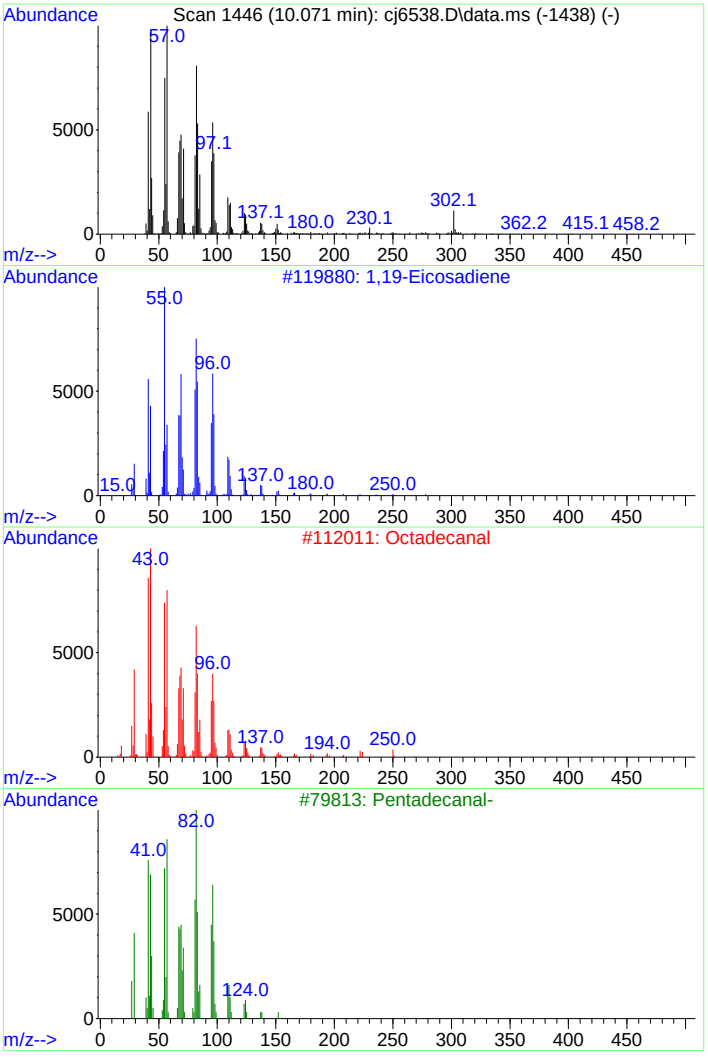
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

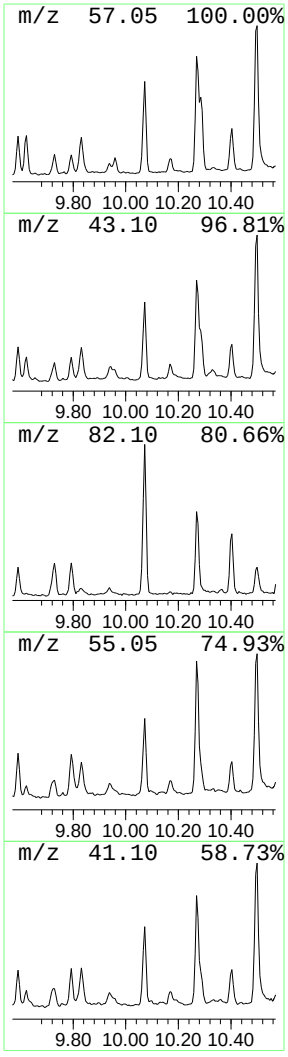
****

Peak Number 2 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.071	15.17 ppm	1199220	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,19-Eicosadiene	278	C20H38	014811-95-1	95
2	Octadecanal	268	C18H36O	000638-66-4	94
3	Pentadecanal-	226	C15H30O	002765-11-9	90
4	Octadecanal	268	C18H36O	000638-66-4	90
5	Oxirane, tridecyl-	226	C15H30O	018633-25-5	89





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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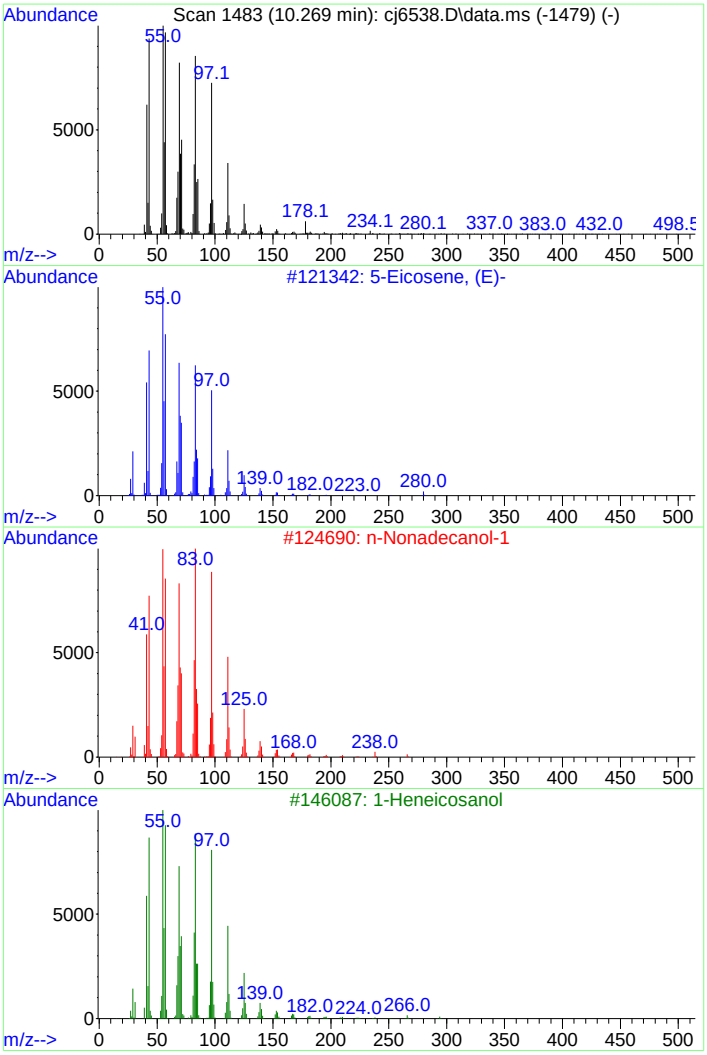
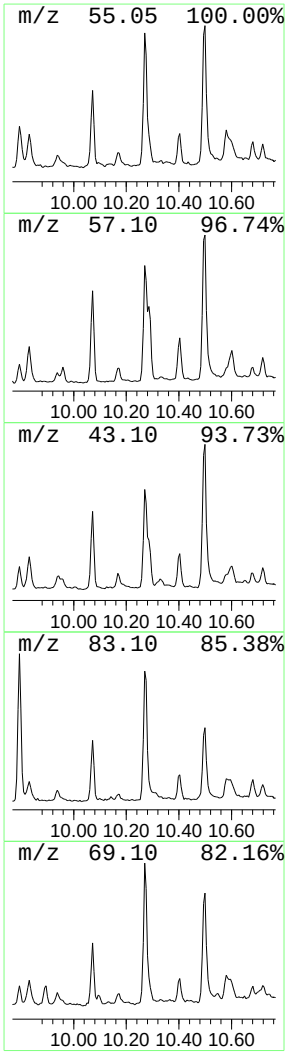
Peak Number 3 Unknown Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.269	23.99 ppm	1896430	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Eicosene, (E)-	280	C20H40	074685-30-6	99
2	n-Nonadecanol-1	284	C19H40O	001454-84-8	94
3	1-Heneicosanol	312	C21H44O	015594-90-8	94
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
5	9-Eicosene, (E)-	280	C20H40	074685-29-3	91





Library Search Compound Report

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Sample : jd87833-1
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ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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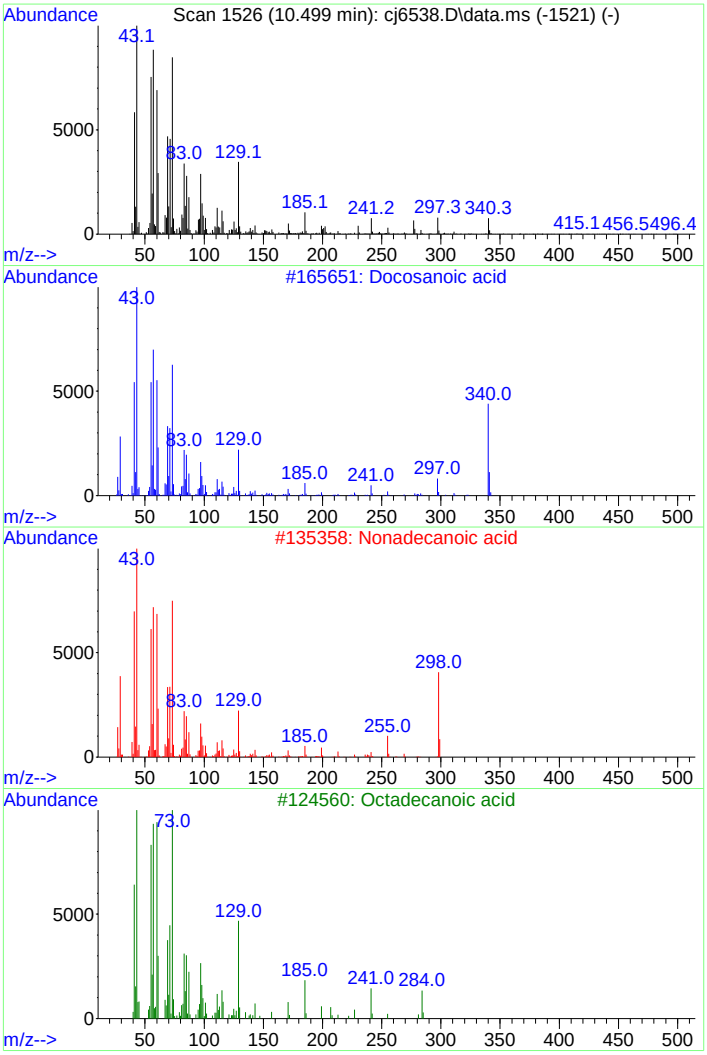
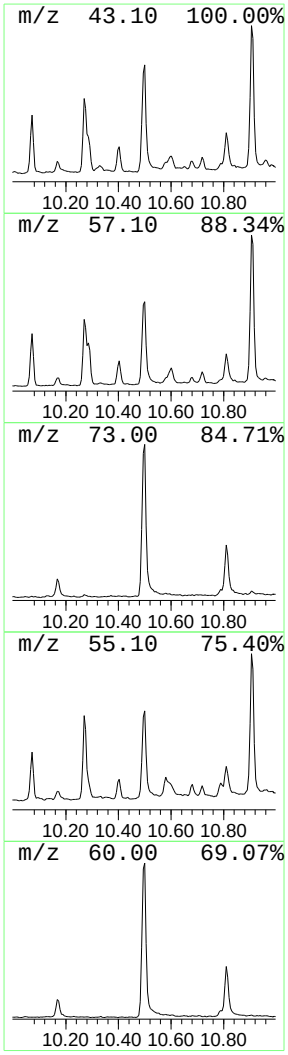
Peak Number 4 Docosanoic acid Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.499	34.97 ppm	2763860	Chrysene-d12a	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosanoic acid	340	C22H44O2	000112-85-6	99
2	Nonadecanoic acid	298	C19H38O2	000646-30-0	93
3	Octadecanoic acid	284	C18H36O2	000057-11-4	90
4	n-Decanoic acid	172	C10H20O2	000334-48-5	62
5	Octatriacontyl pentafluoropropio...	697	C41H77F5O2	1000351-89-1	38





Library Search Compound Report

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Sample : jd87833-1
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ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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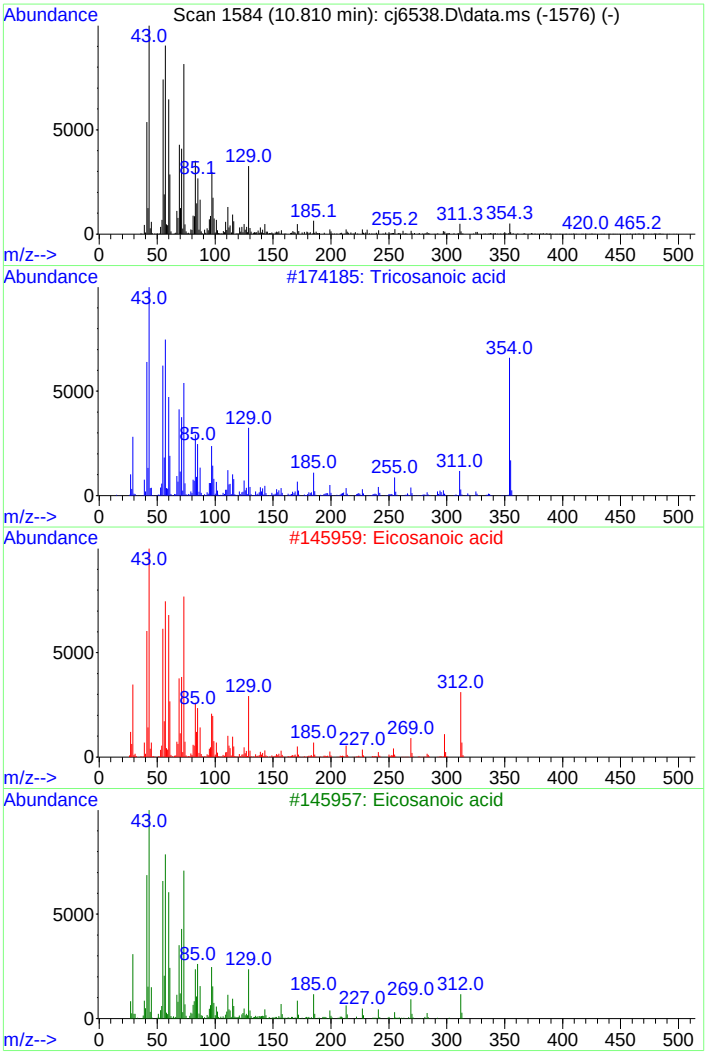
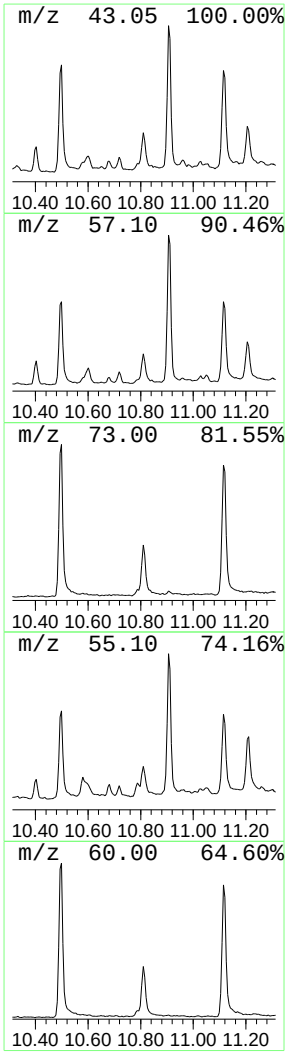
Peak Number 5 Unknown acid Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.810	18.54 ppm	1465830	Chrysene-d12a	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricosanoic acid	354	C23H46O2	002433-96-7	93
2	Eicosanoic acid	312	C20H40O2	000506-30-9	93
3	Eicosanoic acid	312	C20H40O2	000506-30-9	91
4	Octadecanoic acid	284	C18H36O2	000057-11-4	90
5	n-Decanoic acid	172	C10H20O2	000334-48-5	58





Library Search Compound Report

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Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
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Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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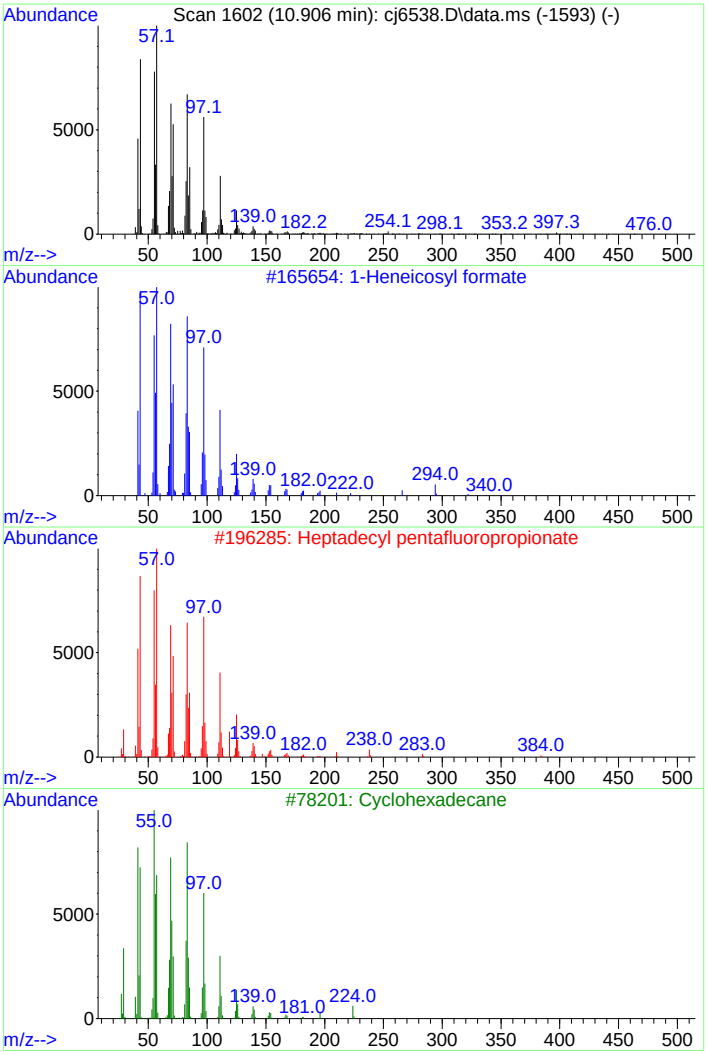
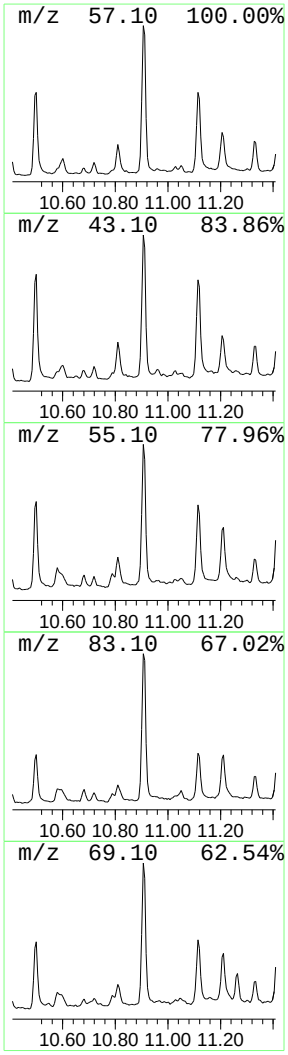
Peak Number 6 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.906	44.54 ppm	3520930	Chrysene-d12a	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosyl formate	340	C22H44O2	077899-03-7	97
2	Heptadecyl pentafluoropropionate	402	C20H35F5O2	1000351-80-6	94
3	Cyclohexadecane	224	C16H32	000295-65-8	93
4	Nonadecyl trifluoroacetate	380	C21H39F3O2	1000351-76-3	91
5	Docosyl trifluoroacetate	422	C24H45F3O2	1000351-75-5	91





Library Search Compound Report

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Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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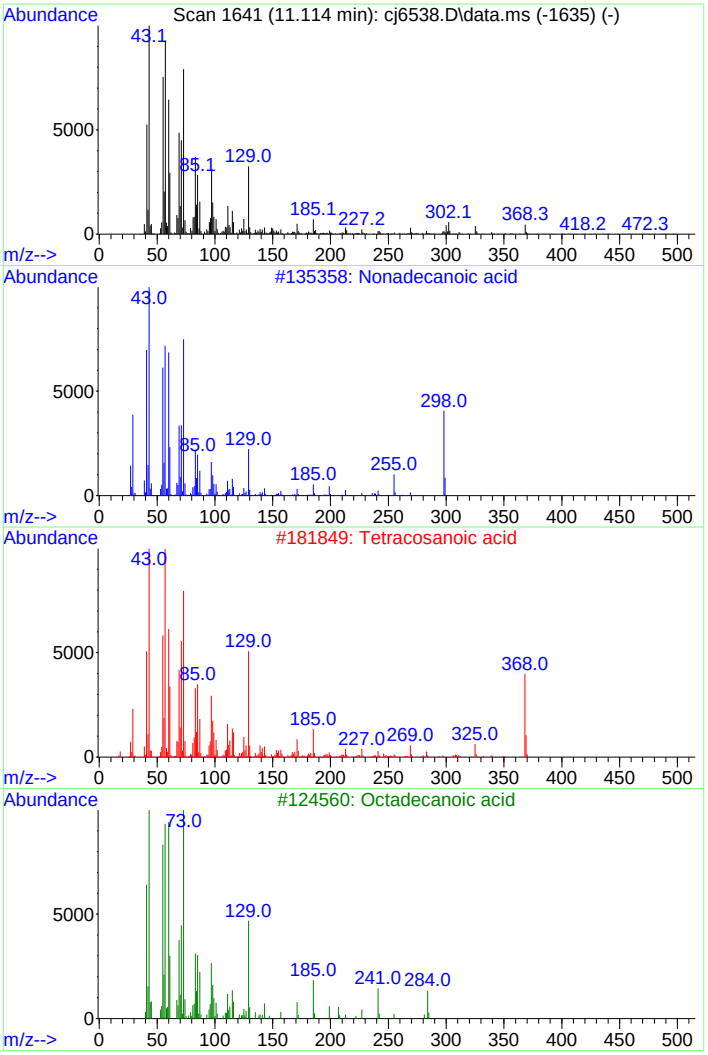
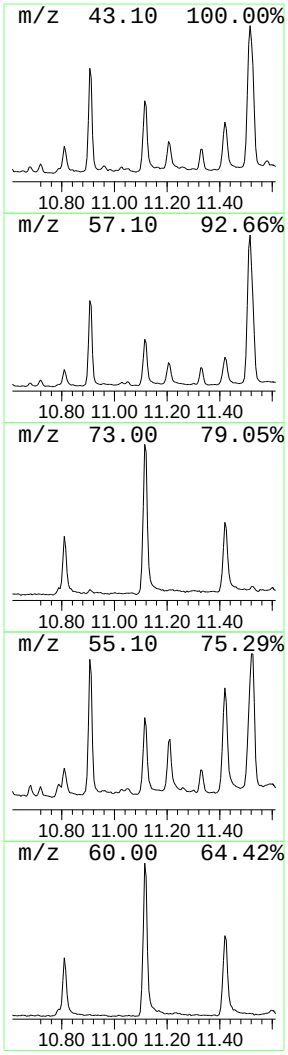
Peak Number 7 Unknown acid Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.114	50.68 ppm	3213800	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecanoic acid	298	C19H38O2	000646-30-0	91
2	Tetracosanoic acid	368	C24H48O2	000557-59-5	76
3	Octadecanoic acid	284	C18H36O2	000057-11-4	68
4	1-Pentadecanol acetate	270	C17H34O2	000629-58-3	42
5	Oxalic acid, allyl octadecyl ester	382	C23H42O4	1000309-24-5	42





Library Search Compound Report

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Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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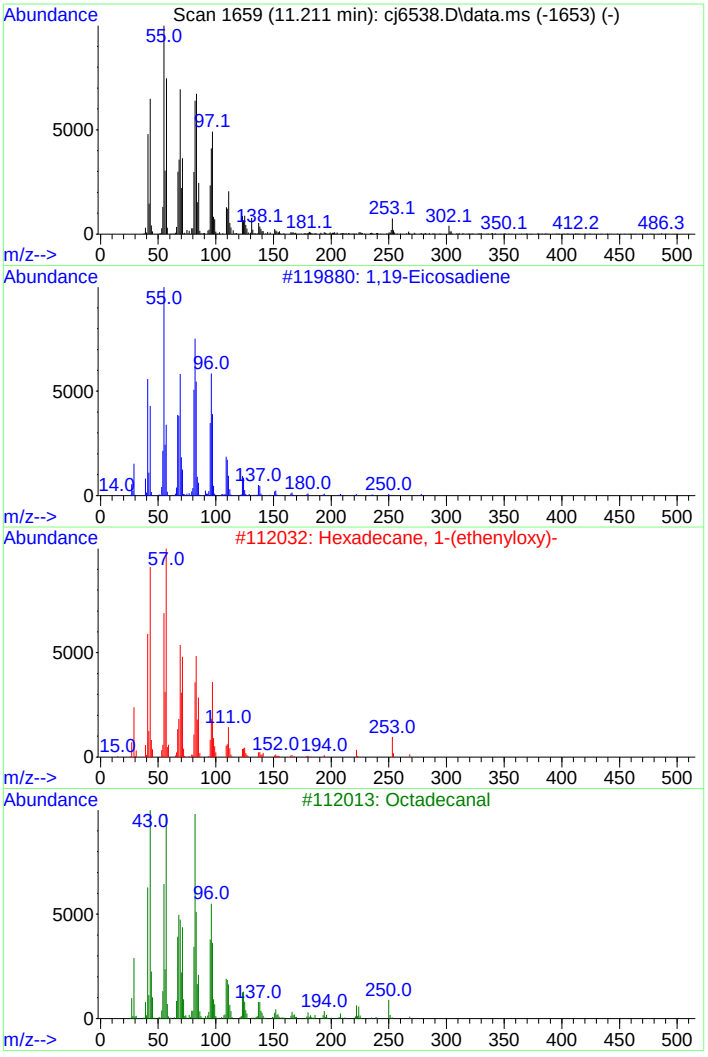
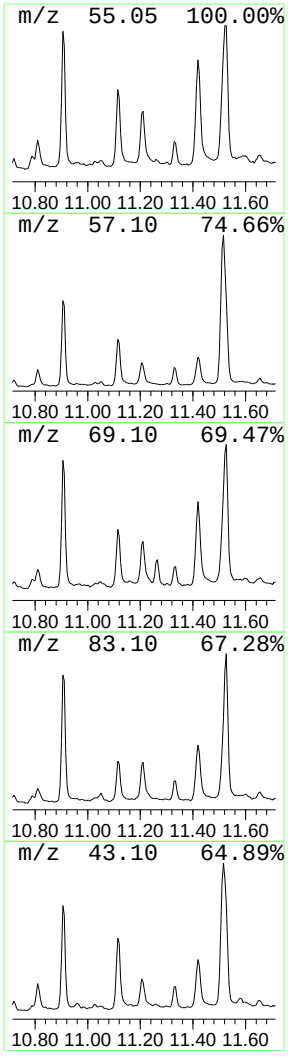
Peak Number 8 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.211	32.30 ppm	2047960	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,19-Eicosadiene	278	C20H38	014811-95-1	96
2	Hexadecane, 1-(ethenyloxy)-	268	C18H36O	000822-28-6	89
3	Octadecanal	268	C18H36O	000638-66-4	83
4	Z-2-Octadecen-1-ol	268	C18H36O	1000131-11-0	83
5	Cyclododecanemethanol	198	C13H26O	001892-12-2	74





Library Search Compound Report

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Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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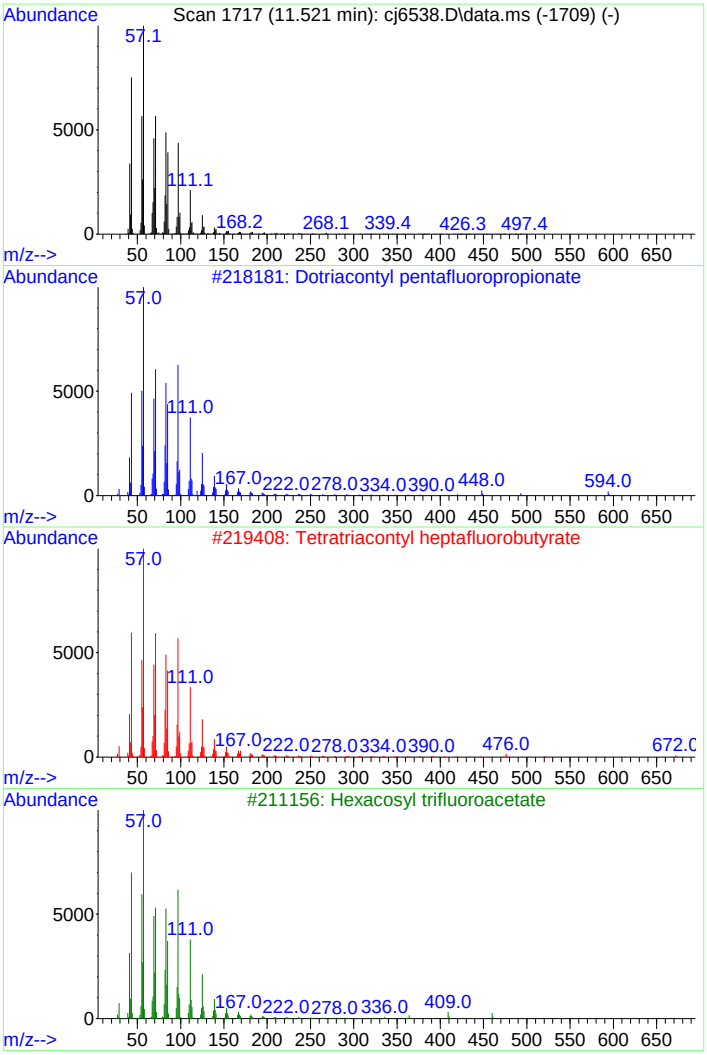
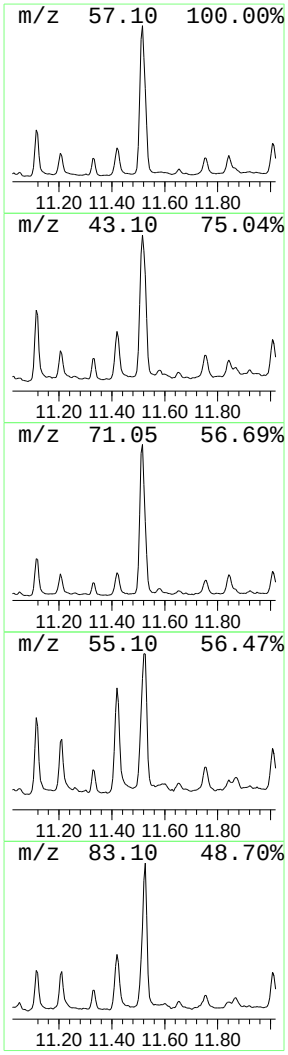
Peak Number 9 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.521	99.84 ppm	6330920	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dotriacontyl pentafluoropropionate	612	C35H65F5O2	1000351-81-4	91
2	Tetratriacontyl heptafluorobutyrate	691	C38H69F7O2	1000351-84-1	90
3	Hexacosyl trifluoroacetate	478	C28H53F3O2	1000351-75-0	87
4	Oxalic acid, isobutyl pentadecyl...	356	C21H40O4	1000309-38-0	87
5	Oxalic acid, isobutyl hexadecyl ...	370	C22H42O4	1000309-38-1	87





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Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
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Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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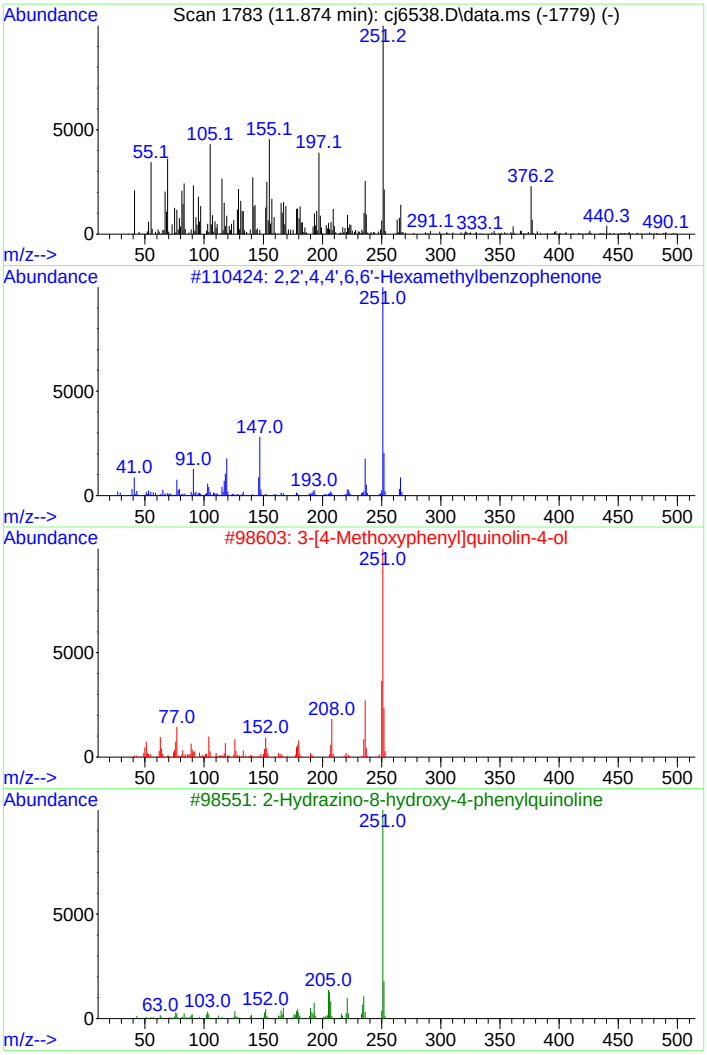
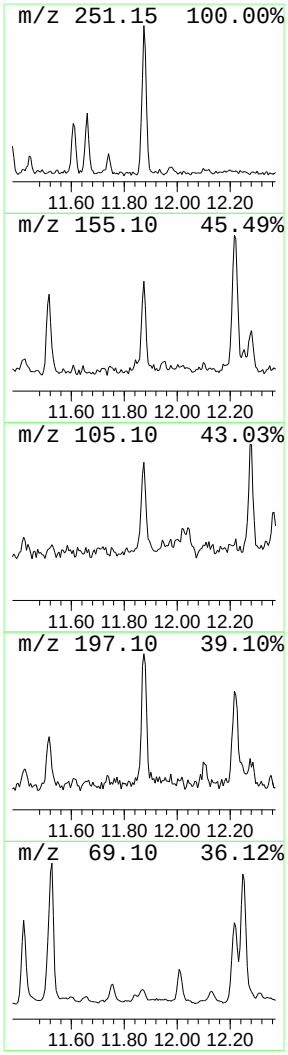
Peak Number 10 Unknown Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.874	13.20 ppm	837241	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2',4,4',6,6'-Hexamethylbenzoph...	266	C19H22O	005623-45-0	50
2	3-[4-Methoxyphenyl]quinolin-4-ol	251	C16H13NO2	1000254-66-9	45
3	2-Hydrazino-8-hydroxy-4-phenylqu...	251	C15H13N3O	104926-85-4	42
4	Ethyl 2-cyano-trans-3-(2-naphthy...	251	C16H13NO2	029708-01-8	30
5	6-(2-Imino-3-oxazolidinyl)-N,N,N...	251	C10H17N7O	087166-33-4	30





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Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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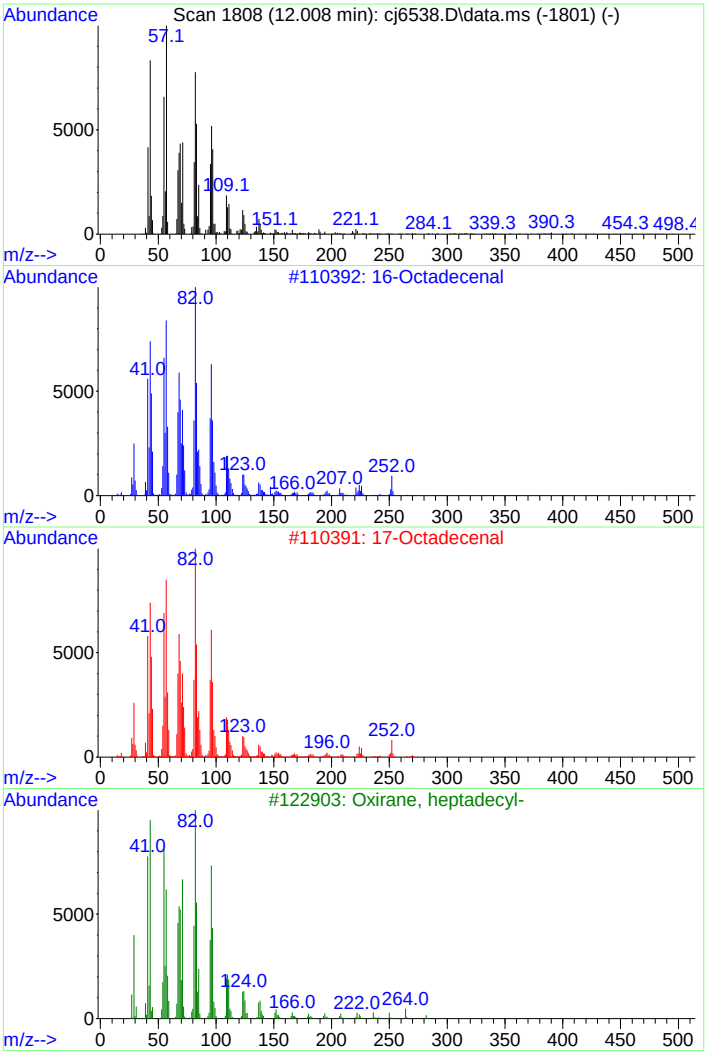
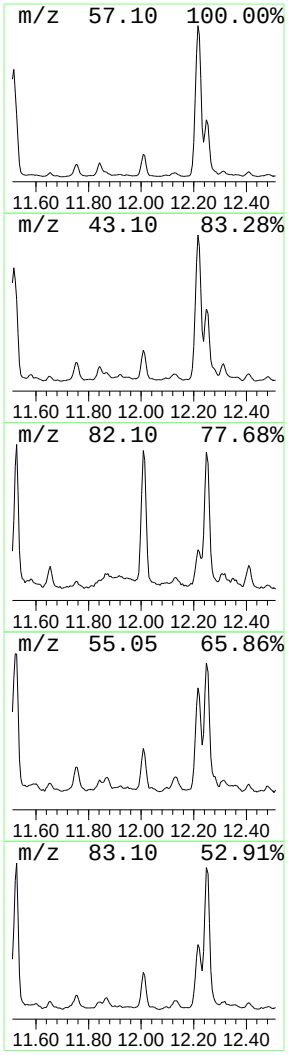
Peak Number 11 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.008	35.44 ppm	2247400	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	16-Octadecenal	266	C18H34O	056554-87-1	91
2	17-Octadecenal	266	C18H34O	056554-86-0	91
3	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	87
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	87
5	Octadecanal	268	C18H36O	000638-66-4	87





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Acq On : 10 May 2024 12:16 am
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Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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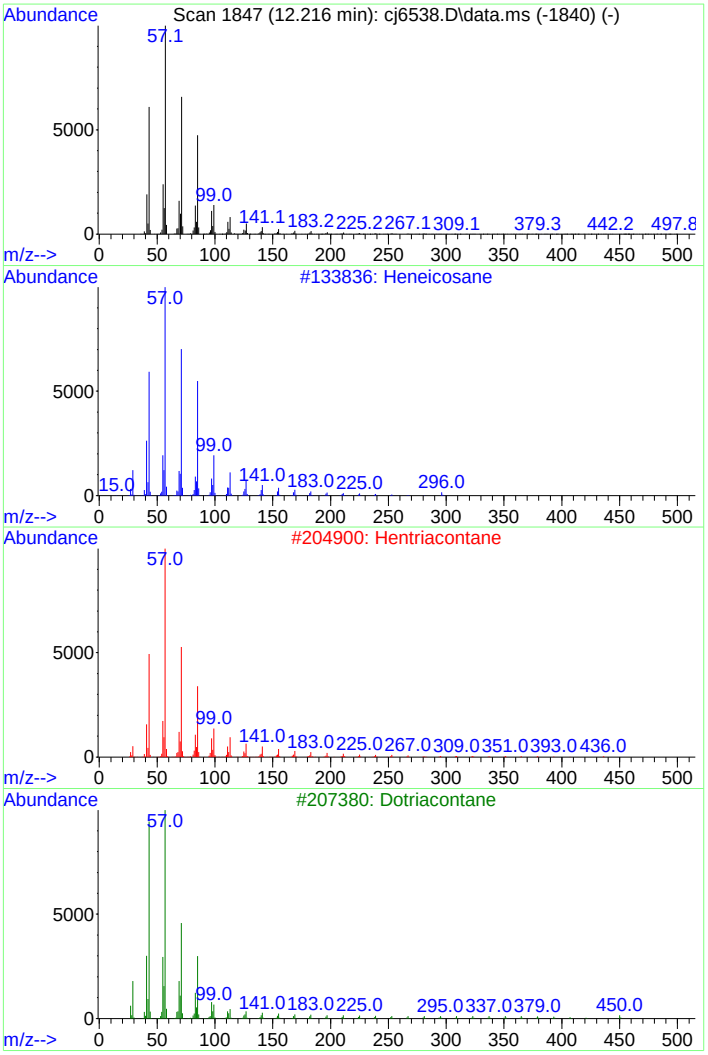
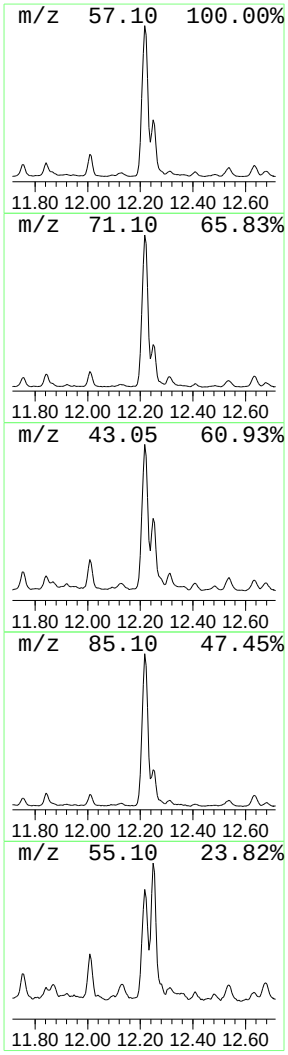
Peak Number 12 Alkane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.216	97.62 ppm	6190070	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	97
2	Hentriacontane	437	C31H64	000630-04-6	95
3	Dotriacontane	451	C32H66	000544-85-4	93
4	Octacosane	394	C28H58	000630-02-4	91
5	Tetracosane	338	C24H50	000646-31-1	86





Library Search Compound Report

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Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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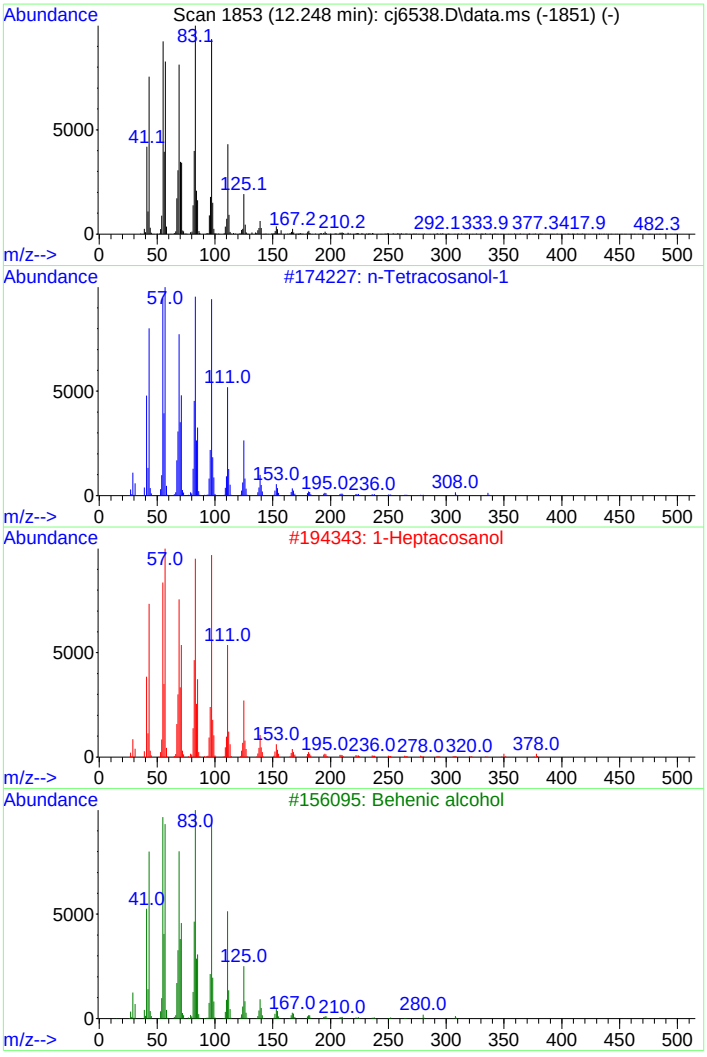
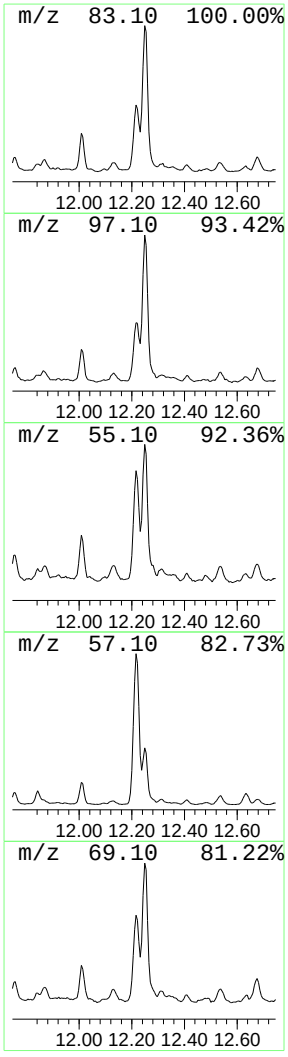
Peak Number 13 Unknown alcohol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.248	61.15 ppm	3877510	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Tetracosanol-1	354	C24H50O	000506-51-4	91
2	1-Heptacosanol	396	C27H56O	002004-39-9	91
3	Behenic alcohol	326	C22H46O	000661-19-8	90
4	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	86
5	n-Heptadecanol-1	256	C17H36O	001454-85-9	62





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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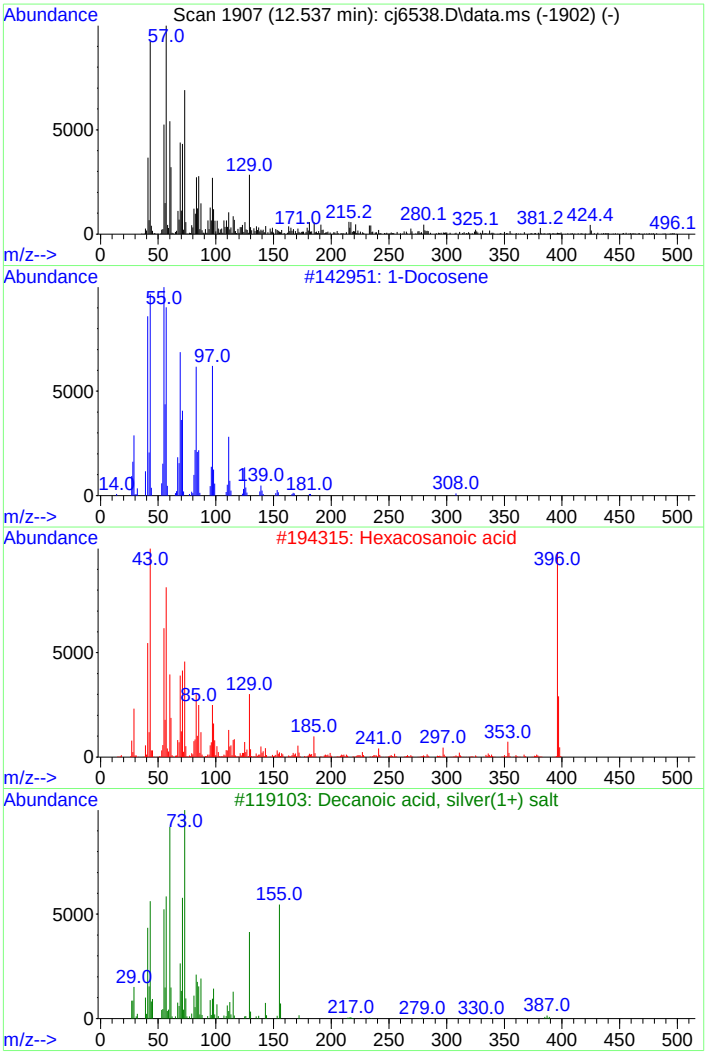
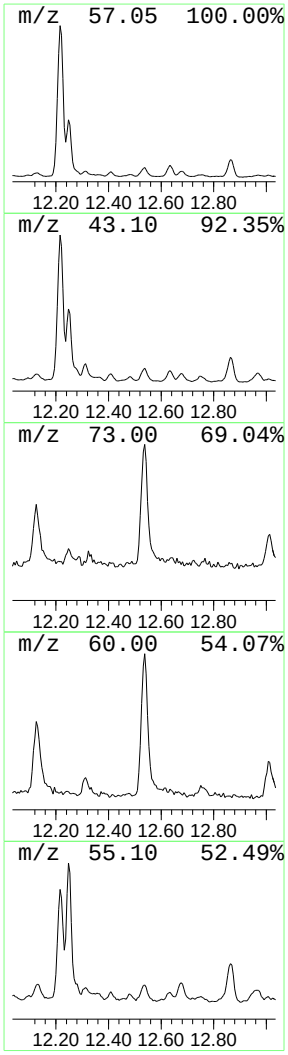
Peak Number 14 Unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.537	13.23 ppm	839049	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	59
2	Hexacosanoic acid	396	C26H52O2	000506-46-7	58
3	Decanoic acid, silver(1+) salt	278	C10H19AgO2	013126-67-5	52
4	Octadecanoic acid	284	C18H36O2	000057-11-4	49
5	Eicosane, 9-cyclohexyl-	364	C26H52	004443-61-2	46





Library Search Compound Report

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Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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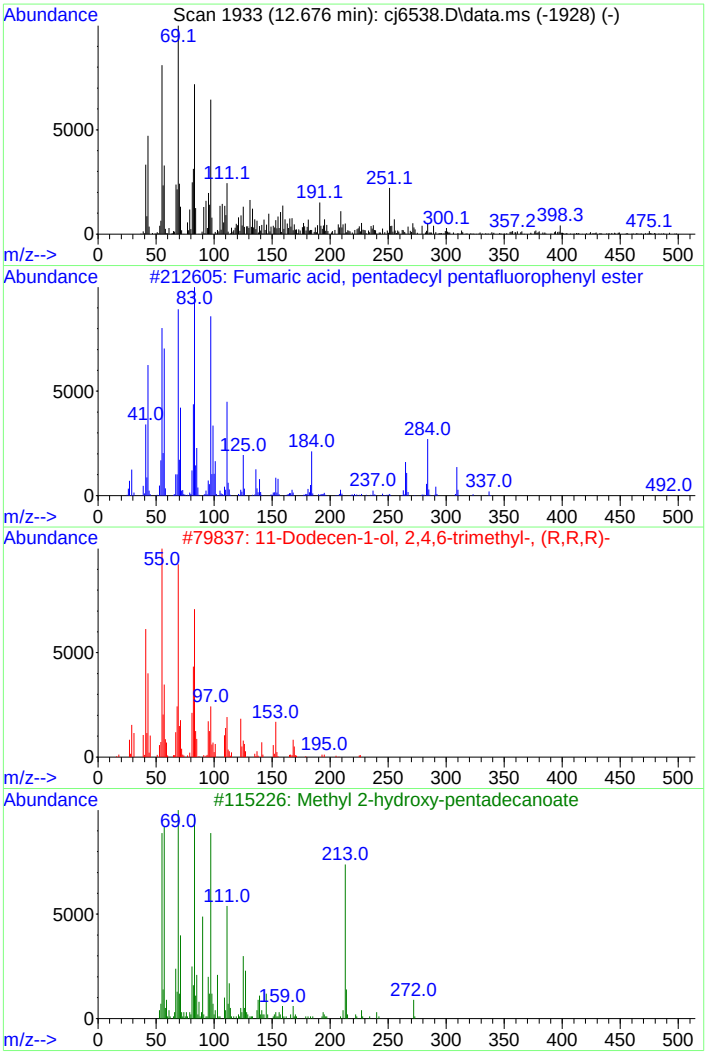
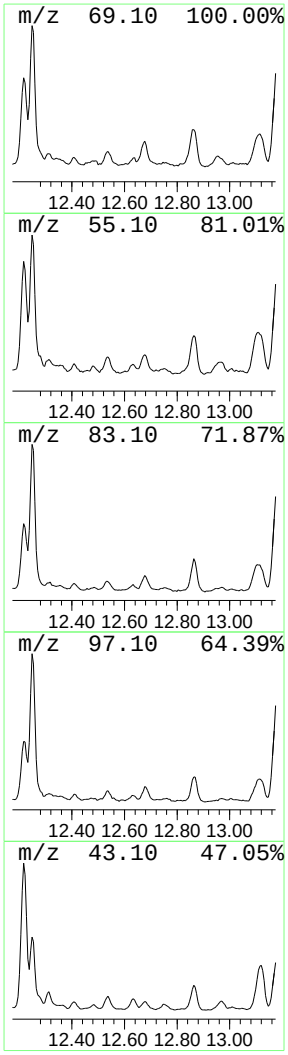
Peak Number 15 Unknown Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.676	14.21 ppm	900806	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fumaric acid, pentadecyl pentafl...	492	C25H33F5O4	1000348-10-7	89
2	11-Dodecen-1-ol, 2,4,6-trimethyl...	226	C15H30O	027829-54-5	86
3	Methyl 2-hydroxy-pentadecanoate	272	C16H32O3	1000336-35-7	72
4	9-Octadecene, (E)-	252	C18H36	007206-25-9	64
5	Dodecyl trifluoroacetate	282	C14H25F3O2	1000351-74-5	64





Library Search Compound Report

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Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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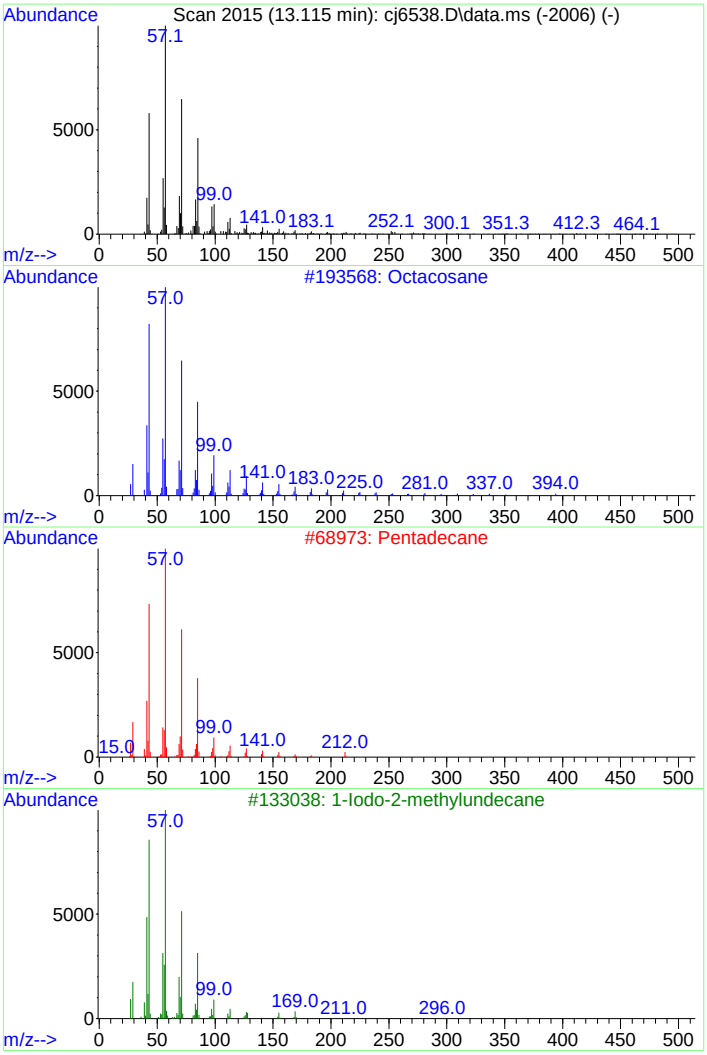
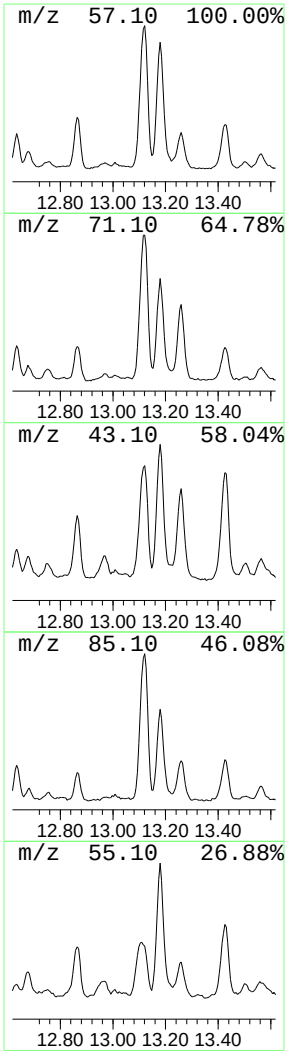
Peak Number 16 Alkane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.115	59.89 ppm	3797700	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	96
2	Pentadecane	212	C15H32	000629-62-9	95
3	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	91
4	Sulfurous acid, butyl tetradecyl...	334	C18H38O3S	1000309-18-1	90
5	Hexacosane	366	C26H54	000630-01-3	86





Library Search Compound Report

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Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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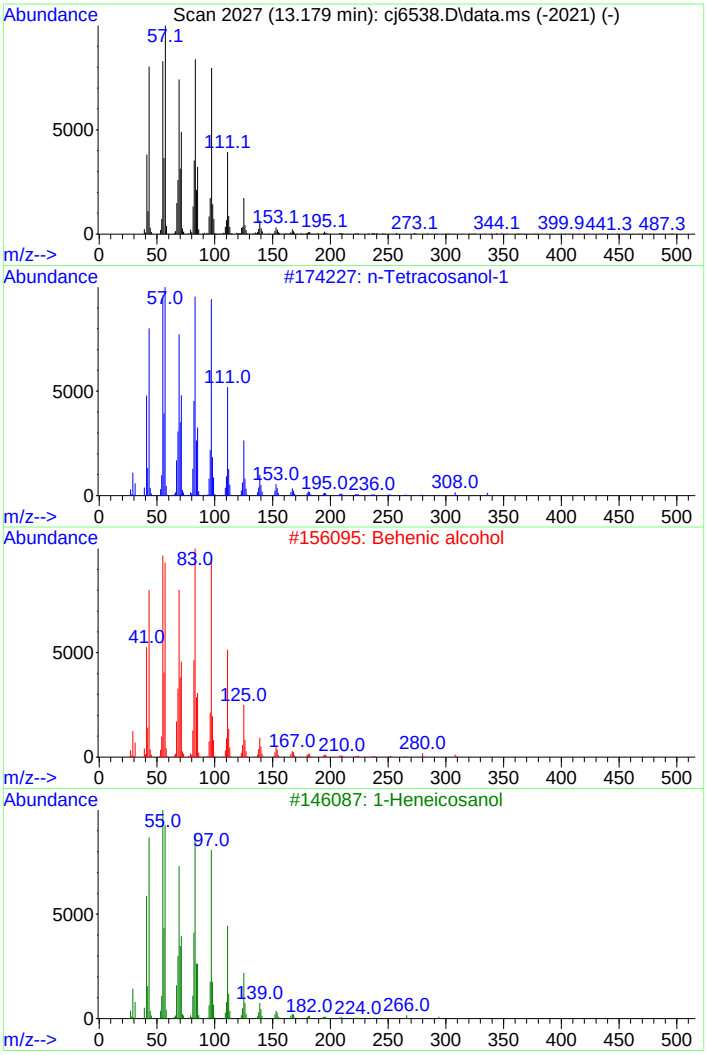
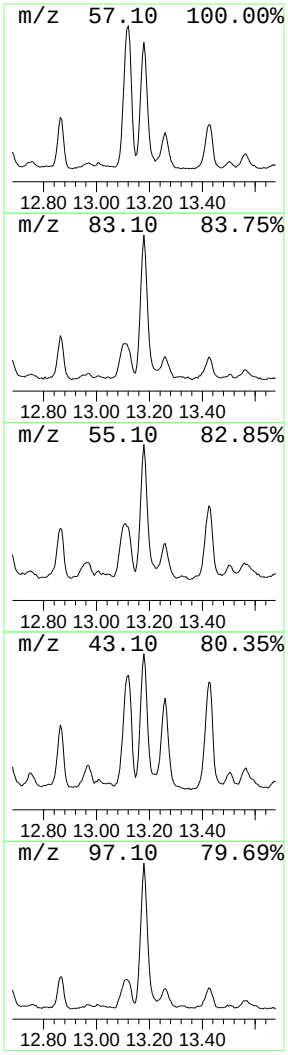
Peak Number 17 Unknown alcohol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.179	69.81 ppm	4426800	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
2	Behenic alcohol	326	C22H46O	000661-19-8	94
3	1-Heneicosanol	312	C21H44O	015594-90-8	91
4	Cyclopentadecane	210	C15H30	000295-48-7	90
5	Pentafluoropropionic acid, tetra...	360	C17H29F5O2	006222-06-6	87





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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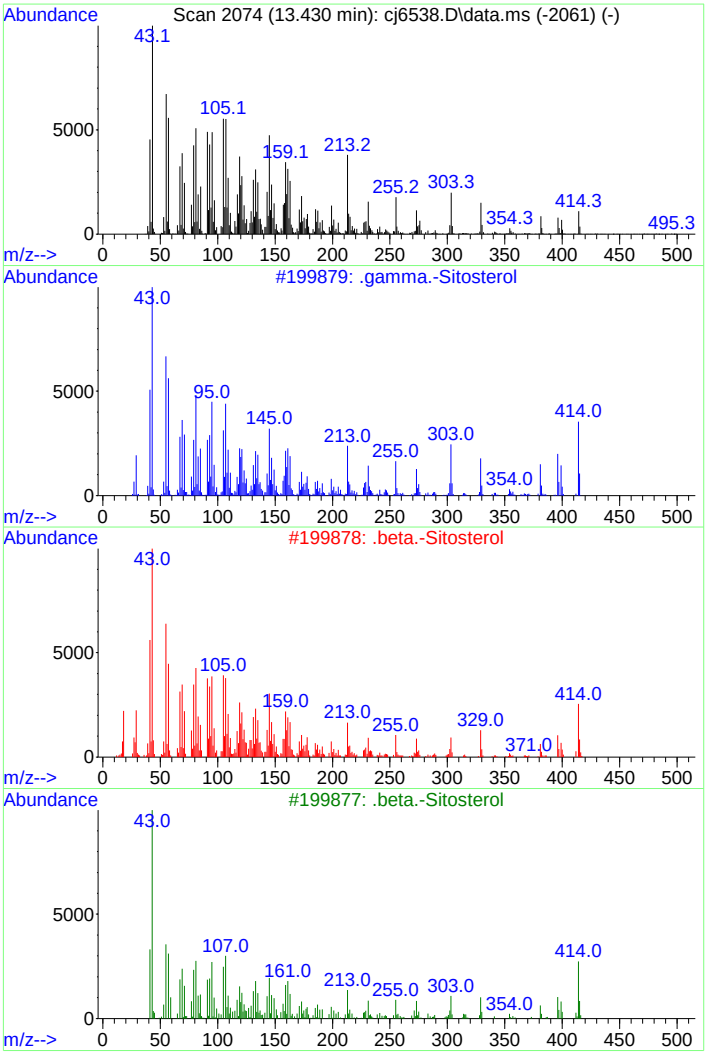
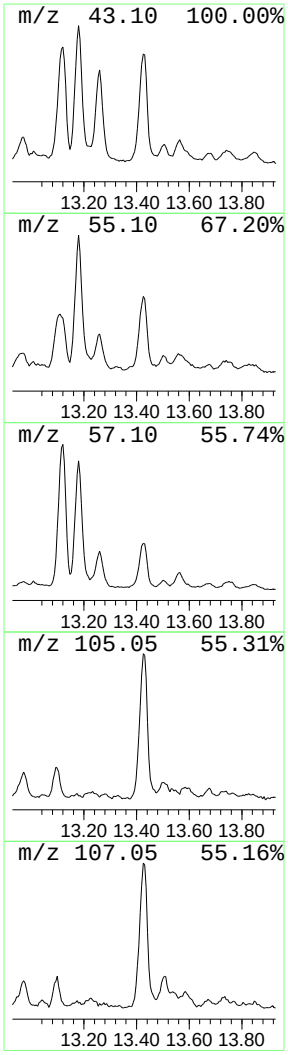
Peak Number 18 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.430	99.03 ppm	6279530	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	93
4	.gamma.-Sitosterol	414	C29H50O	000083-47-6	91
5	Campesterol	400	C28H48O	000474-62-4	62





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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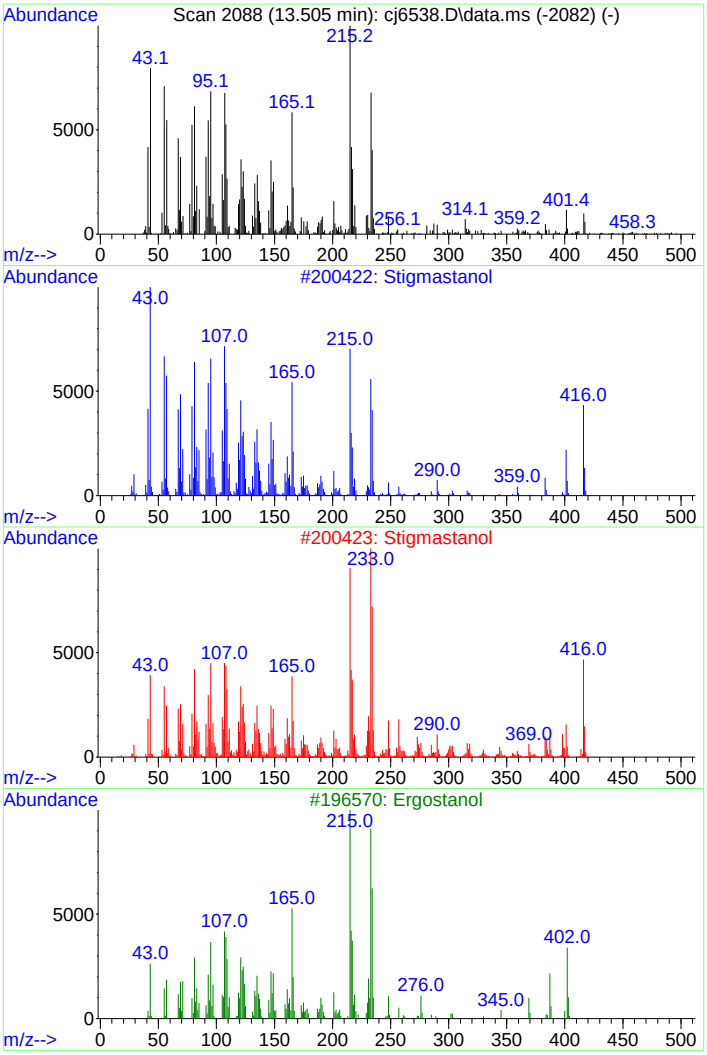
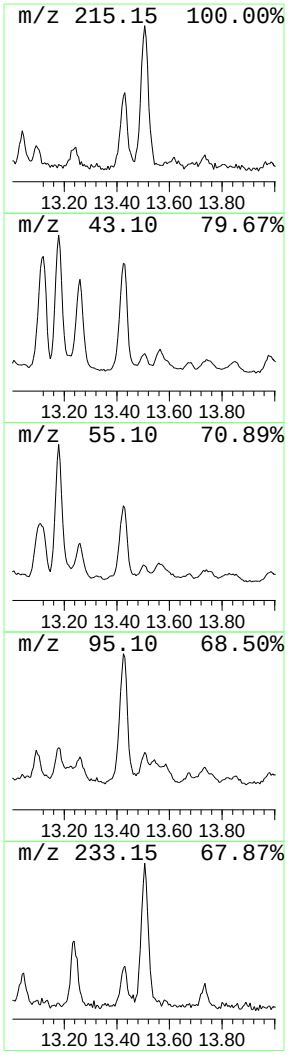
Peak Number 19 Unknown Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.505	17.38 ppm	1102070	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmastanol	416	C29H52O	019466-47-8	99
2	Stigmastanol	416	C29H52O	019466-47-8	89
3	Ergostanol	402	C28H50O	006538-02-9	83
4	Bufa-20,22-dienolide, 14,15-epox...	400	C24H32O5	004026-95-3	53
5	Cholestane, 3-ethoxy-, (3.beta.,...	416	C29H52O	002089-02-3	46





Library Search Compound Report

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Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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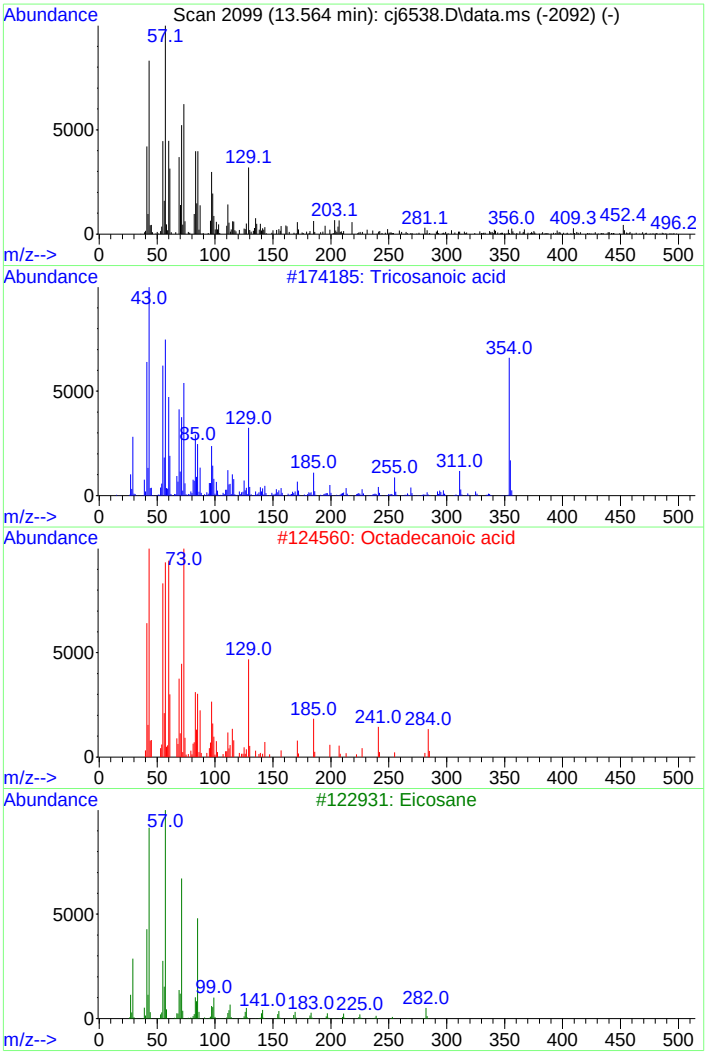
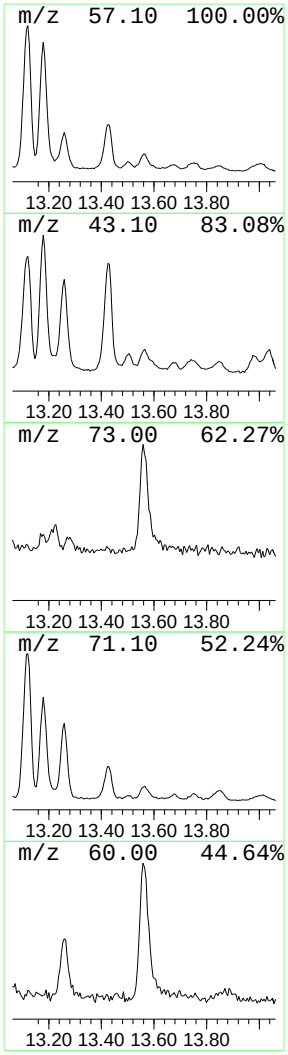
Peak Number 20 Unknown acid Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.564	29.97 ppm	1900600	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricosanoic acid	354	C23H46O2	002433-96-7	80
2	Octadecanoic acid	284	C18H36O2	000057-11-4	58
3	Eicosane	282	C20H42	000112-95-8	52
4	Sulfurous acid, octadecyl 2-prop...	376	C21H44O3S	1000309-12-7	46
5	Octacosane	394	C28H58	000630-02-4	38





Library Search Compound Report

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Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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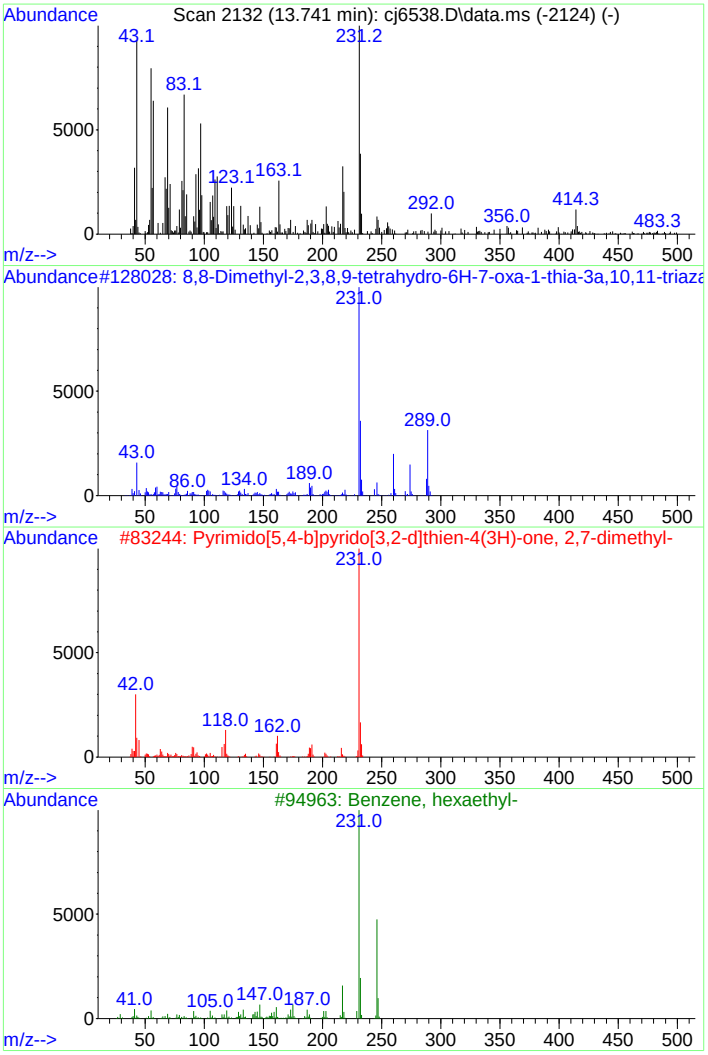
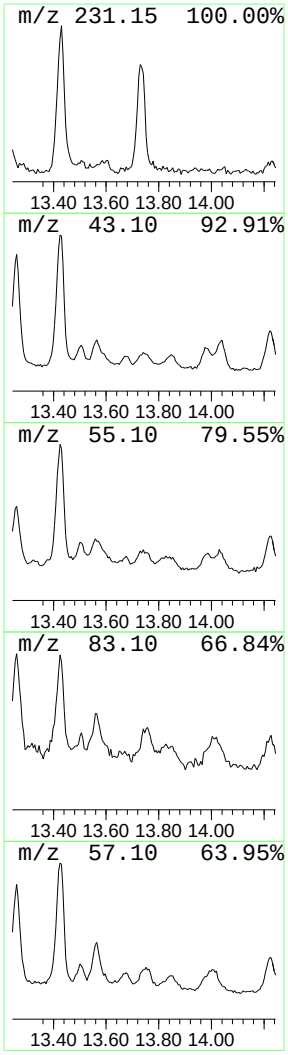
Peak Number 21 Unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.741	15.39 ppm	975955	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8,8-Dimethyl-2,3,8,9-tetrahydro-...	289	C14H15N3O2S	1000258-95-0	32
2	Pyrimido[5,4-b]pyrido[3,2-d]thie...	231	C11H9N3OS	201681-22-3	27
3	Benzene, hexaethyl-	246	C18H30	000604-88-6	25
4	Benzene, 1,3,5-tri-tert-butyl-	246	C18H30	001460-02-2	25
5	1-Chlorobenzene, 4-(2-hydroxyben...	231	C13H10ClNO	1000221-93-4	25





Library Search Compound Report

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Acq On : 10 May 2024 12:16 am
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Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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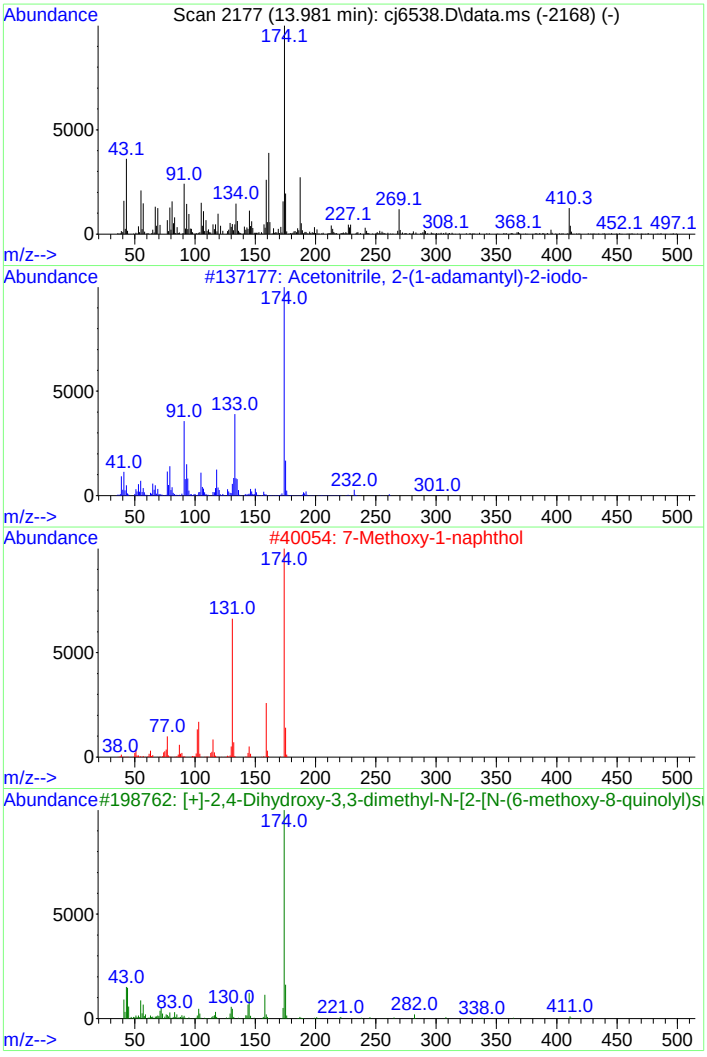
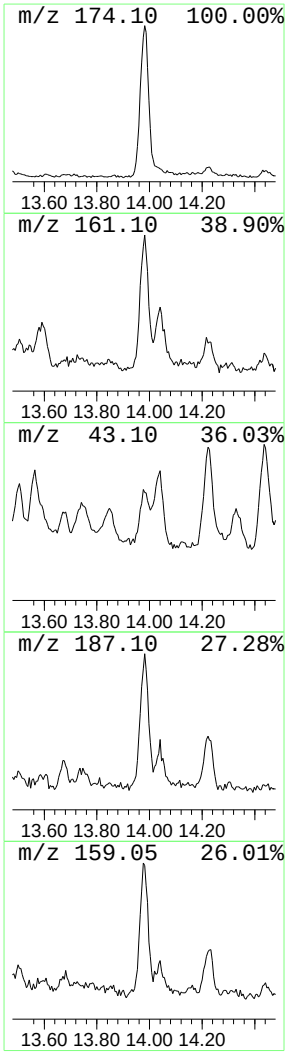
Peak Number 22 Unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.981	17.34 ppm	1099470	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetonitrile, 2-(1-adamantyl)-2-...	301	C12H16IN	1000272-34-4	41
2	7-Methoxy-1-naphthol	174	C11H10O2	067247-13-6	38
3	[+]-2,4-Dihydroxy-3,3-dimethyl-N...	411	C18H25N3O6S	028124-68-7	38
4	1H-Indole-3-acetic acid, 5-metho...	233	C13H15NO3	007588-36-5	37
5	2,3-Dihydro-4-methyl-1H-1,5-benz...	174	C10H10N2O	006276-48-8	35





Library Search Compound Report

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Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
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Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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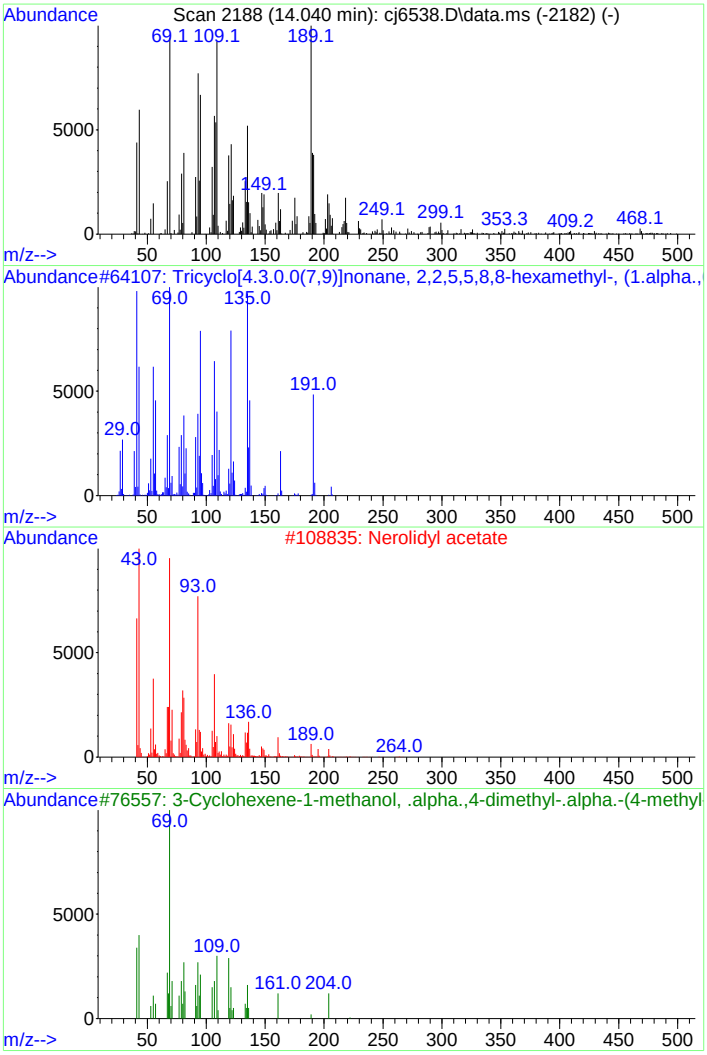
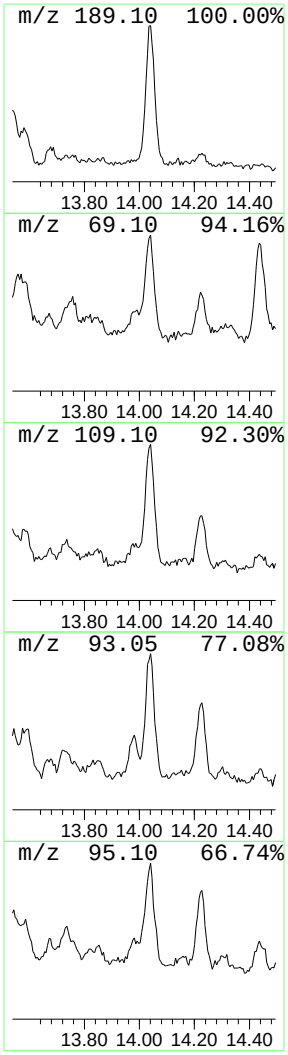
Peak Number 23 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.040	24.58 ppm	1558660	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricyclo[4.3.0.0(7,9)]nonane, 2,...	206	C15H26	054832-82-5	46
2	Nerolidyl acetate	264	C17H28O2	002306-78-7	42
3	3-Cyclohexene-1-methanol, .alpha...	222	C15H26O	023178-88-3	38
4	Cyclohexene, 1-methyl-4-(5-methy...	204	C15H24	000495-61-4	25
5	9,19-Cycloergost-24(28)-en-3-ol,...	468	C32H52O2	010376-42-8	25





Library Search Compound Report

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Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
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Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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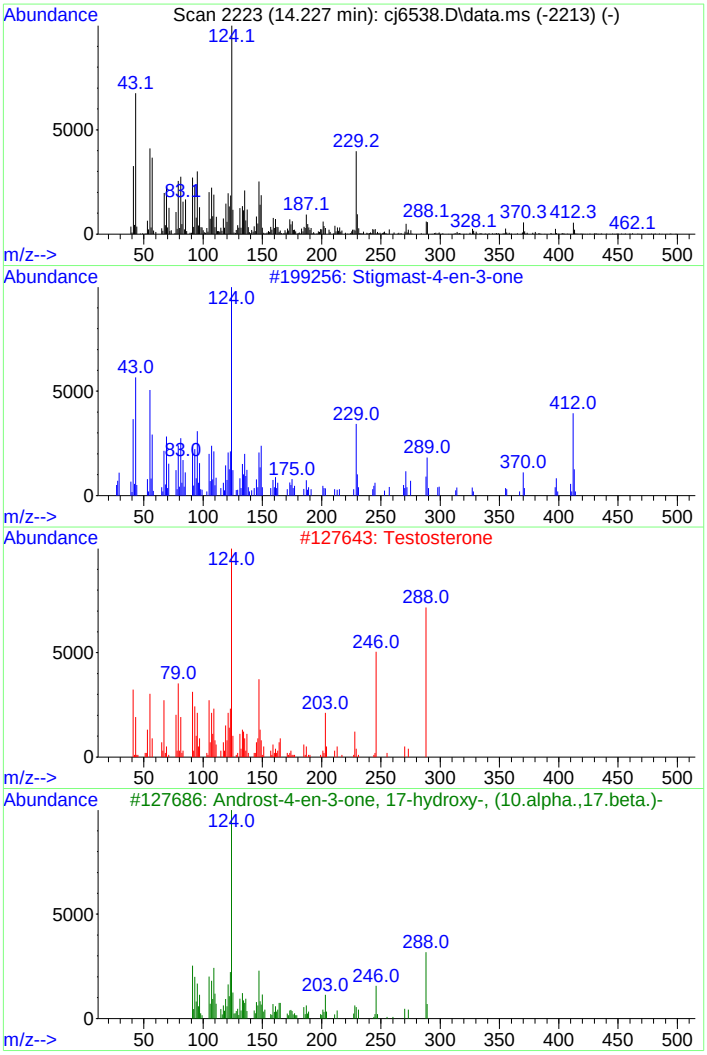
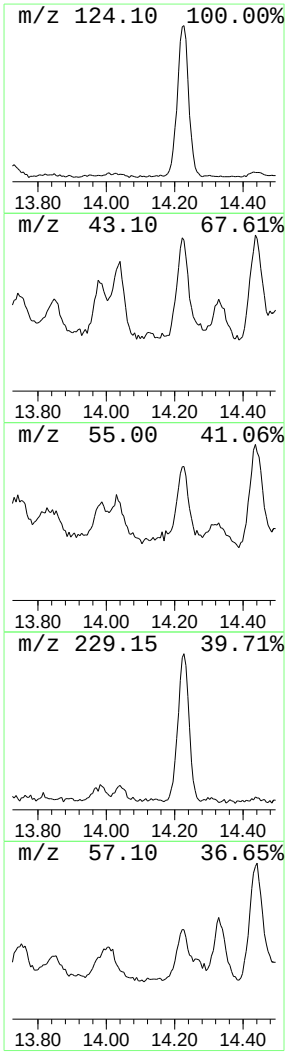
Peak Number 24 Unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.227	27.14 ppm	1720920	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	91
2	Testosterone	288	C19H28O2	000058-22-0	80
3	Androst-4-en-3-one, 17-hydroxy-,...	288	C19H28O2	000604-39-7	62
4	Androst-4-en-3-one, 17-hydroxy-,...	288	C19H28O2	000481-30-1	42
5	Phenol, 2,6-diamino-	124	C6H8N2O	022440-82-0	35





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

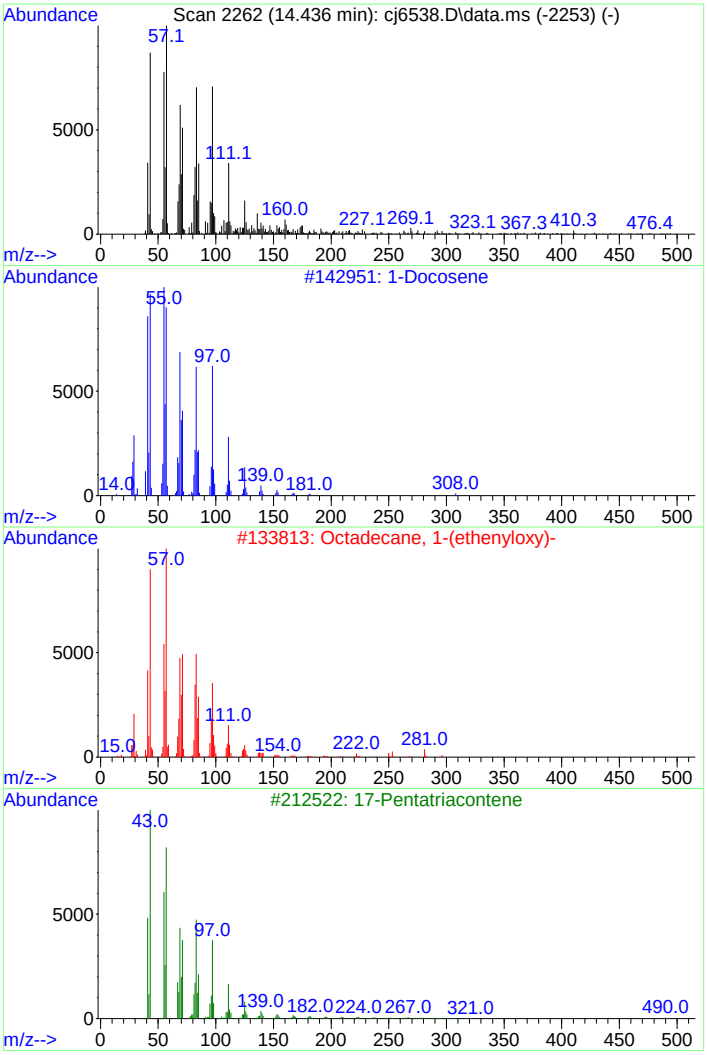
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

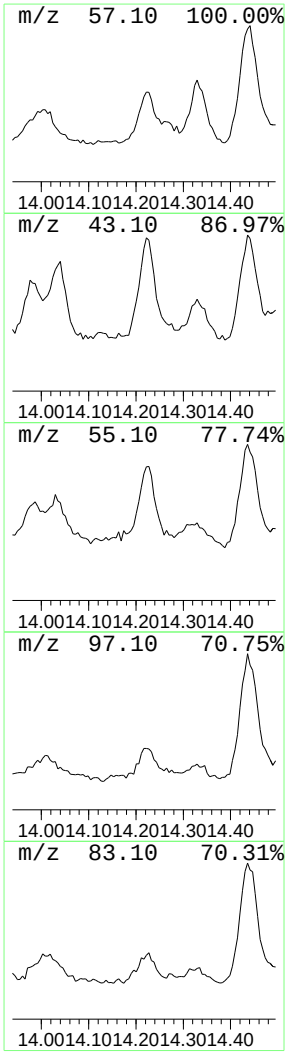
****

Peak Number 25 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.436	24.02 ppm	1523390	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	90
2	Octadecane, 1-(ethenyloxy)-	296	C20H40O	000930-02-9	89
3	17-Pentatriacontene	491	C35H70	006971-40-0	87
4	1-Hentetracontanol	593	C41H84O	040710-42-7	83
5	1-Octacosanol	410	C28H58O	1000351-79-2	81





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6538.D
Acq On : 10 May 2024 12:16 am
Operator : rocquans
Sample : jd87833-1
Misc : op54460,ecj297,31.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown acid	9.044	13.1	ppm	1047330	8	7.873	3199470	40.0
Unknown	10.071	15.2	ppm	1199220	9	10.366	3161770	40.0
Unknown	10.269	24.0	ppm	1896430	9	10.366	3161770	40.0
Docosanoic acid	10.499	35.0	ppm	2763860	10	10.366	3161770	40.0
Unknown acid	10.810	18.5	ppm	1465830	10	10.366	3161770	40.0
Unknown	10.906	44.5	ppm	3520930	10	10.366	3161770	40.0
Unknown acid	11.114	50.7	ppm	3213800	11	11.719	2536470	40.0
Unknown	11.211	32.3	ppm	2047960	11	11.719	2536470	40.0
Unknown	11.521	99.8	ppm	6330920	11	11.719	2536470	40.0
Unknown	11.874	13.2	ppm	837241	11	11.719	2536470	40.0
Unknown	12.008	35.4	ppm	2247400	11	11.719	2536470	40.0
Alkane	12.216	97.6	ppm	6190070	11	11.719	2536470	40.0
Unknown alcohol	12.248	61.1	ppm	3877510	11	11.719	2536470	40.0
Unknown	12.537	13.2	ppm	839049	11	11.719	2536470	40.0
Unknown	12.676	14.2	ppm	900806	11	11.719	2536470	40.0
Alkane	13.115	59.9	ppm	3797700	11	11.719	2536470	40.0
Unknown alcohol	13.179	69.8	ppm	4426800	11	11.719	2536470	40.0
Unknown	13.430	99.0	ppm	6279530	11	11.719	2536470	40.0
Unknown	13.505	17.4	ppm	1102070	11	11.719	2536470	40.0
Unknown acid	13.564	30.0	ppm	1900600	11	11.719	2536470	40.0
Unknown	13.741	15.4	ppm	975955	11	11.719	2536470	40.0
Unknown	13.981	17.3	ppm	1099470	11	11.719	2536470	40.0
Unknown	14.040	24.6	ppm	1558660	11	11.719	2536470	40.0
Unknown	14.227	27.1	ppm	1720920	11	11.719	2536470	40.0
Unknown	14.436	24.0	ppm	1523390	11	11.719	2536470	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jacky Takeuchi 05/10/24 22:07

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6529.D
Acq On : 09 May 2024 09:26 pm
Operator : rocquans
Sample : jd87833-2 Inst : GCMSCJ
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 10 18:58:47 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

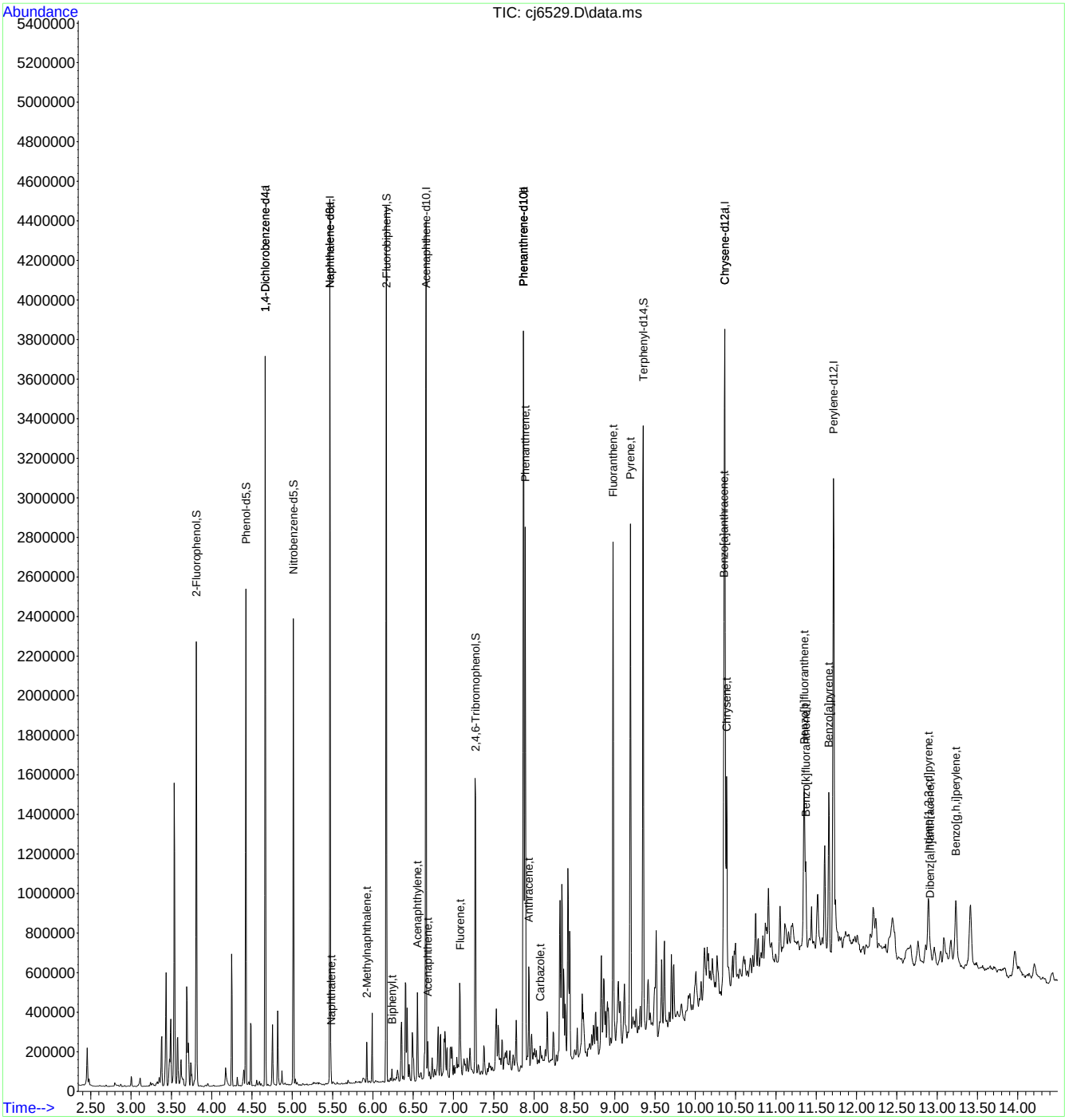
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.664	152	351757	40.00	ppm	0.00
24) Naphthalene-d8	5.466	136	1255598	40.00	ppm	0.00
46) Acenaphthene-d10	6.659	164	704743	40.00	ppm	0.00
69) Phenanthrene-d10	7.868	188	1217997	40.00	ppm	0.00
84) Chrysene-d12	10.366	240	860982	40.00	ppm	0.00
93) Perylene-d12	11.713	264	881333	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.664	152	351757	40.00	ppm	0.00
105) Phenanthrene-d10a	7.868	188	1217997	40.00	ppm	0.00
107) Naphthalene-d8a	5.466	136	1255598	40.00	ppm	0.00
109) Phenanthrene-d10b	7.868	188	1217997	40.00	ppm	0.00
112) Chrysene-d12a	10.366	240	860982	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.808	112	372189	36.81	ppm	0.01
Spiked Amount 50.000			Recovery = 73.62%			
8) Phenol-d5	4.423	99	490550	37.62	ppm	0.00
Spiked Amount 50.000			Recovery = 75.24%			
25) Nitrobenzene-d5	5.012	82	477253	37.12	ppm	0.00
Spiked Amount 50.000			Recovery = 74.24%			
51) 2-Fluorobiphenyl	6.167	172	875011	39.46	ppm	0.00
Spiked Amount 50.000			Recovery = 78.92%			
74) 2,4,6-Tribromophenol	7.274	330	121341	45.44	ppm	0.00
Spiked Amount 50.000			Recovery = 90.88%			
87) Terphenyl-d14	9.355	244	856776	40.28	ppm	0.00
Spiked Amount 50.000			Recovery = 80.56%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
38) Naphthalene	5.482	128	17328	0.5761	ppm	99
44) 2-Methylnaphthalene	5.926	141	38495	2.1586	ppm	92
53) Biphenyl	6.236	154	12868	0.5314	ppm	94
56) Acenaphthylene	6.552	152	92222	3.3739	ppm	95
59) Acenaphthene	6.680	153	26529	1.3648	ppm	92
66) Fluorene	7.081	166	112744	5.2908	ppm	96
78) Phenanthrene	7.889	178	777303	26.4069	ppm	100
79) Anthracene	7.932	178	173779	5.8960	ppm	98
80) Carbazole	8.076	167	18663	0.6795	ppm	94
82) Fluoranthene	8.980	202	841340	26.4013	ppm	99
86) Pyrene	9.194	202	906185	30.9482	ppm	99
89) Benzo[a]anthracene	10.355	228	396545	14.3246	ppm	95
91) Chrysene	10.387	228	350152	13.7095	ppm	97
95) Benzo[b]fluoranthene	11.350	252	392534m	14.7437	ppm	
96) Benzo[k]fluoranthene	11.371	252	106445m	4.4432	ppm	
97) Benzo[a]pyrene	11.655	252	292931	13.2909	ppm	98
98) Indeno[1,2,3-cd]pyrene	12.890	276	183960	6.9043	ppm	99
100) Dibenz[a,h]anthracene	12.912	278	48145	2.2614	ppm	91
102) Benzo[g,h,i]perylene	13.233	276	174052	8.4060	ppm	98

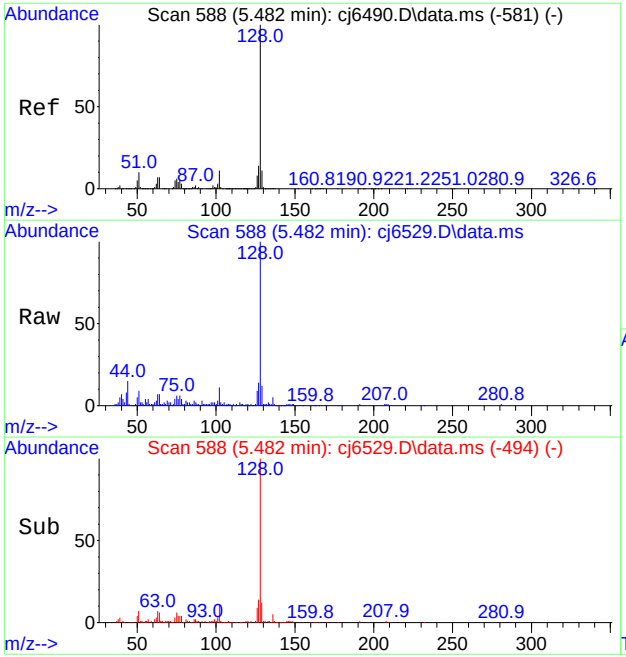
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6529.D
Acq On : 09 May 2024 09:26 pm
Operator : rocquans
Sample : jd87833-2 Inst : GCMSCJ
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 10 18:58:47 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

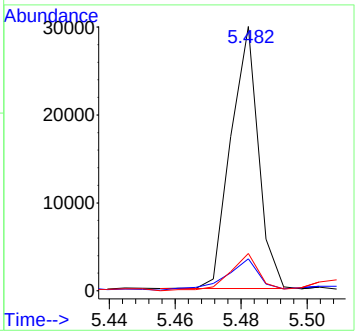


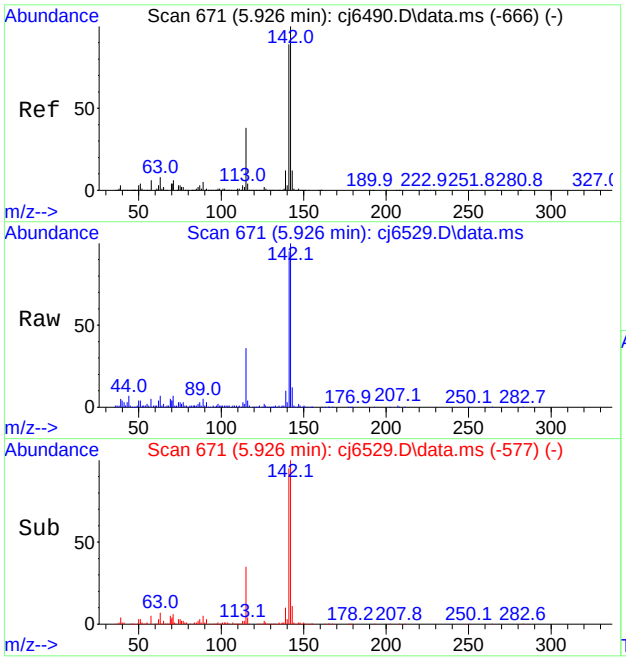


#38
Naphthalene
Concen: 0.5761 ppm
RT: 5.482 min Scan# 588
Delta R.T. 0.000 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:128 Resp: 17328

Ion	Ratio	Lower	Upper
128	100		
129	11.7	0.0	41.4
127	14.0	0.0	43.3

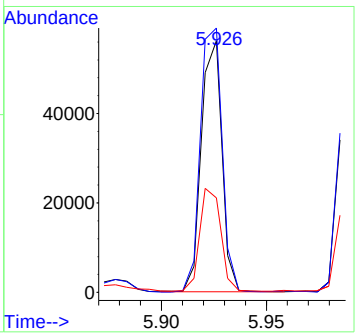


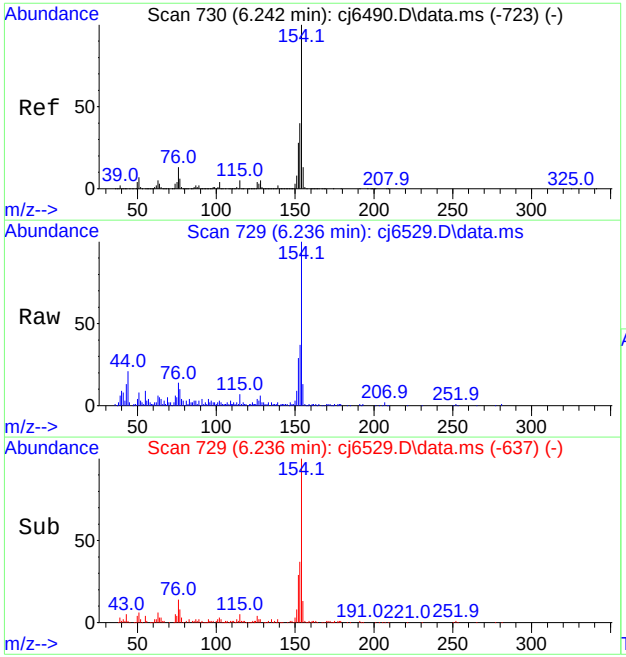


#44
2-Methylnaphthalene
Concen: 2.1586 ppm
RT: 5.926 min Scan# 671
Delta R.T. 0.000 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:141 Resp: 38495

Ion	Ratio	Lower	Upper
141	100		
142	105.0	82.7	142.7
115	36.9	12.4	72.4

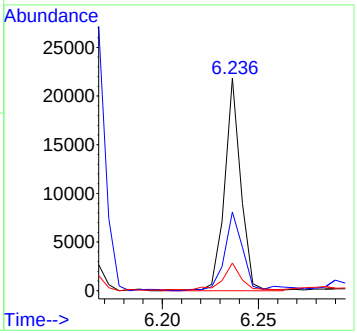


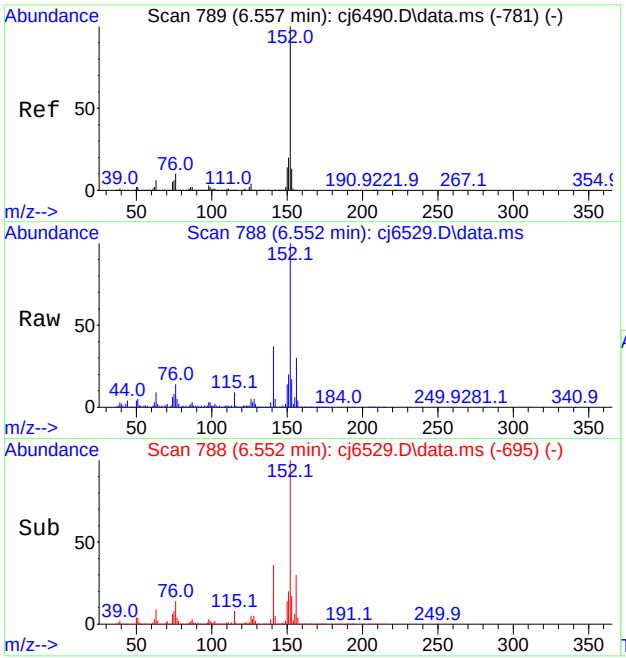


#53
Biphenyl
Concen: 0.5314 ppm
RT: 6.236 min Scan# 729
Delta R.T. -0.006 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:154 Resp: 12868

Ion	Ratio	Lower	Upper
154	100		
153	36.0	10.5	70.5
155	12.7	0.0	42.8

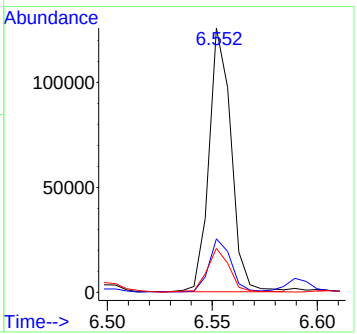


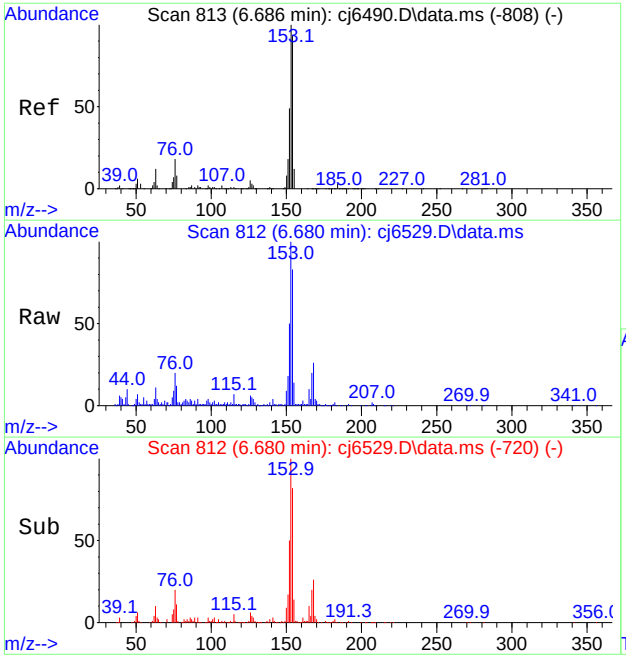


#56
Acenaphthylene
Concen: 3.3739 ppm
RT: 6.552 min Scan# 788
Delta R.T. -0.005 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:152 Resp: 92222

Ion	Ratio	Lower	Upper
152	100		
151	19.1	0.0	50.3
153	16.6	0.0	43.4

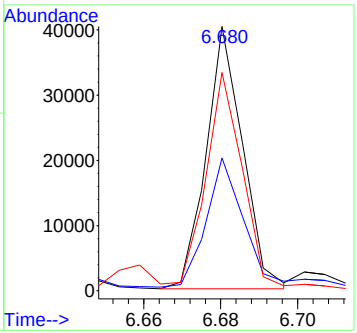


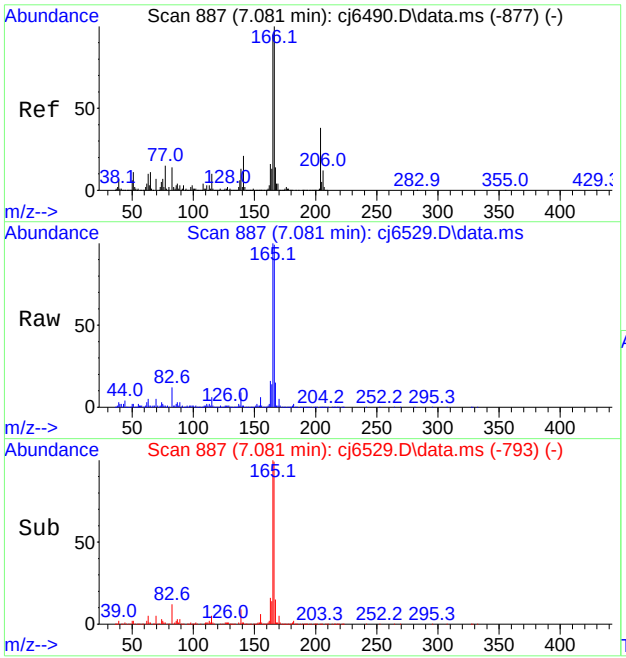


#59
Acenaphthene
Concen: 1.3648 ppm
RT: 6.680 min Scan# 812
Delta R.T. -0.006 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:153 Resp: 26529

Ion	Ratio	Lower	Upper
153	100		
152	48.6	18.8	78.8
154	81.9	62.9	122.9

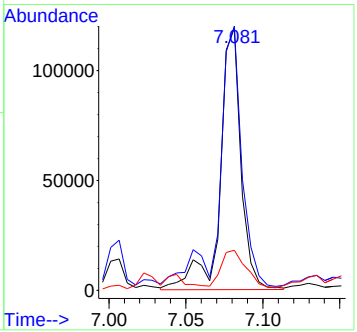


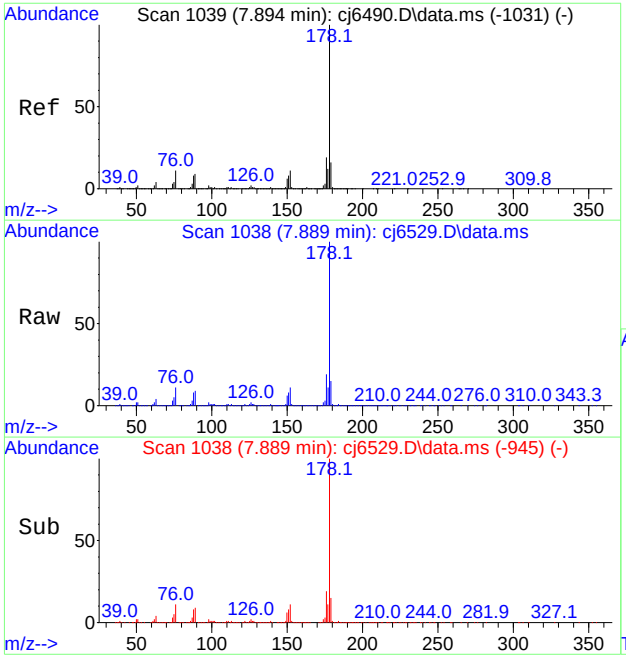


#66
Fluorene
Concen: 5.2908 ppm
RT: 7.081 min Scan# 887
Delta R.T. 0.000 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:166 Resp: 112744

Ion	Ratio	Lower	Upper
166	100		
165	99.7	65.4	125.4
167	13.5	0.0	43.8

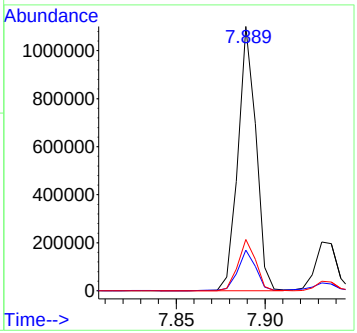


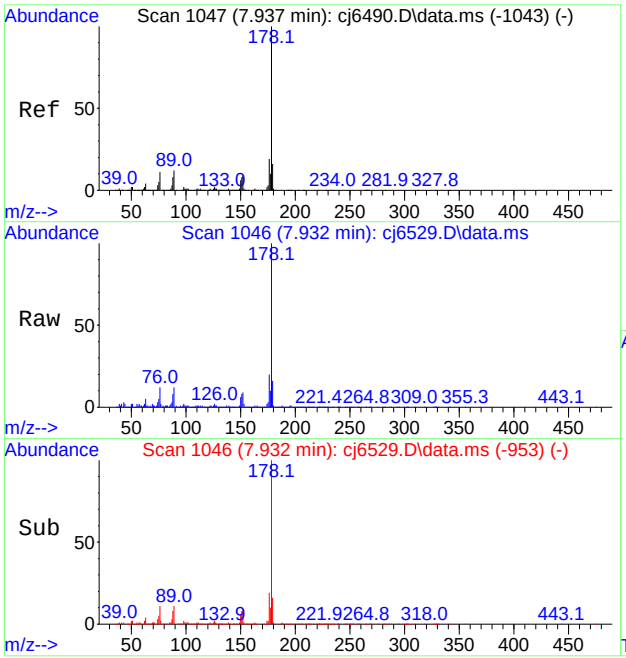


#78
Phenanthrene
Concen: 26.4069 ppm
RT: 7.889 min Scan# 1038
Delta R.T. -0.005 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:178 Resp: 777303

Ion	Ratio	Lower	Upper
178	100		
179	15.2	0.0	45.5
176	19.4	0.0	49.2

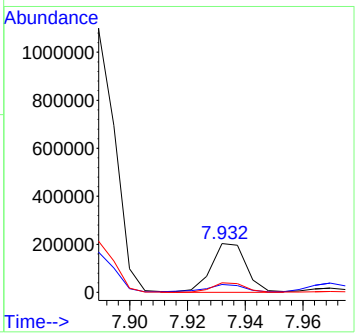


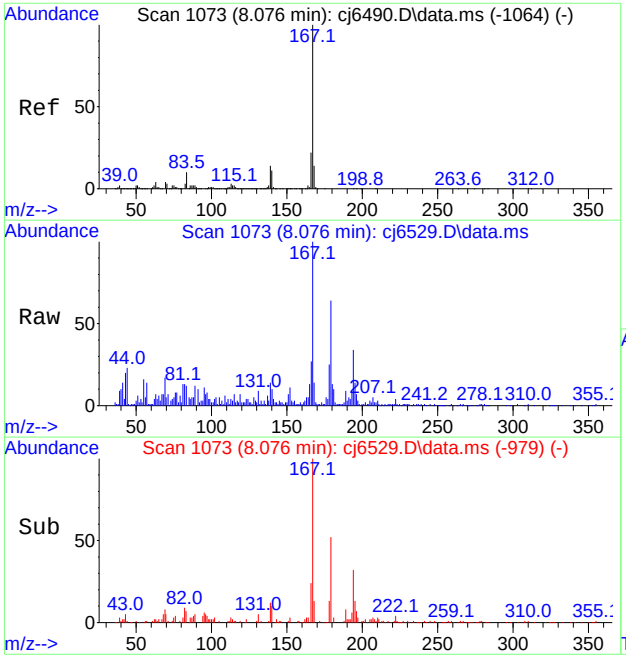


#79
Anthracene
Concen: 5.8960 ppm
RT: 7.932 min Scan# 1046
Delta R.T. -0.005 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:178 Resp: 173779

Ion	Ratio	Lower	Upper
178	100		
179	14.9	0.0	46.1
176	19.4	0.0	48.7

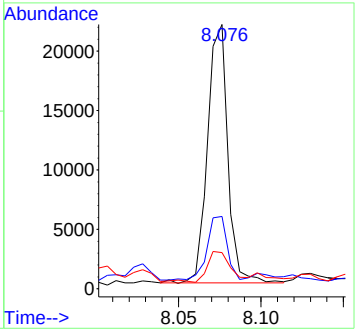


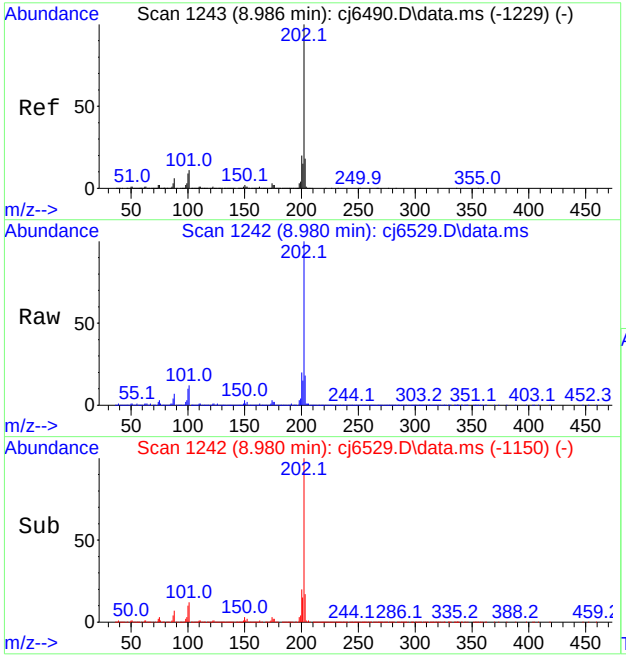


#80
Carbazole
Concen: 0.6795 ppm
RT: 8.076 min Scan# 1073
Delta R.T. 0.000 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:167 Resp: 18663

Ion	Ratio	Lower	Upper
167	100		
166	24.0	0.0	51.7
139	10.7	0.0	43.8

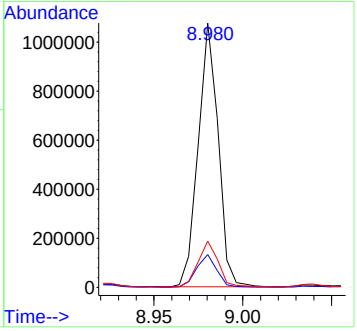


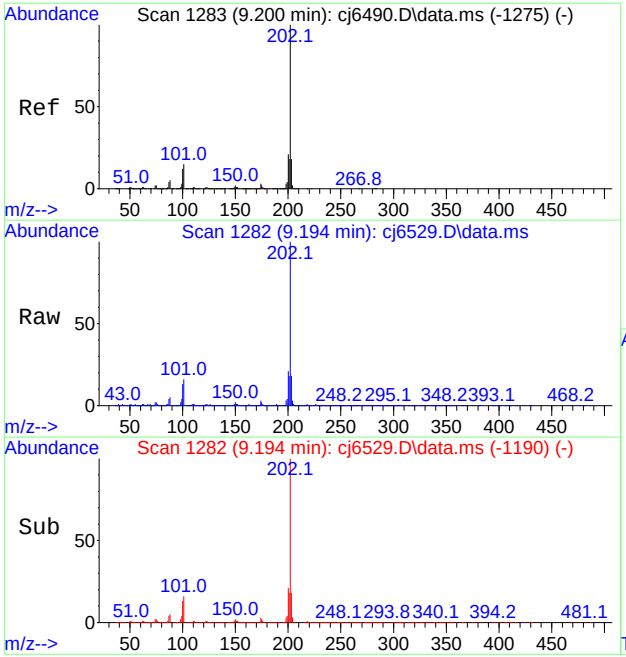


#82
Fluoranthene
Concen: 26.4013 ppm
RT: 8.980 min Scan# 1242
Delta R.T. -0.006 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:202 Resp: 841340

Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	41.4
203	17.4	0.0	47.6

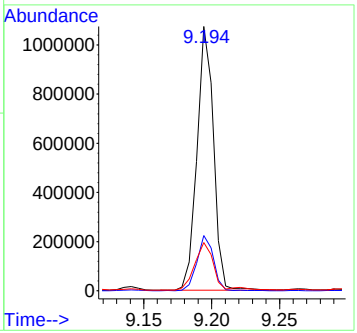


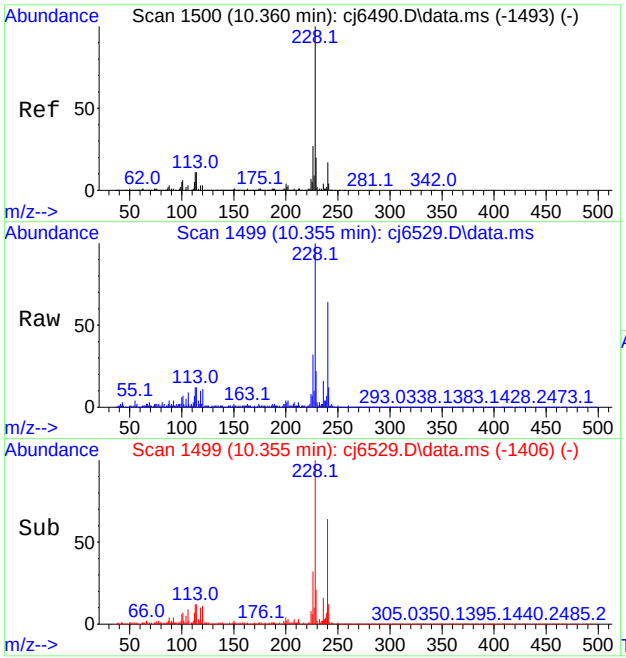


#86
Pyrene
Concen: 30.9482 ppm
RT: 9.194 min Scan# 1282
Delta R.T. -0.006 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:202 Resp: 906185

Ion	Ratio	Lower	Upper
202	100		
200	20.9	0.0	51.4
203	18.0	0.0	47.8

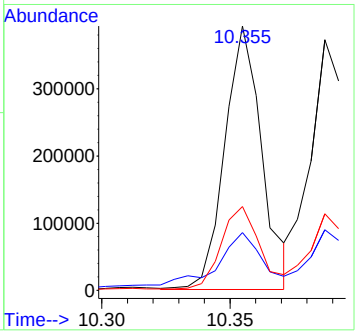


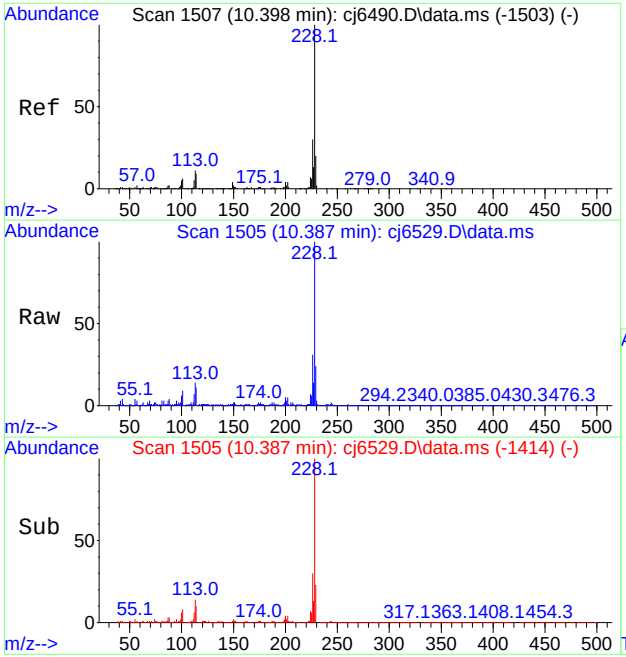


#89
Benzo[a]anthracene
Concen: 14.3246 ppm
RT: 10.355 min Scan# 1499
Delta R.T. -0.005 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:228 Resp: 396545

Ion	Ratio	Lower	Upper
228	100		
229	20.1	0.0	49.8
226	31.4	0.0	57.1

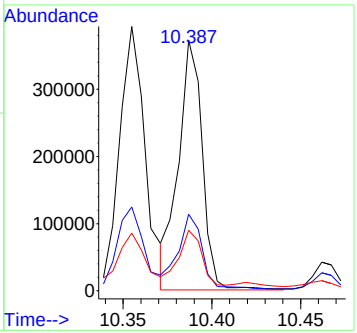


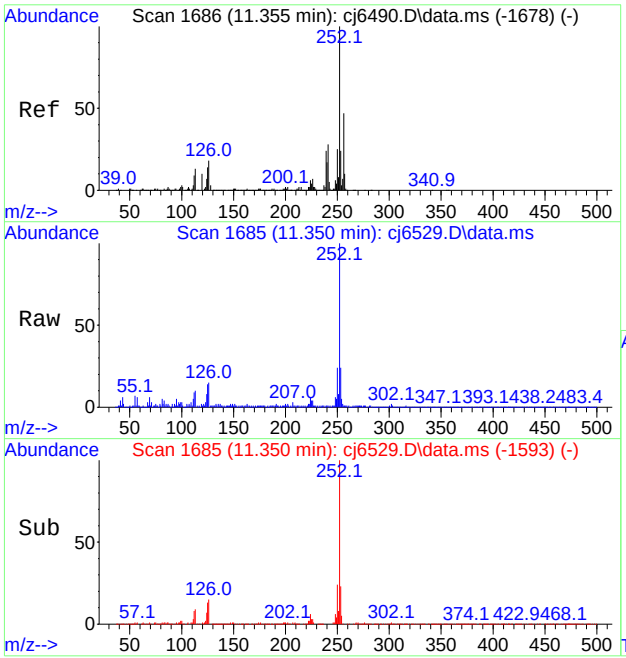


#91
Chrysene
Concen: 13.7095 ppm
RT: 10.387 min Scan# 1505
Delta R.T. -0.011 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:228 Resp: 350152

Ion	Ratio	Lower	Upper
228	100		
226	30.1	0.0	59.9
229	22.8	0.0	49.8

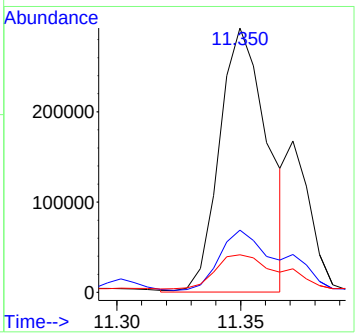


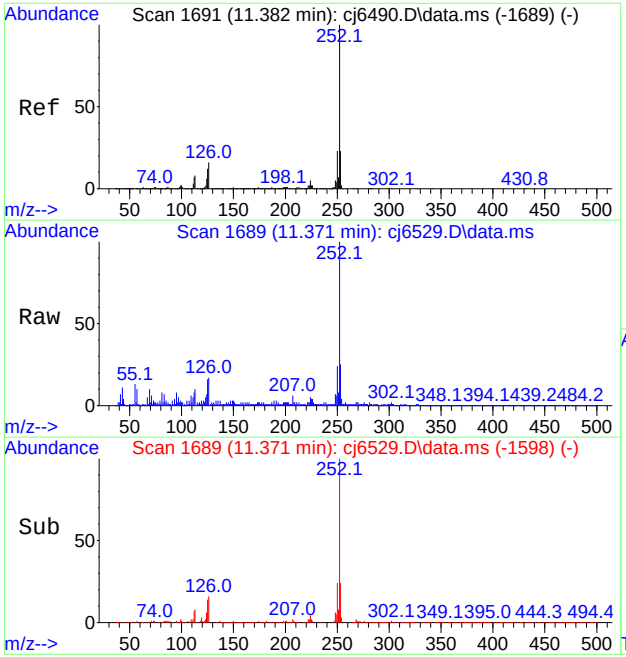


#95
Benzo[b]fluoranthene
Concen: 14.7437 ppm m
RT: 11.350 min Scan# 1685
Delta R.T. -0.005 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:252 Resp: 392534

Ion	Ratio	Lower	Upper
252	100		
253	23.5	0.0	54.7
125	14.2	0.0	44.2

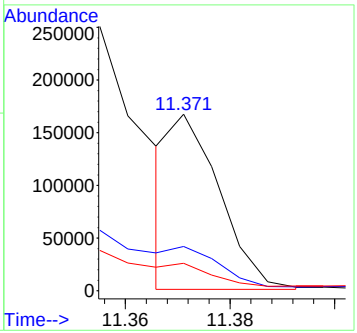


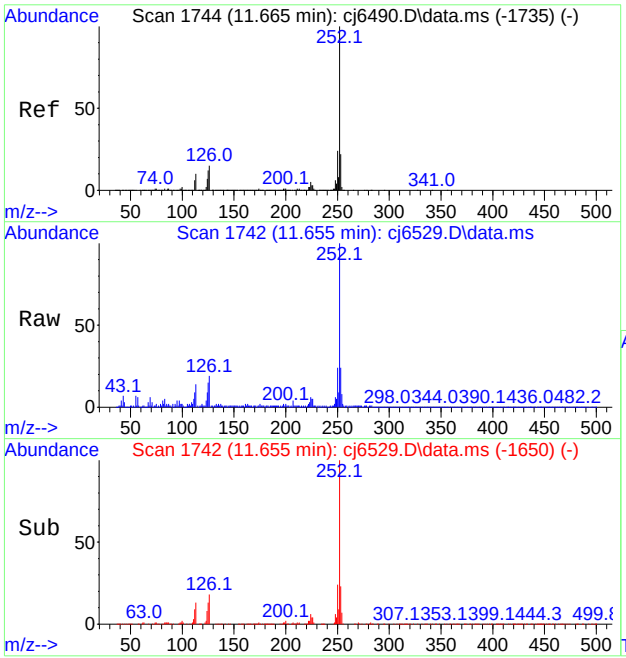


#96
Benzo[k]fluoranthene
Concen: 4.4432 ppm m
RT: 11.371 min Scan# 1689
Delta R.T. -0.011 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:252 Resp: 106445

Ion	Ratio	Lower	Upper
252	100		
253	25.1	0.0	52.6
125	15.7	0.0	42.4

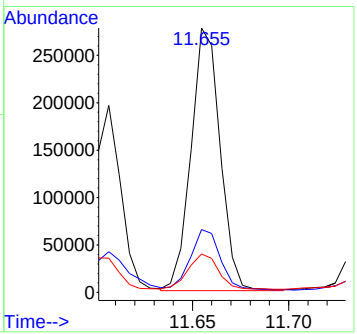


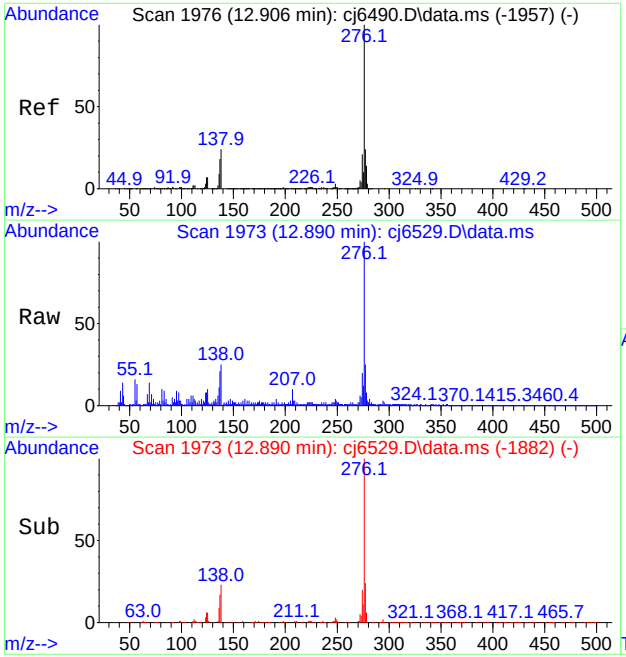


#97
Benzo[a]pyrene
Concen: 13.2909 ppm
RT: 11.655 min Scan# 1742
Delta R.T. -0.010 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:252 Resp: 292931

Ion	Ratio	Lower	Upper
252	100		
253	22.5	0.0	51.9
125	13.5	0.0	42.1

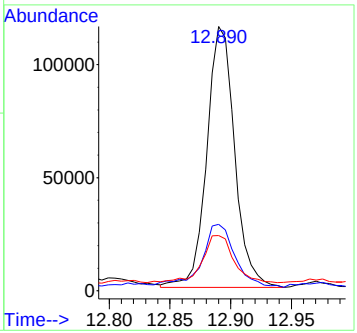


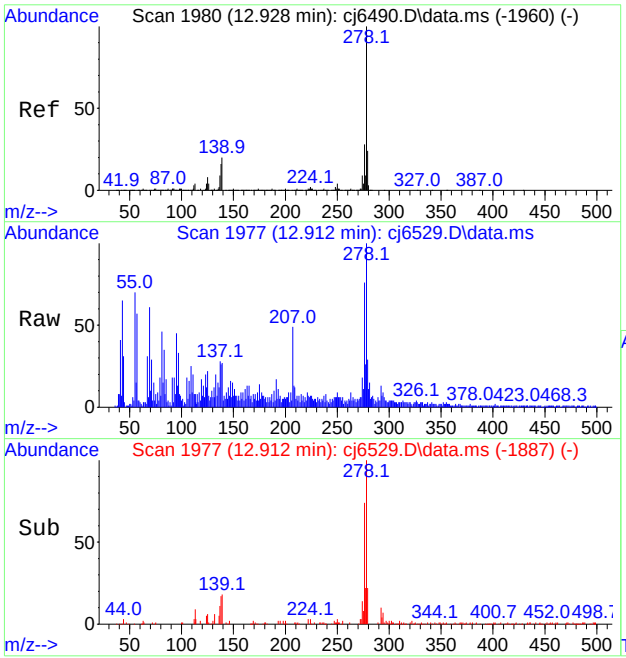


#98
Indeno[1,2,3-cd]pyrene
Concen: 6.9043 ppm
RT: 12.890 min Scan# 1973
Delta R.T. -0.016 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:276 Resp: 183960

Ion	Ratio	Lower	Upper
276	100		
138	23.3	0.0	54.2
137	17.9	0.0	47.9

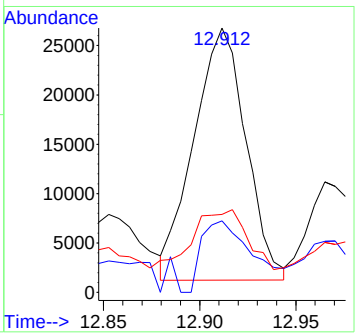


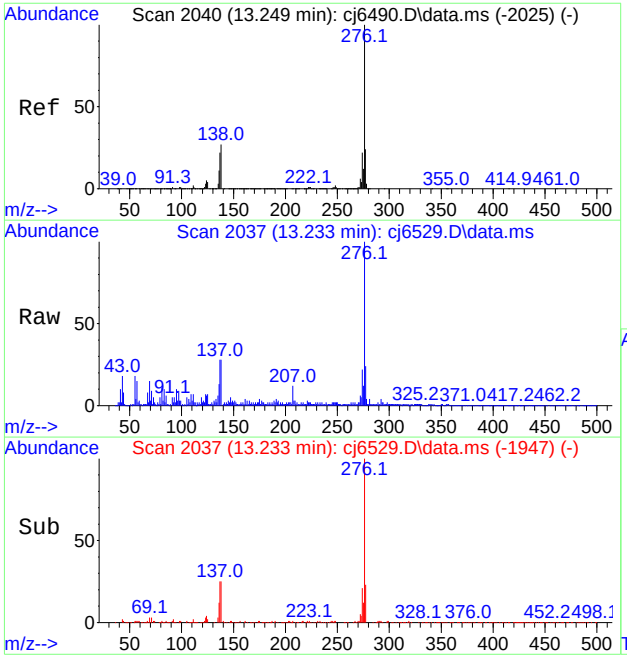


#100
Dibenz[a,h]anthracene
Concen: 2.2614 ppm
RT: 12.912 min Scan# 1977
Delta R.T. -0.016 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:278 Resp: 48145

Ion	Ratio	Lower	Upper
278	100		
139	25.4	0.0	49.8
279	21.2	0.0	54.1

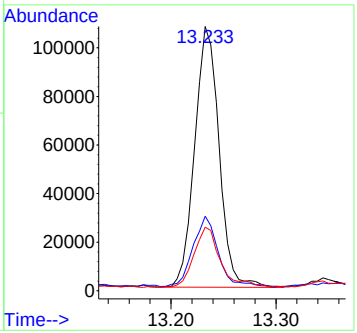




#102
Benzo[g,h,i]perylene
Concen: 8.4060 ppm
RT: 13.233 min Scan# 2037
Delta R.T. -0.017 min
Lab File: cj6529.D
Acq: 09 May 2024 09:26 pm

Tgt Ion:276 Resp: 174052

Ion	Ratio	Lower	Upper
276	100		
138	27.0	0.0	56.7
277	22.8	0.0	54.1



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6529.D
Acq On : 09 May 2024 09:26 pm
Operator : rocquans
Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6529.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.247	353	357	361	rVB	667510	423953	10.26%	0.658%
2	4.423	387	390	394	rVV	2510915	1427980	34.55%	2.216%
3	4.482	399	401	405	rVB	314853	217066	5.25%	0.337%
4	4.664	431	435	439	rBV	3690029	2185253	52.87%	3.392%
5	4.755	447	452	460	rBV	310384	223566	5.41%	0.347%
6	4.819	460	464	469	rBV	376041	242155	5.86%	0.376%
7	5.012	493	500	504	rBV	2356743	1370722	33.16%	2.127%
8	5.466	577	585	590	rBV	4475013	2730228	66.06%	4.237%
9	5.921	667	670	674	rVB	204648	148858	3.60%	0.231%
10	5.990	680	683	688	rVB	353069	213889	5.18%	0.332%
11	6.167	712	716	722	rBV	4429234	2632708	63.70%	4.086%
12	6.354	746	751	754	rBV	300284	290237	7.02%	0.450%
13	6.402	757	760	763	rBV	491870	453196	10.97%	0.703%
14	6.424	763	764	767	rVB	349976	176257	4.26%	0.274%
15	6.488	773	776	783	rVB	247305	259154	6.27%	0.402%
16	6.552	783	788	793	rBV	449723	338721	8.20%	0.526%
17	6.659	800	808	811	rBV	4333572	3157694	76.40%	4.901%
18	6.809	831	836	839	rVB	247261	215088	5.20%	0.334%
19	6.841	839	842	845	rVB	210077	156465	3.79%	0.243%
20	6.894	845	852	855	rBV3	224615	321733	7.78%	0.499%
21	6.980	861	868	871	rBV4	156070	294203	7.12%	0.457%
22	7.076	883	886	892	rVB2	465666	453743	10.98%	0.704%
23	7.130	892	896	901	rBV3	82591	142815	3.46%	0.222%
24	7.205	906	910	918	rVB4	128458	149202	3.61%	0.232%
25	7.269	918	922	927	rBV	1492318	1242121	30.05%	1.928%
26	7.376	939	942	948	rVB2	148523	145745	3.53%	0.226%
27	7.531	966	971	973	rBV	312832	333347	8.07%	0.517%
28	7.552	973	975	982	rVB	200637	191506	4.63%	0.297%
29	7.777	1013	1017	1023	rVB	259095	261749	6.33%	0.406%
30	7.868	1030	1034	1036	rBV	3725199	3067313	74.21%	4.761%
31	7.889	1036	1038	1042	rVV	2695825	1828263	44.23%	2.838%
32	7.932	1042	1046	1049	rVB	500781	417146	10.09%	0.647%
33	7.969	1049	1053	1056	rBV2	160045	172566	4.18%	0.268%
34	8.162	1082	1089	1094	rVB2	256309	294104	7.12%	0.456%
35	8.237	1094	1103	1107	rVB	171500	234482	5.67%	0.364%
36	8.322	1112	1119	1121	rBV	813878	818042	19.79%	1.270%
37	8.344	1121	1123	1126	rVV	857150	769855	18.63%	1.195%
38	8.365	1126	1127	1130	rVV	423604	303445	7.34%	0.471%
39	8.387	1130	1131	1134	rVB	241292	149883	3.63%	0.233%
40	8.419	1134	1137	1140	rBV	923218	908922	21.99%	1.411%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6529.D
Acq On : 09 May 2024 09:26 pm
Operator : rocquans
Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	8.440	1140	1141	1147	rVB	647032	439341	10.63%	0.682%
42	8.595	1162	1170	1182	rBV3	321196	608443	14.72%	0.944%
43	8.836	1209	1215	1217	rBV	498300	549269	13.29%	0.852%
44	8.863	1217	1220	1223	rVV	273597	268302	6.49%	0.416%
45	8.911	1226	1229	1234	rVB3	222490	323415	7.83%	0.502%
46	8.980	1238	1242	1248	rBV	2535277	2025431	49.01%	3.144%
47	9.044	1248	1254	1257	rBV4	301540	469777	11.37%	0.729%
48	9.066	1257	1258	1263	rVB	214056	183642	4.44%	0.285%
49	9.119	1263	1268	1274	rBV5	302298	437661	10.59%	0.679%
50	9.194	1274	1282	1286	rBV	2600812	2372575	57.40%	3.682%
51	9.317	1299	1305	1307	rBV	137160	145404	3.52%	0.226%
52	9.355	1307	1312	1317	rVB	3053279	2703291	65.41%	4.196%
53	9.414	1318	1323	1327	rBV4	253750	356729	8.63%	0.554%
54	9.515	1334	1342	1346	rVB	537926	812471	19.66%	1.261%
55	9.579	1346	1354	1358	rBV	391332	520402	12.59%	0.808%
56	9.617	1358	1361	1369	rVB	435035	433563	10.49%	0.673%
57	9.702	1374	1377	1380	rBV	341264	268476	6.50%	0.417%
58	9.734	1380	1383	1387	rBV	275250	255407	6.18%	0.396%
59	9.825	1395	1400	1408	rVB9	86414	155153	3.75%	0.241%
60	9.916	1408	1417	1418	rBV5	129914	231835	5.61%	0.360%
61	10.007	1427	1434	1440	rBV3	193718	373120	9.03%	0.579%
62	10.071	1440	1446	1449	rBV2	127356	164643	3.98%	0.256%
63	10.114	1449	1454	1458	rBV4	266444	443407	10.73%	0.688%
64	10.146	1458	1460	1465	rVB2	159104	200785	4.86%	0.312%
65	10.210	1470	1472	1477	rVB	143887	156237	3.78%	0.242%
66	10.269	1480	1483	1489	rVB3	194759	268354	6.49%	0.416%
67	10.366	1493	1501	1504	rBV2	3368496	4133097	100.00%	6.415%
68	10.387	1504	1505	1514	rVB	1060386	813697	19.69%	1.263%
69	10.462	1514	1519	1521	rBV3	153557	173308	4.19%	0.269%
70	10.499	1521	1526	1529	rBV3	174246	238126	5.76%	0.370%
71	10.601	1541	1545	1551	rBV5	102134	191634	4.64%	0.297%
72	10.751	1568	1573	1576	rBV	270508	289150	7.00%	0.449%
73	10.836	1581	1589	1592	rBV3	156710	258476	6.25%	0.401%
74	10.868	1592	1595	1599	rVV2	180454	298835	7.23%	0.464%
75	10.906	1599	1602	1607	rVV	346792	423492	10.25%	0.657%
76	11.050	1624	1629	1633	rBV2	282581	338279	8.18%	0.525%
77	11.109	1633	1640	1647	rVV9	137460	273983	6.63%	0.425%
78	11.205	1653	1658	1668	rVB7	107534	268499	6.50%	0.417%
79	11.350	1675	1685	1693	rBV	806555	1447240	35.02%	2.246%
80	11.441	1699	1702	1711	rVB	213079	247520	5.99%	0.384%
81	11.521	1711	1717	1723	rBV3	274947	472497	11.43%	0.733%
82	11.606	1729	1733	1737	rVB	518915	529986	12.82%	0.823%
83	11.655	1737	1742	1748	rVB	810034	847596	20.51%	1.316%
84	11.713	1748	1753	1765	rBV	2397280	3060165	74.04%	4.750%
85	11.863	1774	1781	1785	rBV8	83892	192024	4.65%	0.298%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6529.D
Acq On : 09 May 2024 09:26 pm
Operator : rocquans
Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.008	1806	1808	1817	rVB5	90008	148618	3.60%	0.231%
87	12.206	1841	1845	1849	rVV	200767	337867	8.17%	0.524%
88	12.238	1849	1851	1856	rVV3	148733	170824	4.13%	0.265%
89	12.446	1878	1890	1901	rVB3	210532	847091	20.50%	1.315%
90	12.639	1915	1926	1927	rBV9	71159	177929	4.30%	0.276%
91	12.762	1942	1949	1962	rBV5	122177	281384	6.81%	0.437%
92	12.858	1962	1967	1969	rVV4	103011	164102	3.97%	0.255%
93	12.890	1969	1973	1982	rVV3	338193	632063	15.29%	0.981%
94	12.965	1982	1987	1995	rVB7	92413	166486	4.03%	0.258%
95	13.083	2005	2009	2019	rVV6	138431	330505	8.00%	0.513%
96	13.174	2020	2026	2030	rVV4	126342	239699	5.80%	0.372%
97	13.233	2030	2037	2056	rVB	345923	774171	18.73%	1.202%
98	13.414	2061	2071	2080	rBV2	307507	613717	14.85%	0.953%
99	13.965	2167	2174	2180	rBV4	122363	297465	7.20%	0.462%
100	14.206	2212	2219	2234	rVB4	79863	220865	5.34%	0.343%

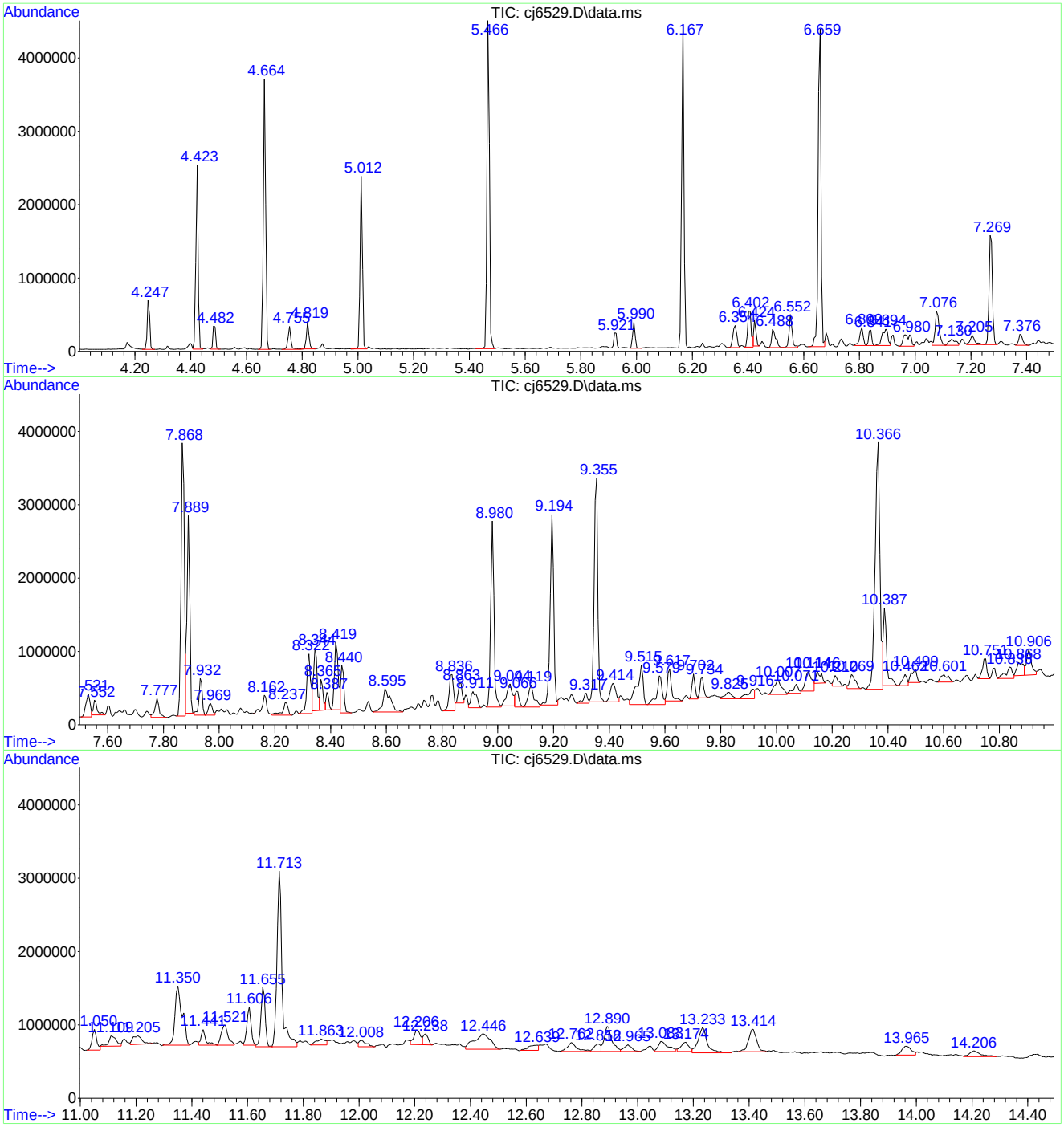
Sum of corrected areas: 64430898

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6529.D
Acq On : 09 May 2024 09:26 pm
Operator : rocquans
Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

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Sample : jd87833-2
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ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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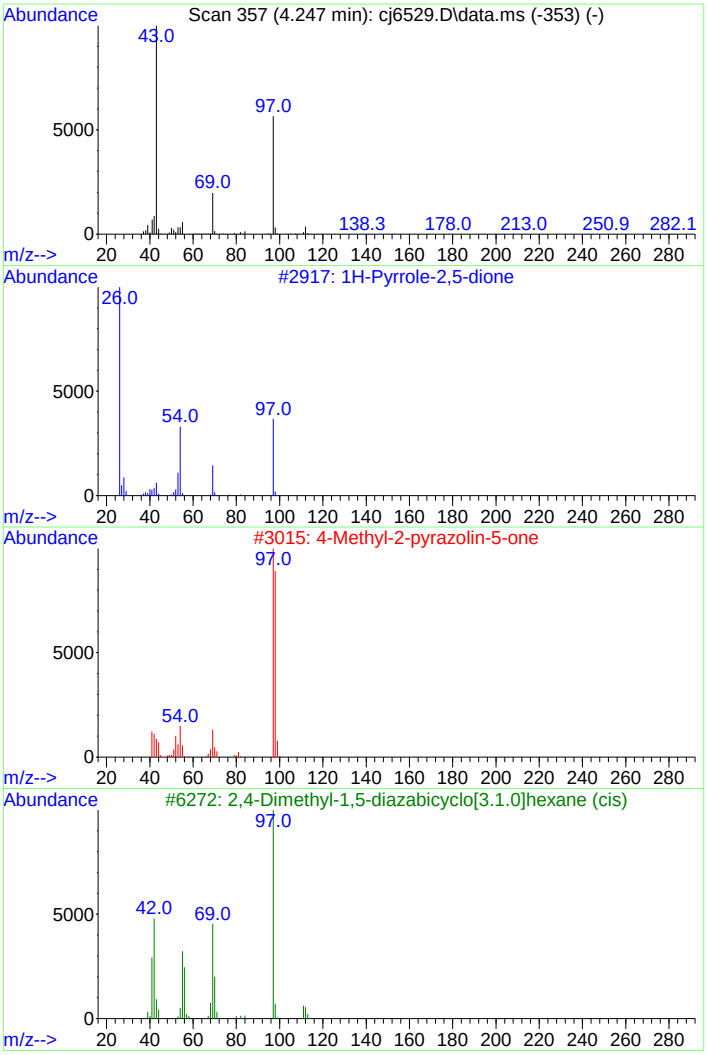
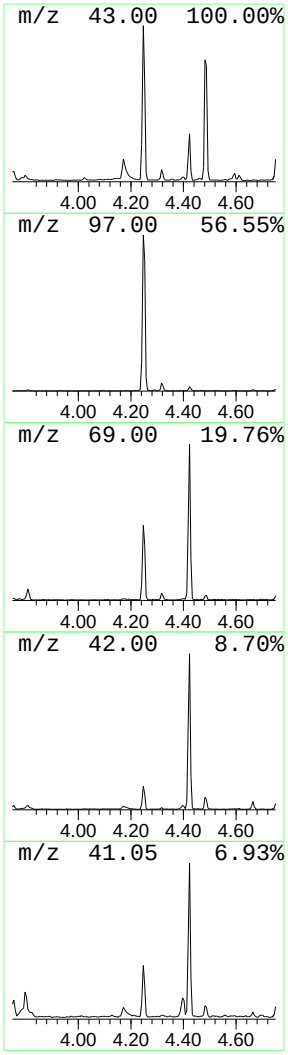
Peak Number 1 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.247	7.76 ppm	423953	1,4-Dichlorobenzene-d4a	4.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	42
2	4-Methyl-2-pyrazolin-5-one	98	C4H6N2O	013315-23-6	33
3	2,4-Dimethyl-1,5-diazabicyclo[3....	112	C6H12N2	100463-01-2	28
4	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	25
5	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	25





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ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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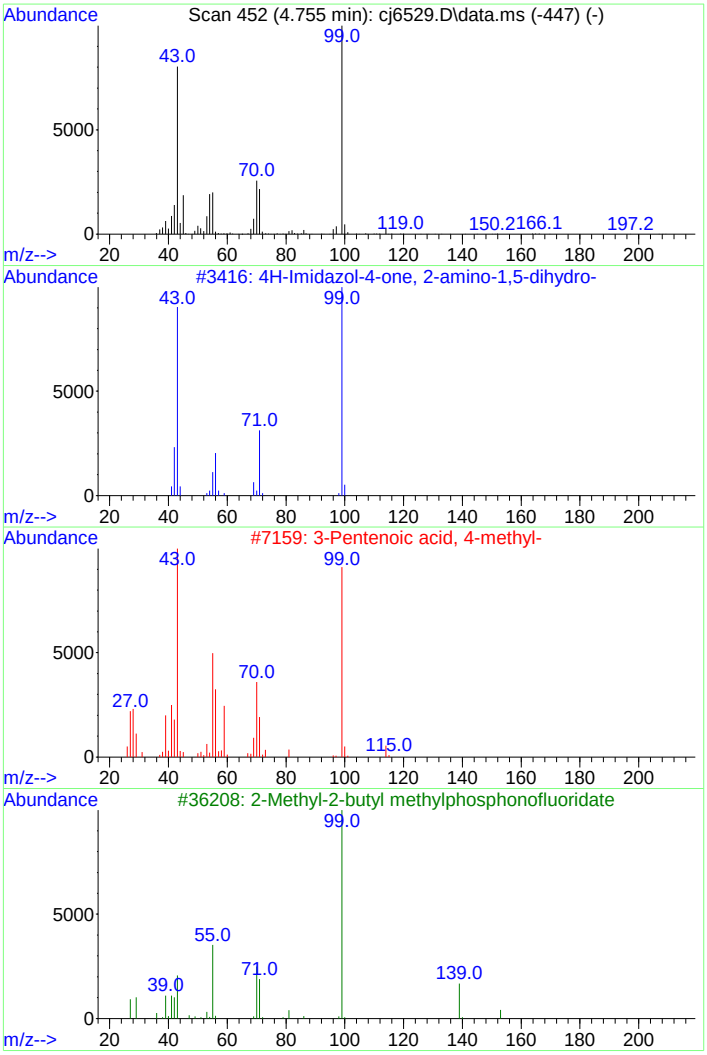
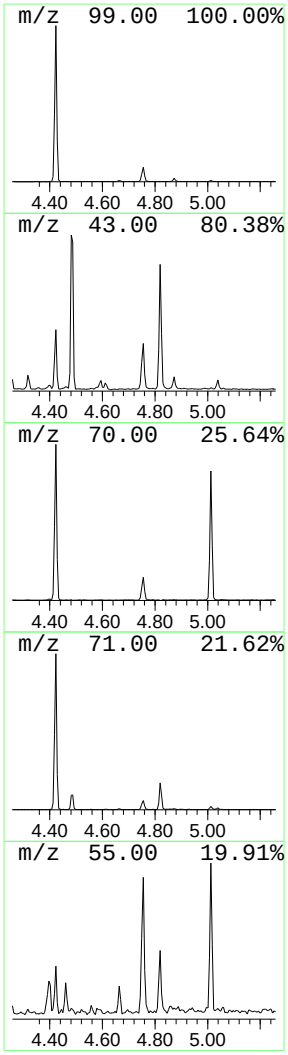
Peak Number 2 Unknown Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.755	4.09 ppm	223566	1,4-Dichlorobenzene-d4a	4.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Imidazol-4-one, 2-amino-1,5-d...	99	C3H5N3O	000503-86-6	53
2	3-Pentenoic acid, 4-methyl-	114	C6H10O2	000504-85-8	53
3	2-Methyl-2-butyl methylphosphono...	168	C6H14FO2P	159395-77-4	50
4	2(3H)-Furanone, 5-butyldihydro-4...	156	C9H16O2	055013-32-6	47
5	3,5-Diamino-1,2,4-triazole	99	C2H5N5	001455-77-2	43





Library Search Compound Report

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ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
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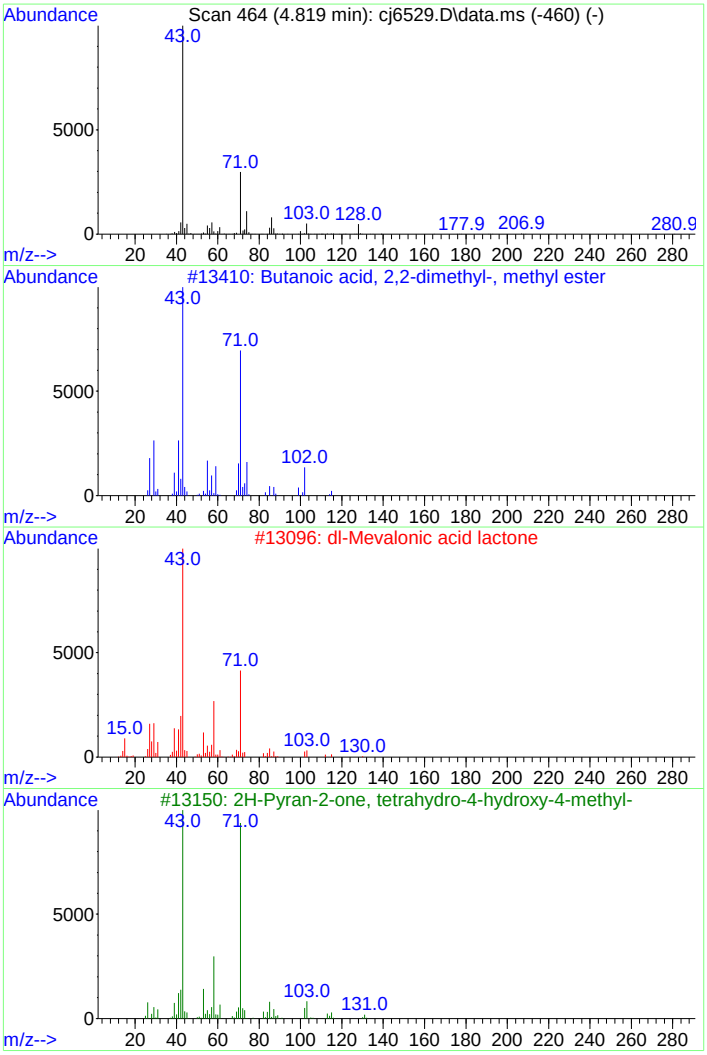
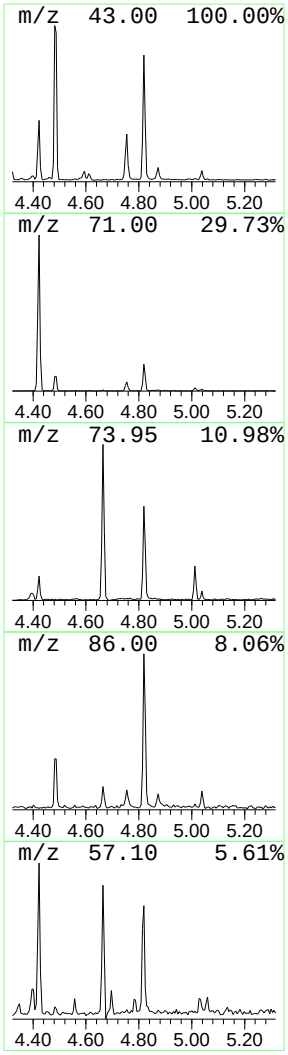
Peak Number 3 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.819	4.43 ppm	242155	1,4-Dichlorobenzene-d4a	4.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanoic acid, 2,2-dimethyl-, me...	130	C7H14O2	000813-67-2	42
2	dl-Mevalonic acid lactone	130	C6H10O3	000674-26-0	33
3	2H-Pyran-2-one, tetrahydro-4-hyd...	130	C6H10O3	000503-48-0	32
4	3,3-Dimethyl-2-pentanone	114	C7H14O	020669-04-9	28
5	2-Propanone, 1-hydroxy-	74	C3H6O2	000116-09-6	27





Library Search Compound Report

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Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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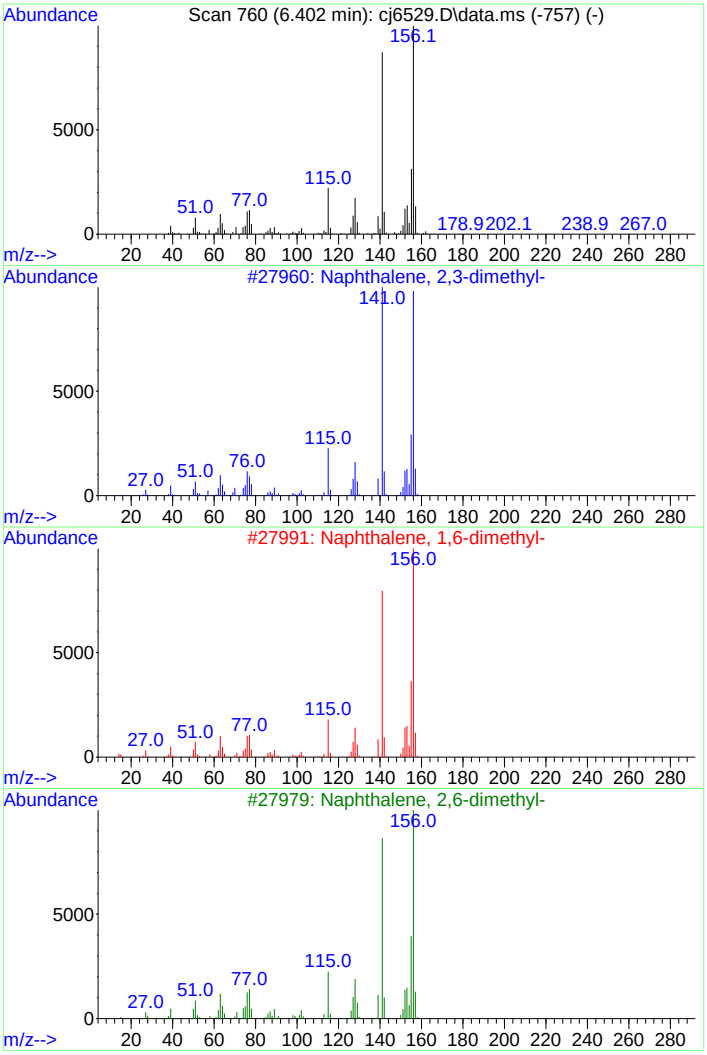
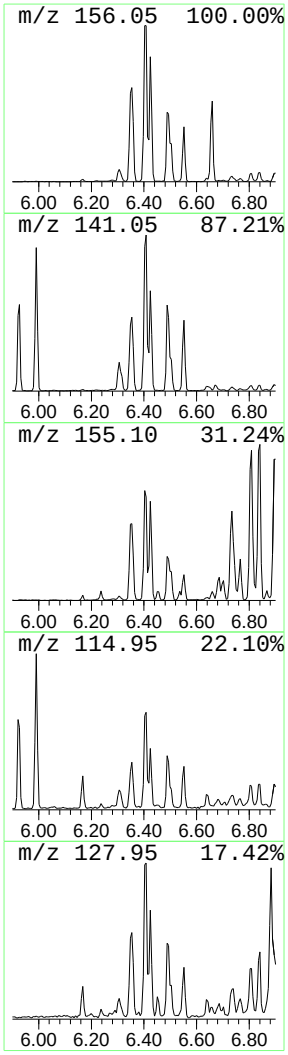
Peak Number 4 Naphthalene, dimethyl Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.402	5.74 ppm	453196	Acenaphthene-d10	6.659

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	98
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	98
5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97





Library Search Compound Report

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Data File : cj6529.D
Acq On : 09 May 2024 09:26 pm
Operator : rocquans
Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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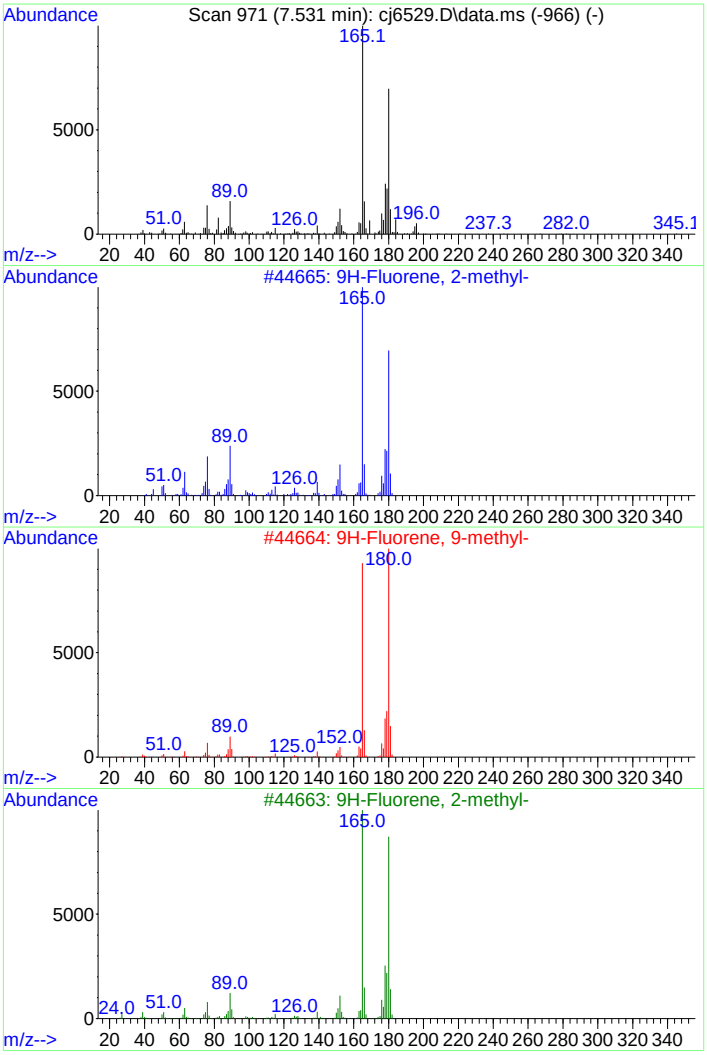
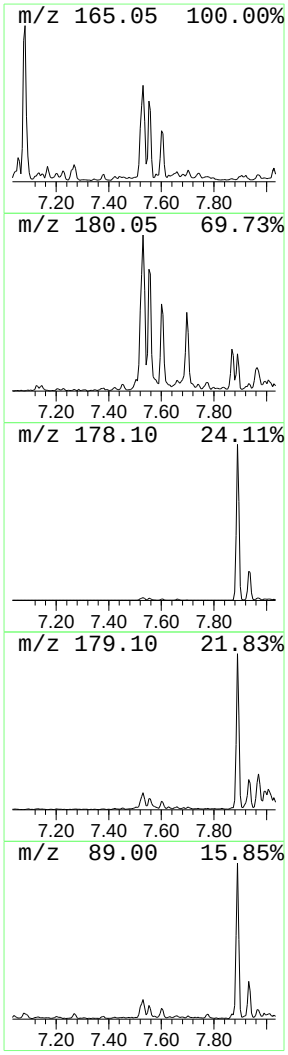
Peak Number 5 9H-Fluorene, methyl Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.531	4.35 ppm	333347	Phenanthrene-d10	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
2	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	90
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	90
4	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	90
5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	90





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Acq On : 09 May 2024 09:26 pm
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Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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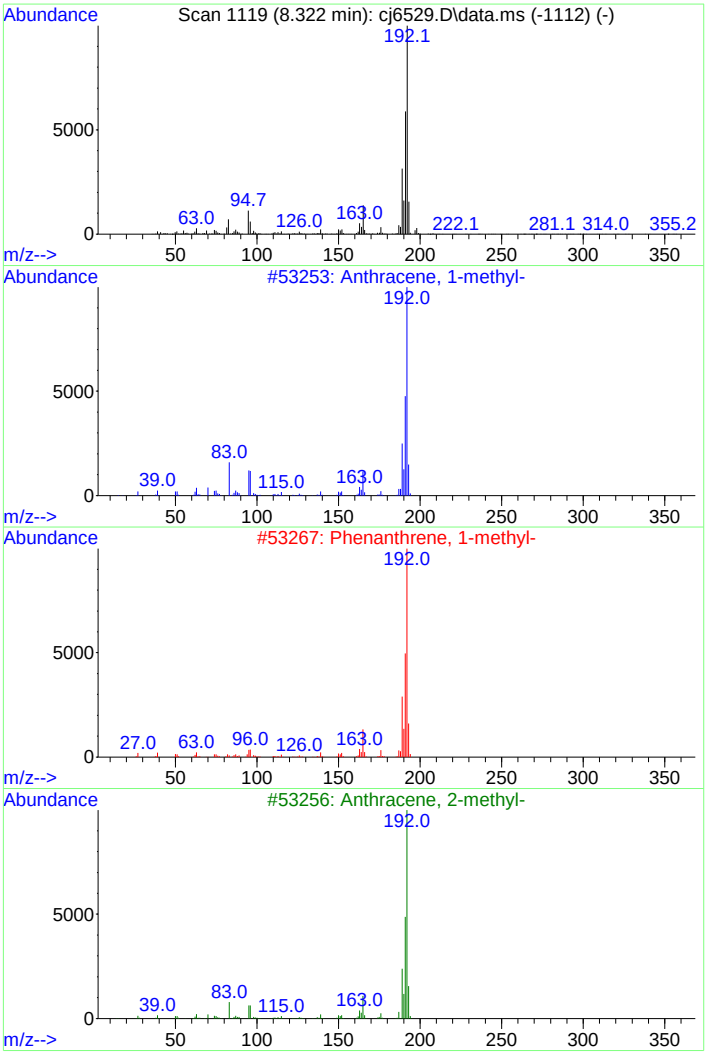
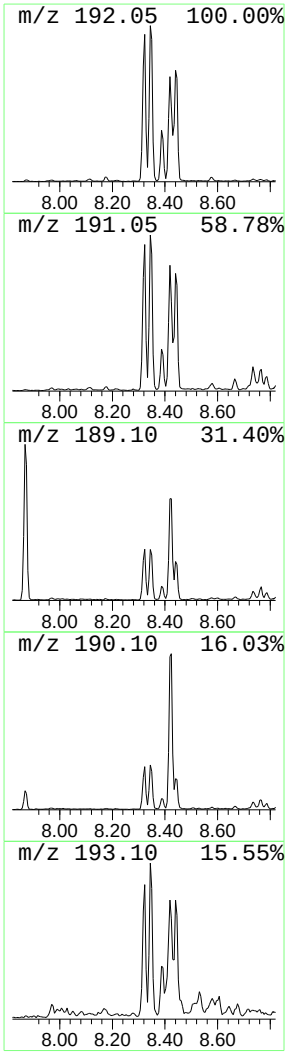
Peak Number 6 Anthracene, methyl Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.322	10.67 ppm	818042	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93





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Acq On : 09 May 2024 09:26 pm
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Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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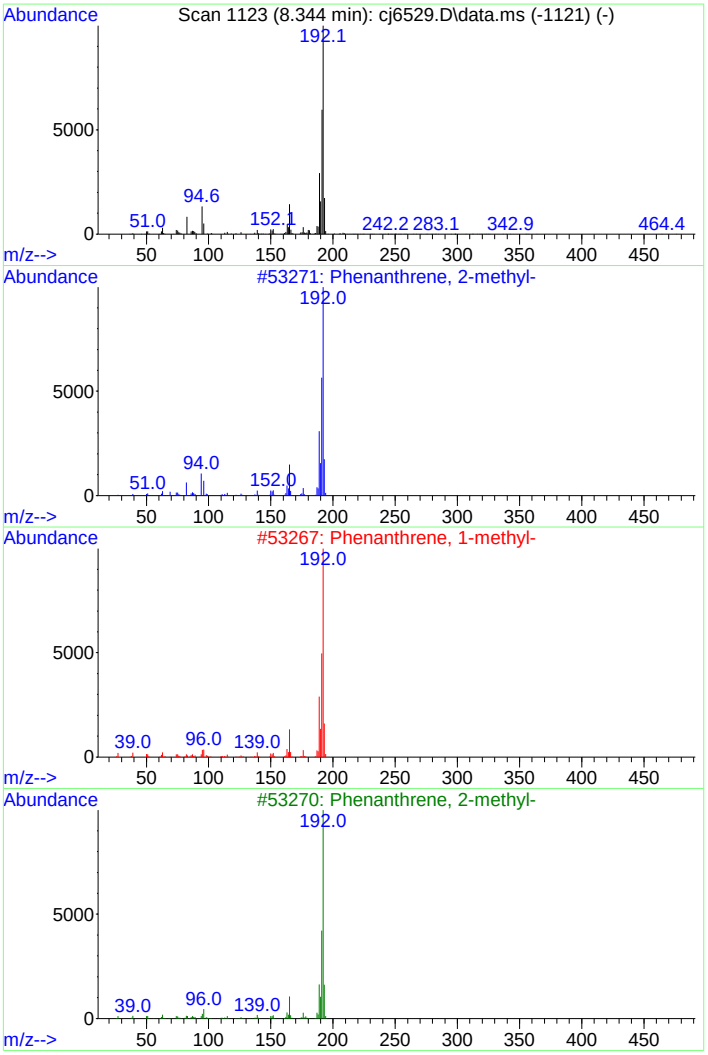
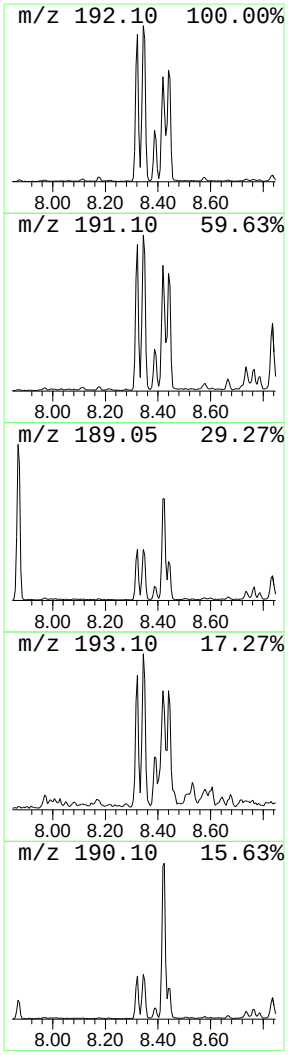
Peak Number 7 Phenanthrene, methyl Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.344	10.04 ppm	769855	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95





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Sample : jd87833-2
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ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
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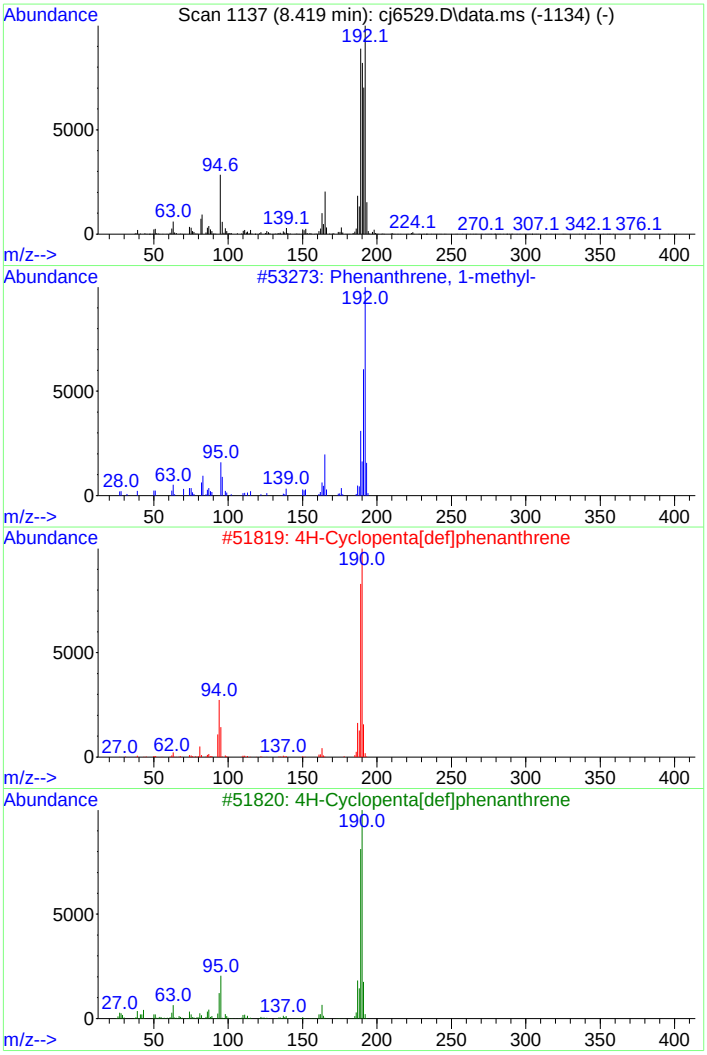
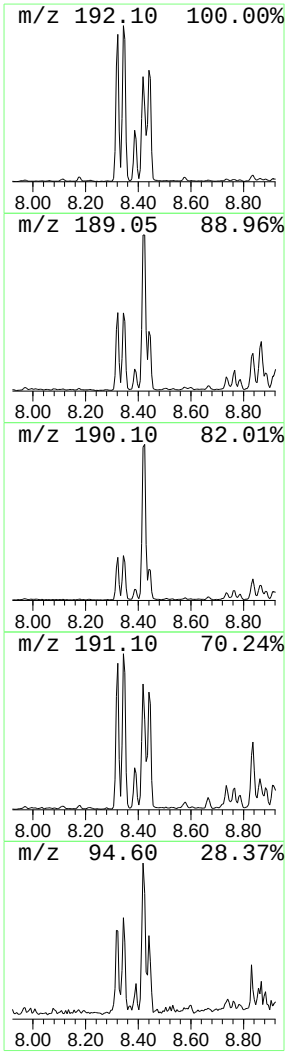
Peak Number 8 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.419	11.85 ppm	908922	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	60
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	46
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	46





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Sample : jd87833-2
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ALS Vial : 20 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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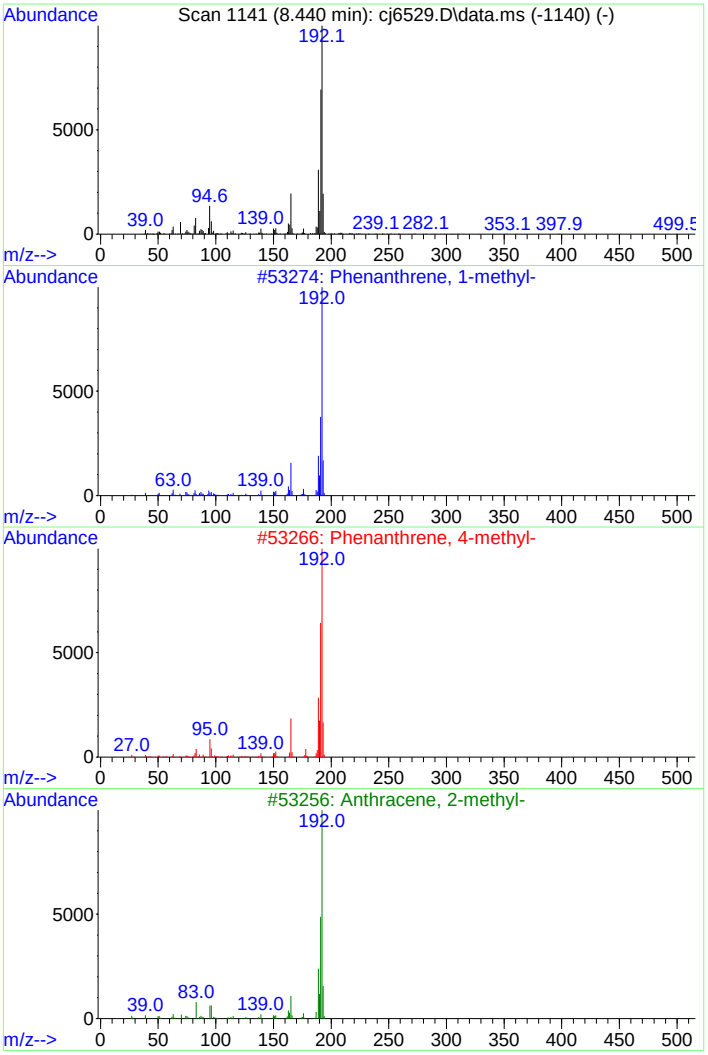
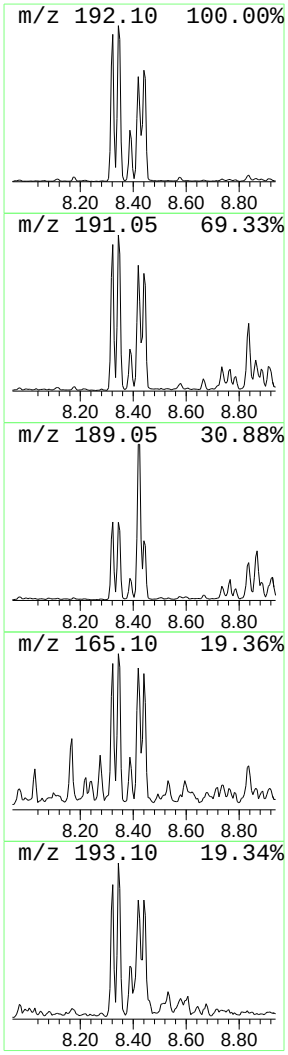
Peak Number 9 Phenanthrene, methyl Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.440	5.73 ppm	439341	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93





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Sample : jd87833-2
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ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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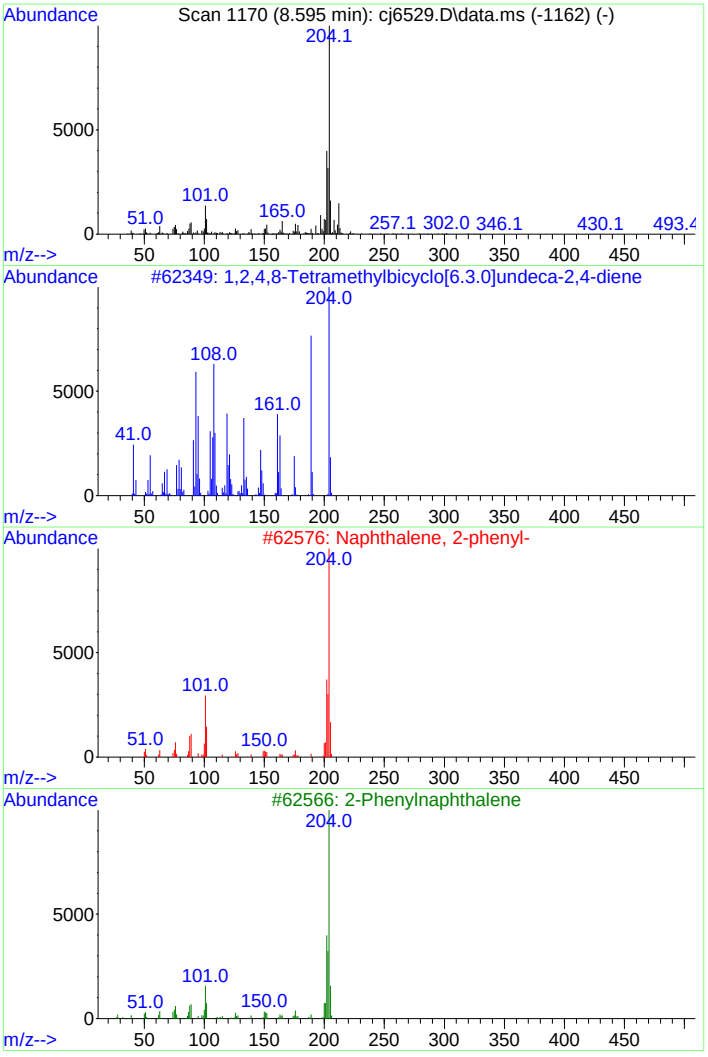
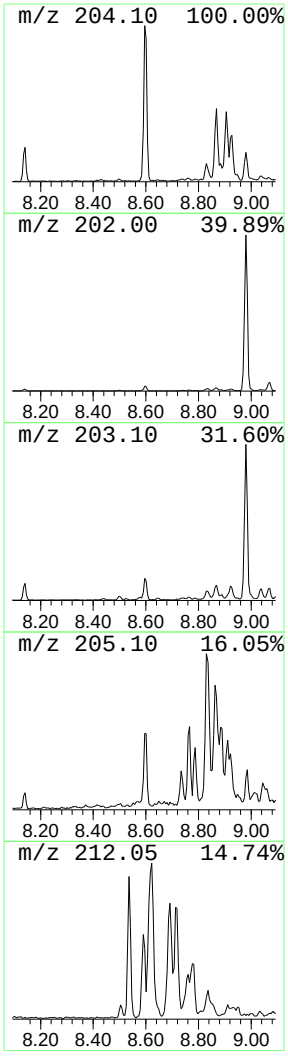
Peak Number 10 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.595	7.93 ppm	608443	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	80
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	78
3	2-Phenylnaphthalene	204	C16H12	035465-71-5	78
4	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	72
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	72





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Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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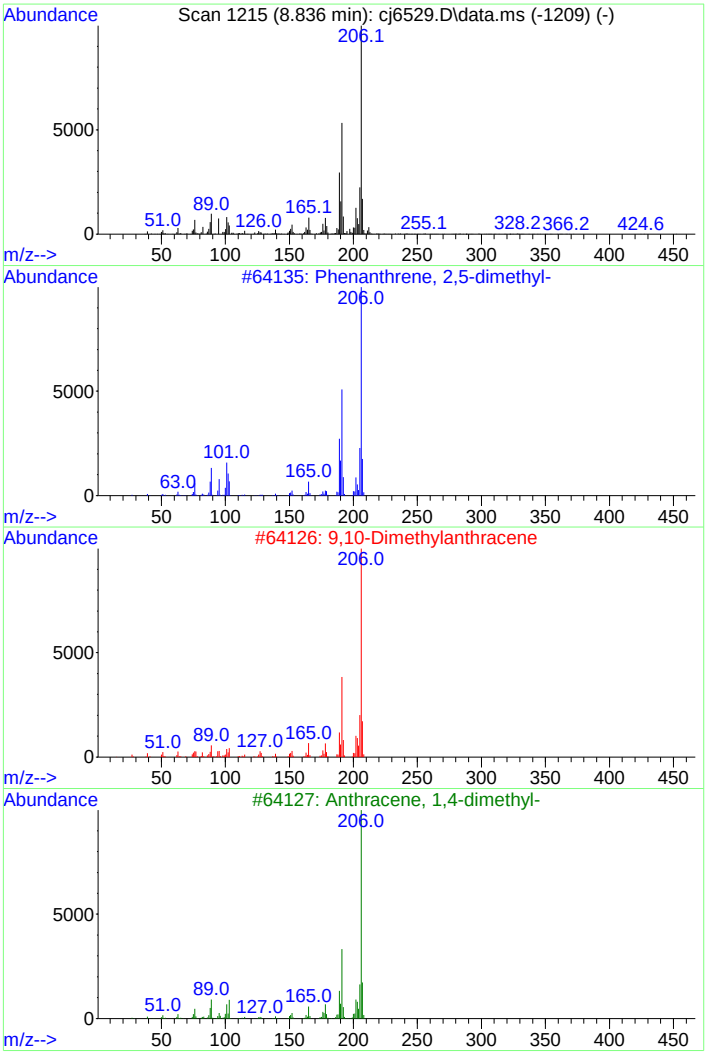
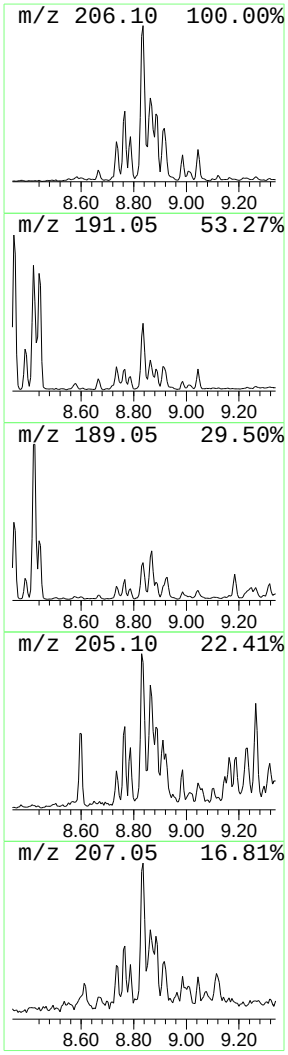
Peak Number 11 Phenanthrene, dimethyl Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.836	7.16 ppm	549269	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	94
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6529.D
Acq On : 09 May 2024 09:26 pm
Operator : rocquans
Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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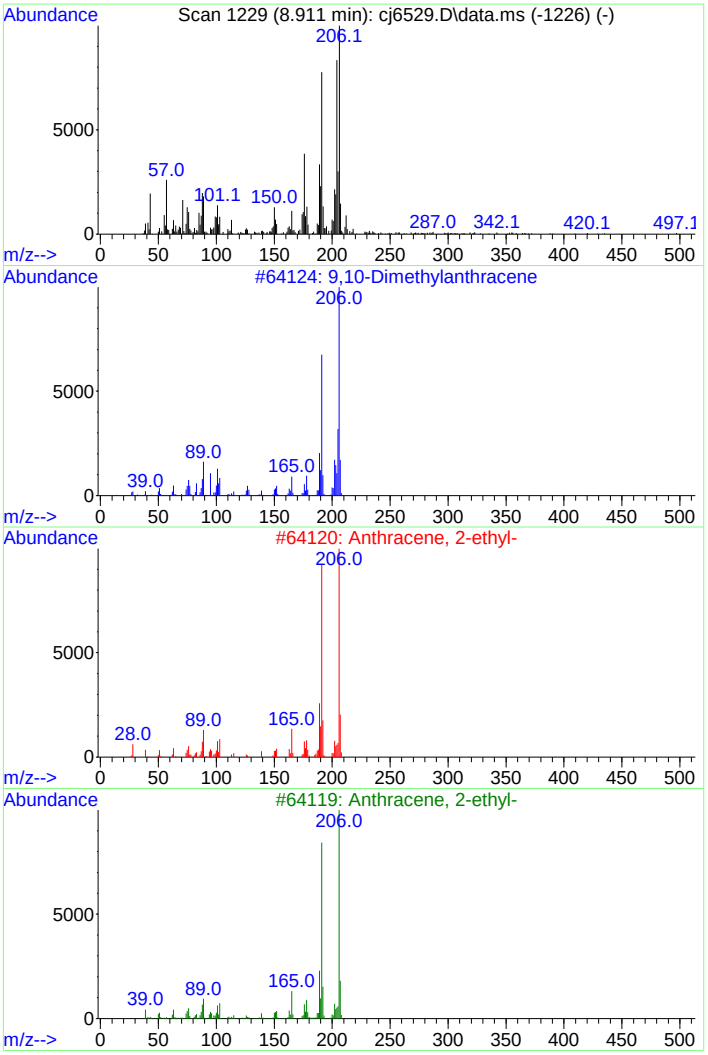
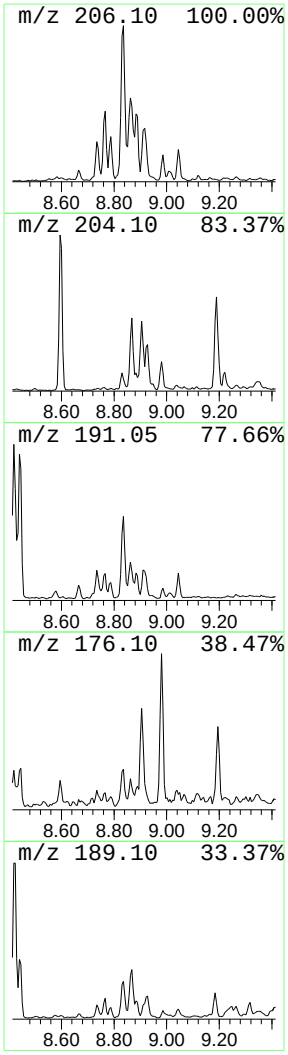
Peak Number 12 Anthracene, 2-ethyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.911	4.22 ppm	323415	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	89
2	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	86
3	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	86
4	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	70
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	55





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Operator : rocquans
Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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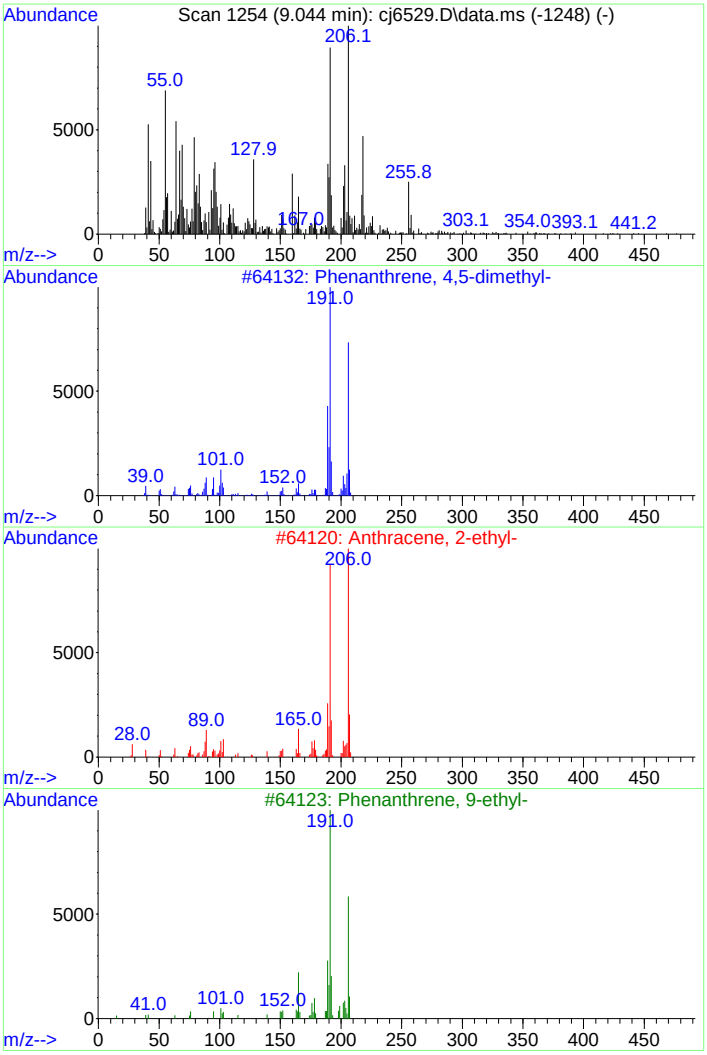
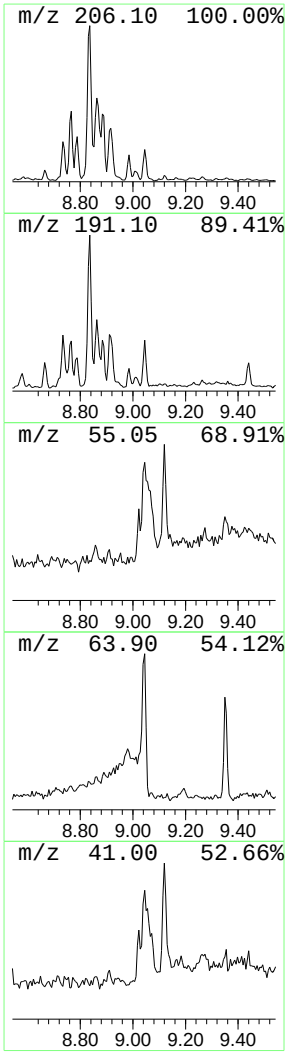
Peak Number 13 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.044	6.13 ppm	469777	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	55
2	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	42
3	Phenanthrene, 9-ethyl-	206	C16H14	003674-75-7	42
4	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	42
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	42





Library Search Compound Report

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Acq On : 09 May 2024 09:26 pm
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Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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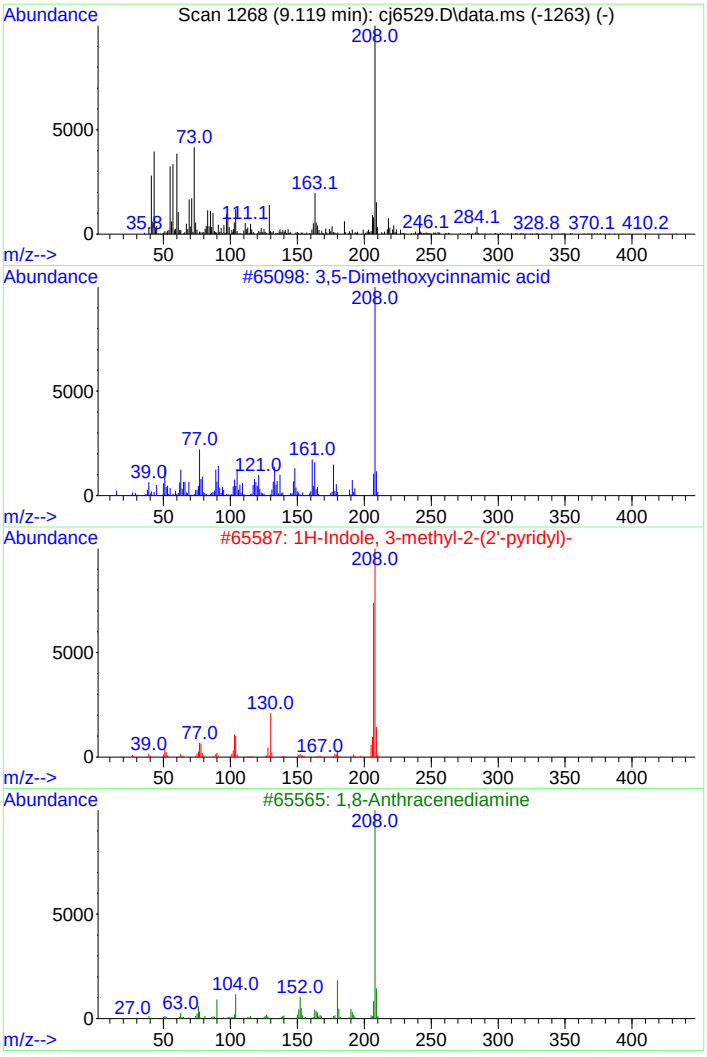
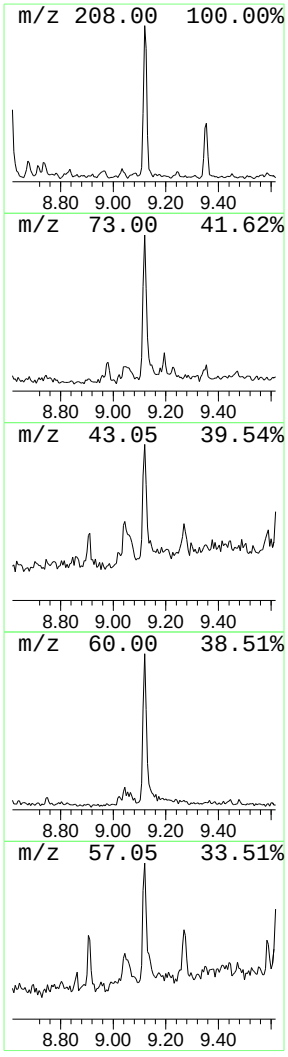
Peak Number 14 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.119	4.24 ppm	437661	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,5-Dimethoxycinnamic acid	208	C11H12O4	016909-11-8	43
2	1H-Indole, 3-methyl-2-(2'-pyridyl)-	208	C14H12N2	000951-25-7	43
3	1,8-Anthracenediamine	208	C14H12N2	139312-39-3	43
4	1H-Indazole, 6-methyl-1-phenyl-	208	C14H12N2	1000305-65-6	43
5	4,7-Dimethyl-1,10-phenanthroline	208	C14H12N2	003248-05-3	43





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Acq On : 09 May 2024 09:26 pm
Operator : rocquans
Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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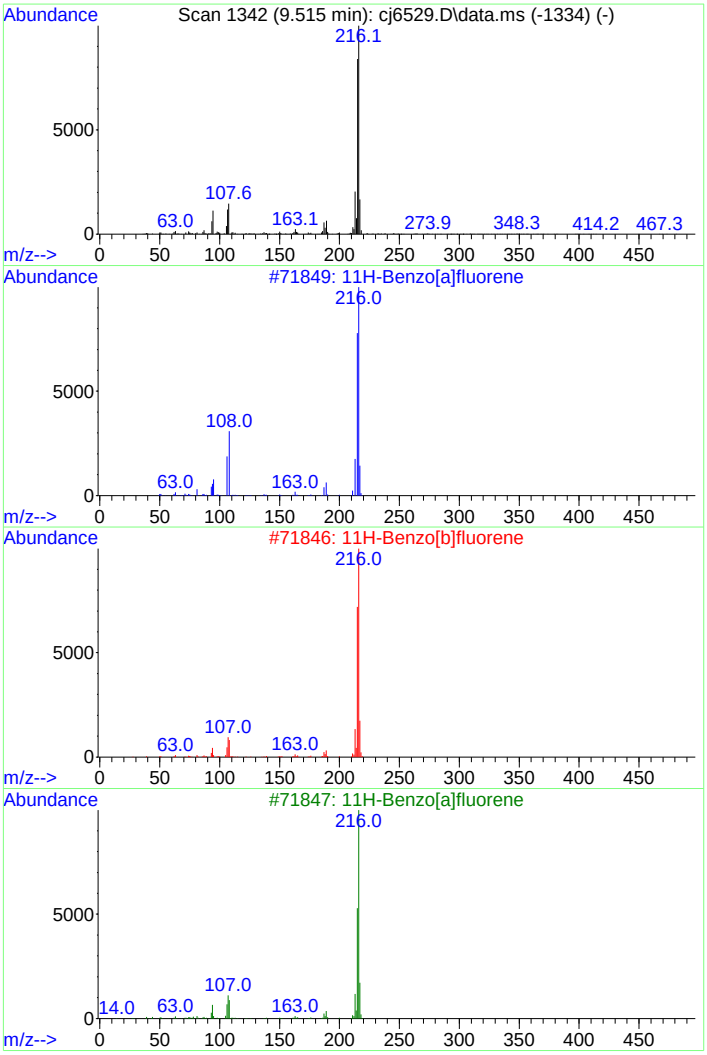
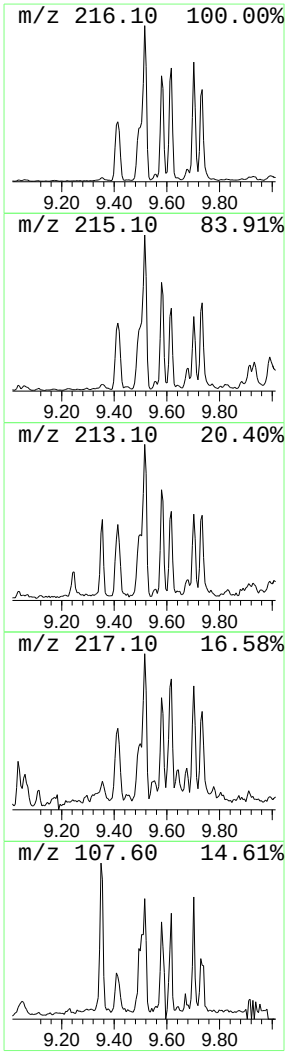
Peak Number 15 Unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.515	7.86 ppm	812471	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93





Library Search Compound Report

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Data File : cj6529.D
Acq On : 09 May 2024 09:26 pm
Operator : rocquans
Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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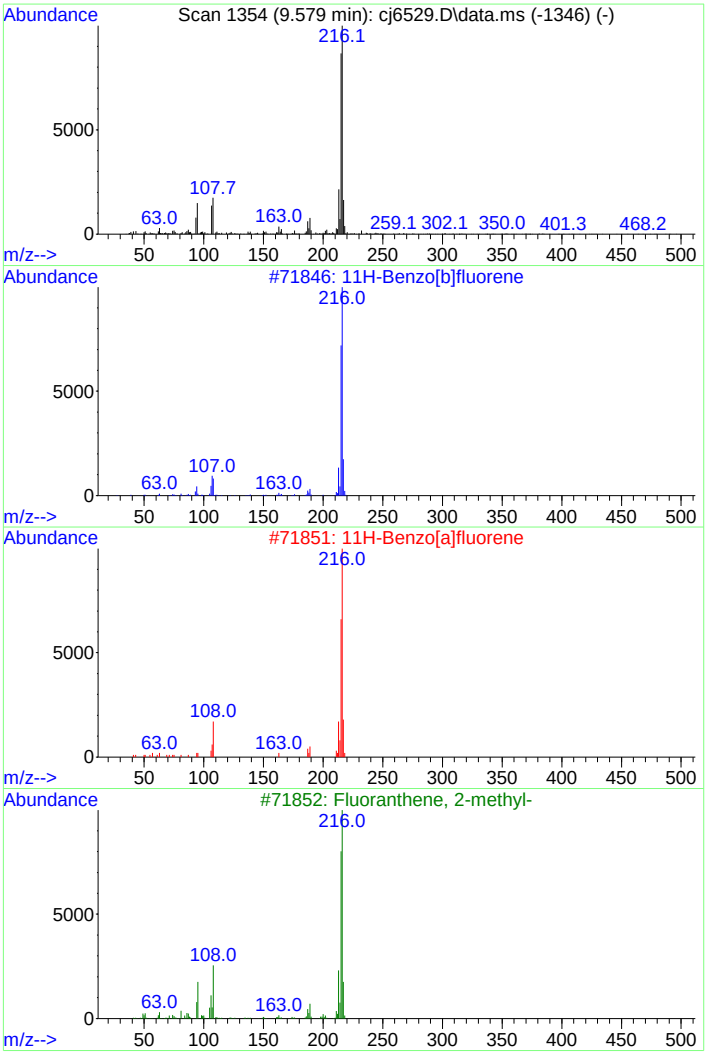
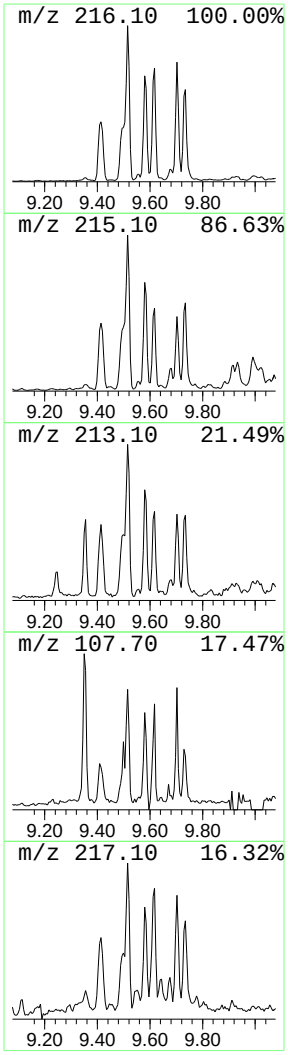
Peak Number 16 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.579	5.04 ppm	520402	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87





Library Search Compound Report

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Data File : cj6529.D
Acq On : 09 May 2024 09:26 pm
Operator : rocquans
Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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Peak Number 17 Pyrene, methyl Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.617	4.20 ppm	433563	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
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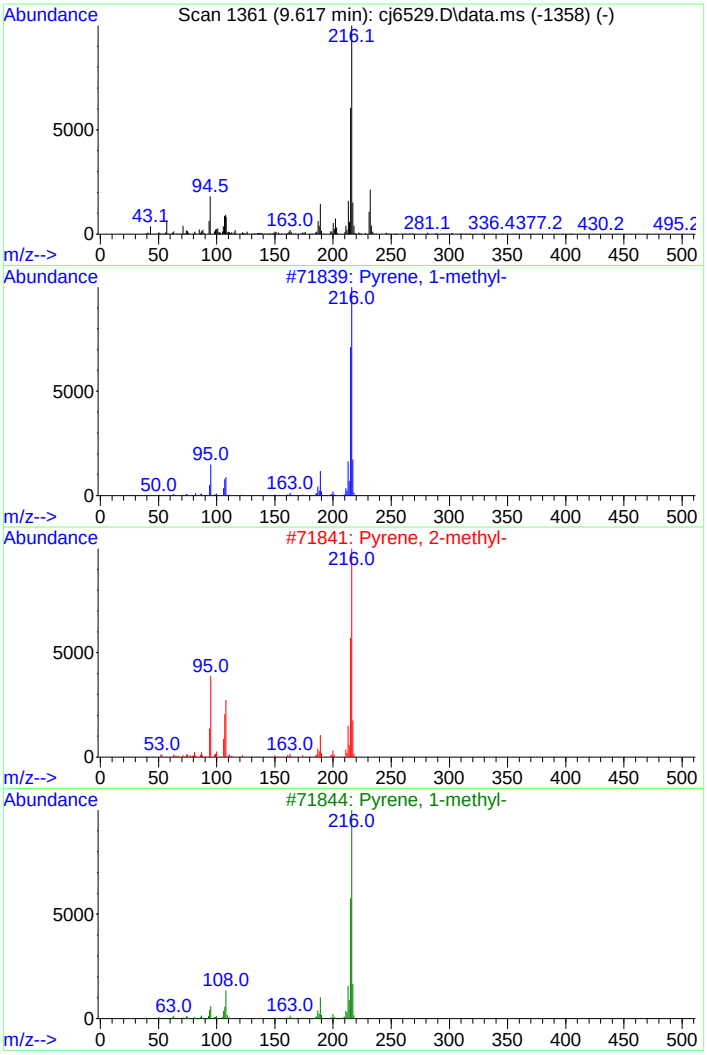
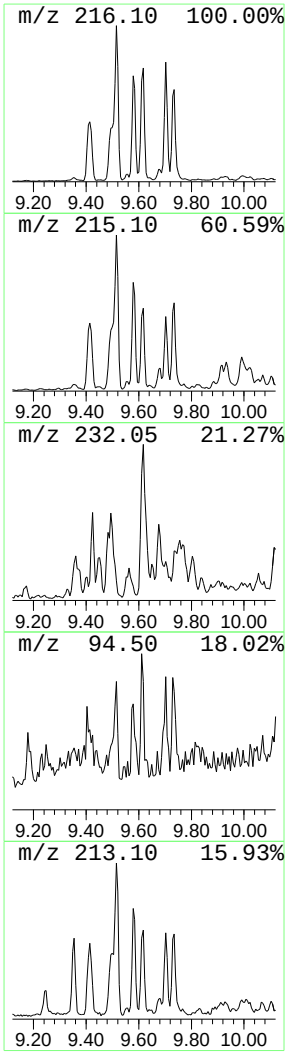
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	89





Library Search Compound Report

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Acq On : 09 May 2024 09:26 pm
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Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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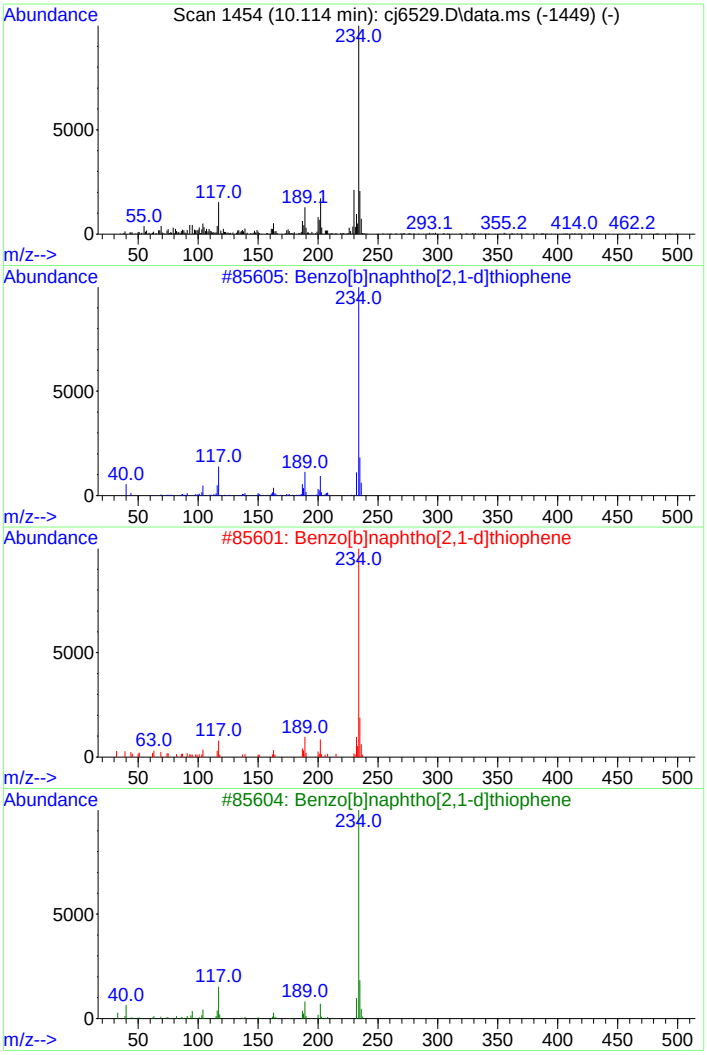
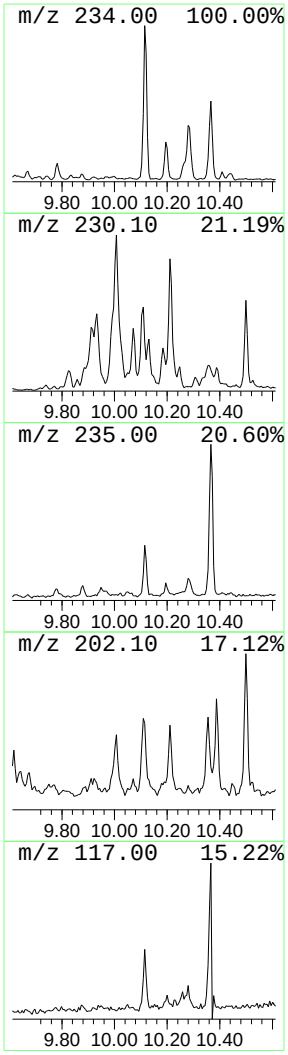
Peak Number 18 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.114	4.29 ppm	443407	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	95
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	95
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	95
4	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	94
5	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	93





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Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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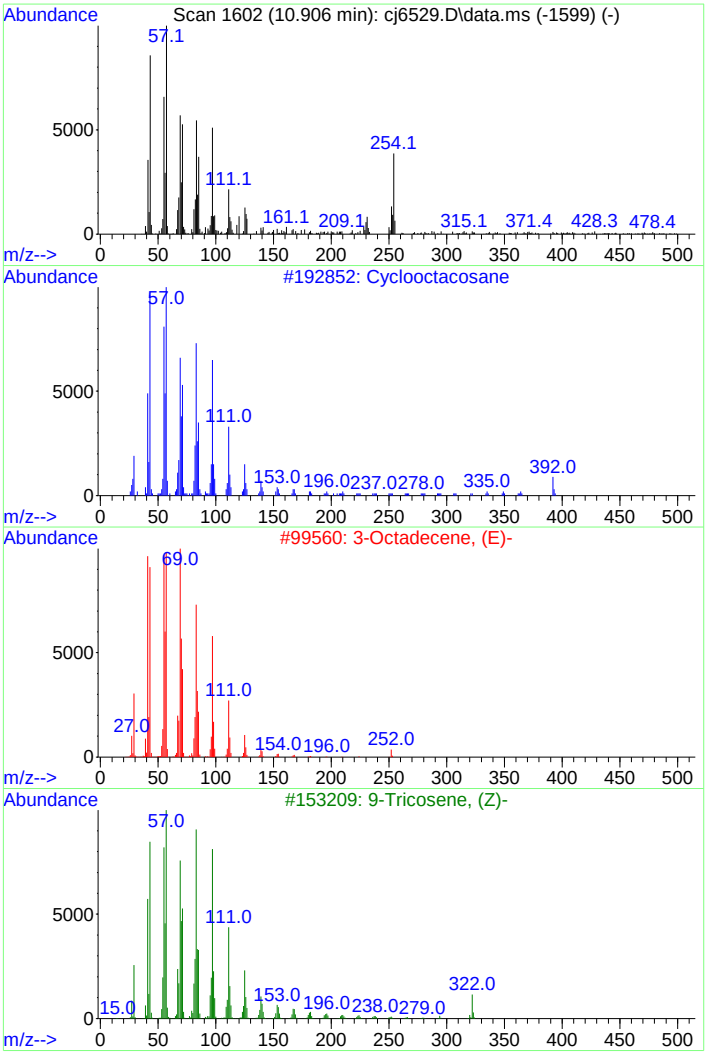
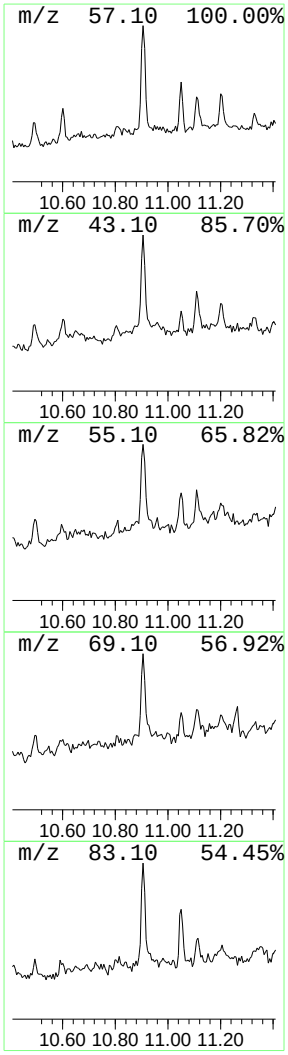
Peak Number 19 Alkene Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.906	4.10 ppm	423492	Chrysene-d12a	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclooctacosane	392	C28H56	000297-24-5	91
2	3-Octadecene, (E)-	252	C18H36	007206-19-1	81
3	9-Tricosene, (Z)-	322	C23H46	027519-02-4	64
4	1-Tricosene	322	C23H46	018835-32-0	64
5	1-Heptacosanol	396	C27H56O	002004-39-9	62





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Acq On : 09 May 2024 09:26 pm
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Sample : jd87833-2
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ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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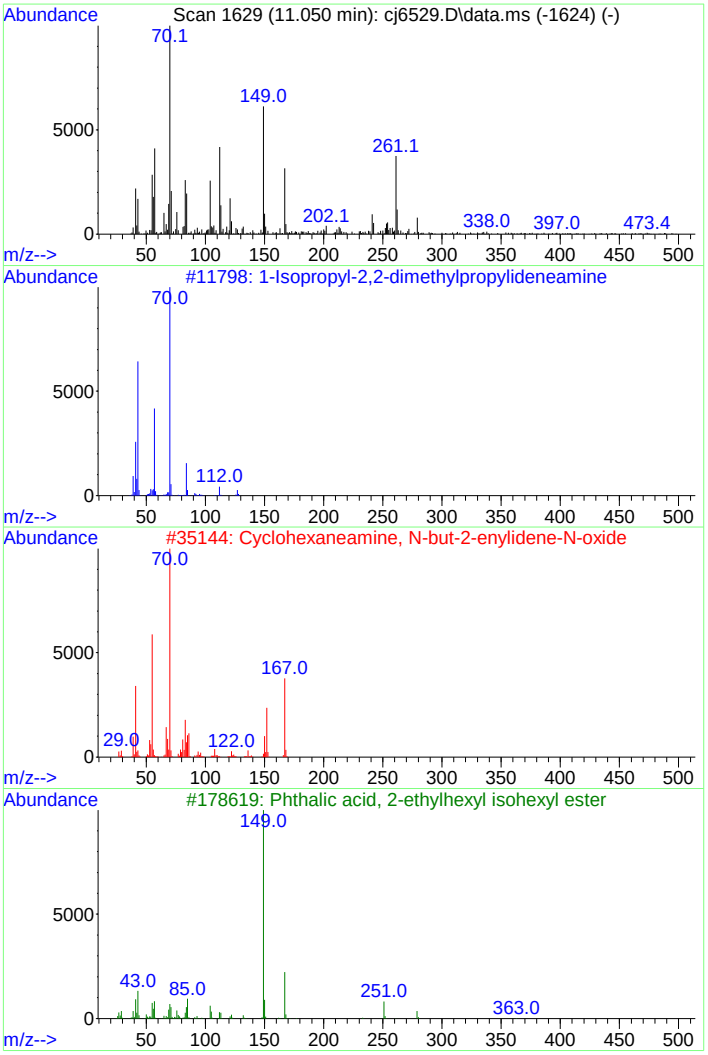
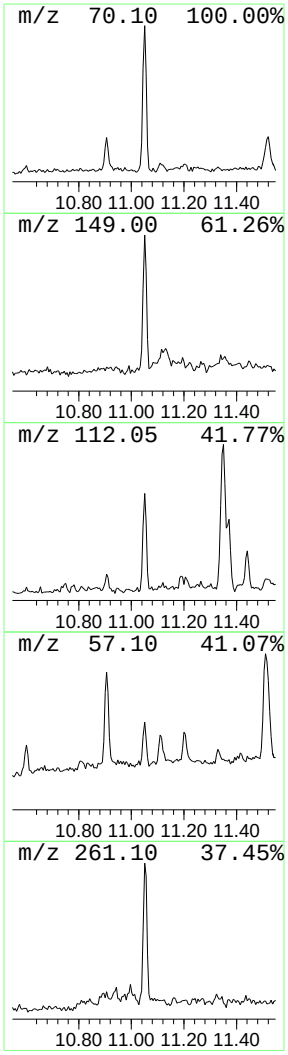
Peak Number 20 Unknown Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.050	4.42 ppm	338279	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropyl-2,2-dimethylpropylid...	127	C8H17N	1000210-05-3	27
2	Cyclohexaneamine, N-but-2-enylid...	167	C10H17NO	068048-01-1	27
3	Phthalic acid, 2-ethylhexyl isoh...	362	C22H34O4	1000308-98-5	22
4	Acetic acid, [4-(4-methyl-1-pipe...	262	C14H18N2O3	346699-90-9	22
5	Di-n-octyl phthalate	390	C24H38O4	000117-84-0	18





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Sample : jd87833-2
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ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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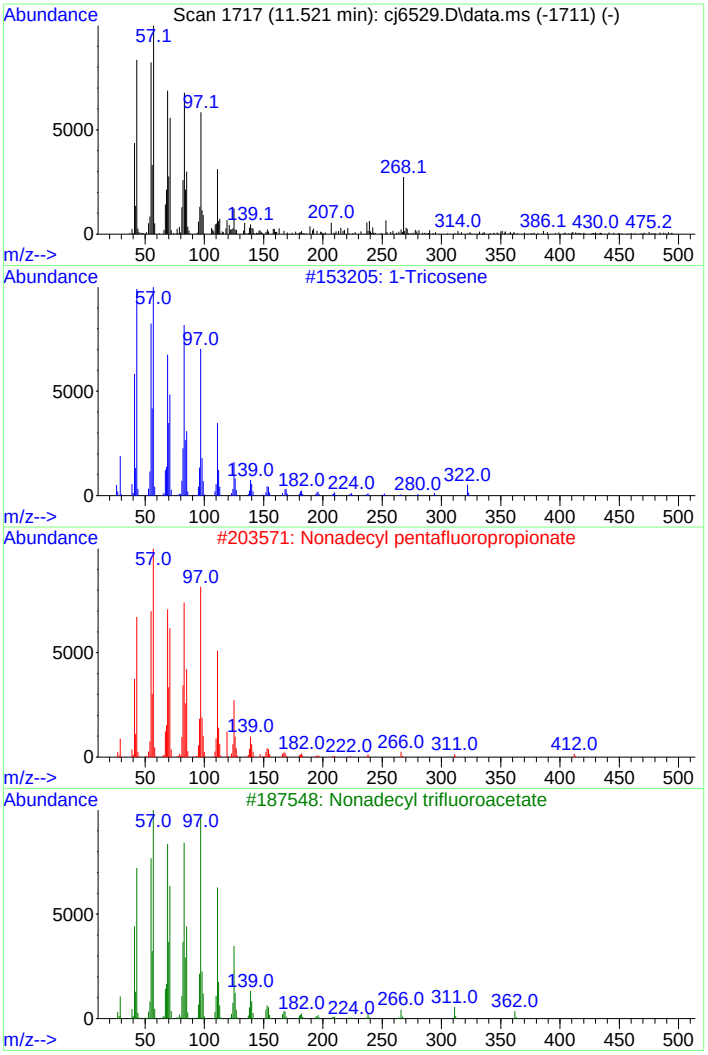
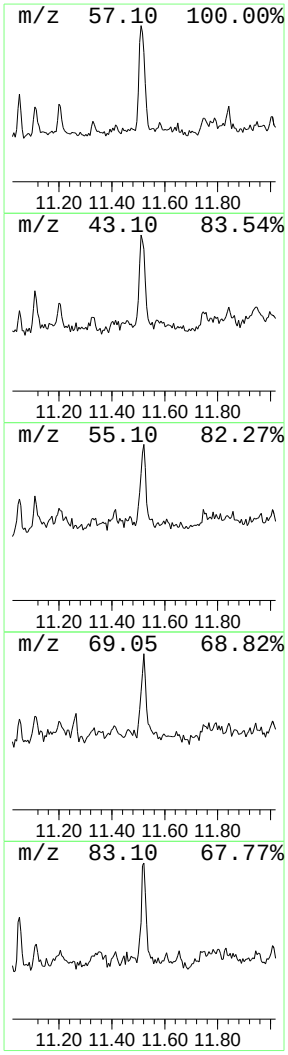
Peak Number 21 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.521	6.18 ppm	472497	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Tricosene	322	C23H46	018835-32-0	87
2	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	87
3	Nonadecyl trifluoroacetate	380	C21H39F3O2	1000351-76-3	87
4	Octadecyl pentafluoropropionate	416	C21H37F5O2	1000351-80-7	83
5	Heneicosyl trifluoroacetate	408	C23H43F3O2	1000351-76-5	83





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Sample : jd87833-2
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ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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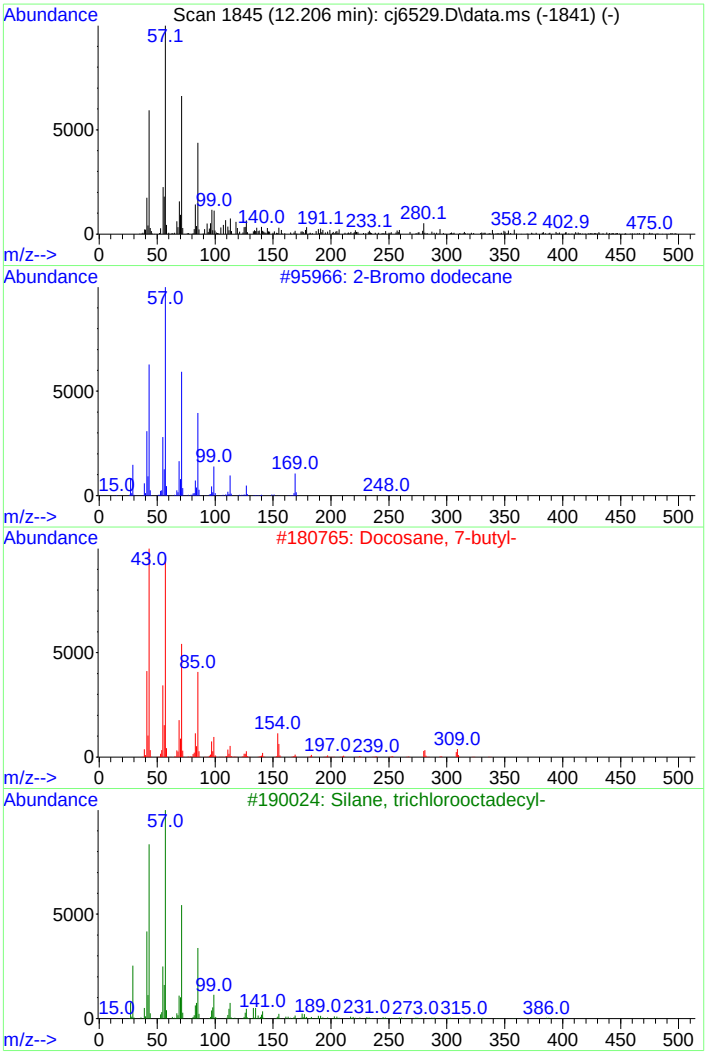
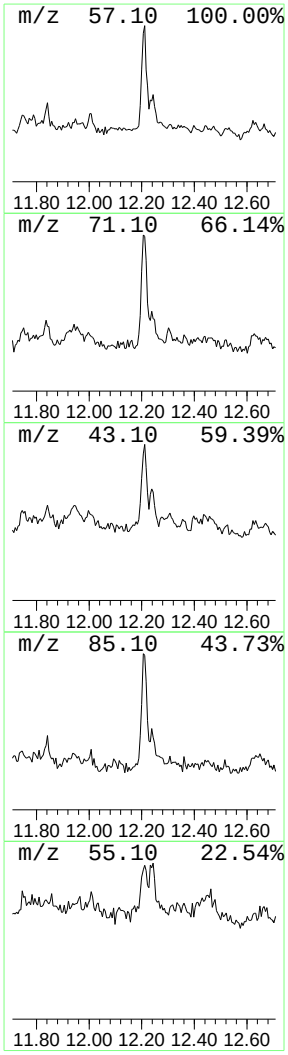
Peak Number 22 System artifact Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.206	4.42 ppm	337867	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Bromo dodecane	248	C12H25Br	013187-99-0	91
2	Docosane, 7-butyl-	366	C26H54	055282-15-0	86
3	Silane, trichlorooctadecyl-	386	C18H37Cl3Si	000112-04-9	83
4	Docosane, 11-butyl-	366	C26H54	013475-76-8	80
5	Sulfurous acid, butyl decyl ester	278	C14H30O3S	1000309-17-7	80





Library Search Compound Report

```
Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6529.D
Acq On    : 09 May 2024  09:26 pm
Operator  : rocquans
Sample    : jd87833-2
Misc      : op54460,ecj297,31.0,,,1,1
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title  : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

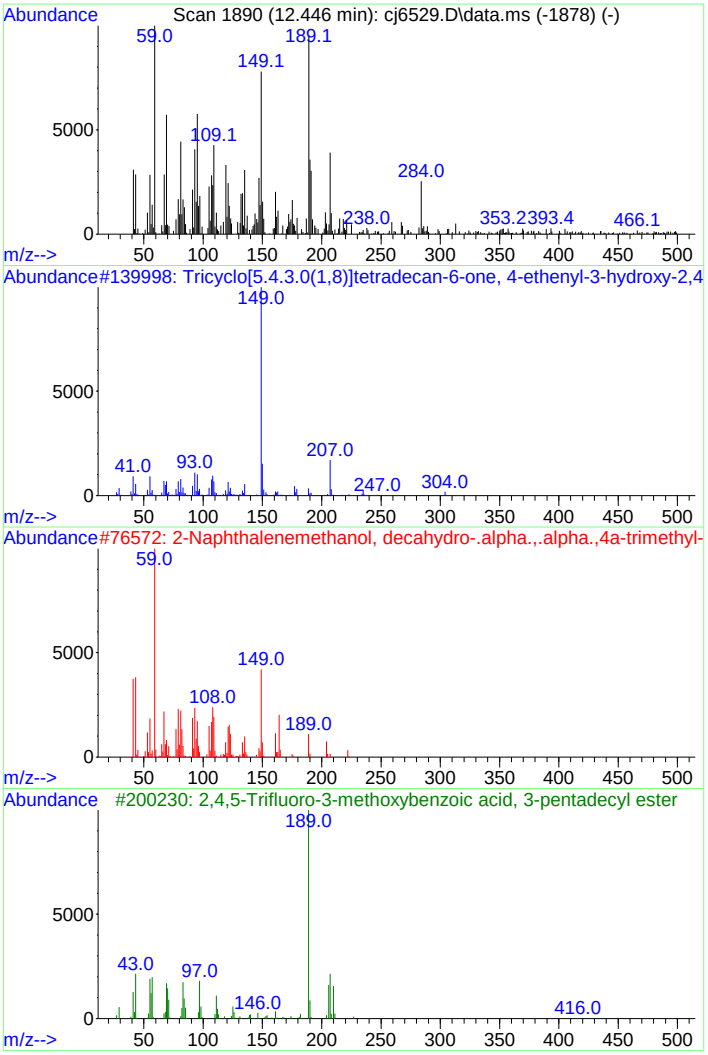
TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```

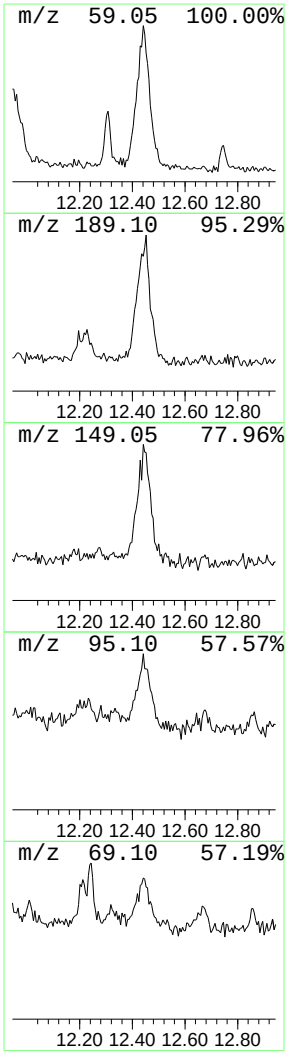
****

Peak Number 23 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.446	11.07 ppm	847091	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricyclo[5.4.3.0(1,8)]tetradecan...	304	C20H32O2	1000197-61-7	22
2	2-Naphthalenemethanol, decahydro...	222	C15H26O	000473-15-4	14
3	2,4,5-Trifluoro-3-methoxybenzoic...	416	C23H35F3O3	1000338-46-6	11
4	2,4,7,14-Tetramethyl-4-vinyl-tri...	290	C20H34O	1000193-31-2	11
5	Benzothiazole, 2-methyl-	149	C8H7NS	000120-75-2	11





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6529.D
Acq On : 09 May 2024 09:26 pm
Operator : rocquans
Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

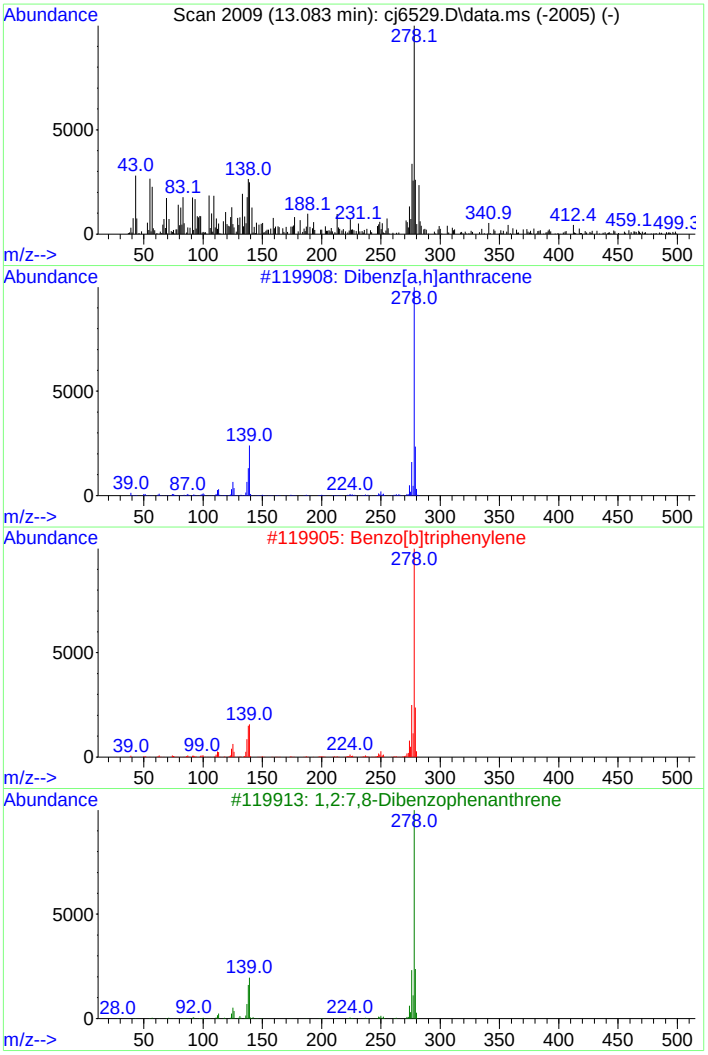
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

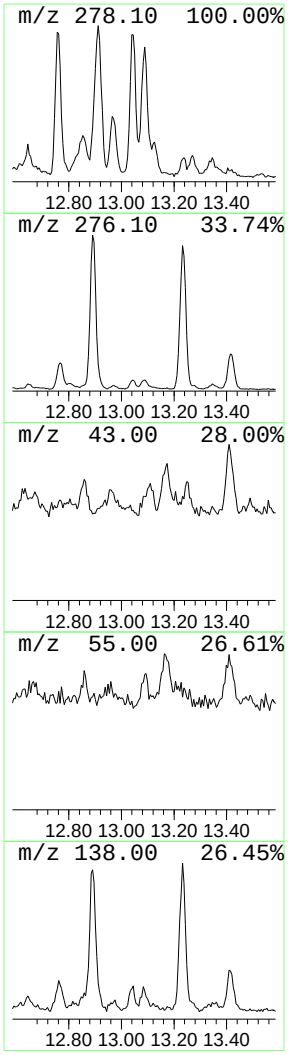
****

Peak Number 24 Unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.083	4.32 ppm	330505	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	60
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	58
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	58
4	Benzo[b]triphenylene	278	C22H14	000215-58-7	58
5	Dibenzo[b,h][1,6]naphthyridine, ...	278	C17H11ClN2	004240-91-9	49





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6529.D
Acq On : 09 May 2024 09:26 pm
Operator : rocquans
Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

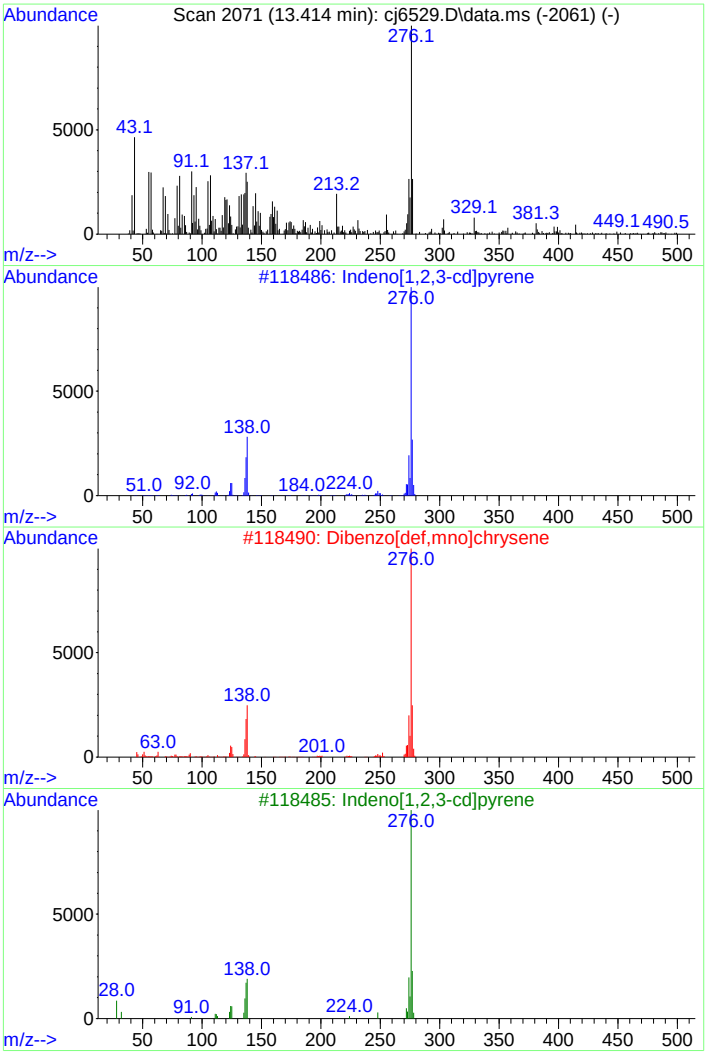
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

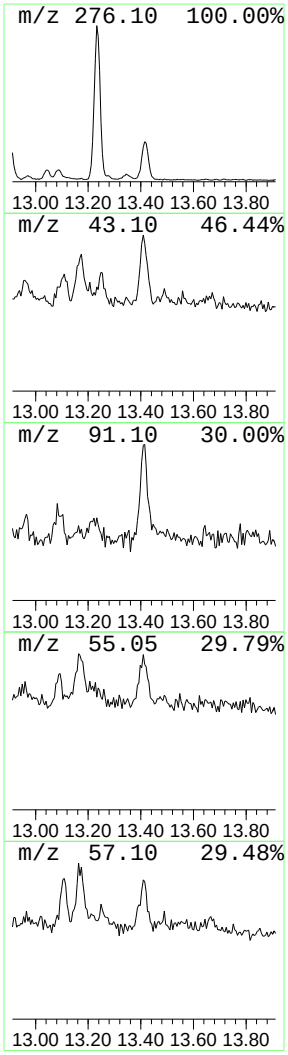
****

Peak Number 25 Unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.414	8.02 ppm	613717	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	64
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	64
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	49
4	Benzo[ghi]perylene	276	C22H12	000191-24-2	49
5	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	47





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6529.D
Acq On : 09 May 2024 09:26 pm
Operator : rocquans
Sample : jd87833-2
Misc : op54460,ecj297,31.0,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.247	7.8	ppm	423953	2	4.664	2185250	40.0
Unknown	4.755	4.1	ppm	223566	2	4.664	2185250	40.0
Unknown	4.819	4.4	ppm	242155	2	4.664	2185250	40.0
Naphthalene, di...	6.402	5.7	ppm	453196	5	6.659	3157690	40.0
9H-Fluorene, me...	7.531	4.3	ppm	333347	6	7.868	3067310	40.0
Anthracene, methyl	8.322	10.7	ppm	818042	8	7.868	3067310	40.0
Phenanthrene, m...	8.344	10.0	ppm	769855	8	7.868	3067310	40.0
Unknown	8.419	11.9	ppm	908922	8	7.868	3067310	40.0
Phenanthrene, m...	8.440	5.7	ppm	439341	8	7.868	3067310	40.0
Unknown	8.595	7.9	ppm	608443	8	7.868	3067310	40.0
Phenanthrene, d...	8.836	7.2	ppm	549269	8	7.868	3067310	40.0
Anthracene, 2-e...	8.911	4.2	ppm	323415	8	7.868	3067310	40.0
Unknown	9.044	6.1	ppm	469777	8	7.868	3067310	40.0
Unknown	9.119	4.2	ppm	437661	9	10.366	4133100	40.0
Unknown	9.515	7.9	ppm	812471	9	10.366	4133100	40.0
Unknown	9.579	5.0	ppm	520402	9	10.366	4133100	40.0
Pyrene, methyl	9.617	4.2	ppm	433563	9	10.366	4133100	40.0
Benzo[b]naphtho...	10.114	4.3	ppm	443407	9	10.366	4133100	40.0
Alkene	10.906	4.1	ppm	423492	10	10.366	4133100	40.0
Unknown	11.050	4.4	ppm	338279	11	11.714	3060170	40.0
Unknown	11.521	6.2	ppm	472497	11	11.714	3060170	40.0
System artifact	12.206	4.4	ppm	337867	11	11.714	3060170	40.0
Unknown	12.446	11.1	ppm	847091	11	11.714	3060170	40.0
Unknown	13.083	4.3	ppm	330505	11	11.714	3060170	40.0
Unknown	13.414	8.0	ppm	613717	11	11.714	3060170	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jacky Takeuchi 05/10/24 22:00

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6525.D
Acq On : 09 May 2024 08:11 pm
Operator : rocquans
Sample : jd87833-3 Inst : GCMSCJ
Misc : op54460,ecj297,30.9,,,1,2
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 10 18:39:31 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

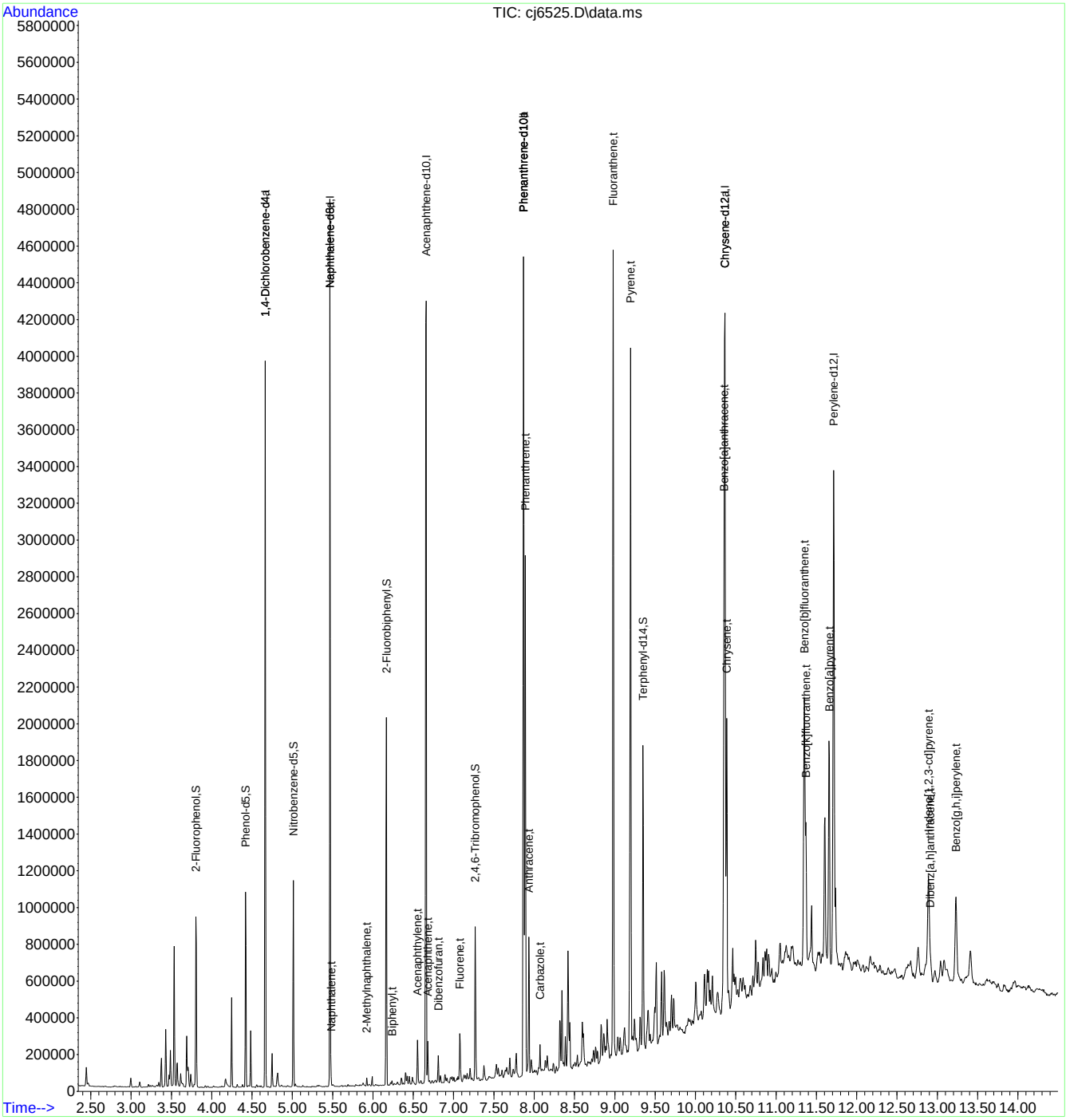
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.664	152	371394	40.00	ppm	0.00
24) Naphthalene-d8	5.466	136	1320304	40.00	ppm	0.00
46) Acenaphthene-d10	6.659	164	765413	40.00	ppm	0.00
69) Phenanthrene-d10	7.868	188	1361747	40.00	ppm	0.00
84) Chrysene-d12	10.366	240	942754	40.00	ppm	0.00
93) Perylene-d12	11.714	264	959803	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.664	152	371394	40.00	ppm	0.00
105) Phenanthrene-d10a	7.868	188	1361747	40.00	ppm	0.00
107) Naphthalene-d8a	5.466	136	1320304	40.00	ppm	0.00
109) Phenanthrene-d10b	7.868	188	1361747	40.00	ppm	0.00
112) Chrysene-d12a	10.366	240	942754	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.803	112	174507	16.35	ppm	0.00
Spiked Amount 50.000			Recovery = 32.70%			
8) Phenol-d5	4.418	99	233185	16.94	ppm	0.00
Spiked Amount 50.000			Recovery = 33.88%			
25) Nitrobenzene-d5	5.012	82	227204	16.81	ppm	0.00
Spiked Amount 50.000			Recovery = 33.62%			
51) 2-Fluorobiphenyl	6.167	172	428799	17.80	ppm	0.00
Spiked Amount 50.000			Recovery = 35.60%			
74) 2,4,6-Tribromophenol	7.269	330	57277	19.18	ppm	0.00
Spiked Amount 50.000			Recovery = 38.36%			
87) Terphenyl-d14	9.349	244	435670	18.70	ppm	0.00
Spiked Amount 50.000			Recovery = 37.40%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
38) Naphthalene	5.482	128	14902	0.4712	ppm	98
44) 2-Methylnaphthalene	5.921	141	7338	0.3913	ppm	90
53) Biphenyl	6.236	154	5103	0.1940	ppm	87
56) Acenaphthylene	6.552	152	73751	2.4843	ppm	99
59) Acenaphthene	6.680	153	38391	1.8185	ppm	98
62) Dibenzofuran	6.809	168	34731	1.1855	ppm	98
66) Fluorene	7.076	166	65318	2.8223	ppm	98
78) Phenanthrene	7.889	178	779881	23.6976	ppm	99
79) Anthracene	7.932	178	242660	7.3639	ppm	98
80) Carbazole	8.071	167	47697	1.5533	ppm	99
82) Fluoranthene	8.980	202	1532240	43.0062	ppm	99
86) Pyrene	9.194	202	1375233	42.8934	ppm	98
89) Benzo[a]anthracene	10.355	228	619873	20.4498	ppm	97
91) Chrysene	10.387	228	494809	17.6929	ppm	98
95) Benzo[b]fluoranthene	11.350	252	680593m	23.4733	ppm	
96) Benzo[k]fluoranthene	11.371	252	173014m	6.6314	ppm	
97) Benzo[a]pyrene	11.660	252	478307	19.9276	ppm	99
98) Indeno[1,2,3-cd]pyrene	12.890	276	298394	10.2836	ppm	98
100) Dibenz[a,h]anthracene	12.912	278	73052	3.1508	ppm	95
102) Benzo[g,h,i]perylene	13.233	276	278104	12.3332	ppm	98

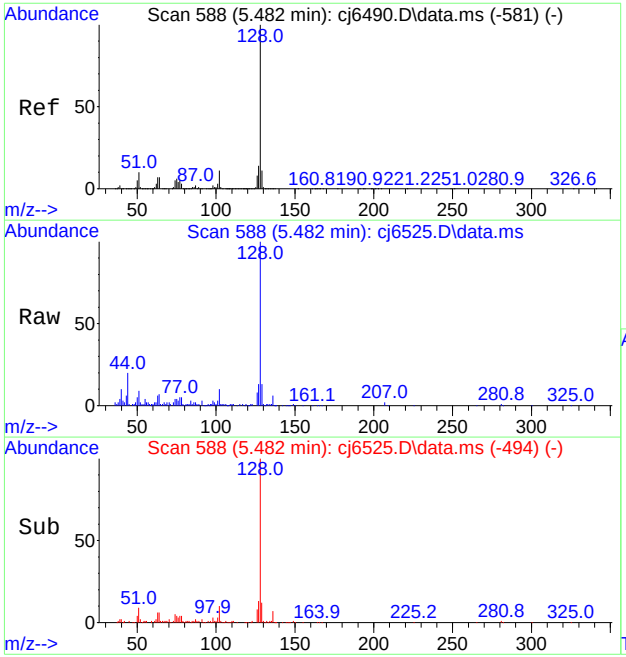
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6525.D
Acq On : 09 May 2024 08:11 pm
Operator : rocquans
Sample : jd87833-3 Inst : GCMSCJ
Misc : op54460,ecj297,30.9,,,1,2
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 10 18:39:31 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

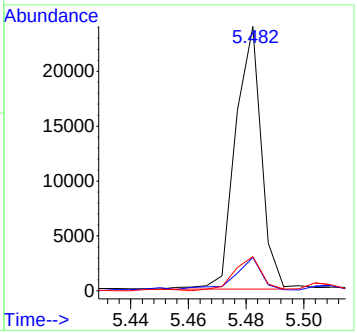


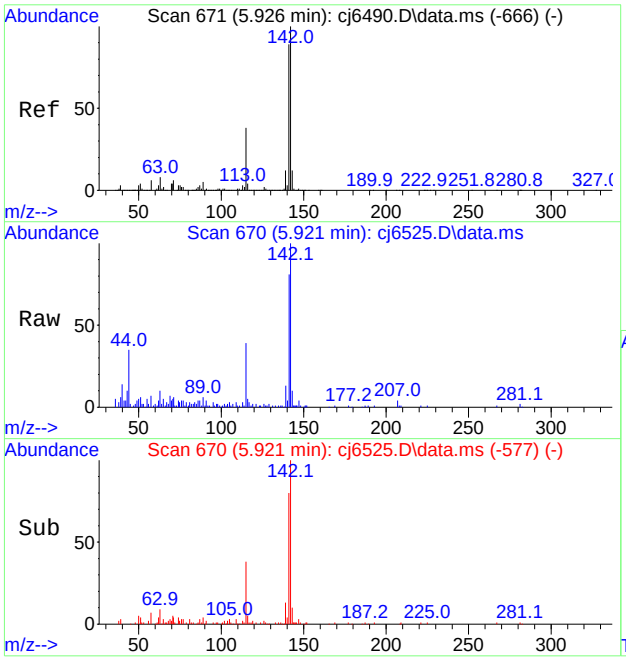


#38
Naphthalene
Concen: 0.4712 ppm
RT: 5.482 min Scan# 588
Delta R.T. 0.000 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:128 Resp: 14902

Ion	Ratio	Lower	Upper
128	100		
129	12.0	0.0	41.4
127	12.5	0.0	43.3

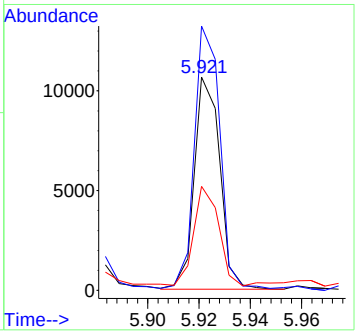


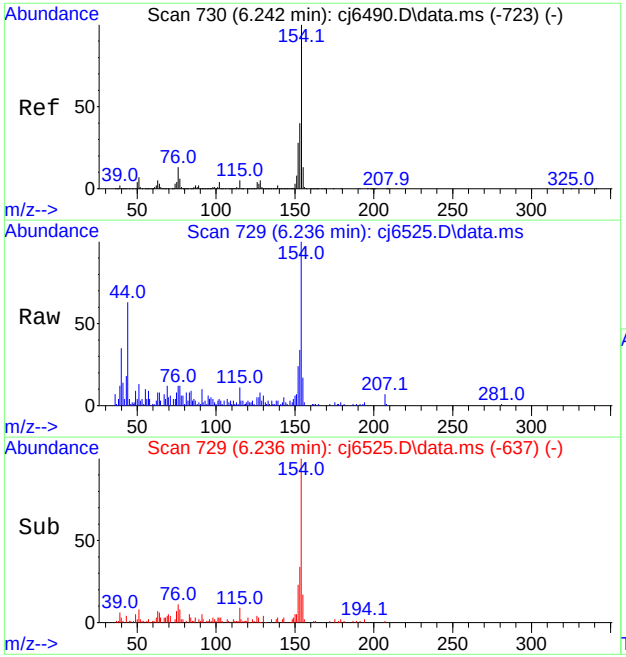


#44
2-Methylnaphthalene
Concen: 0.3913 ppm
RT: 5.921 min Scan# 670
Delta R.T. -0.005 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:141 Resp: 7338

Ion	Ratio	Lower	Upper
141	100		
142	124.7	82.7	142.7
115	45.9	12.4	72.4

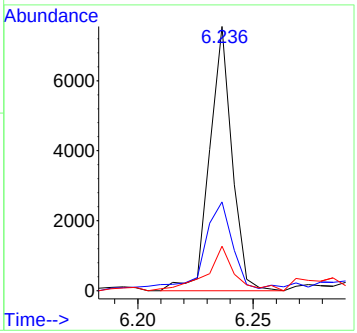


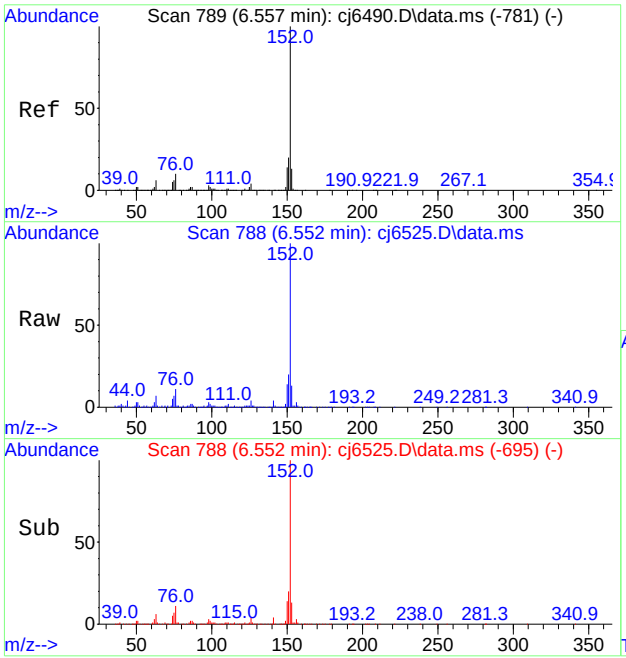


#53
Biphenyl
Concen: 0.1940 ppm
RT: 6.236 min Scan# 729
Delta R.T. -0.006 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:154 Resp: 5103

Ion	Ratio	Lower	Upper
154	100		
153	31.7	10.5	70.5
155	16.5	0.0	42.8

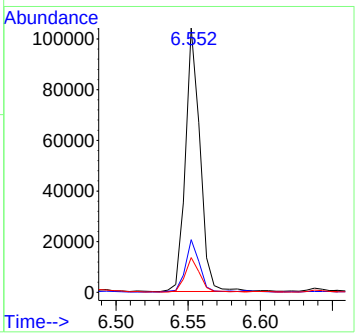


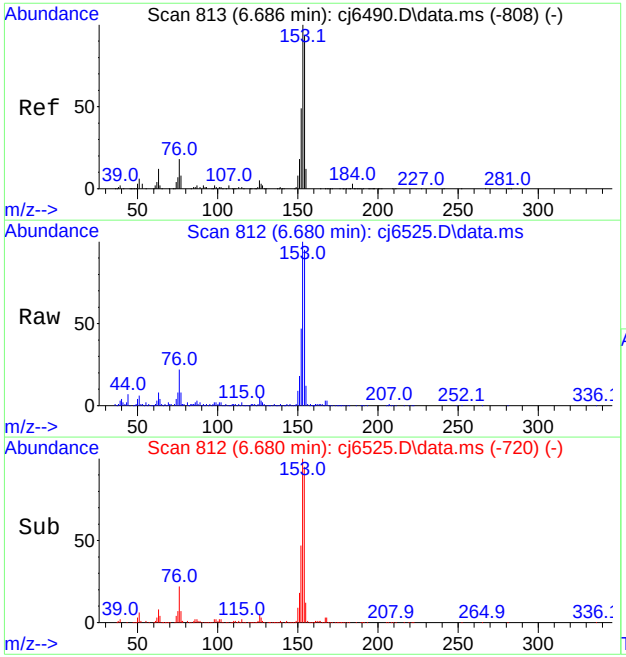


#56
Acenaphthylene
Concen: 2.4843 ppm
RT: 6.552 min Scan# 788
Delta R.T. -0.005 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:152 Resp: 73751

Ion	Ratio	Lower	Upper
152	100		
151	19.9	0.0	50.3
153	13.1	0.0	43.4

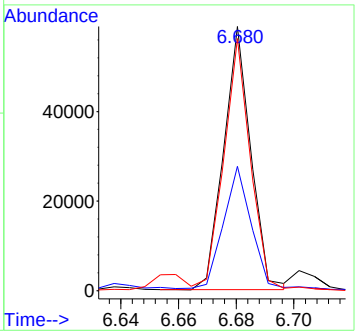


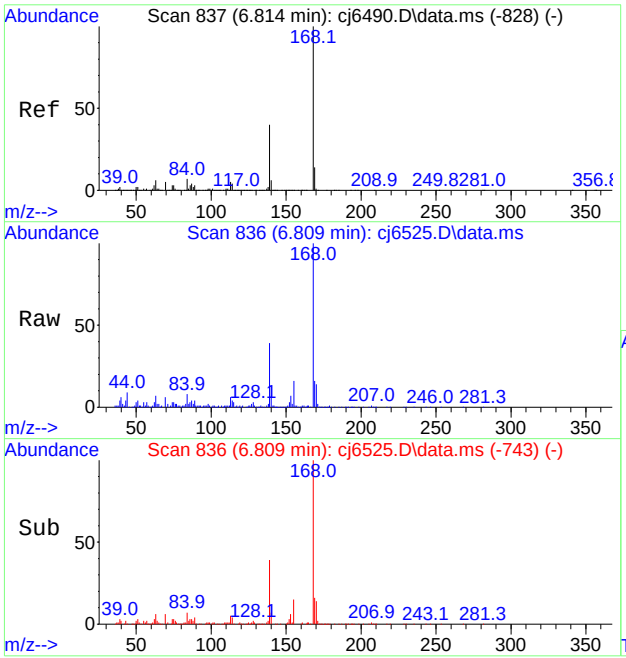


#59
Acenaphthene
Concen: 1.8185 ppm
RT: 6.680 min Scan# 812
Delta R.T. -0.006 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:153 Resp: 38391

Ion	Ratio	Lower	Upper
153	100		
152	46.5	18.8	78.8
154	93.4	62.9	122.9

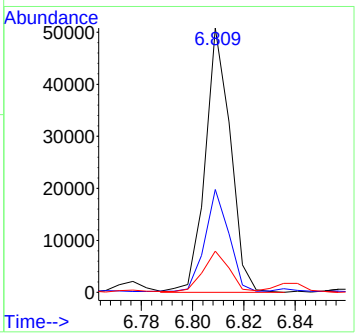


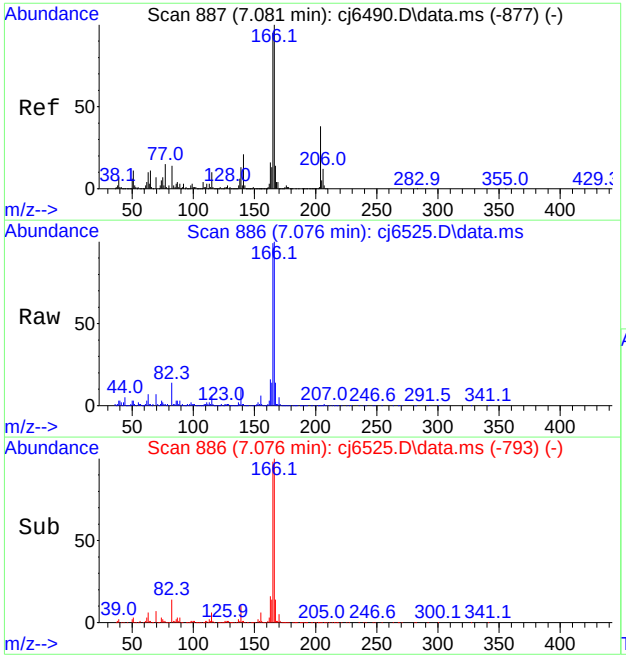


#62
Dibenzofuran
Concen: 1.1855 ppm
RT: 6.809 min Scan# 836
Delta R.T. -0.005 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:168 Resp: 34731

Ion	Ratio	Lower	Upper
168	100		
139	38.1	10.0	70.0
169	13.8	0.0	43.7

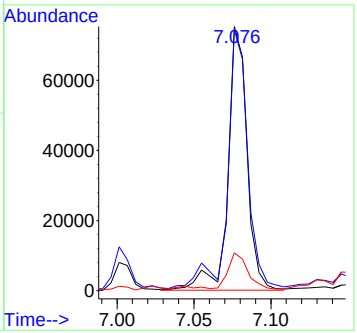


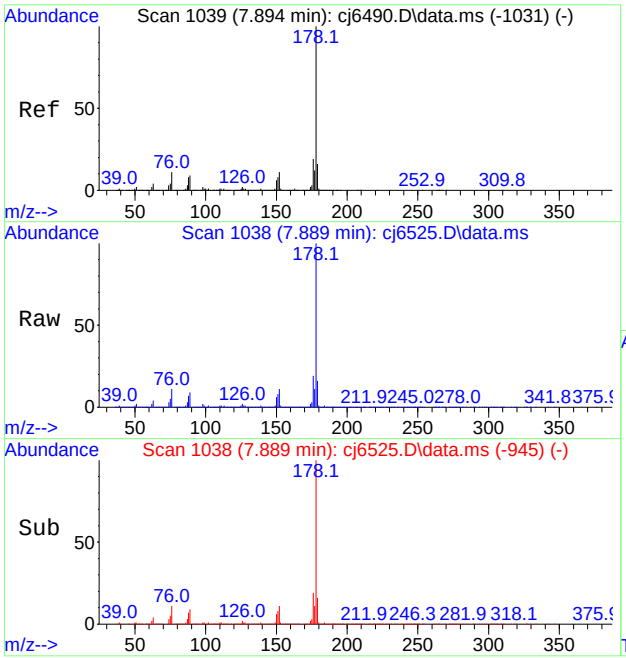


#66
Fluorene
Concen: 2.8223 ppm
RT: 7.076 min Scan# 886
Delta R.T. -0.005 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:166 Resp: 65318

Ion	Ratio	Lower	Upper
166	100		
165	97.9	65.4	125.4
167	13.5	0.0	43.8

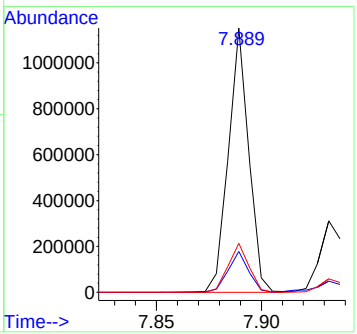


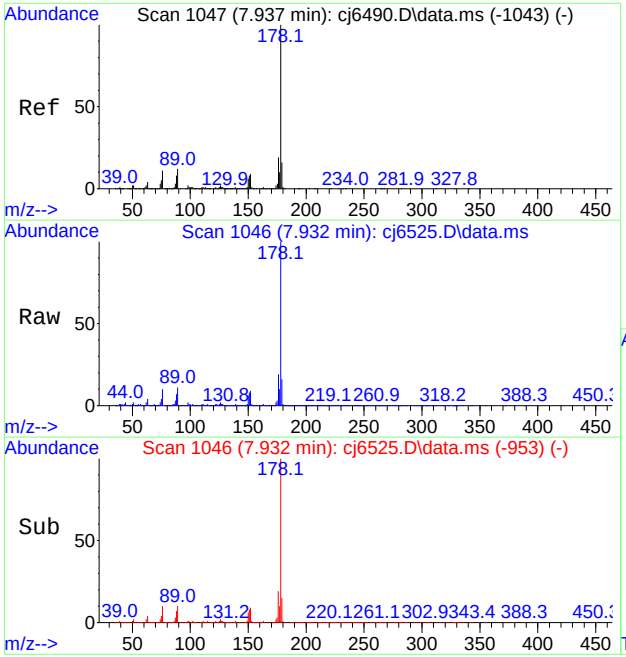


#78
Phenanthrene
Concen: 23.6976 ppm
RT: 7.889 min Scan# 1038
Delta R.T. -0.005 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:178 Resp: 779881

Ion	Ratio	Lower	Upper
178	100		
179	15.4	0.0	45.5
176	18.6	0.0	49.2

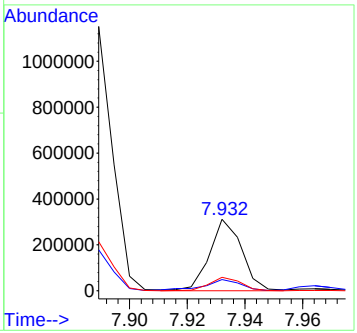


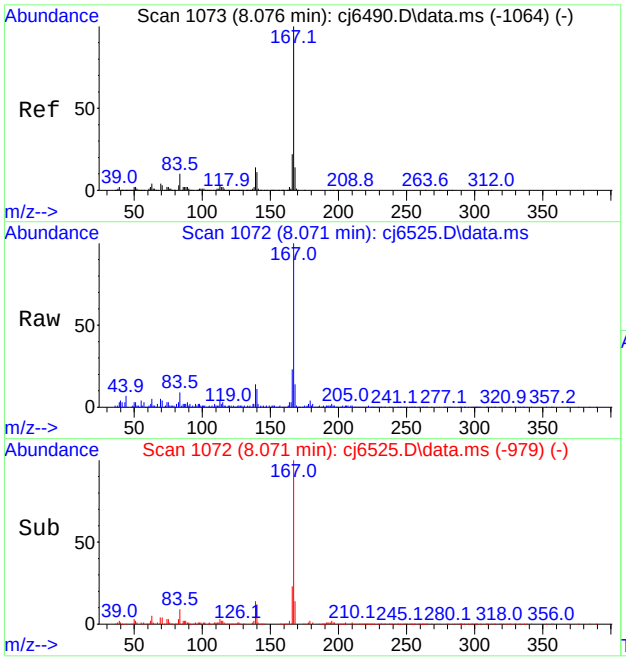


#79
Anthracene
Concen: 7.3639 ppm
RT: 7.932 min Scan# 1046
Delta R.T. -0.005 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:178 Resp: 242660

Ion	Ratio	Lower	Upper
178	100		
179	14.4	0.0	46.1
176	19.0	0.0	48.7

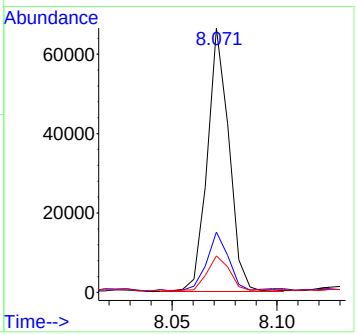


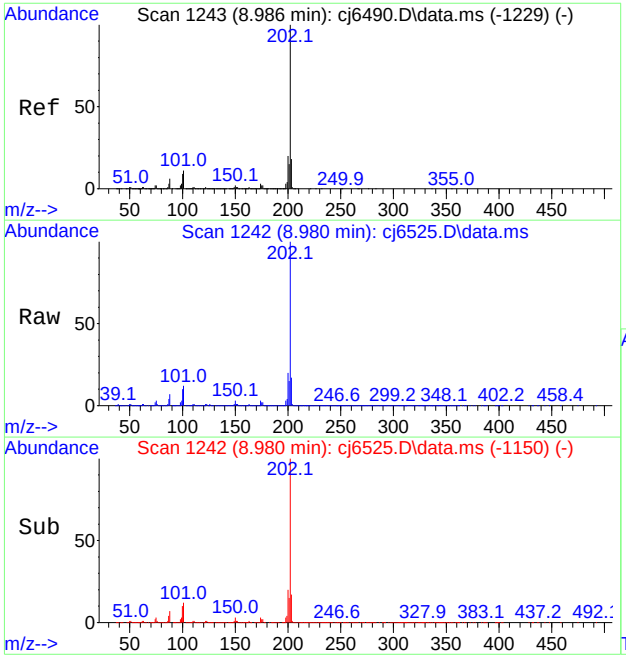


#80
Carbazole
Concen: 1.5533 ppm
RT: 8.071 min Scan# 1072
Delta R.T. -0.005 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:167 Resp: 47697

Ion	Ratio	Lower	Upper
167	100		
166	21.6	0.0	51.7
139	13.1	0.0	43.8

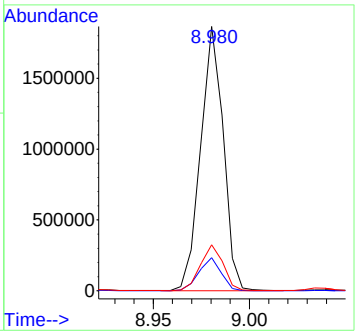


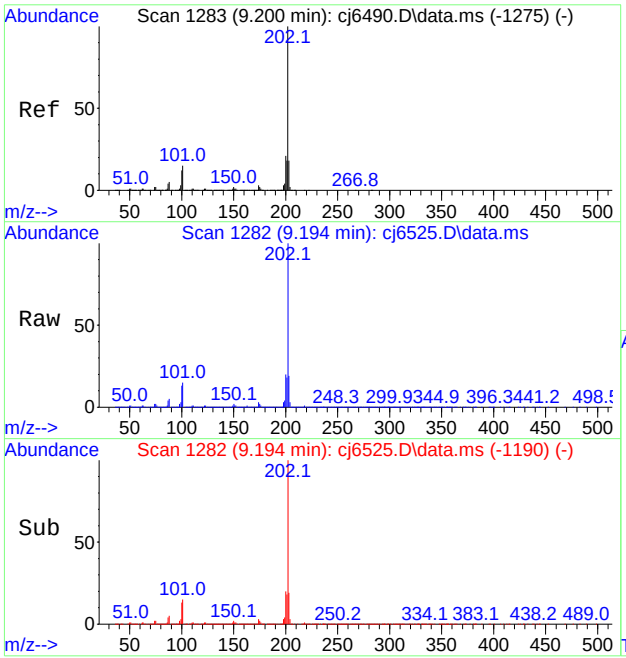


#82
Fluoranthene
Concen: 43.0062 ppm
RT: 8.980 min Scan# 1242
Delta R.T. -0.006 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:202 Resp: 1532240

Ion	Ratio	Lower	Upper
202	100		
101	12.5	0.0	41.4
203	17.3	0.0	47.6

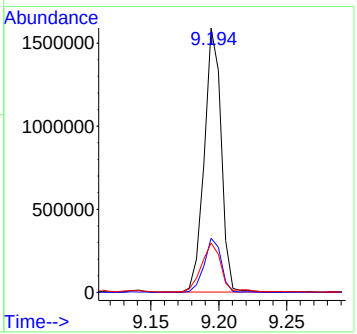


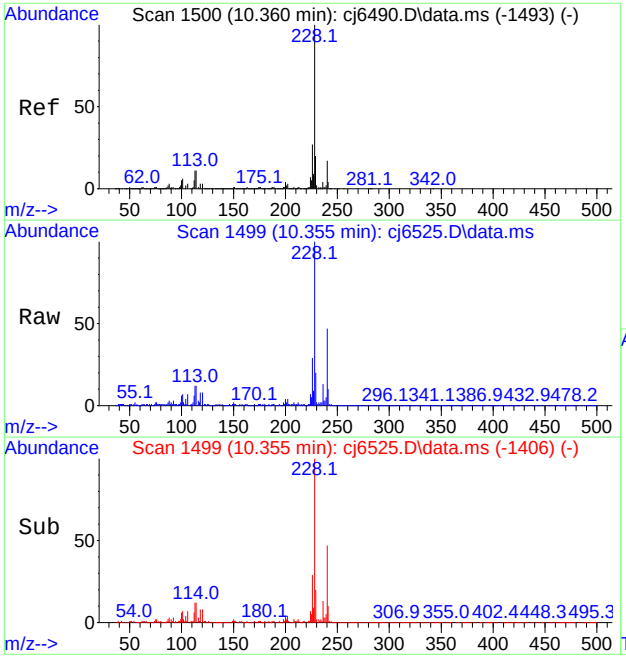


#86
Pyrene
Concen: 42.8934 ppm
RT: 9.194 min Scan# 1282
Delta R.T. -0.006 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:202 Resp: 1375233

Ion	Ratio	Lower	Upper
202	100		
200	20.5	0.0	51.4
203	18.5	0.0	47.8

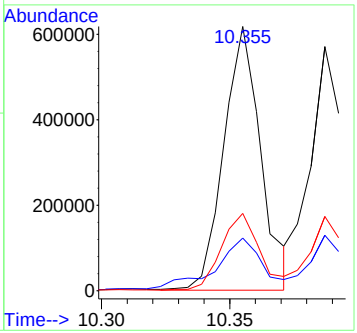


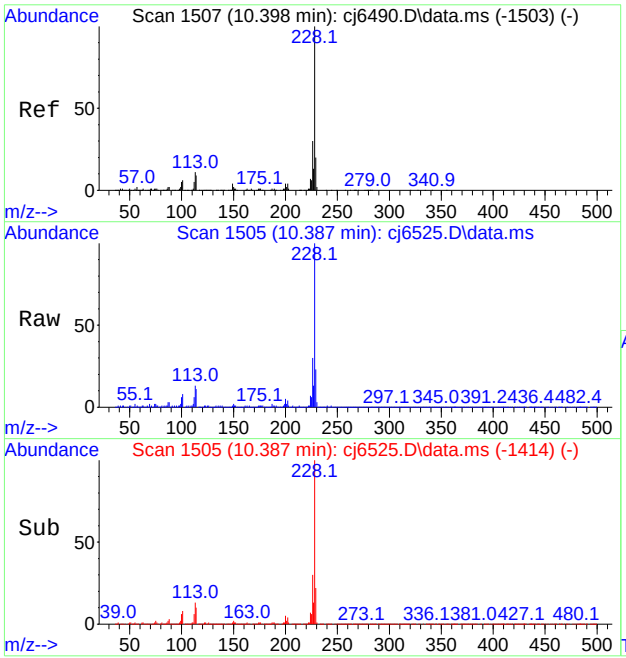


#89
Benzo[a]anthracene
Concen: 20.4498 ppm
RT: 10.355 min Scan# 1499
Delta R.T. -0.005 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:228 Resp: 619873

Ion	Ratio	Lower	Upper
228	100		
229	18.6	0.0	49.8
226	28.9	0.0	57.1

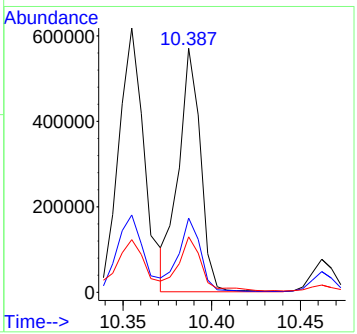


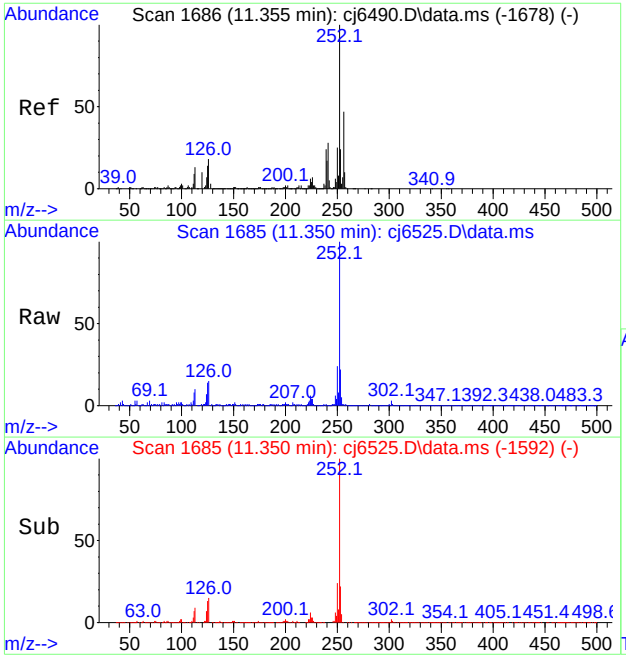


#91
Chrysene
Concen: 17.6929 ppm
RT: 10.387 min Scan# 1505
Delta R.T. -0.011 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:228 Resp: 494809

Ion	Ratio	Lower	Upper
228	100		
226	30.1	0.0	59.9
229	22.1	0.0	49.8

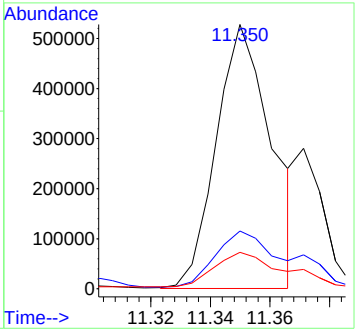


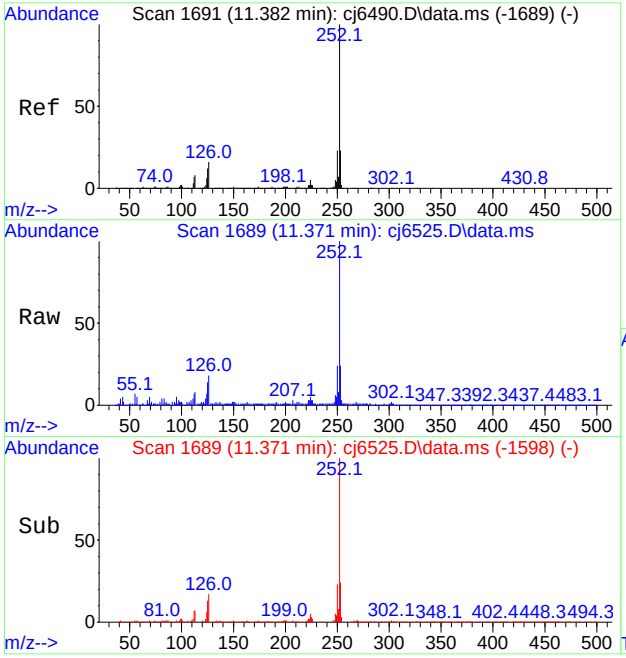


#95
Benzo[b]fluoranthene
Concen: 23.4733 ppm m
RT: 11.350 min Scan# 1685
Delta R.T. -0.005 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:252 Resp: 680593

Ion	Ratio	Lower	Upper
252	100		
253	21.9	0.0	54.7
125	13.8	0.0	44.2

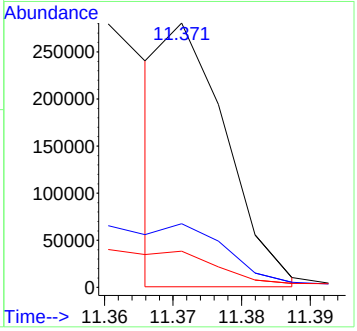


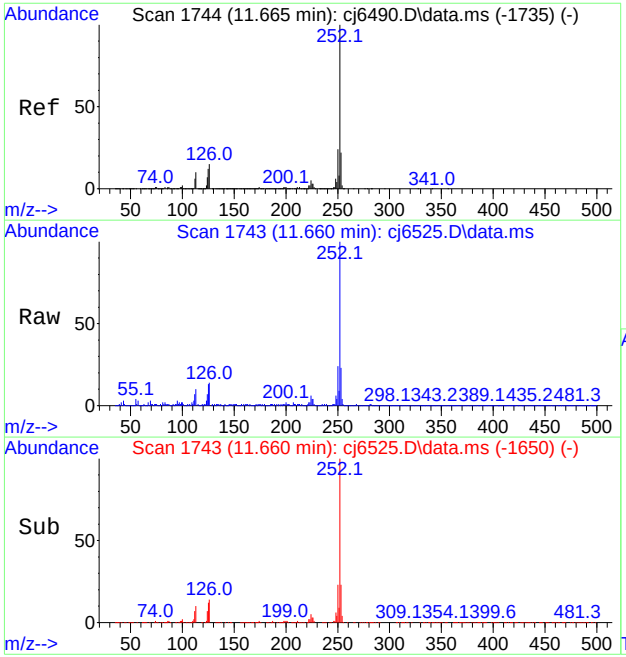


#96
Benzo[k]fluoranthene
Concen: 6.6314 ppm m
RT: 11.371 min Scan# 1689
Delta R.T. -0.011 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:252 Resp: 173014

Ion	Ratio	Lower	Upper
252	100		
253	24.1	0.0	52.6
125	13.7	0.0	42.4

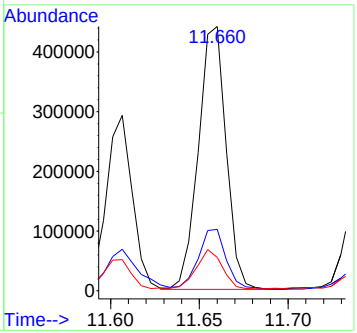


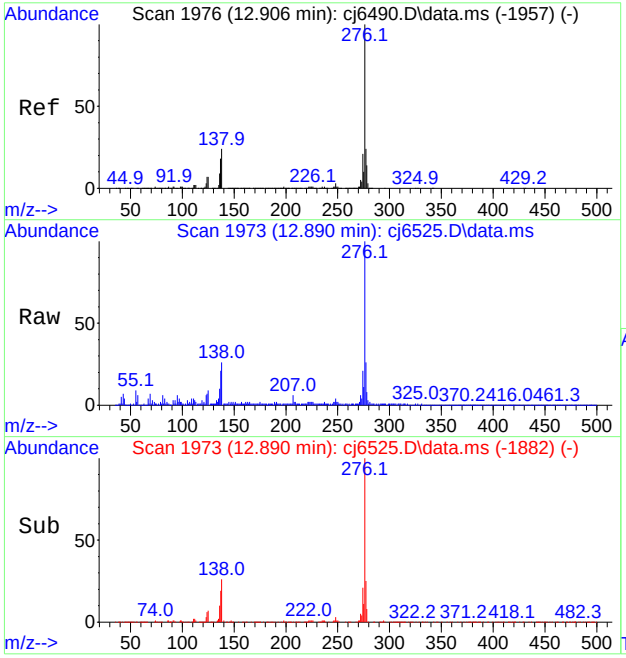


#97
Benzo[a]pyrene
Concen: 19.9276 ppm
RT: 11.660 min Scan# 1743
Delta R.T. -0.005 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:252 Resp: 478307

Ion	Ratio	Lower	Upper
252	100		
253	22.1	0.0	51.9
125	11.8	0.0	42.1

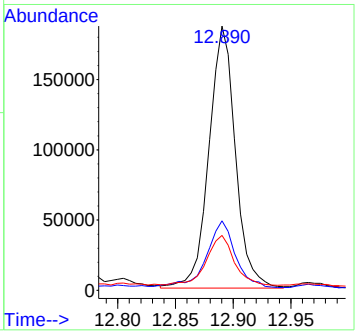


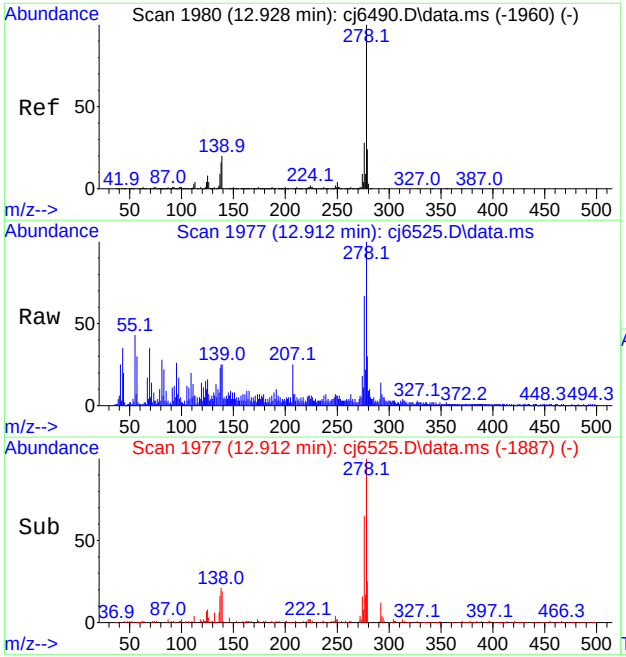


#98
Indeno[1,2,3-cd]pyrene
Concen: 10.2836 ppm
RT: 12.890 min Scan# 1973
Delta R.T. -0.016 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:276 Resp: 298394

Ion	Ratio	Lower	Upper
276	100		
138	25.1	0.0	54.2
137	19.0	0.0	47.9

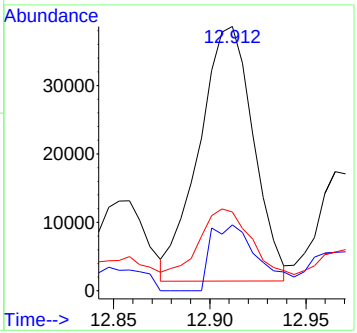


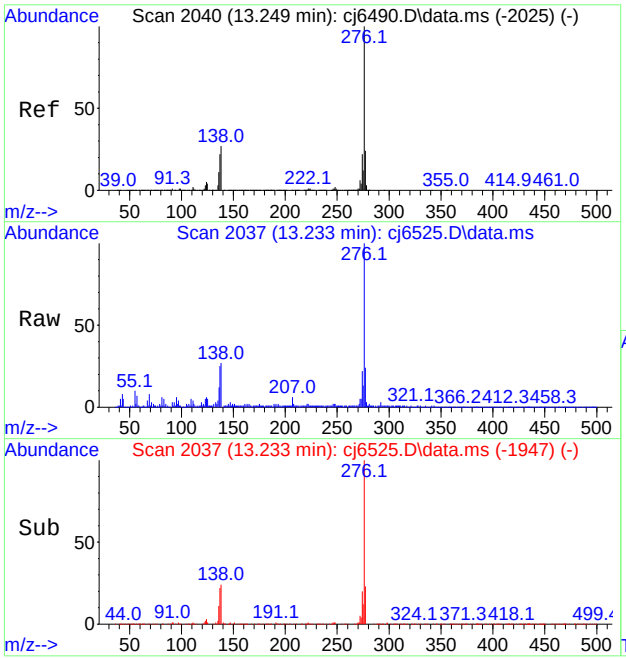


#100
Dibenz[a,h]anthracene
Concen: 3.1508 ppm
RT: 12.912 min Scan# 1977
Delta R.T. -0.016 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:278 Resp: 73052

Ion	Ratio	Lower	Upper
278	100		
139	23.9	0.0	49.8
279	25.1	0.0	54.1

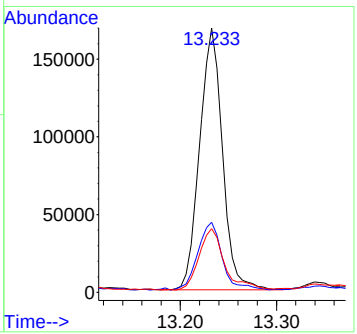




#102
Benzo[g,h,i]perylene
Concen: 12.3332 ppm
RT: 13.233 min Scan# 2037
Delta R.T. -0.016 min
Lab File: cj6525.D
Acq: 09 May 2024 08:11 pm

Tgt Ion:276 Resp: 278104

Ion	Ratio	Lower	Upper
276	100		
138	25.6	0.0	56.7
277	23.1	0.0	54.1



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6525.D
Acq On : 09 May 2024 08:11 pm
Operator : rocquans
Sample : jd87833-3
Misc : op54460,ecj297,30.9,,,1,2
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6525.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.247	352	357	367	rVB	488756	286489	5.52%	0.489%
2	4.418	386	389	394	rBV	1062797	689136	13.27%	1.177%
3	4.482	398	401	405	rVB	307375	169946	3.27%	0.290%
4	4.664	429	435	439	rBV	3953784	2284831	44.01%	3.902%
5	4.750	447	451	455	rBV	184593	125627	2.42%	0.215%
6	4.819	458	464	469	rBV3	74888	76333	1.47%	0.130%
7	5.012	494	500	503	rBV	1123500	646948	12.46%	1.105%
8	5.466	578	585	590	rBV	4831919	2859647	55.08%	4.884%
9	6.167	710	716	720	rBV	2002499	1278872	24.63%	2.184%
10	6.402	757	760	763	rBV	64448	60764	1.17%	0.104%
11	6.552	783	788	793	rBV	243068	181937	3.50%	0.311%
12	6.659	799	808	811	rBV	4260322	3373010	64.97%	5.761%
13	6.680	811	812	819	rVB	229510	118820	2.29%	0.203%
14	6.809	832	836	839	rBV	146831	104364	2.01%	0.178%
15	7.076	875	886	892	rVB	262967	255513	4.92%	0.436%
16	7.269	918	922	927	rBV	840136	637438	12.28%	1.089%
17	7.376	938	942	949	rVB4	81483	82060	1.58%	0.140%
18	7.531	964	971	973	rBV3	76519	88900	1.71%	0.152%
19	7.659	987	995	999	rBV5	57624	114037	2.20%	0.195%
20	7.697	999	1002	1006	rVB	104768	89031	1.71%	0.152%
21	7.777	1012	1017	1025	rVB	130416	146910	2.83%	0.251%
22	7.868	1025	1034	1036	rBV	4465763	3475696	66.95%	5.936%
23	7.889	1036	1038	1042	rVB	2804390	1826009	35.17%	3.119%
24	7.932	1042	1046	1050	rVB	730951	540477	10.41%	0.923%
25	8.071	1066	1072	1075	rBV2	164923	166300	3.20%	0.284%
26	8.162	1086	1089	1094	rVB3	82550	77050	1.48%	0.132%
27	8.317	1112	1118	1121	rBV	275205	273728	5.27%	0.467%
28	8.344	1121	1123	1128	rVB	412707	288960	5.57%	0.493%
29	8.387	1128	1131	1134	rBV	162038	104662	2.02%	0.179%
30	8.419	1134	1137	1147	rVB2	643490	760443	14.65%	1.299%
31	8.595	1162	1170	1181	rVB3	241242	388752	7.49%	0.664%
32	8.734	1190	1196	1199	rBV2	76701	100084	1.93%	0.171%
33	8.761	1199	1201	1204	rBV	82780	73510	1.42%	0.126%
34	8.831	1208	1214	1217	rBV	215503	249994	4.82%	0.427%
35	8.863	1217	1220	1223	rBV	120233	114810	2.21%	0.196%
36	8.906	1223	1228	1234	rVB2	213546	283089	5.45%	0.483%
37	8.980	1234	1242	1249	rBV	4399523	3663975	70.57%	6.257%
38	9.034	1249	1252	1256	rBV3	101544	116963	2.25%	0.200%
39	9.066	1256	1258	1263	rVB	91815	80358	1.55%	0.137%
40	9.119	1263	1268	1274	rBV4	145865	228539	4.40%	0.390%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6525.D
Acq On : 09 May 2024 08:11 pm
Operator : rocquans
Sample : jd87833-3
Misc : op54460,ecj297,30.9,,,1,2
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.194	1275	1282	1286	rBV	3824738	3607358	69.48%	6.161%
42	9.242	1289	1291	1299	rVB2	175595	229760	4.43%	0.392%
43	9.312	1299	1304	1307	rBV	186927	186529	3.59%	0.319%
44	9.349	1307	1311	1317	rVB	1651126	1437101	27.68%	2.454%
45	9.414	1317	1323	1326	rBV2	209502	327329	6.30%	0.559%
46	9.515	1331	1342	1346	rVB	439230	615520	11.86%	1.051%
47	9.579	1346	1354	1357	rBV2	389369	400949	7.72%	0.685%
48	9.612	1357	1360	1364	rBV	356070	364331	7.02%	0.622%
49	9.676	1369	1372	1374	rBV3	76939	78177	1.51%	0.134%
50	9.702	1374	1377	1380	rBV	196792	166919	3.22%	0.285%
51	9.729	1380	1382	1387	rBV	161502	147060	2.83%	0.251%
52	9.809	1394	1397	1405	rVB6	33655	64082	1.23%	0.109%
53	9.911	1408	1416	1418	rBV8	83865	159015	3.06%	0.272%
54	10.002	1428	1433	1439	rBV2	228317	327989	6.32%	0.560%
55	10.072	1439	1446	1448	rBV6	49868	72680	1.40%	0.124%
56	10.114	1449	1454	1457	rBV2	244132	298742	5.75%	0.510%
57	10.146	1457	1460	1465	rBV2	198930	288709	5.56%	0.493%
58	10.211	1469	1472	1480	rVB	200633	201665	3.88%	0.344%
59	10.275	1480	1484	1491	rVB4	121679	210246	4.05%	0.359%
60	10.366	1491	1501	1504	rBV2	3817803	5191846	100.00%	8.867%
61	10.387	1504	1505	1513	rVB	1580017	1037875	19.99%	1.773%
62	10.462	1513	1519	1524	rBV2	329170	533875	10.28%	0.912%
63	10.558	1533	1537	1540	rBV3	103492	158308	3.05%	0.270%
64	10.590	1540	1543	1551	rVB2	112014	198365	3.82%	0.339%
65	10.676	1556	1559	1563	rBV3	60394	76350	1.47%	0.130%
66	10.713	1563	1566	1568	rBV	107232	104711	2.02%	0.179%
67	10.745	1568	1572	1576	rBV	255358	263118	5.07%	0.449%
68	10.778	1576	1578	1582	rVB2	134317	119248	2.30%	0.204%
69	10.836	1582	1589	1592	rBV3	159008	219553	4.23%	0.375%
70	10.863	1592	1594	1596	rBV2	135833	135600	2.61%	0.232%
71	10.885	1596	1598	1600	rVB	146518	101659	1.96%	0.174%
72	10.906	1600	1602	1606	rVB2	122510	126393	2.43%	0.216%
73	10.949	1607	1610	1613	rVB	77399	74674	1.44%	0.128%
74	10.997	1616	1619	1622	rBV4	57942	71229	1.37%	0.122%
75	11.050	1622	1629	1633	rBV4	184967	321300	6.19%	0.549%
76	11.125	1637	1643	1647	rBV6	89501	153788	2.96%	0.263%
77	11.205	1652	1658	1663	rVB5	99107	218531	4.21%	0.373%
78	11.350	1679	1685	1694	rVV	1486850	2681142	51.64%	4.579%
79	11.441	1694	1702	1711	rVB2	357928	567266	10.93%	0.969%
80	11.521	1711	1717	1719	rBV6	102838	168634	3.25%	0.288%
81	11.569	1723	1726	1728	rVV4	80210	100886	1.94%	0.172%
82	11.607	1728	1733	1738	rVV	816629	981555	18.91%	1.676%
83	11.655	1738	1742	1747	rVV	1229971	1319901	25.42%	2.254%
84	11.714	1747	1753	1765	rVB2	2694789	3319228	63.93%	5.669%
85	11.863	1774	1781	1795	rVB6	104713	398313	7.67%	0.680%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6525.D
Acq On : 09 May 2024 08:11 pm
Operator : rocquans
Sample : jd87833-3
Misc : op54460,ecj297,30.9,,,1,2
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.008	1806	1808	1817	rVB7	62253	116208	2.24%	0.198%
87	12.168	1834	1838	1843	rBV4	83268	151768	2.92%	0.259%
88	12.473	1892	1895	1903	rVB10	54809	90288	1.74%	0.154%
89	12.639	1915	1926	1928	rBV6	76362	201484	3.88%	0.344%
90	12.671	1929	1932	1937	rVB6	85891	116110	2.24%	0.198%
91	12.762	1942	1949	1955	rBV5	170318	317122	6.11%	0.542%
92	12.890	1962	1973	1983	rVB2	575694	1218638	23.47%	2.081%
93	12.971	1983	1988	1994	rVB2	64928	105899	2.04%	0.181%
94	13.040	1996	2001	2005	rBV	114792	173139	3.33%	0.296%
95	13.083	2005	2009	2014	rBV4	87046	153198	2.95%	0.262%
96	13.233	2029	2037	2048	rBV	457966	794022	15.29%	1.356%
97	13.409	2054	2070	2082	rVB2	185986	513344	9.89%	0.877%
98	13.618	2102	2109	2111	rBV8	37326	64132	1.24%	0.110%
99	13.826	2144	2148	2157	rVB8	39085	81307	1.57%	0.139%
100	13.960	2162	2173	2177	rBV8	53377	145714	2.81%	0.249%

Sum of corrected areas: 58553894

LSC Report - Integrated Chromatogram

```
Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6525.D
Acq On    : 09 May 2024  08:11 pm
Operator  : rocquans
Sample    : jd87833-3
Misc      : op54460,ecj297,30.9,,,1,2
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title  : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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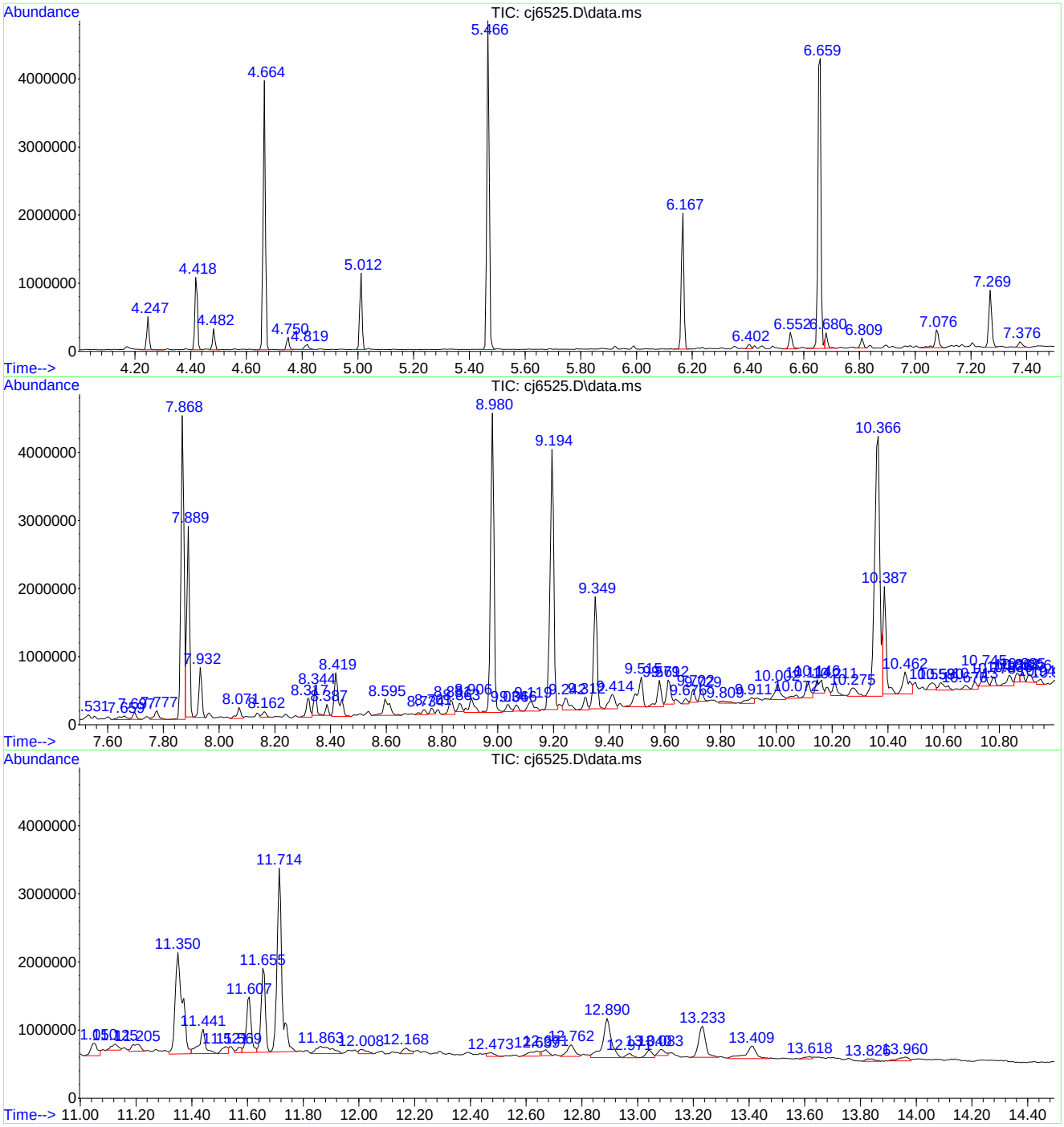


Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6525.D
Acq On : 09 May 2024 08:11 pm
Operator : rocquans
Sample : jd87833-3
Misc : op54460,ecj297,30.9,,,1,2
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

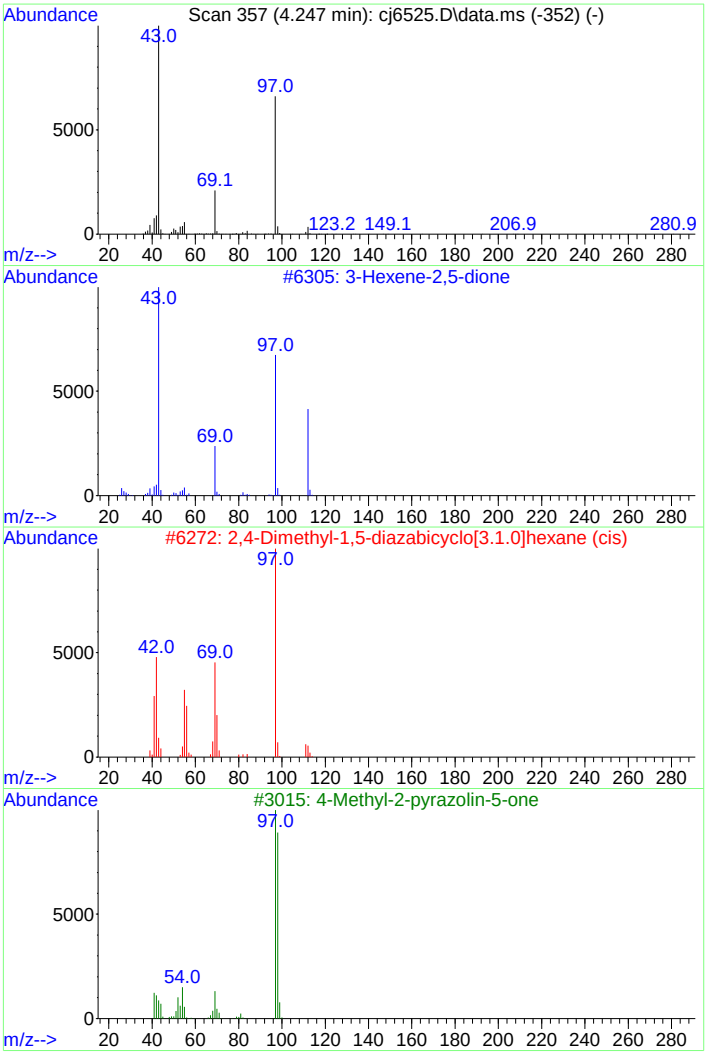
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

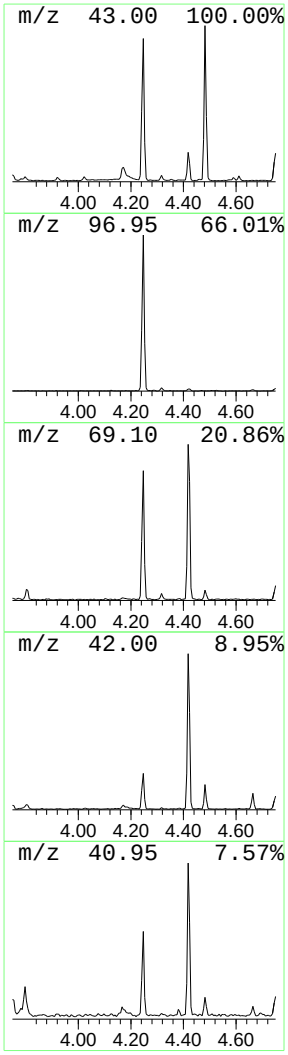
****

Peak Number 1 Unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.247	5.02 ppm	286489	1,4-Dichlorobenzene-d4a	4.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexene-2,5-dione	112	C6H8O2	004436-75-3	72
2	2,4-Dimethyl-1,5-diazabicyclo[3....	112	C6H12N2	100463-01-2	28
3	4-Methyl-2-pyrazolin-5-one	98	C4H6N2O	013315-23-6	25
4	5-Hexen-2-one	98	C6H10O	000109-49-9	22
5	5-Hexen-2-one	98	C6H10O	000109-49-9	12





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6525.D
Acq On : 09 May 2024 08:11 pm
Operator : rocquans
Sample : jd87833-3
Misc : op54460,ecj297,30.9,,,1,2
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

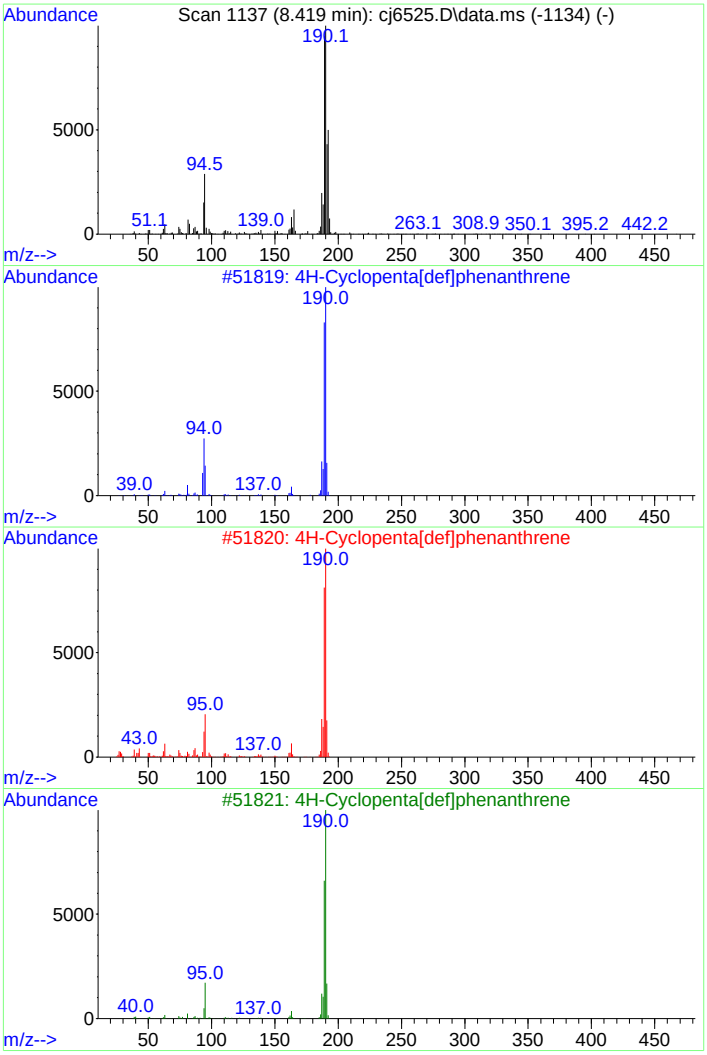
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

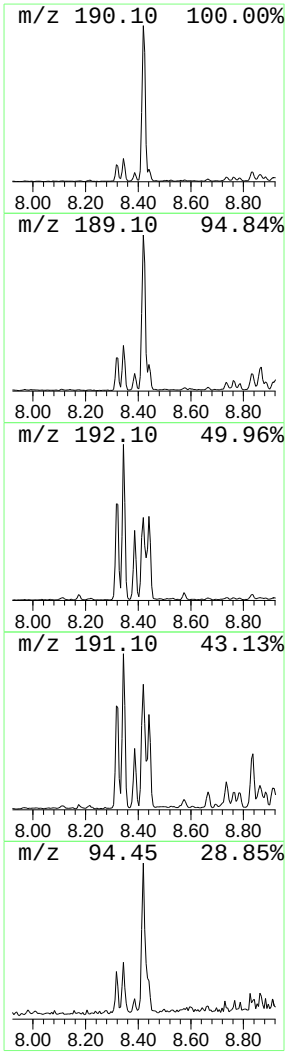
****

Peak Number 2 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.419	8.75 ppm	760443	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	47
4	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	38
5	Methyl diselenide	190	C2H6Se2	007101-31-7	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6525.D
Acq On : 09 May 2024 08:11 pm
Operator : rocquans
Sample : jd87833-3
Misc : op54460,ecj297,30.9,,,1,2
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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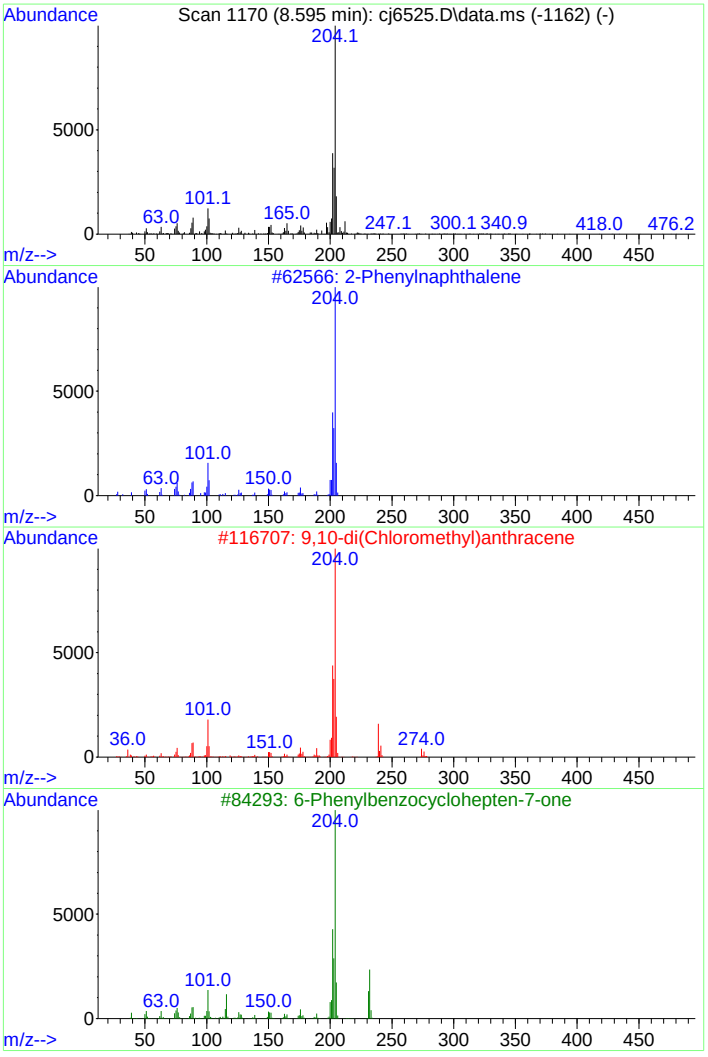
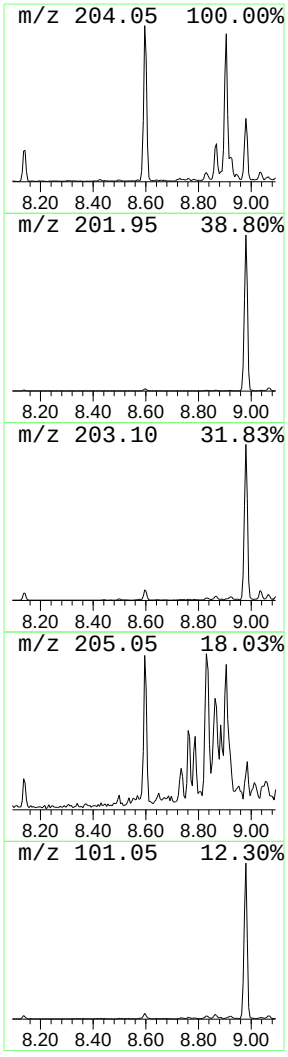
Peak Number 3 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.595	4.47 ppm	388752	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	92
2	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	90
3	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	86
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	83
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	78





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6525.D
Acq On : 09 May 2024 08:11 pm
Operator : rocquans
Sample : jd87833-3
Misc : op54460,ecj297,30.9,,,1,2
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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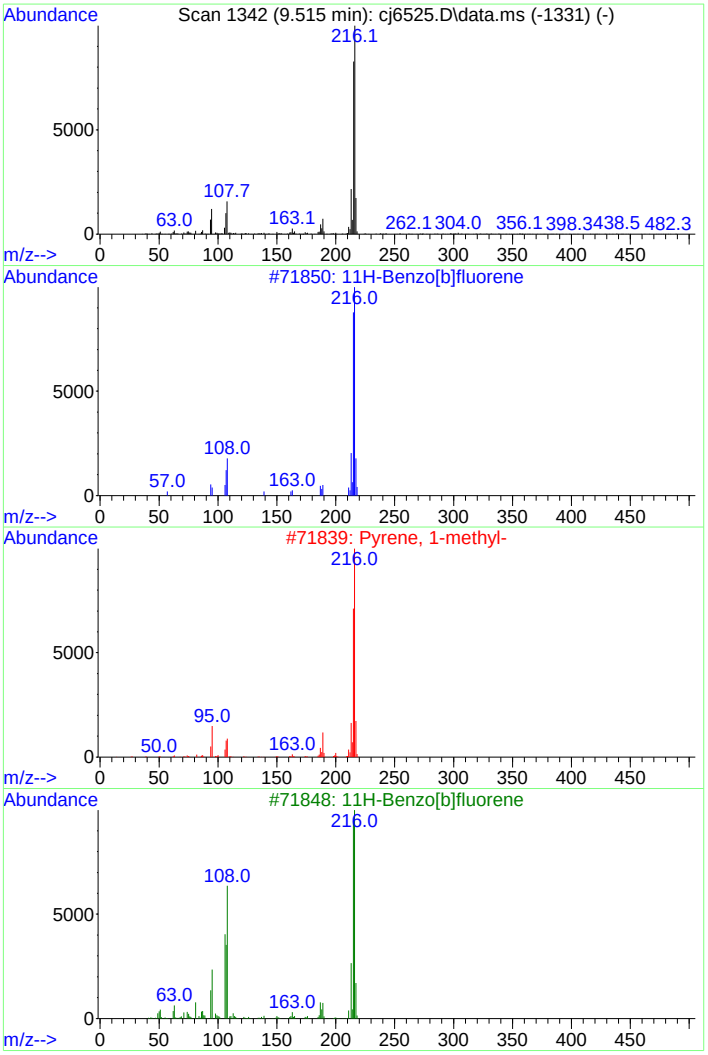
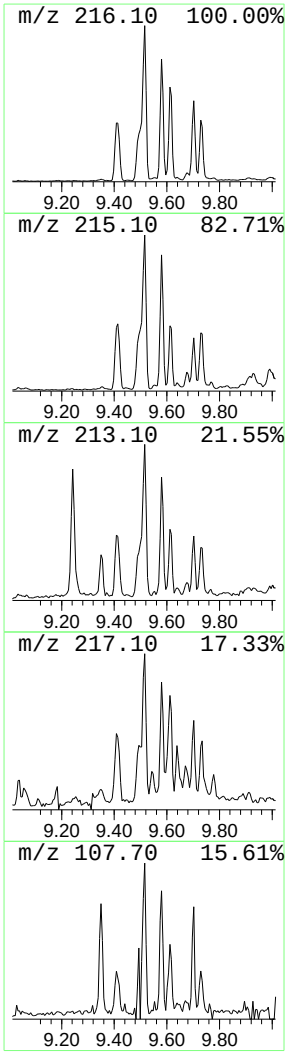
Peak Number 4 11H-Benzo[b]fluorene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.515	4.74 ppm	615520	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6525.D
Acq On : 09 May 2024 08:11 pm
Operator : rocquans
Sample : jd87833-3
Misc : op54460,ecj297,30.9,,,1,2
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

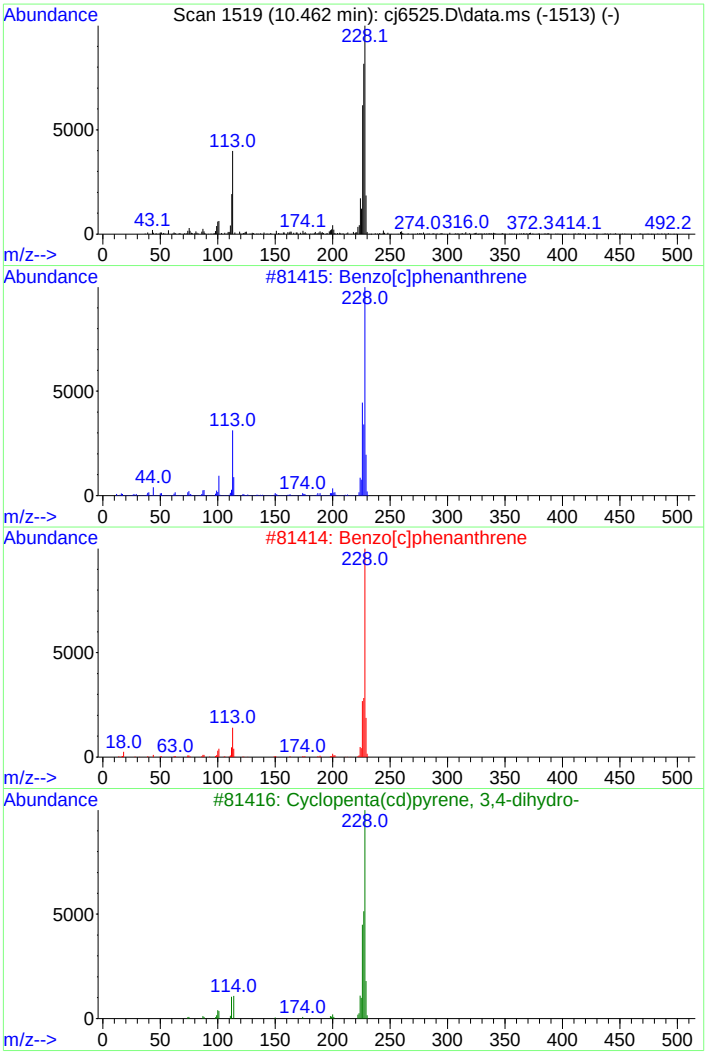
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

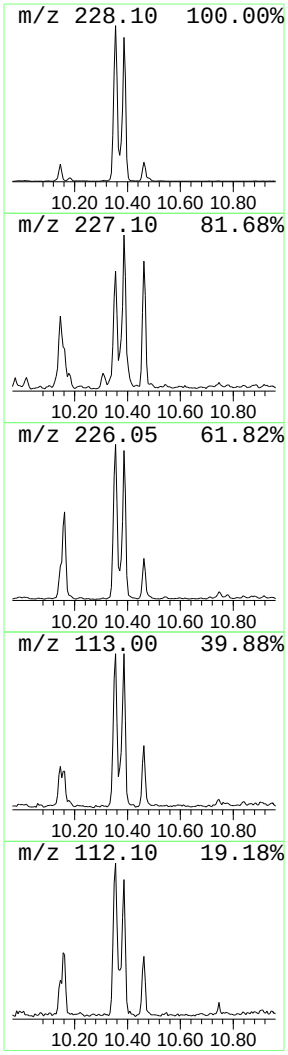
****

Peak Number 5 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.462	4.11 ppm	533875	Chrysene-d12a	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]phenanthrene	228	C18H12	000195-19-7	49
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	47
3	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	45
4	1,3,5-Triazine-2(1H)-thione, 4-(...	227	C9H17N5S	023613-02-7	38
5	Dimethyl-[4-[2-(3-methylisoxazol...	228	C14H16N2O	1000306-39-6	37





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6525.D
Acq On : 09 May 2024 08:11 pm
Operator : rocquans
Sample : jd87833-3
Misc : op54460,ecj297,30.9,,,1,2
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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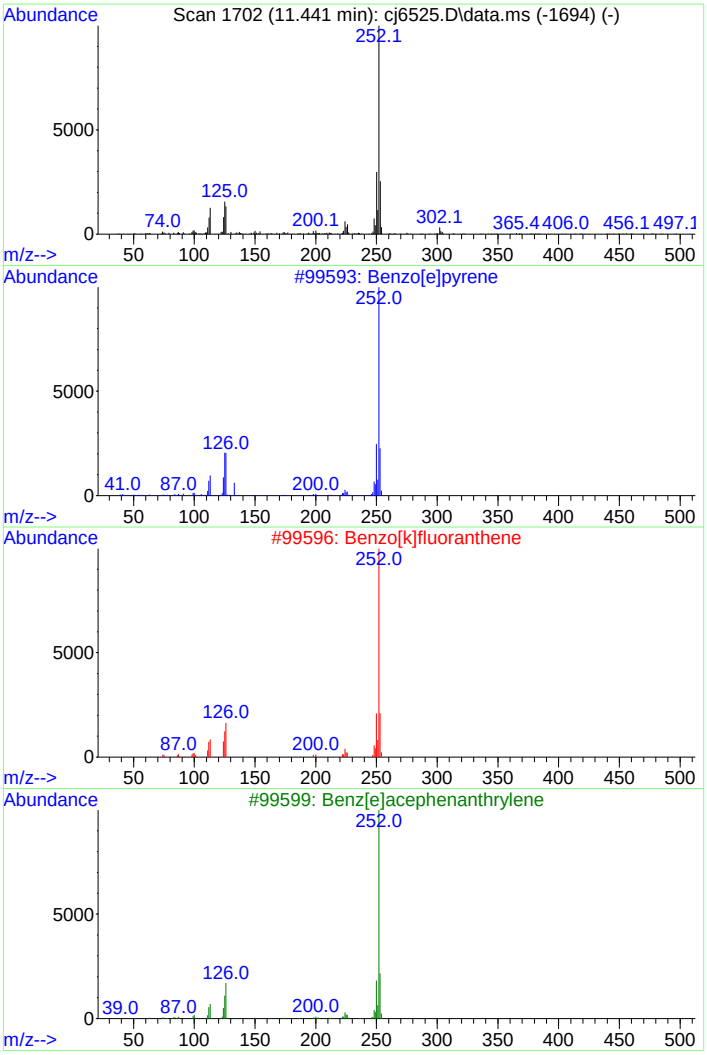
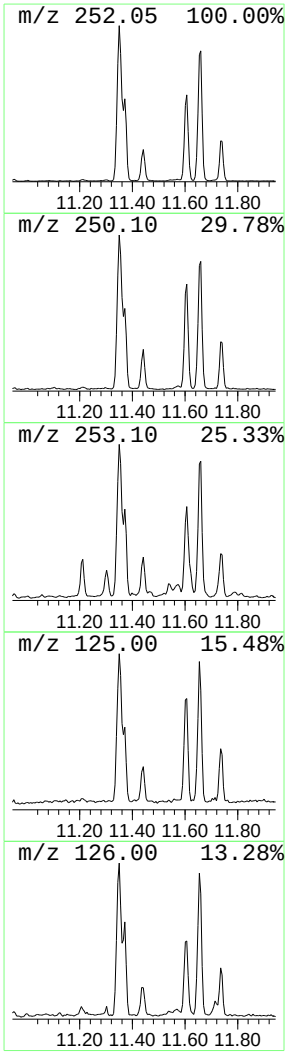
Peak Number 6 unknown PAH Substances Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.441	6.84 ppm	567266	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[e]pyrene	252	C20H12	000192-97-2	91
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6525.D
Acq On : 09 May 2024 08:11 pm
Operator : rocquans
Sample : jd87833-3
Misc : op54460,ecj297,30.9,,,1,2
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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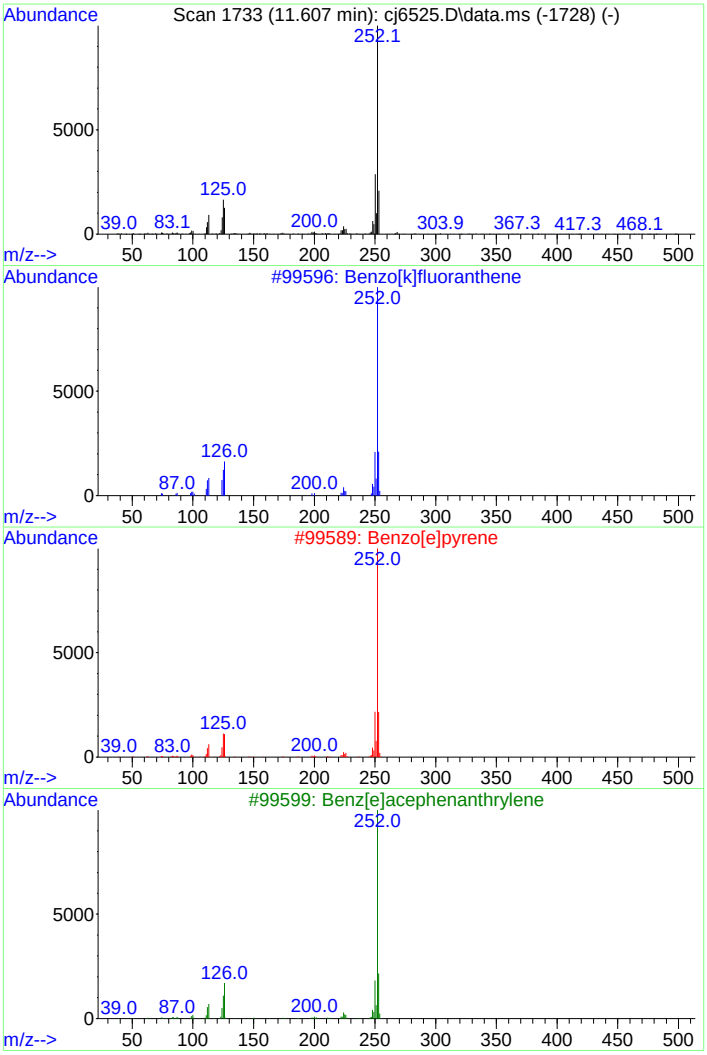
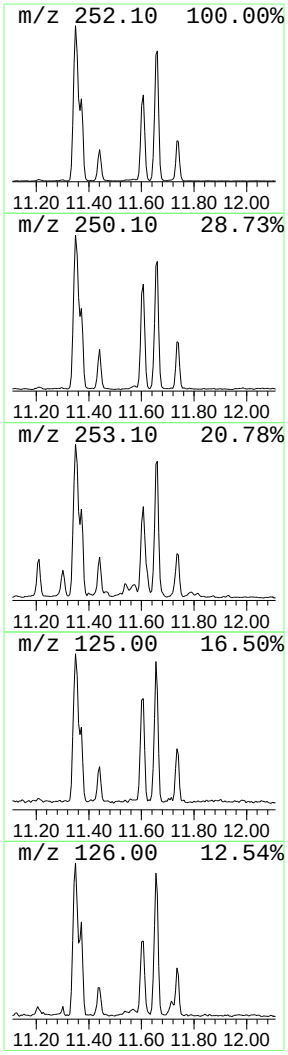
Peak Number 7 unknow PAH substances Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.607	11.83 ppm	981555	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
2	Benzo[e]pyrene	252	C20H12	000192-97-2	97
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
4	Benzo[a]pyrene	252	C20H12	000050-32-8	94
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6525.D
Acq On : 09 May 2024 08:11 pm
Operator : rocquans
Sample : jd87833-3
Misc : op54460,ecj297,30.9,,,1,2
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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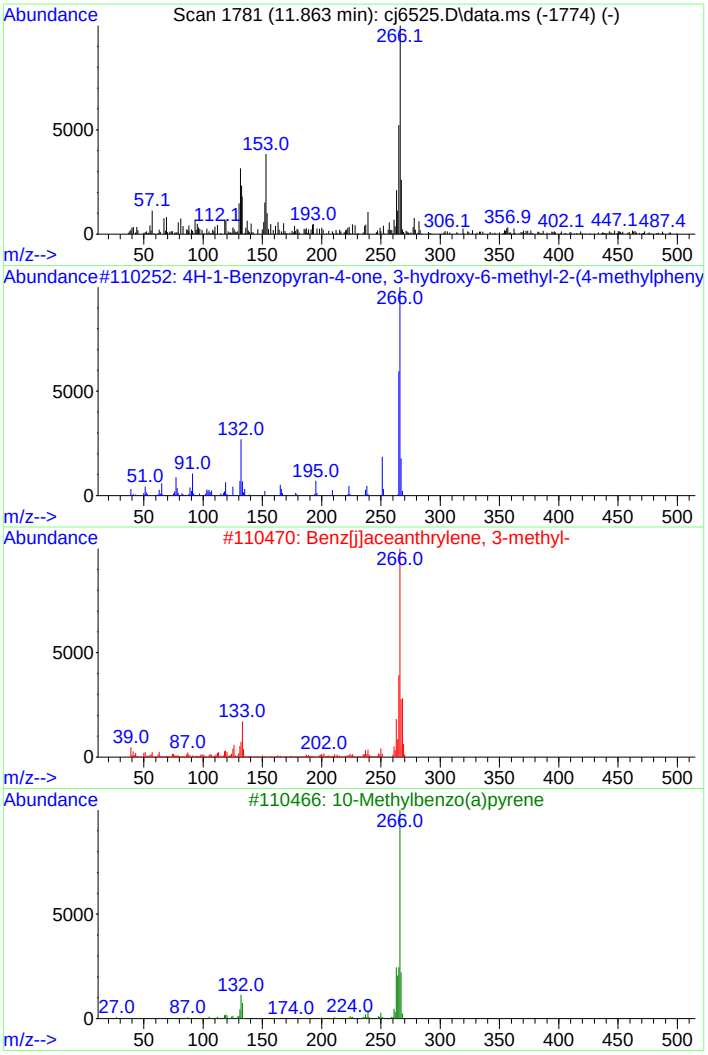
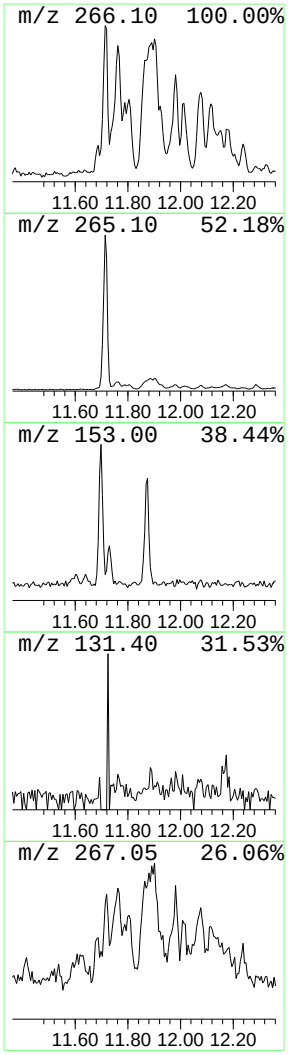
Peak Number 8 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.863	4.80 ppm	398313	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-1-Benzopyran-4-one, 3-hydroxy...	266	C17H14O3	078396-37-9	53
2	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	49
3	10-Methylbenzo(a)pyrene	266	C21H14	063104-32-5	49
4	Chlorothalonil	264	C8Cl4N2	001897-45-6	43
5	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	43





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6525.D
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Operator : rocquans
Sample : jd87833-3
Misc : op54460,ecj297,30.9,,,1,2
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

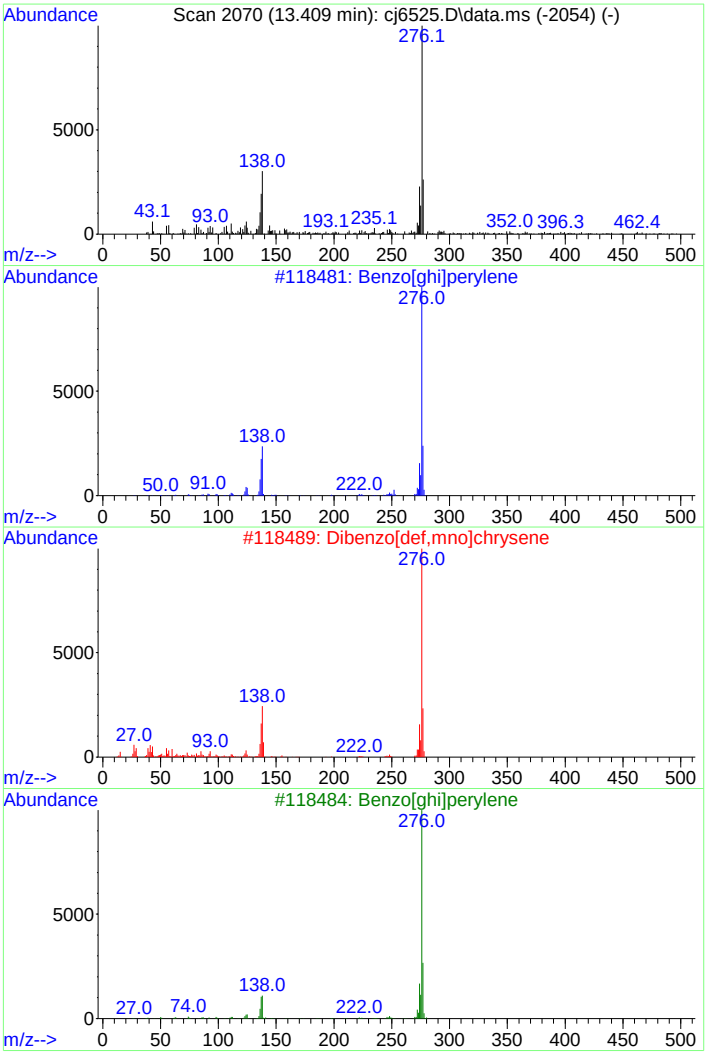
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

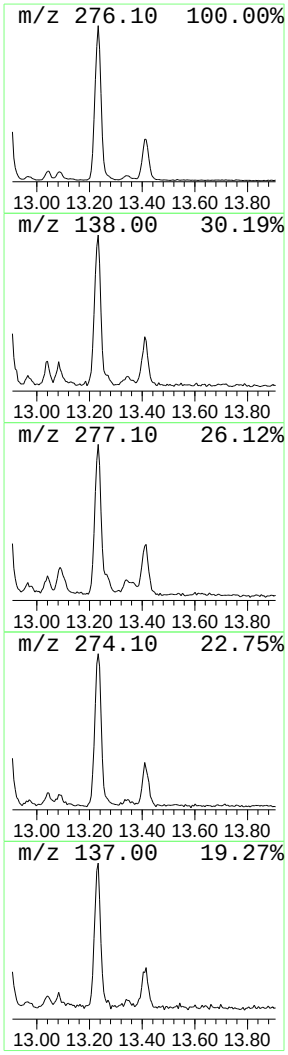
****

Peak Number 9 Unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.409	6.19 ppm	513344	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	94
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	93
3	Benzo[ghi]perylene	276	C22H12	000191-24-2	91
4	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	91
5	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	90





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6525.D
Acq On : 09 May 2024 08:11 pm
Operator : rocquans
Sample : jd87833-3
Misc : op54460,ecj297,30.9,,,1,2
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.247	5.0	ppm	286489	2	4.664	2284830	40.0
4H-Cyclopenta[d...	8.419	8.8	ppm	760443	8	7.868	3475700	40.0
Unknown	8.595	4.5	ppm	388752	8	7.868	3475700	40.0
11H-Benzo[b]flu...	9.515	4.7	ppm	615520	9	10.366	5191850	40.0
Unknown	10.462	4.1	ppm	533875	10	10.366	5191850	40.0
unknown PAH Sub...	11.441	6.8	ppm	567266	11	11.714	3319230	40.0
unknow PAH subs...	11.607	11.8	ppm	981555	11	11.714	3319230	40.0
Unknown	11.863	4.8	ppm	398313	11	11.714	3319230	40.0
Unknown	13.409	6.2	ppm	513344	11	11.714	3319230	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jacky Takeuchi 05/10/24 22:07

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4 Inst : GCMSCJ
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 10 19:04:17 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

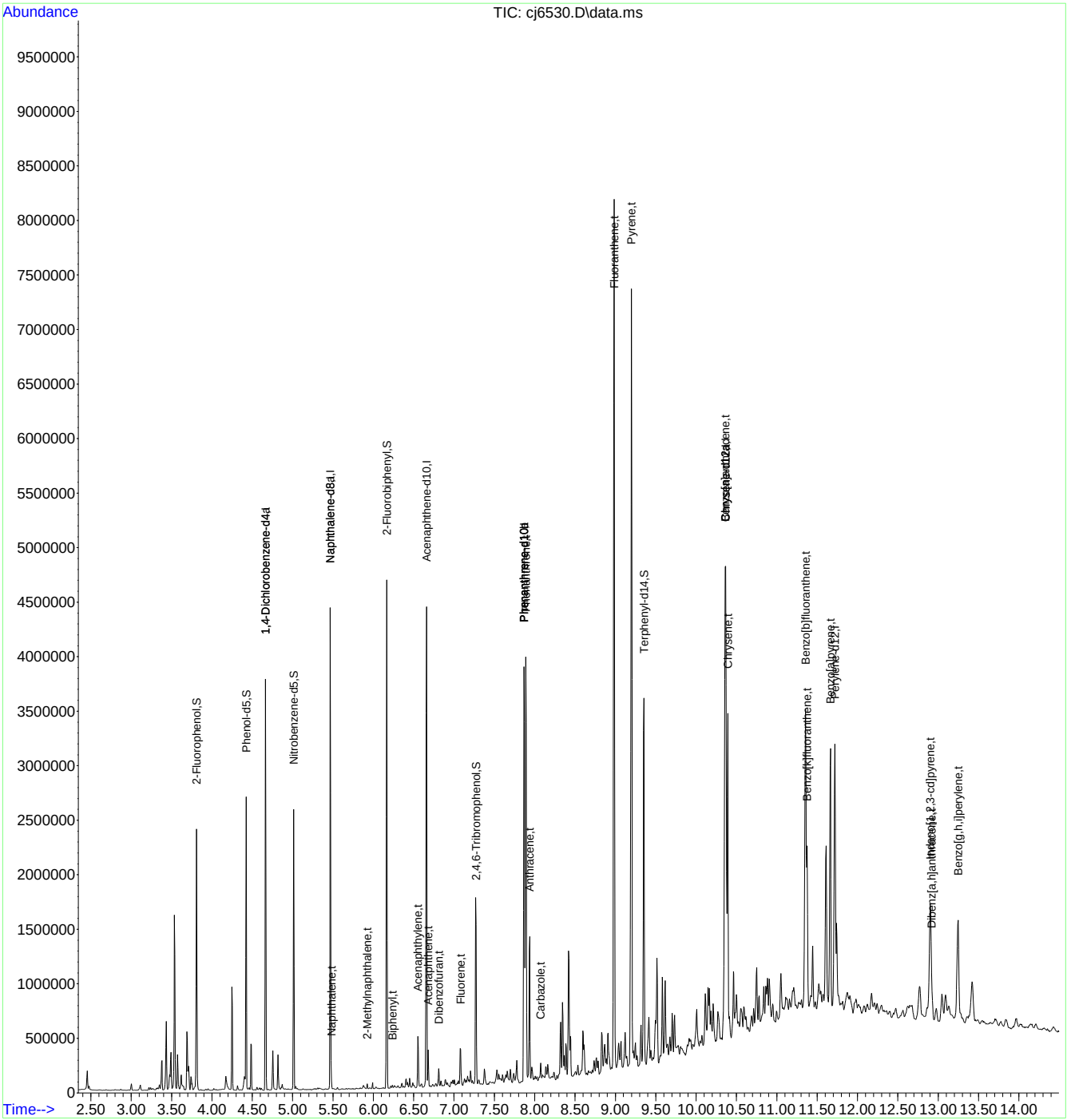
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.664	152	366062	40.00	ppm	0.00
24) Naphthalene-d8	5.466	136	1274378	40.00	ppm	0.00
46) Acenaphthene-d10	6.659	164	720354	40.00	ppm	0.00
69) Phenanthrene-d10	7.868	188	1262132	40.00	ppm	0.00
84) Chrysene-d12	10.366	240	880759	40.00	ppm	0.00
93) Perylene-d12	11.719	264	914016	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.664	152	366062	40.00	ppm	0.00
105) Phenanthrene-d10a	7.868	188	1262132	40.00	ppm	0.00
107) Naphthalene-d8a	5.466	136	1274378	40.00	ppm	0.00
109) Phenanthrene-d10b	7.868	188	1262132	40.00	ppm	0.00
112) Chrysene-d12a	10.366	240	880759	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.808	112	390625	37.12	ppm	0.01
Spiked Amount 50.000			Recovery =	74.24%		
8) Phenol-d5	4.423	99	517989	38.17	ppm	0.00
Spiked Amount 50.000			Recovery =	76.34%		
25) Nitrobenzene-d5	5.012	82	514721	39.45	ppm	0.00
Spiked Amount 50.000			Recovery =	78.90%		
51) 2-Fluorobiphenyl	6.167	172	944532	41.67	ppm	0.00
Spiked Amount 50.000			Recovery =	83.34%		
74) 2,4,6-Tribromophenol	7.274	330	131357	47.47	ppm	0.00
Spiked Amount 50.000			Recovery =	94.94%		
87) Terphenyl-d14	9.355	244	945094	43.43	ppm	0.00
Spiked Amount 50.000			Recovery =	86.86%		
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
38) Naphthalene	5.482	128	19217	0.6295	ppm	99
44) 2-Methylnaphthalene	5.926	141	8673	0.4792	ppm	93
53) Biphenyl	6.237	154	5684	0.2297	ppm	100
56) Acenaphthylene	6.552	152	152755	5.4674	ppm	99
59) Acenaphthene	6.680	153	55756	2.8062	ppm	98
62) Dibenzofuran	6.809	168	37164	1.3479	ppm	95
66) Fluorene	7.082	166	94085	4.3195	ppm	98
78) Phenanthrene	7.889	178	1234005	40.4562	ppm	99
79) Anthracene	7.937	178	454814	14.8915	ppm	96
80) Carbazole	8.071	167	51935	1.8249	ppm	99
82) Fluoranthene	8.986	202	2812014	85.1556	ppm	99
86) Pyrene	9.200	202	2472396	82.5417	ppm	99
89) Benzo[a]anthracene	10.360	228	1164805	41.1321	ppm	98
91) Chrysene	10.393	228	995885	38.1164	ppm	98
95) Benzo[b]fluoranthene	11.355	252	1322696m	47.9043	ppm	
96) Benzo[k]fluoranthene	11.377	252	331615m	13.3471	ppm	
97) Benzo[a]pyrene	11.665	252	924977	40.4676	ppm	98
98) Indeno[1,2,3-cd]pyrene	12.901	276	581547	21.0459	ppm	99
100) Dibenz[a,h]anthracene	12.917	278	144207	6.5313	ppm	90
102) Benzo[g,h,i]perylene	13.249	276	534522	24.8922	ppm	99

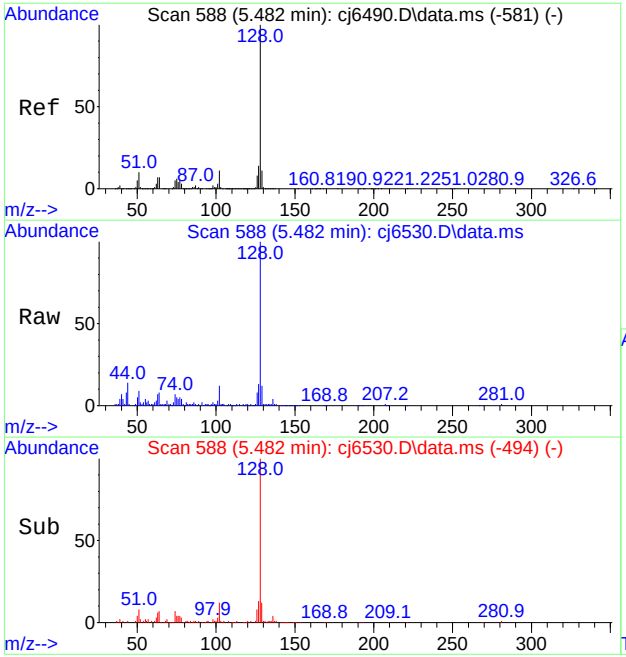
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4 Inst : GCMSCJ
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 10 19:04:17 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

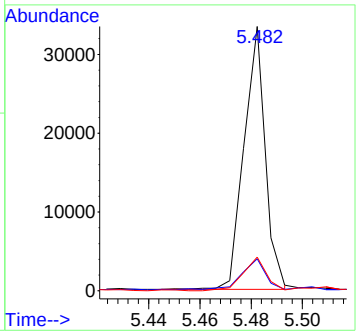


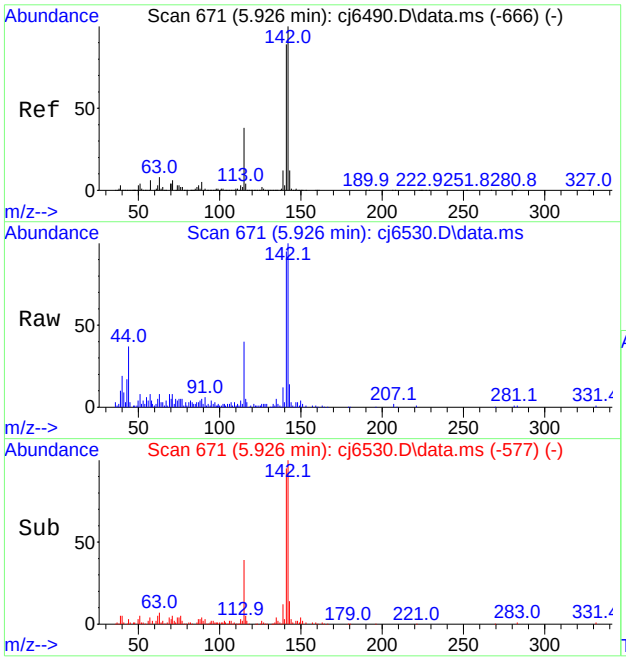


#38
Naphthalene
Concen: 0.6295 ppm
RT: 5.482 min Scan# 588
Delta R.T. 0.000 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:128 Resp: 19217

Ion	Ratio	Lower	Upper
128	100		
129	11.5	0.0	41.4
127	12.5	0.0	43.3

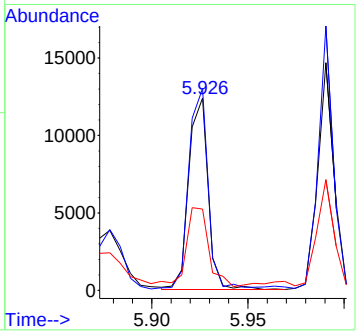


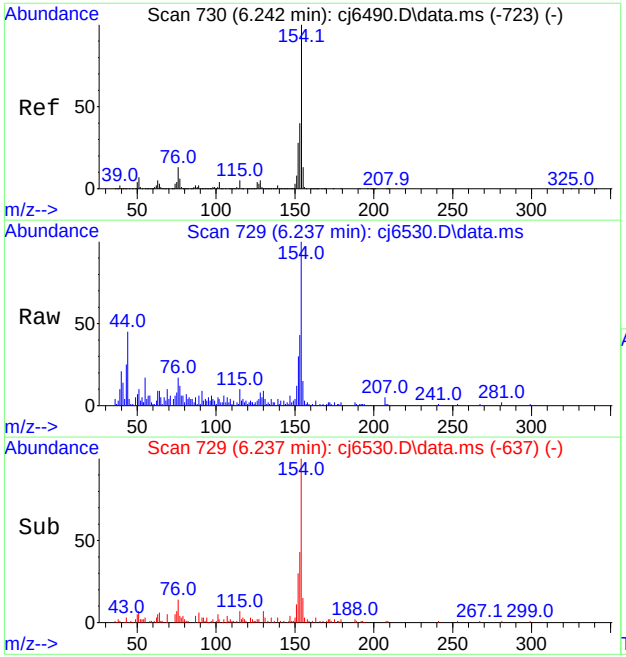


#44
2-Methylnaphthalene
Concen: 0.4792 ppm
RT: 5.926 min Scan# 671
Delta R.T. 0.000 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:141 Resp: 8673

Ion	Ratio	Lower	Upper
141	100		
142	104.5	82.7	142.7
115	38.1	12.4	72.4

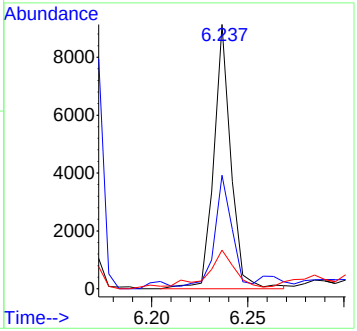


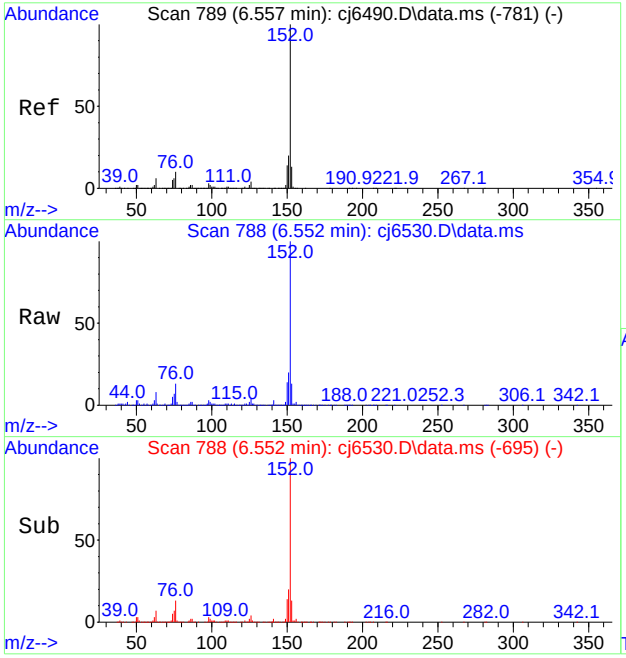


#53
Biphenyl
Concen: 0.2297 ppm
RT: 6.237 min Scan# 729
Delta R.T. -0.005 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:154 Resp: 5684

Ion	Ratio	Lower	Upper
154	100		
153	40.5	10.5	70.5
155	12.8	0.0	42.8

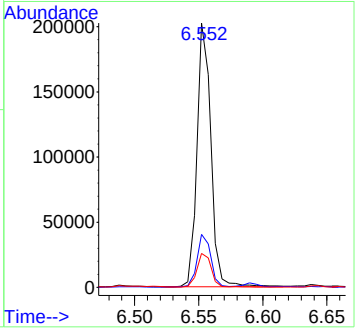


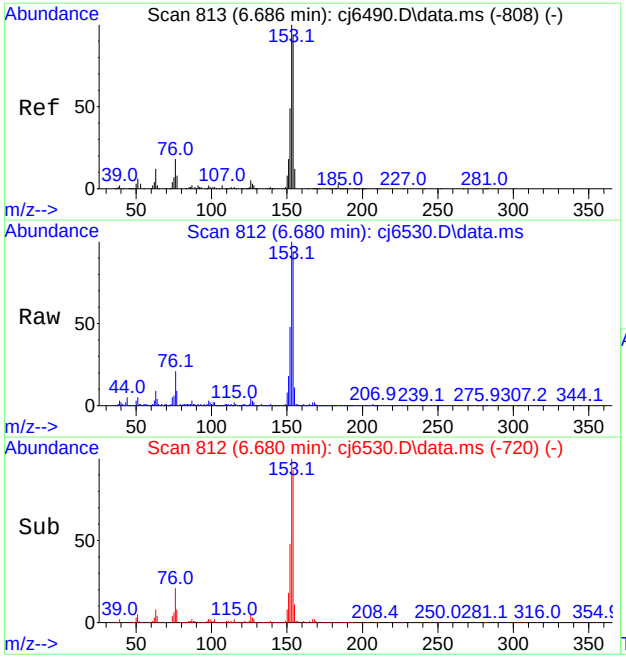


#56
Acenaphthylene
Concen: 5.4674 ppm
RT: 6.552 min Scan# 788
Delta R.T. -0.005 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:152 Resp: 152755

Ion	Ratio	Lower	Upper
152	100		
151	19.9	0.0	50.3
153	12.7	0.0	43.4

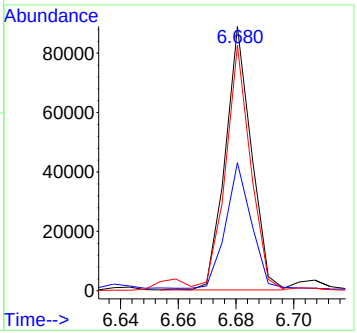


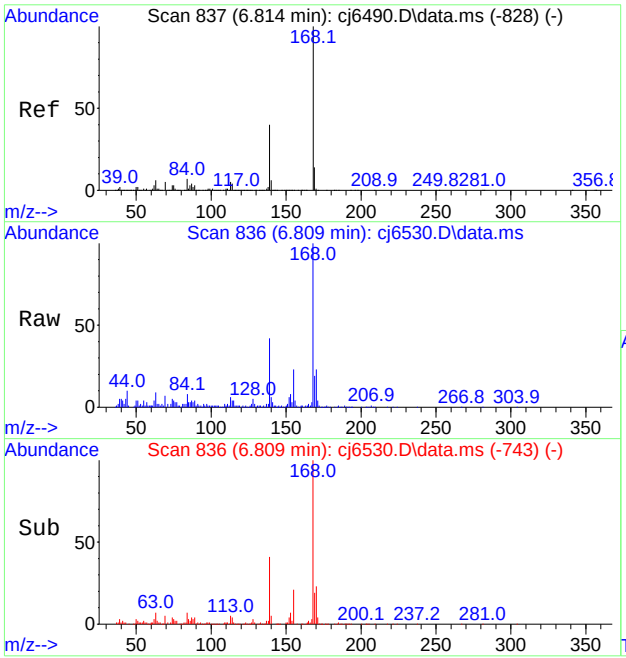


#59
Acenaphthene
Concen: 2.8062 ppm
RT: 6.680 min Scan# 812
Delta R.T. -0.006 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:153 Resp: 55756

Ion	Ratio	Lower	Upper
153	100		
152	47.6	18.8	78.8
154	91.4	62.9	122.9

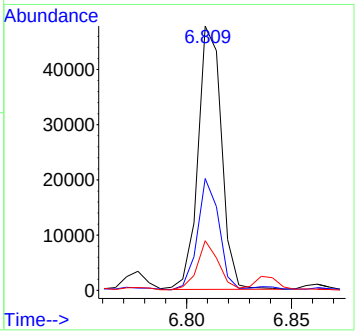


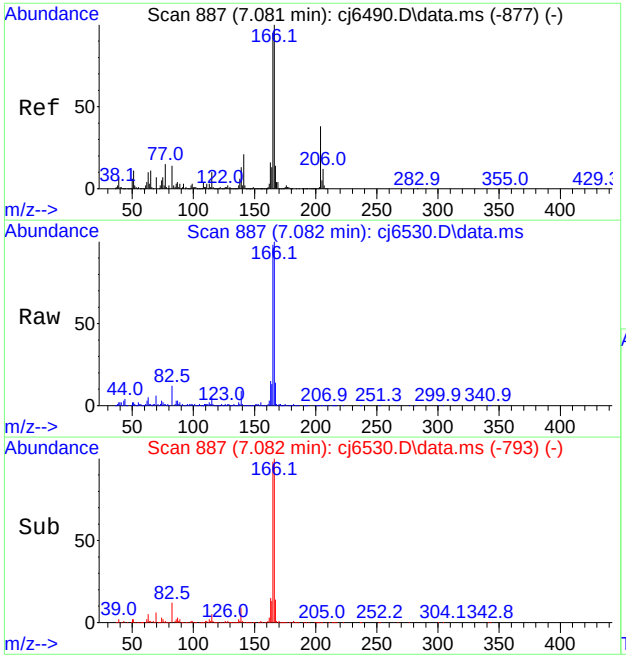


#62
Dibenzofuran
Concen: 1.3479 ppm
RT: 6.809 min Scan# 836
Delta R.T. -0.005 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:168 Resp: 37164

Ion	Ratio	Lower	Upper
168	100		
139	42.0	10.0	70.0
169	18.1	0.0	43.7

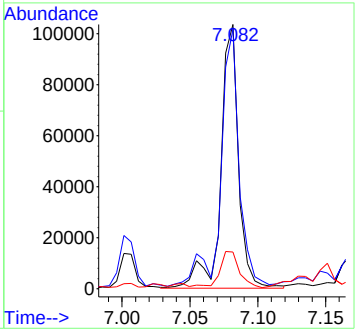


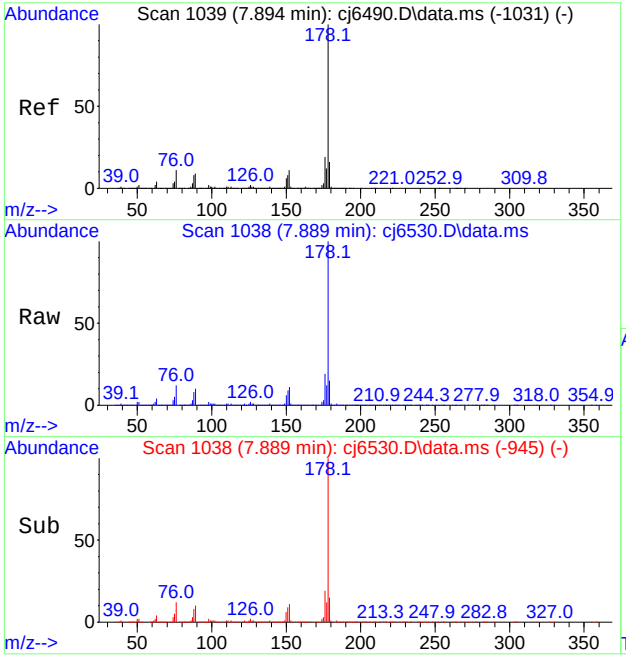


#66
Fluorene
Concen: 4.3195 ppm
RT: 7.082 min Scan# 887
Delta R.T. 0.001 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:166 Resp: 94085

Ion	Ratio	Lower	Upper
166	100		
165	96.9	65.4	125.4
167	11.8	0.0	43.8

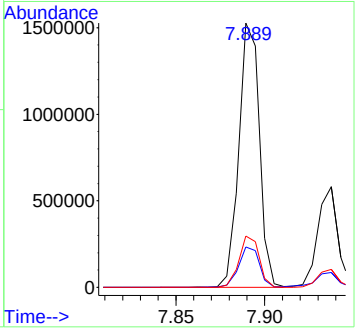


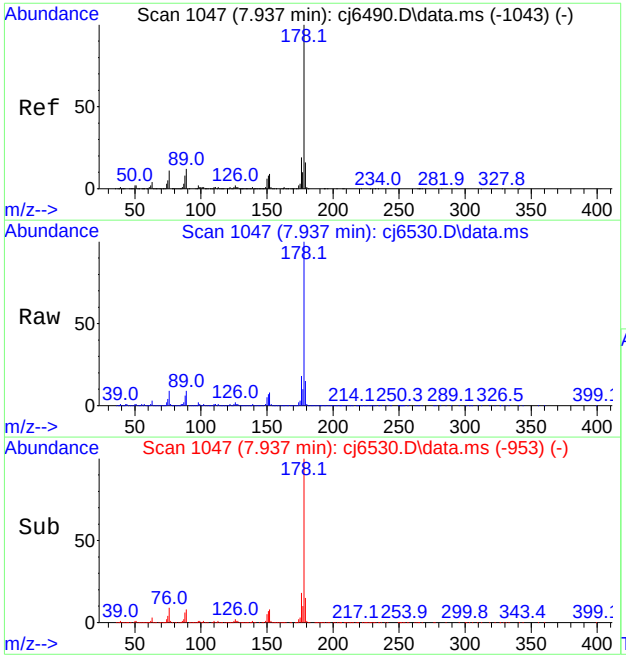


#78
Phenanthrene
Concen: 40.4562 ppm
RT: 7.889 min Scan# 1038
Delta R.T. -0.005 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:178 Resp: 1234005

Ion	Ratio	Lower	Upper
178	100		
179	15.2	0.0	45.5
176	19.4	0.0	49.2

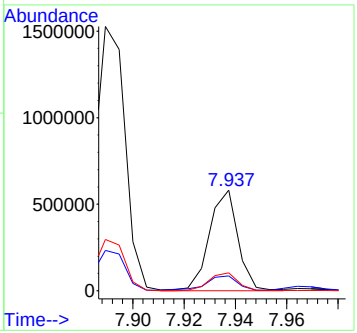


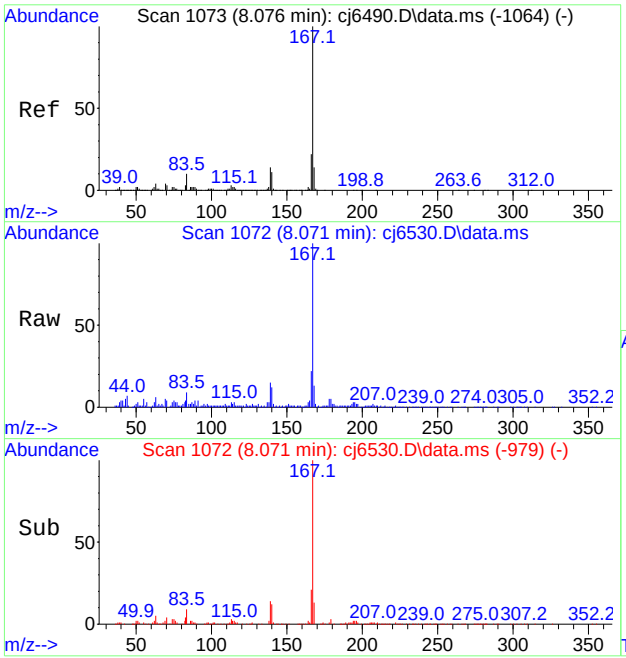


#79
Anthracene
Concen: 14.8915 ppm
RT: 7.937 min Scan# 1047
Delta R.T. 0.000 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:178 Resp: 454814

Ion	Ratio	Lower	Upper
178	100		
179	13.6	0.0	46.1
176	17.8	0.0	48.7

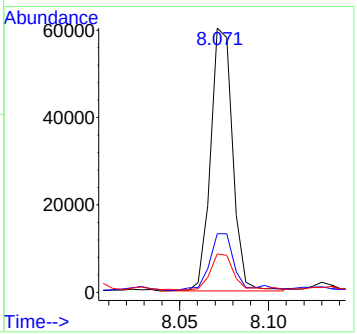


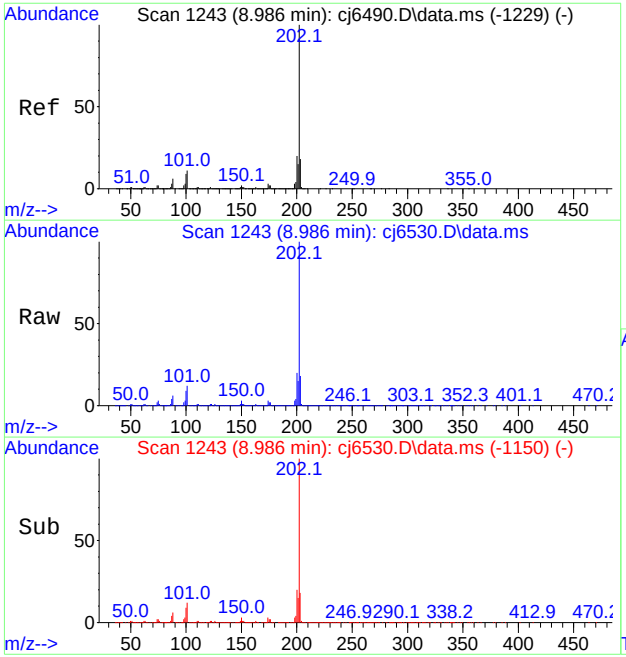


#80
Carbazole
Concen: 1.8249 ppm
RT: 8.071 min Scan# 1072
Delta R.T. -0.005 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:167 Resp: 51935

Ion	Ratio	Lower	Upper
167	100		
166	21.1	0.0	51.7
139	13.5	0.0	43.8

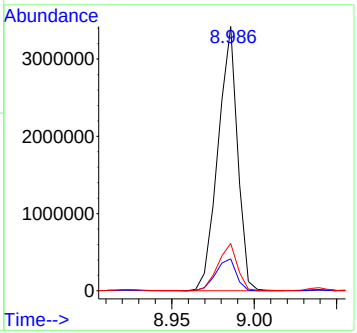


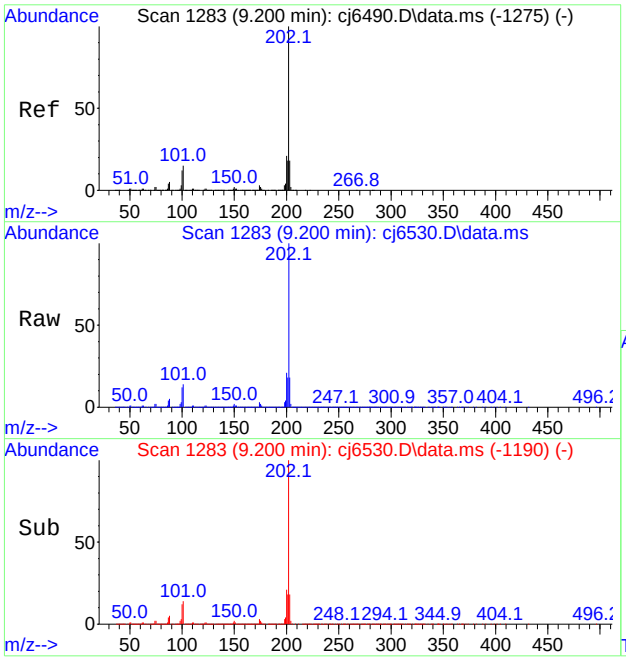


#82
Fluoranthene
Concen: 85.1556 ppm
RT: 8.986 min Scan# 1243
Delta R.T. -0.000 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:202 Resp: 2812014

Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	41.4
203	17.8	0.0	47.6

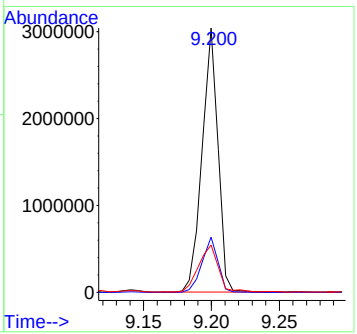


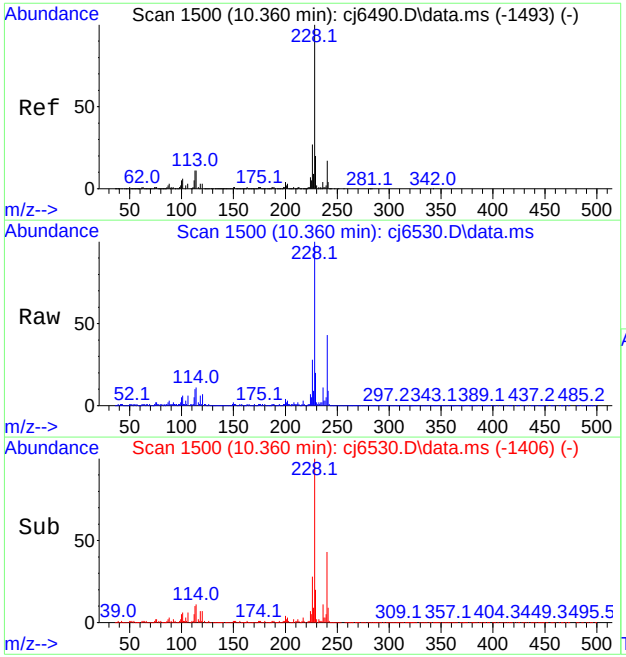


#86
Pyrene
Concen: 82.5417 ppm
RT: 9.200 min Scan# 1283
Delta R.T. -0.000 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:202 Resp: 2472396

Ion	Ratio	Lower	Upper
202	100		
200	20.9	0.0	51.4
203	17.8	0.0	47.8

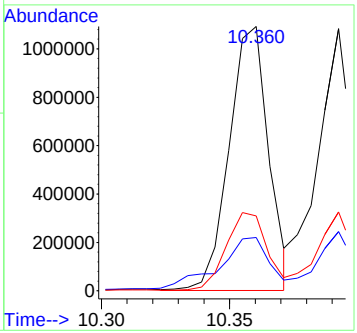


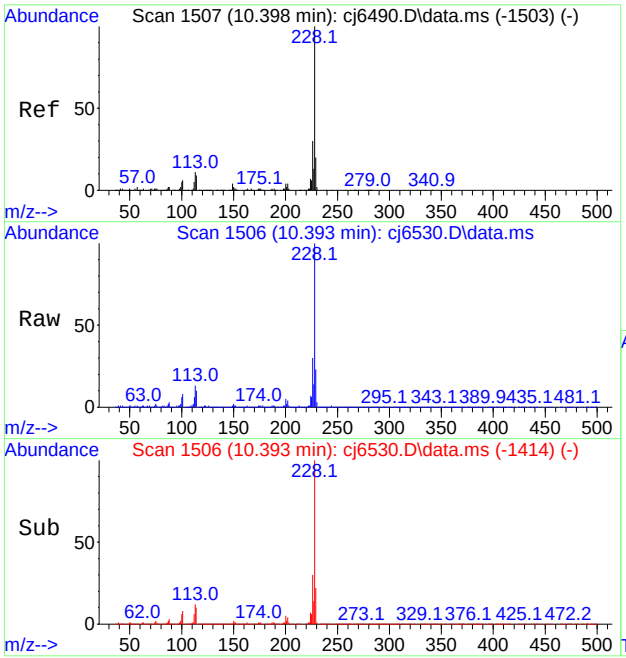


#89
Benzo[a]anthracene
Concen: 41.1321 ppm
RT: 10.360 min Scan# 1500
Delta R.T. 0.000 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:228 Resp: 1164805

Ion	Ratio	Lower	Upper
228	100		
229	19.2	0.0	49.8
226	28.0	0.0	57.1

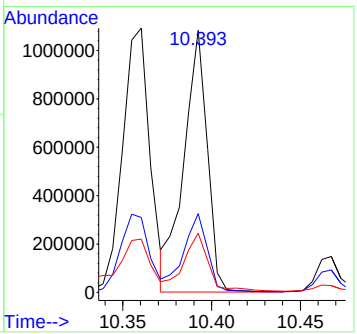


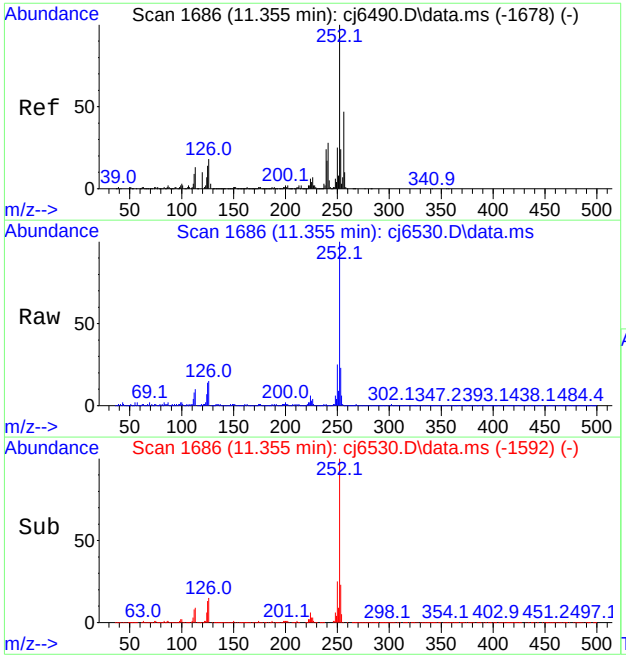


#91
Chrysene
Concen: 38.1164 ppm
RT: 10.393 min Scan# 1506
Delta R.T. -0.005 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:228 Resp: 995885

Ion	Ratio	Lower	Upper
228	100		
226	29.9	0.0	59.9
229	22.2	0.0	49.8

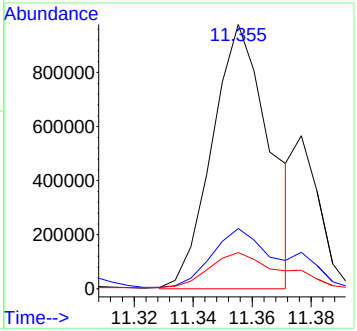


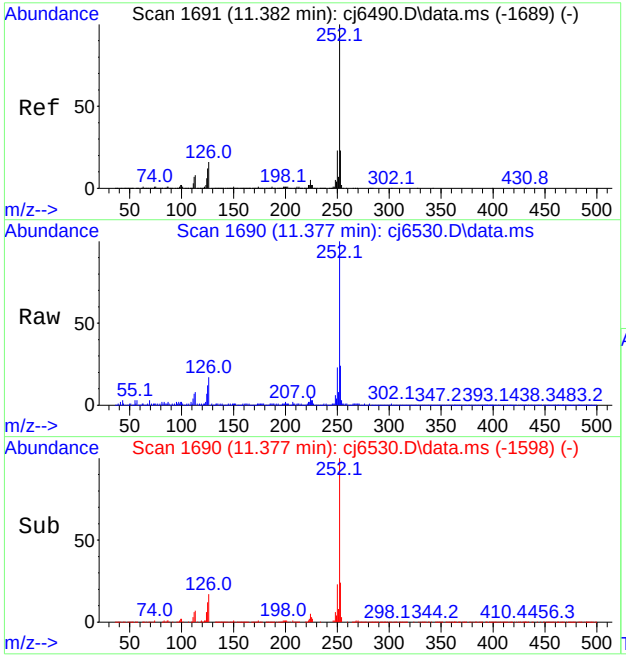


#95
Benzo[b]fluoranthene
Concen: 47.9043 ppm m
RT: 11.355 min Scan# 1686
Delta R.T. 0.000 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:252 Resp: 1322696

Ion	Ratio	Lower	Upper
252	100		
253	22.8	0.0	54.7
125	13.7	0.0	44.2

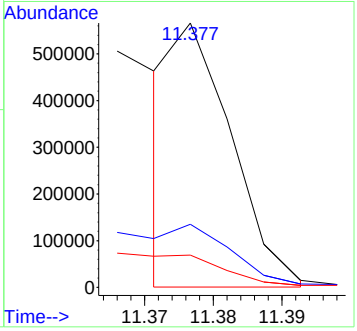


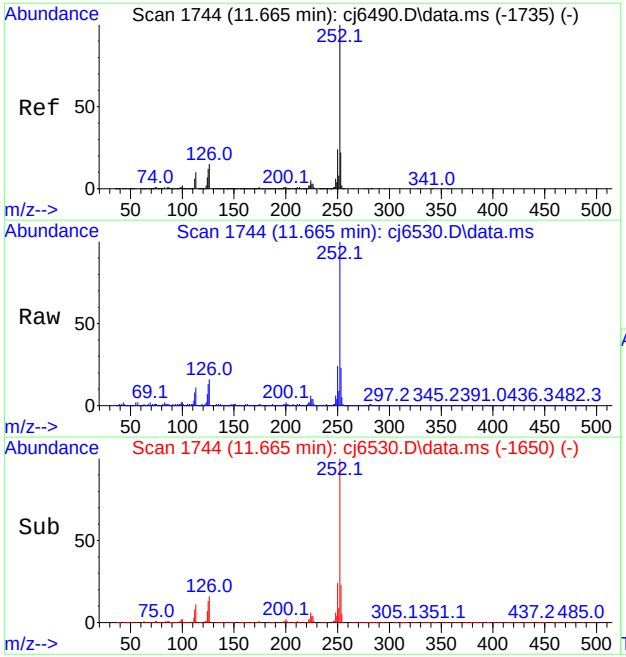


#96
Benzo[k]fluoranthene
Concen: 13.3471 ppm m
RT: 11.377 min Scan# 1690
Delta R.T. -0.005 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:252 Resp: 331615

Ion	Ratio	Lower	Upper
252	100		
253	23.9	0.0	52.6
125	12.2	0.0	42.4

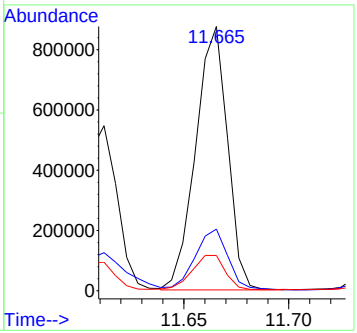


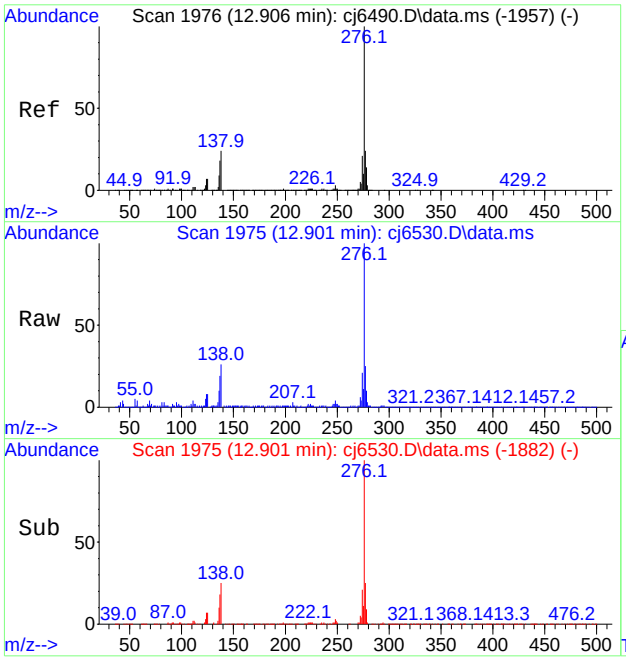


#97
Benzo[a]pyrene
Concen: 40.4676 ppm
RT: 11.665 min Scan# 1744
Delta R.T. 0.000 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:252 Resp: 924977

Ion	Ratio	Lower	Upper
252	100		
253	22.7	0.0	51.9
125	12.8	0.0	42.1

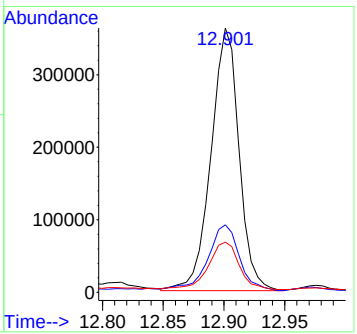


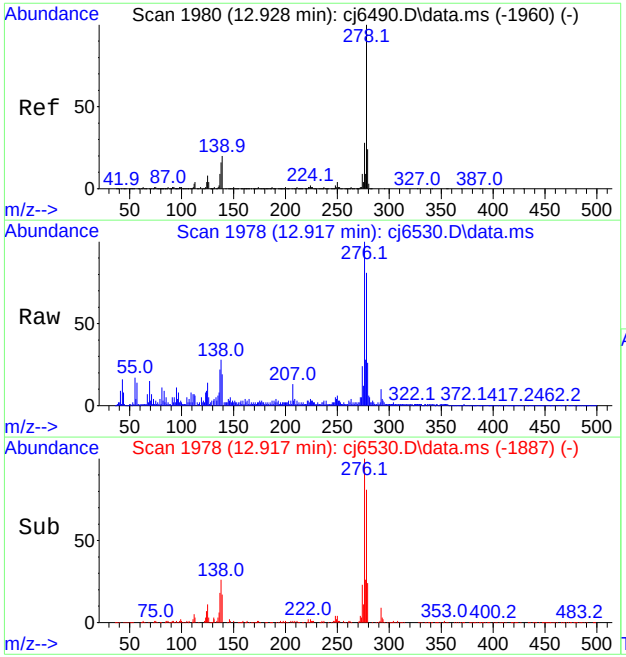


#98
Indeno[1,2,3-cd]pyrene
Concen: 21.0459 ppm
RT: 12.901 min Scan# 1975
Delta R.T. -0.005 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:276 Resp: 581547

Ion	Ratio	Lower	Upper
276	100		
138	24.9	0.0	54.2
137	18.0	0.0	47.9

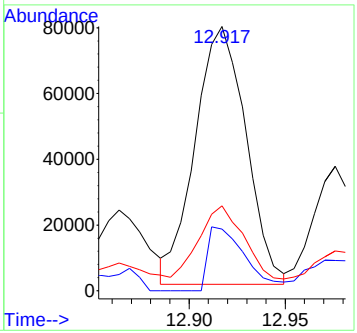


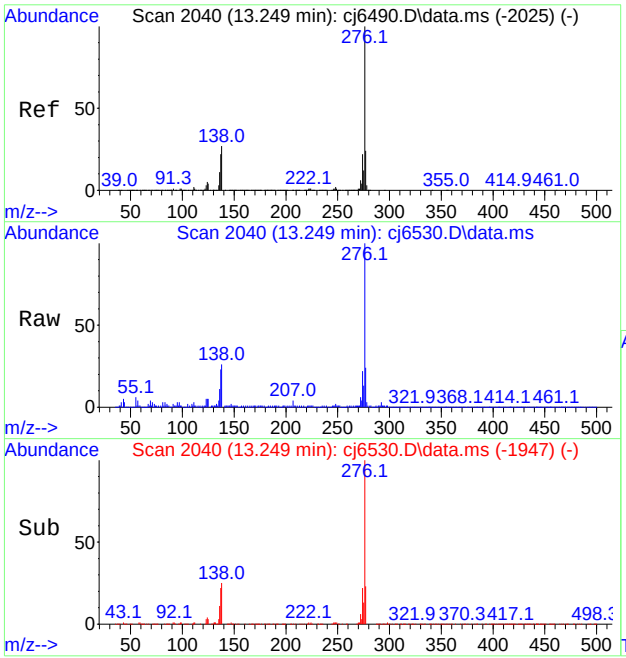


#100
Dibenz[a,h]anthracene
Concen: 6.5313 ppm
RT: 12.917 min Scan# 1978
Delta R.T. -0.011 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:278 Resp: 144207

Ion	Ratio	Lower	Upper
278	100		
139	24.0	0.0	49.8
279	29.7	0.0	54.1

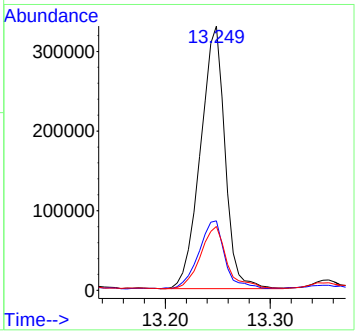




#102
Benzo[g,h,i]perylene
Concen: 24.8922 ppm
RT: 13.249 min Scan# 2040
Delta R.T. -0.000 min
Lab File: cj6530.D
Acq: 09 May 2024 09:45 pm

Tgt Ion:276 Resp: 534522

Ion	Ratio	Lower	Upper
276	100		
138	25.7	0.0	56.7
277	23.7	0.0	54.1



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6530.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.172	332	343	353	rVV	127374	183379	2.69%	0.193%
2	4.247	353	357	366	rVB	948200	643523	9.45%	0.679%
3	4.423	380	390	395	rBV	2688223	1661532	24.40%	1.753%
4	4.482	399	401	408	rVB	422827	297554	4.37%	0.314%
5	4.664	431	435	439	rBV	3771537	2221534	32.63%	2.344%
6	4.755	445	452	460	rBV	361190	262702	3.86%	0.277%
7	4.819	460	464	469	rBV	320418	213529	3.14%	0.225%
8	5.012	495	500	504	rBV	2568927	1475415	21.67%	1.557%
9	5.466	577	585	591	rBV	4418303	2776639	40.78%	2.930%
10	6.167	710	716	723	rVB	4662108	2827375	41.53%	2.983%
11	6.552	783	788	793	rBV	471503	356042	5.23%	0.376%
12	6.659	800	808	811	rBV	4406252	3169659	46.55%	3.345%
13	6.680	811	812	819	rVB	340609	172306	2.53%	0.182%
14	6.809	832	836	839	rBV	162550	127951	1.88%	0.135%
15	7.076	875	886	892	rVB	339713	363260	5.34%	0.383%
16	7.269	917	922	927	rBV	1705815	1346695	19.78%	1.421%
17	7.376	938	942	949	rVB2	145599	148402	2.18%	0.157%
18	7.531	965	971	973	rBV3	126400	146020	2.14%	0.154%
19	7.777	1013	1017	1025	rVB	207359	220965	3.25%	0.233%
20	7.868	1025	1034	1036	rBV	3816561	3234668	47.51%	3.413%
21	7.889	1036	1038	1042	rVB	3855257	2965228	43.55%	3.129%
22	7.937	1042	1047	1050	rVB	1300244	1035024	15.20%	1.092%
23	8.077	1066	1073	1076	rBV2	165201	199920	2.94%	0.211%
24	8.323	1112	1119	1121	rBV	517988	490956	7.21%	0.518%
25	8.344	1121	1123	1126	rBV	598979	426785	6.27%	0.450%
26	8.387	1129	1131	1134	rVB	285600	229127	3.37%	0.242%
27	8.419	1134	1137	1147	rVB	1152276	1387926	20.39%	1.465%
28	8.595	1162	1170	1178	rBV2	406131	625350	9.18%	0.660%
29	8.734	1190	1196	1199	rBV2	119827	137875	2.03%	0.145%
30	8.831	1209	1214	1217	rBV	377104	401276	5.89%	0.423%
31	8.868	1217	1221	1225	rBV	201434	237760	3.49%	0.251%
32	8.911	1225	1229	1235	rVB	333045	405057	5.95%	0.427%
33	8.986	1235	1243	1248	rBV	7978186	6714636	98.62%	7.085%
34	9.039	1248	1253	1256	rBV4	225513	268211	3.94%	0.283%
35	9.071	1256	1259	1263	rVB	240073	214266	3.15%	0.226%
36	9.120	1263	1268	1275	rBV4	322892	438432	6.44%	0.463%
37	9.200	1275	1283	1289	rBV	7132157	6808528	100.00%	7.184%
38	9.317	1299	1305	1307	rBV	383015	336704	4.95%	0.355%
39	9.355	1307	1312	1317	rVB	3360450	3028748	44.48%	3.196%
40	9.414	1317	1323	1326	rBV2	434672	593897	8.72%	0.627%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.515	1331	1342	1346	rVB	964303	1359405	19.97%	1.434%
42	9.579	1346	1354	1357	rBV	790641	840613	12.35%	0.887%
43	9.617	1357	1361	1364	rBV	667596	601078	8.83%	0.634%
44	9.676	1369	1372	1374	rBV3	165984	142390	2.09%	0.150%
45	9.703	1374	1377	1380	rVB	356482	279567	4.11%	0.295%
46	9.735	1380	1383	1387	rBV	338307	303691	4.46%	0.320%
47	9.809	1394	1397	1408	rVB6	82482	184053	2.70%	0.194%
48	9.911	1408	1416	1423	rBV6	155534	461808	6.78%	0.487%
49	10.007	1428	1434	1440	rBV2	343781	453549	6.66%	0.479%
50	10.114	1449	1454	1457	rBV2	476396	546778	8.03%	0.577%
51	10.146	1457	1460	1466	rBV2	392464	584094	8.58%	0.616%
52	10.211	1470	1472	1478	rVB	348876	342147	5.03%	0.361%
53	10.269	1478	1483	1489	rBV2	277461	425043	6.24%	0.448%
54	10.366	1493	1501	1504	rBV2	4342152	6709827	98.55%	7.080%
55	10.393	1504	1506	1514	rVB	2976079	2394304	35.17%	2.526%
56	10.462	1514	1519	1522	rBV	608615	701122	10.30%	0.740%
57	10.499	1522	1526	1533	rVB3	295407	375665	5.52%	0.396%
58	10.553	1533	1536	1541	rVB3	169639	245351	3.60%	0.259%
59	10.590	1541	1543	1547	rBV	185551	226489	3.33%	0.239%
60	10.687	1556	1561	1564	rBV3	145774	202511	2.97%	0.214%
61	10.713	1564	1566	1568	rVV	203159	171661	2.52%	0.181%
62	10.751	1568	1573	1576	rVV	571971	682791	10.03%	0.720%
63	10.783	1576	1579	1582	rVV	302372	315369	4.63%	0.333%
64	10.836	1582	1589	1592	rVV3	378477	573063	8.42%	0.605%
65	10.863	1592	1594	1596	rVV3	371437	396537	5.82%	0.418%
66	10.885	1596	1598	1600	rVV	438707	417485	6.13%	0.441%
67	10.906	1600	1602	1607	rVV3	426282	526990	7.74%	0.556%
68	10.949	1607	1610	1616	rVV2	186330	238747	3.51%	0.252%
69	11.050	1623	1629	1633	rVV3	443040	612214	8.99%	0.646%
70	11.109	1636	1640	1647	rVV7	210124	519073	7.62%	0.548%
71	11.157	1647	1649	1652	rVV2	182654	222218	3.26%	0.234%
72	11.211	1652	1659	1667	rVV4	273476	800337	11.75%	0.844%
73	11.270	1667	1670	1675	rVV7	123559	268330	3.94%	0.283%
74	11.307	1675	1677	1679	rVV	137587	129649	1.90%	0.137%
75	11.355	1679	1686	1694	rVV	2788561	4898474	71.95%	5.169%
76	11.446	1694	1703	1707	rVV2	599120	852877	12.53%	0.900%
77	11.521	1712	1717	1720	rVV4	233929	389122	5.72%	0.411%
78	11.575	1724	1727	1729	rVV3	122588	158926	2.33%	0.168%
79	11.612	1729	1734	1739	rVV	1471471	1709064	25.10%	1.803%
80	11.665	1739	1744	1748	rVB	2361625	2497053	36.68%	2.635%
81	11.719	1748	1754	1757	rBV	2402582	2817732	41.39%	2.973%
82	11.740	1757	1758	1766	rVB2	753408	653599	9.60%	0.690%
83	11.874	1775	1783	1787	rBV8	161916	396307	5.82%	0.418%
84	11.981	1796	1803	1806	rBV4	130221	270787	3.98%	0.286%
85	12.013	1807	1809	1817	rVB2	83882	149464	2.20%	0.158%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.174	1835	1839	1843	rVV3	174415	252065	3.70%	0.266%
87	12.297	1856	1862	1866	rBV4	76449	140734	2.07%	0.148%
88	12.473	1886	1895	1902	rVB10	89940	195026	2.86%	0.206%
89	12.623	1916	1923	1926	rBV3	93251	197431	2.90%	0.208%
90	12.767	1942	1950	1962	rBV4	303655	699742	10.28%	0.738%
91	12.901	1963	1975	1984	rVV2	1060093	2072517	30.44%	2.187%
92	12.976	1984	1989	1995	rVB2	118933	177132	2.60%	0.187%
93	13.045	1997	2002	2006	rBV	250379	394278	5.79%	0.416%
94	13.094	2006	2011	2015	rVV3	232249	426840	6.27%	0.450%
95	13.131	2015	2018	2030	rVV8	131474	322556	4.74%	0.340%
96	13.249	2032	2040	2056	rVB	941735	1726805	25.36%	1.822%
97	13.420	2063	2072	2079	rVB	360583	737874	10.84%	0.779%
98	13.703	2120	2125	2134	rVB9	65967	156280	2.30%	0.165%
99	13.837	2145	2150	2163	rVB4	88329	209700	3.08%	0.221%
100	13.971	2164	2175	2180	rBV4	93597	219986	3.23%	0.232%

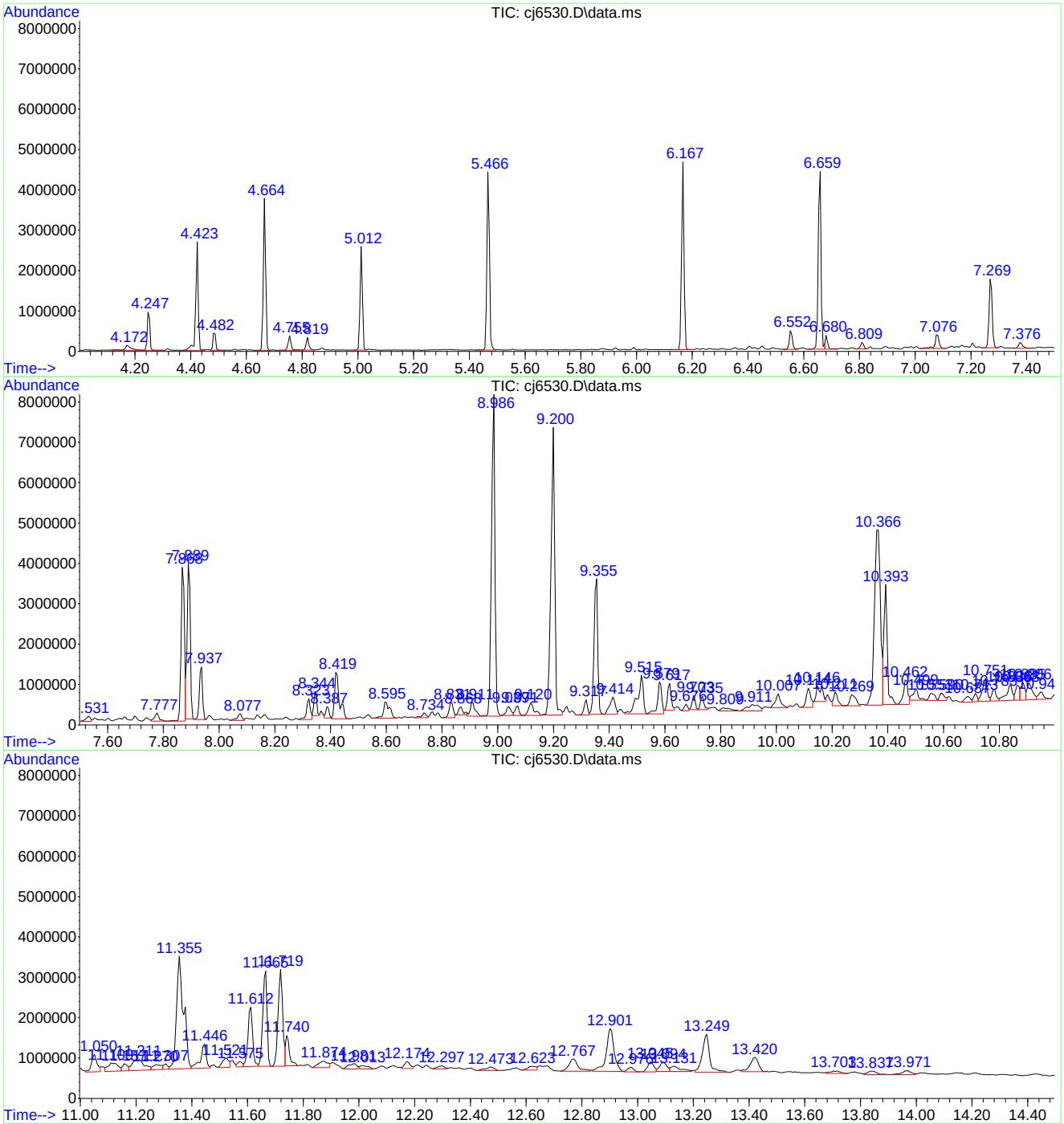
Sum of corrected areas: 94771176

LSC Report - Integrated Chromatogram

```
Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6530.D
Acq On    : 09 May 2024  09:45 pm
Operator  : rocquans
Sample    : jd87833-4
Misc      : op54460,ecj297,30.2,,,1,1
ALS Vial  : 21   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title  : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

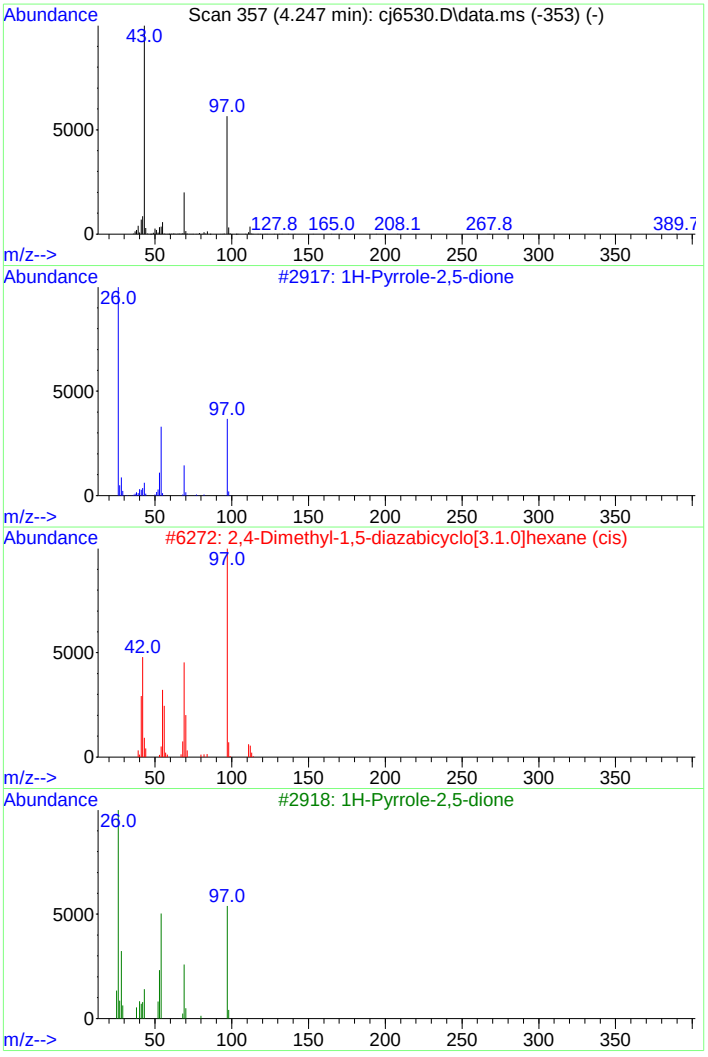
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

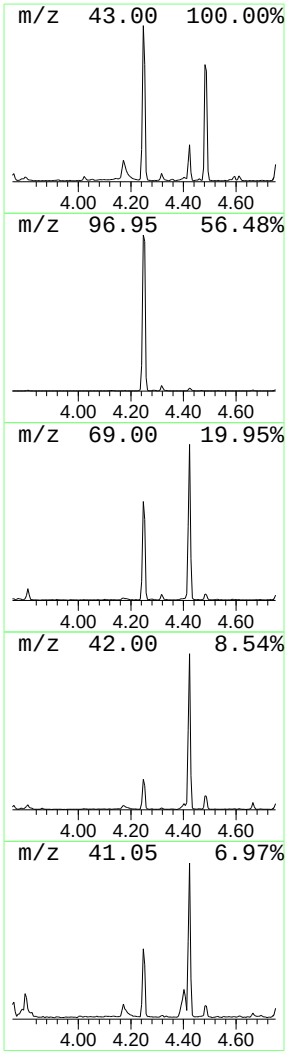
****

Peak Number 1 Unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.247	11.59 ppm	643523	1,4-Dichlorobenzene-d4a	4.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	50
2	2,4-Dimethyl-1,5-diazabicyclo[3....	112	C6H12N2	100463-01-2	40
3	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	25
4	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	25
5	5-Hexen-2-one	98	C6H10O	000109-49-9	14





Library Search Compound Report

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Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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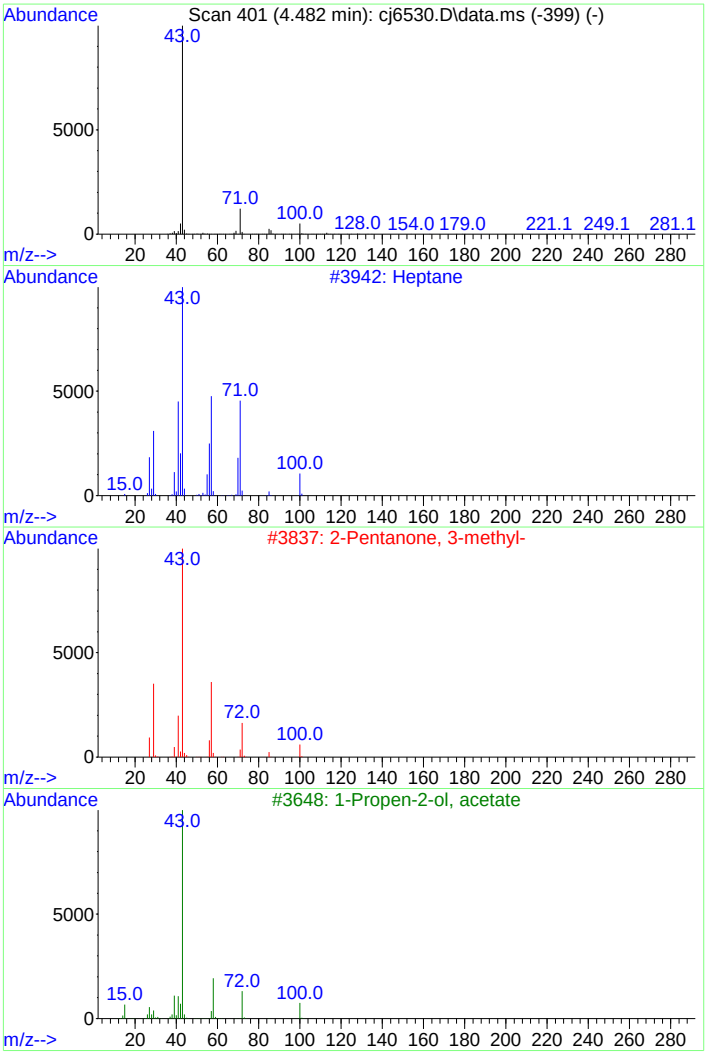
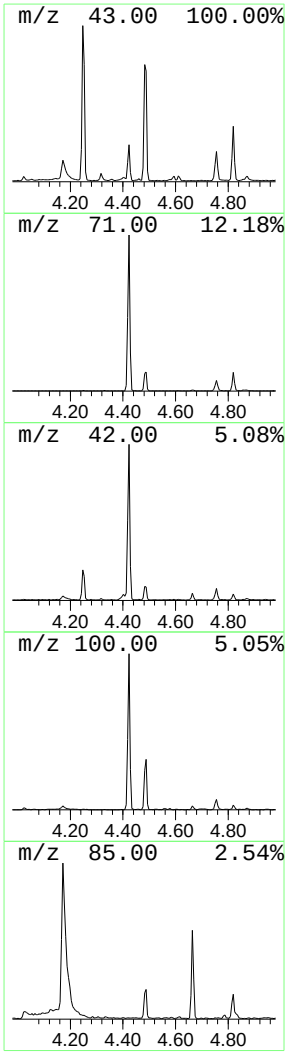
Peak Number 2 Unknown Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.482	5.36 ppm	297554	1,4-Dichlorobenzene-d4a	4.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane	100	C7H16	000142-82-5	9
2	2-Pentanone, 3-methyl-	100	C6H12O	000565-61-7	9
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	9
4	2-Pentanone, 3-methyl-	100	C6H12O	000565-61-7	9
5	3,6-Heptanedione	128	C7H12O2	001703-51-1	9





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Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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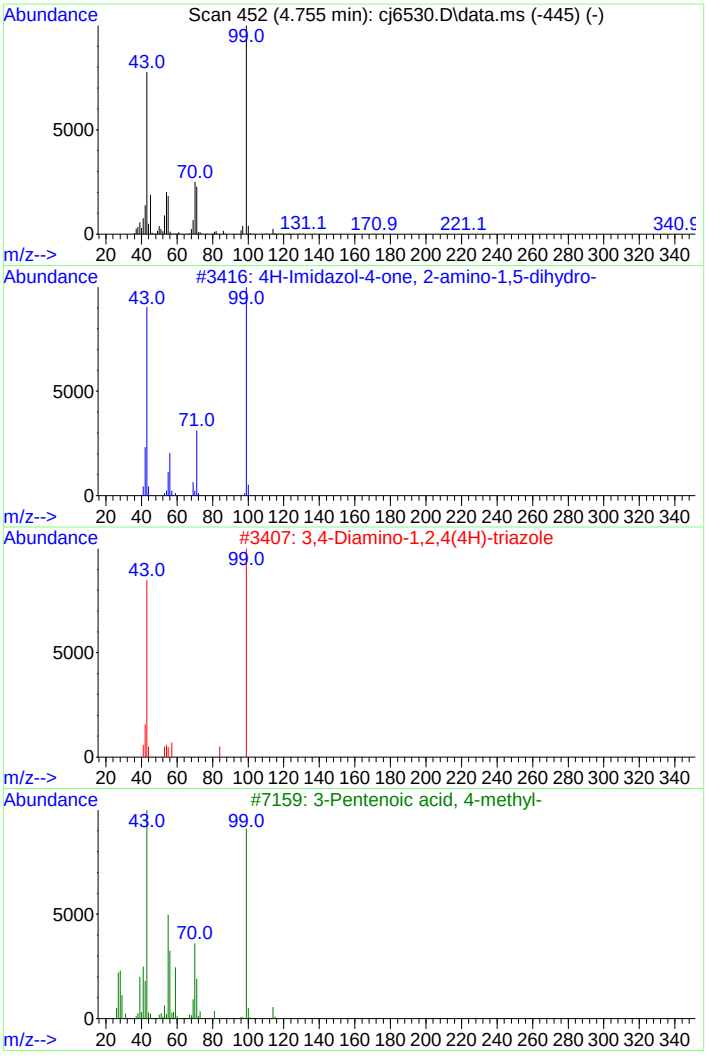
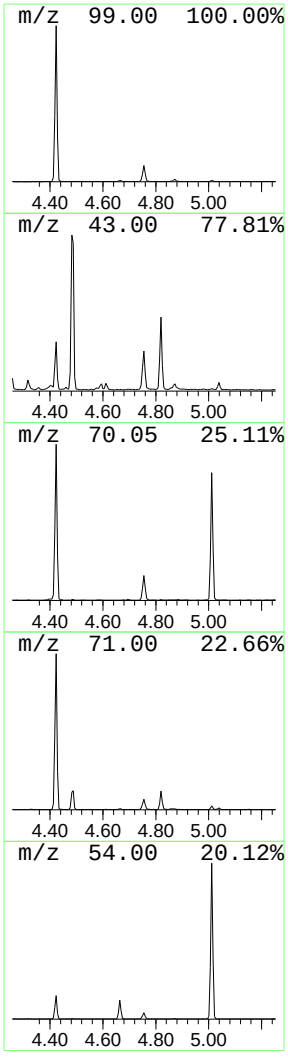
Peak Number 3 Unknown Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.755	4.73 ppm	262702	1,4-Dichlorobenzene-d4a	4.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Imidazol-4-one, 2-amino-1,5-d...	99	C3H5N3O	000503-86-6	53
2	3,4-Diamino-1,2,4(4H)-triazole	99	C2H5N5	038104-45-9	43
3	3-Pentenoic acid, 4-methyl-	114	C6H10O2	000504-85-8	42
4	2H-Pyran-2-one, 6-hexyltetrahydro-	184	C11H20O2	000710-04-3	40
5	.beta.-Acetylacrylic acid	114	C5H6O3	004743-82-2	38





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ALS Vial : 21 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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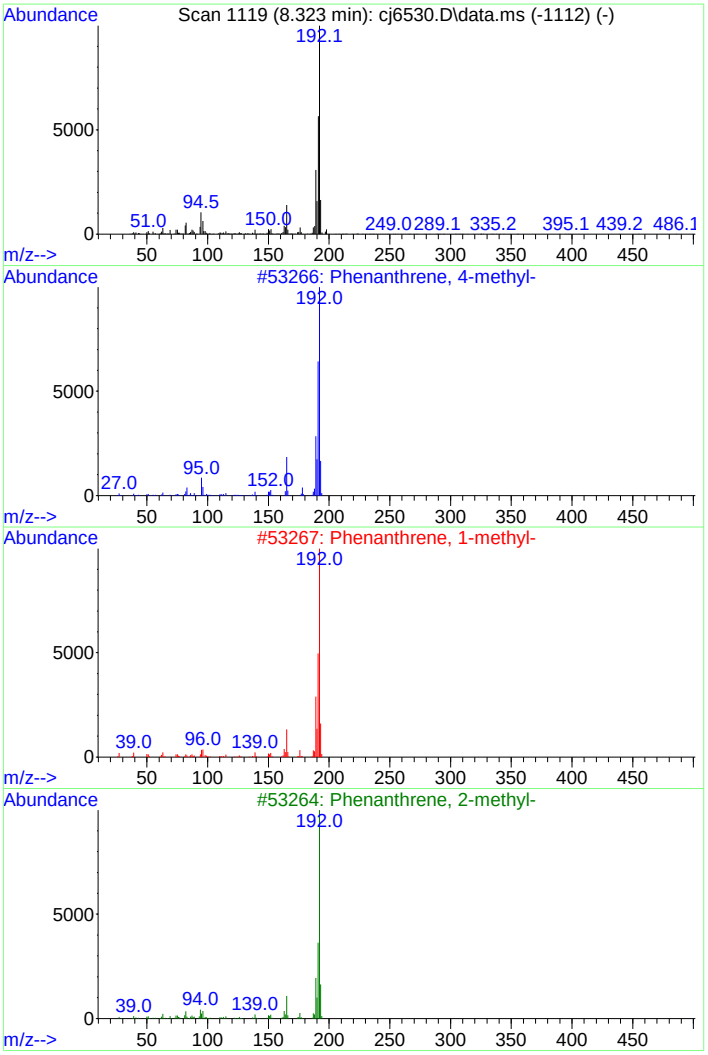
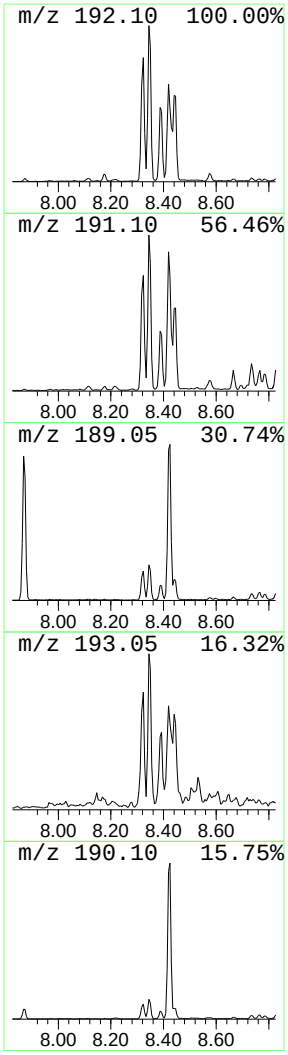
Peak Number 4 Phenanthrene, methyl Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.323	6.07 ppm	490956	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	92





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ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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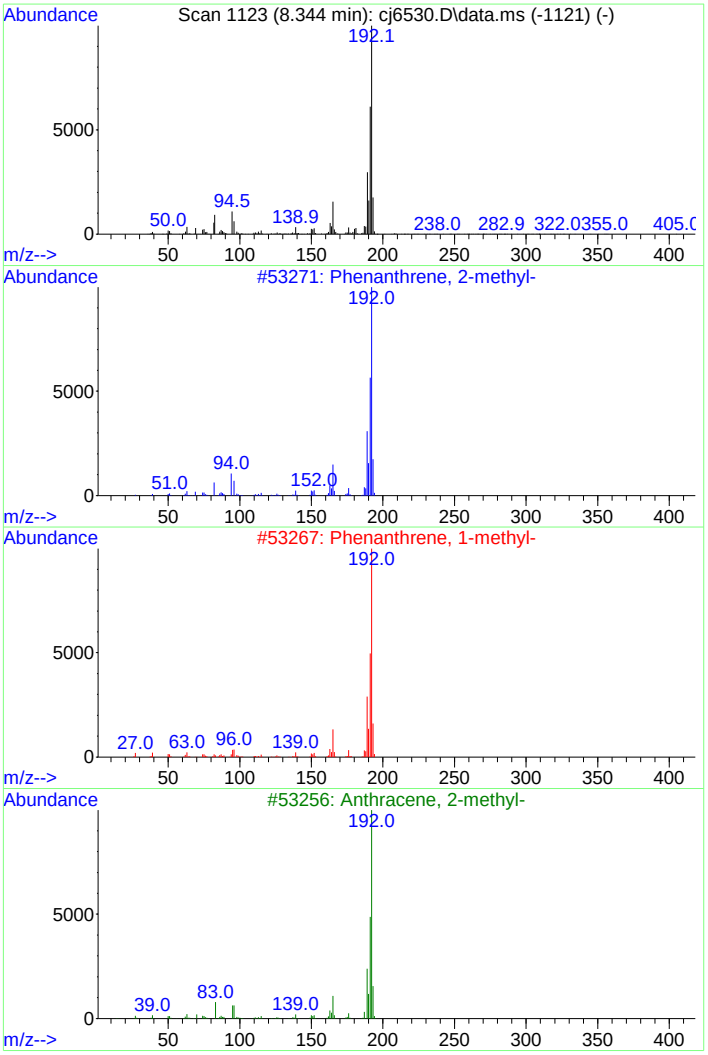
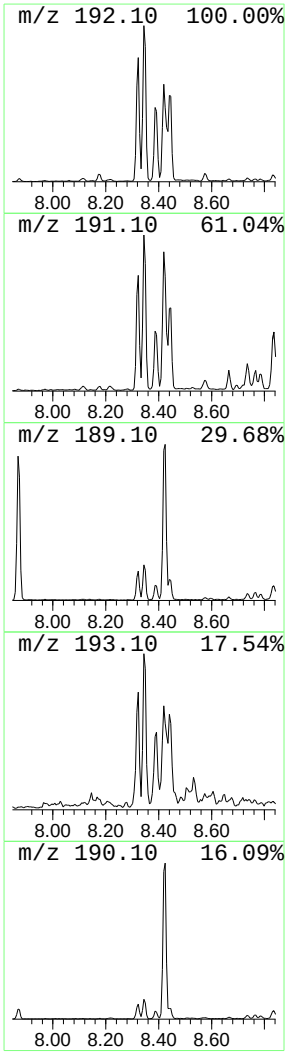
Peak Number 5 Phenanthrene, methyl Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.344	5.28 ppm	426785	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96





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Acq On : 09 May 2024 09:45 pm
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Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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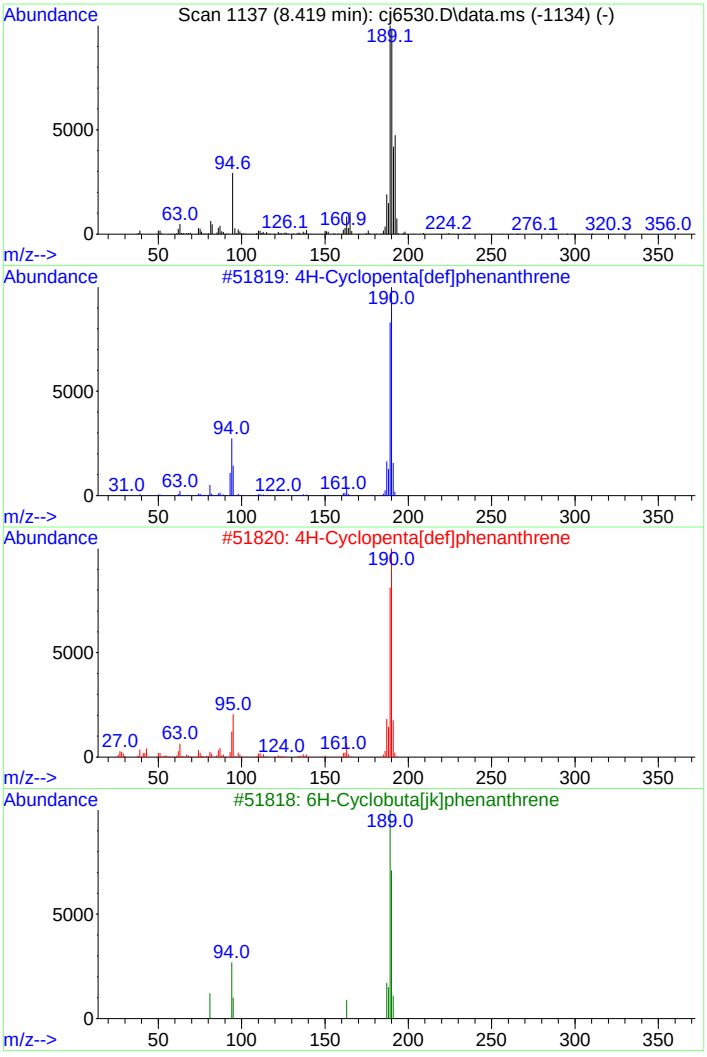
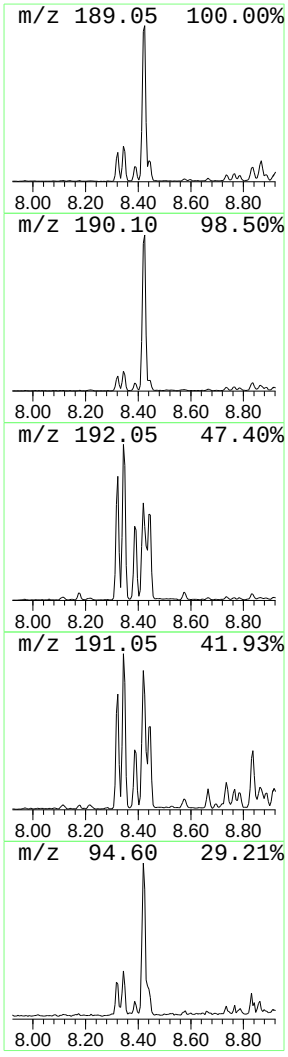
Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.419	17.16 ppm	1387930	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	58
4	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	50
5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	50





Library Search Compound Report

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Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
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Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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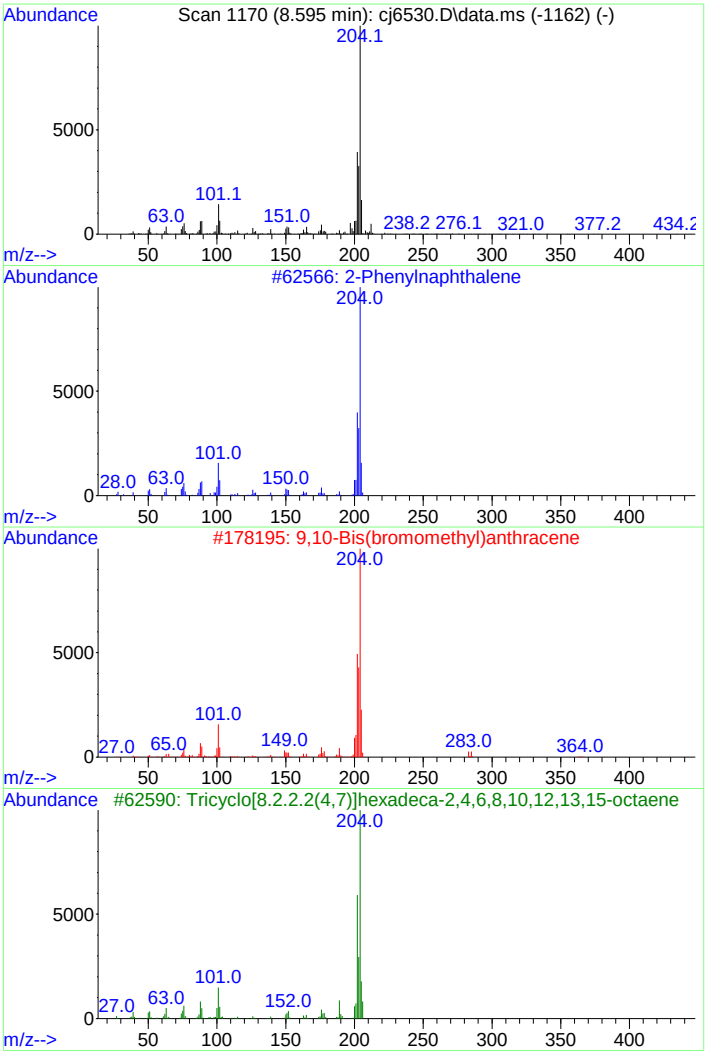
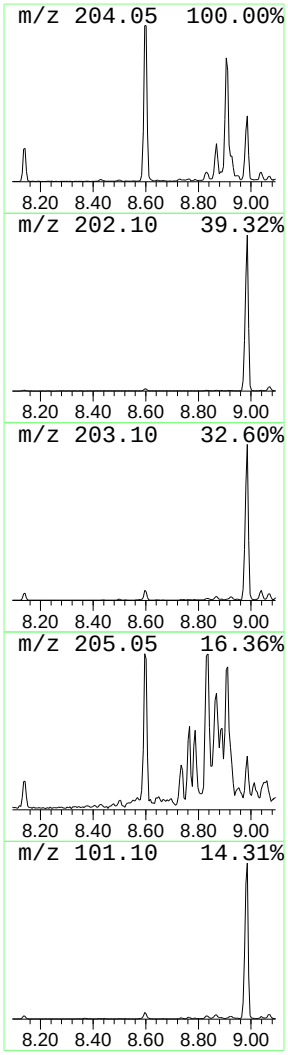
Peak Number 7 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.595	7.73 ppm	625350	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	93
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	86
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	86
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	83
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	78





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Acq On : 09 May 2024 09:45 pm
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Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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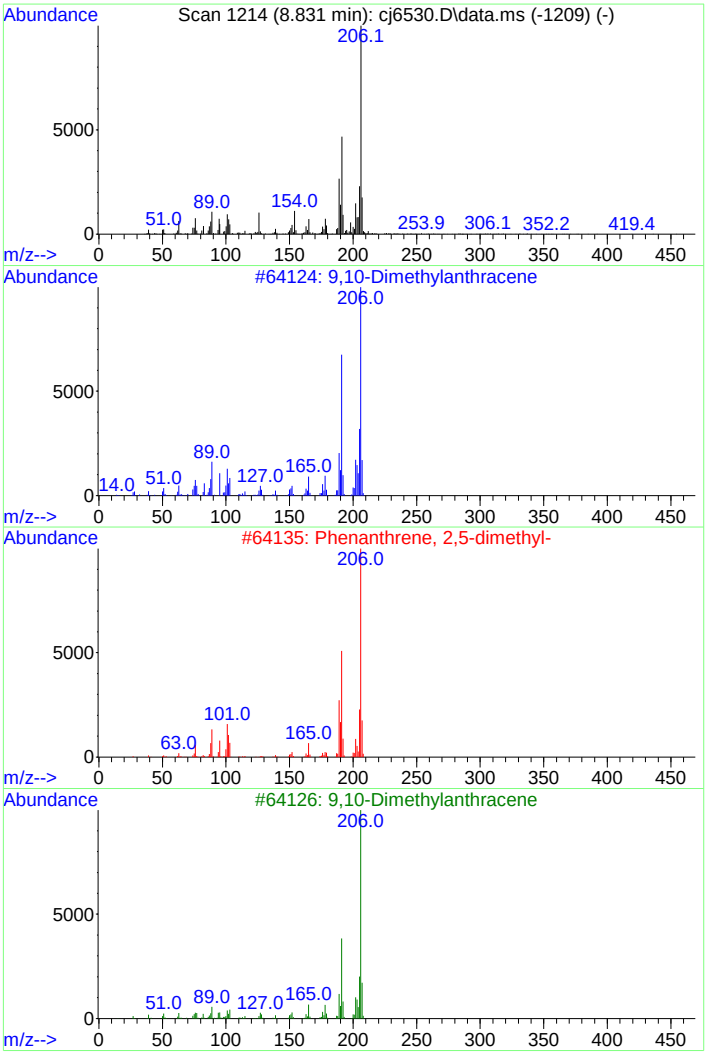
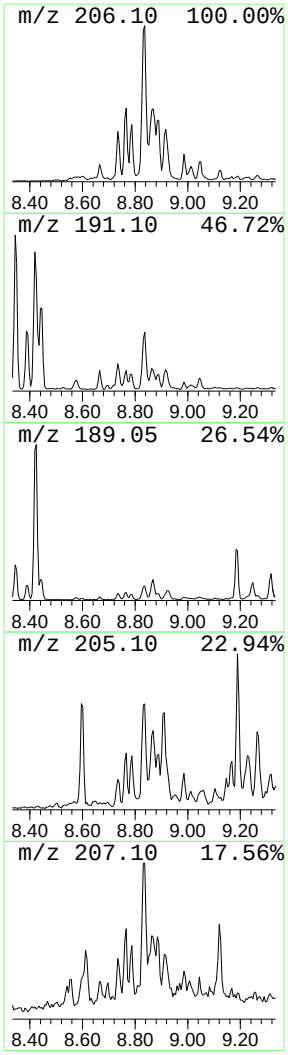
Peak Number 8 Anthracene, dimethyl Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.831	4.96 ppm	401276	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	97
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	95
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91





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Sample : jd87833-4
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ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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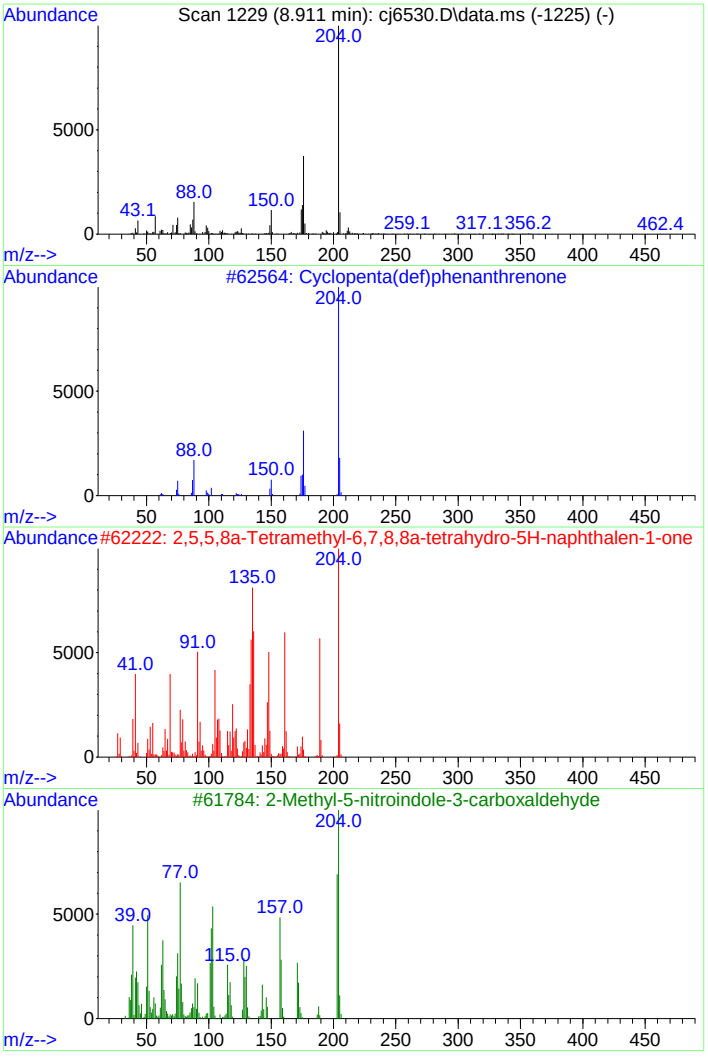
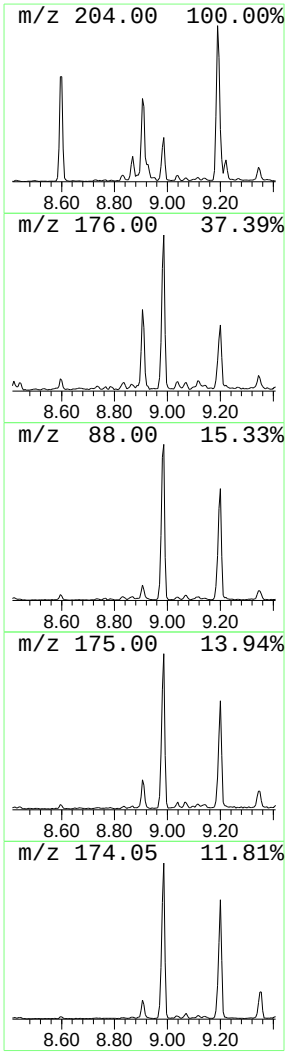
Peak Number 9 Unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.911	5.01 ppm	405057	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	90
2	2,5,5,8a-Tetramethyl-6,7,8,8a-te...	204	C14H20O	124957-09-1	43
3	2-Methyl-5-nitroindole-3-carboxa...	204	C10H8N2O3	003558-17-6	38
4	[1,1'-Biphenyl-3-ol], 6-chloro-	204	C12H9ClO	021345-13-1	37
5	Quinoline, 8-methoxy-5-nitro-	204	C10H8N2O3	1000298-88-7	37





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Sample : jd87833-4
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ALS Vial : 21 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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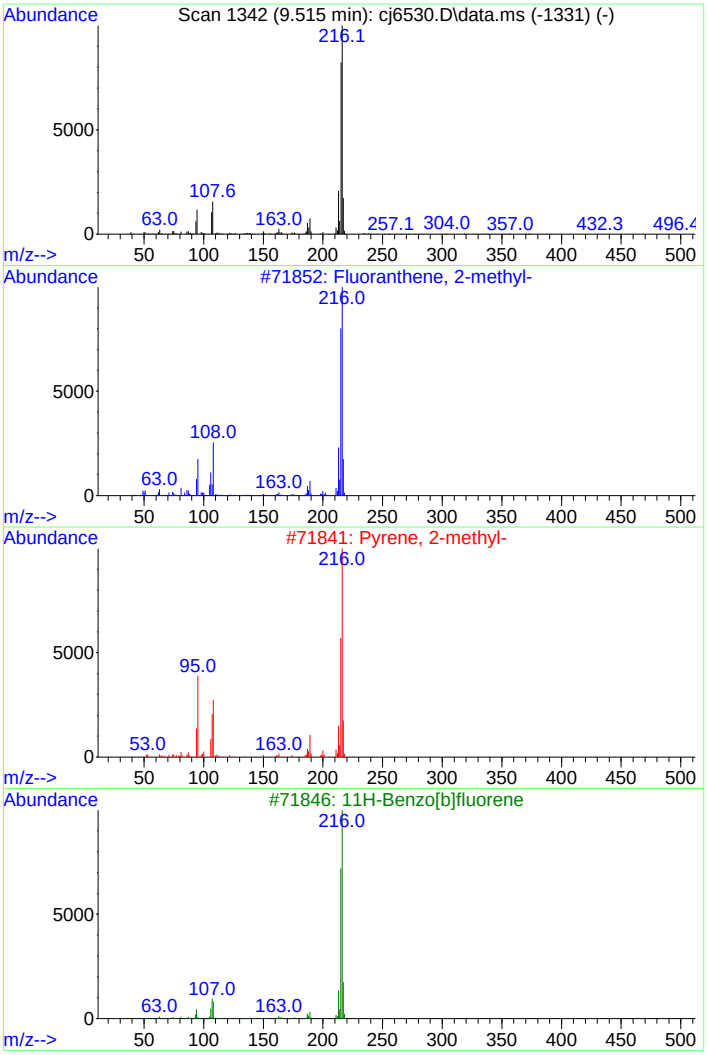
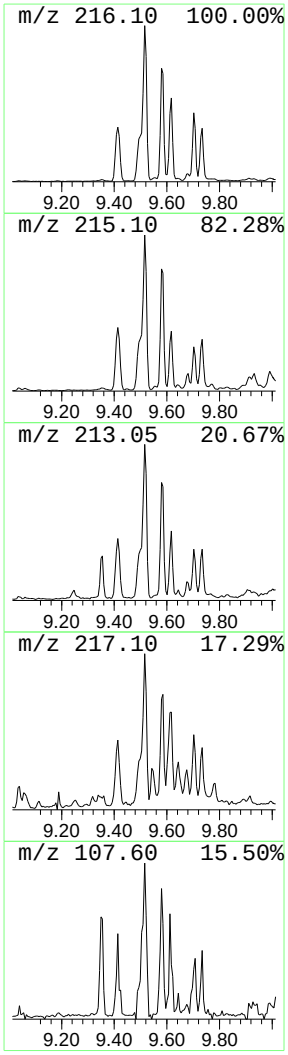
Peak Number 10 Fluoranthene, methyl Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.515	8.10 ppm	1359410	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	95
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90





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ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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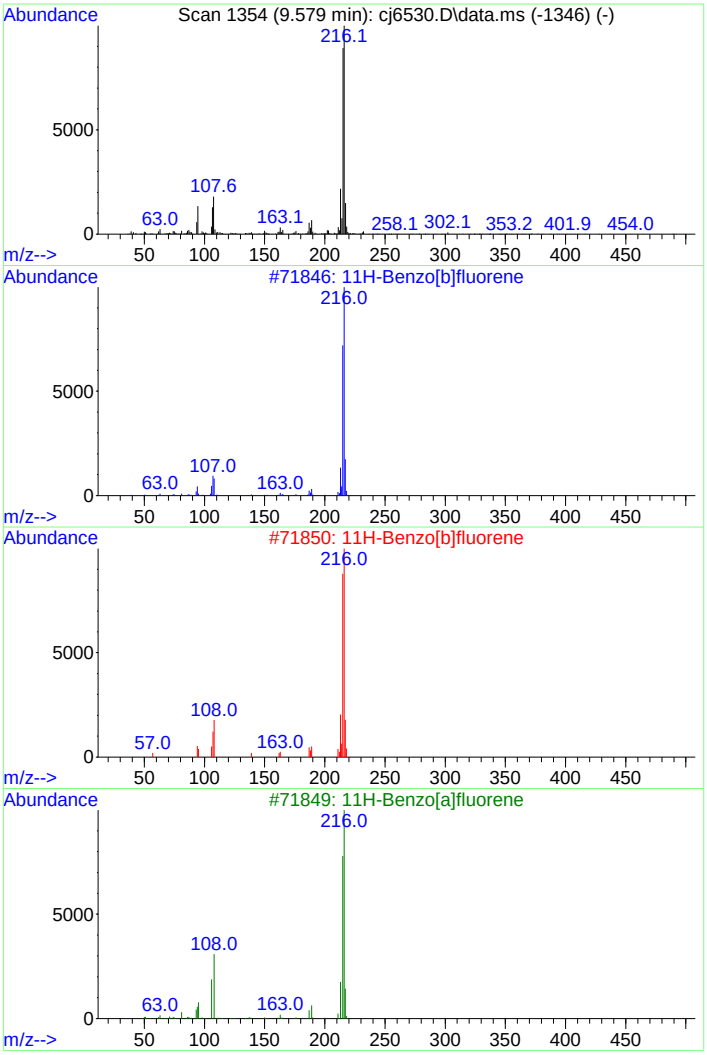
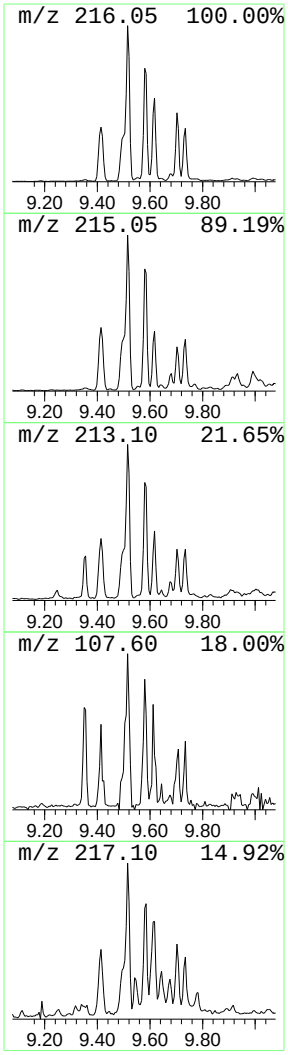
Peak Number 11 Unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.579	5.01 ppm	840613	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81





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Sample : jd87833-4
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ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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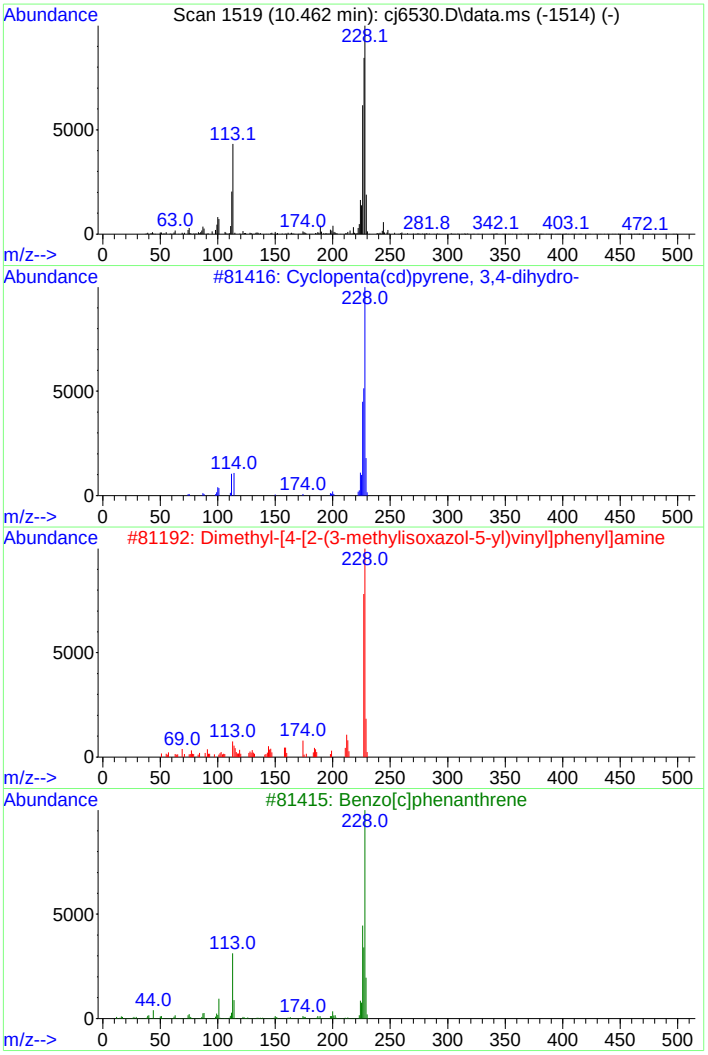
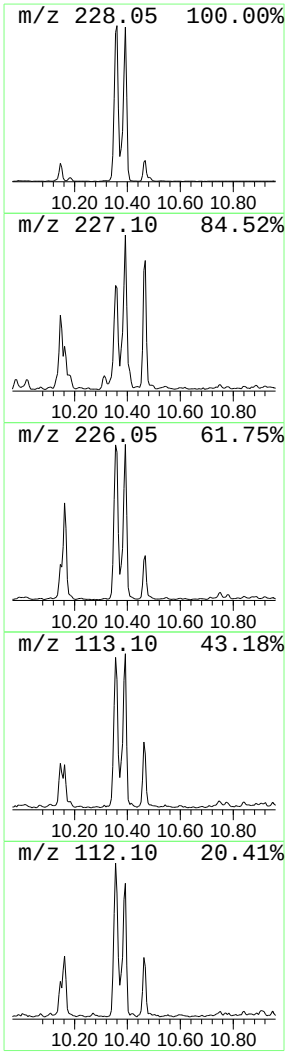
Peak Number 12 Unknown Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.462	4.18 ppm	701122	Chrysene-d12a	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	50
2	Dimethyl-[4-[2-(3-methylisoxazol...	228	C14H16N2O	1000306-39-6	43
3	Benzo[c]phenanthrene	228	C18H12	000195-19-7	38
4	1,3,5-Triazine-2(1H)-thione, 4-(...	227	C9H17N5S	023613-02-7	38
5	Purine-6(1H)-thione, 3,7-dimethy...	228	C7H8N4Se	023663-58-3	32





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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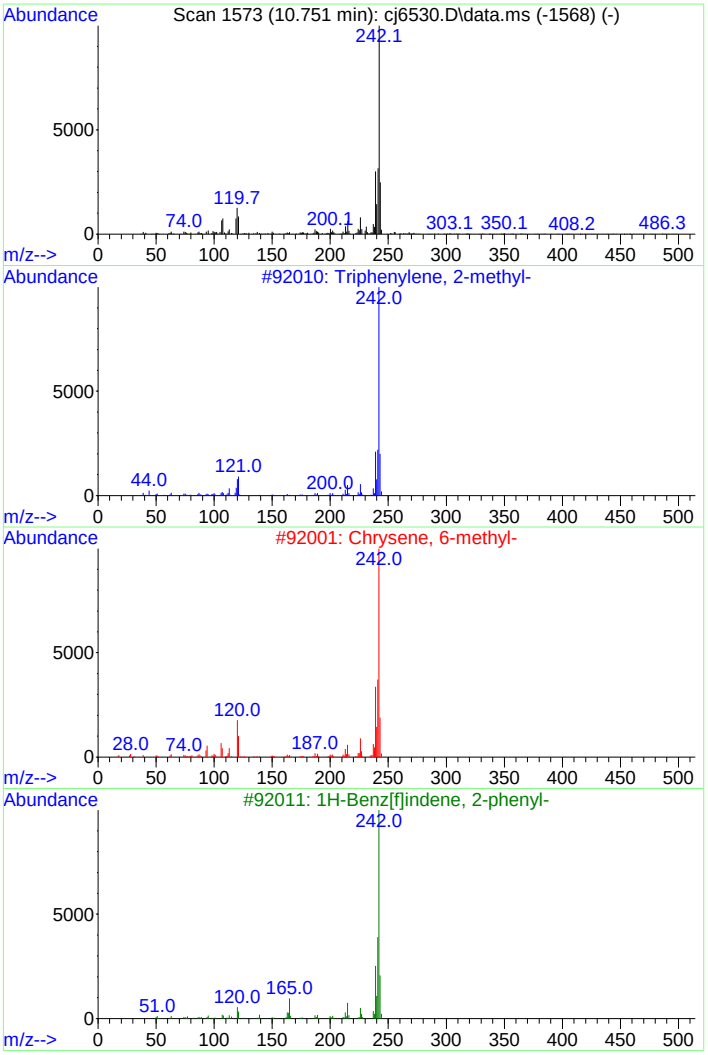
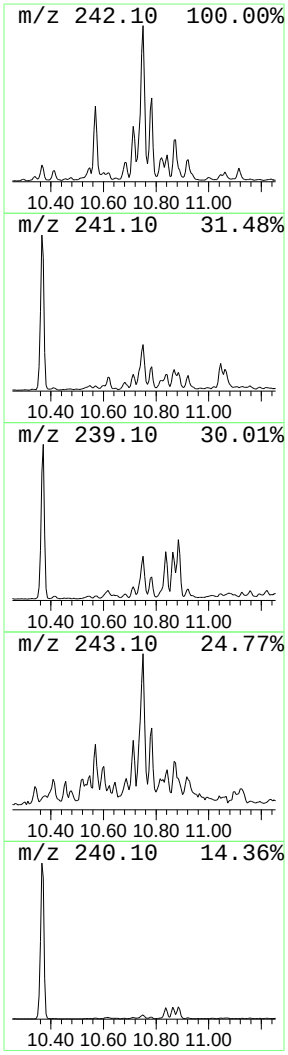
Peak Number 13 Unknown Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.751	4.07 ppm	682791	Chrysene-d12a	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	96
2	Chrysene, 6-methyl-	242	C19H14	001705-85-7	96
3	1H-Benz[f]indene, 2-phenyl-	242	C19H14	1000305-22-4	95
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	94
5	Chrysene, 2-methyl-	242	C19H14	003351-32-4	94





Library Search Compound Report

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Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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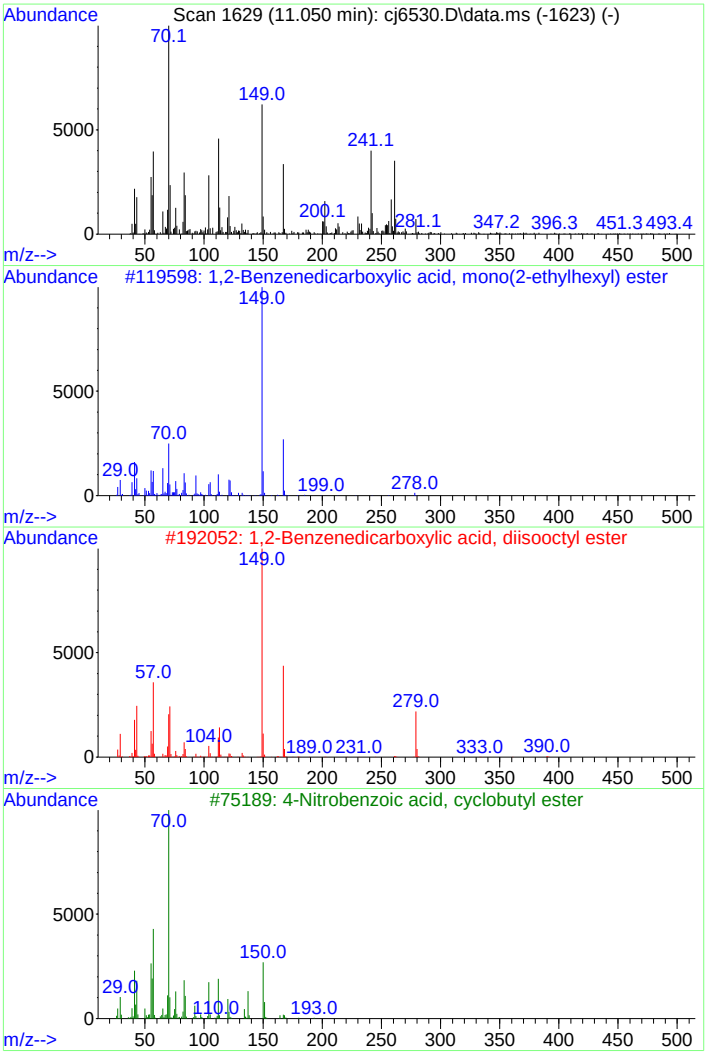
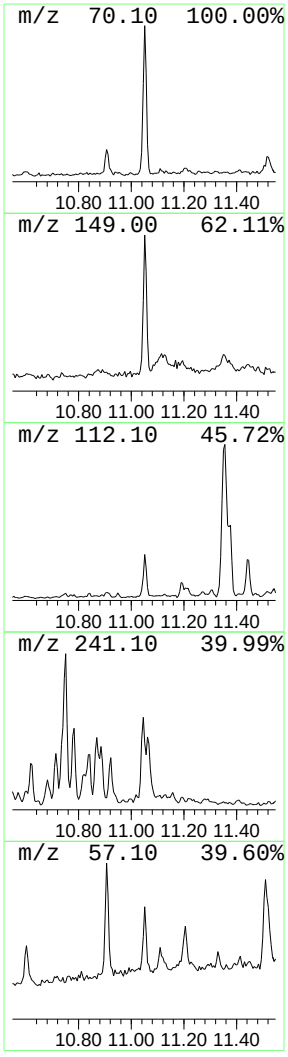
Peak Number 14 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.050	8.69 ppm	612214	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, mo...	278	C16H22O4	004376-20-9	32
2	1,2-Benzenedicarboxylic acid, di...	390	C24H38O4	027554-26-3	25
3	4-Nitrobenzoic acid, cyclobutyl ...	221	C11H11NO4	070335-00-1	22
4	Cyclohexaneamine, N-but-2-enylid...	167	C10H17NO	068048-01-1	22
5	Acetic acid, [4-(4-methyl-1-pipe...	262	C14H18N2O3	346699-90-9	18





Library Search Compound Report

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Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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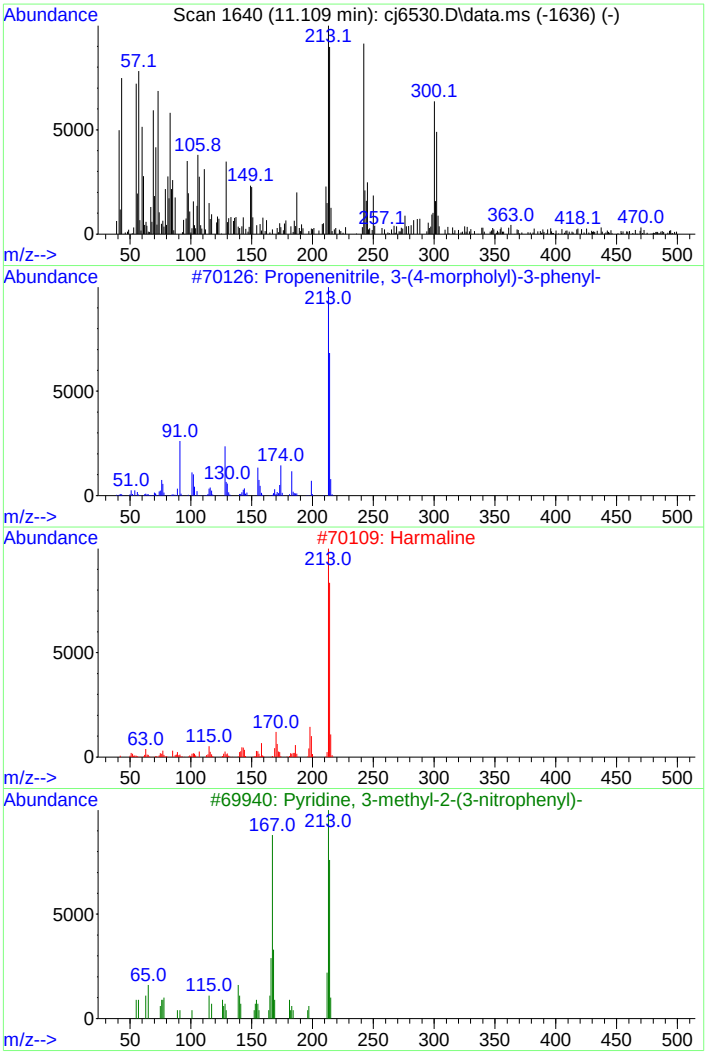
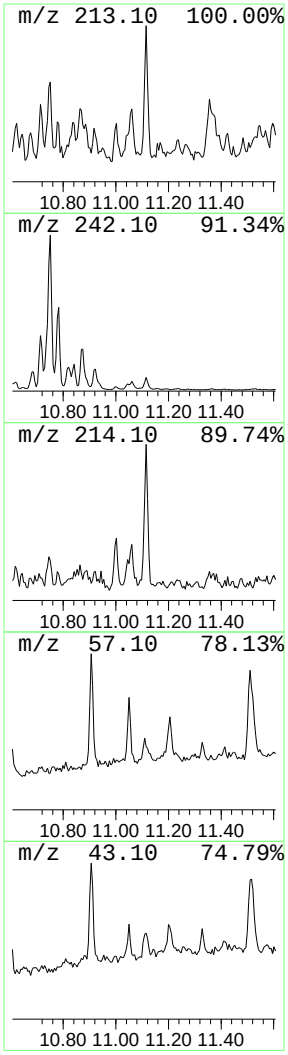
Peak Number 15 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.109	7.37 ppm	519073	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propenenitrile, 3-(4-morpholyl)-...	214	C13H14N2O	020842-95-9	30
2	Harmaline	214	C13H14N2O	000304-21-2	27
3	Pyridine, 3-methyl-2-(3-nitrophe...	214	C12H10N2O2	113120-14-2	27
4	4'-Bromo-flavone	300	C15H9BrO2	020525-20-6	15
5	Thiazolo[4,5-d]pyrimidin-7(4H)-one	213	C7H7N3OS2	1000153-89-3	14





Library Search Compound Report

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Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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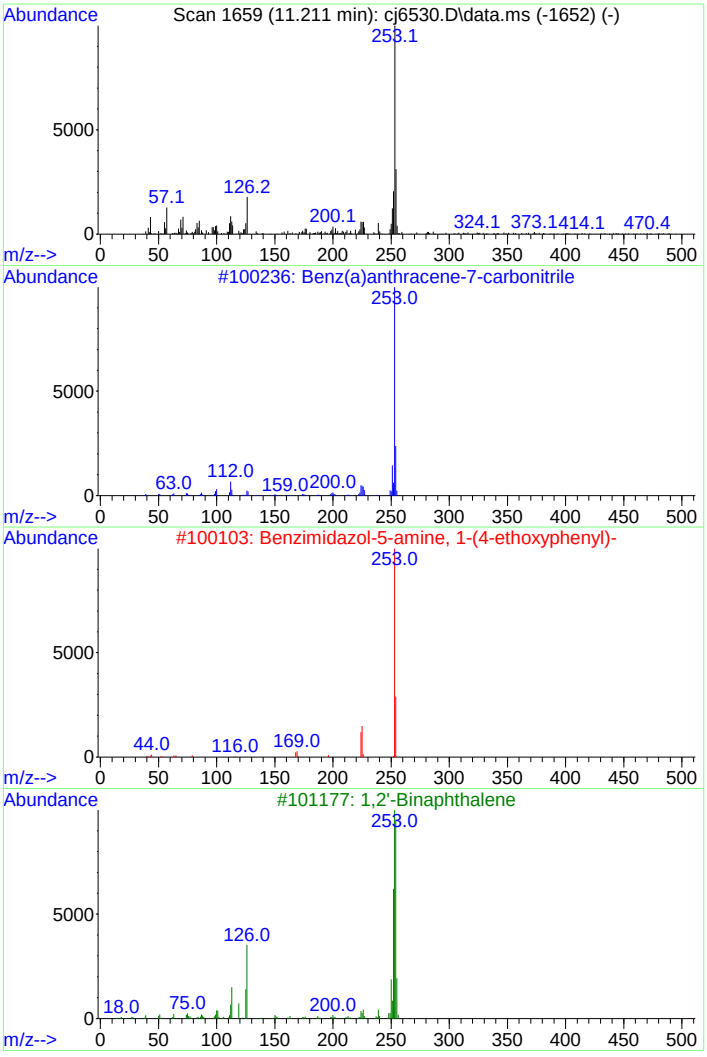
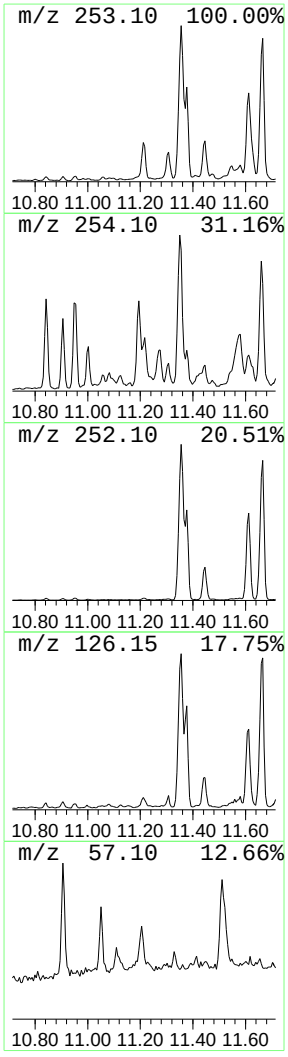
Peak Number 16 Unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.211	11.36 ppm	800337	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	92
2	Benzimidazol-5-amine, 1-(4-ethox...	253	C15H15N3O	007104-62-3	50
3	1,2'-Binaphthalene	254	C20H14	004325-74-0	47
4	Imidazole, 2-iodo-5-methyl-4-nitro-	253	C4H4IN3O2	149510-86-1	38
5	4,6'-Biazulenyl	254	C20H14	094154-49-1	38





Library Search Compound Report

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Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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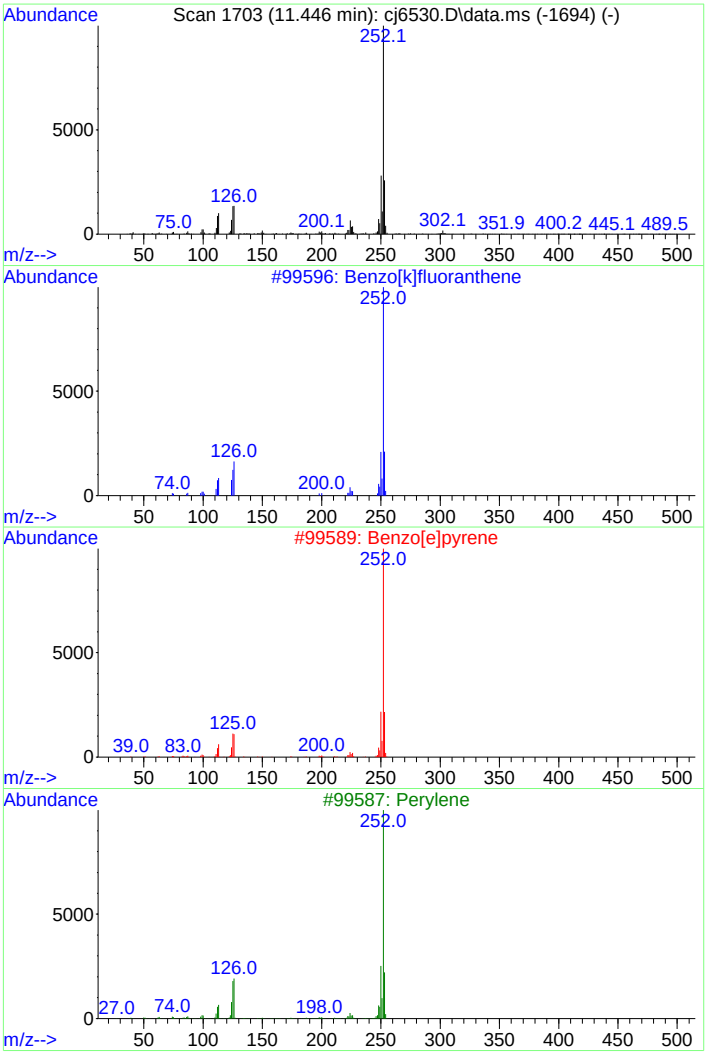
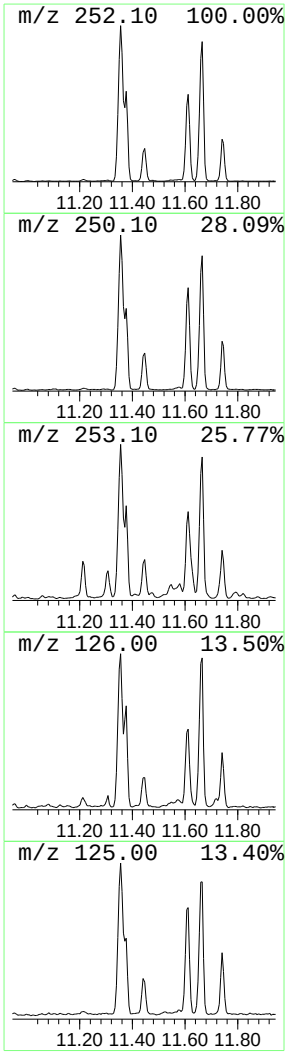
Peak Number 17 Unknown PHA Substance Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.446	12.11 ppm	852877	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
2	Benzo[e]pyrene	252	C20H12	000192-97-2	98
3	Perylene	252	C20H12	000198-55-0	94
4	Benzo[a]pyrene	252	C20H12	000050-32-8	94
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94





Library Search Compound Report

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Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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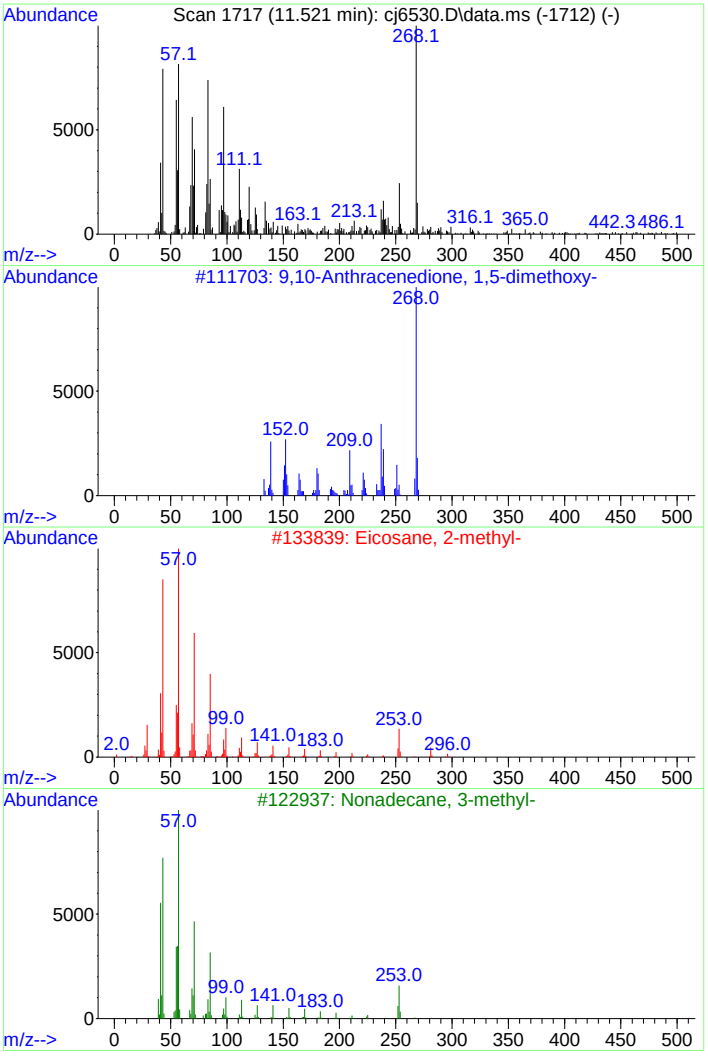
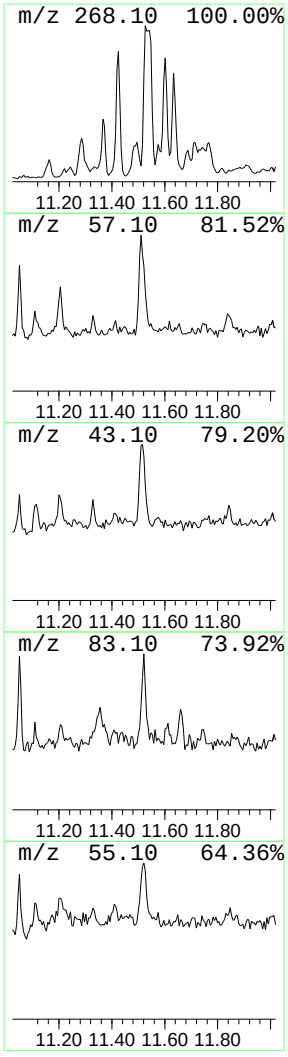
Peak Number 18 Unknown Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.521	5.52 ppm	389122	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione, 1,5-dimeth...	268	C16H12O4	006448-90-4	64
2	Eicosane, 2-methyl-	296	C21H44	001560-84-5	25
3	Nonadecane, 3-methyl-	282	C20H42	006418-45-7	25
4	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	25
5	3-Methylcholanthrene	268	C21H16	000056-49-5	18





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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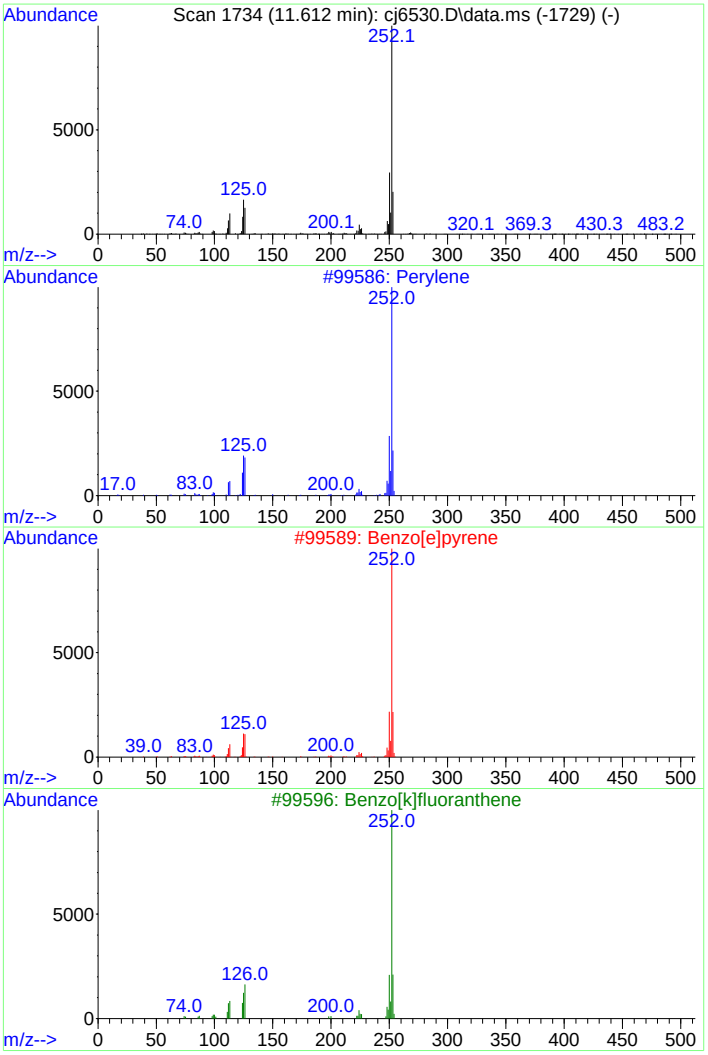
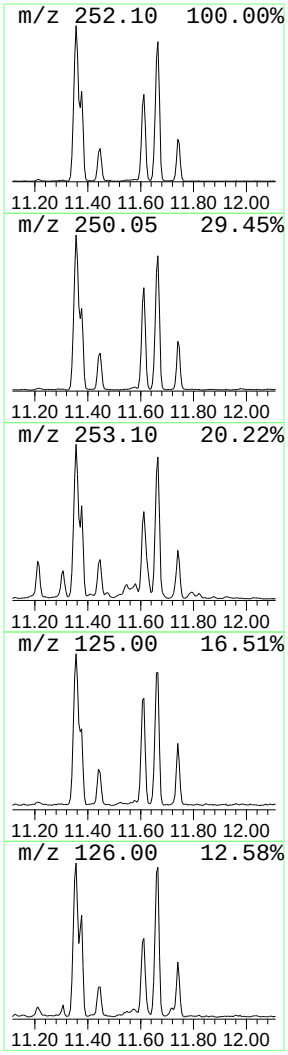
Peak Number 19 Unknown PHA Substance Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.612	24.26 ppm	1709060	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	98
2	Benzo[e]pyrene	252	C20H12	000192-97-2	98
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
4	Perylene	252	C20H12	000198-55-0	94
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Library Search Compound Report

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Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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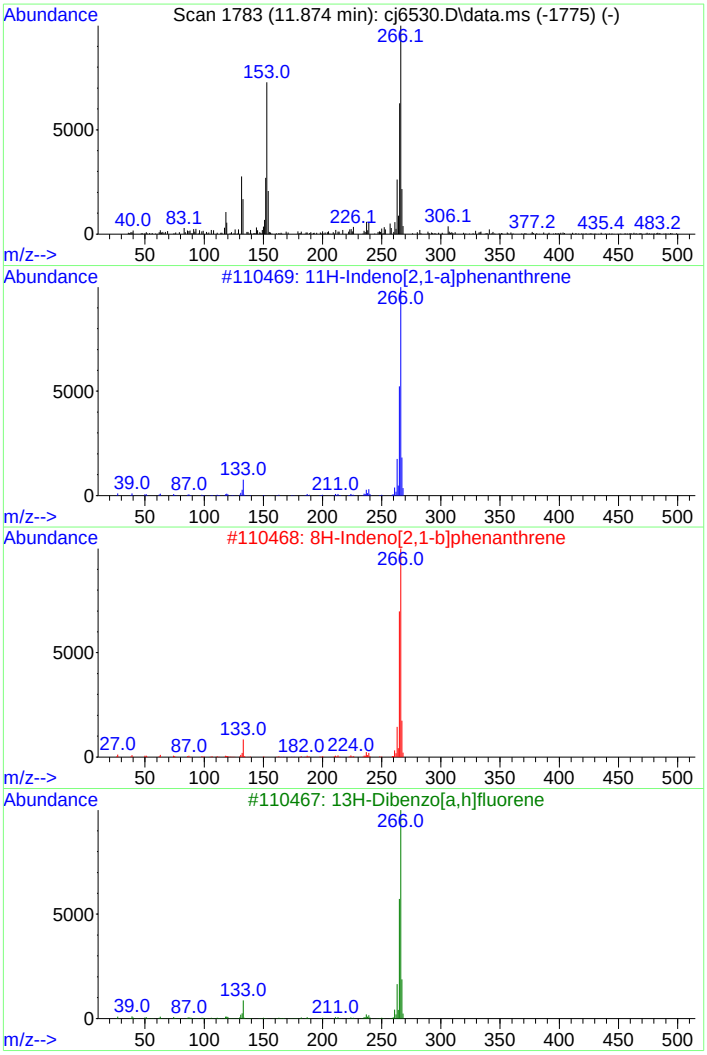
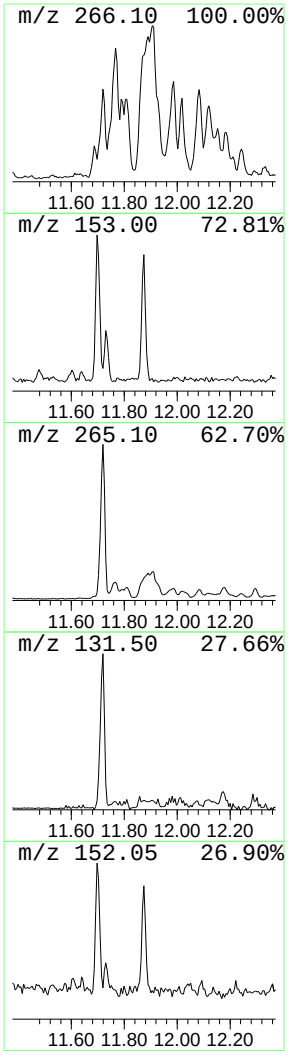
Peak Number 20 H-Indeno phenanthrene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.874	5.63 ppm	396307	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	89
2	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	55
3	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	50
4	Perylene, 3-methyl-	266	C21H14	024471-47-4	46
5	Thiazole, 4-phenyl-2-(4-tolylami...	266	C16H14N2S	016098-04-7	43





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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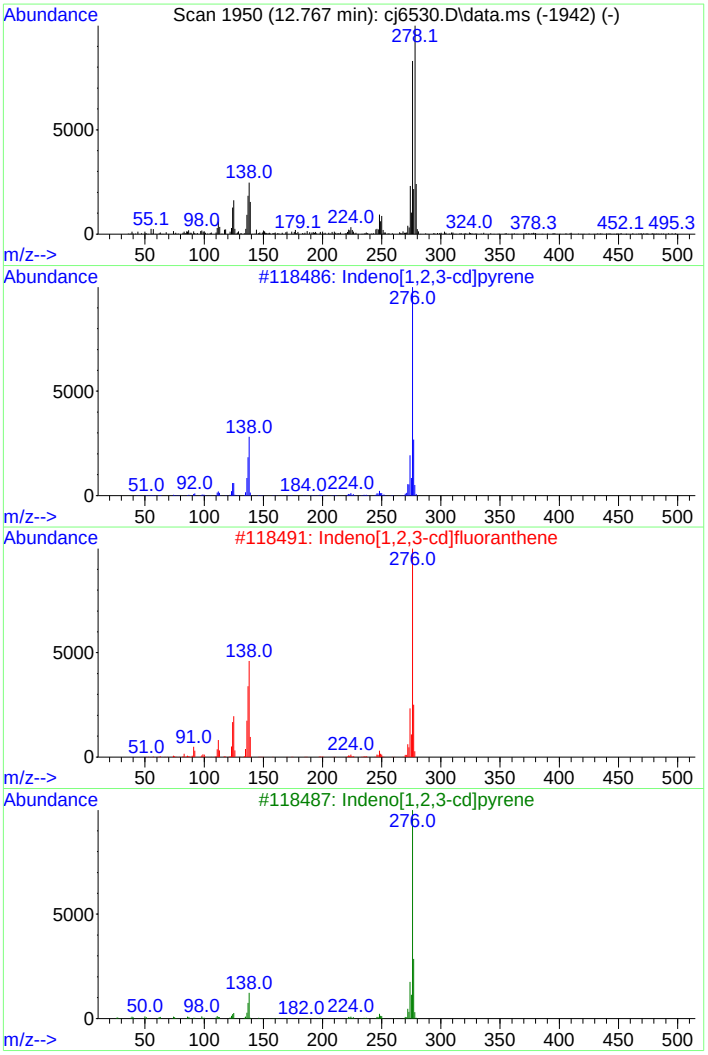
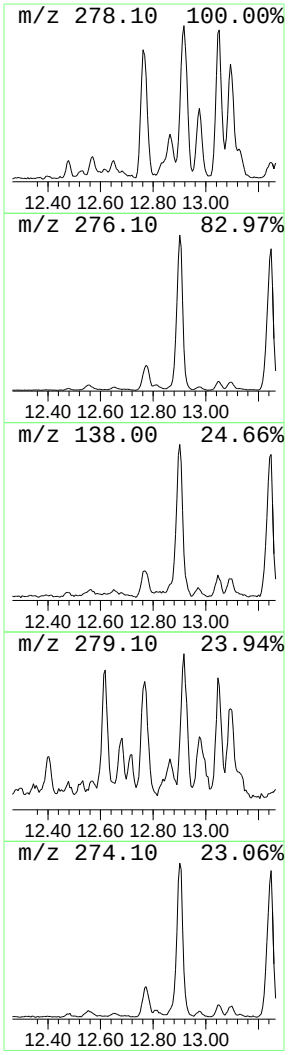
Peak Number 21 Unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.767	9.93 ppm	699742	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	90
2	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	90
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	87
4	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	86
5	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	50





Library Search Compound Report

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Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
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Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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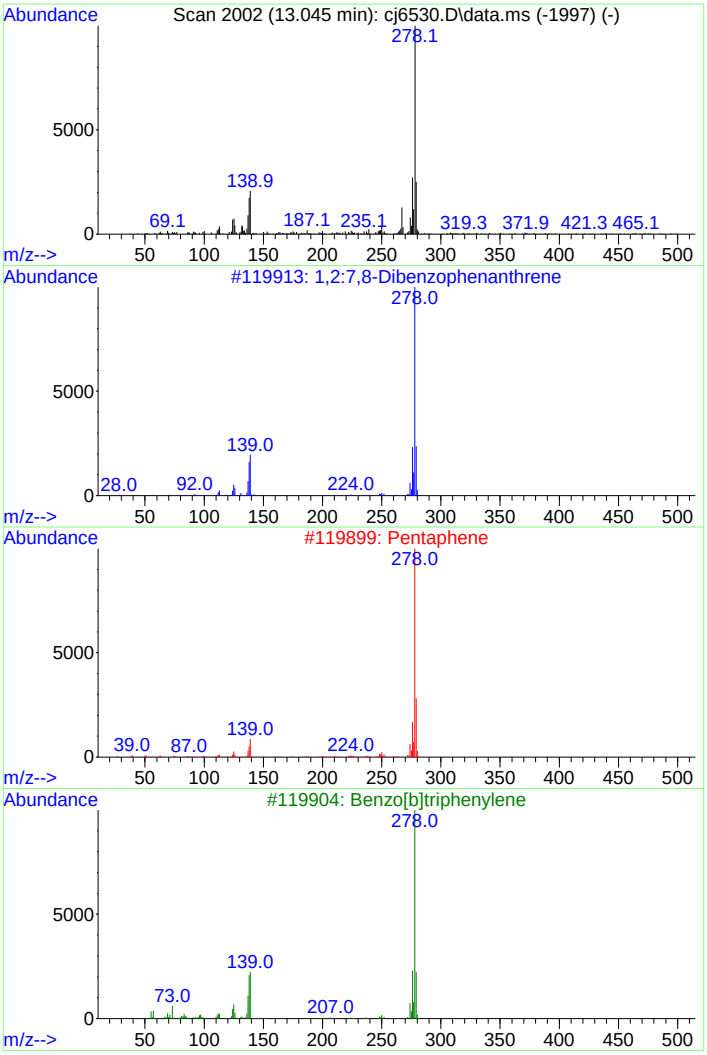
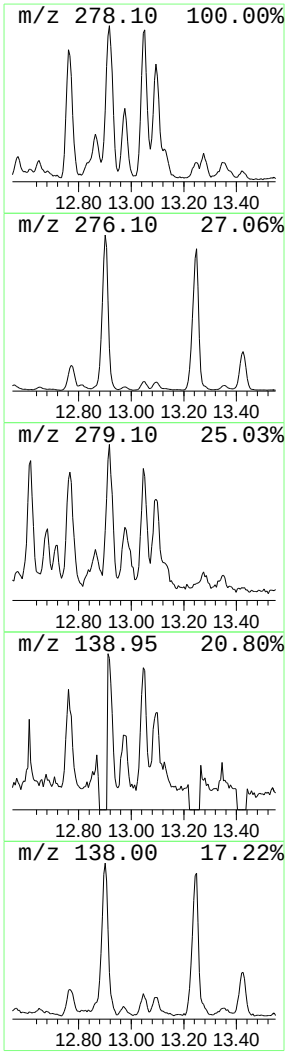
Peak Number 22 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.046	5.60 ppm	394278	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	98
2	Pentaphene	278	C22H14	000222-93-5	97
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
4	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
5	Benzo[b]chrysene	278	C22H14	000214-17-5	96





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Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
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Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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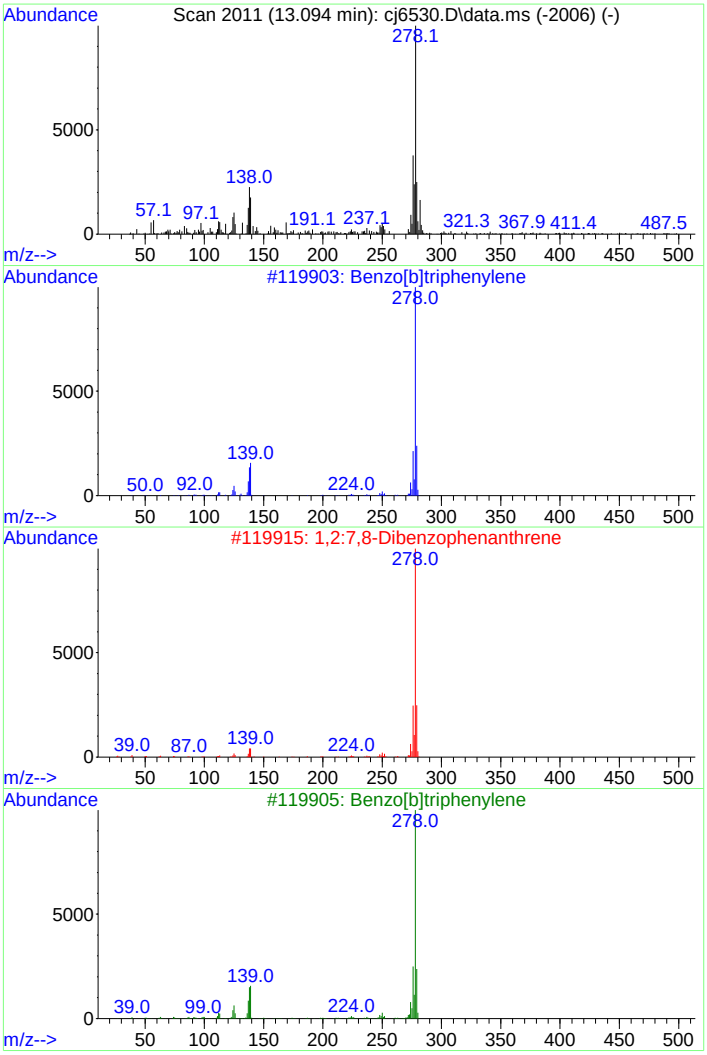
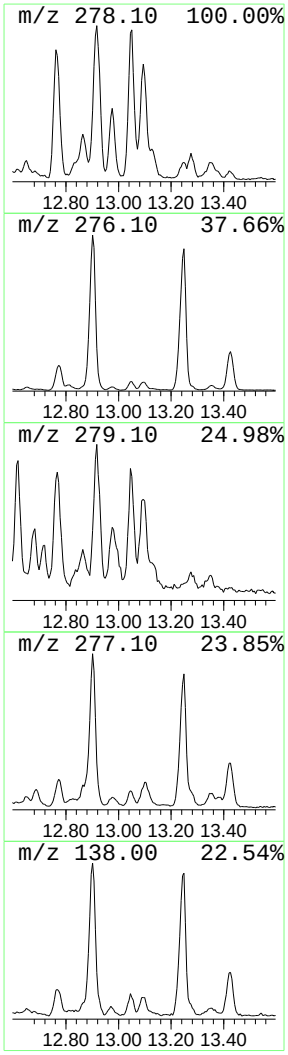
Peak Number 23 Unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.094	6.06 ppm	426840	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	86
2	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	86
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	83
4	Benzo[b]chrysene	278	C22H14	000214-17-5	83
5	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	70





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

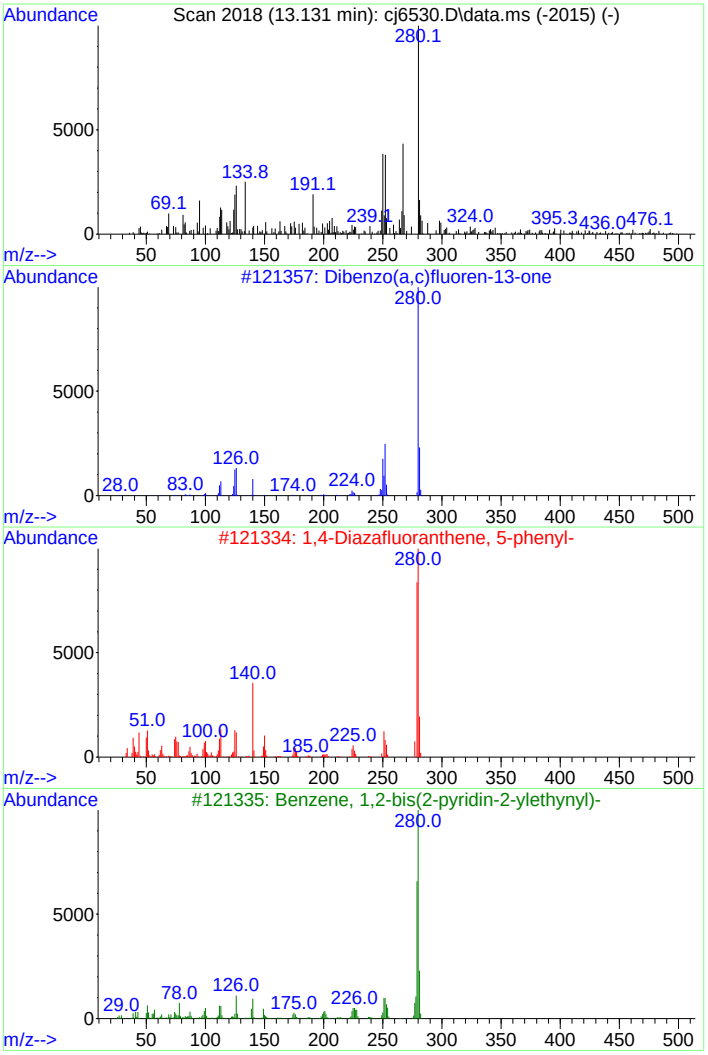
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

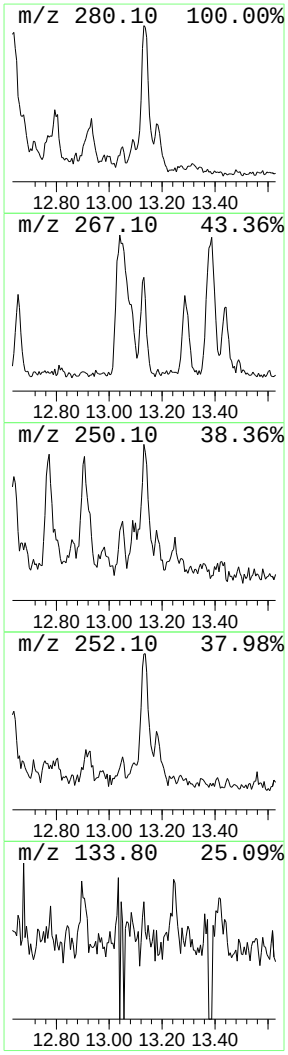
****

Peak Number 24 Unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.131	4.58 ppm	322556	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo(a,c)fluoren-13-one	280	C21H12O	063041-47-4	49
2	1,4-Diazafluoranthene, 5-phenyl-	280	C20H12N2	1000303-05-1	38
3	Benzene, 1,2-bis(2-pyridin-2-yle...	280	C20H12N2	350587-04-1	38
4	9H-Thioxanthen-9-one, 2-(trifluo...	280	C14H7F3OS	001693-28-3	27
5	4-(2-Oxo-1,2-dihydro-indol-3-yli...	308	C18H16N2O3	1000295-11-2	27





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

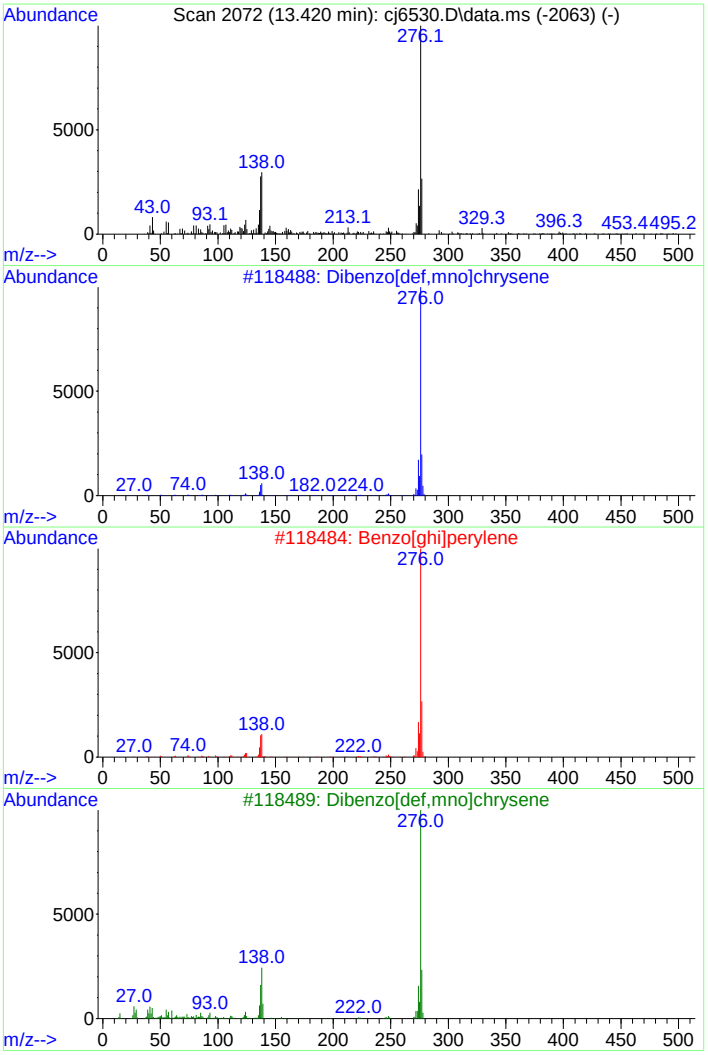
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

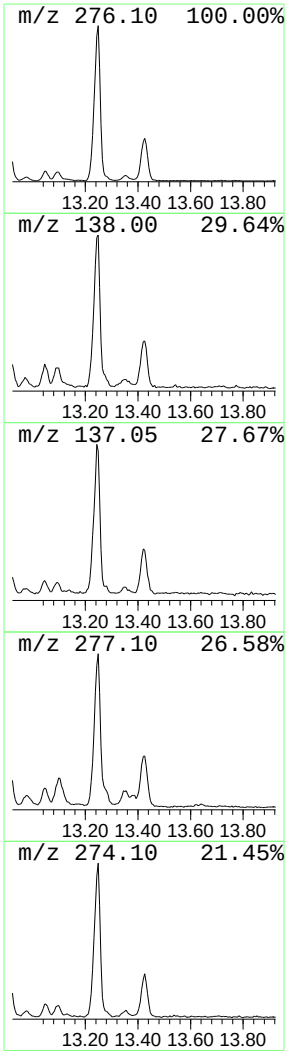
****

Peak Number 25 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.420	10.47 ppm	737874	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	97
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	93
3	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	93
4	Benzo[ghi]perylene	276	C22H12	000191-24-2	93
5	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	89





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6530.D
Acq On : 09 May 2024 09:45 pm
Operator : rocquans
Sample : jd87833-4
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.247	11.6	ppm	643523	2	4.664	2221530	40.0
Unknown	4.482	5.4	ppm	297554	2	4.664	2221530	40.0
Unknown	4.755	4.7	ppm	262702	2	4.664	2221530	40.0
Phenanthrene, m...	8.323	6.1	ppm	490956	8	7.868	3234670	40.0
Phenanthrene, m...	8.344	5.3	ppm	426785	8	7.868	3234670	40.0
4H-Cyclopenta[d...	8.419	17.2	ppm	1387930	8	7.868	3234670	40.0
Unknown	8.595	7.7	ppm	625350	8	7.868	3234670	40.0
Anthracene, dim...	8.831	5.0	ppm	401276	8	7.868	3234670	40.0
Unknown	8.911	5.0	ppm	405057	8	7.868	3234670	40.0
Fluoranthene, m...	9.515	8.1	ppm	1359410	9	10.366	6709830	40.0
Unknown	9.579	5.0	ppm	840613	9	10.366	6709830	40.0
Unknown	10.462	4.2	ppm	701122	10	10.366	6709830	40.0
Unknown	10.751	4.1	ppm	682791	10	10.366	6709830	40.0
Unknown	11.050	8.7	ppm	612214	11	11.719	2817730	40.0
Unknown	11.109	7.4	ppm	519073	11	11.719	2817730	40.0
Unknown	11.211	11.4	ppm	800337	11	11.719	2817730	40.0
Unknown PHA Sub...	11.446	12.1	ppm	852877	11	11.719	2817730	40.0
Unknown	11.521	5.5	ppm	389122	11	11.719	2817730	40.0
Unknown PHA Sub...	11.612	24.3	ppm	1709060	11	11.719	2817730	40.0
H-Indeno phenan...	11.874	5.6	ppm	396307	11	11.719	2817730	40.0
Unknown	12.767	9.9	ppm	699742	11	11.719	2817730	40.0
Unknown	13.046	5.6	ppm	394278	11	11.719	2817730	40.0
Unknown	13.094	6.1	ppm	426840	11	11.719	2817730	40.0
Unknown	13.131	4.6	ppm	322556	11	11.719	2817730	40.0
Unknown	13.420	10.5	ppm	737874	11	11.719	2817730	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jacky Takeuchi 05/10/24 22:07

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5 Inst : GCMSCJ
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 10 19:09:04 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

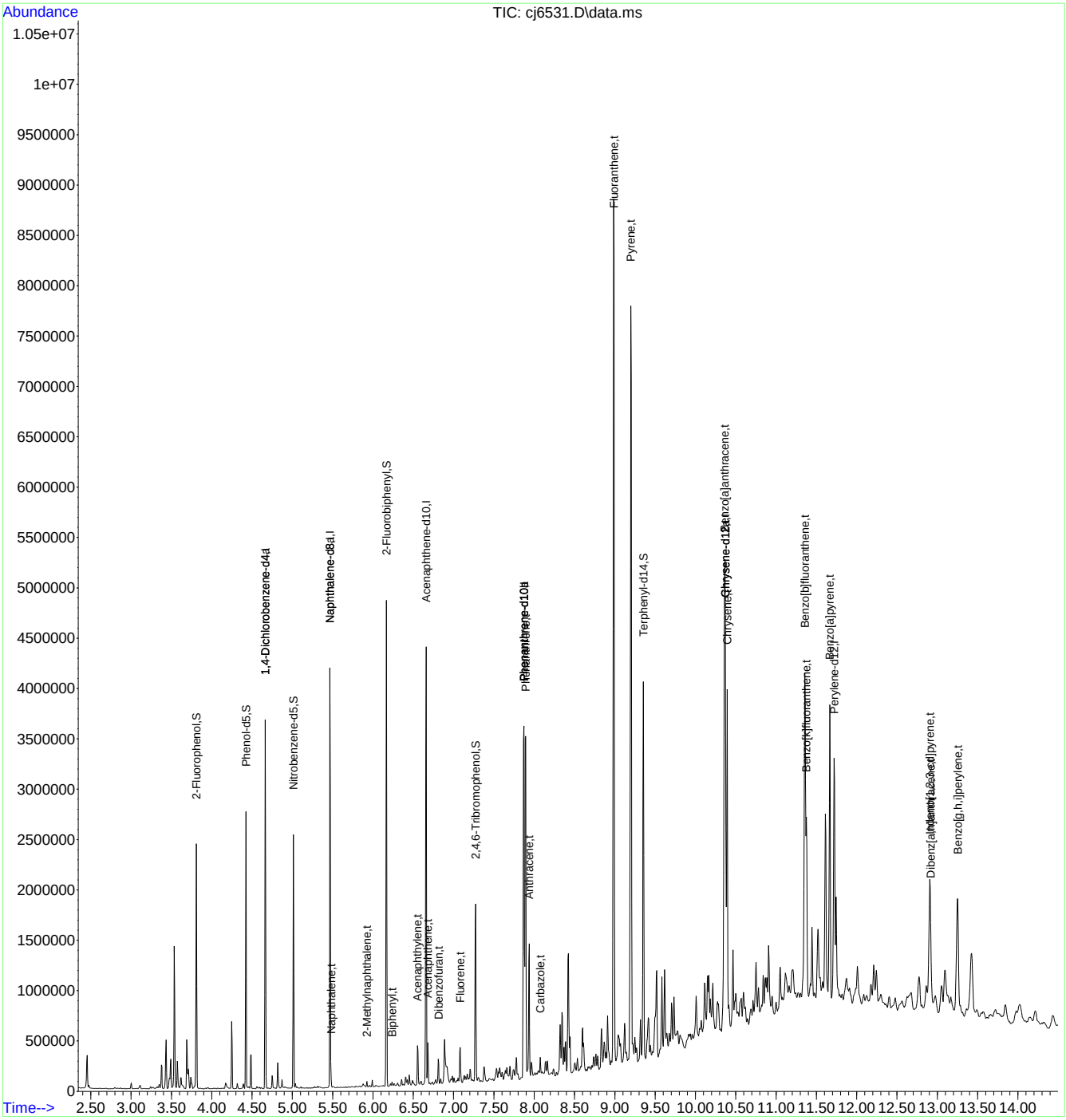
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.664	152	353722	40.00	ppm	0.00
24) Naphthalene-d8	5.466	136	1237394	40.00	ppm	0.00
46) Acenaphthene-d10	6.659	164	691359	40.00	ppm	0.00
69) Phenanthrene-d10	7.873	188	1218173	40.00	ppm	0.00
84) Chrysene-d12	10.371	240	857333	40.00	ppm	0.00
93) Perylene-d12	11.719	264	895253	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.664	152	353722	40.00	ppm	0.00
105) Phenanthrene-d10a	7.873	188	1218173	40.00	ppm	0.00
107) Naphthalene-d8a	5.466	136	1237394	40.00	ppm	0.00
109) Phenanthrene-d10b	7.873	188	1218173	40.00	ppm	0.00
112) Chrysene-d12a	10.371	240	857333	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.808	112	383737	37.74	ppm	0.01
Spiked Amount 50.000			Recovery =	75.48%		
8) Phenol-d5	4.423	99	527551	40.23	ppm	0.00
Spiked Amount 50.000			Recovery =	80.46%		
25) Nitrobenzene-d5	5.011	82	502748	39.68	ppm	0.00
Spiked Amount 50.000			Recovery =	79.36%		
51) 2-Fluorobiphenyl	6.167	172	945762	43.47	ppm	0.00
Spiked Amount 50.000			Recovery =	86.94%		
74) 2,4,6-Tribromophenol	7.274	330	137316	51.41	ppm	0.00
Spiked Amount 50.000			Recovery =	102.82%		
87) Terphenyl-d14	9.355	244	977017	46.12	ppm	0.00
Spiked Amount 50.000			Recovery =	92.24%		
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
38) Naphthalene	5.482	128	23096	0.7792	ppm	98
44) 2-Methylnaphthalene	5.926	141	9562	0.5441	ppm	92
53) Biphenyl	6.236	154	8453	0.3559	ppm	95
56) Acenaphthylene	6.552	152	140155	5.2268	ppm	98
59) Acenaphthene	6.680	153	76576	4.0157	ppm	92
62) Dibenzofuran	6.814	168	67035	2.5332	ppm	93
66) Fluorene	7.081	166	94353	4.5135	ppm	99
78) Phenanthrene	7.894	178	1142769	38.8171	ppm	99
79) Anthracene	7.937	178	456273	15.4783	ppm	97
80) Carbazole	8.076	167	54148	1.9713	ppm	99
82) Fluoranthene	8.991	202	3263743	102.4018	ppm	99
86) Pyrene	9.200	202	2967693	101.7845	ppm	98
89) Benzo[a]anthracene	10.360	228	1389567	50.4098	ppm	98
91) Chrysene	10.392	228	1067306	41.9661	ppm	97
95) Benzo[b]fluoranthene	11.355	252	1502352m	55.5513	ppm	
96) Benzo[k]fluoranthene	11.376	252	483090m	19.8513	ppm	
97) Benzo[a]pyrene	11.665	252	1141348	50.9803	ppm	98
98) Indeno[1,2,3-cd]pyrene	12.906	276	719017	26.5662	ppm	98
100) Dibenz[a,h]anthracene	12.917	278	169208	7.8243	ppm	94
102) Benzo[g,h,i]perylene	13.254	276	688805	32.7494	ppm	97

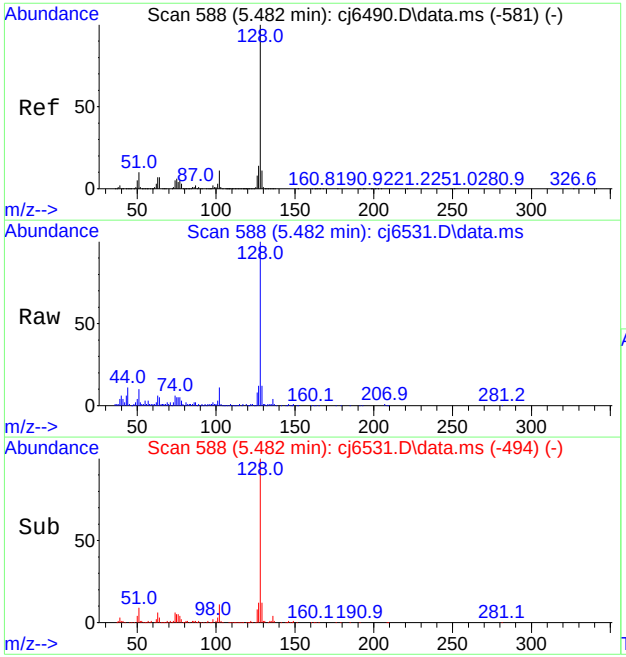
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5 Inst : GCMSCJ
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 10 19:09:04 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

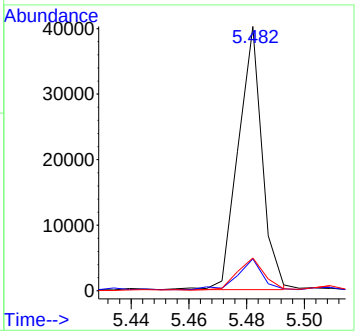


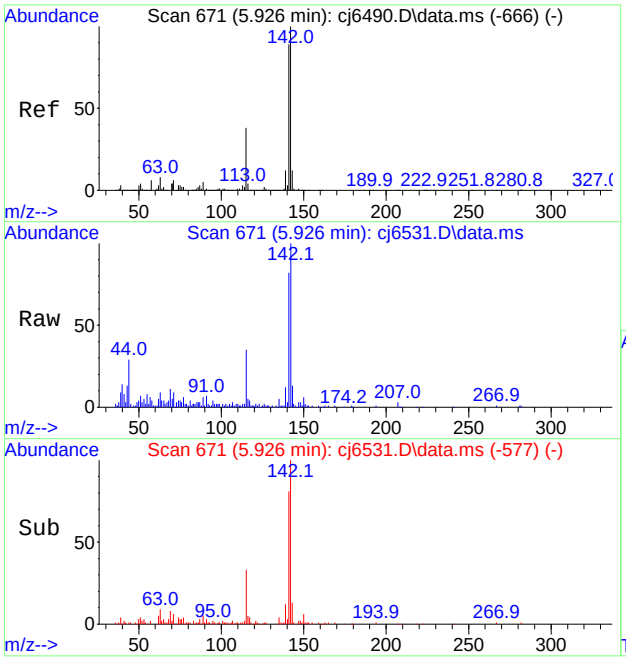


#38
Naphthalene
Concen: 0.7792 ppm
RT: 5.482 min Scan# 588
Delta R.T. 0.000 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:128 Resp: 23096

Ion	Ratio	Lower	Upper
128	100		
129	11.3	0.0	41.4
127	12.1	0.0	43.3

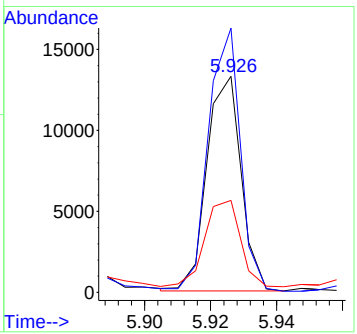


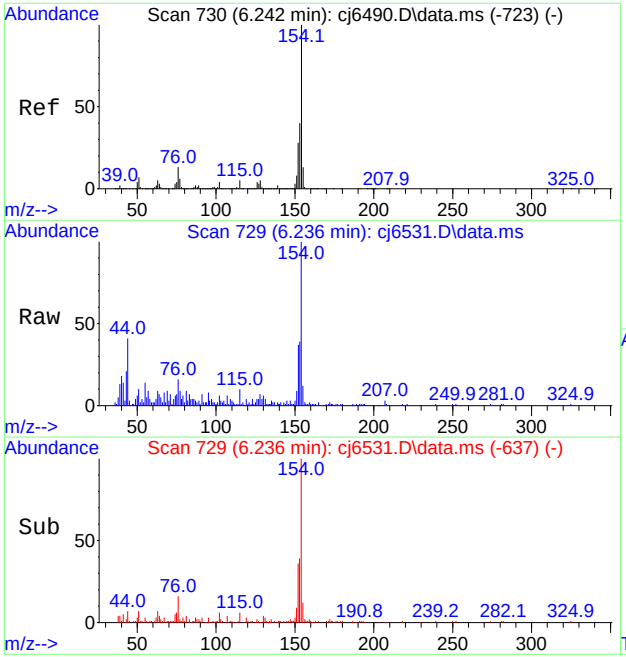


#44
2-Methylnaphthalene
Concen: 0.5441 ppm
RT: 5.926 min Scan# 671
Delta R.T. 0.000 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:141 Resp: 9562

Ion	Ratio	Lower	Upper
141	100		
142	122.7	82.7	142.7
115	40.3	12.4	72.4

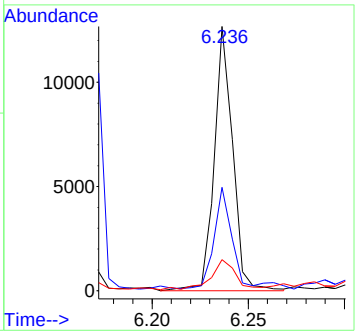


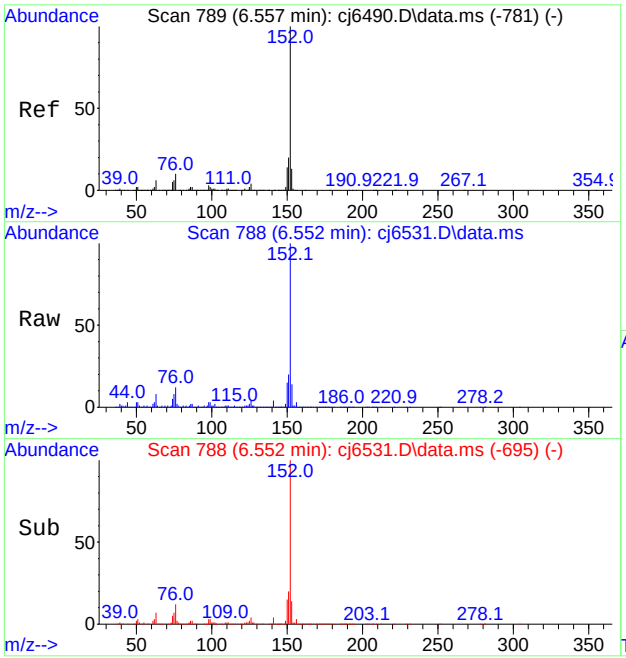


#53
Biphenyl
Concen: 0.3559 ppm
RT: 6.236 min Scan# 729
Delta R.T. -0.006 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:154 Resp: 8453

Ion	Ratio	Lower	Upper
154	100		
153	37.3	10.5	70.5
155	10.2	0.0	42.8

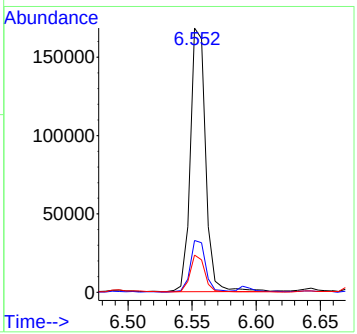


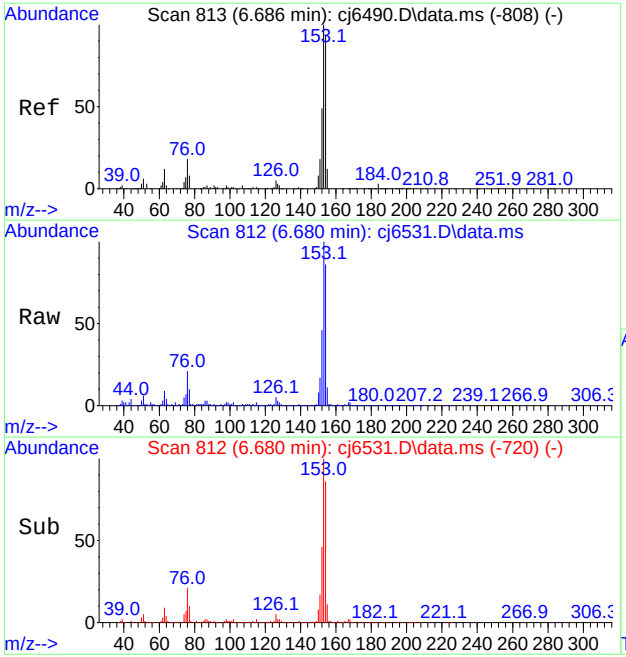


#56
Acenaphthylene
Concen: 5.2268 ppm
RT: 6.552 min Scan# 788
Delta R.T. -0.005 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:152 Resp: 140155

Ion	Ratio	Lower	Upper
152	100		
151	19.5	0.0	50.3
153	14.0	0.0	43.4

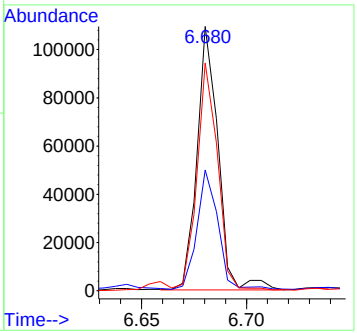


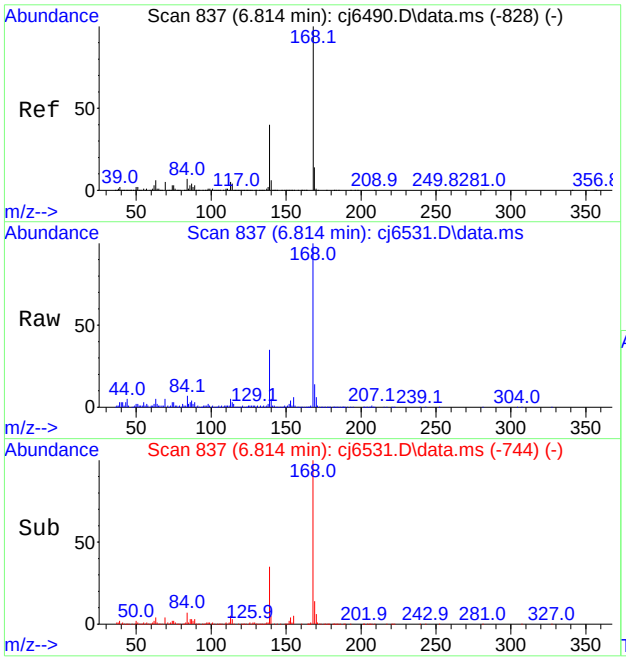


#59
Acenaphthene
Concen: 4.0157 ppm
RT: 6.680 min Scan# 812
Delta R.T. -0.006 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:153 Resp: 76576

Ion	Ratio	Lower	Upper
153	100		
152	45.1	18.8	78.8
154	84.5	62.9	122.9

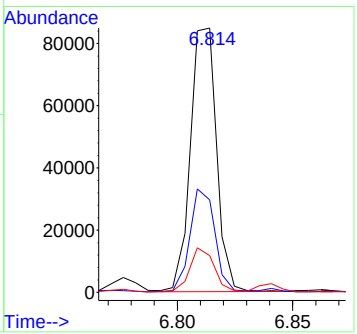


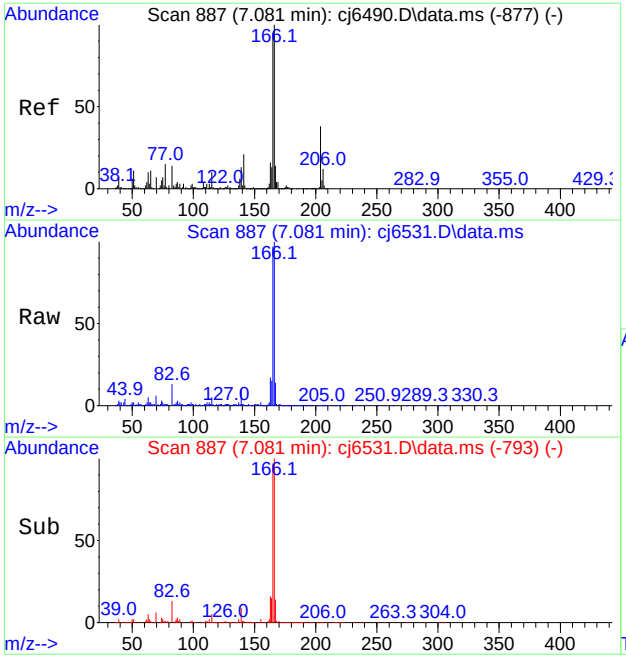


#62
Dibenzofuran
Concen: 2.5332 ppm
RT: 6.814 min Scan# 837
Delta R.T. 0.000 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:168 Resp: 67035

Ion	Ratio	Lower	Upper
168	100		
139	34.7	10.0	70.0
169	13.3	0.0	43.7

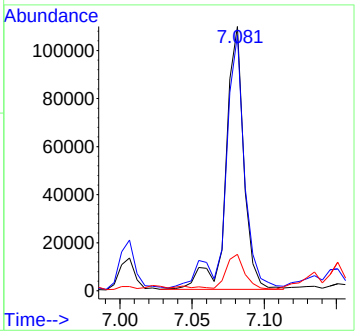


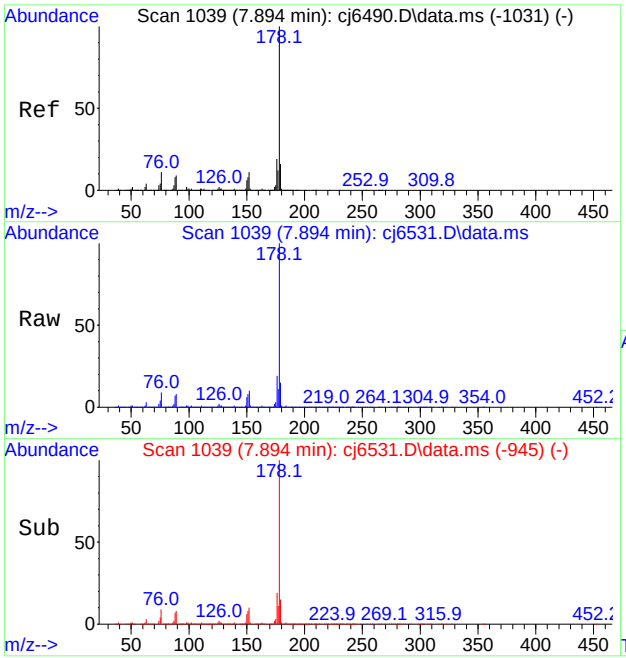


#66
Fluorene
Concen: 4.5135 ppm
RT: 7.081 min Scan# 887
Delta R.T. 0.000 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:166 Resp: 94353

Ion	Ratio	Lower	Upper
166	100		
165	96.0	65.4	125.4
167	12.2	0.0	43.8

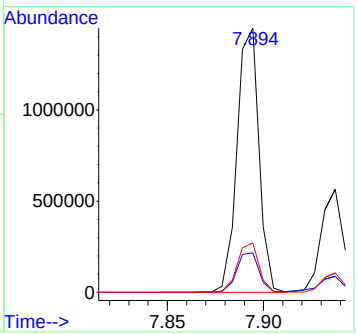


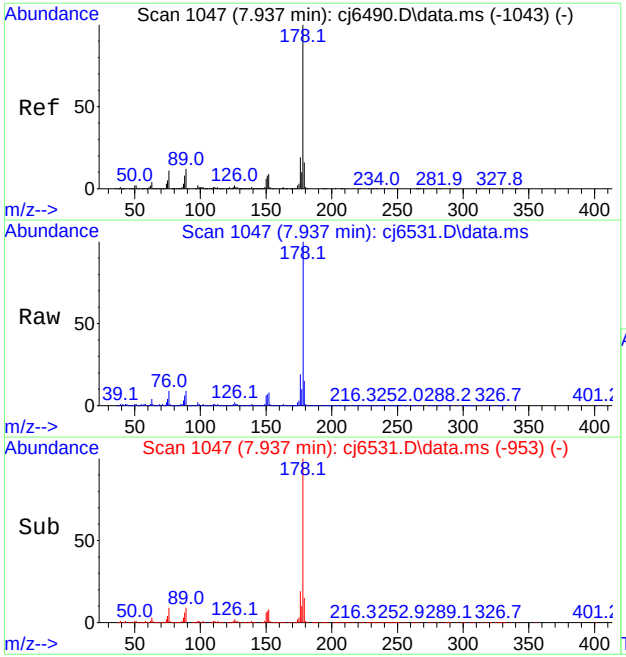


#78
Phenanthrene
Concen: 38.8171 ppm
RT: 7.894 min Scan# 1039
Delta R.T. 0.000 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:178 Resp: 1142769

Ion	Ratio	Lower	Upper
178	100		
179	14.8	0.0	45.5
176	18.7	0.0	49.2

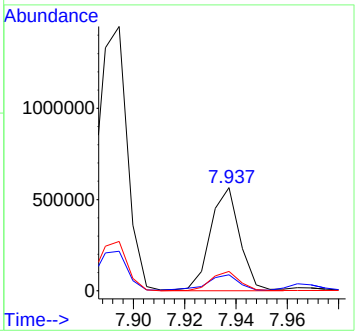


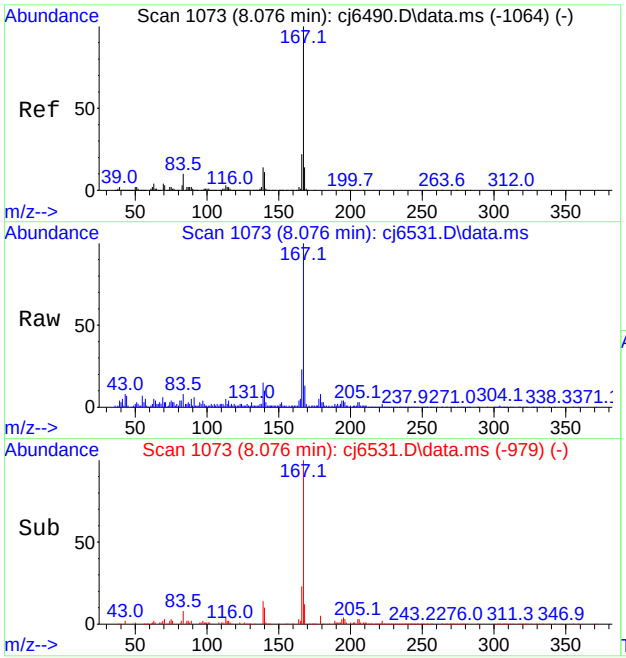


#79
Anthracene
Concen: 15.4783 ppm
RT: 7.937 min Scan# 1047
Delta R.T. 0.000 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:178 Resp: 456273

Ion	Ratio	Lower	Upper
178	100		
179	13.8	0.0	46.1
176	18.7	0.0	48.7

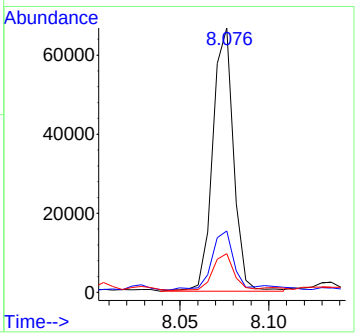


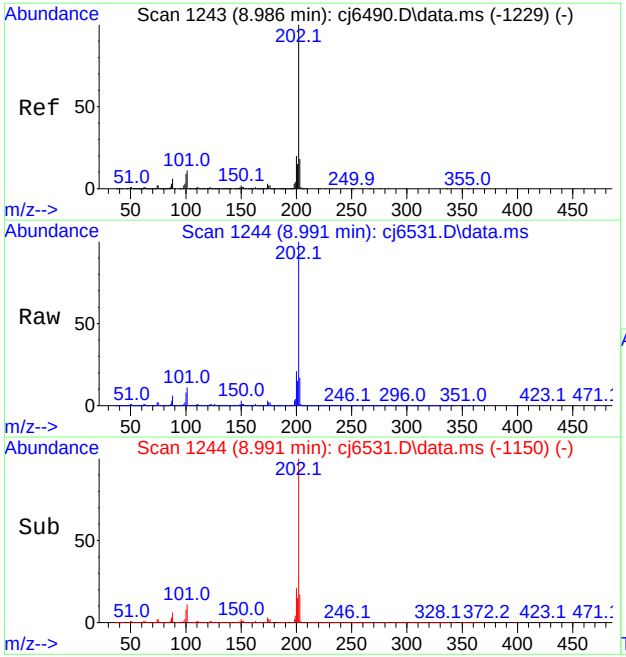


#80
Carbazole
Concen: 1.9713 ppm
RT: 8.076 min Scan# 1073
Delta R.T. 0.000 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:167 Resp: 54148

Ion	Ratio	Lower	Upper
167	100		
166	21.9	0.0	51.7
139	13.2	0.0	43.8

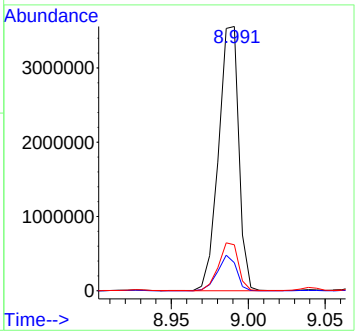


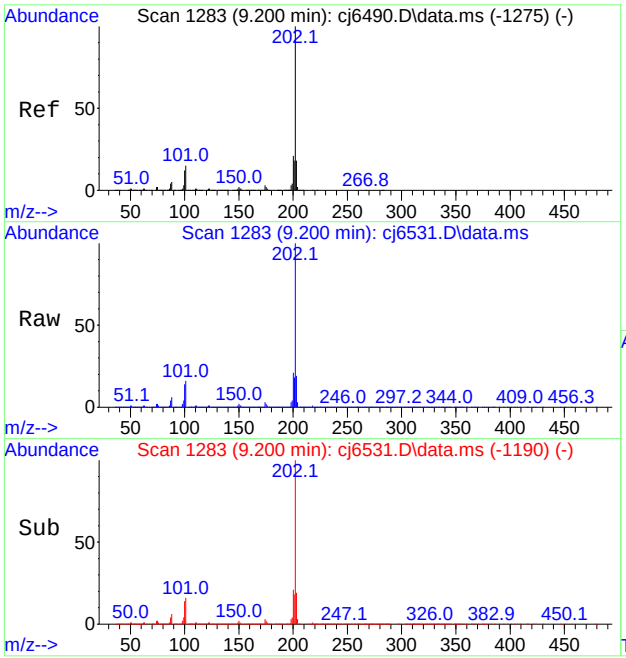


#82
Fluoranthene
Concen: 102.4018 ppm
RT: 8.991 min Scan# 1244
Delta R.T. 0.005 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:202 Resp: 3263743

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	41.4
203	17.3	0.0	47.6

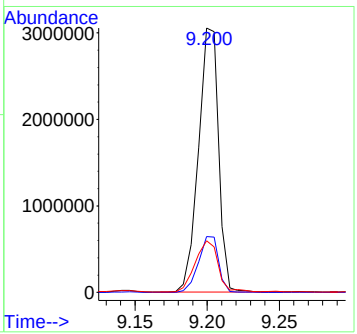


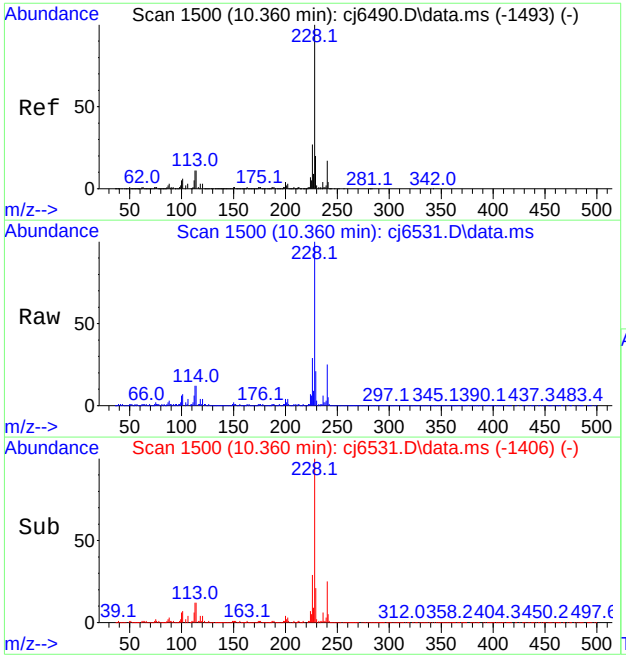


#86
Pyrene
Concen: 101.7845 ppm
RT: 9.200 min Scan# 1283
Delta R.T. -0.000 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:202 Resp: 2967693

Ion	Ratio	Lower	Upper
202	100		
200	21.1	0.0	51.4
203	19.3	0.0	47.8

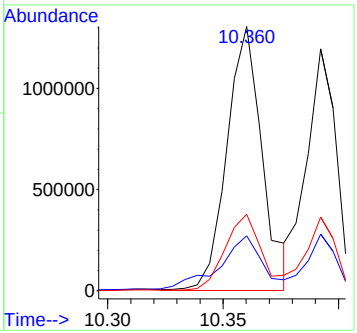


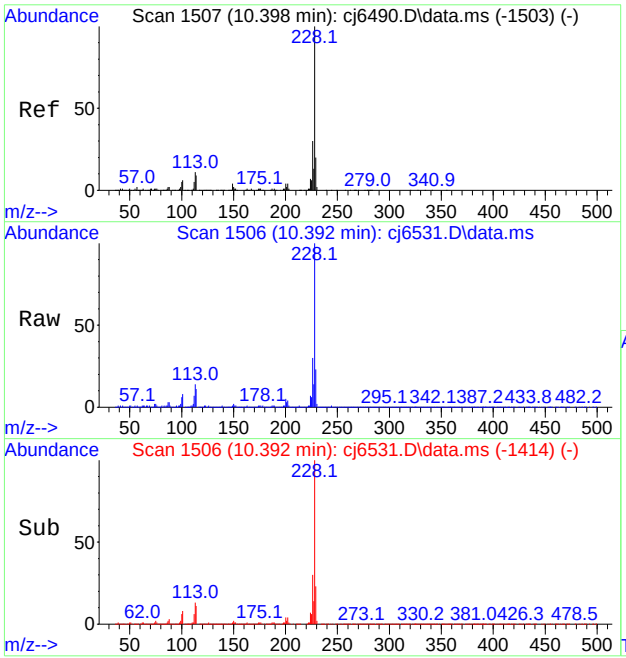


#89
Benzo[a]anthracene
Concen: 50.4098 ppm
RT: 10.360 min Scan# 1500
Delta R.T. 0.000 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:228 Resp: 1389567

Ion	Ratio	Lower	Upper
228	100		
229	20.2	0.0	49.8
226	28.5	0.0	57.1

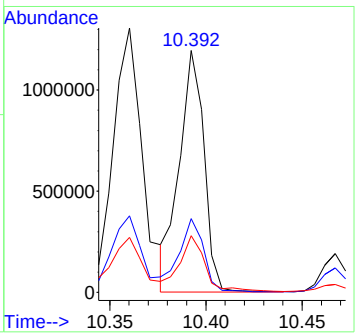


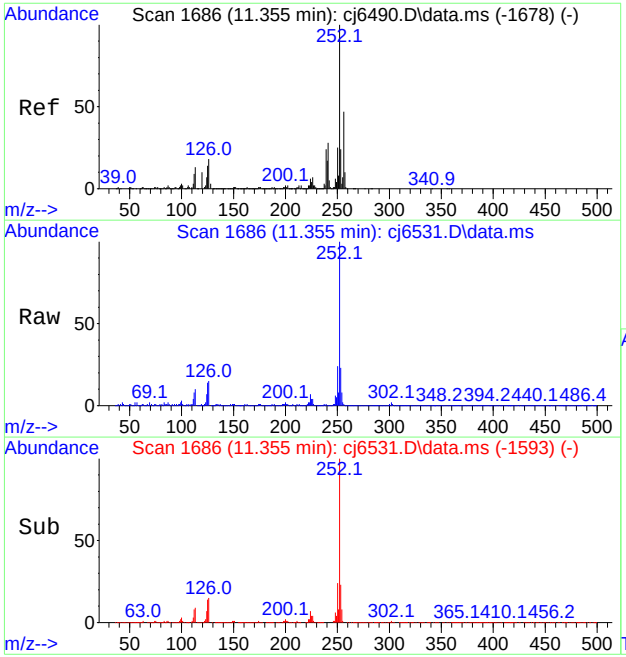


#91
Chrysene
Concen: 41.9661 ppm
RT: 10.392 min Scan# 1506
Delta R.T. -0.006 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:228 Resp: 1067306

Ion	Ratio	Lower	Upper
228	100		
226	30.1	0.0	59.9
229	23.2	0.0	49.8

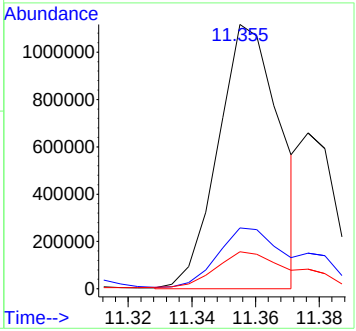


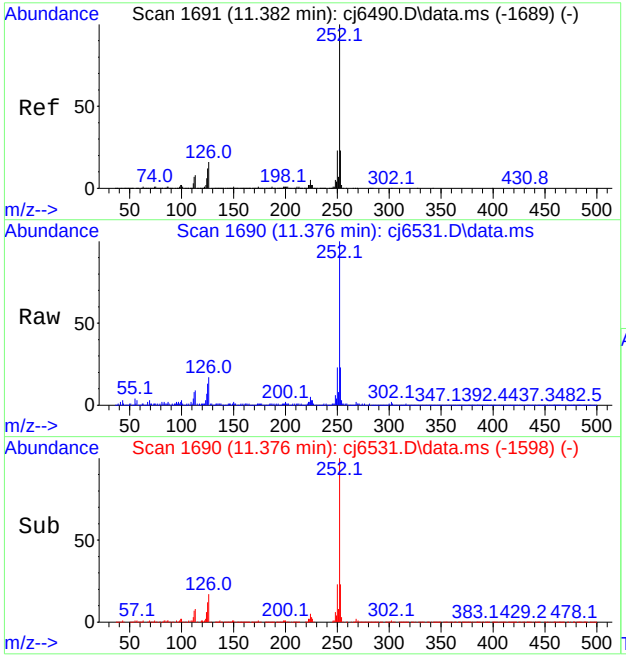


#95
Benzo[b]fluoranthene
Concen: 55.5513 ppm m
RT: 11.355 min Scan# 1686
Delta R.T. 0.000 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:252 Resp: 1502352

Ion	Ratio	Lower	Upper
252	100		
253	23.0	0.0	54.7
125	14.0	0.0	44.2

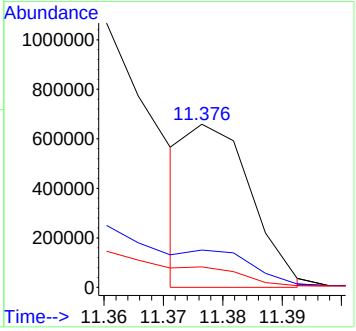


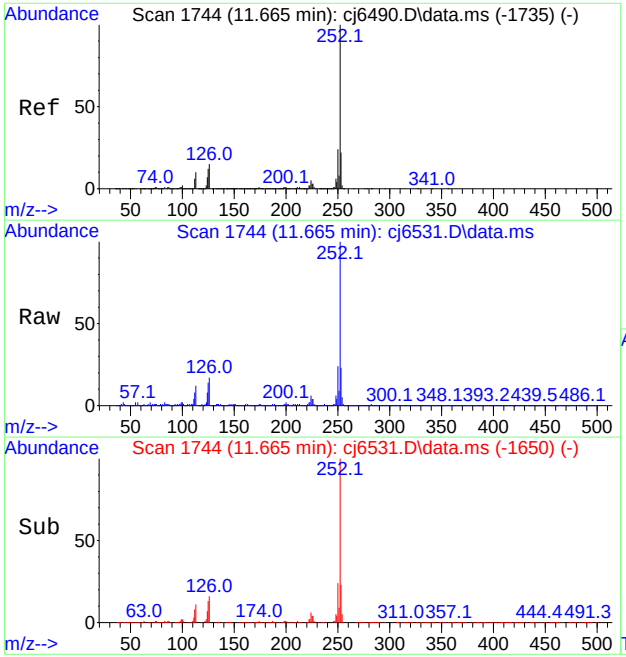


#96
Benzo[k]fluoranthene
Concen: 19.8513 ppm m
RT: 11.376 min Scan# 1690
Delta R.T. -0.006 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:252 Resp: 483090

Ion	Ratio	Lower	Upper
252	100		
253	22.9	0.0	52.6
125	12.6	0.0	42.4

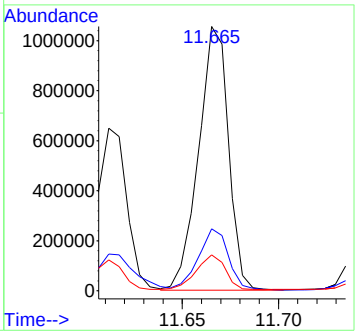


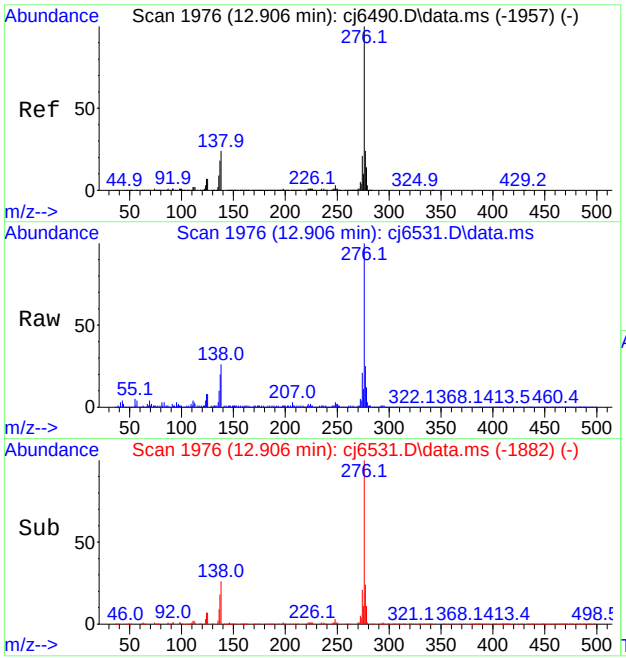


#97
Benzo[a]pyrene
Concen: 50.9803 ppm
RT: 11.665 min Scan# 1744
Delta R.T. 0.000 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:252 Resp: 1141348

Ion	Ratio	Lower	Upper
252	100		
253	22.6	0.0	51.9
125	13.2	0.0	42.1

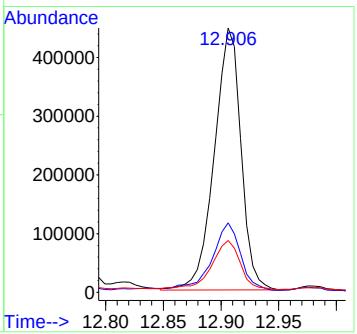


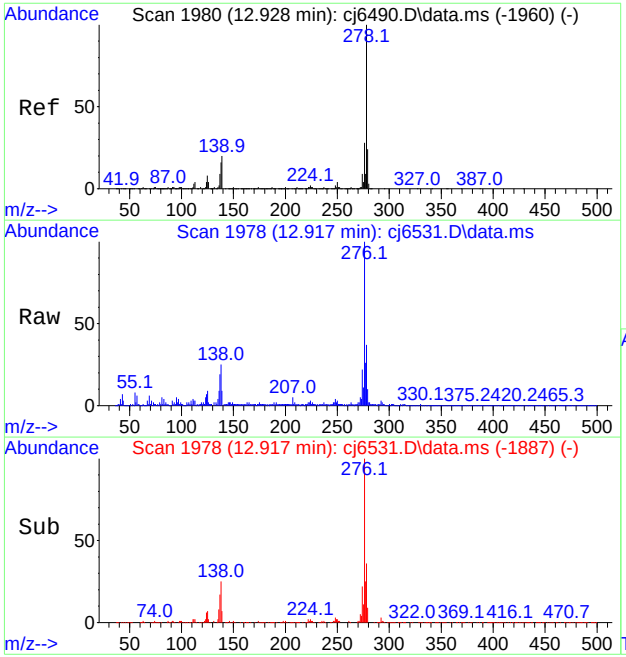


#98
Indeno[1,2,3-cd]pyrene
Concen: 26.5662 ppm
RT: 12.906 min Scan# 1976
Delta R.T. 0.000 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:276 Resp: 719017

Ion	Ratio	Lower	Upper
276	100		
138	25.4	0.0	54.2
137	18.5	0.0	47.9

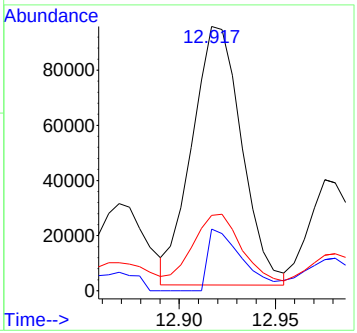


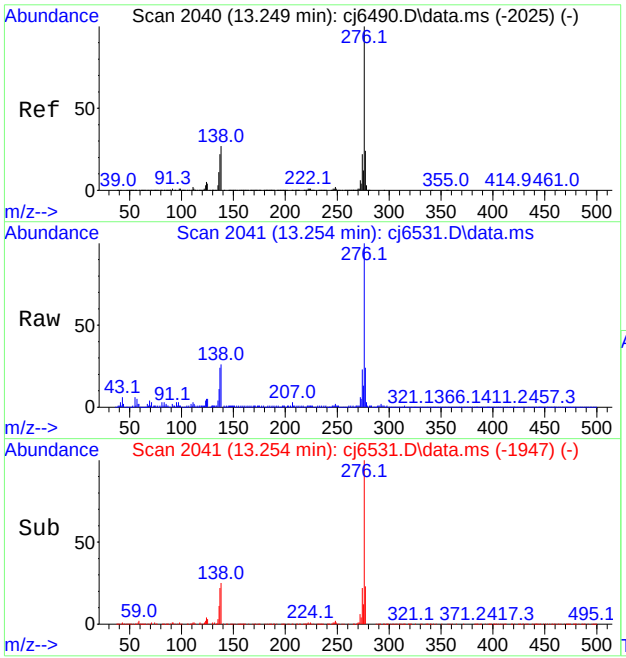


#100
Dibenz[a,h]anthracene
Concen: 7.8243 ppm
RT: 12.917 min Scan# 1978
Delta R.T. -0.011 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:278 Resp: 169208

Ion	Ratio	Lower	Upper
278	100		
139	23.6	0.0	49.8
279	26.5	0.0	54.1

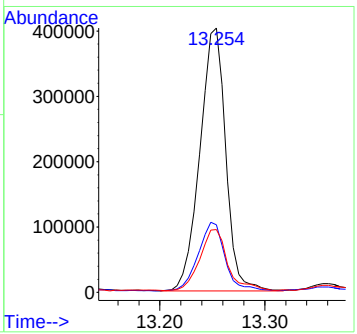




#102
Benzo[g,h,i]perylene
Concen: 32.7494 ppm
RT: 13.254 min Scan# 2041
Delta R.T. 0.005 min
Lab File: cj6531.D
Acq: 09 May 2024 10:03 pm

Tgt Ion:276 Resp: 688805

Ion	Ratio	Lower	Upper
276	100		
138	25.0	0.0	56.7
277	23.0	0.0	54.1



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6531.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.247	354	357	364	rVB	669478	424814	5.27%	0.395%
2	4.423	387	390	395	rBV	2749343	1543256	19.16%	1.435%
3	4.482	399	401	406	rVB	333888	235183	2.92%	0.219%
4	4.664	431	435	439	rBV	3664843	2151803	26.71%	2.001%
5	4.819	460	464	470	rBV	258748	186581	2.32%	0.174%
6	5.011	495	500	503	rBV	2516707	1436091	17.83%	1.336%
7	5.466	577	585	590	rBV	4170491	2700597	33.53%	2.512%
8	6.167	712	716	720	rBV	4827574	2839278	35.25%	2.641%
9	6.552	784	788	793	rBV	397626	326623	4.05%	0.304%
10	6.659	800	808	811	rBV	4349266	3091762	38.38%	2.875%
11	6.680	811	812	819	rVB	414109	236364	2.93%	0.220%
12	6.809	832	836	839	rVB	244035	190654	2.37%	0.177%
13	6.889	845	851	862	rBV	438650	784612	9.74%	0.730%
14	7.081	877	887	892	rVB	351298	364259	4.52%	0.339%
15	7.274	918	923	927	rBV	1756582	1412627	17.54%	1.314%
16	7.777	1013	1017	1025	rVB2	220883	281793	3.50%	0.262%
17	7.873	1025	1035	1037	rBV	3513022	3473333	43.12%	3.230%
18	7.894	1037	1039	1042	rVB	3332550	2375283	29.49%	2.209%
19	7.937	1042	1047	1050	rVB	1309001	1084032	13.46%	1.008%
20	8.322	1112	1119	1121	rBV	498766	493374	6.13%	0.459%
21	8.344	1121	1123	1126	rVB	518967	405046	5.03%	0.377%
22	8.392	1129	1132	1134	rVB	292032	249549	3.10%	0.232%
23	8.424	1134	1138	1146	rVB	1188296	1439002	17.86%	1.338%
24	8.600	1162	1171	1178	rBV2	430977	665732	8.26%	0.619%
25	8.836	1209	1215	1218	rBV	405423	448702	5.57%	0.417%
26	8.868	1218	1221	1224	rBV	201490	206831	2.57%	0.192%
27	8.911	1224	1229	1235	rVB2	490837	558262	6.93%	0.519%
28	8.986	1235	1243	1248	rBV	8600962	7852563	97.49%	7.303%
29	9.039	1248	1253	1262	rVB4	272686	631476	7.84%	0.587%
30	9.119	1262	1268	1275	rBV3	389870	522348	6.48%	0.486%
31	9.200	1276	1283	1290	rBV	7486455	8055028	100.00%	7.491%
32	9.248	1290	1292	1299	rVB2	245594	332778	4.13%	0.309%
33	9.317	1299	1305	1308	rBV	421876	394461	4.90%	0.367%
34	9.355	1308	1312	1317	rVB	3744786	3114494	38.67%	2.897%
35	9.413	1317	1323	1327	rBV3	408735	637067	7.91%	0.592%
36	9.520	1331	1343	1346	rVB	861828	1380645	17.14%	1.284%
37	9.585	1346	1355	1358	rBV	800103	837039	10.39%	0.778%
38	9.617	1358	1361	1364	rBV	763503	684118	8.49%	0.636%
39	9.702	1374	1377	1380	rBV	385973	329400	4.09%	0.306%
40	9.734	1380	1383	1387	rBV	421366	347726	4.32%	0.323%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.777	1387	1391	1394	rVB5	131651	187394	2.33%	0.174%
42	9.809	1394	1397	1408	rVB6	133805	300151	3.73%	0.279%
43	9.916	1408	1417	1418	rBV5	141948	251137	3.12%	0.234%
44	10.007	1428	1434	1440	rBV2	421263	525491	6.52%	0.489%
45	10.071	1440	1446	1449	rBV3	157386	230680	2.86%	0.215%
46	10.114	1449	1454	1458	rBV2	489651	604416	7.50%	0.562%
47	10.152	1458	1461	1462	rBV	438266	383975	4.77%	0.357%
48	10.216	1470	1473	1478	rVB	457934	455503	5.65%	0.424%
49	10.275	1478	1484	1493	rVB3	296778	557977	6.93%	0.519%
50	10.366	1493	1501	1504	rBV2	4687156	7064423	87.70%	6.570%
51	10.392	1504	1506	1514	rVB	3349857	2788954	34.62%	2.594%
52	10.467	1514	1520	1523	rBV	761135	856266	10.63%	0.796%
53	10.499	1523	1526	1533	rVB4	230748	309471	3.84%	0.288%
54	10.569	1533	1539	1541	rVB3	182512	259555	3.22%	0.241%
55	10.596	1541	1544	1552	rVB3	293899	482566	5.99%	0.449%
56	10.686	1556	1561	1564	rBV3	157067	263598	3.27%	0.245%
57	10.751	1568	1573	1576	rBV	489911	519696	6.45%	0.483%
58	10.783	1576	1579	1582	rVB	245132	209783	2.60%	0.195%
59	10.842	1582	1590	1592	rBV2	365911	427332	5.31%	0.397%
60	10.868	1592	1595	1597	rVV4	259805	294109	3.65%	0.274%
61	10.884	1597	1598	1600	rVV	257583	198658	2.47%	0.185%
62	10.906	1600	1602	1608	rVB2	604930	578209	7.18%	0.538%
63	10.949	1608	1610	1616	rVB2	176658	182970	2.27%	0.170%
64	11.050	1623	1629	1633	rBV4	439479	608643	7.56%	0.566%
65	11.114	1636	1641	1647	rVV6	274430	534347	6.63%	0.497%
66	11.163	1647	1650	1653	rVV3	142938	198934	2.47%	0.185%
67	11.211	1653	1659	1668	rVV3	293304	721837	8.96%	0.671%
68	11.355	1679	1686	1695	rVV	3222675	5807074	72.09%	5.401%
69	11.446	1695	1703	1707	rVV2	690383	795373	9.87%	0.740%
70	11.521	1712	1717	1724	rBV5	684825	1229113	15.26%	1.143%
71	11.574	1724	1727	1730	rVV2	131914	174778	2.17%	0.163%
72	11.612	1730	1734	1740	rVV	1794738	2006187	24.91%	1.866%
73	11.665	1740	1744	1748	rVB	2916090	3045228	37.81%	2.832%
74	11.719	1748	1754	1757	rBV	2384799	2780962	34.52%	2.586%
75	11.746	1757	1759	1770	rVB	1001859	996443	12.37%	0.927%
76	11.874	1776	1783	1788	rBV4	213322	477408	5.93%	0.444%
77	12.008	1796	1808	1818	rVB6	377030	866558	10.76%	0.806%
78	12.173	1836	1839	1843	rVV2	201001	297643	3.70%	0.277%
79	12.211	1843	1846	1849	rVV	394879	499101	6.20%	0.464%
80	12.243	1849	1852	1857	rVV2	341761	441978	5.49%	0.411%
81	12.302	1857	1863	1873	rVB6	105664	235152	2.92%	0.219%
82	12.478	1891	1896	1901	rVB6	125736	220870	2.74%	0.205%
83	12.559	1902	1911	1917	rBV8	85170	243636	3.02%	0.227%
84	12.623	1917	1923	1925	rVV4	133153	236910	2.94%	0.220%
85	12.676	1926	1933	1940	rVV9	179040	475304	5.90%	0.442%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.772	1943	1951	1957	rVV4	342995	734420	9.12%	0.683%
87	12.863	1961	1968	1971	rVV4	261630	507245	6.30%	0.472%
88	12.906	1971	1976	1984	rVV2	1323488	2366084	29.37%	2.200%
89	12.976	1984	1989	1996	rVV	175806	371009	4.61%	0.345%
90	13.051	1996	2003	2007	rVV2	280437	530555	6.59%	0.493%
91	13.093	2007	2011	2022	rVV6	441798	1197042	14.86%	1.113%
92	13.168	2022	2025	2032	rVV6	179440	346272	4.30%	0.322%
93	13.249	2032	2040	2056	rVB	1168899	2291865	28.45%	2.131%
94	13.425	2064	2073	2082	rVV2	637218	1546593	19.20%	1.438%
95	13.564	2092	2099	2106	rVB10	69751	199988	2.48%	0.186%
96	13.848	2147	2152	2164	rVB5	188131	436599	5.42%	0.406%
97	13.981	2169	2177	2179	rBV8	116331	246706	3.06%	0.229%
98	14.024	2179	2185	2196	rVB8	167061	492127	6.11%	0.458%
99	14.217	2215	2221	2232	rVB5	133721	326442	4.05%	0.304%
100	14.431	2253	2261	2269	rBV9	130349	381555	4.74%	0.355%

Sum of corrected areas: 107524881

LSC Report - Integrated Chromatogram

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Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On    : 09 May 2024  10:03 pm
Operator  : rocquans
Sample    : jd87833-5
Misc      : op54460,ecj297,30.4,,,1,1
ALS Vial  : 22   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title  : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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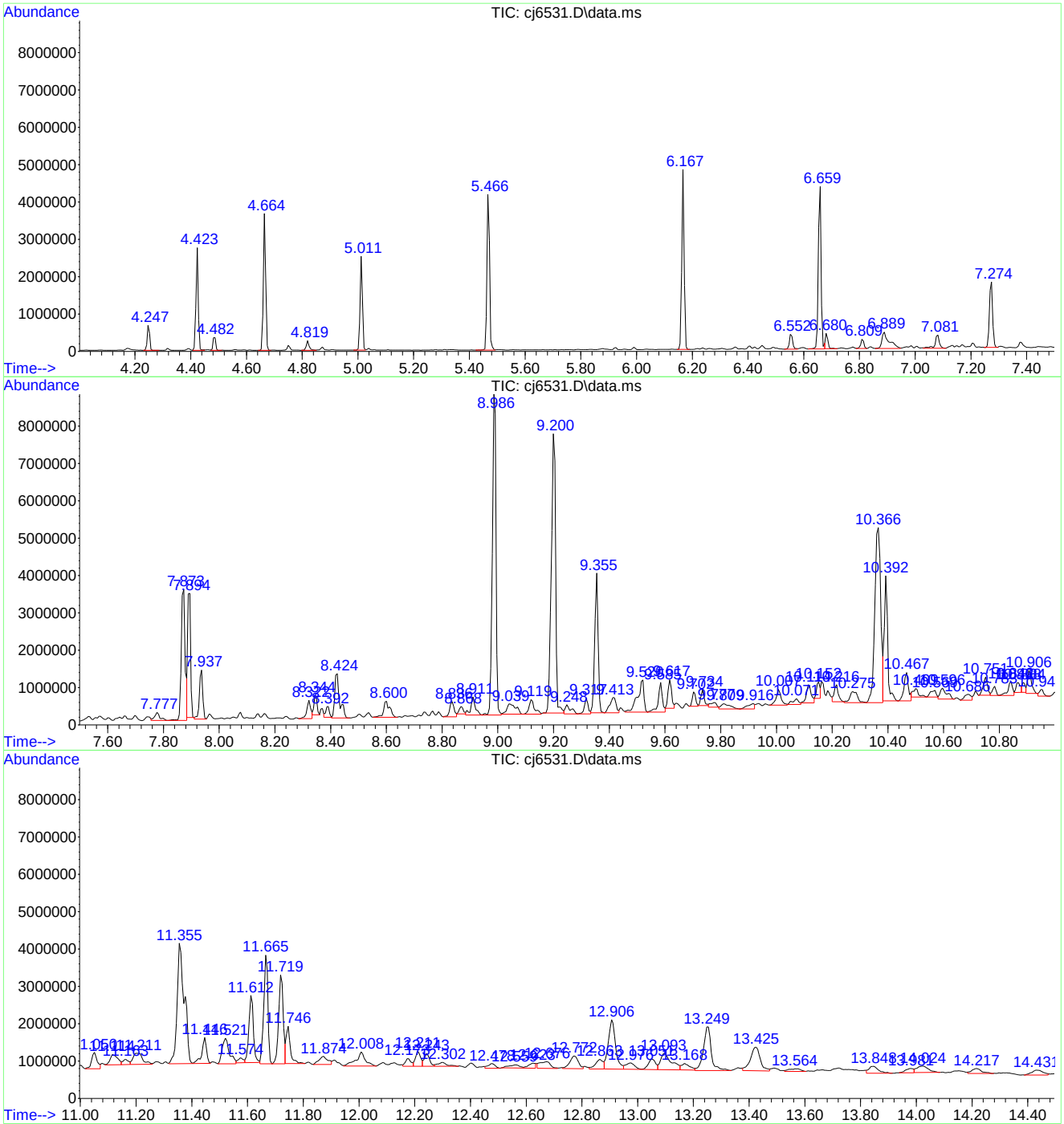


Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

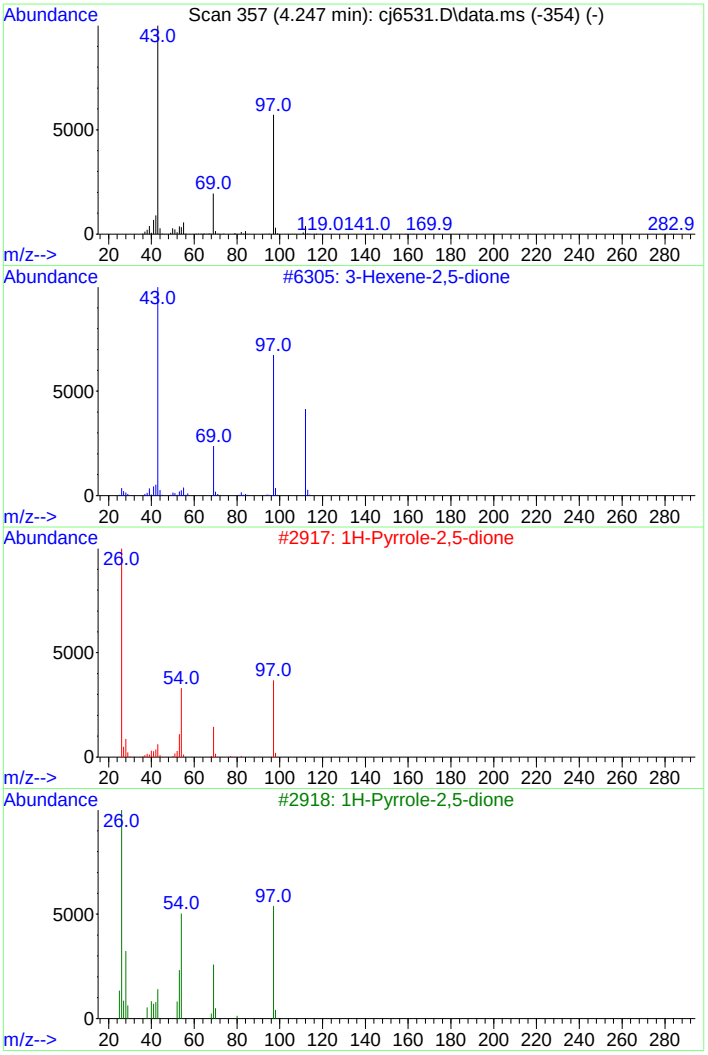
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

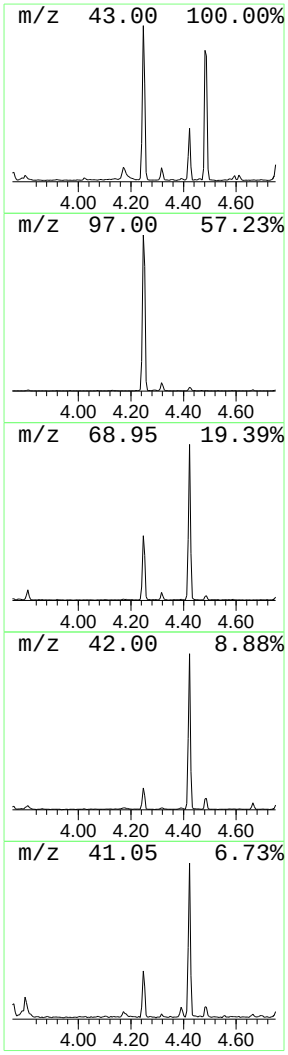
****

Peak Number 1 Unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.247	7.90 ppm	424814	1,4-Dichlorobenzene-d4a	4.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexene-2,5-dione	112	C6H8O2	004436-75-3	64
2	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	50
3	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	25
4	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	25
5	2,4-Dimethyl-1,5-diazabicyclo[3....	112	C6H12N2	100463-01-2	25





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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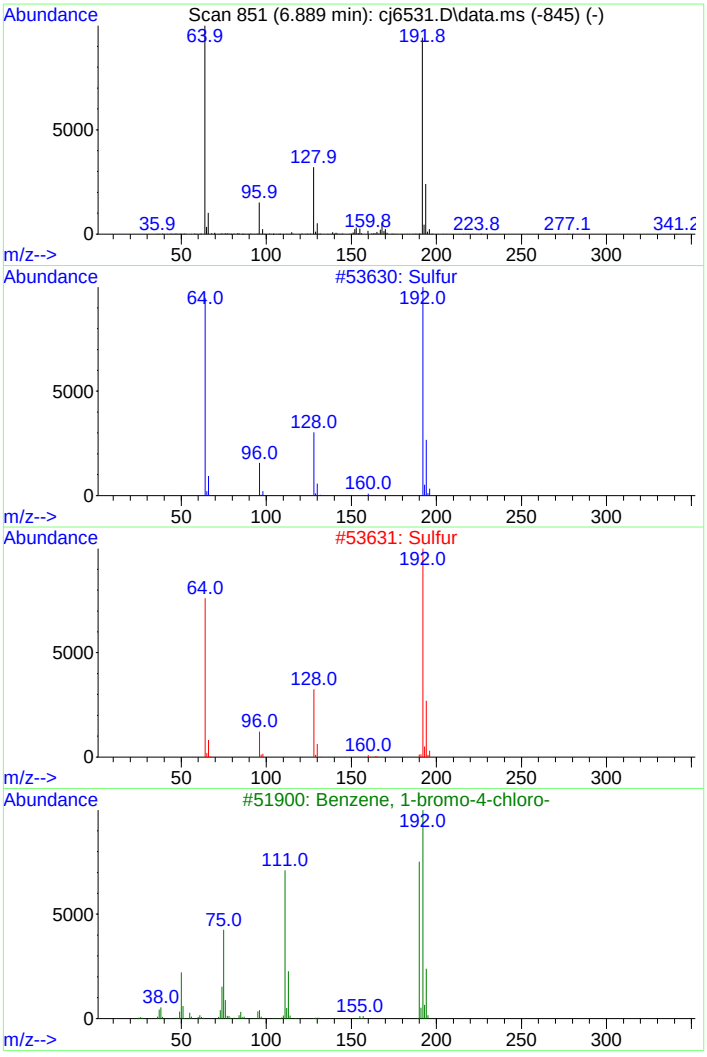
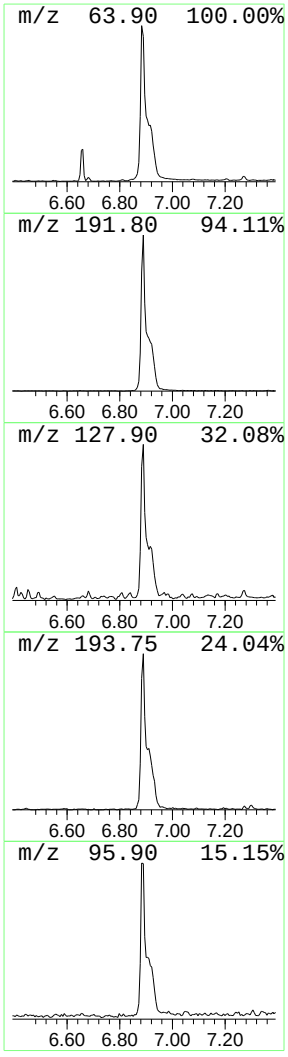
Peak Number 2 Sulfur Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.889	10.15 ppm	784612	Acenaphthene-d10	6.659

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfur	192	S6	013798-23-7	94
2	Sulfur	192	S6	013798-23-7	94
3	Benzene, 1-bromo-4-chloro-	190	C6H4BrCl	000106-39-8	9
4	2,4-Diamino-6-methylpteridine-8-...	192	C7H8N6O	019994-63-9	9
5	1,2-Dimethyl-5-nitro-1H-imidazo[...	192	C8H8N4O2	1000296-10-0	9





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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Peak Number 3 Anthracene, methyl Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.322	5.68 ppm	493374	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
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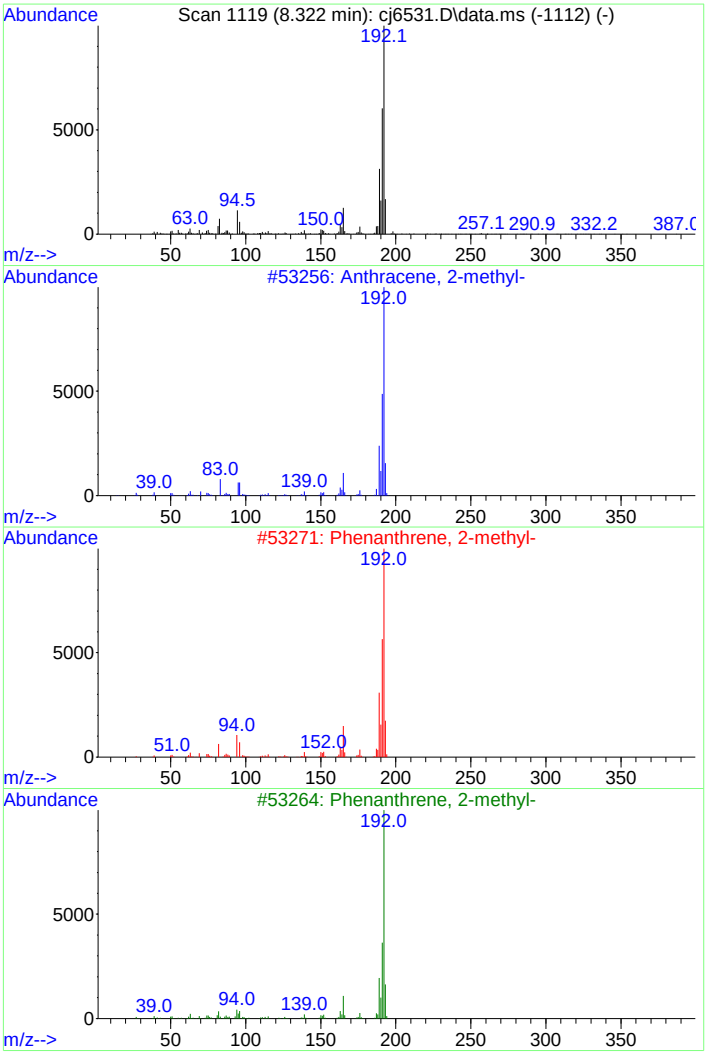
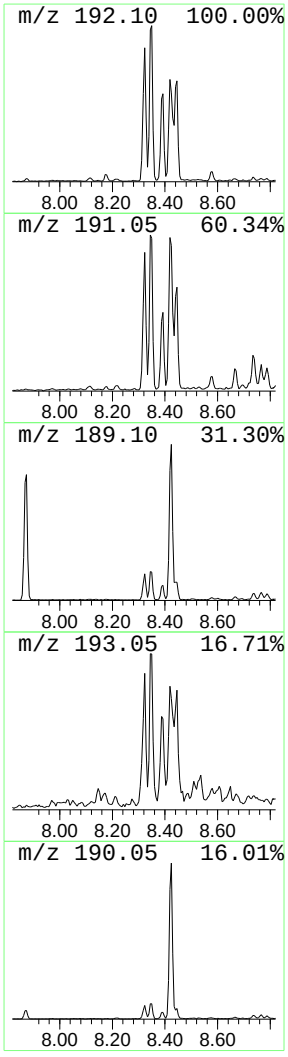




Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

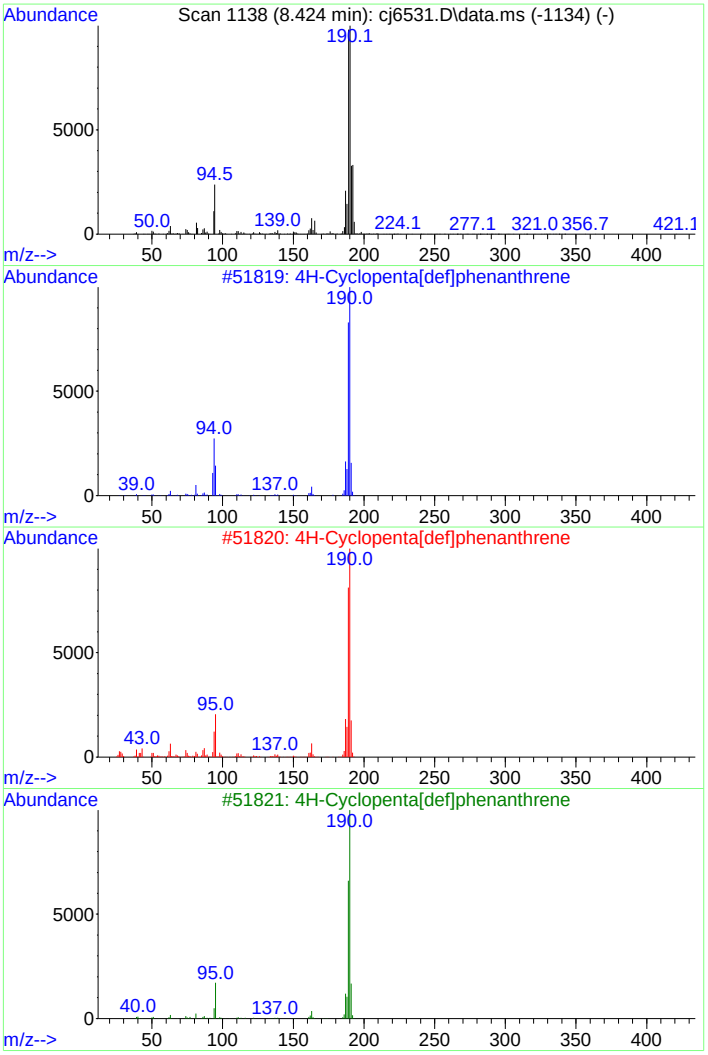
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

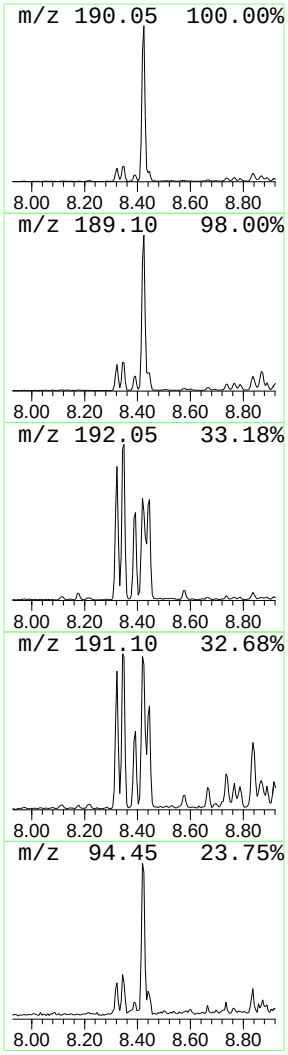
****

Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.424	16.57 ppm	1439000	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	68
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
4	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

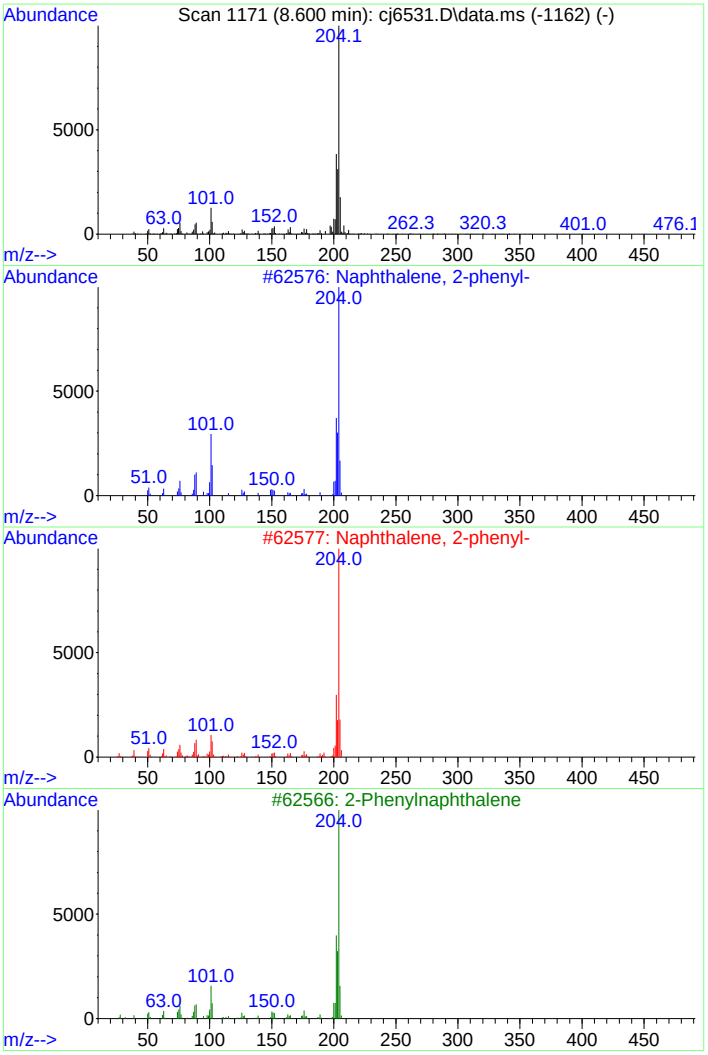
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

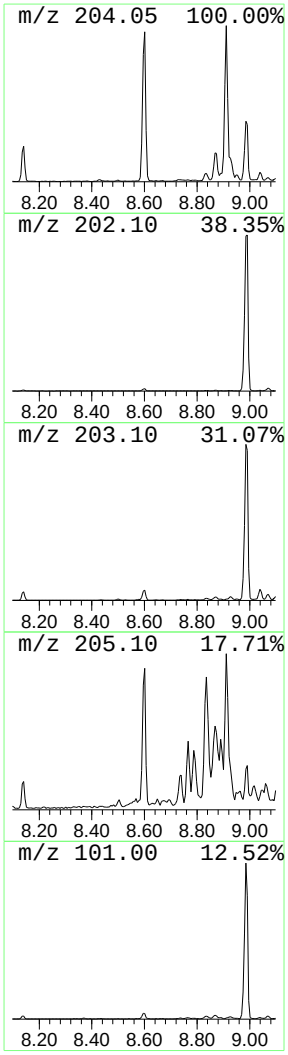
****

Peak Number 5 Naphthalene, phenyl Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.600	7.67 ppm	665732	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	83
3	2-Phenylnaphthalene	204	C16H12	035465-71-5	70
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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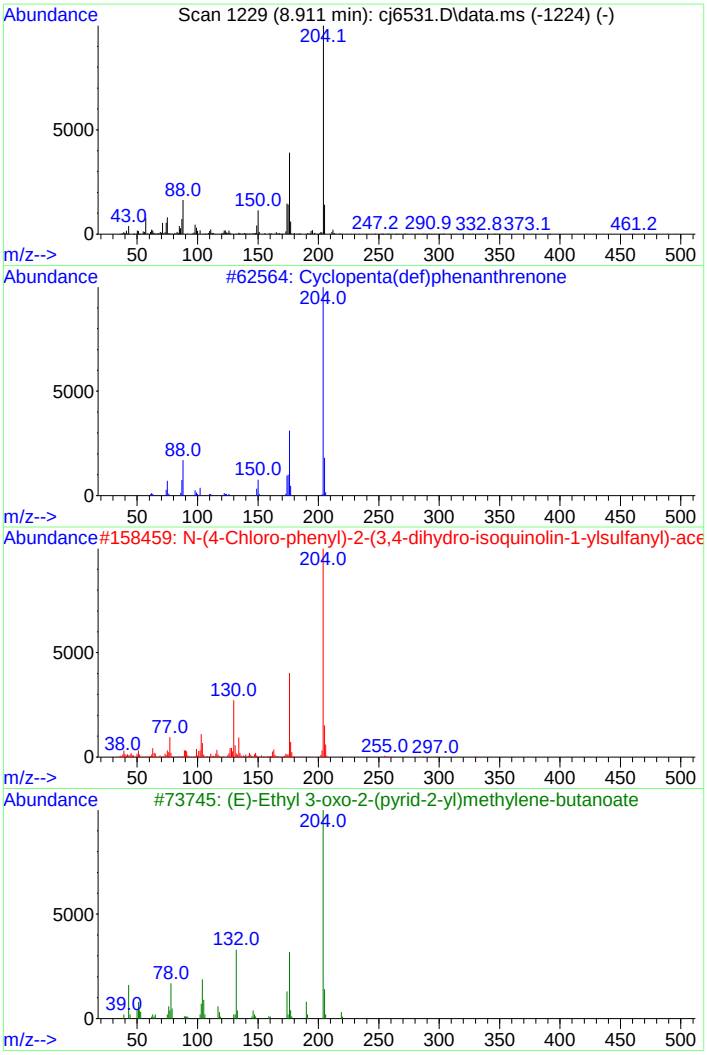
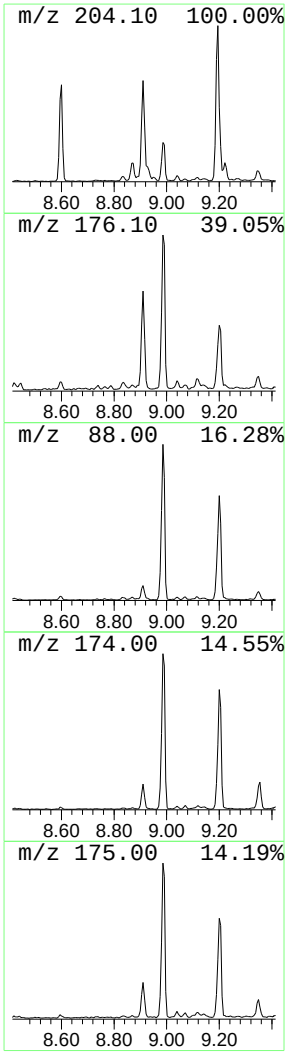
Peak Number 6 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.911	6.43 ppm	558262	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	94
2	N-(4-Chloro-phenyl)-2-(3,4-dihyd...	330	C17H15ClN2OS	1000296-34-3	59
3	(E)-Ethyl 3-oxo-2-(pyrid-2-yl)me...	219	C12H13NO3	1000147-59-7	50
4	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	42
5	[1,2,4]Triazolo[5,1-b]quinazolin...	204	C10H12N4O	1000337-56-5	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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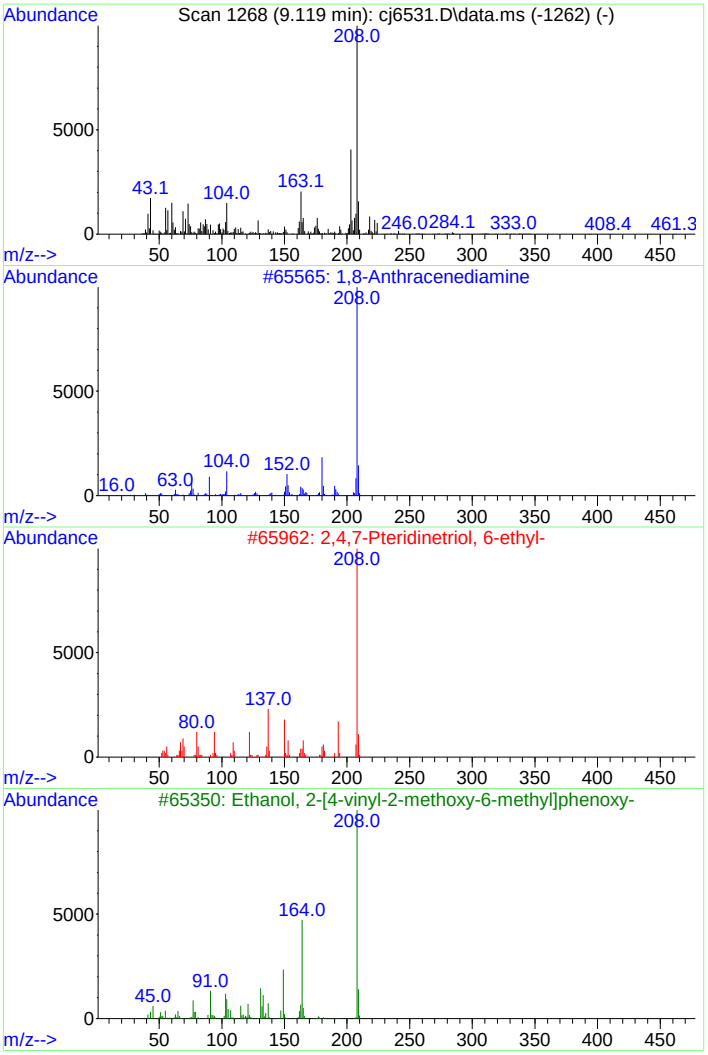
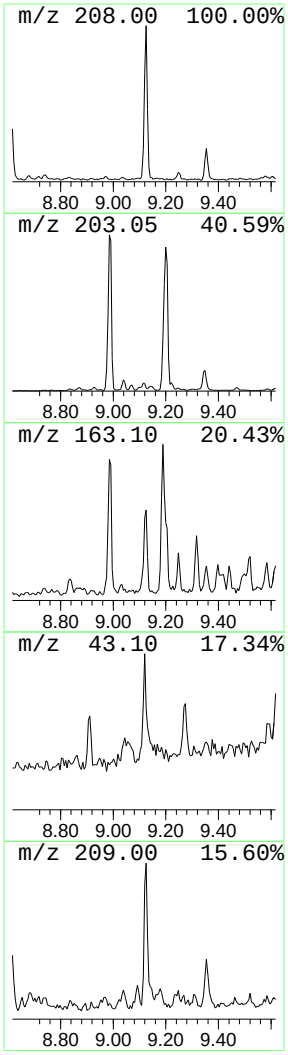
Peak Number 7 Unknown Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.119	6.02 ppm	522348	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,8-Anthracenediamine	208	C14H12N2	139312-39-3	49
2	2,4,7-Pteridinetriol, 6-ethyl-	208	C8H8N4O3	031053-47-1	46
3	Ethanol, 2-[4-vinyl-2-methoxy-6-...	208	C12H16O3	1000132-26-4	43
4	4,7-Dimethyl-1,10-phenanthroline	208	C14H12N2	003248-05-3	43
5	Indole, 6-methyl-2-(3-pyridyl)-	208	C14H12N2	293762-69-3	43





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
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Sample : jd87833-5
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ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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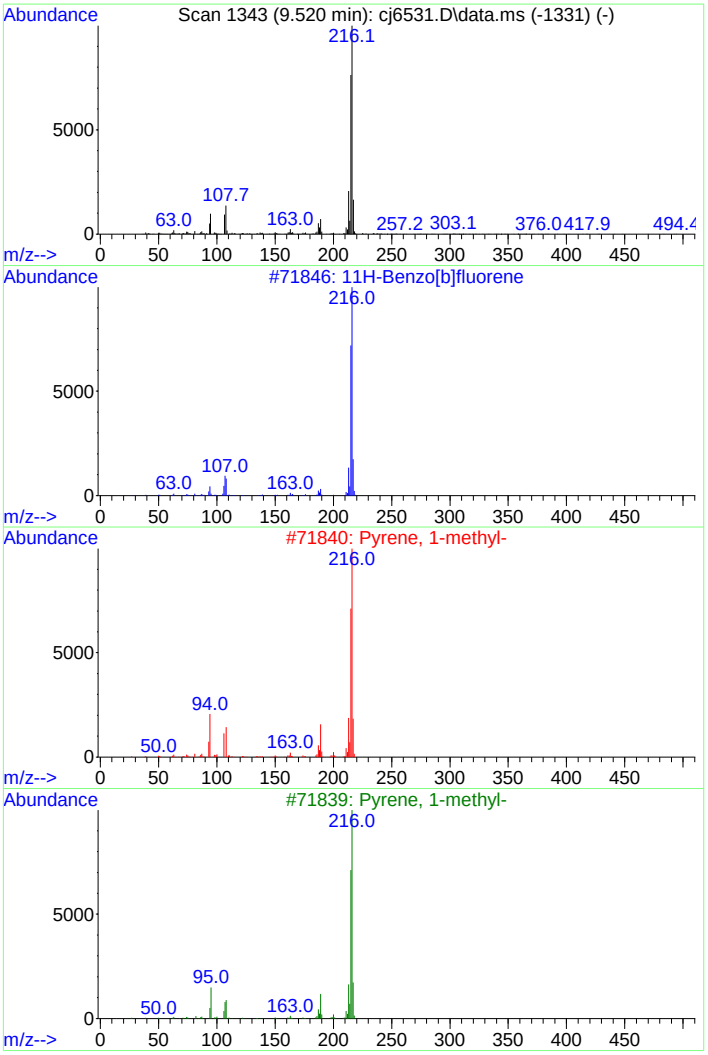
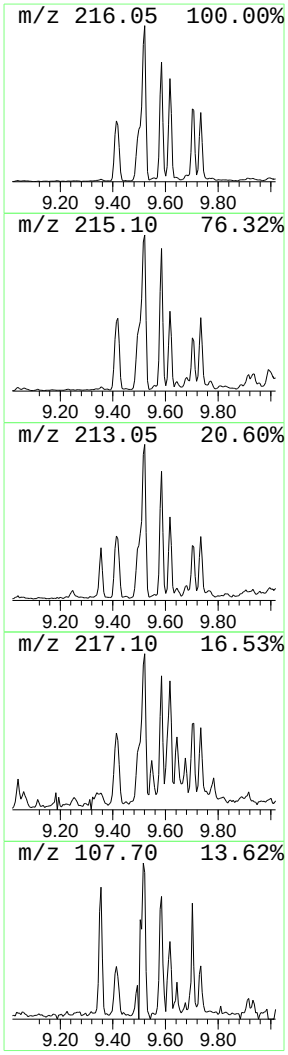
Peak Number 8 Pyrene, methyl Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.520	7.82 ppm	1380650	Chrysene-d12	10.371

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91





Library Search Compound Report

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Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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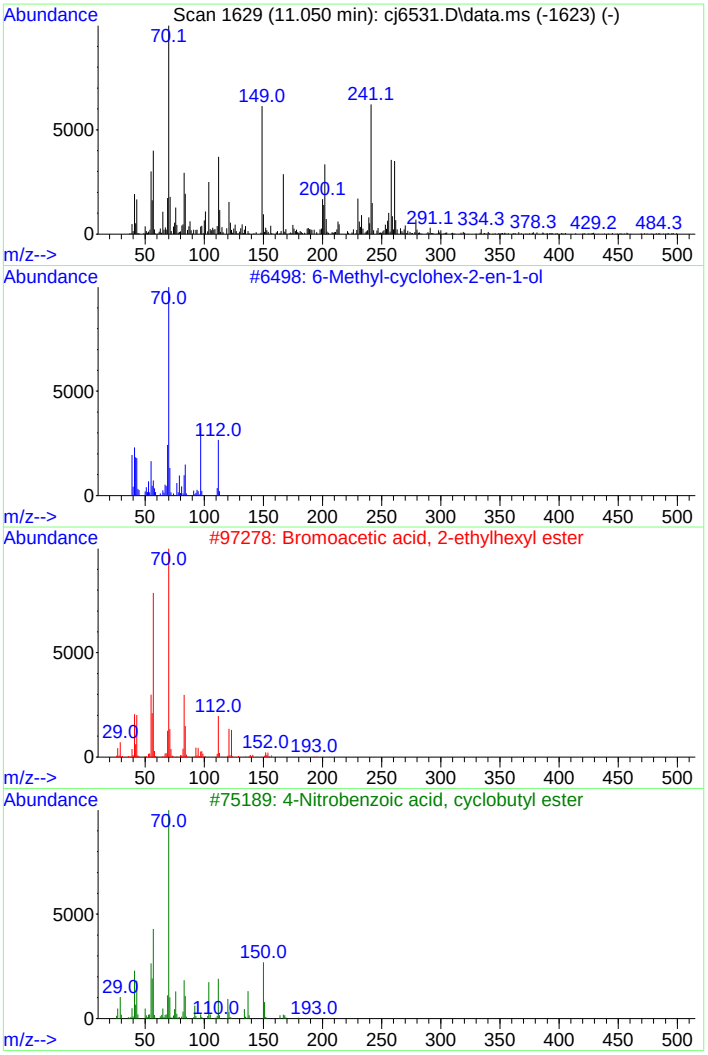
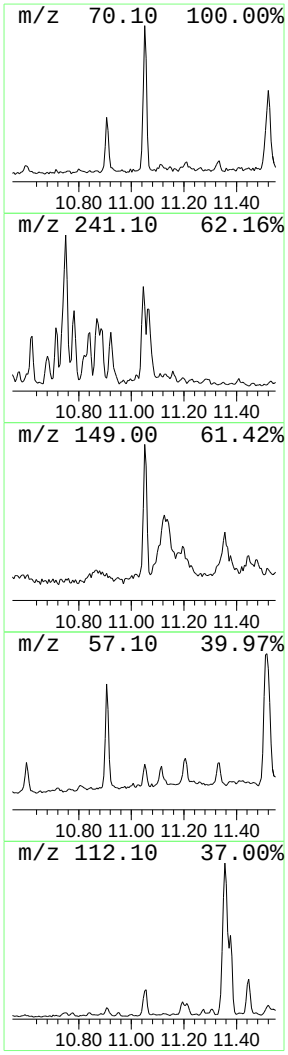
Peak Number 9 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.050	8.75 ppm	608643	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6-Methyl-cyclohex-2-en-1-ol	112	C7H12O	1000144-17-3	25
2	Bromoacetic acid, 2-ethylhexyl e...	250	C10H19BrO2	068144-73-0	22
3	4-Nitrobenzoic acid, cyclobutyl ...	221	C11H11NO4	070335-00-1	22
4	1,2,4-Benzothiadiazine, 7-chloro...	328	C13H17ClN4O2S	070443-35-5	22
5	1,2-Benzenedicarboxylic acid, di...	390	C24H38O4	027554-26-3	15





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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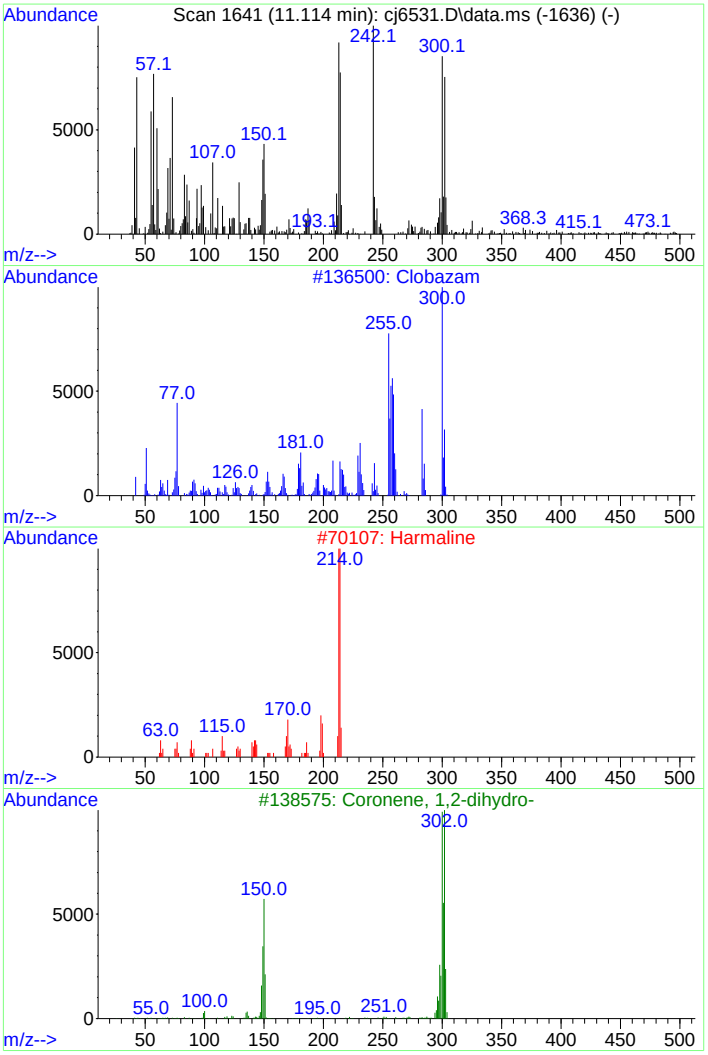
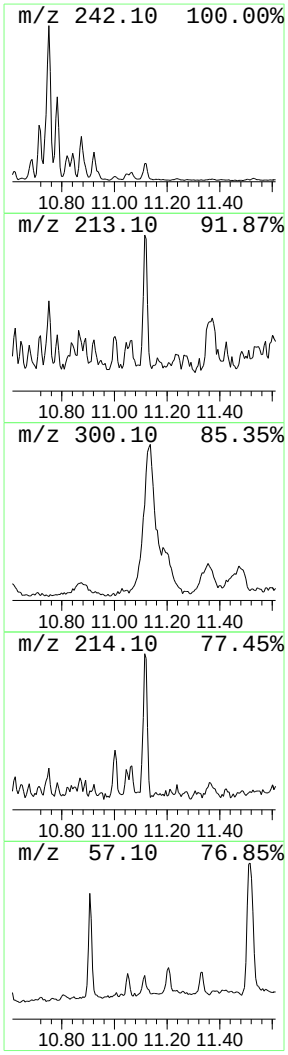
Peak Number 10 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.114	7.69 ppm	534347	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Clobazam	300	C16H13ClN2O2	022316-47-8	38
2	Harmaline	214	C13H14N2O	000304-21-2	25
3	Coronene, 1,2-dihydro-	302	C24H14	107716-56-3	25
4	Harmaline	214	C13H14N2O	000304-21-2	18
5	Harmaline	214	C13H14N2O	000304-21-2	18





Library Search Compound Report

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Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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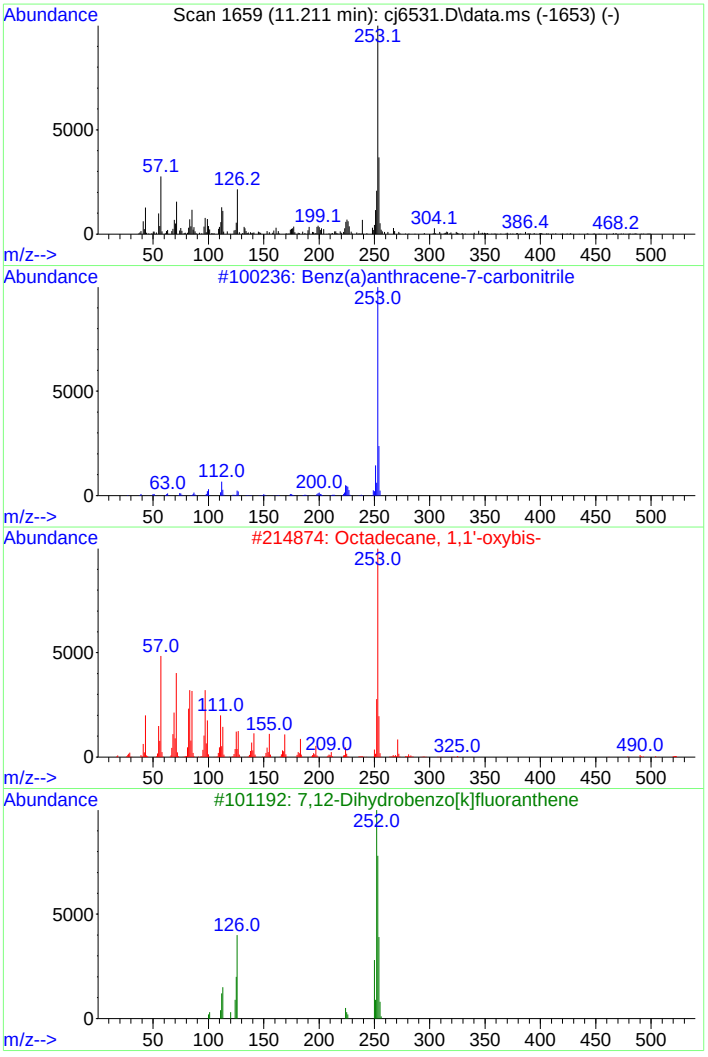
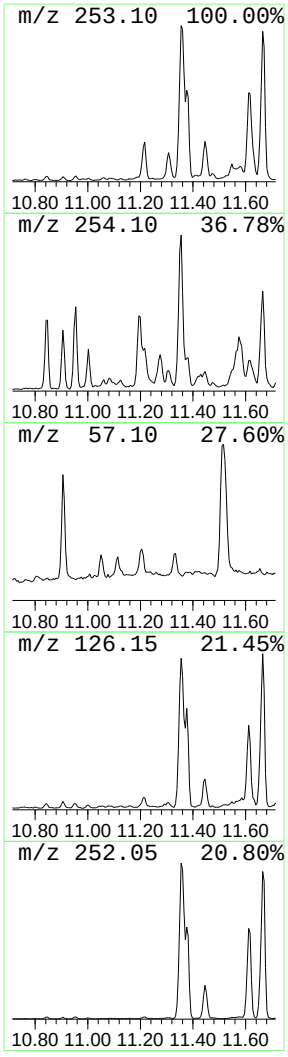
Peak Number 11 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.211	10.38 ppm	721837	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	52
2	Octadecane, 1,1'-oxybis-	523	C36H74O	006297-03-6	50
3	7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	45
4	Octadecanoic acid, 2-oxo-, methy...	312	C19H36O3	002380-18-9	38
5	Ethyl 4-(5-methyl-1,1-dioxido-4-...	373	C19H19NO5S	1000294-64-6	38





Library Search Compound Report

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Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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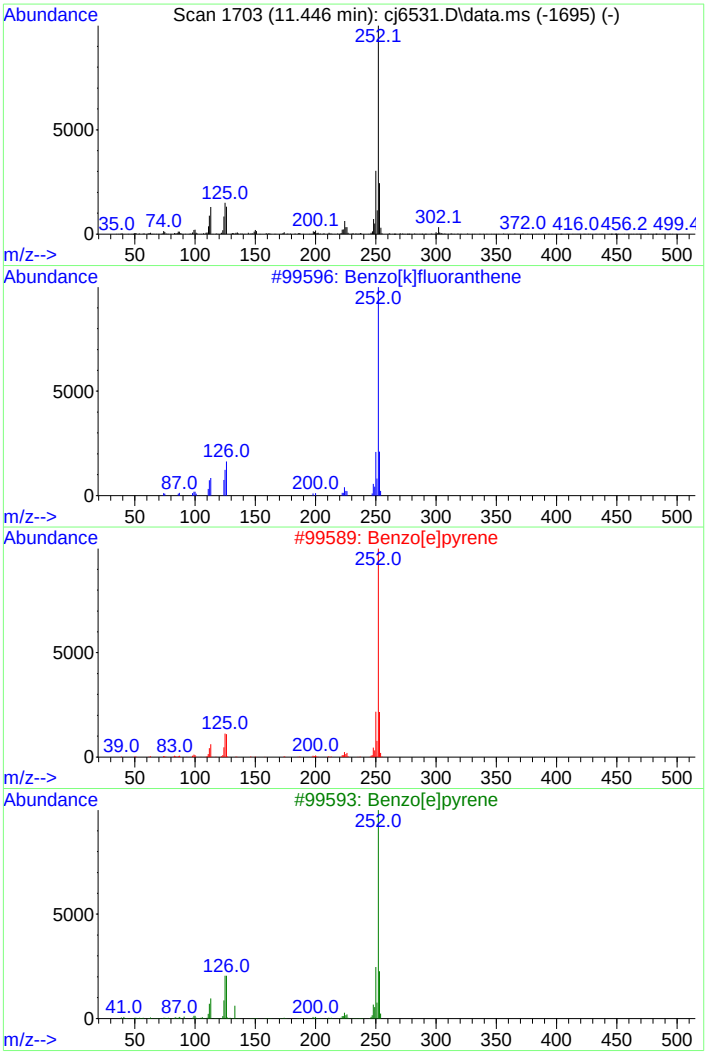
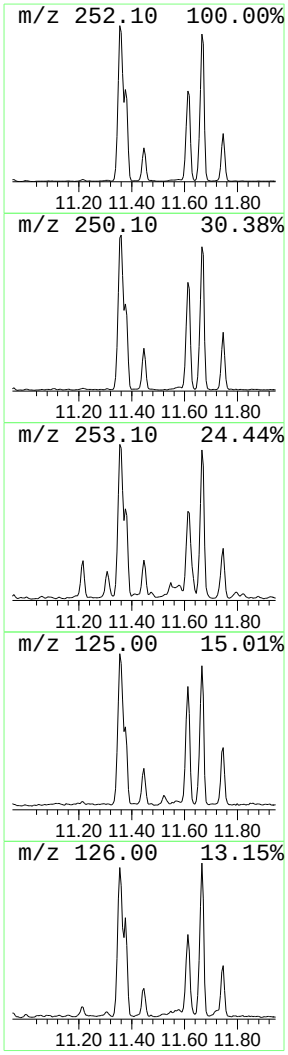
Peak Number 12 Unknown PHA Substance Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.446	11.44 ppm	795373	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
2	Benzo[e]pyrene	252	C20H12	000192-97-2	97
3	Benzo[e]pyrene	252	C20H12	000192-97-2	94
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93





Library Search Compound Report

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Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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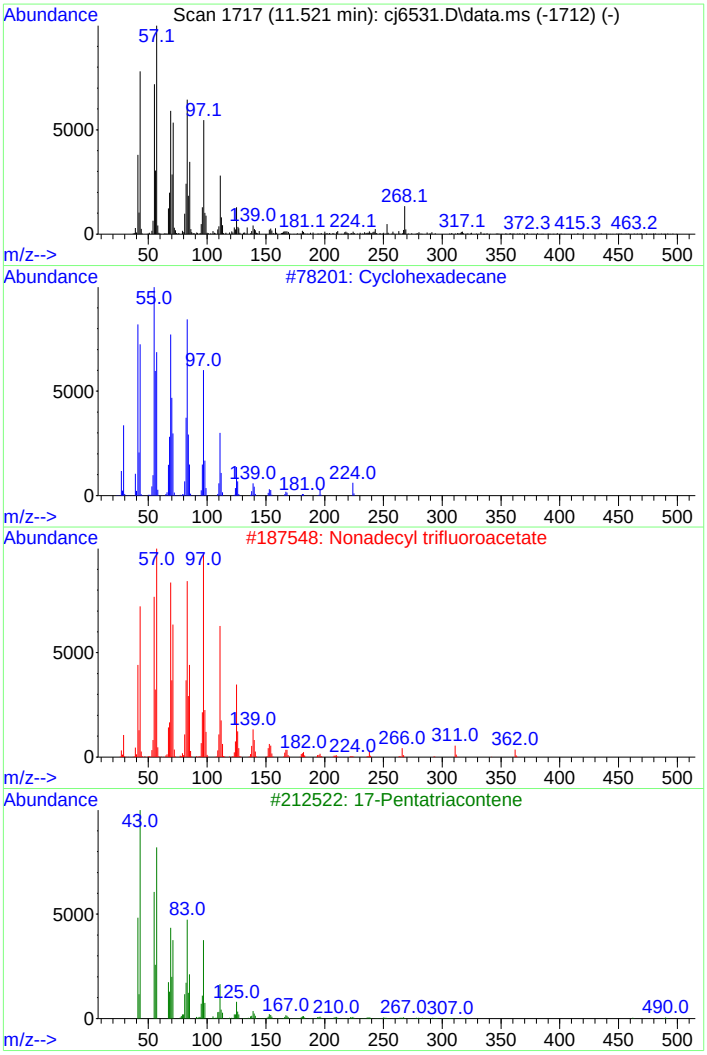
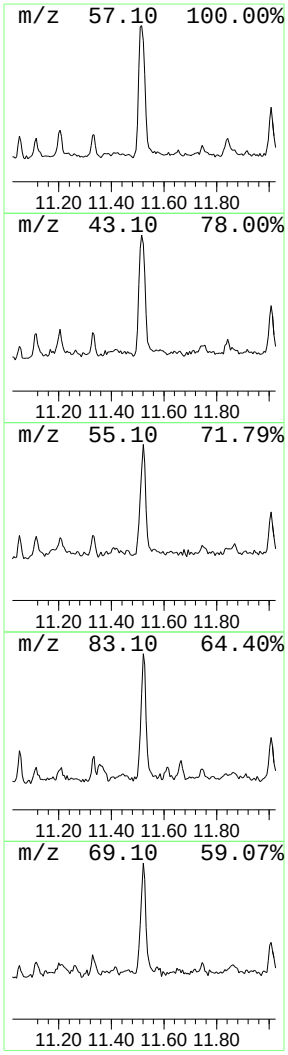
Peak Number 13 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.521	17.68 ppm	1229110	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexadecane	224	C16H32	000295-65-8	92
2	Nonadecyl trifluoroacetate	380	C21H39F3O2	1000351-76-3	91
3	17-Pentatriacontene	491	C35H70	006971-40-0	91
4	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	91
5	Eicosyl pentafluoropropionate	444	C23H41F5O2	1000351-80-8	91





Library Search Compound Report

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Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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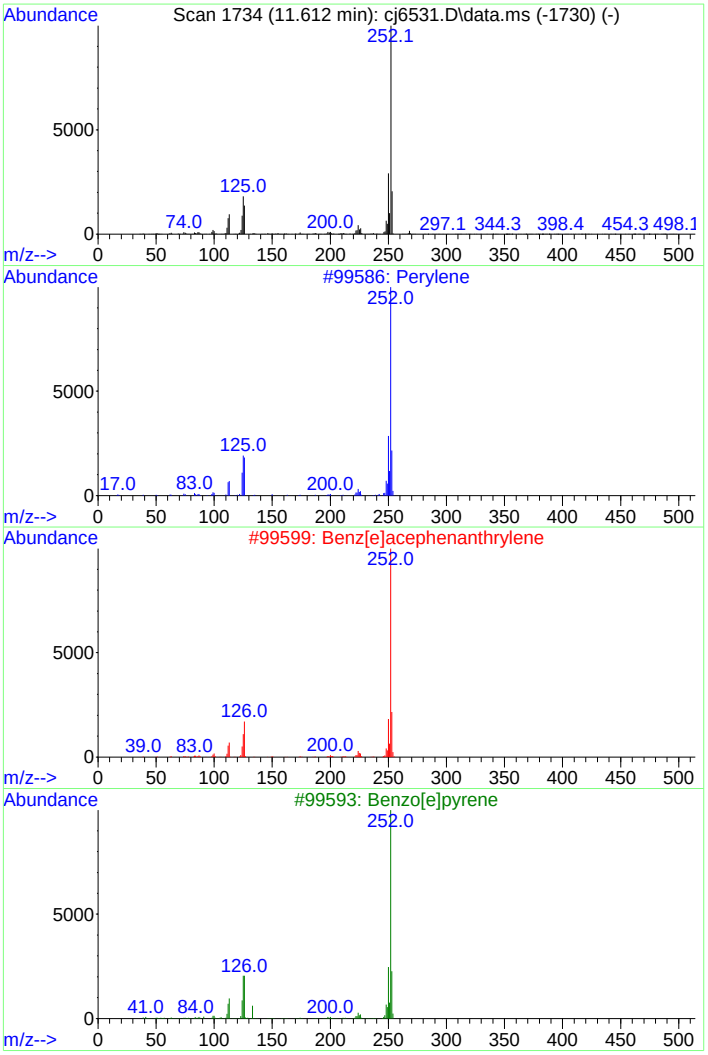
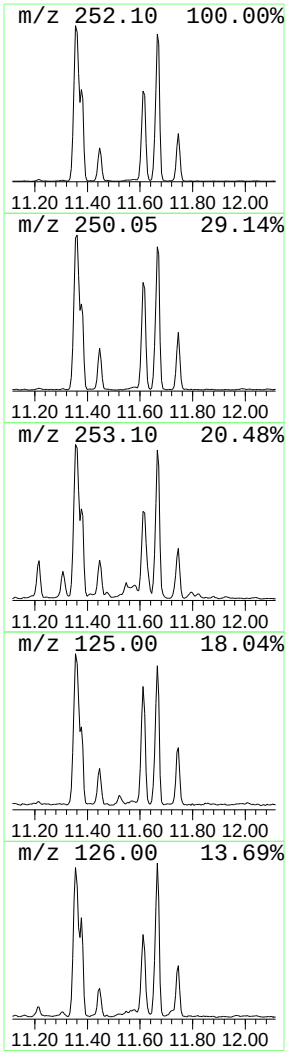
Peak Number 14 Unknown PHA Substance Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.612	28.86 ppm	2006190	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	94
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
3	Benzo[e]pyrene	252	C20H12	000192-97-2	94
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
5	Benzo[e]pyrene	252	C20H12	000192-97-2	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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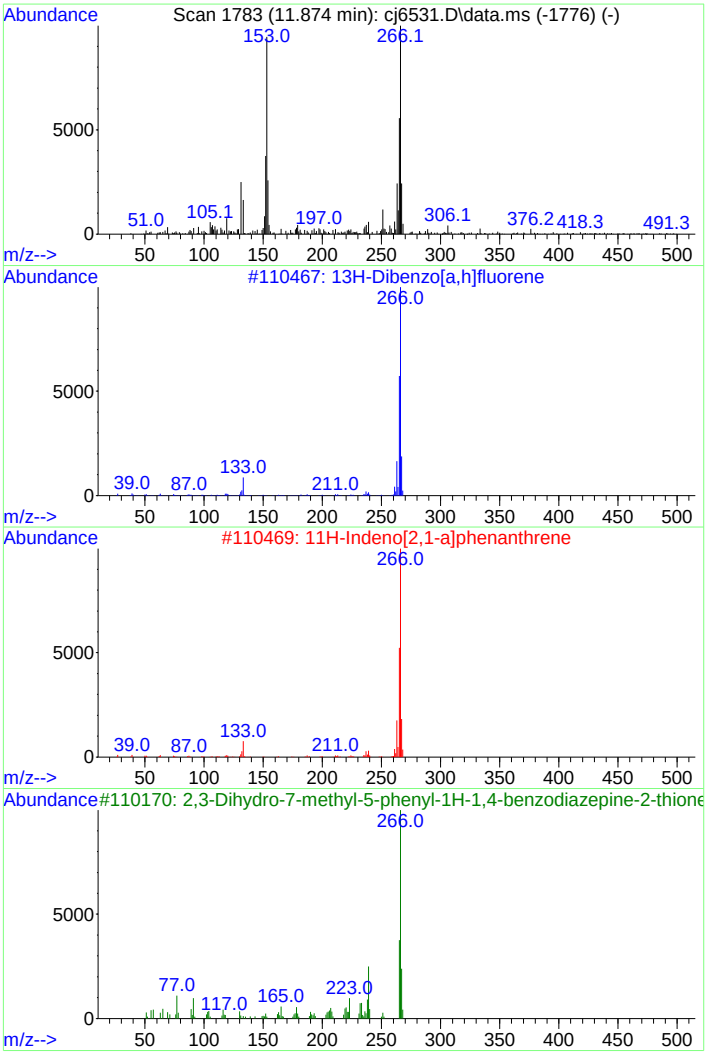
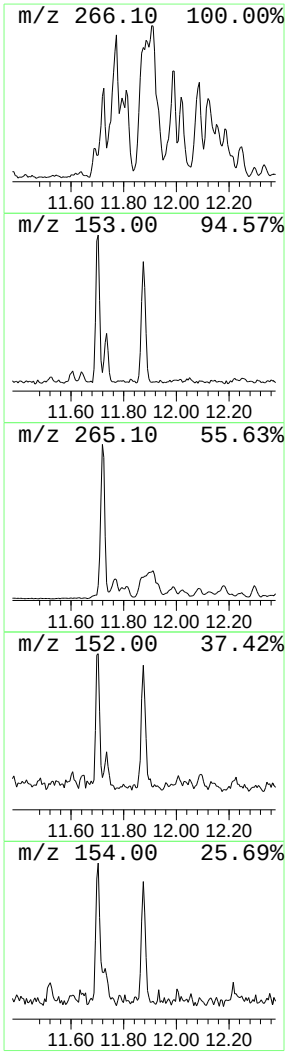
Peak Number 15 Unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.874	6.87 ppm	477408	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	46
2	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	42
3	2,3-Dihydro-7-methyl-5-phenyl-1H...	266	C16H14N2S	002888-60-0	35
4	1-Phosphacyclopent-2-ene, 1,5-di...	266	C18H19P	1000162-78-2	35
5	1-Benzothieno[3,2-f]quinazoline-...	266	C14H10N4S	065642-92-4	27





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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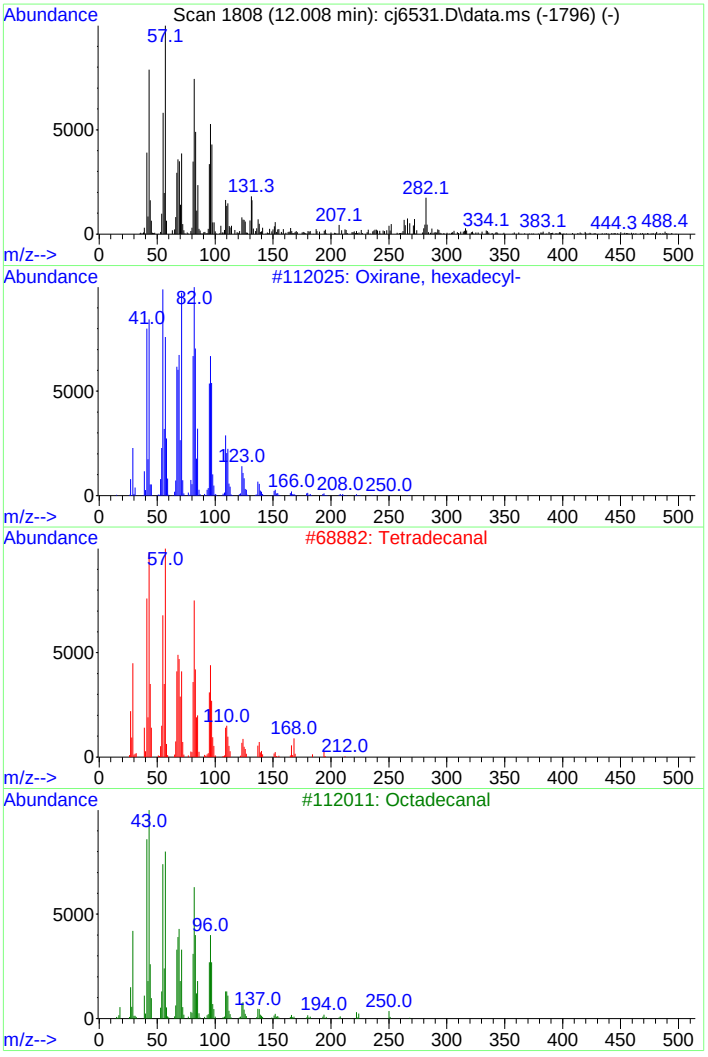
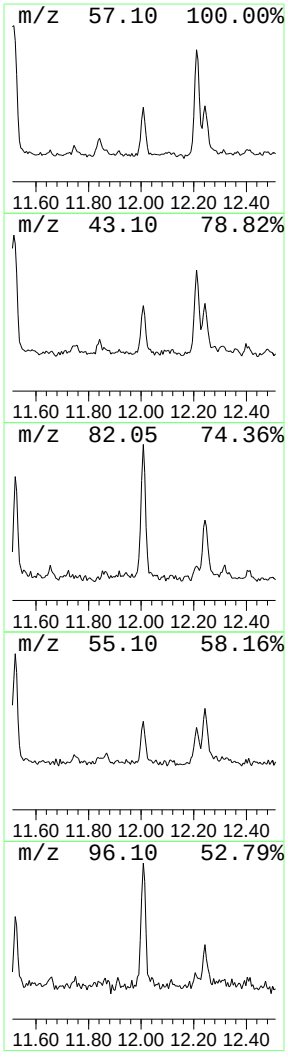
Peak Number 16 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.008	12.46 ppm	866558	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
2	Tetradecanal	212	C14H28O	000124-25-4	91
3	Octadecanal	268	C18H36O	000638-66-4	87
4	1,19-Eicosadiene	278	C20H38	014811-95-1	76
5	Cyclohexane, (1-butylhexadecyl)-	364	C26H52	004443-59-8	70





Library Search Compound Report

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Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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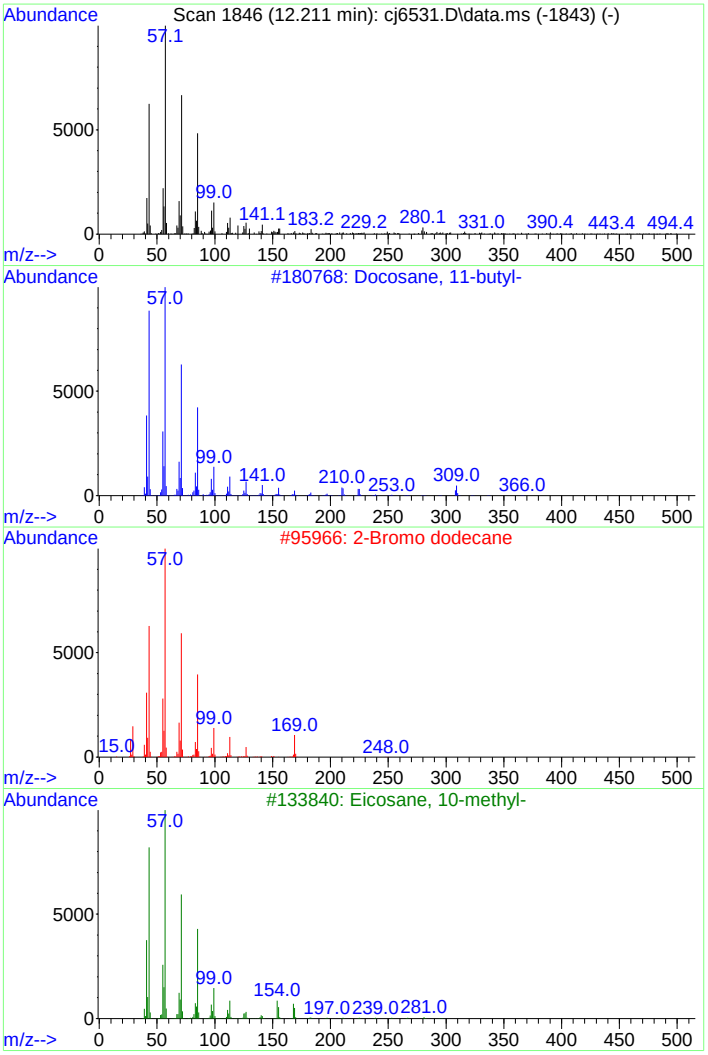
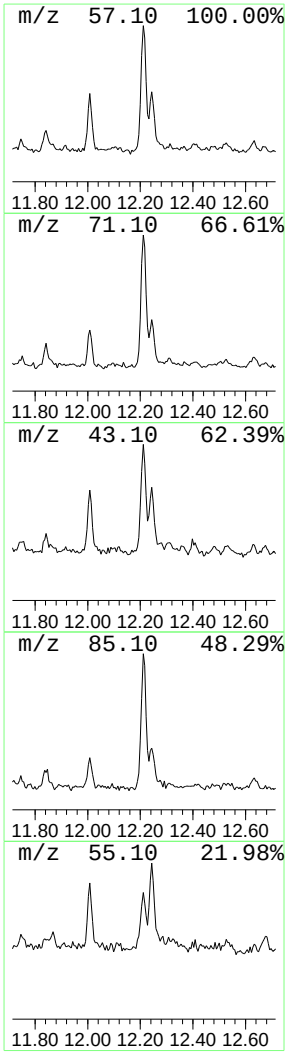
Peak Number 17 Alkane Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.211	7.18 ppm	499101	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosane, 11-butyl-	366	C26H54	013475-76-8	93
2	2-Bromo dodecane	248	C12H25Br	013187-99-0	91
3	Eicosane, 10-methyl-	296	C21H44	054833-23-7	91
4	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	87
5	Hexadecane, 6,11-dipentyl-	366	C26H54	015874-03-0	87





Library Search Compound Report

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Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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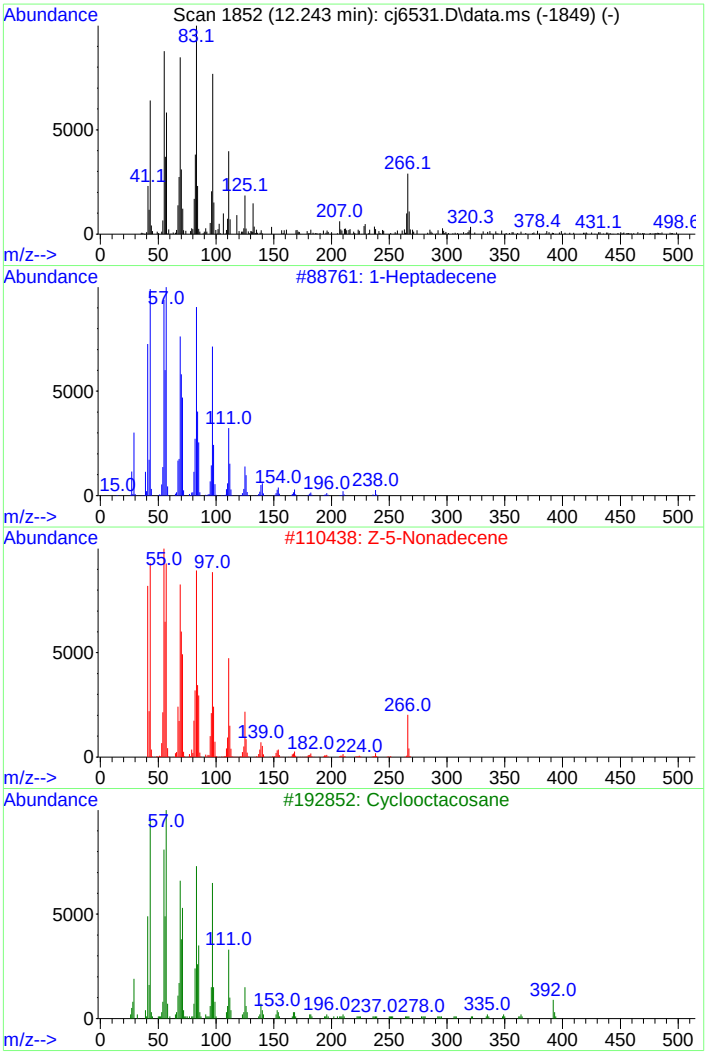
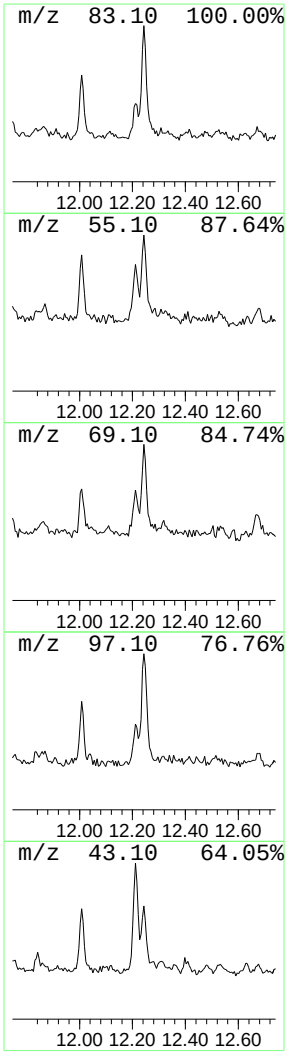
Peak Number 18 Unknown Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.243	6.36 ppm	441978	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heptadecene	238	C17H34	006765-39-5	80
2	Z-5-Nonadecene	266	C19H38	1000131-11-8	47
3	Cyclooctacosane	392	C28H56	000297-24-5	46
4	13-Tetradecen-1-ol acetate	254	C16H30O2	056221-91-1	43
5	Cyclopentane, 1-ethyl-3-methyl-,...	112	C8H16	002613-65-2	42





Library Search Compound Report

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Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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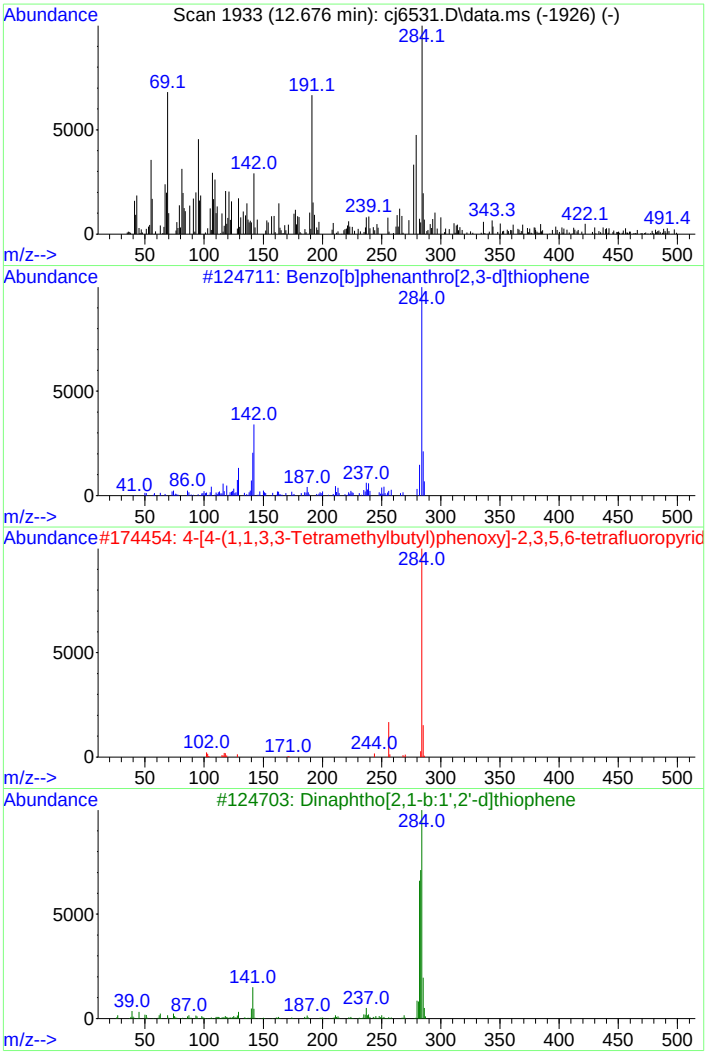
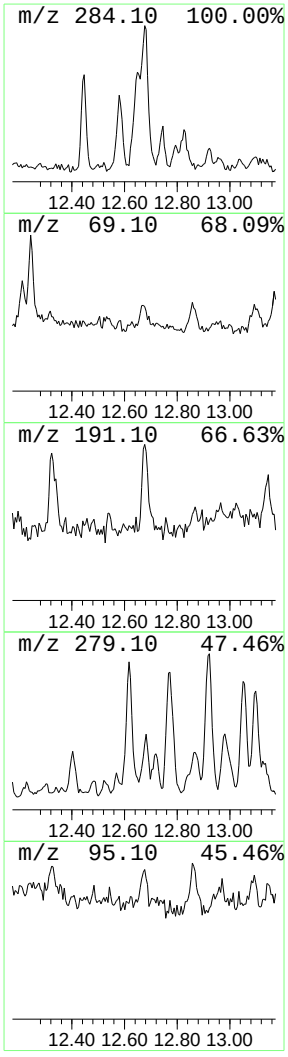
Peak Number 19 Unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.676	6.84 ppm	475304	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]phenanthro[2,3-d]thiophene	284	C20H12S	000248-85-1	30
2	4-[4-(1,1,3,3-Tetramethylbutyl)p...	355	C19H21F4NO	1000314-30-9	27
3	Dinaphtho[2,1-b:1',2'-d]thiophene	284	C20H12S	000194-65-0	25
4	3-Hydroxy-2-(4-hydroxy-3-methoxy...	284	C16H12O5	159184-95-9	25
5	Dinaphtho[1,2-b:1',2'-d]thiophene	284	C20H12S	000207-94-3	25





Library Search Compound Report

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Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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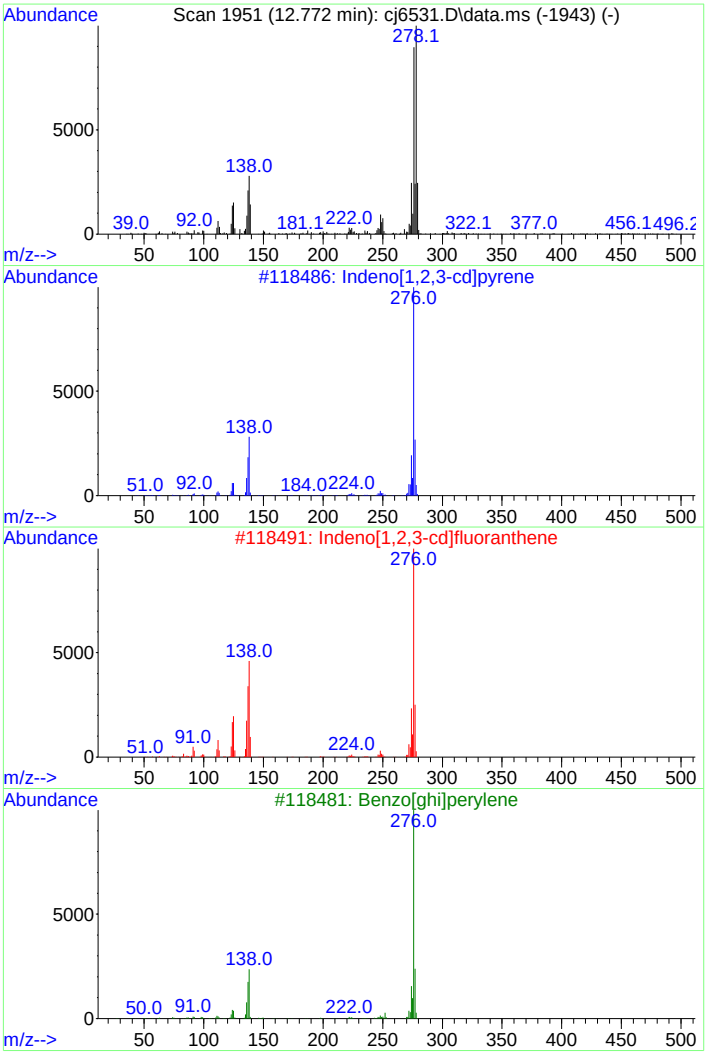
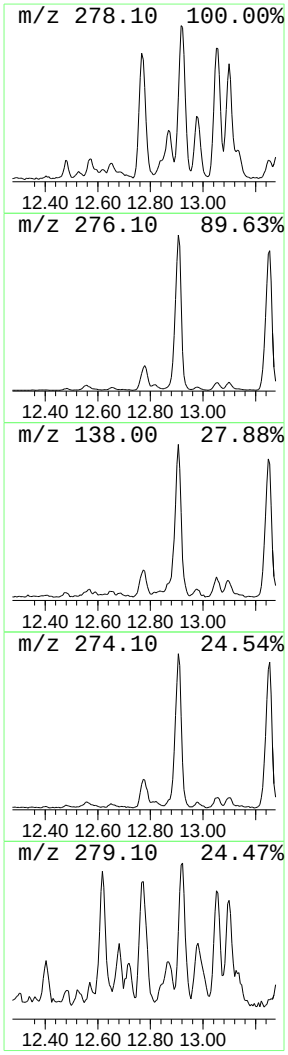
Peak Number 20 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.773	10.56 ppm	734420	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	91
2	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	90
3	Benzo[ghi]perylene	276	C22H12	000191-24-2	55
4	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	55
5	Benzo[ghi]perylene	276	C22H12	000191-24-2	55





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

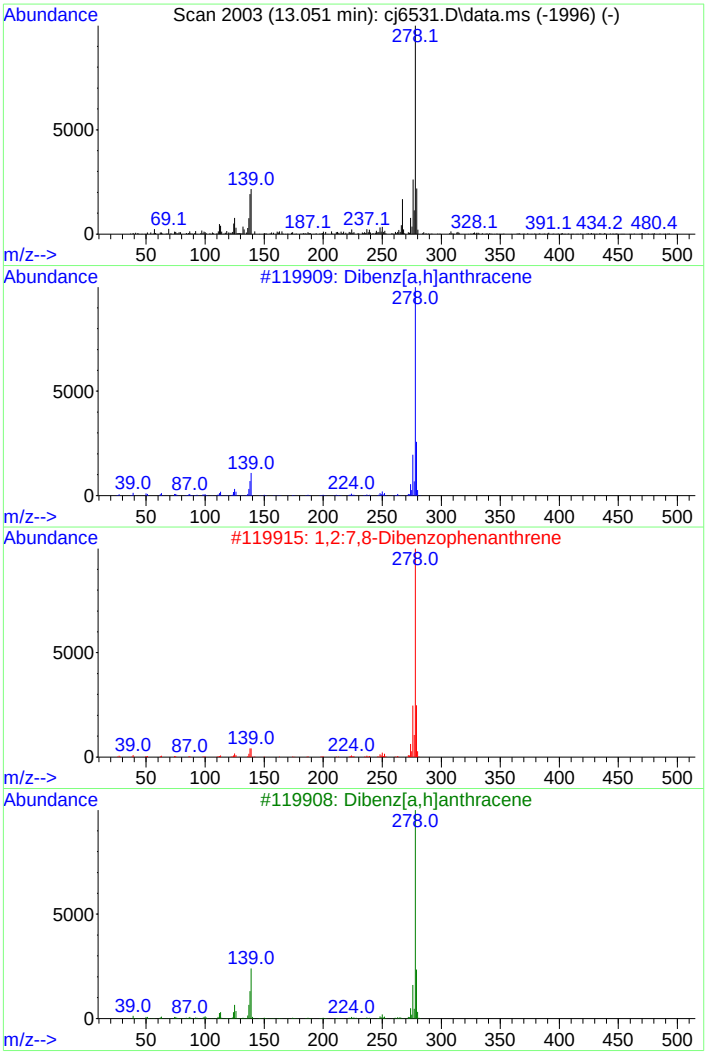
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

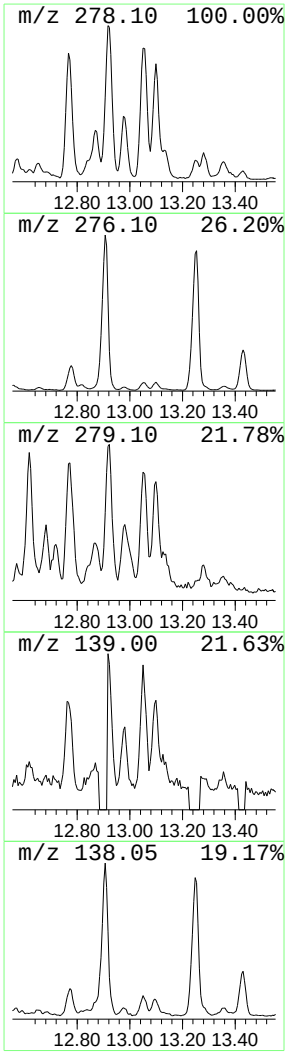
****

Peak Number 21 Unknown Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.051	7.63 ppm	530555	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	96
2	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	93
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	92
4	Naphtho[1,2-a]anthracene	278	C22H14	000195-06-2	90
5	Benzo[b]triphenylene	278	C22H14	000215-58-7	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

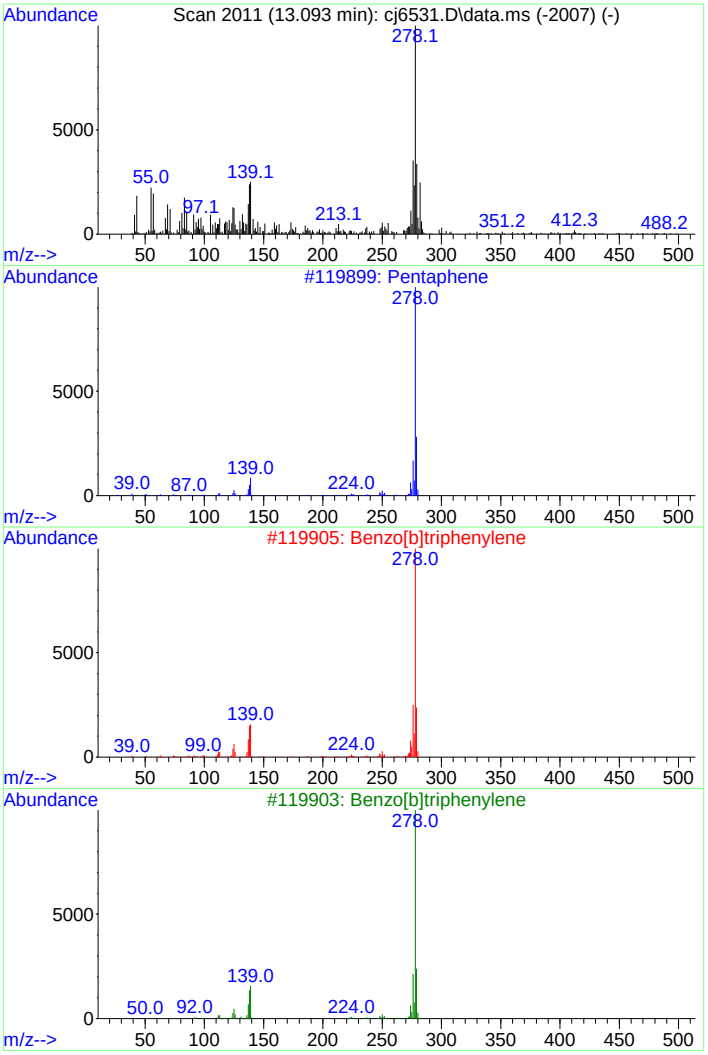
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

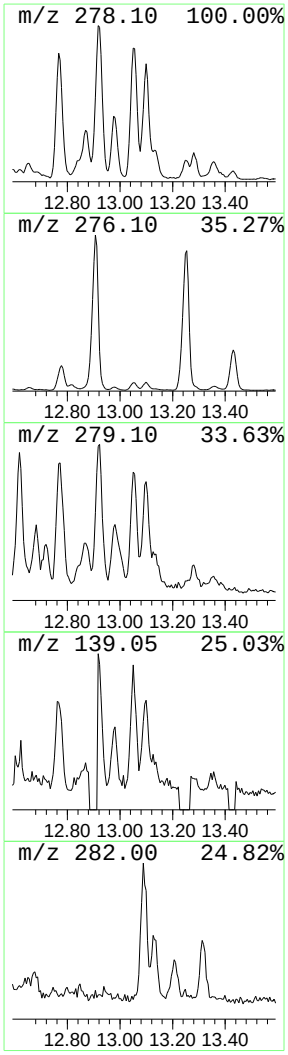
****

Peak Number 22 Unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.093	17.22 ppm	1197040	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentaphene	278	C22H14	000222-93-5	90
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	86
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	83
4	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	70
5	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	70





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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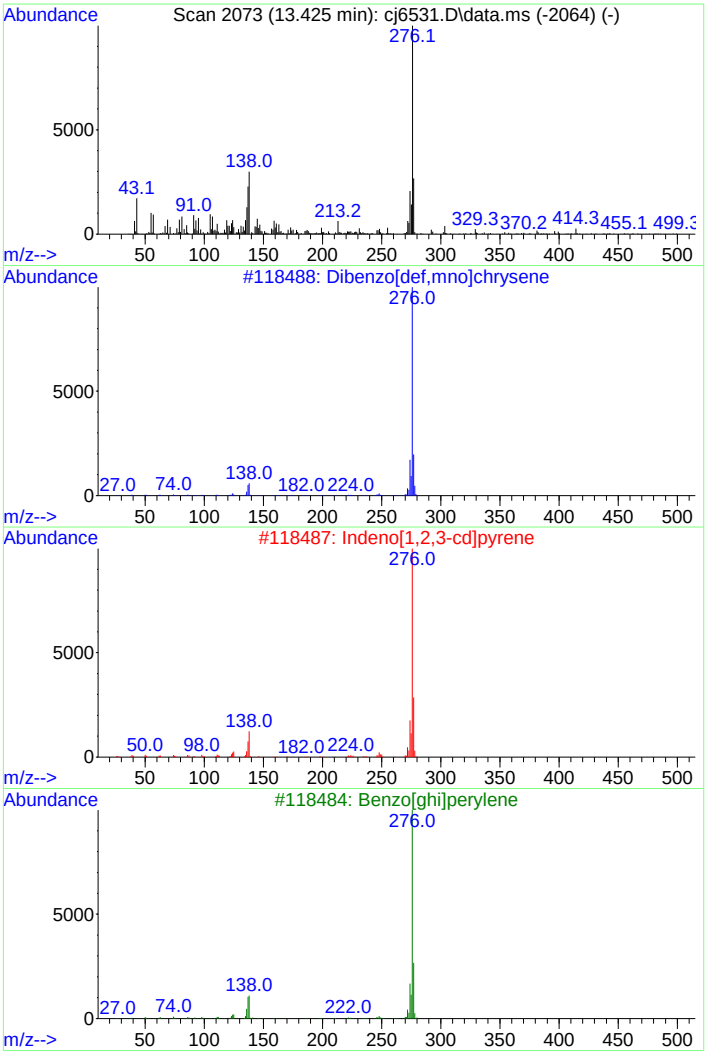
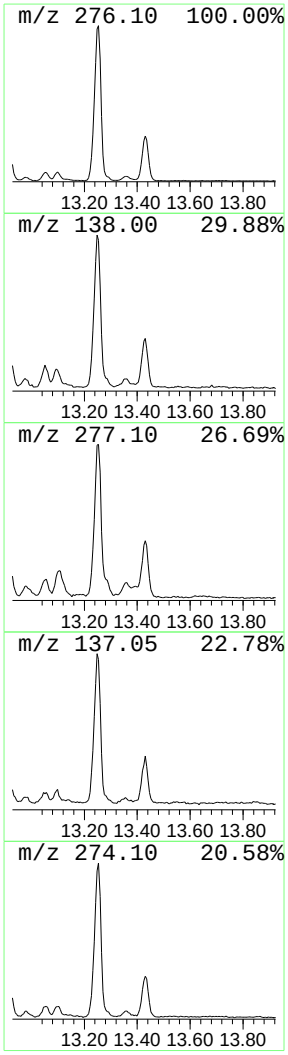
Peak Number 23 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.425	22.25 ppm	1546590	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	96
2	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	91
3	Benzo[ghi]perylene	276	C22H12	000191-24-2	91
4	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	91
5	Benzo[ghi]perylene	276	C22H12	000191-24-2	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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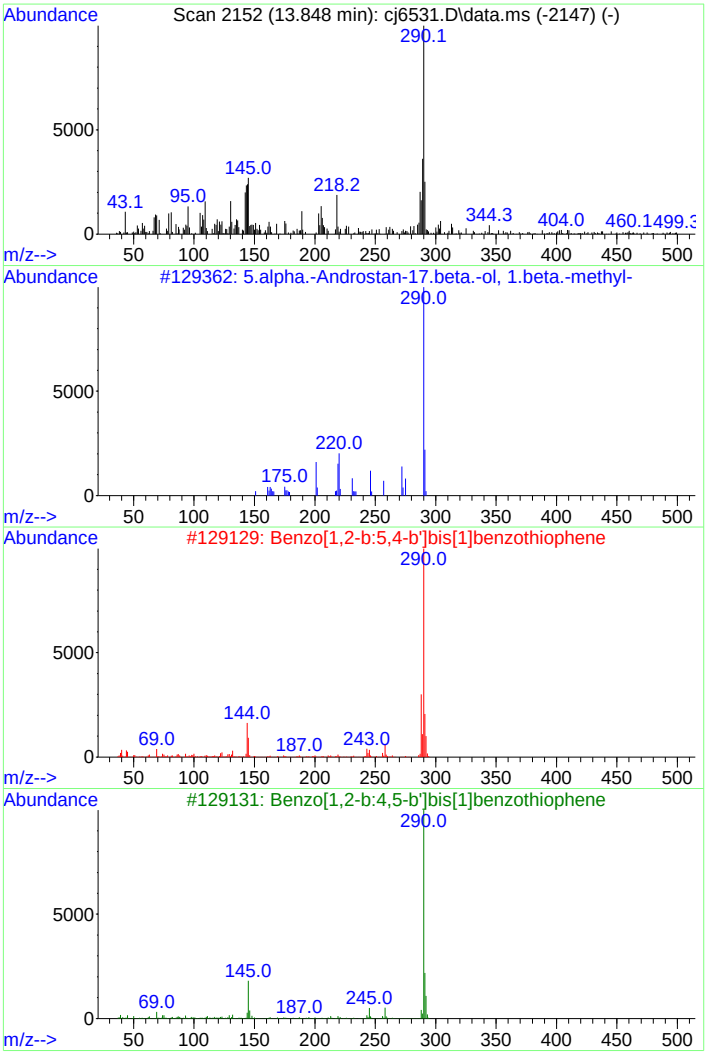
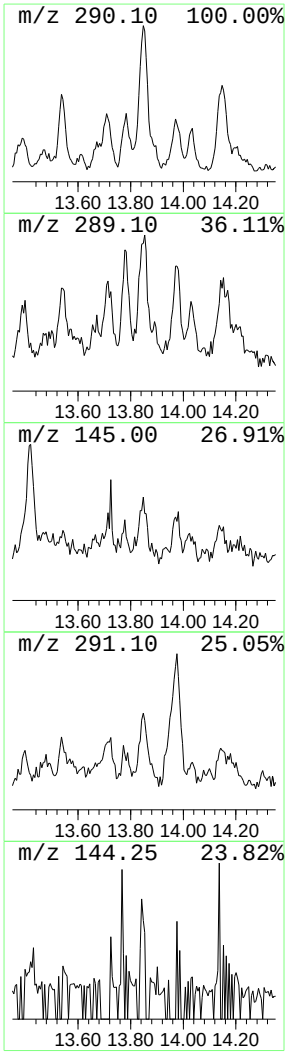
Peak Number 24 Unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.848	6.28 ppm	436599	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5.alpha.-Androstan-17.beta.-ol, ...	290	C20H34O	005846-88-8	52
2	Benzo[1,2-b:5,4-b']bis[1]benzoth...	290	C18H10S2	000241-37-2	47
3	Benzo[1,2-b:4,5-b']bis[1]benzoth...	290	C18H10S2	000241-34-9	46
4	Benzo[ghi]perylene, 4-methyl-	290	C23H14	019224-38-5	46
5	Benzoxazole, 2,2'-(1,2-ethenediy...	290	C18H14N2O2	001041-00-5	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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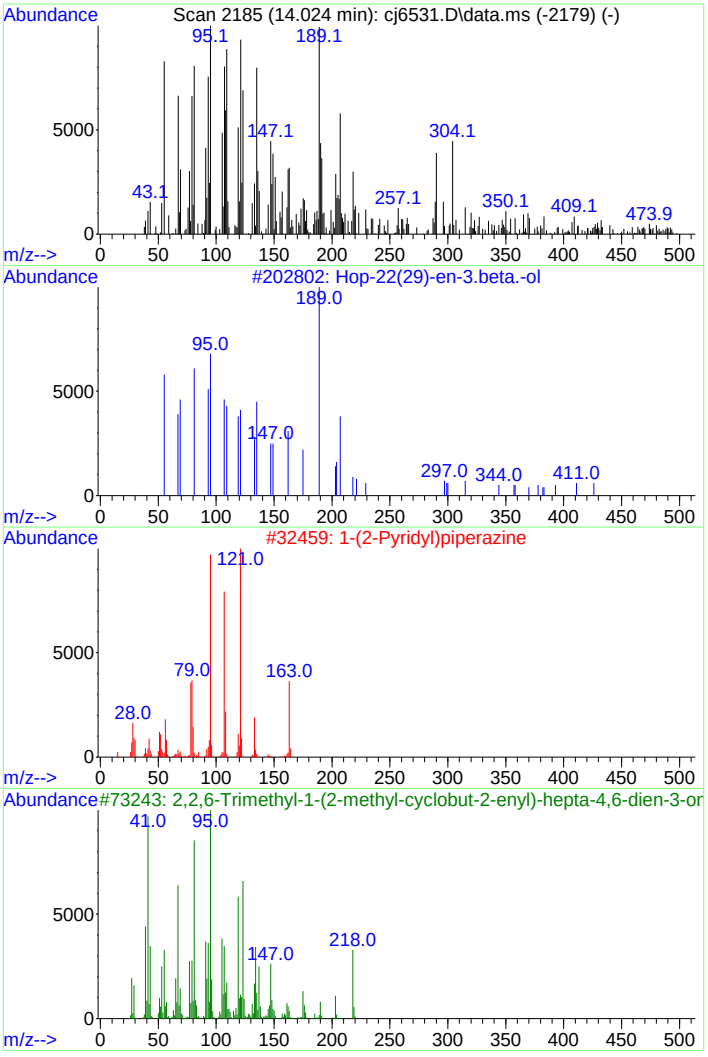
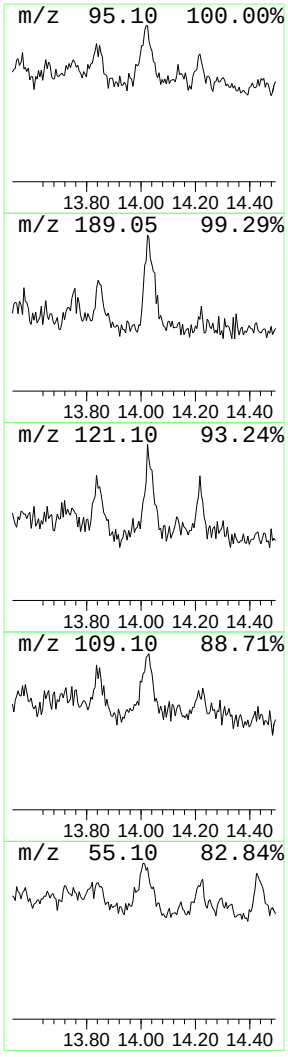
Peak Number 25 Unknown Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.024	7.08 ppm	492127	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hop-22(29)-en-3.beta.-ol	426	C30H50O	058801-23-3	43
2	1-(2-Pyridyl)piperazine	163	C9H13N3	034803-66-2	30
3	2,2,6-Trimethyl-1-(2-methyl-cycl...	218	C15H22O	1000188-72-8	25
4	Lupan-3-ol, acetate	470	C32H54O2	003418-94-8	25
5	1,5-Cycloundecadiene, 9-(1-methy...	190	C14H22	062338-55-0	18





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6531.D
Acq On : 09 May 2024 10:03 pm
Operator : rocquans
Sample : jd87833-5
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.247	7.9	ppm	424814	2	4.664	2151800	40.0
Sulfur	6.889	10.2	ppm	784612	5	6.659	3091760	40.0
Anthracene, methyl	8.322	5.7	ppm	493374	8	7.873	3473330	40.0
4H-Cyclopenta[d...	8.424	16.6	ppm	1439000	8	7.873	3473330	40.0
Naphthalene, ph...	8.600	7.7	ppm	665732	8	7.873	3473330	40.0
Unknown	8.911	6.4	ppm	558262	8	7.873	3473330	40.0
Unknown	9.119	6.0	ppm	522348	8	7.873	3473330	40.0
Pyrene, methyl	9.520	7.8	ppm	1380650	9	10.371	7064420	40.0
Unknown	11.050	8.8	ppm	608643	11	11.719	2780960	40.0
Unknown	11.114	7.7	ppm	534347	11	11.719	2780960	40.0
Unknown	11.211	10.4	ppm	721837	11	11.719	2780960	40.0
Unknown PHA Sub...	11.446	11.4	ppm	795373	11	11.719	2780960	40.0
Unknown	11.521	17.7	ppm	1229110	11	11.719	2780960	40.0
Unknown PHA Sub...	11.612	28.9	ppm	2006190	11	11.719	2780960	40.0
Unknown	11.874	6.9	ppm	477408	11	11.719	2780960	40.0
Unknown	12.008	12.5	ppm	866558	11	11.719	2780960	40.0
Alkane	12.211	7.2	ppm	499101	11	11.719	2780960	40.0
Unknown	12.243	6.4	ppm	441978	11	11.719	2780960	40.0
Unknown	12.676	6.8	ppm	475304	11	11.719	2780960	40.0
Unknown	12.773	10.6	ppm	734420	11	11.719	2780960	40.0
Unknown	13.051	7.6	ppm	530555	11	11.719	2780960	40.0
Unknown	13.093	17.2	ppm	1197040	11	11.719	2780960	40.0
Unknown	13.425	22.3	ppm	1546590	11	11.719	2780960	40.0
Unknown	13.848	6.3	ppm	436599	11	11.719	2780960	40.0
Unknown	14.024	7.1	ppm	492127	11	11.719	2780960	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Ying Li
05/13/24 16:14

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj302\
Data File : cj6680.D
Acq On : 13 May 2024 10:04 am
Operator : kaleigh
Sample : jd87833-5 Inst : GCMSCJ
Misc : op54460,ecj302,30.4,,,1,5
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 17:28:09 2024
Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Mon May 13 16:52:36 2024
Response via : Initial Calibration

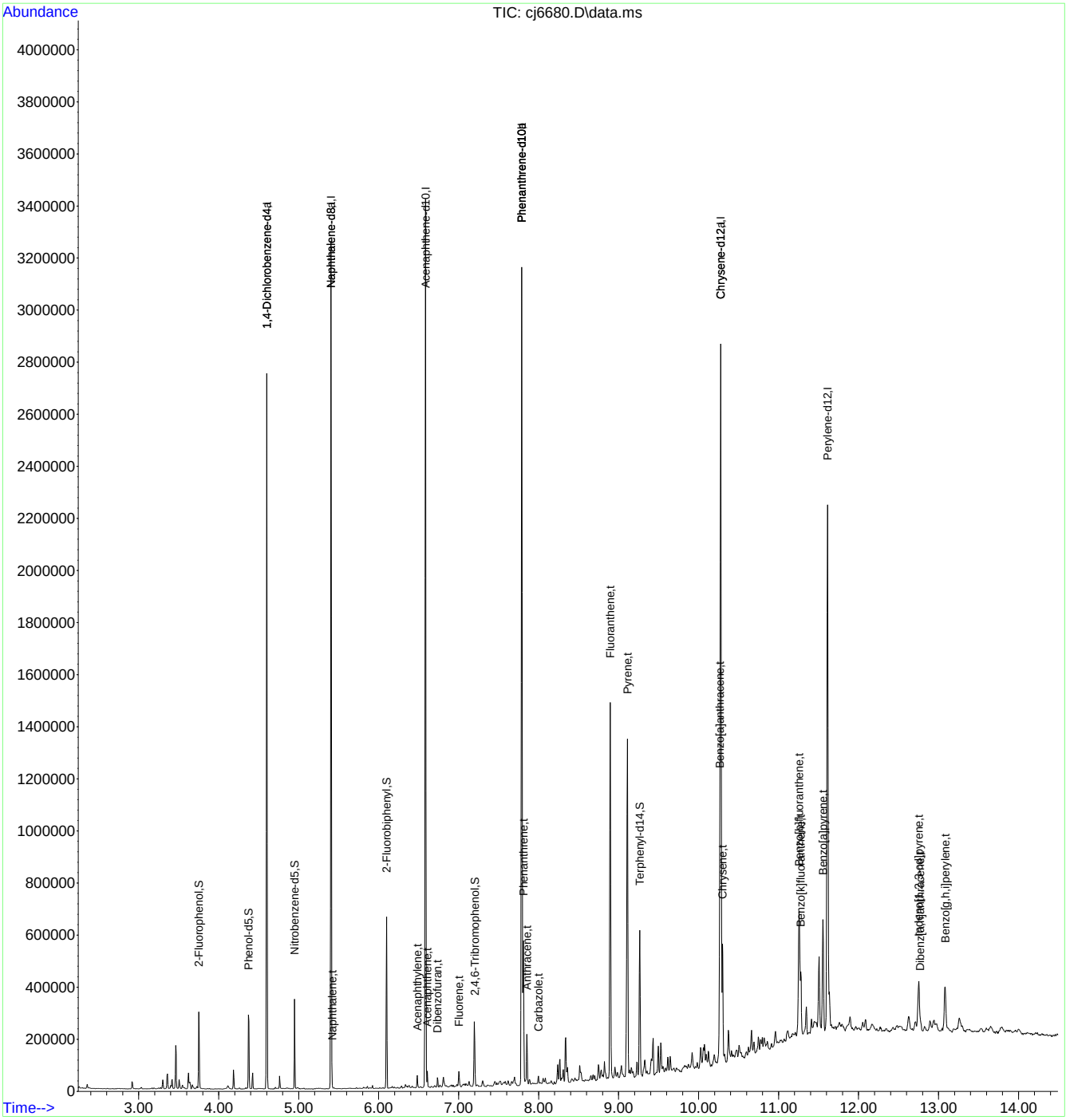
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.601	152	253902	40.00	ppm	0.00
24) Naphthalene-d8	5.403	136	891714	40.00	ppm	0.00
46) Acenaphthene-d10	6.585	164	515076	40.00	ppm	0.00
69) Phenanthrene-d10	7.789	188	942003	40.00	ppm	0.00
84) Chrysene-d12	10.276	240	719748	40.00	ppm	0.00
93) Perylene-d12	11.613	264	698307	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.601	152	253902	40.00	ppm	0.00
105) Phenanthrene-d10a	7.789	188	942003	40.00	ppm	0.00
107) Naphthalene-d8a	5.403	136	891714	40.00	ppm	0.00
109) Phenanthrene-d10b	7.789	188	942003	40.00	ppm	0.00
112) Chrysene-d12a	10.276	240	719748	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.751	112	51978	7.12	ppm	0.00
Spiked Amount 50.000			Recovery = 14.24%			
8) Phenol-d5	4.371	99	69270	7.36	ppm	0.00
Spiked Amount 50.000			Recovery = 14.72%			
25) Nitrobenzene-d5	4.949	82	66956	7.33	ppm	0.00
Spiked Amount 50.000			Recovery = 14.66%			
51) 2-Fluorobiphenyl	6.099	172	132300	8.16	ppm	0.00
Spiked Amount 50.000			Recovery = 16.32%			
74) 2,4,6-Tribromophenol	7.201	330	19568	9.47	ppm	0.00
Spiked Amount 50.000			Recovery = 18.94%			
87) Terphenyl-d14	9.265	244	152170	8.56	ppm	0.00
Spiked Amount 50.000			Recovery = 17.12%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
38) Naphthalene	5.419	128	3514	0.1645	ppm	96
56) Acenaphthylene	6.484	152	15970	0.7994	ppm	97
59) Acenaphthene	6.607	153	10697	0.7529	ppm	98
62) Dibenzofuran	6.735	168	9179	0.4656	ppm	98
66) Fluorene	7.003	166	12175m	0.7817	ppm	
78) Phenanthrene	7.810	178	160439	7.0474	ppm	99
79) Anthracene	7.853	178	60127	2.6377	ppm	97
80) Carbazole	7.998	167	7987	0.3760	ppm	98
82) Fluoranthene	8.896	202	494976	20.0832	ppm	99
86) Pyrene	9.110	202	455112	18.5930	ppm	97
89) Benzo[a]anthracene	10.265	228	212223	9.1706	ppm	98
91) Chrysene	10.297	228	170721	7.9959	ppm	97
95) Benzo[b]fluoranthene	11.255	252	225536m	10.6915	ppm	
96) Benzo[k]fluoranthene	11.276	252	72713m	3.8307	ppm	
97) Benzo[a]pyrene	11.554	252	164032	9.3932	ppm	98
98) Indeno[1,2,3-cd]pyrene	12.753	276	104667	4.9579	ppm	97
100) Dibenz[a,h]anthracene	12.769	278	23931	1.4187	ppm	94
102) Benzo[g,h,i]perylene	13.084	276	98083	5.9786	ppm	99

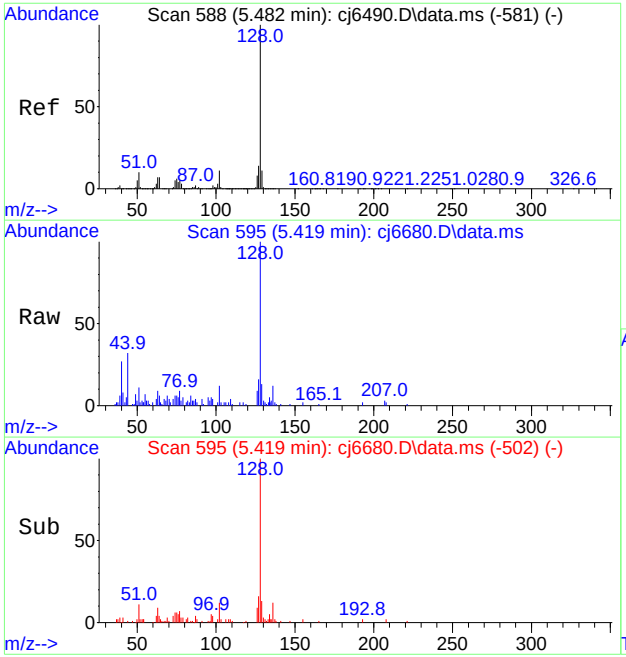
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj302\
Data File : cj6680.D
Acq On : 13 May 2024 10:04 am
Operator : kaleigh
Sample : jd87833-5 Inst : GCMSCJ
Misc : op54460,ecj302,30.4,,,1,5
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 17:28:09 2024
Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Mon May 13 16:52:36 2024
Response via : Initial Calibration

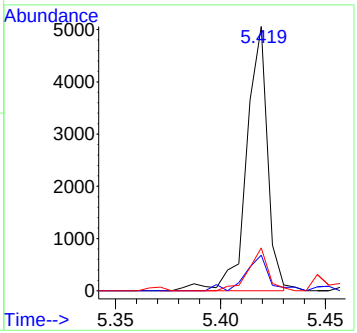


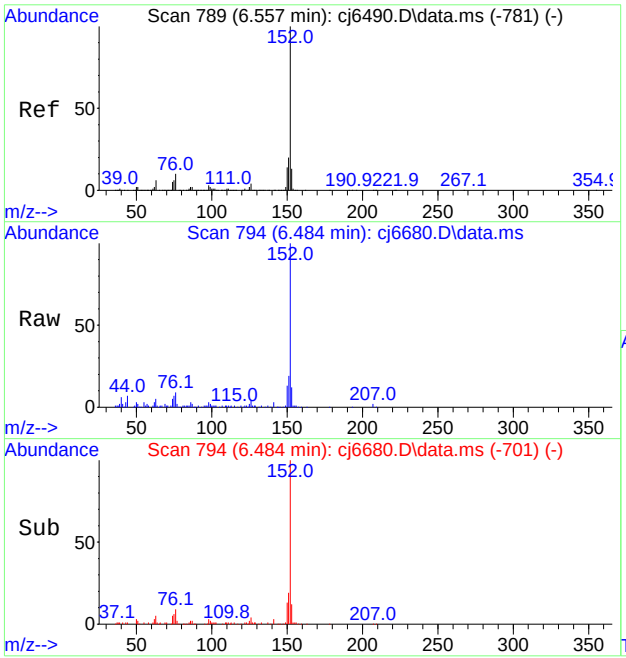


#38
Naphthalene
Concen: 0.1645 ppm
RT: 5.419 min Scan# 595
Delta R.T. -0.000 min
Lab File: cj6680.D
Acq: 13 May 2024 10:04 am

Tgt Ion:128 Resp: 3514

Ion	Ratio	Lower	Upper
128	100		
129	13.0	0.0	41.4
127	15.1	0.0	43.4

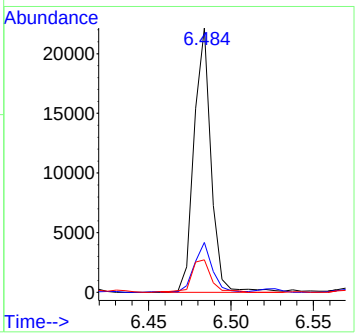


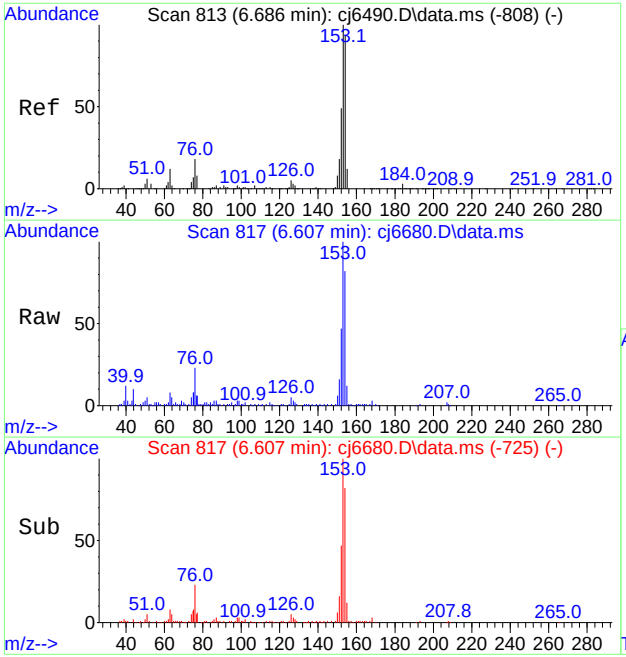


#56
Acenaphthylene
Concen: 0.7994 ppm
RT: 6.484 min Scan# 794
Delta R.T. -0.000 min
Lab File: cj6680.D
Acq: 13 May 2024 10:04 am

Tgt Ion:152 Resp: 15970

Ion	Ratio	Lower	Upper
152	100		
151	18.6	0.0	50.2
153	12.2	0.0	43.2

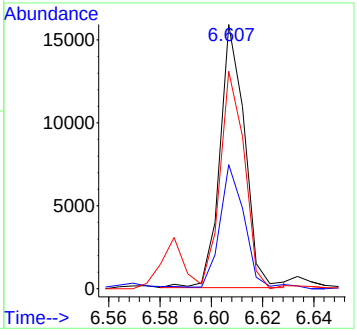


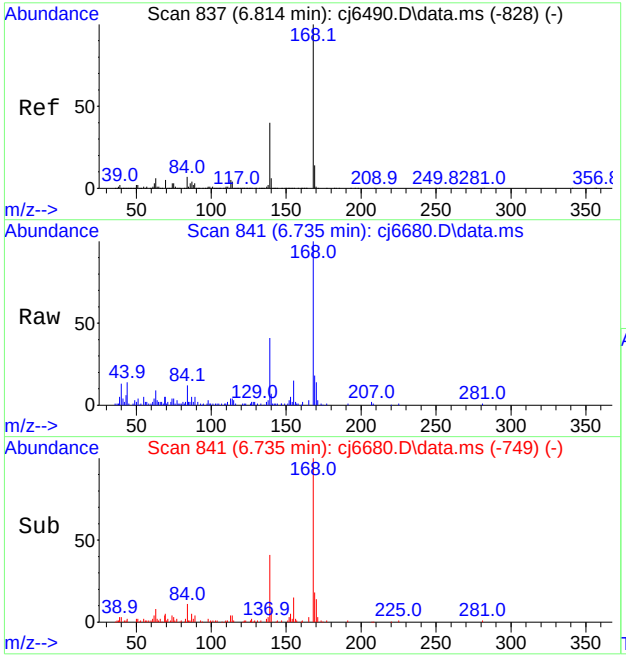


#59
Acenaphthene
Concen: 0.7529 ppm
RT: 6.607 min Scan# 817
Delta R.T. -0.006 min
Lab File: cj6680.D
Acq: 13 May 2024 10:04 am

Tgt Ion:153 Resp: 10697

Ion	Ratio	Lower	Upper
153	100		
152	46.4	16.8	76.8
154	78.3	50.5	110.5

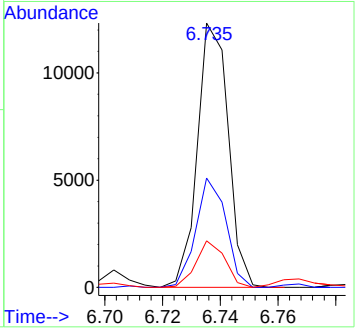


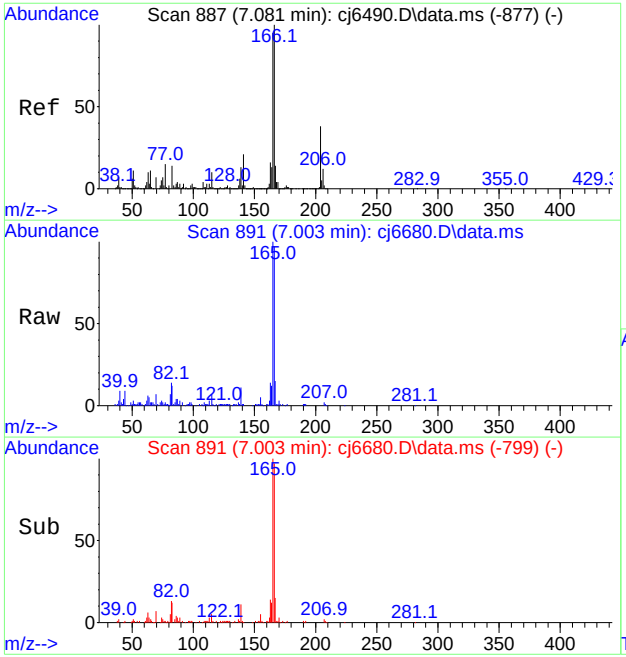


#62
Dibenzofuran
Concen: 0.4656 ppm
RT: 6.735 min Scan# 841
Delta R.T. -0.006 min
Lab File: cj6680.D
Acq: 13 May 2024 10:04 am

Tgt Ion:168 Resp: 9179

Ion	Ratio	Lower	Upper
168	100		
139	41.0	10.6	70.6
169	16.1	0.0	43.4

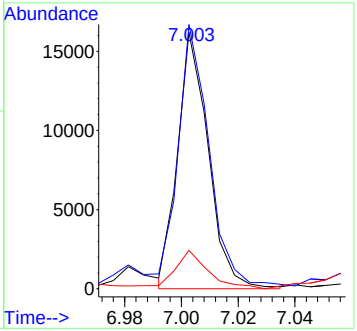


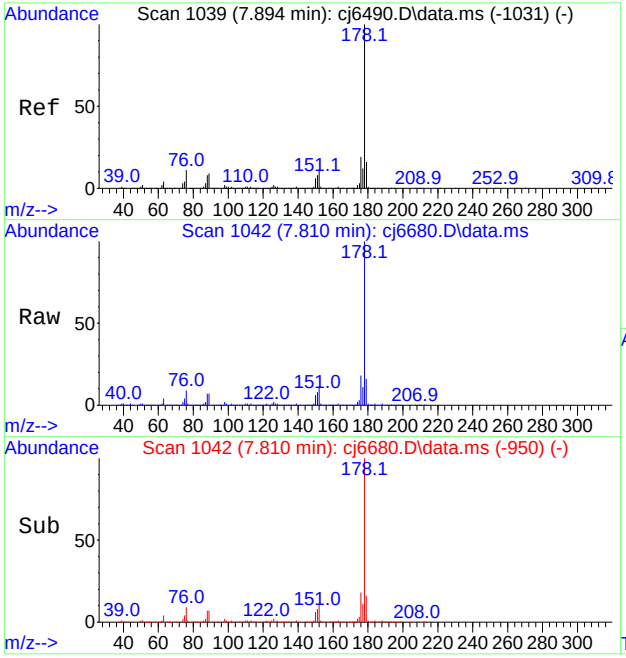


#66
Fluorene
Concen: 0.7817 ppm m
RT: 7.003 min Scan# 891
Delta R.T. -0.006 min
Lab File: cj6680.D
Acq: 13 May 2024 10:04 am

Tgt Ion:166 Resp: 12175

Ion	Ratio	Lower	Upper
166	100		
165	103.1	67.8	127.8
167	15.0	0.0	43.6

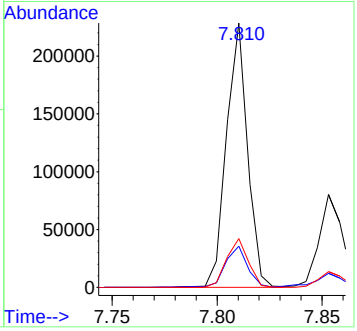


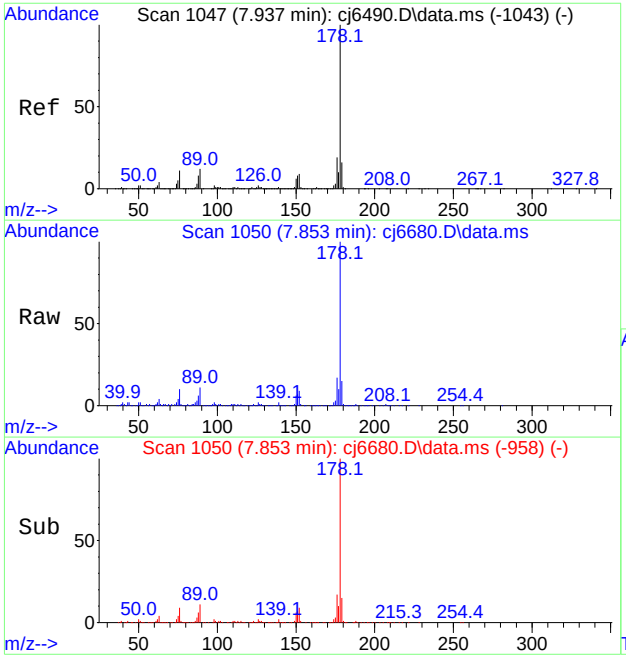


#78
Phenanthrene
Concen: 7.0474 ppm
RT: 7.810 min Scan# 1042
Delta R.T. -0.006 min
Lab File: cj6680.D
Acq: 13 May 2024 10:04 am

Tgt Ion:178 Resp: 160439

Ion	Ratio	Lower	Upper
178	100		
179	15.4	0.0	45.3
176	18.4	0.0	48.8

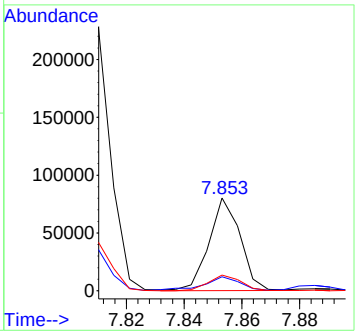


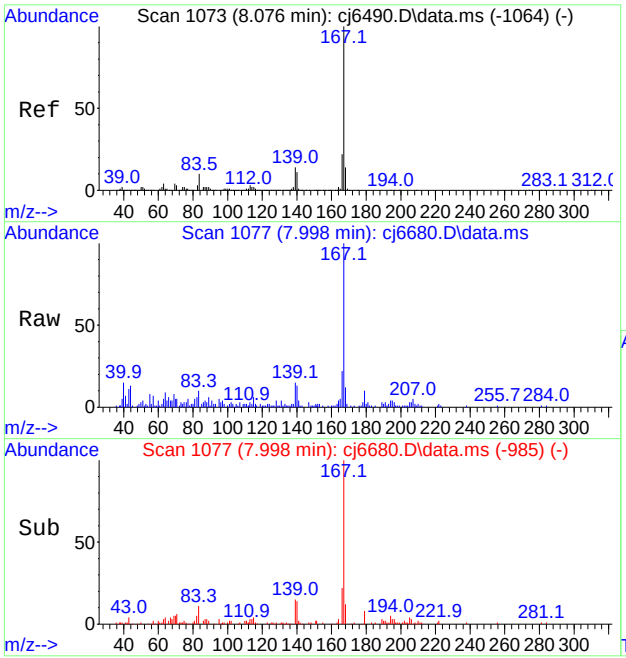


#79
Anthracene
Concen: 2.6377 ppm
RT: 7.853 min Scan# 1050
Delta R.T. -0.006 min
Lab File: cj6680.D
Acq: 13 May 2024 10:04 am

Tgt Ion:178 Resp: 60127

Ion	Ratio	Lower	Upper
178	100		
179	14.3	0.0	45.3
176	16.8	0.0	48.1

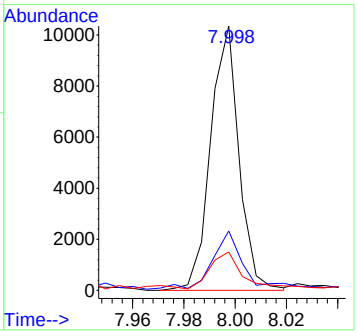


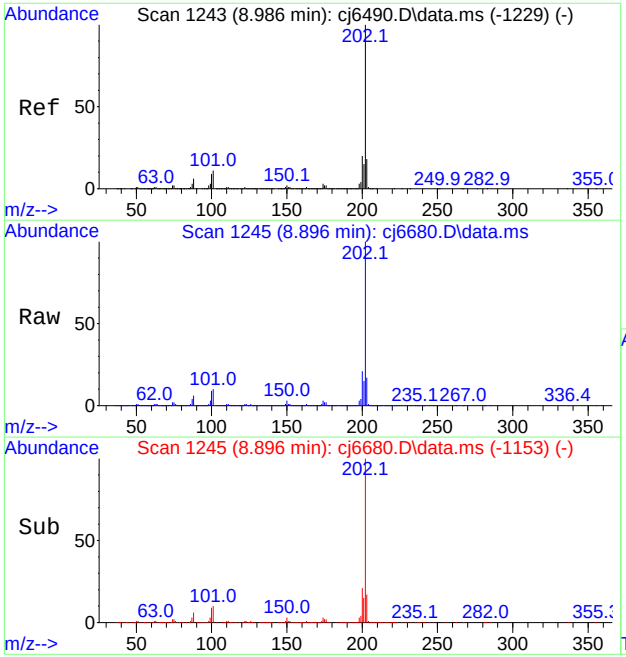


#80
Carbazole
Concen: 0.3760 ppm
RT: 7.998 min Scan# 1077
Delta R.T. -0.006 min
Lab File: cj6680.D
Acq: 13 May 2024 10:04 am

Tgt Ion:167 Resp: 7987

Ion	Ratio	Lower	Upper
167	100		
166	20.8	0.0	51.6
139	12.8	0.0	43.3

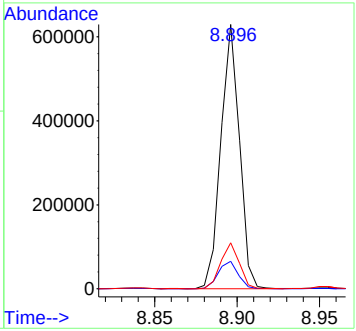


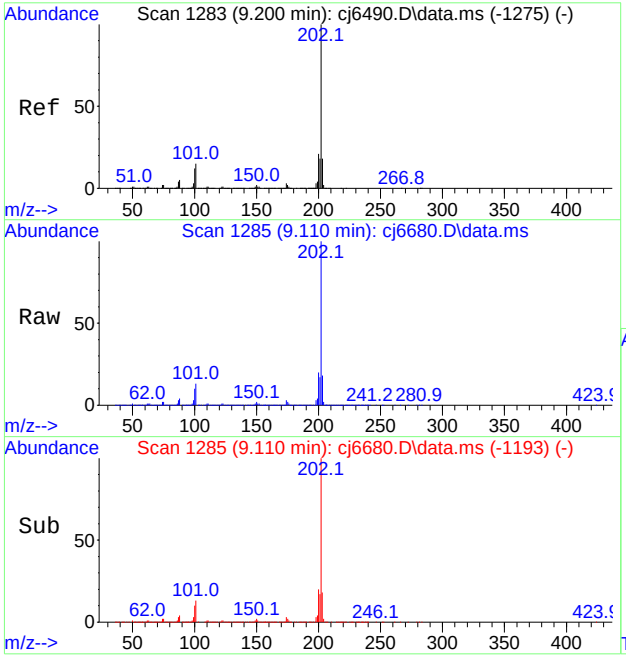


#82
Fluoranthene
Concen: 20.0832 ppm
RT: 8.896 min Scan# 1245
Delta R.T. -0.006 min
Lab File: cj6680.D
Acq: 13 May 2024 10:04 am

Tgt Ion:202 Resp: 494976

Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	40.6
203	17.4	0.0	48.2

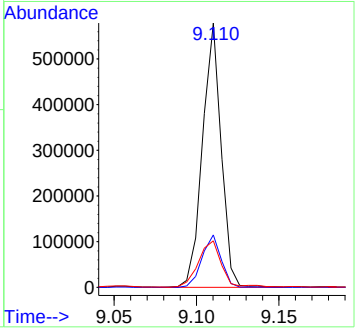


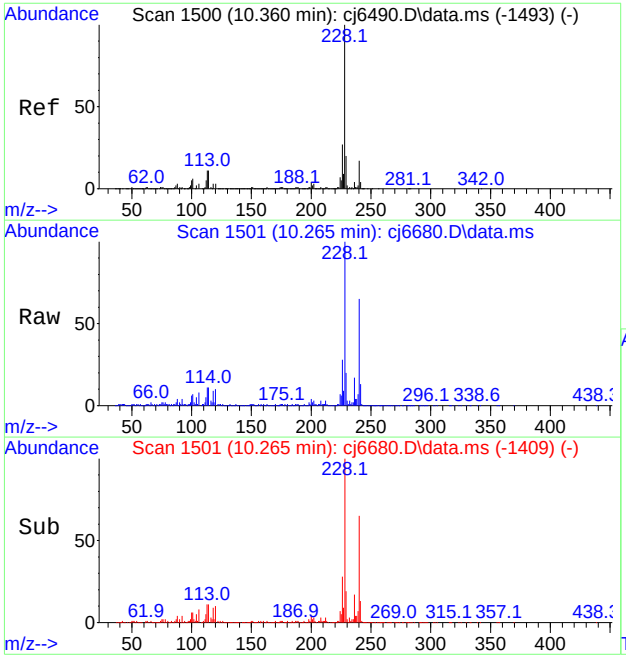


#86
Pyrene
Concen: 18.5930 ppm
RT: 9.110 min Scan# 1285
Delta R.T. -0.006 min
Lab File: cj6680.D
Acq: 13 May 2024 10:04 am

Tgt Ion:202 Resp: 455112

Ion	Ratio	Lower	Upper
202	100		
200	19.9	0.0	51.6
203	17.5	0.0	48.0

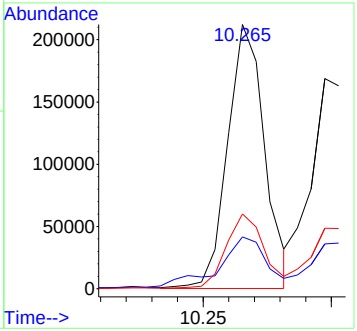


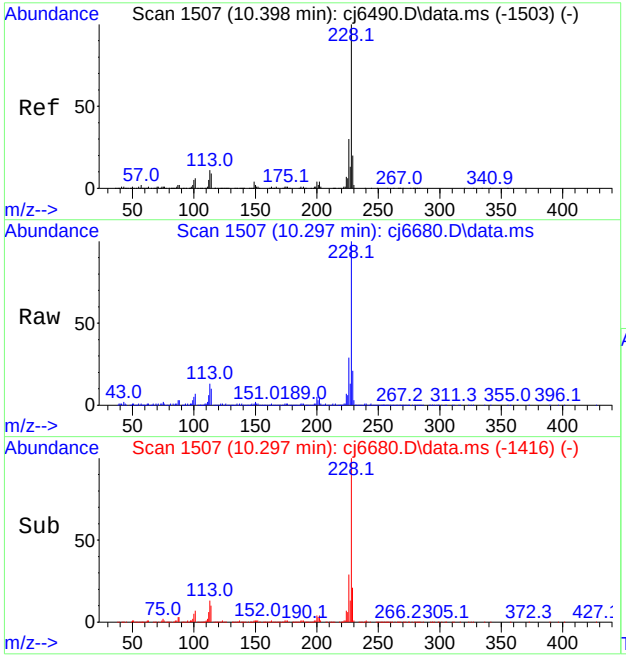


#89
Benzo[a]anthracene
Concen: 9.1706 ppm
RT: 10.265 min Scan# 1501
Delta R.T. -0.006 min
Lab File: cj6680.D
Acq: 13 May 2024 10:04 am

Tgt Ion:228 Resp: 212223

Ion	Ratio	Lower	Upper
228	100		
229	18.5	0.0	49.8
226	28.1	0.0	56.9

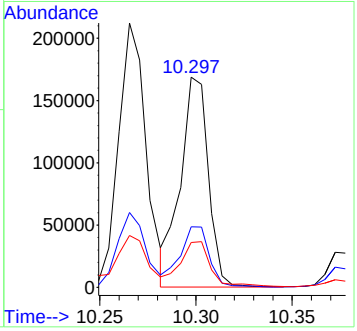


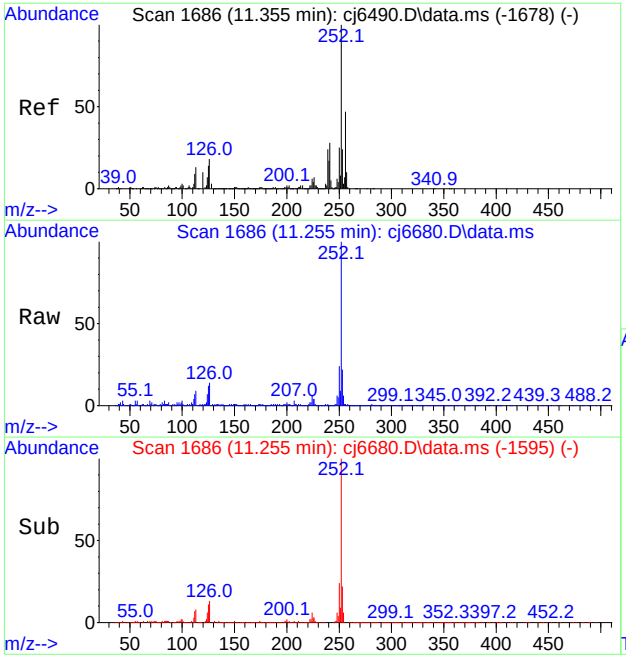


#91
Chrysene
Concen: 7.9959 ppm
RT: 10.297 min Scan# 1507
Delta R.T. -0.011 min
Lab File: cj6680.D
Acq: 13 May 2024 10:04 am

Tgt Ion:228 Resp: 170721

Ion	Ratio	Lower	Upper
228	100		
226	28.4	0.1	60.1
229	20.5	0.0	49.6

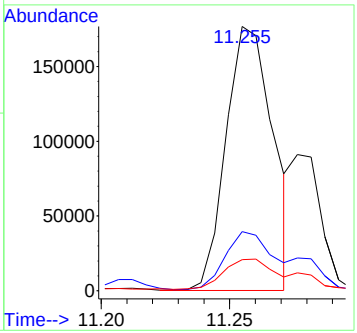


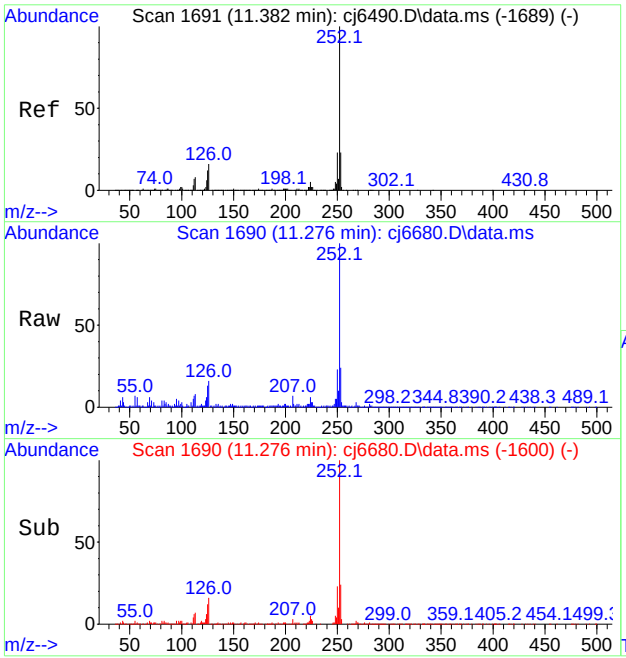


#95
Benzo[b]fluoranthene
Concen: 10.6915 ppm m
RT: 11.255 min Scan# 1686
Delta R.T. -0.011 min
Lab File: cj6680.D
Acq: 13 May 2024 10:04 am

Tgt Ion:252 Resp: 225536

Ion	Ratio	Lower	Upper
252	100		
253	22.4	0.0	52.9
125	11.8	0.0	39.9

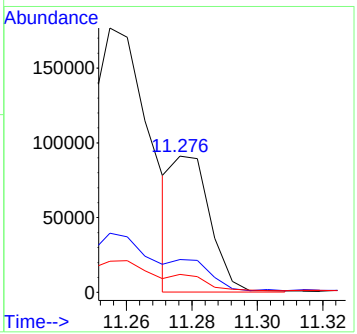


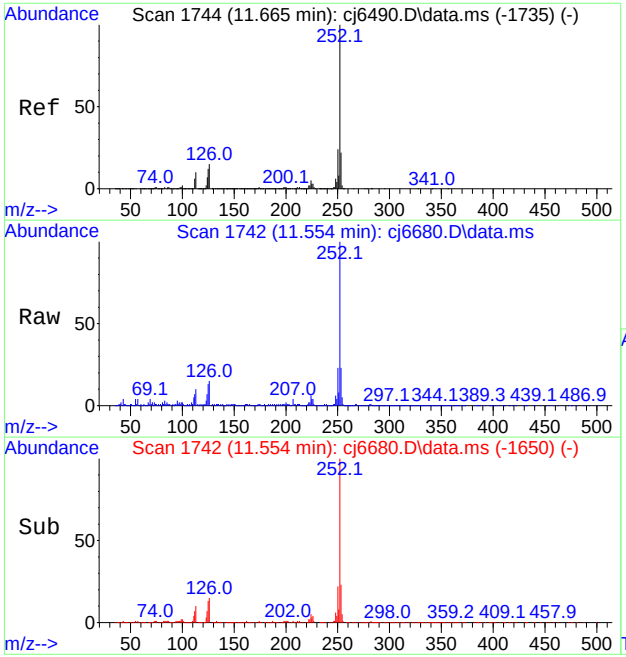


#96
Benzo[k]fluoranthene
Concen: 3.8307 ppm m
RT: 11.276 min Scan# 1690
Delta R.T. -0.016 min
Lab File: cj6680.D
Acq: 13 May 2024 10:04 am

Tgt Ion:252 Resp: 72713

Ion	Ratio	Lower	Upper
252	100		
253	24.1	0.0	52.1
125	13.2	0.0	39.2

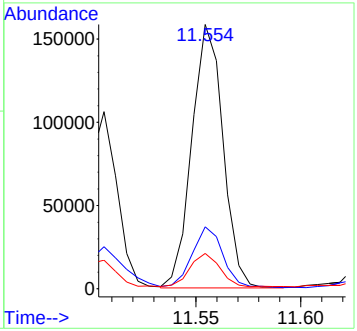


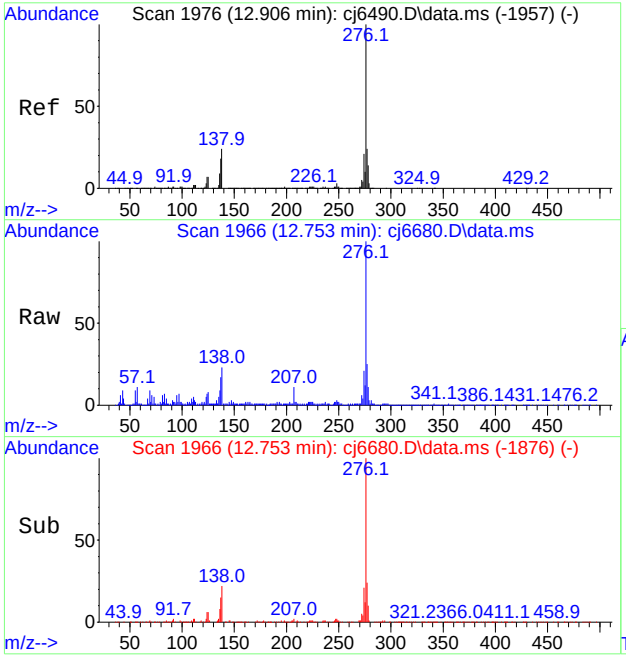


#97
Benzo[a]pyrene
Concen: 9.3932 ppm
RT: 11.554 min Scan# 1742
Delta R.T. -0.006 min
Lab File: cj6680.D
Acq: 13 May 2024 10:04 am

Tgt Ion:252 Resp: 164032

Ion	Ratio	Lower	Upper
252	100		
253	22.9	0.0	51.8
125	12.6	0.0	42.3

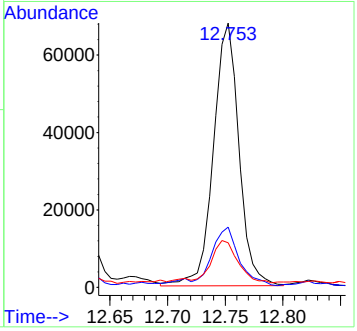


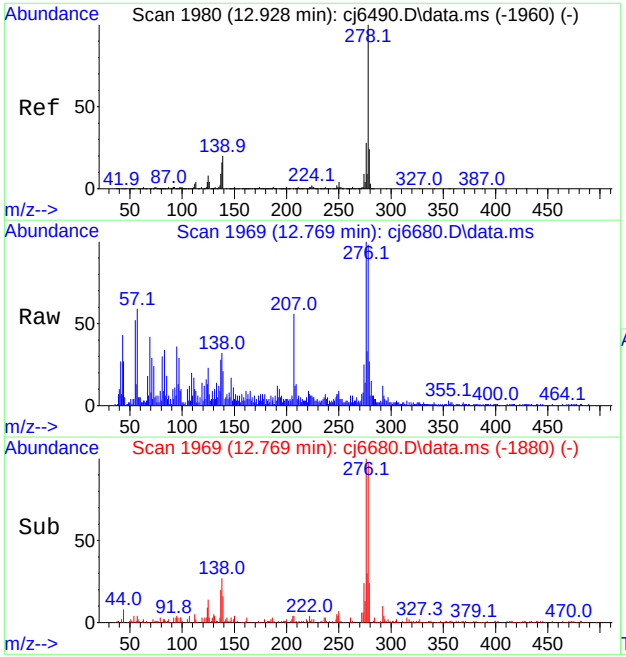


#98
Indeno[1,2,3-cd]pyrene
Concen: 4.9579 ppm
RT: 12.753 min Scan# 1966
Delta R.T. -0.016 min
Lab File: cj6680.D
Acq: 13 May 2024 10:04 am

Tgt Ion:276 Resp: 104667

Ion	Ratio	Lower	Upper
276	100		
138	21.9	0.0	52.4
137	14.7	0.0	46.6

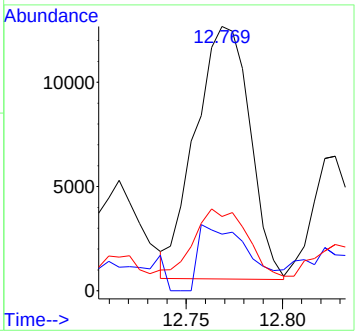


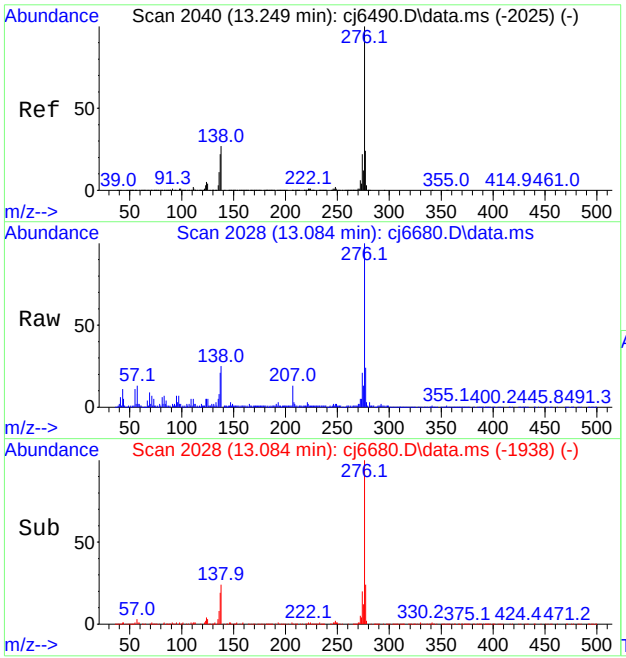


#100
Dibenz[a,h]anthracene
Concen: 1.4187 ppm
RT: 12.769 min Scan# 1969
Delta R.T. -0.022 min
Lab File: cj6680.D
Acq: 13 May 2024 10:04 am

Tgt Ion:278 Resp: 23931

Ion	Ratio	Lower	Upper
278	100		
139	11.9	0.0	47.4
279	23.8	0.0	53.2

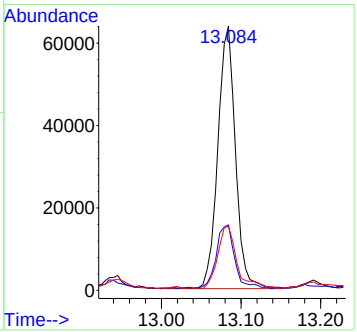




#102
Benzo[g,h,i]perylene
Concen: 5.9786 ppm
RT: 13.084 min Scan# 2028
Delta R.T. -0.016 min
Lab File: cj6680.D
Acq: 13 May 2024 10:04 am

Tgt Ion:276 Resp: 98083

Ion	Ratio	Lower	Upper
276	100		
138	24.1	0.0	53.6
277	23.5	0.0	53.9



Manual Integrations APPROVED (compounds with "m" flag)
Jacky Takeuchi 05/10/24 22:07

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6 Inst : GCMSCJ
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 10 19:13:12 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

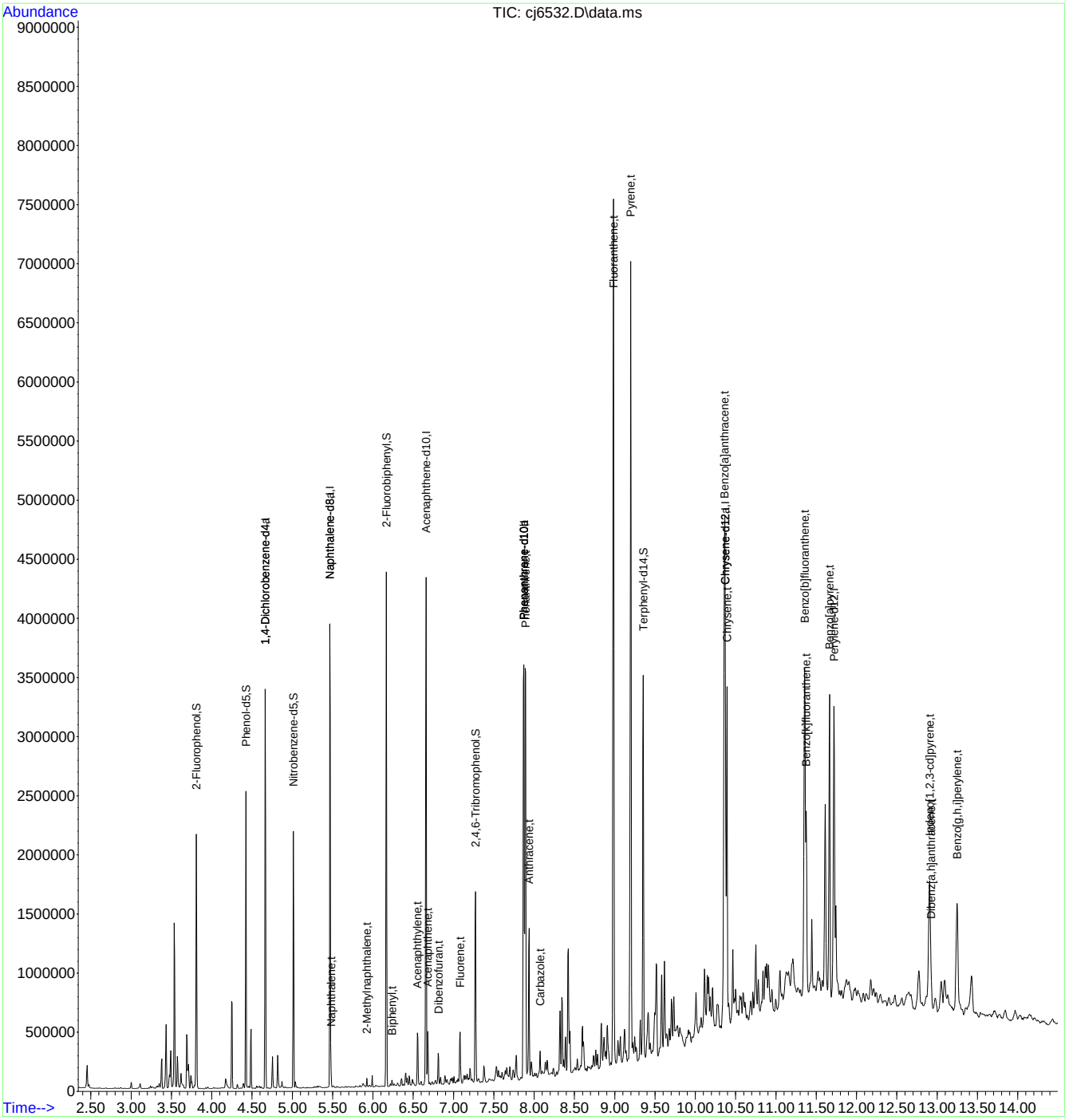
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.664	152	342593	40.00	ppm	0.00
24) Naphthalene-d8	5.466	136	1228725	40.00	ppm	0.00
46) Acenaphthene-d10	6.659	164	681462	40.00	ppm	0.00
69) Phenanthrene-d10	7.873	188	1201770	40.00	ppm	0.00
84) Chrysene-d12	10.371	240	855342	40.00	ppm	0.00
93) Perylene-d12	11.719	264	877926	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.664	152	342593	40.00	ppm	0.00
105) Phenanthrene-d10a	7.873	188	1201770	40.00	ppm	0.00
107) Naphthalene-d8a	5.466	136	1228725	40.00	ppm	0.00
109) Phenanthrene-d10b	7.873	188	1201770	40.00	ppm	0.00
112) Chrysene-d12a	10.371	240	855342	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.808	112	352700	35.82	ppm	0.01
Spiked Amount 50.000			Recovery = 71.64%			
8) Phenol-d5	4.423	99	483618	38.08	ppm	0.00
Spiked Amount 50.000			Recovery = 76.16%			
25) Nitrobenzene-d5	5.011	82	458876	36.47	ppm	0.00
Spiked Amount 50.000			Recovery = 72.94%			
51) 2-Fluorobiphenyl	6.167	172	860341	40.12	ppm	0.00
Spiked Amount 50.000			Recovery = 80.24%			
74) 2,4,6-Tribromophenol	7.274	330	122302	46.42	ppm	0.00
Spiked Amount 50.000			Recovery = 92.84%			
87) Terphenyl-d14	9.354	244	885886	41.92	ppm	0.00
Spiked Amount 50.000			Recovery = 83.84%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
38) Naphthalene	5.482	128	32396	1.1007	ppm	98
44) 2-Methylnaphthalene	5.926	141	12012	0.6883	ppm	91
53) Biphenyl	6.236	154	10221	0.4365	ppm	99
56) Acenaphthylene	6.552	152	161794	6.1214	ppm	98
59) Acenaphthene	6.680	153	80898	4.3039	ppm	98
62) Dibenzofuran	6.814	168	67572	2.5906	ppm	99
66) Fluorene	7.081	166	111774	5.4245	ppm	99
78) Phenanthrene	7.894	178	1174901	40.4532	ppm	99
79) Anthracene	7.937	178	428469	14.7335	ppm	97
80) Carbazole	8.076	167	75950	2.8027	ppm	95
82) Fluoranthene	8.985	202	2630878	83.6719	ppm	99
86) Pyrene	9.199	202	2403062	82.6109	ppm	99
89) Benzo[a]anthracene	10.360	228	1192712	43.3691	ppm	97
91) Chrysene	10.392	228	909865	35.8589	ppm	97
95) Benzo[b]fluoranthene	11.355	252	1314206m	49.5535	ppm	
96) Benzo[k]fluoranthene	11.376	252	376082m	15.7591	ppm	
97) Benzo[a]pyrene	11.665	252	950113	43.2761	ppm	98
98) Indeno[1,2,3-cd]pyrene	12.906	276	601909	22.6782	ppm	99
100) Dibenz[a,h]anthracene	12.922	278	146194	6.8935	ppm	92
102) Benzo[g,h,i]perylene	13.248	276	562582	27.2760	ppm	99

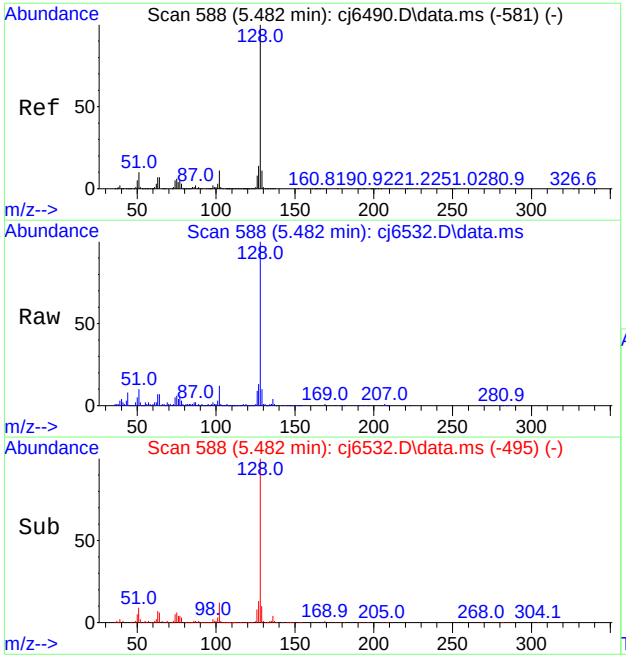
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6 Inst : GCMSCJ
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 10 19:13:12 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

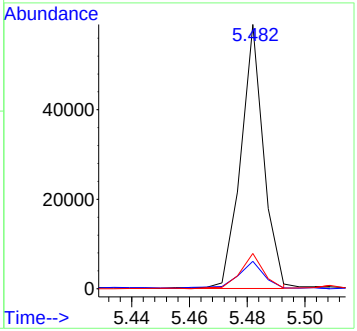


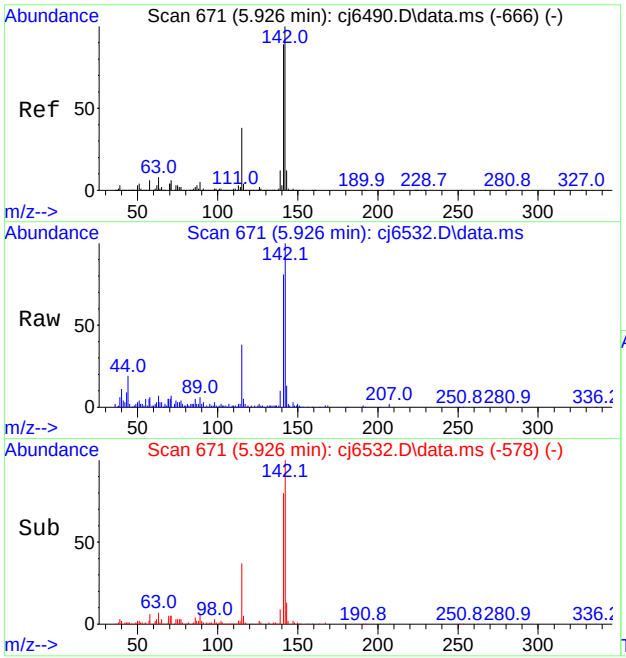


#38
Naphthalene
Concen: 1.1007 ppm
RT: 5.482 min Scan# 588
Delta R.T. -0.000 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:128 Resp: 32396

Ion	Ratio	Lower	Upper
128	100		
129	10.1	0.0	41.4
127	13.3	0.0	43.3

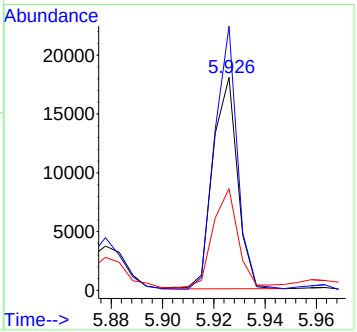


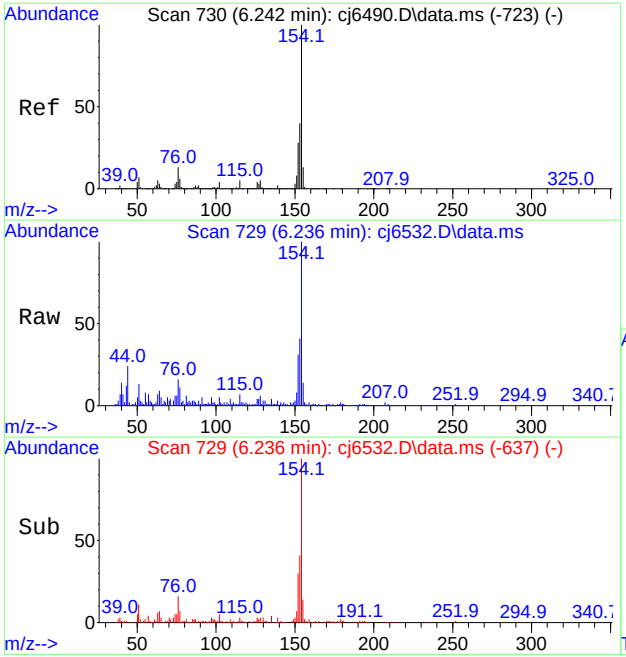


#44
2-Methylnaphthalene
Concen: 0.6883 ppm
RT: 5.926 min Scan# 671
Delta R.T. -0.000 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:141 Resp: 12012

Ion	Ratio	Lower	Upper
141	100		
142	124.2	82.7	142.7
115	46.1	12.4	72.4

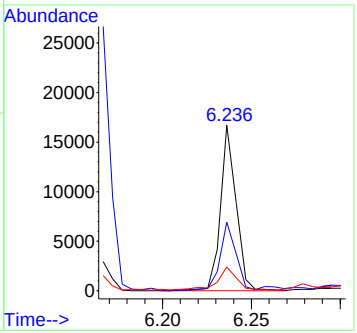


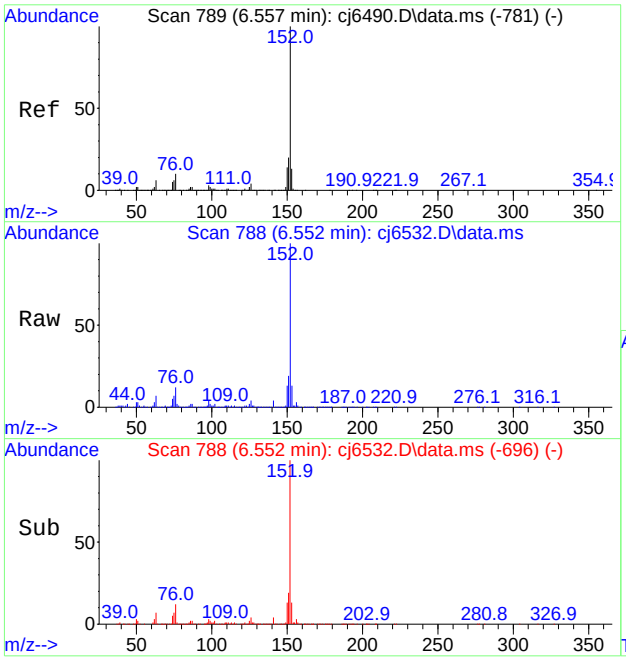


#53
Biphenyl
Concen: 0.4365 ppm
RT: 6.236 min Scan# 729
Delta R.T. -0.006 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:154 Resp: 10221

Ion	Ratio	Lower	Upper
154	100		
153	40.5	10.5	70.5
155	13.6	0.0	42.8

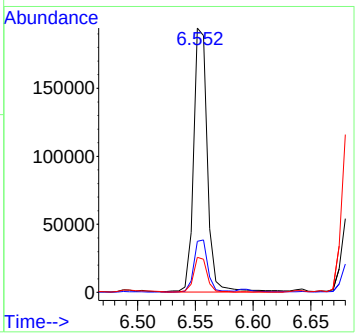


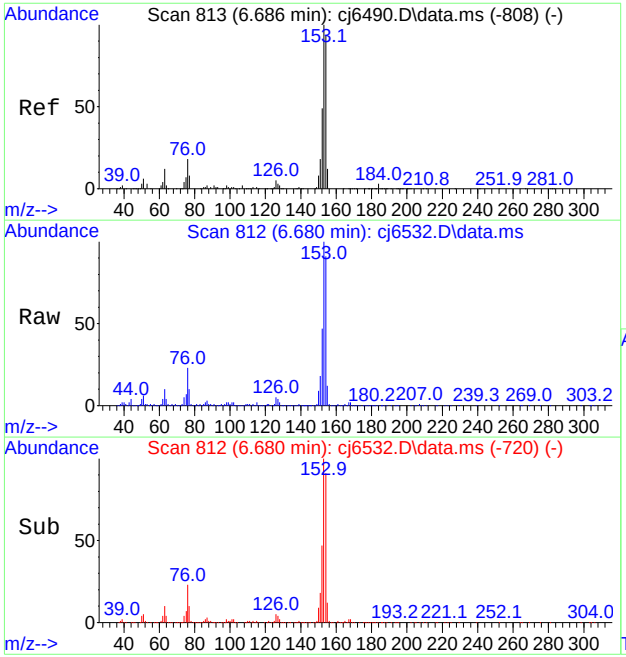


#56
Acenaphthylene
Concen: 6.1214 ppm
RT: 6.552 min Scan# 788
Delta R.T. -0.005 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:152 Resp: 161794

Ion	Ratio	Lower	Upper
152	100		
151	19.2	0.0	50.3
153	13.1	0.0	43.4

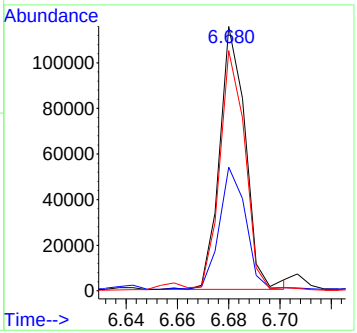


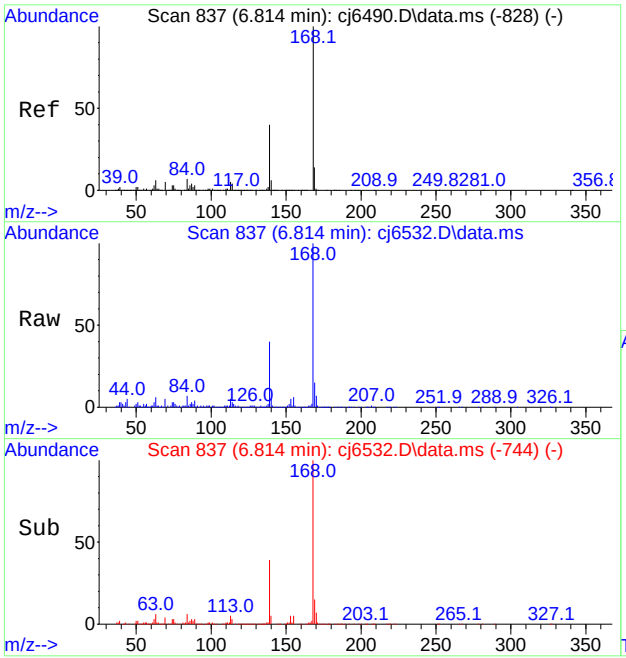


#59
Acenaphthene
Concen: 4.3039 ppm
RT: 6.680 min Scan# 812
Delta R.T. -0.006 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:153 Resp: 80898

Ion	Ratio	Lower	Upper
153	100		
152	47.0	18.8	78.8
154	91.3	62.9	122.9

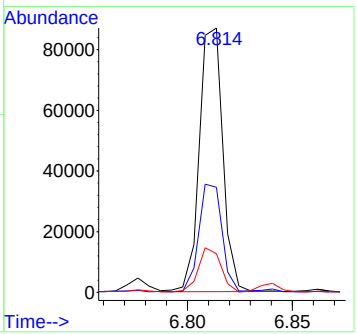


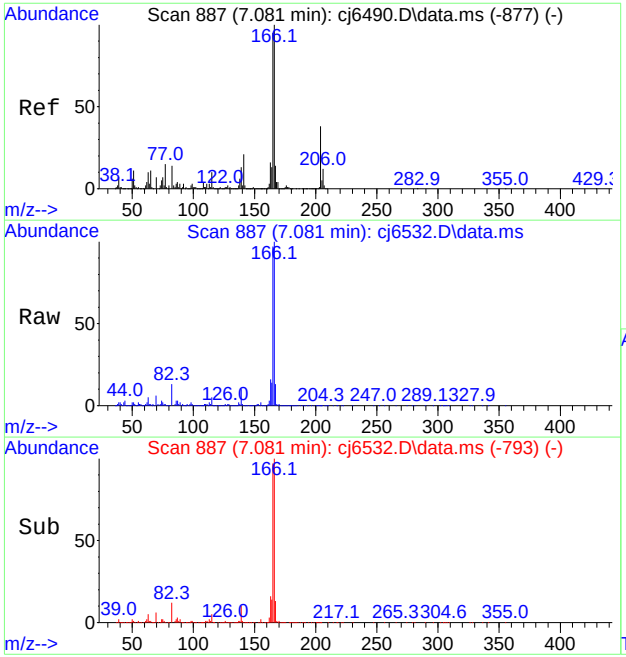


#62
Dibenzofuran
Concen: 2.5906 ppm
RT: 6.814 min Scan# 837
Delta R.T. -0.000 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:168 Resp: 67572

Ion	Ratio	Lower	Upper
168	100		
139	39.6	10.0	70.0
169	14.1	0.0	43.7

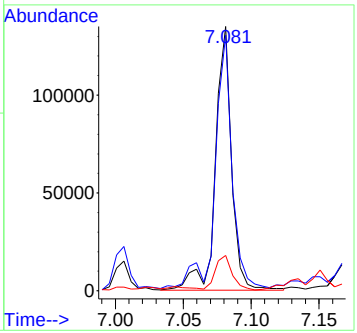


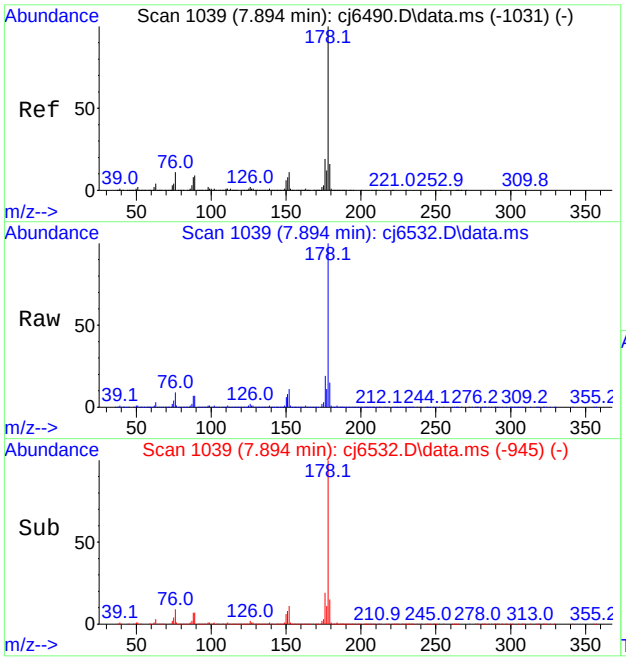


#66
Fluorene
Concen: 5.4245 ppm
RT: 7.081 min Scan# 887
Delta R.T. 0.000 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:166 Resp: 111774

Ion	Ratio	Lower	Upper
166	100		
165	95.7	65.4	125.4
167	12.2	0.0	43.8

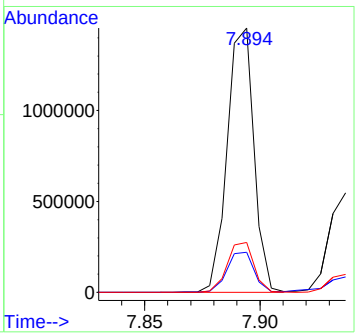


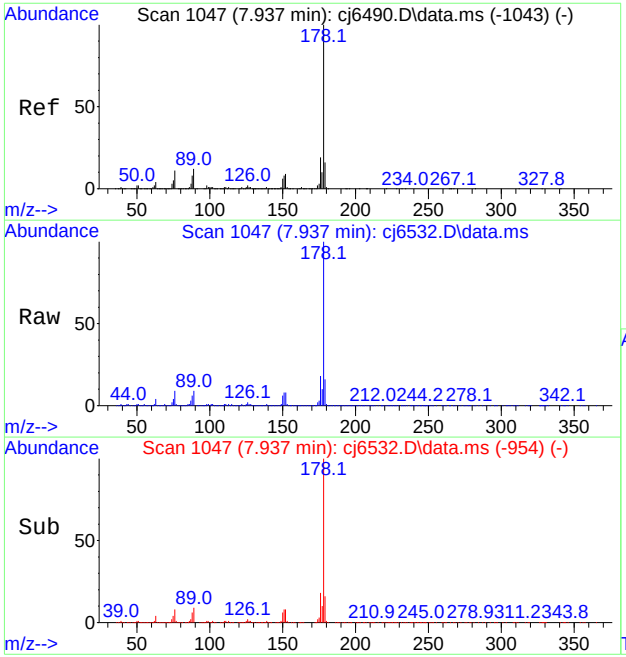


#78
Phenanthrene
Concen: 40.4532 ppm
RT: 7.894 min Scan# 1039
Delta R.T. 0.000 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:178 Resp: 1174901

Ion	Ratio	Lower	Upper
178	100		
179	15.1	0.0	45.5
176	18.8	0.0	49.2

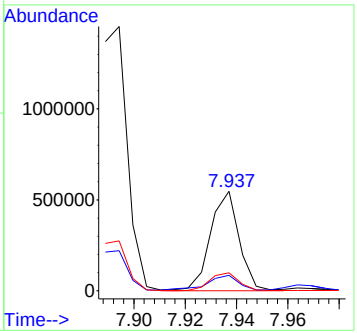


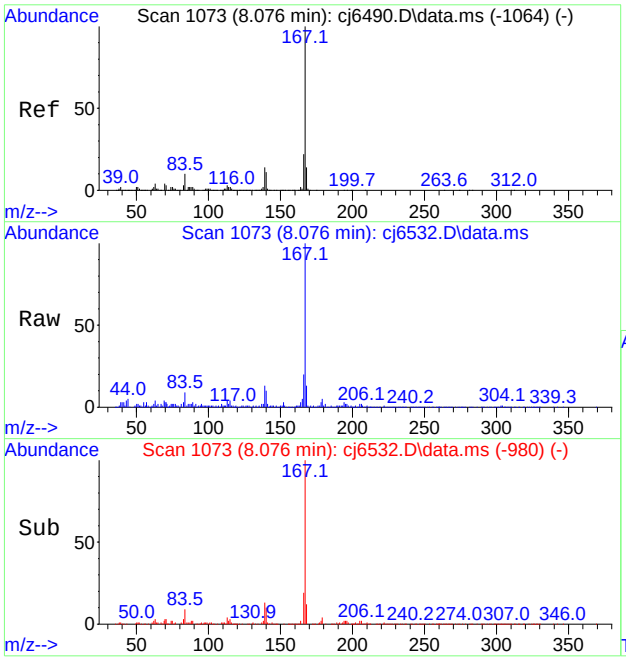


#79
Anthracene
Concen: 14.7335 ppm
RT: 7.937 min Scan# 1047
Delta R.T. 0.000 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:178 Resp: 428469

Ion	Ratio	Lower	Upper
178	100		
179	13.9	0.0	46.1
176	18.0	0.0	48.7

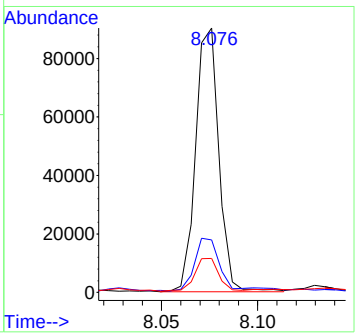


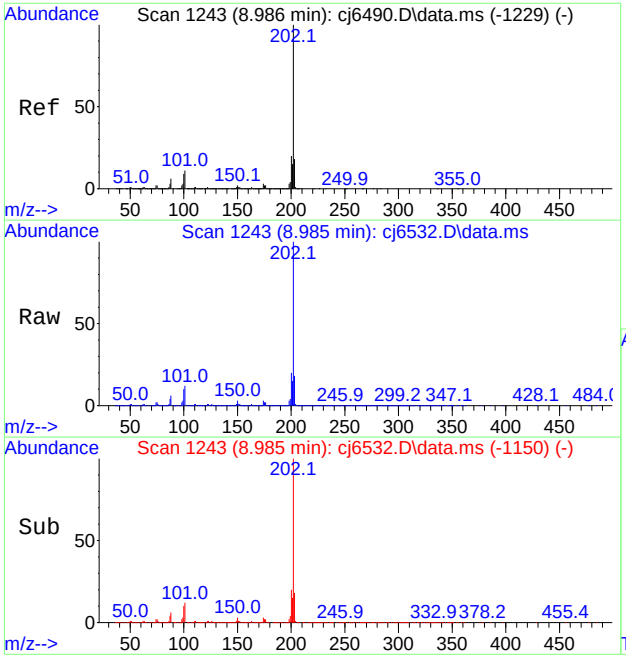


#80
Carbazole
Concen: 2.8027 ppm
RT: 8.076 min Scan# 1073
Delta R.T. 0.000 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:167 Resp: 75950

Ion	Ratio	Lower	Upper
167	100		
166	19.2	0.0	51.7
139	12.2	0.0	43.8

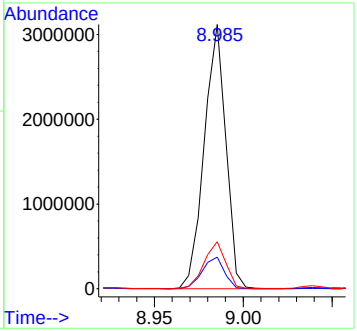


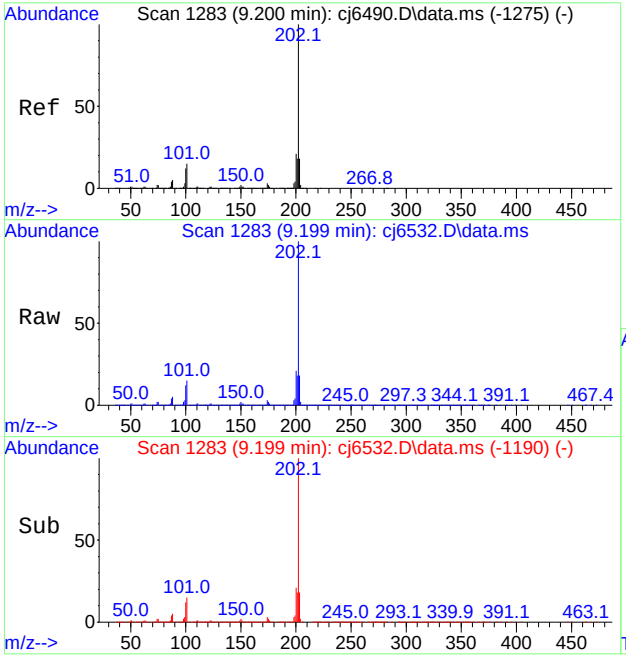


#82
Fluoranthene
Concen: 83.6719 ppm
RT: 8.985 min Scan# 1243
Delta R.T. -0.001 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:202 Resp: 2630878

Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	41.4
203	17.8	0.0	47.6

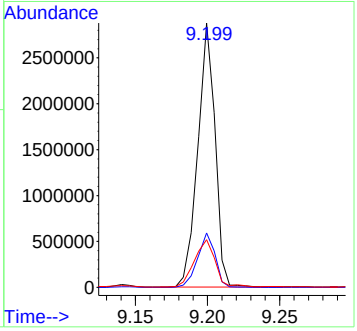


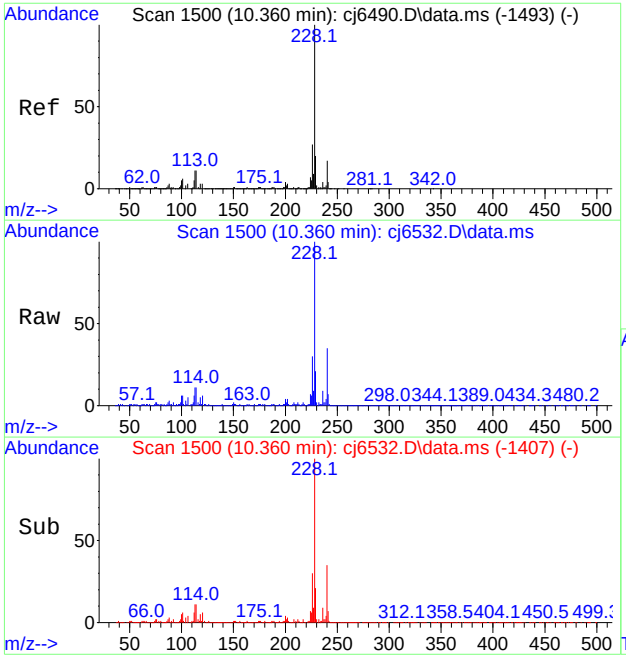


#86
Pyrene
Concen: 82.6109 ppm
RT: 9.199 min Scan# 1283
Delta R.T. -0.001 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:202 Resp: 2403062

Ion	Ratio	Lower	Upper
202	100		
200	20.6	0.0	51.4
203	17.9	0.0	47.8

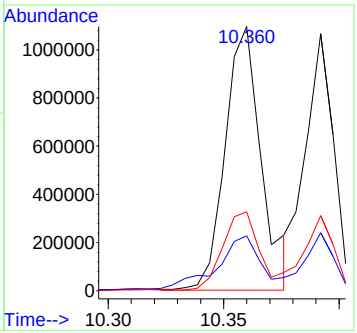


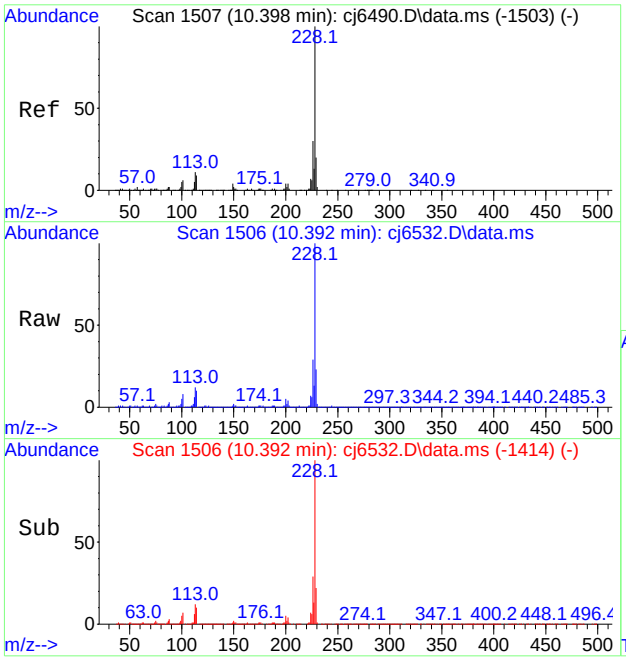


#89
Benzo[a]anthracene
Concen: 43.3691 ppm
RT: 10.360 min Scan# 1500
Delta R.T. -0.000 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:228 Resp: 1192712

Ion	Ratio	Lower	Upper
228	100		
229	20.0	0.0	49.8
226	29.5	0.0	57.1

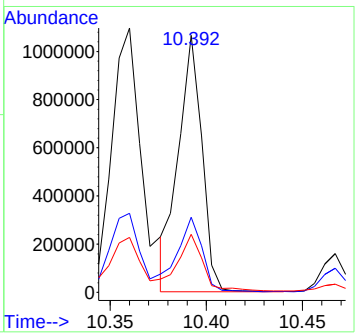


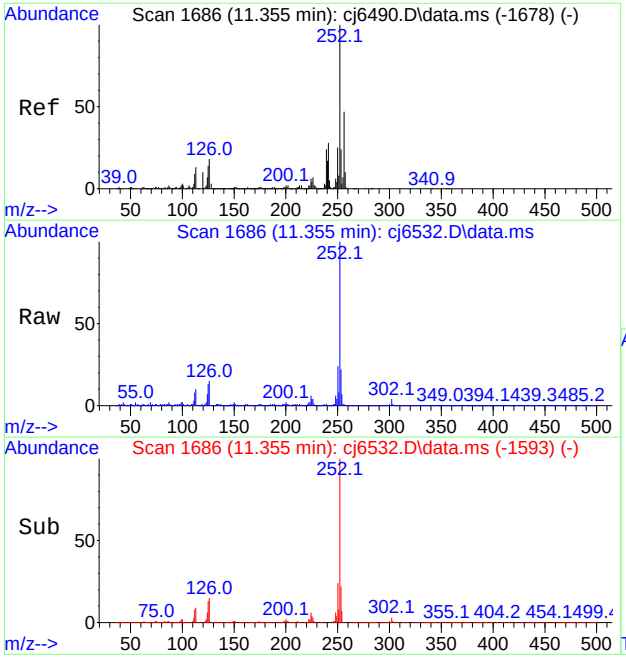


#91
Chrysene
Concen: 35.8589 ppm
RT: 10.392 min Scan# 1506
Delta R.T. -0.006 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:228 Resp: 909865

Ion	Ratio	Lower	Upper
228	100		
226	28.7	0.0	59.9
229	22.2	0.0	49.8

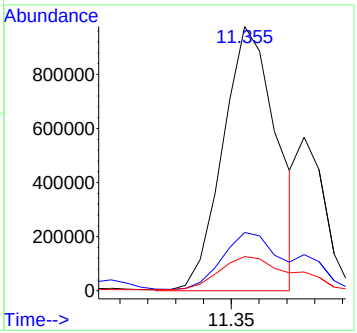


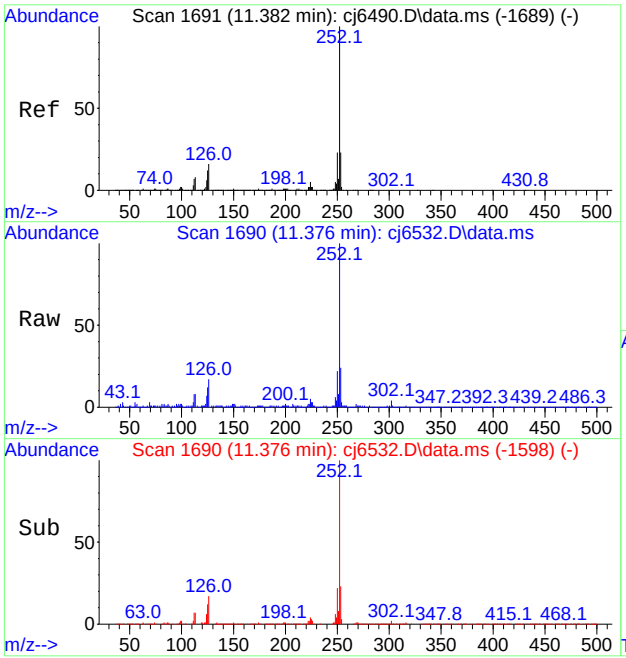


#95
Benzo[b]fluoranthene
Concen: 49.5535 ppm m
RT: 11.355 min Scan# 1686
Delta R.T. -0.000 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:252 Resp: 1314206

Ion	Ratio	Lower	Upper
252	100		
253	22.0	0.0	54.7
125	12.9	0.0	44.2

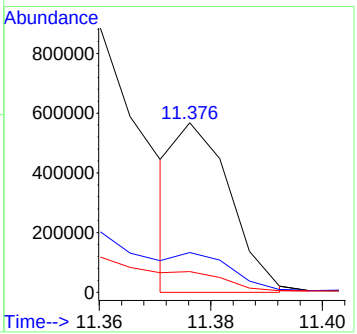


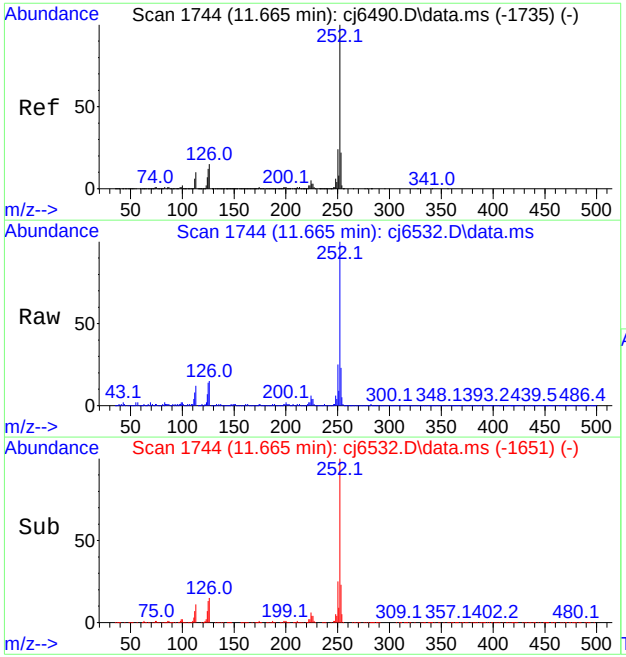


#96
Benzo[k]fluoranthene
Concen: 15.7591 ppm m
RT: 11.376 min Scan# 1690
Delta R.T. -0.006 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:252 Resp: 376082

Ion	Ratio	Lower	Upper
252	100		
253	23.5	0.0	52.6
125	12.2	0.0	42.4

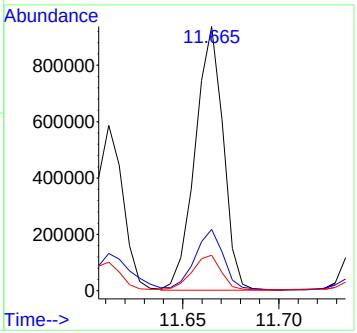


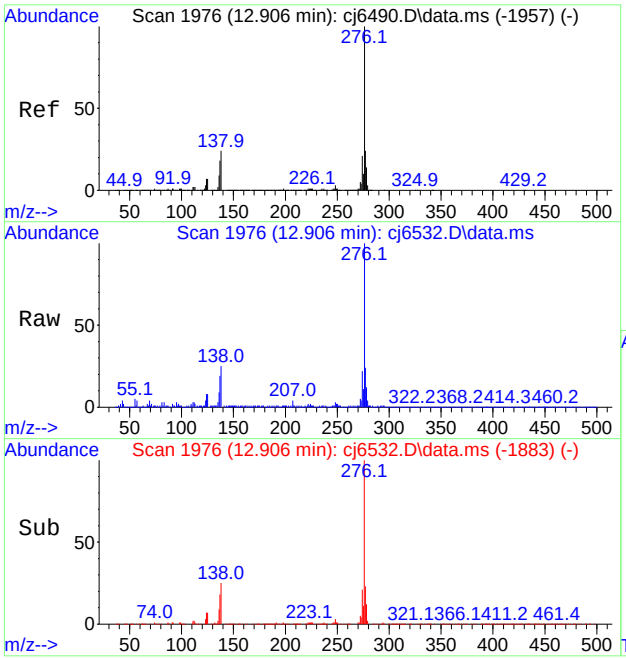


#97
Benzo[a]pyrene
Concen: 43.2761 ppm
RT: 11.665 min Scan# 1744
Delta R.T. 0.000 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:252 Resp: 950113

Ion	Ratio	Lower	Upper
252	100		
253	22.5	0.0	51.9
125	13.1	0.0	42.1

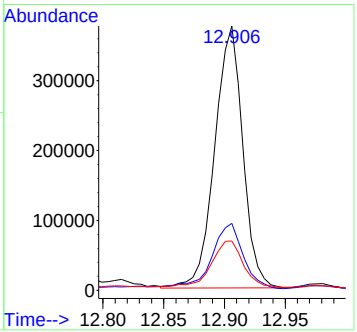


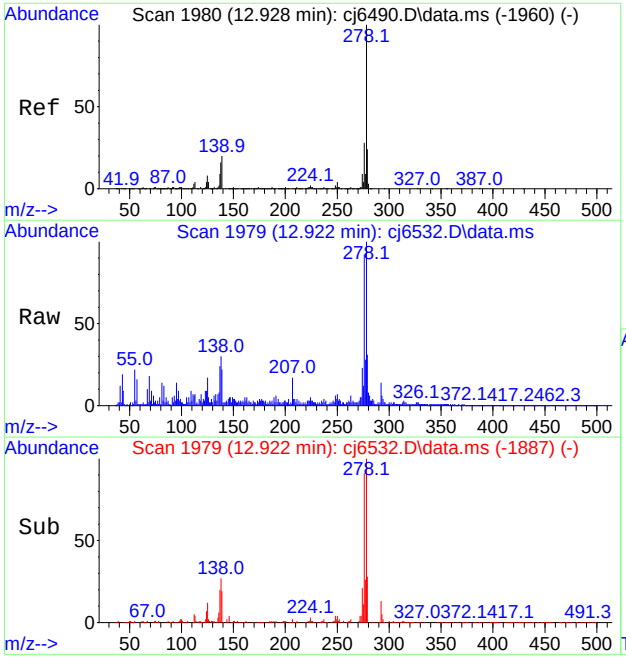


#98
Indeno[1,2,3-cd]pyrene
Concen: 22.6782 ppm
RT: 12.906 min Scan# 1976
Delta R.T. -0.000 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:276 Resp: 601909

Ion	Ratio	Lower	Upper
276	100		
138	24.6	0.0	54.2
137	17.5	0.0	47.9

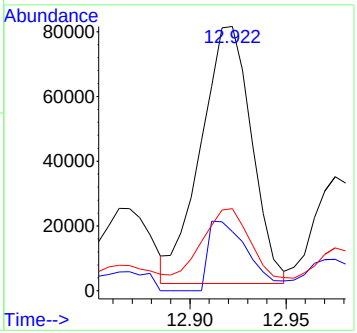


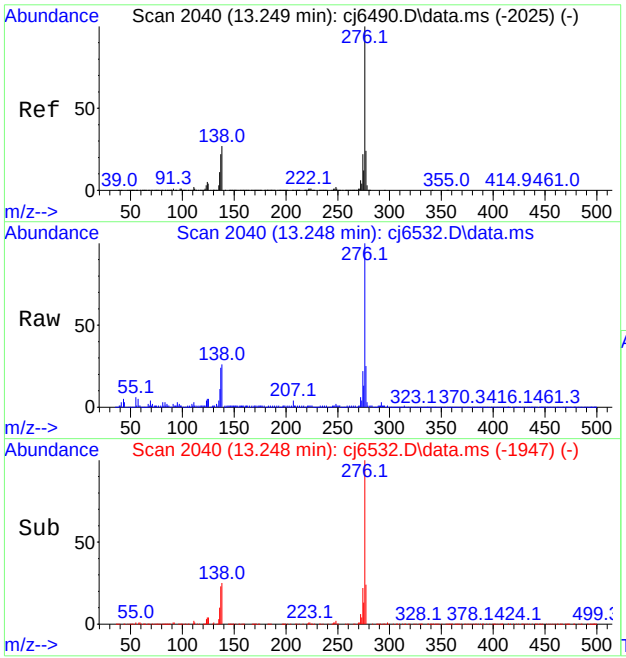


#100
Dibenz[a,h]anthracene
Concen: 6.8935 ppm
RT: 12.922 min Scan# 1979
Delta R.T. -0.006 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:278 Resp: 146194

Ion	Ratio	Lower	Upper
278	100		
139	22.9	0.0	49.8
279	28.4	0.0	54.1

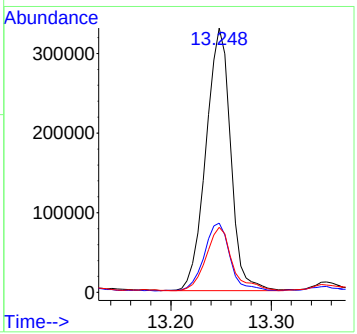




#102
Benzo[g,h,i]perylene
Concen: 27.2760 ppm
RT: 13.248 min Scan# 2040
Delta R.T. -0.001 min
Lab File: cj6532.D
Acq: 09 May 2024 10:22 pm

Tgt Ion:276 Resp: 562582

Ion	Ratio	Lower	Upper
276	100		
138	25.7	0.0	56.7
277	24.0	0.0	54.1



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6532.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.246	353	357	367	rVB	738204	545354	8.33%	0.597%
2	4.423	387	390	395	rBV	2510915	1417276	21.66%	1.552%
3	4.487	399	402	407	rVB	500402	316166	4.83%	0.346%
4	4.664	431	435	439	rBV	3380485	2117033	32.35%	2.319%
5	4.755	446	452	460	rBV	269349	191906	2.93%	0.210%
6	4.819	461	464	469	rBV	277486	193842	2.96%	0.212%
7	5.011	495	500	504	rBV	2170258	1320653	20.18%	1.447%
8	5.466	577	585	592	rBV	3923061	2692033	41.14%	2.949%
9	6.167	710	716	722	rVB	4353186	2583569	39.48%	2.830%
10	6.552	784	788	793	rBV	448665	366267	5.60%	0.401%
11	6.659	800	808	811	rBV	4294317	3021500	46.17%	3.310%
12	6.680	811	812	819	rVB	452101	270070	4.13%	0.296%
13	6.808	832	836	839	rBV	259205	199295	3.05%	0.218%
14	7.081	875	887	892	rVB	434272	409126	6.25%	0.448%
15	7.274	918	923	927	rBV	1613171	1277273	19.52%	1.399%
16	7.375	939	942	949	rVB3	141412	135097	2.06%	0.148%
17	7.531	965	971	974	rBV3	125306	168813	2.58%	0.185%
18	7.777	1013	1017	1024	rVB	210510	236041	3.61%	0.259%
19	7.873	1030	1035	1037	rBV	3500200	3390305	51.81%	3.713%
20	7.889	1037	1038	1042	rVB	3433220	2449115	37.42%	2.683%
21	7.937	1042	1047	1050	rVB	1246726	991699	15.15%	1.086%
22	8.076	1066	1073	1076	rBV	227951	249078	3.81%	0.273%
23	8.322	1112	1119	1121	rBV	539274	463845	7.09%	0.508%
24	8.344	1121	1123	1129	rVB	595571	511723	7.82%	0.561%
25	8.392	1129	1132	1134	rVB	286252	231980	3.54%	0.254%
26	8.424	1134	1138	1146	rVB	1050929	1295007	19.79%	1.418%
27	8.600	1162	1171	1178	rBV2	377248	591716	9.04%	0.648%
28	8.734	1190	1196	1199	rBV2	117144	138023	2.11%	0.151%
29	8.836	1209	1215	1218	rBV	385435	424902	6.49%	0.465%
30	8.868	1218	1221	1224	rBV	199070	200669	3.07%	0.220%
31	8.910	1224	1229	1235	rVB2	333940	442972	6.77%	0.485%
32	8.985	1235	1243	1249	rBV	7323394	6292163	96.15%	6.892%
33	9.039	1249	1253	1256	rBV3	194006	207484	3.17%	0.227%
34	9.071	1256	1259	1262	rVB	220593	190308	2.91%	0.208%
35	9.119	1262	1268	1275	rBV4	282658	422919	6.46%	0.463%
36	9.199	1275	1283	1290	rBV	6767293	6544308	100.00%	7.168%
37	9.247	1290	1292	1299	rVB2	207828	276795	4.23%	0.303%
38	9.317	1299	1305	1307	rBV	349612	310508	4.74%	0.340%
39	9.354	1307	1312	1317	rVB	3233006	2838349	43.37%	3.109%
40	9.413	1317	1323	1327	rBV2	380851	595824	9.10%	0.653%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.515	1331	1342	1346	rVB	785041	1291137	19.73%	1.414%
42	9.584	1346	1355	1358	rBV	690420	781225	11.94%	0.856%
43	9.617	1358	1361	1364	rBV	725011	623585	9.53%	0.683%
44	9.675	1369	1372	1374	rBV3	152621	135456	2.07%	0.148%
45	9.702	1374	1377	1380	rBV	349665	303441	4.64%	0.332%
46	9.734	1380	1383	1386	rBV	334660	280302	4.28%	0.307%
47	9.777	1386	1391	1394	rVB6	96474	151380	2.31%	0.166%
48	9.809	1394	1397	1408	rVB6	162471	359353	5.49%	0.394%
49	9.916	1408	1417	1423	rBV8	142924	403292	6.16%	0.442%
50	10.007	1427	1434	1440	rBV2	386875	521936	7.98%	0.572%
51	10.071	1440	1446	1449	rBV4	135592	196937	3.01%	0.216%
52	10.114	1449	1454	1458	rBV2	497686	581635	8.89%	0.637%
53	10.146	1458	1460	1466	rBV2	337695	512575	7.83%	0.561%
54	10.216	1470	1473	1478	rVB	325032	329026	5.03%	0.360%
55	10.274	1480	1484	1493	rVB3	203943	368369	5.63%	0.403%
56	10.365	1493	1501	1504	rBV2	4341696	6421964	98.13%	7.034%
57	10.392	1504	1506	1514	rVB	2850286	2298823	35.13%	2.518%
58	10.467	1514	1520	1524	rBV2	626112	786315	12.02%	0.861%
59	10.499	1524	1526	1529	rVB	204018	159379	2.44%	0.175%
60	10.553	1533	1536	1541	rBV3	171009	274048	4.19%	0.300%
61	10.590	1541	1543	1547	rBV2	175121	202034	3.09%	0.221%
62	10.686	1556	1561	1564	rBV3	162585	222570	3.40%	0.244%
63	10.713	1564	1566	1568	rBV	195495	162088	2.48%	0.178%
64	10.750	1568	1573	1576	rBV	539229	537436	8.21%	0.589%
65	10.783	1576	1579	1583	rVB	269731	241552	3.69%	0.265%
66	10.841	1583	1590	1592	rBV3	342783	428964	6.55%	0.470%
67	10.868	1592	1595	1597	rBV3	281142	301110	4.60%	0.330%
68	10.906	1600	1602	1608	rVB4	316284	315557	4.82%	0.346%
69	10.948	1608	1610	1616	rVB2	190411	191972	2.93%	0.210%
70	11.050	1623	1629	1633	rBV3	331280	501058	7.66%	0.549%
71	11.125	1636	1643	1647	rBV4	237029	558604	8.54%	0.612%
72	11.210	1653	1659	1668	rVB4	283688	640690	9.79%	0.702%
73	11.355	1679	1686	1695	rBV	2780256	4930175	75.34%	5.400%
74	11.446	1695	1703	1707	rBV2	619399	664997	10.16%	0.728%
75	11.526	1712	1718	1720	rVV4	200289	325824	4.98%	0.357%
76	11.574	1724	1727	1729	rVV4	125873	154405	2.36%	0.169%
77	11.612	1729	1734	1739	rVV	1618146	1819139	27.80%	1.993%
78	11.665	1739	1744	1748	rVB	2562330	2596511	39.68%	2.844%
79	11.719	1748	1754	1757	rBV	2462203	2771568	42.35%	3.036%
80	11.745	1757	1759	1766	rVV2	770142	788877	12.05%	0.864%
81	11.874	1775	1783	1786	rBV5	160755	362363	5.54%	0.397%
82	11.906	1787	1789	1796	rVB3	161293	248744	3.80%	0.272%
83	11.986	1796	1804	1807	rBV3	105361	225918	3.45%	0.247%
84	12.018	1807	1810	1818	rVB4	102211	192226	2.94%	0.211%
85	12.173	1835	1839	1843	rVV3	174606	249393	3.81%	0.273%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.211	1843	1846	1850	rVV5	100645	151109	2.31%	0.166%
87	12.473	1887	1895	1901	rVB9	97074	198978	3.04%	0.218%
88	12.649	1916	1928	1931	rBV9	113829	361404	5.52%	0.396%
89	12.772	1942	1951	1962	rBV5	329304	759927	11.61%	0.832%
90	12.906	1963	1976	1984	rVV2	1097917	2210567	33.78%	2.421%
91	12.976	1984	1989	1995	rVB2	113558	198889	3.04%	0.218%
92	13.050	1995	2003	2007	rBV2	256754	454574	6.95%	0.498%
93	13.093	2007	2011	2016	rVV3	265696	522426	7.98%	0.572%
94	13.131	2016	2018	2031	rVV7	147502	326066	4.98%	0.357%
95	13.248	2032	2040	2055	rVB	942259	1829893	27.96%	2.004%
96	13.425	2063	2073	2083	rVB	319102	704259	10.76%	0.771%
97	13.714	2120	2127	2134	rVB10	63241	158843	2.43%	0.174%
98	13.847	2145	2152	2161	rVB4	88442	197654	3.02%	0.216%
99	13.965	2168	2174	2180	rBV10	79780	150254	2.30%	0.165%
100	14.147	2204	2208	2216	rVV9	56063	137169	2.10%	0.150%

Sum of corrected areas: 91296971

LSC Report - Integrated Chromatogram

```
Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On    : 09 May 2024  10:22 pm
Operator  : rocquans
Sample    : jd87833-6
Misc      : op54460,ecj297,30.9,,,1,1
ALS Vial  : 23   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title  : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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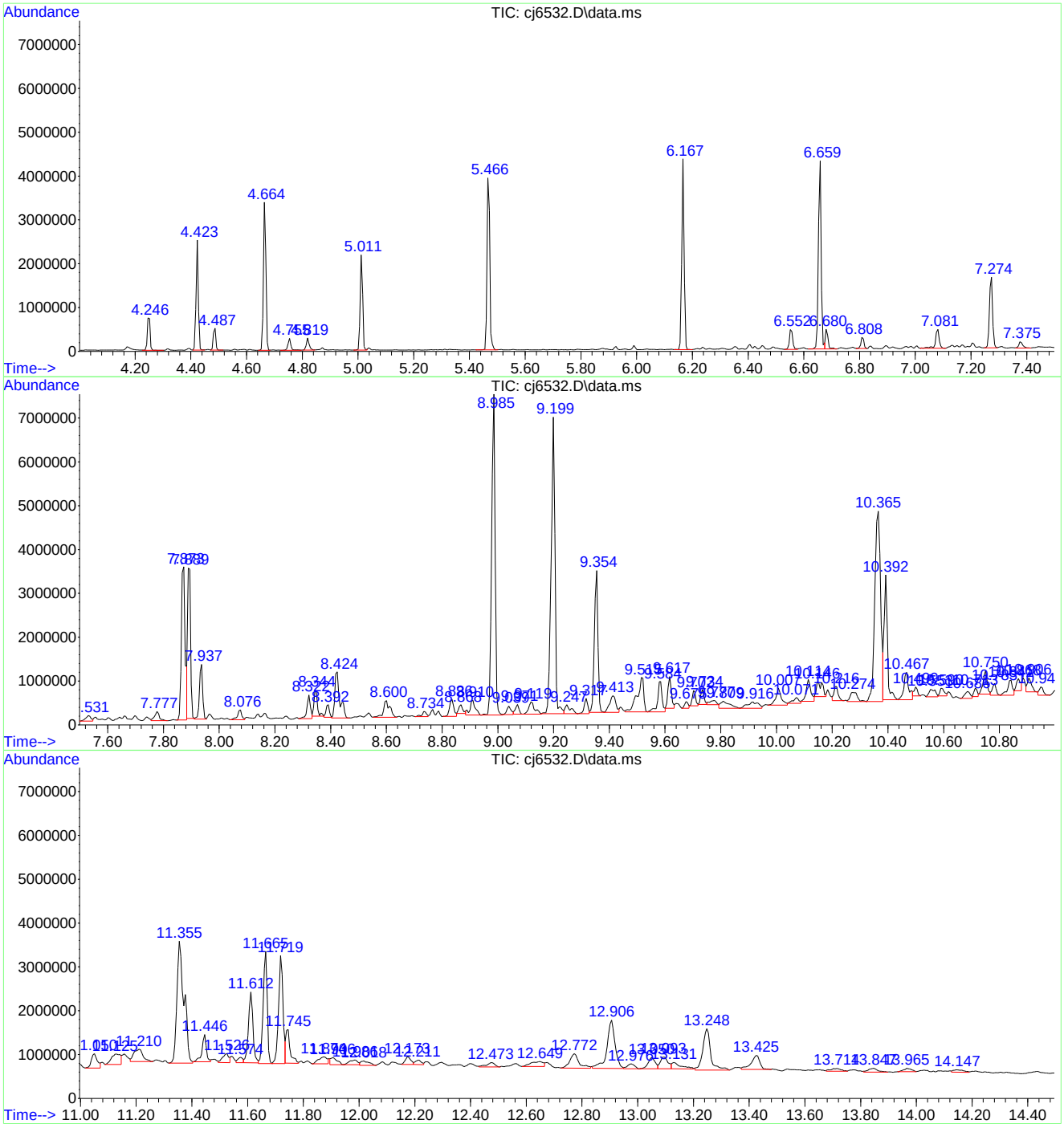


Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

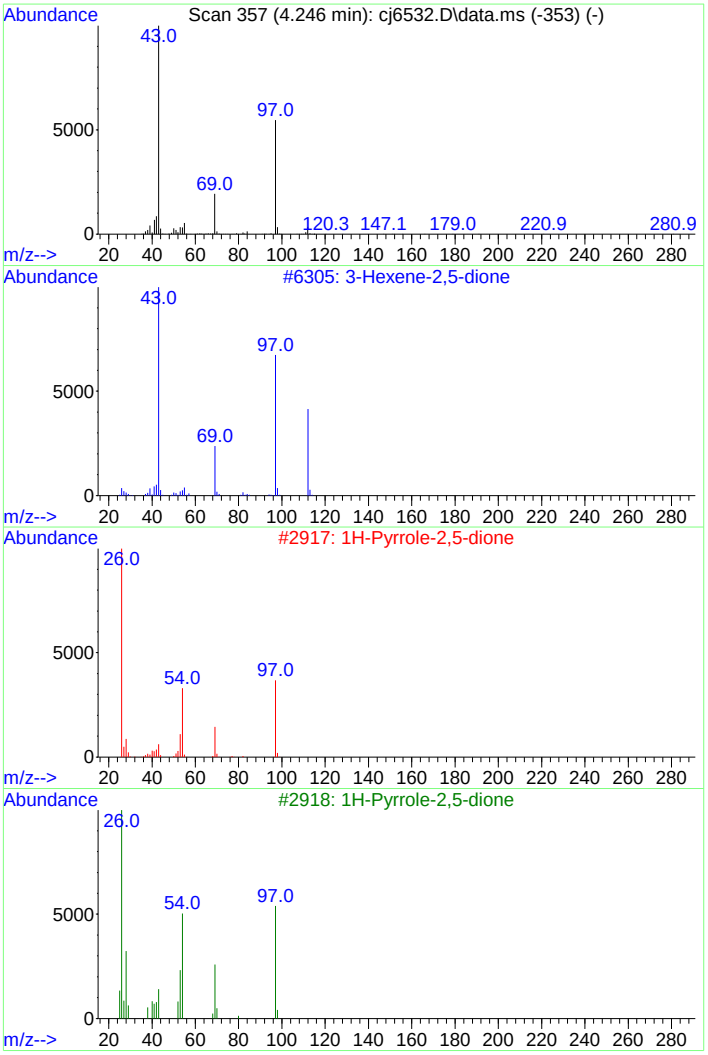
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

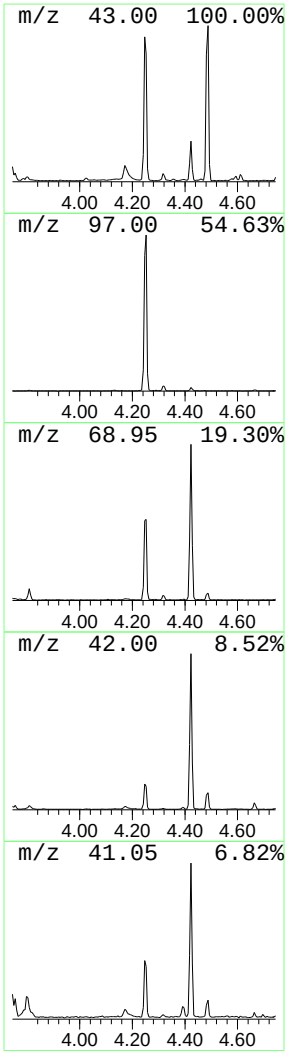
****

Peak Number 1 Unknown ketone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.246	10.30 ppm	545354	1,4-Dichlorobenzene-d4a	4.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexene-2,5-dione	112	C6H8O2	004436-75-3	78
2	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	53
3	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	28
4	2,4-Dimethyl-1,5-diazabicyclo[3....	112	C6H12N2	100463-01-2	28
5	5-Hexen-2-one	98	C6H10O	000109-49-9	14





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

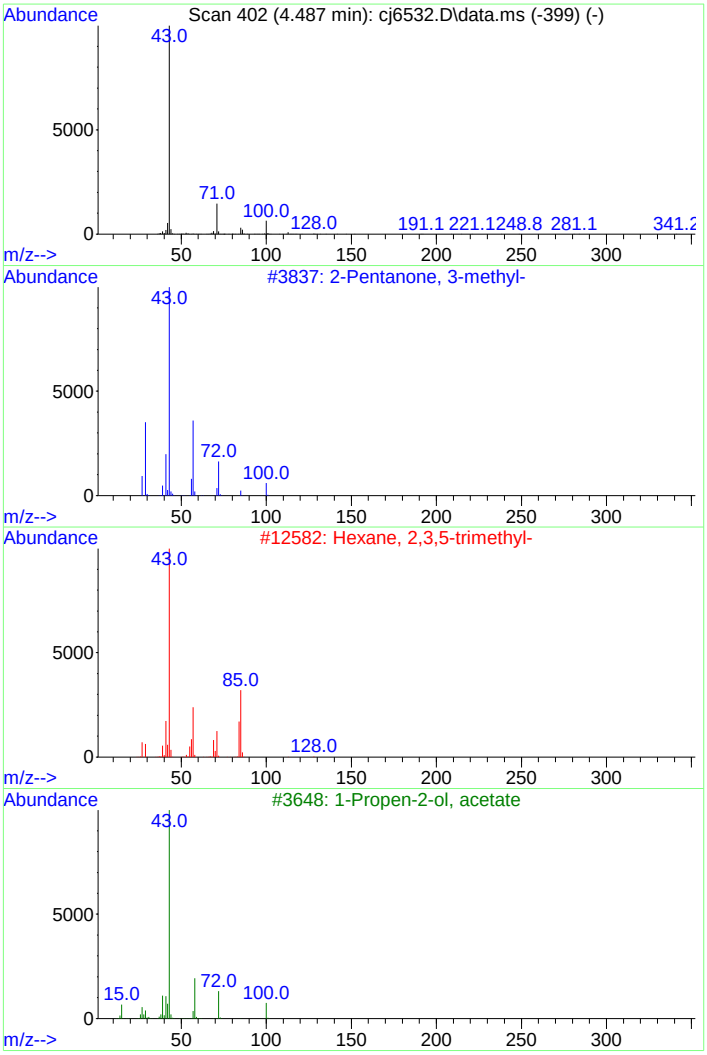
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

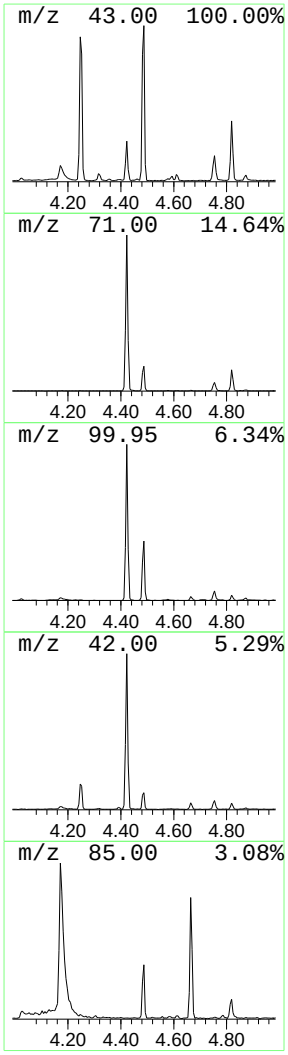
****

Peak Number 2 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.487	5.97 ppm	316166	1,4-Dichlorobenzene-d4a	4.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 3-methyl-	100	C6H12O	000565-61-7	9
2	Hexane, 2,3,5-trimethyl-	128	C9H20	001069-53-0	9
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	9
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	9
5	2-Pentanone, 3-methyl-	100	C6H12O	000565-61-7	9





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

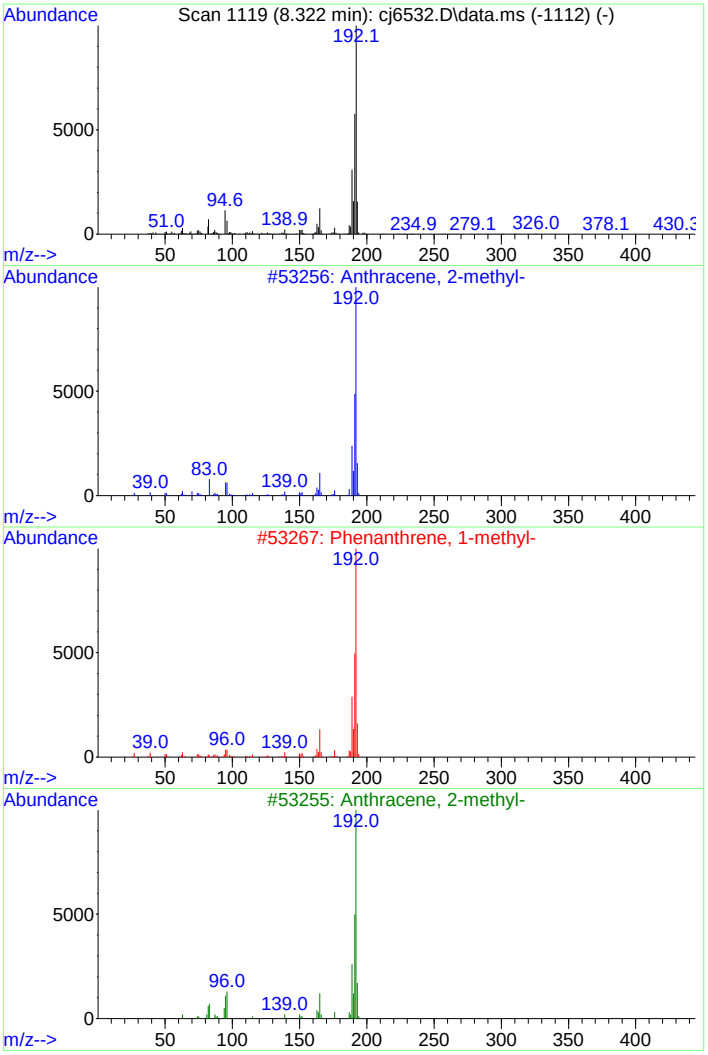
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

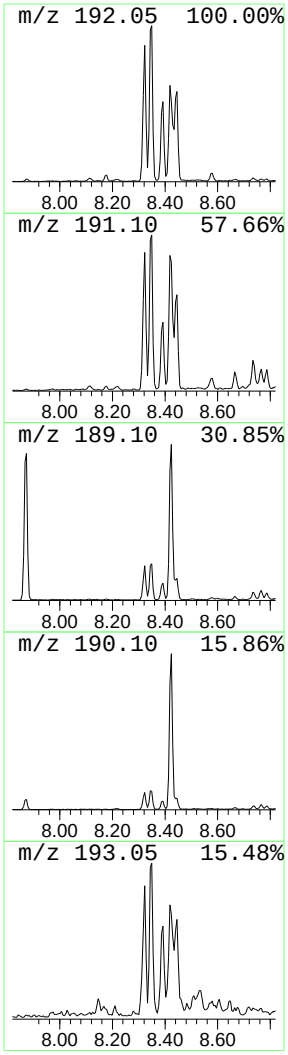
****

Peak Number 3 Anthracene, methyl Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.322	5.47 ppm	463845	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

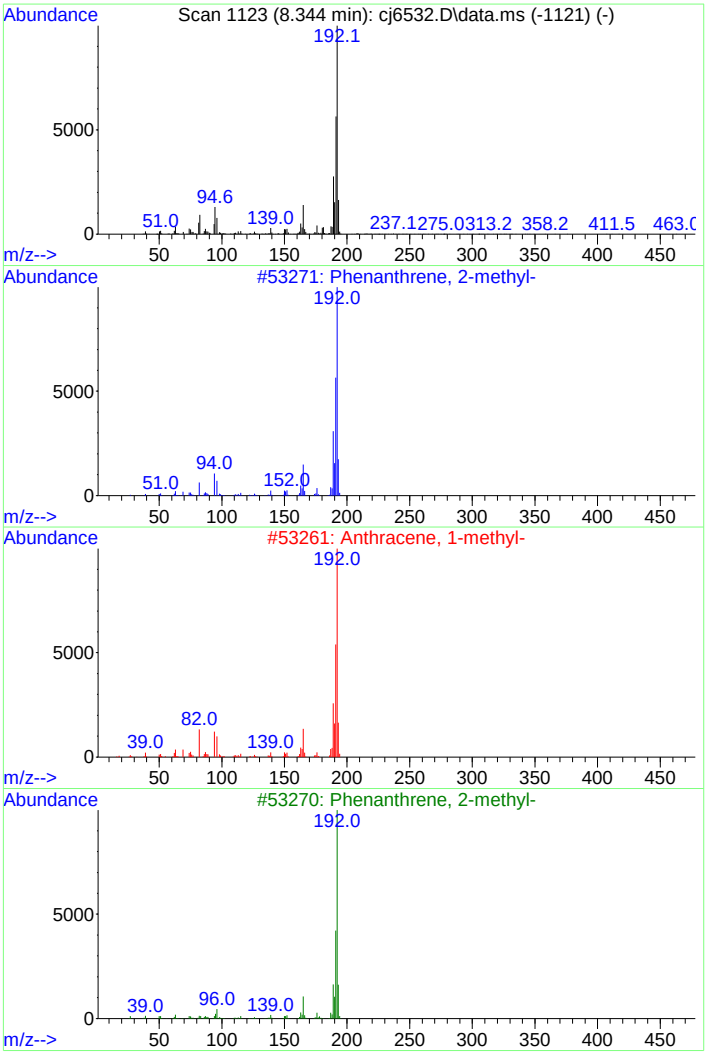
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

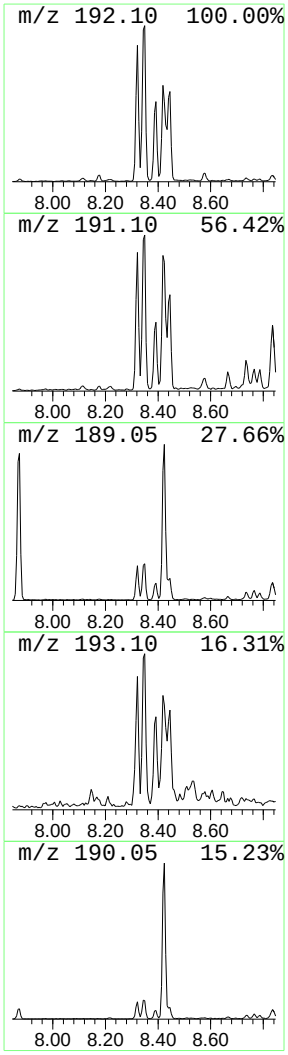
****

Peak Number 4 Anthracene, methyl Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.344	6.04 ppm	511723	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	97
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

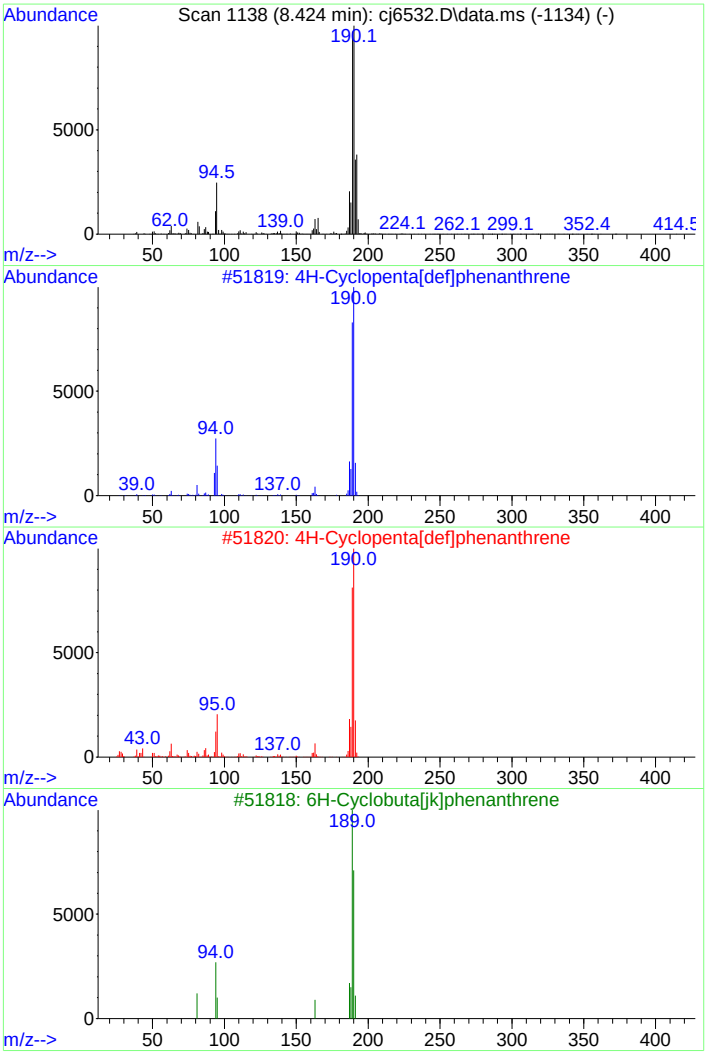
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

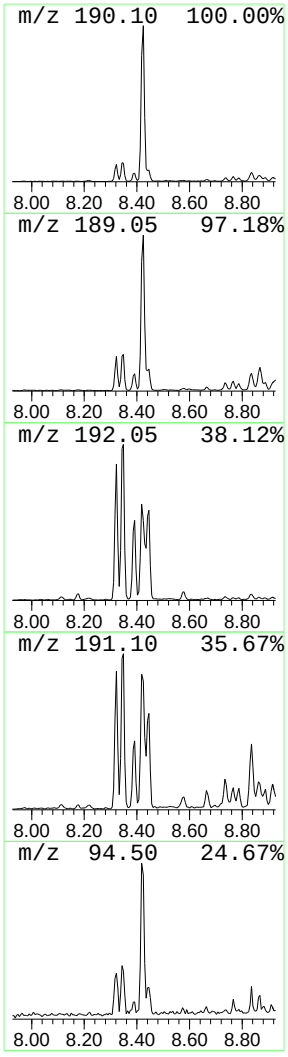
****

Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.424	15.28 ppm	1295010	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	59
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	47





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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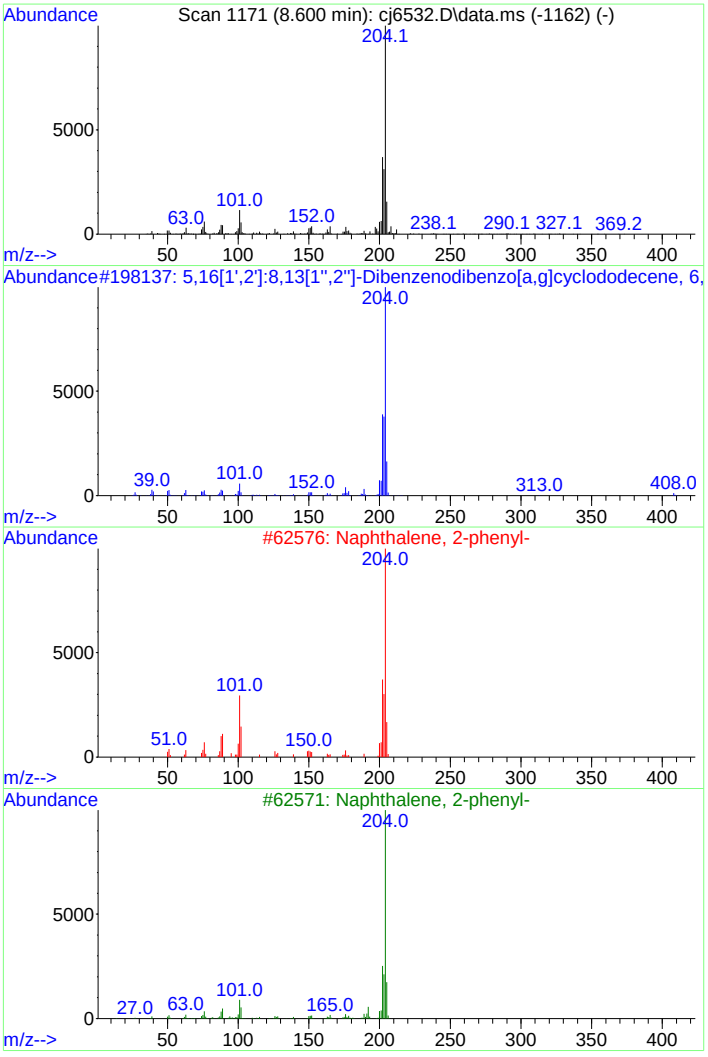
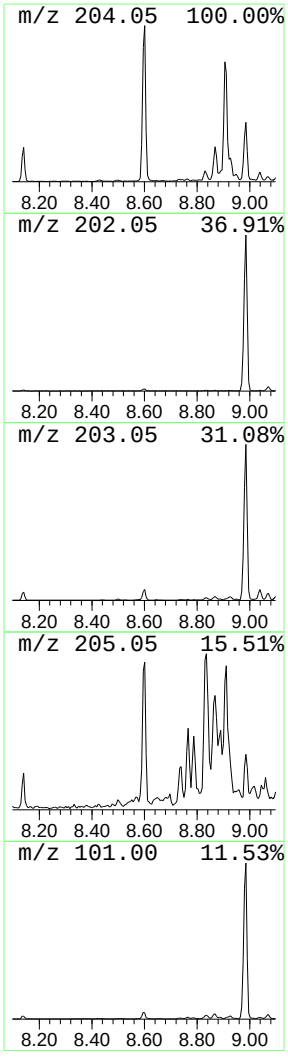
Peak Number 6 Naphthalene, phenyl Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.600	6.98 ppm	591716	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	64





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Sample : jd87833-6
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ALS Vial : 23 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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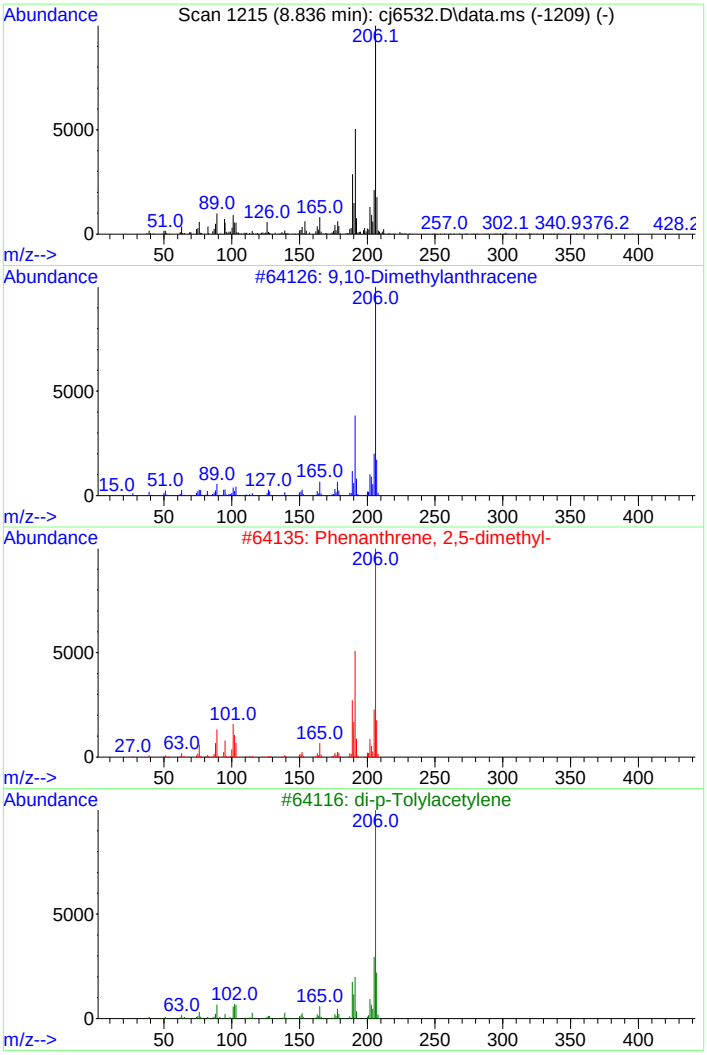
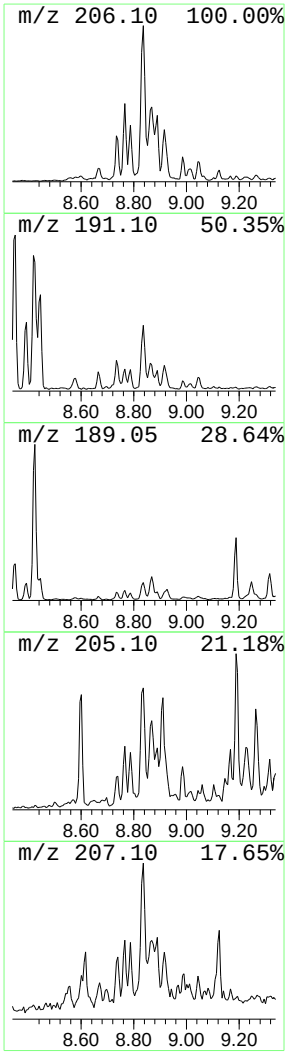
Peak Number 7 Phenanthrene, dimethyl Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.836	5.01 ppm	424902	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93





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ALS Vial : 23 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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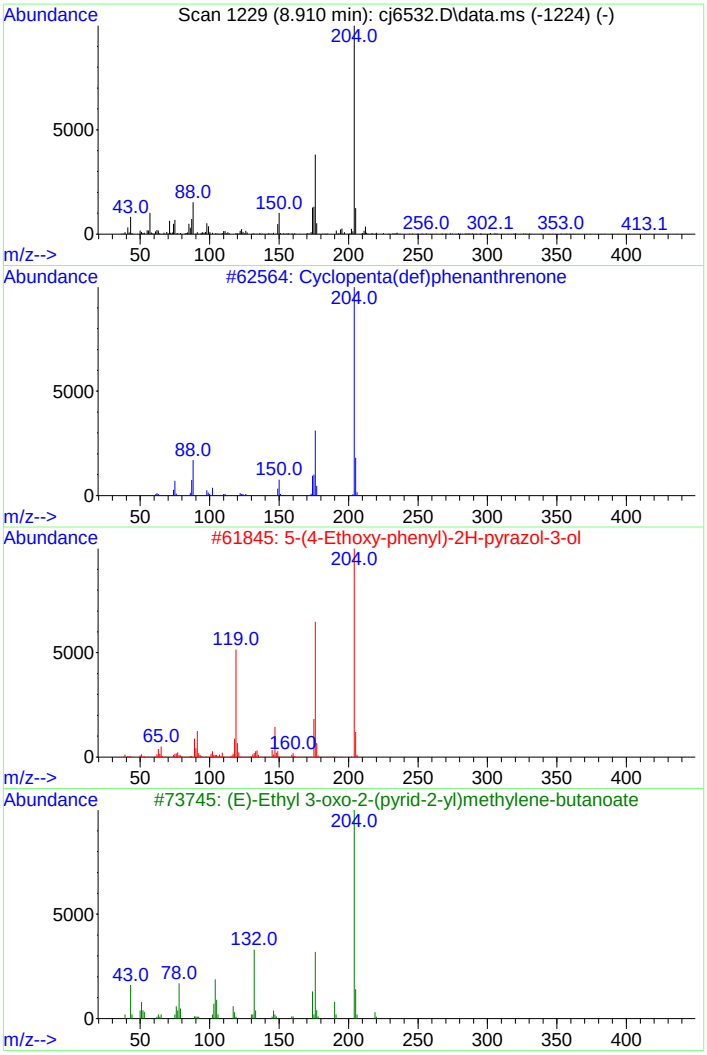
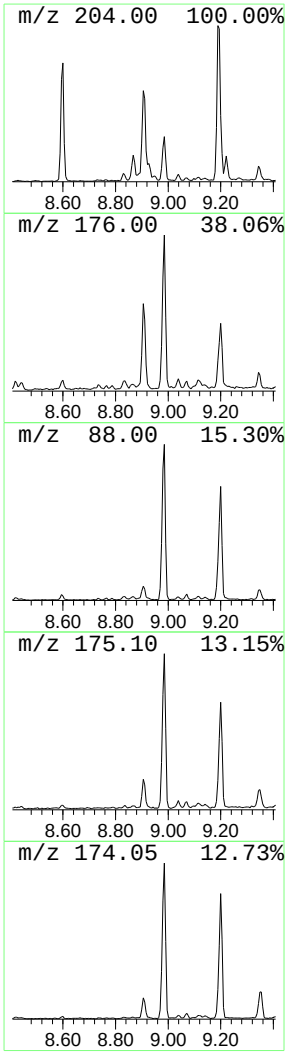
Peak Number 8 Unknown Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.910	5.23 ppm	442972	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	93
2	5-(4-Ethoxy-phenyl)-2H-pyrazol-3-ol	204	C11H12N2O2	1000278-26-8	64
3	(E)-Ethyl 3-oxo-2-(pyrid-2-yl)me...	219	C12H13NO3	1000147-59-7	50
4	Quinoline, 8-hydroxy-5-nitro-7-m...	289	C14H15N3O4	074440-53-2	43
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	43





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ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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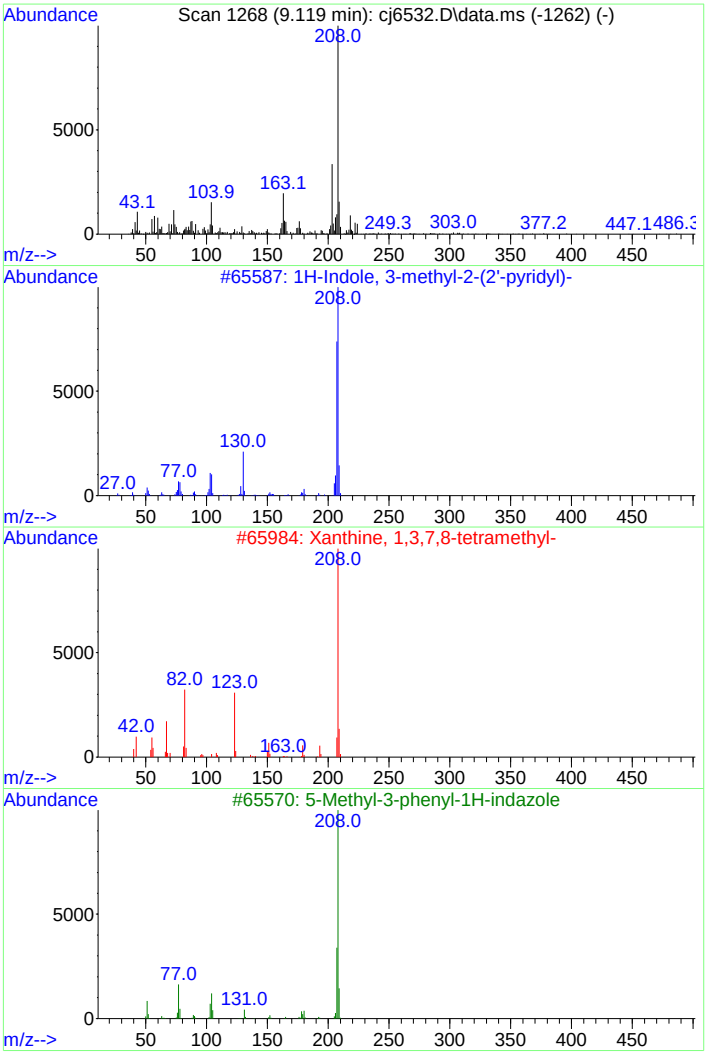
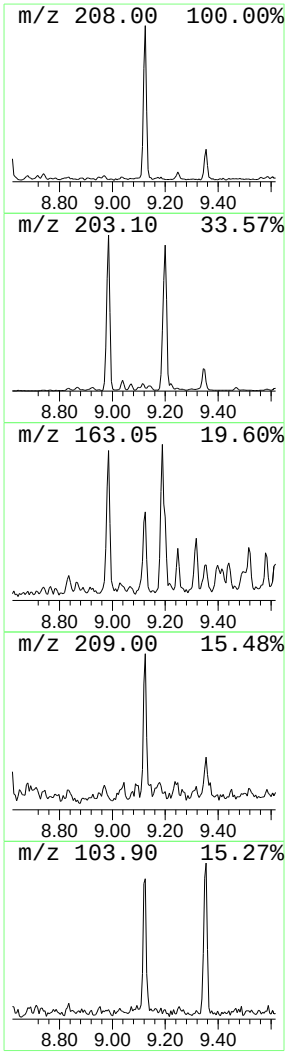
Peak Number 9 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.119	4.99 ppm	422919	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indole, 3-methyl-2-(2'-pyridyl)-	208	C14H12N2	000951-25-7	47
2	Xanthine, 1,3,7,8-tetramethyl-	208	C9H12N4O2	000832-66-6	43
3	5-Methyl-3-phenyl-1H-indazole	208	C14H12N2	057614-16-1	43
4	1,8-dimethyl-3,6-diazahomoadaman...	208	C12H20N2O	160777-78-6	43
5	1,10-Phenanthroline, 2,9-dimethyl-	208	C14H12N2	000484-11-7	43





Library Search Compound Report

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Acq On : 09 May 2024 10:22 pm
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Sample : jd87833-6
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ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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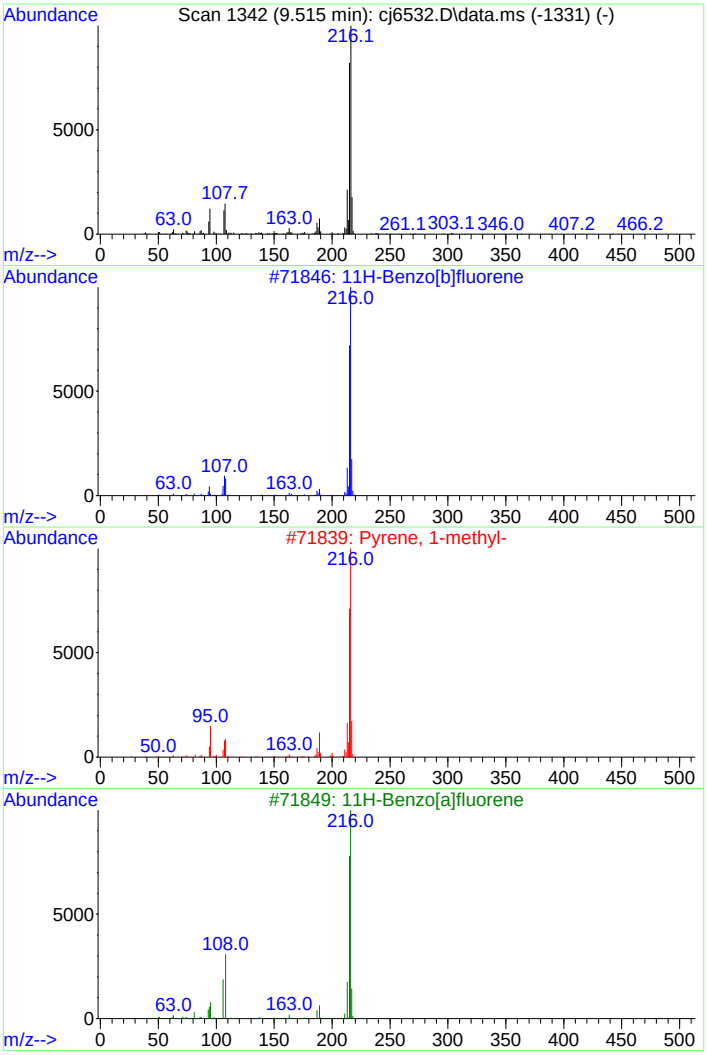
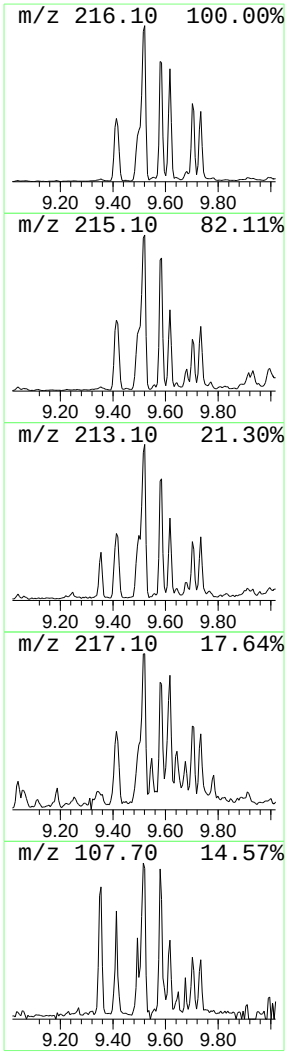
Peak Number 10 Pyrene, methyl Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.515	8.04 ppm	1291140	Chrysene-d12	10.371

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91





Library Search Compound Report

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Acq On : 09 May 2024 10:22 pm
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Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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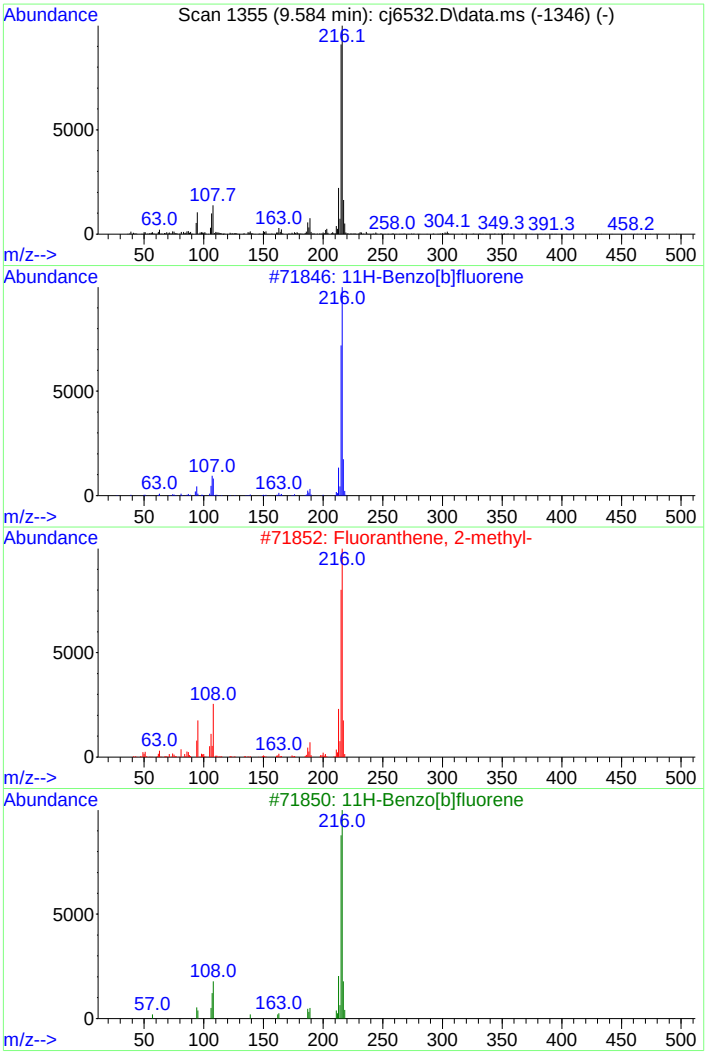
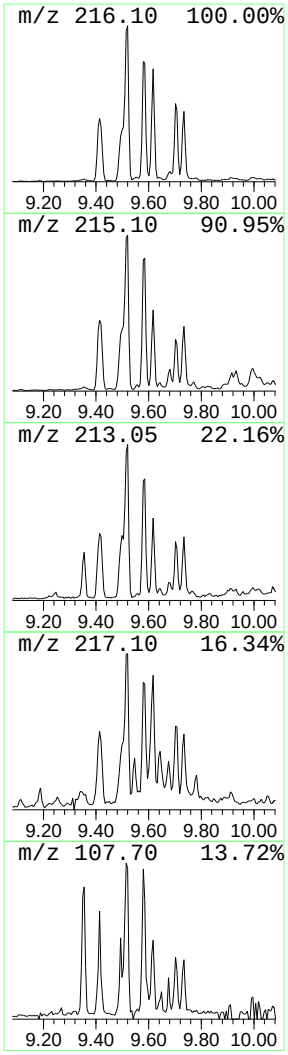
Peak Number 11 Fluoranthene, methyl Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.584	4.87 ppm	781225	Chrysene-d12	10.371

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87





Library Search Compound Report

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Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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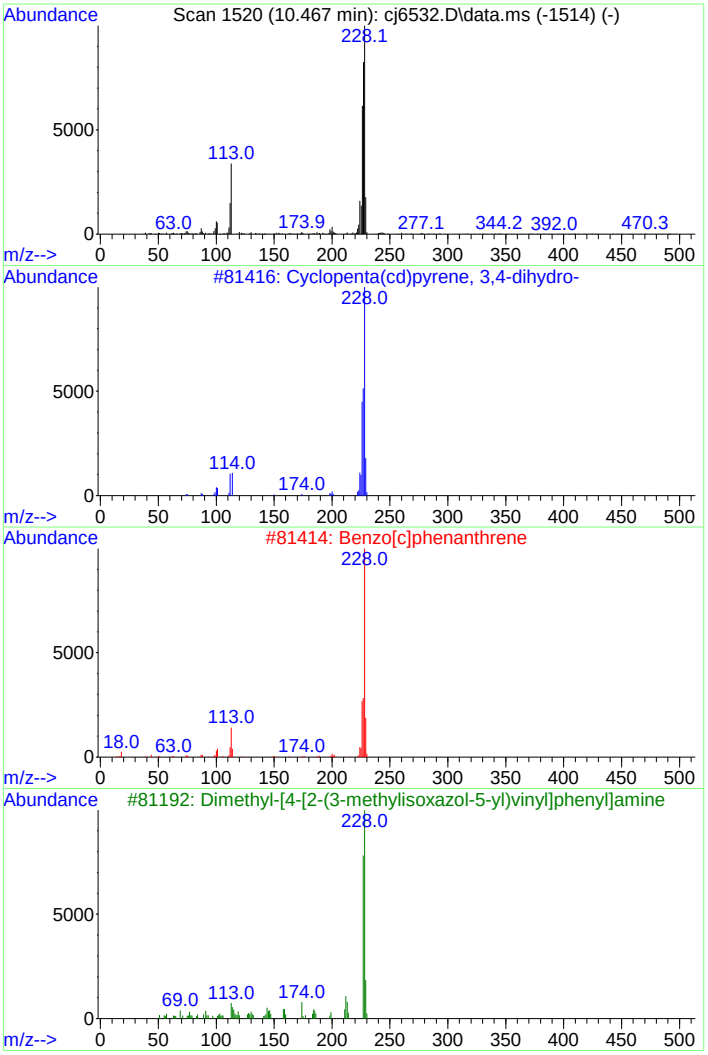
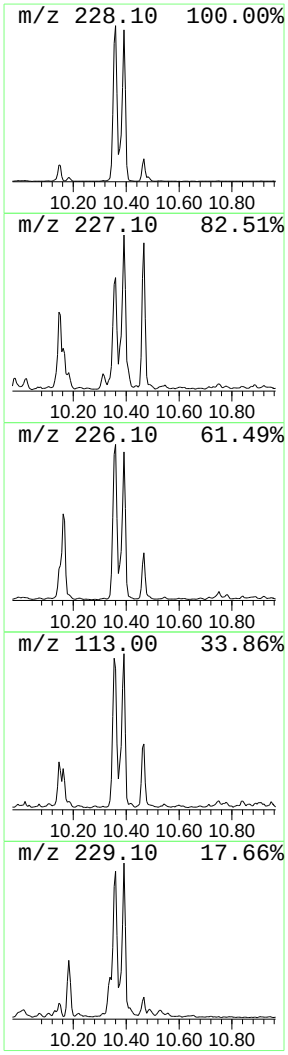
Peak Number 12 Unknown Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.467	4.90 ppm	786315	Chrysene-d12a	10.371

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	70
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	49
3	Dimethyl-[4-[2-(3-methylisoxazol...	228	C14H16N2O	1000306-39-6	47
4	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	47
5	Benz[a]anthracene	228	C18H12	000056-55-3	38





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Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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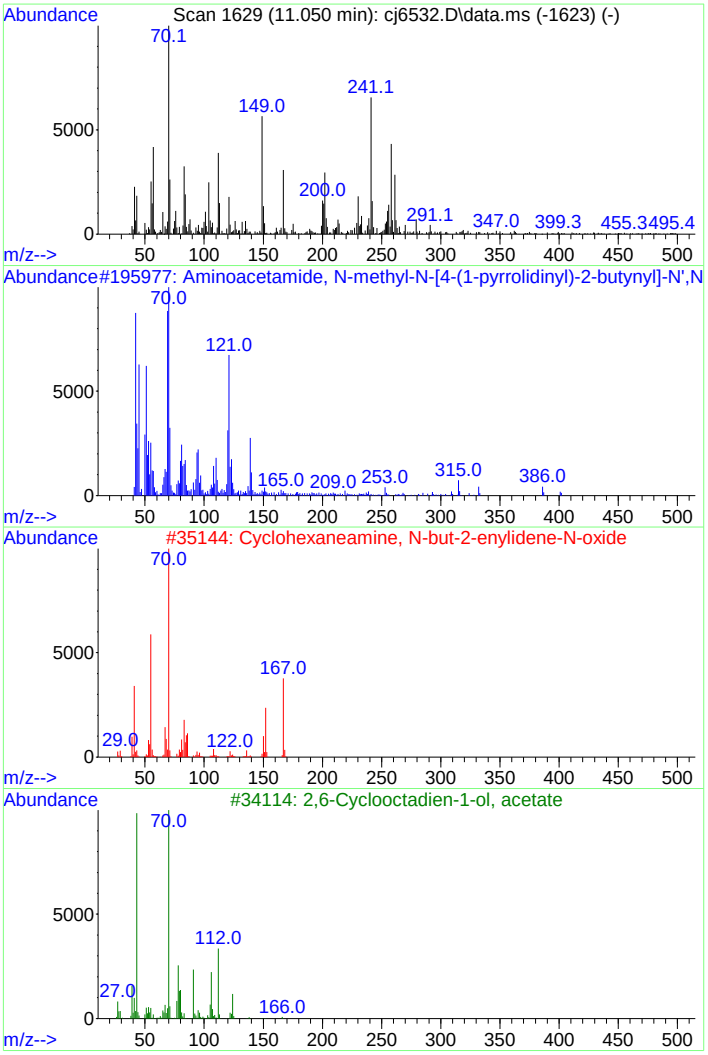
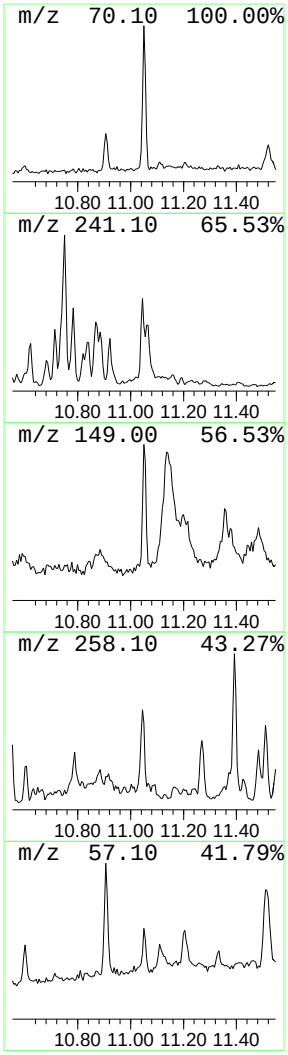
Peak Number 13 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.050	7.23 ppm	501058	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Aminoacetamide, N-methyl-N-[4-(1...	401	C15H17F6N3O3	1000124-07-5	15
2	Cyclohexaneamine, N-but-2-enylid...	167	C10H17NO	068048-01-1	14
3	2,6-Cyclooctadien-1-ol, acetate	166	C10H14O2	023346-42-1	12
4	2-Heptene, 3-methyl-	112	C8H16	003404-75-9	12
5	2-Propenoic acid, 2-methyl-, oct...	198	C12H22O2	002157-01-9	12





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Sample : jd87833-6
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ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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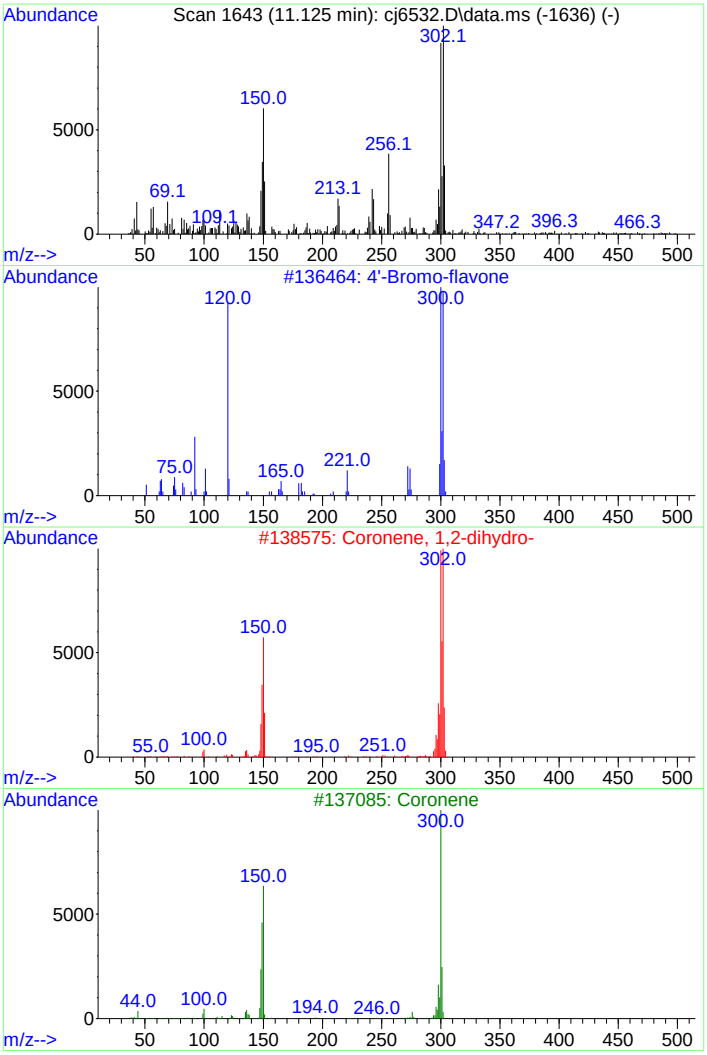
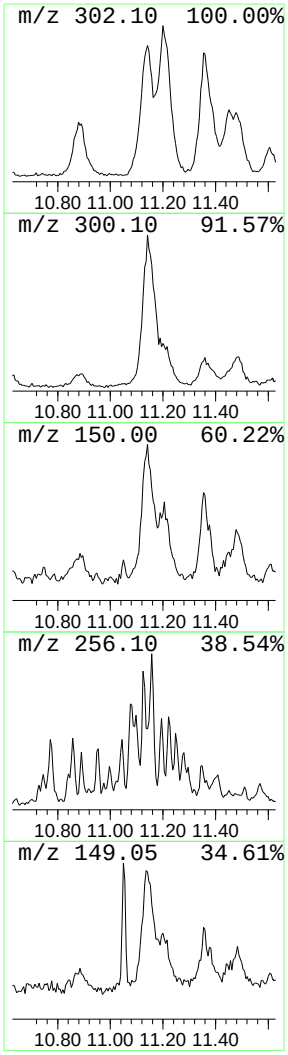
Peak Number 14 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.125	8.06 ppm	558604	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4'-Bromo-flavone	300	C15H9BrO2	020525-20-6	46
2	Coronene, 1,2-dihydro-	302	C24H14	107716-56-3	46
3	Coronene	300	C24H12	000191-07-1	42
4	1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	38
5	Coronene	300	C24H12	000191-07-1	38





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Sample : jd87833-6
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ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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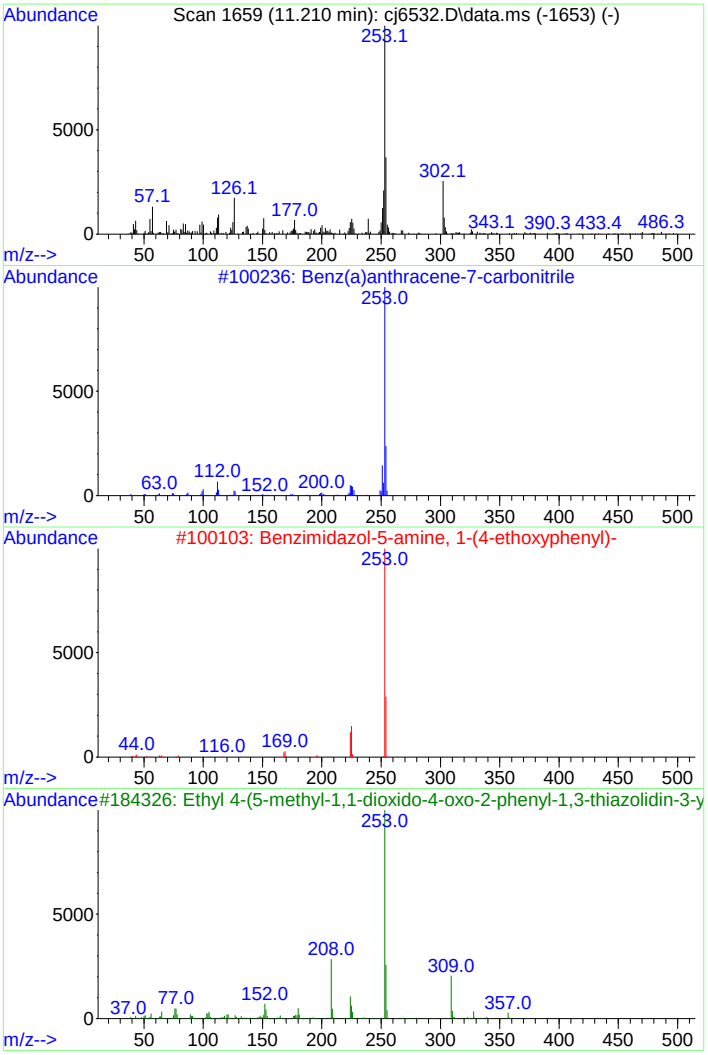
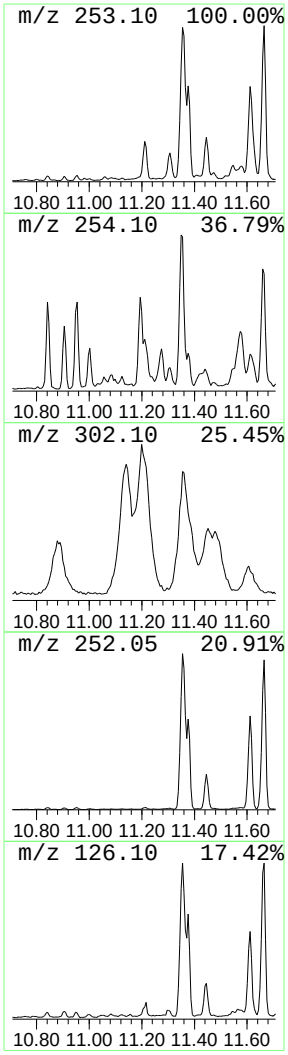
Peak Number 15 Unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.210	9.25 ppm	640690	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	58
2	Benzimidazol-5-amine, 1-(4-ethox...	253	C15H15N3O	007104-62-3	47
3	Ethyl 4-(5-methyl-1,1-dioxido-4-...	373	C19H19NO5S	1000294-64-6	46
4	2-Propen-1-one, 3-(4-nitrophenyl...	253	C15H11NO3	001222-98-6	40
5	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	37





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Sample : jd87833-6
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ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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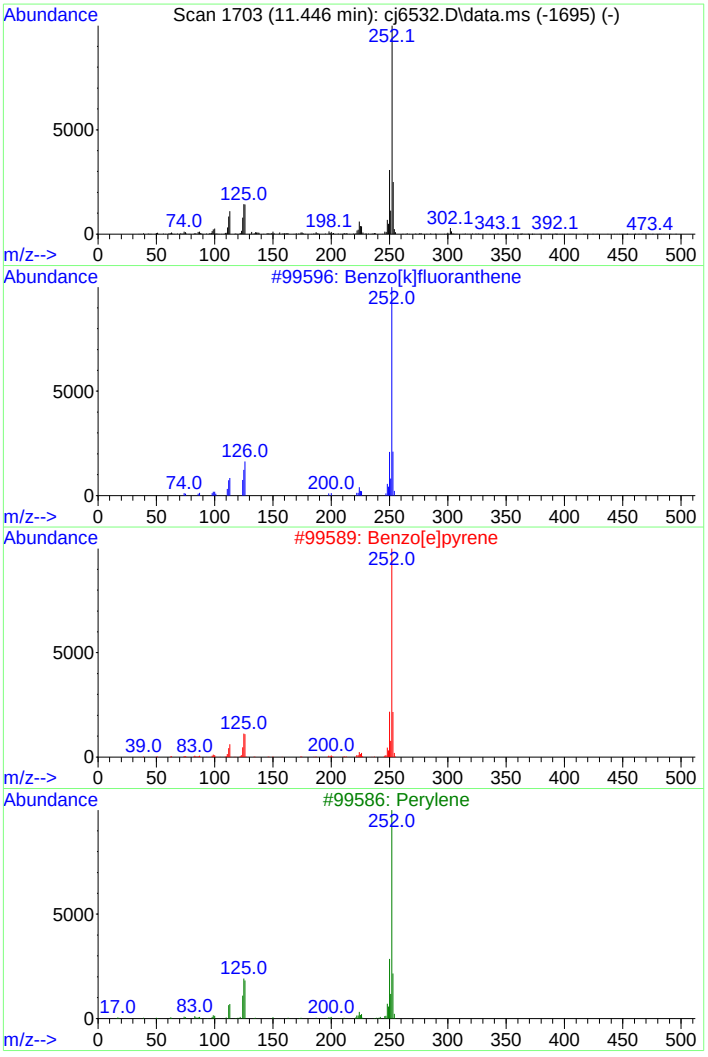
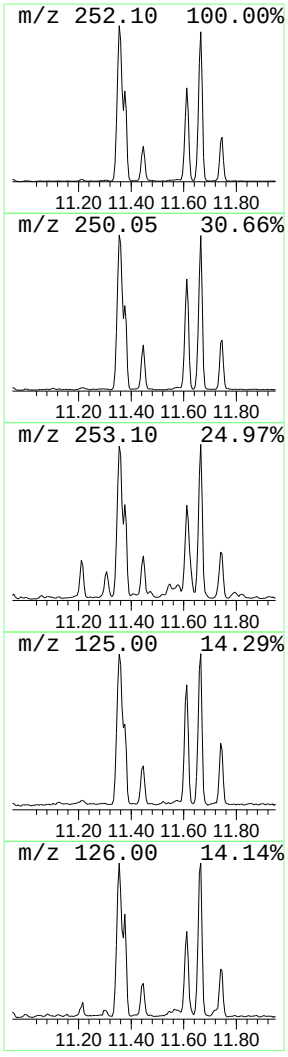
Peak Number 16 Unknown PHA substances Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.446	9.60 ppm	664997	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	99
2	Benzo[e]pyrene	252	C20H12	000192-97-2	98
3	Perylene	252	C20H12	000198-55-0	95
4	Perylene	252	C20H12	000198-55-0	95
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

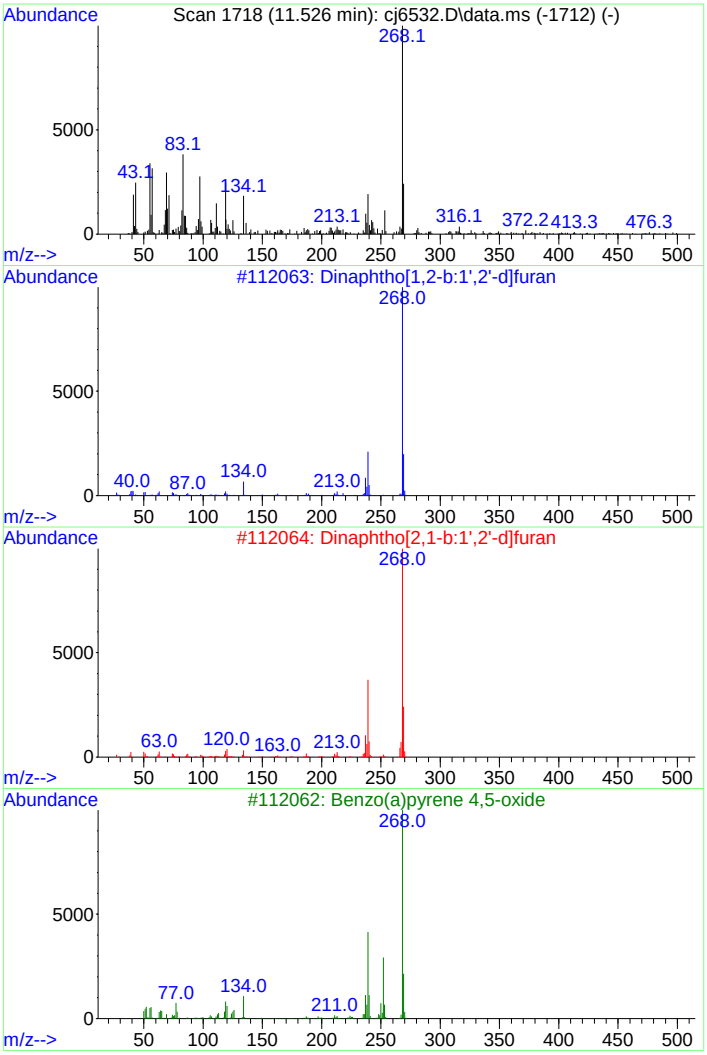
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

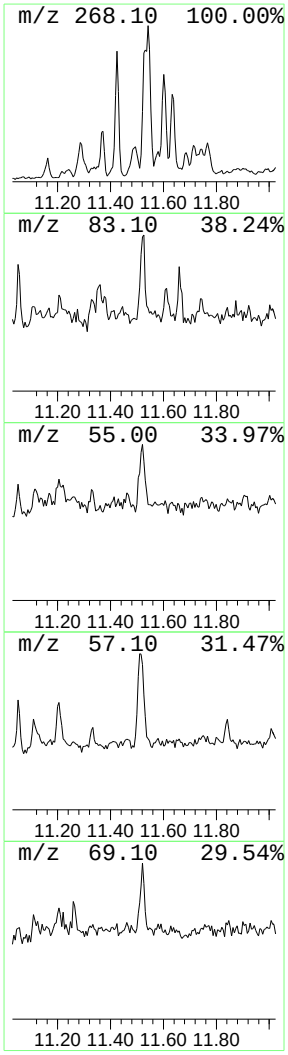
****

Peak Number 17 Unknown Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.526	4.70 ppm	325824	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	60
2	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	53
3	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	49
4	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	46
5	trans-4'-Methyl-4-(methylthio)ch...	268	C17H16OS	126443-27-4	43





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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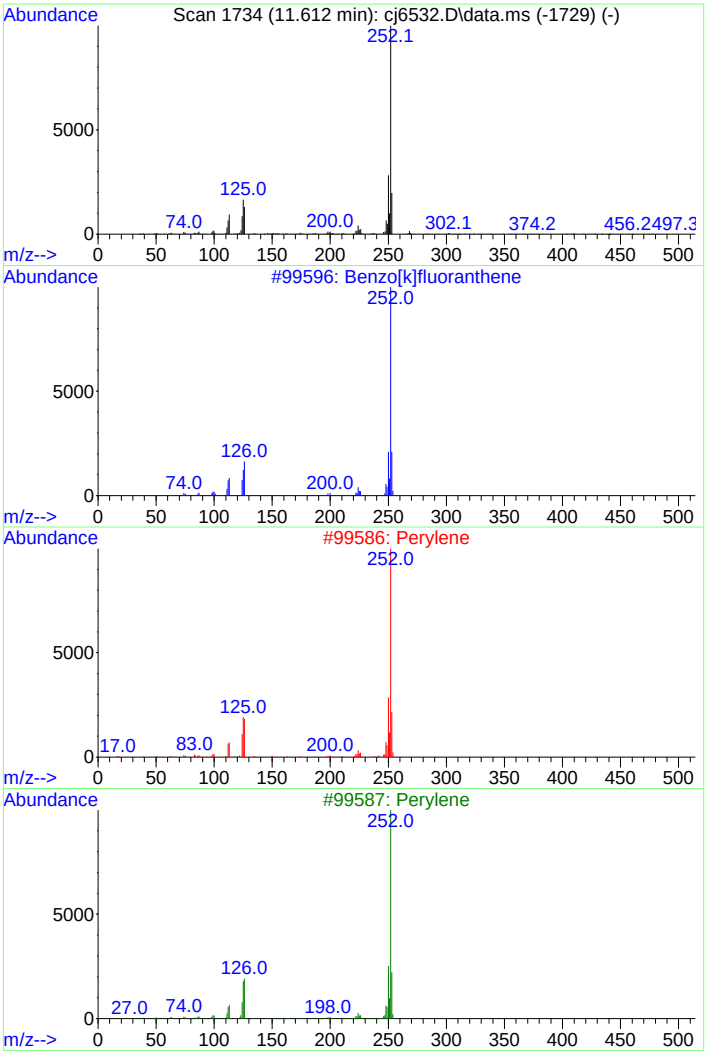
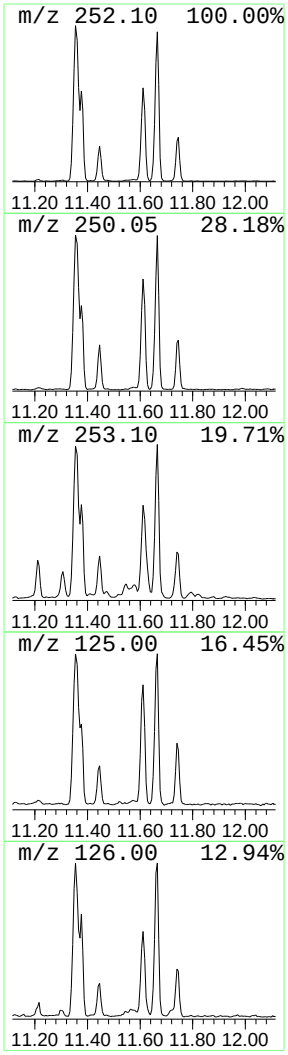
Peak Number 18 Unknown PHA Susbtance Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.612	26.25 ppm	1819140	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
2	Perylene	252	C20H12	000198-55-0	98
3	Perylene	252	C20H12	000198-55-0	98
4	Benzo[e]pyrene	252	C20H12	000192-97-2	97
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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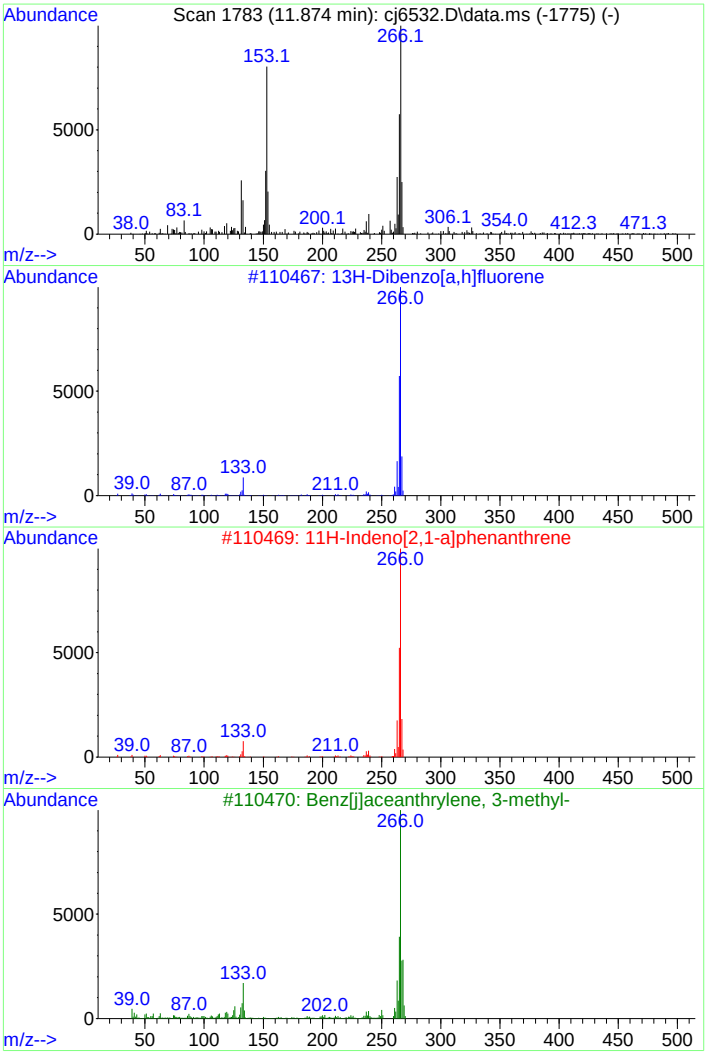
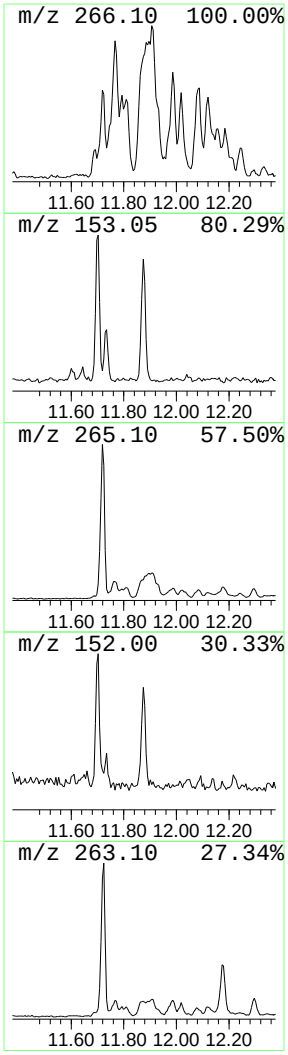
Peak Number 19 Unknown Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.874	5.23 ppm	362363	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	42
2	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	42
3	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	30
4	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	30
5	4,5-Dihydro-3H-dinaphtho[2,1-c:1...	295	C22H17N	1000297-99-2	25





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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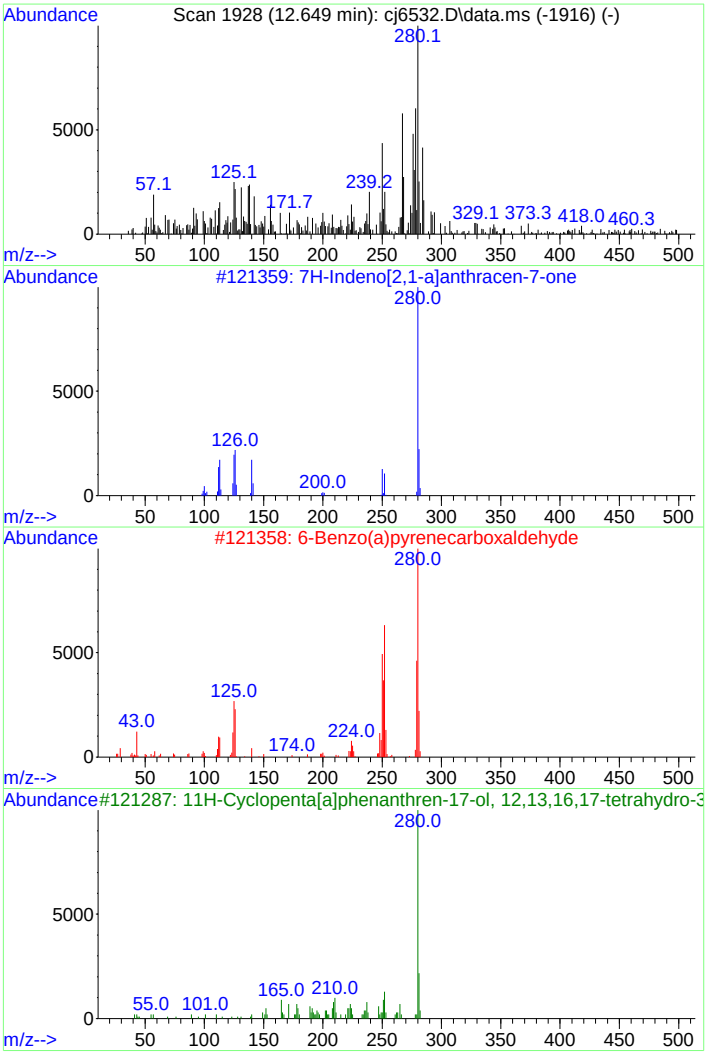
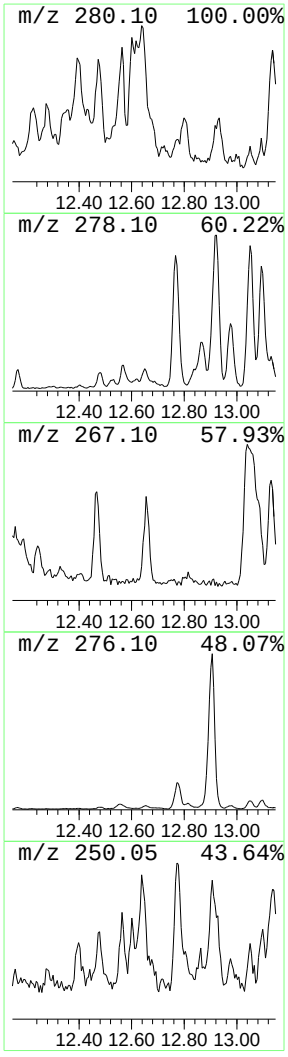
Peak Number 20 Unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.649	5.22 ppm	361404	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Indeno[2,1-a]anthracen-7-one	280	C21H12O	027582-45-2	60
2	6-Benzo(a)pyrenecarboxaldehyde	280	C21H12O	013312-42-0	59
3	11H-Cyclopenta[a]phenanthren-17-...	280	C19H20O2	033760-56-4	35
4	3,5-Dibromosalicylaldehyde	278	C7H4Br2O2	000090-59-5	27
5	Estra-1,3,5,7,9-pentaen-17-one, ...	280	C19H20O2	003907-67-3	25





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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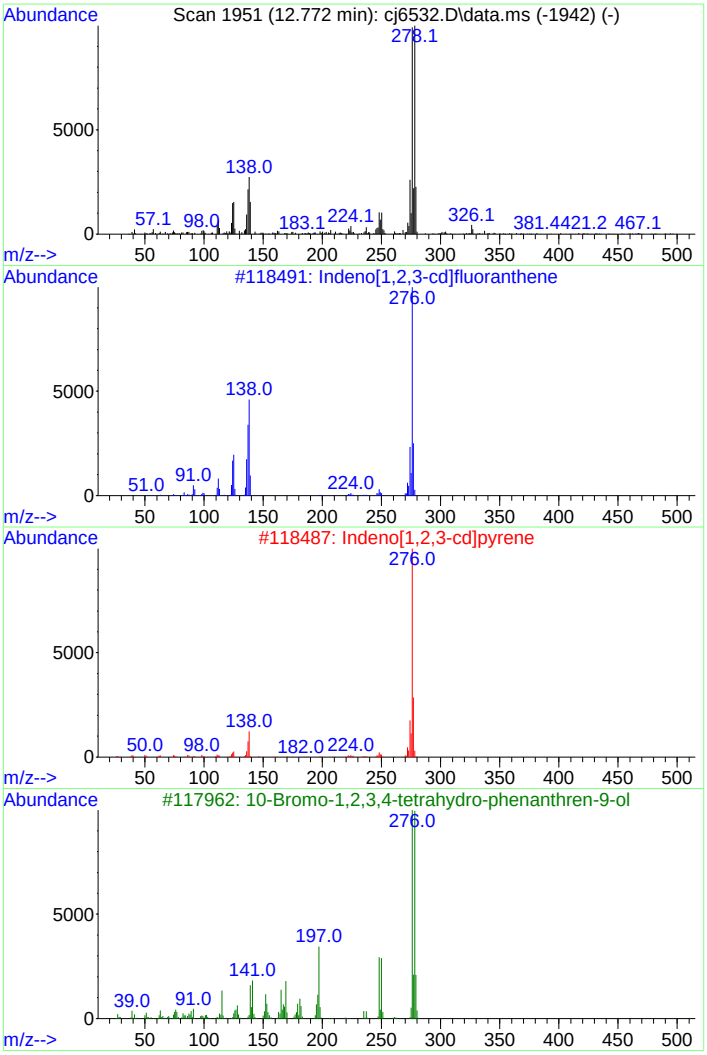
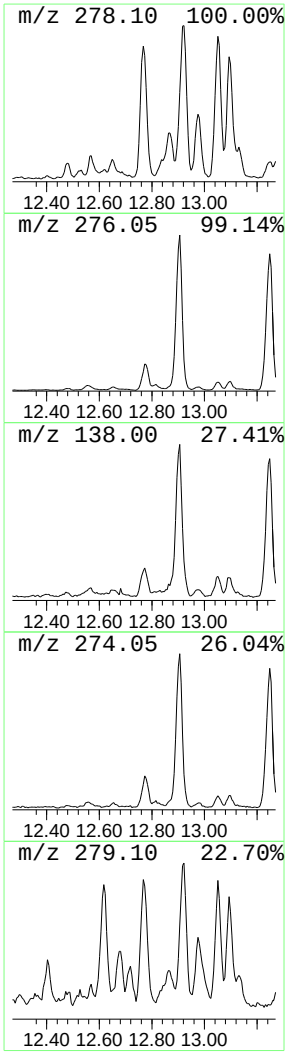
Peak Number 21 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.772	10.97 ppm	759927	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	90
2	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	70
3	10-Bromo-1,2,3,4-tetrahydro-phen...	276	C14H13BrO	1000190-54-9	68
4	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	64
5	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	50





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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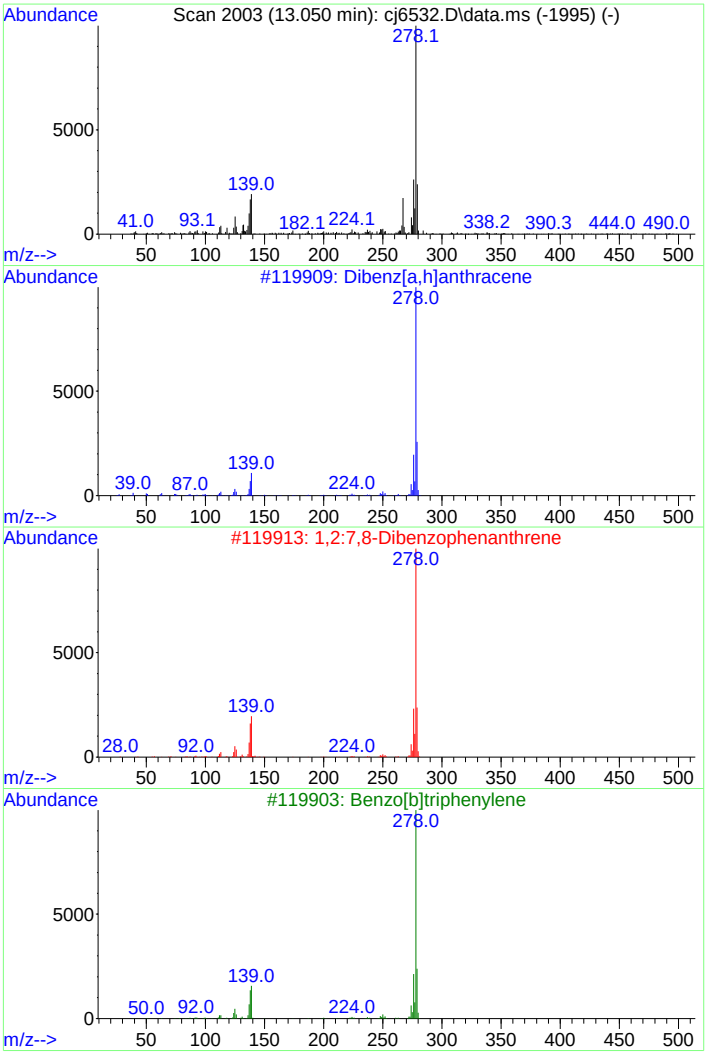
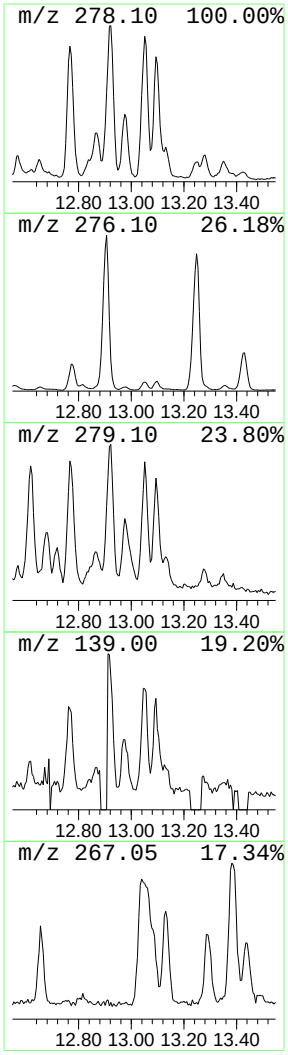
Peak Number 22 Unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.050	6.56 ppm	454574	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	93
2	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	93
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
4	Benzo[a]naphthacene	278	C22H14	000226-88-0	90
5	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	89





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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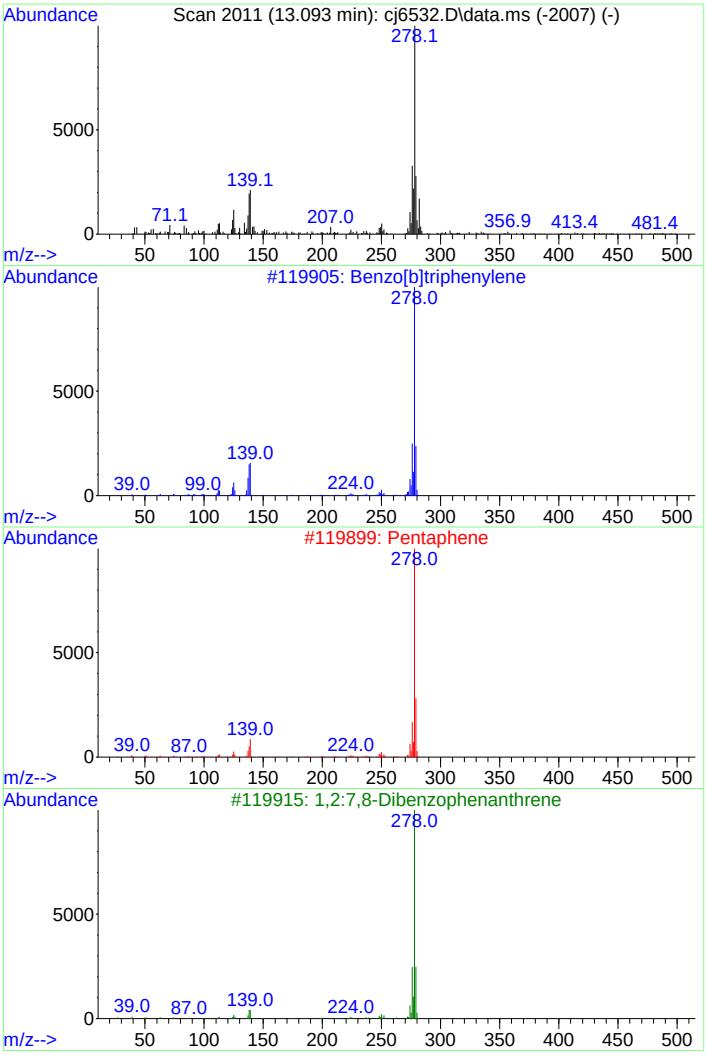
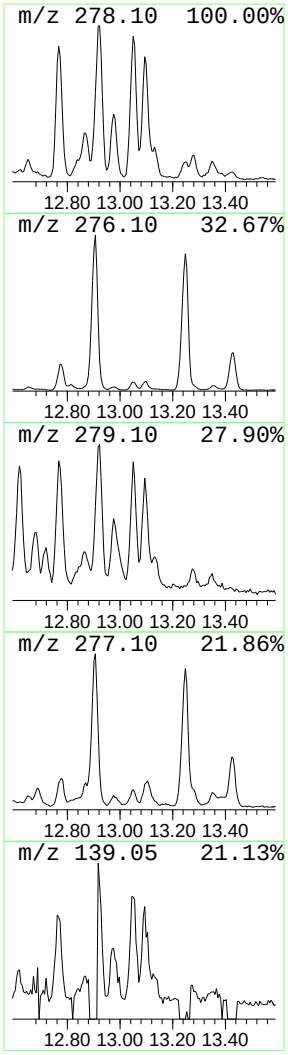
Peak Number 23 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.093	7.54 ppm	522426	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	94
2	Pentaphene	278	C22H14	000222-93-5	91
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	89
4	Quinoxaline, 6-(3-nitrobenzylide...	278	C15H10N4O2	302800-55-1	86
5	Benzo[b]chrysene	278	C22H14	000214-17-5	86





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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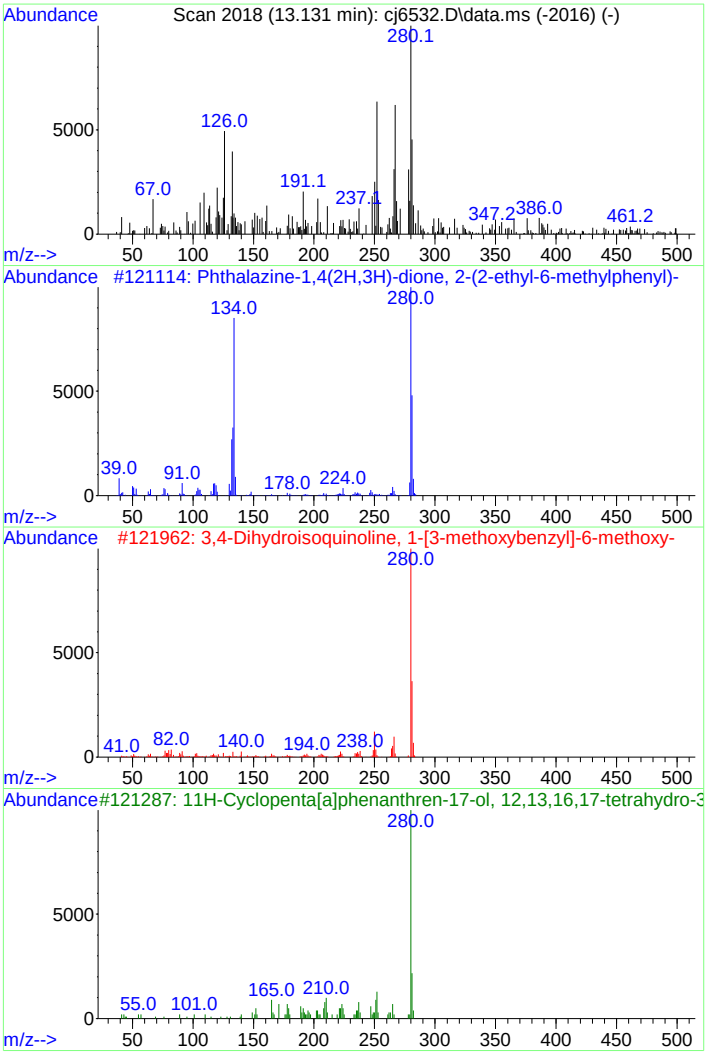
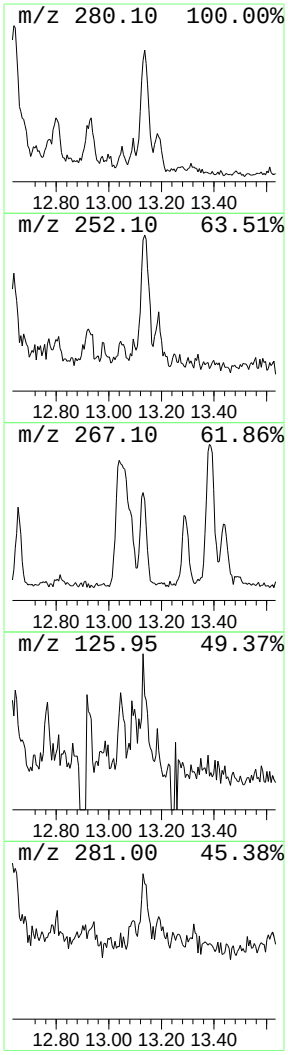
Peak Number 24 Unknown Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.131	4.71 ppm	326066	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phthalazine-1,4(2H,3H)-dione, 2-...	280	C17H16N2O2	298228-28-1	30
2	3,4-Dihydroisoquinoline, 1-[3-me...	281	C18H19NO2	1000126-16-1	27
3	11H-Cyclopenta[a]phenanthren-17-...	280	C19H20O2	033760-56-4	25
4	Pyrazolidinetrione, phenyl-, 4-(...	280	C15H12N4O2	021272-26-4	22
5	2,3-Dicyanodibenzo(f,h)quinoxaline	280	C18H8N4	055408-49-6	22





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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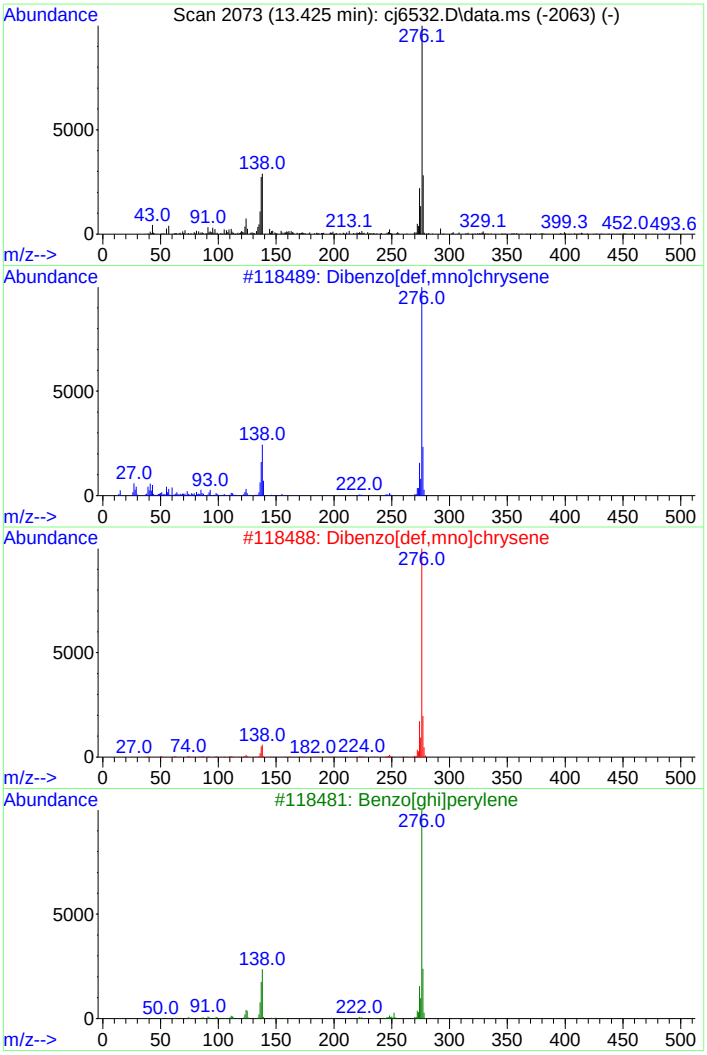
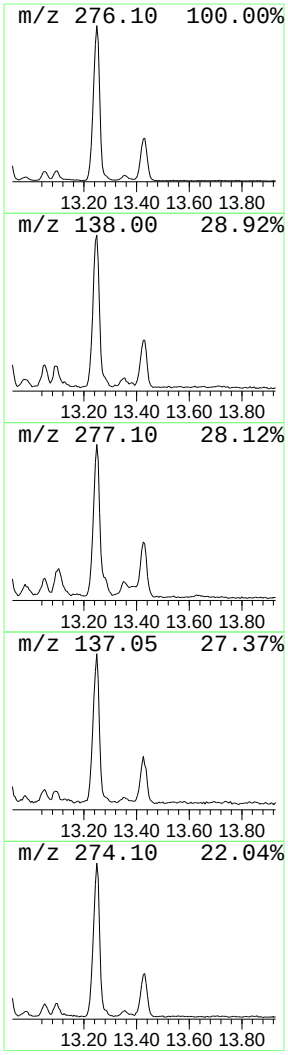
Peak Number 25 Unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.425	10.16 ppm	704259	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	93
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	91
3	Benzo[ghi]perylene	276	C22H12	000191-24-2	91
4	Benzo[ghi]perylene	276	C22H12	000191-24-2	91
5	Benzo[ghi]perylene	276	C22H12	000191-24-2	81





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6532.D
Acq On : 09 May 2024 10:22 pm
Operator : rocquans
Sample : jd87833-6
Misc : op54460,ecj297,30.9,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown ketone	4.246	10.3	ppm	545354	2	4.664	2117030	40.0
Unknown	4.487	6.0	ppm	316166	2	4.664	2117030	40.0
Anthracene, methyl	8.322	5.5	ppm	463845	8	7.873	3390310	40.0
Anthracene, methyl	8.344	6.0	ppm	511723	8	7.873	3390310	40.0
4H-Cyclopenta[d...	8.424	15.3	ppm	1295010	8	7.873	3390310	40.0
Naphthalene, ph...	8.600	7.0	ppm	591716	8	7.873	3390310	40.0
Phenanthrene, d...	8.836	5.0	ppm	424902	8	7.873	3390310	40.0
Unknown	8.910	5.2	ppm	442972	8	7.873	3390310	40.0
Unknown	9.119	5.0	ppm	422919	8	7.873	3390310	40.0
Pyrene, methyl	9.515	8.0	ppm	1291140	9	10.371	6421960	40.0
Fluoranthene, m...	9.584	4.9	ppm	781225	9	10.371	6421960	40.0
Unknown	10.467	4.9	ppm	786315	10	10.371	6421960	40.0
Unknown	11.050	7.2	ppm	501058	11	11.719	2771570	40.0
Unknown	11.125	8.1	ppm	558604	11	11.719	2771570	40.0
Unknown	11.210	9.3	ppm	640690	11	11.719	2771570	40.0
Unknown PHA sub...	11.446	9.6	ppm	664997	11	11.719	2771570	40.0
Unknown	11.526	4.7	ppm	325824	11	11.719	2771570	40.0
Unknown PHA Sus...	11.612	26.3	ppm	1819140	11	11.719	2771570	40.0
Unknown	11.874	5.2	ppm	362363	11	11.719	2771570	40.0
Unknown	12.649	5.2	ppm	361404	11	11.719	2771570	40.0
Unknown	12.772	11.0	ppm	759927	11	11.719	2771570	40.0
Unknown	13.050	6.6	ppm	454574	11	11.719	2771570	40.0
Unknown	13.093	7.5	ppm	522426	11	11.719	2771570	40.0
Unknown	13.131	4.7	ppm	326066	11	11.719	2771570	40.0
Unknown	13.425	10.2	ppm	704259	11	11.719	2771570	40.0

Manual Integrations APPROVED
(compounds with "m" flag)
Jon Kreigmor Mamanta
05/13/24 01:29

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7 Inst : GCMSCJ
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: May 10 20:01:25 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

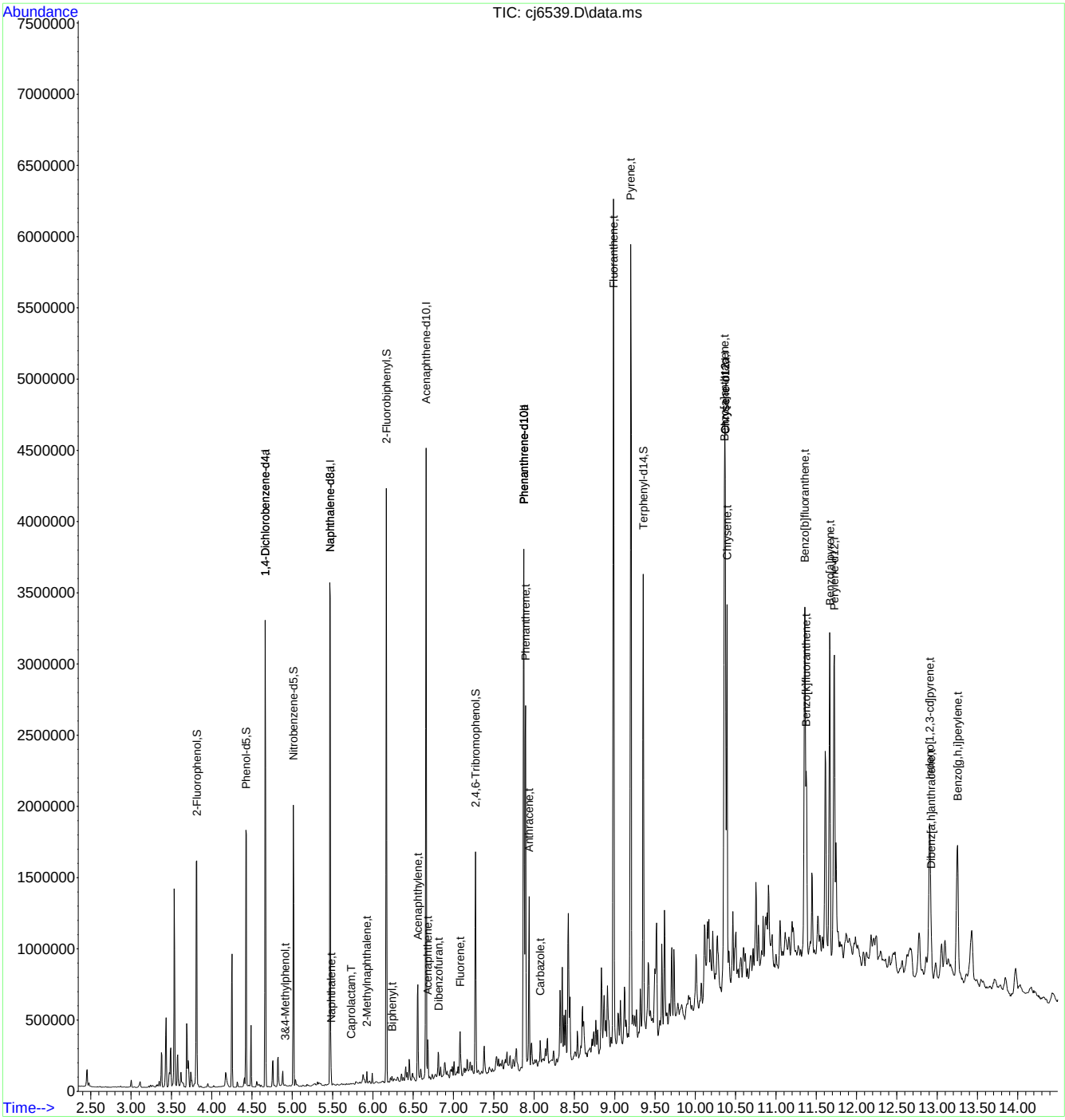
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.664	152	337378	40.00	ppm	0.00
24) Naphthalene-d8	5.472	136	1172941	40.00	ppm	0.00
46) Acenaphthene-d10	6.659	164	648873	40.00	ppm	0.00
69) Phenanthrene-d10	7.873	188	1146583	40.00	ppm	0.00
84) Chrysene-d12	10.371	240	810452	40.00	ppm	0.00
93) Perylene-d12	11.724	264	846065	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.664	152	337378	40.00	ppm	0.00
105) Phenanthrene-d10a	7.873	188	1146583	40.00	ppm	0.00
107) Naphthalene-d8a	5.472	136	1172941	40.00	ppm	0.00
109) Phenanthrene-d10b	7.873	188	1146583	40.00	ppm	0.00
112) Chrysene-d12a	10.371	240	810452	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.813	112	317877	32.78	ppm	0.02
Spiked Amount 50.000			Recovery =	65.56%		
8) Phenol-d5	4.429	99	447808	35.80	ppm	0.01
Spiked Amount 50.000			Recovery =	71.60%		
25) Nitrobenzene-d5	5.012	82	431292	35.91	ppm	0.00
Spiked Amount 50.000			Recovery =	71.82%		
51) 2-Fluorobiphenyl	6.167	172	805482	39.45	ppm	0.00
Spiked Amount 50.000			Recovery =	78.90%		
74) 2,4,6-Tribromophenol	7.274	330	112010	44.56	ppm	0.00
Spiked Amount 50.000			Recovery =	89.12%		
87) Terphenyl-d14	9.355	244	794684	39.69	ppm	0.00
Spiked Amount 50.000			Recovery =	79.38%		
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
21) 3&4-Methylphenol	4.910	108	1426	0.1481	ppm	97
38) Naphthalene	5.482	128	30123	1.0721	ppm	99
44) 2-Methylnaphthalene	5.926	141	12361	0.7420	ppm	96
53) Biphenyl	6.236	154	7871	0.3530	ppm	98
56) Acenaphthylene	6.557	152	242867	9.6502	ppm	100
59) Acenaphthene	6.680	153	52121	2.9122	ppm	94
62) Dibenzofuran	6.814	168	46122	1.8570	ppm	92
66) Fluorene	7.082	166	91505	4.6638	ppm	97
78) Phenanthrene	7.895	178	814900	29.4085	ppm	99
79) Anthracene	7.937	178	384725	13.8661	ppm	96
80) Carbazole	8.076	167	52401	2.0268	ppm	98
82) Fluoranthene	8.986	202	2008227	66.9434	ppm	98
86) Pyrene	9.200	202	2038078	73.9445	ppm	99
89) Benzo[a]anthracene	10.360	228	1008398	38.6981	ppm	95
91) Chrysene	10.392	228	840136	34.9447	ppm	97
95) Benzo[b]fluoranthene	11.361	252	1170676m	45.8038	ppm	
96) Benzo[k]fluoranthene	11.377	252	388551m	16.8947	ppm	
97) Benzo[a]pyrene	11.671	252	925718	43.7528	ppm	100
98) Indeno[1,2,3-cd]pyrene	12.906	276	588878	23.0227	ppm	99
100) Dibenz[a,h]anthracene	12.922	278	149257	7.3030	ppm	91
102) Benzo[g,h,i]perylene	13.254	276	556595	28.0019	ppm	97
108) Caprolactam	5.728	55	1445	0.2900	ppm	81

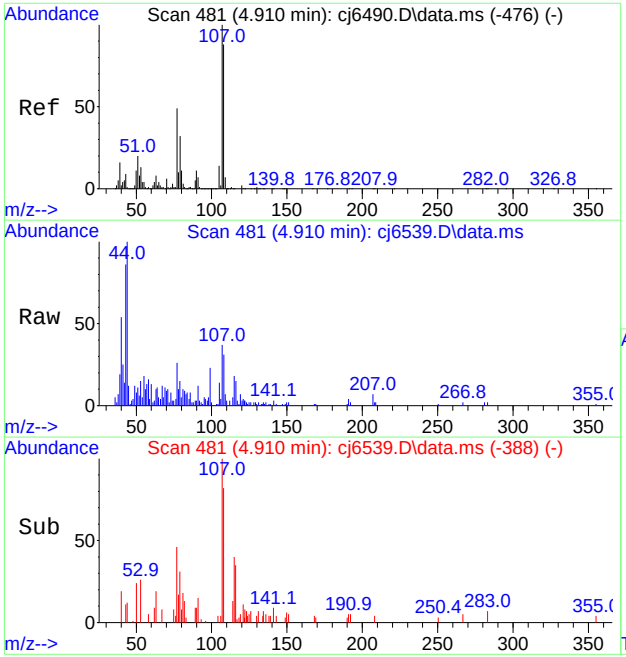
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7 Inst : GCMSCJ
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: May 10 20:01:25 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

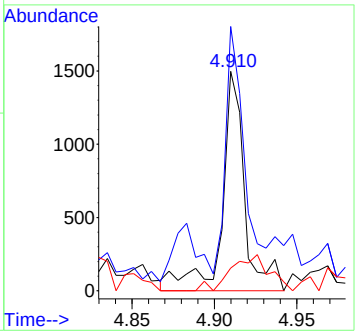


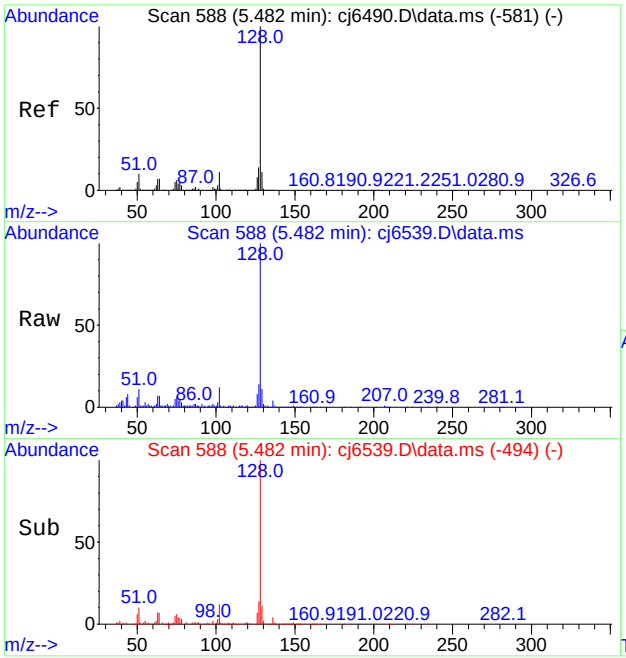


#21
3&4-Methylphenol
Concen: 0.1481 ppm
RT: 4.910 min Scan# 481
Delta R.T. -0.000 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:108 Resp: 1426

Ion	Ratio	Lower	Upper
108	100		
107	110.8	83.2	143.2
90	8.6	0.0	42.4

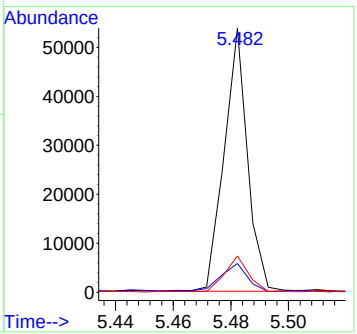


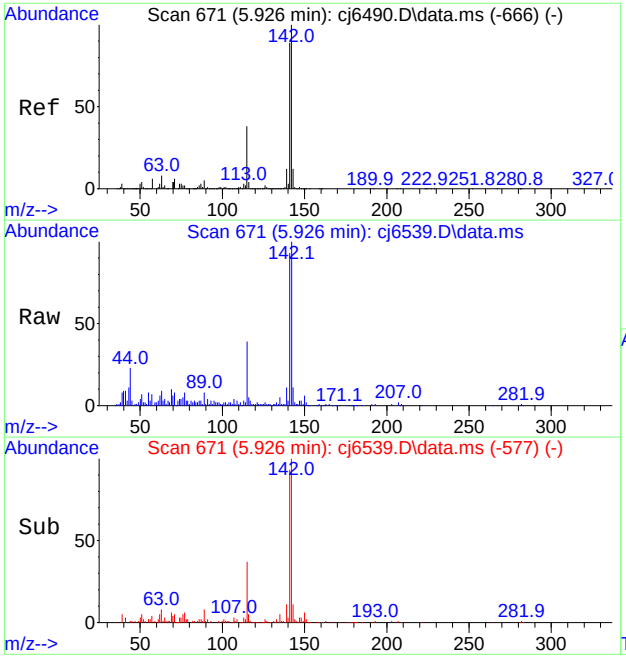


#38
Naphthalene
Concen: 1.0721 ppm
RT: 5.482 min Scan# 588
Delta R.T. 0.000 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:128 Resp: 30123

Ion	Ratio	Lower	Upper
128	100		
129	10.4	0.0	41.4
127	13.5	0.0	43.3

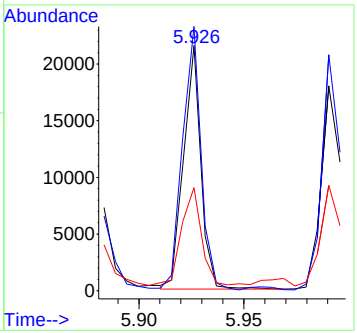


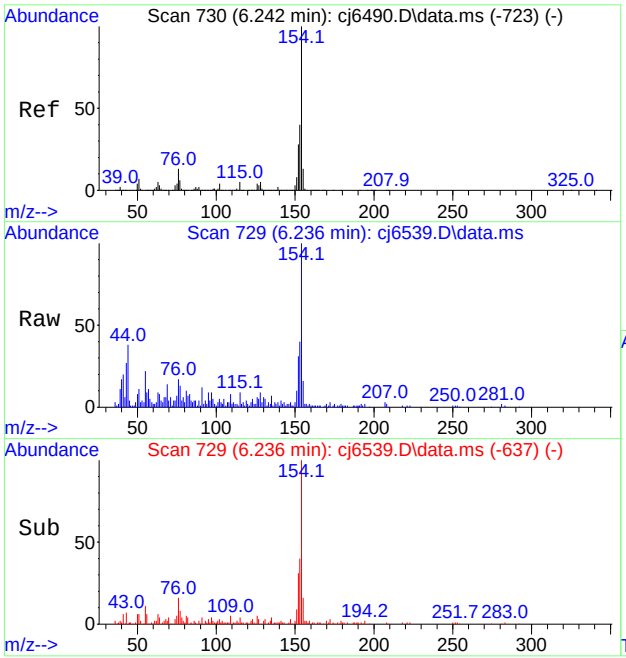


#44
2-Methylnaphthalene
Concen: 0.7420 ppm
RT: 5.926 min Scan# 671
Delta R.T. 0.000 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:141 Resp: 12361

Ion	Ratio	Lower	Upper
141	100		
142	109.0	82.7	142.7
115	38.5	12.4	72.4

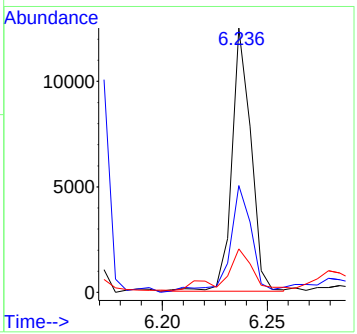


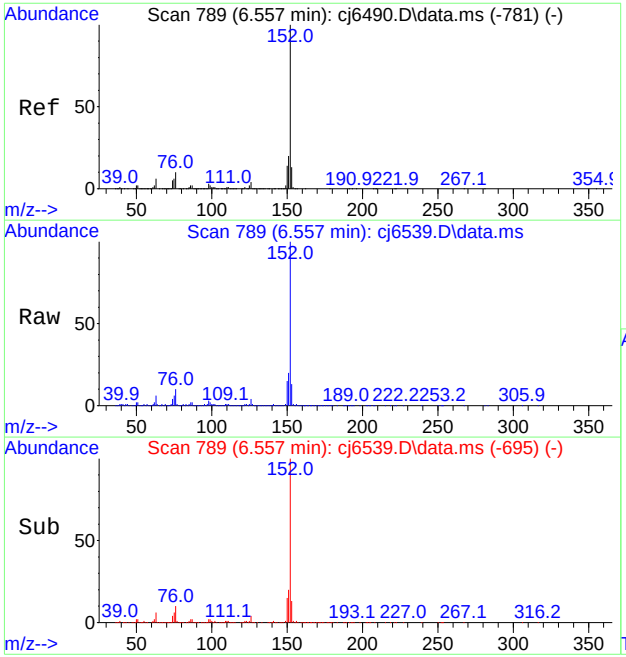


#53
Biphenyl
Concen: 0.3530 ppm
RT: 6.236 min Scan# 729
Delta R.T. -0.006 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:154 Resp: 7871

Ion	Ratio	Lower	Upper
154	100		
153	39.8	10.5	70.5
155	15.1	0.0	42.8

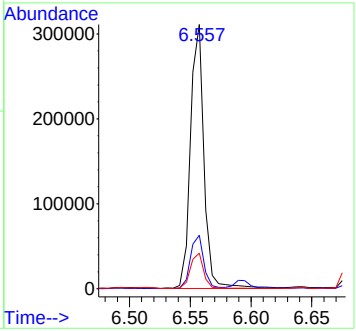


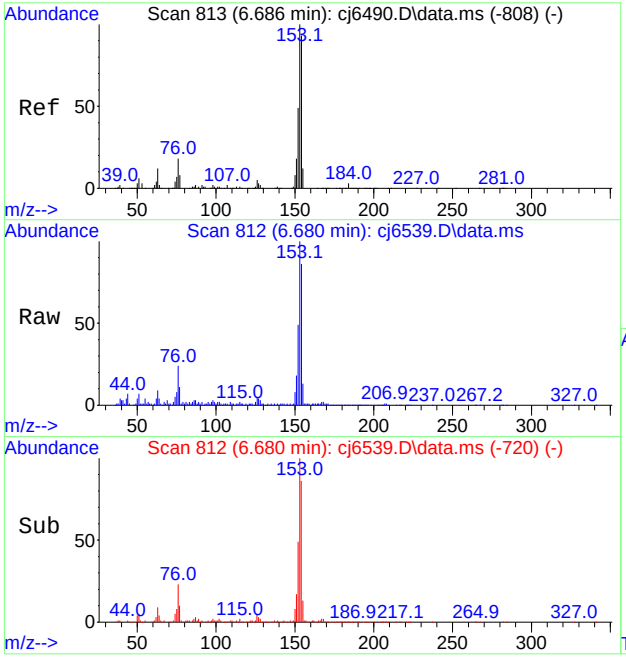


#56
Acenaphthylene
Concen: 9.6502 ppm
RT: 6.557 min Scan# 789
Delta R.T. 0.000 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:152 Resp: 242867

Ion	Ratio	Lower	Upper
152	100		
151	20.1	0.0	50.3
153	13.3	0.0	43.4

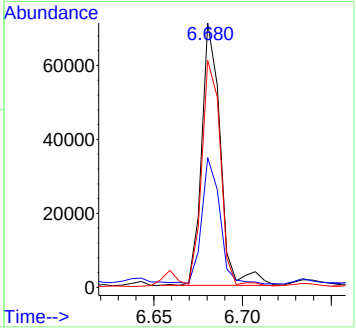


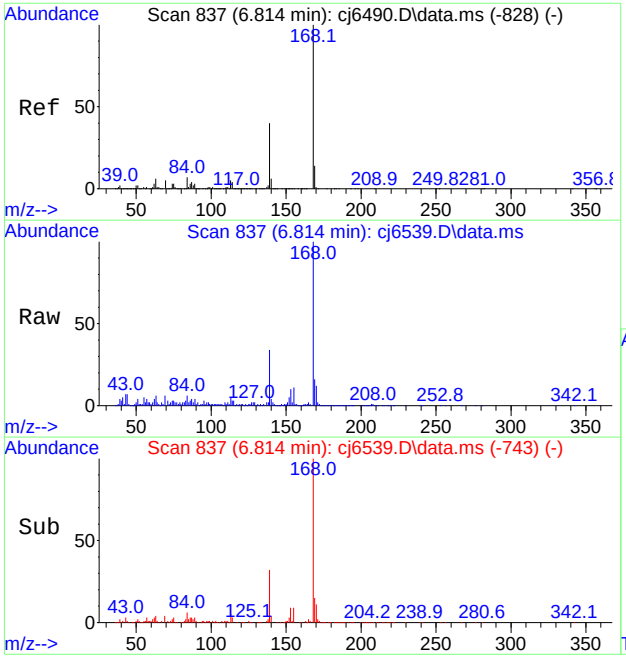


#59
Acenaphthene
Concen: 2.9122 ppm
RT: 6.680 min Scan# 812
Delta R.T. -0.006 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:153 Resp: 52121

Ion	Ratio	Lower	Upper
153	100		
152	47.8	18.8	78.8
154	84.8	62.9	122.9

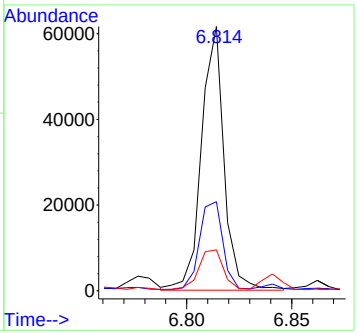


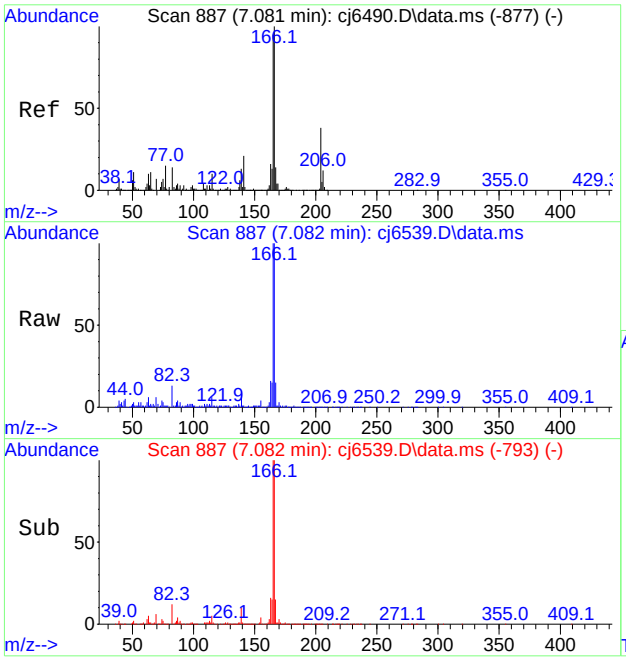


#62
Dibenzofuran
Concen: 1.8570 ppm
RT: 6.814 min Scan# 837
Delta R.T. 0.000 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:168 Resp: 46122

Ion	Ratio	Lower	Upper
168	100		
139	33.5	10.0	70.0
169	13.9	0.0	43.7

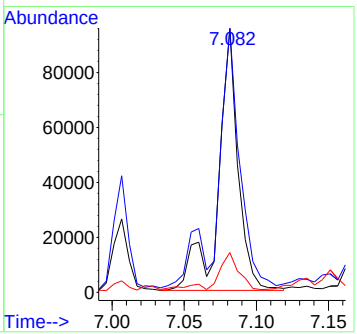


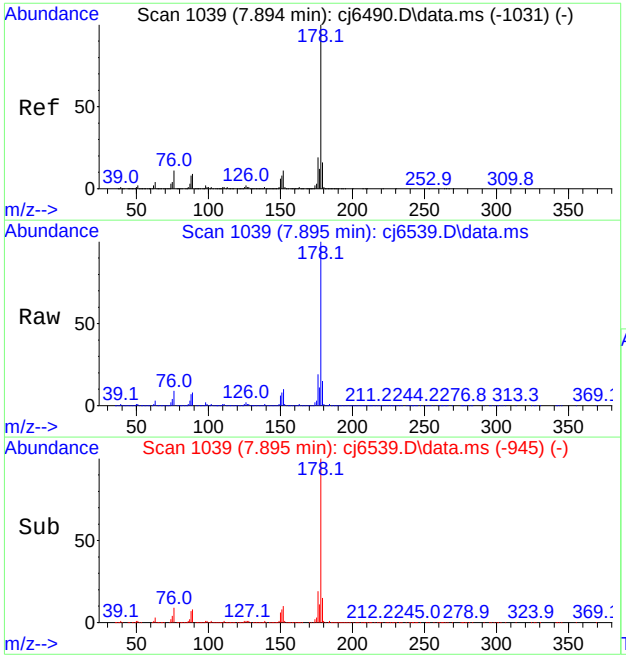


#66
Fluorene
Concen: 4.6638 ppm
RT: 7.082 min Scan# 887
Delta R.T. 0.001 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:166 Resp: 91505

Ion	Ratio	Lower	Upper
166	100		
165	99.0	65.4	125.4
167	13.4	0.0	43.8

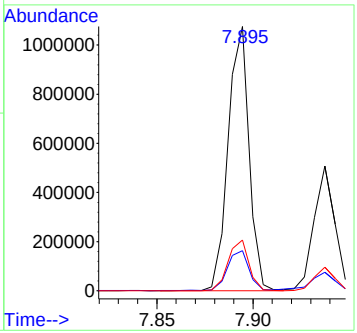


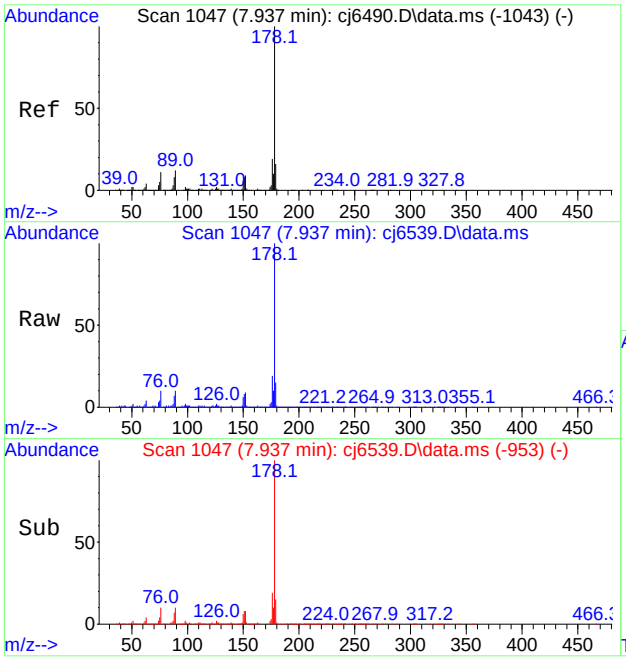


#78
Phenanthrene
Concen: 29.4085 ppm
RT: 7.895 min Scan# 1039
Delta R.T. 0.001 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:178 Resp: 814900

Ion	Ratio	Lower	Upper
178	100		
179	14.8	0.0	45.5
176	19.1	0.0	49.2

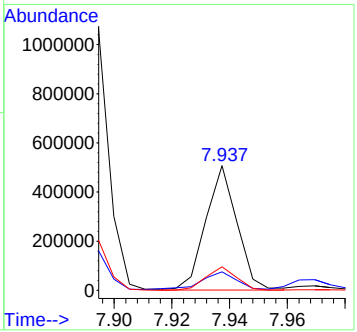


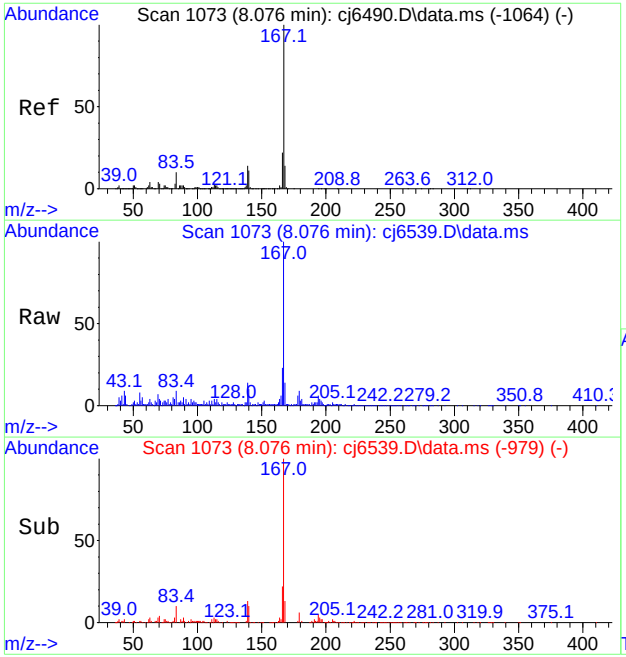


#79
Anthracene
Concen: 13.8661 ppm
RT: 7.937 min Scan# 1047
Delta R.T. 0.000 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:178 Resp: 384725

Ion	Ratio	Lower	Upper
178	100		
179	12.9	0.0	46.1
176	19.0	0.0	48.7

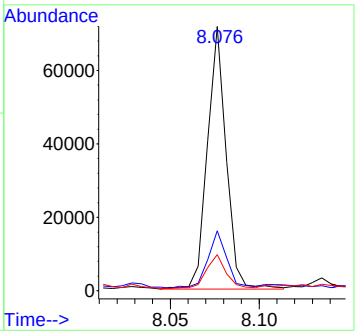


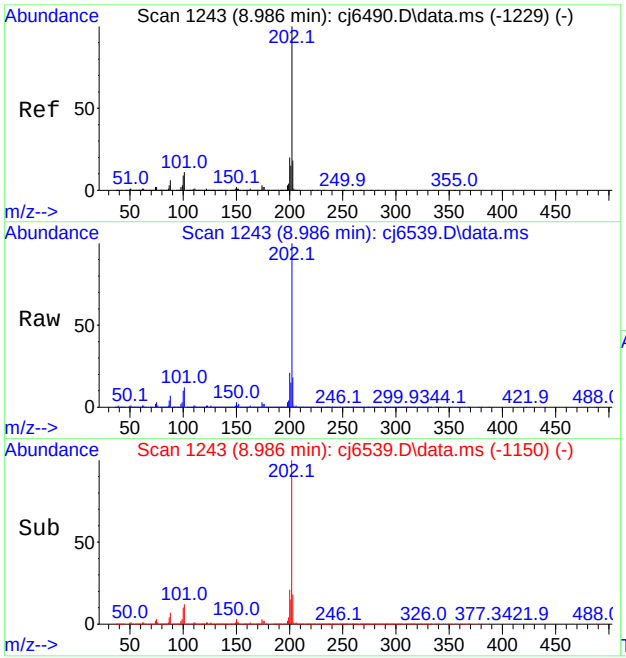


#80
Carbazole
Concen: 2.0268 ppm
RT: 8.076 min Scan# 1073
Delta R.T. 0.000 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:167 Resp: 52401

Ion	Ratio	Lower	Upper
167	100		
166	21.1	0.0	51.7
139	12.3	0.0	43.8

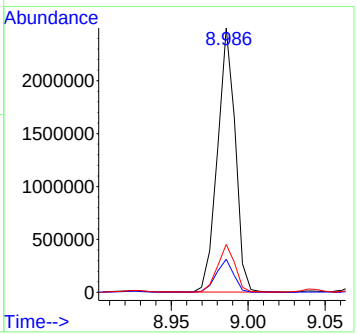


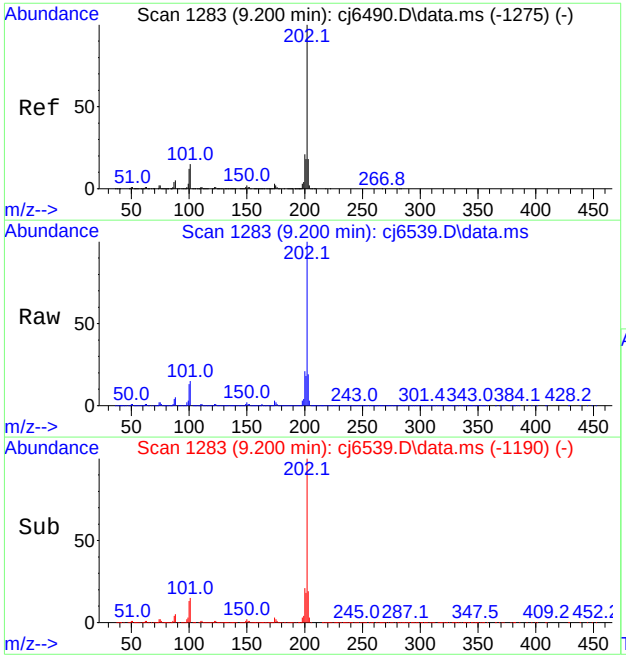


#82
Fluoranthene
Concen: 66.9434 ppm
RT: 8.986 min Scan# 1243
Delta R.T. -0.000 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:202 Resp: 2008227

Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	41.4
203	18.0	0.0	47.6

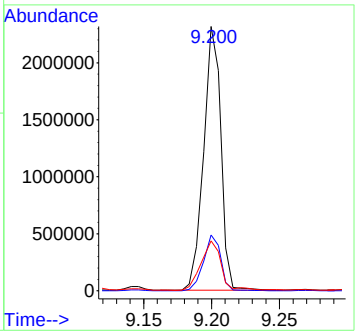


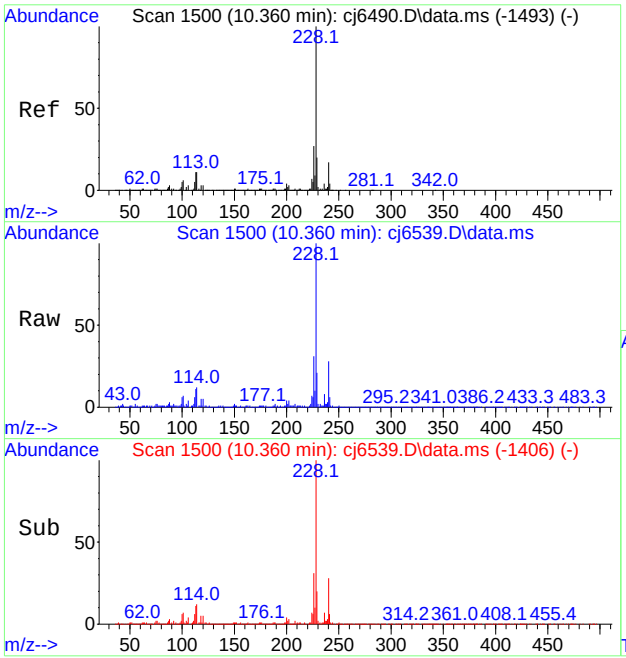


#86
Pyrene
Concen: 73.9445 ppm
RT: 9.200 min Scan# 1283
Delta R.T. -0.000 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:202 Resp: 2038078

Ion	Ratio	Lower	Upper
202	100		
200	21.1	0.0	51.4
203	18.7	0.0	47.8

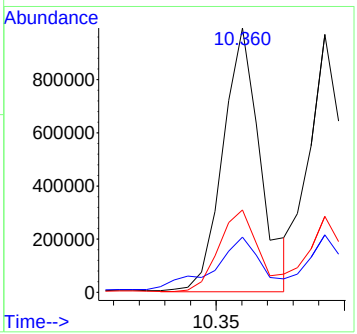


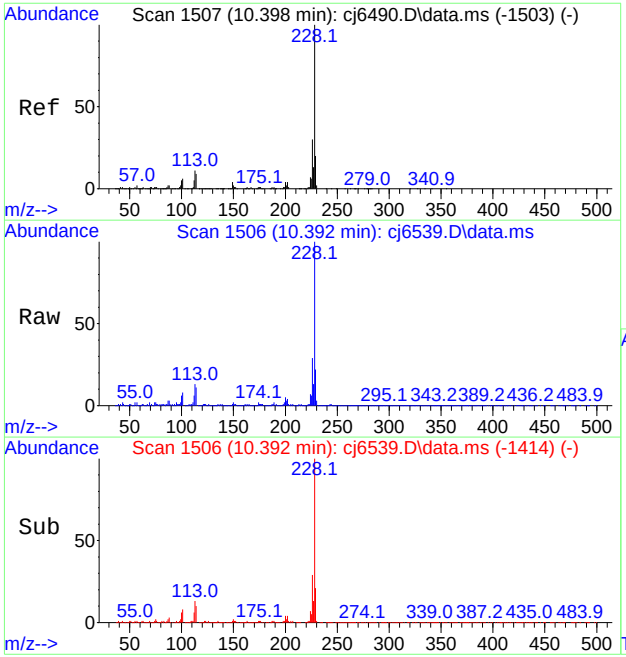


#89
Benzo[a]anthracene
Concen: 38.6981 ppm
RT: 10.360 min Scan# 1500
Delta R.T. 0.000 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:228 Resp: 1008398

Ion	Ratio	Lower	Upper
228	100		
229	19.3	0.0	49.8
226	30.9	0.0	57.1

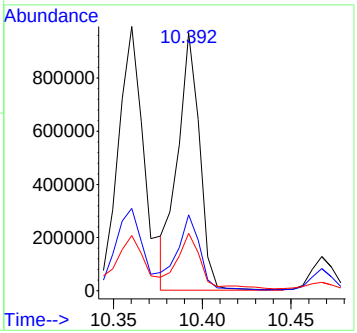


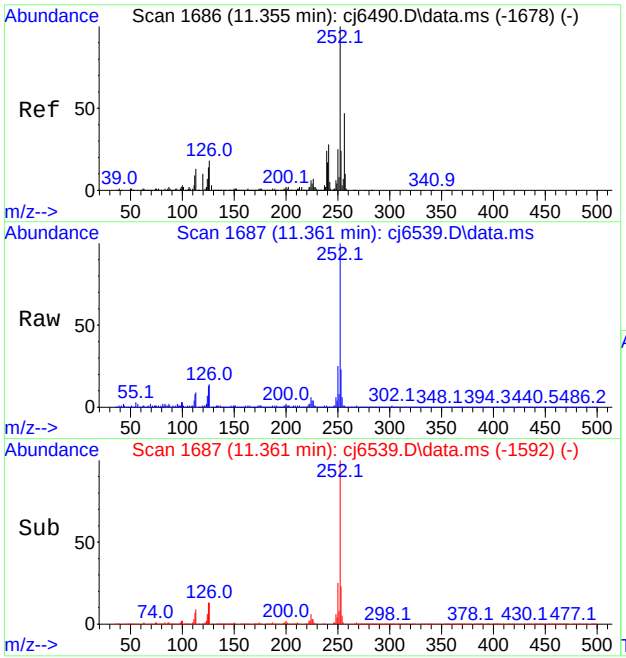


#91
Chrysene
Concen: 34.9447 ppm
RT: 10.392 min Scan# 1506
Delta R.T. -0.006 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:228 Resp: 840136

Ion	Ratio	Lower	Upper
228	100		
226	28.8	0.0	59.9
229	21.6	0.0	49.8

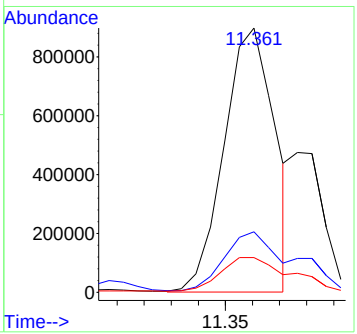


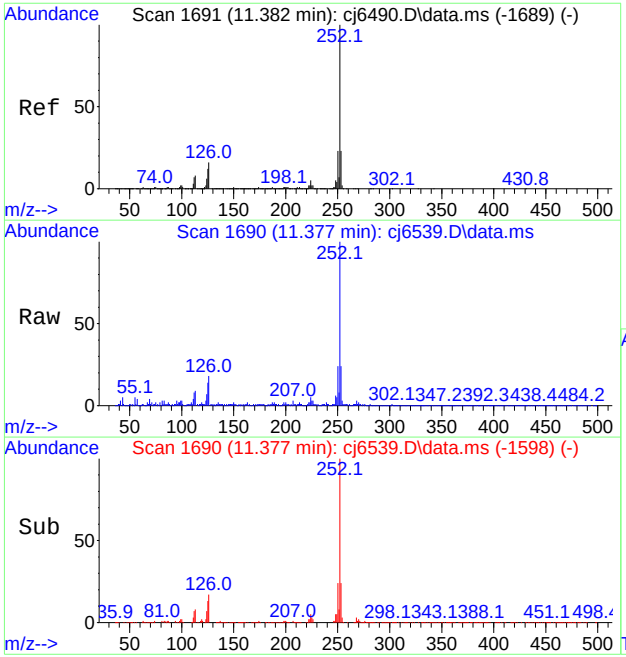


#95
Benzo[b]fluoranthene
Concen: 45.8038 ppm m
RT: 11.361 min Scan# 1687
Delta R.T. 0.006 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:252 Resp: 1170676

Ion	Ratio	Lower	Upper
252	100		
253	22.9	0.0	54.7
125	13.2	0.0	44.2

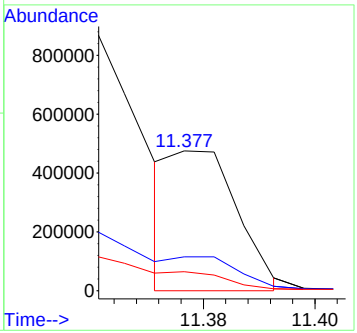


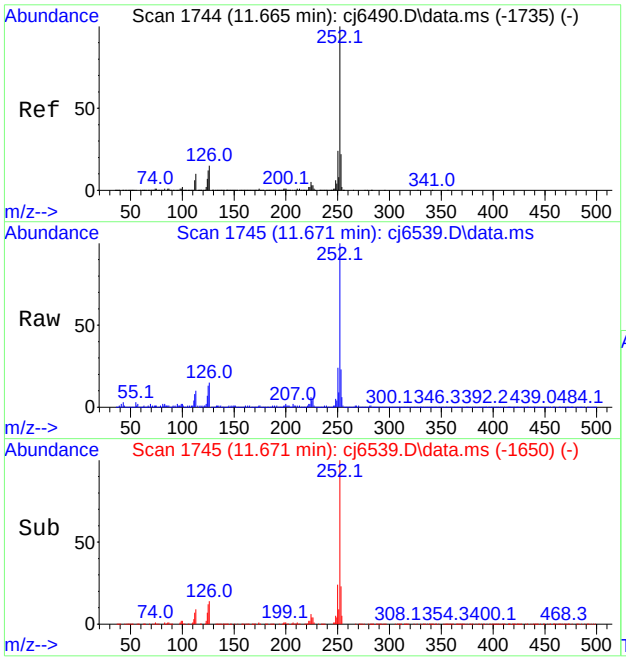


#96
Benzo[k]fluoranthene
Concen: 16.8947 ppm m
RT: 11.377 min Scan# 1690
Delta R.T. -0.005 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:252 Resp: 388551

Ion	Ratio	Lower	Upper
252	100		
253	24.2	0.0	52.6
125	13.7	0.0	42.4

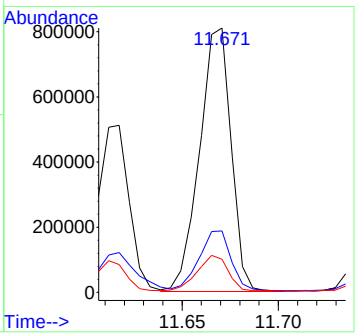


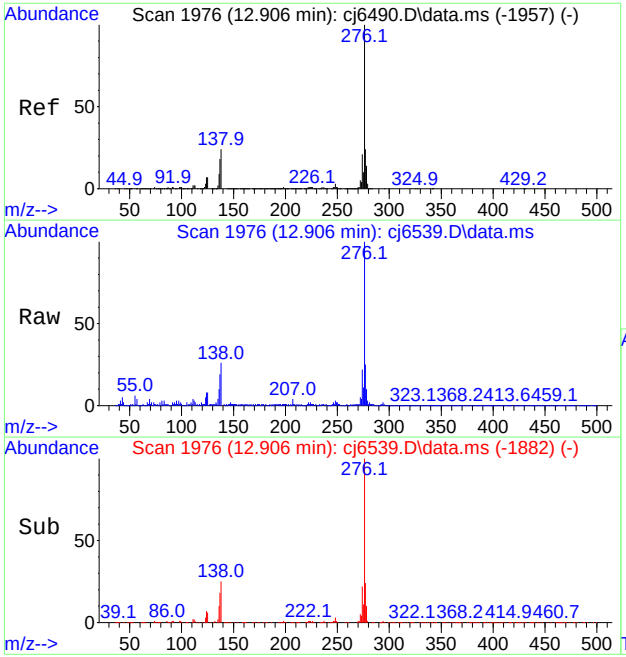


#97
Benzo[a]pyrene
Concen: 43.7528 ppm
RT: 11.671 min Scan# 1745
Delta R.T. 0.006 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:252 Resp: 925718

Ion	Ratio	Lower	Upper
252	100		
253	22.1	0.0	51.9
125	12.0	0.0	42.1

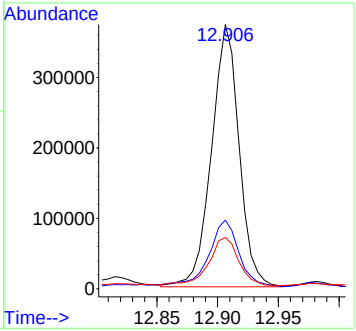


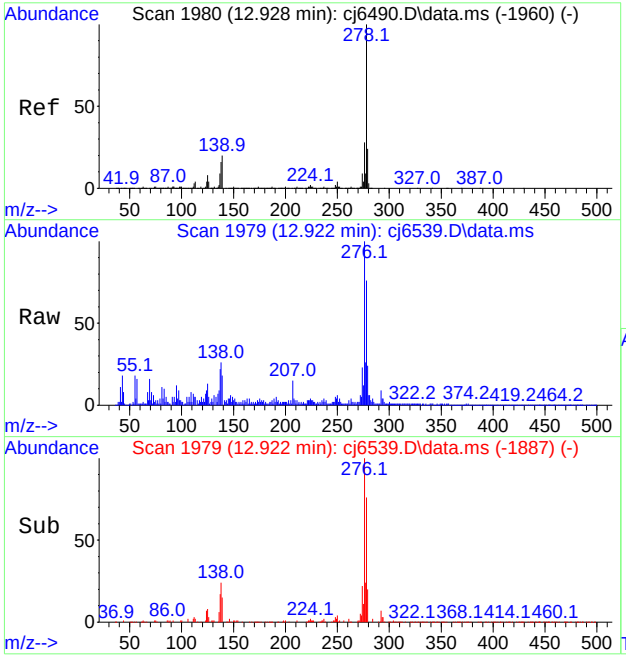


#98
Indeno[1,2,3-cd]pyrene
Concen: 23.0227 ppm
RT: 12.906 min Scan# 1976
Delta R.T. 0.000 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:276 Resp: 588878

Ion	Ratio	Lower	Upper
276	100		
138	25.2	0.0	54.2
137	18.2	0.0	47.9

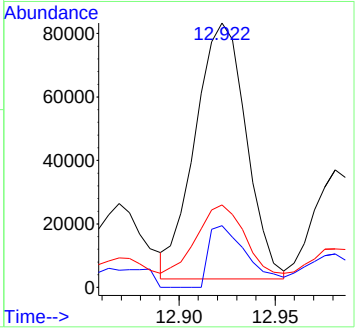


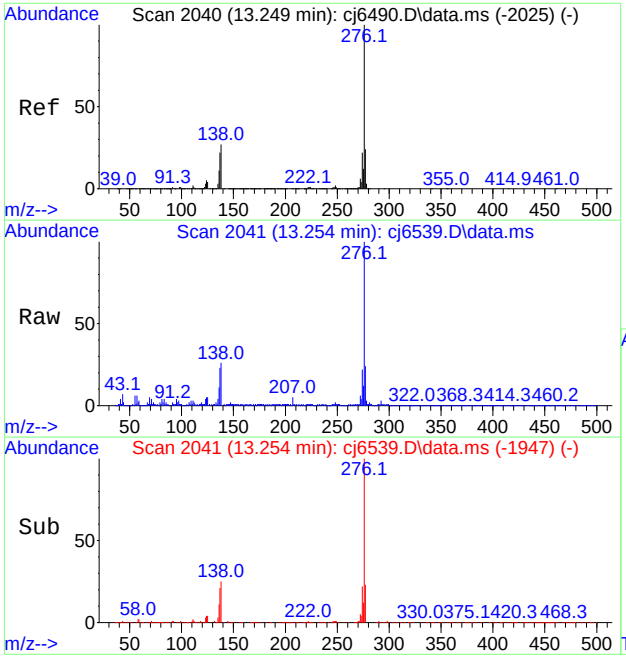


#100
Dibenz[a,h]anthracene
Concen: 7.3030 ppm
RT: 12.922 min Scan# 1979
Delta R.T. -0.006 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:278 Resp: 149257

Ion	Ratio	Lower	Upper
278	100		
139	23.7	0.0	49.8
279	28.6	0.0	54.1

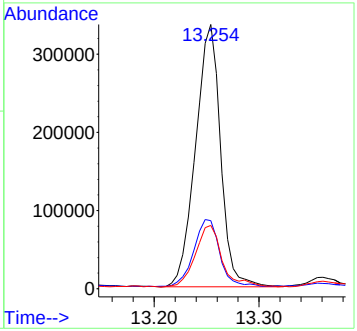


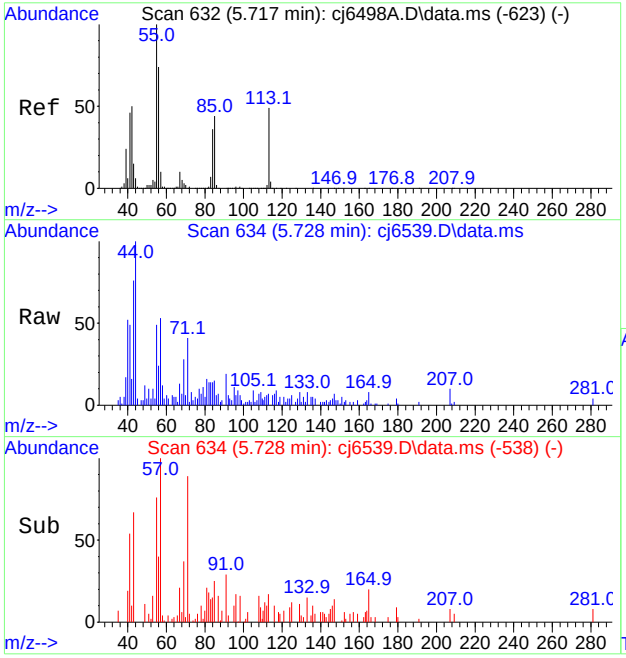


#102
Benzo[g,h,i]perylene
Concen: 28.0019 ppm
RT: 13.254 min Scan# 2041
Delta R.T. 0.005 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion:276 Resp: 556595

Ion	Ratio	Lower	Upper
276	100		
138	25.0	0.0	56.7
277	23.3	0.0	54.1

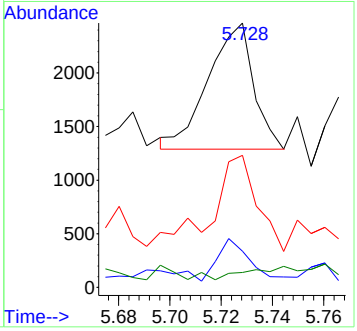




#108
Caprolactam
Concen: 0.2900 ppm
RT: 5.728 min Scan# 634
Delta R.T. 0.011 min
Lab File: cj6539.D
Acq: 10 May 2024 12:35 am

Tgt Ion: 55 Resp: 1445

Ion	Ratio	Lower	Upper
55	100		
113	18.8	18.8	78.8
56	72.2	43.8	103.8
48	0.0	0.0	30.1



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6539.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.172	332	343	353	rVB	102815	152040	2.61%	0.176%
2	4.252	353	358	363	rVB	936210	616271	10.58%	0.714%
3	4.423	381	390	396	rBV	1802412	1366378	23.46%	1.583%
4	4.487	399	402	408	rVB	432476	243391	4.18%	0.282%
5	4.664	430	435	440	rBV	3276984	2046716	35.15%	2.371%
6	4.760	446	453	460	rBV	184954	153062	2.63%	0.177%
7	4.824	460	465	470	rBV2	209177	180228	3.09%	0.209%
8	5.012	495	500	504	rBV	1972357	1222714	21.00%	1.416%
9	5.466	577	585	591	rBV	3528281	2586705	44.42%	2.996%
10	6.167	712	716	720	rBV	4173141	2413016	41.44%	2.795%
11	6.557	784	789	793	rBV	679006	556951	9.56%	0.645%
12	6.659	800	808	811	rBV	4430252	2881004	49.47%	3.337%
13	6.680	811	812	819	rVB	281189	188969	3.25%	0.219%
14	6.809	832	836	839	rBV	173757	150424	2.58%	0.174%
15	7.082	884	887	892	rVB	311592	279851	4.81%	0.324%
16	7.274	919	923	927	rBV	1558538	1156724	19.86%	1.340%
17	7.381	939	943	950	rVB3	195317	191890	3.30%	0.222%
18	7.777	1013	1017	1025	rVB2	158087	247037	4.24%	0.286%
19	7.873	1030	1035	1037	rBV	3644249	3070809	52.73%	3.557%
20	7.895	1037	1039	1042	rVB	2500354	1737707	29.84%	2.013%
21	7.937	1042	1047	1050	rVB	1182605	887436	15.24%	1.028%
22	7.969	1050	1053	1057	rBV3	155590	157325	2.70%	0.182%
23	8.076	1067	1073	1076	rBV2	182394	196832	3.38%	0.228%
24	8.167	1086	1090	1093	rVB3	177271	189306	3.25%	0.219%
25	8.322	1113	1119	1121	rBV	506395	454109	7.80%	0.526%
26	8.349	1121	1124	1126	rVB	558661	373401	6.41%	0.432%
27	8.392	1130	1132	1134	rVB	302347	199098	3.42%	0.231%
28	8.424	1134	1138	1146	rVB2	1031314	1322505	22.71%	1.532%
29	8.601	1163	1171	1182	rBV4	356569	677679	11.64%	0.785%
30	8.836	1209	1215	1218	rBV	607237	652129	11.20%	0.755%
31	8.868	1218	1221	1224	rBV	300478	278971	4.79%	0.323%
32	8.911	1227	1229	1235	rVB3	429485	488587	8.39%	0.566%
33	8.986	1235	1243	1249	rBV	5953583	4873639	83.69%	5.645%
34	9.039	1249	1253	1256	rBV3	218788	248275	4.26%	0.288%
35	9.071	1256	1259	1264	rVB	307879	271831	4.67%	0.315%
36	9.119	1264	1268	1275	rBV5	402262	594136	10.20%	0.688%
37	9.200	1275	1283	1287	rBV	5568491	5344056	91.77%	6.189%
38	9.269	1294	1296	1299	rVB2	196804	158503	2.72%	0.184%
39	9.317	1299	1305	1307	rBV	342574	316116	5.43%	0.366%
40	9.355	1307	1312	1318	rVB	3194504	2627383	45.12%	3.043%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.414	1318	1323	1327	rBV3	468025	641486	11.02%	0.743%
42	9.521	1335	1343	1346	rVB	793069	1345674	23.11%	1.559%
43	9.585	1346	1355	1358	rBV2	645522	735277	12.63%	0.852%
44	9.617	1358	1361	1365	rBV	800959	705510	12.12%	0.817%
45	9.681	1369	1373	1375	rBV3	146510	158037	2.71%	0.183%
46	9.708	1375	1378	1381	rBV	482931	396528	6.81%	0.459%
47	9.735	1381	1383	1387	rVB	467826	360331	6.19%	0.417%
48	9.831	1395	1401	1408	rVB7	105859	234072	4.02%	0.271%
49	9.916	1408	1417	1423	rBV6	171161	514331	8.83%	0.596%
50	10.007	1428	1434	1440	rBV3	396461	553114	9.50%	0.641%
51	10.071	1440	1446	1449	rBV2	176663	215246	3.70%	0.249%
52	10.114	1449	1454	1457	rBV3	553553	716899	12.31%	0.830%
53	10.152	1457	1461	1462	rVV	328589	280010	4.81%	0.324%
54	10.168	1462	1464	1466	rVV	340946	267663	4.60%	0.310%
55	10.216	1471	1473	1478	rVB	339081	293320	5.04%	0.340%
56	10.275	1478	1484	1493	rVB3	395694	729251	12.52%	0.845%
57	10.366	1493	1501	1504	rBV2	3994283	5823310	100.00%	6.745%
58	10.392	1504	1506	1515	rVB	2657133	2247806	38.60%	2.603%
59	10.467	1515	1520	1522	rBV2	501941	529889	9.10%	0.614%
60	10.505	1522	1527	1530	rVB3	281042	331234	5.69%	0.384%
61	10.564	1534	1538	1541	rBV3	143643	186744	3.21%	0.216%
62	10.596	1541	1544	1547	rBV2	210390	269560	4.63%	0.312%
63	10.687	1556	1561	1564	rBV4	164837	269084	4.62%	0.312%
64	10.751	1569	1573	1576	rBV	585508	586730	10.08%	0.680%
65	10.783	1576	1579	1582	rVB	285701	235457	4.04%	0.273%
66	10.842	1583	1590	1592	rBV3	344380	382729	6.57%	0.443%
67	10.874	1592	1596	1597	rBV3	279158	306874	5.27%	0.355%
68	10.906	1598	1602	1608	rVV3	478963	704337	12.10%	0.816%
69	10.954	1608	1611	1617	rVB2	231472	274541	4.71%	0.318%
70	11.050	1625	1629	1633	rBV4	338595	428126	7.35%	0.496%
71	11.114	1637	1641	1646	rBV7	164316	247871	4.26%	0.287%
72	11.200	1653	1657	1668	rBV4	238271	484230	8.32%	0.561%
73	11.361	1679	1687	1695	rBV	2453245	4410847	75.74%	5.109%
74	11.446	1695	1703	1708	rBV2	574079	699728	12.02%	0.810%
75	11.521	1712	1717	1720	rBV3	268574	383413	6.58%	0.444%
76	11.612	1730	1734	1740	rVV	1392320	1578617	27.11%	1.828%
77	11.665	1740	1744	1748	rVB	2267434	2522610	43.32%	2.922%
78	11.724	1749	1755	1758	rBV	2107060	2731132	46.90%	3.163%
79	11.746	1758	1759	1767	rVB2	732020	610814	10.49%	0.707%
80	11.869	1776	1782	1787	rBV7	175380	413051	7.09%	0.478%
81	11.986	1797	1804	1808	rBV4	125531	232615	3.99%	0.269%
82	12.125	1826	1830	1835	rBV3	96939	189810	3.26%	0.220%
83	12.179	1835	1840	1843	rVV3	206034	340082	5.84%	0.394%
84	12.216	1843	1847	1849	rVV3	178567	294935	5.06%	0.342%
85	12.243	1849	1852	1856	rVV5	191343	292730	5.03%	0.339%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.297	1857	1862	1871	rVB5	74649	154116	2.65%	0.178%
87	12.628	1917	1924	1926	rVV4	121998	222828	3.83%	0.258%
88	12.666	1926	1931	1942	rVB9	206948	591054	10.15%	0.685%
89	12.773	1943	1951	1962	rBV3	303995	654321	11.24%	0.758%
90	12.864	1963	1968	1970	rBV4	122072	170846	2.93%	0.198%
91	12.906	1970	1976	1985	rVB2	1087761	1946828	33.43%	2.255%
92	12.981	1985	1990	1997	rBV	111743	173118	2.97%	0.201%
93	13.056	1997	2004	2007	rBV	243800	407537	7.00%	0.472%
94	13.099	2007	2012	2016	rVV3	186410	253249	4.35%	0.293%
95	13.254	2034	2041	2055	rVB	966395	1760675	30.23%	2.039%
96	13.430	2064	2074	2083	rVB	356819	864092	14.84%	1.001%
97	13.709	2120	2126	2136	rBV	70921	184703	3.17%	0.214%
98	13.848	2146	2152	2163	rVB4	132135	339731	5.83%	0.393%
99	13.976	2165	2176	2181	rBV5	196288	480828	8.26%	0.557%
100	14.425	2253	2260	2269	rBV5	71237	228073	3.92%	0.264%

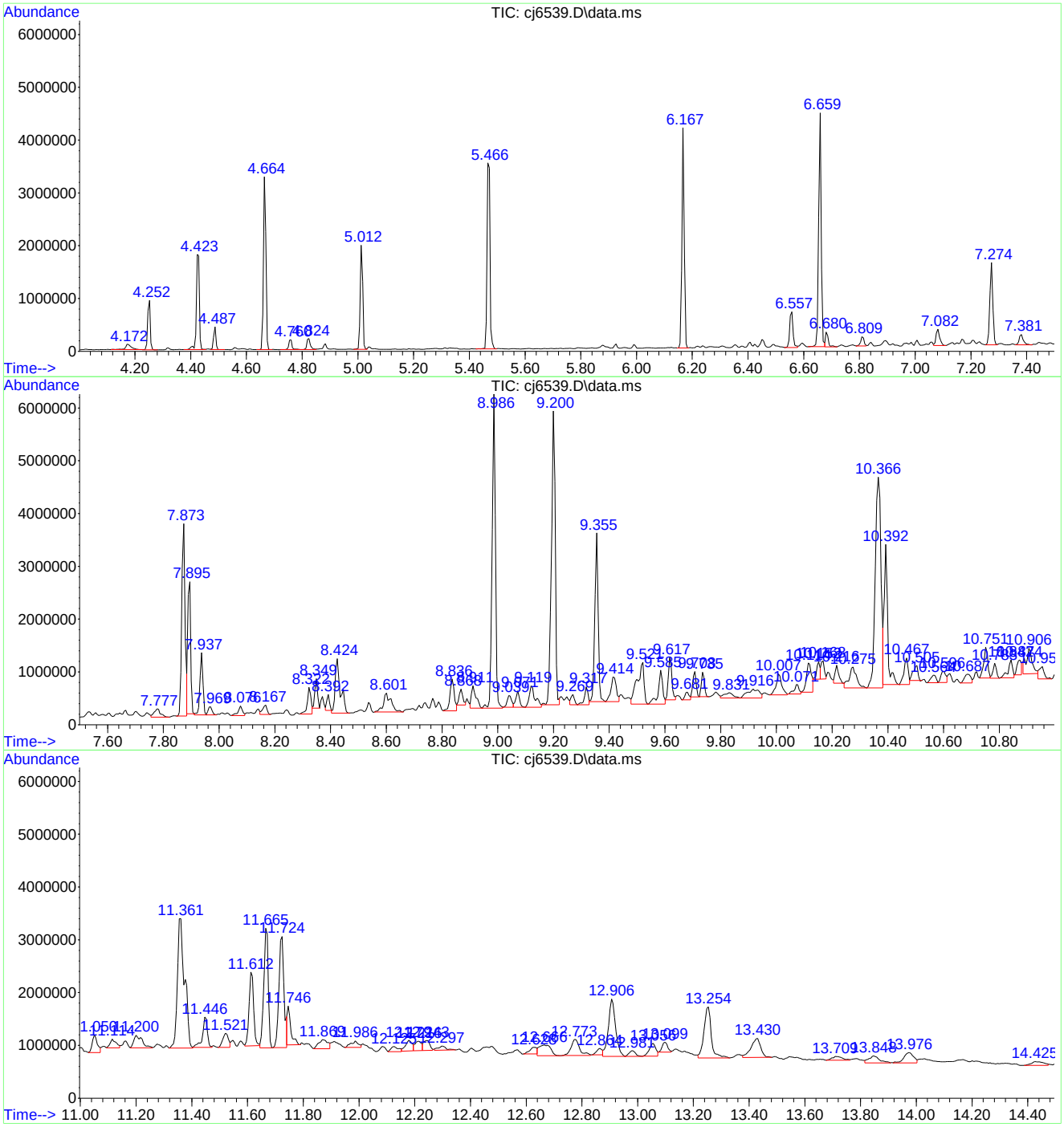
Sum of corrected areas: 86340858

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

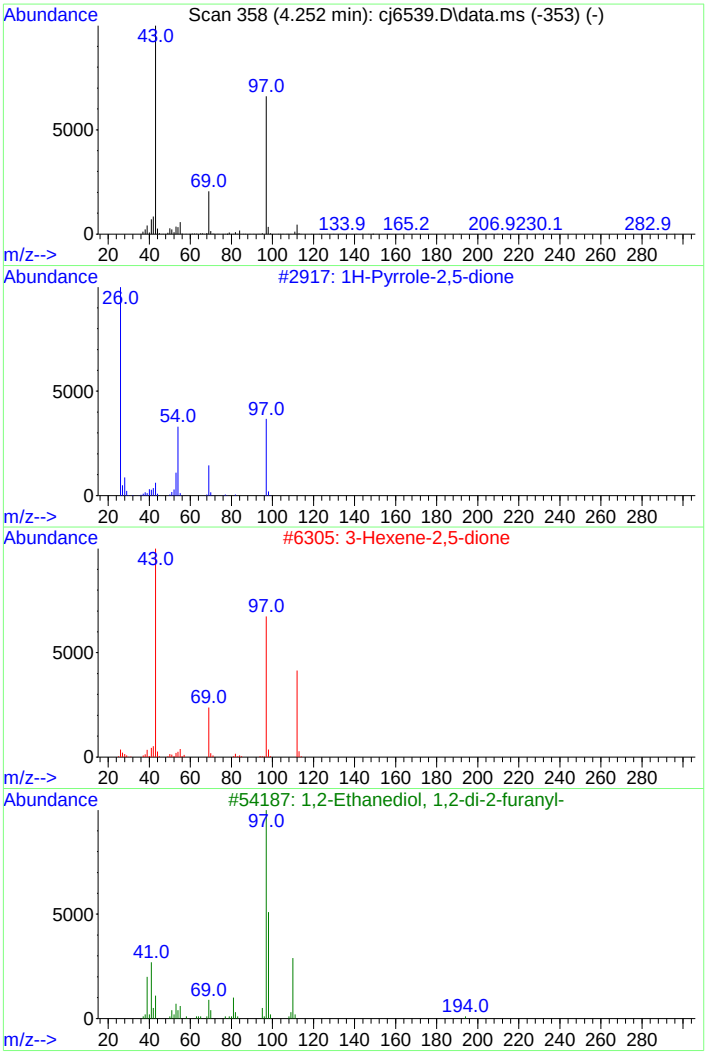
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

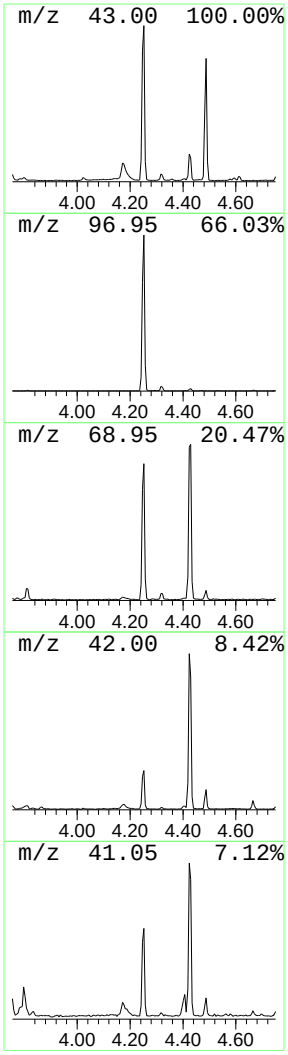
****

Peak Number 1 Unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.252	12.04 ppm	616271	1,4-Dichlorobenzene-d4a	4.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	47
2	3-Hexene-2,5-dione	112	C6H8O2	004436-75-3	45
3	1,2-Ethanediol, 1,2-di-2-furanyl-	194	C10H10O4	004464-77-1	28
4	2,4-Dimethyl-1,5-diazabicyclo[3....	112	C6H12N2	100463-01-2	28
5	5-Hexen-2-one	98	C6H10O	000109-49-9	14





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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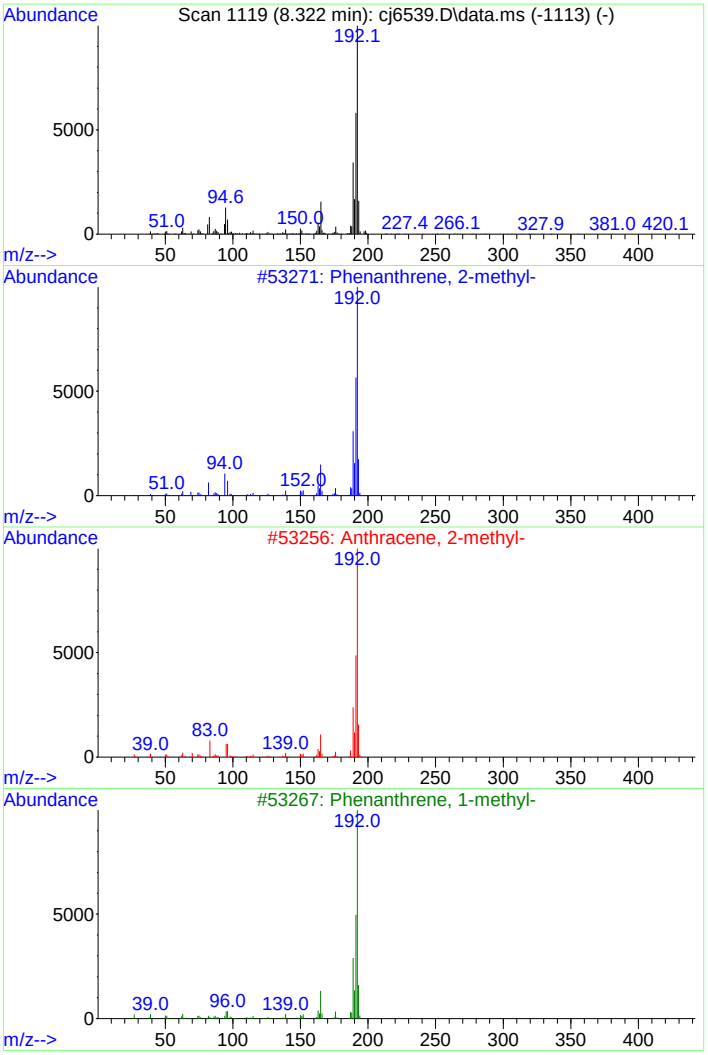
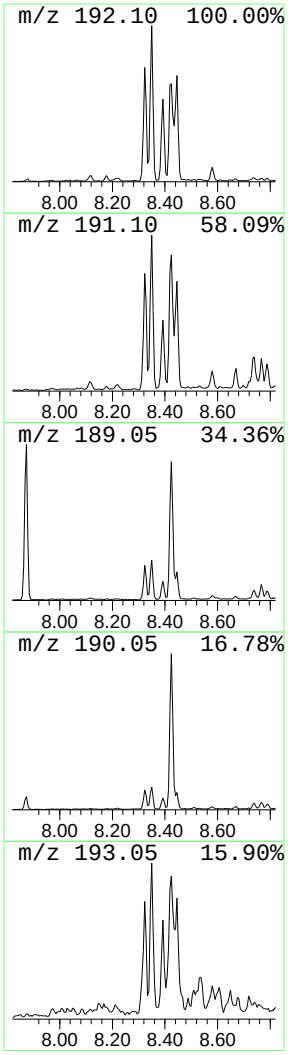
Peak Number 2 Phenanthrene, methyl Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.322	5.92 ppm	454109	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





Library Search Compound Report

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Acq On : 10 May 2024 12:35 am
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Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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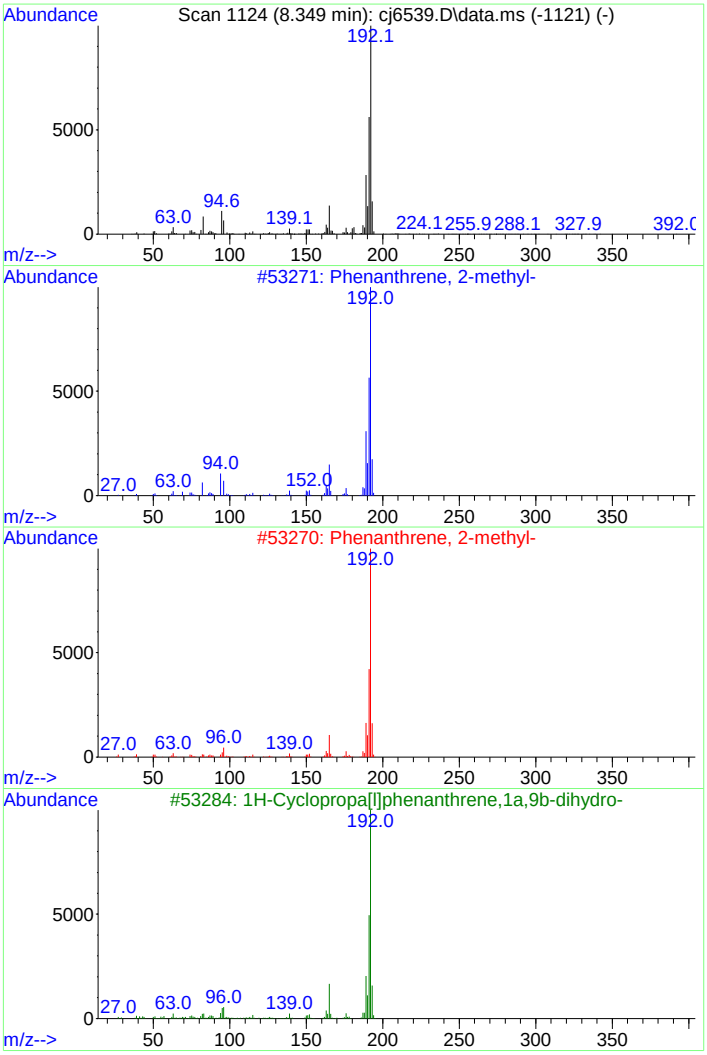
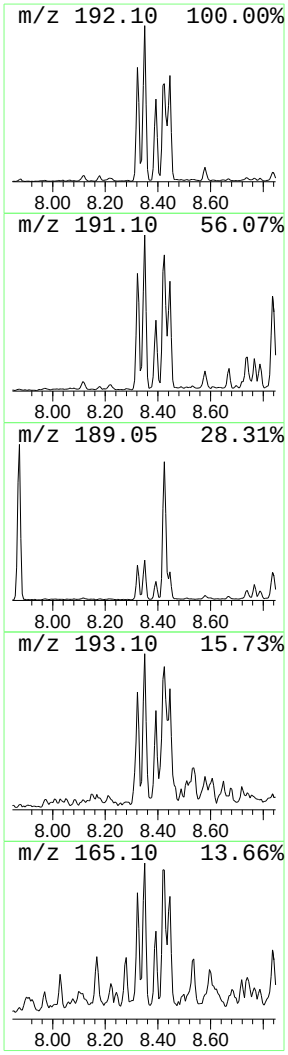
Peak Number 3 Phenanthrene, methyl Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.349	4.86 ppm	373401	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96





Library Search Compound Report

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Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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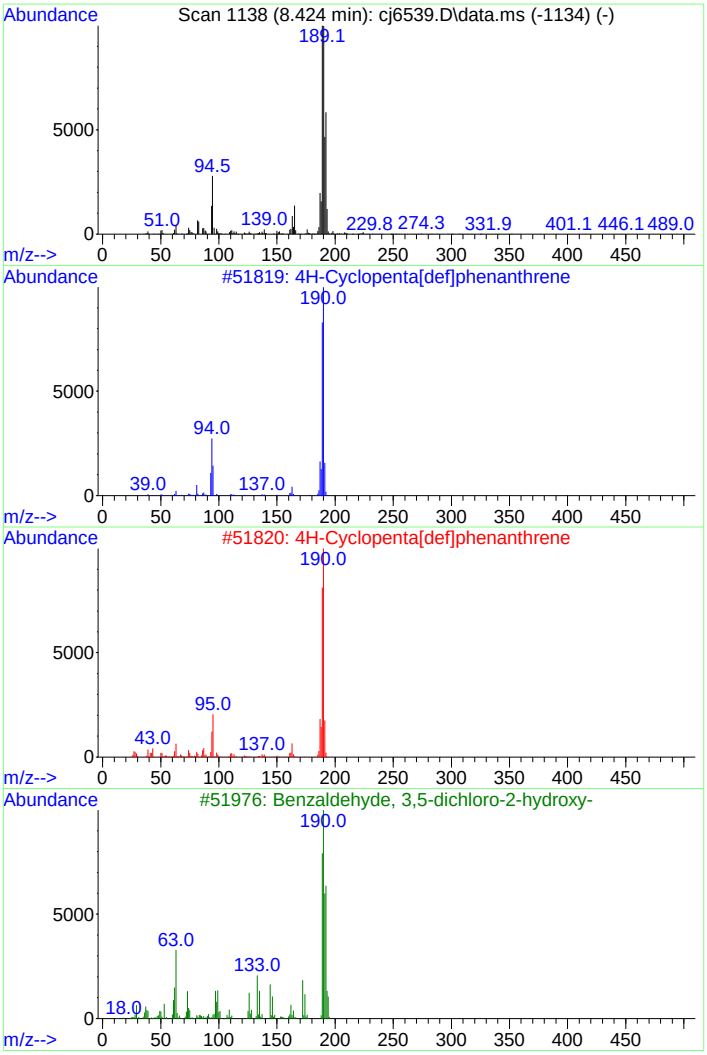
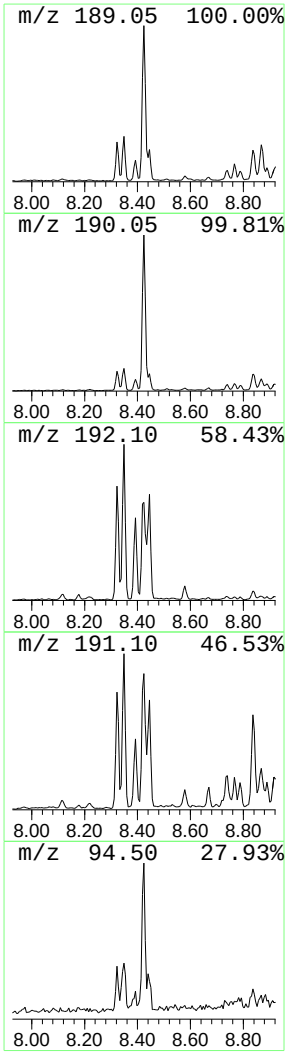
Peak Number 4 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.424	17.23 ppm	1322510	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
3	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	47
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	43
5	Methyl diselenide	190	C2H6Se2	007101-31-7	38





Library Search Compound Report

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Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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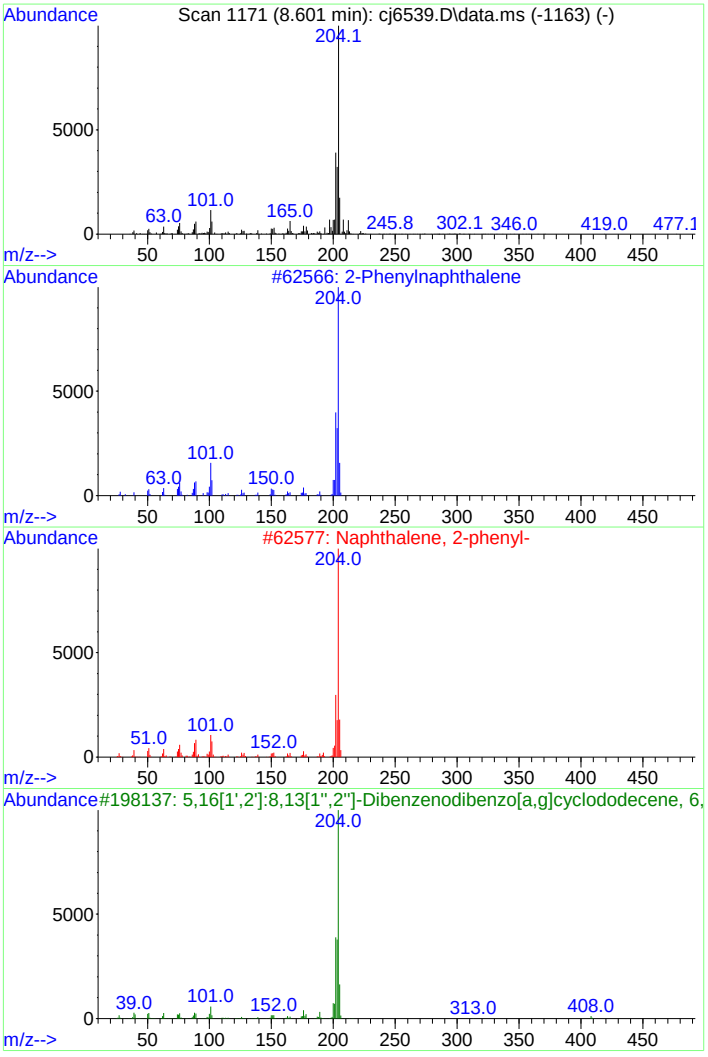
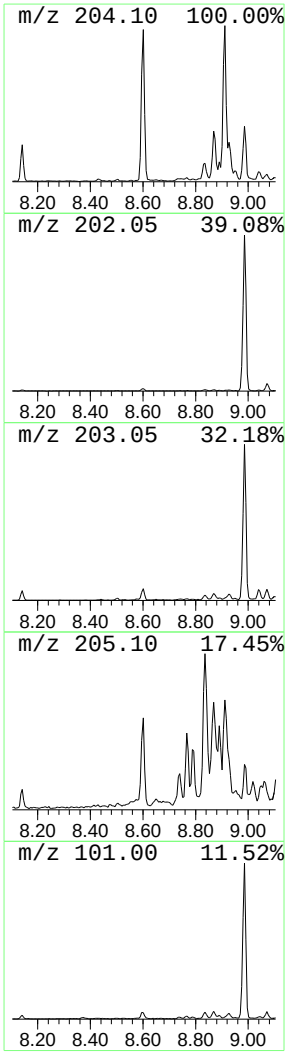
Peak Number 5 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.601	8.83 ppm	677679	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	92
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	91
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
4	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	78
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	70





Library Search Compound Report

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Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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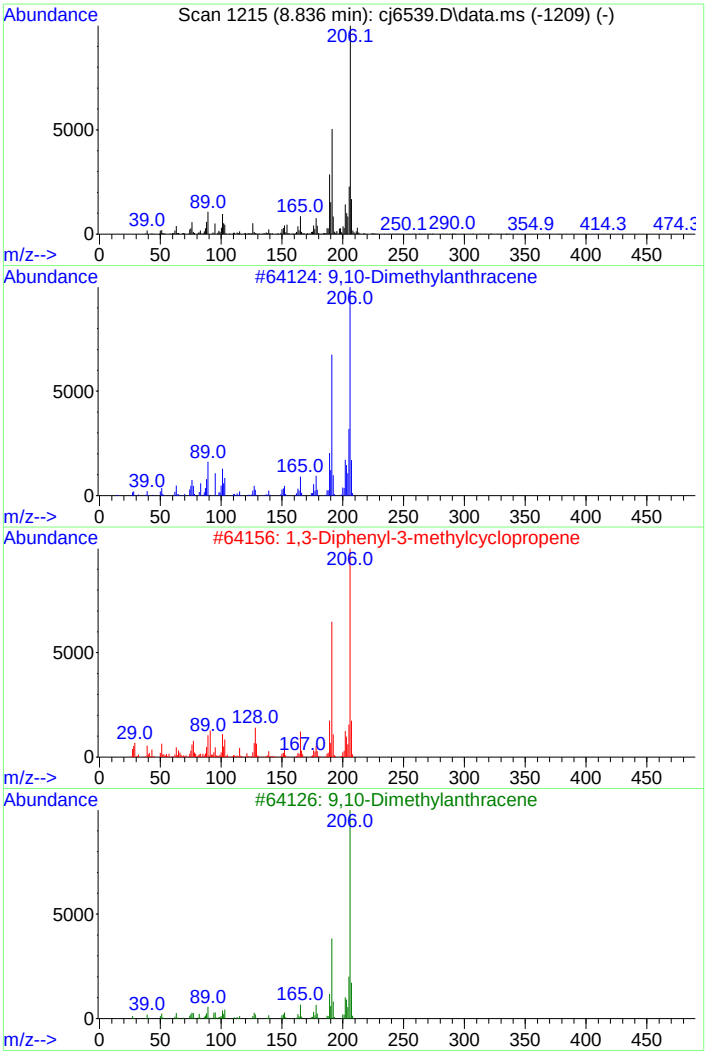
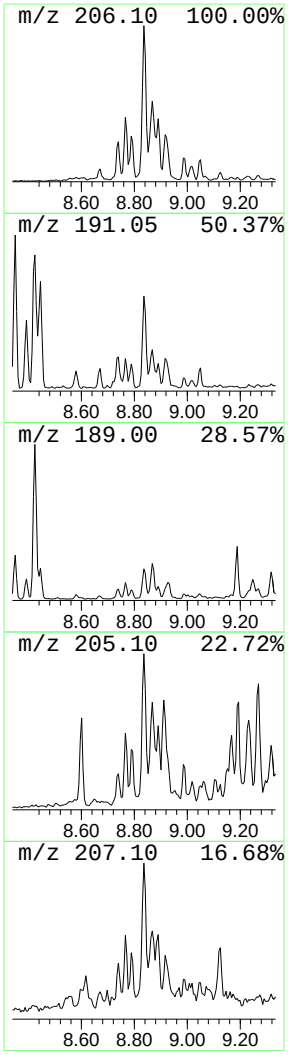
Peak Number 6 Alkene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.836	8.49 ppm	652129	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	97
2	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	96
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	94





Library Search Compound Report

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Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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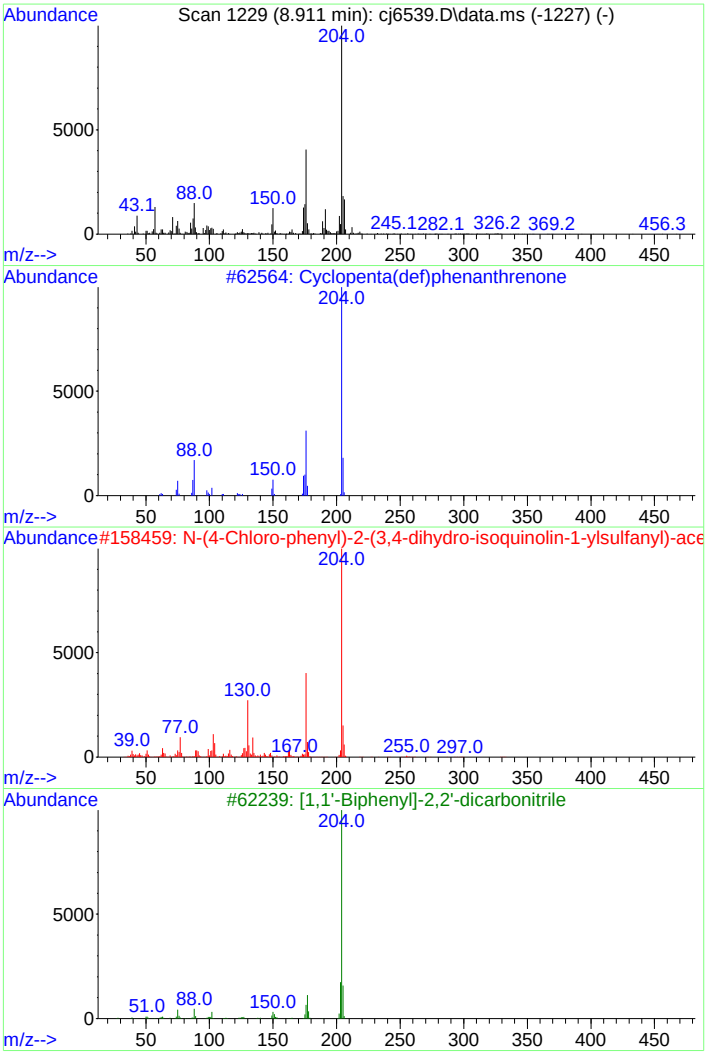
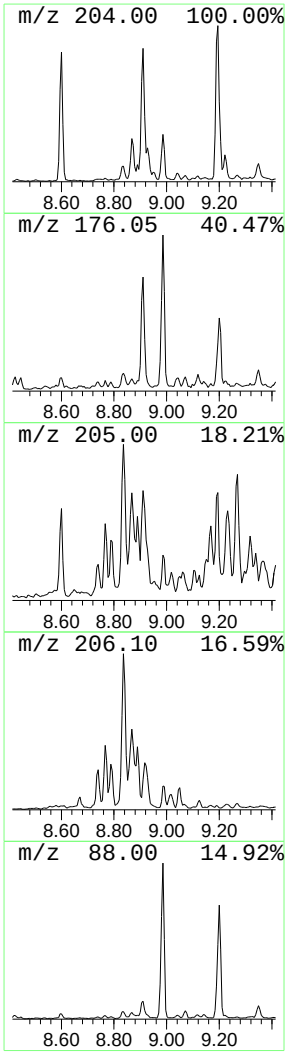
Peak Number 7 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.911	6.36 ppm	488587	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	93
2	N-(4-Chloro-phenyl)-2-(3,4-dihyd...	330	C17H15ClN2OS	1000296-34-3	58
3	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	50
4	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	45





Library Search Compound Report

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Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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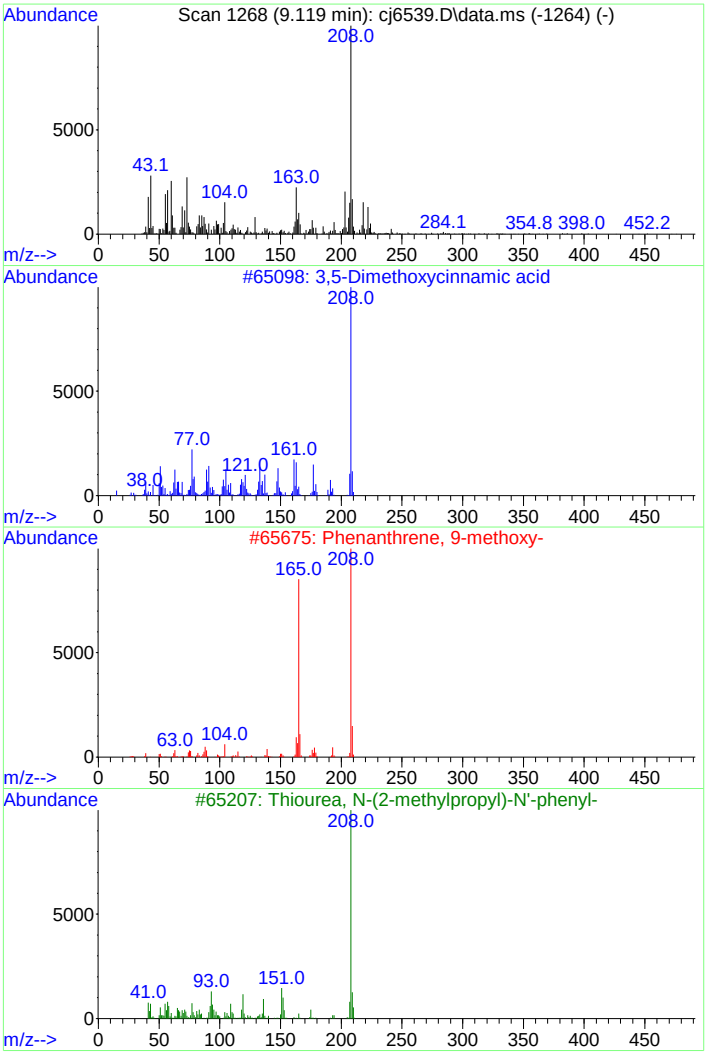
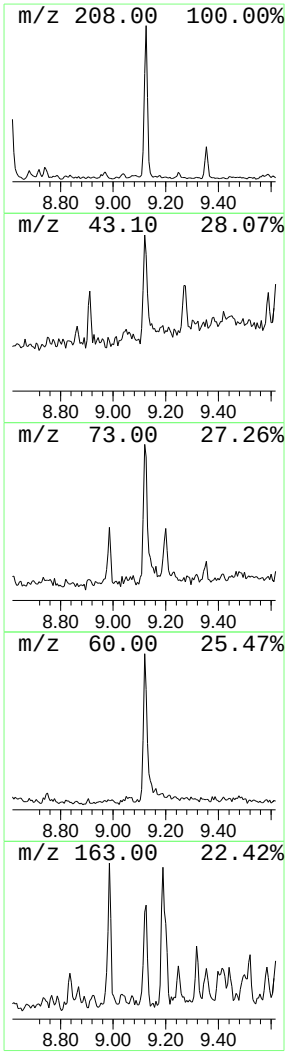
Peak Number 8 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.119	7.74 ppm	594136	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,5-Dimethoxycinnamic acid	208	C11H12O4	016909-11-8	43
2	Phenanthrene, 9-methoxy-	208	C15H12O	005085-74-5	43
3	Thiourea, N-(2-methylpropyl)-N'-...	208	C11H16N2S	016275-53-9	38
4	Benzene, 1-methoxy-4-(phenylethy...	208	C15H12O	007380-78-1	38
5	Pyrimidine, 2-(2,4-difluoropheno...	208	C10H6F2N2O	1000260-37-2	38





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Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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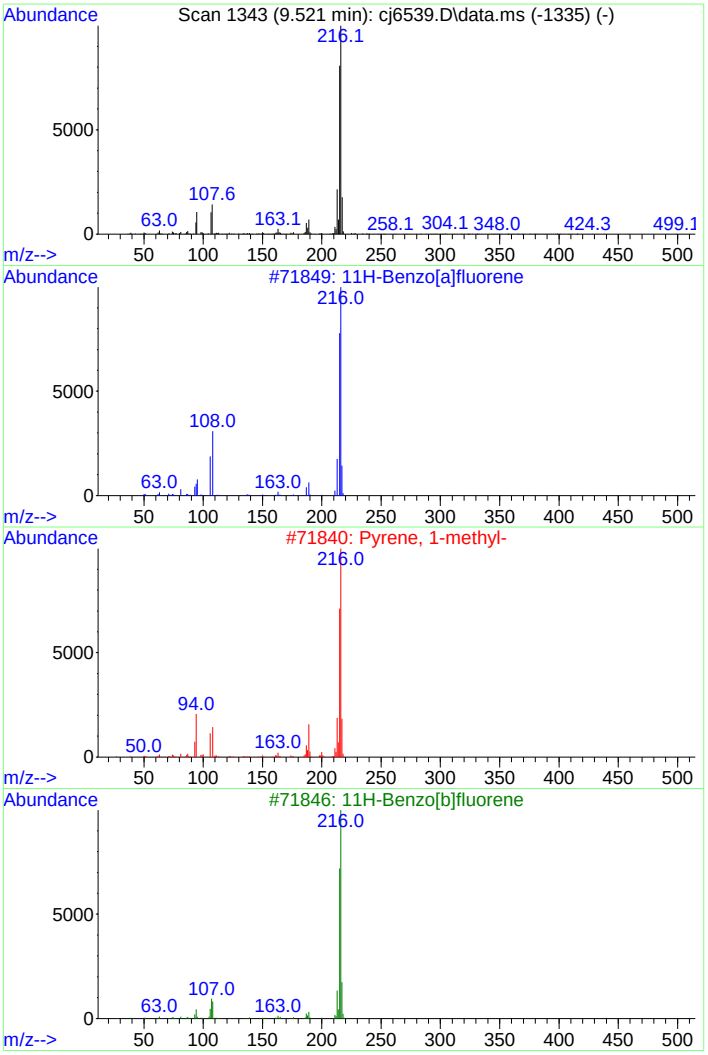
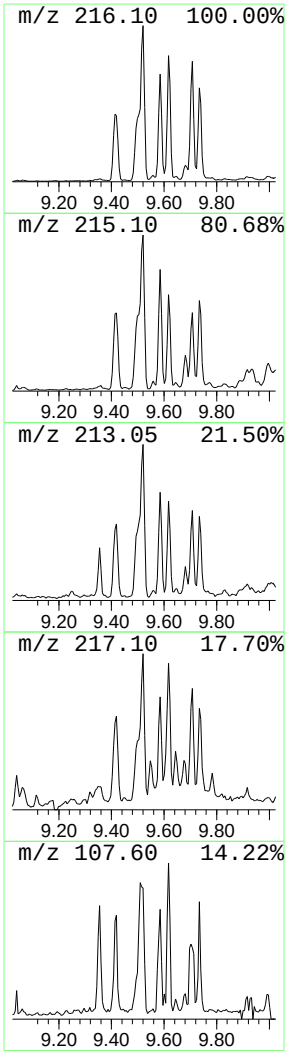
Peak Number 9 Pyrene, methyl Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.521	9.24 ppm	1345670	Chrysene-d12	10.371

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87





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Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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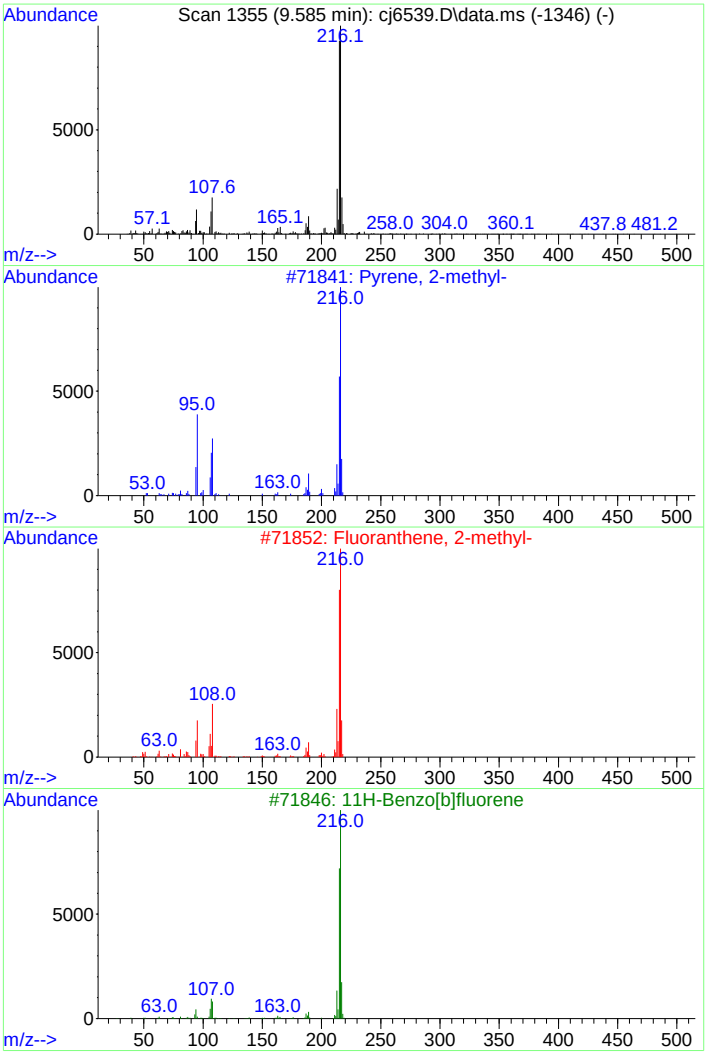
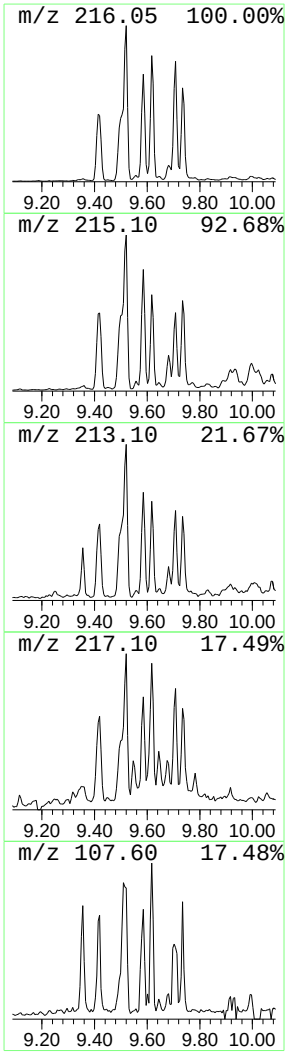
Peak Number 10 Pyrene, methyl Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.585	5.05 ppm	735277	Chrysene-d12	10.371

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87





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Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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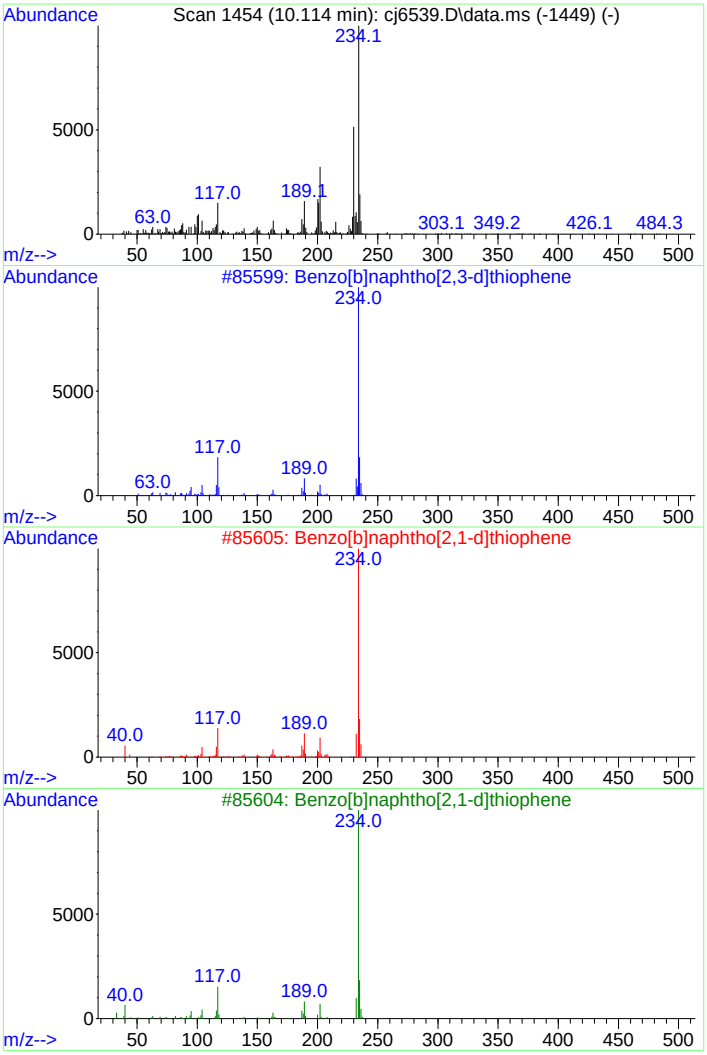
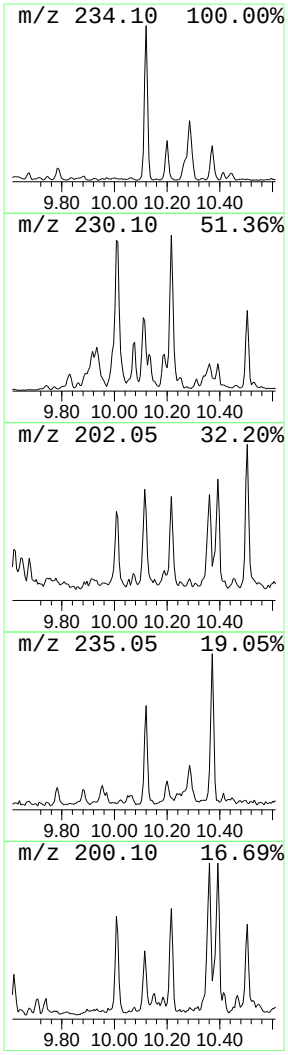
Peak Number 11 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.114	4.92 ppm	716899	Chrysene-d12	10.371

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	92
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	91
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	83
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	78
5	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	78





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Sample : jd87833-7
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ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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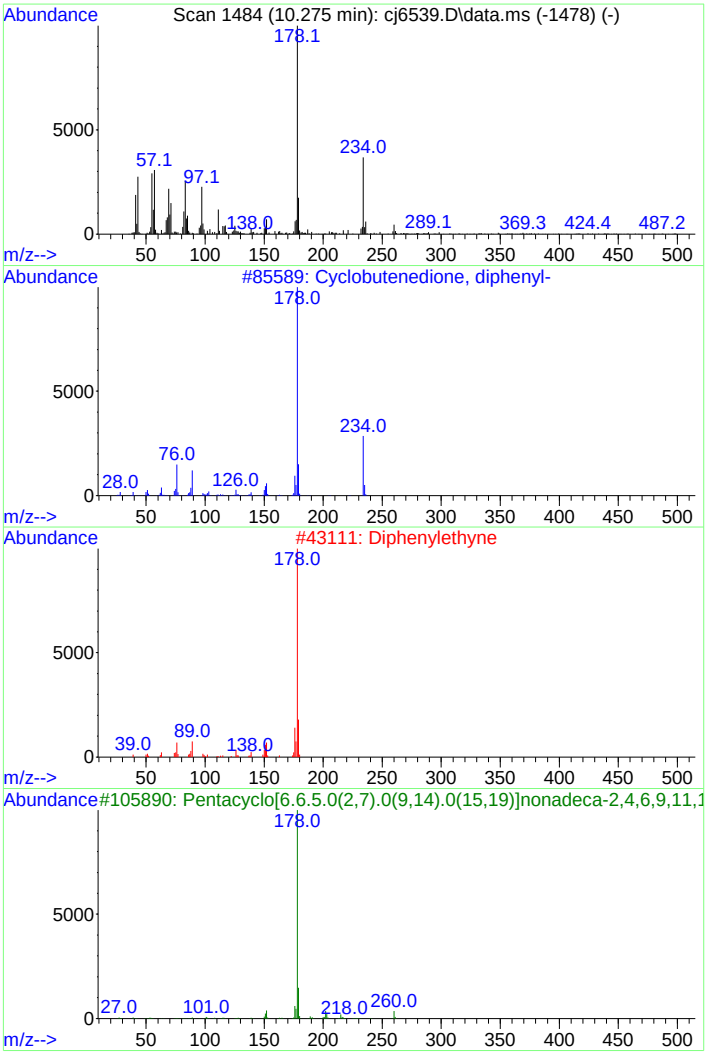
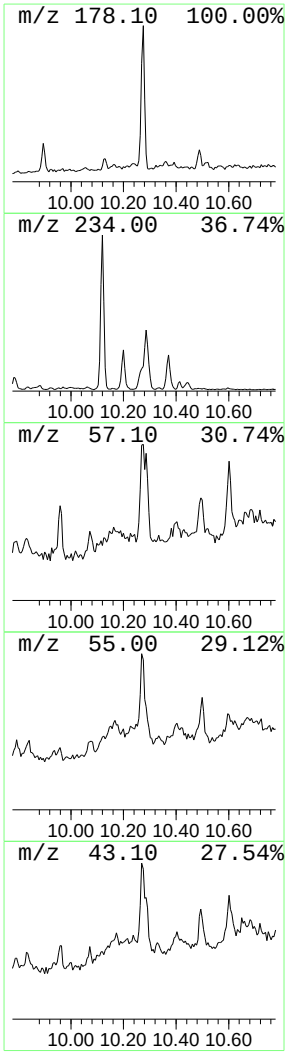
Peak Number 12 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.275	5.01 ppm	729251	Chrysene-d12	10.371

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclobutenedione, diphenyl-	234	C16H10O2	024234-76-2	47
2	Diphenylethyne	178	C14H10	000501-65-5	43
3	Pentacyclo[6.6.5.0(2,7).0(9,14)....	260	C19H16O	111272-10-7	43
4	Diphenylethyne	178	C14H10	000501-65-5	43
5	1,2,4-Triazine, 5,6-diphenyl-3-(...	386	C26H18N4	001058-71-5	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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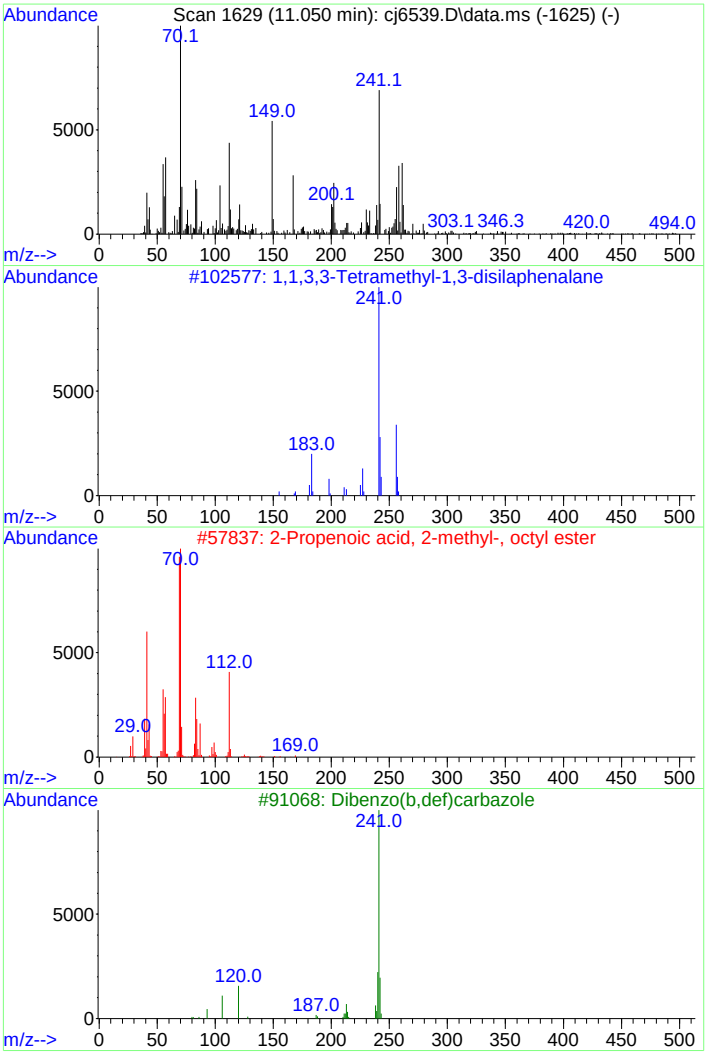
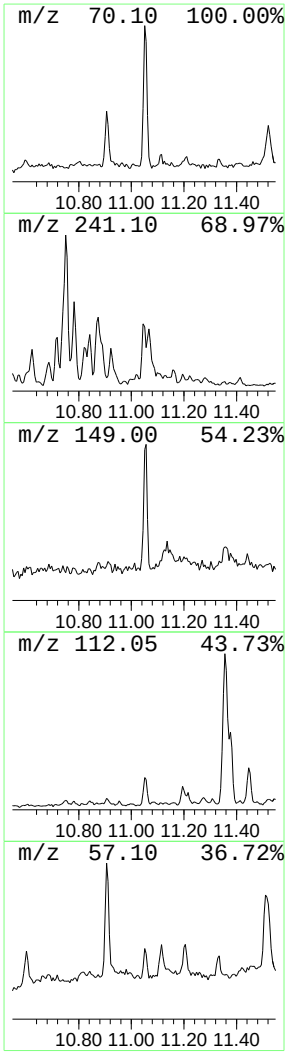
Peak Number 13 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.050	6.27 ppm	428126	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1,3,3-Tetramethyl-1,3-disilaph...	256	C15H20Si2	032538-51-5	35
2	2-Propenoic acid, 2-methyl-, oct...	198	C12H22O2	002157-01-9	16
3	Dibenzo(b,def)carbazole	241	C18H11N	104313-09-9	15
4	Acetic acid, [4-(4-methyl-1-pipe...	262	C14H18N2O3	346699-90-9	14
5	4-Nitrobenzoic acid, cyclobutyl ...	221	C11H11NO4	070335-00-1	12





Library Search Compound Report

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Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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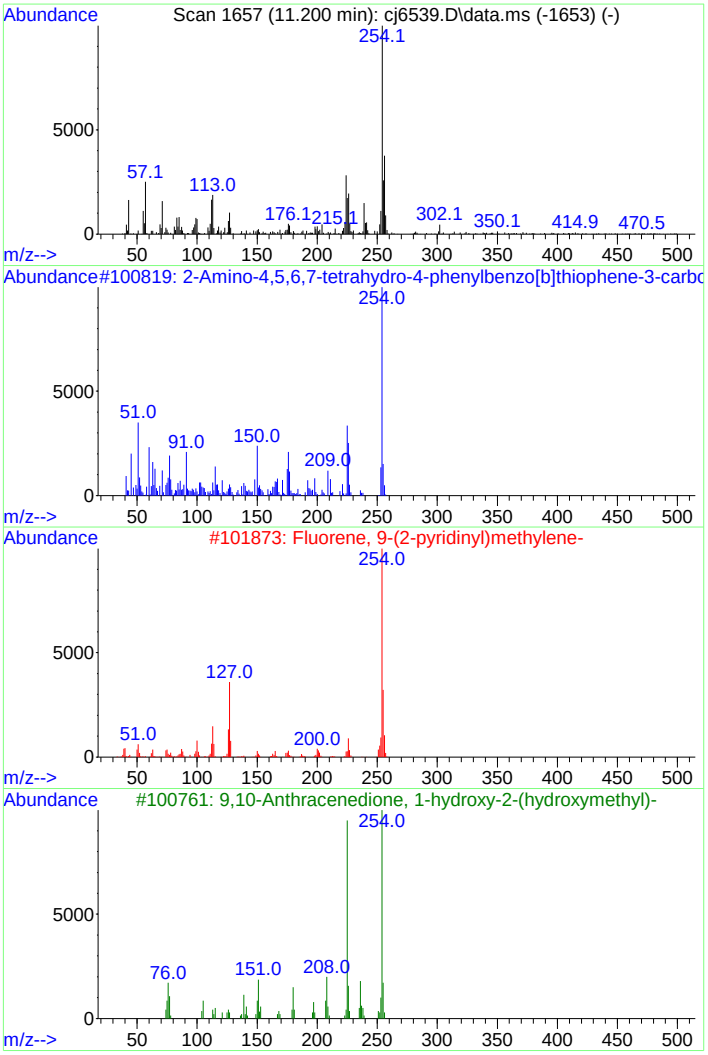
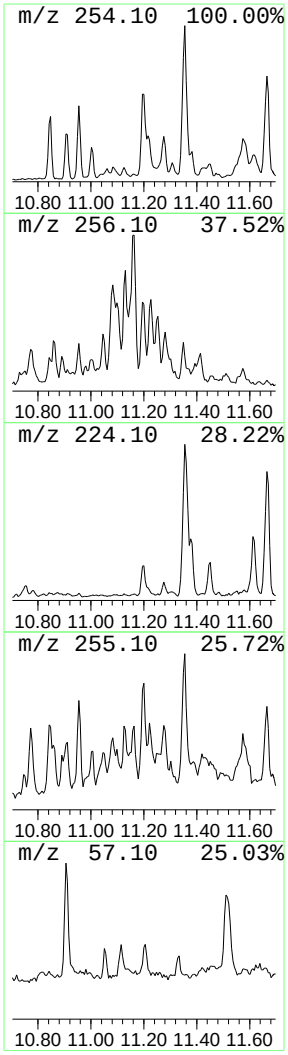
Peak Number 14 Unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.200	7.09 ppm	484230	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Amino-4,5,6,7-tetrahydro-4-phe...	254	C15H14N2S	037071-22-0	52
2	Fluorene, 9-(2-pyridinyl)methylene-	255	C19H13N	002871-27-4	52
3	9,10-Anthracenedione, 1-hydroxy-...	254	C15H10O4	024094-45-9	50
4	1,1'-Binaphthalene	254	C20H14	000604-53-5	50
5	1,1'-Binaphthalene	254	C20H14	000604-53-5	49





Library Search Compound Report

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Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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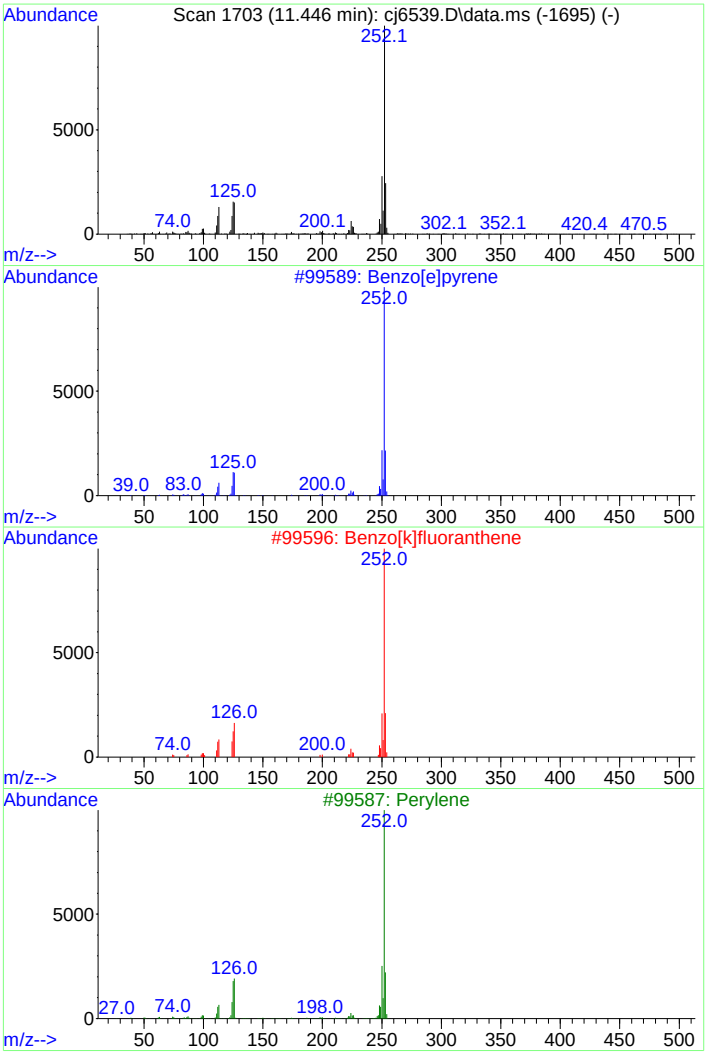
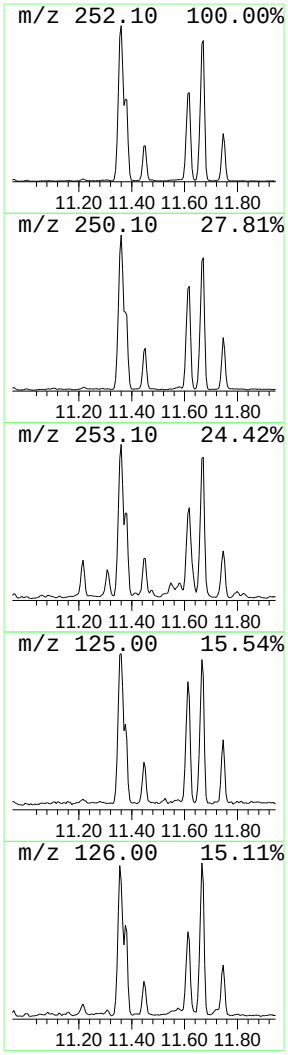
Peak Number 15 Unknown PHA Subtsance Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.446	10.25 ppm	699728	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
3	Perylene	252	C20H12	000198-55-0	95
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
5	Benzo[e]pyrene	252	C20H12	000192-97-2	94





Library Search Compound Report

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Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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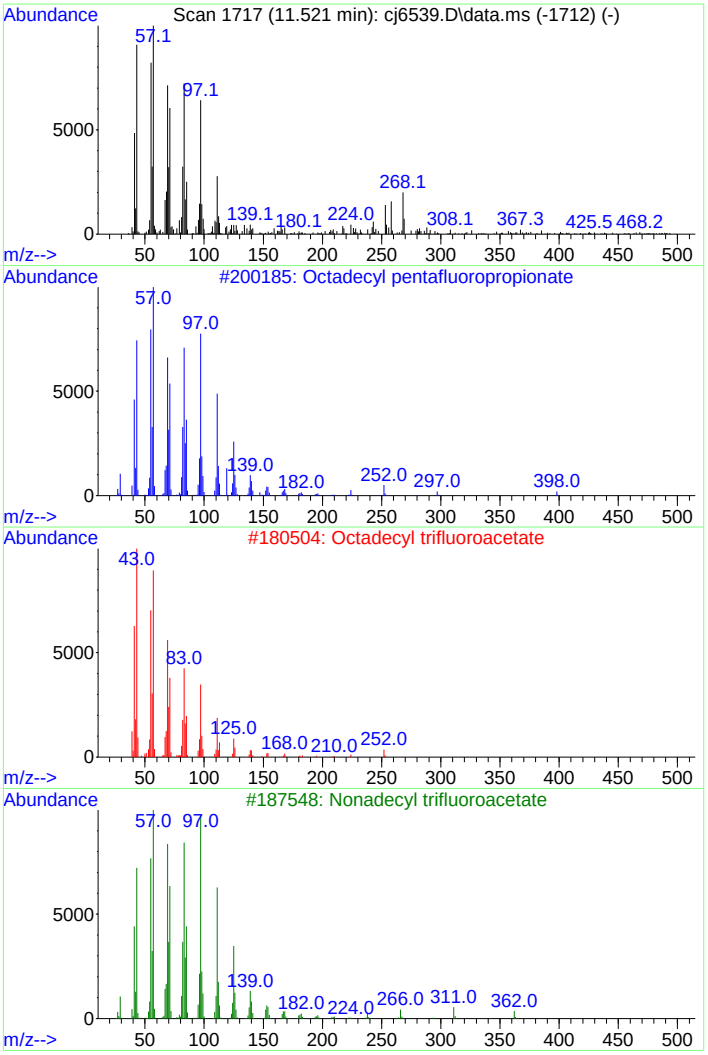
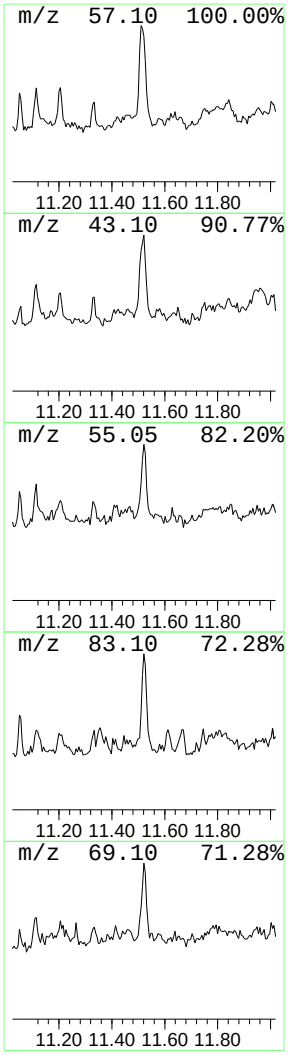
Peak Number 16 Unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.521	5.62 ppm	383413	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecyl pentafluoropropionate	416	C21H37F5O2	1000351-80-7	74
2	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	74
3	Nonadecyl trifluoroacetate	380	C21H39F3O2	1000351-76-3	74
4	1-Octacosanol	410	C28H58O	1000351-79-2	70
5	n-Tetracosanol-1	354	C24H50O	000506-51-4	70





Library Search Compound Report

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Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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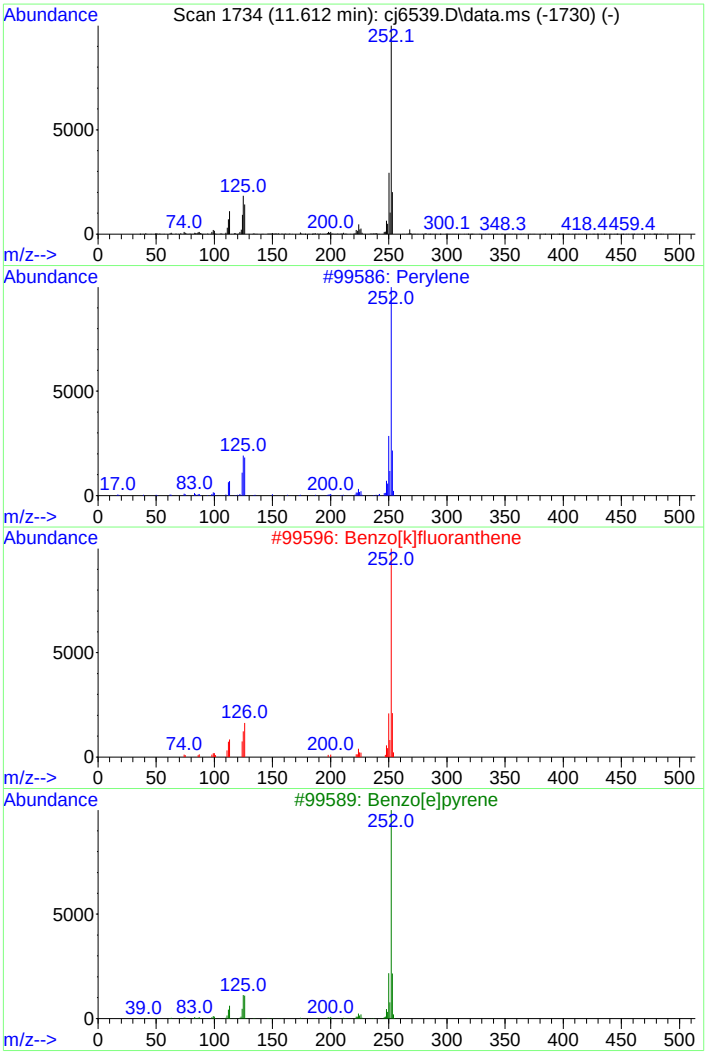
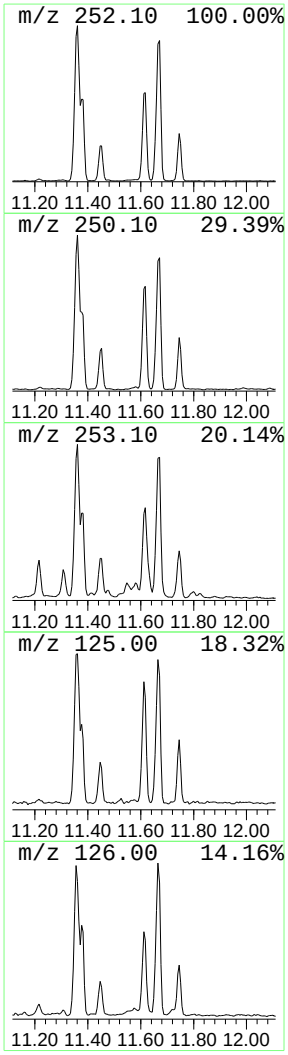
Peak Number 17 Unknown PHA susbtance Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.612	23.12 ppm	1578620	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
3	Benzo[e]pyrene	252	C20H12	000192-97-2	97
4	Perylene	252	C20H12	000198-55-0	96
5	Benzo[e]pyrene	252	C20H12	000192-97-2	96





Library Search Compound Report

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Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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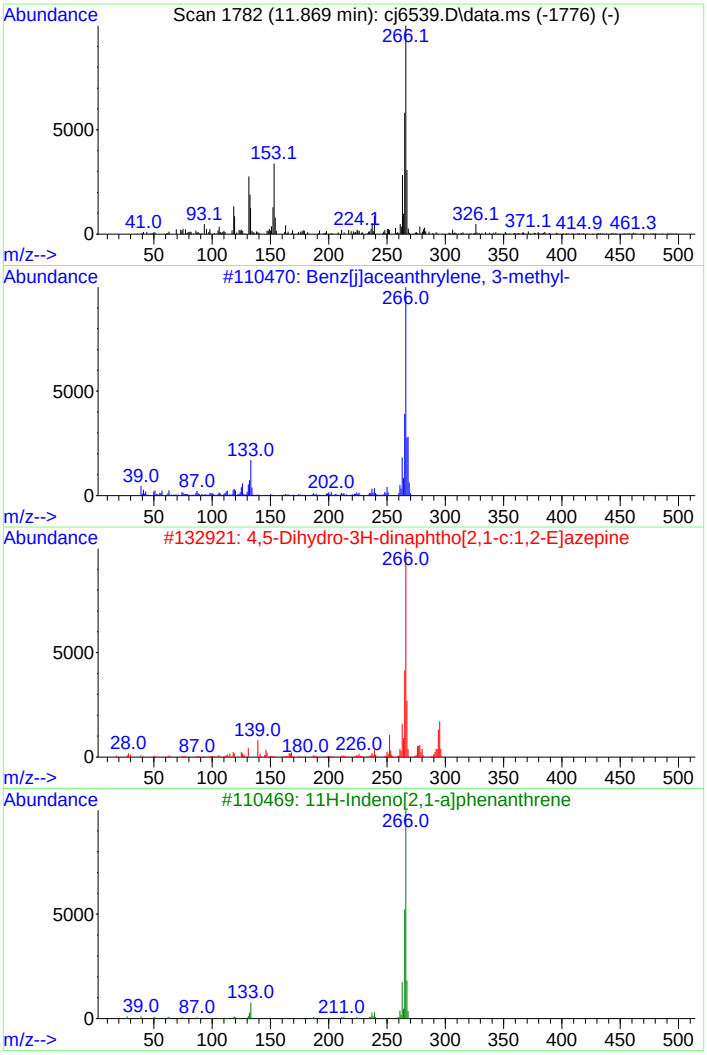
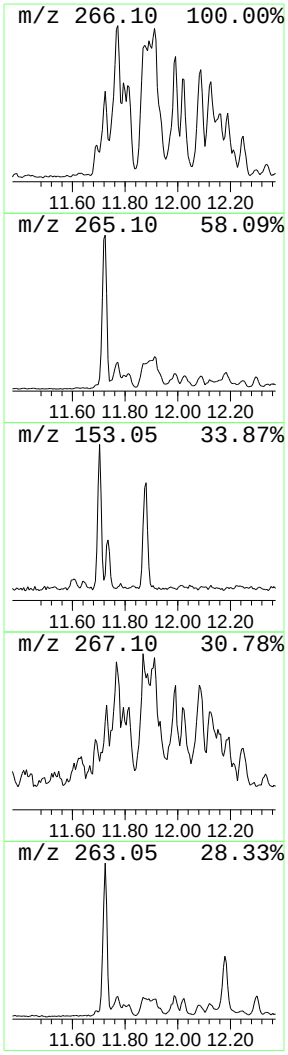
Peak Number 18 Unknown Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.869	6.05 ppm	413051	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	64
2	4,5-Dihydro-3H-dinaphtho[2,1-c:1...	295	C22H17N	1000297-99-2	59
3	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	58
4	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	52
5	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	49





Library Search Compound Report

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Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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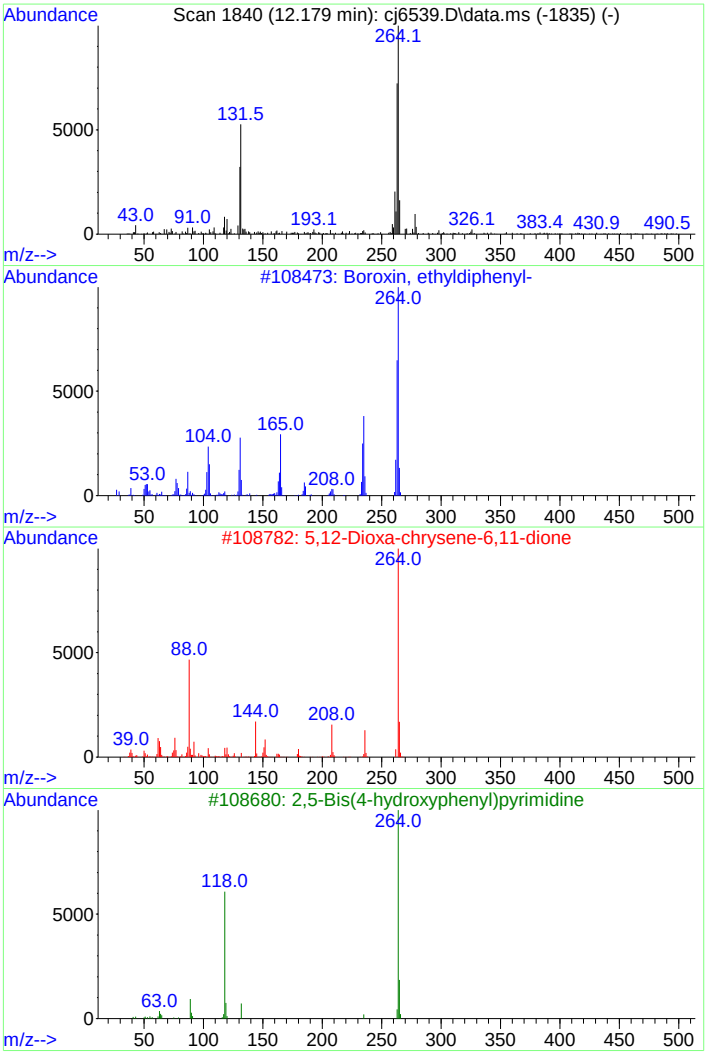
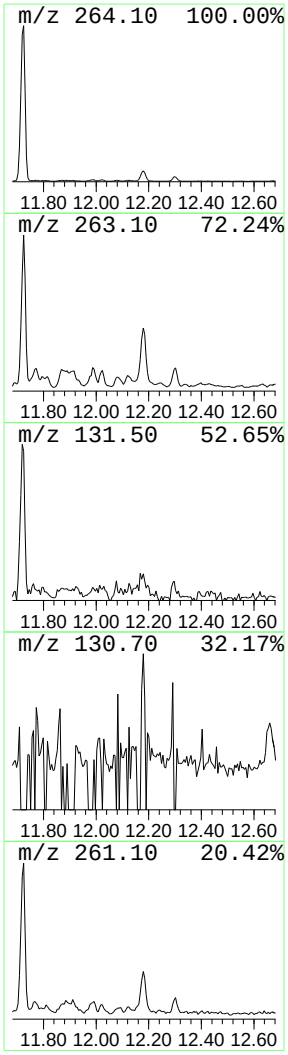
Peak Number 19 Unknown Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.179	4.98 ppm	340082	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Boroxin, ethyldiphenyl-	264	C14H15B3O3	1000151-82-0	25
2	5,12-Dioxa-chrysene-6,11-dione	264	C16H8O4	002288-98-4	22
3	2,5-Bis(4-hydroxyphenyl)pyrimidine	264	C16H12N2O2	159488-83-2	22
4	3,3'-Dimethyl-4,4'-biphenylene d...	264	C16H12N2O2	000091-97-4	22
5	Iron, (.eta.-5-cyclopentadienyl)...	264	C16H16Fe	1000155-06-6	17





Library Search Compound Report

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Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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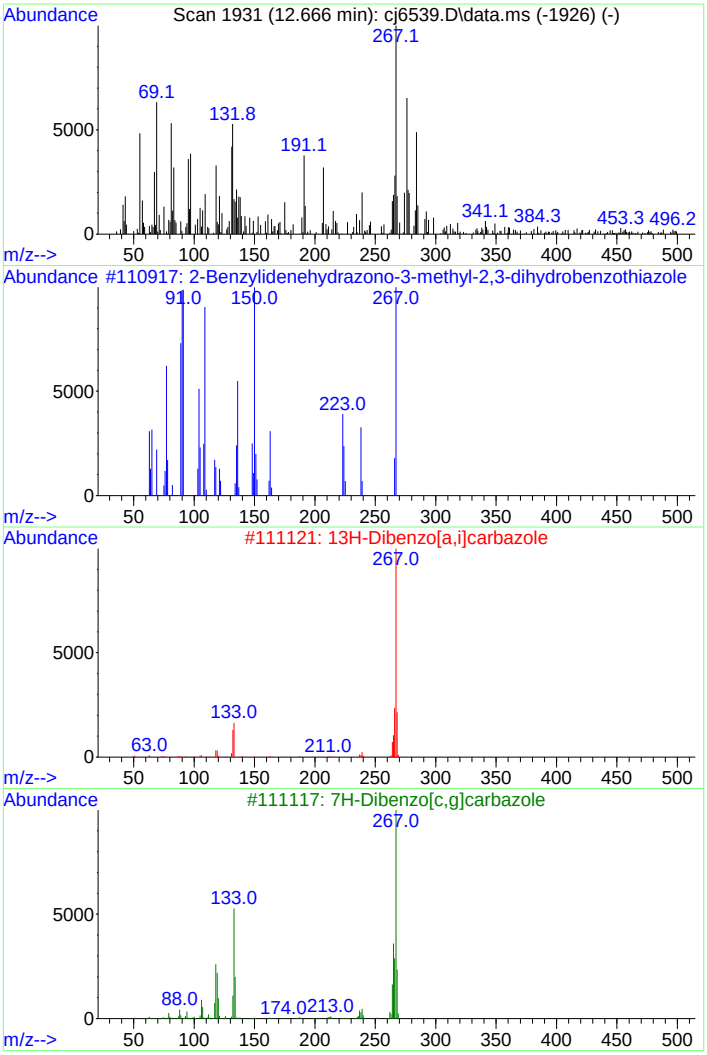
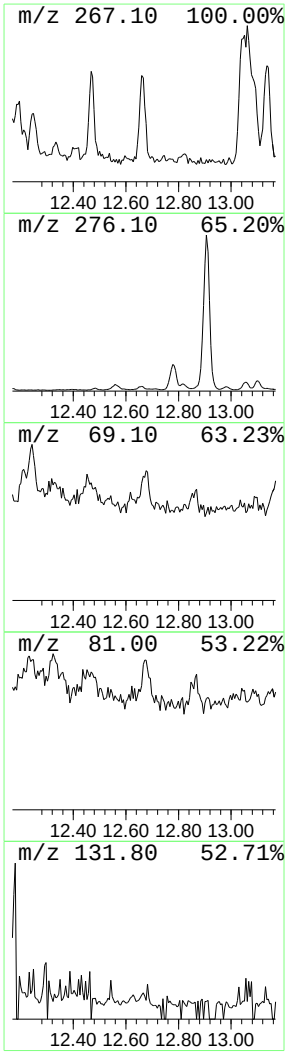
Peak Number 20 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.666	8.66 ppm	591054	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Benzylidenehydrazono-3-methyl-...	267	C15H13N3S	1000146-59-1	25
2	13H-Dibenzo[a,i]carbazole	267	C20H13N	000239-64-5	18
3	7H-Dibenzo[c,g]carbazole	267	C20H13N	000194-59-2	14
4	3-[4-Methoxyphenyl]-1,4-benzothi...	284	C15H12N2O2S	1000211-53-6	14
5	2-[2-(4-Methoxyphenyl)vinyl]-3,3...	277	C19H19NO	101913-13-7	11





Library Search Compound Report

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Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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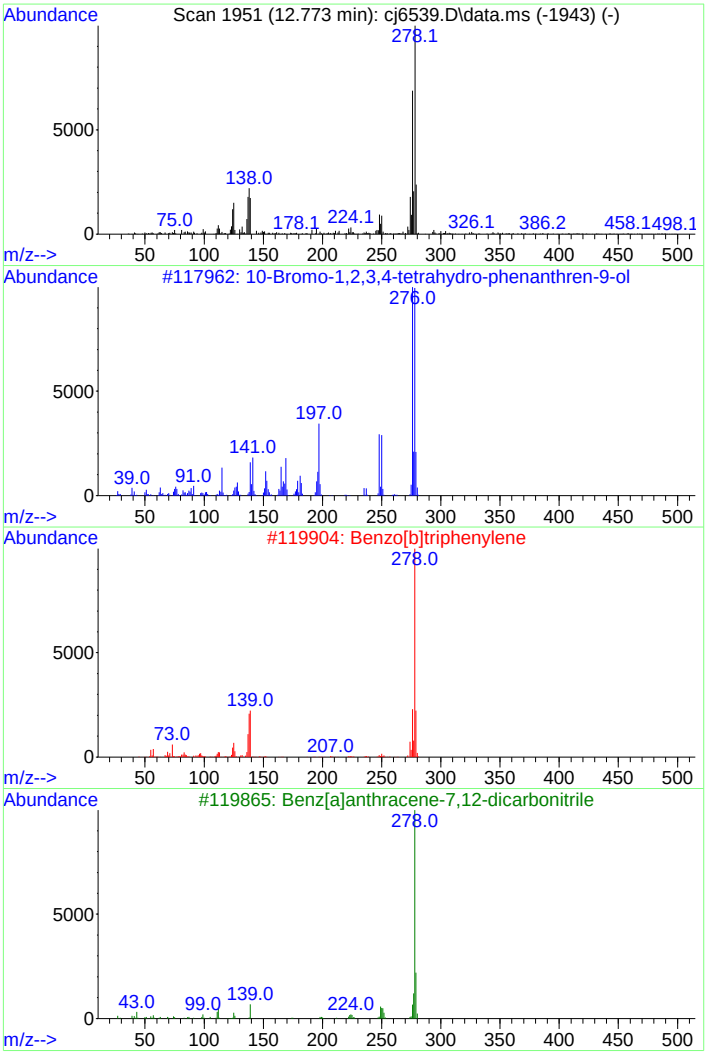
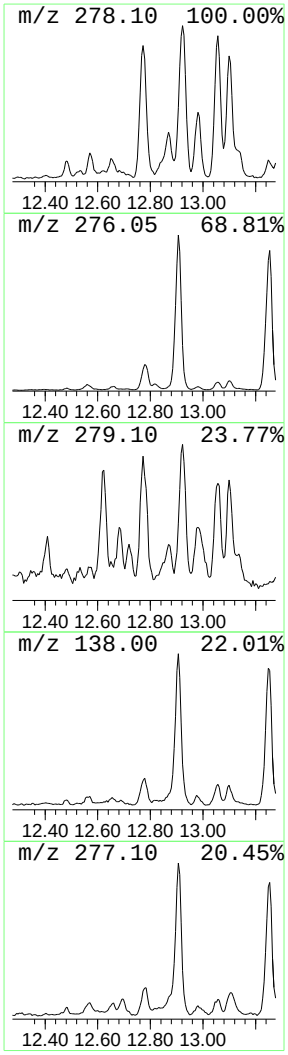
Peak Number 21 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.773	9.58 ppm	654321	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10-Bromo-1,2,3,4-tetrahydro-phen...	276	C14H13BrO	1000190-54-9	59
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	49
3	Benz[a]anthracene-7,12-dicarboni...	278	C20H10N2	035215-32-8	49
4	Benzo[b]triphenylene	278	C22H14	000215-58-7	49
5	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	46





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Acq On : 10 May 2024 12:35 am
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Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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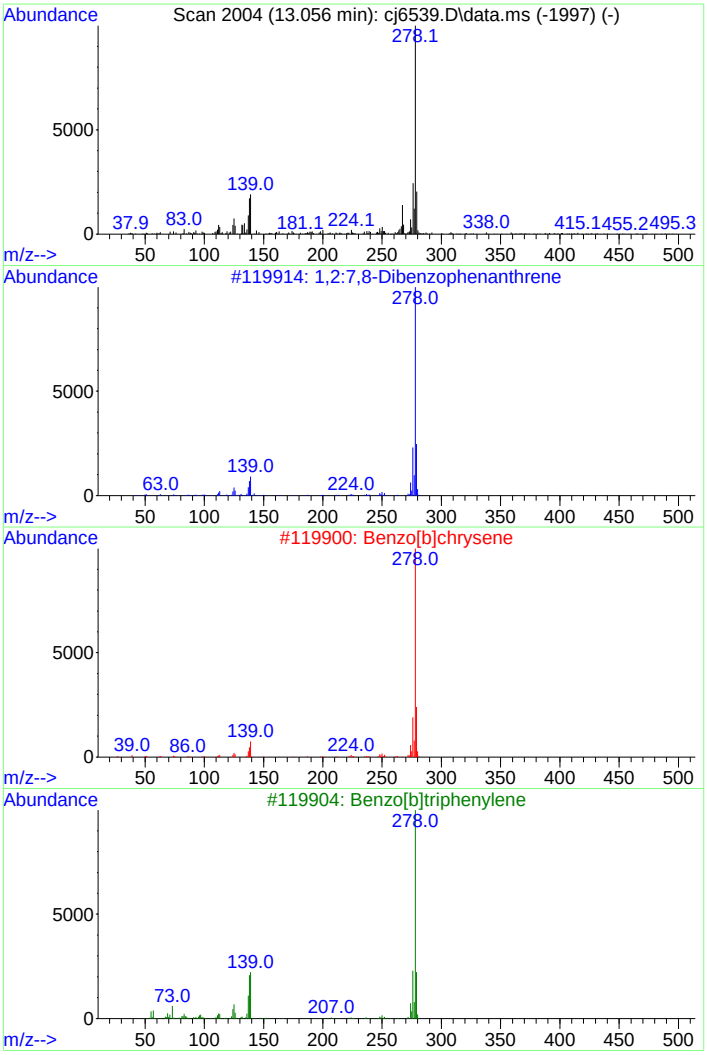
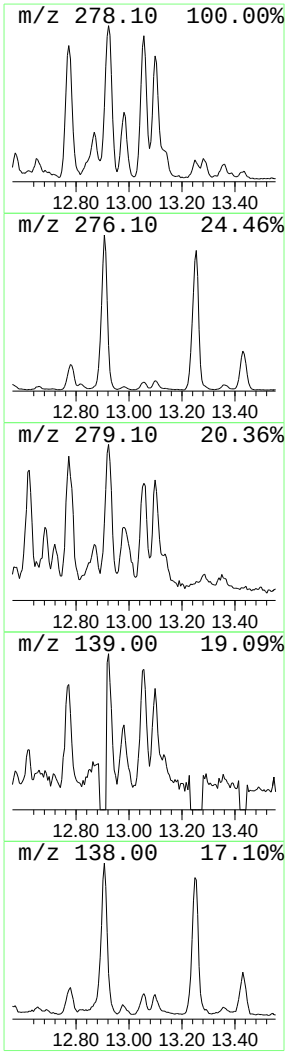
Peak Number 22 Unknown Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.056	5.97 ppm	407537	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	96
2	Benzo[b]chrysene	278	C22H14	000214-17-5	96
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
4	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	94
5	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	93





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Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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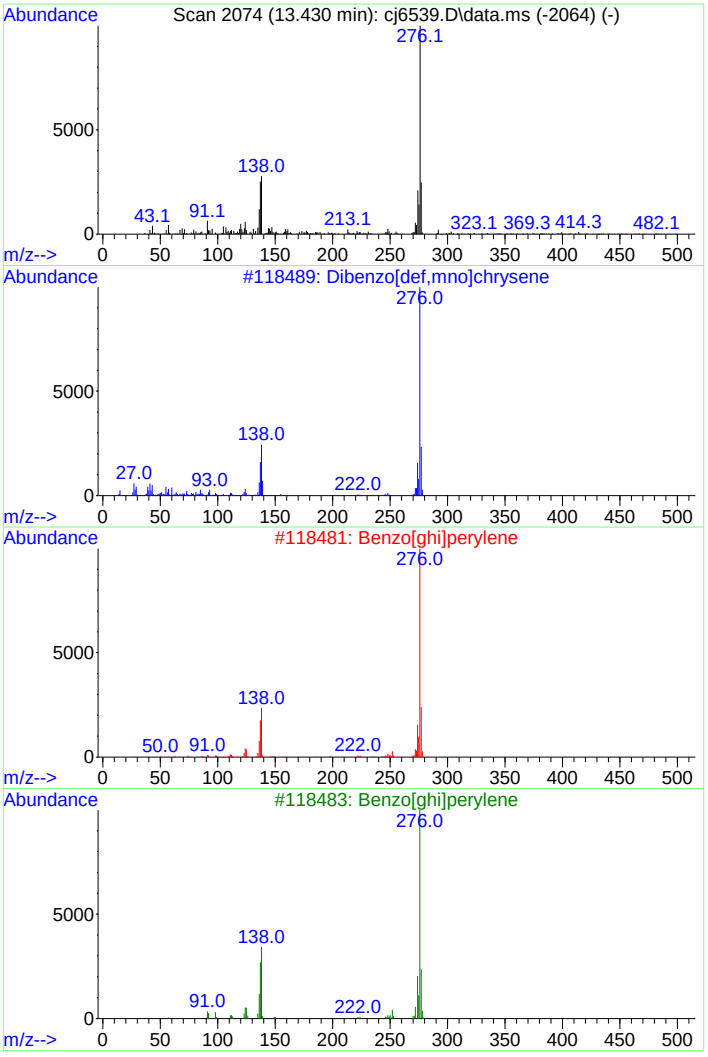
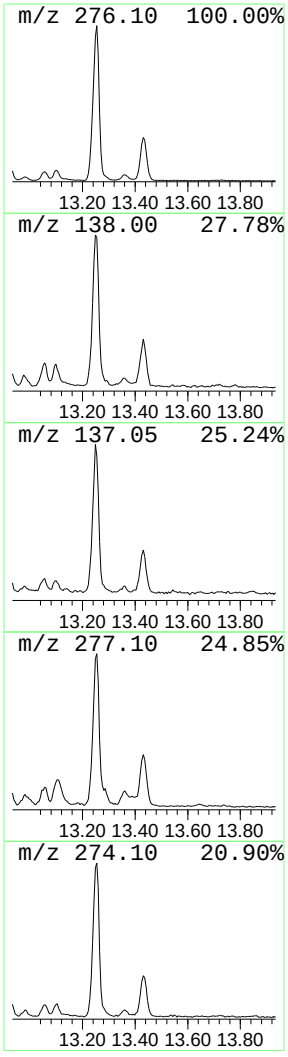
Peak Number 23 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.431	12.66 ppm	864092	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	95
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	94
3	Benzo[ghi]perylene	276	C22H12	000191-24-2	93
4	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	93
5	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

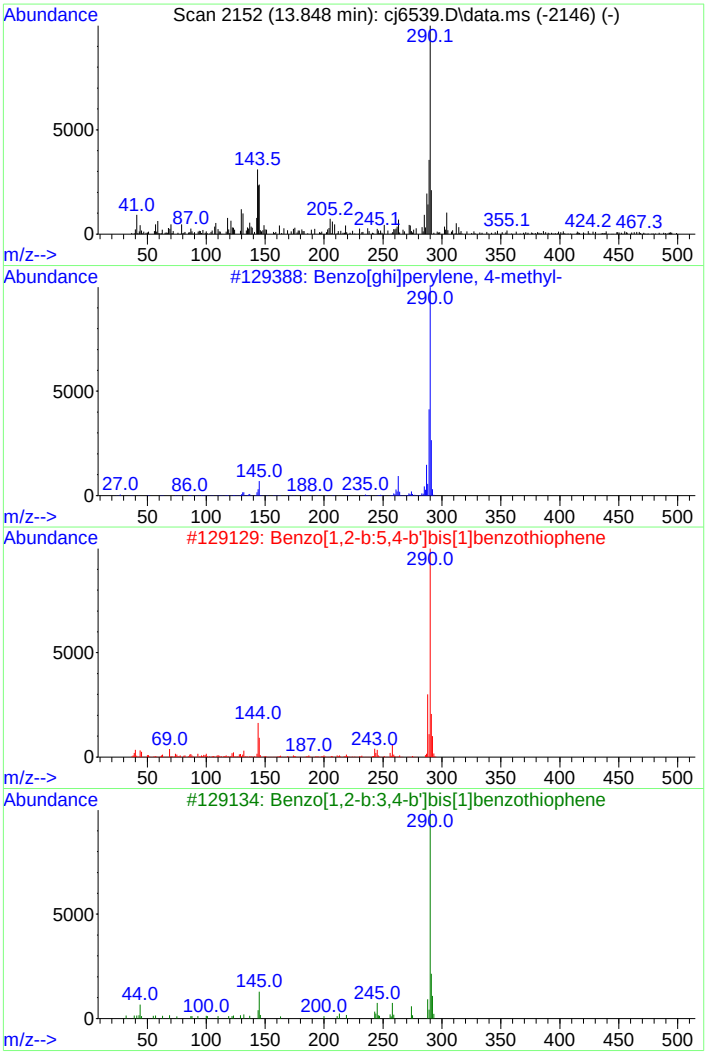
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

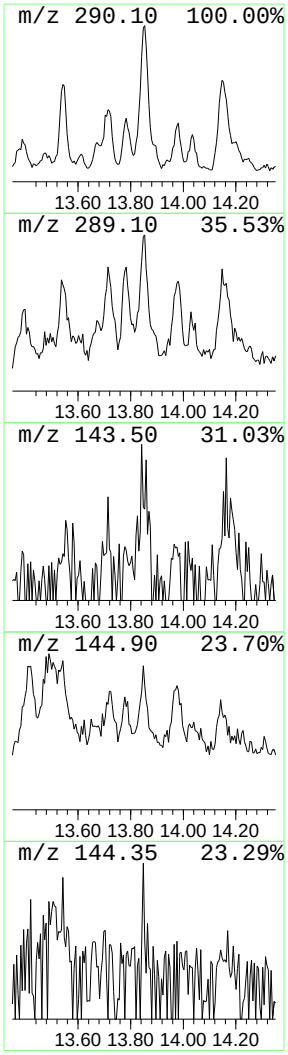
****

Peak Number 24 Unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.848	4.98 ppm	339731	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene, 4-methyl-	290	C23H14	019224-38-5	55
2	Benzo[1,2-b:5,4-b']bis[1]benzoth...	290	C18H10S2	000241-37-2	43
3	Benzo[1,2-b:3,4-b']bis[1]benzoth...	290	C18H10S2	000198-89-0	43
4	Benzo[2,1-b:3,4-b']bis[1]benzoth...	290	C18H10S2	000222-24-2	38
5	Ferrocene, benzoyl-	290	C17H14FeO	001272-44-2	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

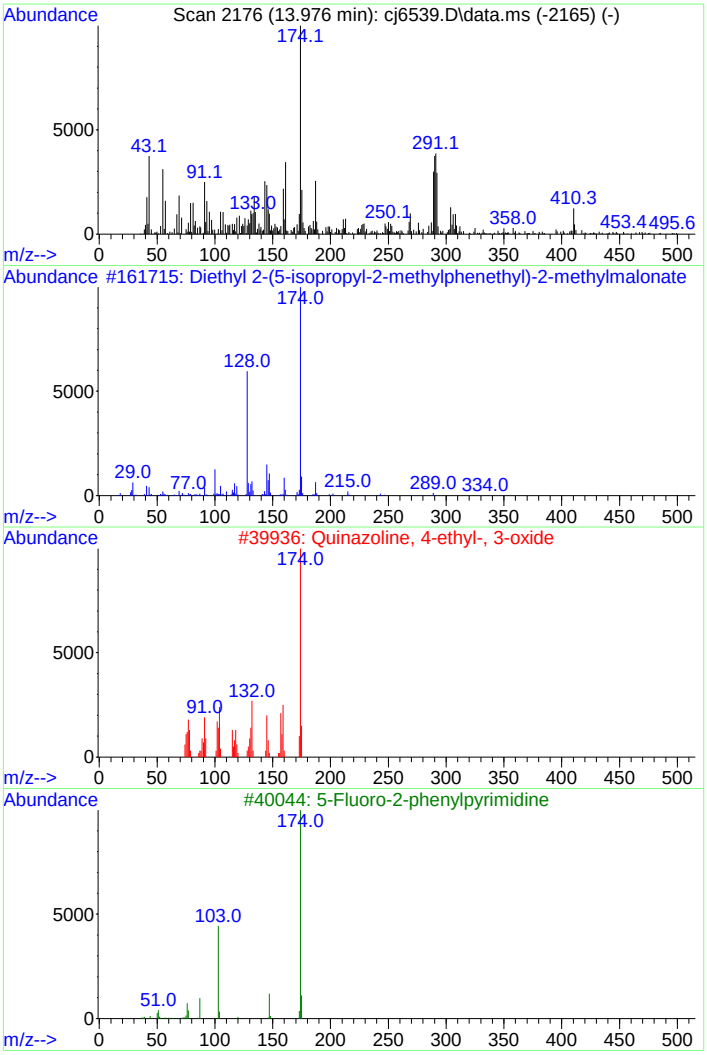
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

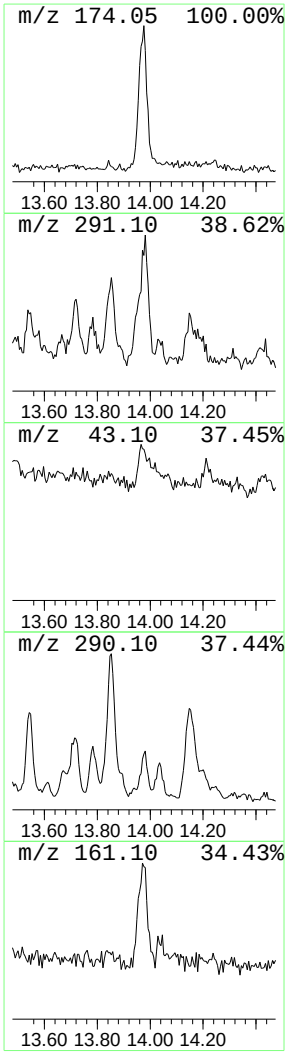
****

Peak Number 25 Unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.976	7.04 ppm	480828	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diethyl 2-(5-isopropyl-2-methylp...	334	C20H30O4	025391-07-5	25
2	Quinazoline, 4-ethyl-, 3-oxide	174	C10H10N2O	037920-74-4	25
3	5-Fluoro-2-phenylpyrimidine	174	C10H7FN2	054376-51-1	22
4	1H-Isoindole-1,3(2H)-dione, 2-[2...	309	C19H19NO3	1000350-33-0	22
5	Acetamide, 2,2,2-trifluoro-N-[2-...	300	C14H15F3N2O2	1000337-54-1	22





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6539.D
Acq On : 10 May 2024 12:35 am
Operator : rocquans
Sample : jd87833-7
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.252	12.0	ppm	616271	2	4.664	2046720	40.0
Phenanthrene, m...	8.322	5.9	ppm	454109	8	7.873	3070810	40.0
Phenanthrene, m...	8.349	4.9	ppm	373401	8	7.873	3070810	40.0
Unknown	8.424	17.2	ppm	1322510	8	7.873	3070810	40.0
Unknown	8.601	8.8	ppm	677679	8	7.873	3070810	40.0
Alkene	8.836	8.5	ppm	652129	8	7.873	3070810	40.0
Unknown	8.911	6.4	ppm	488587	8	7.873	3070810	40.0
Unknown	9.119	7.7	ppm	594136	8	7.873	3070810	40.0
Pyrene, methyl	9.521	9.2	ppm	1345670	9	10.371	5823310	40.0
Pyrene, methyl	9.585	5.0	ppm	735277	9	10.371	5823310	40.0
Benzo[b]naphtho...	10.114	4.9	ppm	716899	9	10.371	5823310	40.0
Unknown	10.275	5.0	ppm	729251	9	10.371	5823310	40.0
Unknown	11.050	6.3	ppm	428126	11	11.724	2731130	40.0
Unknown	11.200	7.1	ppm	484230	11	11.724	2731130	40.0
Unknown PHA Sub...	11.446	10.3	ppm	699728	11	11.724	2731130	40.0
Unknown	11.521	5.6	ppm	383413	11	11.724	2731130	40.0
Unknown PHA sus...	11.612	23.1	ppm	1578620	11	11.724	2731130	40.0
Unknown	11.869	6.0	ppm	413051	11	11.724	2731130	40.0
Unknown	12.179	5.0	ppm	340082	11	11.724	2731130	40.0
Unknown	12.666	8.7	ppm	591054	11	11.724	2731130	40.0
Unknown	12.773	9.6	ppm	654321	11	11.724	2731130	40.0
Unknown	13.056	6.0	ppm	407537	11	11.724	2731130	40.0
Unknown	13.431	12.7	ppm	864092	11	11.724	2731130	40.0
Unknown	13.848	5.0	ppm	339731	11	11.724	2731130	40.0
Unknown	13.976	7.0	ppm	480828	11	11.724	2731130	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jacky Takeuchi 05/10/24 22:07

Quantitation Report (LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6533.D
Acq On : 09 May 2024 10:41 pm
Operator : rocquans
Sample : jd87833-8 Inst : GCMSCJ
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 10 19:16:52 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

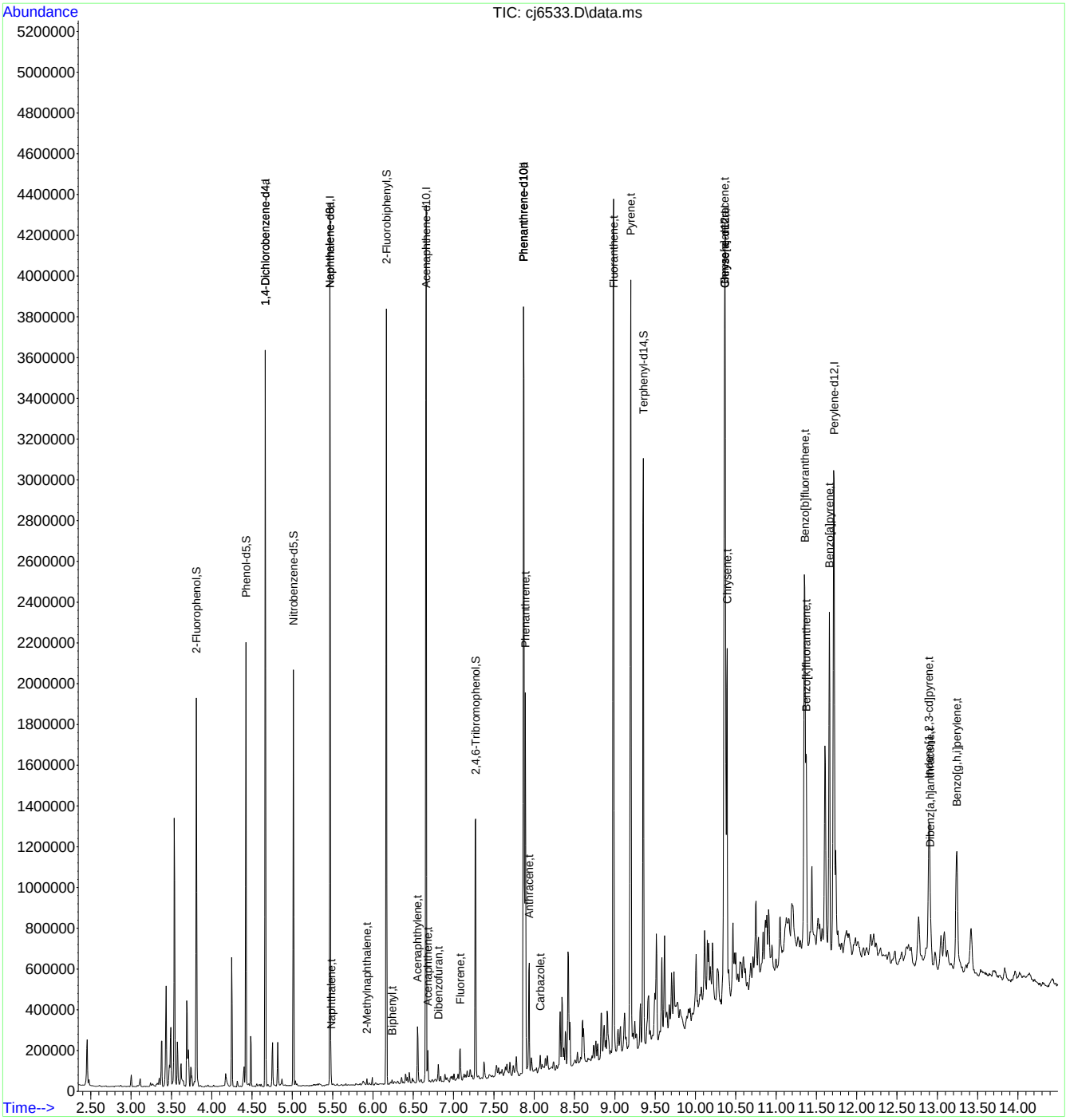
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.664	152	351776	40.00	ppm	0.00
24) Naphthalene-d8	5.466	136	1236733	40.00	ppm	0.00
46) Acenaphthene-d10	6.659	164	689793	40.00	ppm	0.00
69) Phenanthrene-d10	7.868	188	1237774	40.00	ppm	0.00
84) Chrysene-d12	10.366	240	873540	40.00	ppm	0.00
93) Perylene-d12	11.719	264	899719	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.664	152	351776	40.00	ppm	0.00
105) Phenanthrene-d10a	7.868	188	1237774	40.00	ppm	0.00
107) Naphthalene-d8a	5.466	136	1236733	40.00	ppm	0.00
109) Phenanthrene-d10b	7.868	188	1237774	40.00	ppm	# 0.00
112) Chrysene-d12a	10.366	240	873540	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.808	112	308872	30.55	ppm	0.01
Spiked Amount 50.000			Recovery =	61.10%		
8) Phenol-d5	4.423	99	422629	32.41	ppm	0.00
Spiked Amount 50.000			Recovery =	64.82%		
25) Nitrobenzene-d5	5.012	82	406557	32.11	ppm	0.00
Spiked Amount 50.000			Recovery =	64.22%		
51) 2-Fluorobiphenyl	6.167	172	749427	34.53	ppm	0.00
Spiked Amount 50.000			Recovery =	69.06%		
74) 2,4,6-Tribromophenol	7.274	330	107089	39.46	ppm	0.00
Spiked Amount 50.000			Recovery =	78.92%		
87) Terphenyl-d14	9.355	244	793544	36.77	ppm	0.00
Spiked Amount 50.000			Recovery =	73.54%		
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
38) Naphthalene	5.482	128	14034	0.4737	ppm	98
44) 2-Methylnaphthalene	5.926	141	5008	0.2851	ppm	92
53) Biphenyl	6.236	154	4078	0.1721	ppm	91
56) Acenaphthylene	6.552	152	98005	3.6632	ppm	100
59) Acenaphthene	6.680	153	26874	1.4125	ppm	96
62) Dibenzofuran	6.809	168	17630	0.6677	ppm	98
66) Fluorene	7.082	166	39207	1.8798	ppm	99
78) Phenanthrene	7.889	178	527531	17.6352	ppm	99
79) Anthracene	7.937	178	190818	6.3707	ppm	97
80) Carbazole	8.076	167	26436	0.9472	ppm	97
82) Fluoranthene	8.986	202	1586578	48.9915	ppm	100
86) Pyrene	9.200	202	1426229	48.0086	ppm	98
89) Benzo[a]anthracene	10.360	228	718393	25.5779	ppm	98
91) Chrysene	10.392	228	618944	23.8851	ppm	99
95) Benzo[b]fluoranthene	11.355	252	799054m	29.3994	ppm	
96) Benzo[k]fluoranthene	11.377	252	283263m	11.5822	ppm	
97) Benzo[a]pyrene	11.660	252	590528	26.2461	ppm	98
98) Indeno[1,2,3-cd]pyrene	12.896	276	384092	14.1210	ppm	96
100) Dibenz[a,h]anthracene	12.912	278	95604	4.3988	ppm	94
102) Benzo[g,h,i]perylene	13.243	276	355527	16.8197	ppm	97

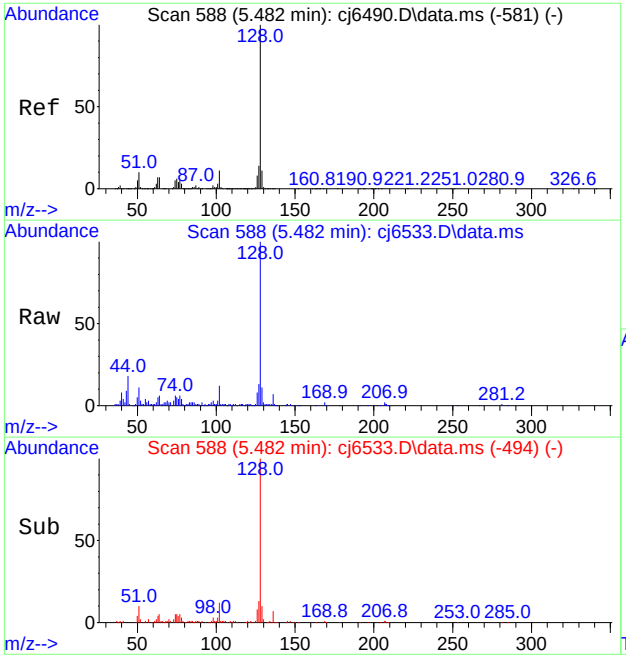
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6533.D
Acq On : 09 May 2024 10:41 pm
Operator : rocquans
Sample : jd87833-8 Inst : GCMSCJ
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 10 19:16:52 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

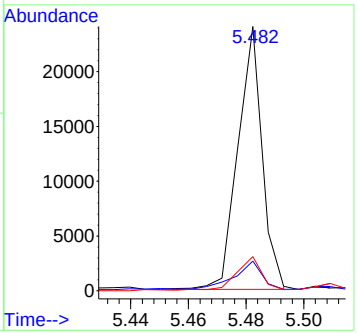


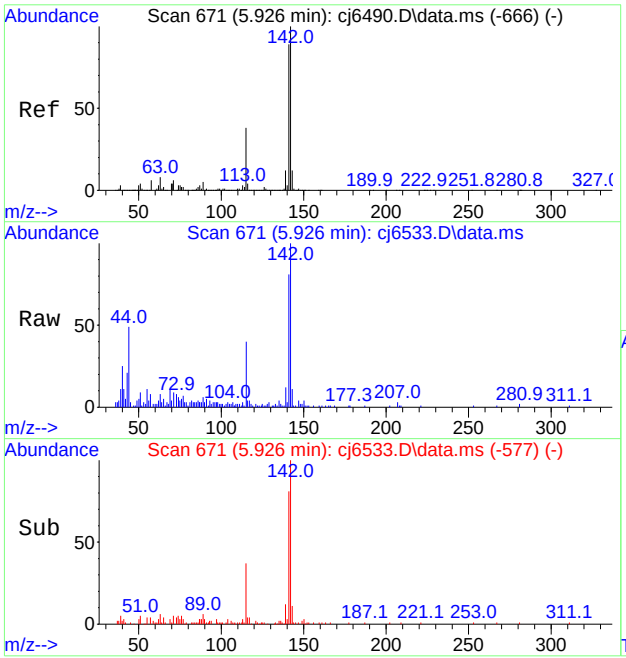


#38
Naphthalene
Concen: 0.4737 ppm
RT: 5.482 min Scan# 588
Delta R.T. 0.000 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:128 Resp: 14034

Ion	Ratio	Lower	Upper
128	100		
129	10.7	0.0	41.4
127	12.7	0.0	43.3

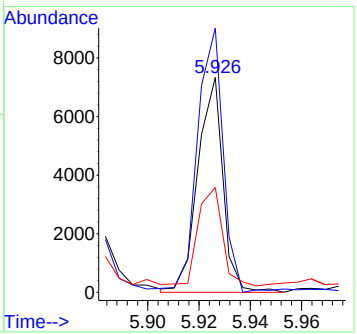


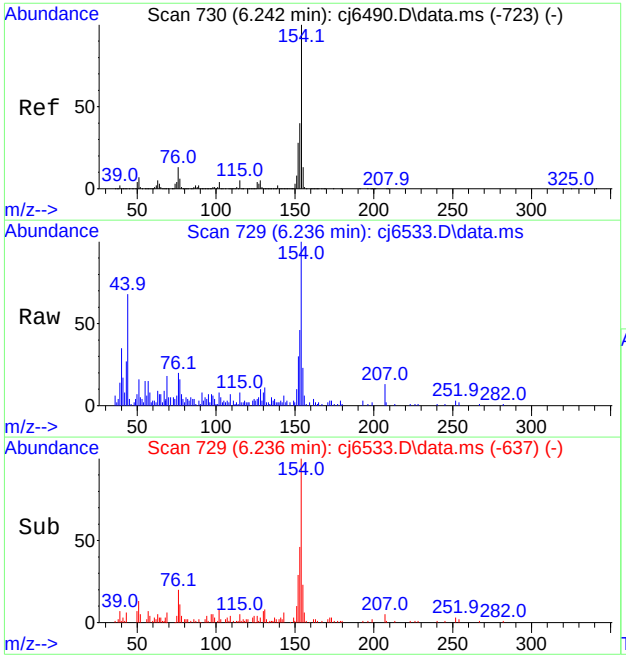


#44
2-Methylnaphthalene
Concen: 0.2851 ppm
RT: 5.926 min Scan# 671
Delta R.T. 0.000 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:141 Resp: 5008

Ion	Ratio	Lower	Upper
141	100		
142	122.8	82.7	142.7
115	45.2	12.4	72.4

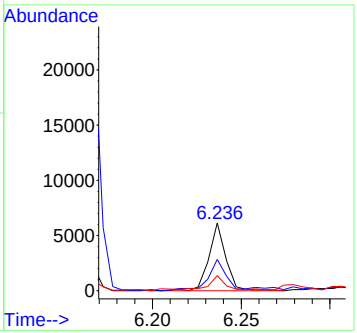


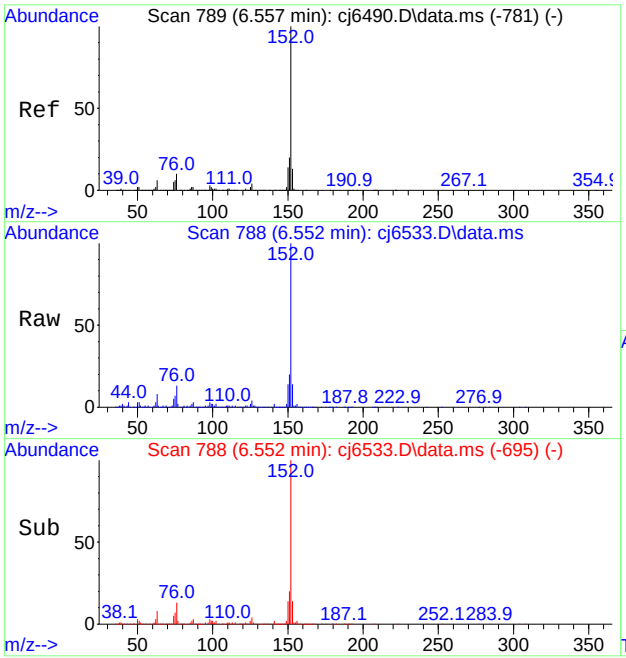


#53
Biphenyl
Concen: 0.1721 ppm
RT: 6.236 min Scan# 729
Delta R.T. -0.006 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:154 Resp: 4078

Ion	Ratio	Lower	Upper
154	100		
153	45.6	10.5	70.5
155	16.9	0.0	42.8

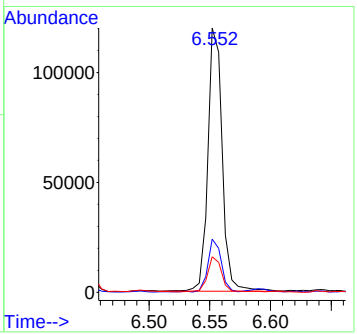


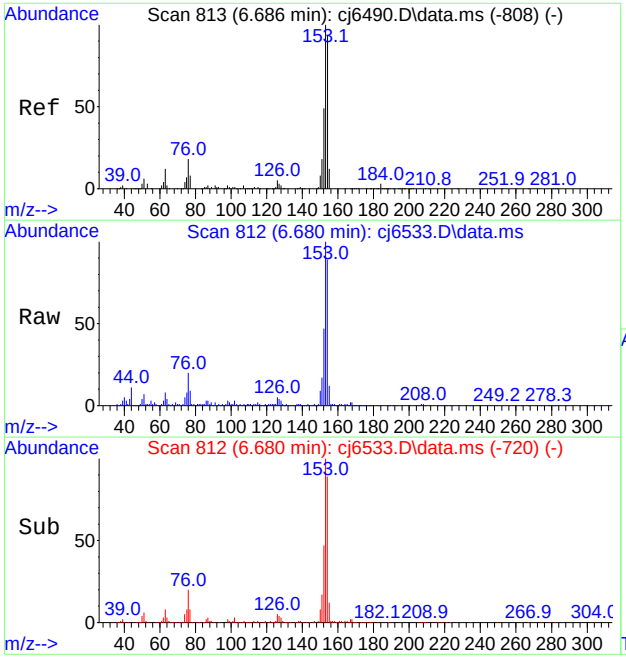


#56
Acenaphthylene
Concen: 3.6632 ppm
RT: 6.552 min Scan# 788
Delta R.T. -0.005 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:152 Resp: 98005

Ion	Ratio	Lower	Upper
152	100		
151	20.0	0.0	50.3
153	13.3	0.0	43.4

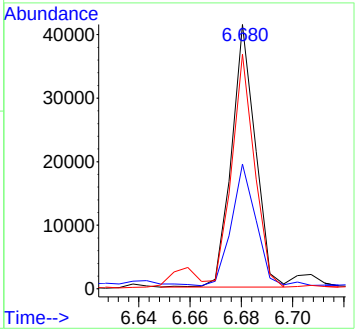


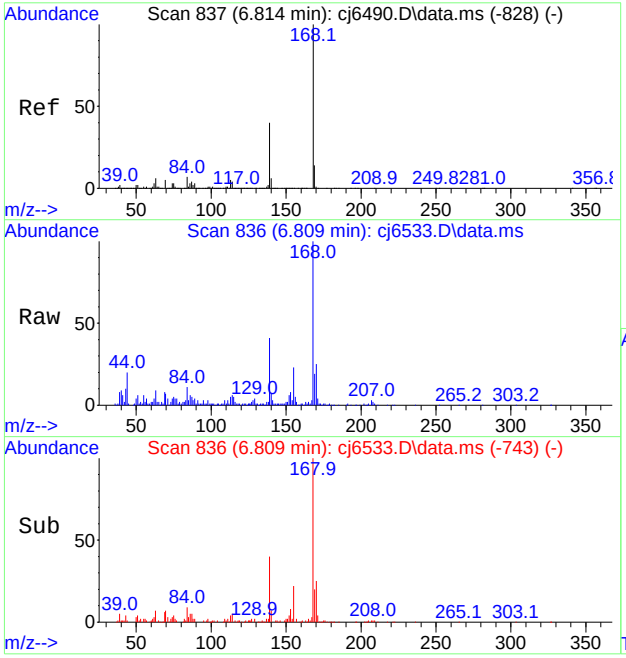


#59
Acenaphthene
Concen: 1.4125 ppm
RT: 6.680 min Scan# 812
Delta R.T. -0.006 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:153 Resp: 26874

Ion	Ratio	Lower	Upper
153	100		
152	46.0	18.8	78.8
154	88.7	62.9	122.9

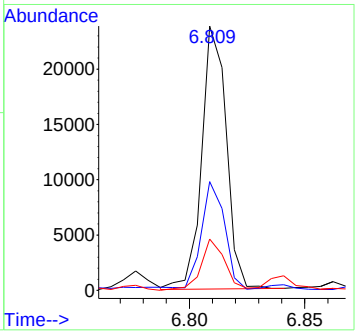


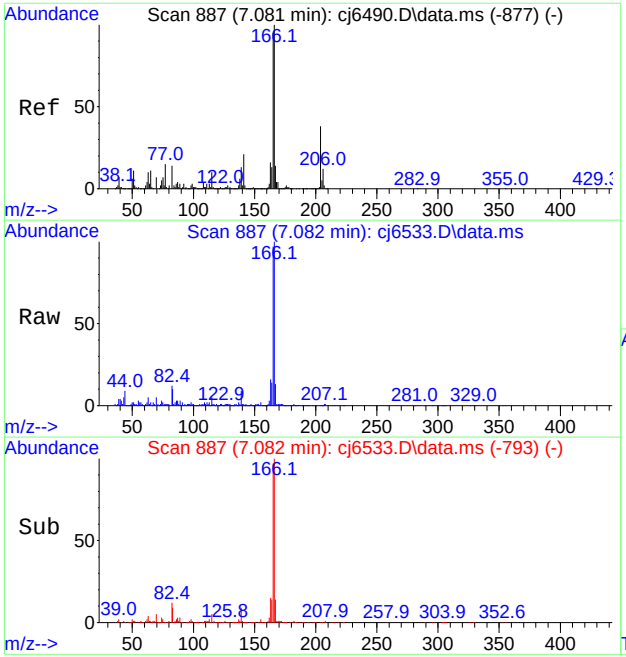


#62
Dibenzofuran
Concen: 0.6677 ppm
RT: 6.809 min Scan# 836
Delta R.T. -0.005 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:168 Resp: 17630

Ion	Ratio	Lower	Upper
168	100		
139	39.8	10.0	70.0
169	16.8	0.0	43.7

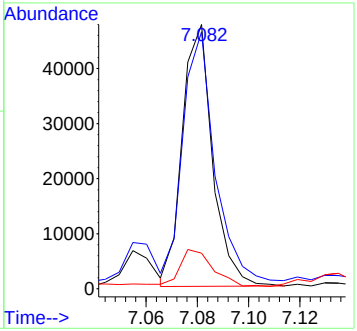


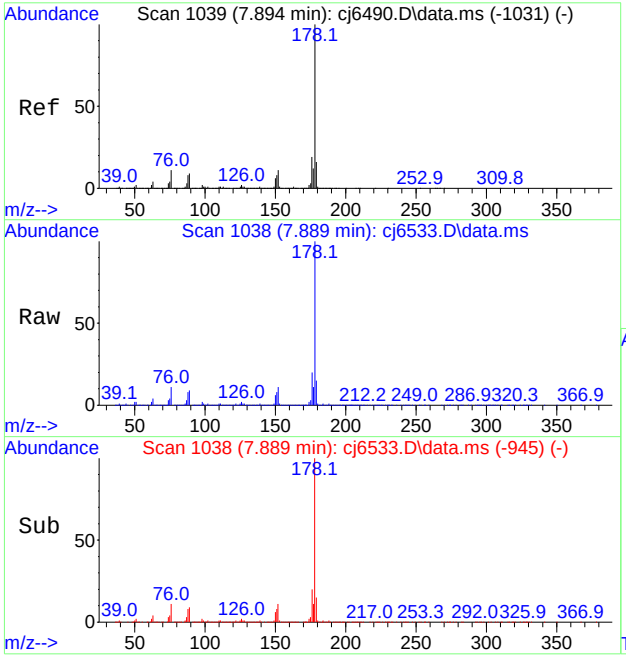


#66
Fluorene
Concen: 1.8798 ppm
RT: 7.082 min Scan# 887
Delta R.T. 0.001 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:166 Resp: 39207

Ion	Ratio	Lower	Upper
166	100		
165	95.2	65.4	125.4
167	12.0	0.0	43.8

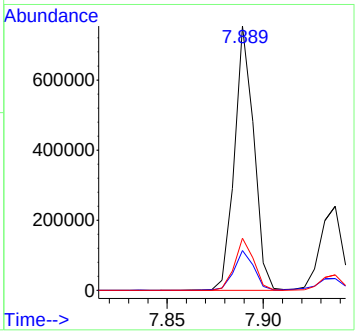


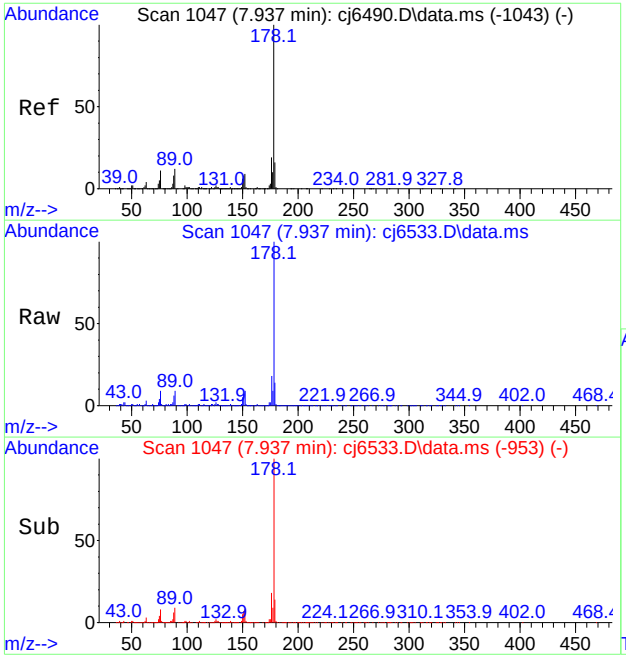


#78
Phenanthrene
Concen: 17.6352 ppm
RT: 7.889 min Scan# 1038
Delta R.T. -0.005 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:178 Resp: 527531

Ion	Ratio	Lower	Upper
178	100		
179	15.0	0.0	45.5
176	19.8	0.0	49.2

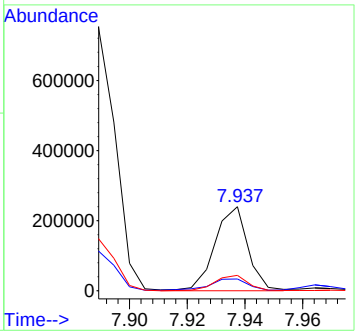


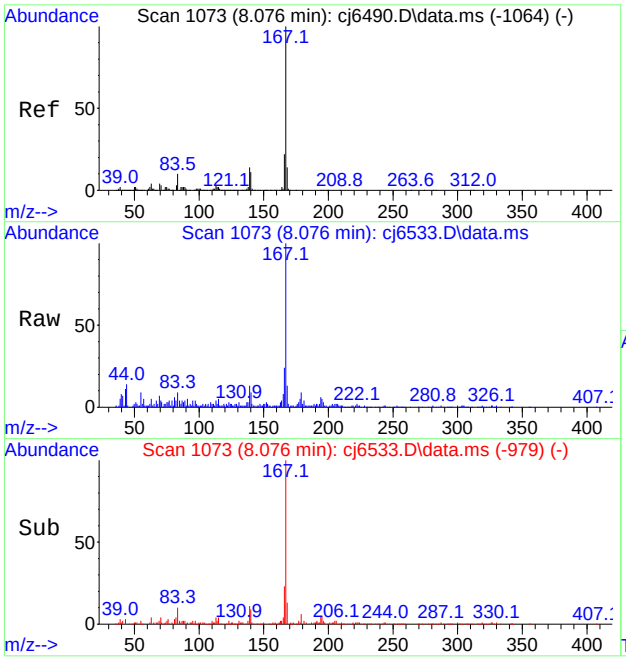


#79
Anthracene
Concen: 6.3707 ppm
RT: 7.937 min Scan# 1047
Delta R.T. 0.000 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:178 Resp: 190818

Ion	Ratio	Lower	Upper
178	100		
179	13.6	0.0	46.1
176	18.3	0.0	48.7

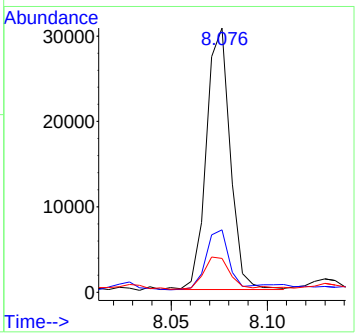


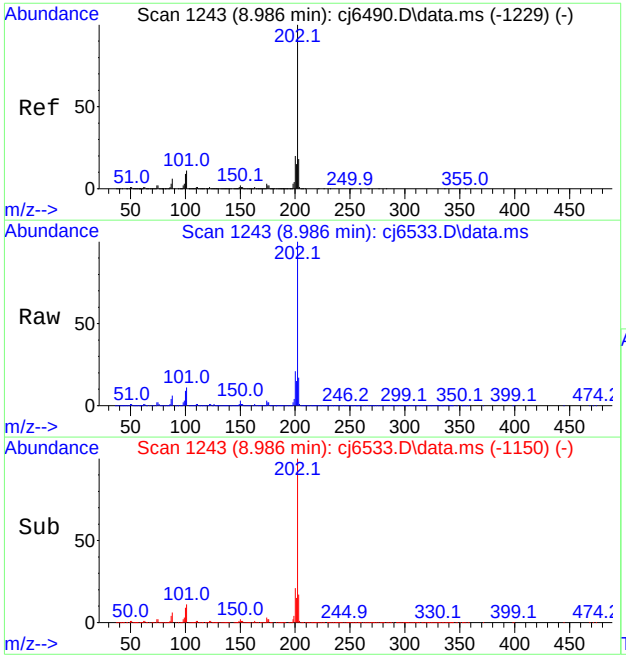


#80
Carbazole
Concen: 0.9472 ppm
RT: 8.076 min Scan# 1073
Delta R.T. 0.000 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:167 Resp: 26436

Ion	Ratio	Lower	Upper
167	100		
166	21.6	0.0	51.7
139	11.2	0.0	43.8

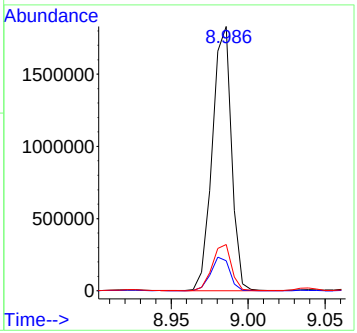


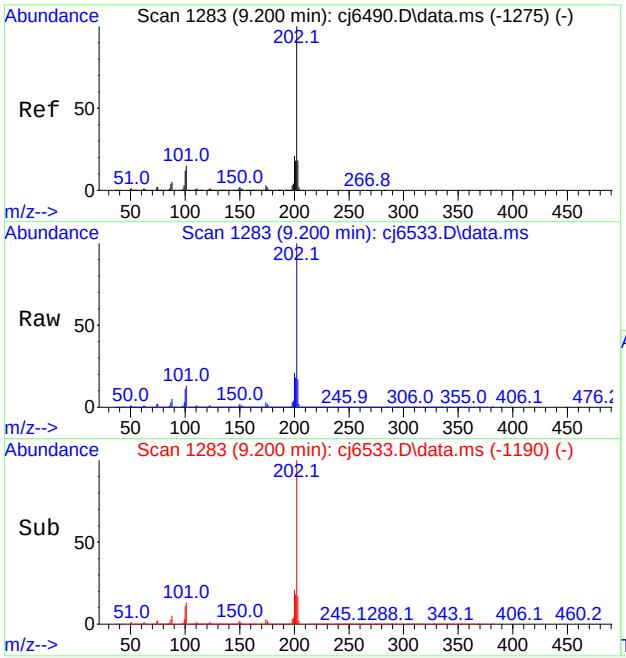


#82
Fluoranthene
Concen: 48.9915 ppm
RT: 8.986 min Scan# 1243
Delta R.T. -0.000 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:202 Resp: 1586578

Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	41.4
203	17.4	0.0	47.6

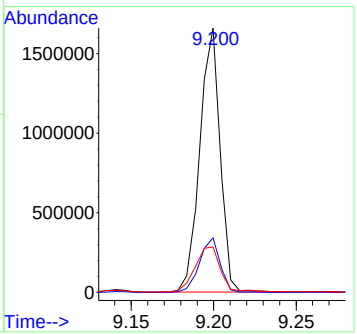


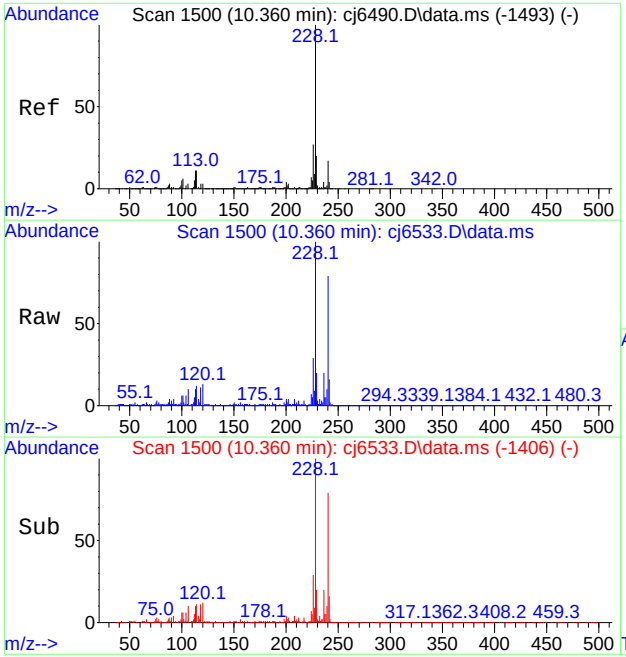


#86
Pyrene
Concen: 48.0086 ppm
RT: 9.200 min Scan# 1283
Delta R.T. -0.000 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:202 Resp: 1426229

Ion	Ratio	Lower	Upper
202	100		
200	20.7	0.0	51.4
203	17.0	0.0	47.8

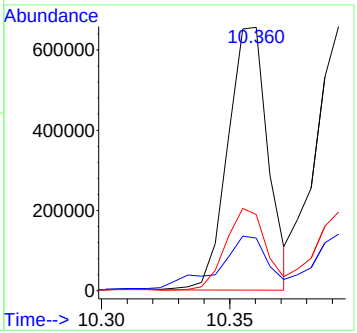


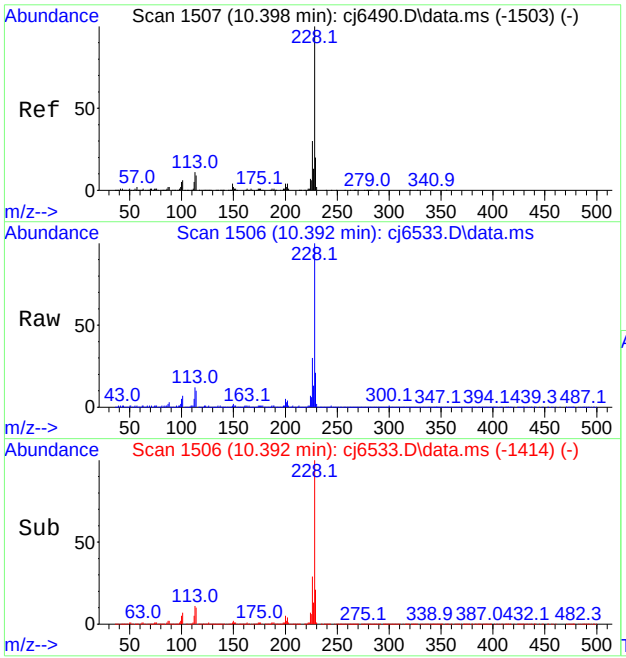


#89
Benzo[a]anthracene
Concen: 25.5779 ppm
RT: 10.360 min Scan# 1500
Delta R.T. 0.000 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:228 Resp: 718393

Ion	Ratio	Lower	Upper
228	100		
229	18.9	0.0	49.8
226	28.5	0.0	57.1

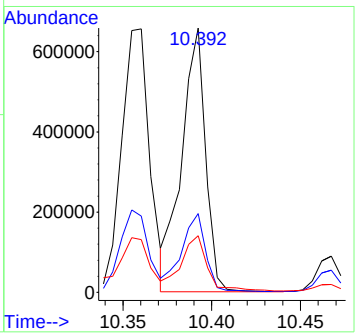


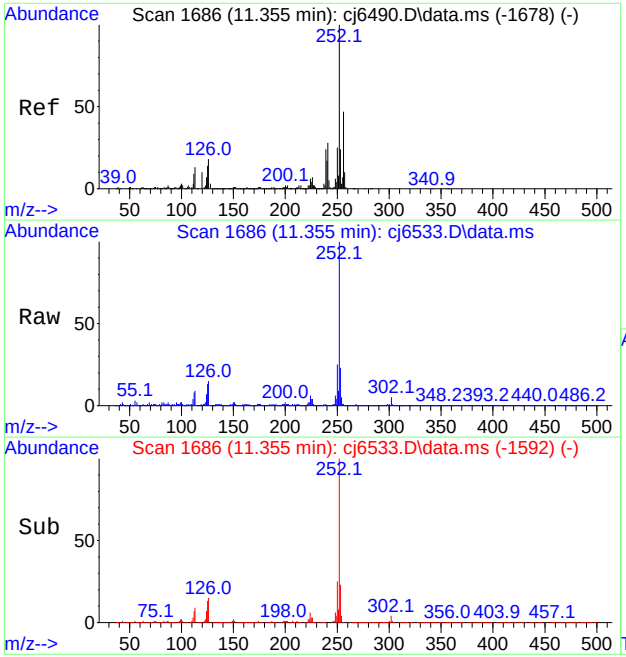


#91
Chrysene
Concen: 23.8851 ppm
RT: 10.392 min Scan# 1506
Delta R.T. -0.006 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:228 Resp: 618944

Ion	Ratio	Lower	Upper
228	100		
226	29.4	0.0	59.9
229	20.9	0.0	49.8

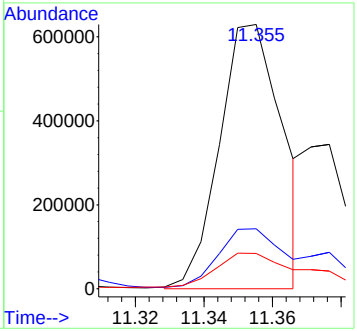


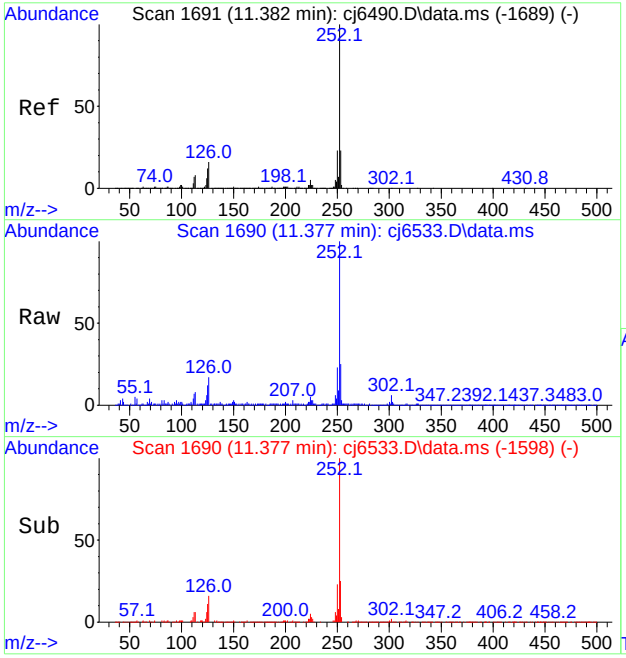


#95
Benzo[b]fluoranthene
Concen: 29.3994 ppm m
RT: 11.355 min Scan# 1686
Delta R.T. 0.000 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:252 Resp: 799054

Ion	Ratio	Lower	Upper
252	100		
253	22.7	0.0	54.7
125	13.4	0.0	44.2

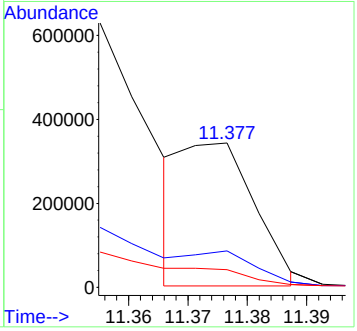


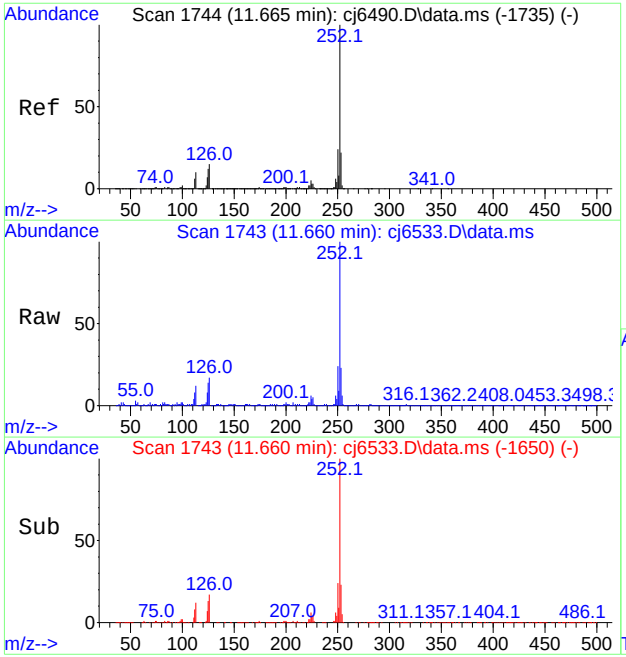


#96
Benzo[k]fluoranthene
Concen: 11.5822 ppm m
RT: 11.377 min Scan# 1690
Delta R.T. -0.005 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:252 Resp: 283263

Ion	Ratio	Lower	Upper
252	100		
253	25.3	0.0	52.6
125	12.2	0.0	42.4

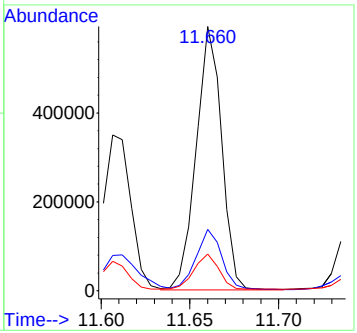


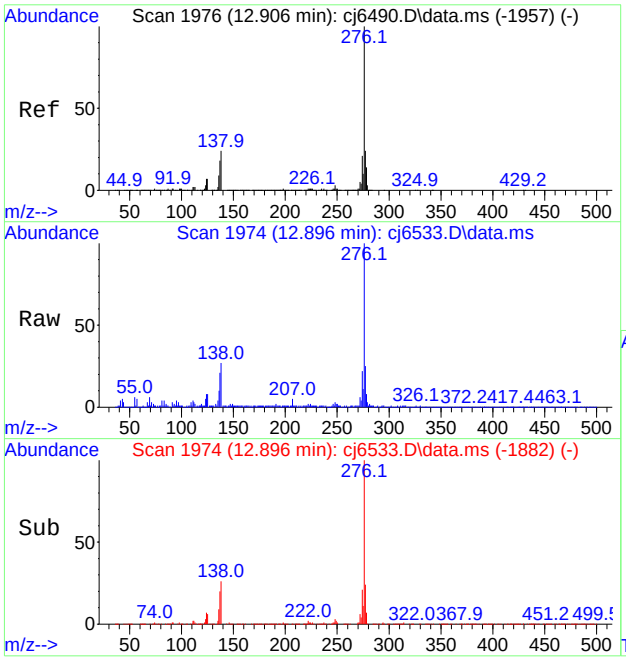


#97
Benzo[a]pyrene
Concen: 26.2461 ppm
RT: 11.660 min Scan# 1743
Delta R.T. -0.005 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:252 Resp: 590528

Ion	Ratio	Lower	Upper
252	100		
253	22.3	0.0	51.9
125	13.3	0.0	42.1

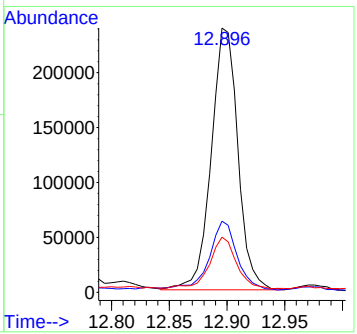


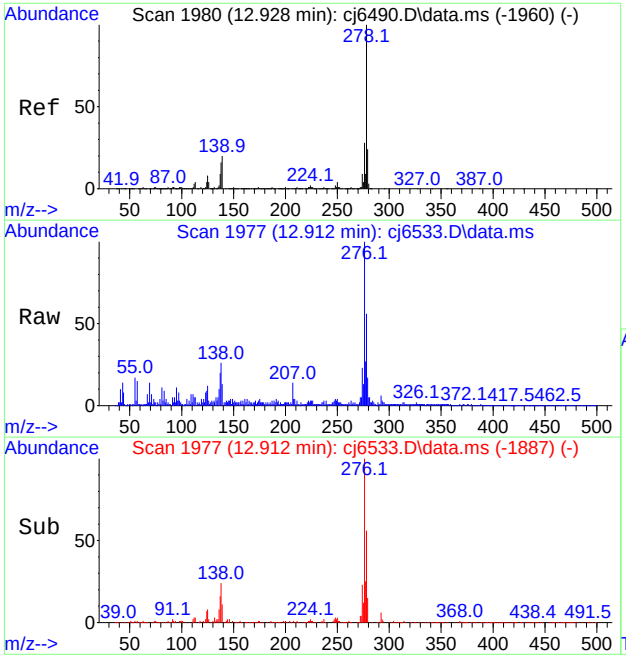


#98
Indeno[1,2,3-cd]pyrene
Concen: 14.1210 ppm
RT: 12.896 min Scan# 1974
Delta R.T. -0.010 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:276 Resp: 384092

Ion	Ratio	Lower	Upper
276	100		
138	25.9	0.0	54.2
137	19.5	0.0	47.9

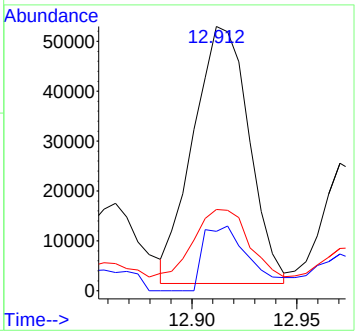


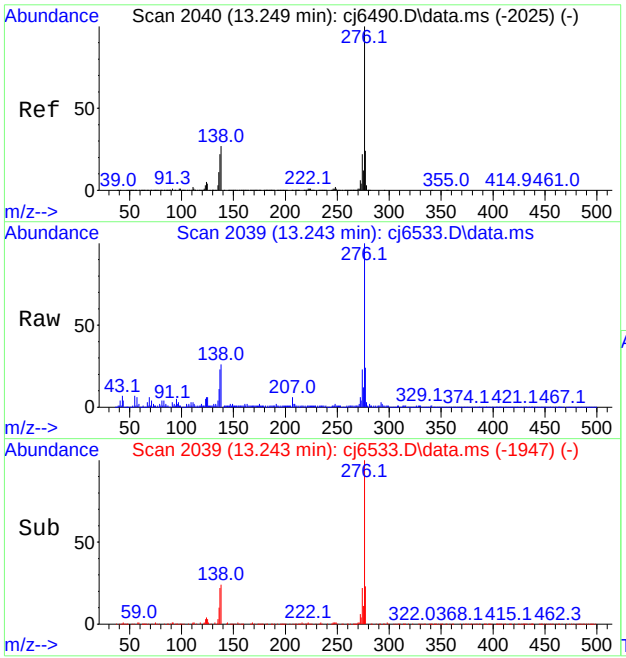


#100
Dibenz[a,h]anthracene
Concen: 4.3988 ppm
RT: 12.912 min Scan# 1977
Delta R.T. -0.016 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:278 Resp: 95604

Ion	Ratio	Lower	Upper
278	100		
139	22.0	0.0	49.8
279	27.3	0.0	54.1

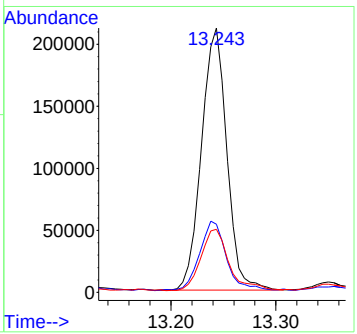




#102
Benzo[g,h,i]perylene
Concen: 16.8197 ppm
RT: 13.243 min Scan# 2039
Delta R.T. -0.006 min
Lab File: cj6533.D
Acq: 09 May 2024 10:41 pm

Tgt Ion:276 Resp: 355527

Ion	Ratio	Lower	Upper
276	100		
138	24.9	0.0	56.7
277	23.1	0.0	54.1



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj297\
Data File : cj6533.D
Acq On : 09 May 2024 10:41 pm
Operator : rocquans
Sample : jd87833-8
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6533.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.172	336	343	352	rVB	63104	82396	1.58%	0.126%
2	4.247	352	357	363	rVB	634906	396750	7.63%	0.608%
3	4.402	379	386	387	rBV	98205	89265	1.72%	0.137%
4	4.423	387	390	395	rVV	2177909	1229657	23.65%	1.884%
5	4.482	399	401	407	rVB	246499	160660	3.09%	0.246%
6	4.664	431	435	439	rBV	3613618	2140471	41.17%	3.280%
7	4.755	445	452	460	rBV	216241	161013	3.10%	0.247%
8	4.819	460	464	469	rBV	215547	149377	2.87%	0.229%
9	5.012	495	500	504	rVV	2040911	1161667	22.34%	1.780%
10	5.466	580	585	590	rVV	4322699	2662144	51.20%	4.079%
11	6.167	709	716	721	rBV	3806269	2270698	43.67%	3.479%
12	6.552	784	788	793	rBV	277669	218639	4.20%	0.335%
13	6.659	800	808	811	rBV	4306755	3046713	58.59%	4.668%
14	6.680	811	812	815	rVB	154245	74900	1.44%	0.115%
15	7.082	884	887	892	rVB	154906	141716	2.73%	0.217%
16	7.274	917	923	927	rBV	1276091	1071316	20.60%	1.641%
17	7.376	939	942	949	rVB2	83971	82025	1.58%	0.126%
18	7.531	965	971	974	rBV3	56688	72194	1.39%	0.111%
19	7.777	1013	1017	1023	rVB	93793	112555	2.16%	0.172%
20	7.868	1029	1034	1037	rBV	3763224	3347488	64.38%	5.129%
21	7.889	1037	1038	1042	rVB	1845708	994384	19.12%	1.524%
22	7.937	1042	1047	1050	rVB	527893	433004	8.33%	0.663%
23	8.076	1066	1073	1075	rBV2	87040	104970	2.02%	0.161%
24	8.162	1086	1089	1093	rVB4	68741	73763	1.42%	0.113%
25	8.322	1112	1119	1121	rBV	280080	257818	4.96%	0.395%
26	8.344	1121	1123	1126	rVB	294201	215960	4.15%	0.331%
27	8.387	1129	1131	1134	rVB	160435	130888	2.52%	0.201%
28	8.419	1134	1137	1146	rVB	561343	710172	13.66%	1.088%
29	8.601	1162	1171	1178	rBV2	210050	353158	6.79%	0.541%
30	8.734	1190	1196	1199	rBV2	78568	97270	1.87%	0.149%
31	8.836	1209	1215	1218	rBV	229709	263810	5.07%	0.404%
32	8.868	1218	1221	1224	rBV	127264	129930	2.50%	0.199%
33	8.906	1224	1228	1234	rVB2	212377	273566	5.26%	0.419%
34	8.986	1235	1243	1248	rBV	4193648	3782352	72.74%	5.795%
35	9.039	1248	1253	1255	rBV3	108759	109565	2.11%	0.168%
36	9.071	1255	1259	1262	rVB2	122913	123639	2.38%	0.189%
37	9.119	1262	1268	1275	rBV4	189158	289482	5.57%	0.444%
38	9.200	1275	1283	1290	rBV	3772856	3875829	74.54%	5.938%
39	9.317	1299	1305	1307	rBV	222232	205816	3.96%	0.315%
40	9.355	1307	1312	1317	rVB	2872236	2462442	47.36%	3.773%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj297\
Data File : cj6533.D
Acq On : 09 May 2024 10:41 pm
Operator : rocquans
Sample : jd87833-8
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.419	1317	1324	1330	rBV3	236646	419013	8.06%	0.642%
42	9.515	1331	1342	1346	rVB2	521991	760616	14.63%	1.165%
43	9.585	1346	1355	1358	rBV	405825	459830	8.84%	0.705%
44	9.617	1358	1361	1364	rBV	447214	384700	7.40%	0.589%
45	9.676	1369	1372	1374	rBV	115447	105972	2.04%	0.162%
46	9.702	1374	1377	1380	rBV	227032	190940	3.67%	0.293%
47	9.735	1380	1383	1386	rVV	218554	204550	3.93%	0.313%
48	9.777	1388	1391	1394	rVB4	77557	95859	1.84%	0.147%
49	9.809	1394	1397	1408	rVB7	96161	217181	4.18%	0.333%
50	9.916	1408	1417	1418	rBV6	98276	188541	3.63%	0.289%
51	10.007	1427	1434	1439	rBV2	296223	380959	7.33%	0.584%
52	10.072	1440	1446	1449	rBV5	92769	142496	2.74%	0.218%
53	10.114	1449	1454	1458	rBV3	340360	385275	7.41%	0.590%
54	10.146	1458	1460	1466	rVV2	271231	445634	8.57%	0.683%
55	10.184	1466	1467	1470	rVV	140032	117128	2.25%	0.179%
56	10.211	1470	1472	1478	rVB	277752	270866	5.21%	0.415%
57	10.275	1480	1484	1493	rVB3	175917	307248	5.91%	0.471%
58	10.366	1493	1501	1504	rBV2	3836510	5199659	100.00%	7.967%
59	10.392	1504	1506	1514	rVB	1707523	1402785	26.98%	2.149%
60	10.467	1514	1520	1522	rBV3	360590	430008	8.27%	0.659%
61	10.483	1522	1523	1525	rVV2	177628	137408	2.64%	0.211%
62	10.553	1533	1536	1541	rVV3	124929	232983	4.48%	0.357%
63	10.596	1541	1544	1551	rVB4	144711	267912	5.15%	0.410%
64	10.687	1556	1561	1563	rBV3	133083	182552	3.51%	0.280%
65	10.713	1563	1566	1568	rBV	103879	94996	1.83%	0.146%
66	10.751	1568	1573	1576	rBV	327832	356780	6.86%	0.547%
67	10.783	1576	1579	1582	rVB	171796	155090	2.98%	0.238%
68	10.842	1583	1590	1592	rBV2	195024	247347	4.76%	0.379%
69	10.868	1592	1595	1596	rBV3	191861	182731	3.51%	0.280%
70	10.906	1600	1602	1607	rVB2	235724	237663	4.57%	0.364%
71	10.949	1607	1610	1616	rVB2	124435	147609	2.84%	0.226%
72	11.050	1624	1629	1633	rBV3	242090	353143	6.79%	0.541%
73	11.125	1636	1643	1647	rBV4	167380	398938	7.67%	0.611%
74	11.195	1653	1656	1667	rVB4	210480	488942	9.40%	0.749%
75	11.350	1679	1685	1694	rBV	1835266	3250629	62.52%	4.980%
76	11.446	1695	1703	1712	rBV2	386566	540117	10.39%	0.828%
77	11.521	1712	1717	1724	rBV4	130541	286552	5.51%	0.439%
78	11.607	1729	1733	1739	rVB	965877	1065007	20.48%	1.632%
79	11.660	1739	1743	1747	rVB	1658651	1602119	30.81%	2.455%
80	11.714	1747	1753	1766	rBV2	2354379	3249662	62.50%	4.979%
81	11.874	1775	1783	1787	rBV8	111411	288646	5.55%	0.442%
82	11.986	1796	1804	1806	rBV5	82298	156581	3.01%	0.240%
83	12.013	1807	1809	1818	rVB6	77246	145354	2.80%	0.223%
84	12.174	1834	1839	1842	rVV2	103090	158568	3.05%	0.243%
85	12.211	1842	1846	1849	rVV4	105729	164871	3.17%	0.253%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj297\
Data File : cj6533.D
Acq On : 09 May 2024 10:41 pm
Operator : rocquans
Sample : jd87833-8
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.398	1878	1881	1886	rVB6	56874	81584	1.57%	0.125%
87	12.473	1886	1895	1901	rVB6	68192	141677	2.72%	0.217%
88	12.559	1902	1911	1915	rBV10	63271	136633	2.63%	0.209%
89	12.623	1916	1923	1925	rBV4	59331	115067	2.21%	0.176%
90	12.767	1942	1950	1961	rBV3	240507	515852	9.92%	0.790%
91	12.896	1962	1974	1985	rVV2	697849	1417281	27.26%	2.171%
92	12.971	1985	1988	1995	rVB	87944	135918	2.61%	0.208%
93	13.045	1995	2002	2006	rBV	169871	300616	5.78%	0.461%
94	13.088	2006	2010	2015	rVV4	165498	296830	5.71%	0.455%
95	13.126	2015	2017	2023	rVB6	74627	91547	1.76%	0.140%
96	13.243	2031	2039	2054	rVB	593538	1167916	22.46%	1.789%
97	13.420	2062	2072	2081	rVB2	219528	487437	9.37%	0.747%
98	13.837	2145	2150	2161	rVB5	63734	110615	2.13%	0.169%
99	13.965	2168	2174	2180	rBV5	45141	92180	1.77%	0.141%
100	14.425	2252	2260	2266	rBV5	40779	115423	2.22%	0.177%

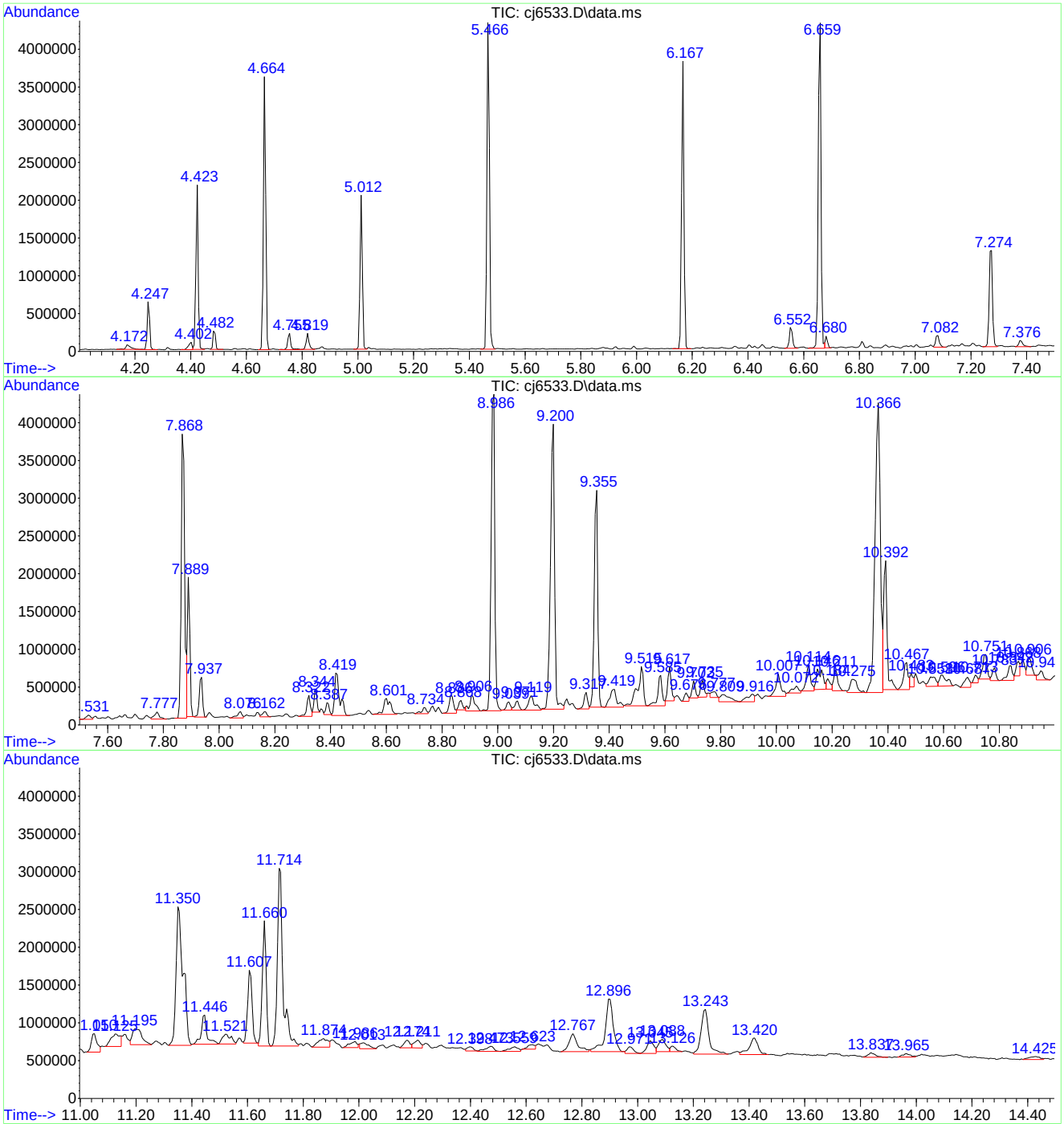
Sum of corrected areas: 65267498

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj297\
Data File : cj6533.D
Acq On : 09 May 2024 10:41 pm
Operator : rocquans
Sample : jd87833-8
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj297\
Data File : cj6533.D
Acq On : 09 May 2024 10:41 pm
Operator : rocquans
Sample : jd87833-8
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

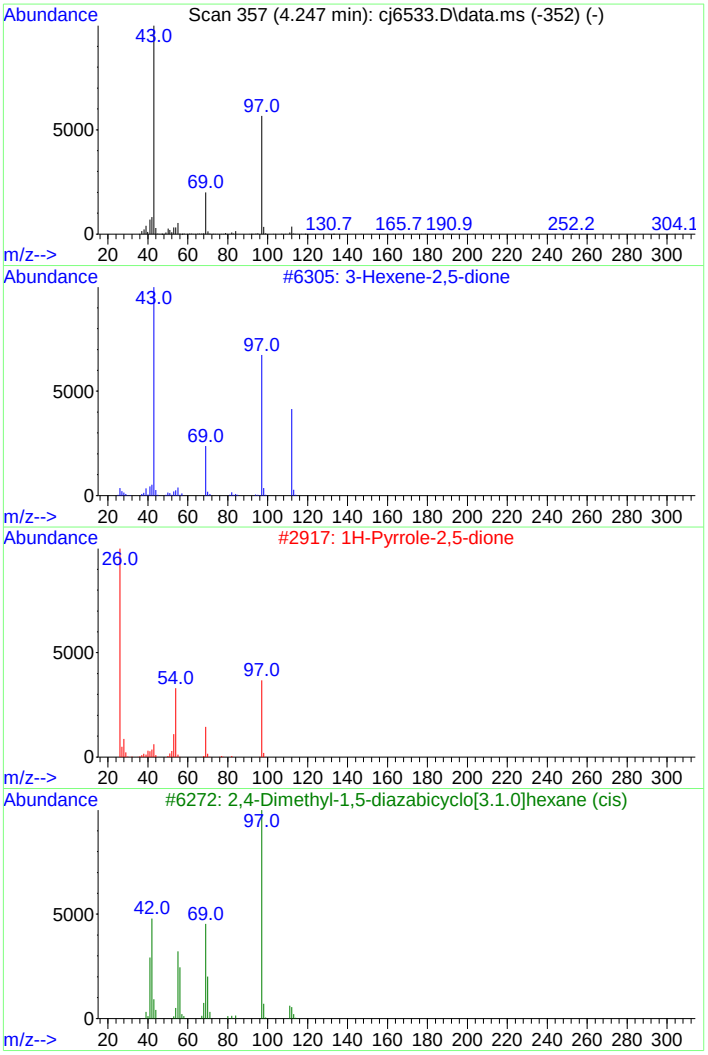
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

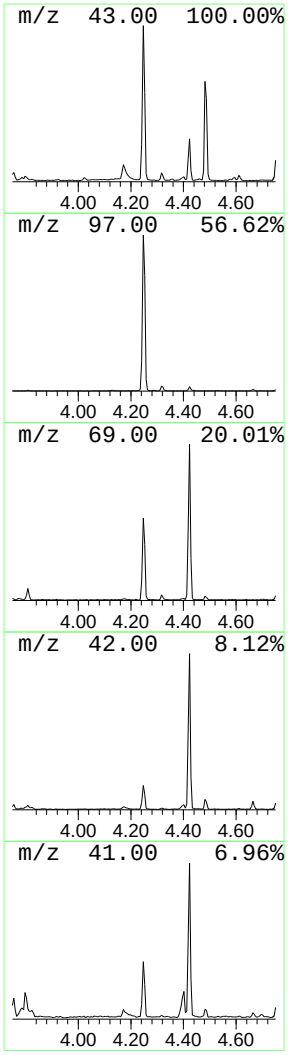
****

Peak Number 1 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.247	7.41 ppm	396750	1,4-Dichlorobenzene-d4a	4.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexene-2,5-dione	112	C6H8O2	004436-75-3	78
2	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	53
3	2,4-Dimethyl-1,5-diazabicyclo[3....	112	C6H12N2	100463-01-2	28
4	5-Hexen-2-one	98	C6H10O	000109-49-9	14
5	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	9





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj297\
Data File : cj6533.D
Acq On : 09 May 2024 10:41 pm
Operator : rocquans
Sample : jd87833-8
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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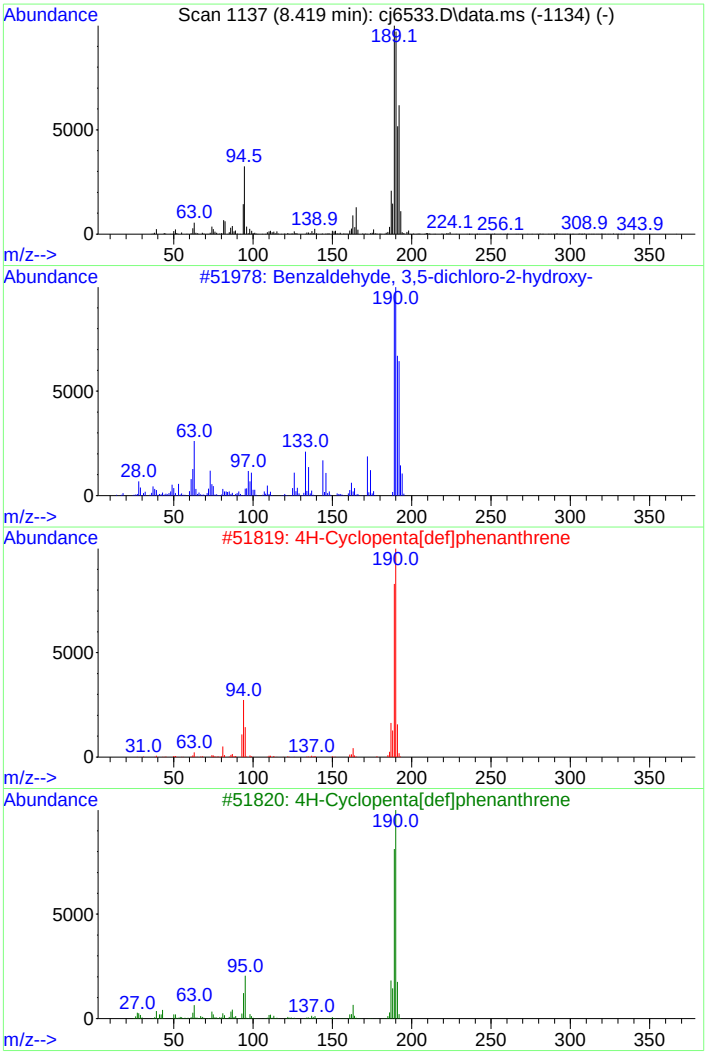
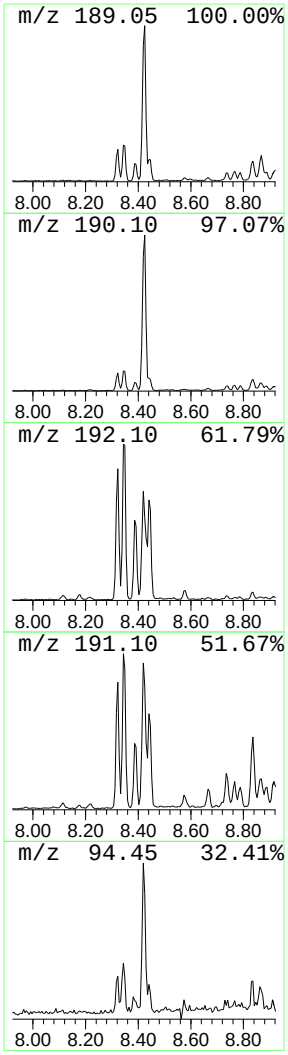
Peak Number 2 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.419	8.49 ppm	710172	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	64
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	49
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	35
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	35





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj297\
Data File : cj6533.D
Acq On : 09 May 2024 10:41 pm
Operator : rocquans
Sample : jd87833-8
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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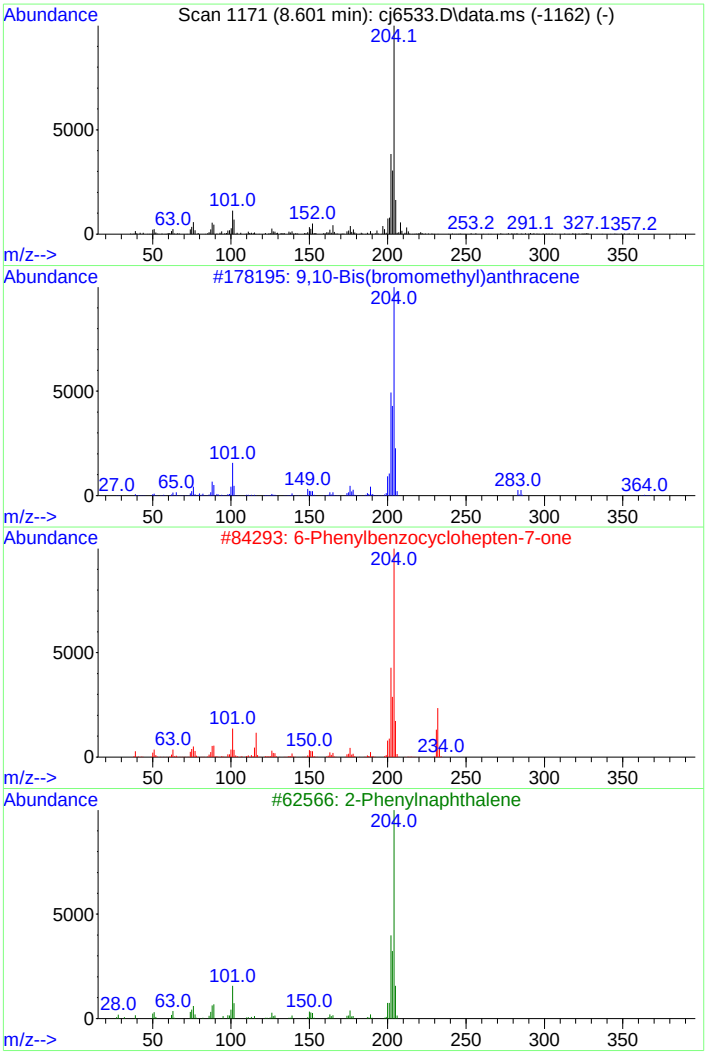
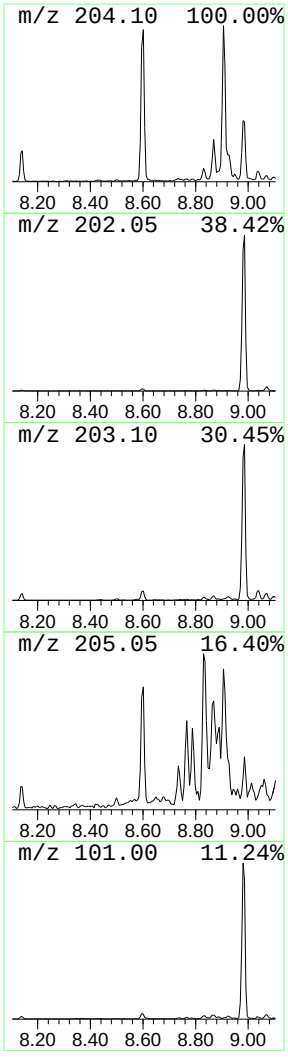
Peak Number 3 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.601	4.22 ppm	353158	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	90
2	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	90
3	2-Phenylnaphthalene	204	C16H12	035465-71-5	86
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	83
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	72





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj297\
Data File : cj6533.D
Acq On : 09 May 2024 10:41 pm
Operator : rocquans
Sample : jd87833-8
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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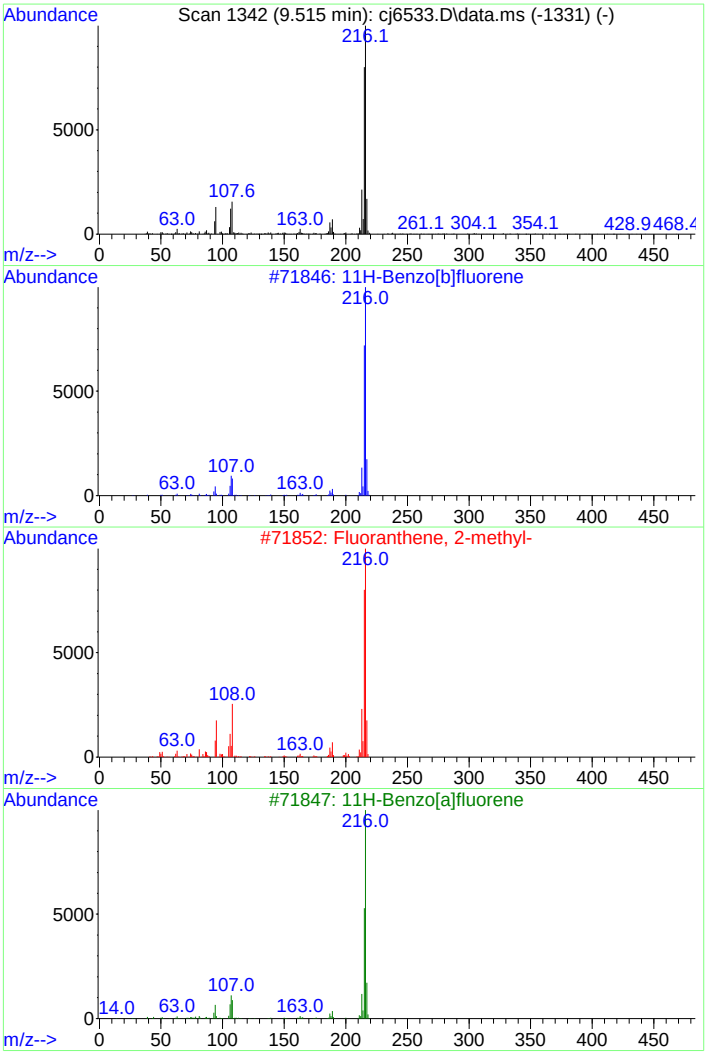
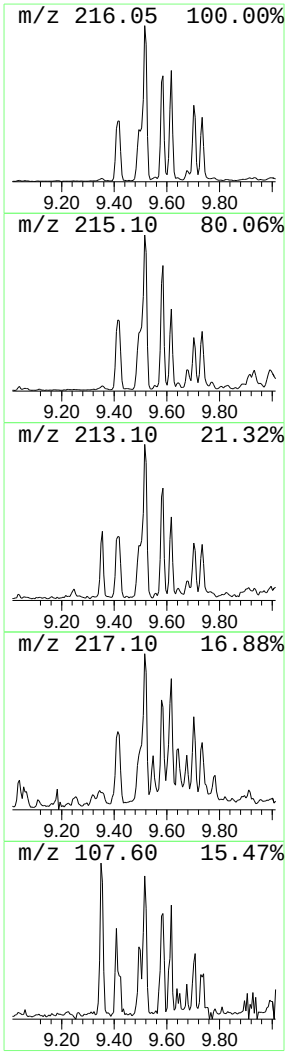
Peak Number 4 Pyrene methyl Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.515	5.85 ppm	760616	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj297\
Data File : cj6533.D
Acq On : 09 May 2024 10:41 pm
Operator : rocquans
Sample : jd87833-8
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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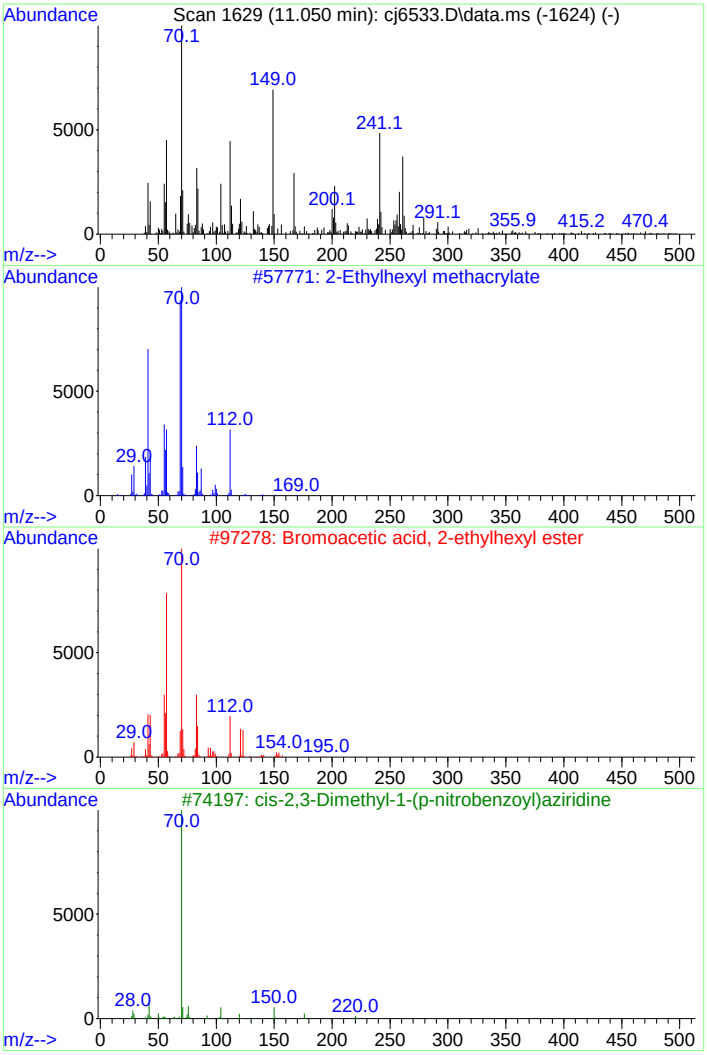
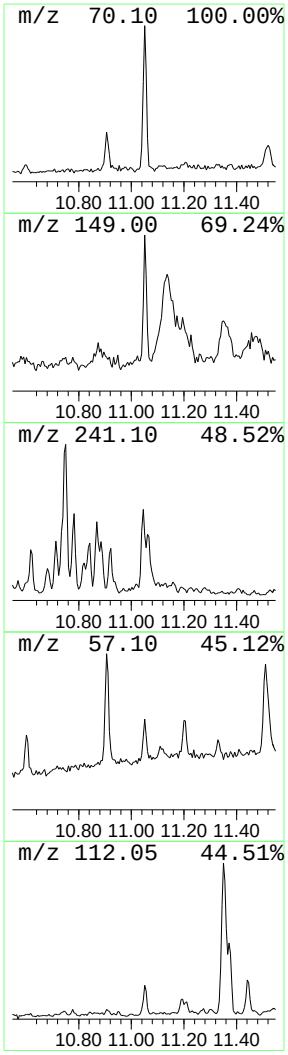
Peak Number 5 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.050	4.35 ppm	353143	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Ethylhexyl methacrylate	198	C12H22O2	000688-84-6	16
2	Bromoacetic acid, 2-ethylhexyl e...	250	C10H19BrO2	068144-73-0	12
3	cis-2,3-Dimethyl-1-(p-nitrobenzo...	220	C11H12N2O3	021383-77-7	10
4	1,2-Benzenedicarboxylic acid, di...	330	C20H26O4	000084-61-7	10
5	Phthalic acid, decyl 2-ethylhexy...	418	C26H42O4	1000309-00-0	10





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj297\
Data File : cj6533.D
Acq On : 09 May 2024 10:41 pm
Operator : rocquans
Sample : jd87833-8
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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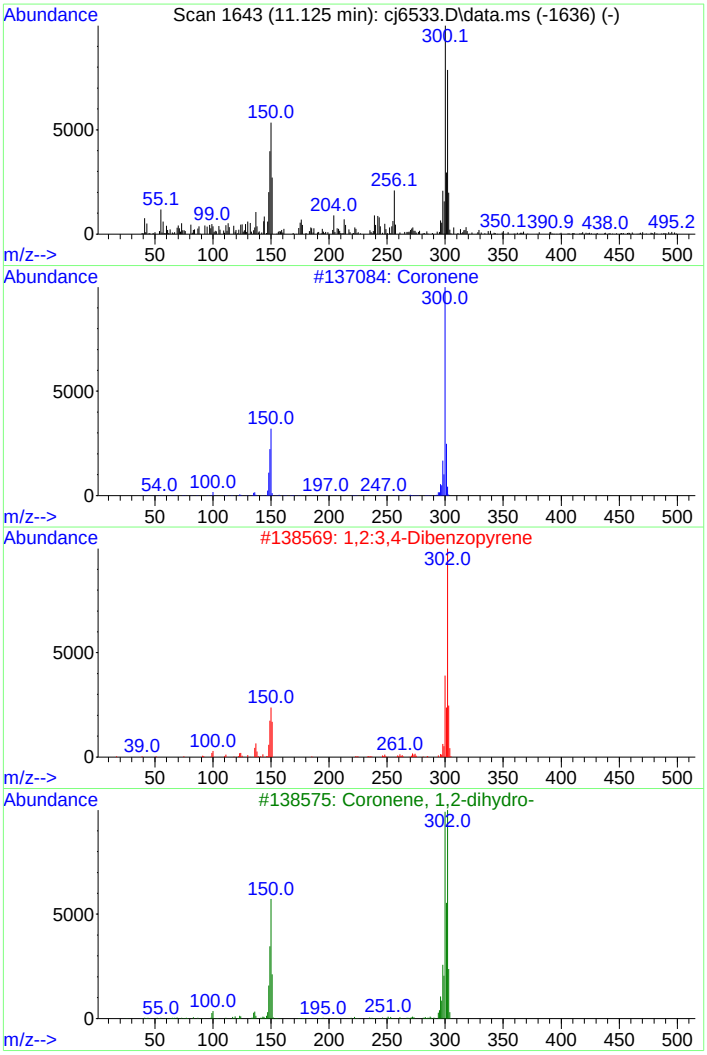
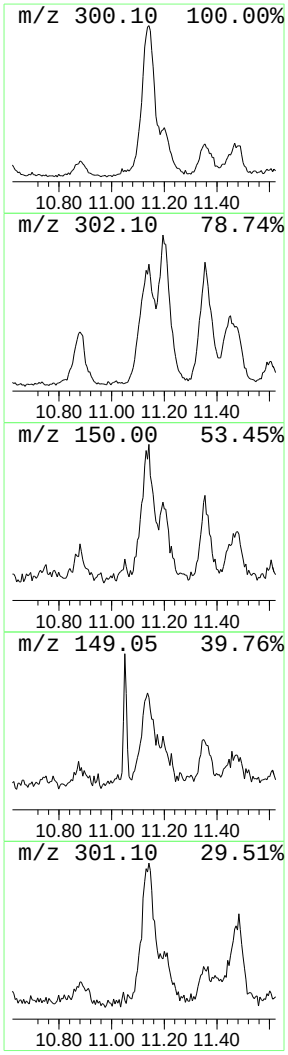
Peak Number 6 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.125	4.91 ppm	398938	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Coronene	300	C24H12	000191-07-1	55
2	1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	49
3	Coronene, 1,2-dihydro-	302	C24H14	107716-56-3	47
4	Coronene	300	C24H12	000191-07-1	43
5	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj297\
Data File : cj6533.D
Acq On : 09 May 2024 10:41 pm
Operator : rocquans
Sample : jd87833-8
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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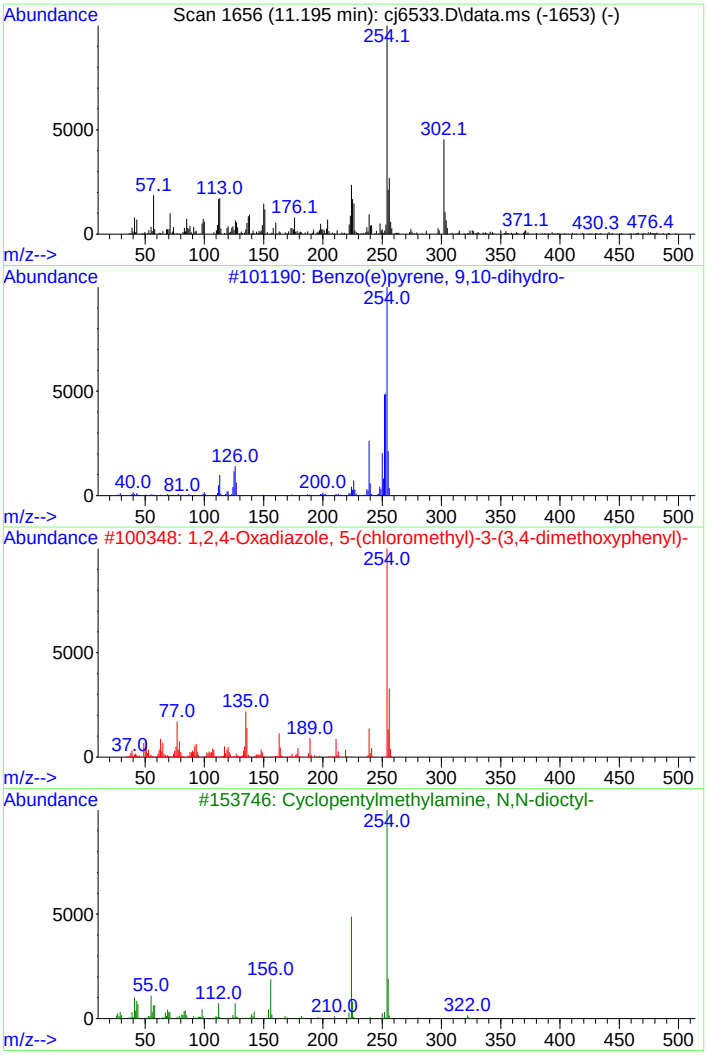
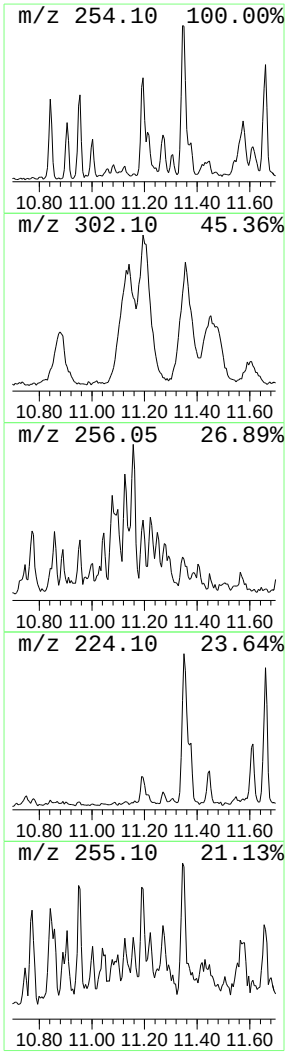
Peak Number 7 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.195	6.02 ppm	488942	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(e)pyrene, 9,10-dihydro-	254	C20H14	066788-01-0	49
2	1,2,4-Oxadiazole, 5-(chloromethy...	254	C11H11ClN2O3	1000338-17-0	43
3	Cyclopentylmethylamine, N,N-dioc...	323	C22H45N	1000310-50-1	43
4	Pyrazole, 4-chloro-3,5-diphenyl-	254	C15H11ClN2	071549-28-5	43
5	1H-Pyrazole, 3-(4-chlorophenyl)-...	254	C15H11ClN2	033064-19-6	43





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj297\
Data File : cj6533.D
Acq On : 09 May 2024 10:41 pm
Operator : rocquans
Sample : jd87833-8
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

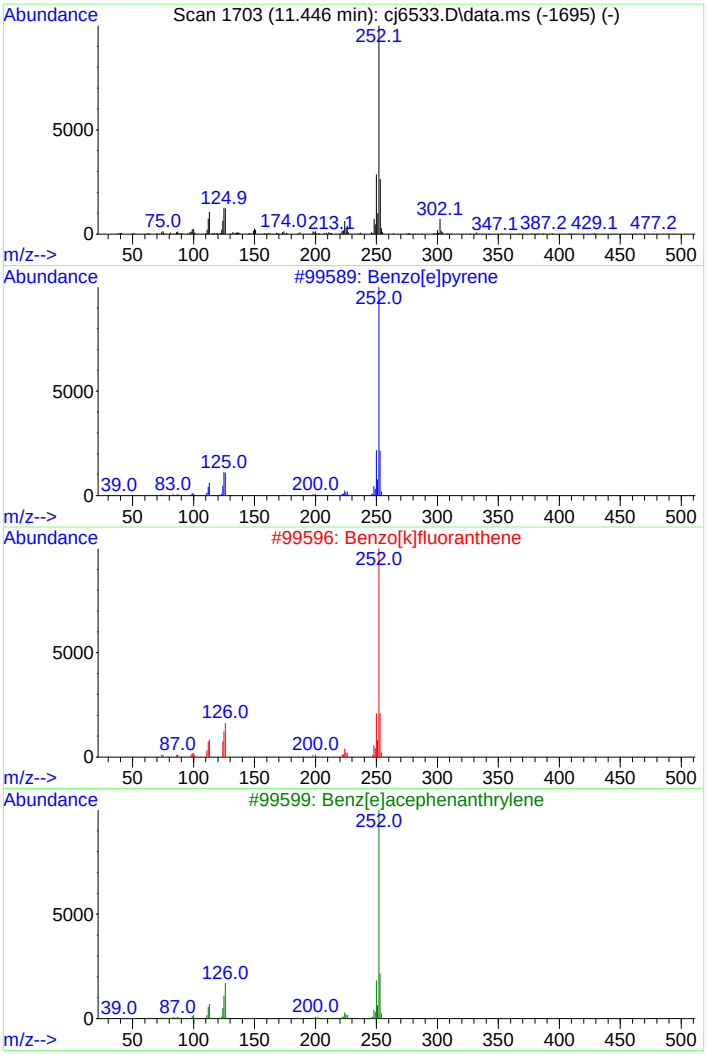
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

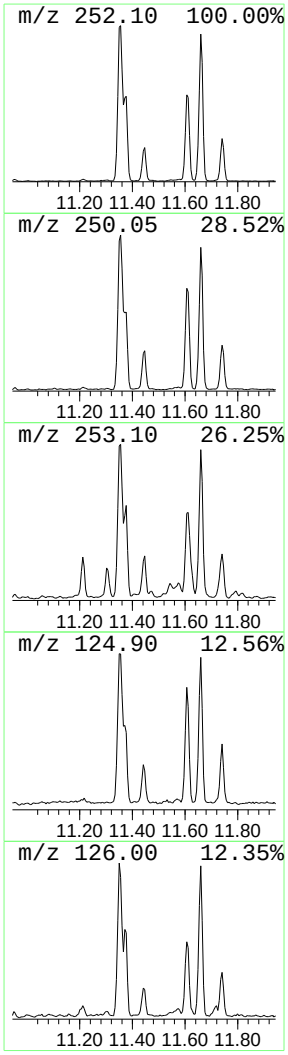
****

Peak Number 8 Unknown PAH substance Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.446	6.65 ppm	540117	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Perylene	252	C20H12	000198-55-0	93
5	Benzo[a]pyrene	252	C20H12	000050-32-8	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj297\
Data File : cj6533.D
Acq On : 09 May 2024 10:41 pm
Operator : rocquans
Sample : jd87833-8
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

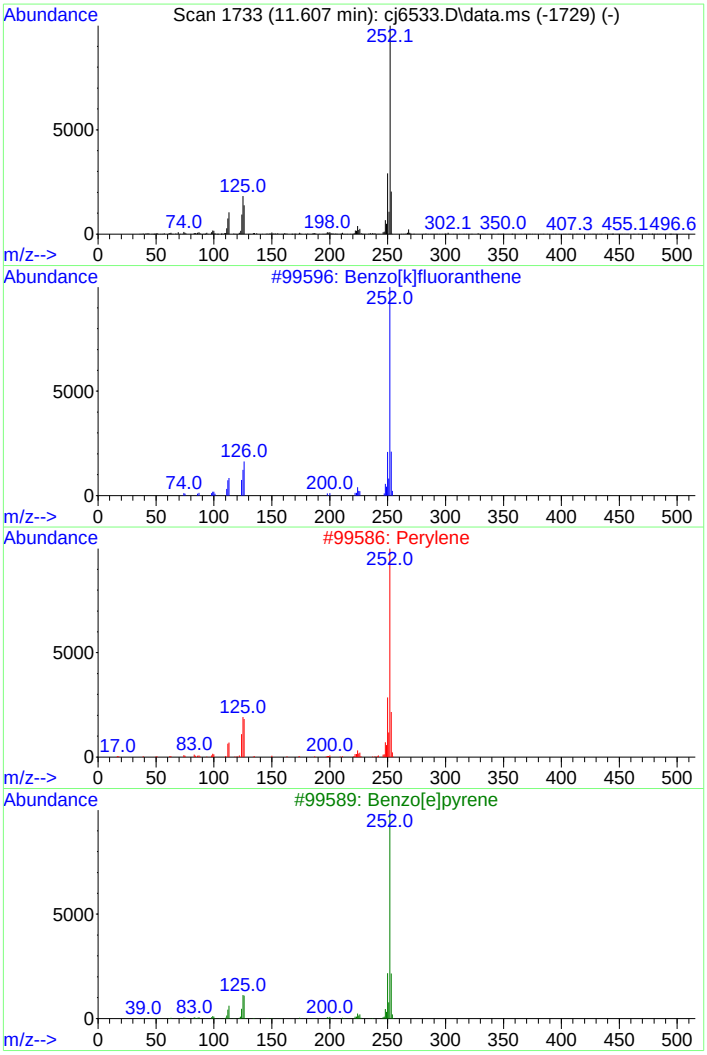
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

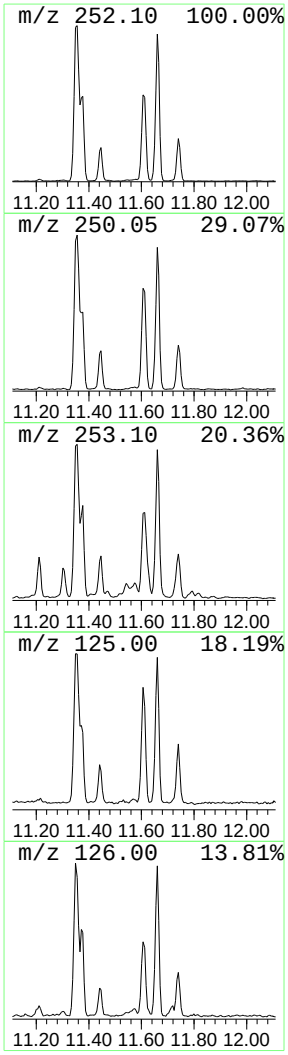
****

Peak Number 9 Unknown PAH substance Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.607	13.11 ppm	1065010	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
2	Perylene	252	C20H12	000198-55-0	98
3	Benzo[e]pyrene	252	C20H12	000192-97-2	98
4	Benzo[e]pyrene	252	C20H12	000192-97-2	98
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj297\
Data File : cj6533.D
Acq On : 09 May 2024 10:41 pm
Operator : rocquans
Sample : jd87833-8
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

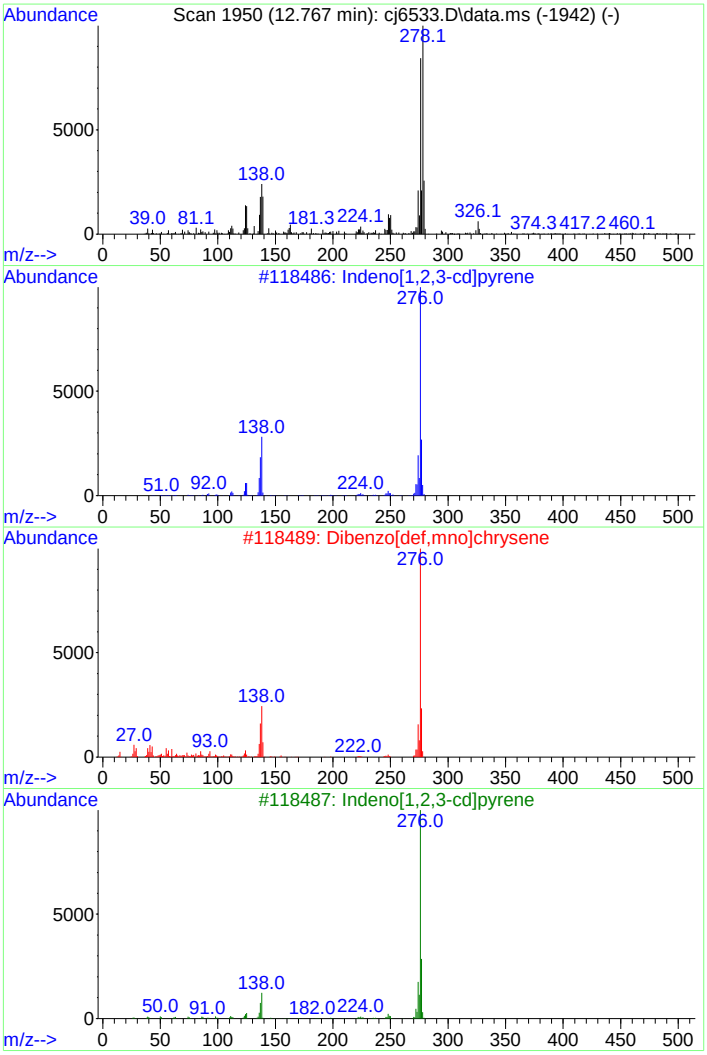
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

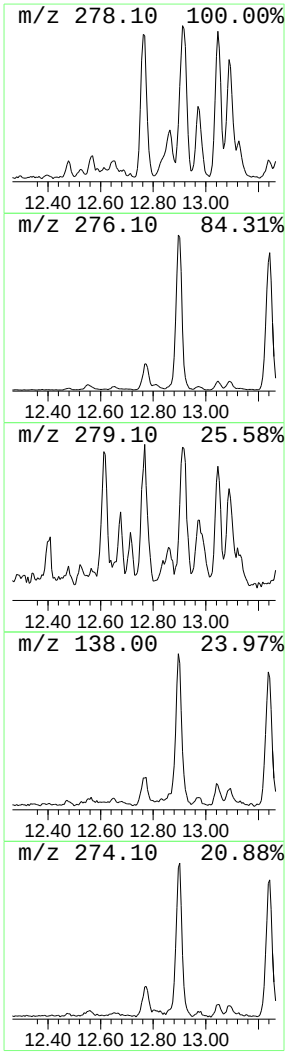
****

Peak Number 10 Unknown PAH substance Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.767	6.35 ppm	515852	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	89
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	60
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	50
4	Benzo[ghi]perylene	276	C22H12	000191-24-2	46
5	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	46





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj297\
Data File : cj6533.D
Acq On : 09 May 2024 10:41 pm
Operator : rocquans
Sample : jd87833-8
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

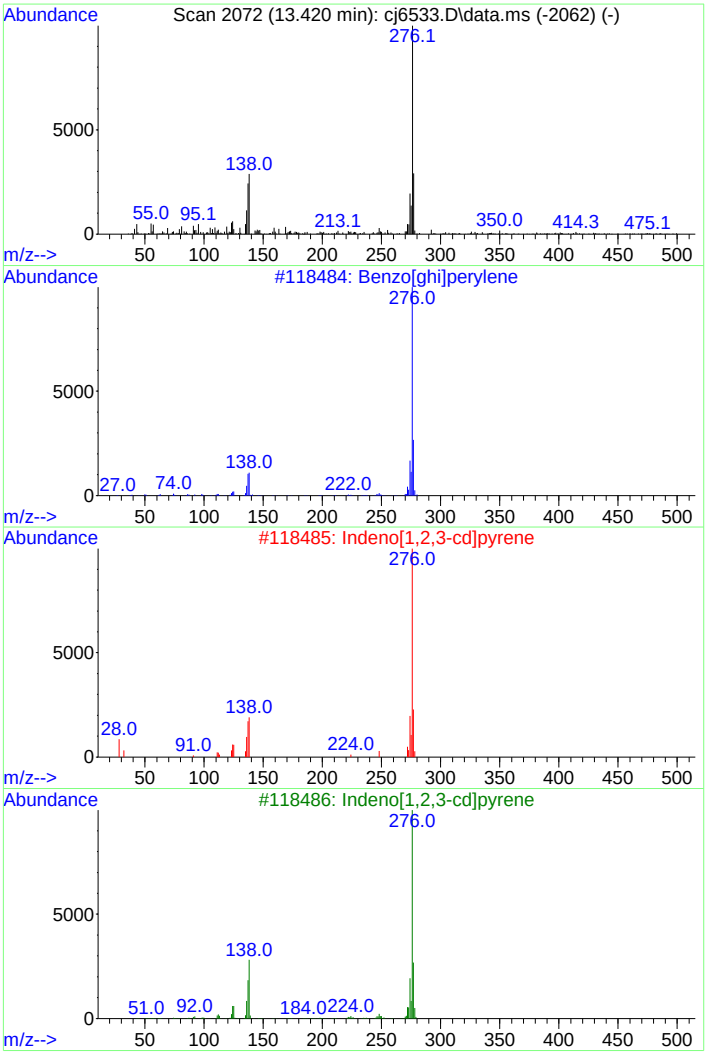
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

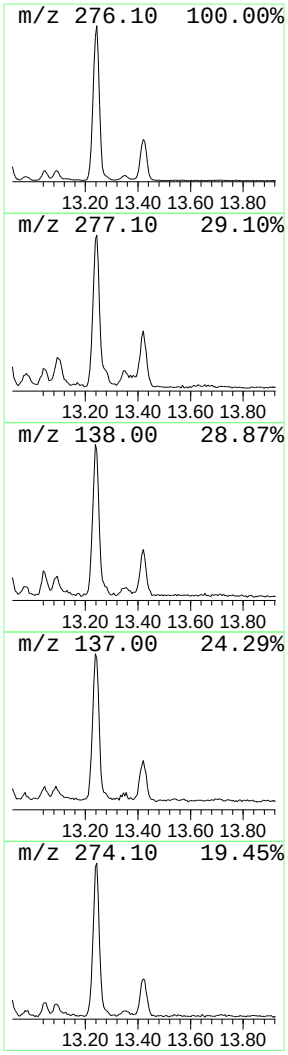
****

Peak Number 11 Unknown PAH substance Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.420	6.00 ppm	487437	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	93
2	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	93
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	93
4	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	91
5	Benzo[ghi]perylene	276	C22H12	000191-24-2	91





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj297\
Data File : cj6533.D
Acq On : 09 May 2024 10:41 pm
Operator : rocquans
Sample : jd87833-8
Misc : op54460,ecj297,30.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.247	7.4	ppm	396750	2	4.664	2140470	40.0
4H-Cyclopenta[d...	8.419	8.5	ppm	710172	8	7.868	3347490	40.0
Unknown	8.601	4.2	ppm	353158	8	7.868	3347490	40.0
Pyrene methyl	9.515	5.8	ppm	760616	9	10.366	5199660	40.0
Unknown	11.050	4.3	ppm	353143	11	11.719	3249660	40.0
Unknown	11.125	4.9	ppm	398938	11	11.719	3249660	40.0
Unknown	11.195	6.0	ppm	488942	11	11.719	3249660	40.0
Unknown PAH sub...	11.446	6.7	ppm	540117	11	11.719	3249660	40.0
Unknown PAH sub...	11.607	13.1	ppm	1065010	11	11.719	3249660	40.0
Unknown PAH sub...	12.767	6.3	ppm	515852	11	11.719	3249660	40.0
Unknown PAH sub...	13.420	6.0	ppm	487437	11	11.719	3249660	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 05/13/24 01:29

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9 Inst : GCMSCJ
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: May 10 20:09:28 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.664	152	330644	40.00	ppm	0.00
24) Naphthalene-d8	5.471	136	1153413	40.00	ppm	0.00
46) Acenaphthene-d10	6.659	164	653496	40.00	ppm	0.00
69) Phenanthrene-d10	7.873	188	1145424	40.00	ppm	0.00
84) Chrysene-d12	10.365	240	810050	40.00	ppm	0.00
93) Perylene-d12	11.719	264	823369	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.664	152	330644	40.00	ppm	0.00
105) Phenanthrene-d10a	7.873	188	1145424	40.00	ppm	0.00
107) Naphthalene-d8a	5.471	136	1153413	40.00	ppm	0.00
109) Phenanthrene-d10b	7.873	188	1145424	40.00	ppm	0.00
112) Chrysene-d12a	10.365	240	810050	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.813	112	334169	35.16	ppm	0.02
Spiked Amount 50.000			Recovery =	70.32%		
8) Phenol-d5	4.428	99	460243	37.55	ppm	0.01
Spiked Amount 50.000			Recovery =	75.10%		
25) Nitrobenzene-d5	5.011	82	445712	37.74	ppm	0.00
Spiked Amount 50.000			Recovery =	75.48%		
51) 2-Fluorobiphenyl	6.167	172	817877	39.77	ppm	0.00
Spiked Amount 50.000			Recovery =	79.54%		
74) 2,4,6-Tribromophenol	7.274	330	118048	47.01	ppm	0.00
Spiked Amount 50.000			Recovery =	94.02%		
87) Terphenyl-d14	9.354	244	832881	41.61	ppm	0.00
Spiked Amount 50.000			Recovery =	83.22%		
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
18) Acetophenone	4.915	105	8733	0.5746	ppm #	63
21) 3&4-Methylphenol	4.910	108	46147	4.8913	ppm	93
38) Naphthalene	5.482	128	16556	0.5992	ppm	98
44) 2-Methylnaphthalene	5.926	141	6219	0.3796	ppm	98
45) 1-Methylnaphthalene	5.990	141	5794	0.3699	ppm	93
53) Biphenyl	6.236	154	5523	0.2460	ppm	96
56) Acenaphthylene	6.557	152	64079	2.5281	ppm	97
59) Acenaphthene	6.680	153	19634	1.0893	ppm	94
62) Dibenzofuran	6.814	168	15072	0.6026	ppm	98
66) Fluorene	7.081	166	26970m	1.3649	ppm	
78) Phenanthrene	7.894	178	318218	11.4956	ppm	98
79) Anthracene	7.937	178	110386	3.9825	ppm	97
80) Carbazole	8.076	167	25843	1.0006	ppm	97
81) Di-n-butylphthalate	8.397	149	8602	0.2696	ppm	94
82) Fluoranthene	8.985	202	665490	22.2063	ppm	99
86) Pyrene	9.199	202	617666	22.4210	ppm	99
89) Benzo[a]anthracene	10.360	228	270559	10.3881	ppm	96
91) Chrysene	10.392	228	272227	11.3287	ppm	97
92) bis(2-Ethylhexyl)phtha...	10.408	149	20006	1.0989	ppm	94
95) Benzo[b]fluoranthene	11.355	252	365416m	14.6914	ppm	
96) Benzo[k]fluoranthene	11.376	252	85960m	3.8407	ppm	
97) Benzo[a]pyrene	11.665	252	247115	12.0015	ppm	99
98) Indeno[1,2,3-cd]pyrene	12.906	276	163719	6.5772	ppm	99
100) Dibenz[a,h]anthracene	12.922	278	39744	1.9982	ppm	93
102) Benzo[g,h,i]perylene	13.248	276	150113	7.7603	ppm	99
104) Benzaldehyde	4.385	105	5498	0.5809	ppm	96

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9 Inst : GCMSCJ
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: May 10 20:09:28 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

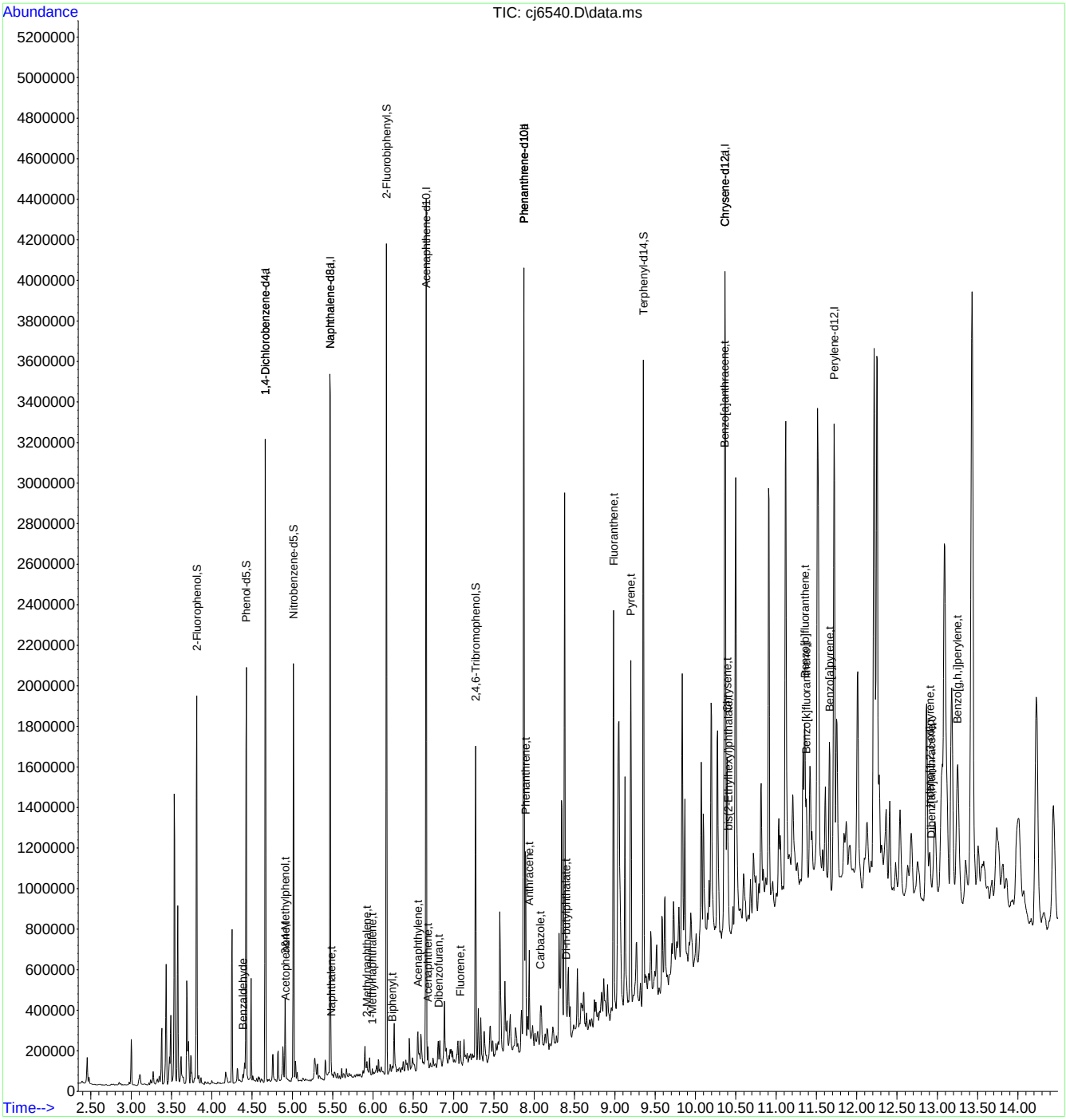
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

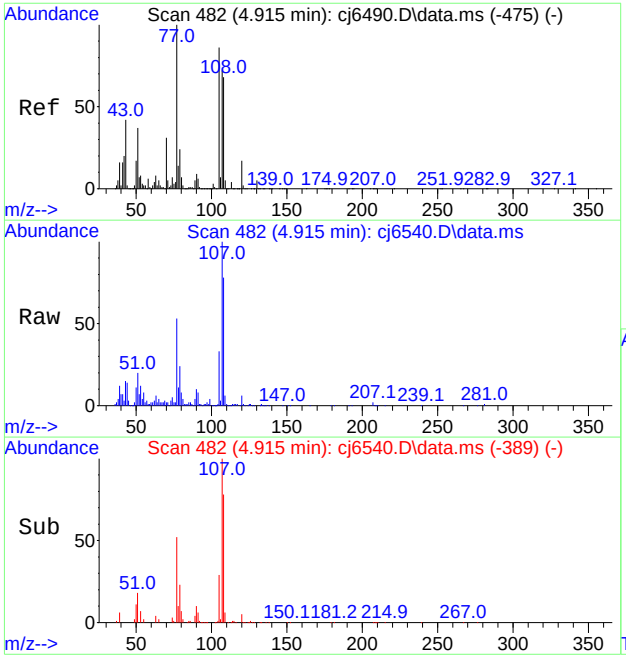
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9 Inst : GCMSCJ
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: May 10 20:09:28 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

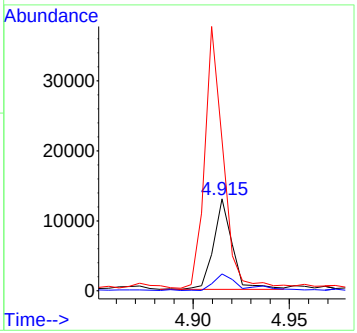


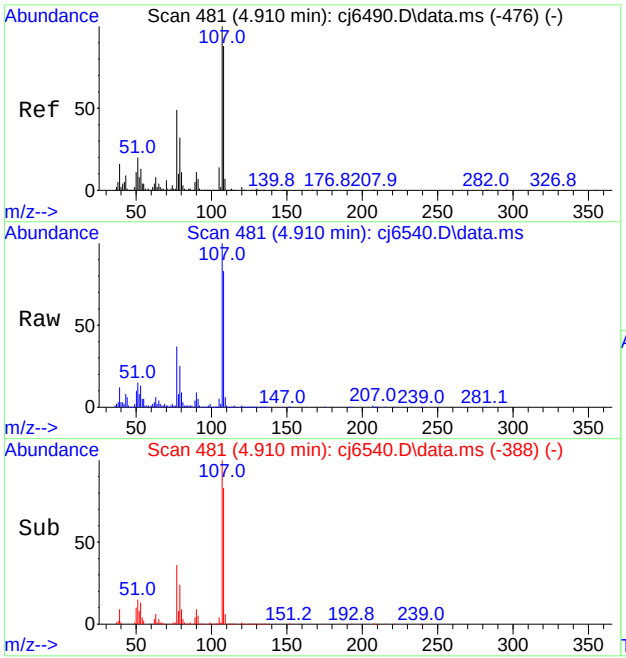


#18
Acetophenone
Concen: 0.5746 ppm
RT: 4.915 min Scan# 482
Delta R.T. -0.000 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:105 Resp: 8733

Ion	Ratio	Lower	Upper
105	100		
120	17.5	0.0	49.8
77	161.9	86.0	146.0#

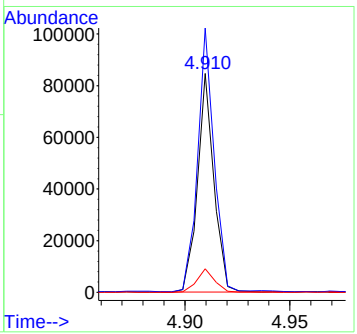


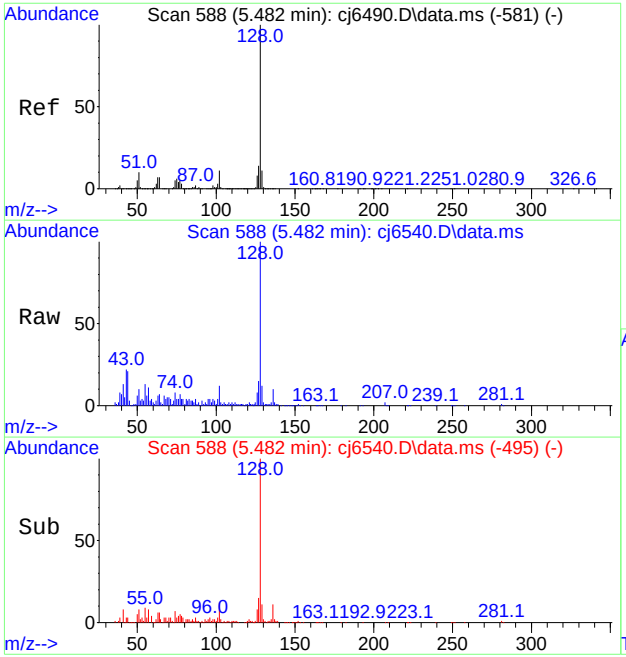


#21
3&4-Methylphenol
Concen: 4.8913 ppm
RT: 4.910 min Scan# 481
Delta R.T. -0.000 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:108 Resp: 46147

Ion	Ratio	Lower	Upper
108	100		
107	120.6	83.2	143.2
90	10.7	0.0	42.4

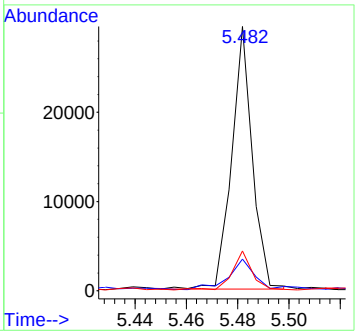


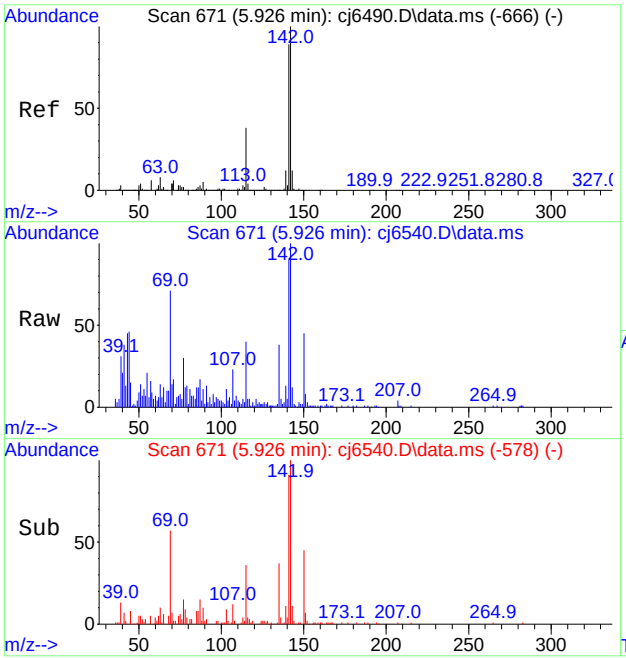


#38
Naphthalene
Concen: 0.5992 ppm
RT: 5.482 min Scan# 588
Delta R.T. -0.000 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:128 Resp: 16556

Ion	Ratio	Lower	Upper
128	100		
129	10.9	0.0	41.4
127	14.6	0.0	43.3

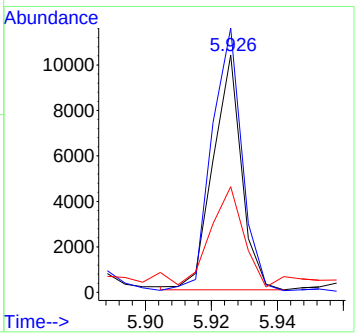


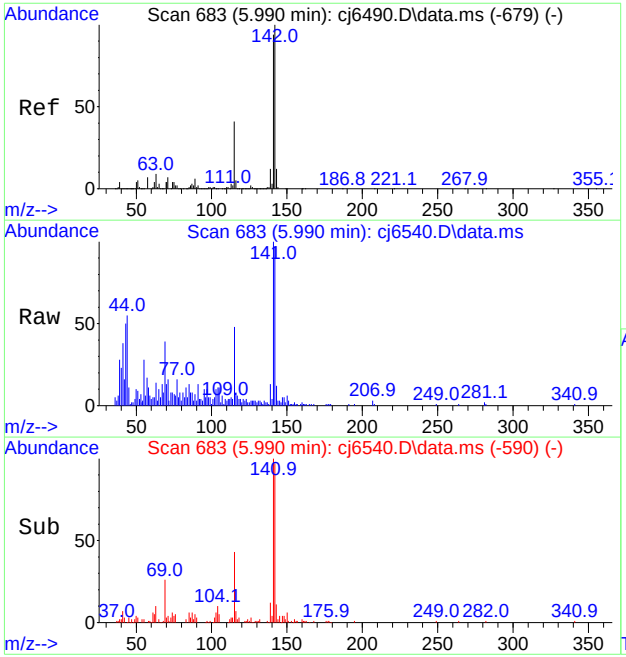


#44
2-Methylnaphthalene
Concen: 0.3796 ppm
RT: 5.926 min Scan# 671
Delta R.T. -0.000 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:141 Resp: 6219

Ion	Ratio	Lower	Upper
141	100		
142	113.1	82.7	142.7
115	37.8	12.4	72.4

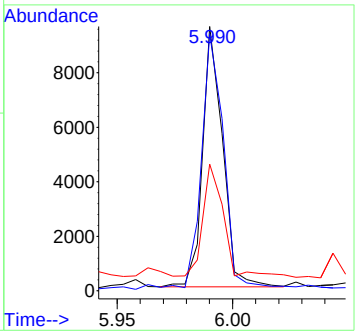


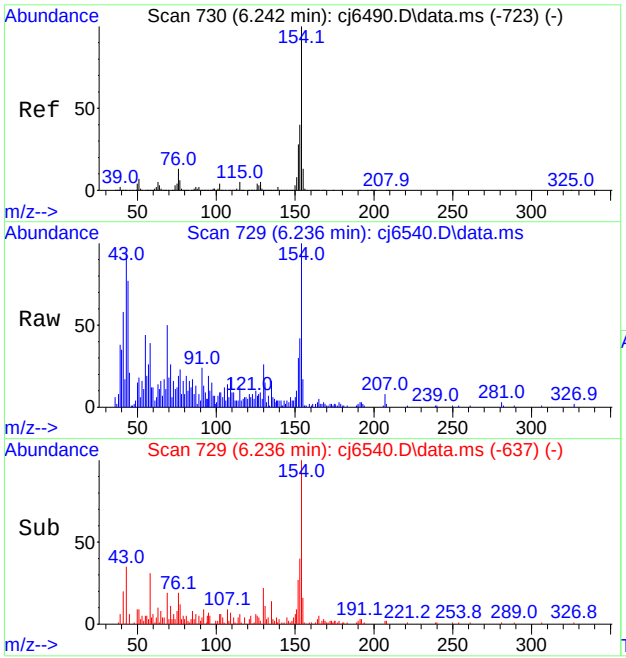


#45
1-Methylnaphthalene
Concen: 0.3699 ppm
RT: 5.990 min Scan# 683
Delta R.T. 0.000 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:141 Resp: 5794

Ion	Ratio	Lower	Upper
141	100		
142	98.1	77.0	137.0
115	42.2	14.2	74.2

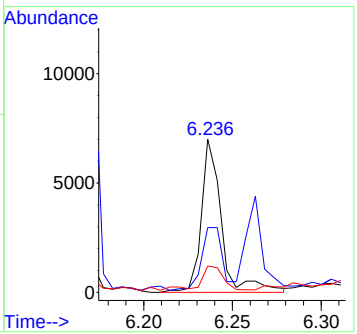


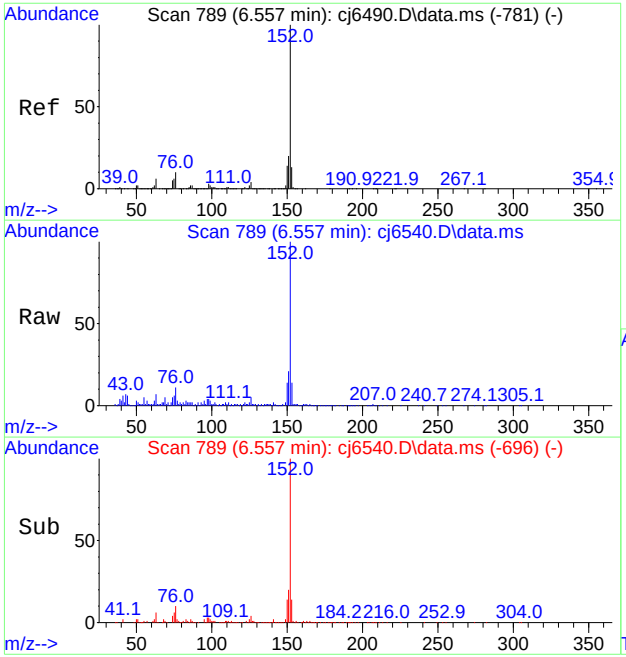


#53
Biphenyl
Concen: 0.2460 ppm
RT: 6.236 min Scan# 729
Delta R.T. -0.006 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:154 Resp: 5523

Ion	Ratio	Lower	Upper
154	100		
153	39.2	10.5	70.5
155	16.7	0.0	42.8

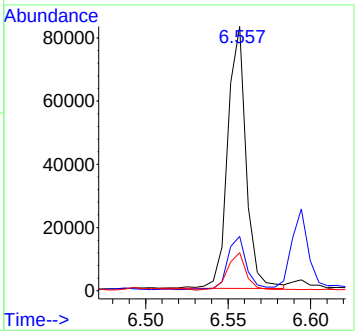


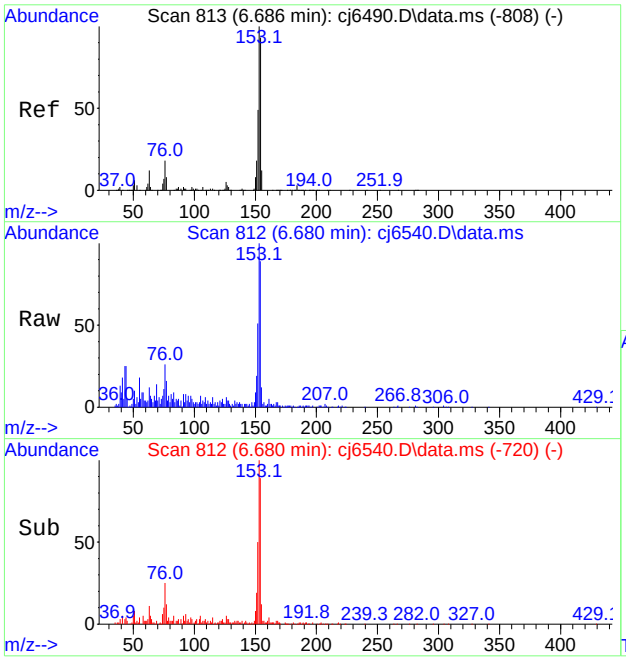


#56
Acenaphthylene
Concen: 2.5281 ppm
RT: 6.557 min Scan# 789
Delta R.T. 0.000 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:152 Resp: 64079

Ion	Ratio	Lower	Upper
152	100		
151	18.7	0.0	50.3
153	14.0	0.0	43.4

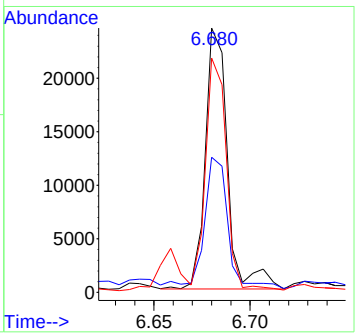


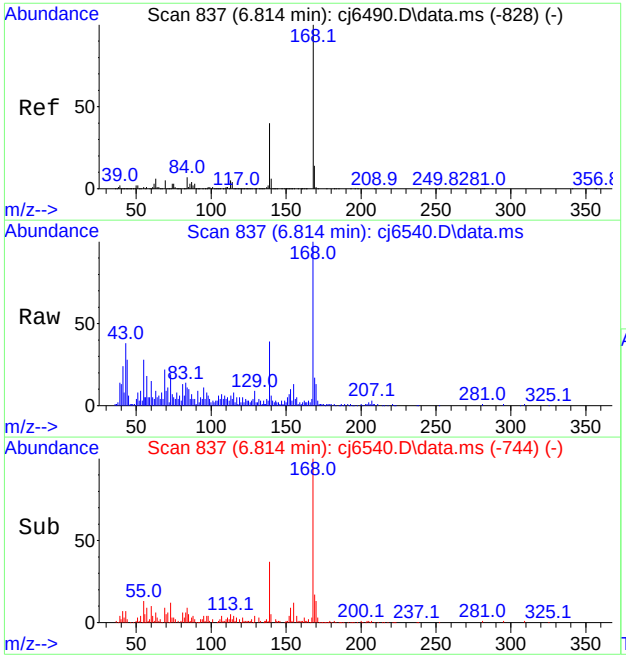


#59
Acenaphthene
Concen: 1.0893 ppm
RT: 6.680 min Scan# 812
Delta R.T. -0.006 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:153 Resp: 19634

Ion	Ratio	Lower	Upper
153	100		
152	49.8	18.8	78.8
154	84.6	62.9	122.9

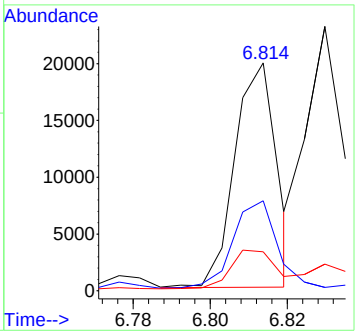


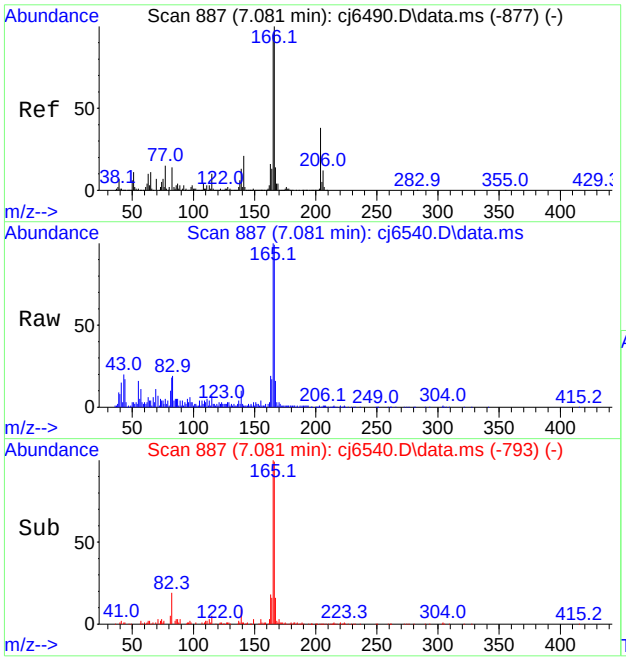


#62
Dibenzofuran
Concen: 0.6026 ppm
RT: 6.814 min Scan# 837
Delta R.T. -0.000 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:168 Resp: 15072

Ion	Ratio	Lower	Upper
168	100		
139	40.4	10.0	70.0
169	16.4	0.0	43.7

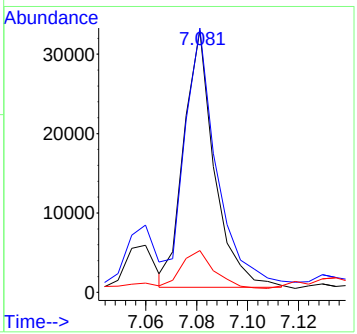


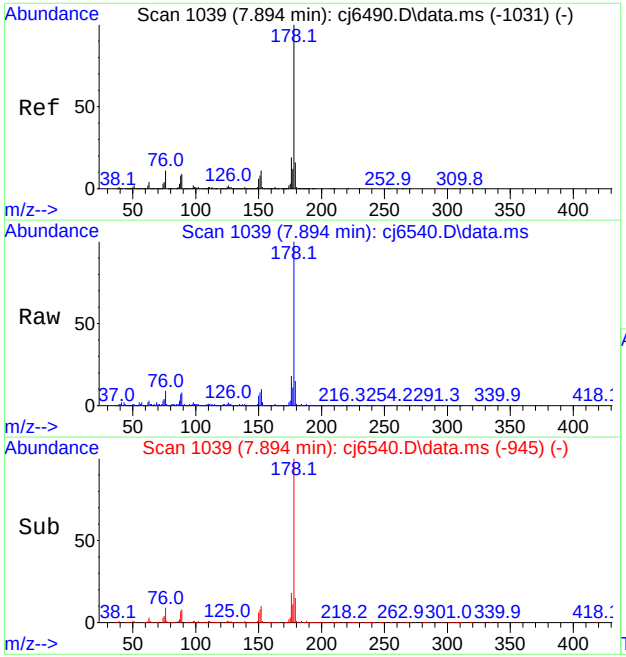


#66
Fluorene
Concen: 1.3649 ppm m
RT: 7.081 min Scan# 887
Delta R.T. 0.000 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:166 Resp: 26970

Ion	Ratio	Lower	Upper
166	100		
165	101.0	65.4	125.4
167	16.0	0.0	43.8

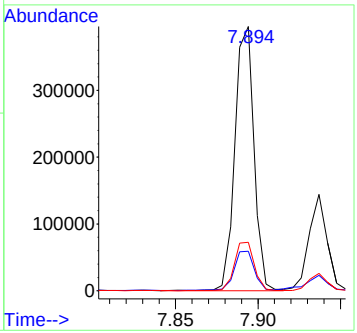


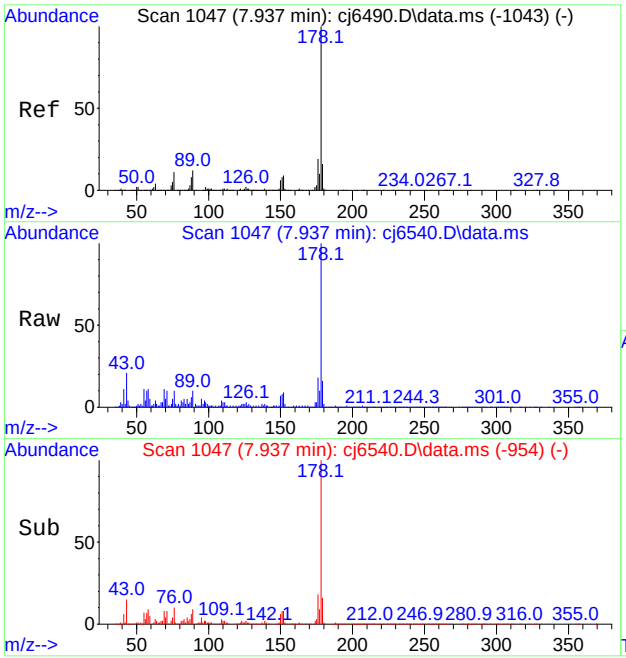


#78
Phenanthrene
Concen: 11.4956 ppm
RT: 7.894 min Scan# 1039
Delta R.T. 0.000 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:178 Resp: 318218

Ion	Ratio	Lower	Upper
178	100		
179	14.6	0.0	45.5
176	18.3	0.0	49.2

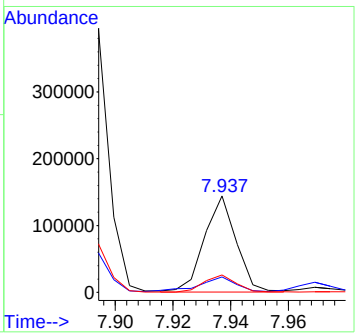


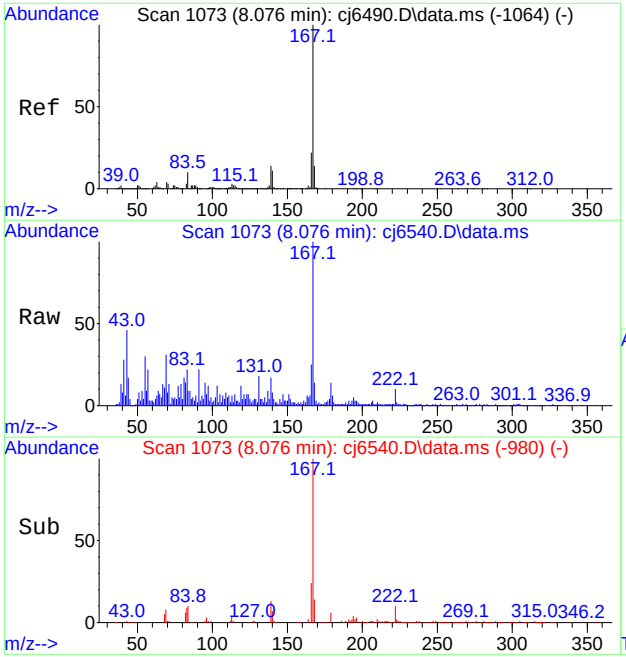


#79
Anthracene
Concen: 3.9825 ppm
RT: 7.937 min Scan# 1047
Delta R.T. -0.000 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:178 Resp: 110386

Ion	Ratio	Lower	Upper
178	100		
179	14.1	0.0	46.1
176	18.0	0.0	48.7

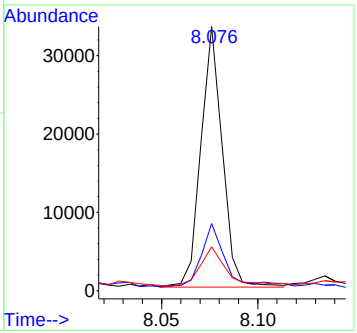


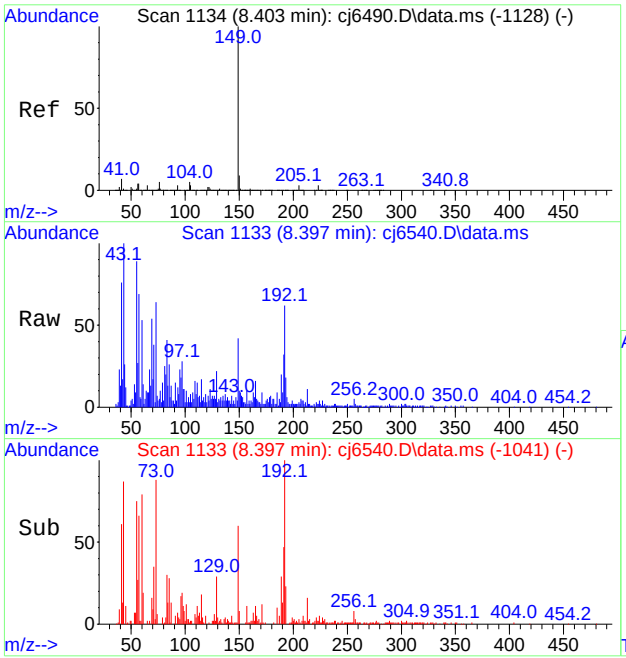


#80
Carbazole
Concen: 1.0006 ppm
RT: 8.076 min Scan# 1073
Delta R.T. 0.000 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:167 Resp: 25843

Ion	Ratio	Lower	Upper
167	100		
166	23.6	0.0	51.7
139	14.4	0.0	43.8

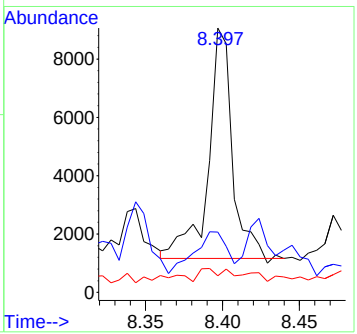


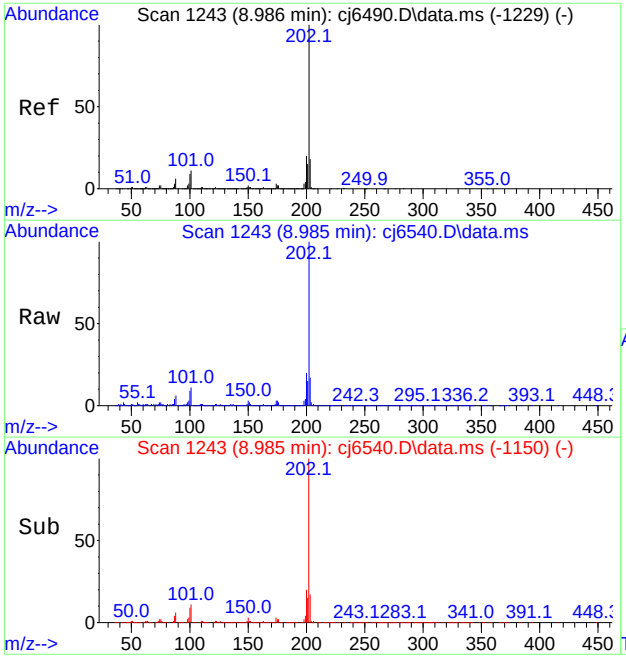


#81
Di-n-butylphthalate
Concen: 0.2696 ppm
RT: 8.397 min Scan# 1133
Delta R.T. -0.006 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:149 Resp: 8602

Ion	Ratio	Lower	Upper
149	100		
150	9.9	0.0	39.3
104	0.2	0.0	35.2

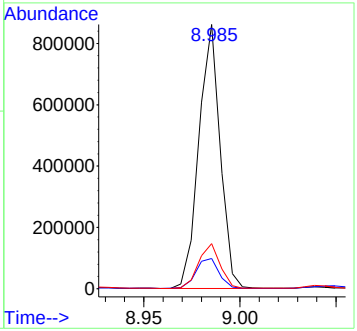


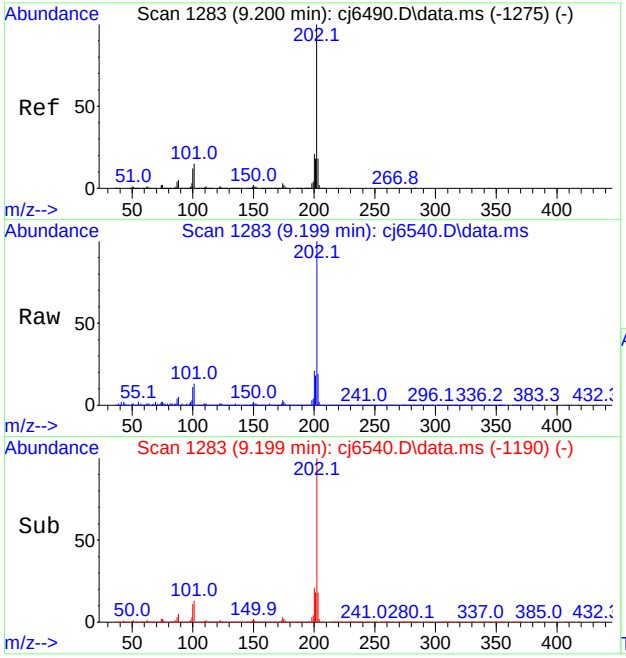


#82
Fluoranthene
Concen: 22.2063 ppm
RT: 8.985 min Scan# 1243
Delta R.T. -0.001 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:202 Resp: 665490

Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	41.4
203	16.9	0.0	47.6

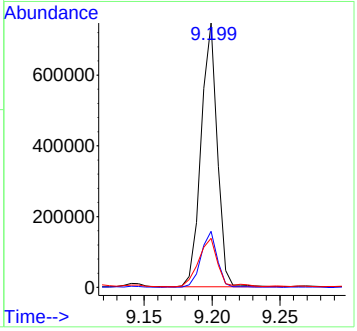


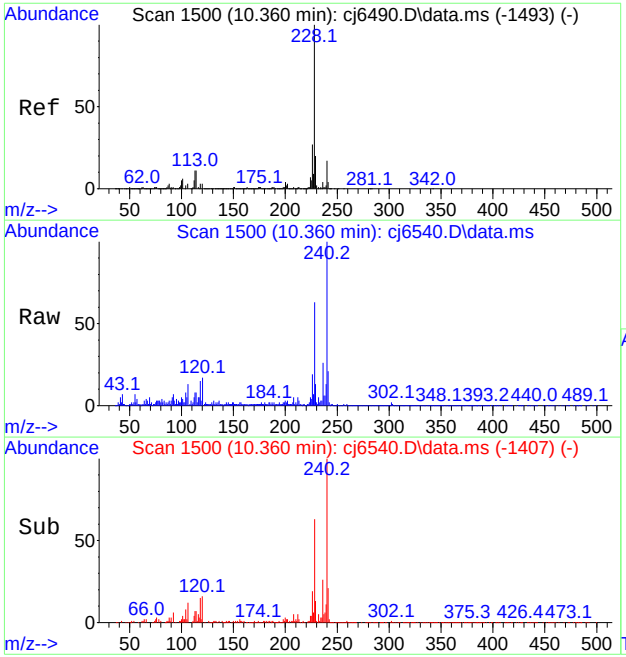


#86
Pyrene
Concen: 22.4210 ppm
RT: 9.199 min Scan# 1283
Delta R.T. -0.001 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:202 Resp: 617666

Ion	Ratio	Lower	Upper
202	100		
200	21.2	0.0	51.4
203	18.2	0.0	47.8

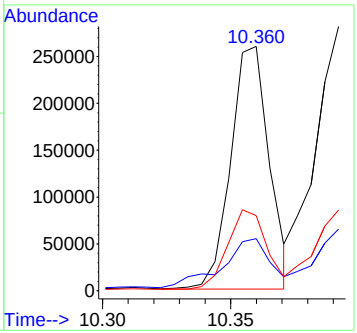


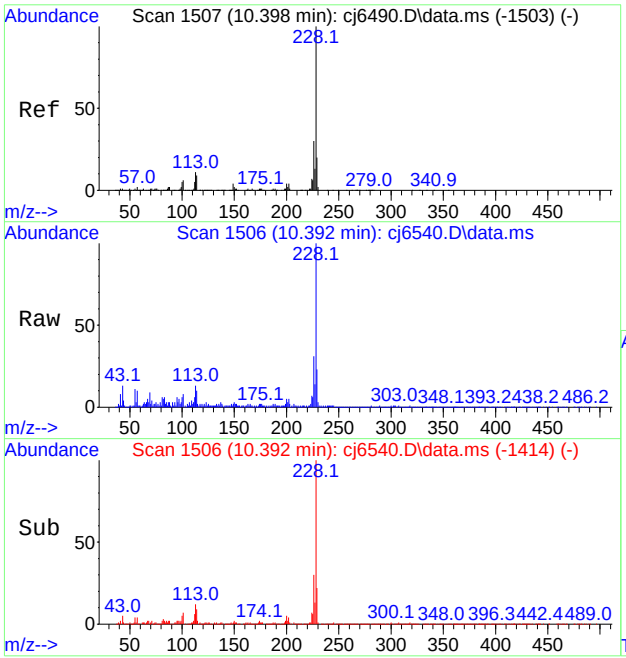


#89
Benzo[a]anthracene
Concen: 10.3881 ppm
RT: 10.360 min Scan# 1500
Delta R.T. -0.000 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:228 Resp: 270559

Ion	Ratio	Lower	Upper
228	100		
229	19.8	0.0	49.8
226	30.7	0.0	57.1

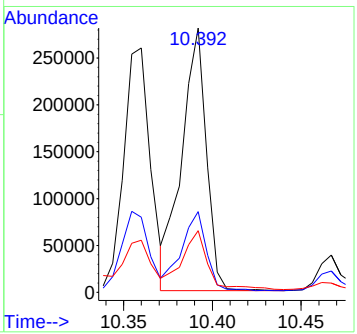


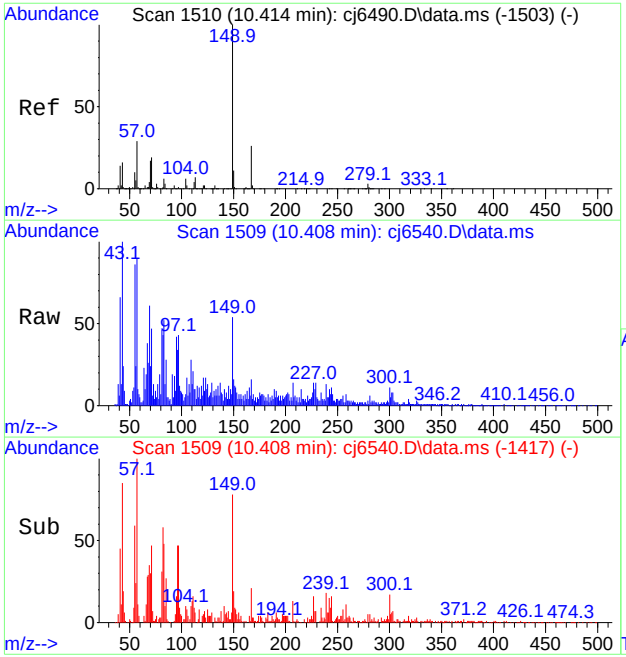


#91
Chrysene
Concen: 11.3287 ppm
RT: 10.392 min Scan# 1506
Delta R.T. -0.006 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:228 Resp: 272227

Ion	Ratio	Lower	Upper
228	100		
226	30.3	0.0	59.9
229	22.2	0.0	49.8

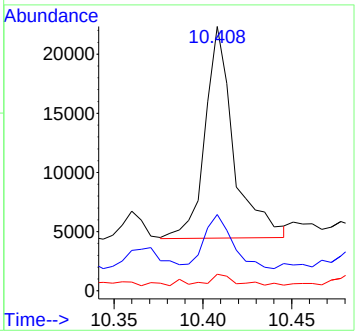


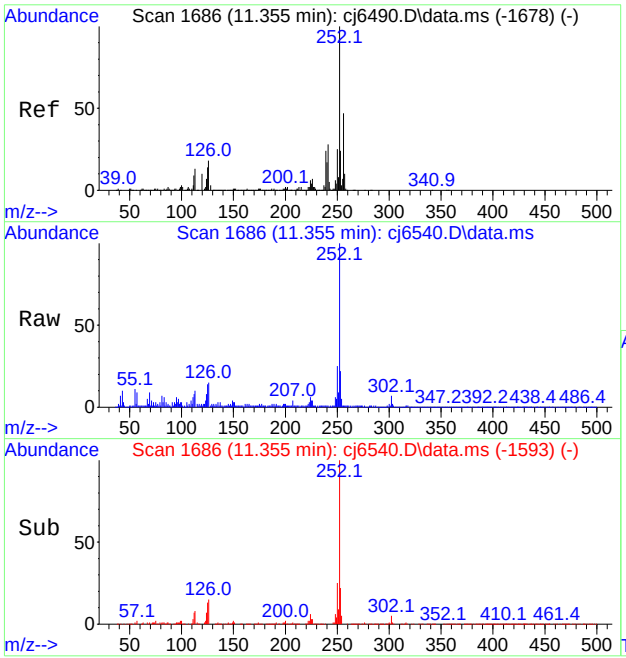


#92
bis(2-Ethylhexyl)phthalate
Concen: 1.0989 ppm
RT: 10.408 min Scan# 1509
Delta R.T. -0.006 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:149 Resp: 20006

Ion	Ratio	Lower	Upper
149	100		
167	23.2	0.0	56.1
279	4.8	0.0	33.2

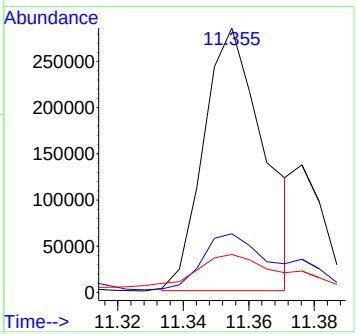


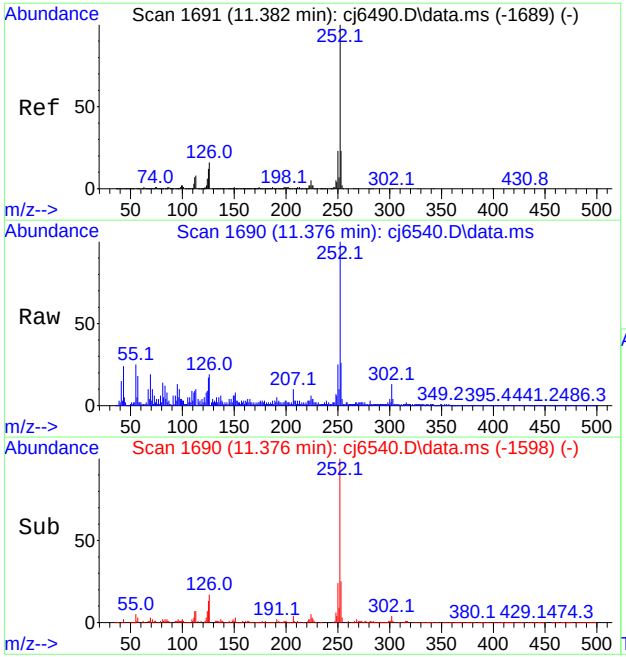


#95
Benzo[b]fluoranthene
Concen: 14.6914 ppm m
RT: 11.355 min Scan# 1686
Delta R.T. -0.000 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:252 Resp: 365416

Ion	Ratio	Lower	Upper
252	100		
253	22.2	0.0	54.7
125	14.3	0.0	44.2

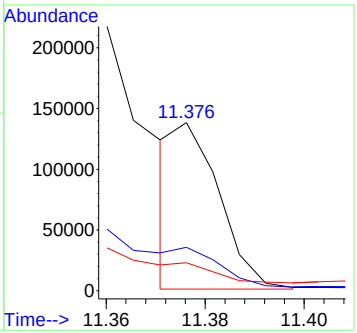


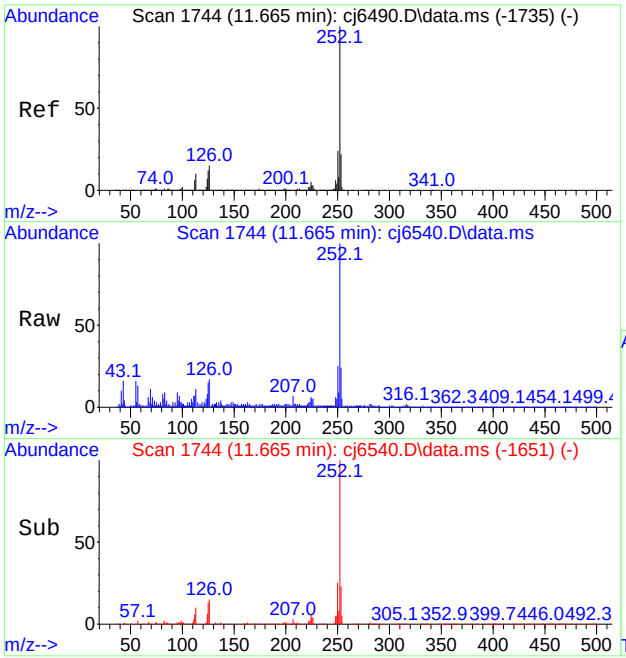


#96
Benzo[k]fluoranthene
Concen: 3.8407 ppm m
RT: 11.376 min Scan# 1690
Delta R.T. -0.006 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:252 Resp: 85960

Ion	Ratio	Lower	Upper
252	100		
253	25.9	0.0	52.6
125	16.8	0.0	42.4

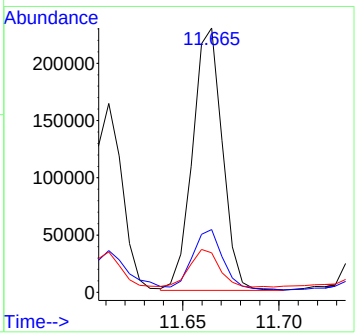


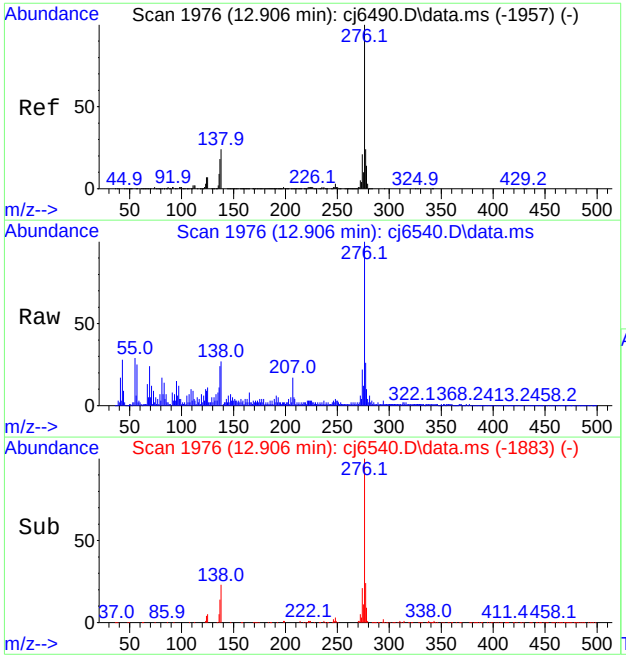


#97
Benzo[a]pyrene
Concen: 12.0015 ppm
RT: 11.665 min Scan# 1744
Delta R.T. 0.000 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:252 Resp: 247115

Ion	Ratio	Lower	Upper
252	100		
253	22.4	0.0	51.9
125	12.8	0.0	42.1

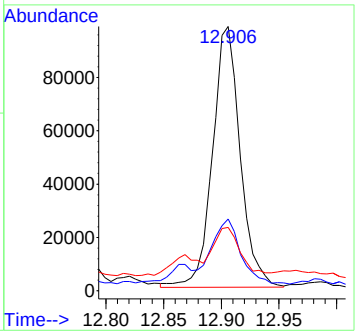


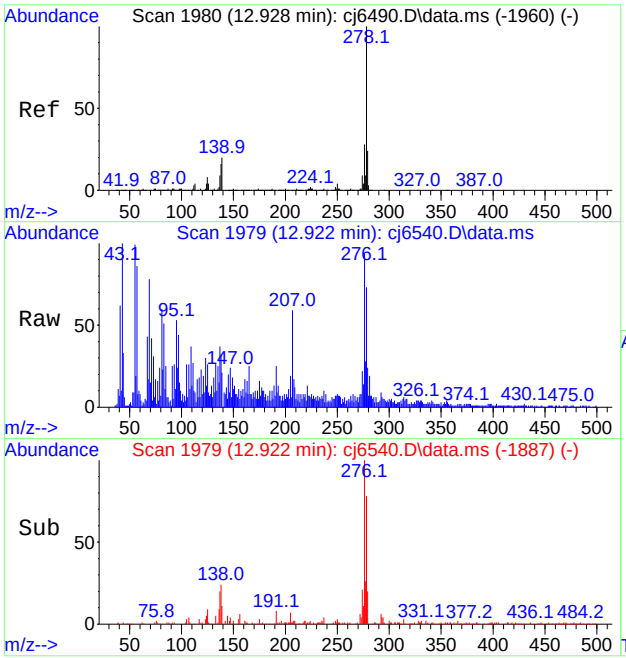


#98
Indeno[1,2,3-cd]pyrene
Concen: 6.5772 ppm
RT: 12.906 min Scan# 1976
Delta R.T. -0.000 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:276 Resp: 163719

Ion	Ratio	Lower	Upper
276	100		
138	24.3	0.0	54.2
137	17.1	0.0	47.9

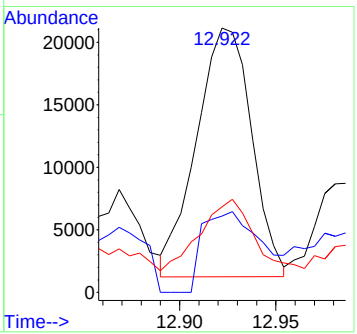


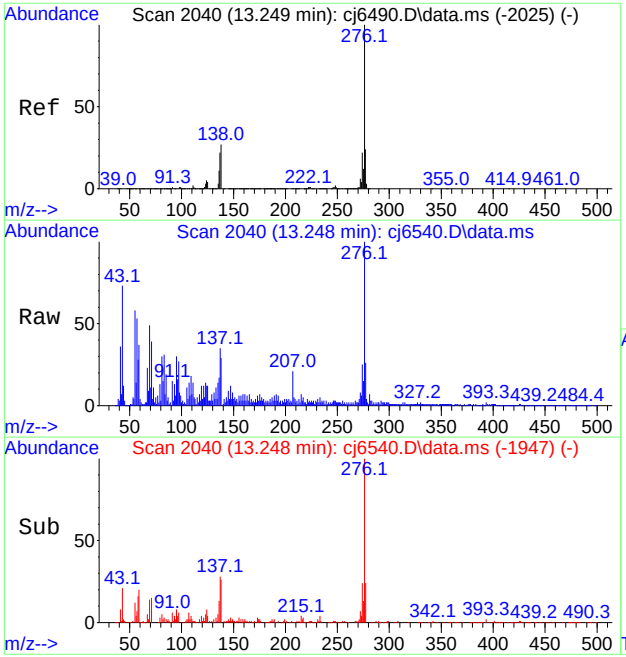


#100
Dibenz[a,h]anthracene
Concen: 1.9982 ppm
RT: 12.922 min Scan# 1979
Delta R.T. -0.006 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:278 Resp: 39744

Ion	Ratio	Lower	Upper
278	100		
139	24.7	0.0	49.8
279	25.7	0.0	54.1

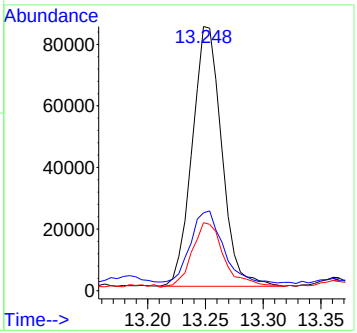


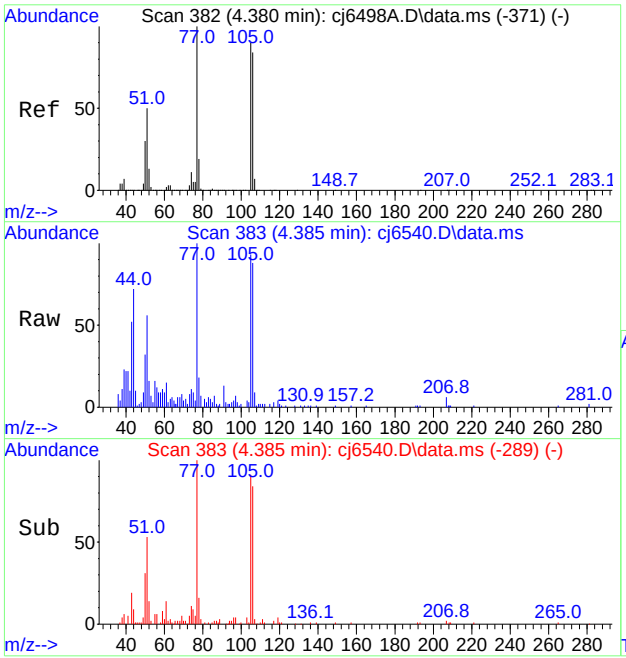


#102
Benzo[g,h,i]perylene
Concen: 7.7603 ppm
RT: 13.248 min Scan# 2040
Delta R.T. -0.001 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:276 Resp: 150113

Ion	Ratio	Lower	Upper
276	100		
138	26.7	0.0	56.7
277	24.8	0.0	54.1

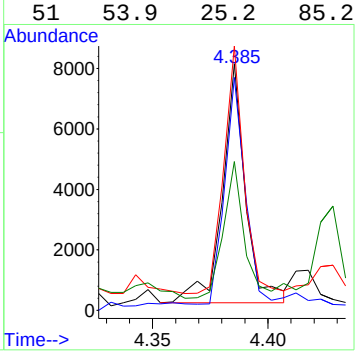




#104
Benzaldehyde
Concen: 0.5809 ppm
RT: 4.385 min Scan# 383
Delta R.T. 0.005 min
Lab File: cj6540.D
Acq: 10 May 2024 12:54 am

Tgt Ion:105 Resp: 5498

Ion	Ratio	Lower	Upper
105	100		
106	95.4	62.5	122.5
77	104.7	80.6	140.6
51	53.9	25.2	85.2



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6540.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.252	354	358	361	rVB	759246	491119	8.63%	0.428%
2	4.428	379	391	396	rVV	2049169	1495541	26.29%	1.304%
3	4.487	396	402	405	rVV	513351	315131	5.54%	0.275%
4	4.664	431	435	440	rBV	3174585	2028522	35.66%	1.769%
5	4.910	479	481	494	rVB2	410578	266196	4.68%	0.232%
6	5.011	494	500	503	rBV	2061662	1291785	22.71%	1.126%
7	5.466	579	585	593	rVV	3479347	2566621	45.12%	2.238%
8	6.167	711	716	720	rBV	4097579	2462144	43.28%	2.147%
9	6.263	727	734	740	rVB3	241728	228922	4.02%	0.200%
10	6.557	784	789	794	rBV2	195643	271094	4.77%	0.236%
11	6.659	803	808	815	rVB	4287593	2947752	51.82%	2.570%
12	6.883	845	850	858	rBV	322860	427256	7.51%	0.373%
13	7.274	917	923	926	rVB	1548010	1132532	19.91%	0.988%
14	7.381	940	943	950	rVB2	154784	205682	3.62%	0.179%
15	7.456	950	957	960	rBV5	181234	255568	4.49%	0.223%
16	7.573	972	979	986	rVB2	690076	714997	12.57%	0.623%
17	7.637	986	991	994	rBV	346015	383661	6.74%	0.335%
18	7.702	999	1003	1008	rVB2	175884	211261	3.71%	0.184%
19	7.766	1008	1015	1024	rVB3	122705	233156	4.10%	0.203%
20	7.841	1024	1029	1031	rBV2	208160	213392	3.75%	0.186%
21	7.873	1031	1035	1042	rBV2	3779504	3592666	63.16%	3.133%
22	7.937	1042	1047	1051	rVB	437521	377233	6.63%	0.329%
23	8.081	1070	1074	1081	rVB3	195744	268560	4.72%	0.234%
24	8.306	1112	1116	1119	rBV	540783	606218	10.66%	0.529%
25	8.338	1119	1122	1126	rVV2	1083213	1072882	18.86%	0.936%
26	8.376	1126	1129	1135	rVV	2595345	2327265	40.91%	2.029%
27	8.424	1135	1138	1146	rVB2	345771	467072	8.21%	0.407%
28	8.536	1153	1159	1163	rBV2	299072	292528	5.14%	0.255%
29	8.836	1208	1215	1218	rBV4	140446	217182	3.82%	0.189%
30	8.862	1218	1220	1226	rVB3	188020	225194	3.96%	0.196%
31	8.985	1234	1243	1249	rBV	2024045	1790075	31.47%	1.561%
32	9.050	1249	1255	1265	rBV4	1417535	2723049	47.87%	2.375%
33	9.124	1265	1269	1276	rBV	1127508	1069083	18.79%	0.932%
34	9.199	1276	1283	1287	rBV	1688291	1607672	28.26%	1.402%
35	9.269	1287	1296	1302	rVB4	290820	434693	7.64%	0.379%
36	9.354	1308	1312	1317	rBV	3190740	2705849	47.57%	2.360%
37	9.445	1327	1329	1333	rVB	284173	245107	4.31%	0.214%
38	9.520	1333	1343	1346	rVB	245446	412777	7.26%	0.360%
39	9.584	1351	1355	1358	rBV3	381257	435013	7.65%	0.379%
40	9.622	1358	1362	1370	rVB3	436898	538792	9.47%	0.470%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.729	1370	1382	1386	rBV3	412853	854833	15.03%	0.745%
42	9.793	1391	1394	1397	rVB	247027	216752	3.81%	0.189%
43	9.836	1397	1402	1405	rBV2	1398401	1346838	23.68%	1.174%
44	9.868	1405	1408	1415	rVB	801675	781737	13.74%	0.682%
45	9.943	1415	1422	1428	rVB7	266158	504671	8.87%	0.440%
46	10.007	1428	1434	1439	rBV2	163506	229196	4.03%	0.200%
47	10.071	1439	1446	1449	rBV2	987162	1107915	19.48%	0.966%
48	10.098	1449	1451	1458	rVB5	571496	576139	10.13%	0.502%
49	10.167	1458	1464	1466	rBV3	244002	282411	4.96%	0.246%
50	10.194	1466	1469	1477	rVB3	1121396	1265288	22.24%	1.103%
51	10.274	1479	1484	1493	rVB2	1025815	1262575	22.20%	1.101%
52	10.365	1493	1501	1504	rBV2	3290284	3678288	64.66%	3.208%
53	10.392	1504	1506	1515	rVB2	873917	1010100	17.76%	0.881%
54	10.499	1521	1526	1534	rBV2	2203942	2616027	45.99%	2.281%
55	10.595	1541	1544	1551	rVB5	235540	385659	6.78%	0.336%
56	10.681	1557	1560	1564	rBV3	197976	200850	3.53%	0.175%
57	10.718	1564	1567	1576	rBV4	296444	584956	10.28%	0.510%
58	10.815	1576	1585	1589	rBV2	628547	965047	16.97%	0.842%
59	10.906	1598	1602	1608	rVB	1998619	2023568	35.57%	1.765%
60	11.034	1617	1626	1628	rBV	425049	567435	9.98%	0.495%
61	11.119	1637	1642	1648	rBV	2308048	2734464	48.07%	2.384%
62	11.205	1654	1658	1667	rVV4	384427	706589	12.42%	0.616%
63	11.333	1678	1682	1684	rBV	634075	695927	12.23%	0.607%
64	11.355	1684	1686	1694	rVB	764855	1135603	19.96%	0.990%
65	11.419	1694	1698	1707	rBV4	550475	924199	16.25%	0.806%
66	11.515	1708	1716	1725	rVV3	2298664	3932245	69.13%	3.429%
67	11.612	1730	1734	1739	rVB	448324	464502	8.17%	0.405%
68	11.660	1739	1743	1748	rVB	732640	857405	15.07%	0.748%
69	11.719	1748	1754	1757	rBV	2301889	2642211	46.45%	2.304%
70	11.751	1757	1760	1767	rVB3	778764	1104568	19.42%	0.963%
71	11.842	1772	1777	1779	rBV	206135	244292	4.29%	0.213%
72	11.868	1779	1782	1786	rVV5	242122	344890	6.06%	0.301%
73	11.916	1787	1791	1796	rVB4	125638	194118	3.41%	0.169%
74	12.013	1802	1809	1819	rVB	1067913	1703736	29.95%	1.486%
75	12.130	1819	1831	1837	rBV6	323914	895664	15.75%	0.781%
76	12.216	1837	1847	1850	rBV	2585005	3588812	63.09%	3.129%
77	12.248	1850	1853	1863	rVB	2443318	3560935	62.60%	3.105%
78	12.366	1868	1875	1879	rVV3	388204	748302	13.16%	0.653%
79	12.409	1879	1883	1889	rVB	439903	597488	10.50%	0.521%
80	12.537	1901	1907	1917	rVB	425025	725317	12.75%	0.632%
81	12.633	1917	1925	1928	rBV3	151217	292313	5.14%	0.255%
82	12.676	1928	1933	1939	rVB4	295102	542974	9.55%	0.473%
83	12.756	1941	1948	1961	rVB6	194533	526397	9.25%	0.459%
84	12.869	1961	1969	1973	rBV	972767	1606046	28.23%	1.400%
85	12.906	1974	1976	1981	rVV2	178145	194832	3.43%	0.170%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.970	1981	1988	1996	rVB5	346848	723057	12.71%	0.631%
87	13.088	1996	2010	2021	rBV6	1716404	5012009	88.11%	4.371%
88	13.179	2021	2027	2034	rVV	989877	1767857	31.08%	1.542%
89	13.254	2034	2041	2053	rVB2	687150	1634590	28.74%	1.425%
90	13.350	2053	2059	2065	rBV9	216111	457971	8.05%	0.399%
91	13.430	2065	2074	2083	rVV2	2942277	5688235	100.00%	4.960%
92	13.505	2083	2088	2093	rVV5	210959	352154	6.19%	0.307%
93	13.575	2093	2101	2108	rVB10	134421	382871	6.73%	0.334%
94	13.735	2124	2131	2140	rVV8	347773	1060770	18.65%	0.925%
95	13.815	2141	2146	2151	rVV8	165532	347071	6.10%	0.303%
96	13.853	2151	2153	2161	rVB7	142233	228058	4.01%	0.199%
97	14.008	2171	2182	2191	rBV5	426182	1563012	27.48%	1.363%
98	14.227	2214	2223	2235	rBV3	1125903	2675473	47.04%	2.333%
99	14.323	2235	2241	2248	rVB3	85761	230096	4.05%	0.201%
100	14.441	2250	2263	2269	rBV2	604606	1578430	27.75%	1.376%

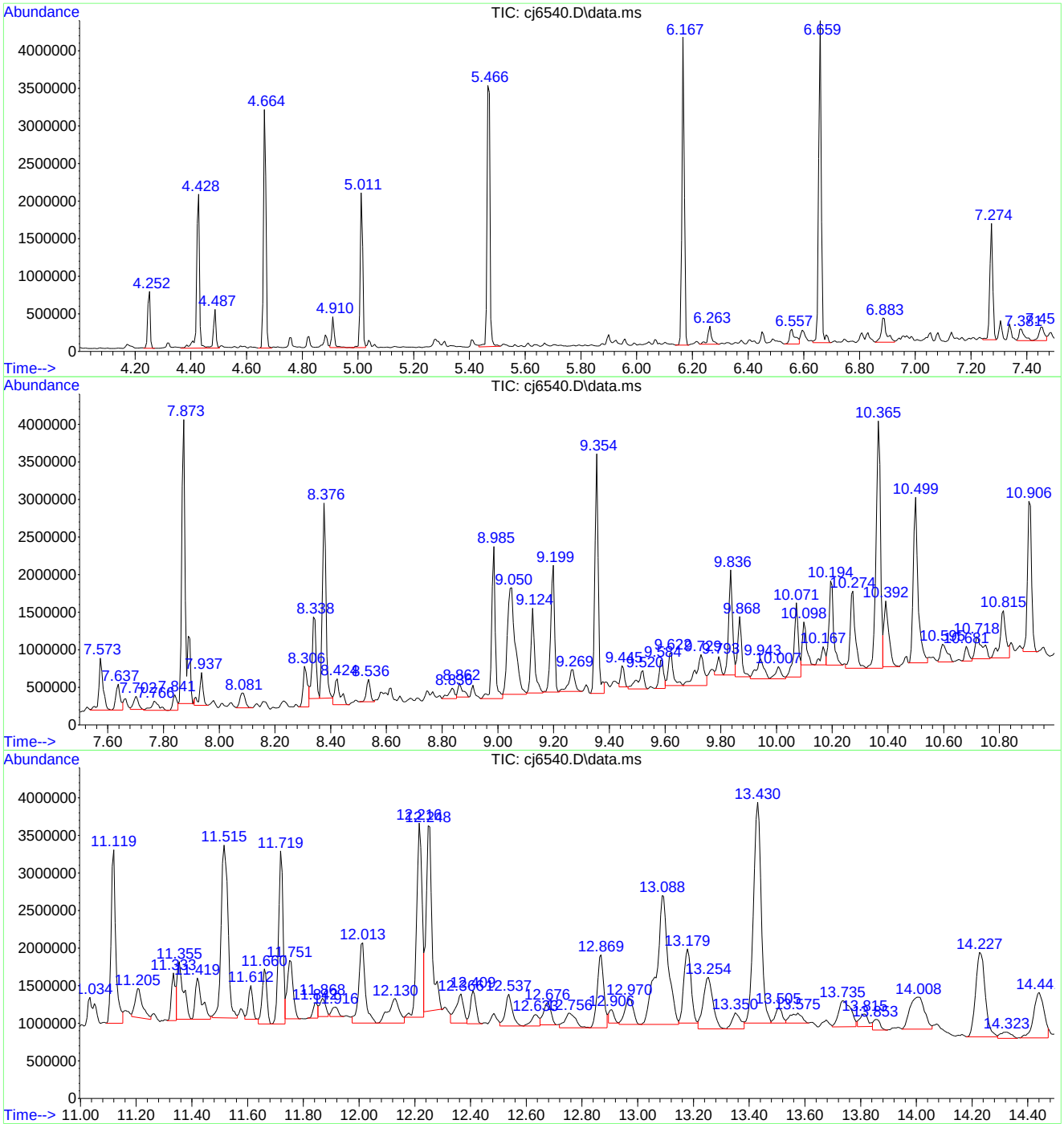
Sum of corrected areas: 114677010

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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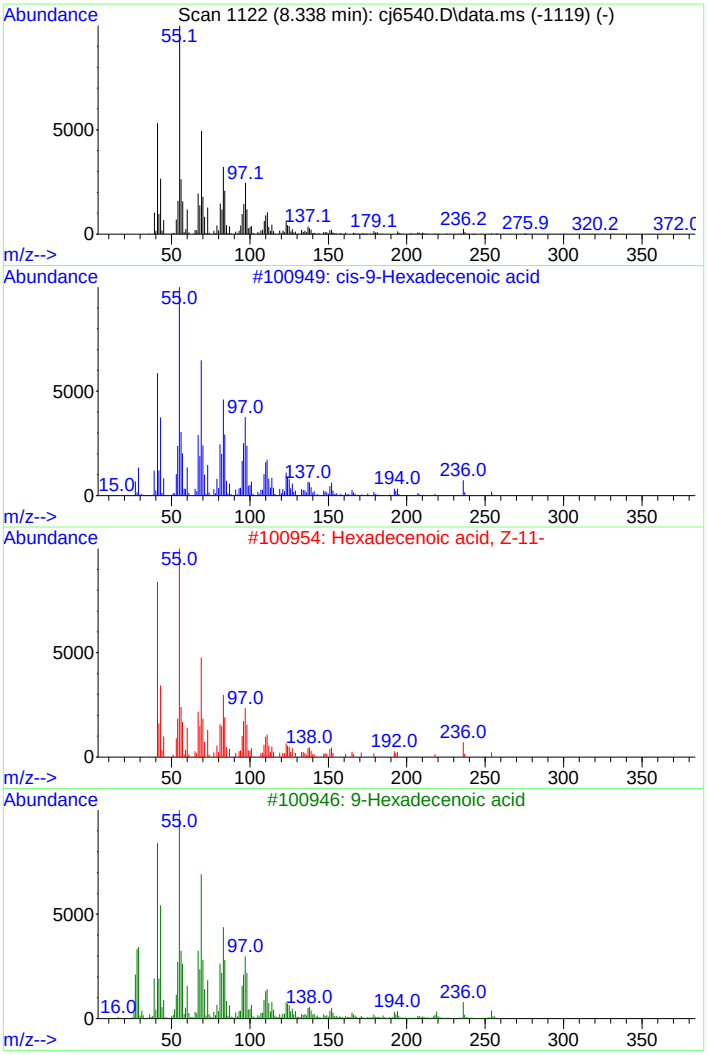
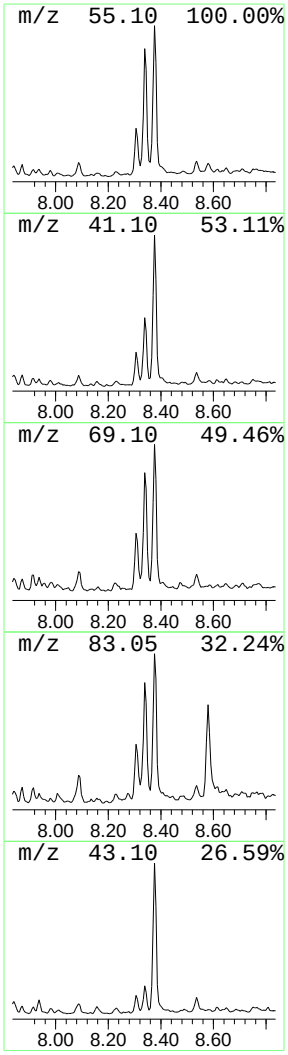
Peak Number 1 Unknown acid Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.338	11.95 ppm	1072880	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	cis-9-Hexadecenoic acid	254	C16H30O2	1000333-19-5	93
2	Hexadecenoic acid, Z-11-	254	C16H30O2	002416-20-8	87
3	9-Hexadecenoic acid	254	C16H30O2	002091-29-4	87
4	Myristoleic acid	226	C14H26O2	000544-64-9	80
5	E-9-Tetradecenoic acid	226	C14H26O2	1000131-35-8	80





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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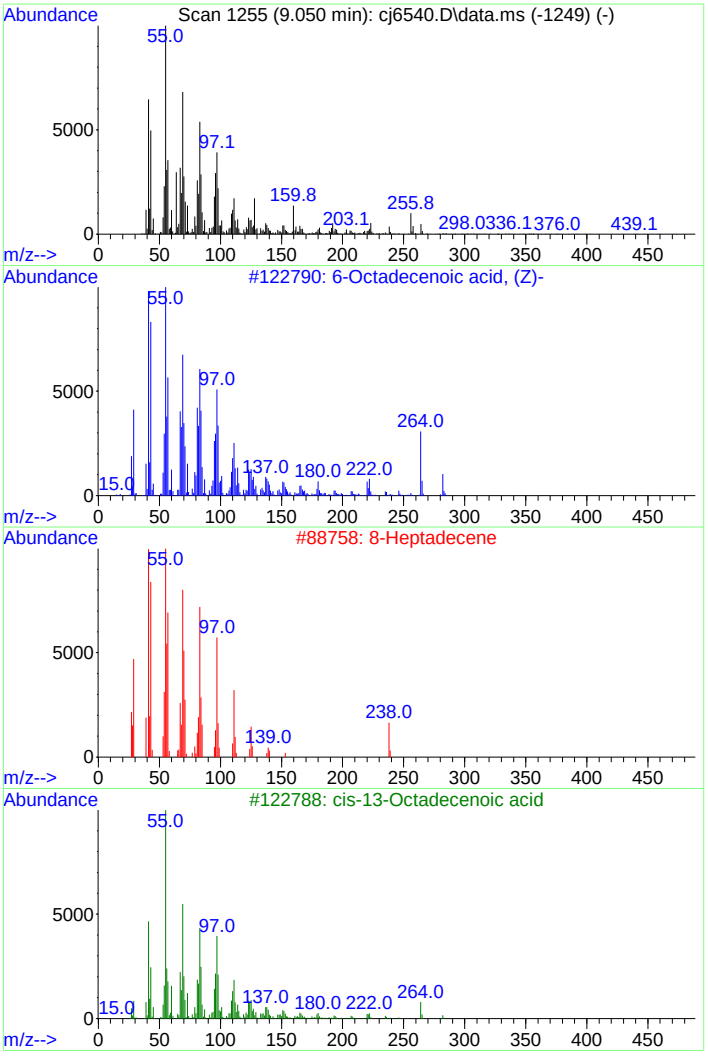
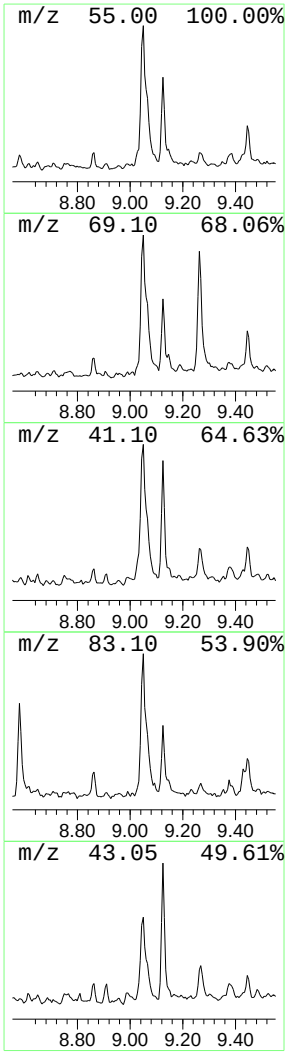
Peak Number 2 Unknown alcohol Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.050	30.32 ppm	2723050	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6-Octadecenoic acid, (Z)-	282	C18H34O2	000593-39-5	96
2	8-Heptadecene	238	C17H34	002579-04-6	90
3	cis-13-Octadecenoic acid	282	C18H34O2	013126-39-1	90
4	Octadec-9-enoic acid	282	C18H34O2	1000190-13-7	70
5	9-Octadecenoic acid, (E)-	282	C18H34O2	000112-79-8	70





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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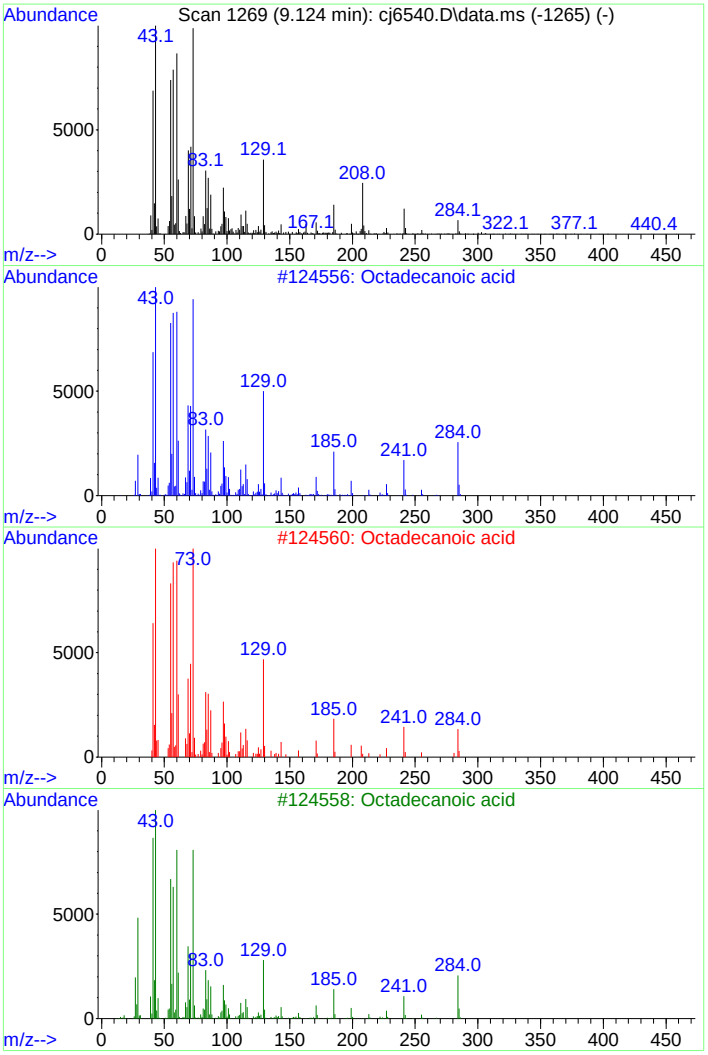
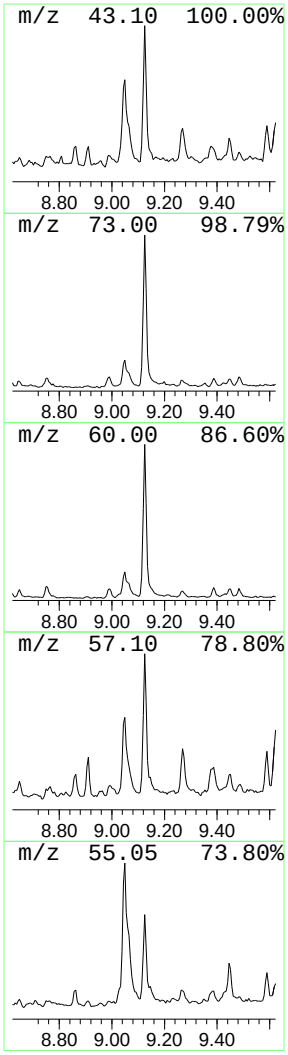
Peak Number 3 Octadecanoic acid Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.124	11.63 ppm	1069080	Chrysene-d12	10.365

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Octadecanoic acid	284	C18H36O2	000057-11-4	99
3	Octadecanoic acid	284	C18H36O2	000057-11-4	95
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
5	Octadecanoic acid	284	C18H36O2	000057-11-4	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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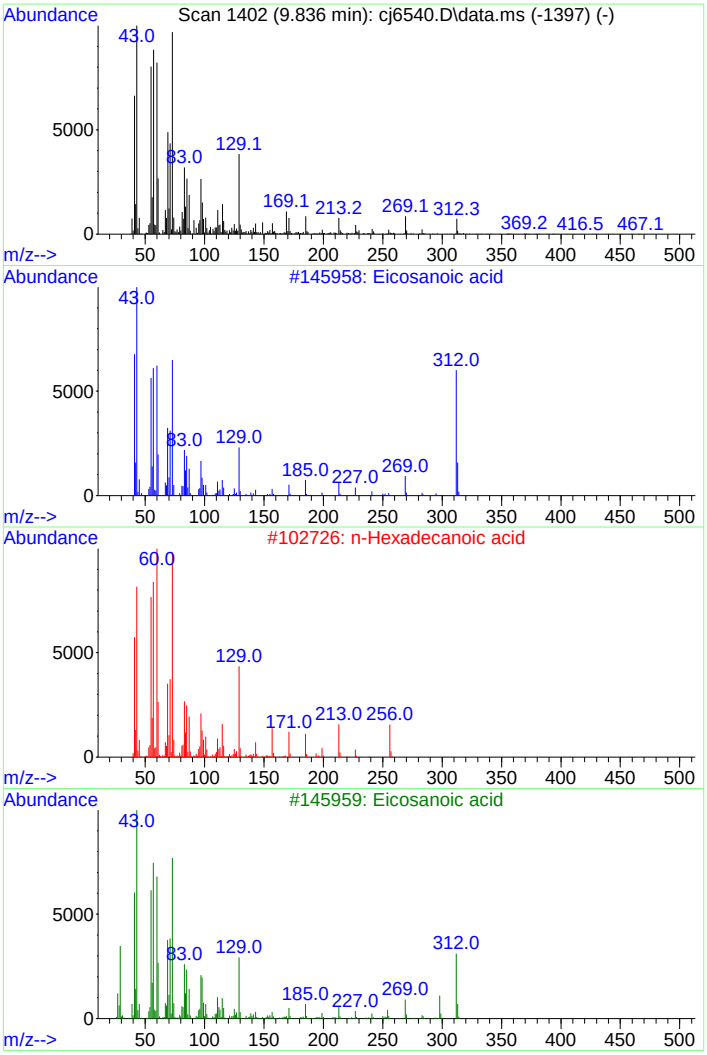
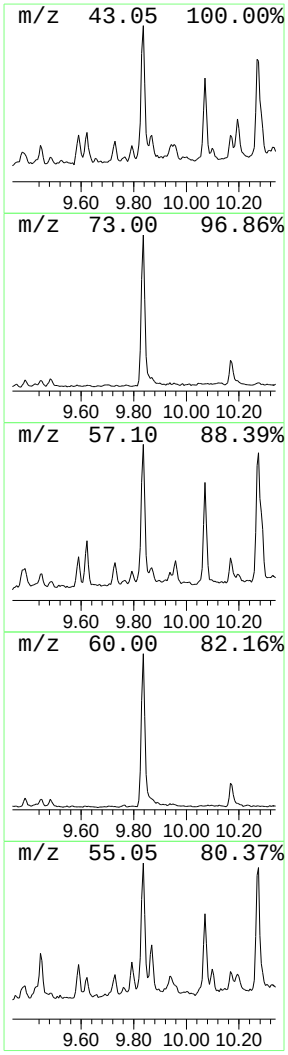
Peak Number 4 Unknown acid Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.836	14.65 ppm	1346840	Chrysene-d12	10.365

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosanoic acid	312	C20H40O2	000506-30-9	97
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	94
3	Eicosanoic acid	312	C20H40O2	000506-30-9	91
4	Octadecanoic acid	284	C18H36O2	000057-11-4	91
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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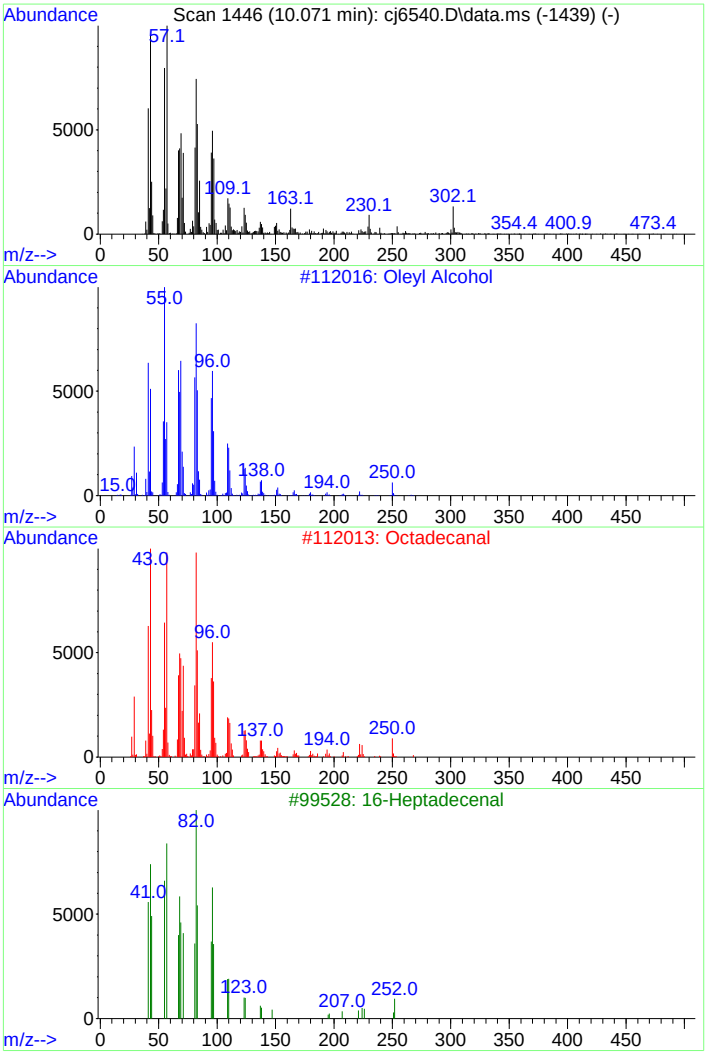
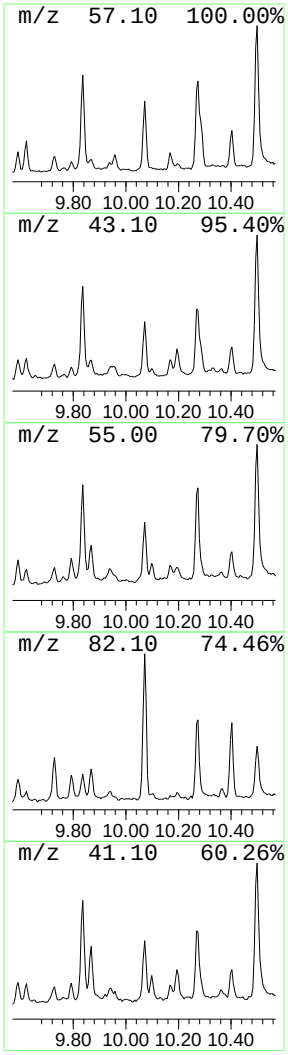
Peak Number 5 Unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.071	12.05 ppm	1107920	Chrysene-d12	10.365

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oleyl Alcohol	268	C18H36O	000143-28-2	93
2	Octadecanal	268	C18H36O	000638-66-4	90
3	16-Heptadecenal	252	C17H32O	1000144-57-9	89
4	1,19-Eicosadiene	278	C20H38	014811-95-1	89
5	Pentadecanal-	226	C15H30O	002765-11-9	87





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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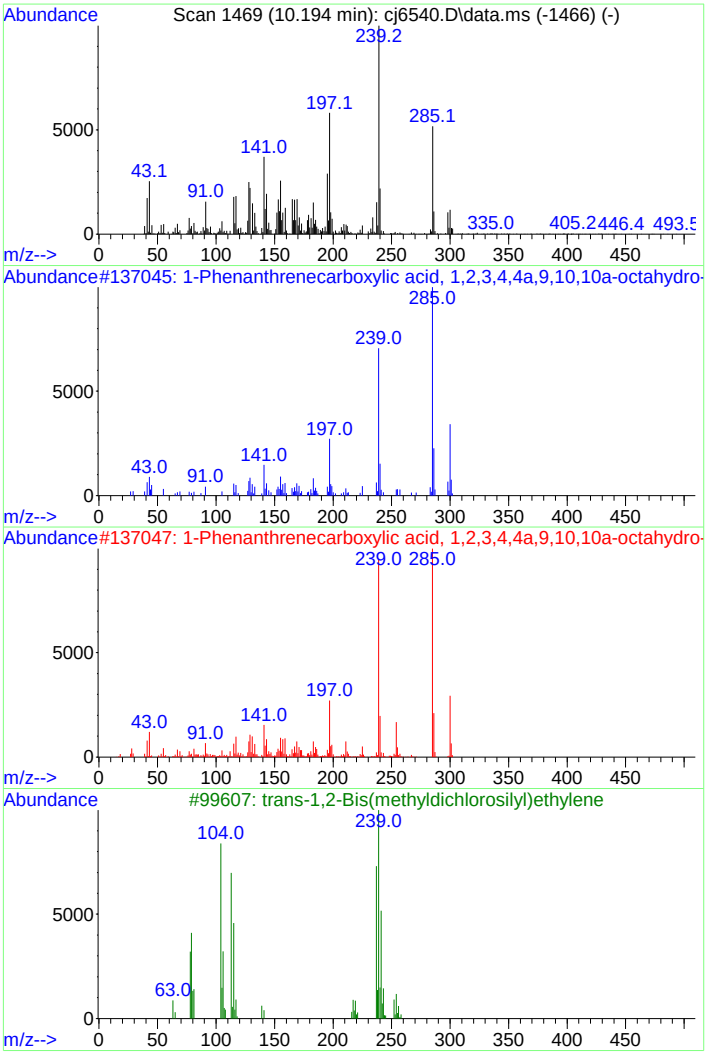
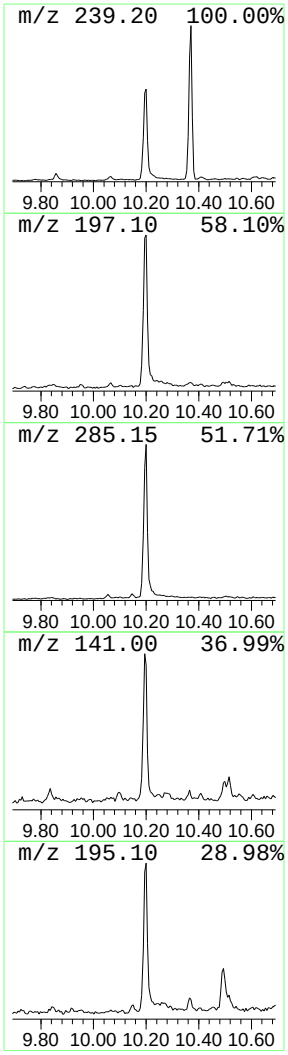
Peak Number 6 Butanoic acid, 2-(cyano)(2,... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.194	13.76 ppm	1265290	Chrysene-d12	10.365

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenanthrenecarboxylic acid, 1...	300	C20H28O2	005155-70-4	93
2	1-Phenanthrenecarboxylic acid, 1...	300	C20H28O2	001740-19-8	87
3	trans-1,2-Bis(methyldichlorosily...	252	C4H8Cl4Si2	065899-10-7	83
4	1-Phenanthrenecarboxylic acid, 1...	300	C20H28O2	001740-19-8	74
5	Butanoic acid, 2-(cyano)(2,4,6-t...	300	C17H20N2O3	1000267-71-7	64





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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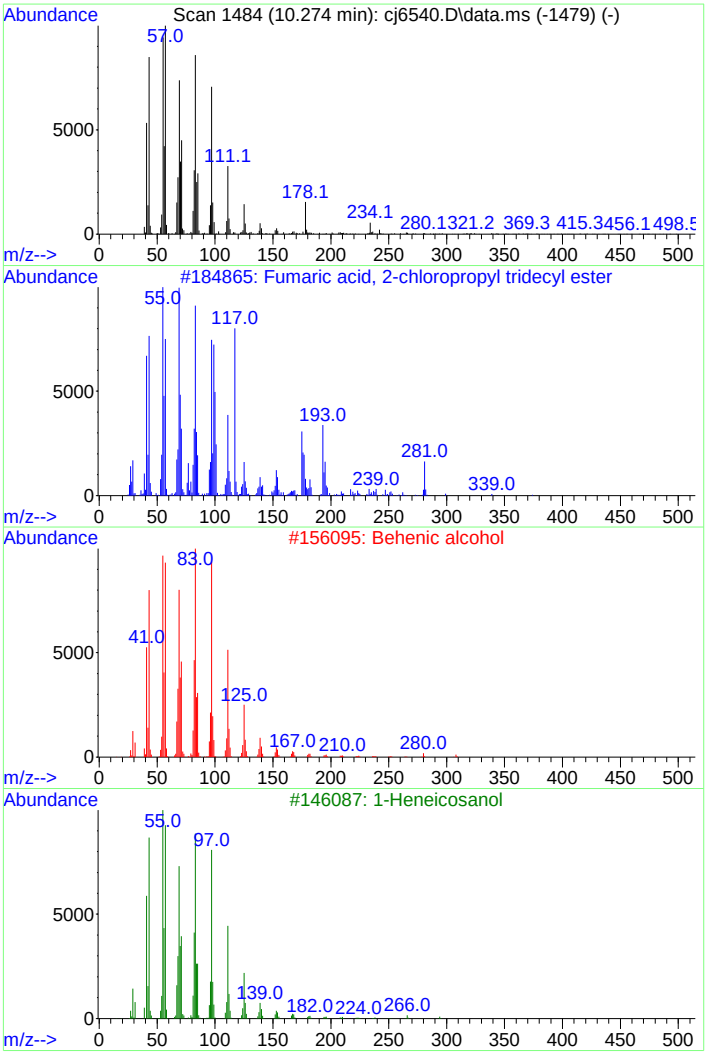
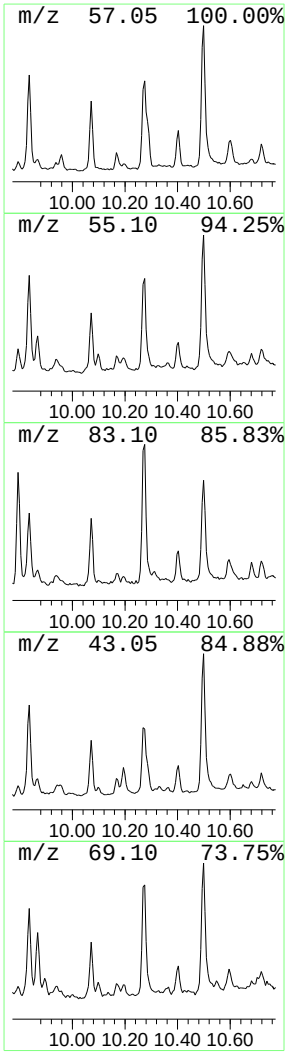
Peak Number 7 Unknown alcohol Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.274	13.73 ppm	1262580	Chrysene-d12	10.365

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fumaric acid, 2-chloropropyl tri...	374	C20H35ClO4	1000348-57-1	98
2	Behenic alcohol	326	C22H46O	000661-19-8	94
3	1-Heneicosanol	312	C21H44O	015594-90-8	94
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
5	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	91





Library Search Compound Report

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Sample : jd87833-9
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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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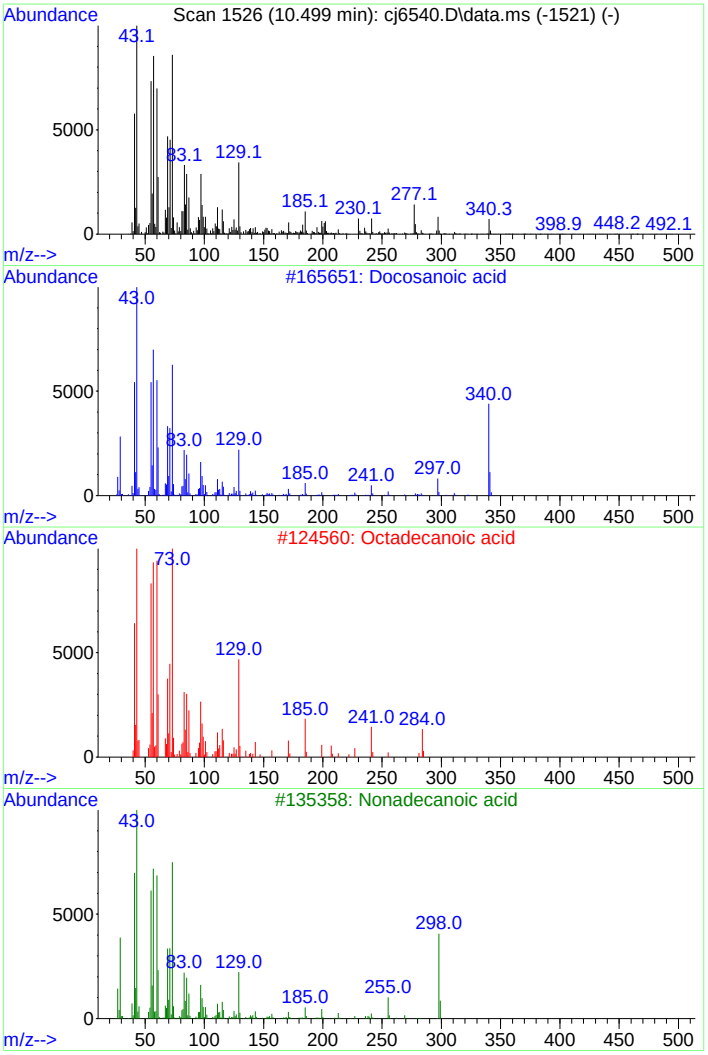
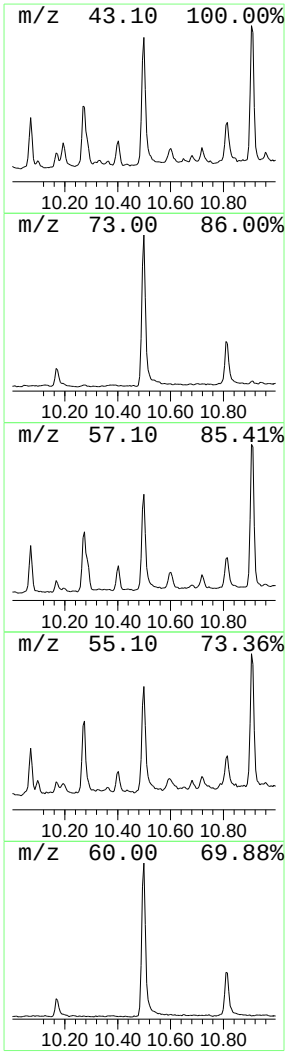
Peak Number 8 Docosanoic acid Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.499	28.45 ppm	2616030	Chrysene-d12a	10.365

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosanoic acid	340	C22H44O2	000112-85-6	99
2	Octadecanoic acid	284	C18H36O2	000057-11-4	97
3	Nonadecanoic acid	298	C19H38O2	000646-30-0	94
4	Docosanoic acid	340	C22H44O2	000112-85-6	74
5	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	58





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ALS Vial : 31 Sample Multiplier: 1

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TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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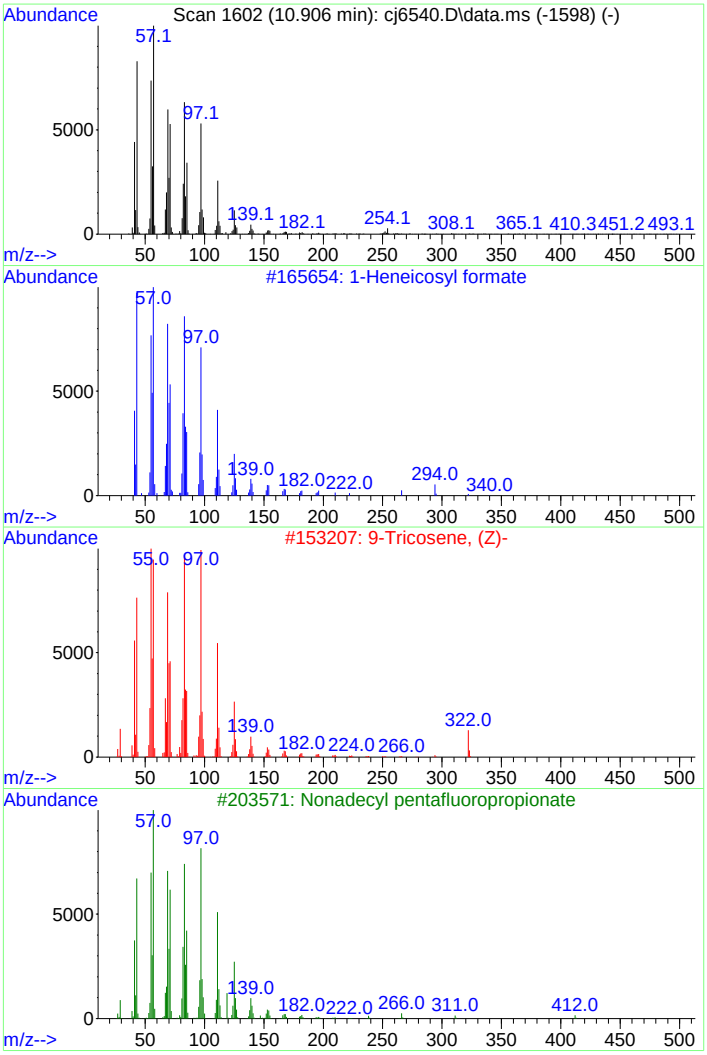
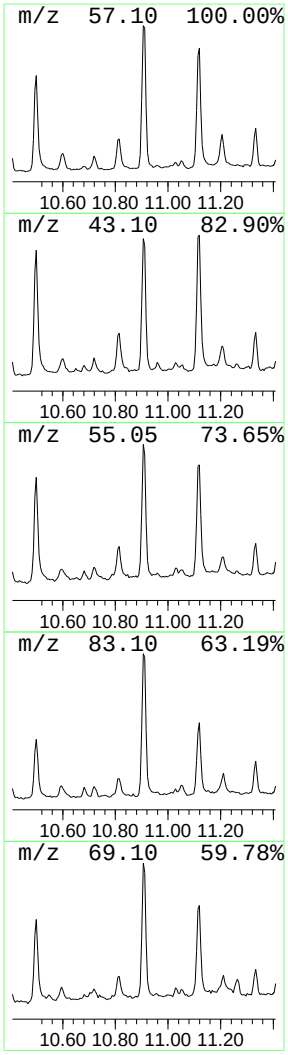
Peak Number 9 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.906	22.01 ppm	2023570	Chrysene-d12a	10.365

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosyl formate	340	C22H44O2	077899-03-7	97
2	9-Tricosene, (Z)-	322	C23H46	027519-02-4	93
3	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	91
4	Tricosyl pentafluoropropionate	486	C26H47F5O2	1000351-81-0	91
5	Eicosyl pentafluoropropionate	444	C23H41F5O2	1000351-80-8	91





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TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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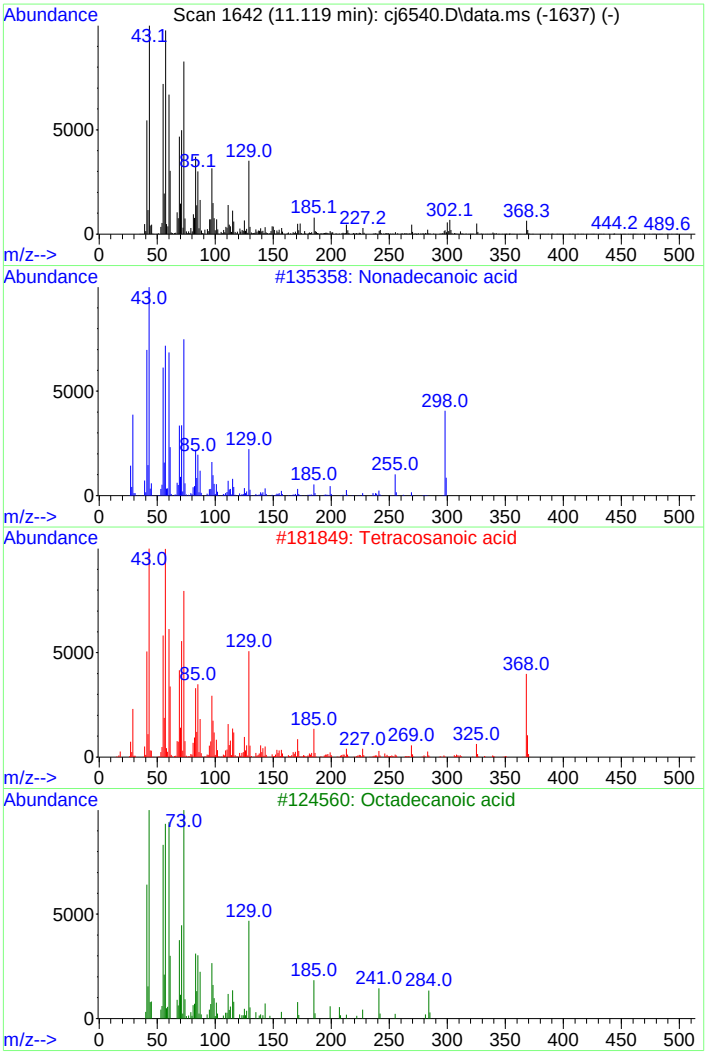
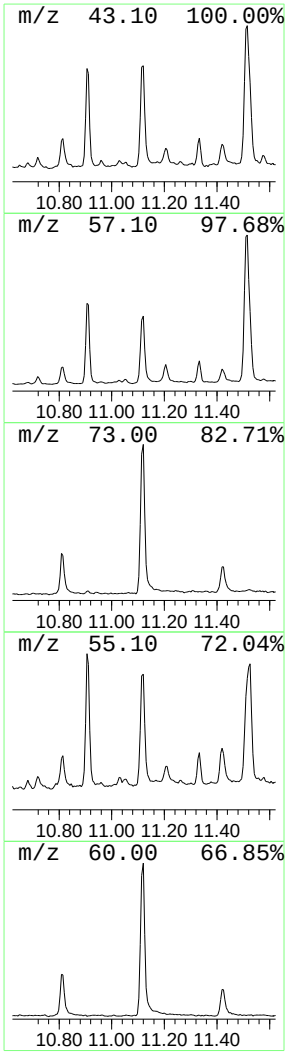
Peak Number 10 Unknown acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.120	41.40 ppm	2734460	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecanoic acid	298	C19H38O2	000646-30-0	91
2	Tetracosanoic acid	368	C24H48O2	000557-59-5	83
3	Octadecanoic acid	284	C18H36O2	000057-11-4	76
4	n-Decanoic acid	172	C10H20O2	000334-48-5	62
5	Oxalic acid, allyl hexadecyl ester	354	C21H38O4	1000309-24-4	38





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Acq On : 10 May 2024 12:54 am
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Sample : jd87833-9
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ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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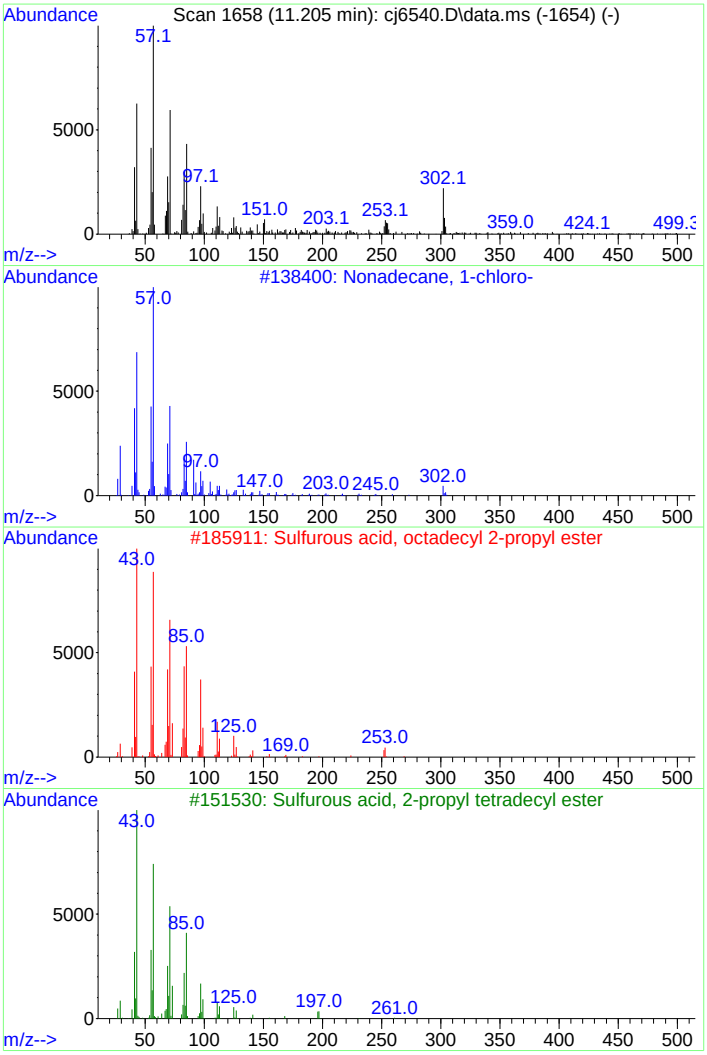
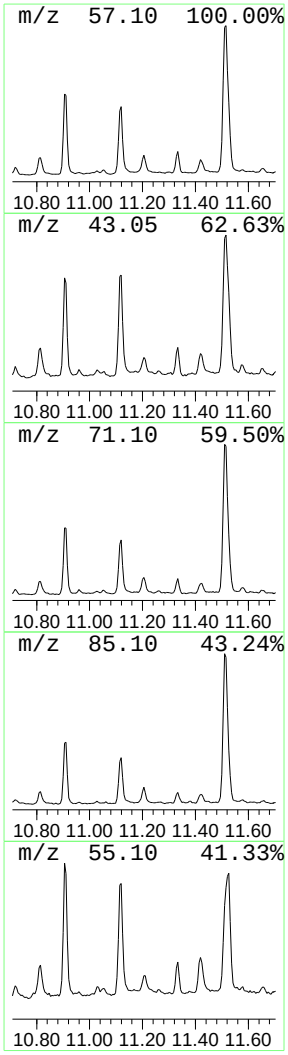
Peak Number 11 Unknown Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.205	10.70 ppm	706589	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane, 1-chloro-	302	C19H39Cl	062016-76-6	93
2	Sulfurous acid, octadecyl 2-prop...	376	C21H44O3S	1000309-12-7	76
3	Sulfurous acid, 2-propyl tetrade...	320	C17H36O3S	1000309-12-5	68
4	Heptacosane, 1-chloro-	414	C27H55Cl	062016-79-9	64
5	Sulfurous acid, pentadecyl 2-pro...	334	C18H38O3S	1000309-12-6	64





Library Search Compound Report

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Sample : jd87833-9
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ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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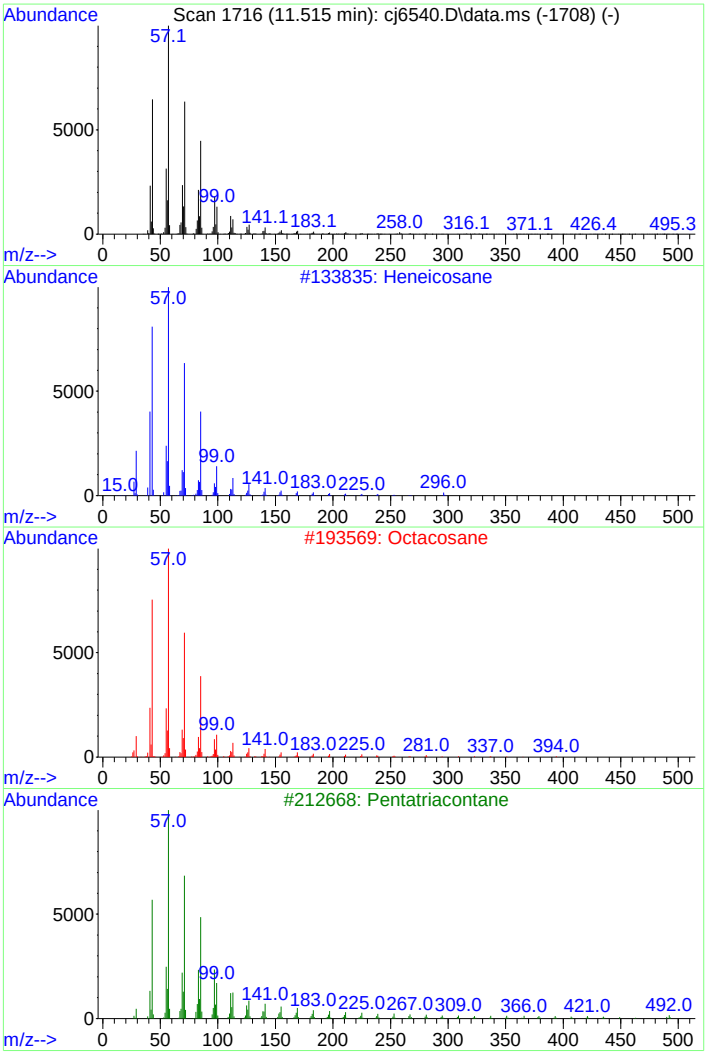
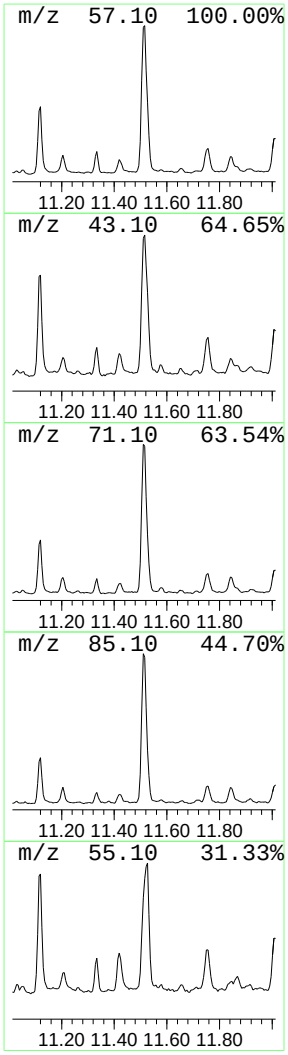
Peak Number 12 Alkane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.515	59.53 ppm	3932250	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	95
2	Octacosane	394	C28H58	000630-02-4	93
3	Pentatriacontane	493	C35H72	000630-07-9	93
4	Dotriacontane	451	C32H66	000544-85-4	91
5	Tritetracontane	605	C43H88	007098-21-7	91





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Acq On : 10 May 2024 12:54 am
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Sample : jd87833-9
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ALS Vial : 31 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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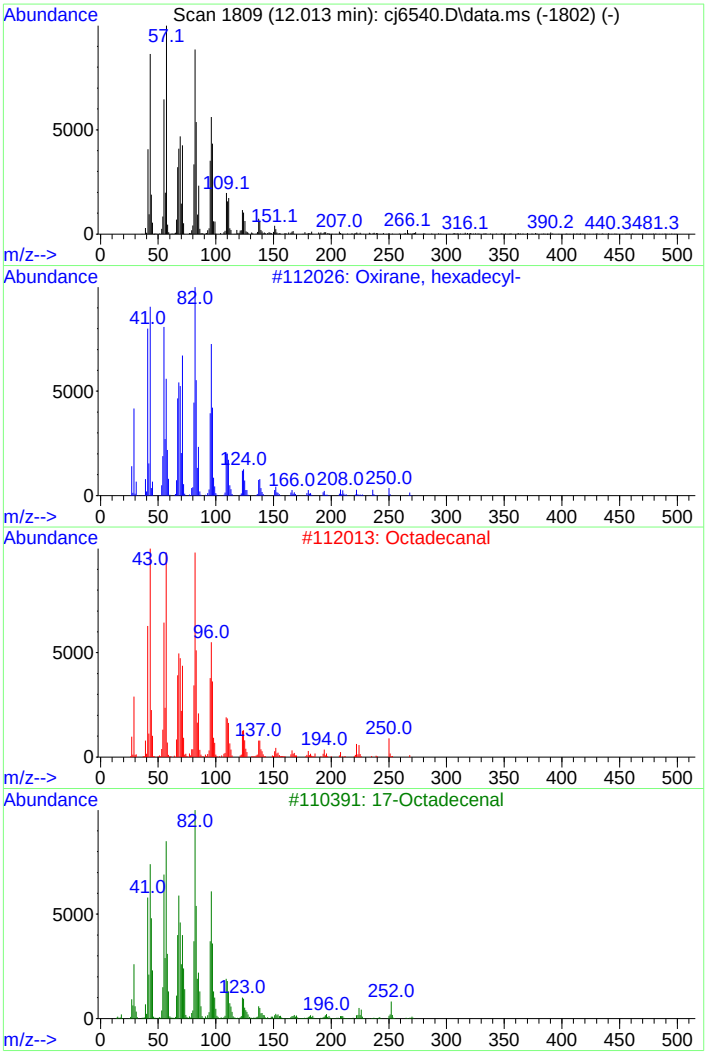
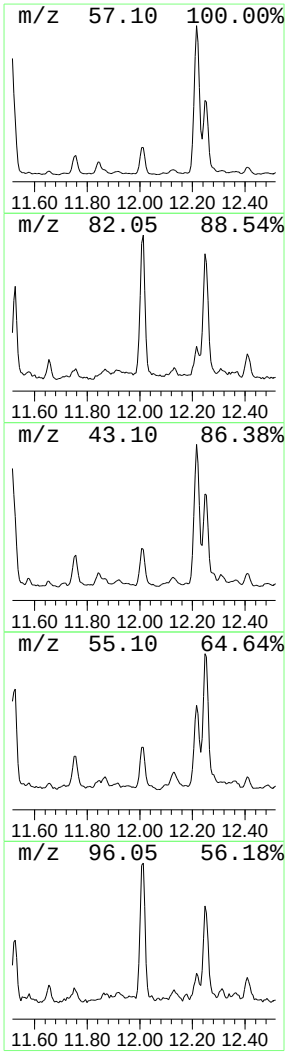
Peak Number 13 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.013	25.79 ppm	1703740	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
2	Octadecanal	268	C18H36O	000638-66-4	91
3	17-Octadecenal	266	C18H34O	056554-86-0	90
4	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	86
5	Tetradecanal	212	C14H28O	000124-25-4	80





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Acq On : 10 May 2024 12:54 am
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Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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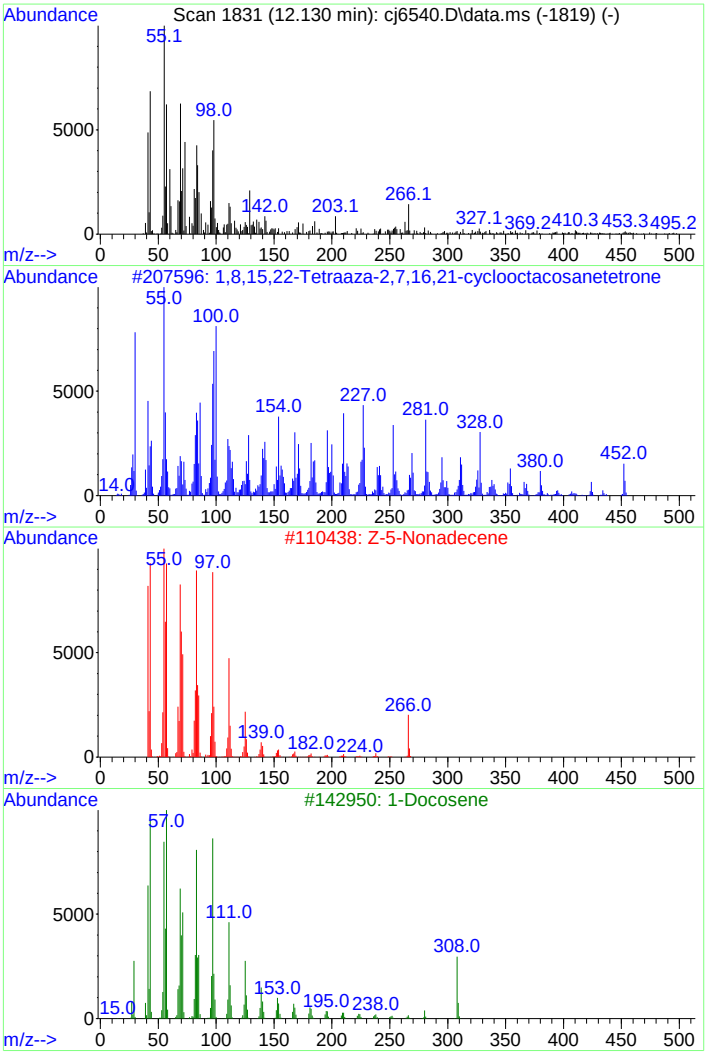
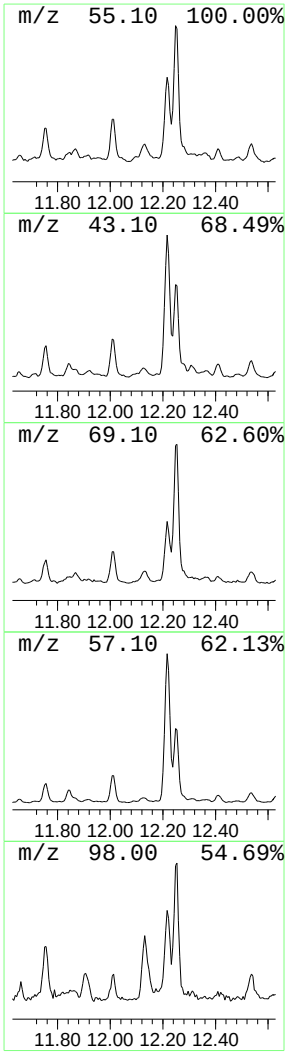
Peak Number 14 Unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.130	13.56 ppm	895664	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,8,15,22-Tetraaza-2,7,16,21-cyc...	452	C24H44N4O4	004238-35-1	93
2	Z-5-Nonadecene	266	C19H38	1000131-11-8	78
3	1-Docosene	308	C22H44	001599-67-3	55
4	Octadecane, 1-(ethenyloxy)-	296	C20H40O	000930-02-9	50
5	Hexadecenoic acid, Z-11-	254	C16H30O2	002416-20-8	49





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ALS Vial : 31 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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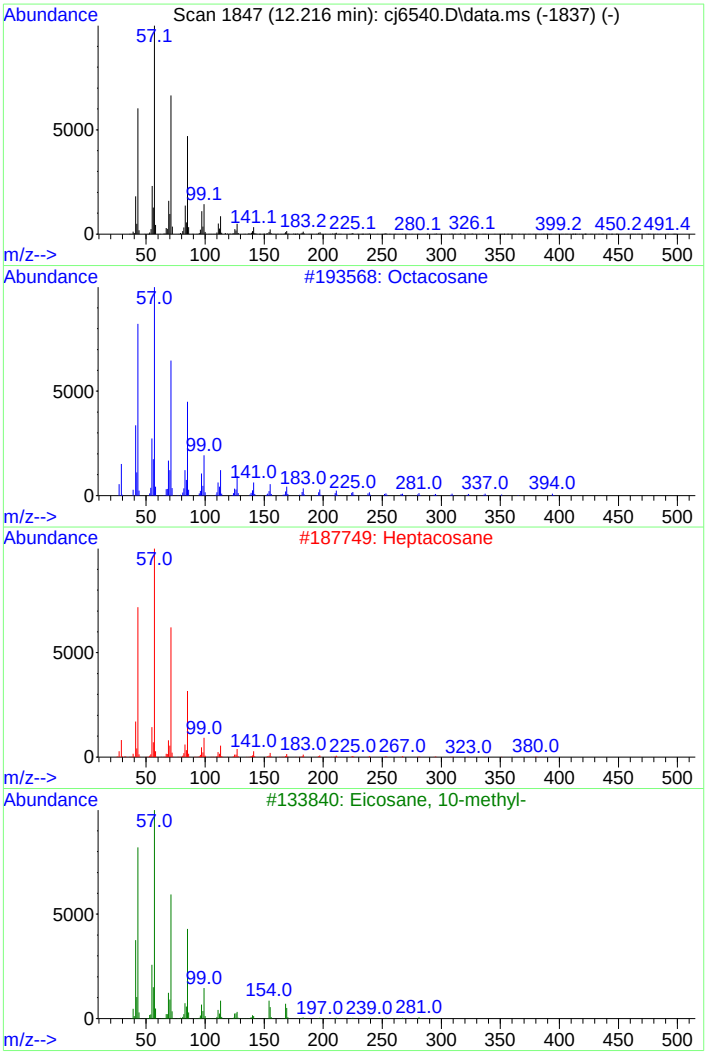
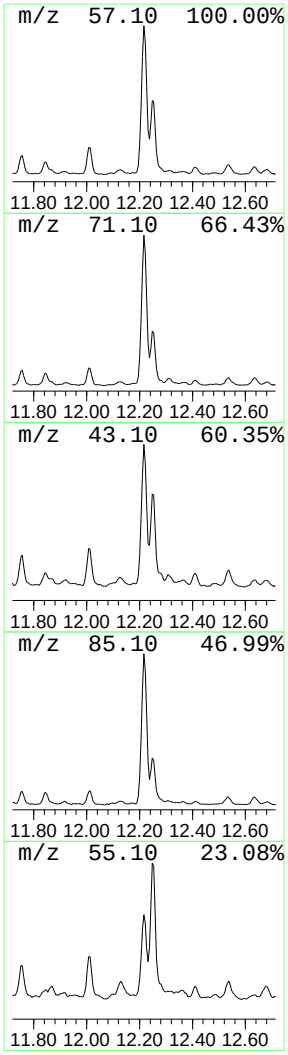
Peak Number 15 Alkane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.216	54.33 ppm	3588810	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	91
2	Heptacosane	380	C27H56	000593-49-7	91
3	Eicosane, 10-methyl-	296	C21H44	054833-23-7	90
4	Tetratetracontane	619	C44H90	007098-22-8	90
5	Tetracosane	338	C24H50	000646-31-1	90





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Misc : op54460,ecj297,30.7,,,1,1
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Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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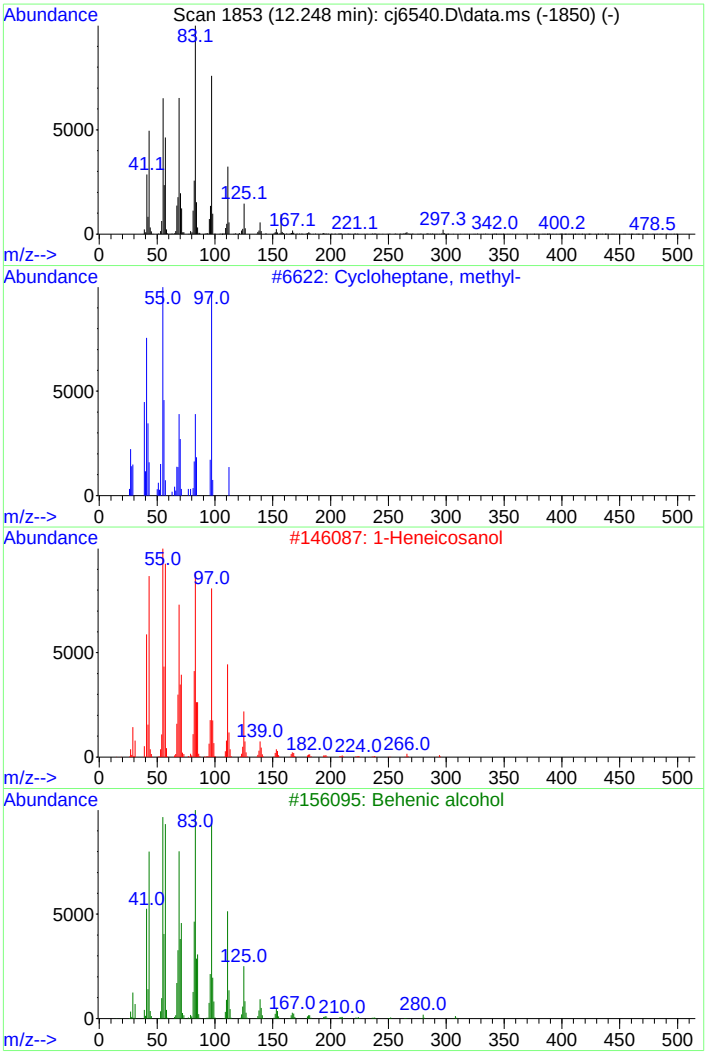
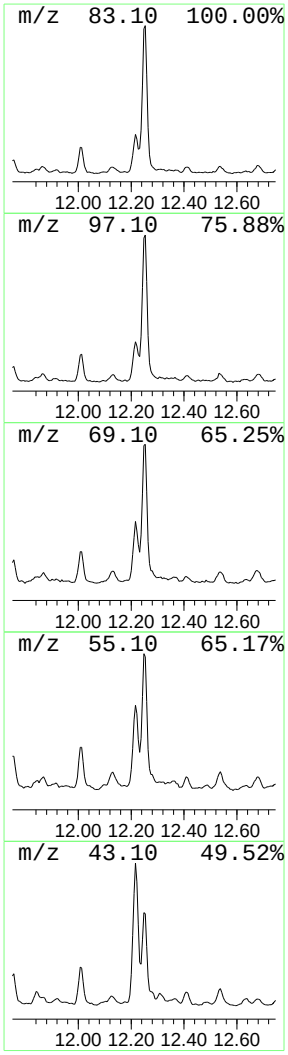
Peak Number 16 Unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.248	53.91 ppm	3560940	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cycloheptane, methyl-	112	C8H16	004126-78-7	60
2	1-Heneicosanol	312	C21H44O	015594-90-8	52
3	Behenic alcohol	326	C22H46O	000661-19-8	50
4	Cyclohexanone, 3-ethyl-	126	C8H14O	022461-89-8	47
5	1-Nonadecene	266	C19H38	018435-45-5	43





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Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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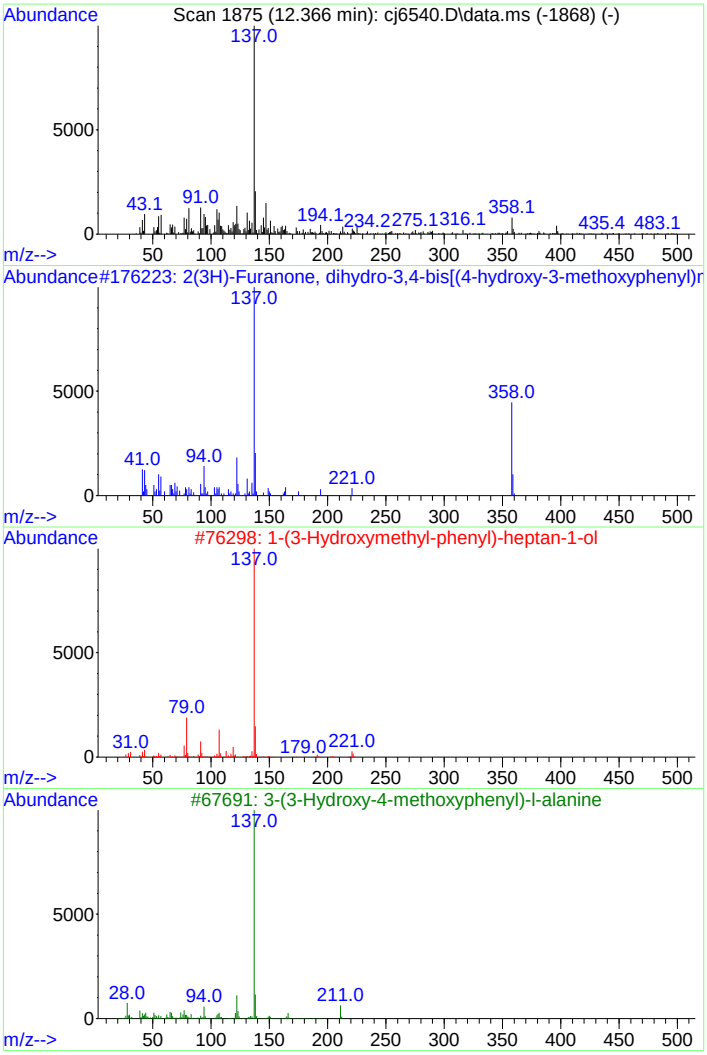
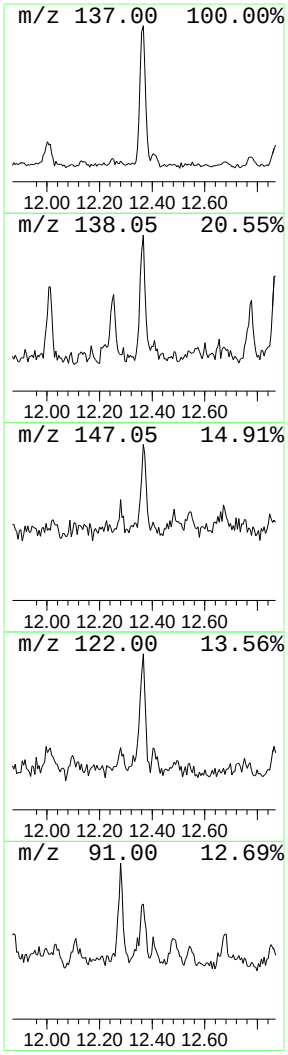
Peak Number 17 Unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.366	11.33 ppm	748302	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(3H)-Furanone, dihydro-3,4-bis[...	358	C20H22O6	000580-72-3	96
2	1-(3-Hydroxymethyl-phenyl)-hepta...	222	C14H22O2	1000186-47-5	53
3	3-(3-Hydroxy-4-methoxyphenyl)-l-...	211	C10H13NO4	1000103-80-4	53
4	Phenylacetylformic acid, 4-hydro...	210	C10H10O5	001081-71-6	50
5	Dihydrocapsaicin	307	C18H29NO3	019408-84-5	50





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Sample : jd87833-9
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ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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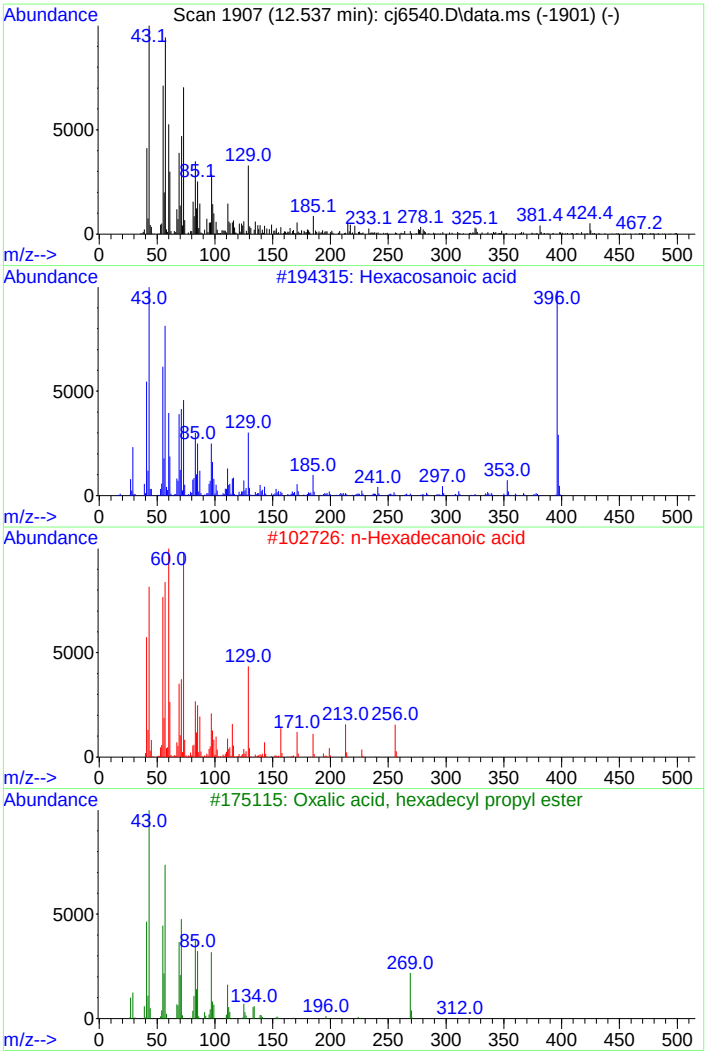
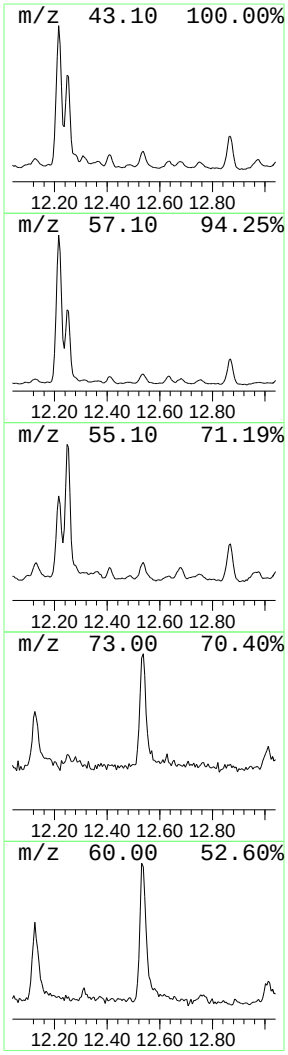
Peak Number 18 Unknown acid Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.537	10.98 ppm	725317	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexacosanoic acid	396	C26H52O2	000506-46-7	64
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	49
3	Oxalic acid, hexadecyl propyl ester	356	C21H40O4	1000309-26-9	45
4	5-Eicosene, (E)-	280	C20H40	074685-30-6	44
5	Silane, trichlorooctadecyl-	386	C18H37Cl3Si	000112-04-9	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

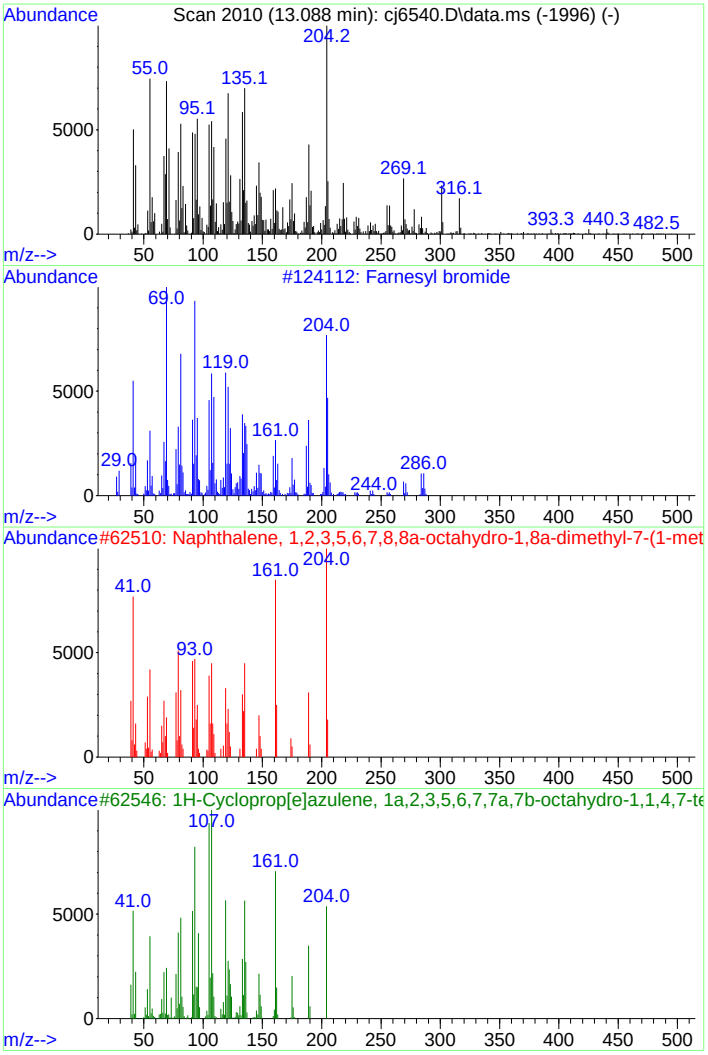
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

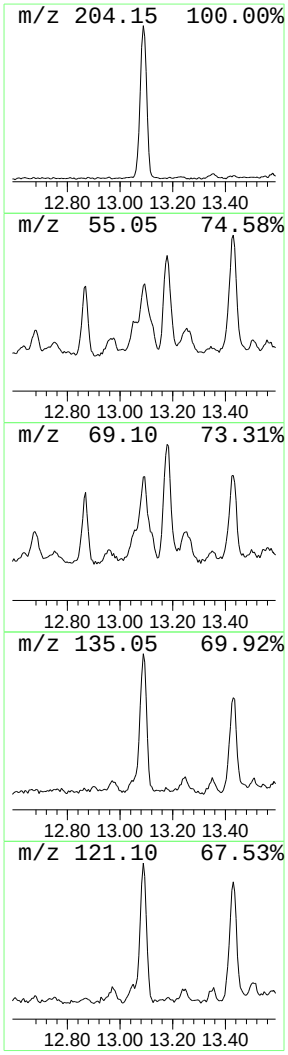
****

Peak Number 19 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.088	75.88 ppm	5012010	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Farnesyl bromide	284	C15H25Br	006874-67-5	62
2	Naphthalene, 1,2,3,5,6,7,8,8a-oc...	204	C15H24	004630-07-3	60
3	1H-Cycloprop[e]azulene, 1a,2,3,5...	204	C15H24	021747-46-6	55
4	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1000140-07-7	50
5	1H-3a,7-Methanoazulene, octahydr...	204	C15H24	000508-55-4	46





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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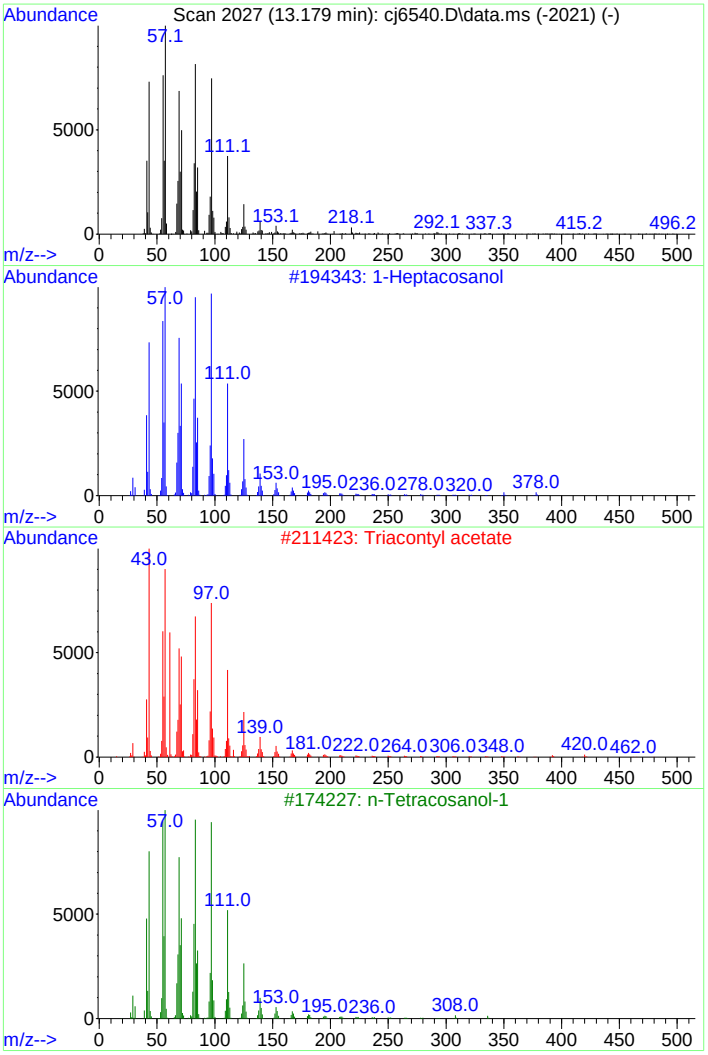
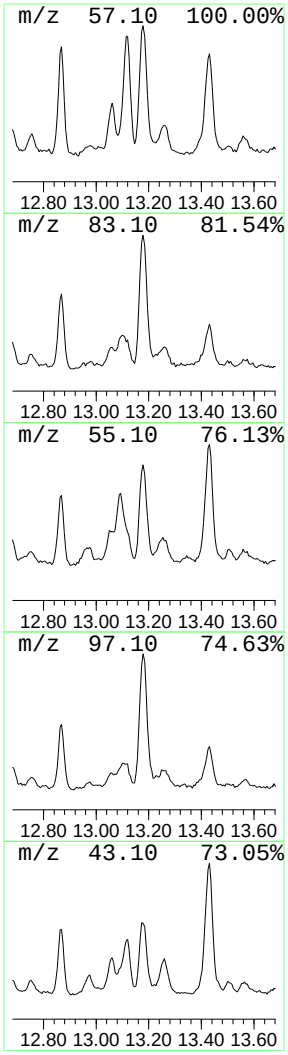
Peak Number 20 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.179	26.76 ppm	1767860	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heptacosanol	396	C27H56O	002004-39-9	94
2	Triacontyl acetate	480	C32H64O2	041755-58-2	93
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	90
4	1-Triacontanol	438	C30H62O	000593-50-0	90
5	Octadecane, 1-(ethenyloxy)-	296	C20H40O	000930-02-9	87





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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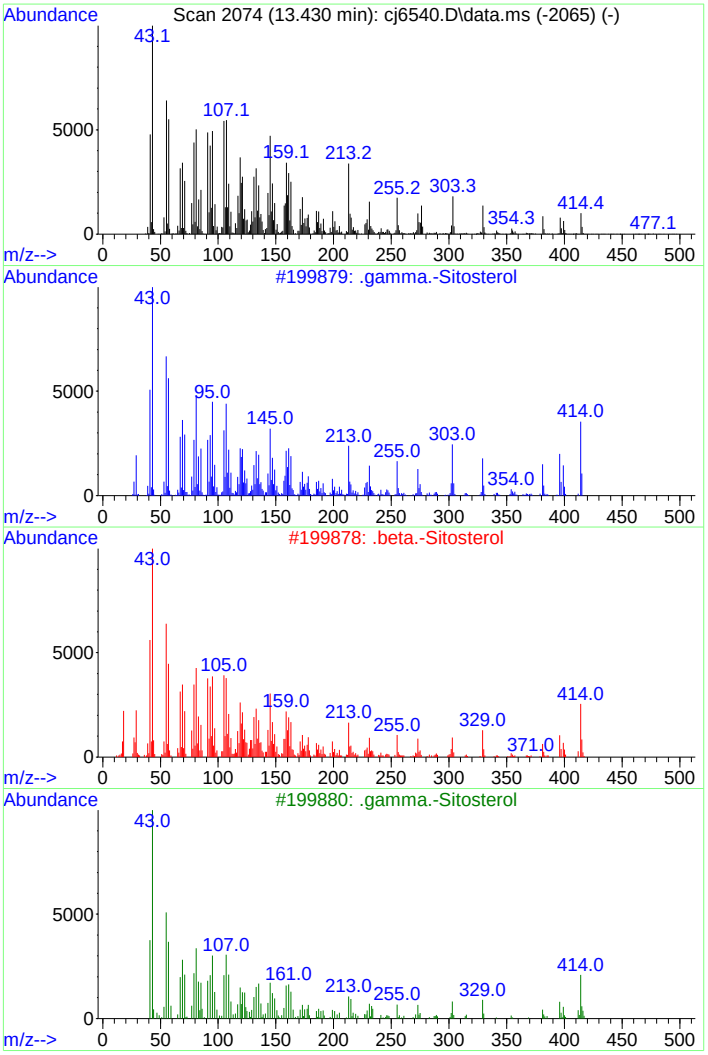
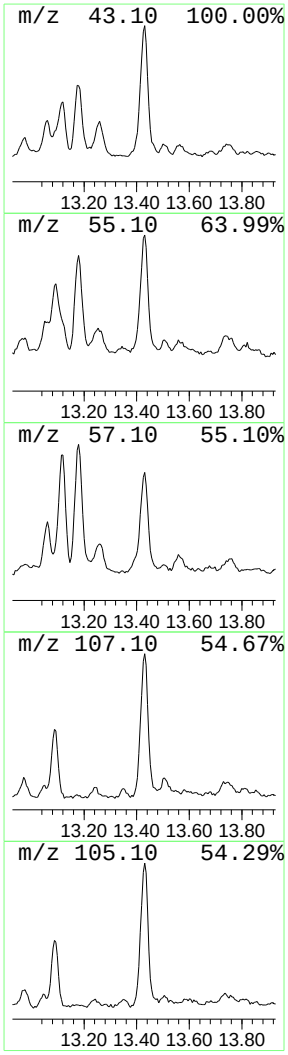
Peak Number 21 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.430	86.11 ppm	5688240	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
3	.gamma.-Sitosterol	414	C29H50O	000083-47-6	60
4	.beta.-Sitosterol	414	C29H50O	000083-46-5	55
5	Campesterol	400	C28H48O	000474-62-4	53





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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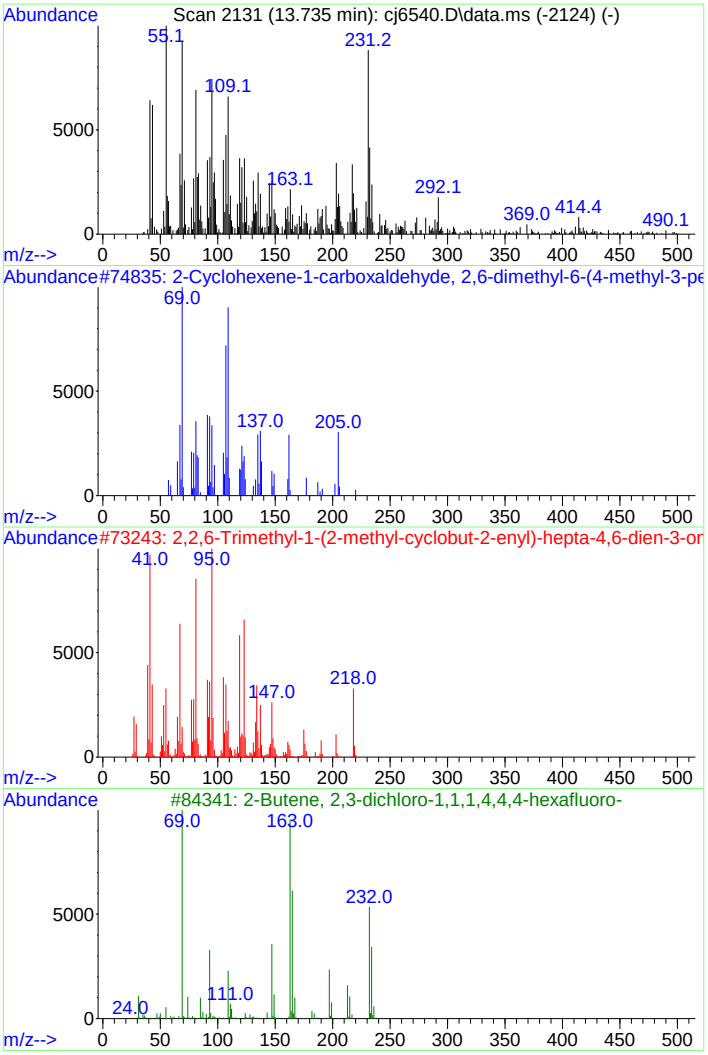
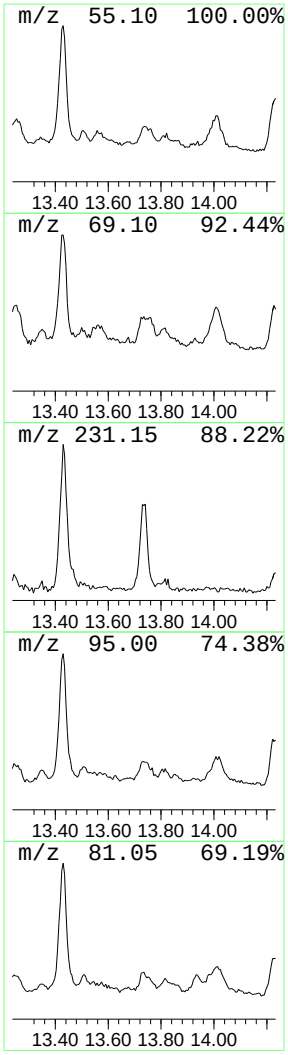
Peak Number 22 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.735	16.06 ppm	1060770	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Cyclohexene-1-carboxaldehyde, ...	220	C15H24O	056772-07-7	35
2	2,2,6-Trimethyl-1-(2-methyl-cycl...	218	C15H22O	1000188-72-8	25
3	2-Butene, 2,3-dichloro-1,1,1,4,4...	232	C4Cl2F6	000303-04-8	22
4	8,8-Dimethyl-2,3,8,9-tetrahydro-...	289	C14H15N3O2S	1000258-95-0	20
5	Urs-12-en-28-ol	426	C30H50O	010153-88-5	14





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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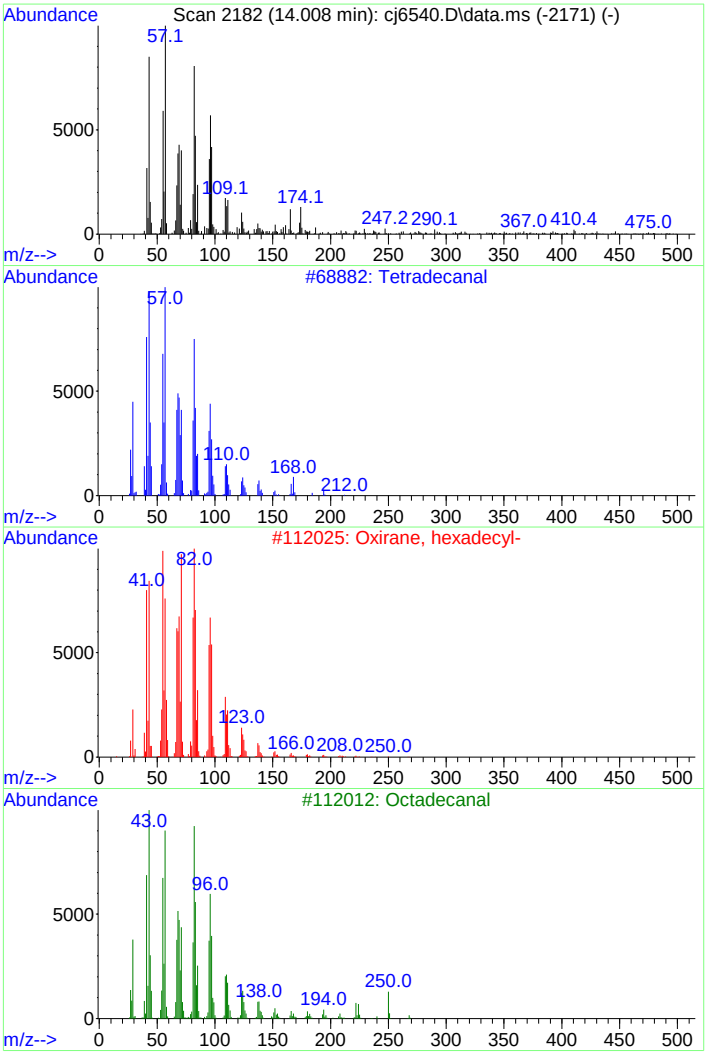
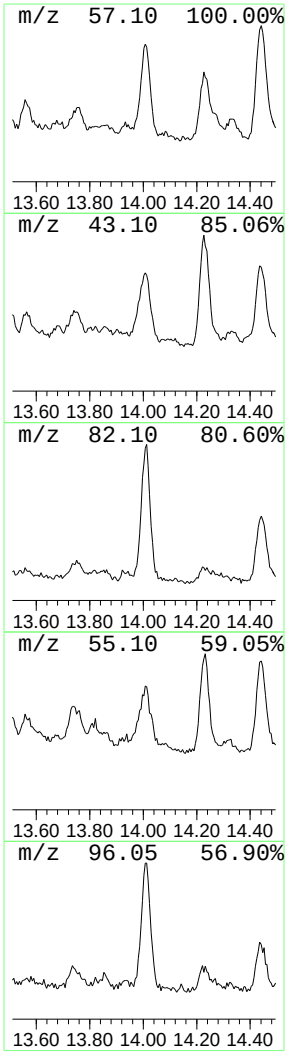
Peak Number 23 Unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.008	23.66 ppm	1563010	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecanal	212	C14H28O	000124-25-4	87
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	87
3	Octadecanal	268	C18H36O	000638-66-4	83
4	Hexadecanal	240	C16H32O	000629-80-1	72
5	1,19-Eicosadiene	278	C20H38	014811-95-1	50





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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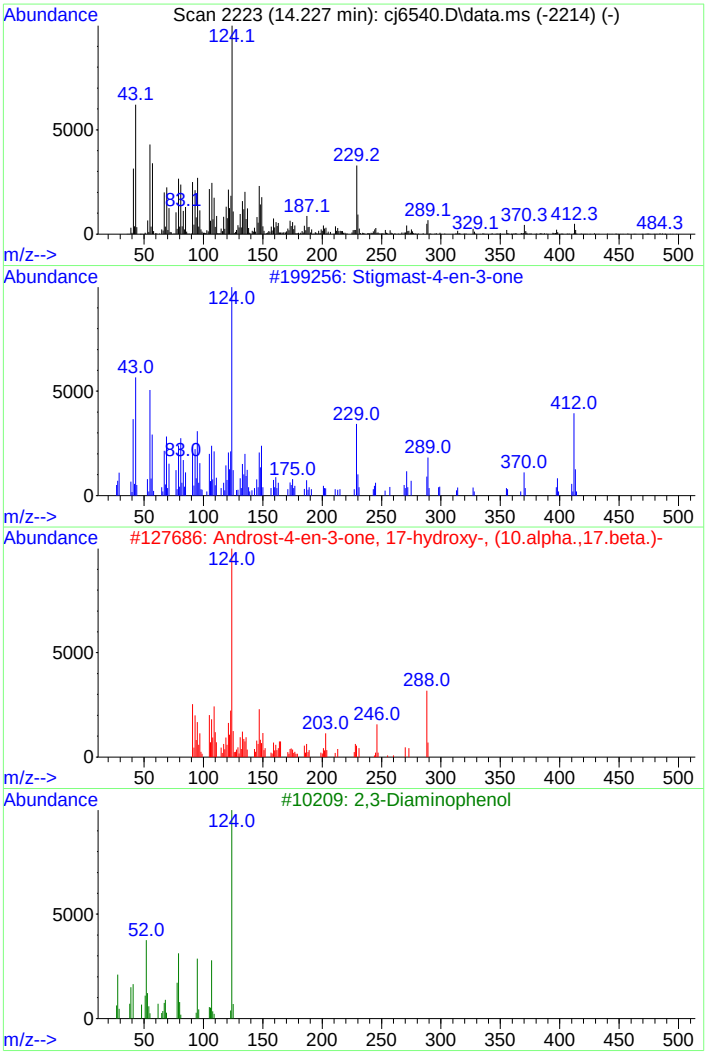
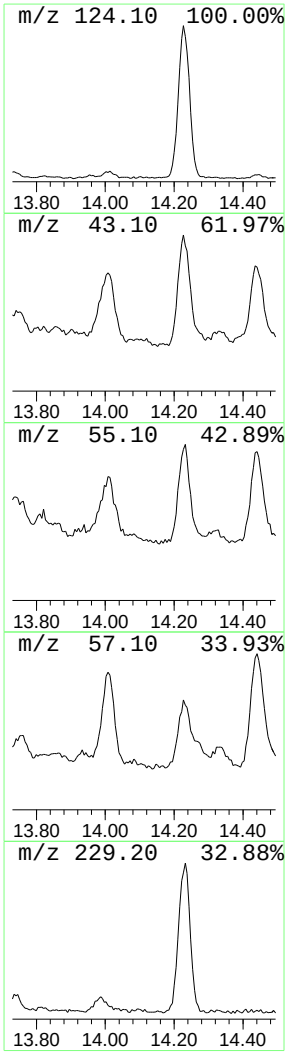
Peak Number 24 Unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.227	40.50 ppm	2675470	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	90
2	Androst-4-en-3-one, 17-hydroxy-,...	288	C19H28O2	000604-39-7	64
3	2,3-Diaminophenol	124	C6H8N2O	059649-56-8	47
4	1,4-Benzenediol, 2-methyl-	124	C7H8O2	000095-71-6	46
5	Testosterone	288	C19H28O2	000058-22-0	42





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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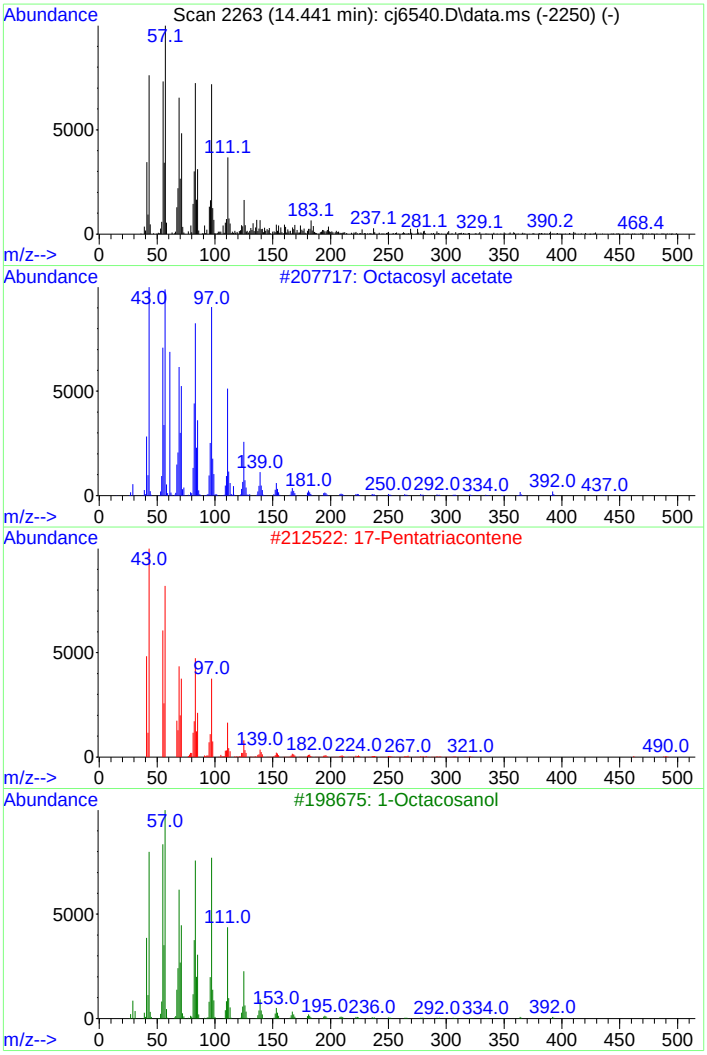
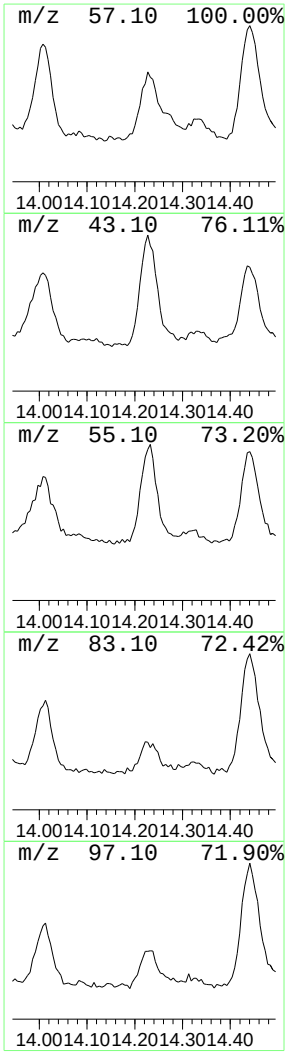
Peak Number 25 Octacosyl acetate Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.441	23.90 ppm	1578430	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosyl acetate	452	C30H60O2	018206-97-8	99
2	17-Pentatriacontene	491	C35H70	006971-40-0	91
3	1-Octacosanol	410	C28H58O	1000351-79-2	90
4	Cyclotetracosane	336	C24H48	000297-03-0	87
5	1-Docosene	308	C22H44	001599-67-3	81





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6540.D
Acq On : 10 May 2024 12:54 am
Operator : rocquans
Sample : jd87833-9
Misc : op54460,ecj297,30.7,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown acid	8.338	11.9	ppm	1072880	8	7.873	3592670	40.0
Unknown alcohol	9.050	30.3	ppm	2723050	8	7.873	3592670	40.0
Octadecanoic acid	9.124	11.6	ppm	1069080	9	10.365	3678290	40.0
Unknown acid	9.836	14.7	ppm	1346840	9	10.365	3678290	40.0
Unknown	10.071	12.1	ppm	1107920	9	10.365	3678290	40.0
Butanoic acid, ...	10.194	13.8	ppm	1265290	9	10.365	3678290	40.0
Unknown alcohol	10.274	13.7	ppm	1262580	9	10.365	3678290	40.0
Docosanoic acid	10.499	28.4	ppm	2616030	10	10.365	3678290	40.0
Unknown	10.906	22.0	ppm	2023570	10	10.365	3678290	40.0
Unknown acid	11.120	41.4	ppm	2734460	11	11.719	2642210	40.0
Unknown	11.205	10.7	ppm	706589	11	11.719	2642210	40.0
Alkane	11.515	59.5	ppm	3932250	11	11.719	2642210	40.0
Unknown	12.013	25.8	ppm	1703740	11	11.719	2642210	40.0
Unknown	12.130	13.6	ppm	895664	11	11.719	2642210	40.0
Alkane	12.216	54.3	ppm	3588810	11	11.719	2642210	40.0
Unknown	12.248	53.9	ppm	3560940	11	11.719	2642210	40.0
Unknown	12.366	11.3	ppm	748302	11	11.719	2642210	40.0
Unknown acid	12.537	11.0	ppm	725317	11	11.719	2642210	40.0
Unknown	13.088	75.9	ppm	5012010	11	11.719	2642210	40.0
Unknown	13.179	26.8	ppm	1767860	11	11.719	2642210	40.0
Unknown	13.430	86.1	ppm	5688240	11	11.719	2642210	40.0
Unknown	13.735	16.1	ppm	1060770	11	11.719	2642210	40.0
Unknown	14.008	23.7	ppm	1563010	11	11.719	2642210	40.0
Unknown	14.227	40.5	ppm	2675470	11	11.719	2642210	40.0
Octacosyl acetate	14.441	23.9	ppm	1578430	11	11.719	2642210	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jacky Takeuchi 05/10/24 22:07

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10 Inst : GCMSCJ
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: May 10 19:26:00 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

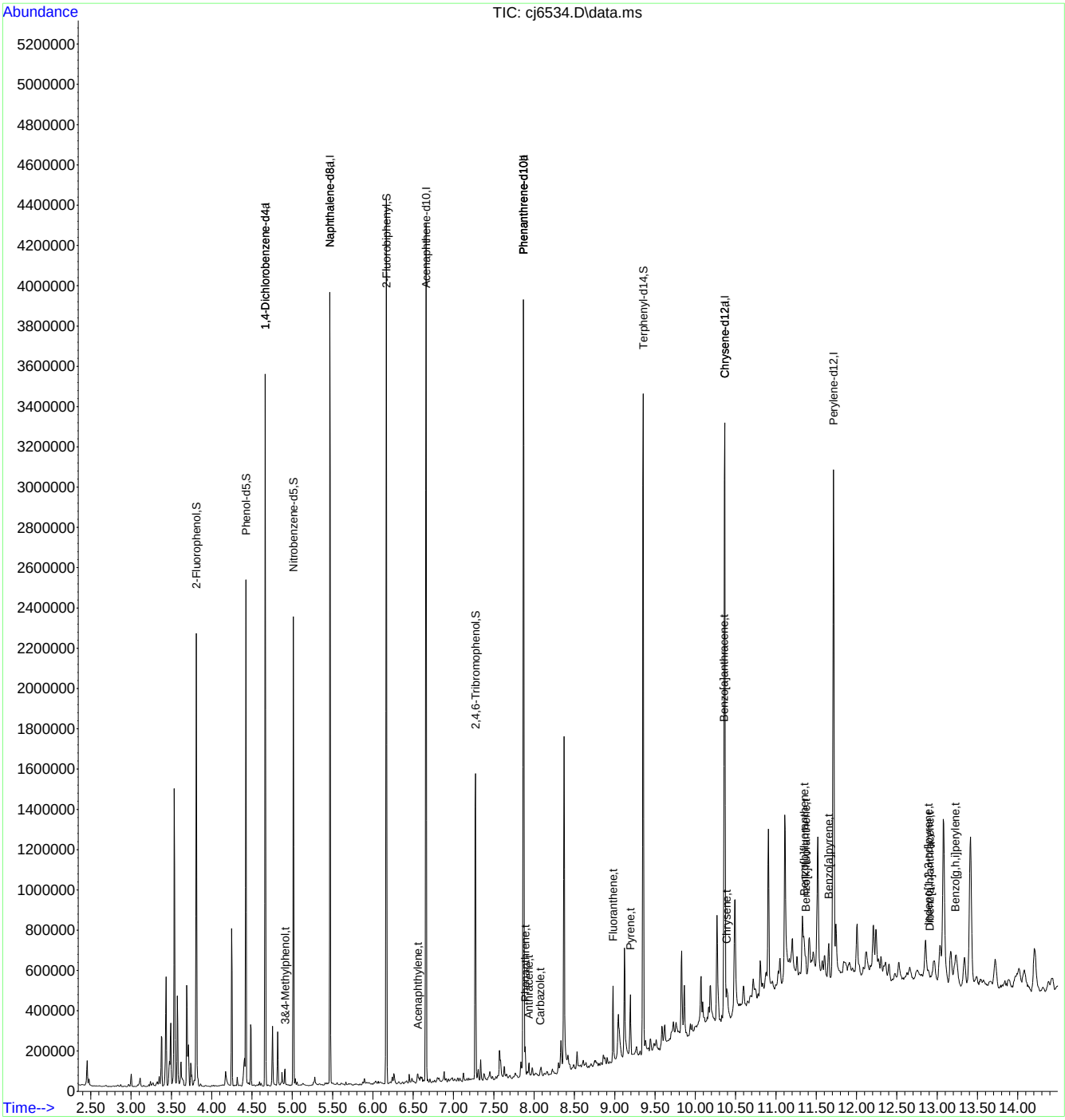
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.664	152	338801	40.00	ppm	0.00
24) Naphthalene-d8	5.466	136	1197453	40.00	ppm	0.00
46) Acenaphthene-d10	6.659	164	671880	40.00	ppm	0.00
69) Phenanthrene-d10	7.868	188	1193602	40.00	ppm	0.00
84) Chrysene-d12	10.366	240	852283	40.00	ppm	0.00
93) Perylene-d12	11.714	264	867275	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.664	152	338801	40.00	ppm	0.00
105) Phenanthrene-d10a	7.868	188	1193602	40.00	ppm	0.00
107) Naphthalene-d8a	5.466	136	1197453	40.00	ppm	0.00
109) Phenanthrene-d10b	7.868	188	1193602	40.00	ppm	0.00
112) Chrysene-d12a	10.366	240	852283	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.808	112	361784	37.15	ppm	0.01
Spiked Amount 50.000			Recovery = 74.30%			
8) Phenol-d5	4.423	99	495661	39.46	ppm	0.00
Spiked Amount 50.000			Recovery = 78.92%			
25) Nitrobenzene-d5	5.012	82	468916	38.24	ppm	0.00
Spiked Amount 50.000			Recovery = 76.48%			
51) 2-Fluorobiphenyl	6.167	172	866780	41.00	ppm	0.00
Spiked Amount 50.000			Recovery = 82.00%			
74) 2,4,6-Tribromophenol	7.274	330	127865	48.86	ppm	0.00
Spiked Amount 50.000			Recovery = 97.72%			
87) Terphenyl-d14	9.355	244	932555	44.29	ppm	0.00
Spiked Amount 50.000			Recovery = 88.58%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
21) 3&4-Methylphenol	4.910	108	11863	1.2271	ppm	94
56) Acenaphthylene	6.557	152	20423	0.7837	ppm	93
78) Phenanthrene	7.889	178	38965	1.3508	ppm	98
79) Anthracene	7.932	178	17738	0.6141	ppm	95
80) Carbazole	8.076	167	4961	0.1843	ppm	91
82) Fluoranthene	8.980	202	115079	3.6850	ppm	100
86) Pyrene	9.194	202	105909	3.6539	ppm	99
89) Benzo[a]anthracene	10.355	228	58026	2.1175	ppm	90
91) Chrysene	10.387	228	43240	1.7103	ppm	99
95) Benzo[b]fluoranthene	11.350	252	63666m	2.4301	ppm	
96) Benzo[k]fluoranthene	11.371	252	23513m	0.9974	ppm	
97) Benzo[a]pyrene	11.655	252	48134	2.2193	ppm	95
98) Indeno[1,2,3-cd]pyrene	12.890	276	34262	1.3067	ppm	95
100) Dibenz[a,h]anthracene	12.906	278	8449	0.4033	ppm	88
102) Benzo[g,h,i]perylene	13.227	276	32871	1.6133	ppm	97

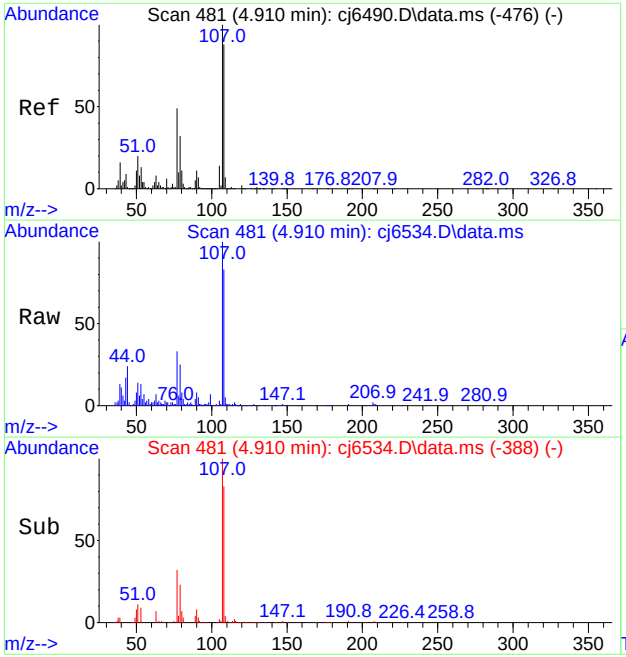
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10 Inst : GCMSCJ
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: May 10 19:26:00 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

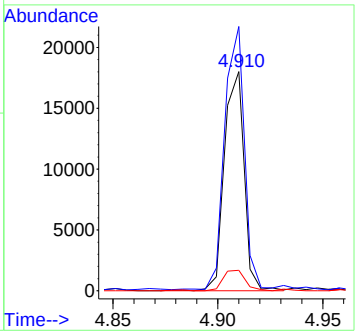


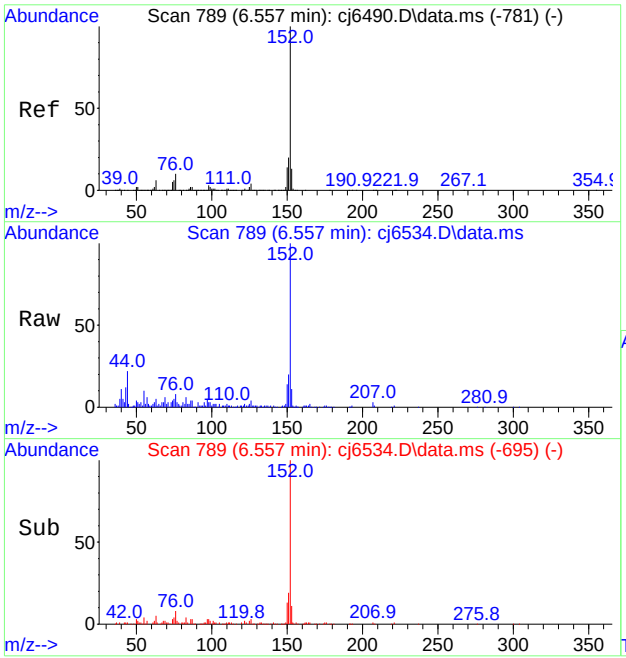


#21
3&4-Methylphenol
Concen: 1.2271 ppm
RT: 4.910 min Scan# 481
Delta R.T. 0.000 min
Lab File: cj6534.D
Acq: 09 May 2024 11:00 pm

Tgt Ion:108 Resp: 11863

Ion	Ratio	Lower	Upper
108	100		
107	119.2	83.2	143.2
90	9.1	0.0	42.4

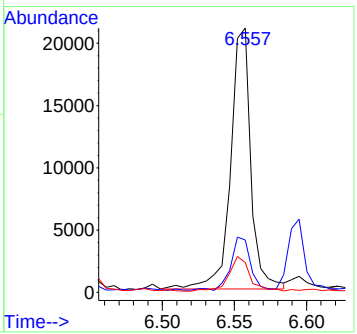


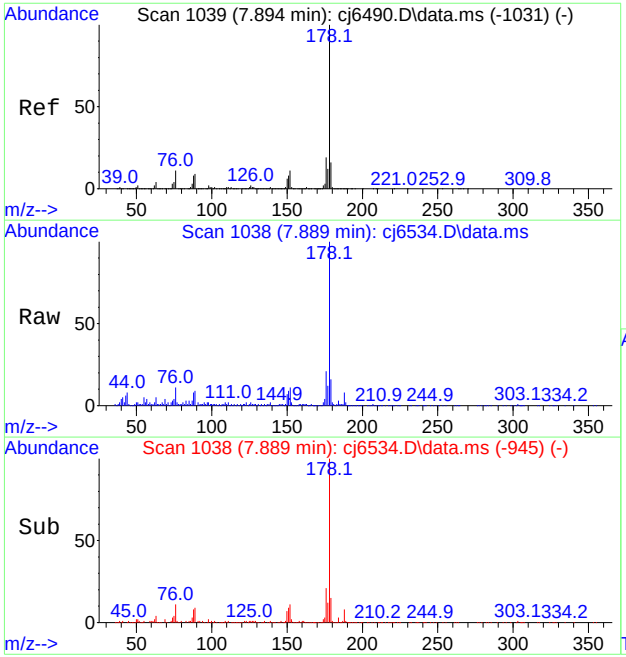


#56
Acenaphthylene
Concen: 0.7837 ppm
RT: 6.557 min Scan# 789
Delta R.T. 0.000 min
Lab File: cj6534.D
Acq: 09 May 2024 11:00 pm

Tgt Ion:152 Resp: 20423

Ion	Ratio	Lower	Upper
152	100		
151	16.4	0.0	50.3
153	11.7	0.0	43.4

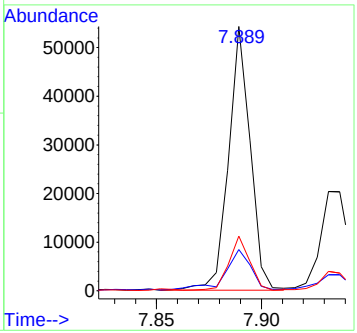


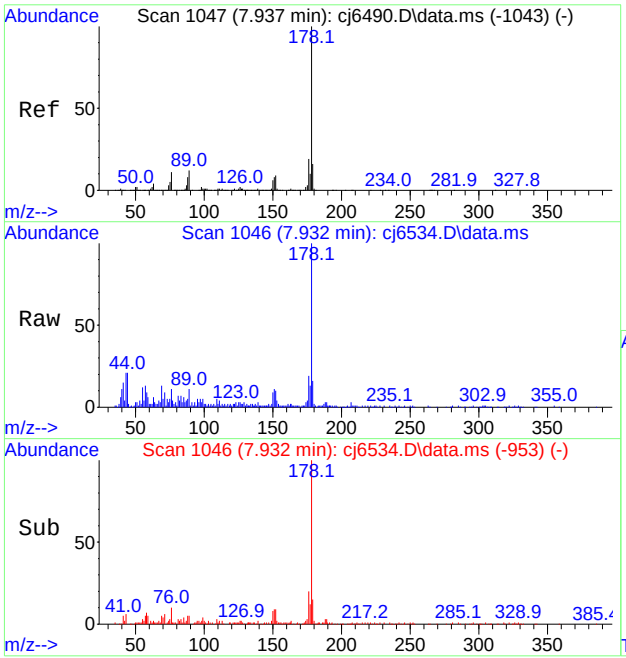


#78
Phenanthrene
Concen: 1.3508 ppm
RT: 7.889 min Scan# 1038
Delta R.T. -0.005 min
Lab File: cj6534.D
Acq: 09 May 2024 11:00 pm

Tgt Ion:178 Resp: 38965

Ion	Ratio	Lower	Upper
178	100		
179	15.3	0.0	45.5
176	20.3	0.0	49.2

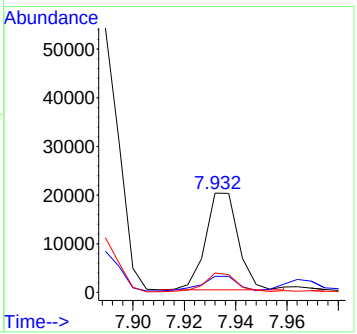


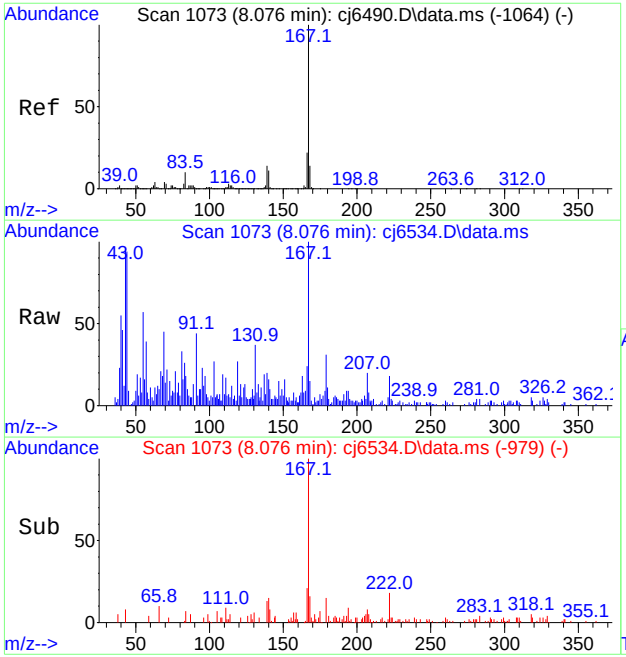


#79
Anthracene
Concen: 0.6141 ppm
RT: 7.932 min Scan# 1046
Delta R.T. -0.005 min
Lab File: cj6534.D
Acq: 09 May 2024 11:00 pm

Tgt Ion:178 Resp: 17738

Ion	Ratio	Lower	Upper
178	100		
179	11.7	0.0	46.1
176	18.5	0.0	48.7

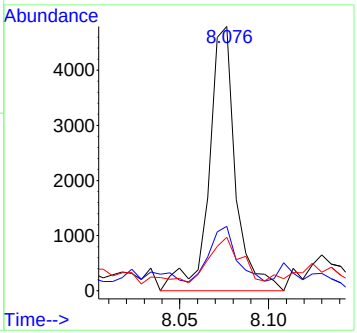


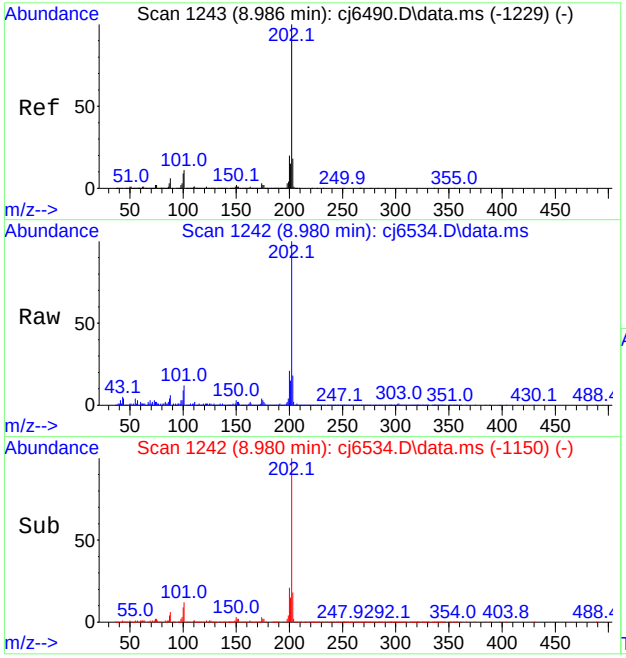


#80
Carbazole
Concen: 0.1843 ppm
RT: 8.076 min Scan# 1073
Delta R.T. 0.000 min
Lab File: cj6534.D
Acq: 09 May 2024 11:00 pm

Tgt Ion:167 Resp: 4961

Ion	Ratio	Lower	Upper
167	100		
166	16.0	0.0	51.7
139	15.4	0.0	43.8

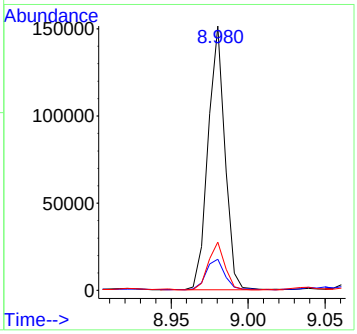


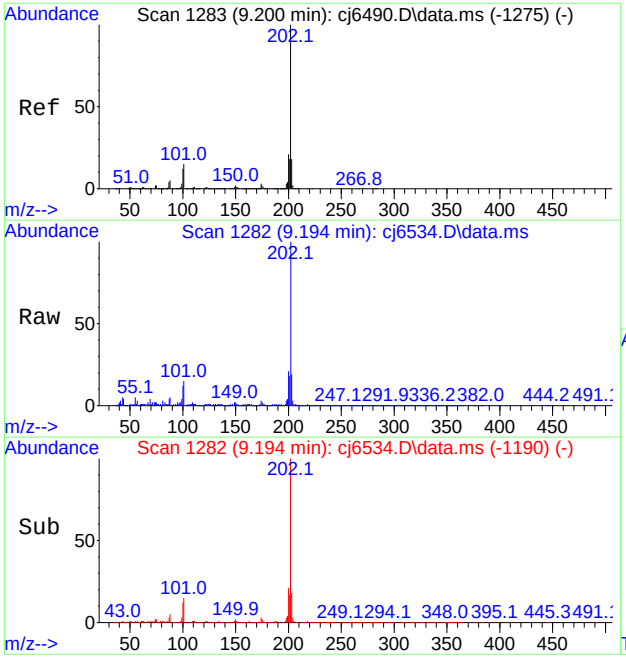


#82
Fluoranthene
Concen: 3.6850 ppm
RT: 8.980 min Scan# 1242
Delta R.T. -0.006 min
Lab File: cj6534.D
Acq: 09 May 2024 11:00 pm

Tgt Ion:202 Resp: 115079

Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	41.4
203	17.8	0.0	47.6

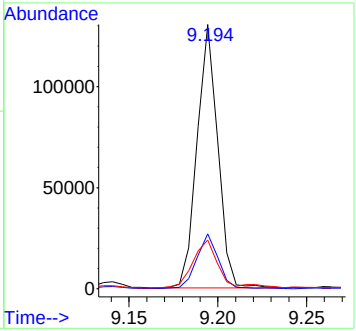


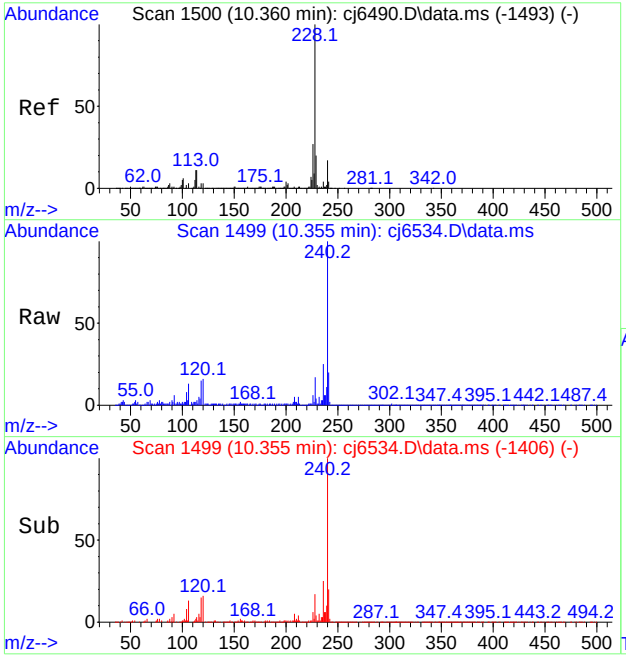


#86
Pyrene
Concen: 3.6539 ppm
RT: 9.194 min Scan# 1282
Delta R.T. -0.006 min
Lab File: cj6534.D
Acq: 09 May 2024 11:00 pm

Tgt Ion:202 Resp: 105909

Ion	Ratio	Lower	Upper
202	100		
200	20.7	0.0	51.4
203	18.1	0.0	47.8

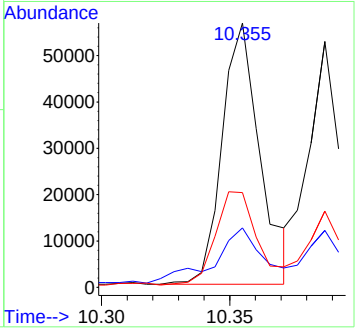


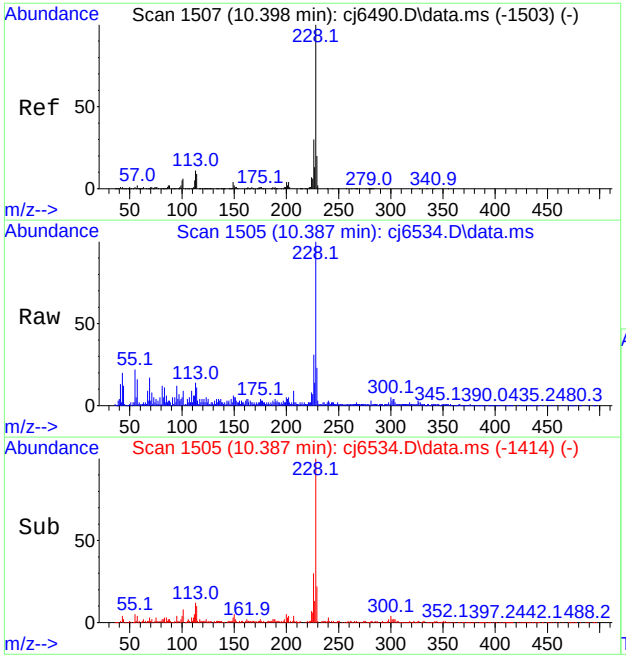


#89
Benzo[a]anthracene
Concen: 2.1175 ppm
RT: 10.355 min Scan# 1499
Delta R.T. -0.005 min
Lab File: cj6534.D
Acq: 09 May 2024 11:00 pm

Tgt Ion:228 Resp: 58026

Ion	Ratio	Lower	Upper
228	100		
229	19.4	0.0	49.8
226	35.7	0.0	57.1

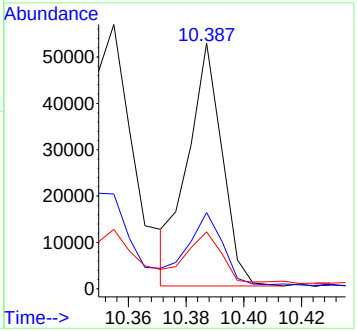


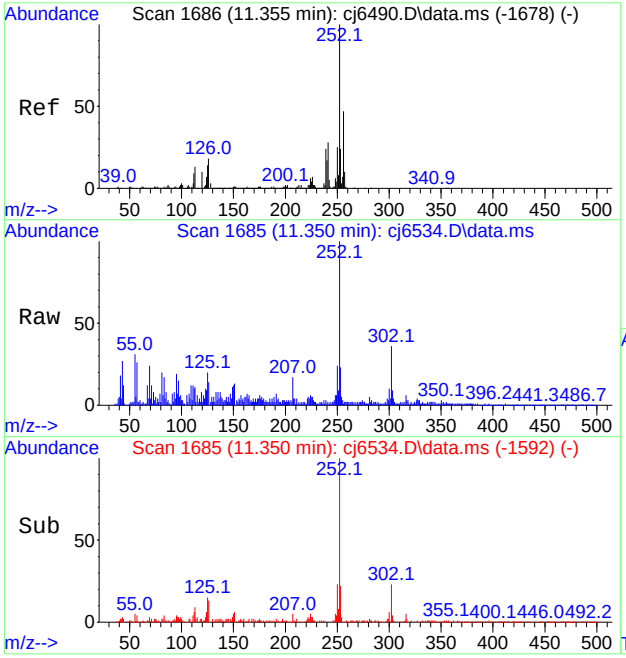


#91
Chrysene
Concen: 1.7103 ppm
RT: 10.387 min Scan# 1505
Delta R.T. -0.011 min
Lab File: cj6534.D
Acq: 09 May 2024 11:00 pm

Tgt Ion:228 Resp: 43240

Ion	Ratio	Lower	Upper
228	100		
226	29.6	0.0	59.9
229	20.3	0.0	49.8

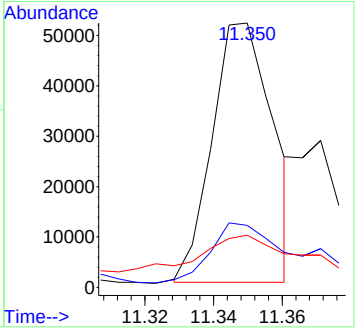


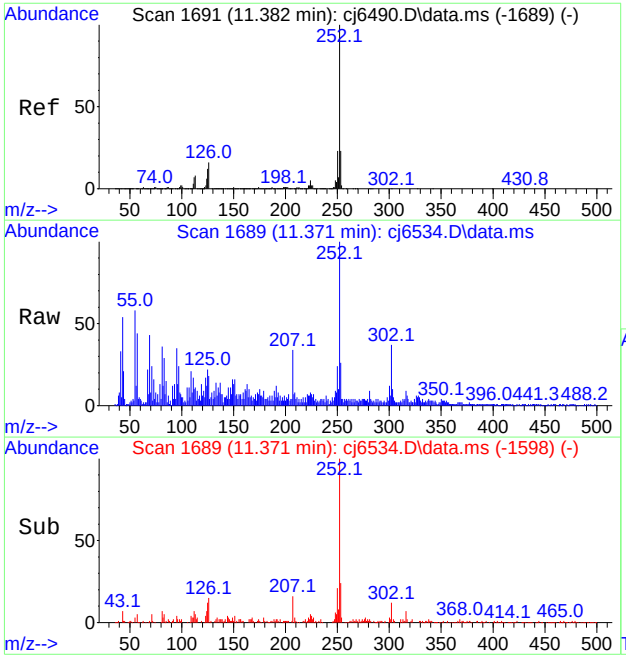


#95
Benzo[b]fluoranthene
Concen: 2.4301 ppm m
RT: 11.350 min Scan# 1685
Delta R.T. -0.005 min
Lab File: cj6534.D
Acq: 09 May 2024 11:00 pm

Tgt Ion:252 Resp: 63666

Ion	Ratio	Lower	Upper
252	100		
253	23.4	0.0	54.7
125	19.7	0.0	44.2

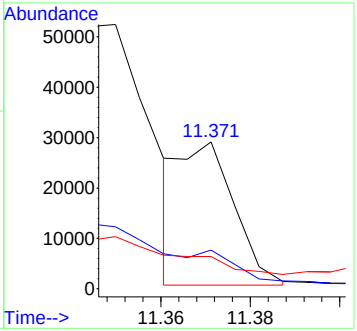


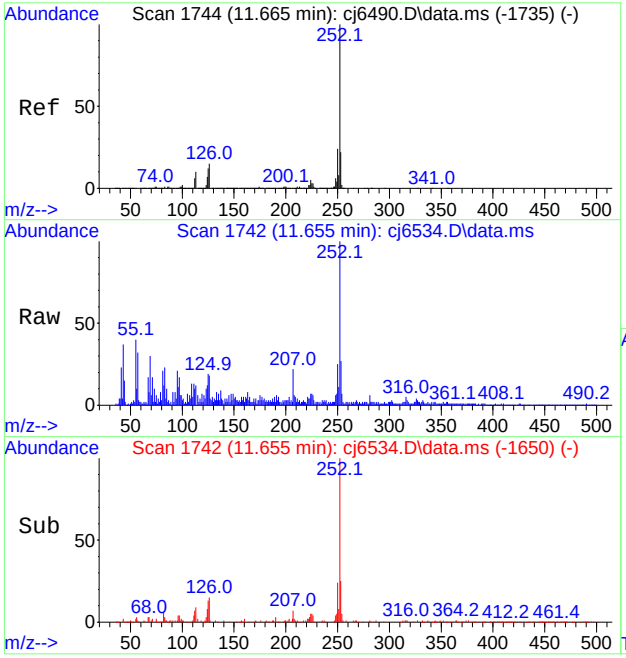


#96
Benzo[k]fluoranthene
Concen: 0.9974 ppm m
RT: 11.371 min Scan# 1689
Delta R.T. -0.011 min
Lab File: cj6534.D
Acq: 09 May 2024 11:00 pm

Tgt Ion:252 Resp: 23513

Ion	Ratio	Lower	Upper
252	100		
253	26.3	0.0	52.6
125	22.0	0.0	42.4

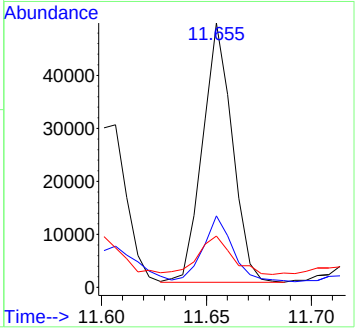


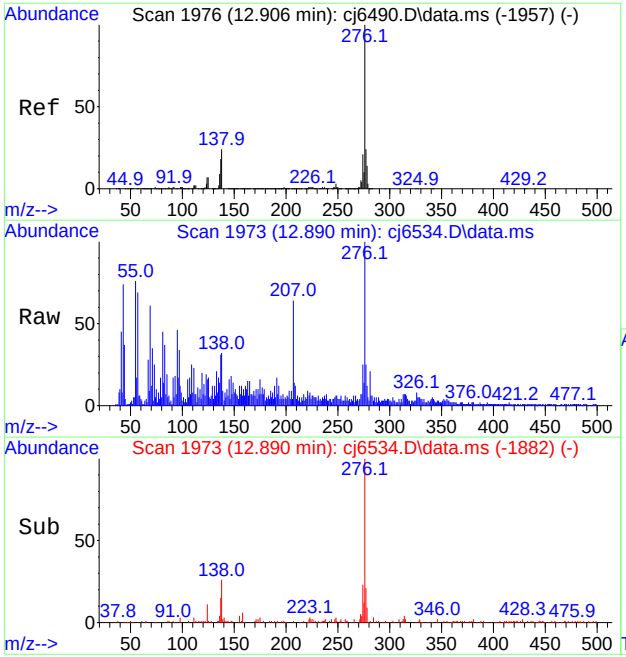


#97
Benzo[a]pyrene
Concen: 2.2193 ppm
RT: 11.655 min Scan# 1742
Delta R.T. -0.010 min
Lab File: cj6534.D
Acq: 09 May 2024 11:00 pm

Tgt Ion:252 Resp: 48134

Ion	Ratio	Lower	Upper
252	100		
253	24.2	0.0	51.9
125	14.2	0.0	42.1

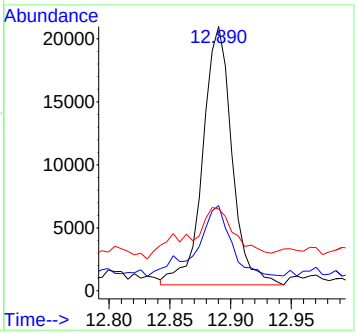


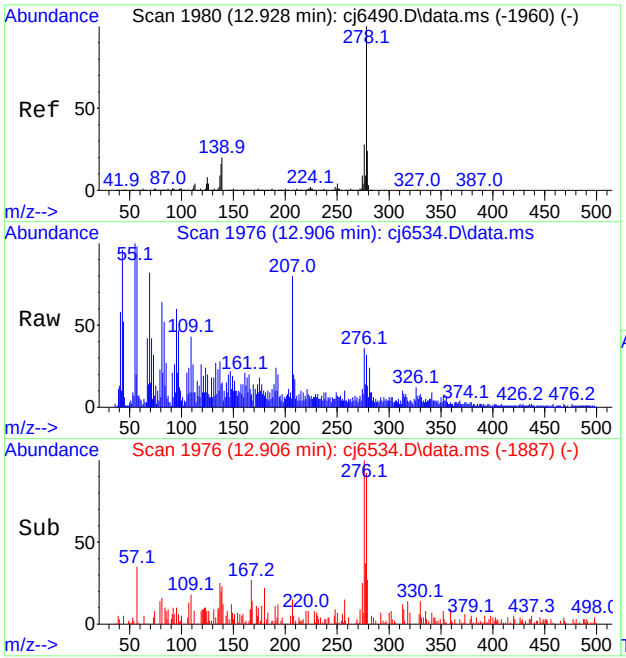


#98
Indeno[1,2,3-cd]pyrene
Concen: 1.3067 ppm
RT: 12.890 min Scan# 1973
Delta R.T. -0.016 min
Lab File: cj6534.D
Acq: 09 May 2024 11:00 pm

Tgt Ion:276 Resp: 34262

Ion	Ratio	Lower	Upper
276	100		
138	26.0	0.0	54.2
137	15.0	0.0	47.9

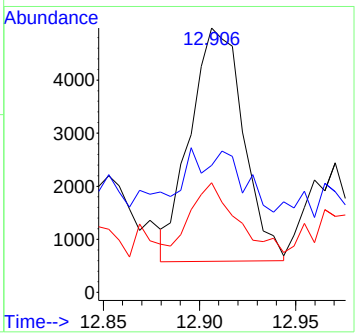


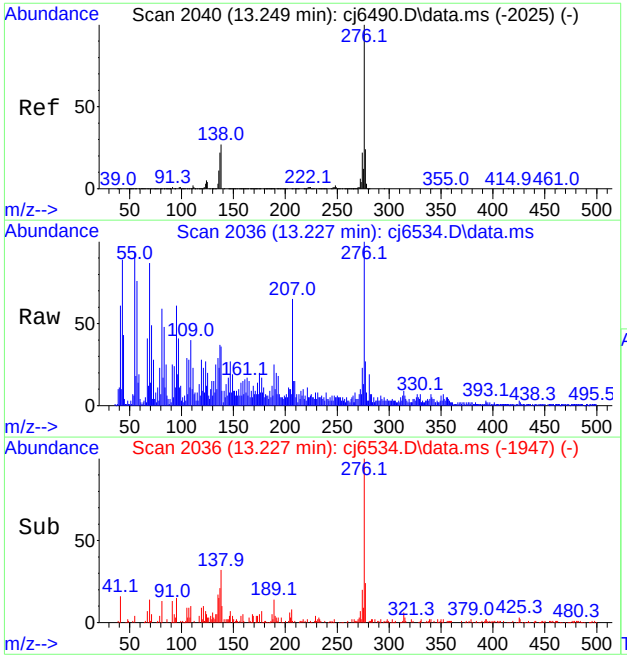


#100
Dibenz[a,h]anthracene
Concen: 0.4033 ppm
RT: 12.906 min Scan# 1976
Delta R.T. -0.022 min
Lab File: cj6534.D
Acq: 09 May 2024 11:00 pm

Tgt Ion:278 Resp: 8449

Ion	Ratio	Lower	Upper
278	100		
139	14.6	0.0	49.8
279	30.5	0.0	54.1

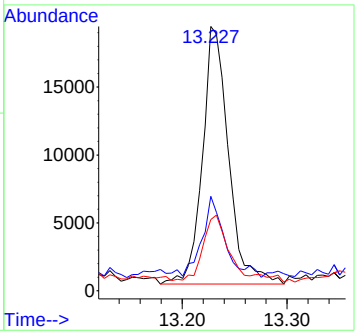




#102
Benzo[g,h,i]perylene
Concen: 1.6133 ppm
RT: 13.227 min Scan# 2036
Delta R.T. -0.022 min
Lab File: cj6534.D
Acq: 09 May 2024 11:00 pm

Tgt Ion:276 Resp: 32871

Ion	Ratio	Lower	Upper
276	100		
138	29.2	0.0	56.7
277	23.4	0.0	54.1



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6534.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.172	339	343	354	rVB	71556	88569	2.83%	0.174%
2	4.247	354	357	361	rVB	782218	504180	16.12%	0.989%
3	4.423	381	390	396	rBV	2514111	1601157	51.18%	3.142%
4	4.482	396	401	407	rVB	303302	220364	7.04%	0.432%
5	4.664	431	435	440	rBV	3536208	2080239	66.50%	4.082%
6	4.755	447	452	461	rBV	297840	216464	6.92%	0.425%
7	4.819	461	464	469	rBV	265538	168639	5.39%	0.331%
8	4.873	469	474	478	rBV2	63661	52427	1.68%	0.103%
9	4.910	478	481	488	rVB	81095	61754	1.97%	0.121%
10	5.012	493	500	504	rBV	2329725	1359479	43.46%	2.667%
11	5.279	540	550	557	rBV6	43272	60703	1.94%	0.119%
12	5.466	580	585	590	rBV	3931562	2560914	81.87%	5.025%
13	6.167	710	716	720	rBV	4393666	2616115	83.63%	5.133%
14	6.258	731	733	740	rVB2	51889	56216	1.80%	0.110%
15	6.557	784	789	793	rBV3	48076	71132	2.27%	0.140%
16	6.659	801	808	815	rVB	4263888	2936178	93.86%	5.761%
17	7.274	917	923	926	rBV	1517432	1192342	38.12%	2.340%
18	7.338	932	935	940	rVB	102950	75529	2.41%	0.148%
19	7.451	950	956	960	rBV6	42724	59784	1.91%	0.117%
20	7.574	972	979	986	rBV2	139072	215335	6.88%	0.423%
21	7.766	1007	1015	1022	rBV9	28821	63008	2.01%	0.124%
22	7.836	1022	1028	1030	rBV	79799	80707	2.58%	0.158%
23	7.868	1030	1034	1041	rVV	3849034	3128199	100.00%	6.138%
24	7.937	1041	1047	1050	rVB	61848	68301	2.18%	0.134%
25	8.087	1069	1075	1079	rBV5	43594	57325	1.83%	0.112%
26	8.301	1111	1115	1117	rBV2	57476	60913	1.95%	0.120%
27	8.333	1117	1121	1124	rBV2	137831	129200	4.13%	0.254%
28	8.371	1124	1128	1135	rVV	1627852	1359483	43.46%	2.667%
29	8.419	1135	1137	1145	rVB	70283	93366	2.98%	0.183%
30	8.531	1155	1158	1162	rBV2	85553	92246	2.95%	0.181%
31	8.857	1217	1219	1226	rBV3	49020	78336	2.50%	0.154%
32	8.980	1238	1242	1248	rBV	382669	330742	10.57%	0.649%
33	9.045	1248	1254	1264	rVV3	224906	408407	13.06%	0.801%
34	9.119	1264	1268	1277	rVV	543820	584638	18.69%	1.147%
35	9.194	1277	1282	1287	rVB	298721	271667	8.68%	0.533%
36	9.269	1291	1296	1301	rVB6	42951	57877	1.85%	0.114%
37	9.355	1307	1312	1316	rBV	3283223	2804468	89.65%	5.503%
38	9.446	1326	1329	1332	rBV	59975	60728	1.94%	0.119%
39	9.515	1339	1342	1350	rVB2	52267	62962	2.01%	0.124%
40	9.585	1350	1355	1358	rBV3	118397	153825	4.92%	0.302%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.622	1358	1362	1366	rVB3	83442	93464	2.99%	0.183%
42	9.729	1371	1382	1385	rBV7	94771	195637	6.25%	0.384%
43	9.761	1385	1388	1397	rVB4	53352	68557	2.19%	0.135%
44	9.831	1397	1401	1404	rBV	408178	395712	12.65%	0.776%
45	9.863	1404	1407	1415	rVB	252931	265898	8.50%	0.522%
46	9.938	1415	1421	1423	rBV6	62622	65367	2.09%	0.128%
47	10.072	1436	1446	1448	rBV	252468	314607	10.06%	0.617%
48	10.093	1448	1450	1456	rVB5	101644	101760	3.25%	0.200%
49	10.189	1457	1468	1478	rBV7	178253	336597	10.76%	0.660%
50	10.269	1478	1483	1492	rVB	528431	580189	18.55%	1.138%
51	10.366	1492	1501	1504	rBV	2973618	2845036	90.95%	5.582%
52	10.494	1515	1525	1533	rBV3	585848	935639	29.91%	1.836%
53	10.596	1540	1544	1551	rVB3	99745	132575	4.24%	0.260%
54	10.681	1557	1560	1563	rBV5	38361	61705	1.97%	0.121%
55	10.719	1564	1567	1570	rBV3	90120	105480	3.37%	0.207%
56	10.804	1576	1583	1587	rBV2	186236	249033	7.96%	0.489%
57	10.836	1587	1589	1592	rVV4	45581	54619	1.75%	0.107%
58	10.906	1592	1602	1608	rVV	794543	934192	29.86%	1.833%
59	11.050	1617	1629	1633	rBV3	152004	303858	9.71%	0.596%
60	11.109	1633	1640	1648	rBV2	837462	1152934	36.86%	2.262%
61	11.205	1653	1658	1665	rVV5	229762	515177	16.47%	1.011%
62	11.259	1665	1668	1672	rVV	135848	187931	6.01%	0.369%
63	11.296	1672	1675	1677	rVV4	54715	78419	2.51%	0.154%
64	11.328	1677	1681	1692	rVV3	328593	763531	24.41%	1.498%
65	11.414	1692	1697	1701	rVV4	213846	375271	12.00%	0.736%
66	11.462	1703	1706	1711	rVV5	139051	258875	8.28%	0.508%
67	11.521	1711	1717	1723	rVV2	703699	1034909	33.08%	2.031%
68	11.575	1723	1727	1730	rVV3	83398	126498	4.04%	0.248%
69	11.607	1730	1733	1738	rVB	106998	129084	4.13%	0.253%
70	11.655	1738	1742	1746	rVB	170149	180175	5.76%	0.354%
71	11.714	1746	1753	1757	rBV	2522027	2643235	84.50%	5.186%
72	11.746	1757	1759	1771	rVV	245104	314336	10.05%	0.617%
73	11.842	1774	1777	1785	rVV8	56082	141309	4.52%	0.277%
74	11.911	1786	1790	1795	rVB8	41813	71522	2.29%	0.140%
75	12.008	1803	1808	1818	rVB	254647	399370	12.77%	0.784%
76	12.120	1819	1829	1836	rBV	113135	287436	9.19%	0.564%
77	12.211	1836	1846	1849	rBV2	223265	356391	11.39%	0.699%
78	12.238	1849	1851	1856	rVB	161044	184666	5.90%	0.362%
79	12.302	1861	1863	1867	rVV2	114660	147370	4.71%	0.289%
80	12.361	1867	1874	1878	rVV10	90429	213679	6.83%	0.419%
81	12.404	1878	1882	1887	rVB4	83951	121240	3.88%	0.238%
82	12.527	1900	1905	1912	rVB6	84155	142394	4.55%	0.279%
83	12.660	1926	1930	1940	rVB5	59686	112188	3.59%	0.220%
84	12.751	1941	1947	1956	rBV5	41611	120714	3.86%	0.237%
85	12.858	1960	1967	1977	rVV4	190522	398894	12.75%	0.783%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.965	1980	1987	1994	rVB4	96492	214319	6.85%	0.421%
87	13.035	1994	2000	2003	rBV7	172825	296568	9.48%	0.582%
88	13.077	2003	2008	2019	rVB4	813008	1527809	48.84%	2.998%
89	13.168	2019	2025	2030	rBV5	156182	298834	9.55%	0.586%
90	13.238	2030	2038	2048	rVB6	156689	470431	15.04%	0.923%
91	13.340	2049	2057	2062	rBV10	140769	254411	8.13%	0.499%
92	13.414	2062	2071	2080	rBV2	725907	1319814	42.19%	2.590%
93	13.489	2082	2085	2090	rVB7	42757	62705	2.00%	0.123%
94	13.719	2122	2128	2138	rVB7	144975	316518	10.12%	0.621%
95	13.885	2156	2159	2167	rVB10	38159	77561	2.48%	0.152%
96	14.014	2169	2183	2190	rBV10	94952	368614	11.78%	0.723%
97	14.083	2190	2196	2212	rVB10	108832	350895	11.22%	0.688%
98	14.206	2212	2219	2232	rBV5	215146	536530	17.15%	1.053%
99	14.383	2245	2252	2255	rBV9	49728	94988	3.04%	0.186%
100	14.420	2255	2259	2266	rVB8	56885	133874	4.28%	0.263%

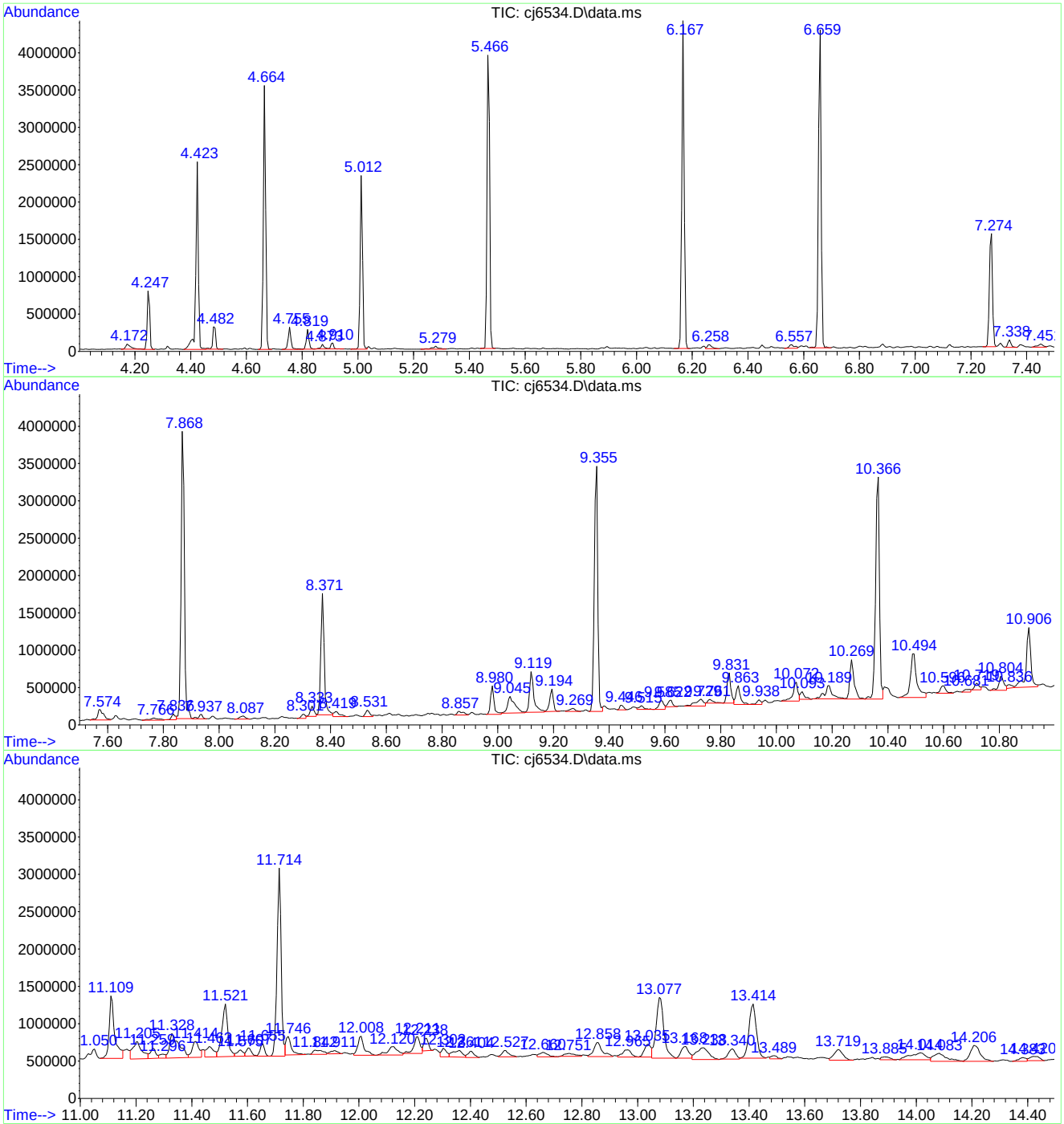
Sum of corrected areas: 50965262

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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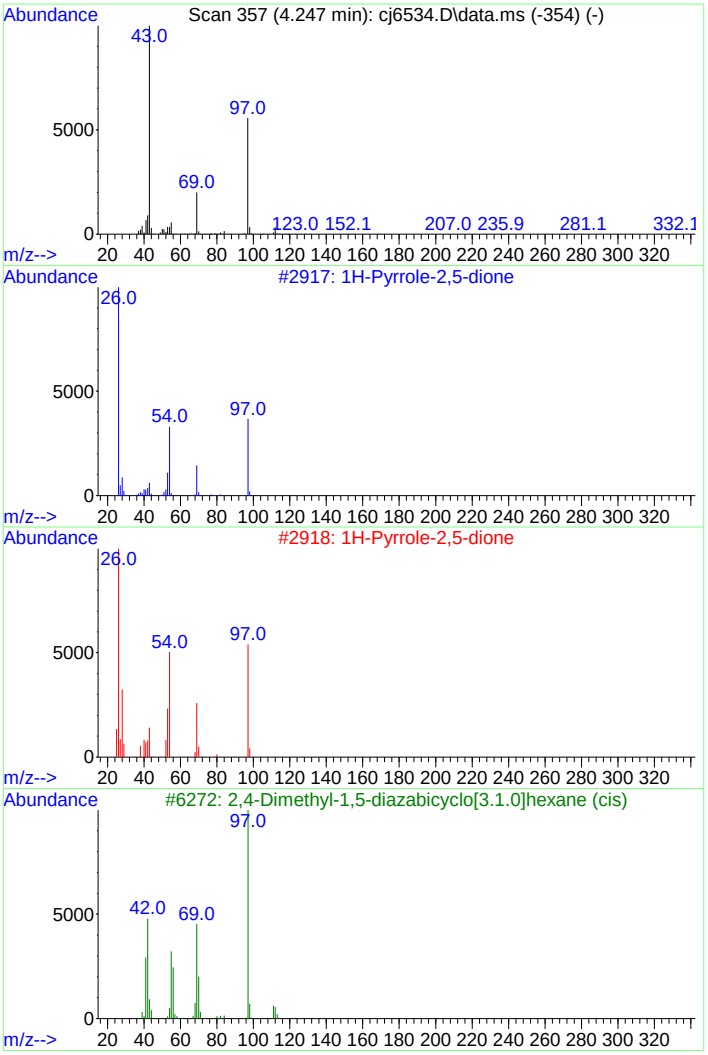
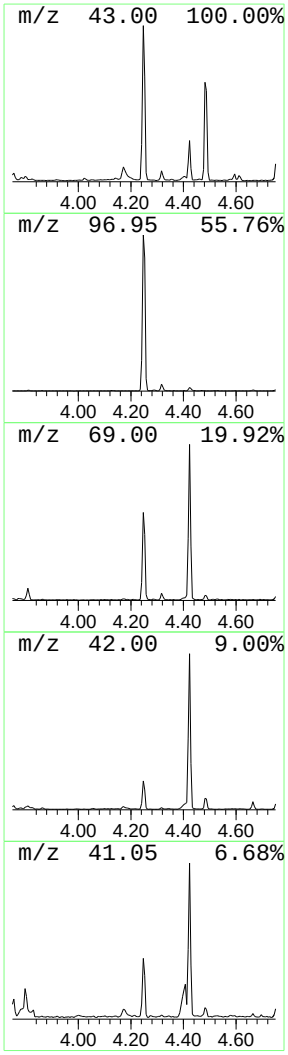
Peak Number 1 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.247	9.69 ppm	504180	1,4-Dichlorobenzene-d4a	4.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	53
2	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	28
3	2,4-Dimethyl-1,5-diazabicyclo[3....	112	C6H12N2	100463-01-2	25
4	5-Hexen-2-one	98	C6H10O	000109-49-9	10
5	2,4-Dimethyl-1,5-diazabicyclo[3....	112	C6H12N2	1000283-20-9	9





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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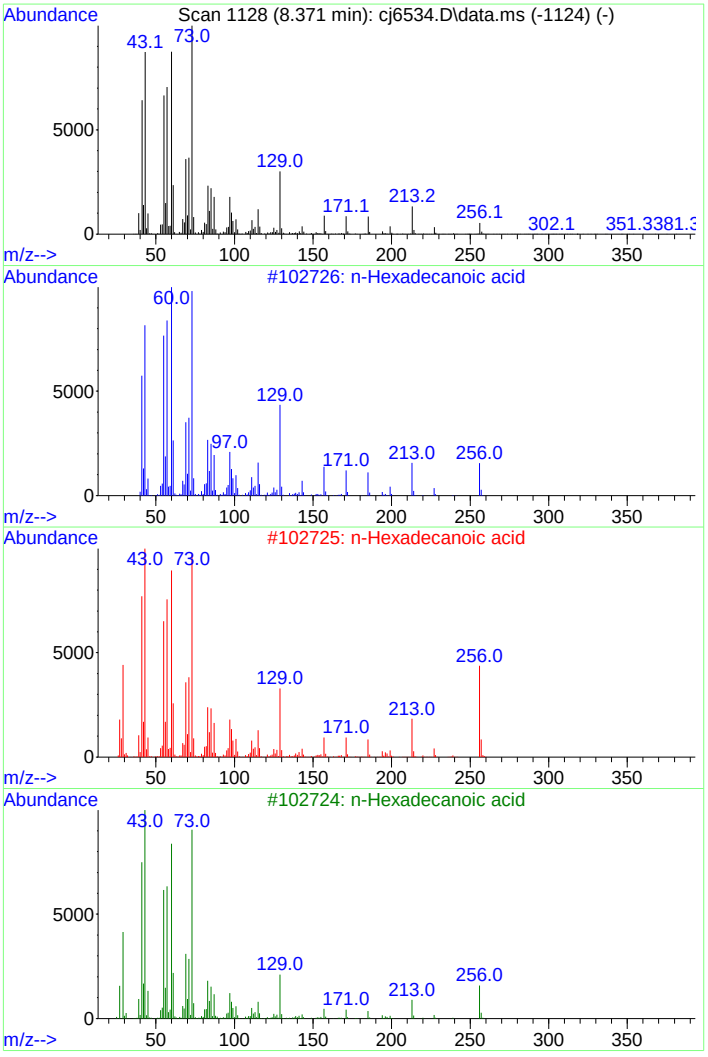
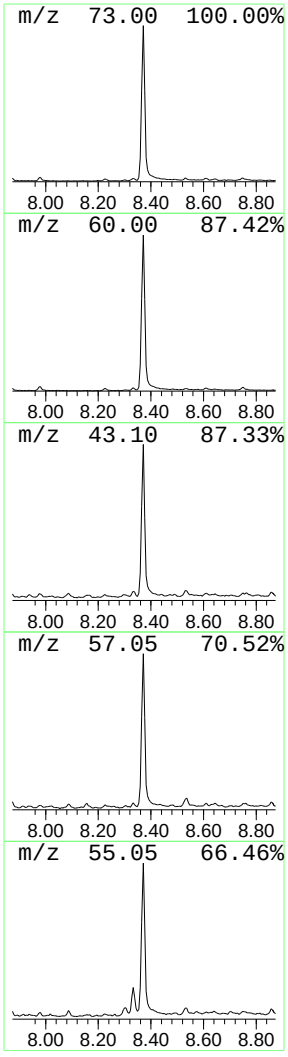
Peak Number 2 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.371	17.38 ppm	1359480	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	95
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	93
5	Tridecanoic acid	214	C13H26O2	000638-53-9	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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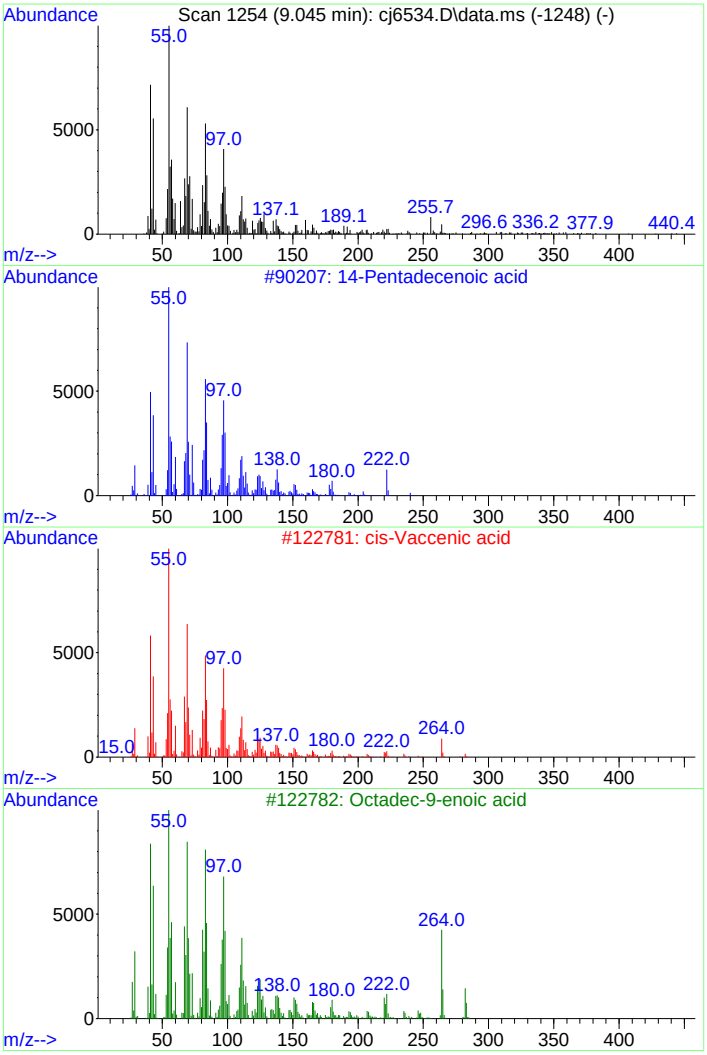
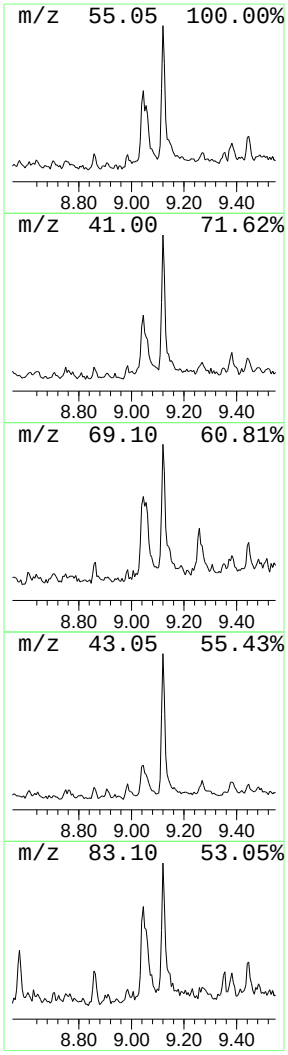
Peak Number 3 Unknown acid Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.045	5.22 ppm	408407	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	14-Pentadecenoic acid	240	C15H28O2	017351-34-7	91
2	cis-Vaccenic acid	282	C18H34O2	000506-17-2	87
3	Octadec-9-enoic acid	282	C18H34O2	1000190-13-7	87
4	trans-13-Octadecenoic acid	282	C18H34O2	000693-71-0	83
5	Oleic Acid	282	C18H34O2	000112-80-1	83





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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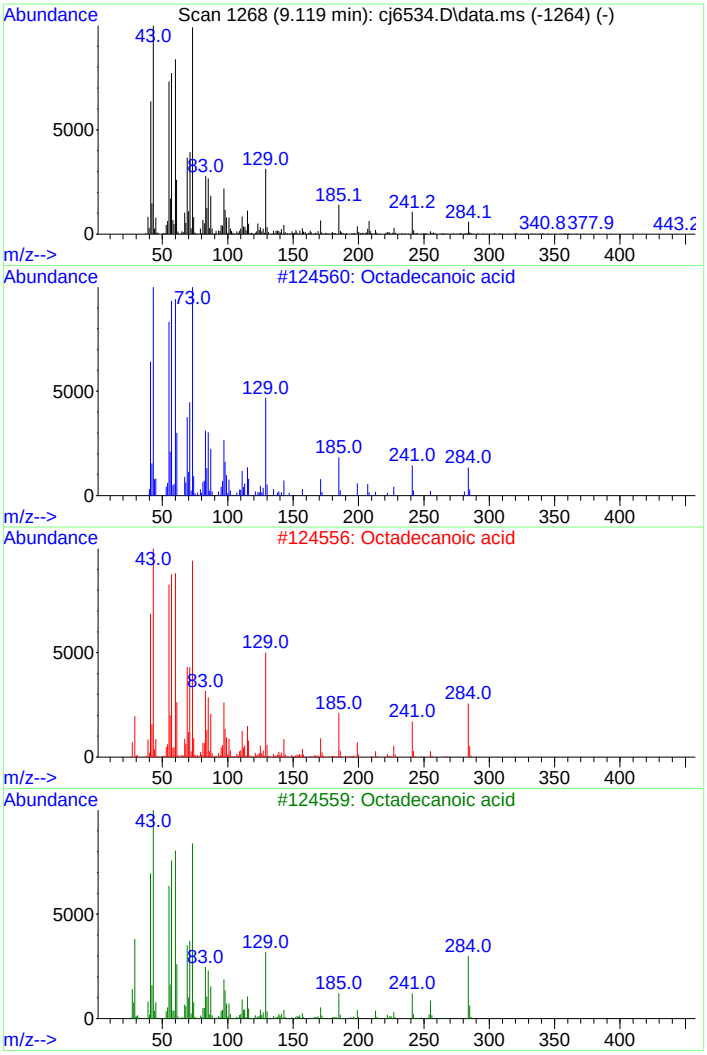
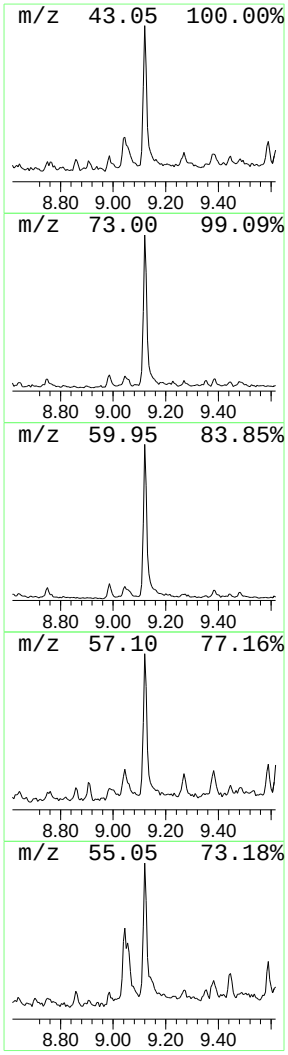
Peak Number 4 Octadecanoic acid Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.119	8.22 ppm	584638	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Octadecanoic acid	284	C18H36O2	000057-11-4	99
3	Octadecanoic acid	284	C18H36O2	000057-11-4	93
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

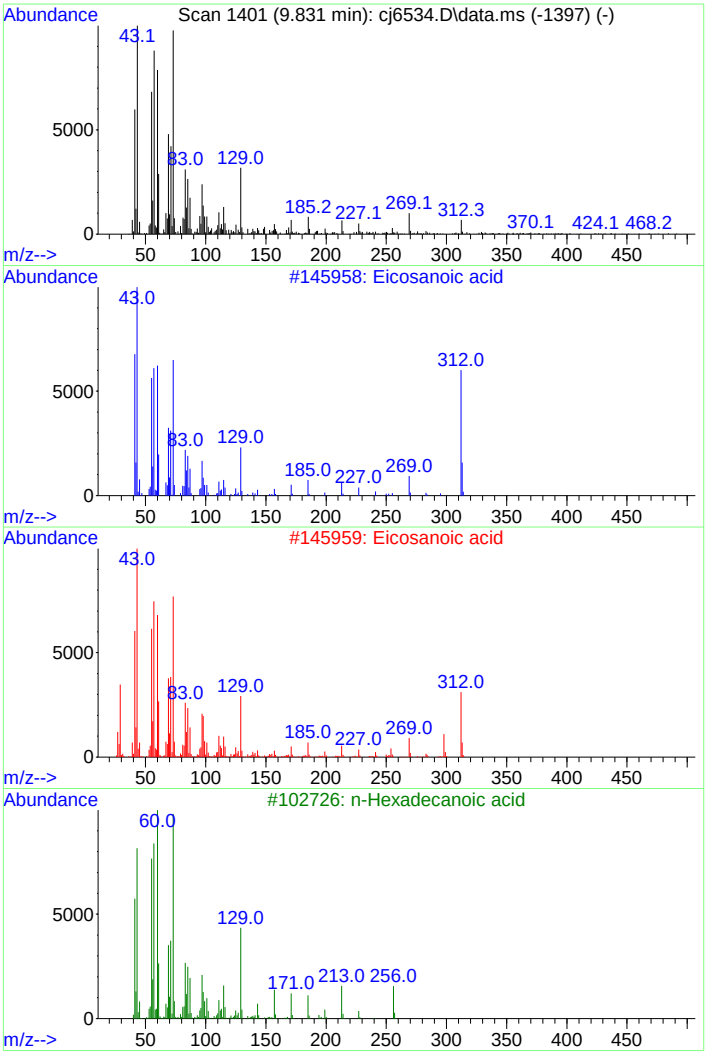
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

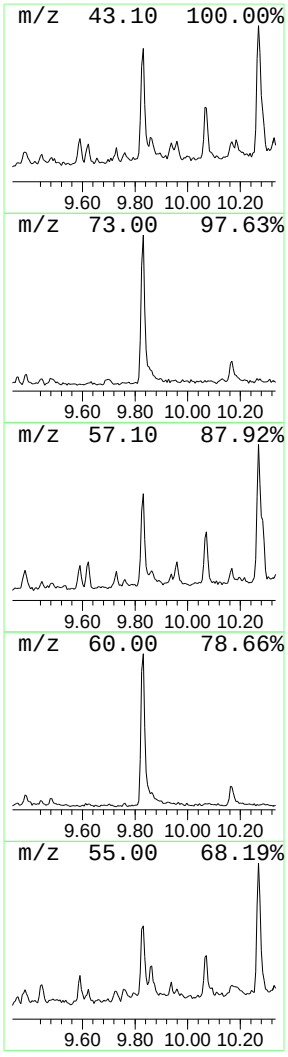
****

Peak Number 5 Eicosanoic acid Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.831	5.56 ppm	395712	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosanoic acid	312	C20H40O2	000506-30-9	98
2	Eicosanoic acid	312	C20H40O2	000506-30-9	94
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	90
4	Octadecanoic acid	284	C18H36O2	000057-11-4	90
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	72





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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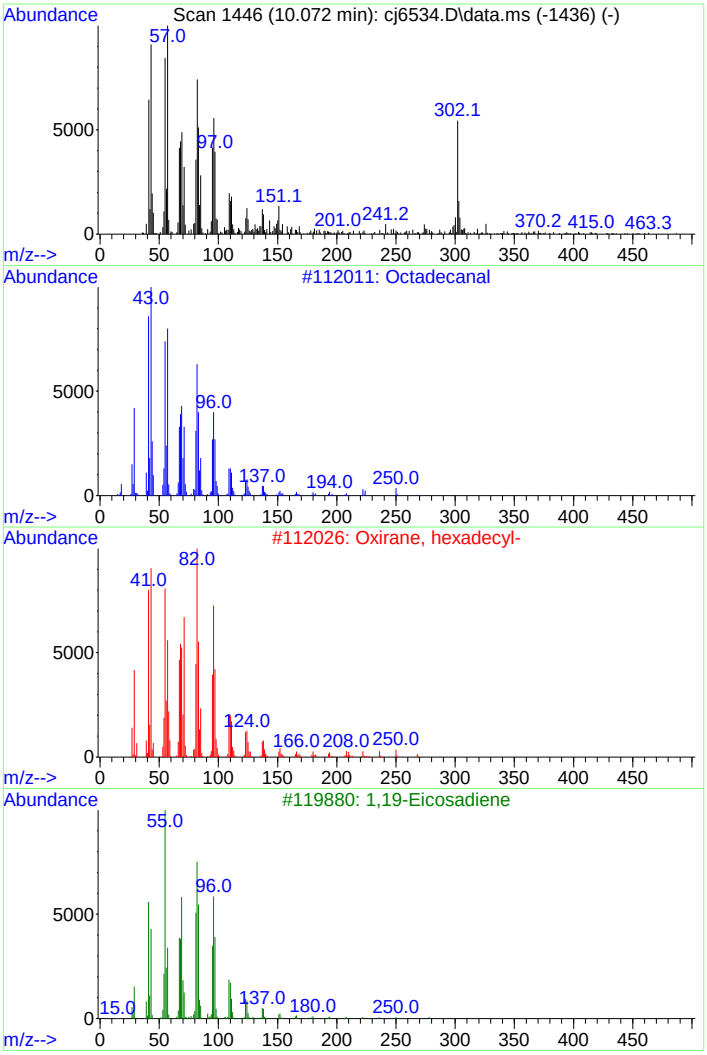
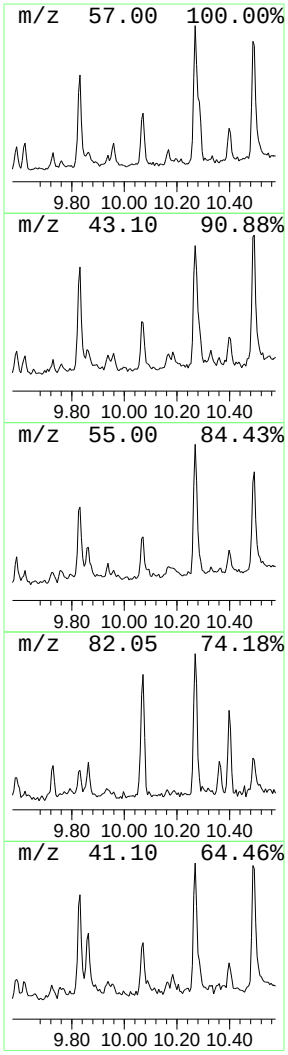
Peak Number 6 Unknown Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.072	4.42 ppm	314607	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanal	268	C18H36O	000638-66-4	91
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	90
3	1,19-Eicosadiene	278	C20H38	014811-95-1	90
4	1,19-Eicosadiene	278	C20H38	014811-95-1	89
5	Z-2-Octadecen-1-ol	268	C18H36O	1000131-11-0	83





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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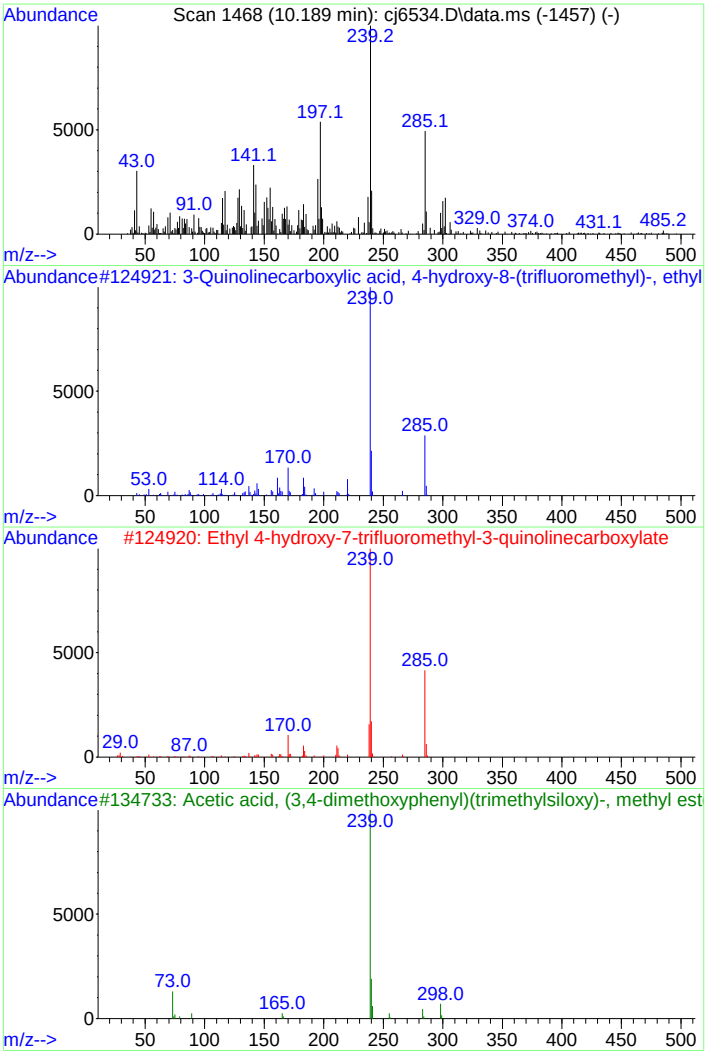
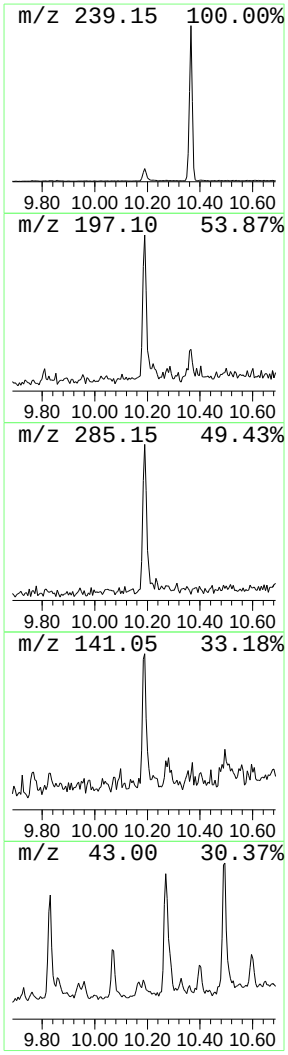
Peak Number 7 Unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.189	4.73 ppm	336597	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Quinolinecarboxylic acid, 4-hy...	285	C13H10F3NO3	023851-84-5	53
2	Ethyl 4-hydroxy-7-trifluoromethy...	285	C13H10F3NO3	000391-02-6	49
3	Acetic acid, (3,4-dimethoxypheny...	298	C14H22O5Si	002911-70-8	38
4	Indole, 3-imidazolo[2,1-b]thiazo...	239	C13H9N3S	292855-05-1	38
5	2-Ethylidene-hydrazono-3-methyl-...	239	C10H10ClN3S	1000148-08-4	35





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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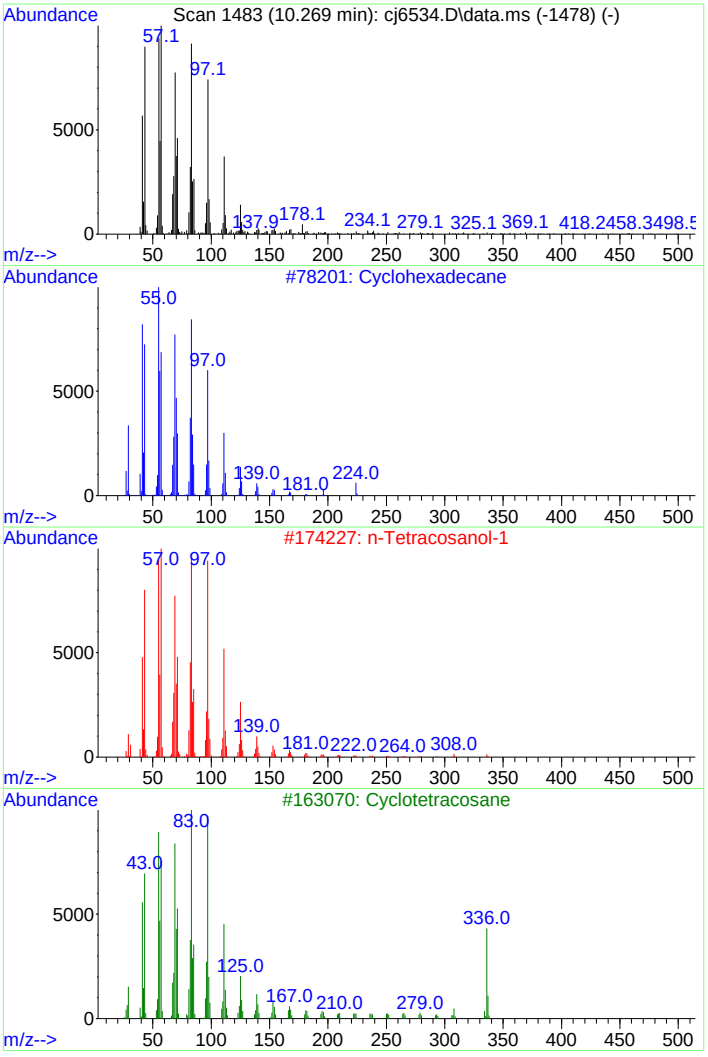
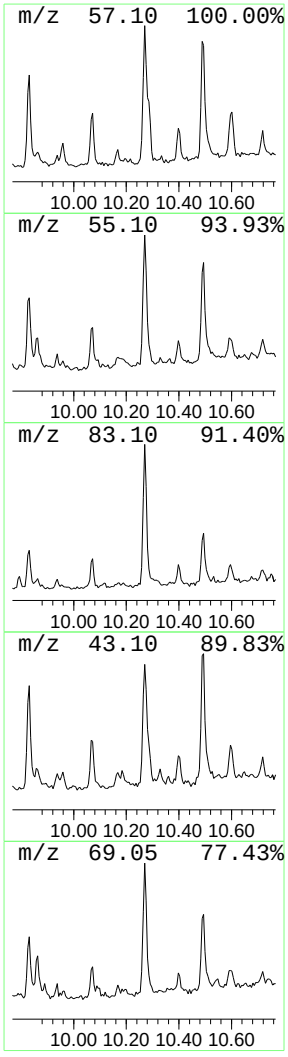
Peak Number 8 Cyclohexane alkyl Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.269	8.16 ppm	580189	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexadecane	224	C16H32	000295-65-8	94
2	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
3	Cyclotetracosane	336	C24H48	000297-03-0	93
4	1-Heneicosanol	312	C21H44O	015594-90-8	91
5	Bromoacetic acid, hexadecyl ester	362	C18H35BrO2	005454-48-8	91





Library Search Compound Report

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Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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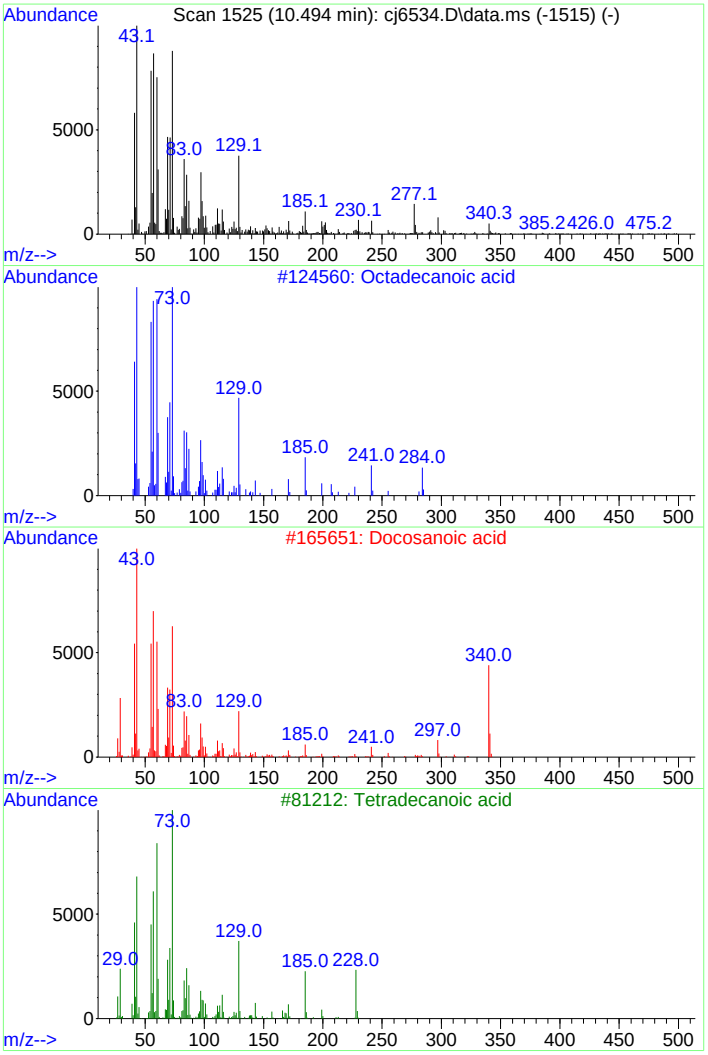
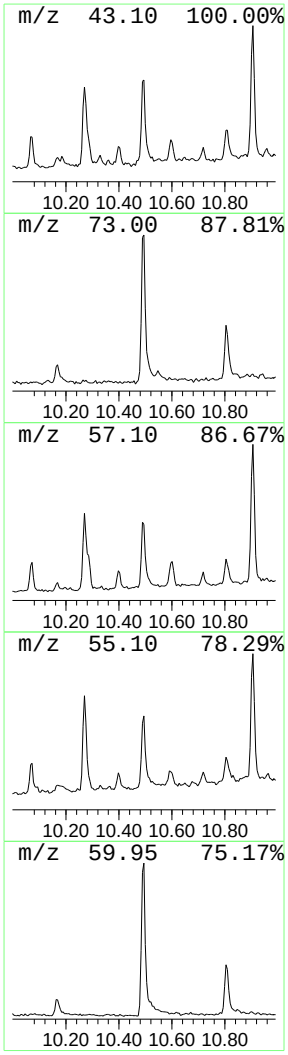
Peak Number 9 Octadecanoic acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.494	13.15 ppm	935639	Chrysene-d12a	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	98
2	Docosanoic acid	340	C22H44O2	000112-85-6	96
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	76
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	64
5	n-Decanoic acid	172	C10H20O2	000334-48-5	62





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ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
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TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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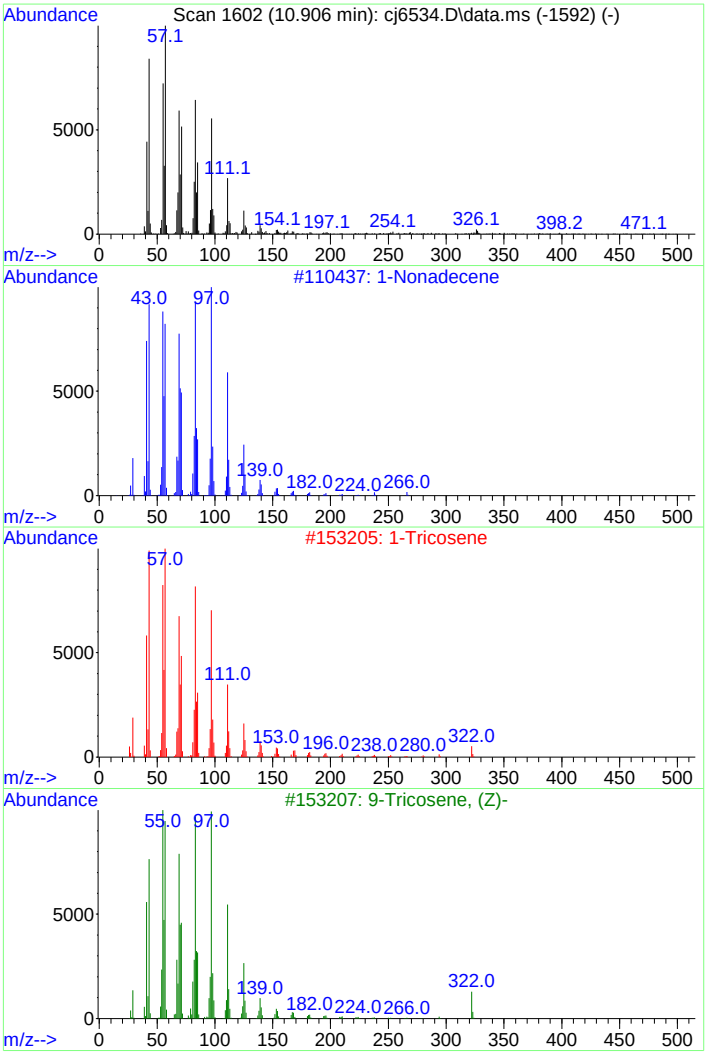
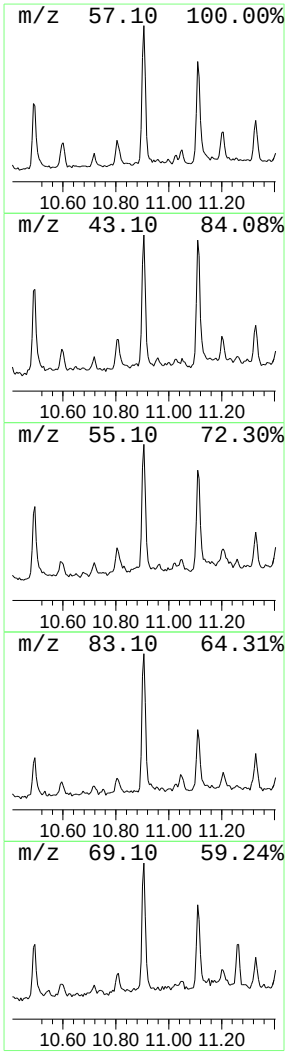
Peak Number 10 Alkene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.906	13.13 ppm	934192	Chrysene-d12a	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Nonadecene	266	C19H38	018435-45-5	96
2	1-Tricosene	322	C23H46	018835-32-0	95
3	9-Tricosene, (Z)-	322	C23H46	027519-02-4	93
4	1-Hexacosene	364	C26H52	018835-33-1	93
5	Eicosyl pentafluoropropionate	444	C23H41F5O2	1000351-80-8	91





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Acq On : 09 May 2024 11:00 pm
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Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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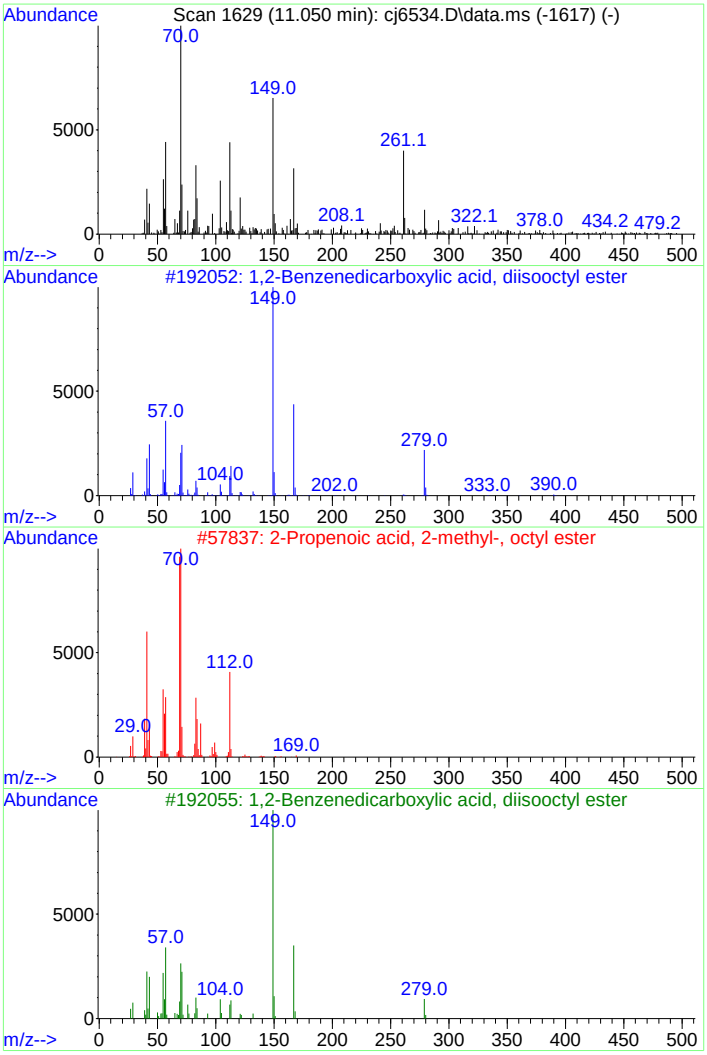
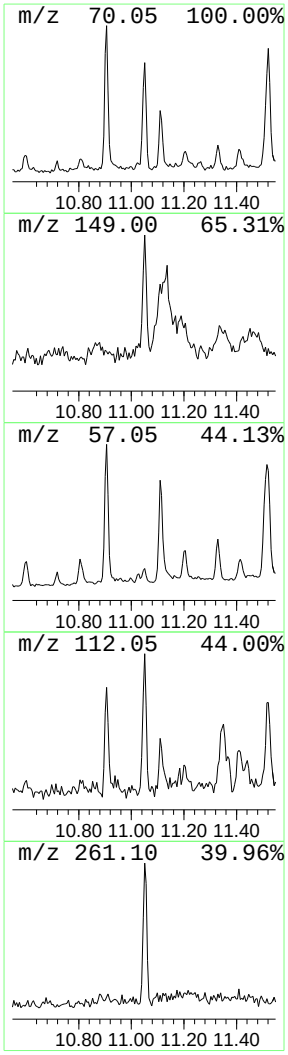
Peak Number 11 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.050	4.60 ppm	303858	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, di...	390	C24H38O4	027554-26-3	35
2	2-Propenoic acid, 2-methyl-, oct...	198	C12H22O2	002157-01-9	25
3	1,2-Benzenedicarboxylic acid, di...	390	C24H38O4	027554-26-3	22
4	Cyclohexaneamine, N-but-2-enylid...	167	C10H17NO	068048-01-1	16
5	9-(2',2'-Dimethylpropanoilhydraz...	576	C30H42Cl2N4O3	1000111-04-6	14





Library Search Compound Report

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Acq On : 09 May 2024 11:00 pm
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Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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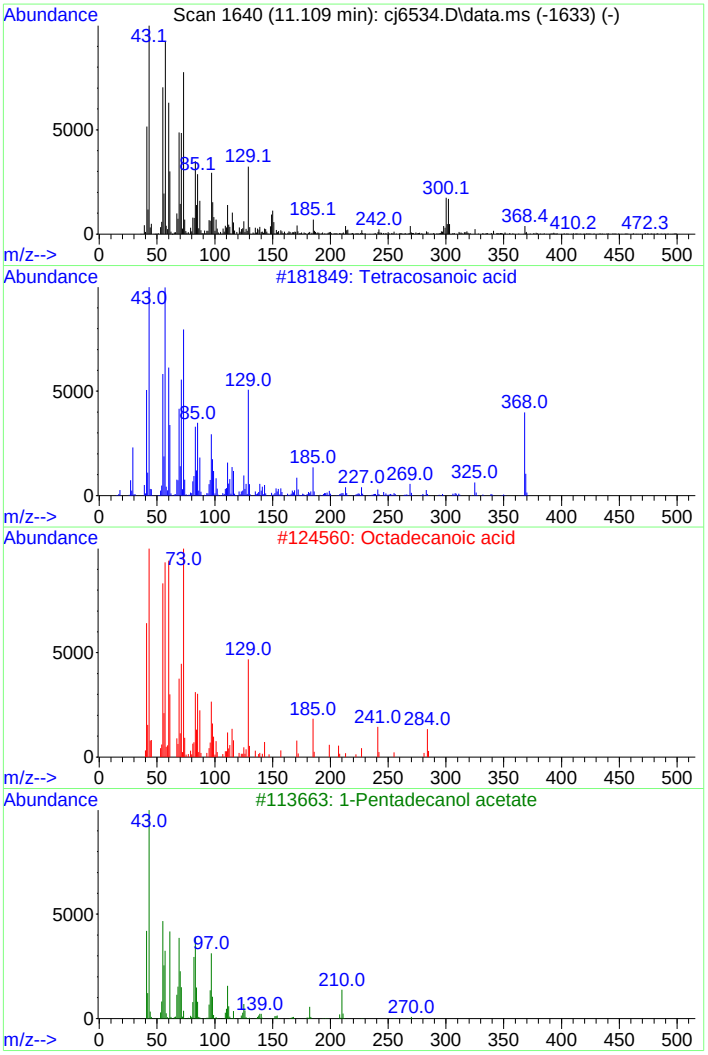
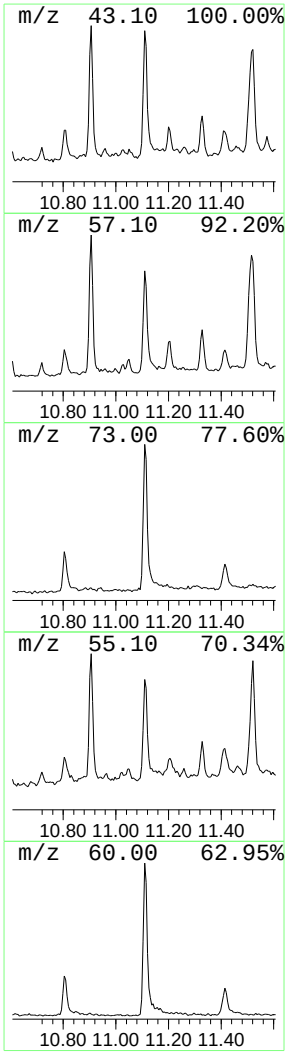
Peak Number 12 Unknown acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.109	17.45 ppm	1152930	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosanoic acid	368	C24H48O2	000557-59-5	81
2	Octadecanoic acid	284	C18H36O2	000057-11-4	70
3	1-Pentadecanol acetate	270	C17H34O2	000629-58-3	41
4	Oxalic acid, allyl hexadecyl ester	354	C21H38O4	1000309-24-4	38
5	Oxalic acid, pentadecyl propyl e...	342	C20H38O4	1000309-26-8	38





Library Search Compound Report

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Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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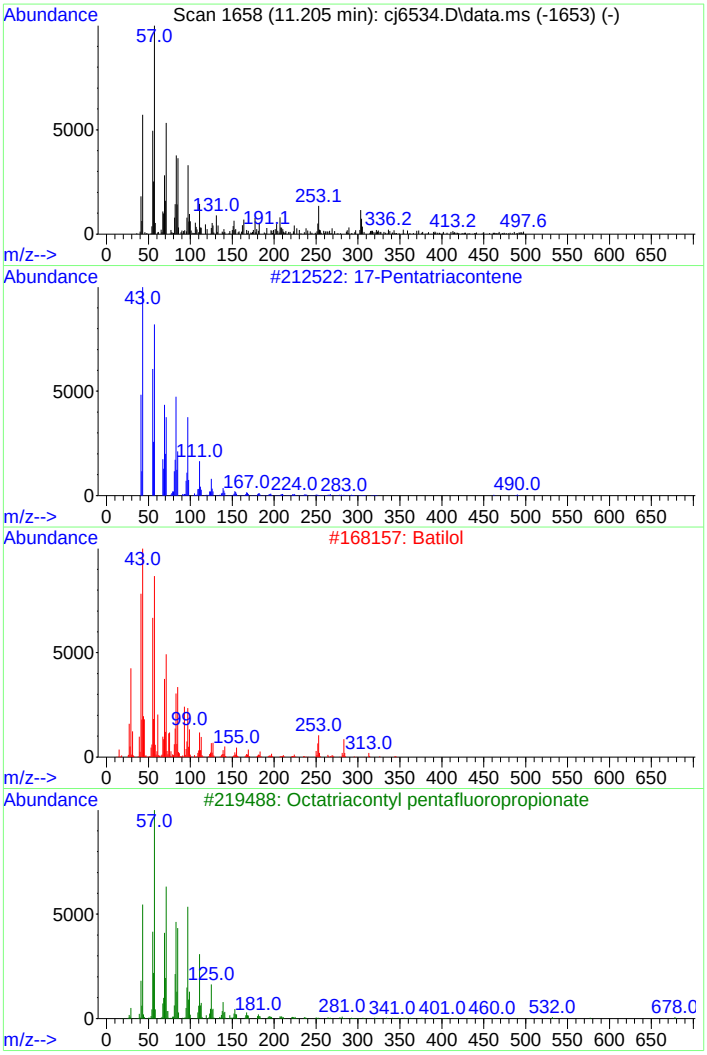
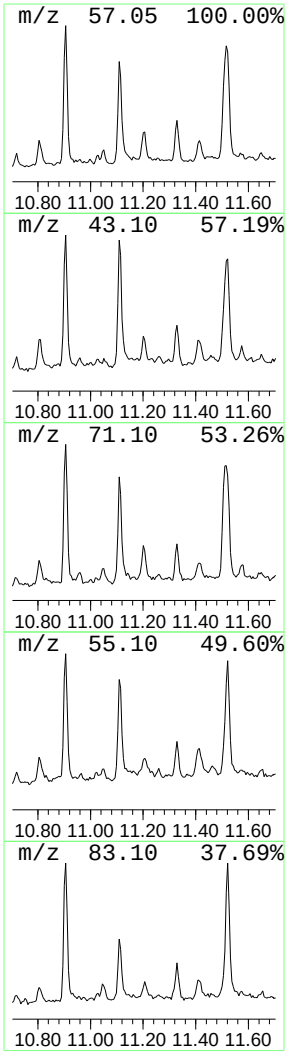
Peak Number 13 Unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.205	7.80 ppm	515177	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	17-Pentatriacontene	491	C35H70	006971-40-0	83
2	Batilol	344	C21H44O3	000544-62-7	64
3	Octatriacontyl pentafluoropropio...	697	C41H77F5O2	1000351-89-1	64
4	Octadecane	254	C18H38	000593-45-3	60
5	Tetracosane	338	C24H50	000646-31-1	60





Library Search Compound Report

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Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
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Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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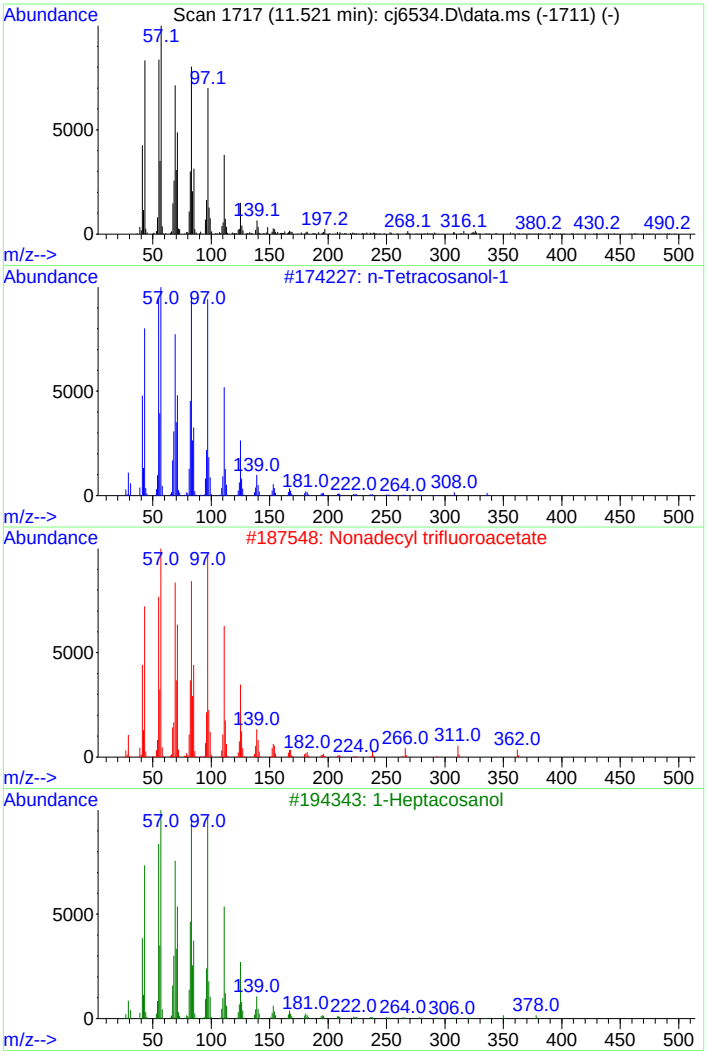
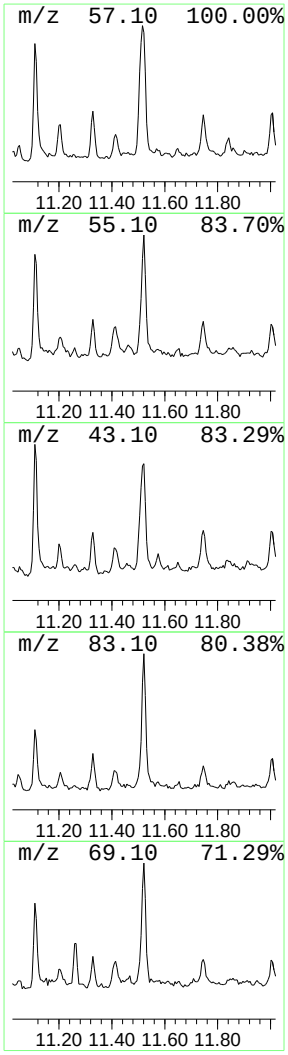
Peak Number 14 Unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.521	15.66 ppm	1034910	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
2	Nonadecyl trifluoroacetate	380	C21H39F3O2	1000351-76-3	91
3	1-Heptacosanol	396	C27H56O	002004-39-9	91
4	Cyclopentadecane	210	C15H30	000295-48-7	90
5	Behenic alcohol	326	C22H46O	000661-19-8	90





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Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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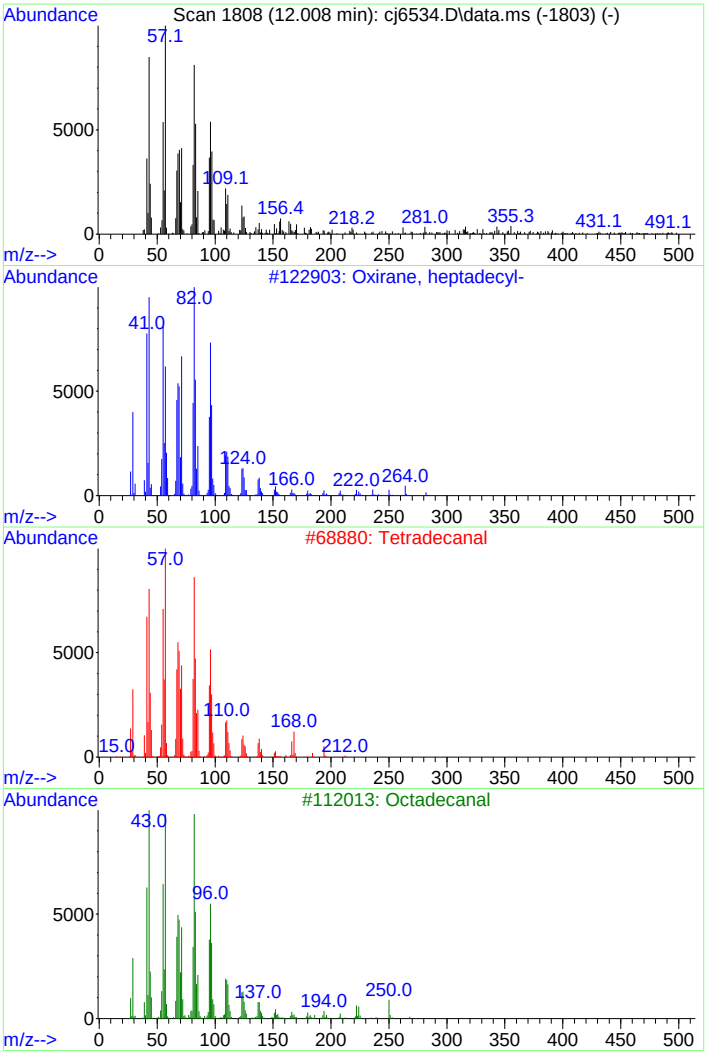
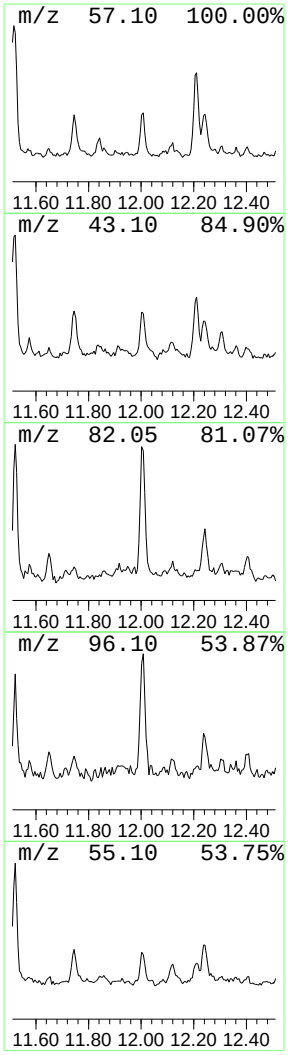
Peak Number 15 Unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.008	6.04 ppm	399370	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	93
2	Tetradecanal	212	C14H28O	000124-25-4	91
3	Octadecanal	268	C18H36O	000638-66-4	91
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	87
5	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	83





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Acq On : 09 May 2024 11:00 pm
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Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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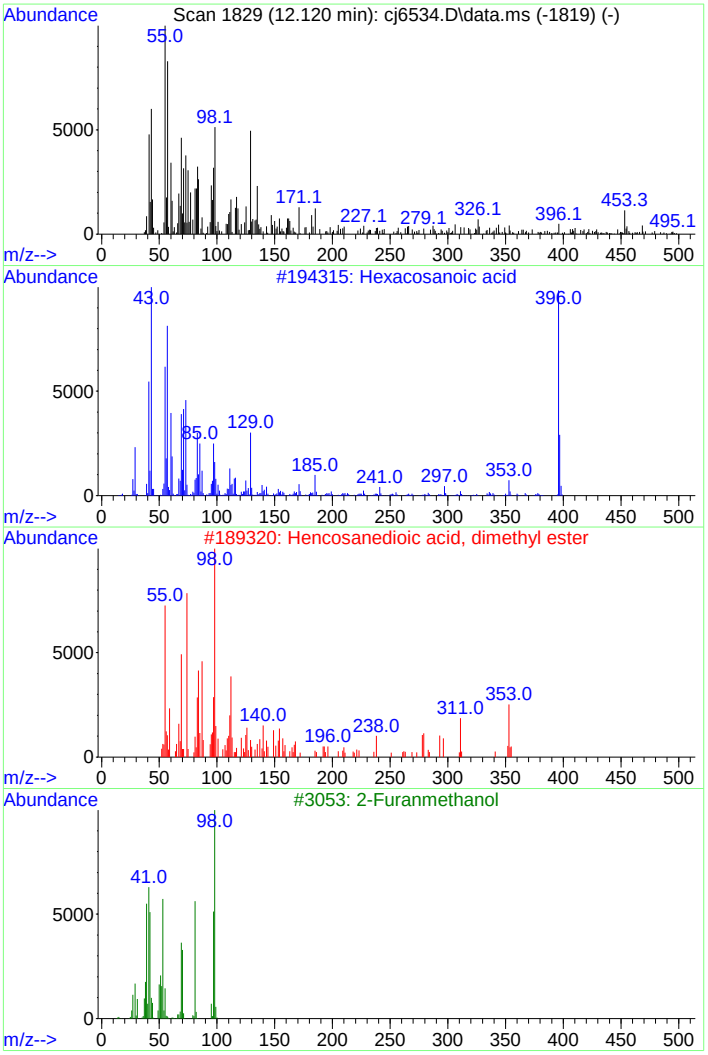
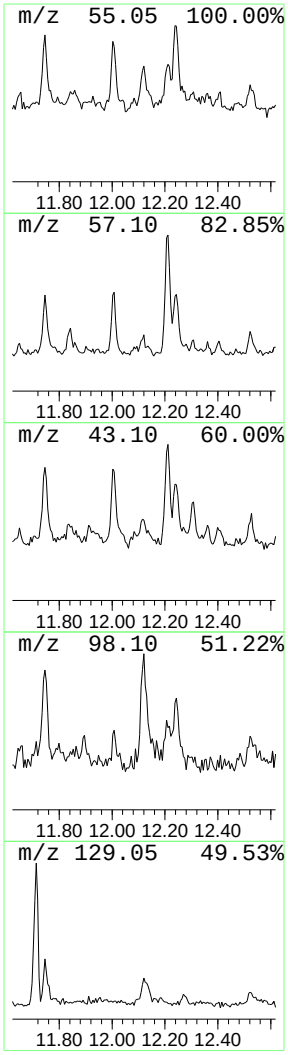
Peak Number 16 Unknown acid Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.120	4.35 ppm	287436	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexacosanoic acid	396	C26H52O2	000506-46-7	27
2	Hencosanedioic acid, dimethyl ester	384	C23H44O4	042235-57-4	12
3	2-Furanmethanol	98	C5H6O2	000098-00-0	9
4	Octadecanoic acid, propyl ester	326	C21H42O2	003634-92-2	9
5	9-Octadecene, 1,1-dimethoxy-, (Z)-	312	C20H40O2	015677-71-1	9





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Data File : cj6534.D
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Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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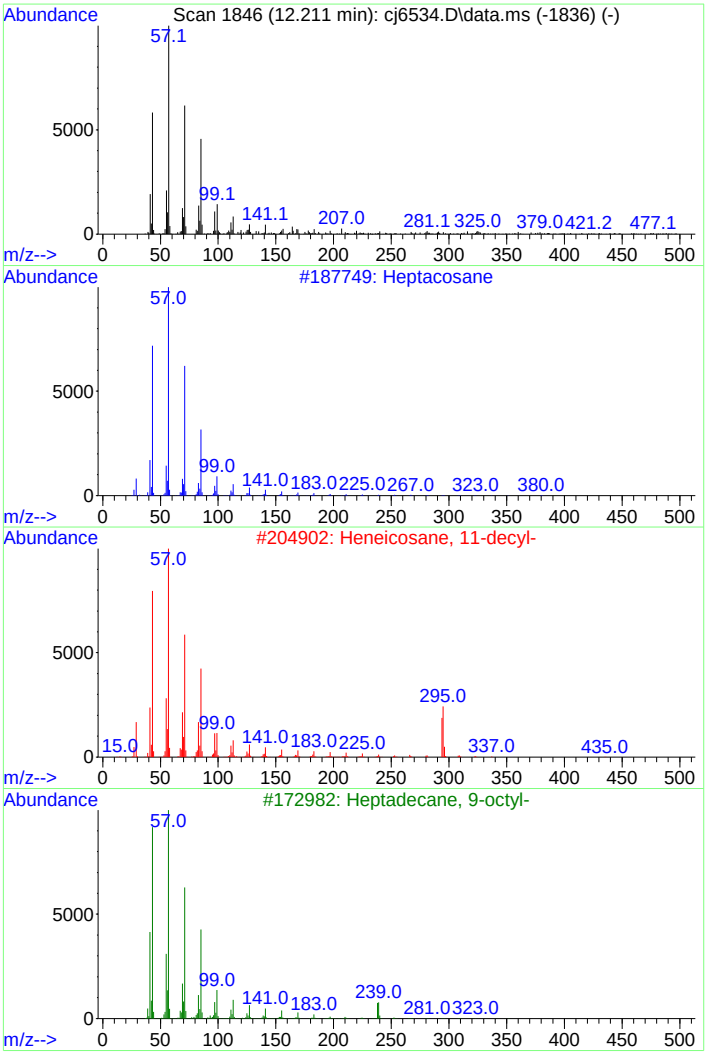
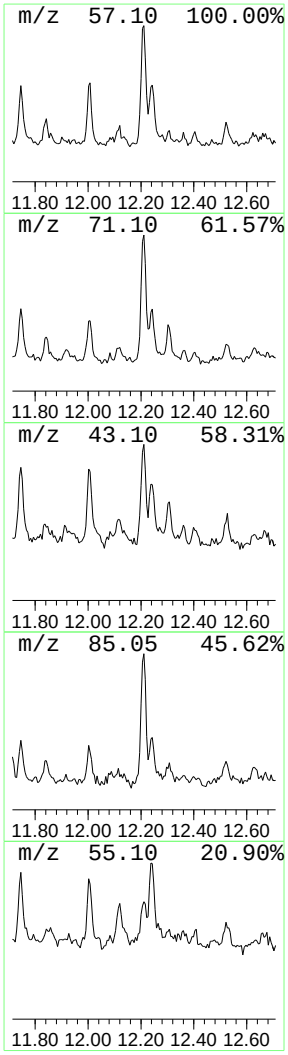
Peak Number 17 Alkane Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.211	5.39 ppm	356391	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	91
2	Heneicosane, 11-decyl-	437	C31H64	055320-06-4	89
3	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	87
4	Tetratetracontane	619	C44H90	007098-22-8	86
5	Octadecane	254	C18H38	000593-45-3	83





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Acq On : 09 May 2024 11:00 pm
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Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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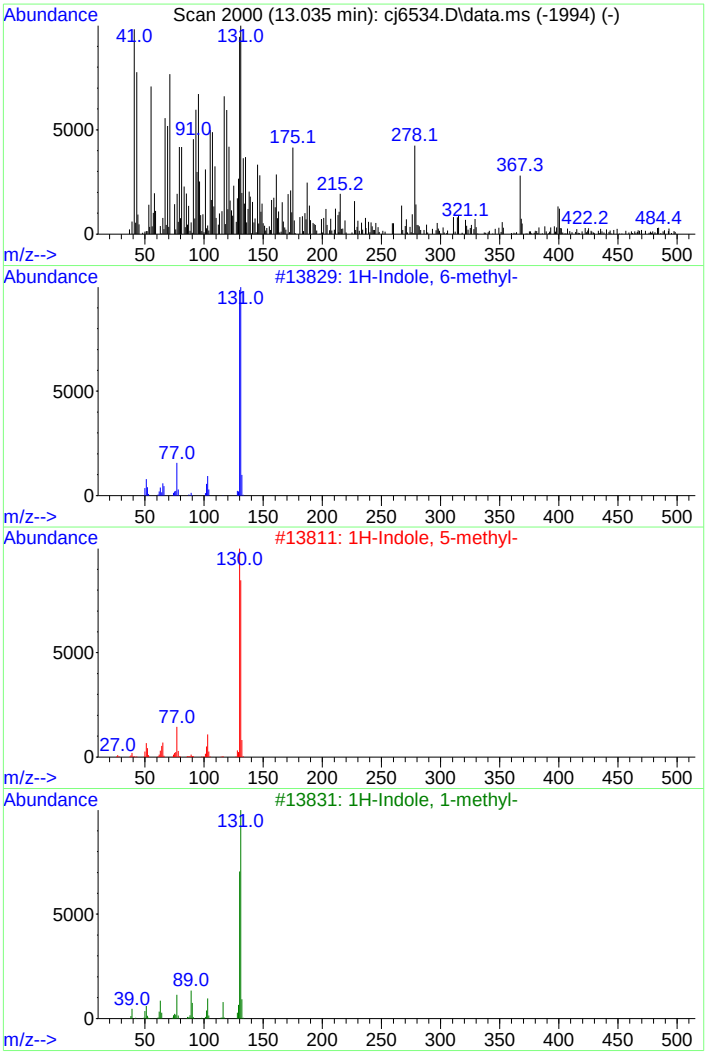
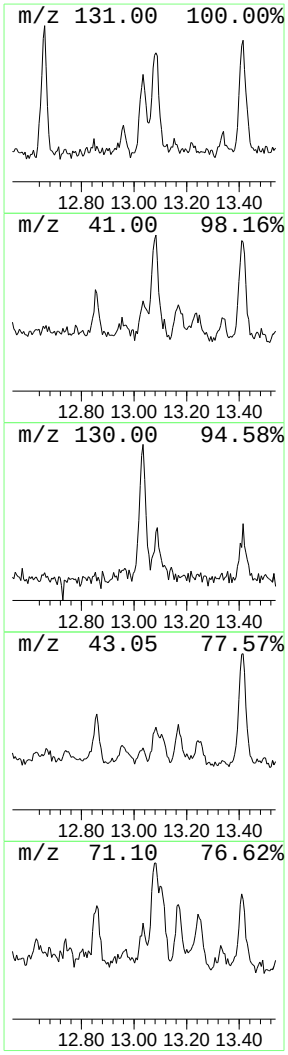
Peak Number 18 Unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.035	4.49 ppm	296568	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indole, 6-methyl-	131	C9H9N	003420-02-8	18
2	1H-Indole, 5-methyl-	131	C9H9N	000614-96-0	14
3	1H-Indole, 1-methyl-	131	C9H9N	000603-76-9	14
4	.beta.-Benzal-n-butyramide	175	C11H13NO	007236-47-7	14
5	1H-Indole-3-ethanamine, N-methyl-	174	C11H14N2	000061-49-4	14





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Sample : jd87833-10
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ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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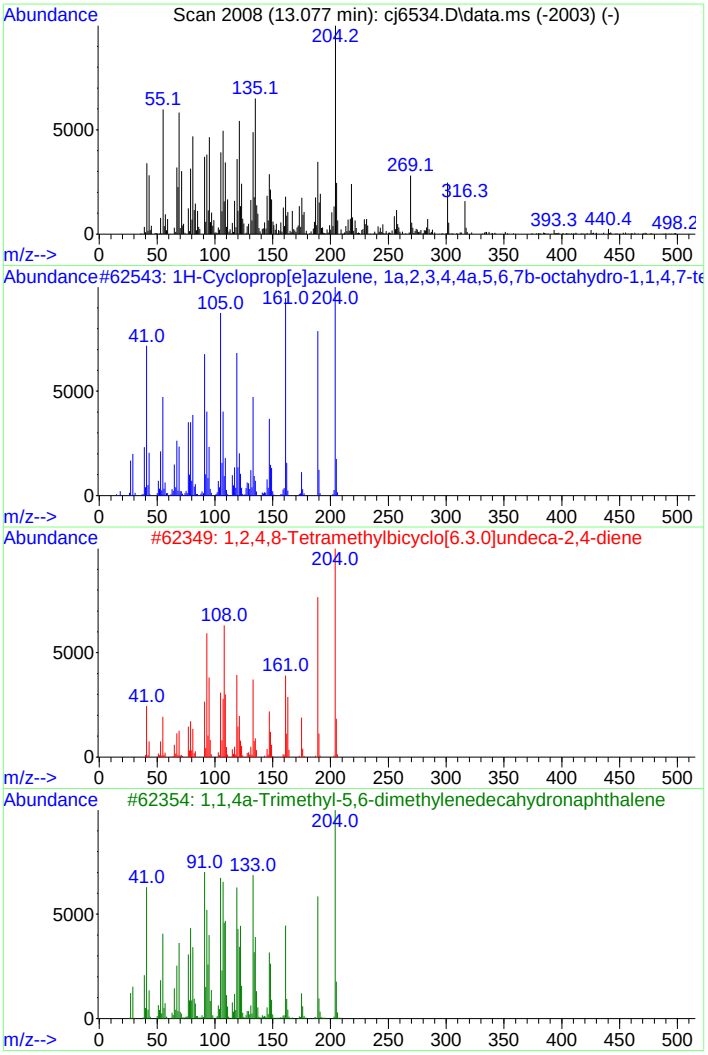
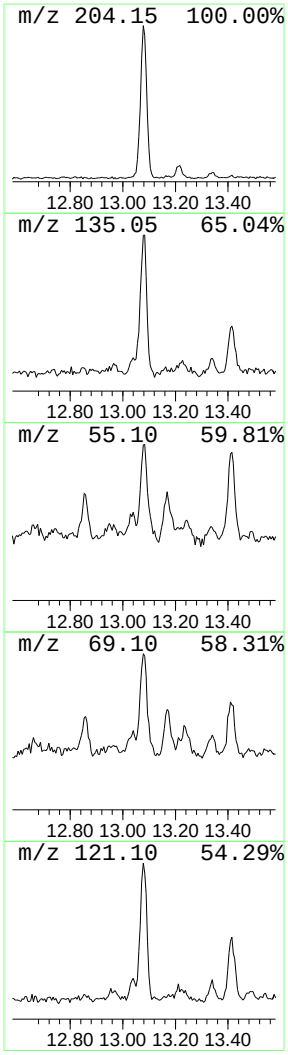
Peak Number 19 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.078	23.12 ppm	1527810	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cycloprop[e]azulene, 1a,2,3,4...	204	C15H24	000489-40-7	78
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	78
3	1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	53
4	Naphthalene, 1,2,3,5,6,7,8,8a-oc...	204	C15H24	004630-07-3	52
5	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1000140-07-7	46





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

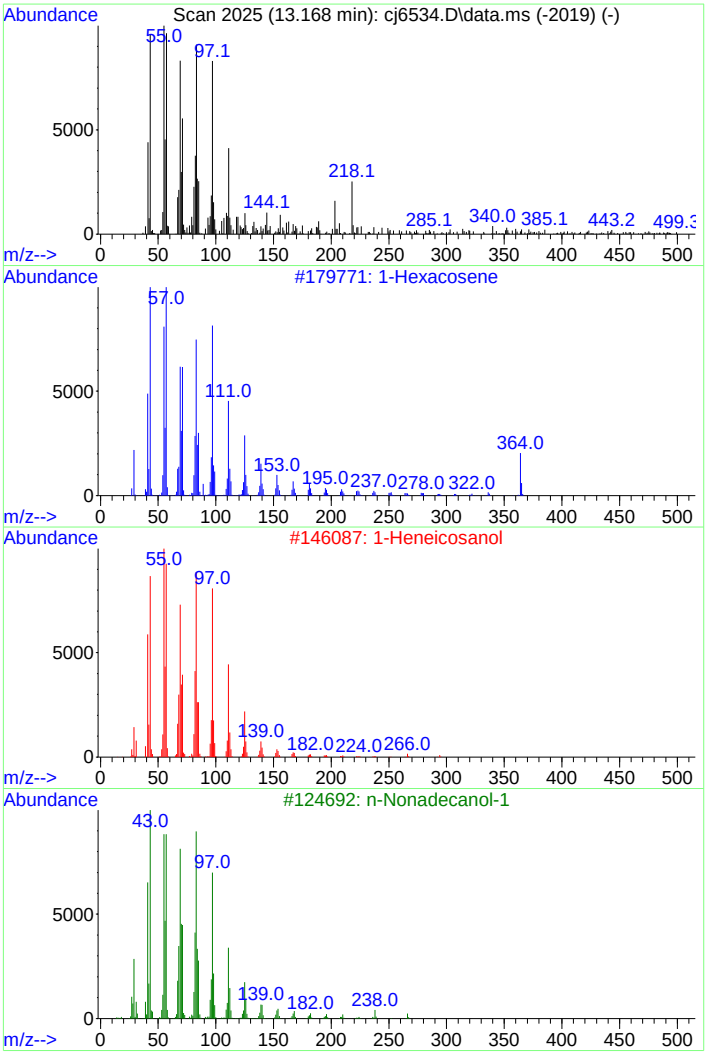
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

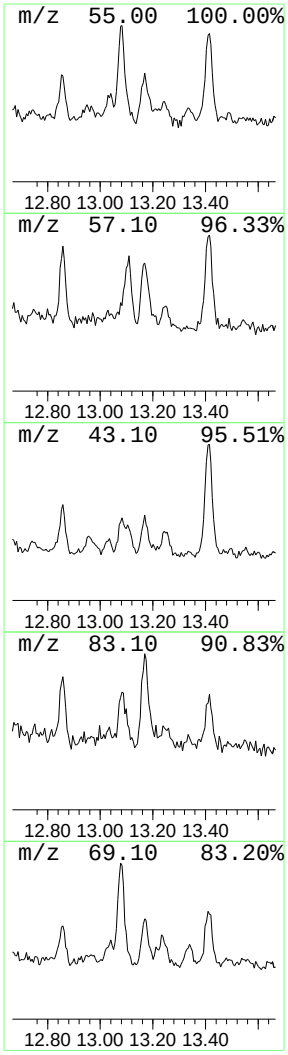
****

Peak Number 20 Unknown Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.168	4.52 ppm	298834	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexacosene	364	C26H52	018835-33-1	89
2	1-Heneicosanol	312	C21H44O	015594-90-8	83
3	n-Nonadecanol-1	284	C19H40O	001454-84-8	80
4	1-Docosene	308	C22H44	001599-67-3	68
5	17-Pentatriacontene	491	C35H70	006971-40-0	64





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

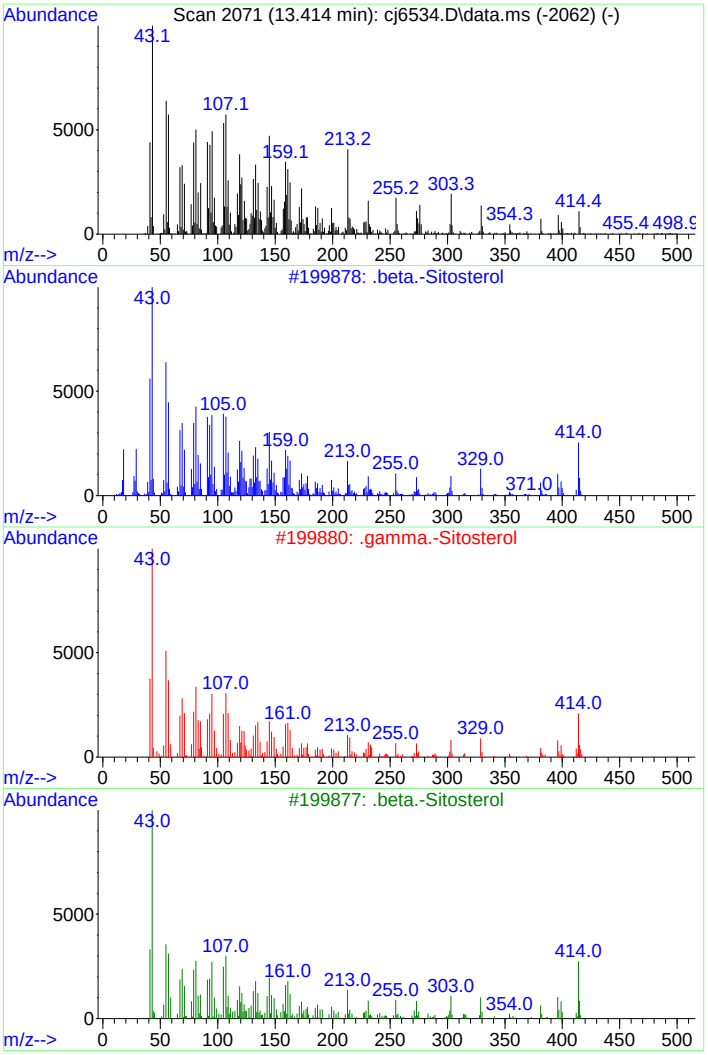
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

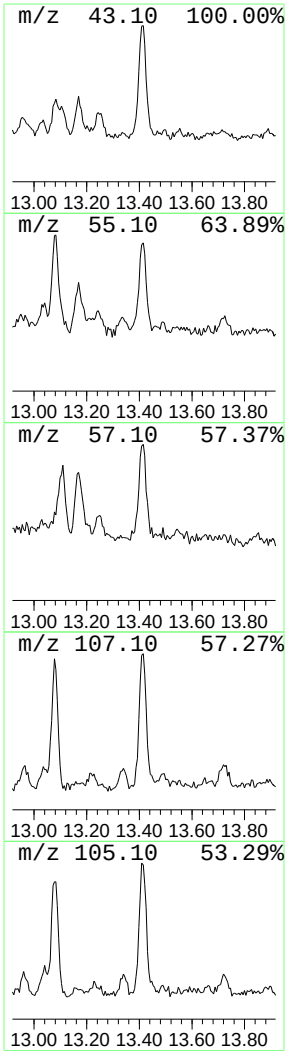
****

Peak Number 21 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.415	19.97 ppm	1319810	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Sitosterol	414	C29H50O	000083-46-5	99
2	.gamma.-Sitosterol	414	C29H50O	000083-47-6	86
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	86
4	.gamma.-Sitosterol	414	C29H50O	000083-47-6	70
5	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	62





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

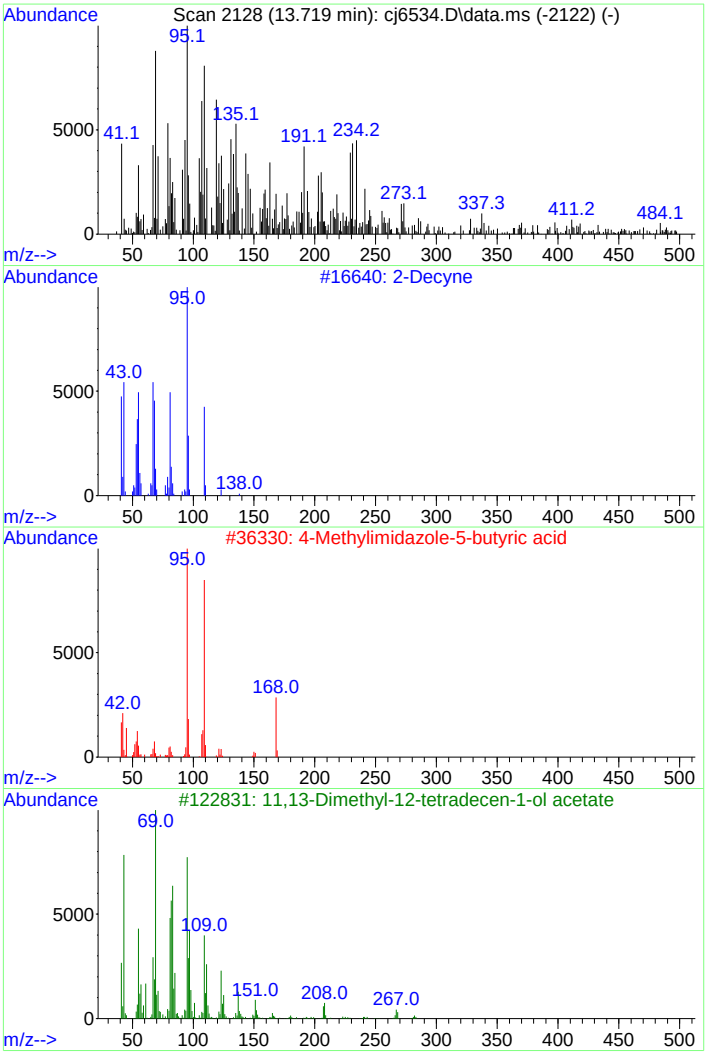
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

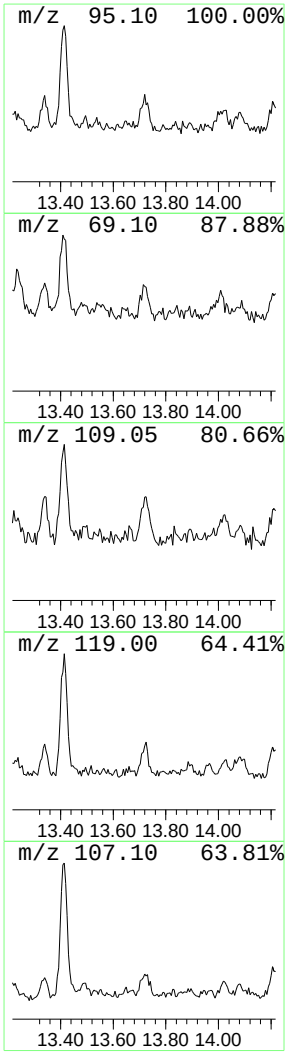
****

Peak Number 22 Unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.719	4.79 ppm	316518	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Decyne	138	C10H18	002384-70-5	22
2	4-Methylimidazole-5-butyric acid	168	C8H12N2O2	1000129-14-7	22
3	11,13-Dimethyl-12-tetradecen-1-o...	282	C18H34O2	1000130-81-0	15
4	Sesquirosefuran	218	C15H22O	039007-93-7	15
5	Fenretinide	391	C26H33NO2	065646-68-6	14





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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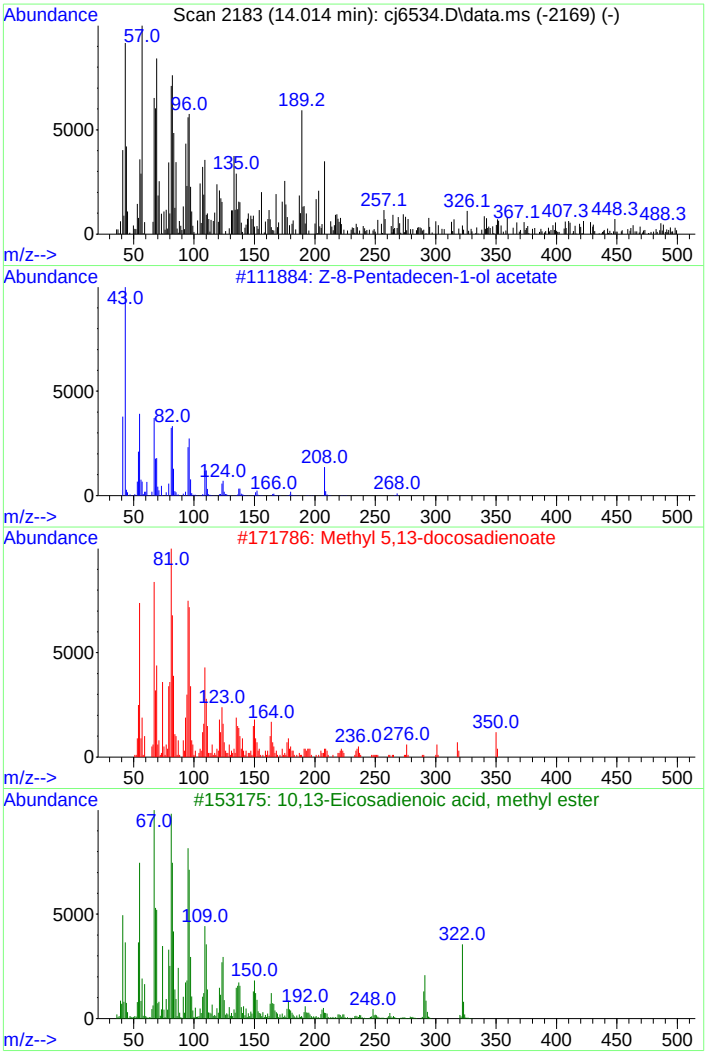
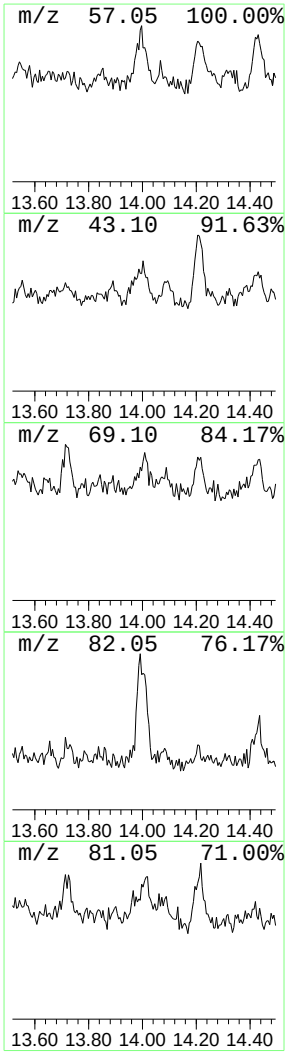
Peak Number 23 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.014	5.58 ppm	368614	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Z-8-Pentadecen-1-ol acetate	268	C17H32O2	1000130-85-1	55
2	Methyl 5,13-docosadienoate	350	C23H42O2	1000336-51-0	52
3	10,13-Eicosadienoic acid, methyl...	322	C21H38O2	030223-50-8	47
4	6-Octen-1-ol, 3,7-dimethyl-	156	C10H20O	000106-22-9	46
5	Z-11(13-Methyl)tetradecen-1-ol a...	268	C17H32O2	1000131-33-3	45





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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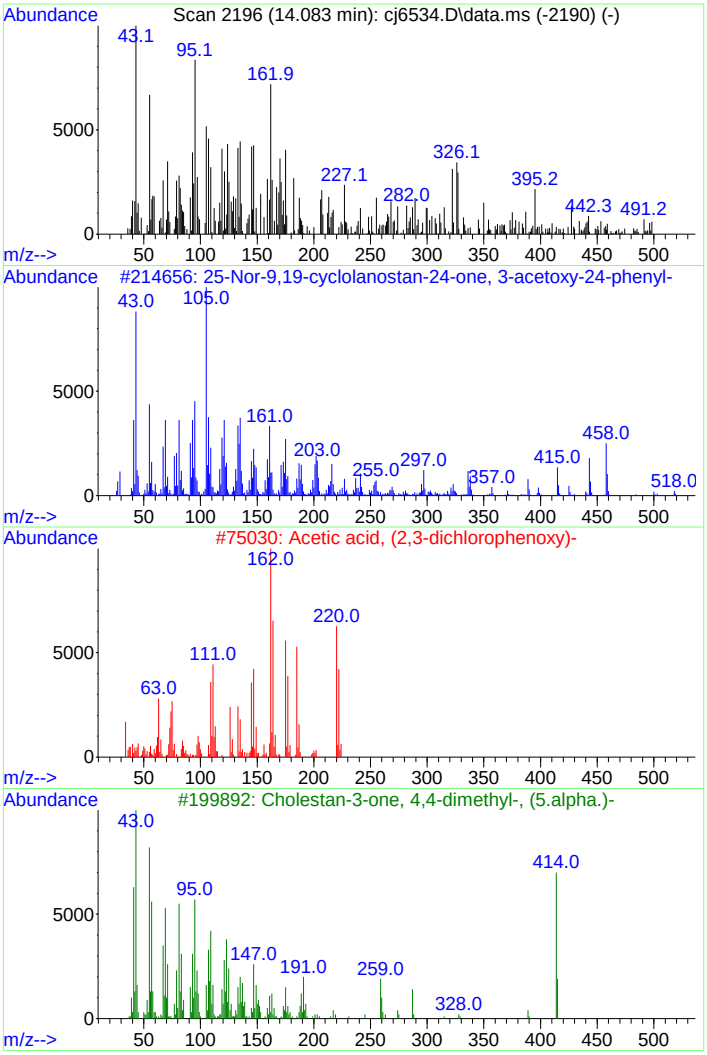
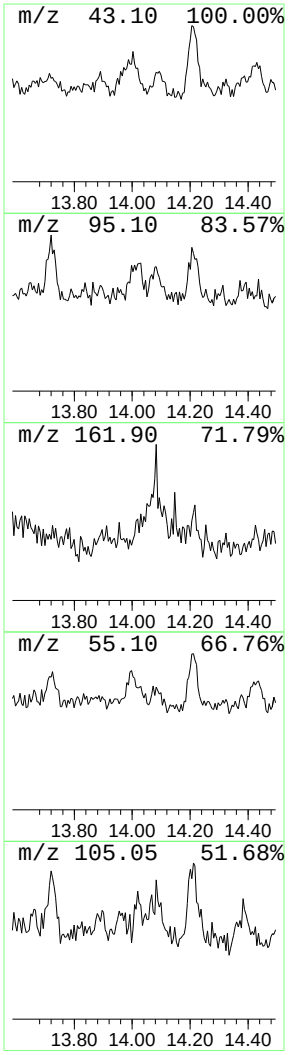
Peak Number 24 Unknown Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.083	5.31 ppm	350895	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	25-Nor-9,19-cyclolanostan-24-one...	518	C35H50O3	1000194-00-2	32
2	Acetic acid, (2,3-dichlorophenoxy)-	220	C8H6Cl2O3	002976-74-1	18
3	Cholestan-3-one, 4,4-dimethyl-, ...	414	C29H50O	002097-85-0	12
4	.beta.-Alanine, N-(2-furoyl)-, p...	393	C23H39NO4	1000321-98-4	11
5	Oxamide, N-(2-methoxybenzyl)-N'-...	327	C18H21N3O3	1000276-44-0	10





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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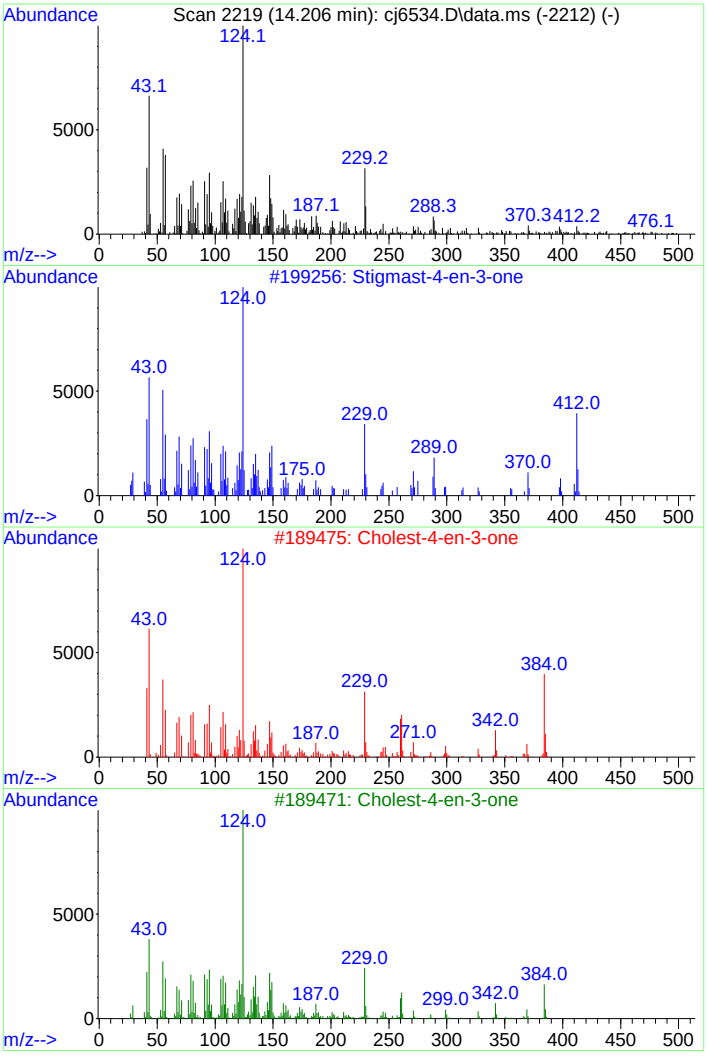
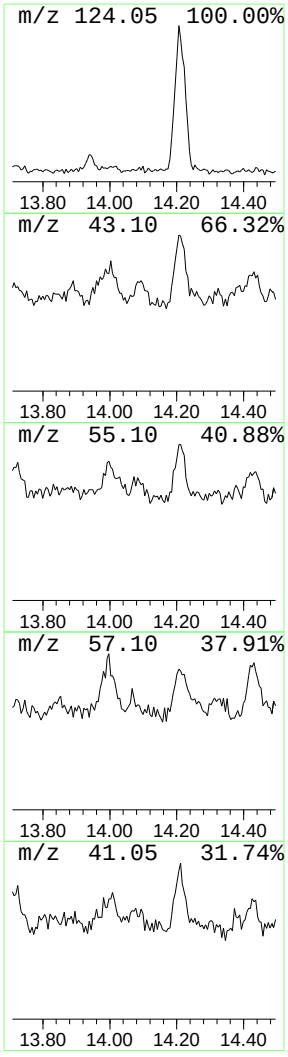
Peak Number 25 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.206	8.12 ppm	536530	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	93
2	Cholest-4-en-3-one	384	C27H44O	000601-57-0	83
3	Cholest-4-en-3-one	384	C27H44O	000601-57-0	83
4	Cholest-4-en-3-one	384	C27H44O	000601-57-0	80
5	Androst-4-en-3-one, 17-hydroxy-,...	288	C19H28O2	000604-39-7	70





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6534.D
Acq On : 09 May 2024 11:00 pm
Operator : rocquans
Sample : jd87833-10
Misc : op54460,ecj297,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.247	9.7	ppm	504180	2	4.664	2080240	40.0
n-Hexadecanoic ...	8.371	17.4	ppm	1359480	8	7.868	3128200	40.0
Unknown acid	9.045	5.2	ppm	408407	8	7.868	3128200	40.0
Octadecanoic acid	9.119	8.2	ppm	584638	9	10.366	2845040	40.0
Eicosanoic acid	9.831	5.6	ppm	395712	9	10.366	2845040	40.0
Unknown	10.072	4.4	ppm	314607	9	10.366	2845040	40.0
Unknown	10.189	4.7	ppm	336597	9	10.366	2845040	40.0
Cyclohexane alkyl	10.269	8.2	ppm	580189	9	10.366	2845040	40.0
Octadecanoic acid	10.494	13.2	ppm	935639	10	10.366	2845040	40.0
Alkene	10.906	13.1	ppm	934192	10	10.366	2845040	40.0
Unknown	11.050	4.6	ppm	303858	11	11.714	2643240	40.0
Unknown acid	11.109	17.4	ppm	1152930	11	11.714	2643240	40.0
Unknown	11.205	7.8	ppm	515177	11	11.714	2643240	40.0
Unknown	11.521	15.7	ppm	1034910	11	11.714	2643240	40.0
Unknown	12.008	6.0	ppm	399370	11	11.714	2643240	40.0
Unknown acid	12.120	4.3	ppm	287436	11	11.714	2643240	40.0
Alkane	12.211	5.4	ppm	356391	11	11.714	2643240	40.0
Unknown	13.035	4.5	ppm	296568	11	11.714	2643240	40.0
Unknown	13.078	23.1	ppm	1527810	11	11.714	2643240	40.0
Unknown	13.168	4.5	ppm	298834	11	11.714	2643240	40.0
Unknown	13.415	20.0	ppm	1319810	11	11.714	2643240	40.0
Unknown	13.719	4.8	ppm	316518	11	11.714	2643240	40.0
Unknown	14.014	5.6	ppm	368614	11	11.714	2643240	40.0
Unknown	14.083	5.3	ppm	350895	11	11.714	2643240	40.0
Unknown	14.206	8.1	ppm	536530	11	11.714	2643240	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jacky Takeuchi 05/10/24 22:07

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6526.D
Acq On : 09 May 2024 08:30 pm
Operator : rocquans
Sample : jd87833-11 Inst : GCMSCJ
Misc : op54460,ecj297,30.3,,,1,2
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 10 18:47:52 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

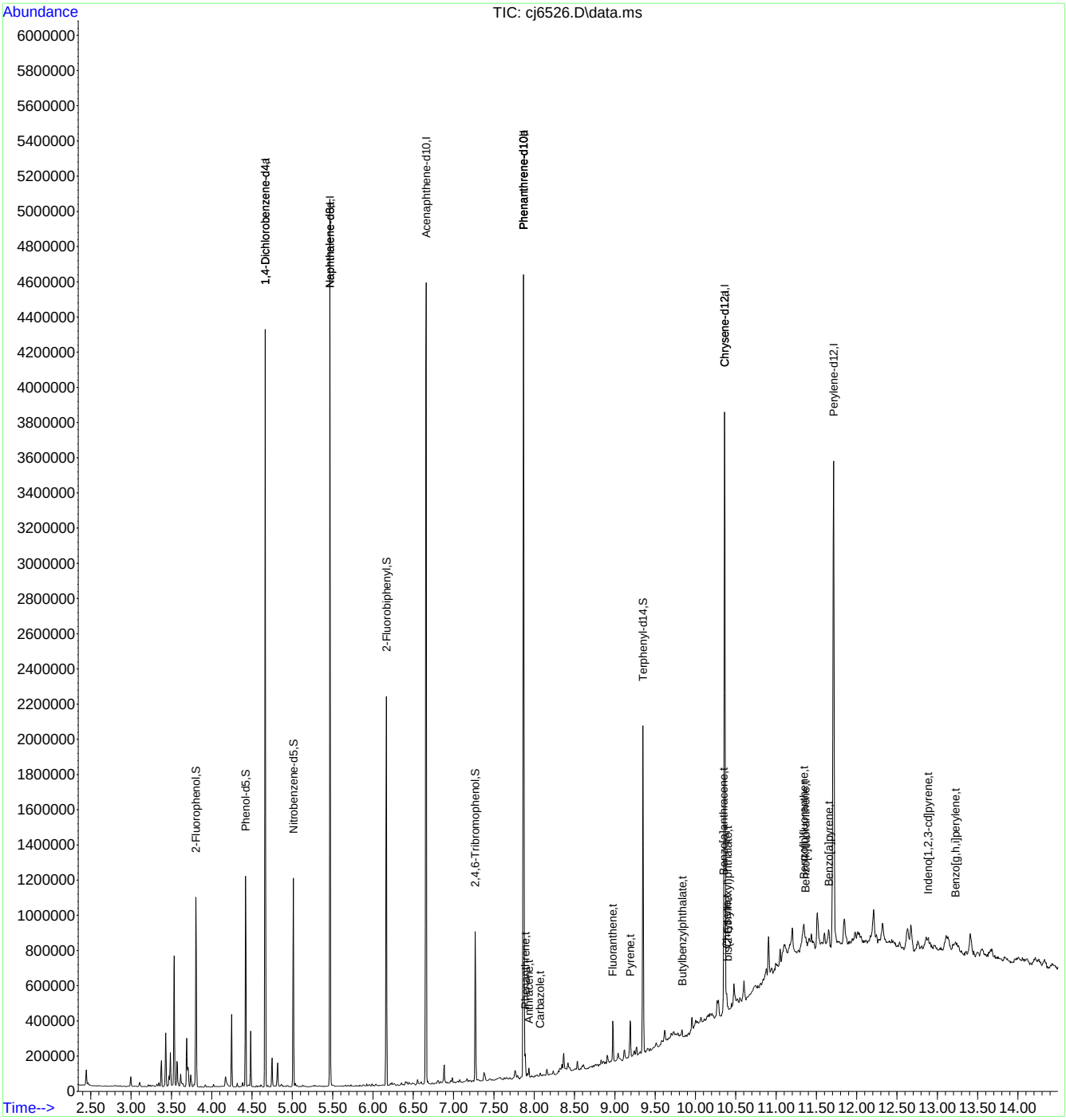
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.664	152	383650	40.00	ppm	0.00
24) Naphthalene-d8	5.466	136	1365898	40.00	ppm	0.00
46) Acenaphthene-d10	6.659	164	775833	40.00	ppm	0.00
69) Phenanthrene-d10	7.868	188	1398054	40.00	ppm	0.00
84) Chrysene-d12	10.360	240	982335	40.00	ppm	-0.01
93) Perylene-d12	11.714	264	979342	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.664	152	383650	40.00	ppm	0.00
105) Phenanthrene-d10a	7.868	188	1398054	40.00	ppm	0.00
107) Naphthalene-d8a	5.466	136	1365898	40.00	ppm	0.00
109) Phenanthrene-d10b	7.868	188	1398054	40.00	ppm	0.00
112) Chrysene-d12a	10.360	240	982335	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.803	112	189170	17.15	ppm	0.00
Spiked Amount 50.000			Recovery =	34.30%		
8) Phenol-d5	4.418	99	253227	17.80	ppm	0.00
Spiked Amount 50.000			Recovery =	35.60%		
25) Nitrobenzene-d5	5.012	82	242608	17.35	ppm	0.00
Spiked Amount 50.000			Recovery =	34.70%		
51) 2-Fluorobiphenyl	6.167	172	463113	18.97	ppm	0.00
Spiked Amount 50.000			Recovery =	37.94%		
74) 2,4,6-Tribromophenol	7.269	330	63406	20.69	ppm	0.00
Spiked Amount 50.000			Recovery =	41.38%		
87) Terphenyl-d14	9.349	244	487046	20.07	ppm	0.00
Spiked Amount 50.000			Recovery =	40.14%		
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
78) Phenanthrene	7.889	178	40341	1.1940	ppm	99
79) Anthracene	7.932	178	12094	0.3575	ppm	96
80) Carbazole	8.071	167	5131	0.1628	ppm	96
82) Fluoranthene	8.975	202	81109	2.2174	ppm	99
86) Pyrene	9.189	202	77978	2.3341	ppm	98
88) Butylbenzylphthalate	9.836	149	7224	0.4847	ppm	93
89) Benzo[a]anthracene	10.350	228	38345	1.2140	ppm	87
91) Chrysene	10.387	228	39244	1.3467	ppm	99
92) bis(2-Ethylhexyl)phtha...	10.403	149	8252m	0.3738	ppm	
95) Benzo[b]fluoranthene	11.344	252	45745m	1.5462	ppm	
96) Benzo[k]fluoranthene	11.366	252	14571m	0.5473	ppm	
97) Benzo[a]pyrene	11.655	252	32042	1.3083	ppm	91
98) Indeno[1,2,3-cd]pyrene	12.885	276	22883	0.7729	ppm	89
102) Benzo[g,h,i]perylene	13.227	276	25753	1.1193	ppm	98

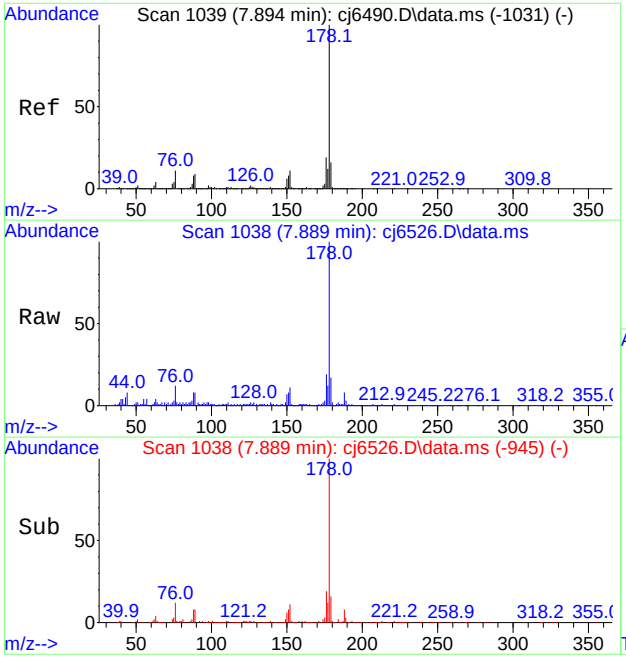
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6526.D
Acq On : 09 May 2024 08:30 pm
Operator : rocquans
Sample : jd87833-11 Inst : GCMSCJ
Misc : op54460,ecj297,30.3,,,1,2
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 10 18:47:52 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

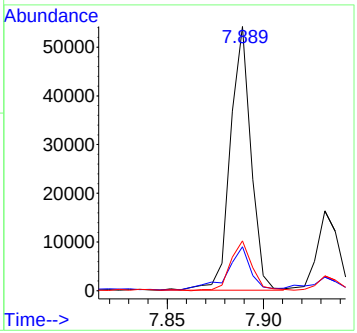


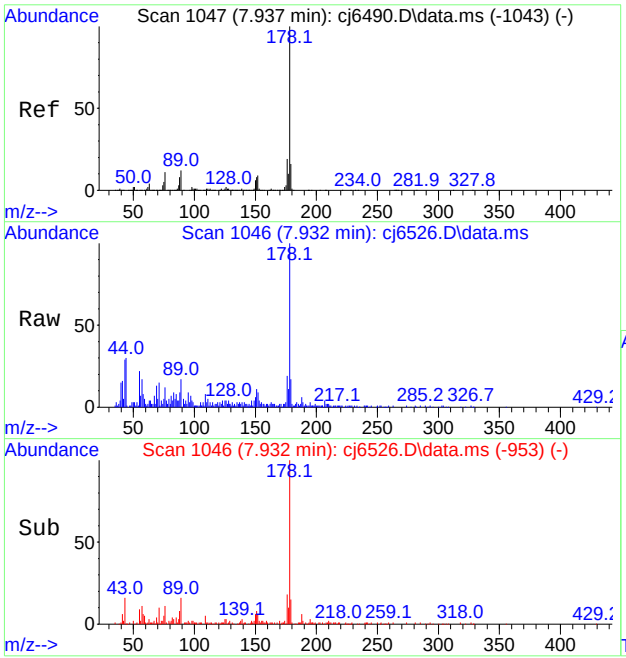


#78
Phenanthrene
Concen: 1.1940 ppm
RT: 7.889 min Scan# 1038
Delta R.T. -0.005 min
Lab File: cj6526.D
Acq: 09 May 2024 08:30 pm

Tgt Ion:178 Resp: 40341

Ion	Ratio	Lower	Upper
178	100		
179	16.0	0.0	45.5
176	18.6	0.0	49.2

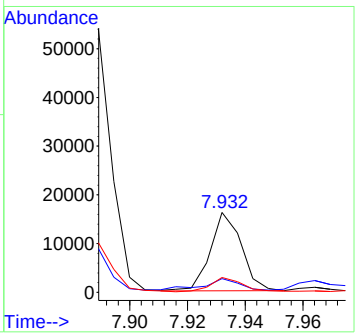


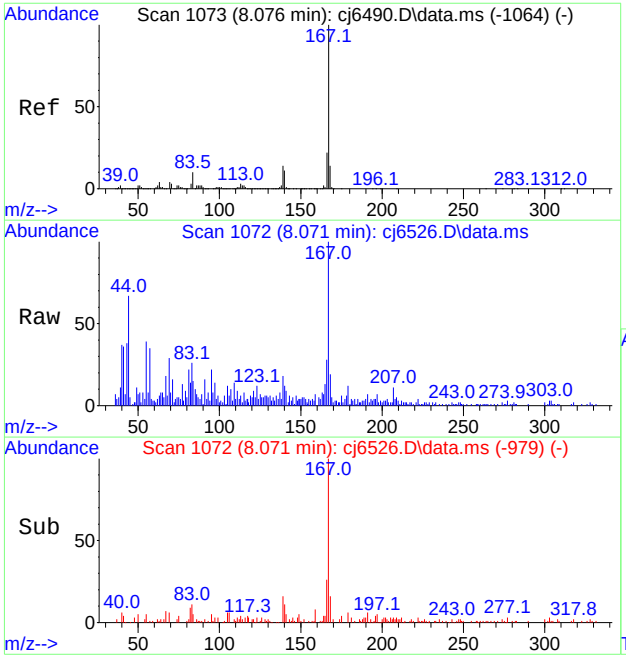


#79
Anthracene
Concen: 0.3575 ppm
RT: 7.932 min Scan# 1046
Delta R.T. -0.005 min
Lab File: cj6526.D
Acq: 09 May 2024 08:30 pm

Tgt Ion:178 Resp: 12094

Ion	Ratio	Lower	Upper
178	100		
179	13.8	0.0	46.1
176	17.3	0.0	48.7

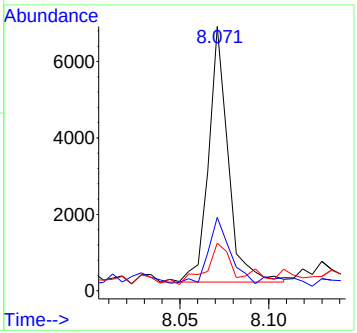


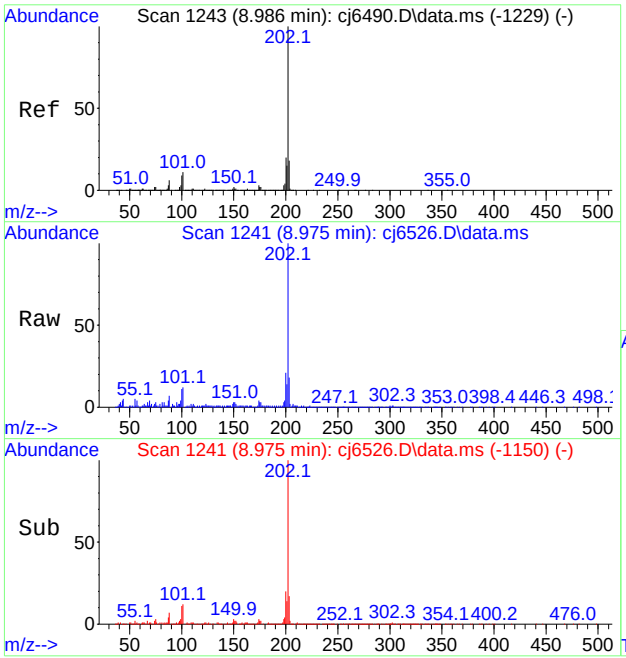


#80
Carbazole
Concen: 0.1628 ppm
RT: 8.071 min Scan# 1072
Delta R.T. -0.005 min
Lab File: cj6526.D
Acq: 09 May 2024 08:30 pm

Tgt Ion:167 Resp: 5131

Ion	Ratio	Lower	Upper
167	100		
166	24.2	0.0	51.7
139	13.0	0.0	43.8

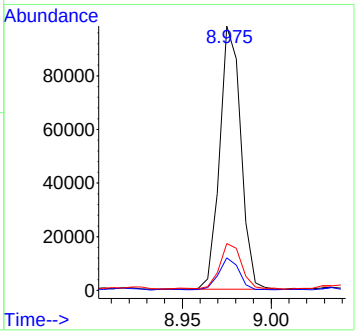


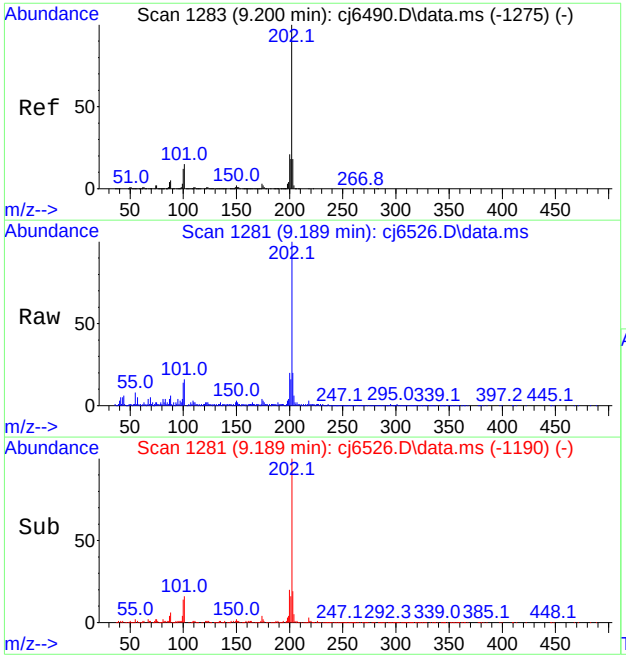


#82
Fluoranthene
Concen: 2.2174 ppm
RT: 8.975 min Scan# 1241
Delta R.T. -0.011 min
Lab File: cj6526.D
Acq: 09 May 2024 08:30 pm

Tgt Ion:202 Resp: 81109

Ion	Ratio	Lower	Upper
202	100		
101	12.0	0.0	41.4
203	17.2	0.0	47.6

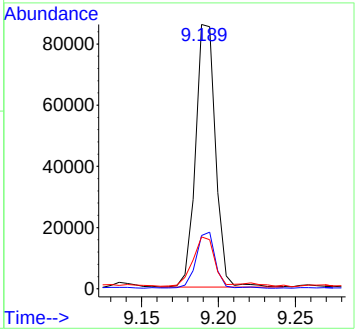


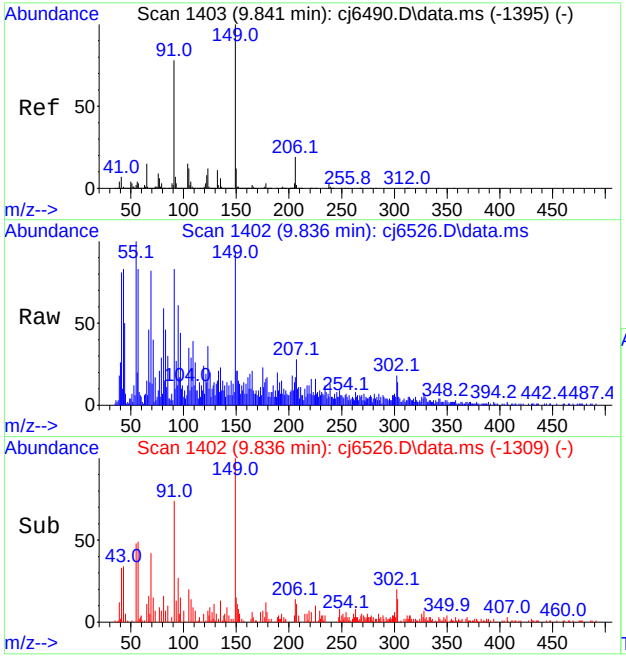


#86
Pyrene
Concen: 2.3341 ppm
RT: 9.189 min Scan# 1281
Delta R.T. -0.011 min
Lab File: cj6526.D
Acq: 09 May 2024 08:30 pm

Tgt Ion:202 Resp: 77978

Ion	Ratio	Lower	Upper
202	100		
200	20.0	0.0	51.4
203	18.6	0.0	47.8

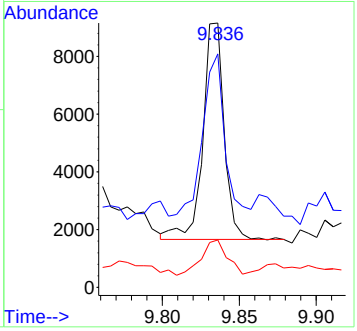


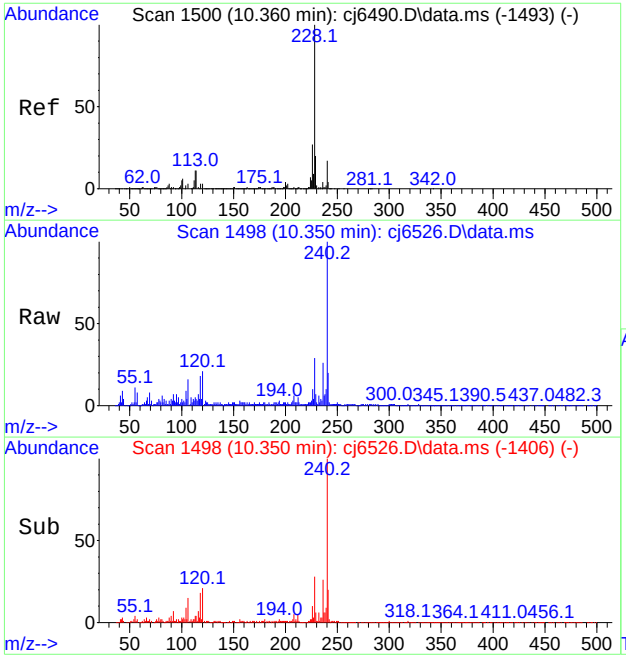


#88
Butylbenzylphthalate
Concen: 0.4847 ppm
RT: 9.836 min Scan# 1402
Delta R.T. -0.005 min
Lab File: cj6526.D
Acq: 09 May 2024 08:30 pm

Tgt Ion:149 Resp: 7224

Ion	Ratio	Lower	Upper
149	100		
91	72.4	47.9	107.9
206	14.1	0.0	48.6

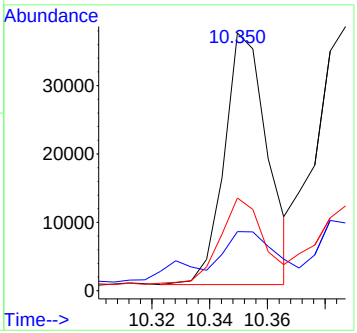


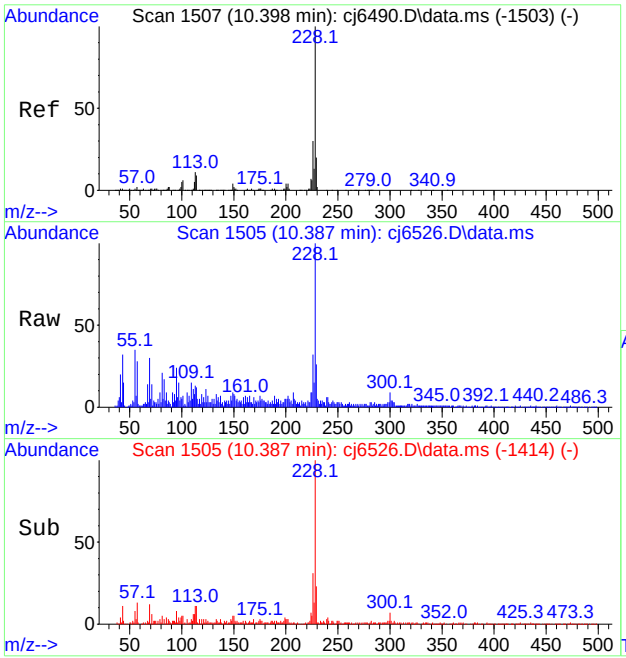


#89
Benzo[a]anthracene
Concen: 1.2140 ppm
RT: 10.350 min Scan# 1498
Delta R.T. -0.010 min
Lab File: cj6526.D
Acq: 09 May 2024 08:30 pm

Tgt Ion:228 Resp: 38345

Ion	Ratio	Lower	Upper
228	100		
229	15.5	0.0	49.8
226	34.9	0.0	57.1

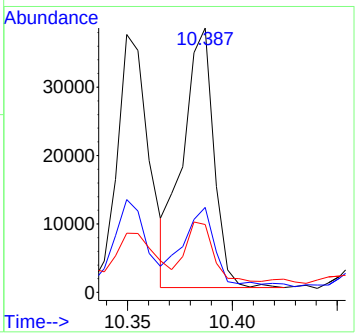


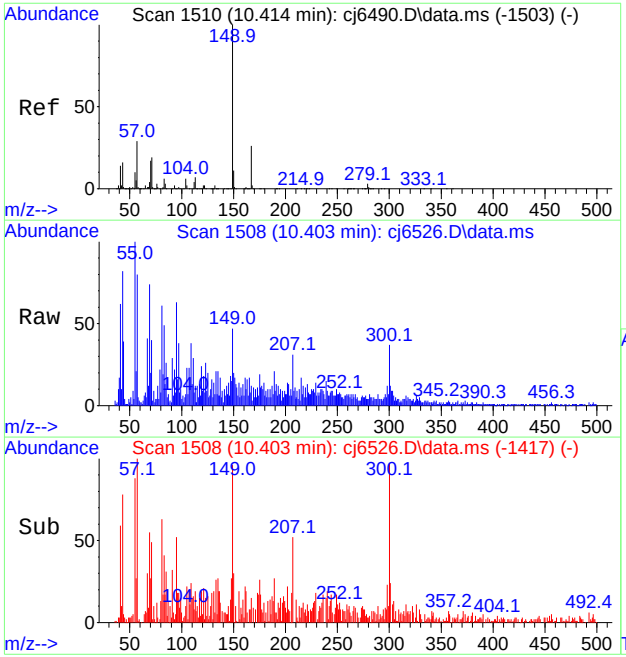


#91
Chrysene
Concen: 1.3467 ppm
RT: 10.387 min Scan# 1505
Delta R.T. -0.011 min
Lab File: cj6526.D
Acq: 09 May 2024 08:30 pm

Tgt Ion:228 Resp: 39244

Ion	Ratio	Lower	Upper
228	100		
226	30.1	0.0	59.9
229	20.3	0.0	49.8

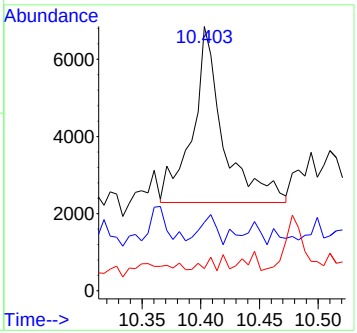


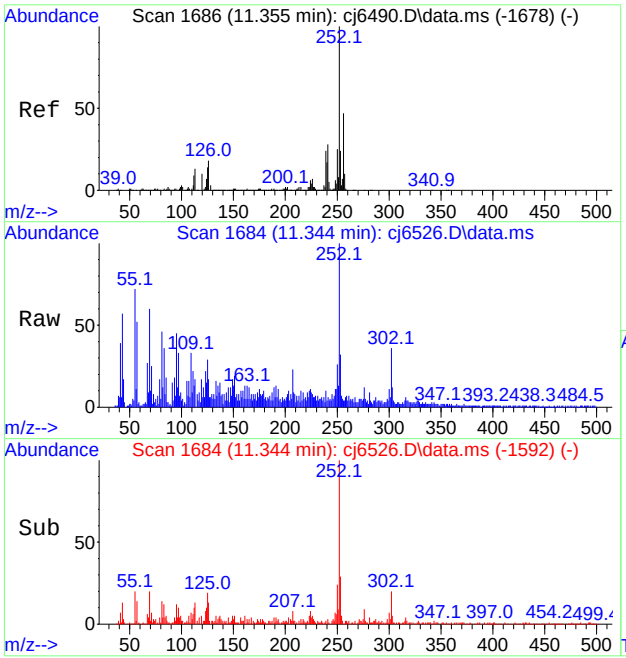


#92
bis(2-Ethylhexyl)phthalate
Concen: 0.3738 ppm m
RT: 10.403 min Scan# 1508
Delta R.T. -0.011 min
Lab File: cj6526.D
Acq: 09 May 2024 08:30 pm

Tgt Ion:149 Resp: 8252

Ion	Ratio	Lower	Upper
149	100		
167	25.9	0.0	56.1
279	8.4	0.0	33.2

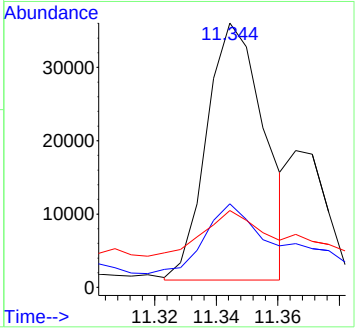


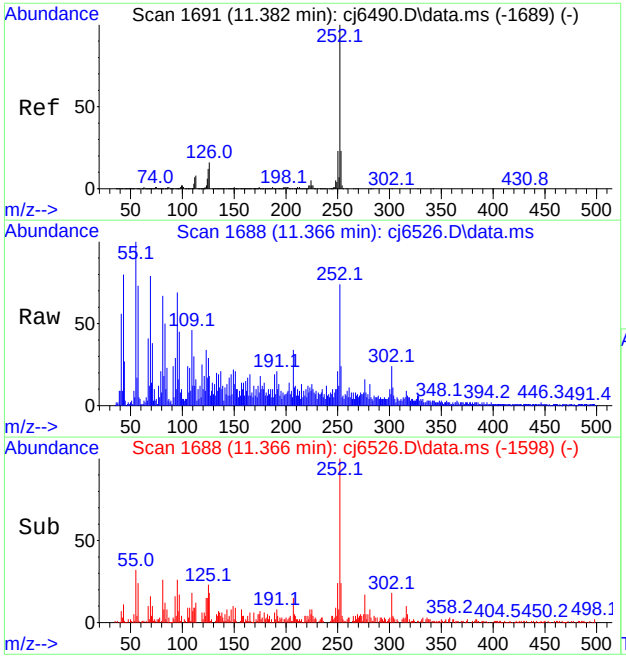


#95
Benzo[b]fluoranthene
Concen: 1.5462 ppm m
RT: 11.344 min Scan# 1684
Delta R.T. -0.011 min
Lab File: cj6526.D
Acq: 09 May 2024 08:30 pm

Tgt Ion:252 Resp: 45745

Ion	Ratio	Lower	Upper
252	100		
253	31.6	0.0	54.7
125	29.1	0.0	44.2

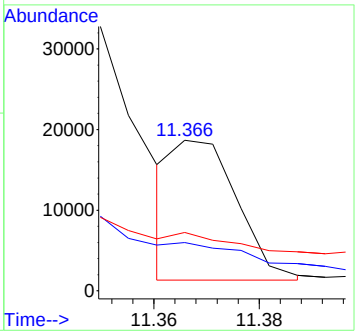


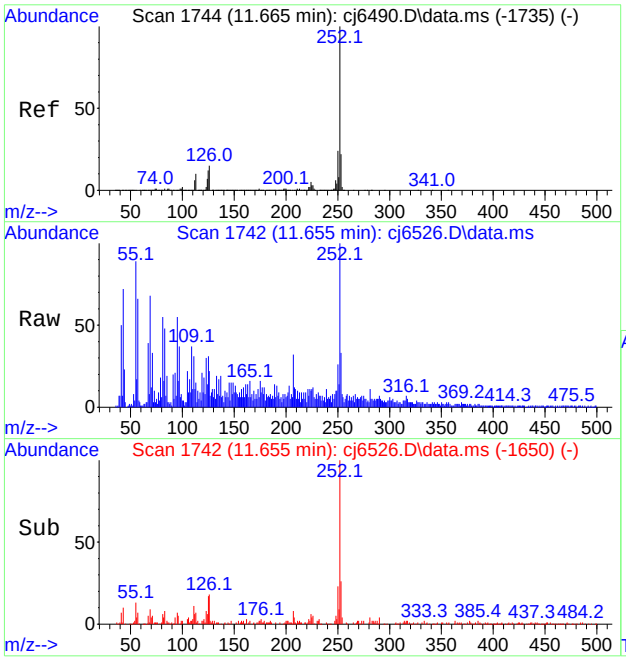


#96
Benzo[k]fluoranthene
Concen: 0.5473 ppm m
RT: 11.366 min Scan# 1688
Delta R.T. -0.016 min
Lab File: cj6526.D
Acq: 09 May 2024 08:30 pm

Tgt Ion:252 Resp: 14571

Ion	Ratio	Lower	Upper
252	100		
253	32.1	0.0	52.6
125	38.8	0.0	42.4

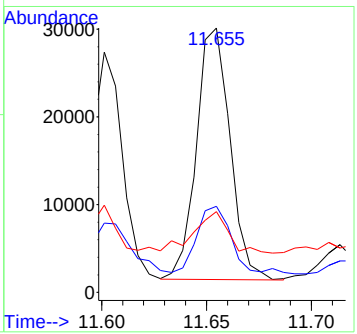


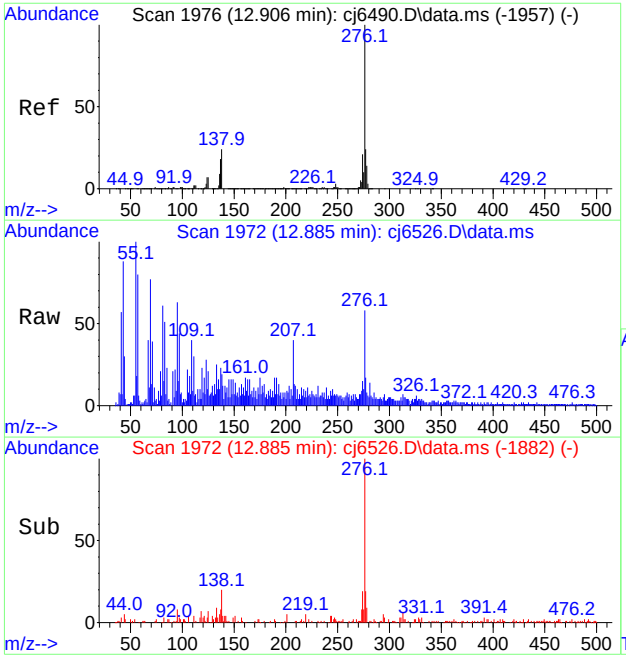


#97
Benzo[a]pyrene
Concen: 1.3083 ppm
RT: 11.655 min Scan# 1742
Delta R.T. -0.010 min
Lab File: cj6526.D
Acq: 09 May 2024 08:30 pm

Tgt Ion:252 Resp: 32042

Ion	Ratio	Lower	Upper
252	100		
253	25.9	0.0	51.9
125	16.0	0.0	42.1

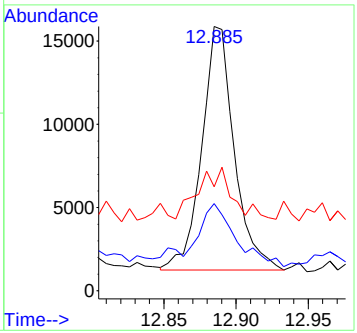


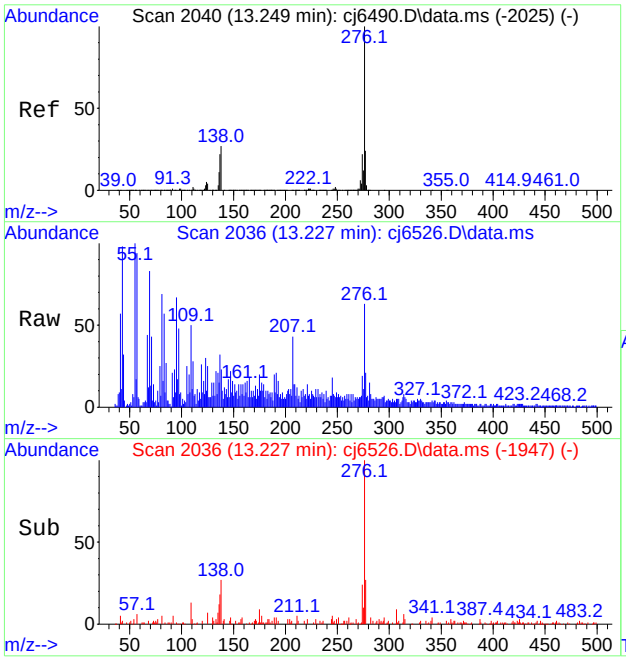


#98
Indeno[1,2,3-cd]pyrene
Concen: 0.7729 ppm
RT: 12.885 min Scan# 1972
Delta R.T. -0.021 min
Lab File: cj6526.D
Acq: 09 May 2024 08:30 pm

Tgt Ion:276 Resp: 22883

Ion	Ratio	Lower	Upper
276	100		
138	24.2	0.0	54.2
137	6.3	0.0	47.9

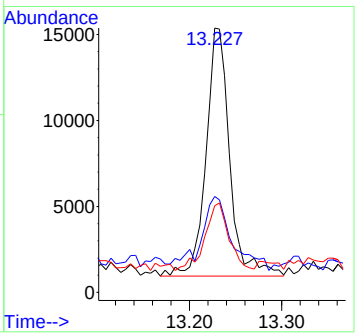




#102
Benzo[g,h,i]perylene
Concen: 1.1193 ppm
RT: 13.227 min Scan# 2036
Delta R.T. -0.022 min
Lab File: cj6526.D
Acq: 09 May 2024 08:30 pm

Tgt Ion:276 Resp: 25753

Ion	Ratio	Lower	Upper
276	100		
138	26.1	0.0	56.7
277	25.1	0.0	54.1



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6526.D
Acq On : 09 May 2024 08:30 pm
Operator : rocquans
Sample : jd87833-11
Misc : op54460,ecj297,30.3,,,1,2
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6526.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.172	339	343	353	rVV	57670	76025	2.08%	0.230%
2	4.247	353	357	363	rVB	412717	243261	6.67%	0.736%
3	4.418	385	389	393	rVB	1194160	741377	20.32%	2.243%
4	4.482	393	401	406	rVB	316860	182146	4.99%	0.551%
5	4.664	430	435	439	rBV	4306518	2353331	64.51%	7.120%
6	4.750	446	451	455	rBV	164643	118063	3.24%	0.357%
7	4.819	458	464	469	rVB	135042	106579	2.92%	0.322%
8	5.012	494	500	503	rBV	1186228	699633	19.18%	2.117%
9	5.466	575	585	590	rBV	5042447	2934376	80.43%	8.878%
10	6.167	712	716	722	rBV	2212044	1398089	38.32%	4.230%
11	6.402	757	760	766	rBV6	19084	31681	0.87%	0.096%
12	6.488	774	776	784	rVB8	12722	20936	0.57%	0.063%
13	6.552	784	788	792	rBV	31481	33384	0.92%	0.101%
14	6.659	802	808	818	rBV	4555619	3412832	93.55%	10.326%
15	6.803	832	835	839	rBV4	19070	23093	0.63%	0.070%
16	6.884	844	850	854	rBV	103121	92470	2.53%	0.280%
17	6.985	862	869	872	rBV2	31258	35312	0.97%	0.107%
18	7.167	892	903	905	rBV3	23877	40709	1.12%	0.123%
19	7.269	918	922	927	rBV	852443	616428	16.90%	1.865%
20	7.376	935	942	950	rBV2	48446	64012	1.75%	0.194%
21	7.574	965	979	987	rBV2	18431	66898	1.83%	0.202%
22	7.761	1008	1014	1018	rBV5	50124	70682	1.94%	0.214%
23	7.793	1018	1020	1025	rVB3	23487	26671	0.73%	0.081%
24	7.868	1025	1034	1041	rBV	4572880	3648176	100.00%	11.038%
25	7.932	1041	1046	1049	rVB2	52820	56856	1.56%	0.172%
26	8.039	1058	1066	1068	rBV8	14439	31304	0.86%	0.095%
27	8.076	1068	1073	1076	rBV3	21387	22707	0.62%	0.069%
28	8.157	1085	1088	1092	rBV2	35880	38376	1.05%	0.116%
29	8.317	1108	1118	1121	rBV5	36341	75930	2.08%	0.230%
30	8.365	1125	1127	1134	rVB3	92140	75473	2.07%	0.228%
31	8.419	1134	1137	1145	rVB2	45939	64440	1.77%	0.195%
32	8.536	1155	1159	1162	rVB	49495	45033	1.23%	0.136%
33	8.611	1164	1173	1178	rBV7	29590	61871	1.70%	0.187%
34	8.713	1181	1192	1194	rBV7	15425	38984	1.07%	0.118%
35	8.831	1208	1214	1216	rBV2	35894	42993	1.18%	0.130%
36	8.905	1226	1228	1233	rBV3	48209	55324	1.52%	0.167%
37	8.975	1233	1241	1246	rBV	236381	211898	5.81%	0.641%
38	9.039	1247	1253	1263	rBV	45697	73094	2.00%	0.221%
39	9.119	1263	1268	1273	rBV7	63479	92263	2.53%	0.279%
40	9.189	1274	1281	1285	rBV	213758	219967	6.03%	0.666%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6526.D
Acq On : 09 May 2024 08:30 pm
Operator : rocquans
Sample : jd87833-11
Misc : op54460,ecj297,30.3,,,1,2
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.242	1285	1291	1293	rBV2	32586	38842	1.06%	0.118%
42	9.269	1293	1296	1299	rVB2	47068	43328	1.19%	0.131%
43	9.317	1299	1305	1307	rBV4	20283	32096	0.88%	0.097%
44	9.349	1307	1311	1317	rBV	1861970	1466735	40.20%	4.438%
45	9.403	1317	1321	1326	rBV7	24231	42889	1.18%	0.130%
46	9.515	1330	1342	1347	rBV4	43676	115763	3.17%	0.350%
47	9.585	1347	1355	1356	rBV4	38104	55603	1.52%	0.168%
48	9.617	1358	1361	1366	rBV2	66898	78281	2.15%	0.237%
49	9.697	1369	1376	1379	rBV3	38018	59445	1.63%	0.180%
50	9.735	1379	1383	1385	rBV5	23098	28420	0.78%	0.086%
51	9.831	1398	1401	1405	rVB4	40922	36972	1.01%	0.112%
52	9.916	1413	1417	1418	rBV4	20828	22822	0.63%	0.069%
53	9.959	1418	1425	1428	rBV	101347	144227	3.95%	0.436%
54	10.002	1428	1433	1435	rBV4	49131	67891	1.86%	0.205%
55	10.066	1441	1445	1449	rBV7	29914	28862	0.79%	0.087%
56	10.162	1457	1463	1465	rBV6	32610	55526	1.52%	0.168%
57	10.178	1465	1466	1470	rBV4	19449	20568	0.56%	0.062%
58	10.285	1477	1486	1490	rBV3	103641	194807	5.34%	0.589%
59	10.360	1492	1500	1511	rBV	3434228	3326073	91.17%	10.064%
60	10.478	1518	1522	1527	rBV2	126722	161415	4.42%	0.488%
61	10.553	1534	1536	1540	rBV5	27882	29128	0.80%	0.088%
62	10.601	1540	1545	1550	rBV3	118514	148857	4.08%	0.450%
63	10.745	1550	1572	1576	rBV3	86143	414541	11.36%	1.254%
64	10.810	1580	1584	1586	rBV4	27233	33769	0.93%	0.102%
65	10.842	1586	1590	1591	rBV4	36594	41323	1.13%	0.125%
66	10.879	1591	1597	1599	rBV6	67345	92858	2.55%	0.281%
67	10.906	1599	1602	1606	rVV	222107	227329	6.23%	0.688%
68	10.943	1607	1609	1612	rVB4	32292	34302	0.94%	0.104%
69	10.997	1613	1619	1625	rBV4	52138	116199	3.19%	0.352%
70	11.050	1625	1629	1631	rVV	99984	101899	2.79%	0.308%
71	11.109	1632	1640	1645	rVV6	96250	313721	8.60%	0.949%
72	11.200	1647	1657	1667	rVV3	146061	420135	11.52%	1.271%
73	11.344	1674	1684	1692	rBV4	160678	466579	12.79%	1.412%
74	11.409	1693	1696	1699	rVV5	39193	51643	1.42%	0.156%
75	11.435	1699	1701	1704	rVB3	52774	47306	1.30%	0.143%
76	11.510	1710	1715	1722	rBV3	206565	355283	9.74%	1.075%
77	11.601	1728	1732	1735	rBV	61545	56756	1.56%	0.172%
78	11.649	1737	1741	1745	rVB	95917	128617	3.53%	0.389%
79	11.714	1747	1753	1761	rBV	2765143	3009891	82.50%	9.107%
80	11.847	1773	1778	1787	rBV3	143528	243277	6.67%	0.736%
81	11.981	1800	1803	1806	rBV5	43190	44552	1.22%	0.135%
82	12.013	1806	1809	1811	rBV4	39147	43802	1.20%	0.133%
83	12.211	1836	1846	1850	rBV2	178941	318244	8.72%	0.963%
84	12.318	1861	1866	1878	rVB10	109676	209908	5.75%	0.635%
85	12.532	1903	1906	1911	rVB7	37040	45241	1.24%	0.137%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6526.D
Acq On : 09 May 2024 08:30 pm
Operator : rocquans
Sample : jd87833-11
Misc : op54460,ecj297,30.3,,,1,2
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.628	1917	1924	1929	rBV2	117265	265303	7.27%	0.803%
87	12.671	1929	1932	1941	rVB4	150658	241757	6.63%	0.731%
88	12.757	1945	1948	1953	rVB7	44616	61419	1.68%	0.186%
89	12.863	1961	1968	1970	rBV8	65619	117101	3.21%	0.354%
90	12.960	1984	1986	1996	rVB8	29666	57690	1.58%	0.175%
91	13.110	2007	2014	2017	rBV4	81096	159861	4.38%	0.484%
92	13.227	2027	2036	2041	rBV5	41036	118817	3.26%	0.360%
93	13.409	2063	2070	2077	rVB5	120157	224301	6.15%	0.679%
94	13.495	2082	2086	2091	rBV8	28063	56009	1.54%	0.169%
95	13.559	2092	2098	2108	rVB8	43853	115761	3.17%	0.350%
96	13.639	2111	2113	2114	rBV2	27710	22702	0.62%	0.069%
97	13.832	2147	2149	2163	rVB2	37972	107598	2.95%	0.326%
98	13.960	2171	2173	2176	rBV4	21140	29741	0.82%	0.090%
99	14.217	2213	2221	2225	rBV4	43308	98230	2.69%	0.297%
100	14.329	2237	2242	2251	rVB10	51337	115743	3.17%	0.350%

Sum of corrected areas: 33050435

LSC Report - Integrated Chromatogram

```
Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6526.D
Acq On    : 09 May 2024  08:30 pm
Operator  : rocquans
Sample    : jd87833-11
Misc      : op54460,ecj297,30.3,,,1,2
ALS Vial  : 17   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title  : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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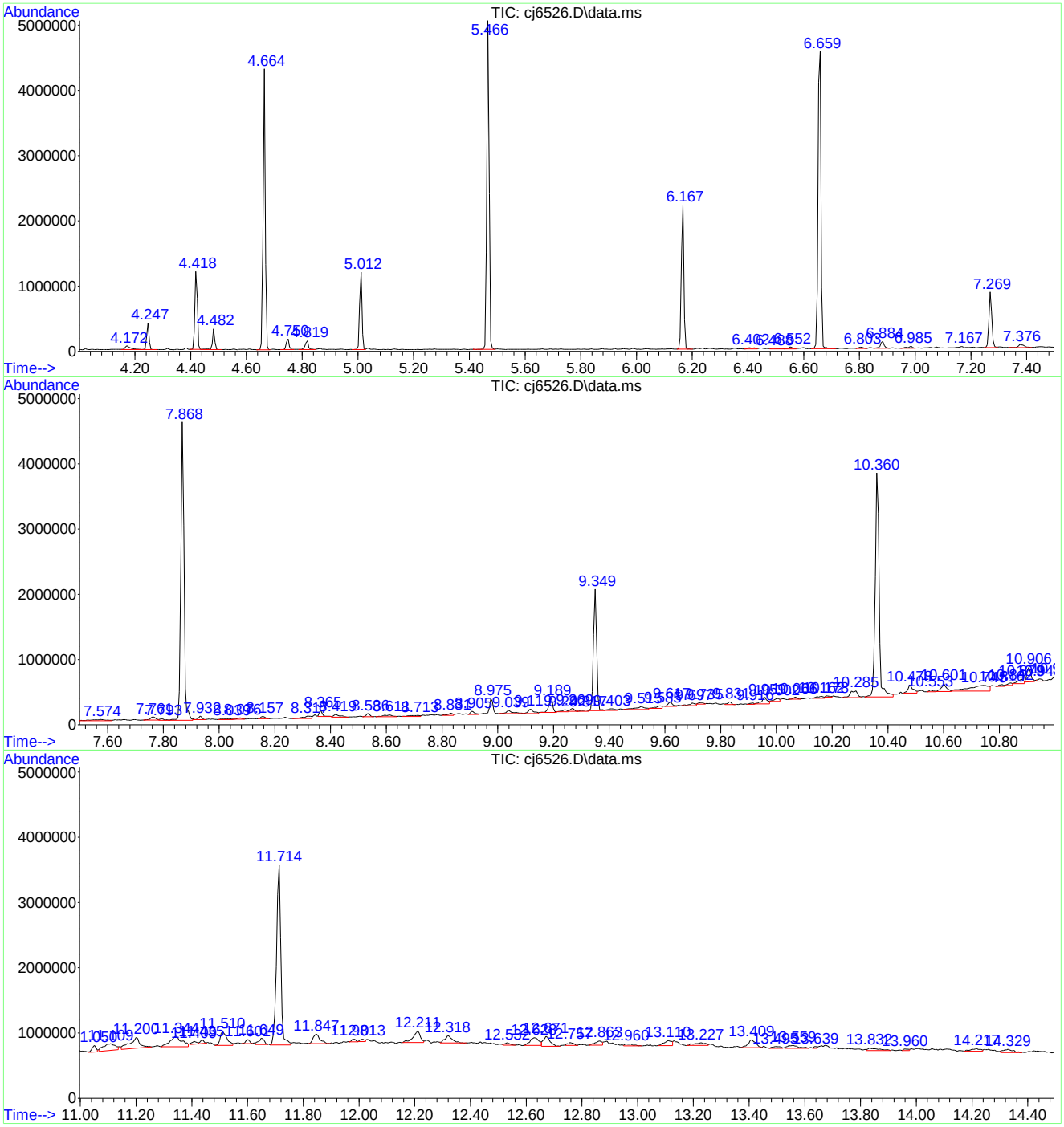


Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6526.D
Acq On : 09 May 2024 08:30 pm
Operator : rocquans
Sample : jd87833-11
Misc : op54460,ecj297,30.3,,,1,2
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

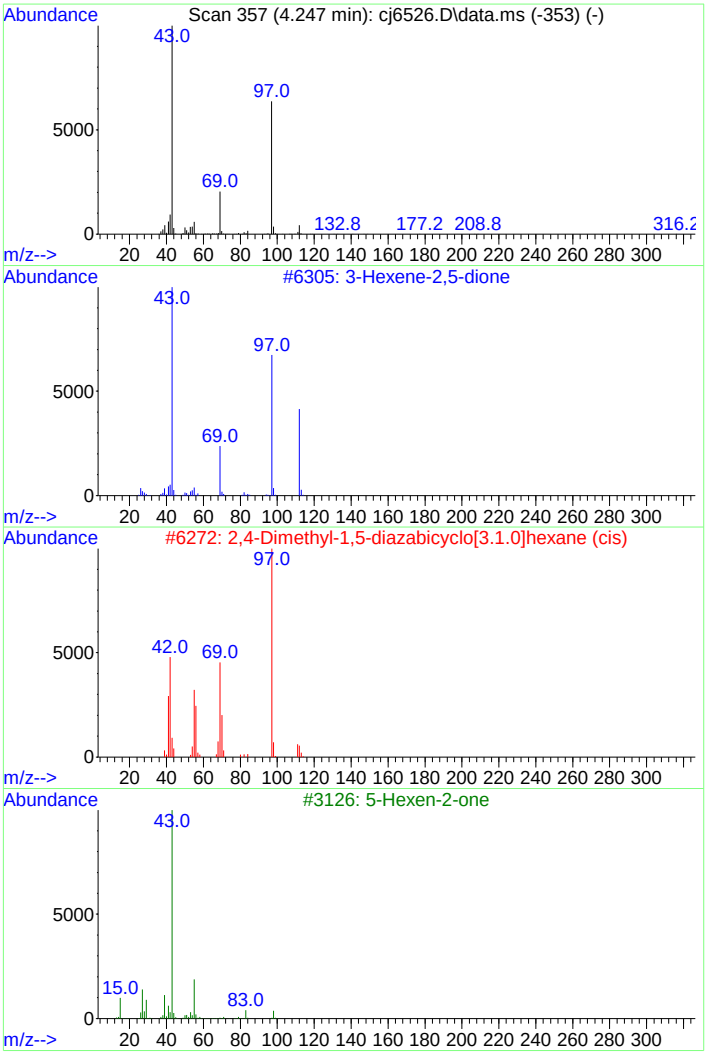
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

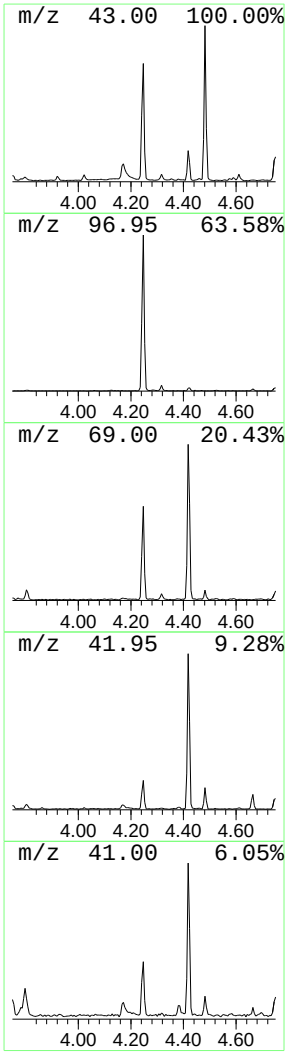
****

Peak Number 1 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.247	4.13 ppm	243261	1,4-Dichlorobenzene-d4a	4.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexene-2,5-dione	112	C6H8O2	004436-75-3	40
2	2,4-Dimethyl-1,5-diazabicyclo[3....	112	C6H12N2	100463-01-2	28
3	5-Hexen-2-one	98	C6H10O	000109-49-9	10
4	Pentanenitrile	83	C5H9N	000110-59-8	9
5	Oxazole, 2,4-dimethyl-	97	C5H7NO	007208-05-1	9





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6526.D
Acq On : 09 May 2024 08:30 pm
Operator : rocquans
Sample : jd87833-11
Misc : op54460,ecj297,30.3,,,1,2
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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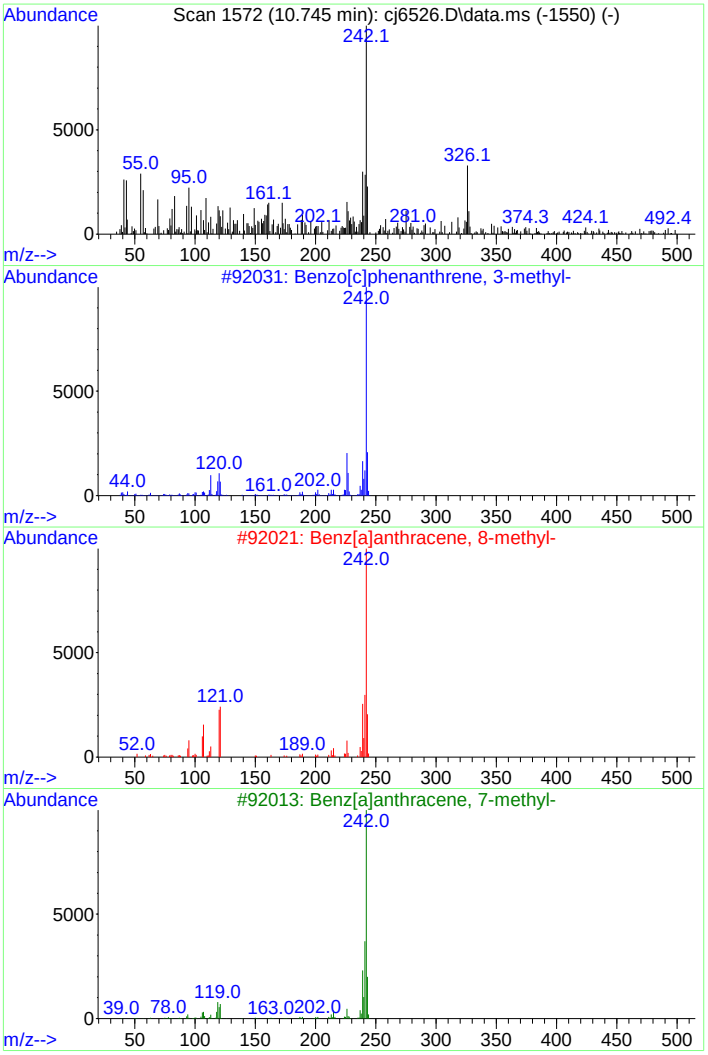
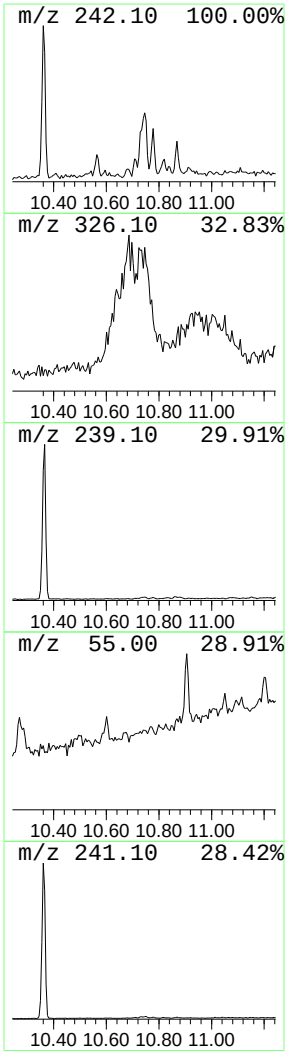
Peak Number 2 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.745	4.99 ppm	414541	Chrysene-d12a	10.360

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]phenanthrene, 3-methyl-	242	C19H14	002381-19-3	64
2	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	60
3	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	55
4	Benz[a]anthracene, 11-methyl-	242	C19H14	006111-78-0	55
5	Benzo[c]phenanthrene, 6-methyl-	242	C19H14	002381-34-2	50





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6526.D
Acq On : 09 May 2024 08:30 pm
Operator : rocquans
Sample : jd87833-11
Misc : op54460,ecj297,30.3,,,1,2
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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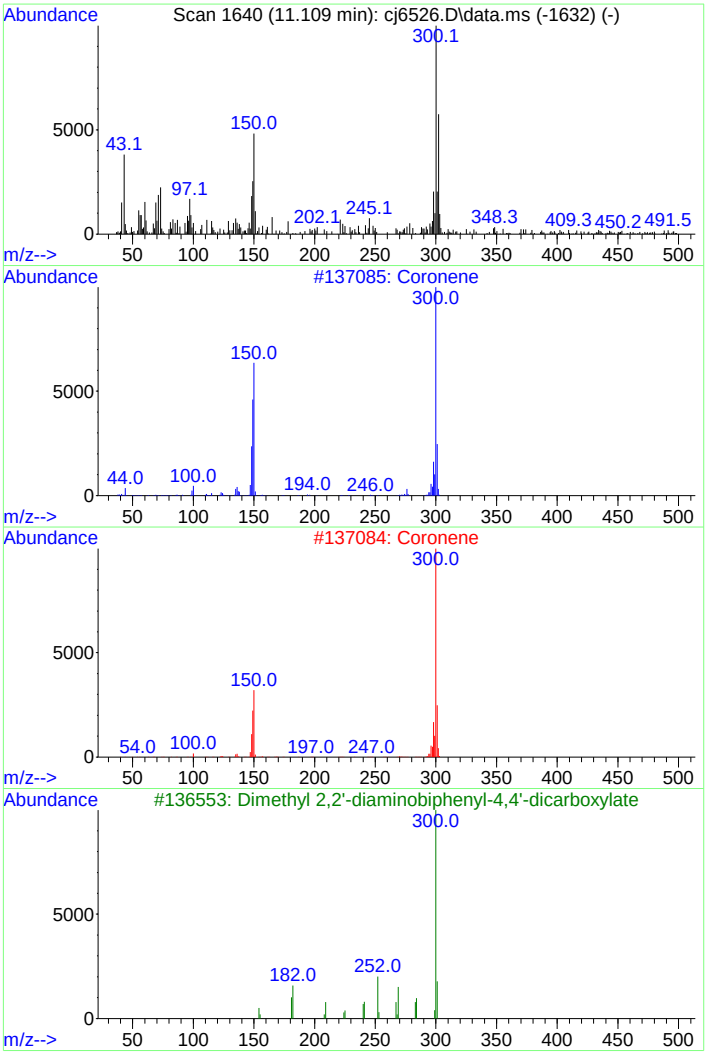
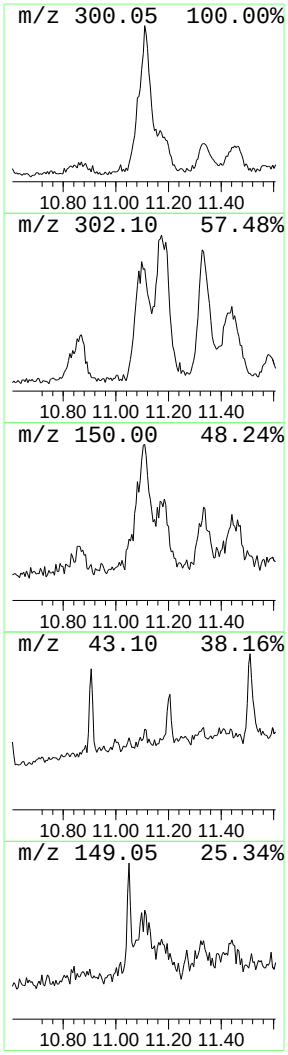
Peak Number 3 Unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.109	4.17 ppm	313721	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Coronene	300	C24H12	000191-07-1	60
2	Coronene	300	C24H12	000191-07-1	47
3	Dimethyl 2,2'-diaminobiphenyl-4,...	300	C16H16N2O4	023933-57-5	43
4	4-Formyl-2-methoxyphenyl 5-formy...	300	C16H12O6	1000242-81-0	38
5	Acridin-9-yl-(4-methoxy-phenyl)-...	300	C20H16N2O	1000317-35-5	35





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6526.D
Acq On : 09 May 2024 08:30 pm
Operator : rocquans
Sample : jd87833-11
Misc : op54460,ecj297,30.3,,,1,2
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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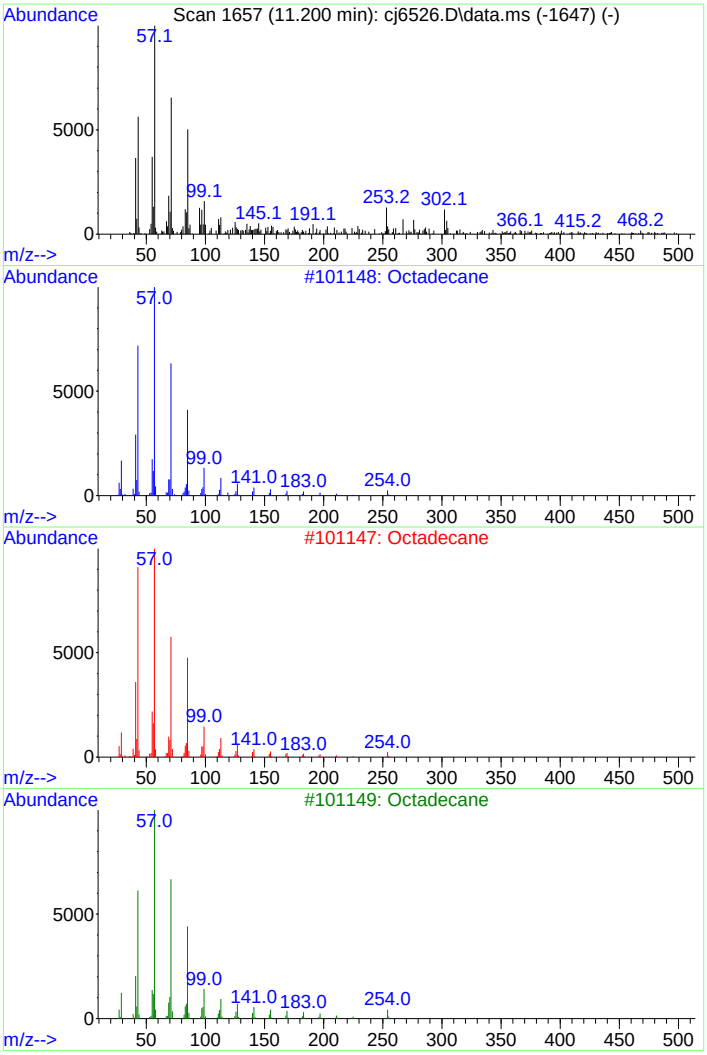
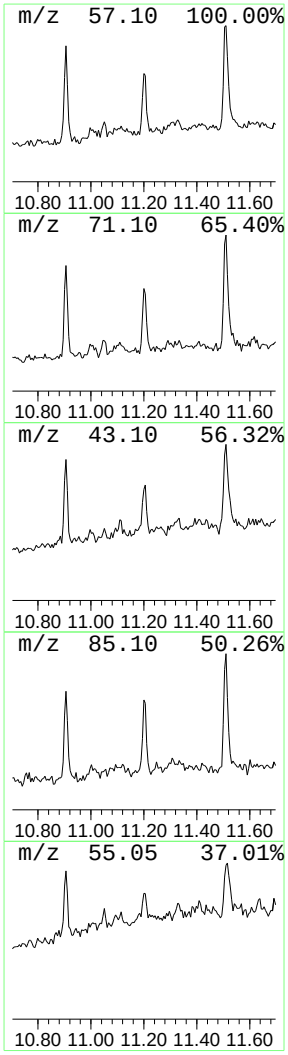
Peak Number 4 Octadecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.200	5.58 ppm	420135	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	86
2	Octadecane	254	C18H38	000593-45-3	86
3	Octadecane	254	C18H38	000593-45-3	86
4	Eicosane	282	C20H42	000112-95-8	70
5	Hexadecane	226	C16H34	000544-76-3	70





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6526.D
Acq On : 09 May 2024 08:30 pm
Operator : rocquans
Sample : jd87833-11
Misc : op54460,ecj297,30.3,,,1,2
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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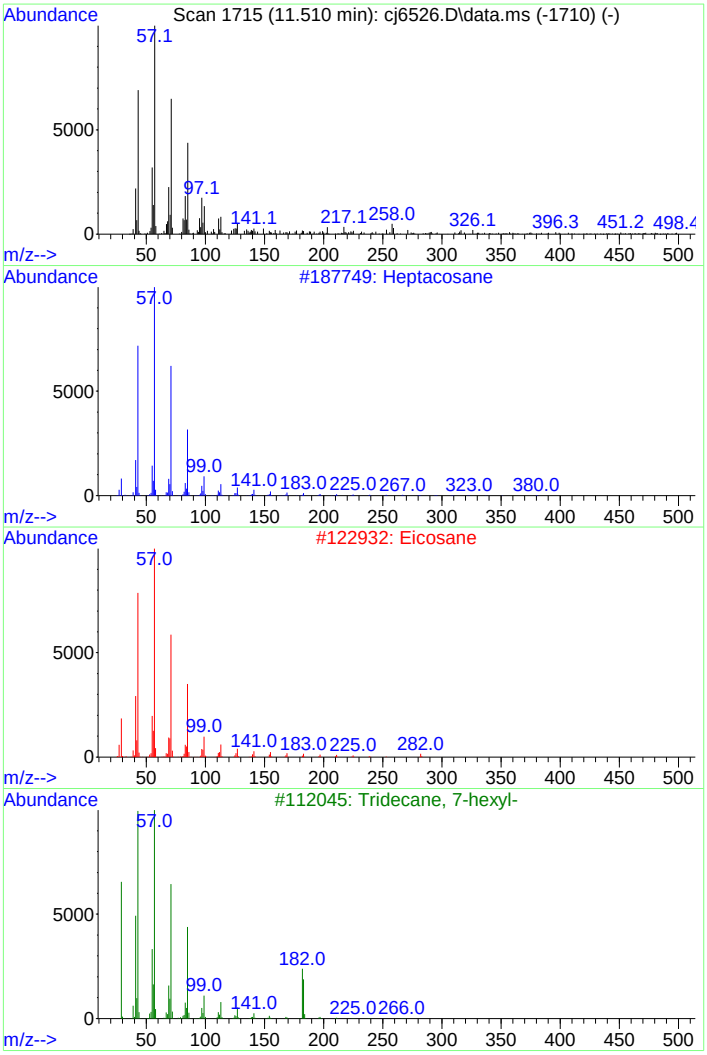
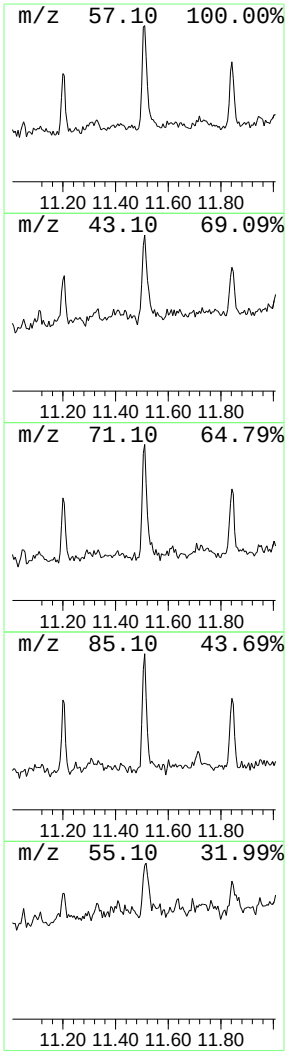
Peak Number 5 Alkane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.510	4.72 ppm	355283	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	93
2	Eicosane	282	C20H42	000112-95-8	80
3	Tridecane, 7-hexyl-	268	C19H40	007225-66-3	80
4	Tetratriacontane, 17-hexadecyl-	703	C50H102	055256-07-0	80
5	Sulfurous acid, 2-propyl tridecy...	306	C16H34O3S	1000309-12-4	80





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6526.D
Acq On : 09 May 2024 08:30 pm
Operator : rocquans
Sample : jd87833-11
Misc : op54460,ecj297,30.3,,,1,2
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

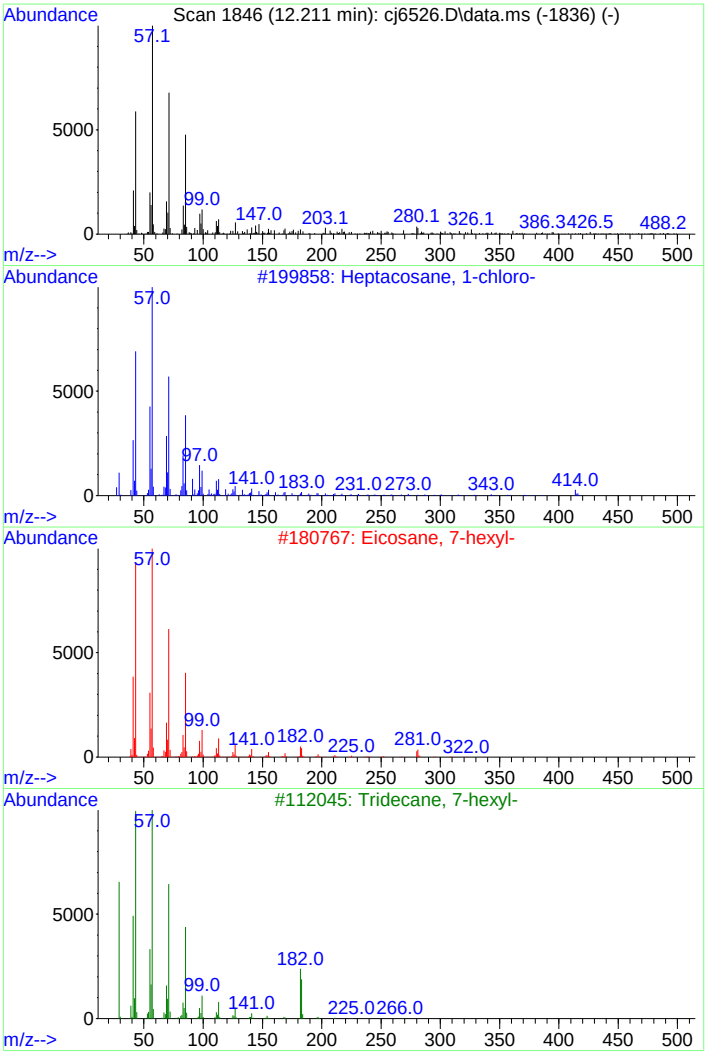
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

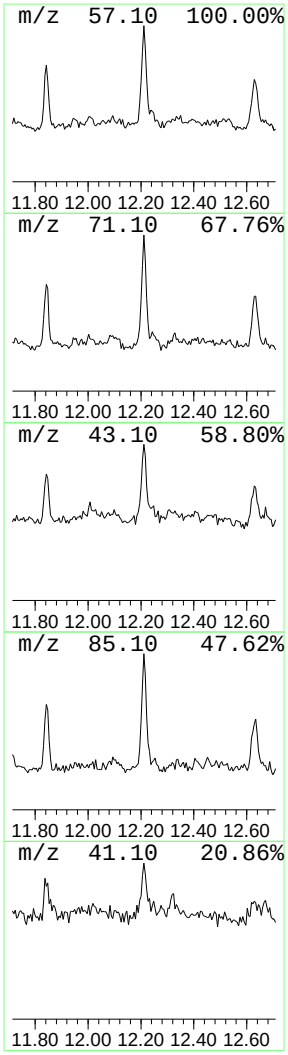
****

Peak Number 6 Alkane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.211	4.23 ppm	318244	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane, 1-chloro-	414	C27H55Cl	062016-79-9	90
2	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	86
3	Tridecane, 7-hexyl-	268	C19H40	007225-66-3	83
4	Tetracosane	338	C24H50	000646-31-1	83
5	Heneicosane	296	C21H44	000629-94-7	80





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6526.D
Acq On : 09 May 2024 08:30 pm
Operator : rocquans
Sample : jd87833-11
Misc : op54460,ecj297,30.3,,,1,2
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.247	4.1	ppm	243261	2	4.664	2353330	40.0
Unknown	10.745	5.0	ppm	414541	10	10.360	3326070	40.0
Unknown	11.109	4.2	ppm	313721	11	11.714	3009890	40.0
Octadecane	11.200	5.6	ppm	420135	11	11.714	3009890	40.0
Alkane	11.510	4.7	ppm	355283	11	11.714	3009890	40.0
Alkane	12.211	4.2	ppm	318244	11	11.714	3009890	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 05/13/24 01:29

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12 Inst : GCMSCJ
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: May 10 19:34:53 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

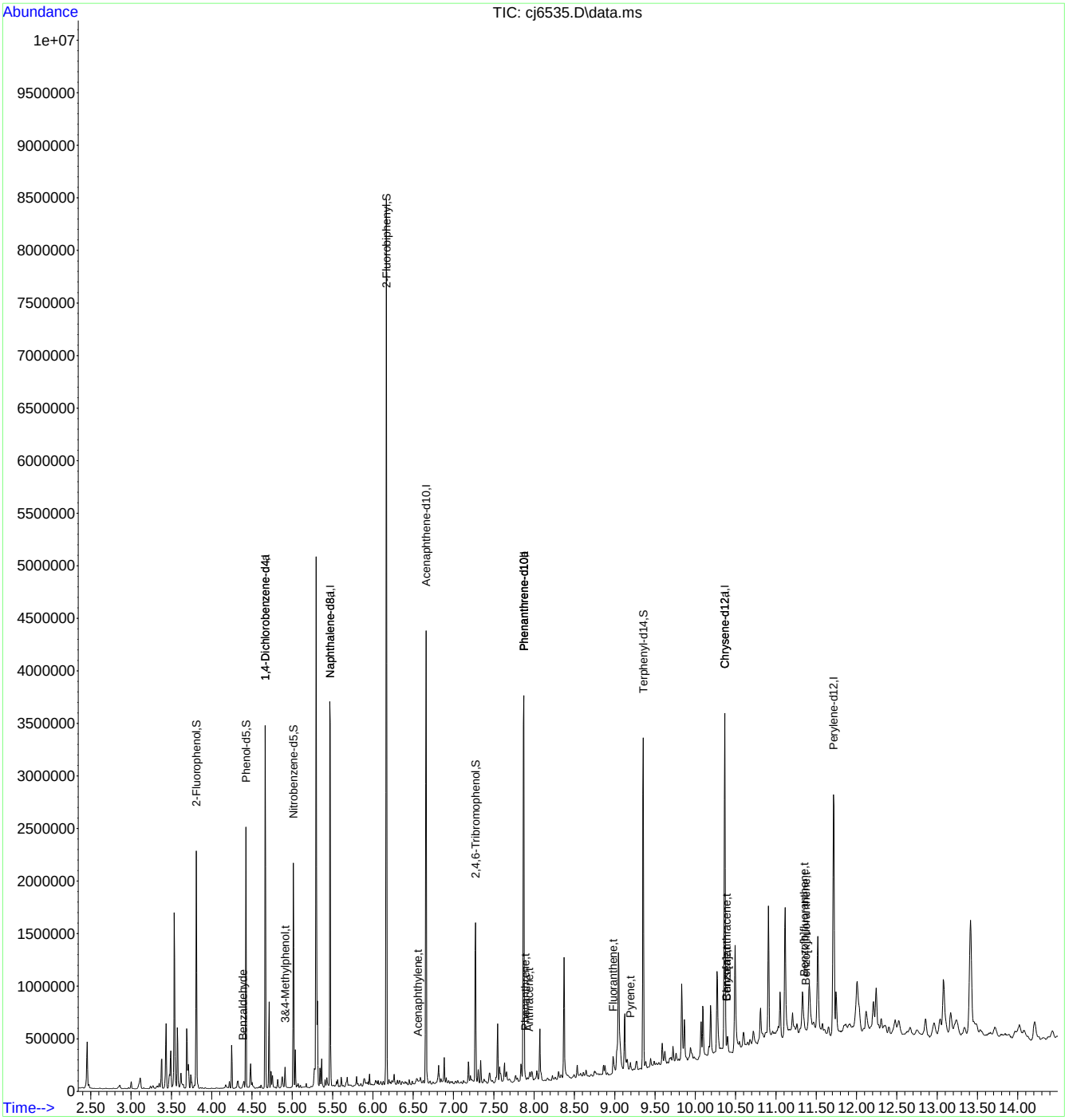
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.664	152	345198	40.00	ppm	0.00
24) Naphthalene-d8	5.471	136	1198124	40.00	ppm	0.00
46) Acenaphthene-d10	6.659	164	666886	40.00	ppm	0.00
69) Phenanthrene-d10	7.873	188	1177594	40.00	ppm	0.00
84) Chrysene-d12	10.366	240	836561	40.00	ppm	0.00
93) Perylene-d12	11.713	264	874160	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.664	152	345198	40.00	ppm	0.00
105) Phenanthrene-d10a	7.873	188	1177594	40.00	ppm	0.00
107) Naphthalene-d8a	5.471	136	1198124	40.00	ppm	0.00
109) Phenanthrene-d10b	7.873	188	1177594	40.00	ppm	0.00
112) Chrysene-d12a	10.366	240	836561	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.808	112	361259	36.41	ppm	0.01
Spiked Amount 50.000			Recovery = 72.82%			
8) Phenol-d5	4.423	99	476850	37.26	ppm	0.00
Spiked Amount 50.000			Recovery = 74.52%			
25) Nitrobenzene-d5	5.011	82	466049	37.99	ppm	0.00
Spiked Amount 50.000			Recovery = 75.98%			
51) 2-Fluorobiphenyl	6.167	172	827516	39.43	ppm	0.00
Spiked Amount 50.000			Recovery = 78.86%			
74) 2,4,6-Tribromophenol	7.274	330	122958	47.62	ppm	0.00
Spiked Amount 50.000			Recovery = 95.24%			
87) Terphenyl-d14	9.355	244	892575	43.18	ppm	0.00
Spiked Amount 50.000			Recovery = 86.36%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
21) 3&4-Methylphenol	4.910	108	22693	2.3039	ppm	96
56) Acenaphthylene	6.557	152	9920	0.3835	ppm	88
78) Phenanthrene	7.889	178	11946	0.4198	ppm	97
79) Anthracene	7.937	178	4022	0.1411	ppm	96
82) Fluoranthene	8.980	202	22632	0.7346	ppm	93
86) Pyrene	9.194	202	20796	0.7310	ppm	94
89) Benzo[a]anthracene	10.387	228	11464	0.4262	ppm	94
91) Chrysene	10.387	228	11464	0.4620	ppm	97
95) Benzo[b]fluoranthene	11.350	252	15545m	0.5887	ppm	
96) Benzo[k]fluoranthene	11.371	252	3276m	0.1379	ppm	
104) Benzaldehyde	4.386	105	2617	0.2648	ppm	89

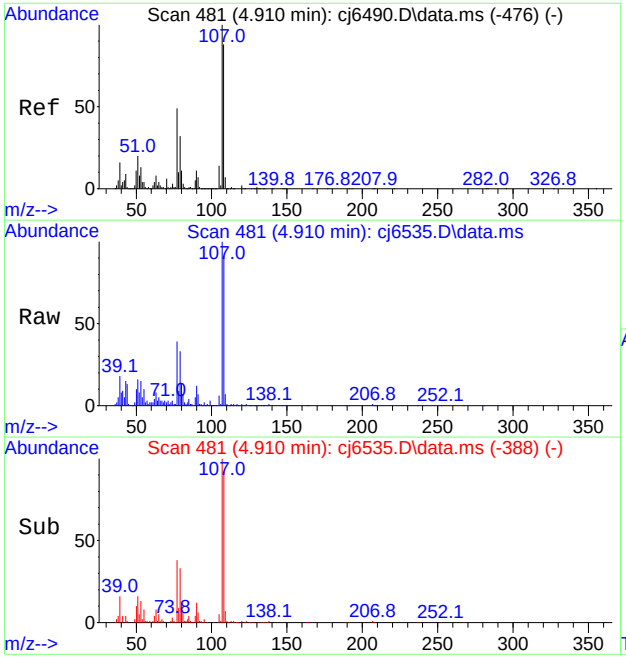
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12 Inst : GCMSCJ
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: May 10 19:34:53 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

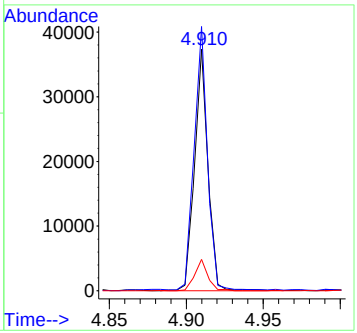


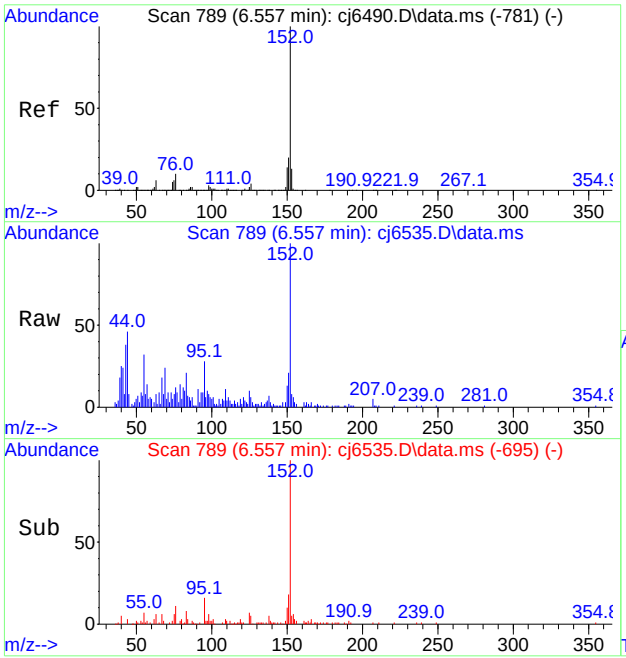


#21
3&4-Methylphenol
Concen: 2.3039 ppm
RT: 4.910 min Scan# 481
Delta R.T. -0.000 min
Lab File: cj6535.D
Acq: 09 May 2024 11:19 pm

Tgt Ion:108 Resp: 22693

Ion	Ratio	Lower	Upper
108	100		
107	109.1	83.2	143.2
90	12.9	0.0	42.4

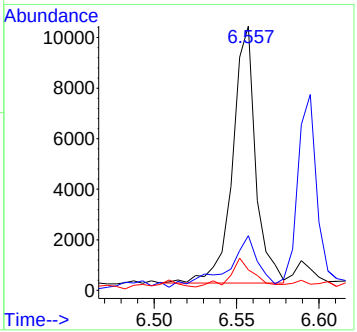


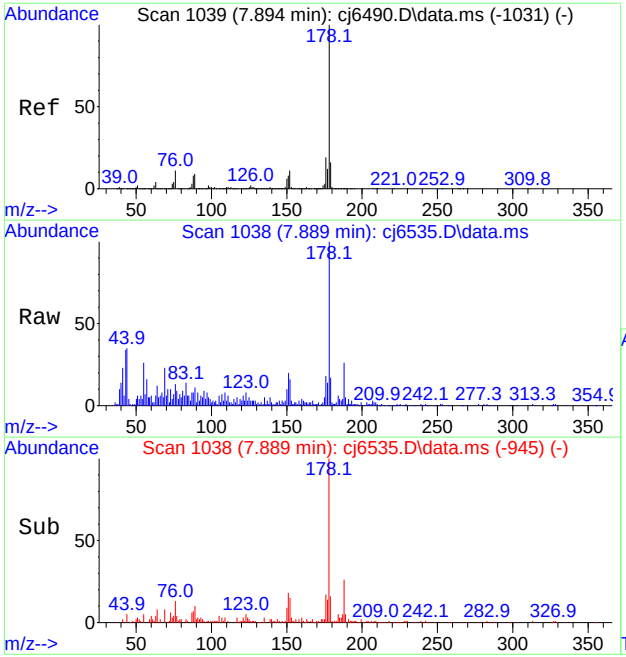


#56
Acenaphthylene
Concen: 0.3835 ppm
RT: 6.557 min Scan# 789
Delta R.T. 0.000 min
Lab File: cj6535.D
Acq: 09 May 2024 11:19 pm

Tgt Ion:152 Resp: 9920

Ion	Ratio	Lower	Upper
152	100		
151	17.5	0.0	50.3
153	5.4	0.0	43.4

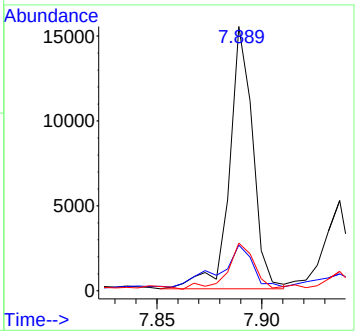


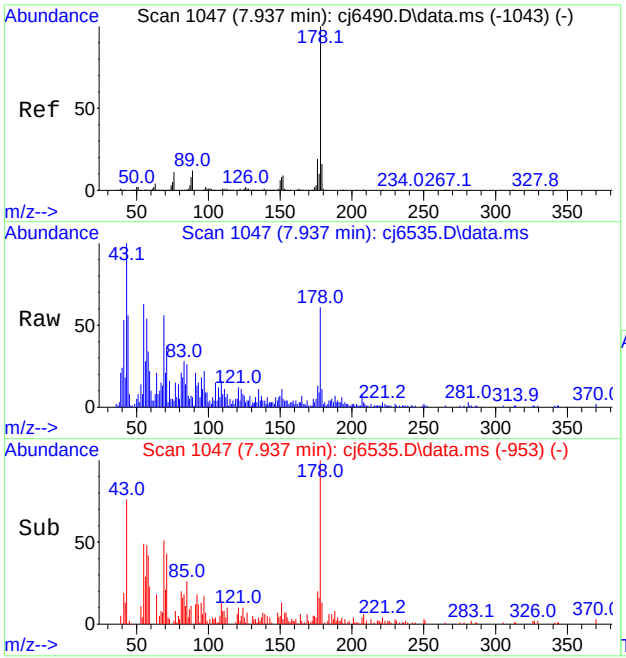


#78
Phenanthrene
Concen: 0.4198 ppm
RT: 7.889 min Scan# 1038
Delta R.T. -0.005 min
Lab File: cj6535.D
Acq: 09 May 2024 11:19 pm

Tgt Ion:178 Resp: 11946

Ion	Ratio	Lower	Upper
178	100		
179	15.3	0.0	45.5
176	16.7	0.0	49.2

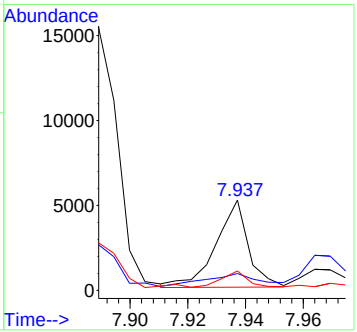


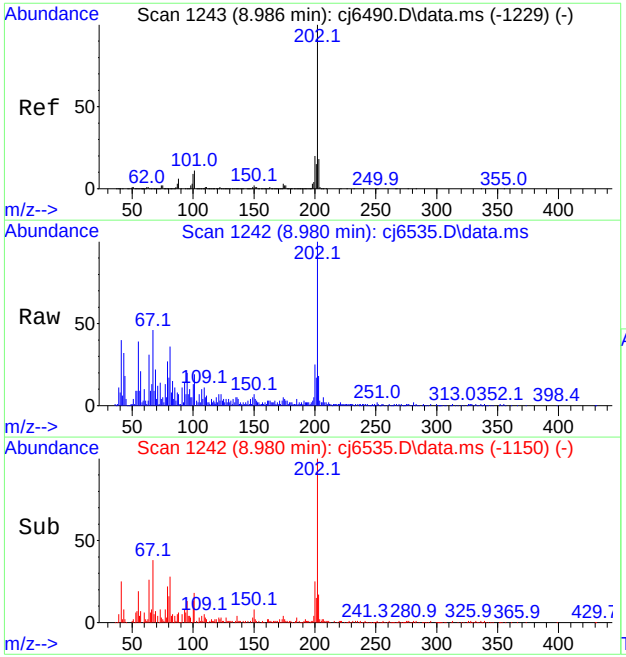


#79
Anthracene
Concen: 0.1411 ppm
RT: 7.937 min Scan# 1047
Delta R.T. 0.000 min
Lab File: cj6535.D
Acq: 09 May 2024 11:19 pm

Tgt Ion:178 Resp: 4022

Ion	Ratio	Lower	Upper
178	100		
179	13.0	0.0	46.1
176	18.2	0.0	48.7

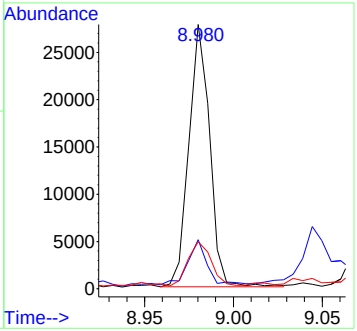


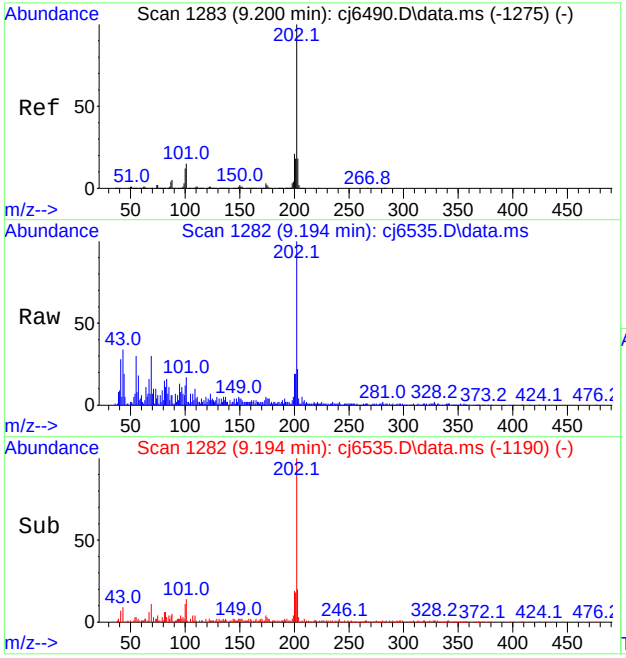


#82
Fluoranthene
Concen: 0.7346 ppm
RT: 8.980 min Scan# 1242
Delta R.T. -0.006 min
Lab File: cj6535.D
Acq: 09 May 2024 11:19 pm

Tgt Ion:202 Resp: 22632

Ion	Ratio	Lower	Upper
202	100		
101	16.3	0.0	41.4
203	16.1	0.0	47.6

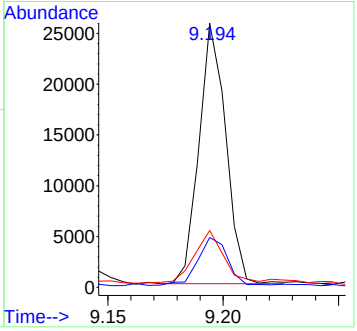


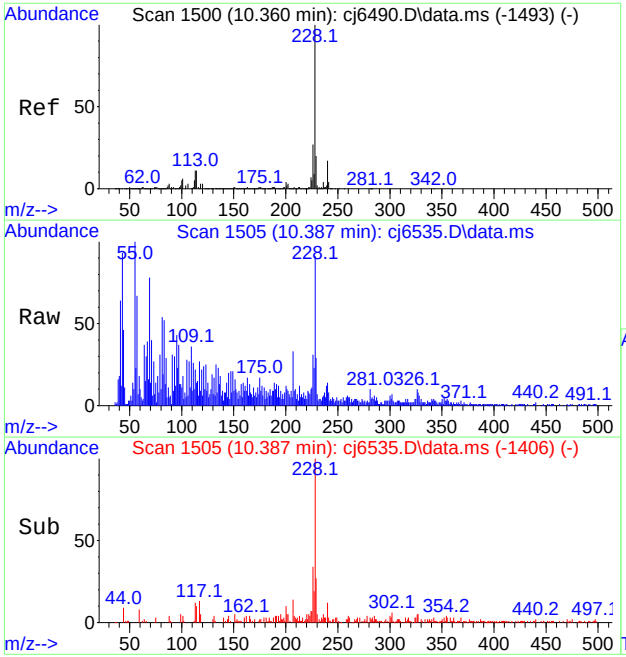


#86
Pyrene
Concen: 0.7310 ppm
RT: 9.194 min Scan# 1282
Delta R.T. -0.006 min
Lab File: cj6535.D
Acq: 09 May 2024 11:19 pm

Tgt Ion:202 Resp: 20796

Ion	Ratio	Lower	Upper
202	100		
200	18.1	0.0	51.4
203	19.5	0.0	47.8

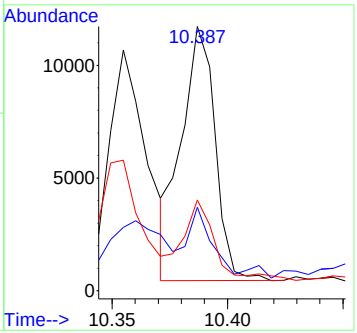


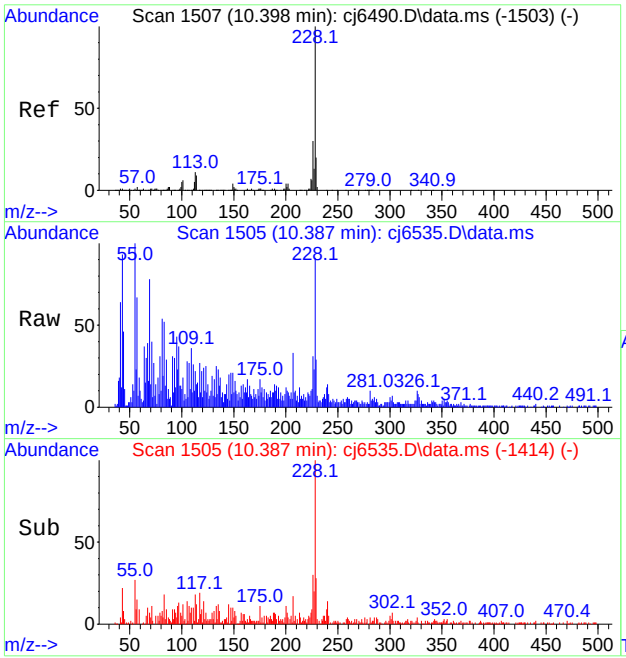


#89
Benzo[a]anthracene
Concen: 0.4262 ppm
RT: 10.387 min Scan# 1505
Delta R.T. 0.027 min
Lab File: cj6535.D
Acq: 09 May 2024 11:19 pm

Tgt Ion:228 Resp: 11464

Ion	Ratio	Lower	Upper
228	100		
229	21.3	0.0	49.8
226	31.4	0.0	57.1

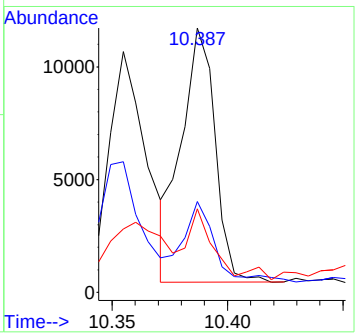


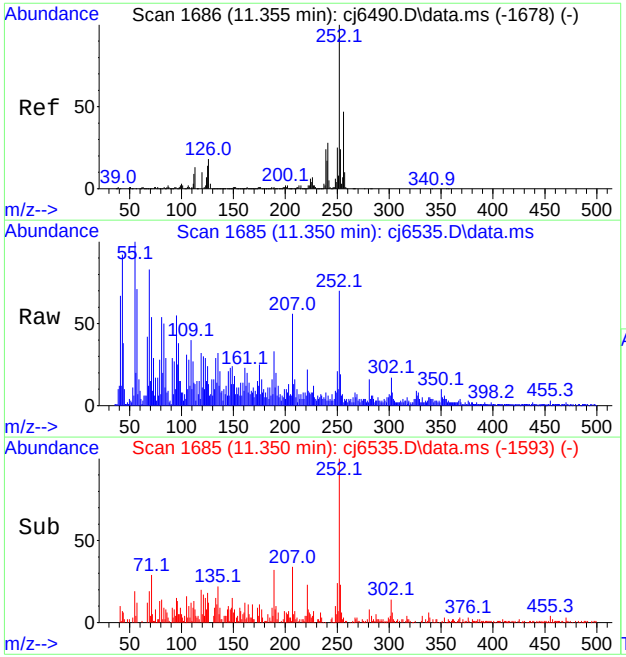


#91
Chrysene
Concen: 0.4620 ppm
RT: 10.387 min Scan# 1505
Delta R.T. -0.011 min
Lab File: cj6535.D
Acq: 09 May 2024 11:19 pm

Tgt Ion:228 Resp: 11464

Ion	Ratio	Lower	Upper
228	100		
226	31.4	0.0	59.9
229	21.3	0.0	49.8

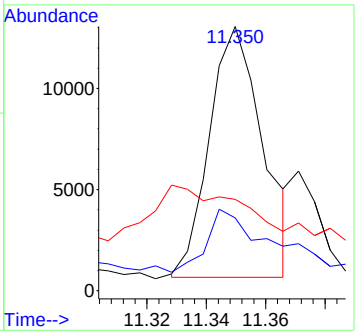


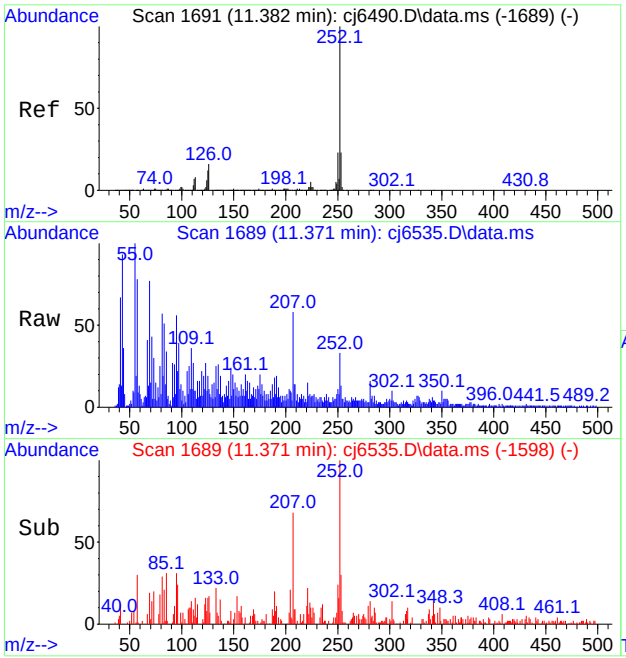


#95
Benzo[b]fluoranthene
Concen: 0.5887 ppm m
RT: 11.350 min Scan# 1685
Delta R.T. -0.005 min
Lab File: cj6535.D
Acq: 09 May 2024 11:19 pm

Tgt Ion:252 Resp: 15545

Ion	Ratio	Lower	Upper
252	100		
253	27.6	0.0	54.7
125	34.6	0.0	44.2

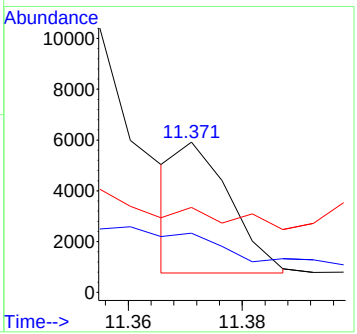


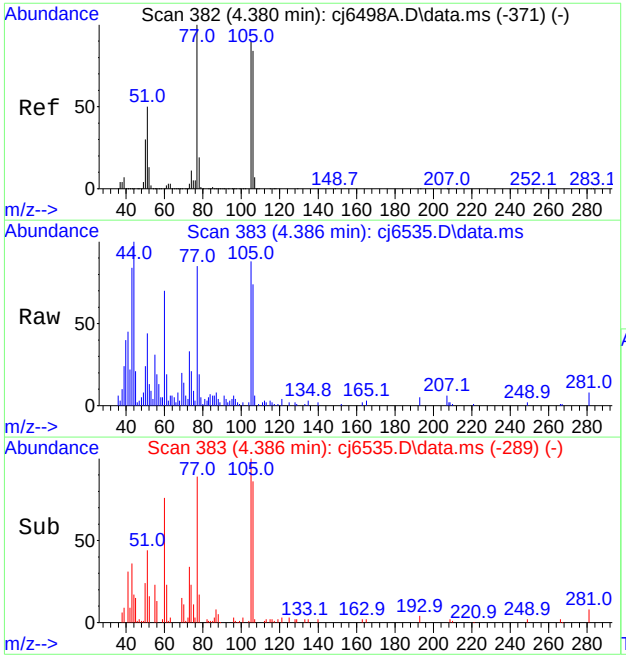


#96
Benzo[k]fluoranthene
Concen: 0.1379 ppm m
RT: 11.371 min Scan# 1689
Delta R.T. -0.011 min
Lab File: cj6535.D
Acq: 09 May 2024 11:19 pm

Tgt Ion:252 Resp: 3276

Ion	Ratio	Lower	Upper
252	100		
253	39.5	0.0	52.6
125	56.6	0.0	42.4#

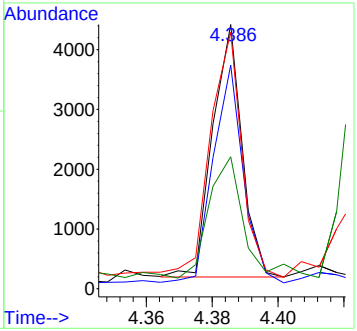




#104
Benzaldehyde
Concen: 0.2648 ppm
RT: 4.386 min Scan# 383
Delta R.T. 0.005 min
Lab File: cj6535.D
Acq: 09 May 2024 11:19 pm

Tgt Ion:105 Resp: 2617

Ion	Ratio	Lower	Upper
105	100		
106	86.2	62.5	122.5
77	96.1	80.6	140.6
51	44.6	25.2	85.2



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6535.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.247	355	357	361	rVB	410909	249749	4.96%	0.367%
2	4.321	361	371	378	rBV4	72433	100563	2.00%	0.148%
3	4.423	387	390	397	rVB	2478873	1393528	27.69%	2.049%
4	4.482	397	401	412	rVB2	234599	251697	5.00%	0.370%
5	4.664	430	435	440	rBV	3453465	2105214	41.83%	3.095%
6	4.712	440	444	446	rBV	821860	486789	9.67%	0.716%
7	4.733	446	448	450	rBV	155349	113145	2.25%	0.166%
8	4.878	469	475	478	rBV3	108312	127221	2.53%	0.187%
9	4.910	478	481	487	rVB	195426	129684	2.58%	0.191%
10	5.011	494	500	503	rBV	2140167	1349045	26.81%	1.983%
11	5.038	503	505	508	rVB	350831	201237	4.00%	0.296%
12	5.295	543	553	560	rBV	5045557	3597296	71.48%	5.289%
13	5.343	560	562	564	rBV	170760	113934	2.26%	0.168%
14	5.364	564	566	571	rVB	271001	167561	3.33%	0.246%
15	5.466	582	585	591	rVB	3656983	2614693	51.96%	3.844%
16	5.680	620	625	628	rBV2	90231	96025	1.91%	0.141%
17	5.798	637	647	652	rBV3	95100	98110	1.95%	0.144%
18	5.894	660	665	668	rBV3	74309	107990	2.15%	0.159%
19	6.167	711	716	720	rBV	8428000	5032374	100.00%	7.399%
20	6.659	804	808	814	rVB	4307473	2973985	59.10%	4.373%
21	6.814	829	837	841	rBV3	173162	194415	3.86%	0.286%
22	6.884	845	850	853	rVB	234981	176811	3.51%	0.260%
23	7.183	901	906	909	rBV	206183	169444	3.37%	0.249%
24	7.274	918	923	926	rVB	1513198	1165499	23.16%	1.714%
25	7.306	926	929	932	rVB	128731	90065	1.79%	0.132%
26	7.338	932	935	939	rBV	215109	149693	2.97%	0.220%
27	7.445	951	955	961	rBV4	100815	143679	2.86%	0.211%
28	7.547	966	974	977	rBV	565310	470126	9.34%	0.691%
29	7.573	977	979	985	rVB2	138653	150248	2.99%	0.221%
30	7.632	985	990	992	rBV	174822	156638	3.11%	0.230%
31	7.836	1023	1028	1031	rBV	168371	163263	3.24%	0.240%
32	7.873	1031	1035	1041	rVB	3652507	3064335	60.89%	4.505%
33	8.033	1058	1065	1068	rBV5	88687	96850	1.92%	0.142%
34	8.071	1068	1072	1081	rVB	494532	447643	8.90%	0.658%
35	8.370	1124	1128	1145	rVB	1153229	1049048	20.85%	1.542%
36	8.536	1155	1159	1162	rBV	121099	127861	2.54%	0.188%
37	8.980	1232	1242	1247	rBV3	178506	248650	4.94%	0.366%
38	9.044	1247	1254	1265	rBV2	1122199	1650533	32.80%	2.427%
39	9.125	1265	1269	1273	rBV	524201	531693	10.57%	0.782%
40	9.269	1292	1296	1300	rVB2	84321	114124	2.27%	0.168%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.355	1301	1312	1316	rBV	3157613	2671251	53.08%	3.928%
42	9.446	1325	1329	1334	rBV	84379	89028	1.77%	0.131%
43	9.590	1352	1356	1359	rBV3	205993	207802	4.13%	0.306%
44	9.622	1359	1362	1366	rVB2	115513	118166	2.35%	0.174%
45	9.697	1370	1376	1378	rBV6	57715	96692	1.92%	0.142%
46	9.724	1378	1381	1385	rVB2	142227	126381	2.51%	0.186%
47	9.831	1396	1401	1404	rBV	729834	679778	13.51%	0.999%
48	9.863	1404	1407	1415	rVB2	387584	417459	8.30%	0.614%
49	9.938	1415	1421	1428	rBV4	122207	225207	4.48%	0.331%
50	10.071	1439	1446	1448	rBV	360637	381915	7.59%	0.562%
51	10.093	1448	1450	1459	rVB	468501	448254	8.91%	0.659%
52	10.189	1461	1468	1475	rBV2	477176	585985	11.64%	0.862%
53	10.269	1475	1483	1490	rBV	778528	913742	18.16%	1.343%
54	10.366	1496	1501	1505	rBV	3198187	2856626	56.76%	4.200%
55	10.403	1505	1508	1513	rVB2	150869	160169	3.18%	0.235%
56	10.494	1519	1525	1533	rBV2	1023734	1274559	25.33%	1.874%
57	10.547	1533	1535	1539	rVV2	80871	91766	1.82%	0.135%
58	10.596	1539	1544	1551	rVV2	155331	242426	4.82%	0.356%
59	10.719	1563	1567	1577	rVB5	123391	186918	3.71%	0.275%
60	10.809	1577	1584	1592	rBV2	343574	584308	11.61%	0.859%
61	10.906	1592	1602	1608	rVV	1252673	1221867	24.28%	1.796%
62	11.050	1619	1629	1635	rVV2	468425	754959	15.00%	1.110%
63	11.114	1635	1641	1650	rVV	1256512	1573360	31.26%	2.313%
64	11.205	1653	1658	1665	rVV3	236205	497343	9.88%	0.731%
65	11.259	1665	1668	1672	rVV3	122182	180646	3.59%	0.266%
66	11.328	1672	1681	1691	rVV4	409327	806697	16.03%	1.186%
67	11.414	1691	1697	1704	rVV2	467741	883015	17.55%	1.298%
68	11.467	1705	1707	1711	rVV5	98409	144257	2.87%	0.212%
69	11.521	1711	1717	1723	rVV2	901389	1191818	23.68%	1.752%
70	11.649	1737	1741	1747	rVB5	84743	116073	2.31%	0.171%
71	11.713	1747	1753	1757	rBV	2294466	2674010	53.14%	3.932%
72	11.745	1757	1759	1770	rVV	417447	580386	11.53%	0.853%
73	11.868	1773	1782	1786	rVV7	110689	361390	7.18%	0.531%
74	11.917	1786	1791	1796	rVV6	113704	306300	6.09%	0.450%
75	12.008	1800	1808	1819	rVV6	518201	1513324	30.07%	2.225%
76	12.120	1820	1829	1837	rVV7	232031	625406	12.43%	0.920%
77	12.211	1837	1846	1849	rVV	322878	667639	13.27%	0.982%
78	12.243	1849	1852	1860	rVV	452782	740271	14.71%	1.088%
79	12.307	1860	1864	1867	rVV	161761	252529	5.02%	0.371%
80	12.355	1868	1873	1878	rVV9	99685	246431	4.90%	0.362%
81	12.398	1878	1881	1887	rVV6	82941	135498	2.69%	0.199%
82	12.478	1887	1896	1900	rVV6	150824	368903	7.33%	0.542%
83	12.521	1900	1904	1915	rVV4	142840	330224	6.56%	0.486%
84	12.665	1926	1931	1939	rVV6	78385	171301	3.40%	0.252%
85	12.751	1941	1947	1957	rVV6	53538	155170	3.08%	0.228%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.858	1959	1967	1976	rVB5	176069	387074	7.69%	0.569%
87	12.960	1978	1986	1994	rBV5	127139	318049	6.32%	0.468%
88	13.040	1994	2001	2003	rVV7	160133	292125	5.80%	0.430%
89	13.077	2003	2008	2019	rVV7	532379	1151291	22.88%	1.693%
90	13.168	2019	2025	2031	rVV2	217640	456608	9.07%	0.671%
91	13.238	2031	2038	2049	rVV8	148863	480760	9.55%	0.707%
92	13.339	2049	2057	2062	rVV8	76836	167295	3.32%	0.246%
93	13.414	2062	2071	2091	rVV2	1095576	2522890	50.13%	3.709%
94	13.537	2091	2094	2103	rVB2	53611	116334	2.31%	0.171%
95	13.714	2121	2127	2138	rVB2	88210	218964	4.35%	0.322%
96	13.965	2168	2174	2177	rBV8	65705	131172	2.61%	0.193%
97	14.019	2178	2184	2190	rVV8	126575	330008	6.56%	0.485%
98	14.072	2192	2194	2211	rVB8	97135	293871	5.84%	0.432%
99	14.211	2211	2220	2233	rBV7	178837	480817	9.55%	0.707%
100	14.431	2255	2261	2267	rVB6	66265	138851	2.76%	0.204%

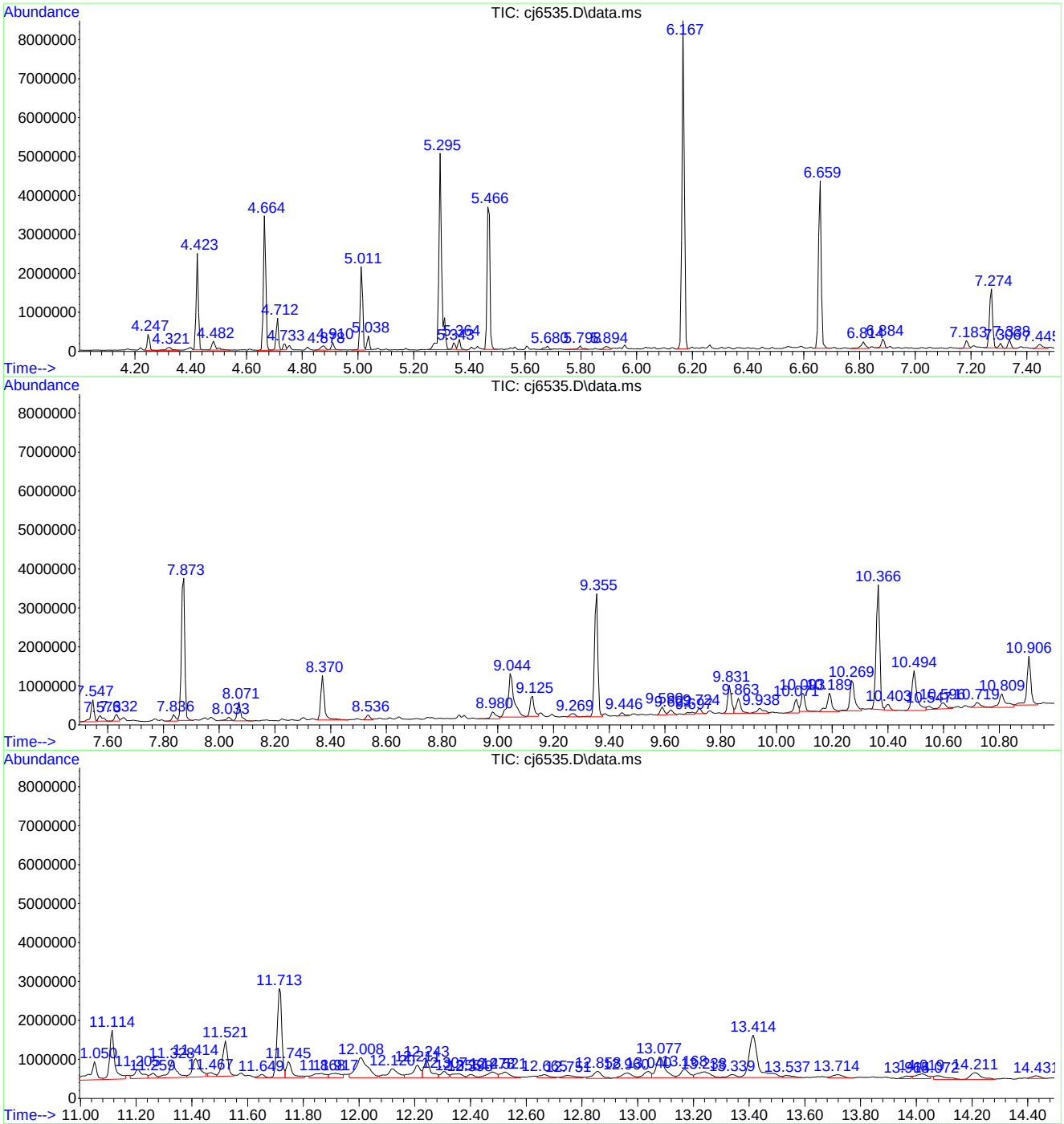
Sum of corrected areas: 68013816

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

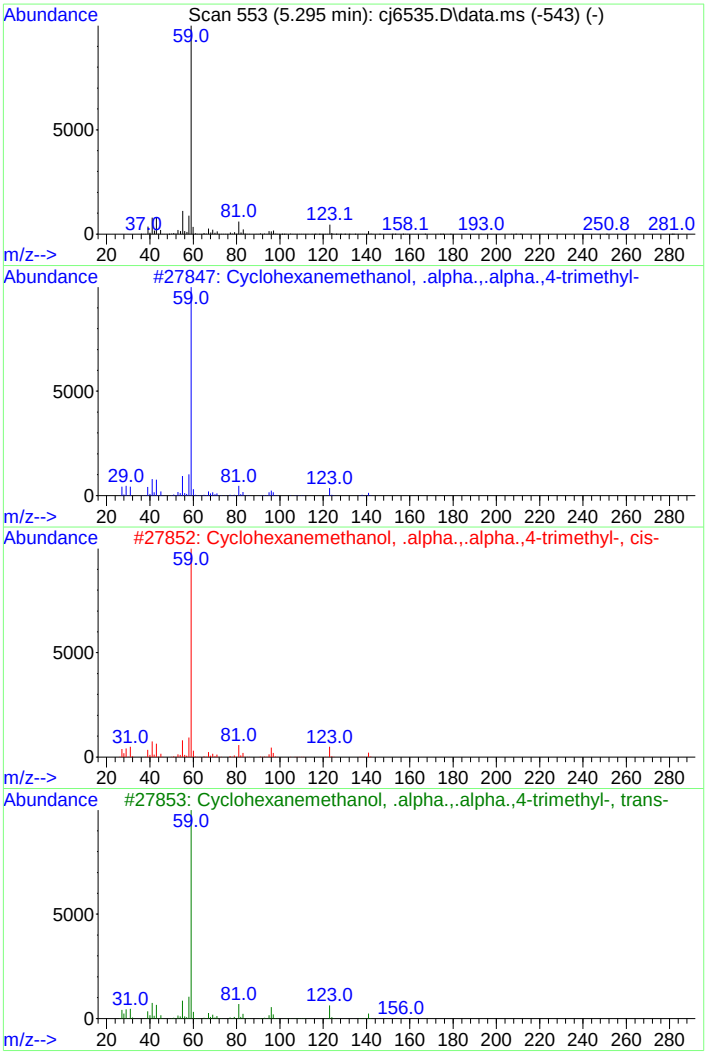
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

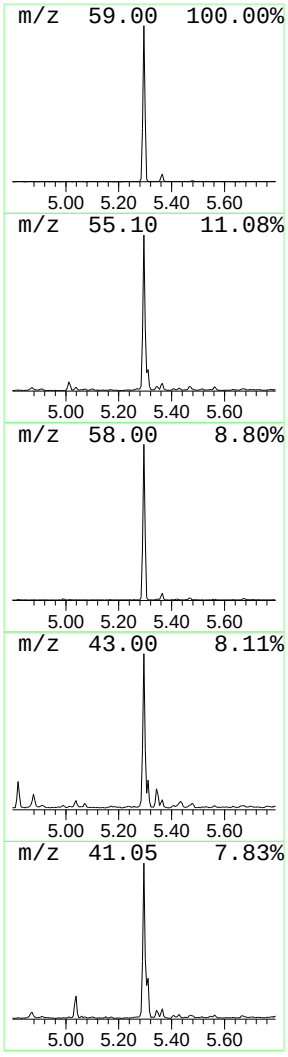
****

Peak Number 1 Unknown alcohol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.295	55.03 ppm	3597300	Naphthalene-d8	5.471

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanemethanol, .alpha.,.al...	156	C10H20O	000498-81-7	83
2	Cyclohexanemethanol, .alpha.,.al...	156	C10H20O	007322-63-6	78
3	Cyclohexanemethanol, .alpha.,.al...	156	C10H20O	005114-00-1	74
4	Cyclohexanemethanol, .alpha.,.al...	156	C10H20O	000498-81-7	47
5	2-Hydroxy-2,5-dimethyl-hept-6-en...	156	C9H16O2	1000192-55-8	45





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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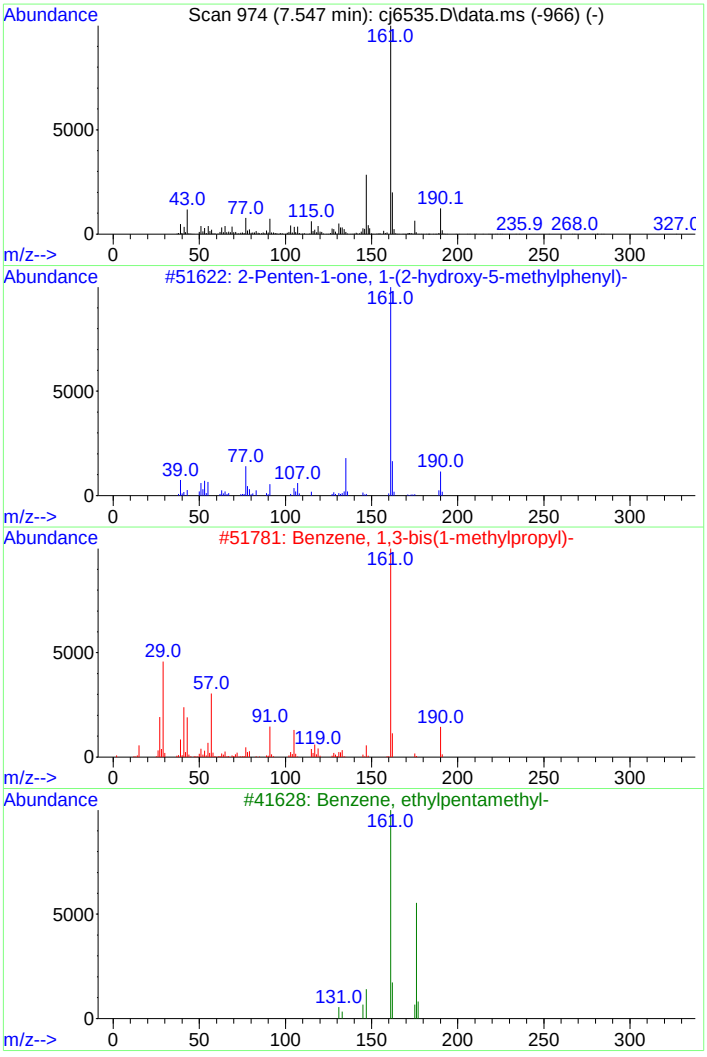
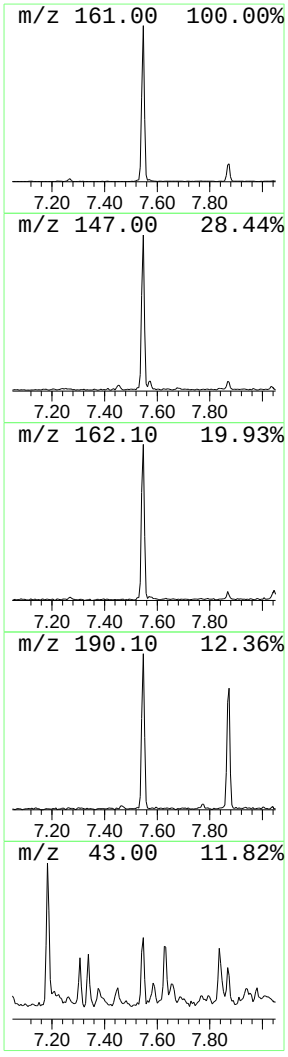
Peak Number 2 Unknown Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.547	6.14 ppm	470126	Phenanthrene-d10	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Penten-1-one, 1-(2-hydroxy-5-m...	190	C12H14O2	051956-78-6	58
2	Benzene, 1,3-bis(1-methylpropyl)-	190	C14H22	001079-96-5	42
3	Benzene, ethylpentamethyl-	176	C13H20	002388-04-7	42
4	1-Propanone, 1-[4-(1,1-dimethyle...	190	C13H18O	071209-71-7	40
5	Benzoic acid, 4-butyl-, 4-cyanop...	279	C18H17NO2	038690-77-6	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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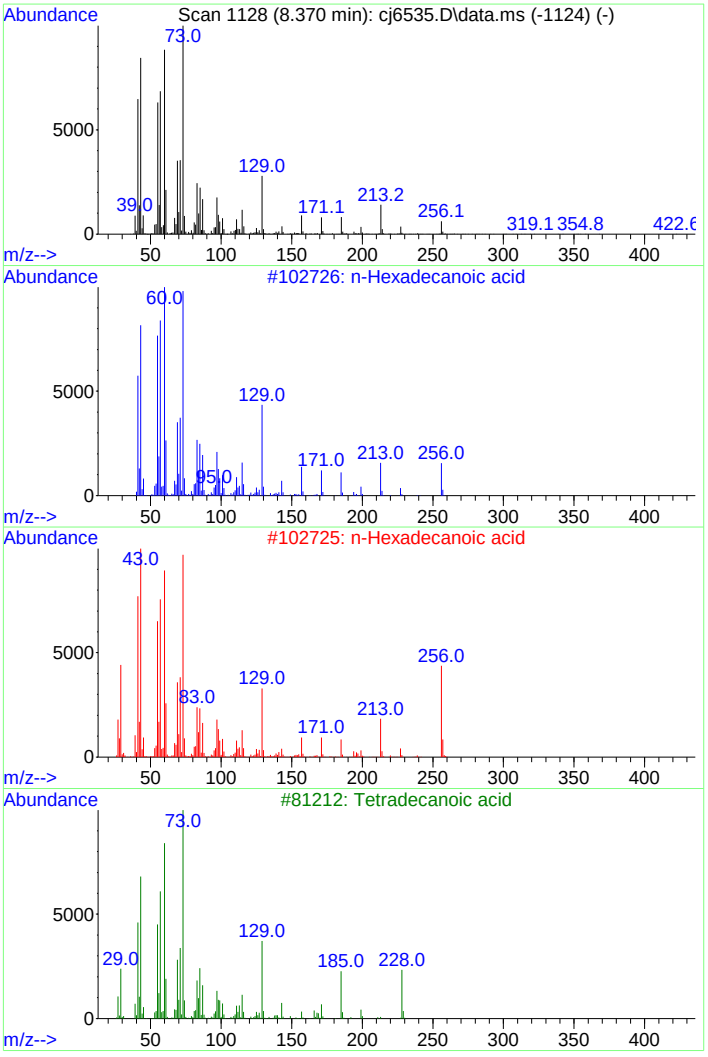
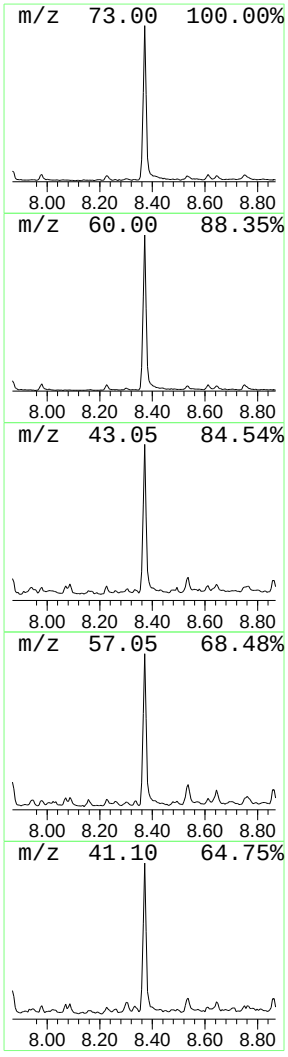
Peak Number 3 n-Hexadecanoic acid Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.370	13.69 ppm	1049050	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	95
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	95
4	Tridecanoic acid	214	C13H26O2	000638-53-9	91
5	Tridecanoic acid	214	C13H26O2	000638-53-9	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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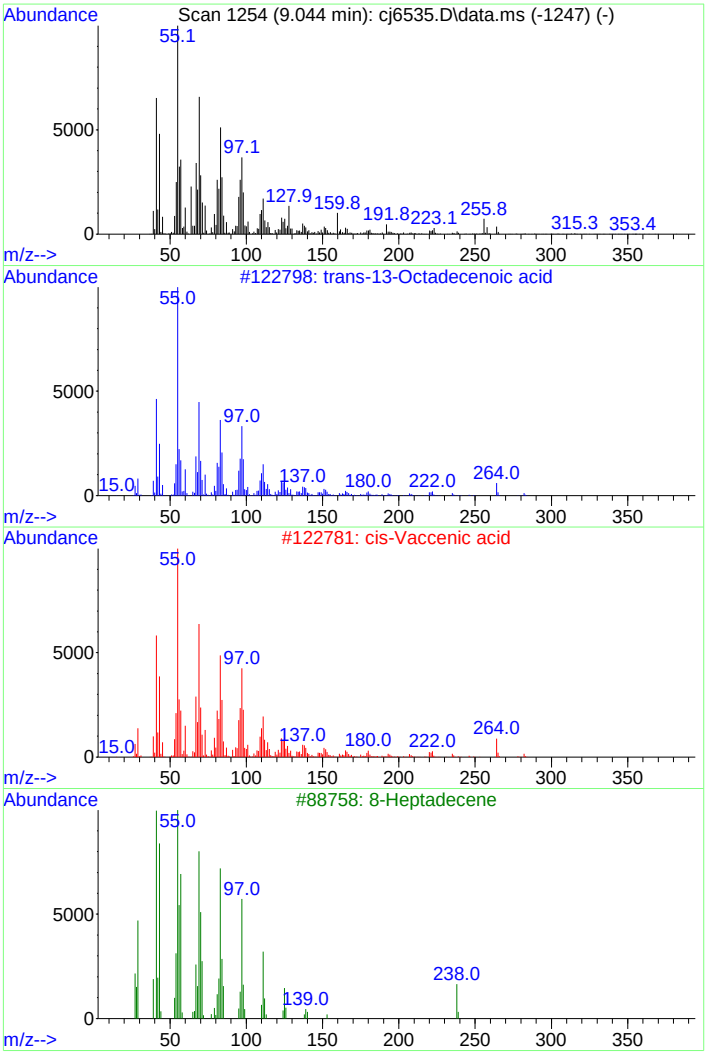
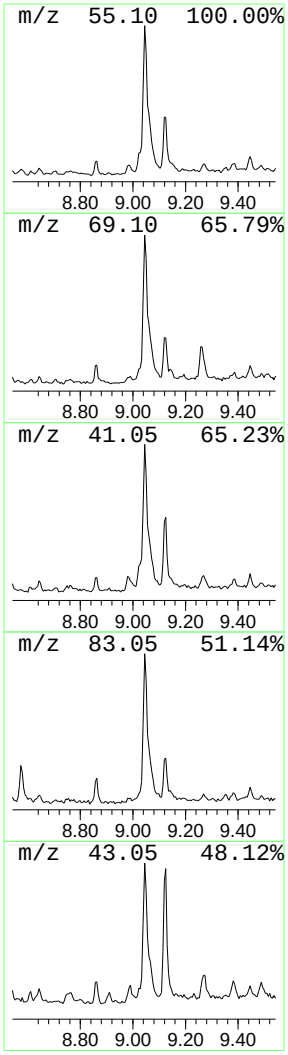
Peak Number 4 Unknown acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.044	21.55 ppm	1650530	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-13-Octadecenoic acid	282	C18H34O2	000693-71-0	89
2	cis-Vaccenic acid	282	C18H34O2	000506-17-2	86
3	8-Heptadecene	238	C17H34	002579-04-6	84
4	Octadec-9-enoic acid	282	C18H34O2	1000190-13-7	70
5	Cyclotetradecane	196	C14H28	000295-17-0	64





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

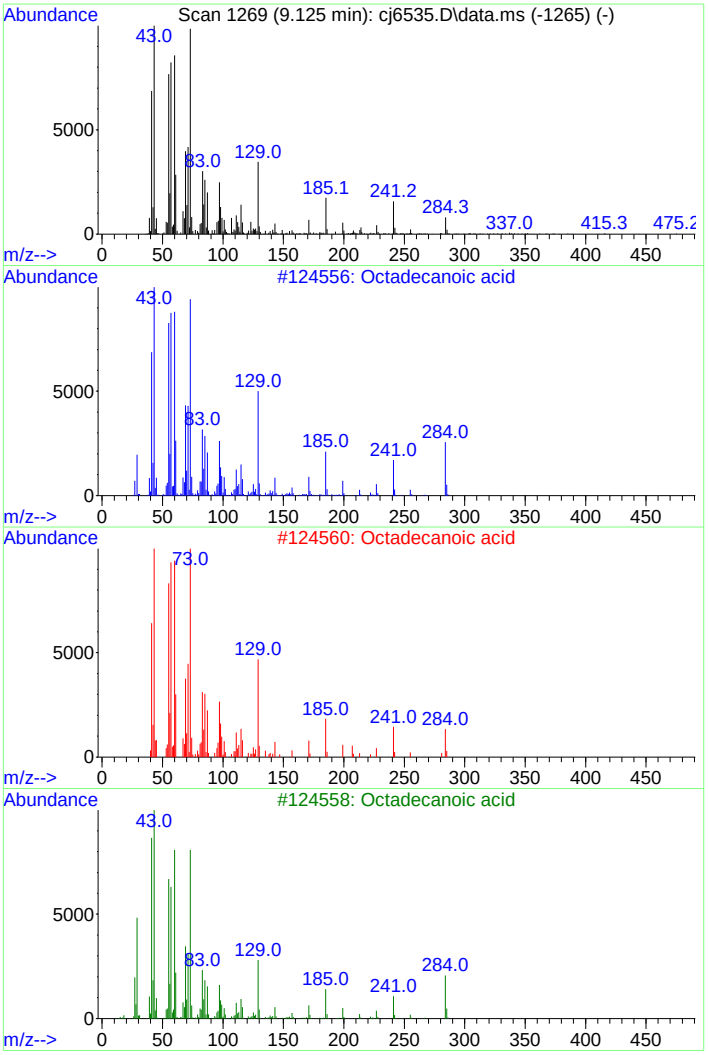
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

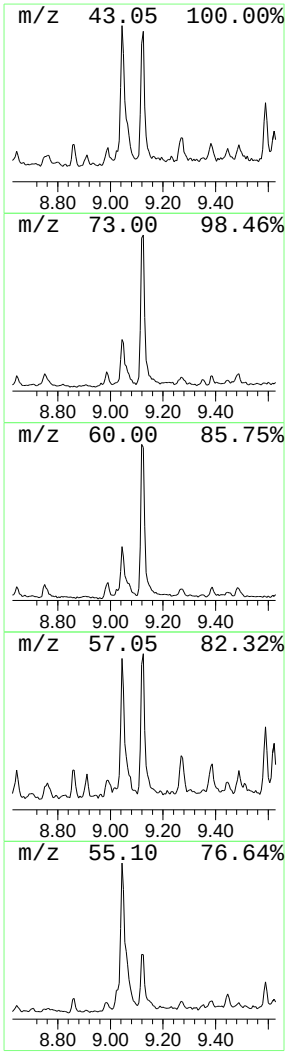
****

Peak Number 5 Octadecanoic acid Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.125	7.45 ppm	531693	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Octadecanoic acid	284	C18H36O2	000057-11-4	96
3	Octadecanoic acid	284	C18H36O2	000057-11-4	96
4	Octadecanoic acid	284	C18H36O2	000057-11-4	94
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

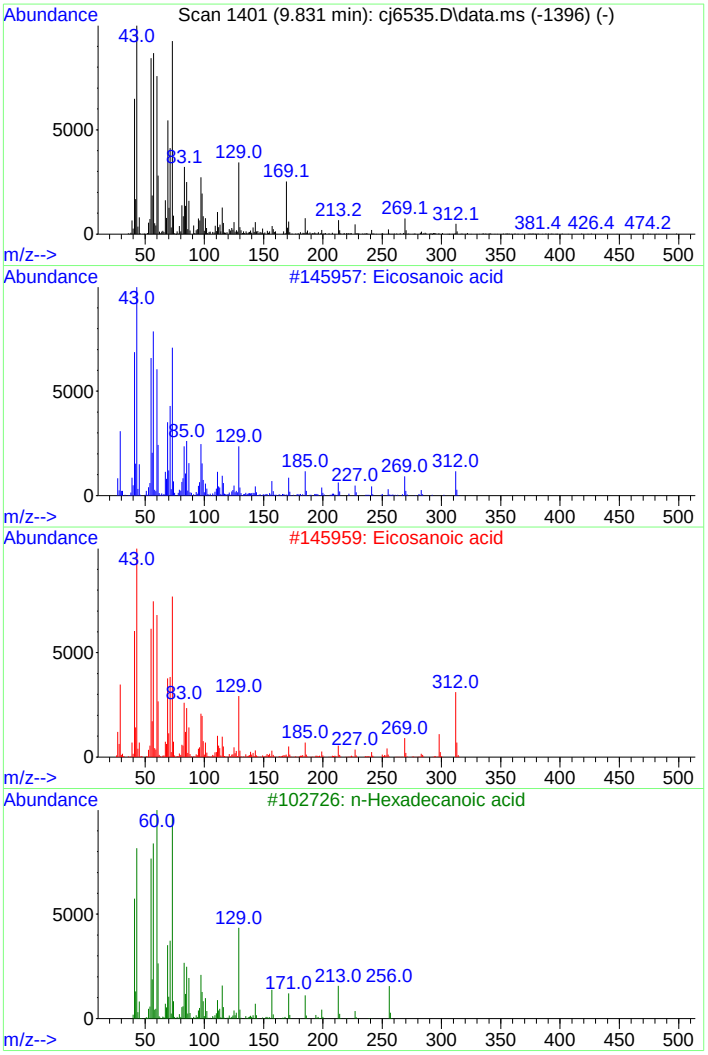
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

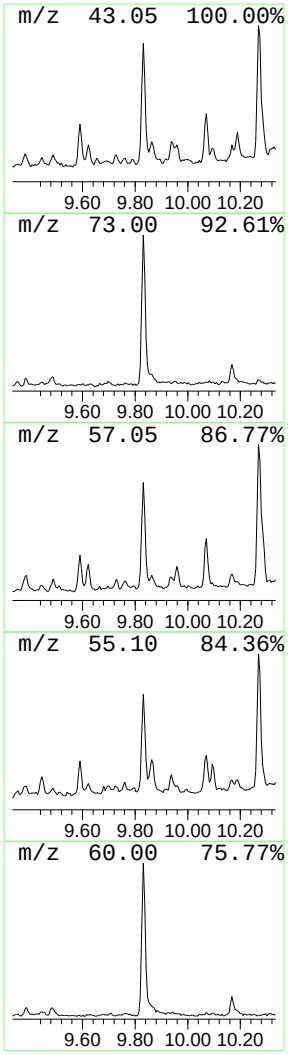
****

Peak Number 6 Eicosanoic acid Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.831	9.52 ppm	679778	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosanoic acid	312	C20H40O2	000506-30-9	92
2	Eicosanoic acid	312	C20H40O2	000506-30-9	91
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	90
4	Eicosanoic acid	312	C20H40O2	000506-30-9	87
5	Octadecanoic acid	284	C18H36O2	000057-11-4	87





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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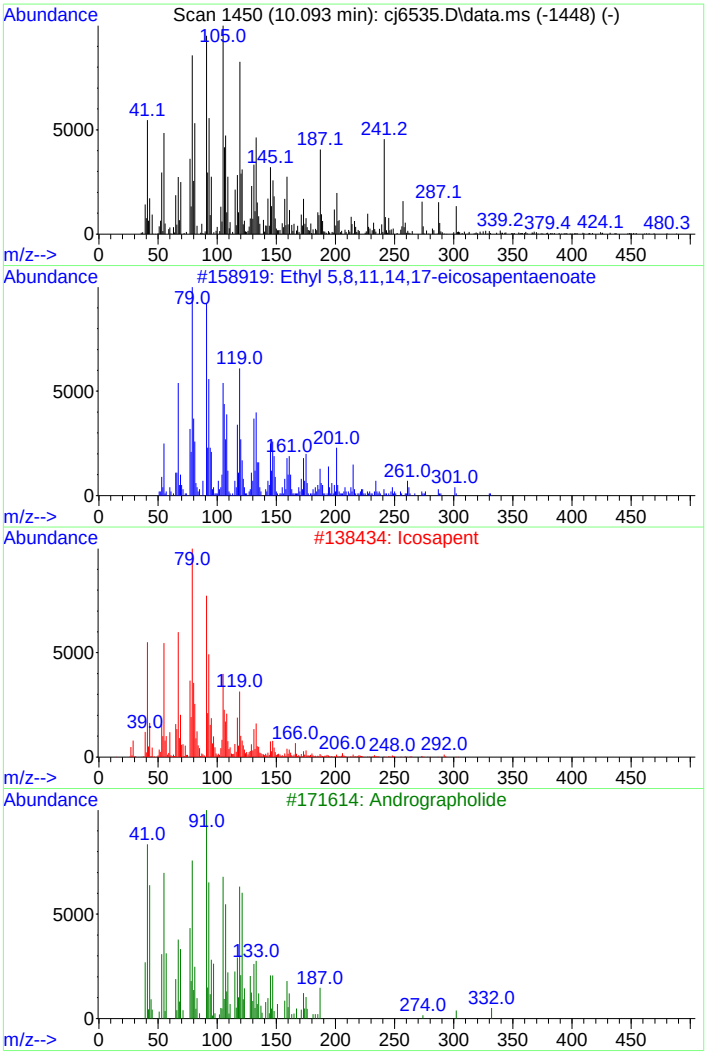
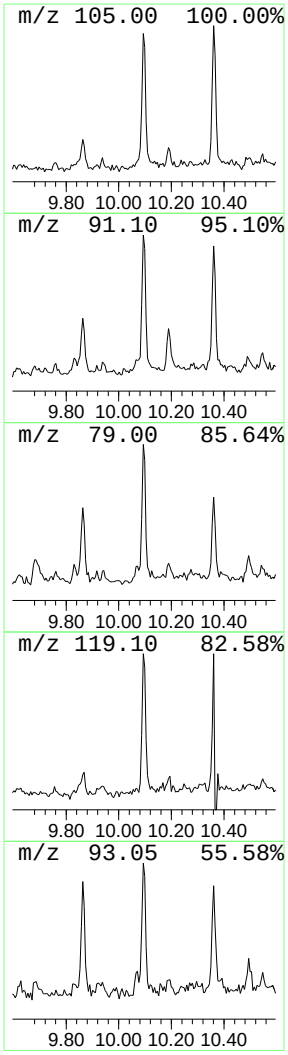
Peak Number 7 Unknown Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.093	6.28 ppm	448254	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethyl 5,8,11,14,17-eicosapentaen...	330	C22H34O2	1000336-70-3	70
2	Icosapent	302	C20H30O2	010417-94-4	50
3	Andrographolide	350	C20H30O5	005508-58-7	38
4	10,12-Tricosadiynoic acid, methy...	360	C24H40O2	1000333-59-4	35
5	1,8-Nonadiene, 2-methyl-5,7-dime...	162	C12H18	1000152-68-8	27





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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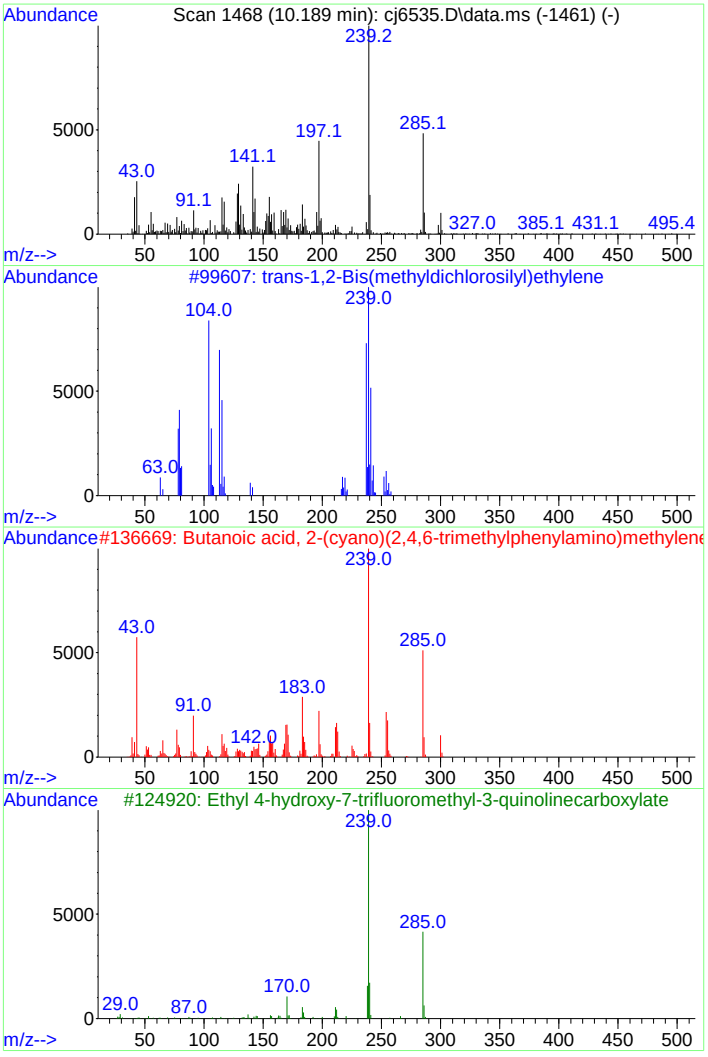
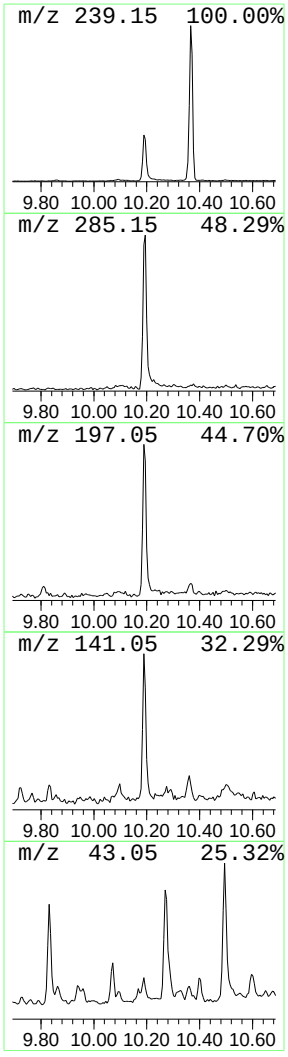
Peak Number 8 Unknown Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.189	8.21 ppm	585985	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-1,2-Bis(methyldichlorosily...	252	C4H8Cl4Si2	065899-10-7	70
2	Butanoic acid, 2-(cyano)(2,4,6-t...	300	C17H20N2O3	1000267-71-7	53
3	Ethyl 4-hydroxy-7-trifluoromethy...	285	C13H10F3NO3	000391-02-6	49
4	3-Quinolinecarboxylic acid, 4-hy...	285	C13H10F3NO3	023851-84-5	49
5	1-Phenanthrenecarboxylic acid, 1...	314	C21H30O2	001235-74-1	32





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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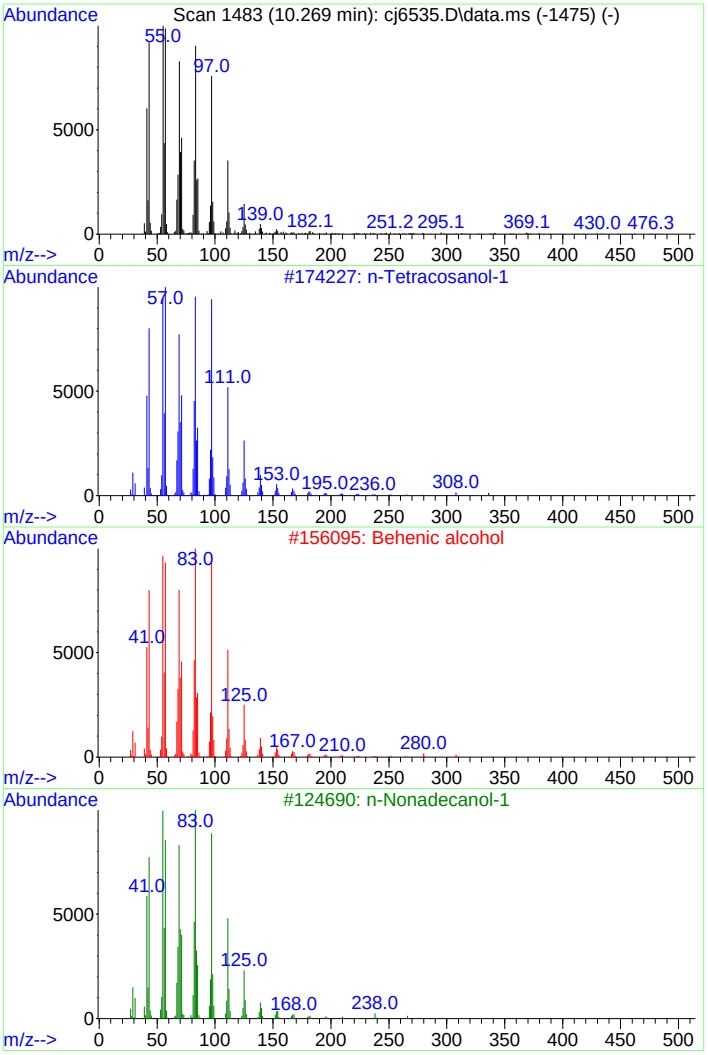
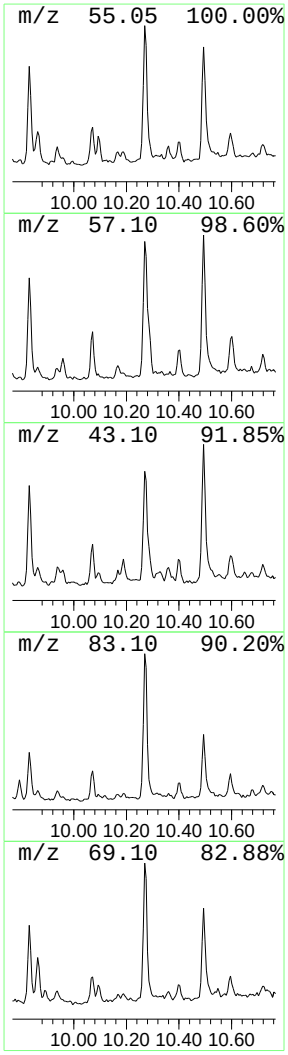
Peak Number 9 Unknown alcohol Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.269	12.79 ppm	913742	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
2	Behenic alcohol	326	C22H46O	000661-19-8	94
3	n-Nonadecanol-1	284	C19H40O	001454-84-8	94
4	9-Eicosene, (E)-	280	C20H40	074685-29-3	91
5	1-Nonadecene	266	C19H38	018435-45-5	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

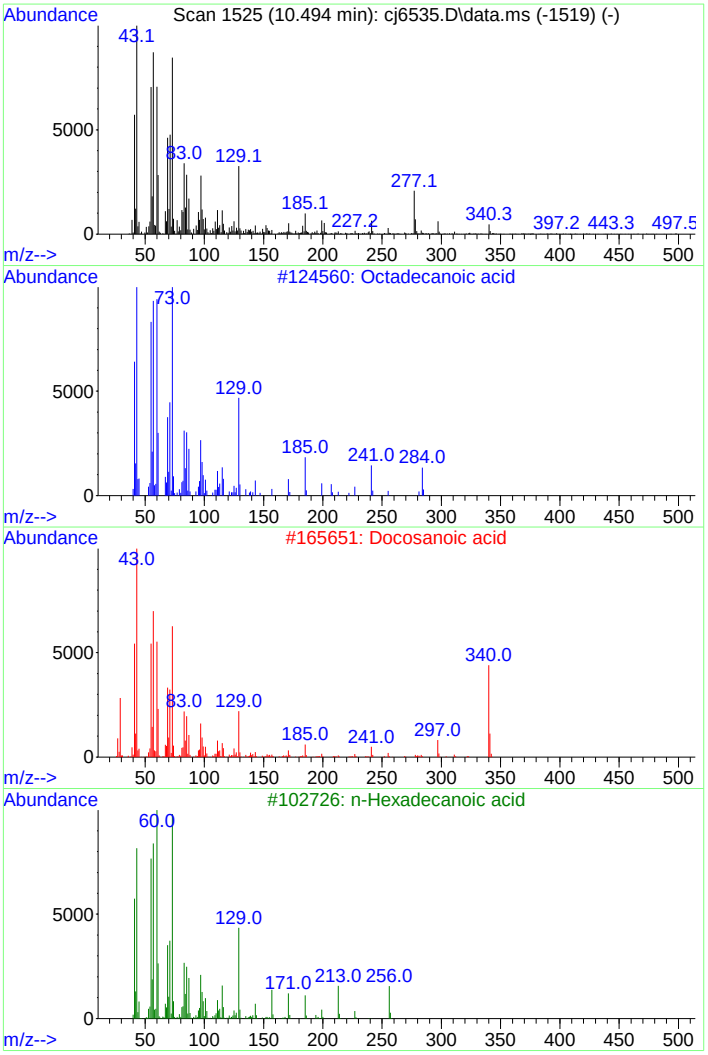
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

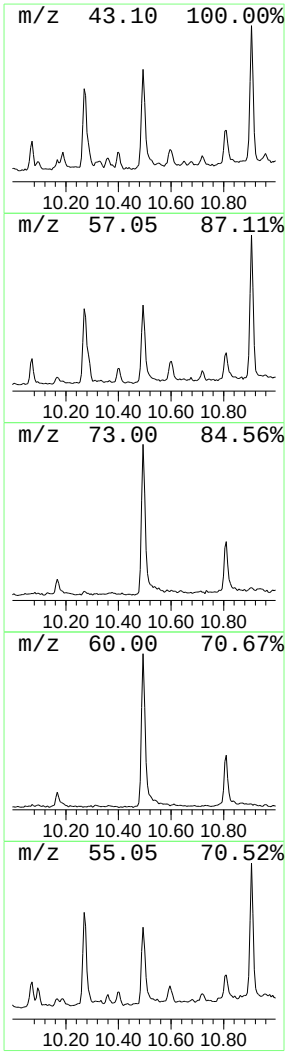
****

Peak Number 10 Octadecanoic acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.494	17.85 ppm	1274560	Chrysene-d12a	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Docosanoic acid	340	C22H44O2	000112-85-6	95
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	49
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	49
5	Tridecanoic acid	214	C13H26O2	000638-53-9	47





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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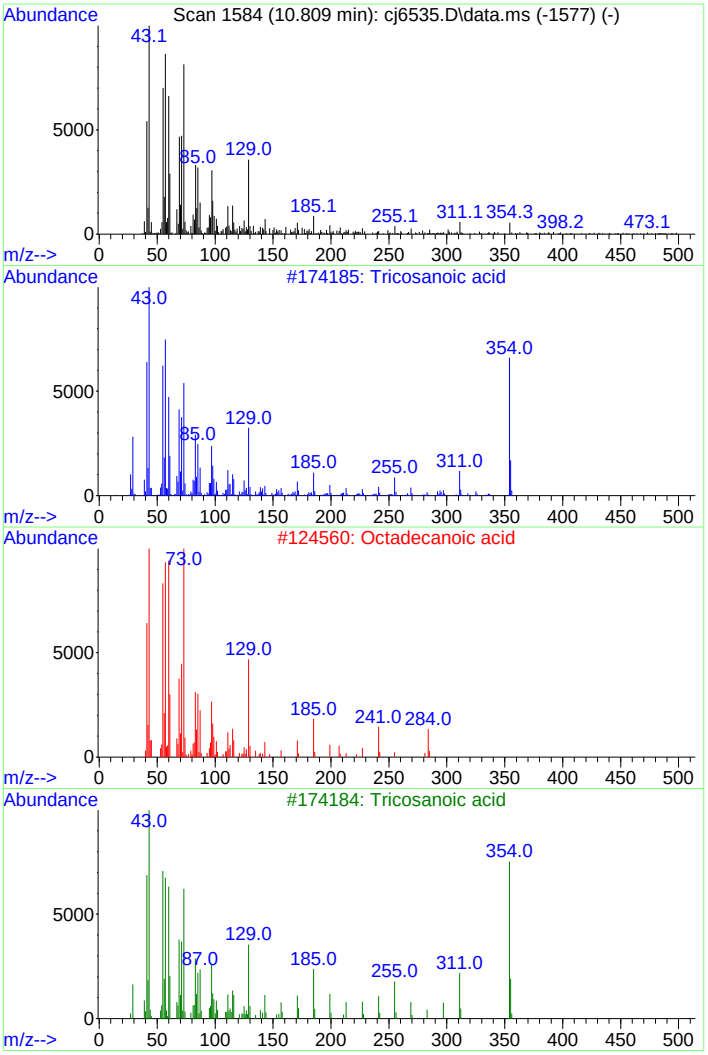
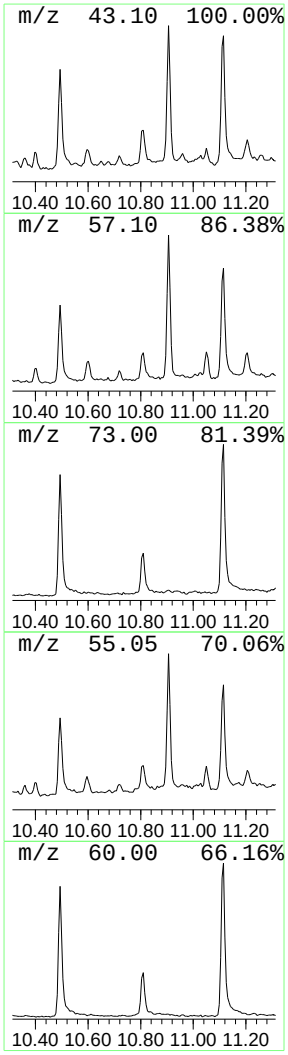
Peak Number 11 Unknown acid Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.810	8.18 ppm	584308	Chrysene-d12a	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricosanoic acid	354	C23H46O2	002433-96-7	94
2	Octadecanoic acid	284	C18H36O2	000057-11-4	74
3	Tricosanoic acid	354	C23H46O2	002433-96-7	70
4	Hexacosanoic acid	396	C26H52O2	000506-46-7	64
5	Oxalic acid, pentadecyl propyl e...	342	C20H38O4	1000309-26-8	41





Library Search Compound Report

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Sample : jd87833-12
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ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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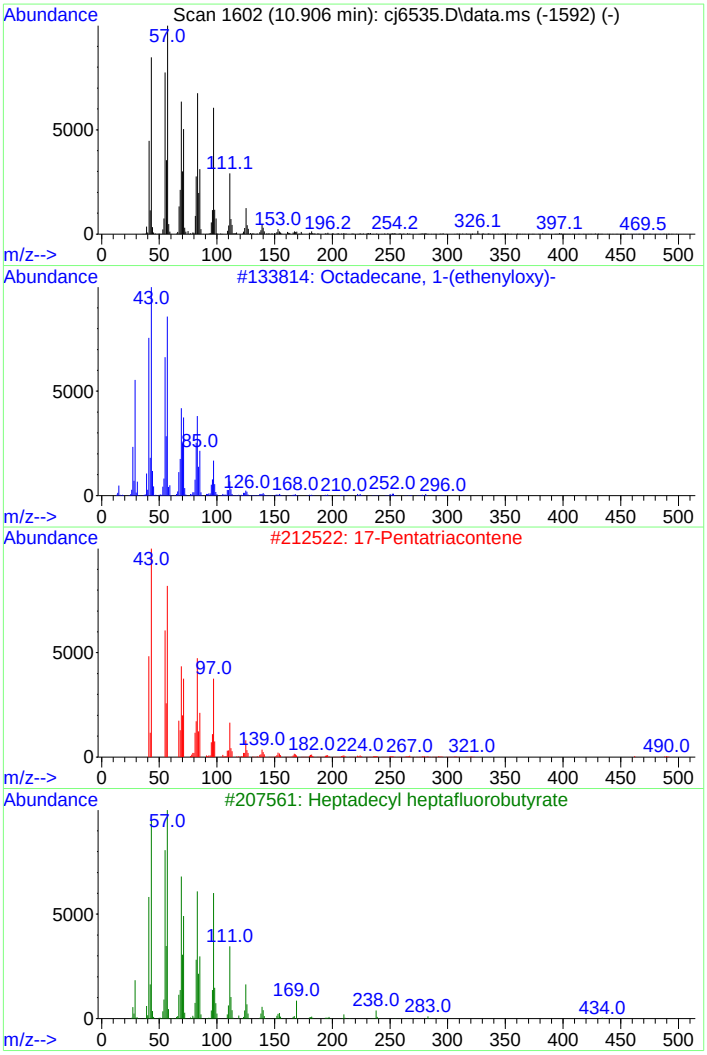
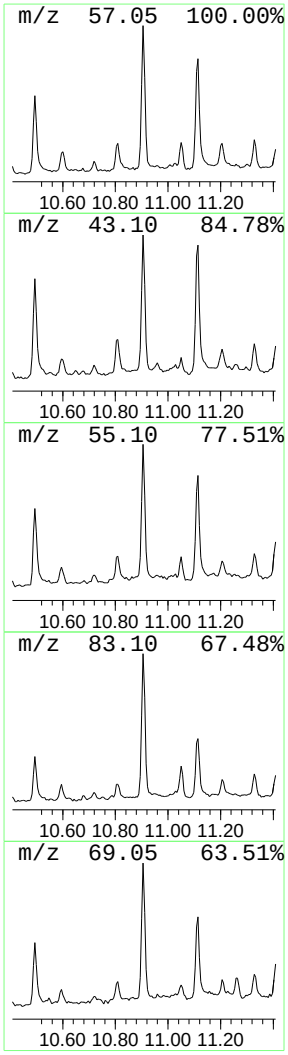
Peak Number 12 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.906	17.11 ppm	1221870	Chrysene-d12a	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane, 1-(ethenyloxy)-	296	C20H40O	000930-02-9	93
2	17-Pentatriacontene	491	C35H70	006971-40-0	91
3	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	1000351-82-9	91
4	Eicosyl trifluoroacetate	394	C22H41F3O2	1000351-75-2	91
5	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	91





Library Search Compound Report

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Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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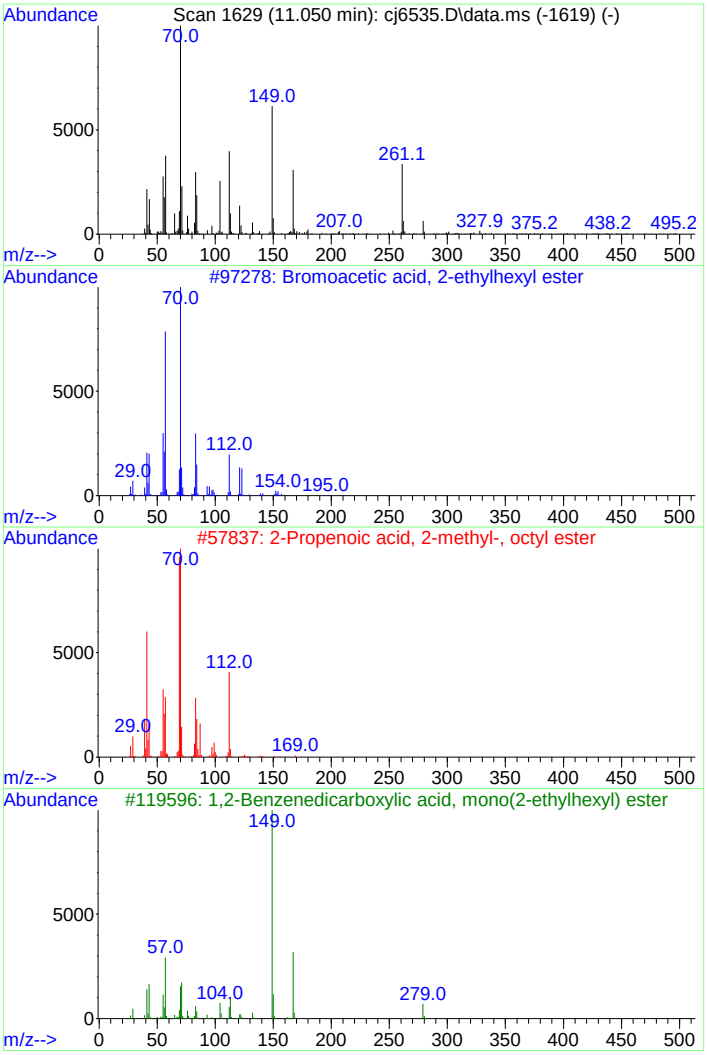
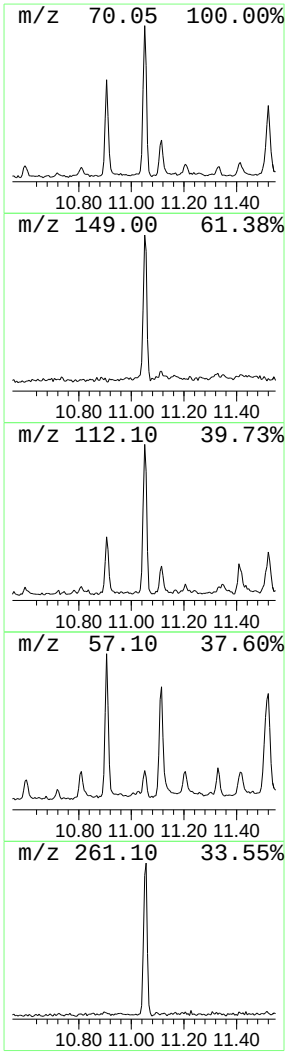
Peak Number 13 Unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.050	11.29 ppm	754959	Perylene-d12	11.713

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bromoacetic acid, 2-ethylhexyl e...	250	C10H19BrO2	068144-73-0	35
2	2-Propenoic acid, 2-methyl-, oct...	198	C12H22O2	002157-01-9	25
3	1,2-Benzenedicarboxylic acid, mo...	278	C16H22O4	004376-20-9	22
4	1,2-Benzenedicarboxylic acid, di...	390	C24H38O4	027554-26-3	22
5	Cyclohexaneamine, N-but-2-enylid...	167	C10H17NO	068048-01-1	16





Library Search Compound Report

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Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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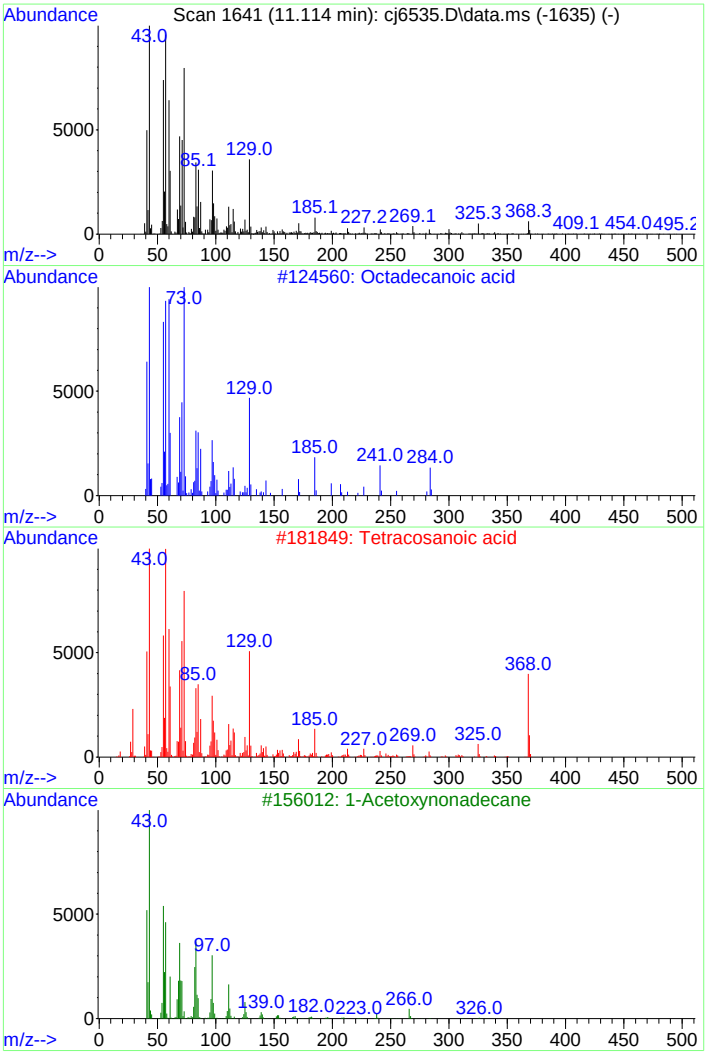
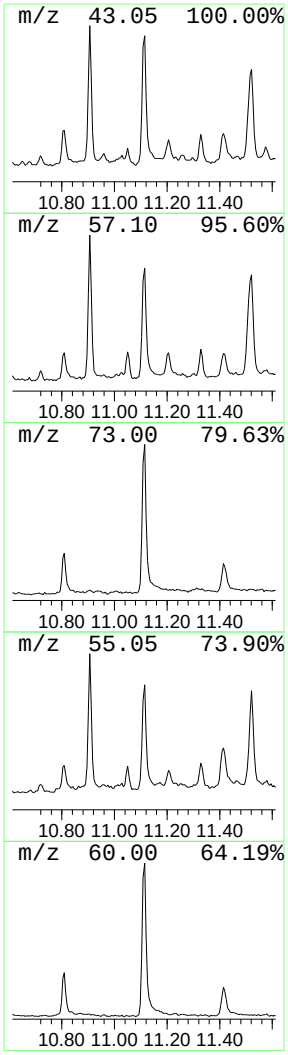
Peak Number 14 Unknown acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.114	23.54 ppm	1573360	Perylene-d12	11.713

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	87
2	Tetracosanoic acid	368	C24H48O2	000557-59-5	76
3	1-Acetoxynonadecane	326	C21H42O2	001577-43-1	41
4	Oxalic acid, isobutyl hexadecyl ...	370	C22H42O4	1000309-38-1	38
5	Oxalic acid, cyclobutyl hexadecy...	368	C22H40O4	1000309-70-6	38





Library Search Compound Report

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Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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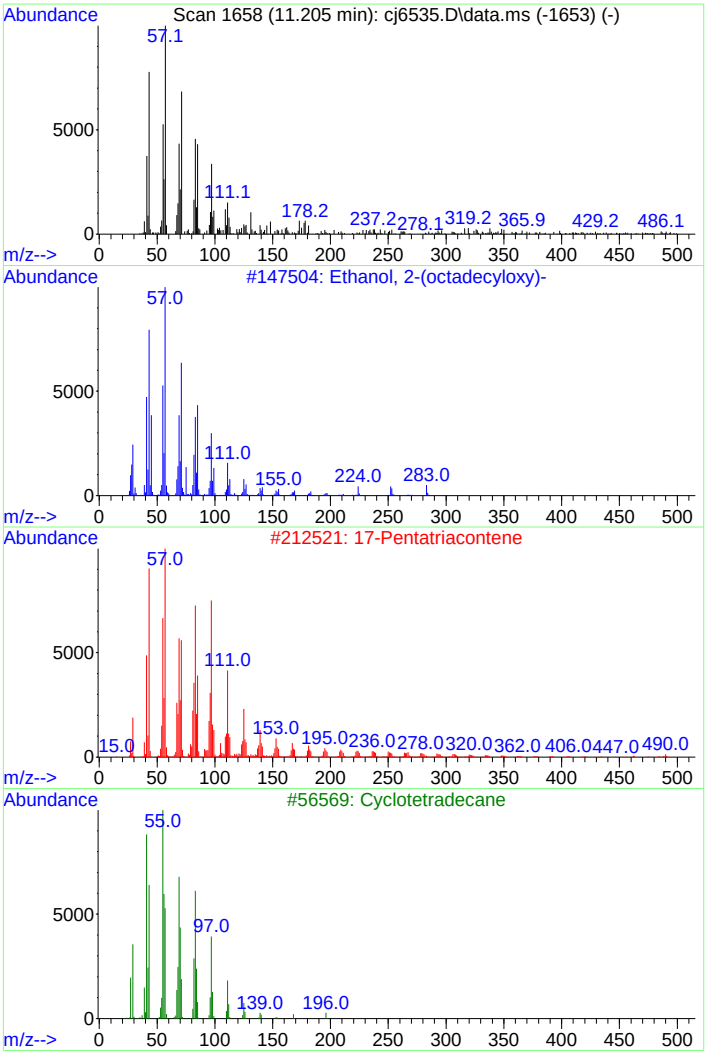
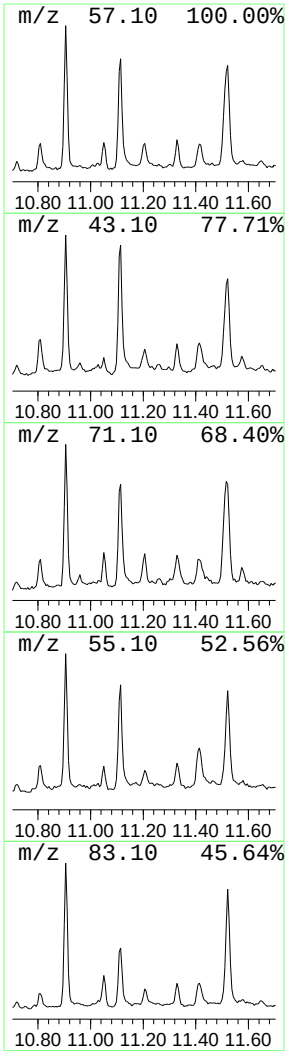
Peak Number 15 Unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.205	7.44 ppm	497343	Perylene-d12	11.713

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(octadecyloxy)-	314	C20H42O2	002136-72-3	93
2	17-Pentatriacontene	491	C35H70	006971-40-0	89
3	Cyclotetradecane	196	C14H28	000295-17-0	86
4	Oxalic acid, isobutyl pentadecyl...	356	C21H40O4	1000309-38-0	83
5	1-Docosene	308	C22H44	001599-67-3	70





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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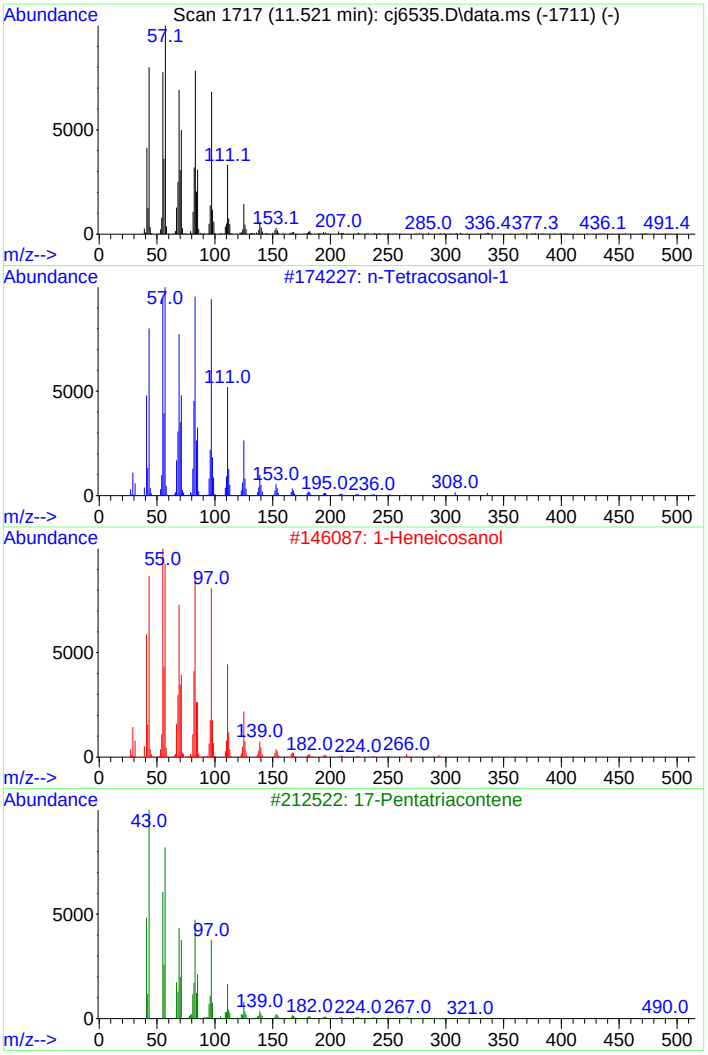
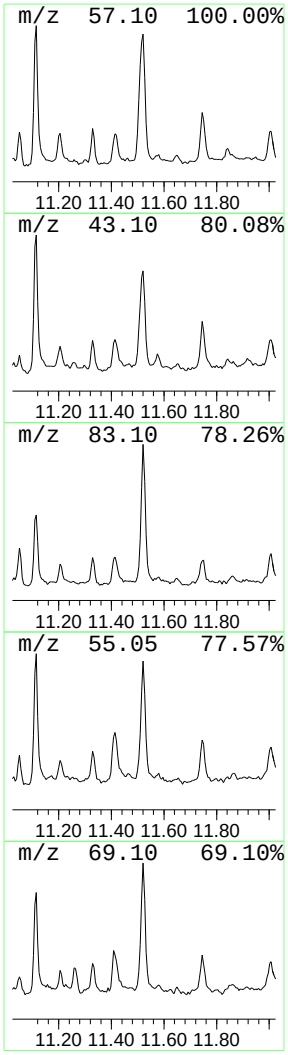
Peak Number 16 Unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.521	17.83 ppm	1191820	Perylene-d12	11.713

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
2	1-Heneicosanol	312	C21H44O	015594-90-8	93
3	17-Pentatriacontene	491	C35H70	006971-40-0	91
4	Cyclooctacosane	392	C28H56	000297-24-5	91
5	Heptafluorobutanoic acid, heptad...	452	C21H35F7O2	1000282-97-3	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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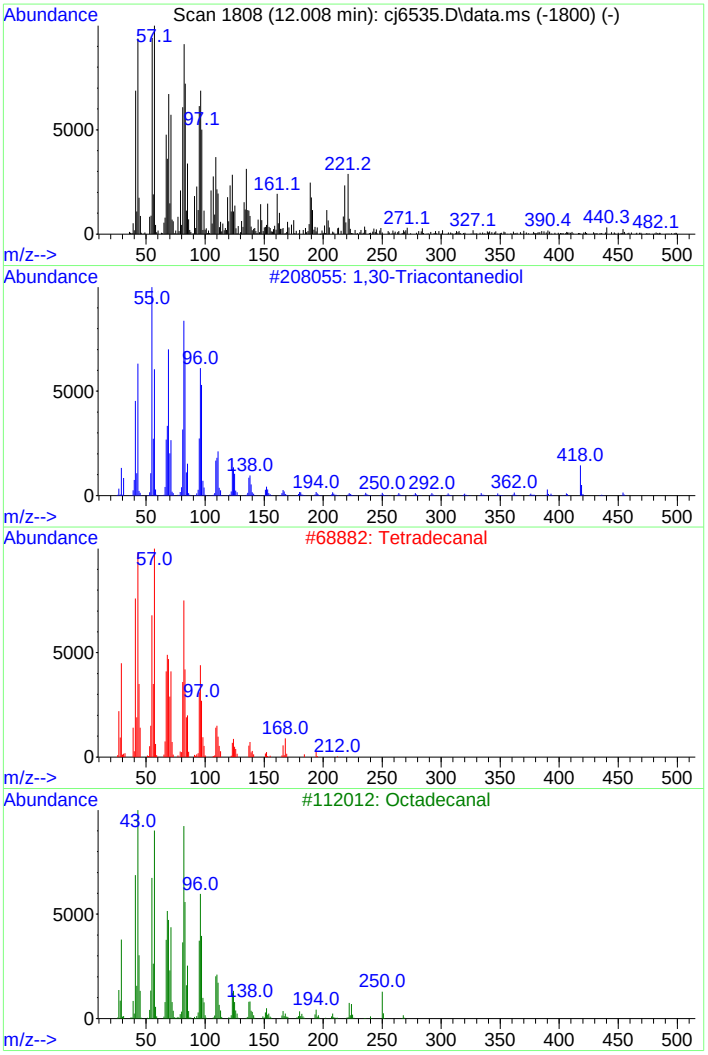
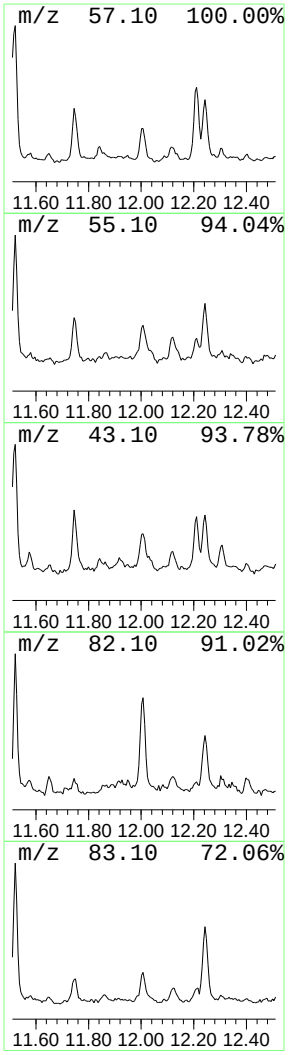
Peak Number 17 Unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.008	22.64 ppm	1513320	Perylene-d12	11.713

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,30-Triacontanediol	454	C30H62O2	036645-68-8	78
2	Tetradecanal	212	C14H28O	000124-25-4	78
3	Octadecanal	268	C18H36O	000638-66-4	78
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	60
5	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	60





Library Search Compound Report

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Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
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ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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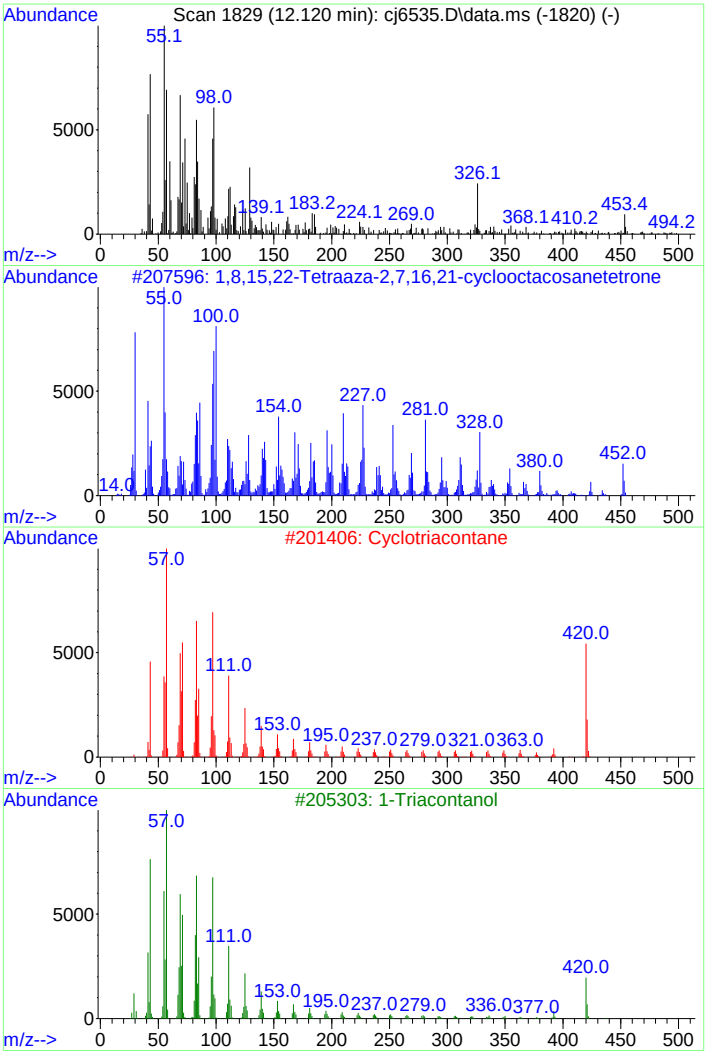
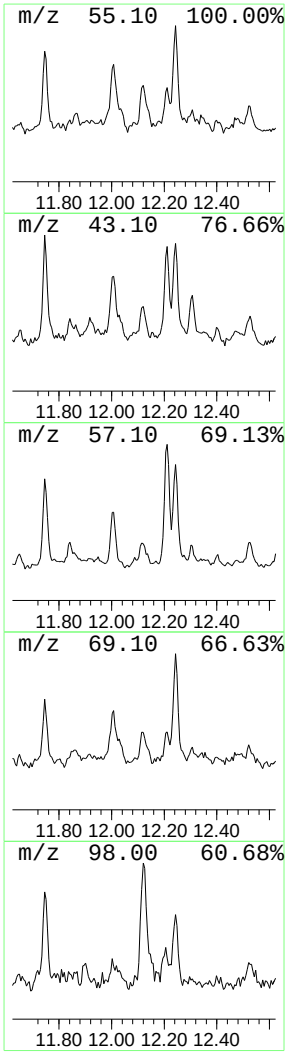
Peak Number 18 Unknown Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.120	9.36 ppm	625406	Perylene-d12	11.713

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,8,15,22-Tetraaza-2,7,16,21-cyc...	452	C24H44N4O4	004238-35-1	92
2	Cyclotriacontane	420	C30H60	000297-35-8	52
3	1-Triacontanol	438	C30H62O	000593-50-0	46
4	Hexadecanoic acid, 2-hydroxy-, m...	286	C17H34O3	016742-51-1	30
5	Tetratriacontane, 17-hexadecyl-	703	C50H102	055256-07-0	25





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Acq On : 09 May 2024 11:19 pm
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Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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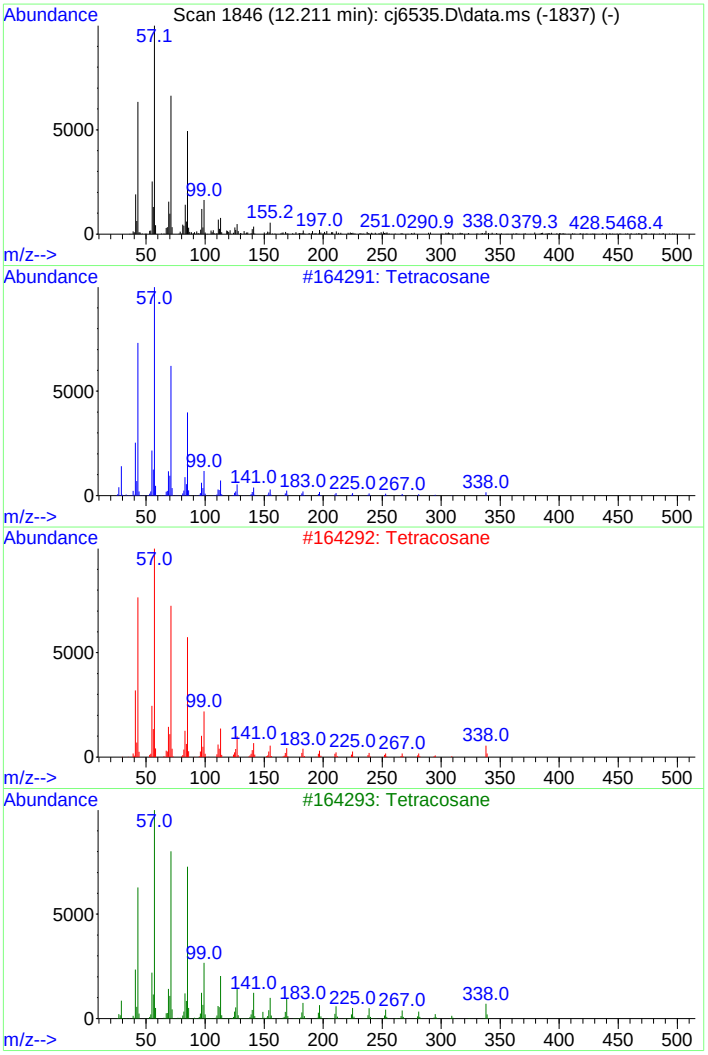
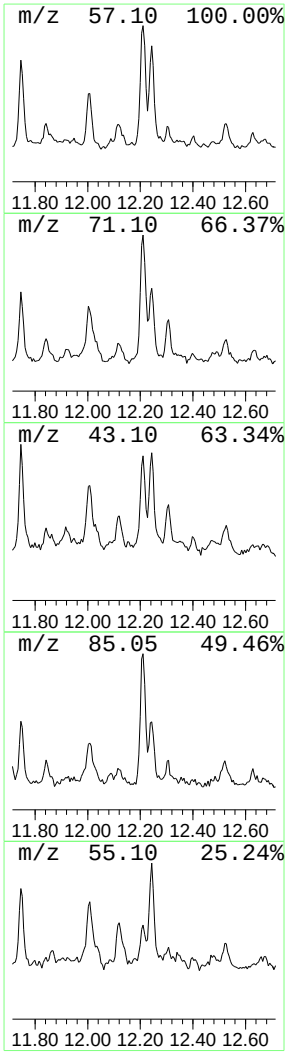
Peak Number 19 Tetracosane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.211	9.99 ppm	667639	Perylene-d12	11.713

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	96
2	Tetracosane	338	C24H50	000646-31-1	93
3	Tetracosane	338	C24H50	000646-31-1	87
4	Tetracosane	338	C24H50	000646-31-1	87
5	Docosane	310	C22H46	000629-97-0	87





Library Search Compound Report

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Acq On : 09 May 2024 11:19 pm
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Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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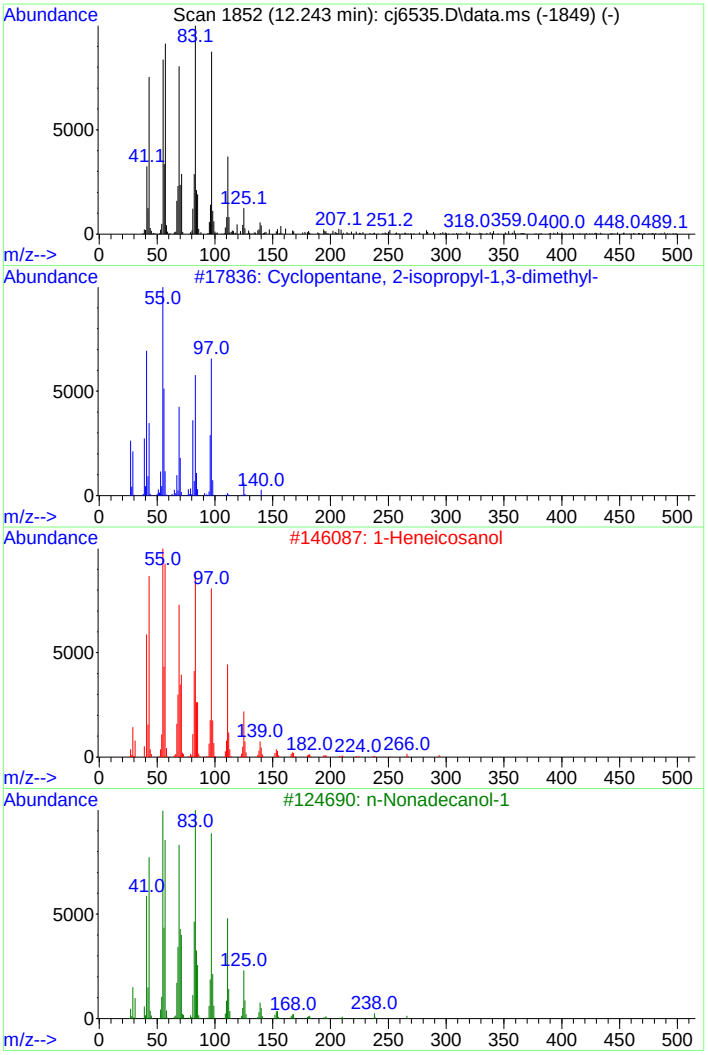
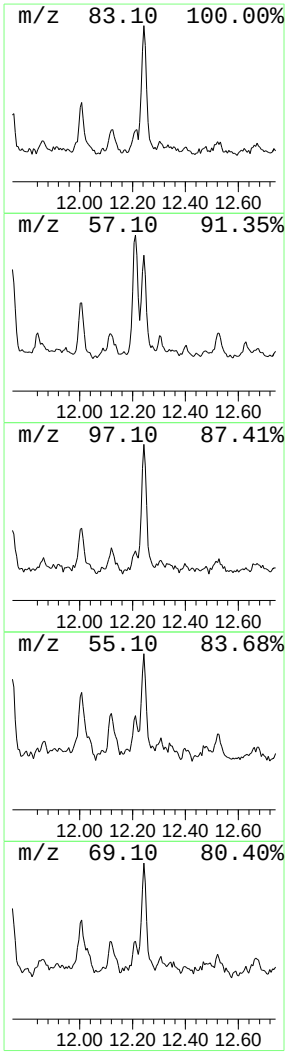
Peak Number 20 Unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.243	11.07 ppm	740271	Perylene-d12	11.713

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 2-isopropyl-1,3-di...	140	C10H20	032281-85-9	81
2	1-Heneicosanol	312	C21H44O	015594-90-8	55
3	n-Nonadecanol-1	284	C19H40O	001454-84-8	55
4	Octacosyl acetate	452	C30H60O2	018206-97-8	50
5	Behenic alcohol	326	C22H46O	000661-19-8	49





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Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
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Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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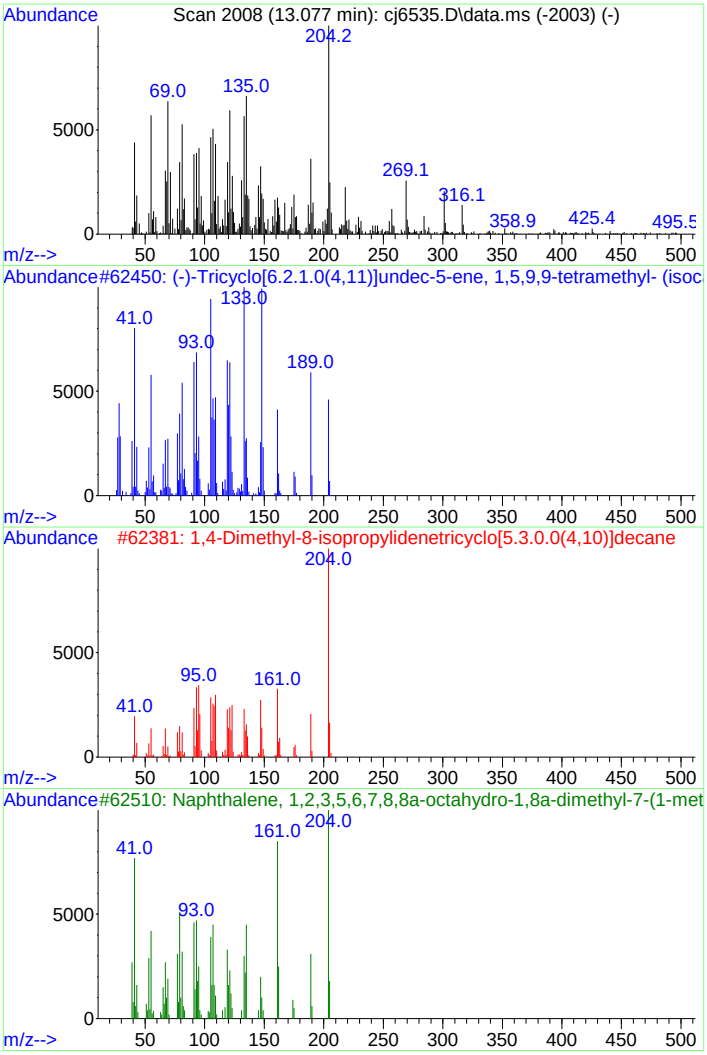
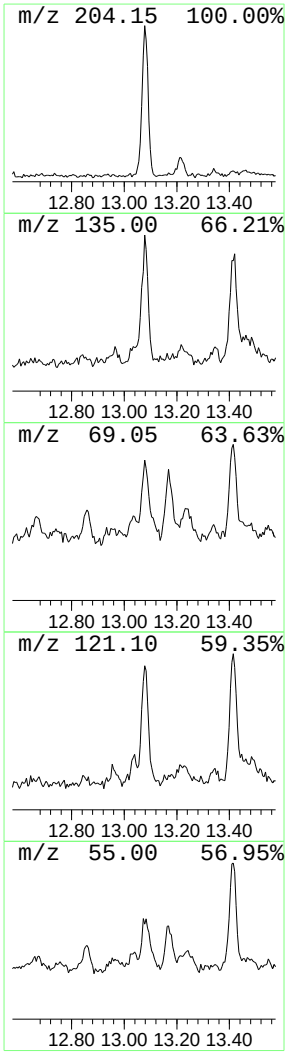
Peak Number 21 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.077	17.22 ppm	1151290	Perylene-d12	11.713

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(-)-Tricyclo[6.2.1.0(4,11)]undec...	204	C15H24	1000154-06-7	58
2	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1000140-07-7	53
3	Naphthalene, 1,2,3,5,6,7,8,8a-oc...	204	C15H24	004630-07-3	49
4	1-Naphthalenecarboxylic acid, de...	316	C21H32O2	001235-39-8	44
5	2H-Cyclopentacyclooctene, 4,5,6,...	204	C15H24	1000221-85-8	43





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

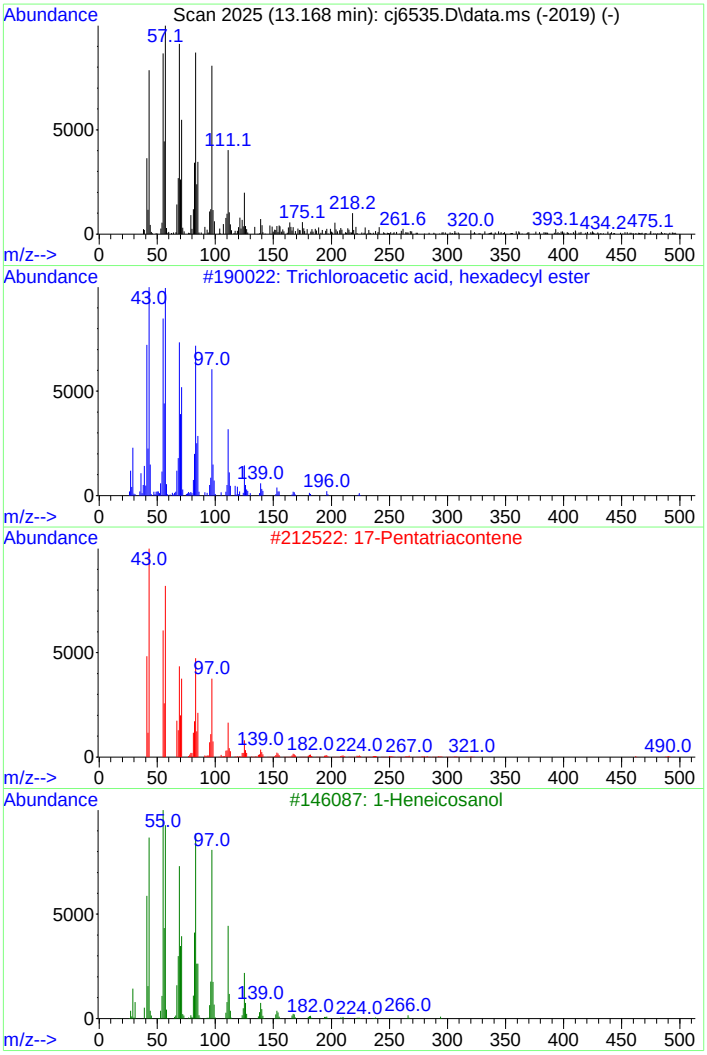
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

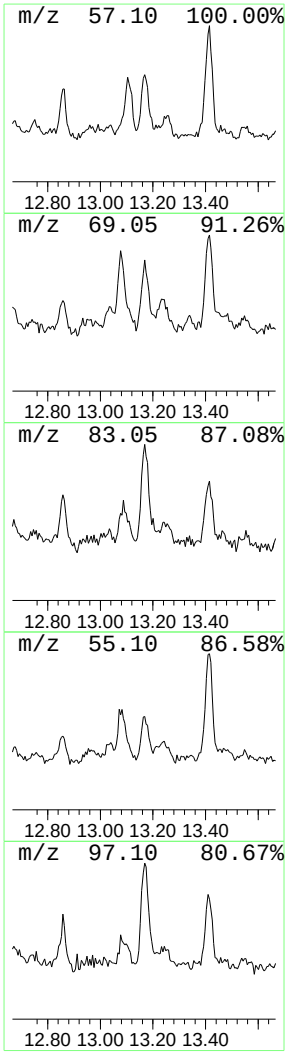
****

Peak Number 22 Unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.168	6.83 ppm	456608	Perylene-d12	11.713

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	91
2	17-Pentatriacontene	491	C35H70	006971-40-0	72
3	1-Heneicosanol	312	C21H44O	015594-90-8	68
4	2-Methyl-2-docosene	322	C23H46	1000131-16-9	64
5	Heptadecyl trifluoroacetate	352	C19H35F3O2	1000351-87-0	62





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

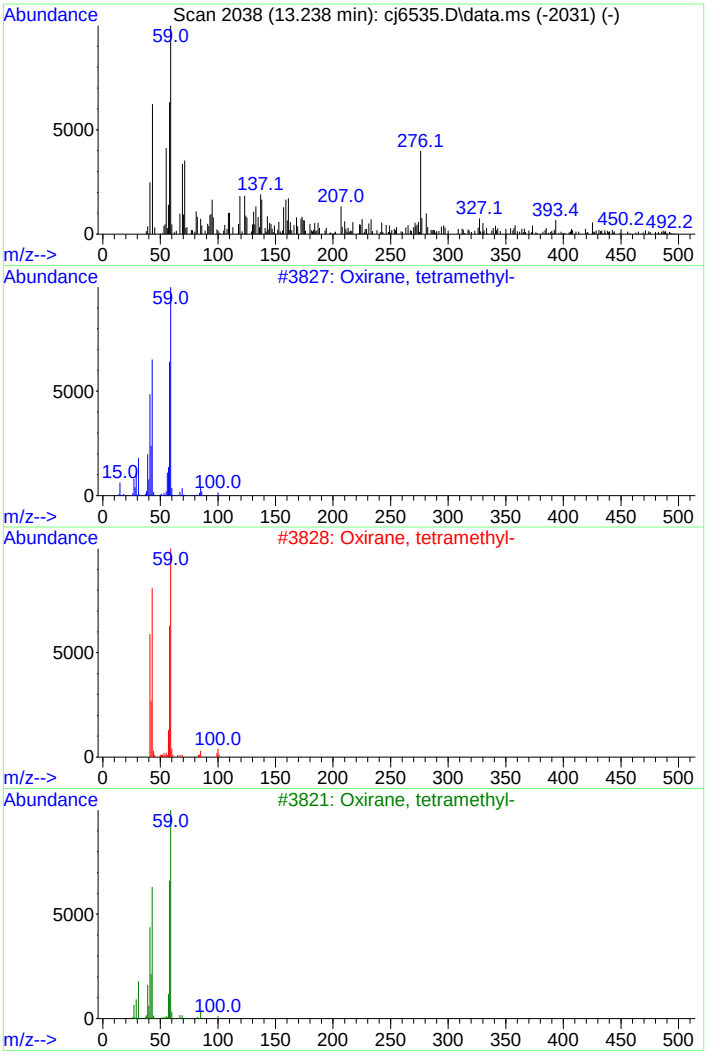
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

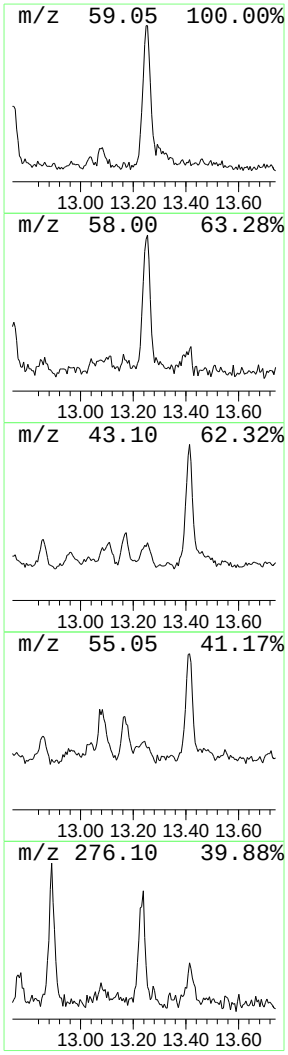
****

Peak Number 23 Oxirane, tetramethyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.238	7.19 ppm	480760	Perylene-d12	11.713

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	46
2	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	43
3	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	43
4	Succinic acid, di(2-methoxyethyl...	234	C10H18O6	1000325-81-8	43
5	Succinic acid, isohexyl 2-methox...	260	C13H24O5	1000325-80-6	37





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

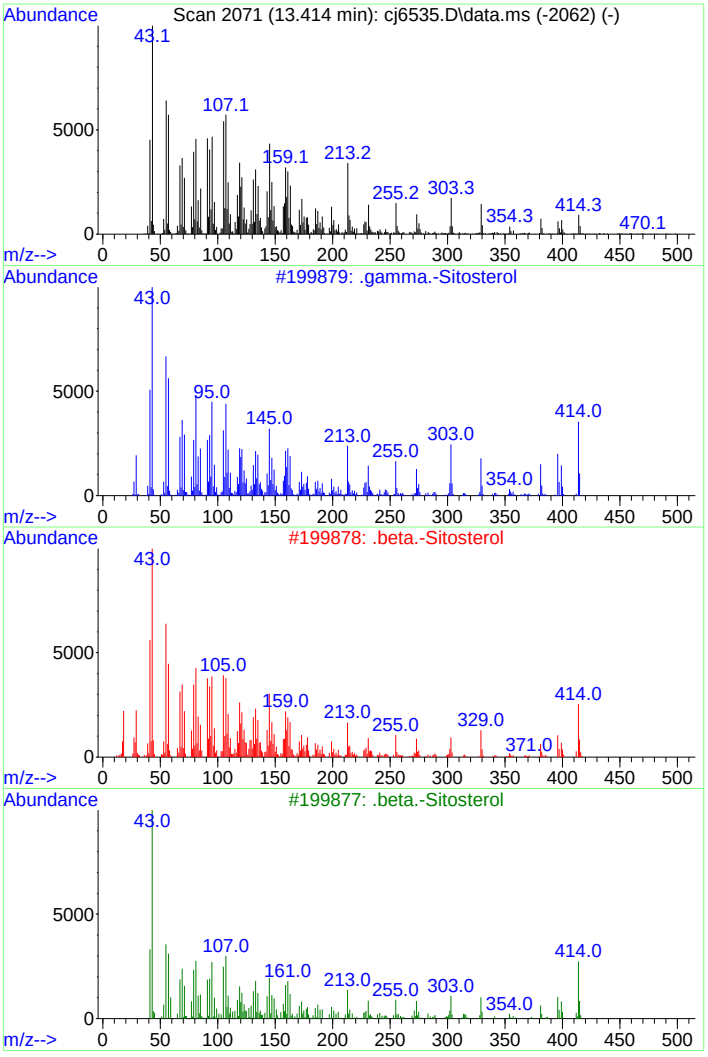
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

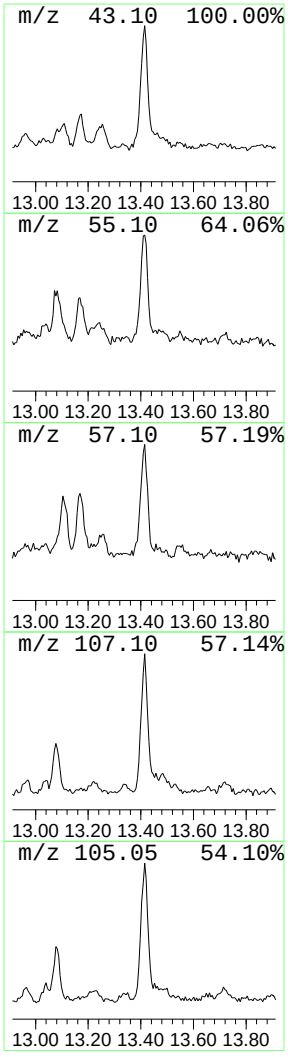
****

Peak Number 24 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.414	37.74 ppm	2522890	Perylene-d12	11.713

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	95
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	91
4	.gamma.-Sitosterol	414	C29H50O	000083-47-6	83
5	Isocholesteryl methyl ether	400	C28H48O	029944-53-4	60





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

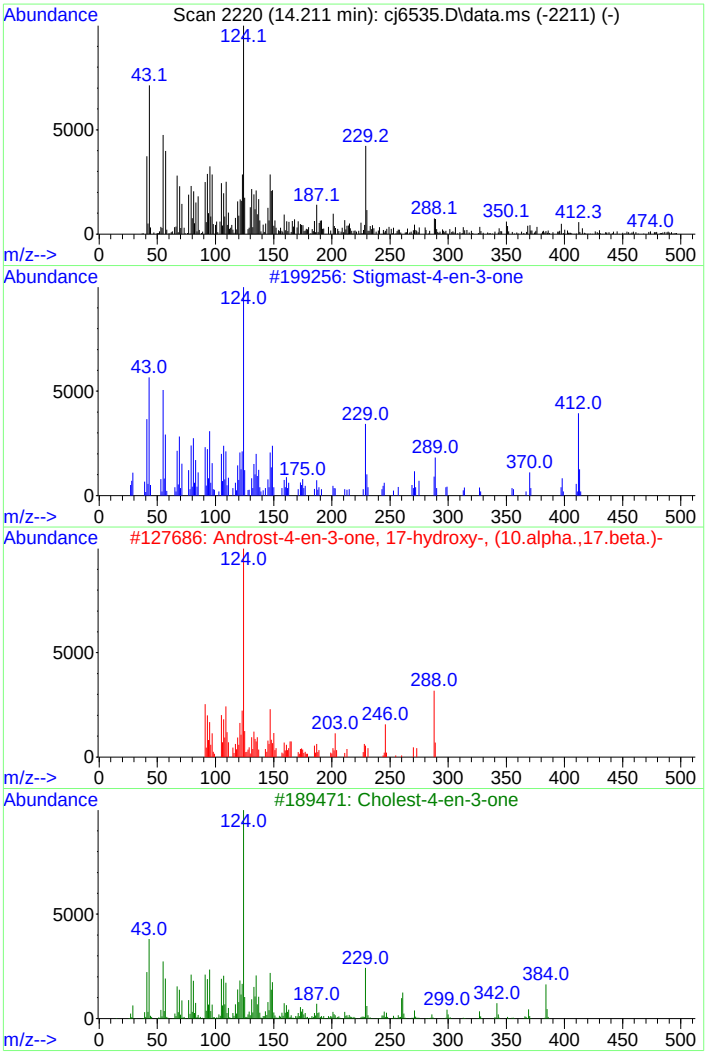
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

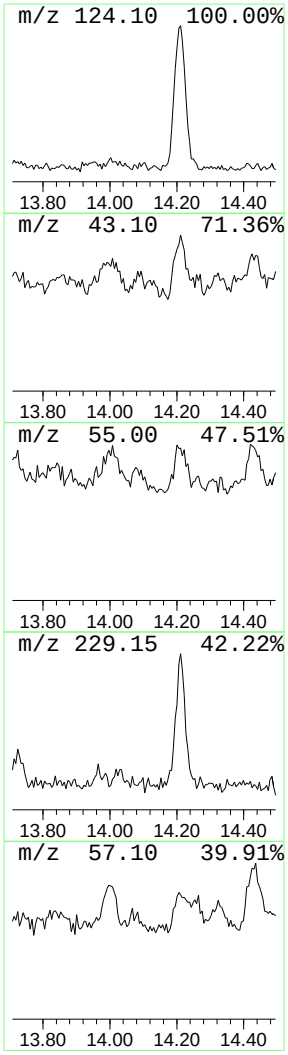
****

Peak Number 25 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.211	7.19 ppm	480817	Perylene-d12	11.713

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	76
2	Androst-4-en-3-one, 17-hydroxy-,...	288	C19H28O2	000604-39-7	64
3	Cholest-4-en-3-one	384	C27H44O	000601-57-0	59
4	Testosterone	288	C19H28O2	000058-22-0	38
5	1'-[3-[Trichloromethyl]-1,2,4-th...	368	C13H19Cl3N4S	050350-57-7	35





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6535.D
Acq On : 09 May 2024 11:19 pm
Operator : rocquans
Sample : jd87833-12
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown alcohol	5.295	55.0	ppm	3597300	3	5.471	2614690	40.0
Unknown	7.547	6.1	ppm	470126	6	7.873	3064340	40.0
n-Hexadecanoic ...	8.370	13.7	ppm	1049050	8	7.873	3064340	40.0
Unknown acid	9.044	21.6	ppm	1650530	8	7.873	3064340	40.0
Octadecanoic acid	9.125	7.5	ppm	531693	9	10.366	2856630	40.0
Eicosanoic acid	9.831	9.5	ppm	679778	9	10.366	2856630	40.0
Unknown	10.093	6.3	ppm	448254	9	10.366	2856630	40.0
Unknown	10.189	8.2	ppm	585985	9	10.366	2856630	40.0
Unknown alcohol	10.269	12.8	ppm	913742	9	10.366	2856630	40.0
Octadecanoic acid	10.494	17.9	ppm	1274560	10	10.366	2856630	40.0
Unknown acid	10.810	8.2	ppm	584308	10	10.366	2856630	40.0
Unknown	10.906	17.1	ppm	1221870	10	10.366	2856630	40.0
Unknown	11.050	11.3	ppm	754959	11	11.713	2674010	40.0
Unknown acid	11.114	23.5	ppm	1573360	11	11.713	2674010	40.0
Unknown	11.205	7.4	ppm	497343	11	11.713	2674010	40.0
Unknown	11.521	17.8	ppm	1191820	11	11.713	2674010	40.0
Unknown	12.008	22.6	ppm	1513320	11	11.713	2674010	40.0
Unknown	12.120	9.4	ppm	625406	11	11.713	2674010	40.0
Tetracosane	12.211	10.0	ppm	667639	11	11.713	2674010	40.0
Unknown	12.243	11.1	ppm	740271	11	11.713	2674010	40.0
Unknown	13.077	17.2	ppm	1151290	11	11.713	2674010	40.0
Unknown	13.168	6.8	ppm	456608	11	11.713	2674010	40.0
Oxirane, tetram...	13.238	7.2	ppm	480760	11	11.713	2674010	40.0
Unknown	13.414	37.7	ppm	2522890	11	11.713	2674010	40.0
Unknown	14.211	7.2	ppm	480817	11	11.713	2674010	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 05/13/24 01:29

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6536.D
Acq On : 09 May 2024 11:38 pm
Operator : rocquans
Sample : jd87833-13 Inst : GCMSCJ
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 10 19:41:36 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

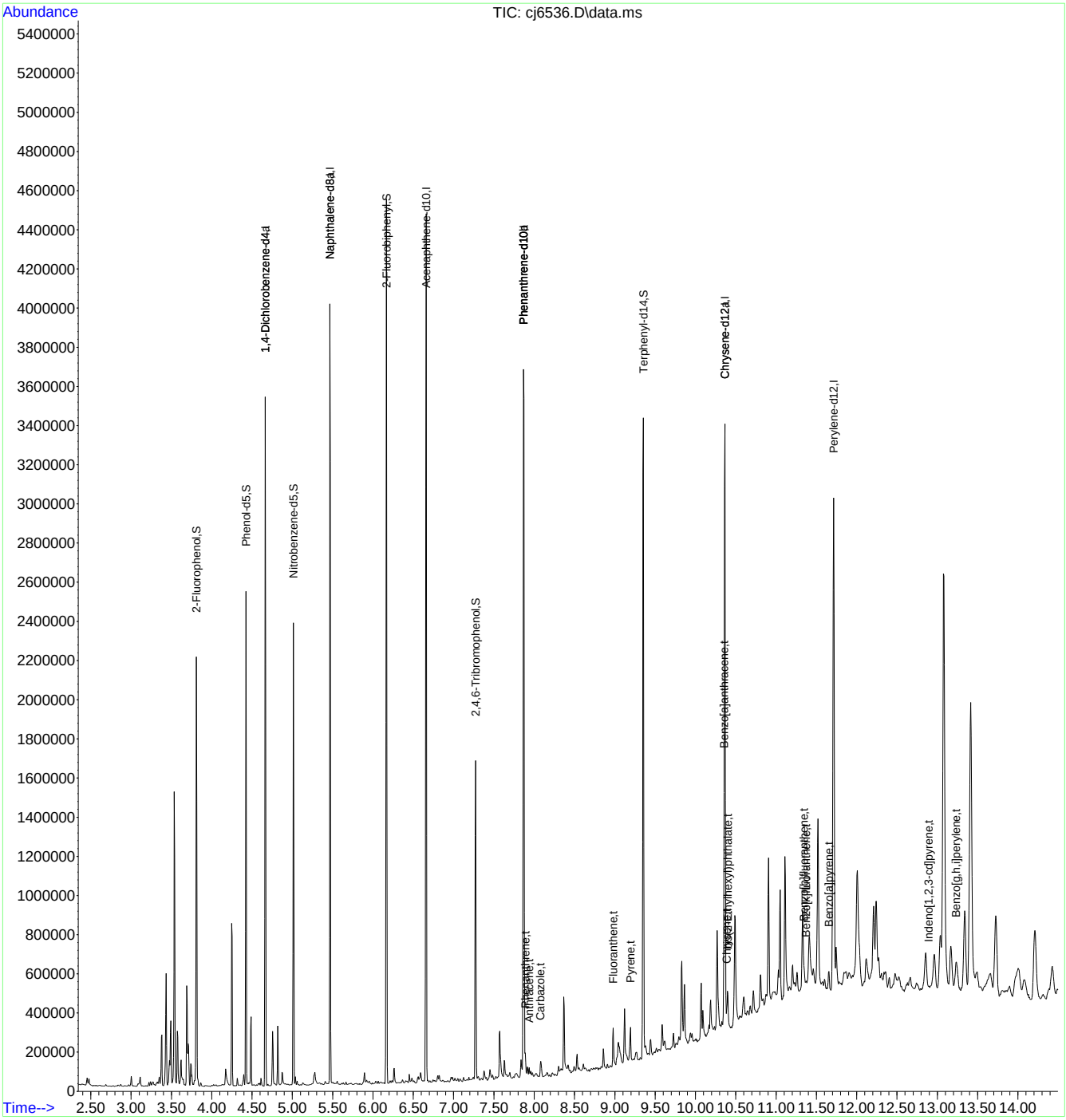
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.664	152	353006	40.00	ppm	0.00
24) Naphthalene-d8	5.466	136	1238601	40.00	ppm	0.00
46) Acenaphthene-d10	6.659	164	688785	40.00	ppm	0.00
69) Phenanthrene-d10	7.868	188	1211117	40.00	ppm	0.00
84) Chrysene-d12	10.366	240	877322	40.00	ppm	0.00
93) Perylene-d12	11.713	264	876016	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.664	152	353006	40.00	ppm	0.00
105) Phenanthrene-d10a	7.868	188	1211117	40.00	ppm	0.00
107) Naphthalene-d8a	5.466	136	1238601	40.00	ppm	0.00
109) Phenanthrene-d10b	7.868	188	1211117	40.00	ppm	0.00
112) Chrysene-d12a	10.366	240	877322	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.808	112	373516	36.81	ppm	0.01
Spiked Amount 50.000			Recovery = 73.62%			
8) Phenol-d5	4.423	99	498950	38.13	ppm	0.00
Spiked Amount 50.000			Recovery = 76.26%			
25) Nitrobenzene-d5	5.012	82	485811	38.31	ppm	0.00
Spiked Amount 50.000			Recovery = 76.62%			
51) 2-Fluorobiphenyl	6.167	172	888320	40.99	ppm	0.00
Spiked Amount 50.000			Recovery = 81.98%			
74) 2,4,6-Tribromophenol	7.274	330	128943	48.56	ppm	0.00
Spiked Amount 50.000			Recovery = 97.12%			
87) Terphenyl-d14	9.355	244	952393	43.94	ppm	0.00
Spiked Amount 50.000			Recovery = 87.88%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
78) Phenanthrene	7.889	178	31001	1.0592	ppm	97
79) Anthracene	7.937	178	7301	0.2491	ppm	87
80) Carbazole	8.076	167	4588	0.1680	ppm	92
82) Fluoranthene	8.980	202	64308	2.0295	ppm	98
86) Pyrene	9.194	202	58198	1.9506	ppm	98
89) Benzo[a]anthracene	10.355	228	26835	0.9513	ppm	84
91) Chrysene	10.387	228	26387	1.0139	ppm	96
92) bis(2-Ethylhexyl)phtha...	10.403	149	5424	0.2751	ppm	96
95) Benzo[b]fluoranthene	11.344	252	33486m	1.2654	ppm	
96) Benzo[k]fluoranthene	11.371	252	11229m	0.4716	ppm	
97) Benzo[a]pyrene	11.655	252	22763	1.0391	ppm	91
98) Indeno[1,2,3-cd]pyrene	12.890	276	18494	0.6983	ppm	88
102) Benzo[g,h,i]perylene	13.233	276	17417	0.8463	ppm	94

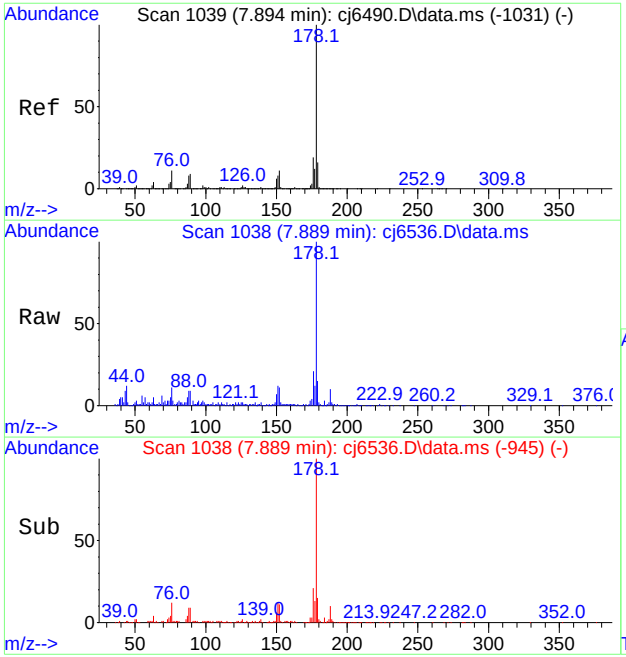
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6536.D
Acq On : 09 May 2024 11:38 pm
Operator : rocquans
Sample : jd87833-13 Inst : GCMSCJ
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 10 19:41:36 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

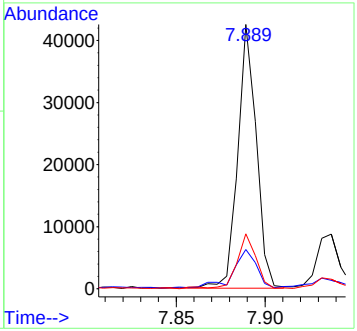


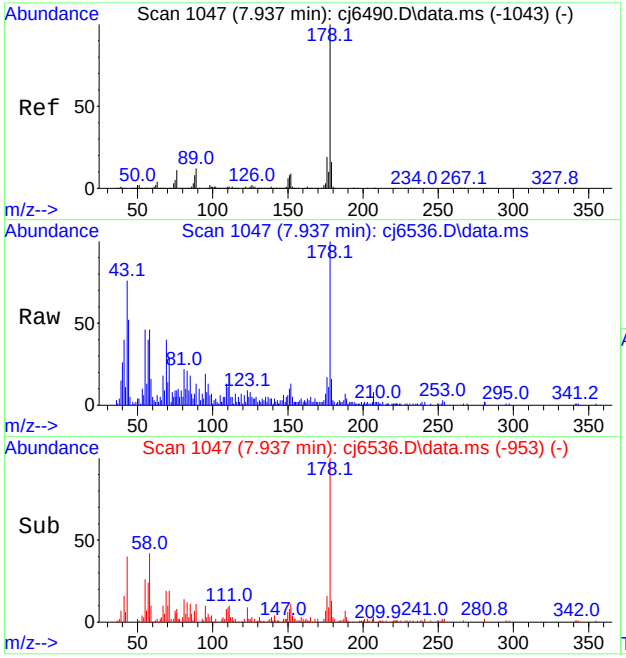


#78
Phenanthrene
Concen: 1.0592 ppm
RT: 7.889 min Scan# 1038
Delta R.T. -0.005 min
Lab File: cj6536.D
Acq: 09 May 2024 11:38 pm

Tgt Ion:178 Resp: 31001

Ion	Ratio	Lower	Upper
178	100		
179	14.3	0.0	45.5
176	20.5	0.0	49.2

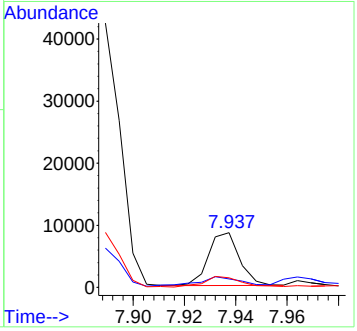


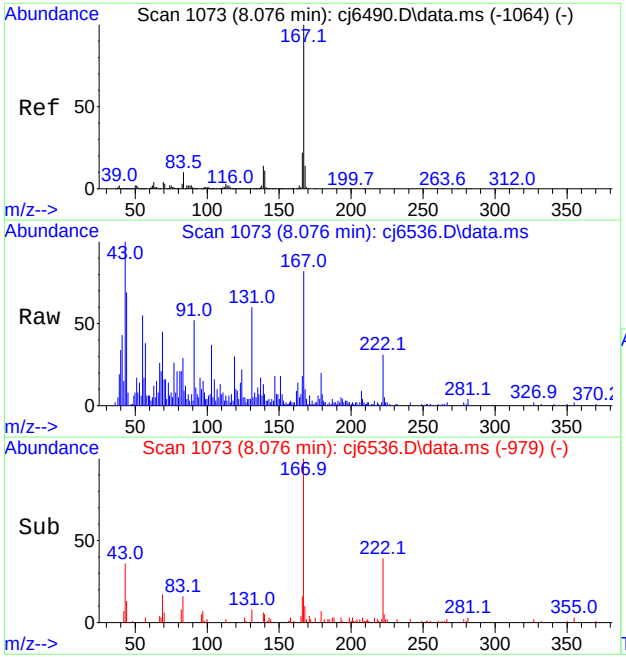


#79
Anthracene
Concen: 0.2491 ppm
RT: 7.937 min Scan# 1047
Delta R.T. 0.000 min
Lab File: cj6536.D
Acq: 09 May 2024 11:38 pm

Tgt Ion:178 Resp: 7301

Ion	Ratio	Lower	Upper
178	100		
179	6.5	0.0	46.1
176	16.3	0.0	48.7

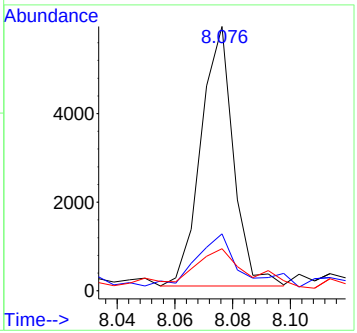


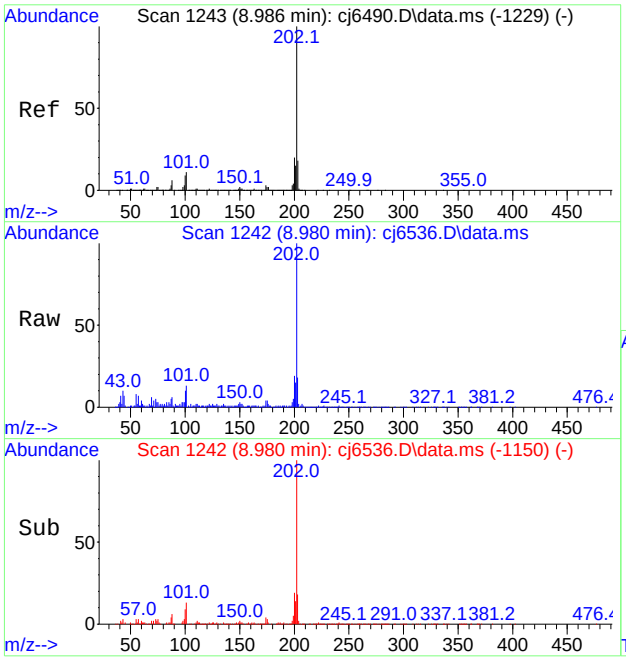


#80
Carbazole
Concen: 0.1680 ppm
RT: 8.076 min Scan# 1073
Delta R.T. 0.000 min
Lab File: cj6536.D
Acq: 09 May 2024 11:38 pm

Tgt Ion:167 Resp: 4588

Ion	Ratio	Lower	Upper
167	100		
166	16.7	0.0	51.7
139	12.4	0.0	43.8

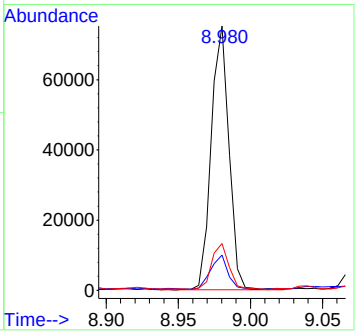


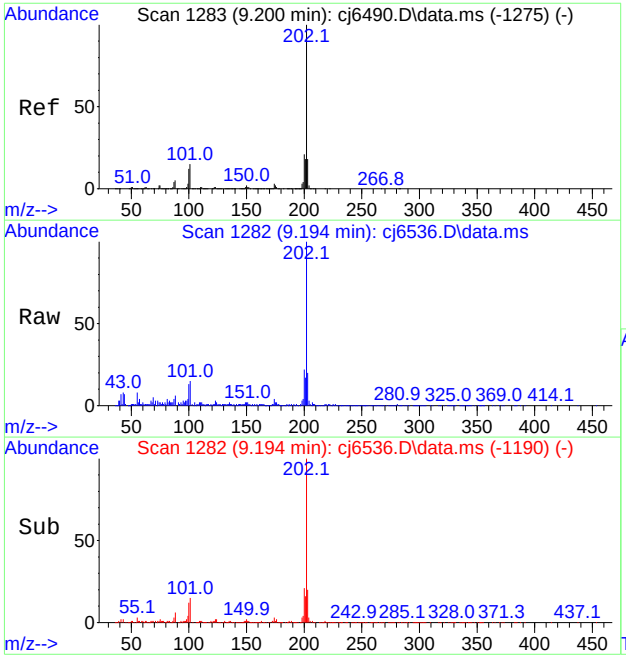


#82
Fluoranthene
Concen: 2.0295 ppm
RT: 8.980 min Scan# 1242
Delta R.T. -0.006 min
Lab File: cj6536.D
Acq: 09 May 2024 11:38 pm

Tgt Ion:202 Resp: 64308

Ion	Ratio	Lower	Upper
202	100		
101	13.0	0.0	41.4
203	17.1	0.0	47.6

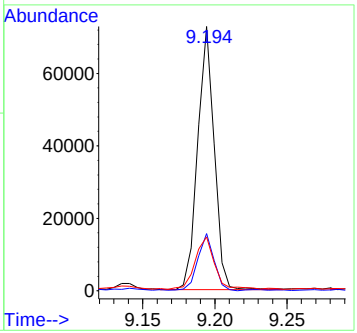


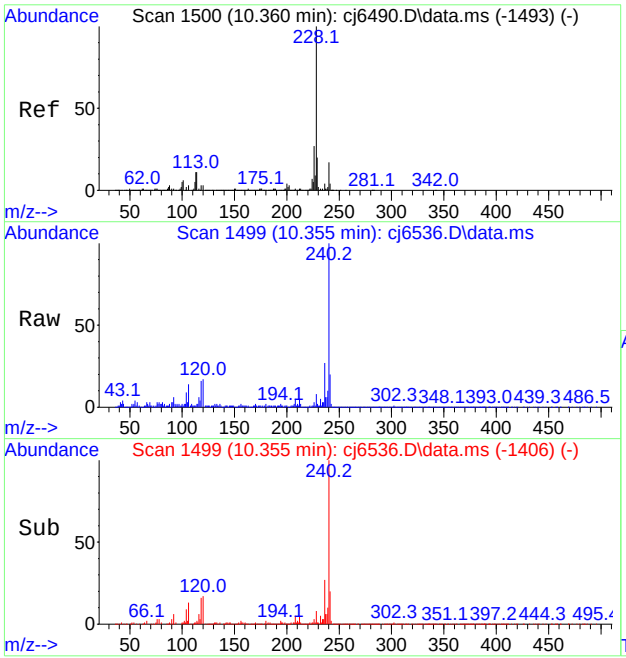


#86
Pyrene
Concen: 1.9506 ppm
RT: 9.194 min Scan# 1282
Delta R.T. -0.006 min
Lab File: cj6536.D
Acq: 09 May 2024 11:38 pm

Tgt Ion:202 Resp: 58198

Ion	Ratio	Lower	Upper
202	100		
200	21.4	0.0	51.4
203	19.8	0.0	47.8

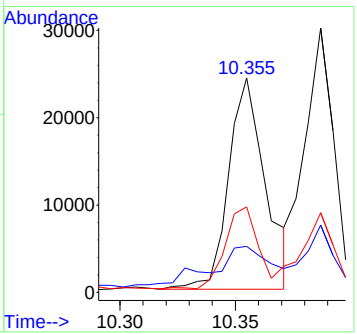


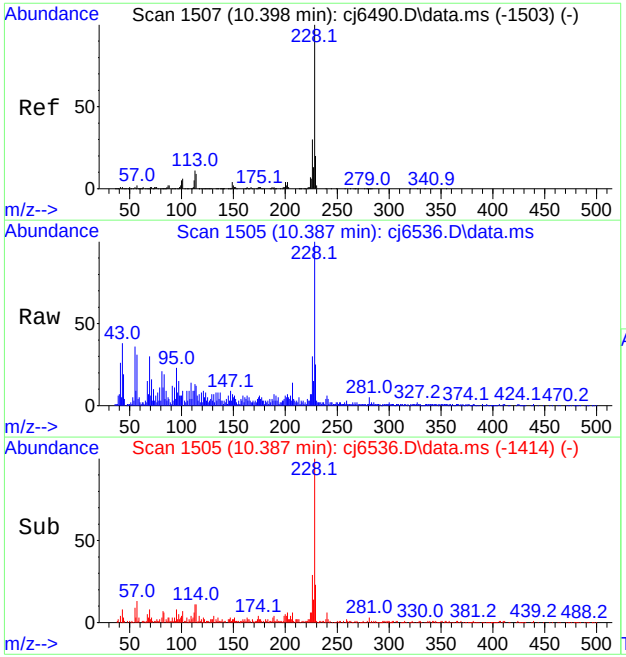


#89
Benzo[a]anthracene
Concen: 0.9513 ppm
RT: 10.355 min Scan# 1499
Delta R.T. -0.005 min
Lab File: cj6536.D
Acq: 09 May 2024 11:38 pm

Tgt Ion:228 Resp: 26835

Ion	Ratio	Lower	Upper
228	100		
229	16.4	0.0	49.8
226	39.1	0.0	57.1

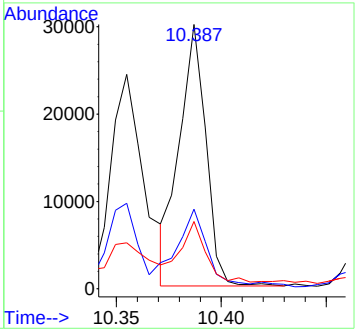


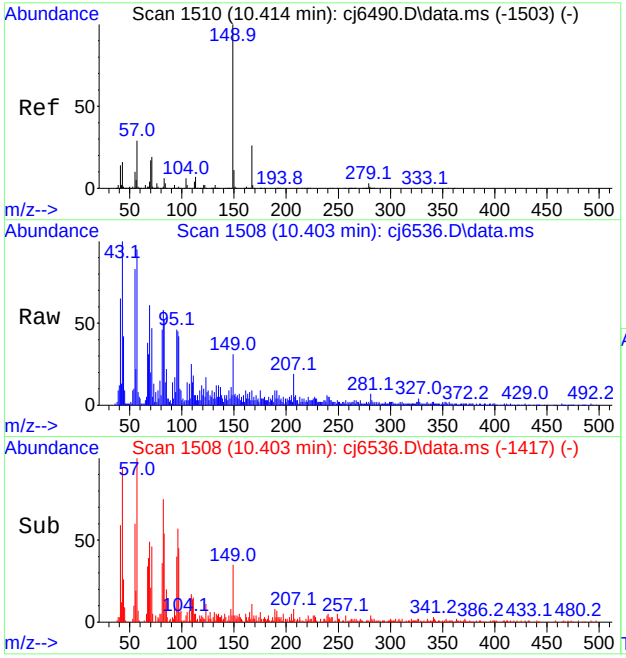


#91
Chrysene
Concen: 1.0139 ppm
RT: 10.387 min Scan# 1505
Delta R.T. -0.011 min
Lab File: cj6536.D
Acq: 09 May 2024 11:38 pm

Tgt Ion:228 Resp: 26387

Ion	Ratio	Lower	Upper
228	100		
226	27.8	0.0	59.9
229	22.2	0.0	49.8

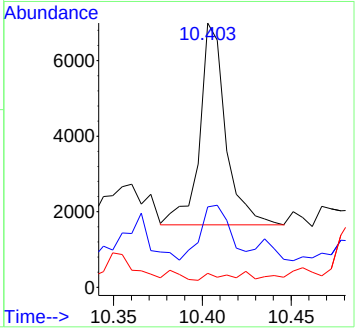


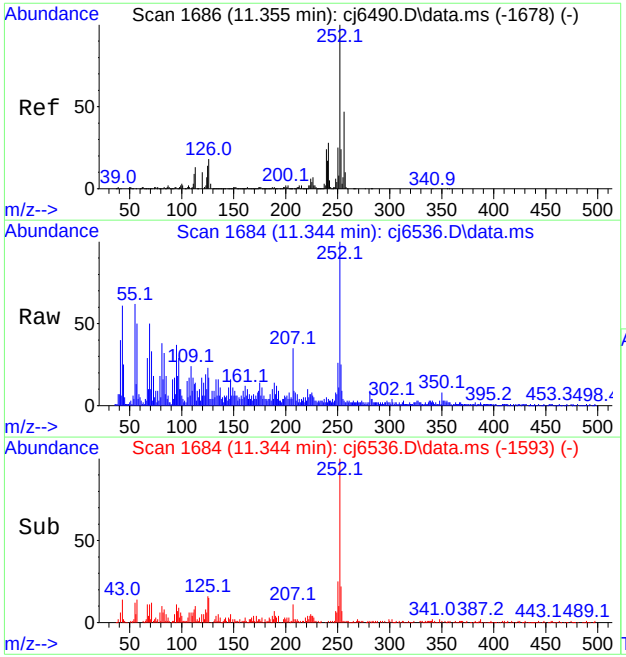


#92
bis(2-Ethylhexyl)phthalate
Concen: 0.2751 ppm
RT: 10.403 min Scan# 1508
Delta R.T. -0.011 min
Lab File: cj6536.D
Acq: 09 May 2024 11:38 pm

Tgt Ion:149 Resp: 5424

Ion	Ratio	Lower	Upper
149	100		
167	24.2	0.0	56.1
279	2.0	0.0	33.2

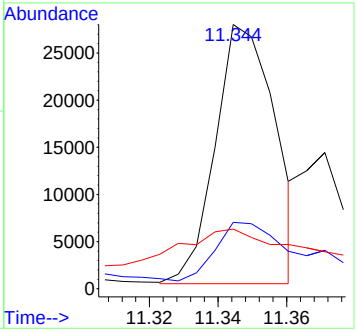


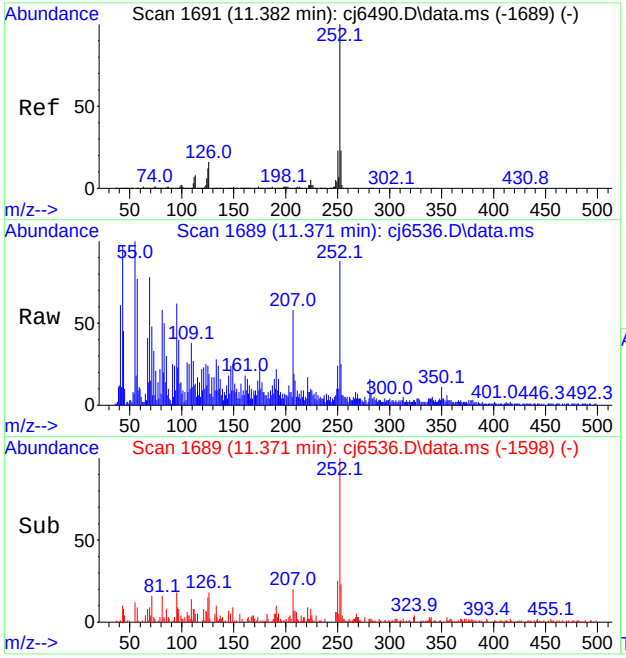


#95
Benzo[b]fluoranthene
Concen: 1.2654 ppm m
RT: 11.344 min Scan# 1684
Delta R.T. -0.011 min
Lab File: cj6536.D
Acq: 09 May 2024 11:38 pm

Tgt Ion:252 Resp: 33486

Ion	Ratio	Lower	Upper
252	100		
253	25.1	0.0	54.7
125	22.6	0.0	44.2

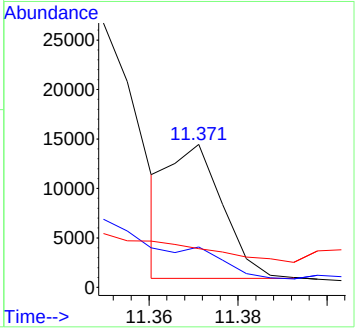


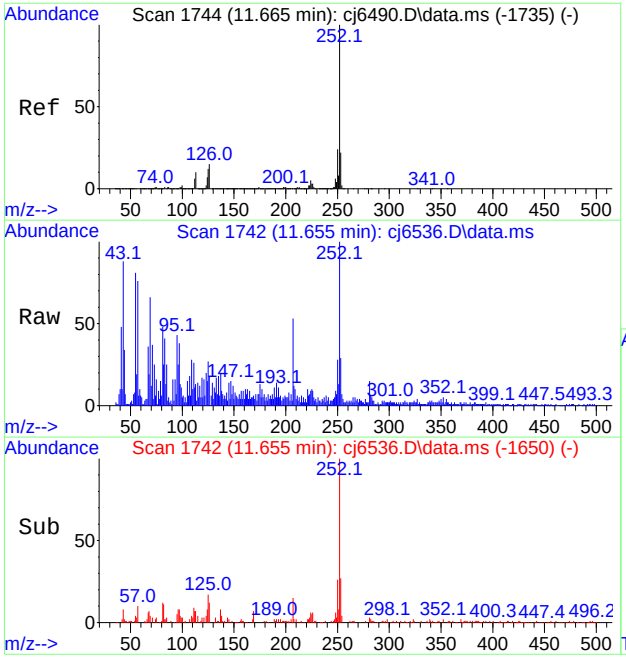


#96
Benzo[k]fluoranthene
Concen: 0.4716 ppm m
RT: 11.371 min Scan# 1689
Delta R.T. -0.011 min
Lab File: cj6536.D
Acq: 09 May 2024 11:38 pm

Tgt Ion:252 Resp: 11229

Ion	Ratio	Lower	Upper
252	100		
253	28.2	0.0	52.6
125	27.1	0.0	42.4

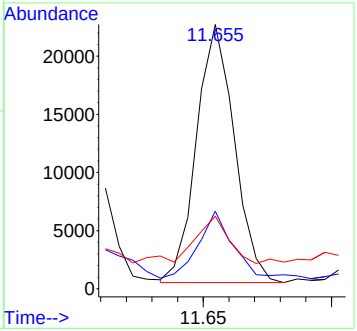


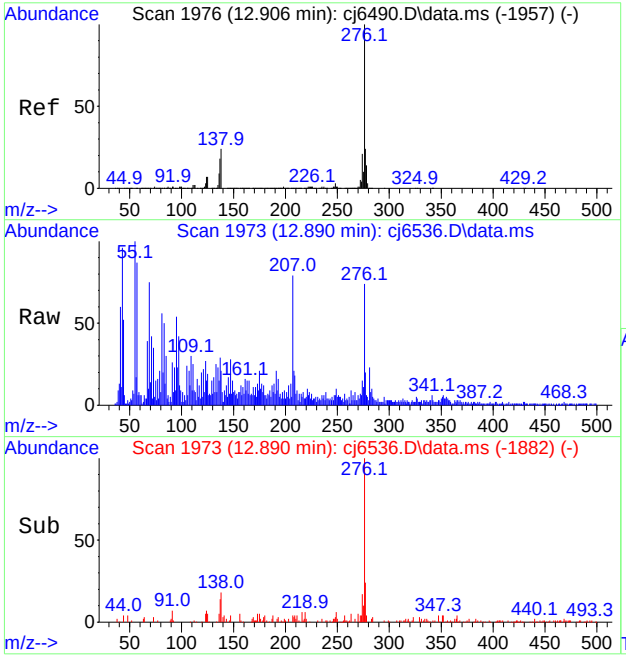


#97
Benzo[a]pyrene
Concen: 1.0391 ppm
RT: 11.655 min Scan# 1742
Delta R.T. -0.010 min
Lab File: cj6536.D
Acq: 09 May 2024 11:38 pm

Tgt Ion:252 Resp: 22763

Ion	Ratio	Lower	Upper
252	100		
253	25.4	0.0	51.9
125	16.7	0.0	42.1

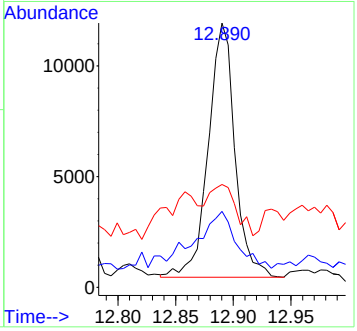


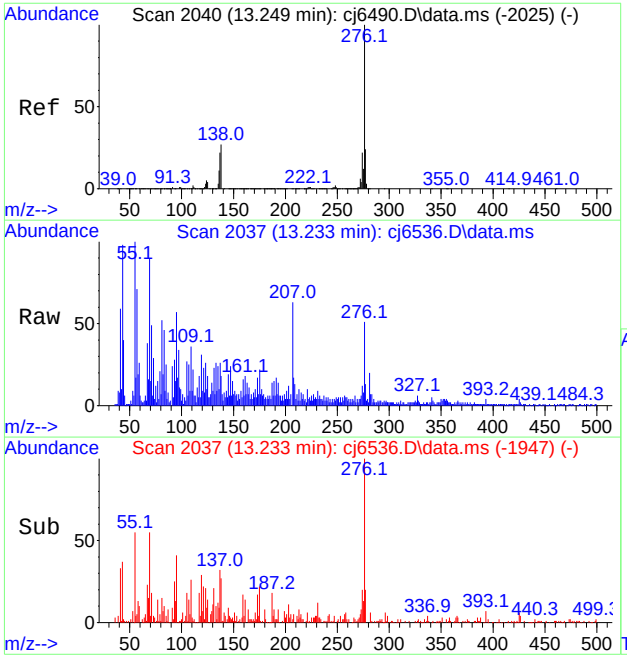


#98
Indeno[1,2,3-cd]pyrene
Concen: 0.6983 ppm
RT: 12.890 min Scan# 1973
Delta R.T. -0.016 min
Lab File: cj6536.D
Acq: 09 May 2024 11:38 pm

Tgt Ion:276 Resp: 18494

Ion	Ratio	Lower	Upper
276	100		
138	19.3	0.0	54.2
137	11.7	0.0	47.9

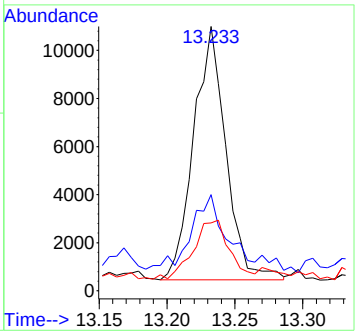




#102
Benzo[g,h,i]perylene
Concen: 0.8463 ppm
RT: 13.233 min Scan# 2037
Delta R.T. -0.017 min
Lab File: cj6536.D
Acq: 09 May 2024 11:38 pm

Tgt Ion:276 Resp: 17417

Ion	Ratio	Lower	Upper
276	100		
138	29.1	0.0	56.7
277	20.3	0.0	54.1



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6536.D
Acq On : 09 May 2024 11:38 pm
Operator : rocquans
Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6536.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.172	340	343	353	rVB	83534	97988	2.58%	0.169%
2	4.247	353	357	363	rVB	830789	588184	15.50%	1.017%
3	4.396	380	385	387	rBV2	57701	48005	1.26%	0.083%
4	4.423	387	390	396	rBV	2520920	1457531	38.41%	2.521%
5	4.487	396	402	405	rVB	349470	236620	6.24%	0.409%
6	4.664	430	435	439	rBV	3519581	2155134	56.79%	3.728%
7	4.755	447	452	460	rBV	277317	220110	5.80%	0.381%
8	4.819	460	464	469	rBV	302532	182121	4.80%	0.315%
9	4.872	469	474	480	rBV2	64853	67941	1.79%	0.118%
10	5.012	491	500	504	rBV	2361400	1404646	37.01%	2.430%
11	5.279	535	550	557	rBV3	65667	119990	3.16%	0.208%
12	5.466	580	585	590	rBV	3983604	2639552	69.56%	4.566%
13	5.894	658	665	668	rBV	60960	64365	1.70%	0.111%
14	6.167	712	716	720	rBV	4519684	2671752	70.40%	4.621%
15	6.263	731	734	740	rVB	77467	71408	1.88%	0.124%
16	6.589	791	795	801	rVB4	43144	50818	1.34%	0.088%
17	6.659	801	808	814	rVB	4435585	3019369	79.56%	5.223%
18	7.274	913	923	927	rBV	1629948	1250555	32.95%	2.163%
19	7.376	939	942	946	rBV4	46561	47670	1.26%	0.082%
20	7.451	950	956	960	rBV6	55817	70934	1.87%	0.123%
21	7.574	972	979	987	rBV3	240587	293994	7.75%	0.509%
22	7.627	987	989	997	rVB	83334	88194	2.32%	0.153%
23	7.777	1008	1017	1024	rBV5	25482	66281	1.75%	0.115%
24	7.836	1024	1028	1030	rBV	92057	84272	2.22%	0.146%
25	7.868	1030	1034	1041	rVB	3596326	3119599	82.21%	5.396%
26	8.082	1070	1074	1079	rVB3	79395	94864	2.50%	0.164%
27	8.301	1111	1115	1118	rBV2	48350	59264	1.56%	0.103%
28	8.365	1124	1127	1135	rBV	374185	347926	9.17%	0.602%
29	8.419	1135	1137	1145	rVB2	41799	54008	1.42%	0.093%
30	8.531	1154	1158	1168	rBV4	85020	95279	2.51%	0.165%
31	8.857	1216	1219	1226	rVB2	100835	87325	2.30%	0.151%
32	8.980	1238	1242	1248	rBV	199970	197706	5.21%	0.342%
33	9.044	1248	1254	1264	rBV6	116562	281867	7.43%	0.488%
34	9.119	1264	1268	1277	rBV	277530	315656	8.32%	0.546%
35	9.194	1277	1282	1287	rBV2	169142	165595	4.36%	0.286%
36	9.269	1287	1296	1300	rBV3	40721	68949	1.82%	0.119%
37	9.355	1307	1312	1321	rBV	3277116	2933000	77.29%	5.073%
38	9.446	1326	1329	1333	rBV2	79900	78153	2.06%	0.135%
39	9.590	1351	1356	1359	rBV3	136433	155413	4.10%	0.269%
40	9.729	1374	1382	1385	rBV3	85077	101191	2.67%	0.175%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6536.D
Acq On : 09 May 2024 11:38 pm
Operator : rocquans
Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.793	1390	1394	1397	rBV	41992	54569	1.44%	0.094%
42	9.831	1397	1401	1404	rVV2	404891	415594	10.95%	0.719%
43	9.863	1404	1407	1415	rVB	302681	312350	8.23%	0.540%
44	9.938	1415	1421	1423	rBV7	54293	77692	2.05%	0.134%
45	10.071	1438	1446	1448	rBV	296442	277448	7.31%	0.480%
46	10.093	1448	1450	1457	rVB5	137602	136538	3.60%	0.236%
47	10.189	1458	1468	1474	rBV5	184177	309237	8.15%	0.535%
48	10.269	1478	1483	1492	rBV	509115	579950	15.28%	1.003%
49	10.366	1492	1501	1504	rBV	3079139	2837608	74.77%	4.908%
50	10.398	1504	1507	1514	rVB3	189968	237870	6.27%	0.411%
51	10.489	1517	1524	1532	rBV2	574297	832130	21.93%	1.439%
52	10.601	1540	1545	1551	rBV6	104471	168031	4.43%	0.291%
53	10.681	1557	1560	1563	rBV5	46931	55912	1.47%	0.097%
54	10.719	1563	1567	1574	rBV5	116470	141484	3.73%	0.245%
55	10.804	1577	1583	1587	rBV2	190934	257230	6.78%	0.445%
56	10.906	1592	1602	1608	rVV	769414	911957	24.03%	1.577%
57	10.986	1608	1617	1620	rVV	71577	244948	6.45%	0.424%
58	11.050	1620	1629	1633	rVV2	579053	768480	20.25%	1.329%
59	11.109	1635	1640	1648	rVV	733349	894117	23.56%	1.547%
60	11.168	1648	1651	1654	rVV5	60812	101227	2.67%	0.175%
61	11.205	1654	1658	1665	rVV2	161238	320661	8.45%	0.555%
62	11.259	1665	1668	1673	rVV	114404	154618	4.07%	0.267%
63	11.328	1676	1681	1688	rVV2	415961	589019	15.52%	1.019%
64	11.409	1691	1696	1704	rVV4	264011	575434	15.16%	0.995%
65	11.462	1704	1706	1711	rVV4	93514	125778	3.31%	0.218%
66	11.521	1711	1717	1724	rVB	847076	1096870	28.90%	1.897%
67	11.601	1730	1732	1736	rVB	50116	47667	1.26%	0.082%
68	11.655	1738	1742	1747	rVB	96322	103789	2.73%	0.180%
69	11.713	1747	1753	1757	rBV	2515151	2909136	76.66%	5.032%
70	11.746	1757	1759	1764	rVB	190572	208256	5.49%	0.360%
71	11.863	1772	1781	1785	rBV8	67742	198886	5.24%	0.344%
72	11.906	1786	1789	1794	rVV7	41111	57547	1.52%	0.100%
73	12.008	1799	1808	1819	rVB4	591763	1368530	36.06%	2.367%
74	12.120	1820	1829	1836	rBV7	139532	313242	8.25%	0.542%
75	12.211	1836	1846	1849	rBV	373946	588214	15.50%	1.017%
76	12.243	1849	1852	1856	rVB	306644	358676	9.45%	0.620%
77	12.361	1867	1874	1878	rVB9	81171	186491	4.91%	0.323%
78	12.403	1878	1882	1886	rVB2	56921	67001	1.77%	0.116%
79	12.473	1888	1895	1900	rVV9	75813	166861	4.40%	0.289%
80	12.521	1902	1904	1917	rVB9	77209	164305	4.33%	0.284%
81	12.628	1917	1924	1927	rBV9	47954	101984	2.69%	0.176%
82	12.666	1927	1931	1940	rVV8	64705	117586	3.10%	0.203%
83	12.740	1942	1945	1953	rVB10	38491	69994	1.84%	0.121%
84	12.853	1959	1966	1976	rBV6	183152	370040	9.75%	0.640%
85	12.965	1979	1987	1993	rVV5	173492	342977	9.04%	0.593%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6536.D
Acq On : 09 May 2024 11:38 pm
Operator : rocquans
Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	13.040	1994	2001	2003	rVV4	270842	465059	12.25%	0.804%
87	13.077	2003	2008	2020	rVV3	2117225	3794897	100.00%	6.564%
88	13.168	2020	2025	2031	rVV3	214125	395764	10.43%	0.685%
89	13.238	2032	2038	2048	rVB6	146620	338760	8.93%	0.586%
90	13.339	2048	2057	2063	rBV3	407880	756544	19.94%	1.309%
91	13.414	2063	2071	2081	rVV2	1455160	2821460	74.35%	4.880%
92	13.495	2081	2086	2092	rVB10	78184	150561	3.97%	0.260%
93	13.660	2099	2117	2122	rBV10	89389	349100	9.20%	0.604%
94	13.725	2122	2129	2138	rVB4	410455	863308	22.75%	1.493%
95	13.805	2138	2144	2148	rBV9	28500	67879	1.79%	0.117%
96	13.896	2156	2161	2168	rVB9	55598	116214	3.06%	0.201%
97	14.003	2168	2181	2189	rBV7	145068	601109	15.84%	1.040%
98	14.083	2190	2196	2210	rVB7	101378	315752	8.32%	0.546%
99	14.211	2212	2220	2233	rBV4	352500	852244	22.46%	1.474%
100	14.425	2246	2260	2269	rBV6	168269	552136	14.55%	0.955%

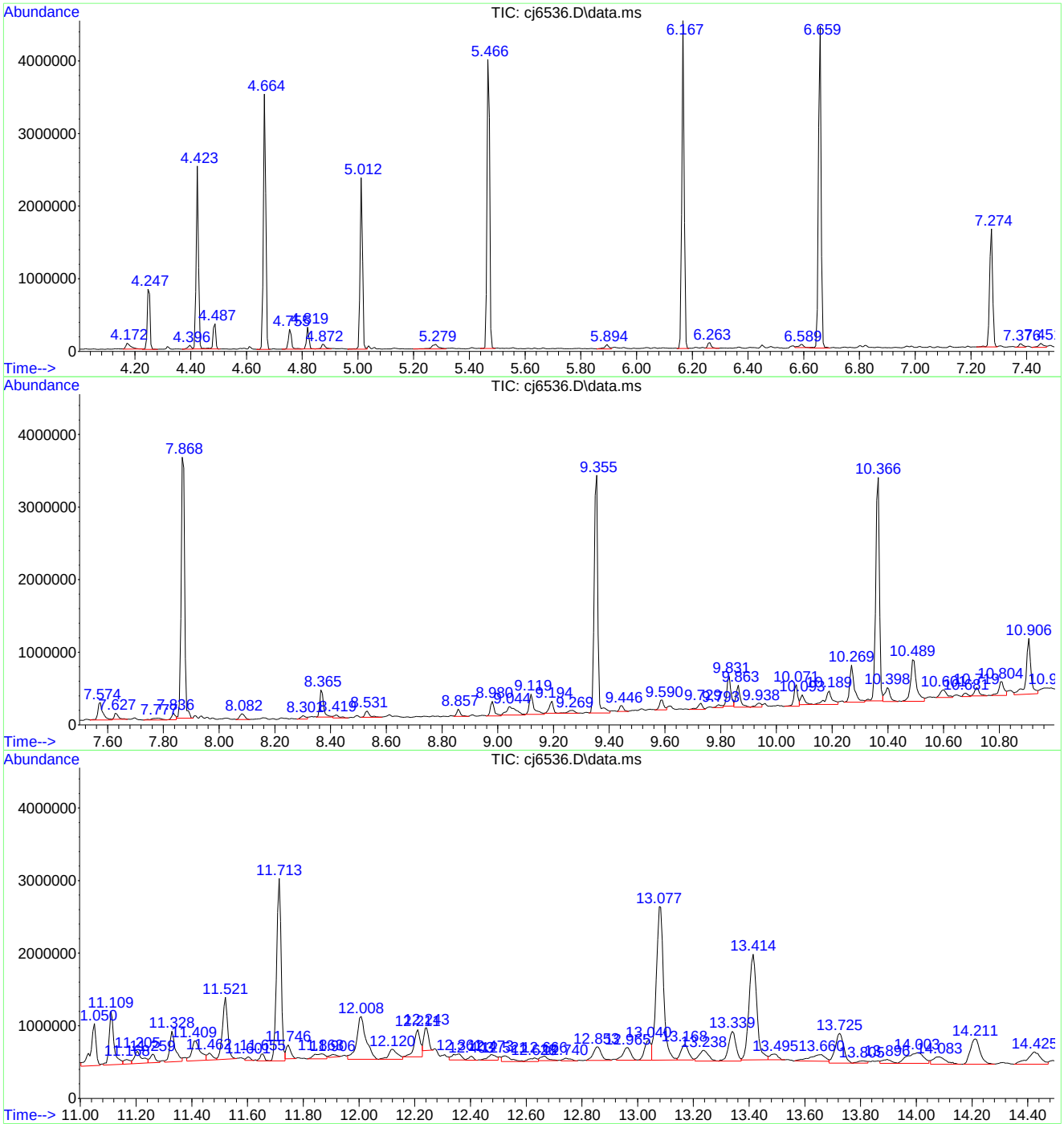
Sum of corrected areas: 57811950

LSC Report - Integrated Chromatogram

```
Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6536.D
Acq On    : 09 May 2024  11:38 pm
Operator  : rocquans
Sample    : jd87833-13
Misc      : op54460,ecj297,30.0,,,1,1
ALS Vial  : 27   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title  : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6536.D
Acq On : 09 May 2024 11:38 pm
Operator : rocquans
Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

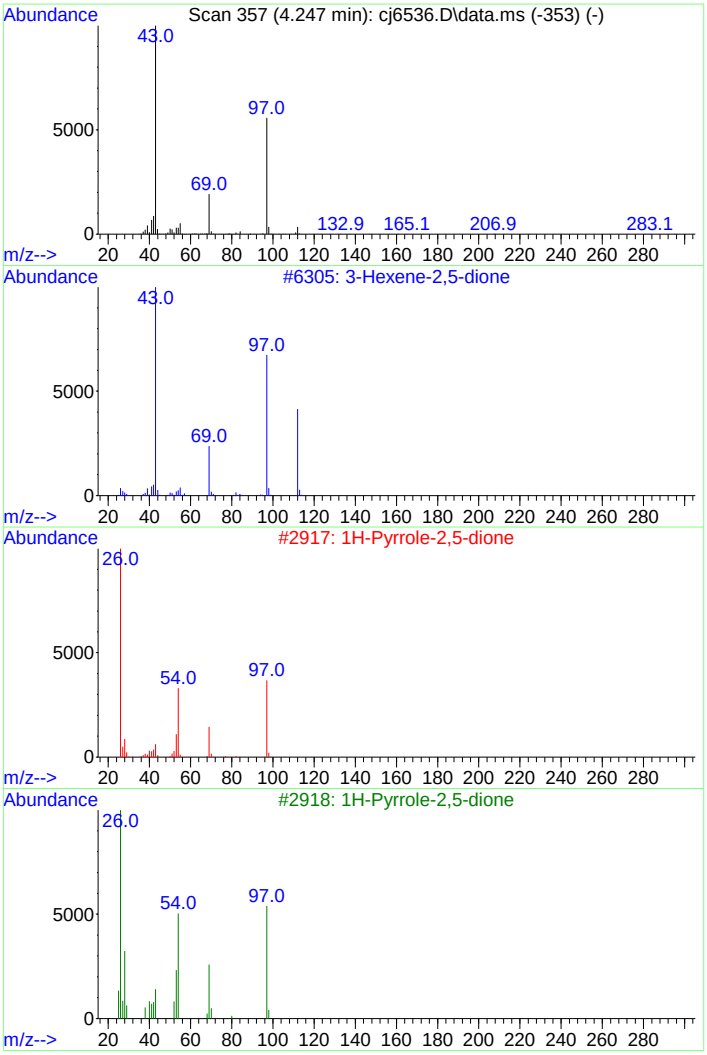
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

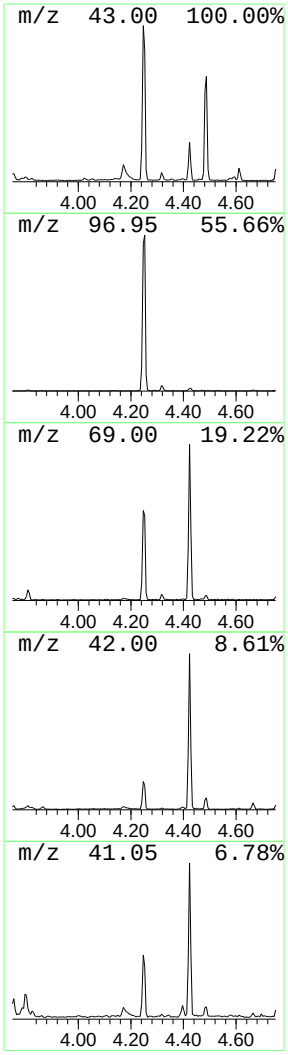
****

Peak Number 1 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.247	10.92 ppm	588184	1,4-Dichlorobenzene-d4a	4.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexene-2,5-dione	112	C6H8O2	004436-75-3	56
2	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	53
3	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	28
4	2,4-Dimethyl-1,5-diazabicyclo[3....	112	C6H12N2	100463-01-2	28
5	5-Hexen-2-one	98	C6H10O	000109-49-9	14





Library Search Compound Report

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Data File : cj6536.D
Acq On : 09 May 2024 11:38 pm
Operator : rocquans
Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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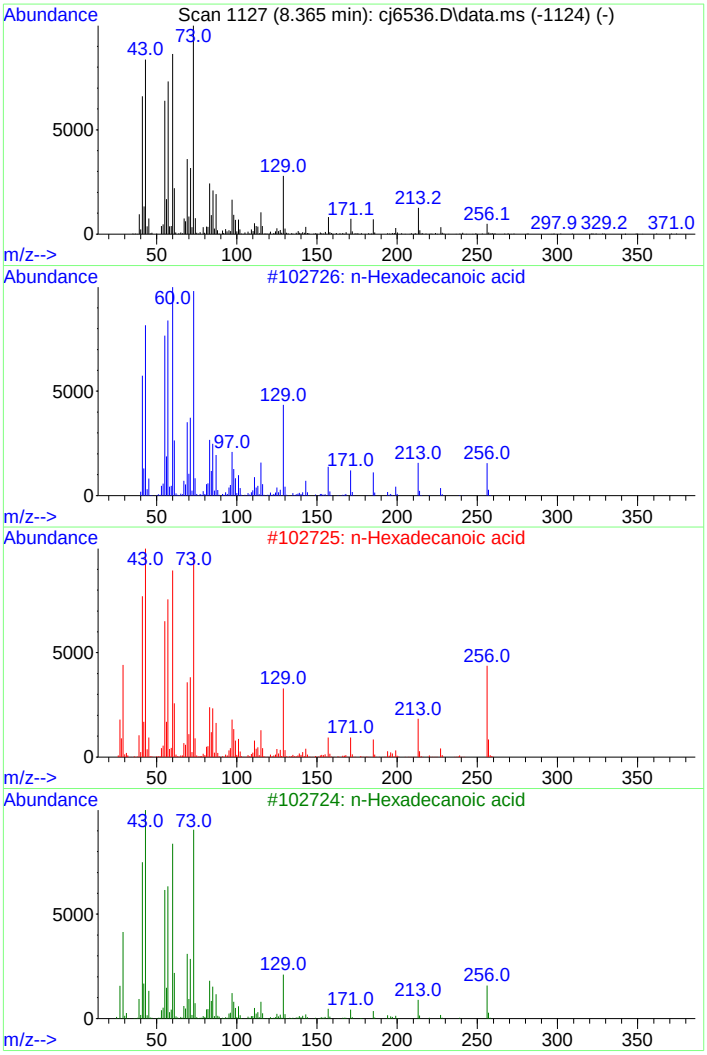
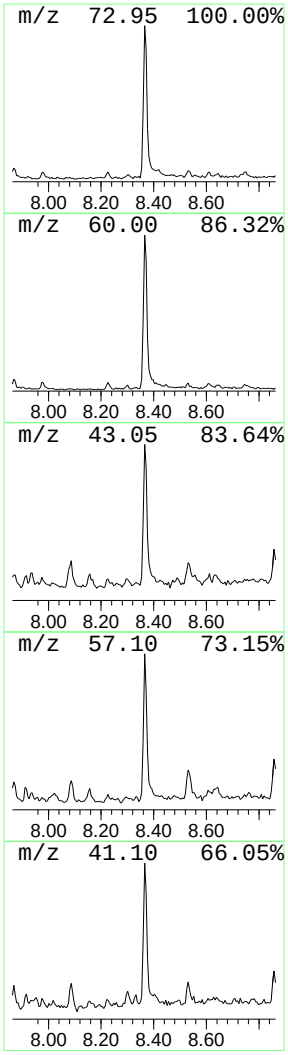
Peak Number 2 n-Hexadecanoic acid Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.365	4.46 ppm	347926	Phenanthrene-d10b	7.868

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	90
5	Octadecanoic acid	284	C18H36O2	000057-11-4	87





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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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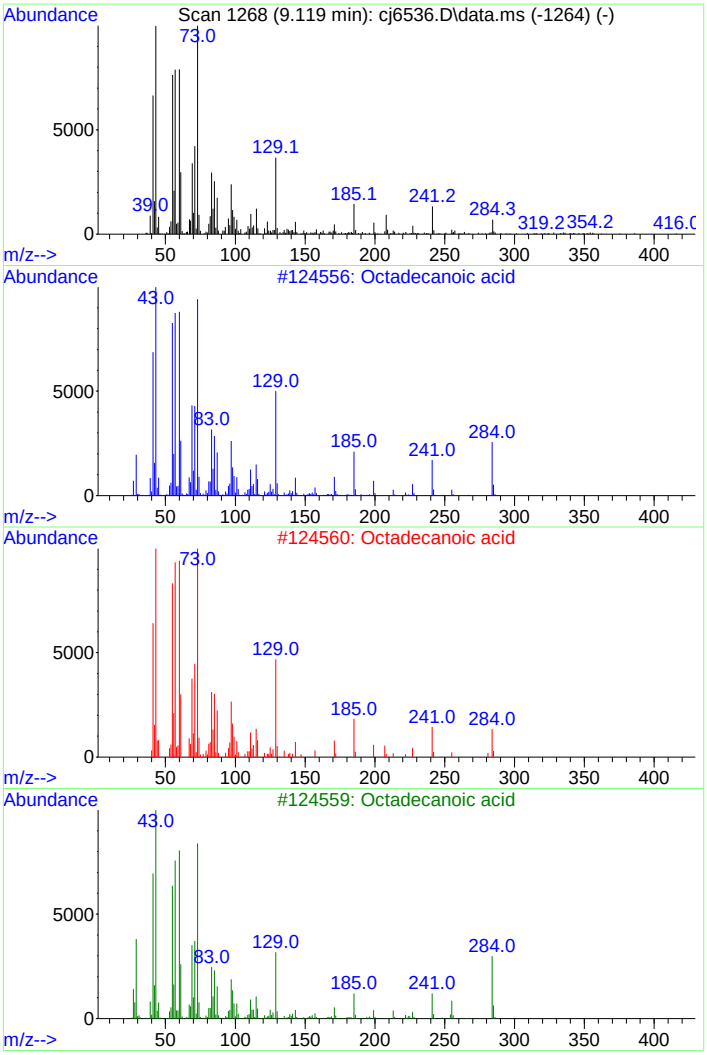
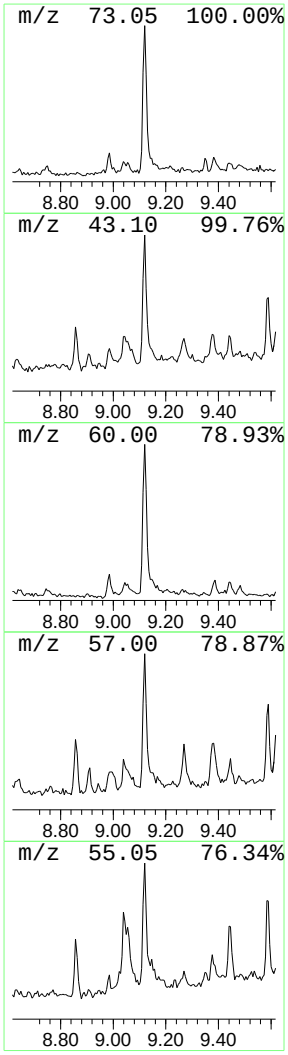
Peak Number 3 Octadecanoic acid Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.119	4.45 ppm	315656	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Octadecanoic acid	284	C18H36O2	000057-11-4	99
3	Octadecanoic acid	284	C18H36O2	000057-11-4	95
4	Octadecanoic acid	284	C18H36O2	000057-11-4	94
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	86





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ALS Vial : 27 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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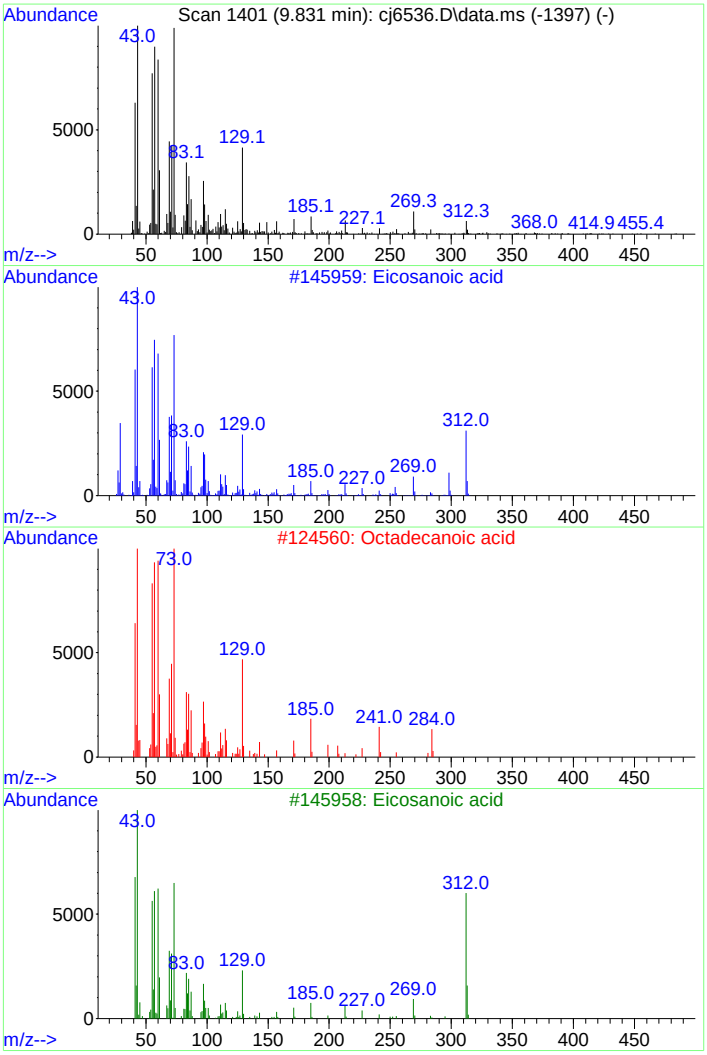
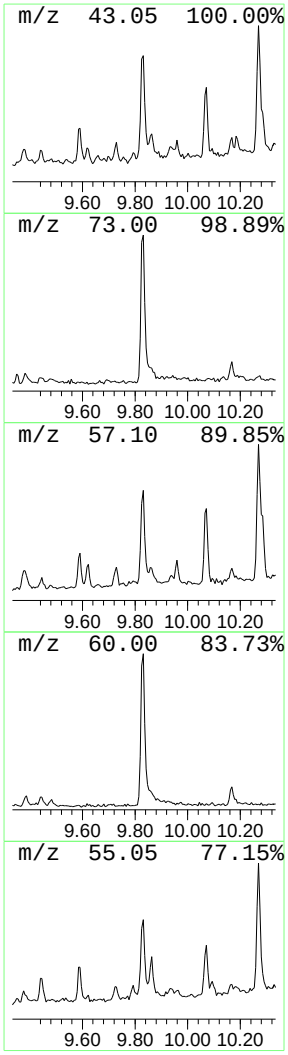
Peak Number 4 Unknown acid Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.831	5.86 ppm	415594	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosanoic acid	312	C20H40O2	000506-30-9	94
2	Octadecanoic acid	284	C18H36O2	000057-11-4	91
3	Eicosanoic acid	312	C20H40O2	000506-30-9	91
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	78
5	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	72





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Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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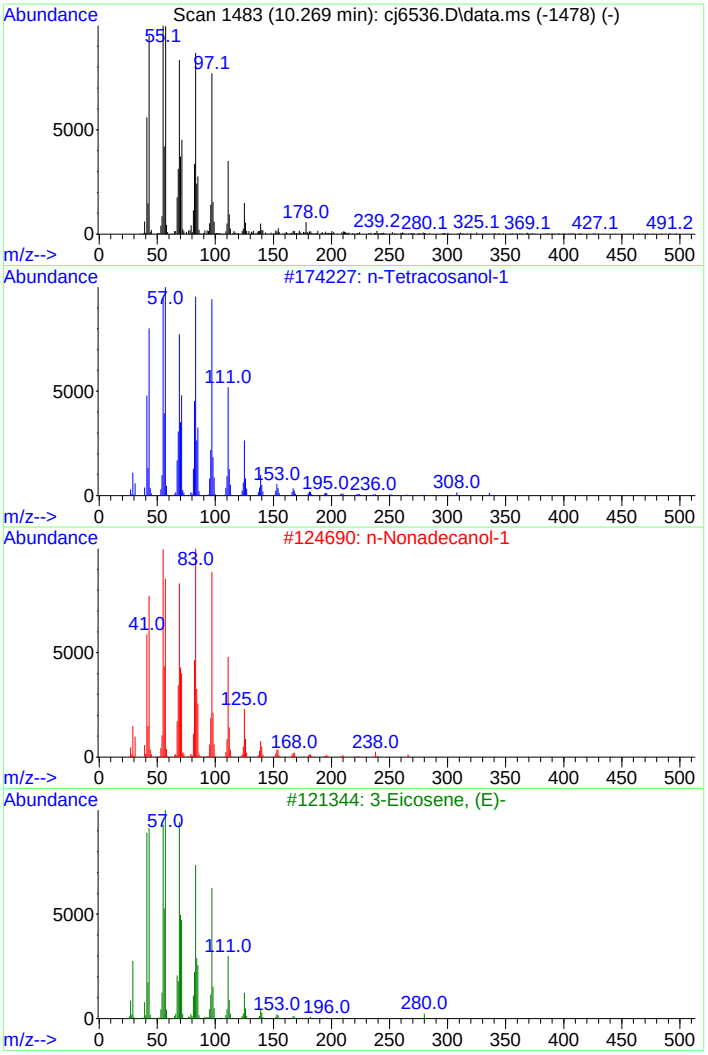
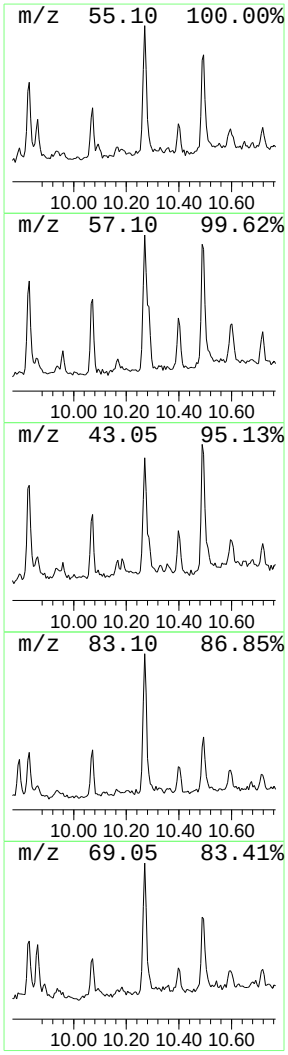
Peak Number 5 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.269	8.18 ppm	579950	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
2	n-Nonadecanol-1	284	C19H40O	001454-84-8	91
3	3-Eicosene, (E)-	280	C20H40	074685-33-9	91
4	Behenic alcohol	326	C22H46O	000661-19-8	91
5	1-Heneicosanol	312	C21H44O	015594-90-8	91





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ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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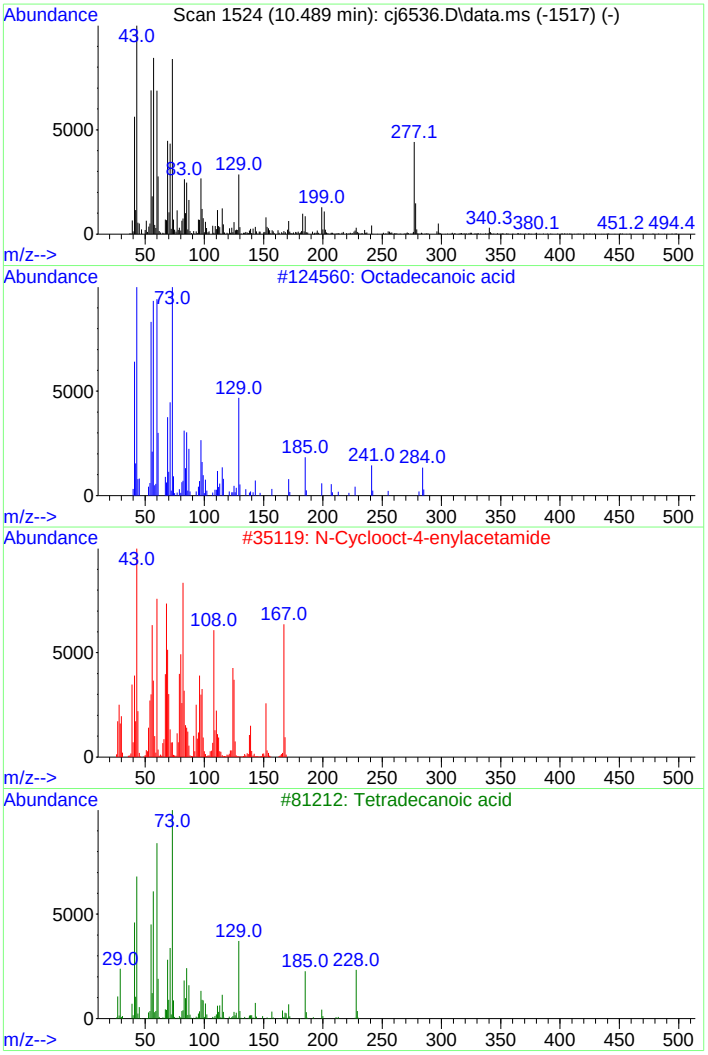
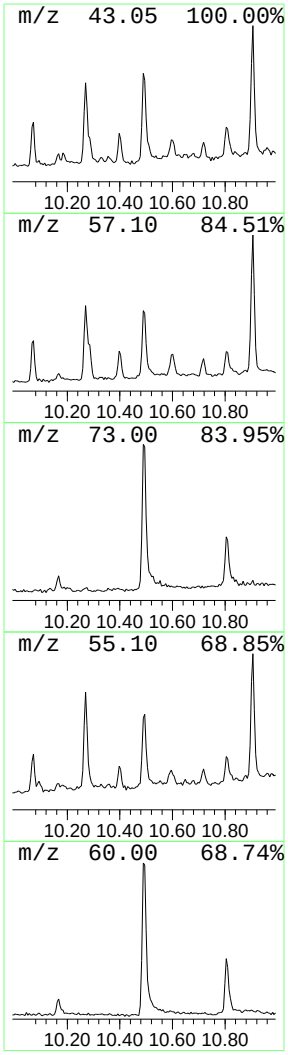
Peak Number 6 Unknown acid Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.489	11.73 ppm	832130	Chrysene-d12a	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	76
2	N-Cyclooct-4-enylacetamide	167	C10H17NO	170952-69-9	53
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	49
4	Tridecanoic acid	214	C13H26O2	000638-53-9	43
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	43





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Acq On : 09 May 2024 11:38 pm
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Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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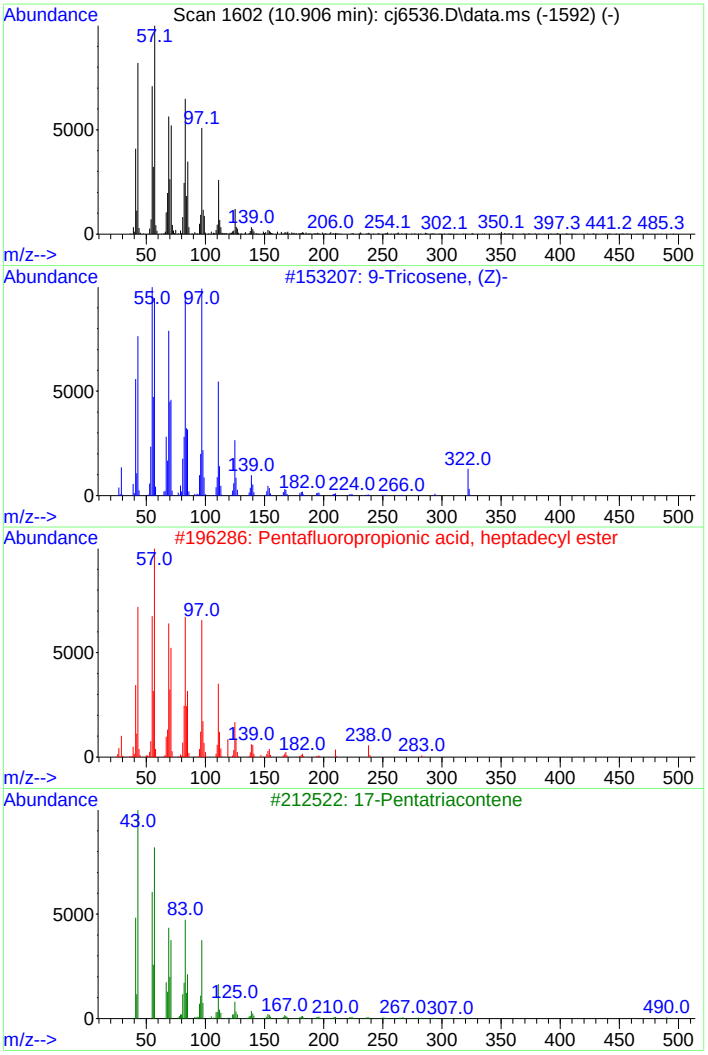
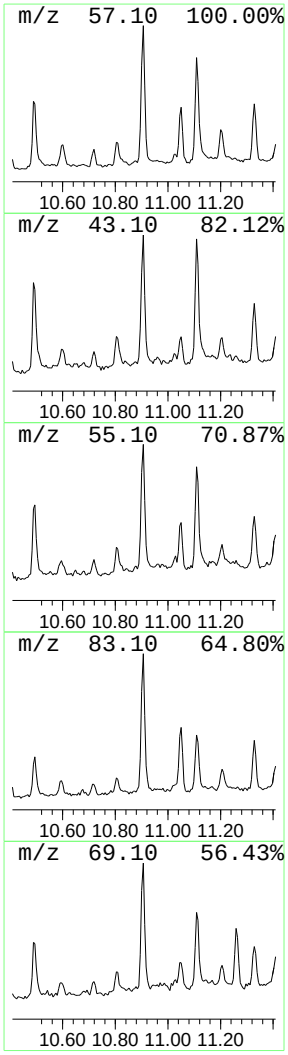
Peak Number 7 Unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.906	12.86 ppm	911957	Chrysene-d12a	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Tricosene, (Z)-	322	C23H46	027519-02-4	93
2	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	1000283-04-2	91
3	17-Pentatriacontene	491	C35H70	006971-40-0	91
4	Nonadecyl trifluoroacetate	380	C21H39F3O2	1000351-76-3	91
5	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	91





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Acq On : 09 May 2024 11:38 pm
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Sample : jd87833-13
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ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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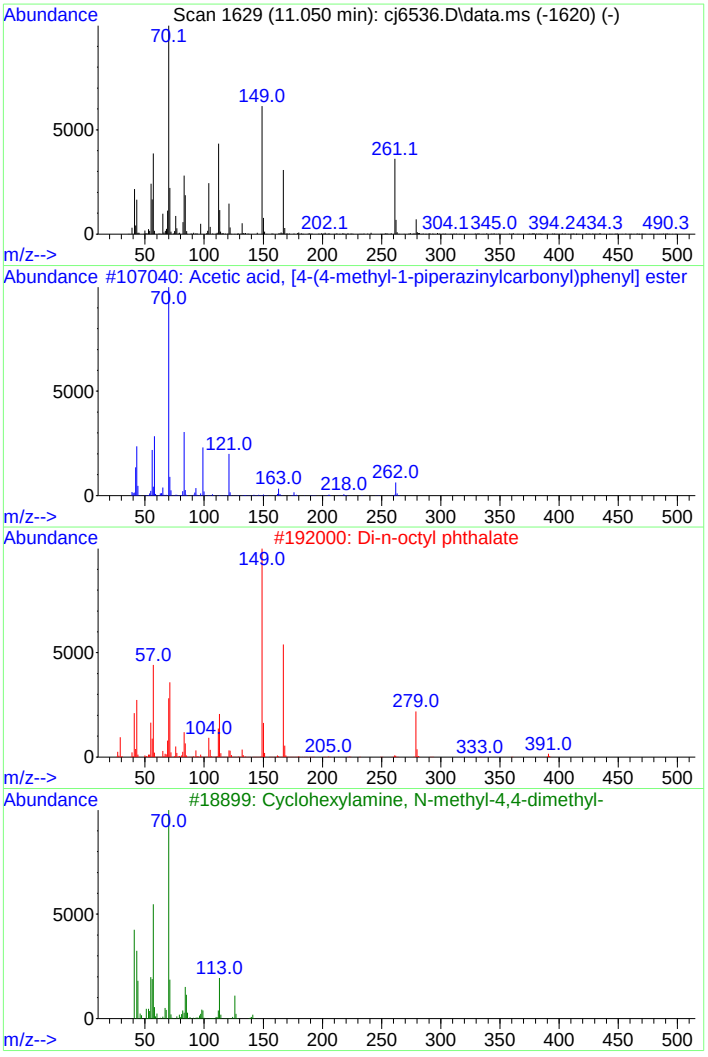
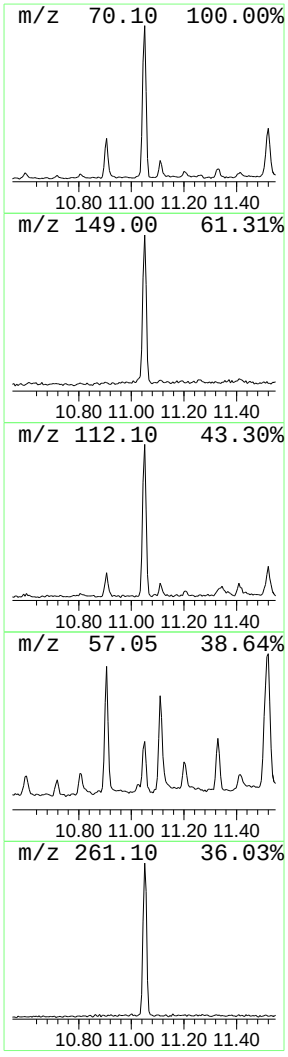
Peak Number 8 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.050	10.57 ppm	768480	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetic acid, [4-(4-methyl-1-pipe...	262	C14H18N2O3	346699-90-9	22
2	Di-n-octyl phthalate	390	C24H38O4	000117-84-0	22
3	Cyclohexylamine, N-methyl-4,4-di...	141	C9H19N	045815-91-6	22
4	1,2-Benzenedicarboxylic acid, di...	390	C24H38O4	027554-26-3	22
5	Cyclohexaneamine, N-but-2-enylid...	167	C10H17NO	068048-01-1	16





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Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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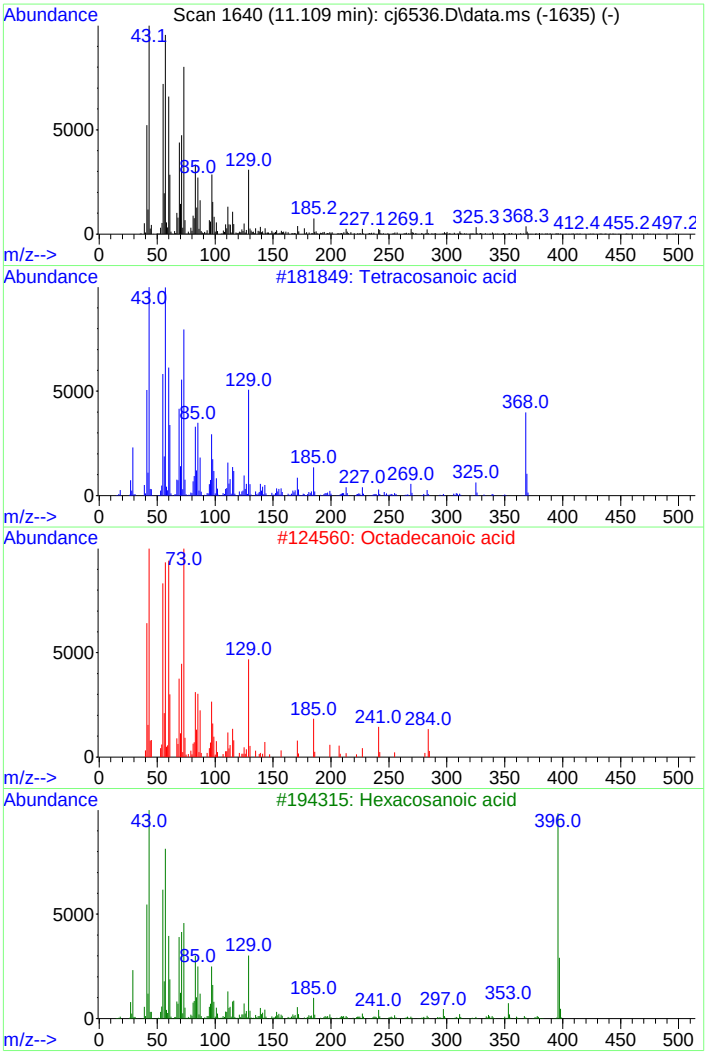
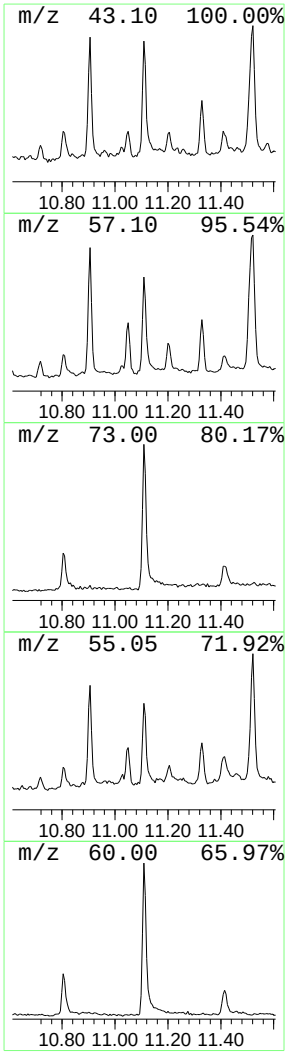
Peak Number 9 Unknown acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.109	12.29 ppm	894117	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosanoic acid	368	C24H48O2	000557-59-5	96
2	Octadecanoic acid	284	C18H36O2	000057-11-4	74
3	Hexacosanoic acid	396	C26H52O2	000506-46-7	64
4	1-Acetoxynonadecane	326	C21H42O2	001577-43-1	47
5	Oxalic acid, allyl octadecyl ester	382	C23H42O4	1000309-24-5	41





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Sample : jd87833-13
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ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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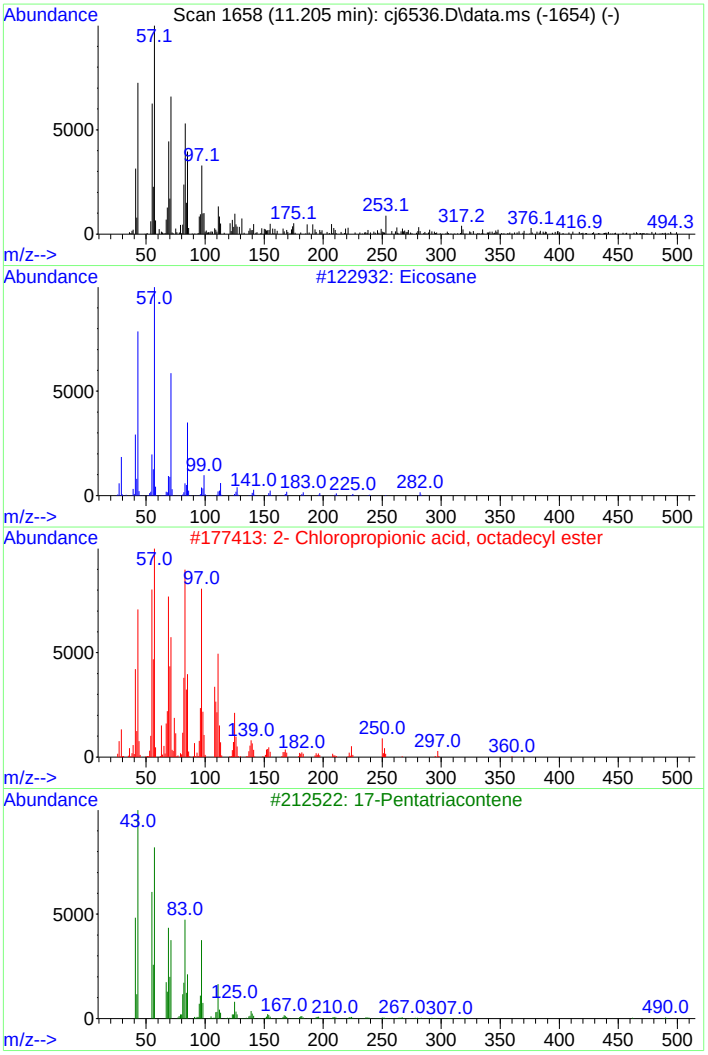
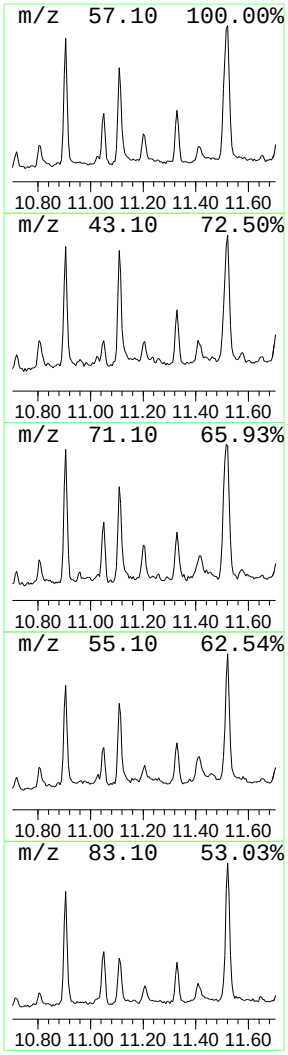
Peak Number 10 Unknown Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.205	4.41 ppm	320661	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	86
2	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	78
3	17-Pentatriacontene	491	C35H70	006971-40-0	59
4	Octadecane, 1-(ethenyloxy)-	296	C20H40O	000930-02-9	53
5	9-Eicosene, (E)-	280	C20H40	074685-29-3	53





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Sample : jd87833-13
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ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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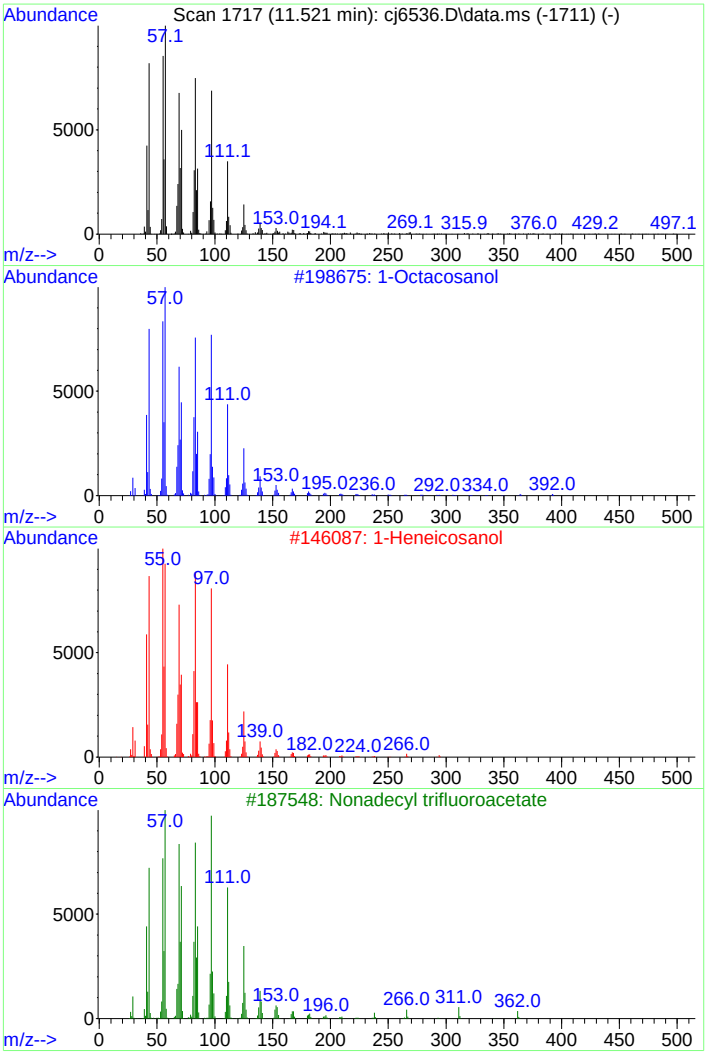
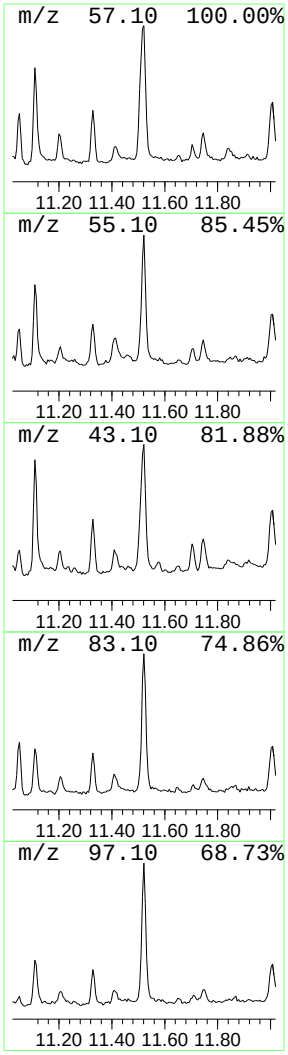
Peak Number 11 Unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.521	15.08 ppm	1096870	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Octacosanol	410	C28H58O	1000351-79-2	94
2	1-Heneicosanol	312	C21H44O	015594-90-8	91
3	Nonadecyl trifluoroacetate	380	C21H39F3O2	1000351-76-3	91
4	Heptafluorobutanoic acid, heptad...	452	C21H35F7O2	1000282-97-3	91
5	1-Docosene	308	C22H44	001599-67-3	91





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ALS Vial : 27 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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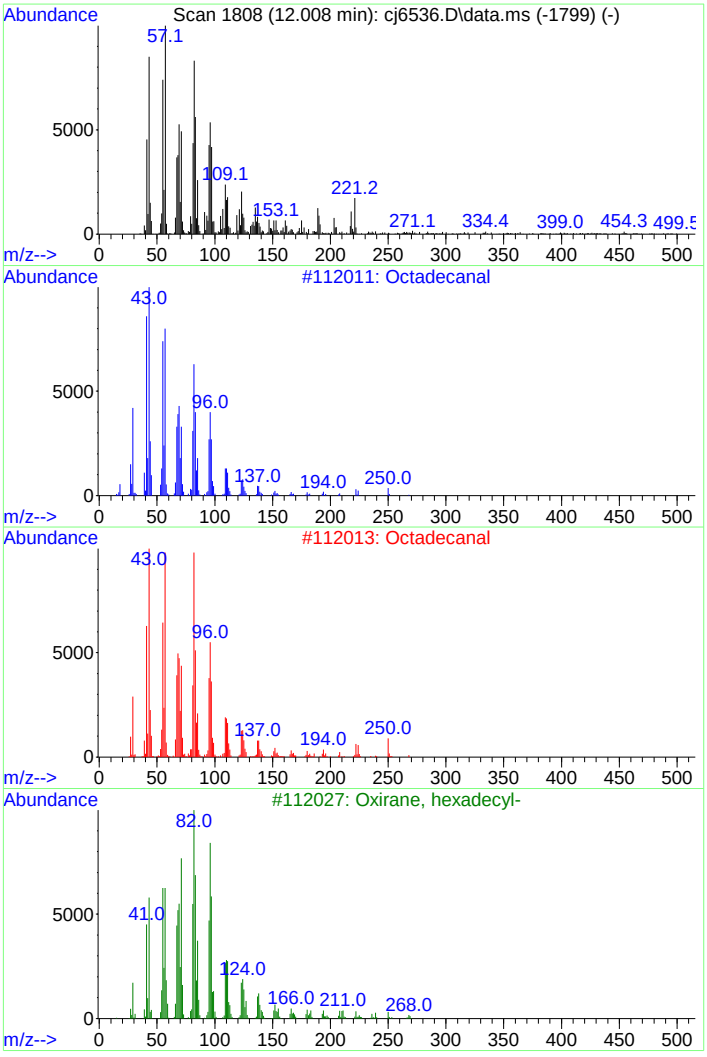
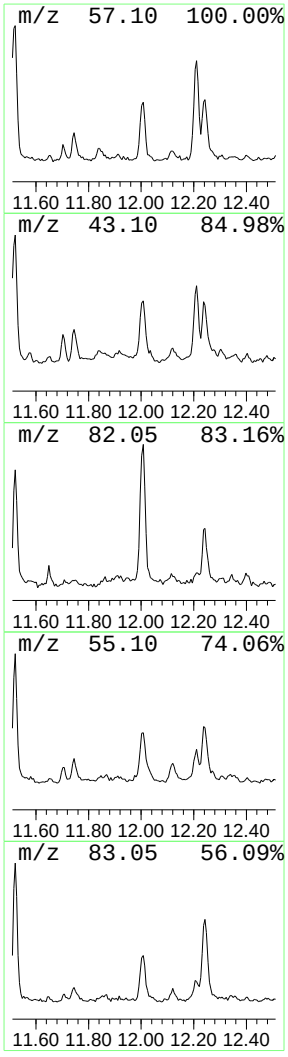
Peak Number 12 Octadecanal Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.008	18.82 ppm	1368530	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanal	268	C18H36O	000638-66-4	93
2	Octadecanal	268	C18H36O	000638-66-4	90
3	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	83
4	Tetradecanal	212	C14H28O	000124-25-4	80
5	1,19-Eicosadiene	278	C20H38	014811-95-1	62





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6536.D
Acq On : 09 May 2024 11:38 pm
Operator : rocquans
Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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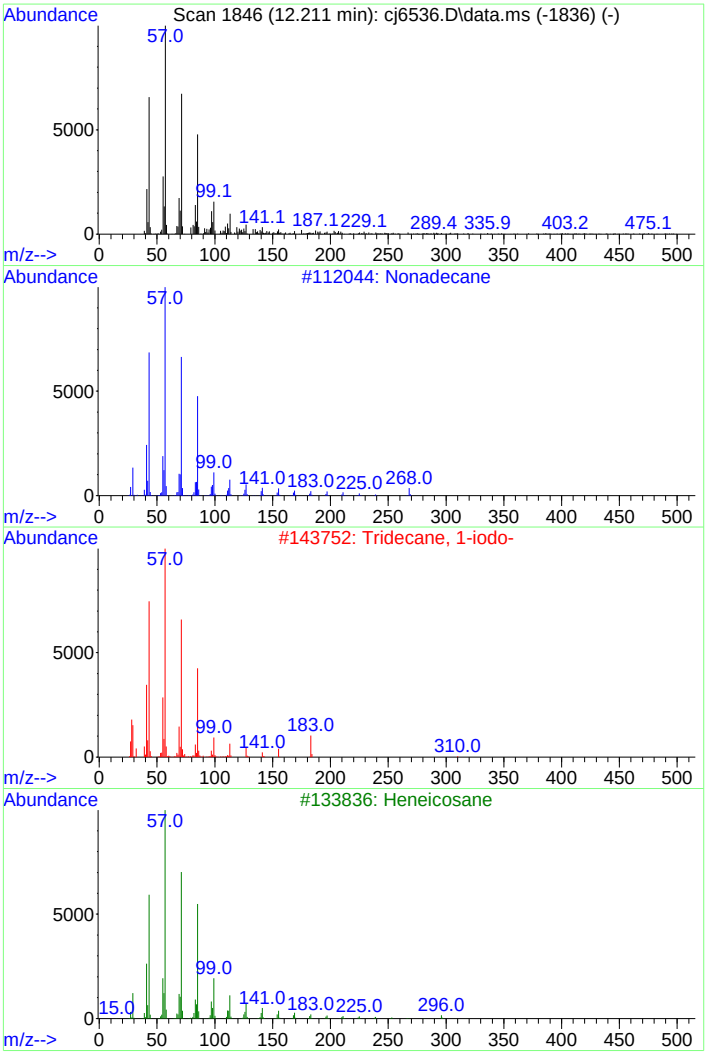
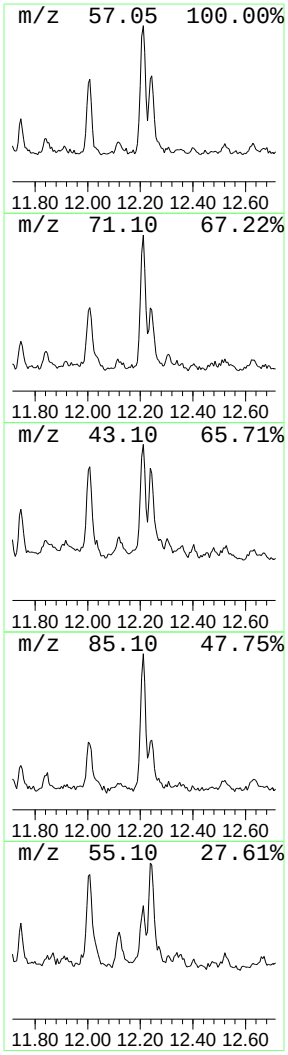
Peak Number 13 Alkane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.211	8.09 ppm	588214	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	93
2	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	91
3	Heneicosane	296	C21H44	000629-94-7	87
4	Dotriacontane	451	C32H66	000544-85-4	87
5	Pentadecane	212	C15H32	000629-62-9	83





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Sample : jd87833-13
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ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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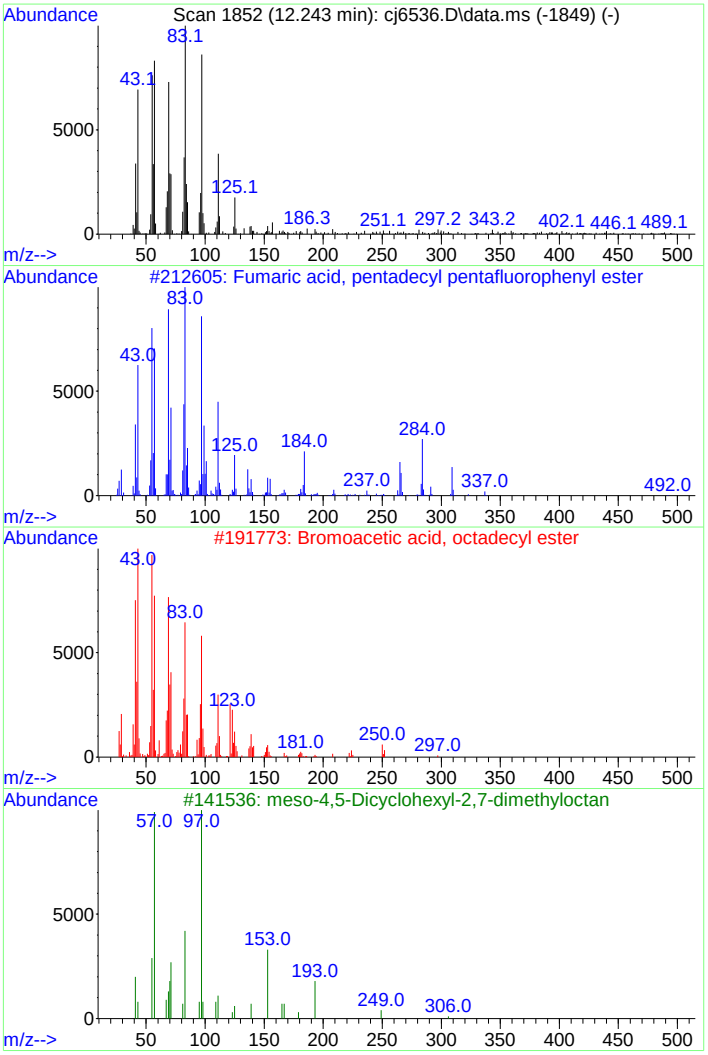
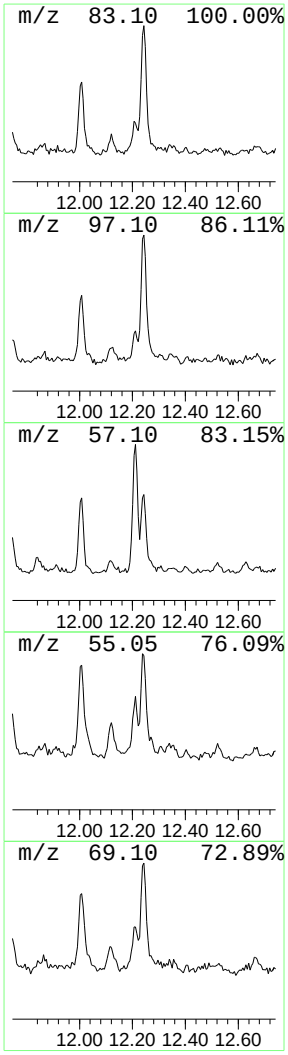
Peak Number 14 Unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.243	4.93 ppm	358676	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fumaric acid, pentadecyl pentafl...	492	C25H33F5O4	1000348-10-7	55
2	Bromoacetic acid, octadecyl ester	390	C20H39BrO2	018992-03-5	46
3	meso-4,5-Dicyclohexyl-2,7-dimeth...	306	C22H42	065149-86-2	43
4	E-2-Octenyl tiglate	210	C13H22O2	084271-97-6	38
5	n-Heptadecanol-1	256	C17H36O	001454-85-9	38





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Acq On : 09 May 2024 11:38 pm
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Sample : jd87833-13
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ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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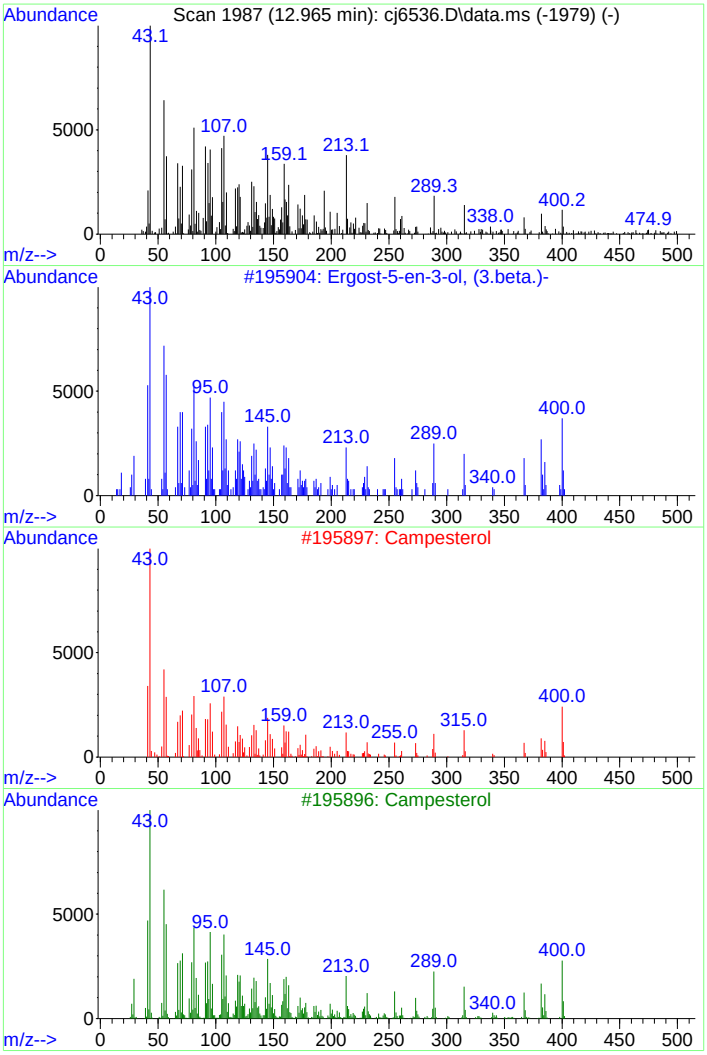
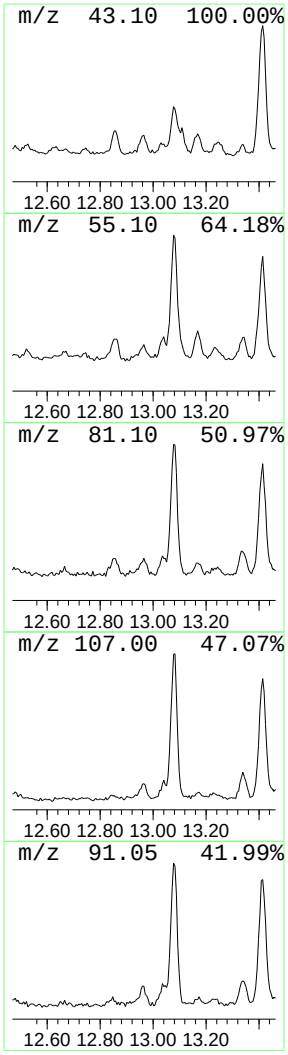
Peak Number 15 Unknown Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.965	4.72 ppm	342977	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	93
2	Campesterol	400	C28H48O	000474-62-4	83
3	Campesterol	400	C28H48O	000474-62-4	78
4	5-Cholestene-3-ol, 24-methyl-	400	C28H48O	1000214-17-4	70
5	Pregnan-20-one, 3-(acetyloxy)-5,...	404	C24H36O5	002857-83-2	64





Library Search Compound Report

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Acq On : 09 May 2024 11:38 pm
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Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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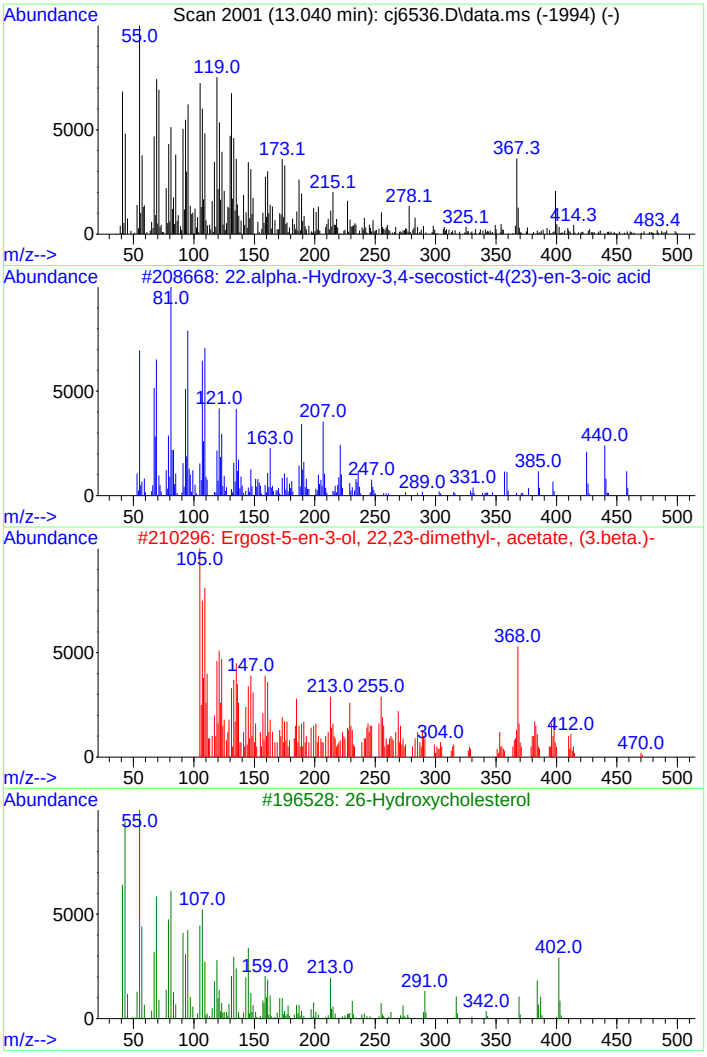
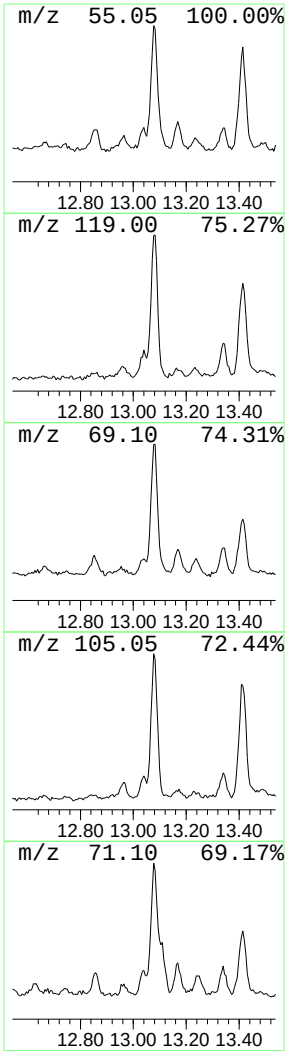
Peak Number 16 Unknown Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.040	6.39 ppm	465059	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	22.alpha.-Hydroxy-3,4-secostict-...	458	C30H50O3	069773-95-1	12
2	Ergost-5-en-3-ol, 22,23-dimethyl...	470	C32H54O2	055724-21-5	12
3	26-Hydroxycholesterol	402	C27H46O2	013095-61-9	10
4	Ergost-22-en-3-ol, (3.beta.,5.al...	400	C28H48O	036422-25-0	10
5	Ergost-25-ene-3,5,6-triol, (3.be...	432	C28H48O3	056143-28-3	9





Library Search Compound Report

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Acq On : 09 May 2024 11:38 pm
Operator : rocquans
Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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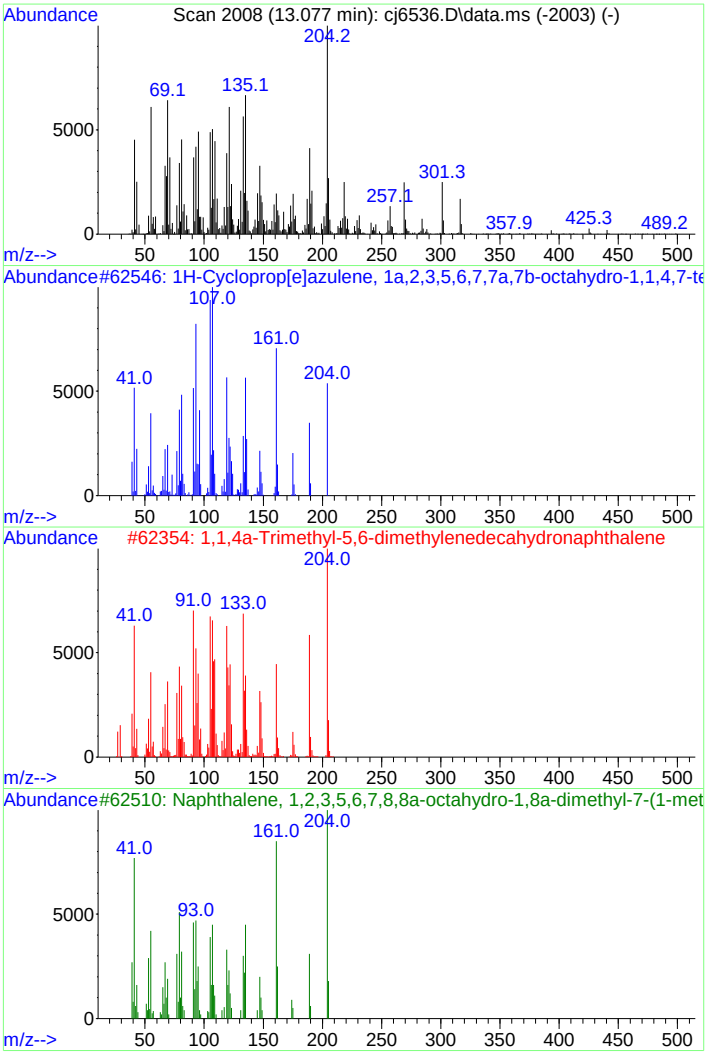
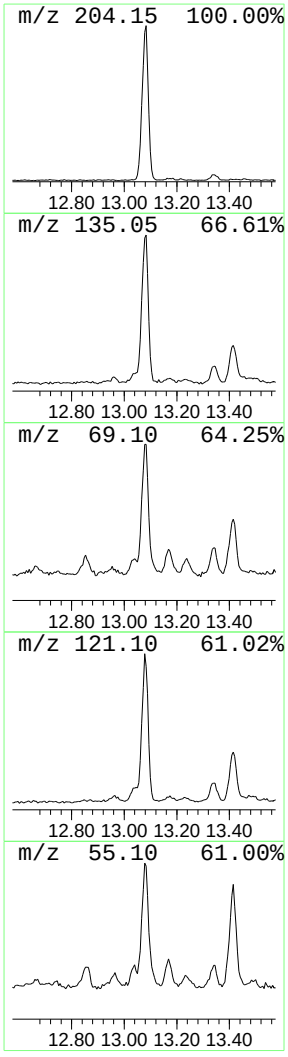
Peak Number 17 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.077	52.18 ppm	3794900	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cycloprop[e]azulene, 1a,2,3,5...	204	C15H24	021747-46-6	70
2	1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	53
3	Naphthalene, 1,2,3,5,6,7,8,8a-oc...	204	C15H24	004630-07-3	49
4	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1000140-07-7	46
5	2H-Cyclopentacyclooctene, 4,5,6,...	204	C15H24	1000221-85-8	43





Library Search Compound Report

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Acq On : 09 May 2024 11:38 pm
Operator : rocquans
Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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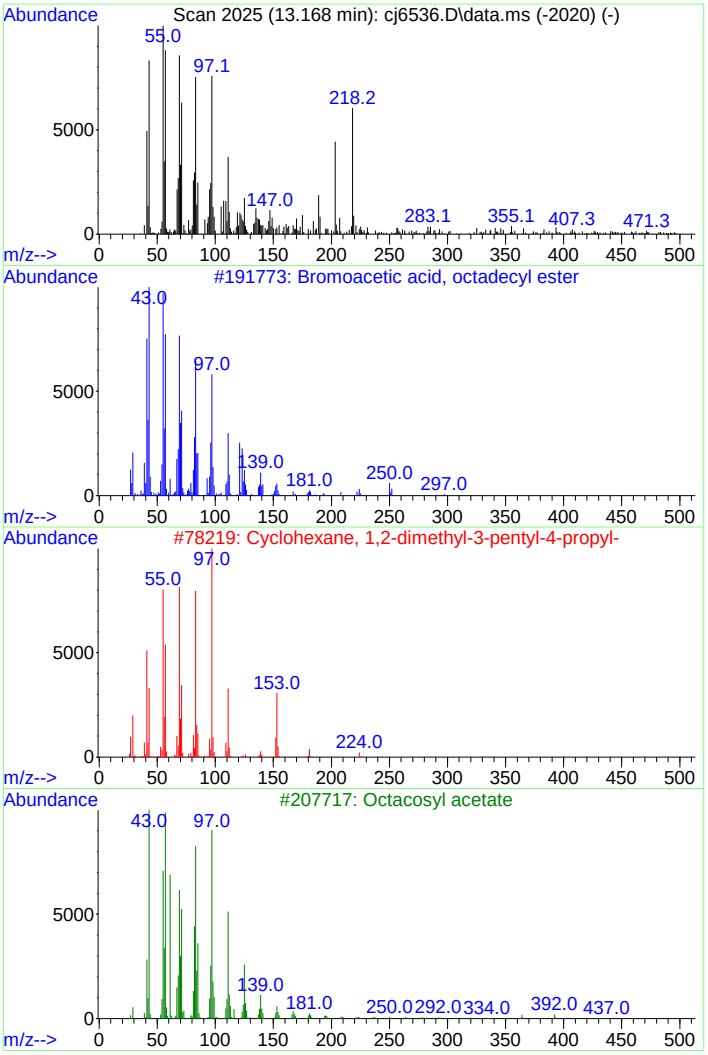
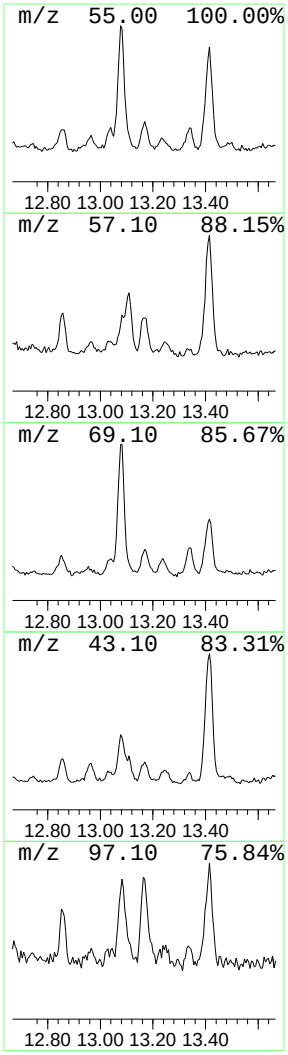
Peak Number 18 Unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.168	5.44 ppm	395764	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bromoacetic acid, octadecyl ester	390	C20H39BrO2	018992-03-5	76
2	Cyclohexane, 1,2-dimethyl-3-pent...	224	C16H32	062376-17-4	58
3	Octacosyl acetate	452	C30H60O2	018206-97-8	50
4	1,7-Dimethyl-4-(1-methylethyl)cy...	210	C15H30	000645-10-3	49
5	Cyclopentane, 1,1,3-trimethyl-	112	C8H16	004516-69-2	49





Library Search Compound Report

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Acq On : 09 May 2024 11:38 pm
Operator : rocquans
Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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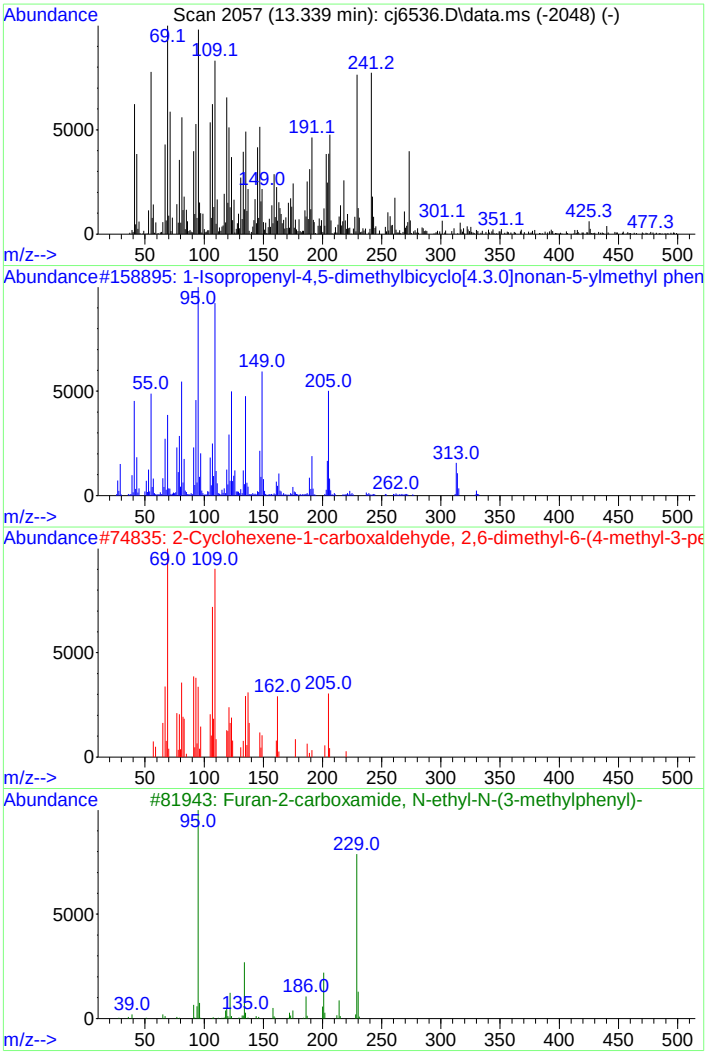
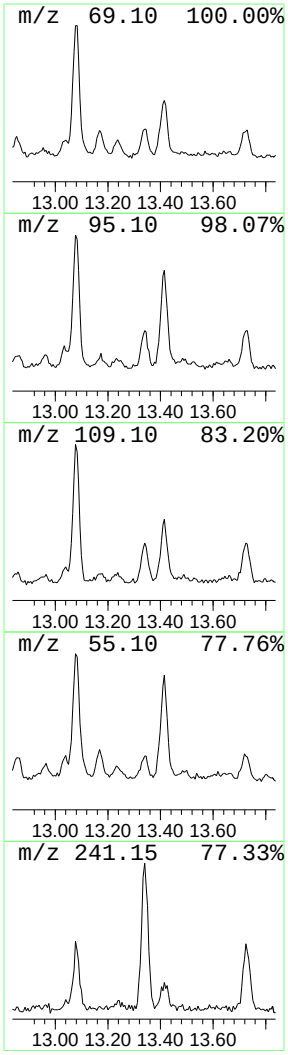
Peak Number 19 Unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.339	10.40 ppm	756544	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenyl-4,5-dimethylbicycl...	330	C21H30OS	1000195-85-4	30
2	2-Cyclohexene-1-carboxaldehyde, ...	220	C15H24O	056772-07-7	25
3	Furan-2-carboxamide, N-ethyl-N-(...	229	C14H15NO2	1000308-20-3	25
4	1-Oxaspiro[2.5]octane, 5,5-dimet...	206	C14H22O	1000195-92-1	16
5	6.beta.Bicyclo[4.3.0]nonane, 5.b...	332	C15H25I	1000195-85-9	16





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Acq On : 09 May 2024 11:38 pm
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Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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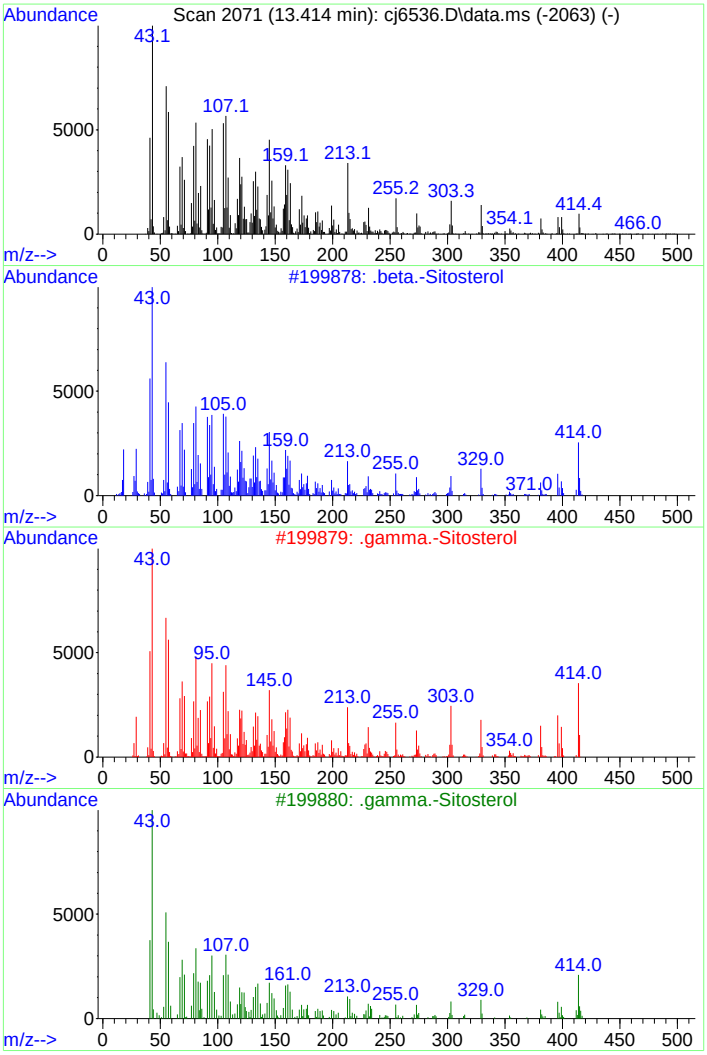
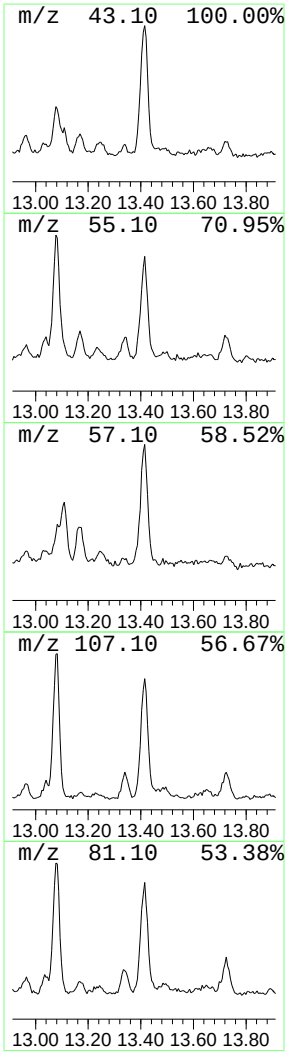
Peak Number 20 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.414	38.79 ppm	2821460	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
2	.gamma.-Sitosterol	414	C29H50O	000083-47-6	92
3	.gamma.-Sitosterol	414	C29H50O	000083-47-6	78
4	.beta.-Sitosterol	414	C29H50O	000083-46-5	70
5	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	58





Library Search Compound Report

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Data File : cj6536.D
Acq On : 09 May 2024 11:38 pm
Operator : rocquans
Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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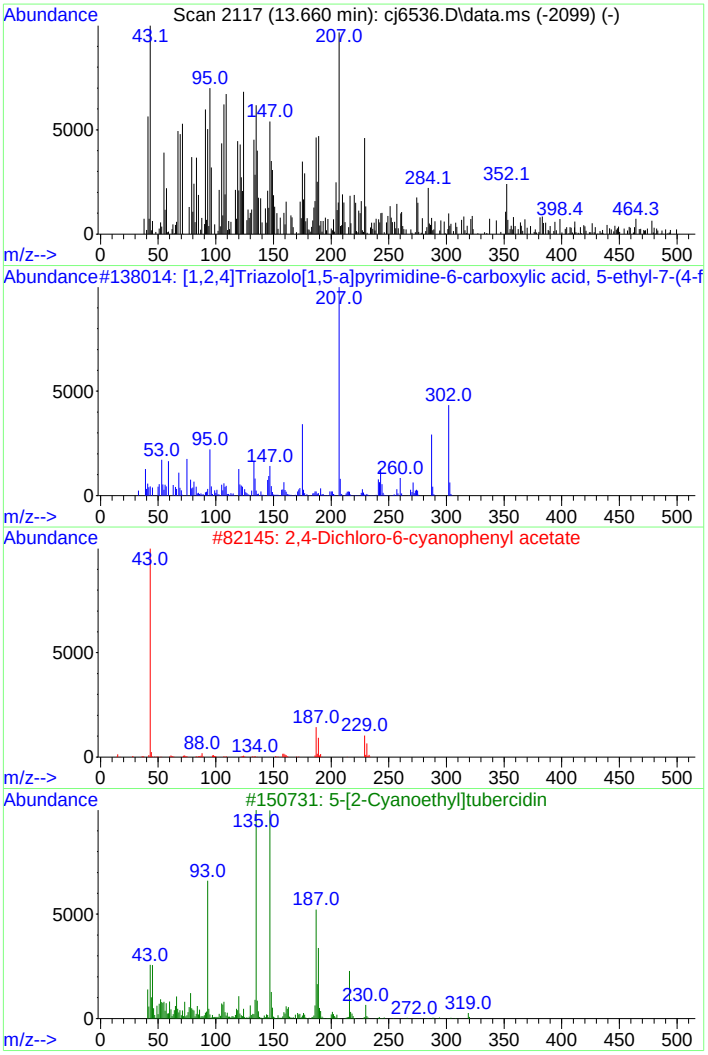
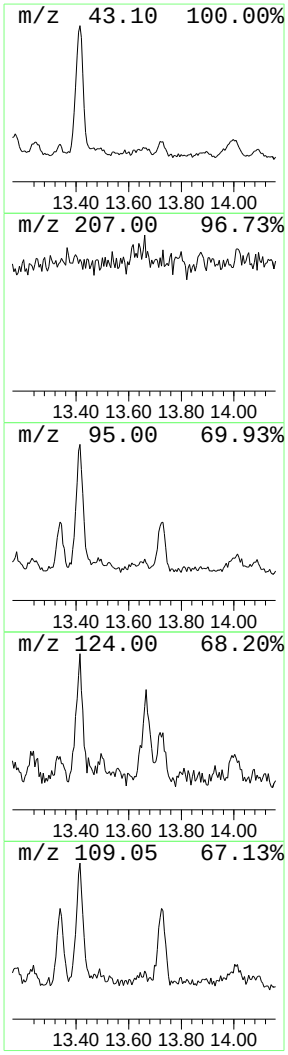
Peak Number 21 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.660	4.80 ppm	349100	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,2,4]Triazolo[1,5-a]pyrimidine...	302	C15H15FN4O2	1000317-15-2	15
2	2,4-Dichloro-6-cyanophenyl acetate	229	C9H5Cl2NO2	1000239-88-7	14
3	5-[2-Cyanoethyl]tubercidin	319	C14H17N5O4	076319-86-3	14
4	Isophthalic acid, allyl undecyl ...	360	C22H32O4	1000345-65-2	12
5	2-Methyl-7-phenylindole	207	C15H13N	001140-08-5	11





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Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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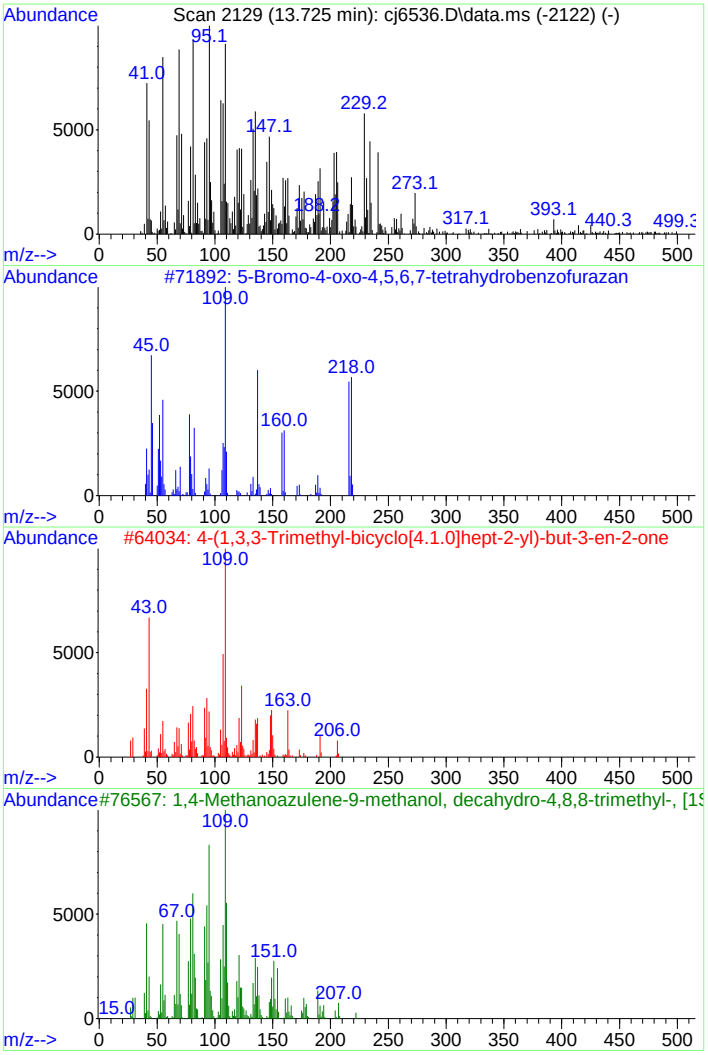
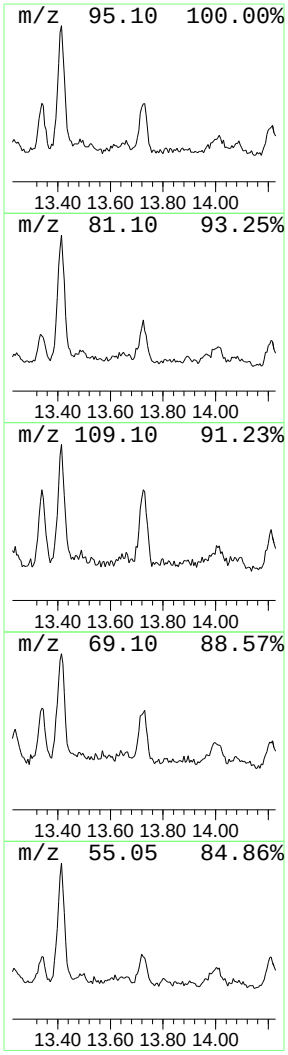
Peak Number 22 Unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.725	11.87 ppm	863308	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Bromo-4-oxo-4,5,6,7-tetrahydro...	216	C6H5BrN2O2	300574-36-1	90
2	4-(1,3,3-Trimethyl-bicyclo[4.1.0...	206	C14H22O	077143-31-8	53
3	1,4-Methanoazulene-9-methanol, d...	222	C15H26O	001139-17-9	51
4	Alloaromadendrene oxide-(1)	220	C15H24O	1000156-12-8	49
5	Imidazole, 4-methyl-5-[3,3,3-tri...	234	C10H13F3N2O	1000129-15-8	46





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Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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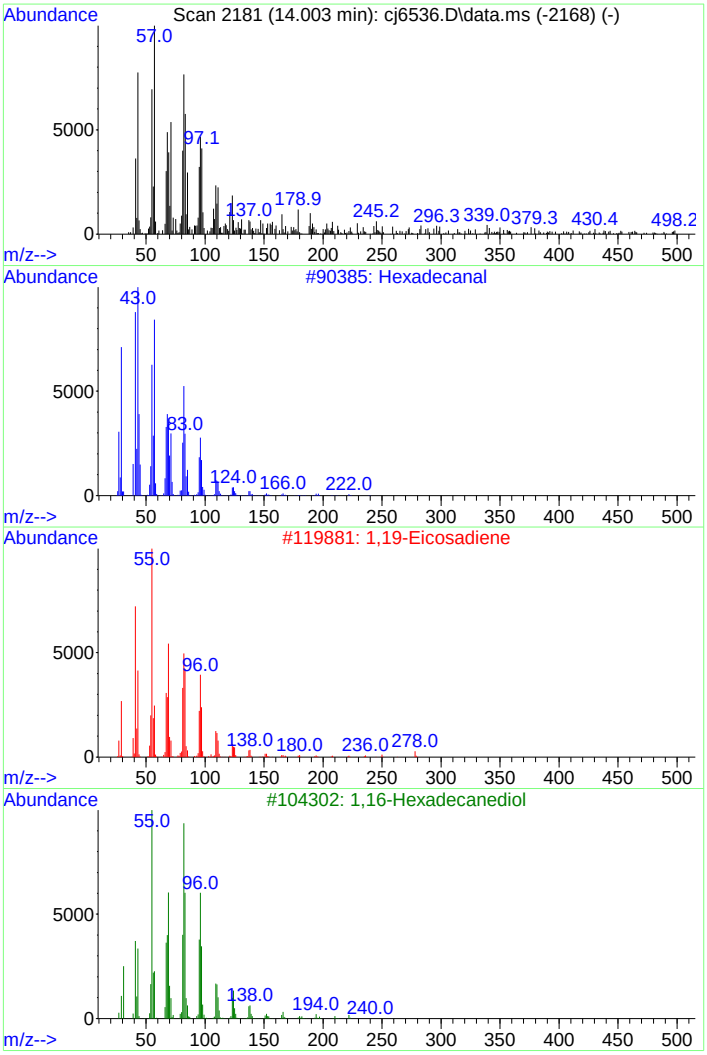
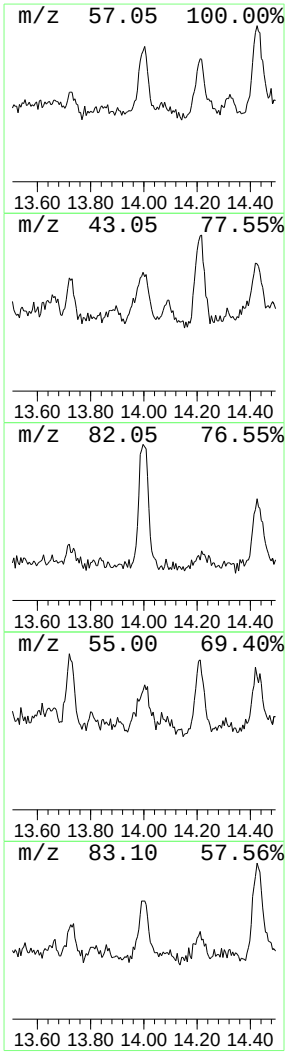
Peak Number 23 Unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.003	8.27 ppm	601109	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanal	240	C16H32O	000629-80-1	74
2	1,19-Eicosadiene	278	C20H38	014811-95-1	64
3	1,16-Hexadecanediol	258	C16H34O2	007735-42-4	52
4	1,13-Tetradecadiene	194	C14H26	021964-49-8	49
5	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	49





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6536.D
Acq On : 09 May 2024 11:38 pm
Operator : rocquans
Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

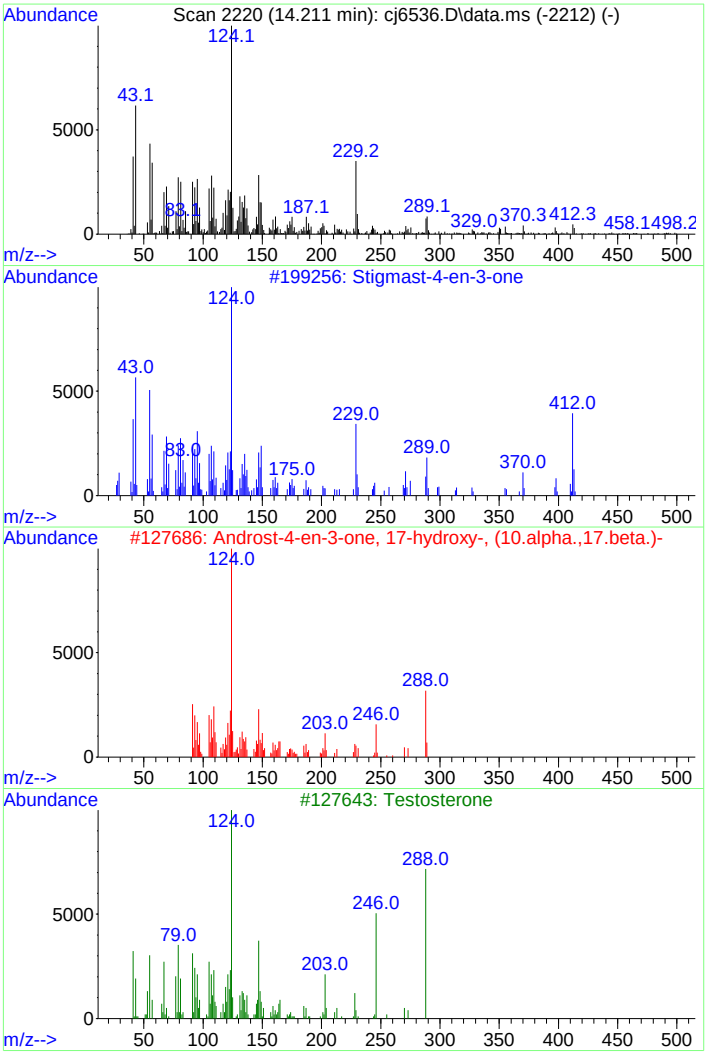
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

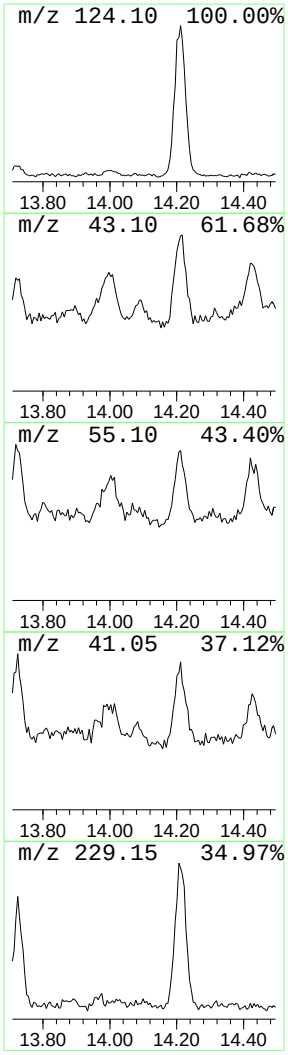
****

Peak Number 24 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.211	11.72 ppm	852244	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	94
2	Androst-4-en-3-one, 17-hydroxy-,...	288	C19H28O2	000604-39-7	64
3	Testosterone	288	C19H28O2	000058-22-0	58
4	2,3-Diaminophenol	124	C6H8N2O	059649-56-8	46
5	3-Cyclohexene-1-carboxaldehyde, ...	124	C8H12O	007560-64-7	46





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6536.D
Acq On : 09 May 2024 11:38 pm
Operator : rocquans
Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

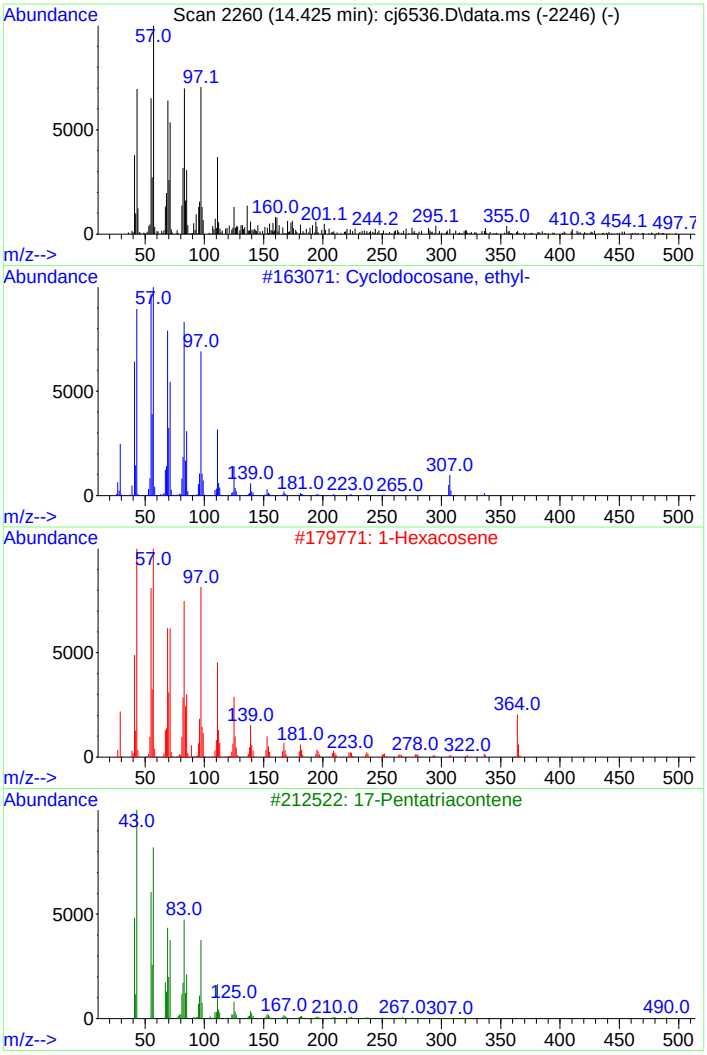
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

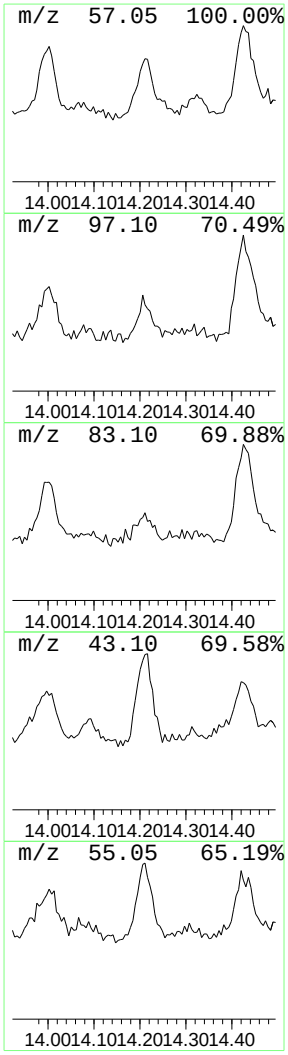
****

Peak Number 25 Unknown Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.425	7.59 ppm	552136	Perylene-d12	11.714

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclodocosane, ethyl-	336	C24H48	1000151-22-6	94
2	1-Hexacosene	364	C26H52	018835-33-1	93
3	17-Pentatriacontene	491	C35H70	006971-40-0	87
4	Nonadecyl heptafluorobutyrate	480	C23H39F7O2	1000351-83-9	87
5	1-Heptacosanol	396	C27H56O	002004-39-9	81





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6536.D
Acq On : 09 May 2024 11:38 pm
Operator : rocquans
Sample : jd87833-13
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.247	10.9	ppm	588184	2	4.664	2155130	40.0
n-Hexadecanoic ...	8.365	4.5	ppm	347926	8	7.868	3119600	40.0
Octadecanoic acid	9.119	4.5	ppm	315656	9	10.366	2837610	40.0
Unknown acid	9.831	5.9	ppm	415594	9	10.366	2837610	40.0
Unknown	10.269	8.2	ppm	579950	9	10.366	2837610	40.0
Unknown acid	10.489	11.7	ppm	832130	10	10.366	2837610	40.0
Unknown	10.906	12.9	ppm	911957	10	10.366	2837610	40.0
Unknown	11.050	10.6	ppm	768480	11	11.714	2909140	40.0
Unknown acid	11.109	12.3	ppm	894117	11	11.714	2909140	40.0
Unknown	11.205	4.4	ppm	320661	11	11.714	2909140	40.0
Unknown	11.521	15.1	ppm	1096870	11	11.714	2909140	40.0
Octadecanal	12.008	18.8	ppm	1368530	11	11.714	2909140	40.0
Alkane	12.211	8.1	ppm	588214	11	11.714	2909140	40.0
Unknown	12.243	4.9	ppm	358676	11	11.714	2909140	40.0
Unknown	12.965	4.7	ppm	342977	11	11.714	2909140	40.0
Unknown	13.040	6.4	ppm	465059	11	11.714	2909140	40.0
Unknown	13.077	52.2	ppm	3794900	11	11.714	2909140	40.0
Unknown	13.168	5.4	ppm	395764	11	11.714	2909140	40.0
Unknown	13.339	10.4	ppm	756544	11	11.714	2909140	40.0
Unknown	13.414	38.8	ppm	2821460	11	11.714	2909140	40.0
Unknown	13.660	4.8	ppm	349100	11	11.714	2909140	40.0
Unknown	13.725	11.9	ppm	863308	11	11.714	2909140	40.0
Unknown	14.003	8.3	ppm	601109	11	11.714	2909140	40.0
Unknown	14.211	11.7	ppm	852244	11	11.714	2909140	40.0
Unknown	14.425	7.6	ppm	552136	11	11.714	2909140	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 05/13/24 01:29

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14 Inst : GCMSCJ
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: May 10 20:13:49 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

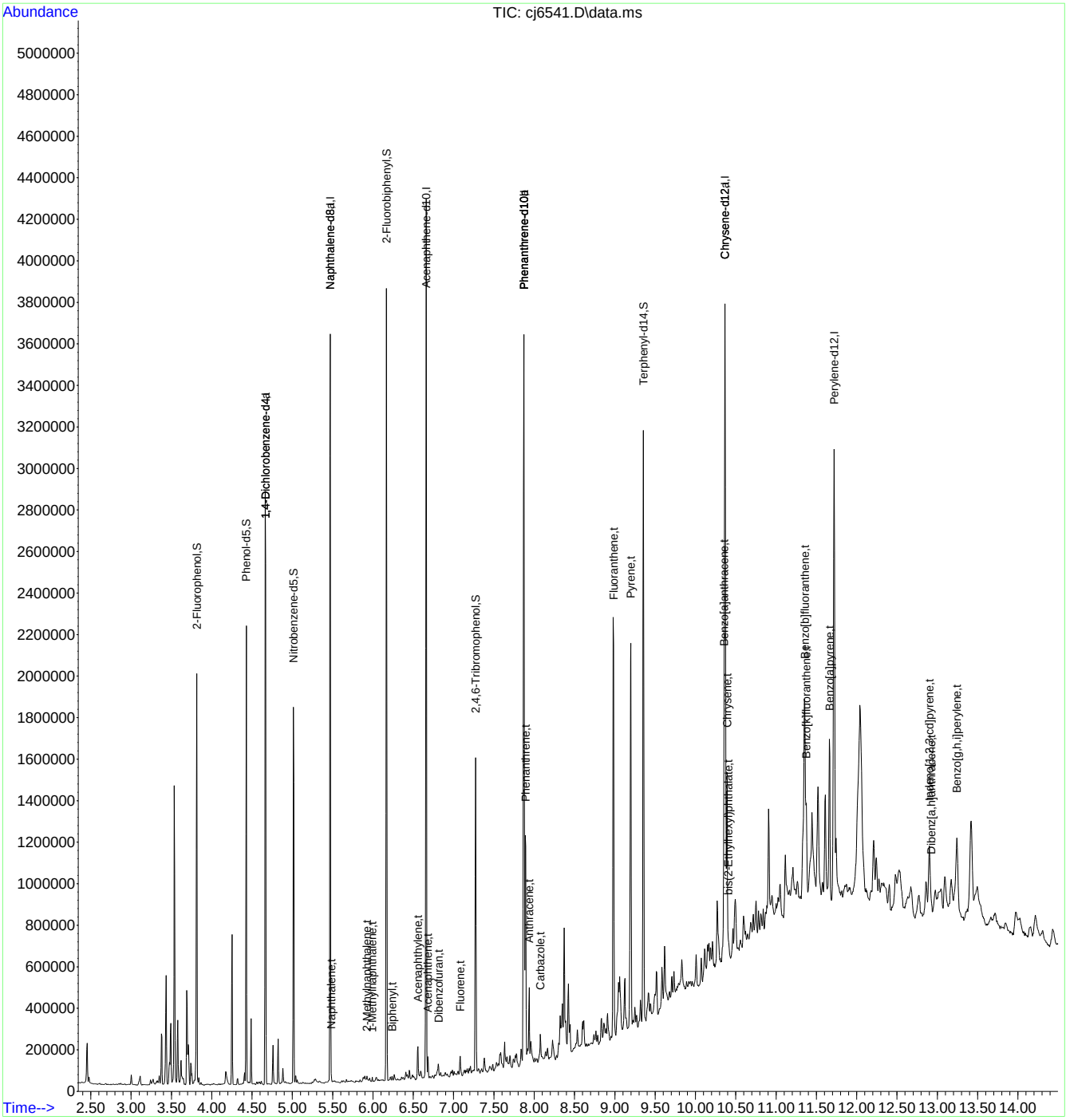
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.669	152	321346	40.00	ppm	0.00
24) Naphthalene-d8	5.471	136	1128839	40.00	ppm	0.00
46) Acenaphthene-d10	6.659	164	623856	40.00	ppm	0.00
69) Phenanthrene-d10	7.873	188	1083567	40.00	ppm	0.00
84) Chrysene-d12	10.366	240	777218	40.00	ppm	0.00
93) Perylene-d12	11.719	264	804995	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.669	152	321346	40.00	ppm	0.00
105) Phenanthrene-d10a	7.873	188	1083567	40.00	ppm	0.00
107) Naphthalene-d8a	5.471	136	1128839	40.00	ppm	0.00
109) Phenanthrene-d10b	7.873	188	1083567	40.00	ppm	0.00
112) Chrysene-d12a	10.366	240	777218	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.813	112	326911	35.39	ppm	0.02
Spiked Amount 50.000			Recovery = 70.78%			
8) Phenol-d5	4.429	99	440333	36.96	ppm	0.01
Spiked Amount 50.000			Recovery = 73.92%			
25) Nitrobenzene-d5	5.012	82	411936	35.64	ppm	0.00
Spiked Amount 50.000			Recovery = 71.28%			
51) 2-Fluorobiphenyl	6.167	172	766381	39.04	ppm	0.00
Spiked Amount 50.000			Recovery = 78.08%			
74) 2,4,6-Tribromophenol	7.274	330	107602	45.29	ppm	0.00
Spiked Amount 50.000			Recovery = 90.58%			
87) Terphenyl-d14	9.355	244	763388	39.75	ppm	0.00
Spiked Amount 50.000			Recovery = 79.50%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
38) Naphthalene	5.482	128	8039	0.2973	ppm	93
44) 2-Methylnaphthalene	5.926	141	3644	0.2273	ppm	80
45) 1-Methylnaphthalene	5.990	141	3819	0.2491	ppm	88
53) Biphenyl	6.236	154	3899	0.1819	ppm	92
56) Acenaphthylene	6.557	152	57563	2.3790	ppm	98
59) Acenaphthene	6.680	153	19796	1.1504	ppm	89
62) Dibenzofuran	6.814	168	11272	0.4720	ppm	98
66) Fluorene	7.081	166	23336	1.2371	ppm	93
78) Phenanthrene	7.894	178	352884	13.4756	ppm	99
79) Anthracene	7.937	178	107408	4.0963	ppm	97
80) Carbazole	8.076	167	31153	1.2750	ppm	96
82) Fluoranthene	8.986	202	755421	26.6461	ppm	98
86) Pyrene	9.200	202	704906	26.6686	ppm	99
89) Benzo[a]anthracene	10.355	228	340118	13.6104	ppm	95
91) Chrysene	10.392	228	303826	13.1778	ppm	98
92) bis(2-Ethylhexyl)phtha...	10.408	149	7280	0.4168	ppm	89
95) Benzo[b]fluoranthene	11.355	252	373001m	15.3386	ppm	
96) Benzo[k]fluoranthene	11.376	252	136086m	6.2191	ppm	
97) Benzo[a]pyrene	11.665	252	286699	14.2418	ppm	100
98) Indeno[1,2,3-cd]pyrene	12.901	276	192865	7.9249	ppm	98
100) Dibenz[a,h]anthracene	12.922	278	47506	2.4430	ppm	97
102) Benzo[g,h,i]perylene	13.243	276	183672	9.7119	ppm	98

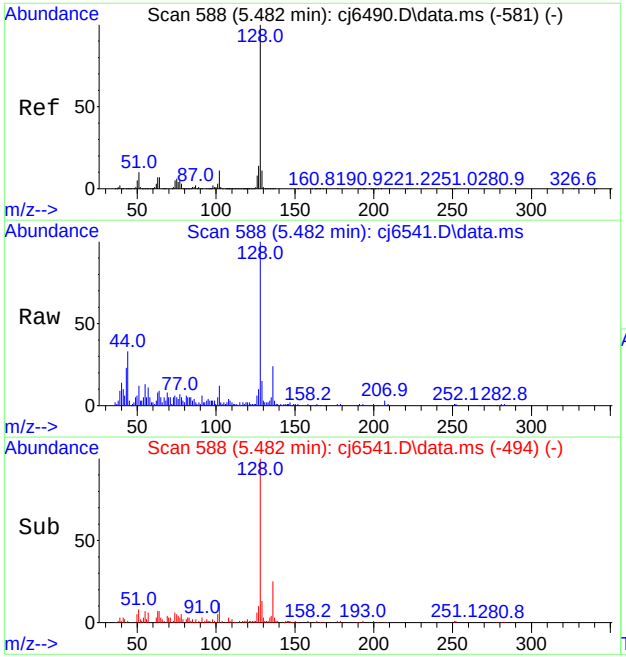
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14 Inst : GCMSCJ
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: May 10 20:13:49 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

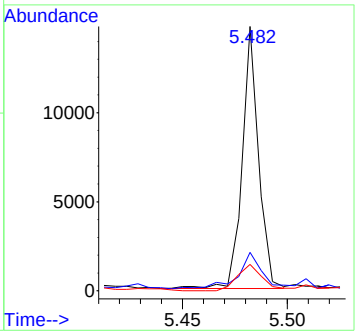


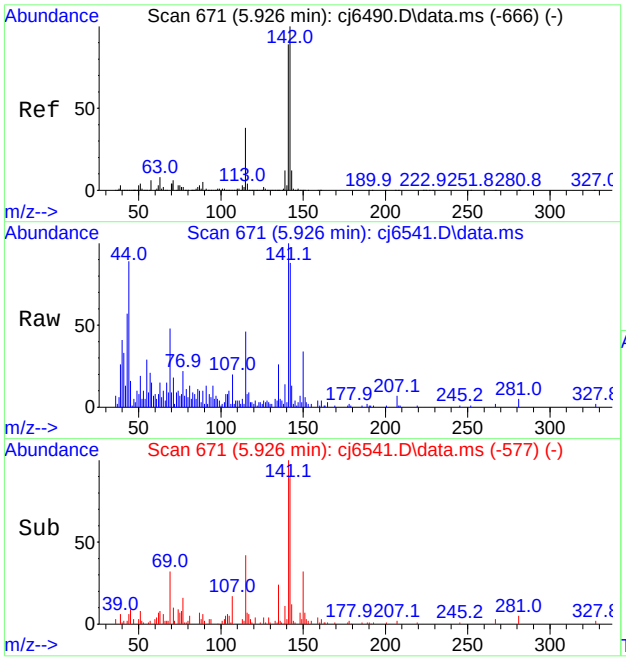


#38
Naphthalene
Concen: 0.2973 ppm
RT: 5.482 min Scan# 588
Delta R.T. 0.000 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:128 Resp: 8039

Ion	Ratio	Lower	Upper
128	100		
129	13.1	0.0	41.4
127	9.3	0.0	43.3

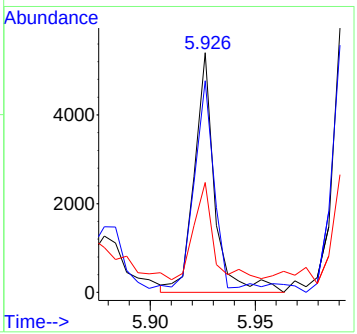


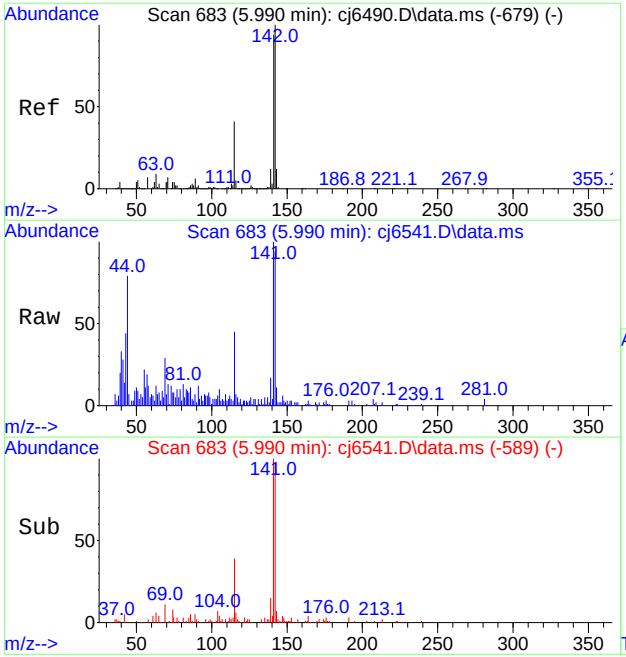


#44
2-Methylnaphthalene
Concen: 0.2273 ppm
RT: 5.926 min Scan# 671
Delta R.T. 0.000 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:141 Resp: 3644

Ion	Ratio	Lower	Upper
141	100		
142	86.1	82.7	142.7
115	37.9	12.4	72.4

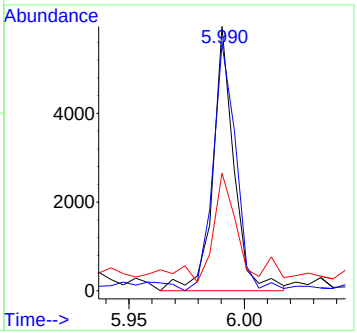


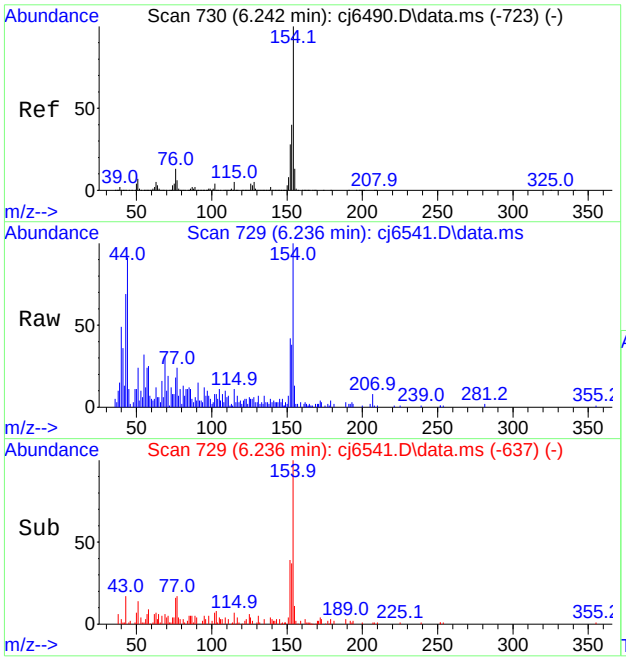


#45
1-Methylnaphthalene
Concen: 0.2491 ppm
RT: 5.990 min Scan# 683
Delta R.T. 0.000 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:141 Resp: 3819

Ion	Ratio	Lower	Upper
141	100		
142	92.5	77.0	137.0
115	38.5	14.2	74.2

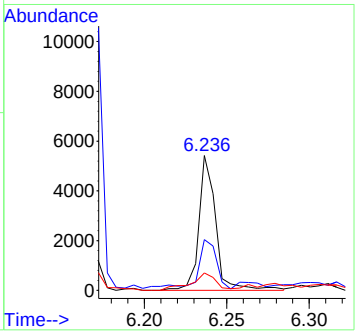


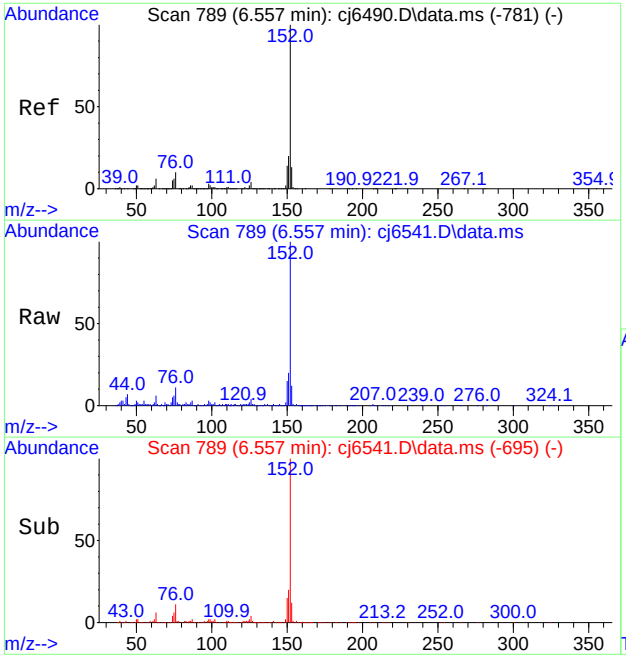


#53
Biphenyl
Concen: 0.1819 ppm
RT: 6.236 min Scan# 729
Delta R.T. -0.006 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:154 Resp: 3899

Ion	Ratio	Lower	Upper
154	100		
153	34.2	10.5	70.5
155	13.0	0.0	42.8

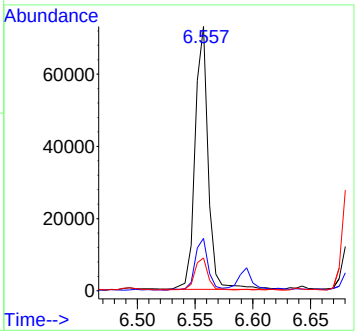


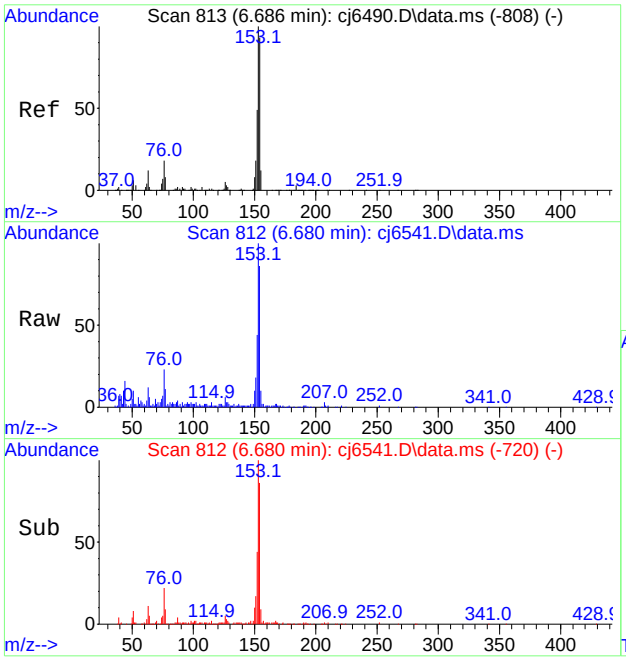


#56
Acenaphthylene
Concen: 2.3790 ppm
RT: 6.557 min Scan# 789
Delta R.T. 0.000 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:152 Resp: 57563

Ion	Ratio	Lower	Upper
152	100		
151	19.4	0.0	50.3
153	12.2	0.0	43.4

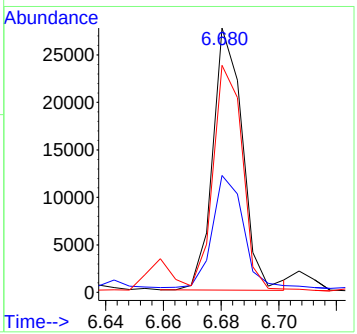


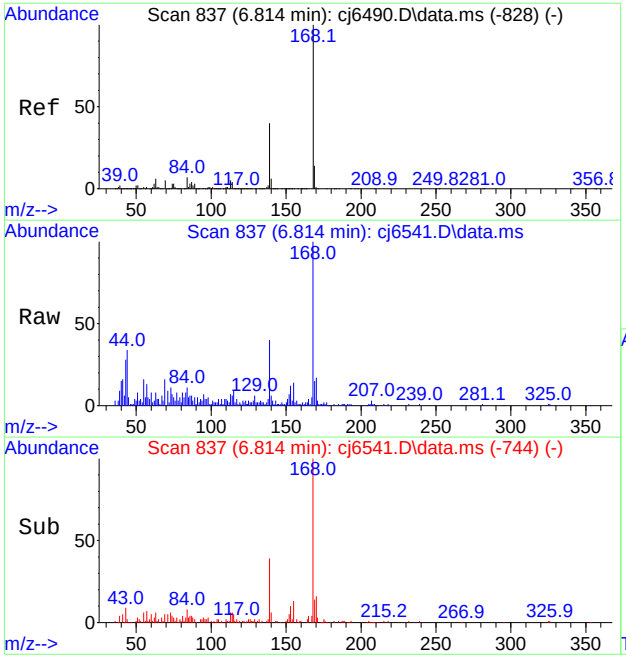


#59
Acenaphthene
Concen: 1.1504 ppm
RT: 6.680 min Scan# 812
Delta R.T. -0.006 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:153 Resp: 19796

Ion	Ratio	Lower	Upper
153	100		
152	43.2	18.8	78.8
154	81.2	62.9	122.9

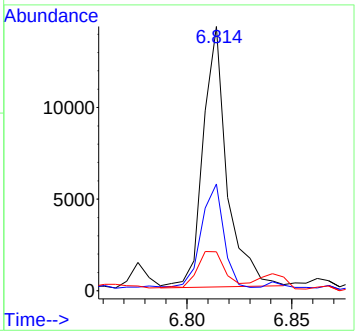


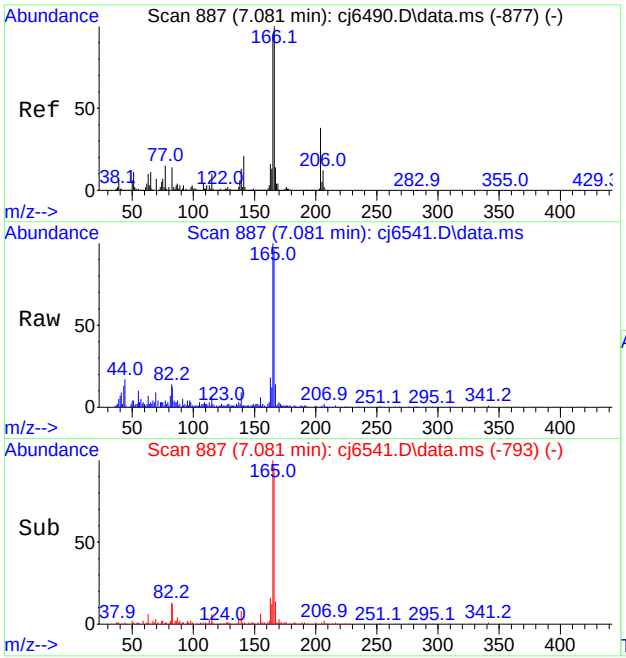


#62
Dibenzofuran
Concen: 0.4720 ppm
RT: 6.814 min Scan# 837
Delta R.T. 0.000 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:168 Resp: 11272

Ion	Ratio	Lower	Upper
168	100		
139	39.4	10.0	70.0
169	11.8	0.0	43.7

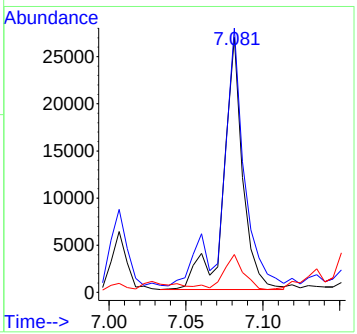


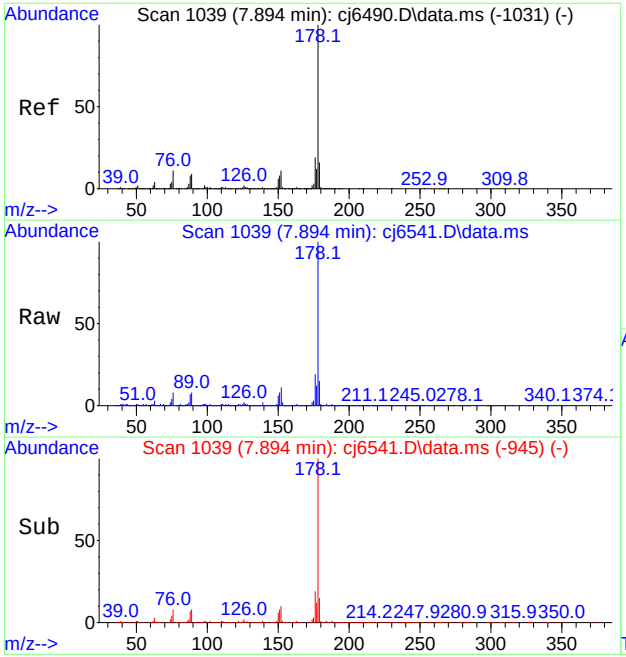


#66
Fluorene
Concen: 1.2371 ppm
RT: 7.081 min Scan# 887
Delta R.T. 0.000 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:166 Resp: 23336

Ion	Ratio	Lower	Upper
166	100		
165	102.3	65.4	125.4
167	12.6	0.0	43.8

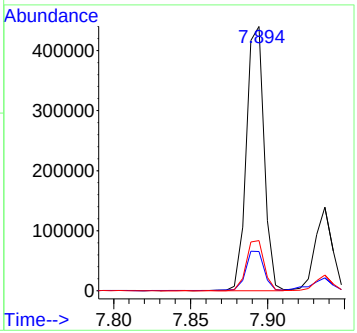


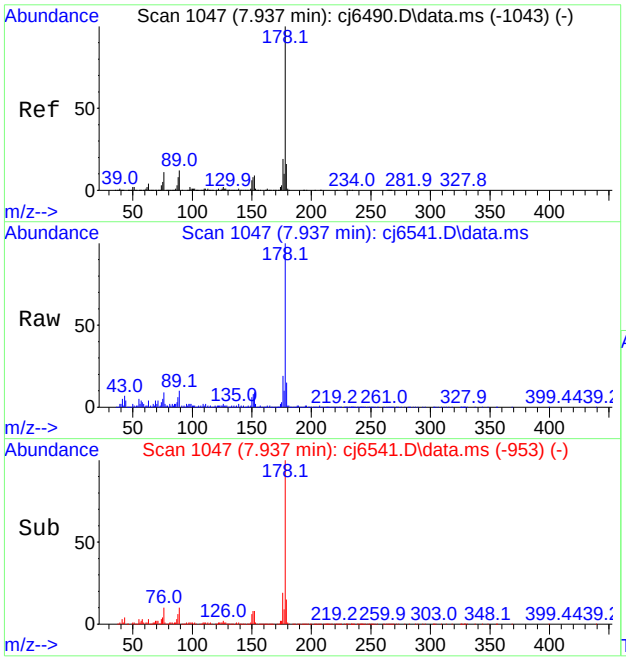


#78
Phenanthrene
Concen: 13.4756 ppm
RT: 7.894 min Scan# 1039
Delta R.T. 0.000 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:178 Resp: 352884

Ion	Ratio	Lower	Upper
178	100		
179	14.7	0.0	45.5
176	18.9	0.0	49.2

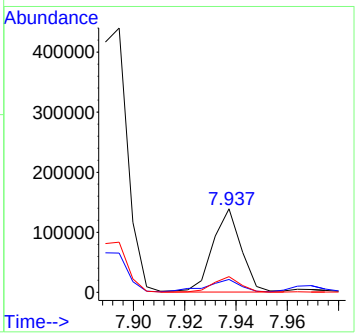


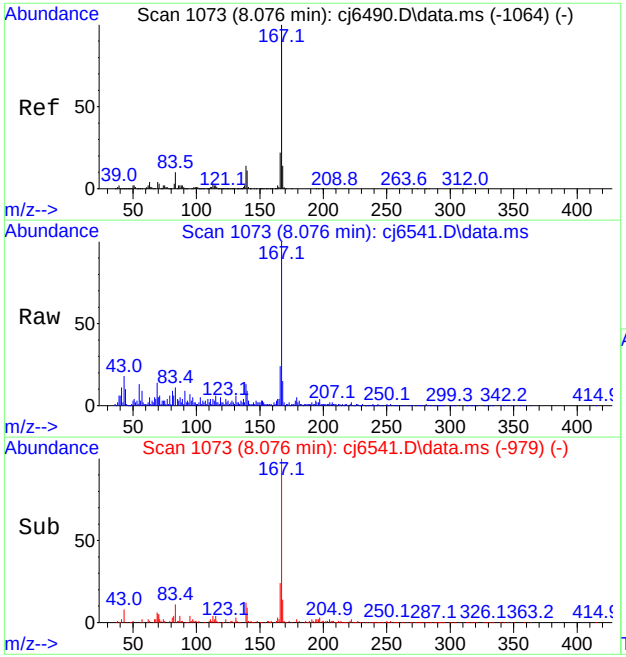


#79
Anthracene
Concen: 4.0963 ppm
RT: 7.937 min Scan# 1047
Delta R.T. 0.000 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:178 Resp: 107408

Ion	Ratio	Lower	Upper
178	100		
179	13.8	0.0	46.1
176	18.7	0.0	48.7

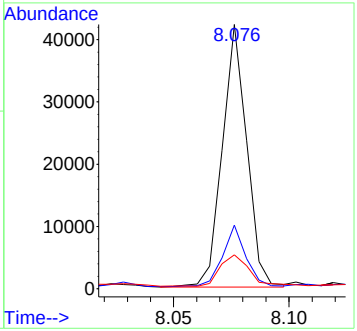


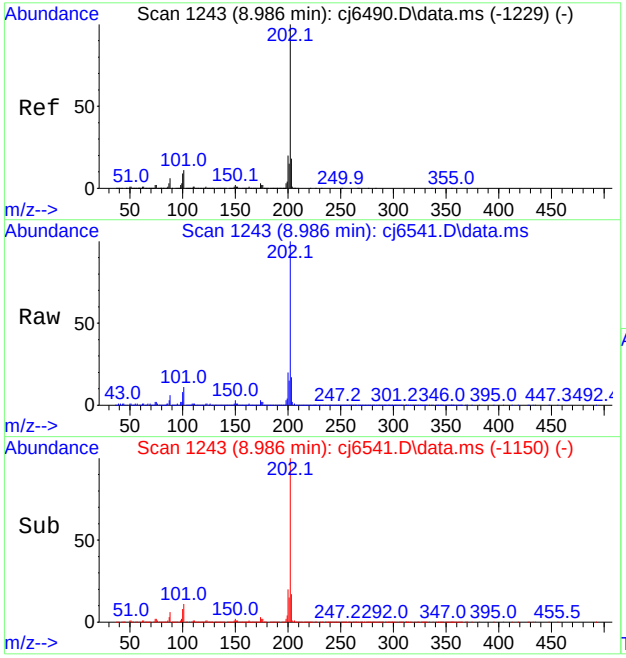


#80
Carbazole
Concen: 1.2750 ppm
RT: 8.076 min Scan# 1073
Delta R.T. 0.000 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:167 Resp: 31153

Ion	Ratio	Lower	Upper
167	100		
166	23.5	0.0	51.7
139	11.7	0.0	43.8

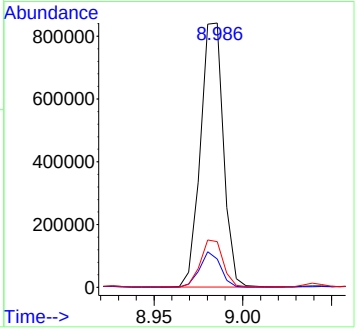


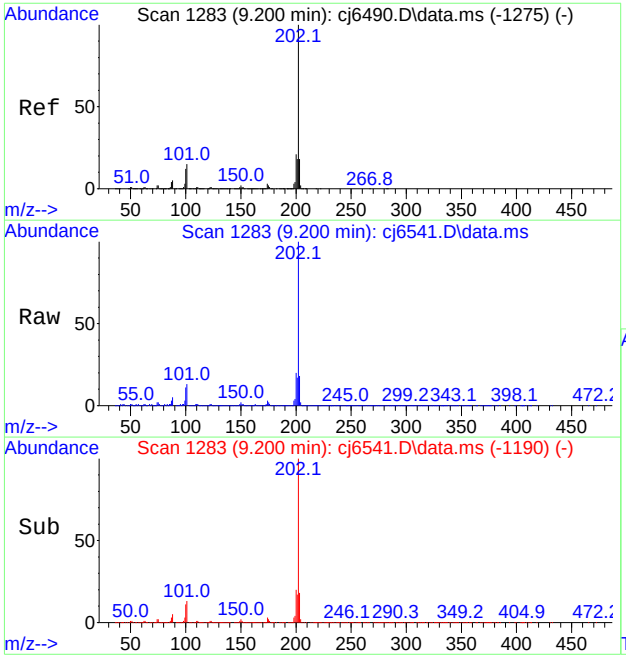


#82
Fluoranthene
Concen: 26.6461 ppm
RT: 8.986 min Scan# 1243
Delta R.T. -0.000 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:202 Resp: 755421

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	41.4
203	17.1	0.0	47.6

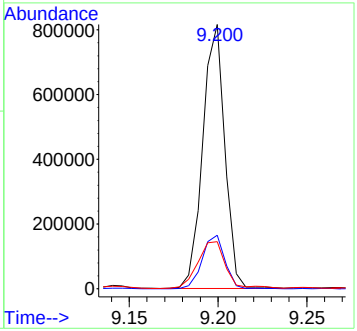


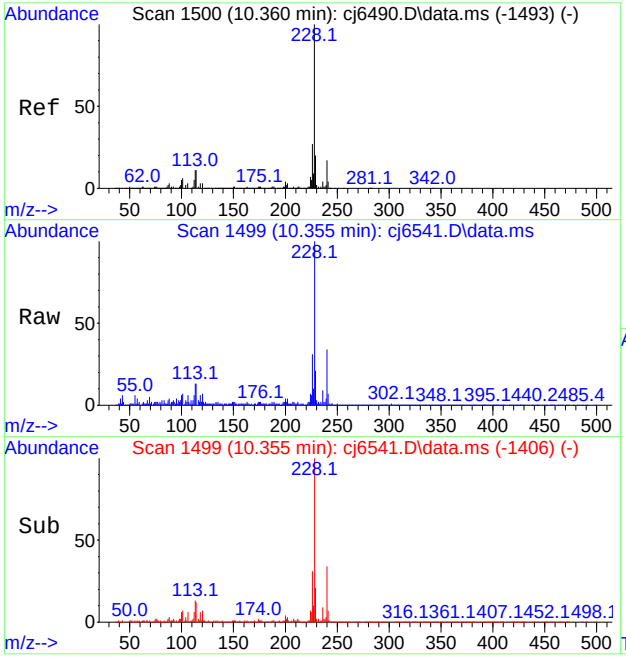


#86
Pyrene
Concen: 26.6686 ppm
RT: 9.200 min Scan# 1283
Delta R.T. -0.000 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:202 Resp: 704906

Ion	Ratio	Lower	Upper
202	100		
200	20.3	0.0	51.4
203	17.7	0.0	47.8

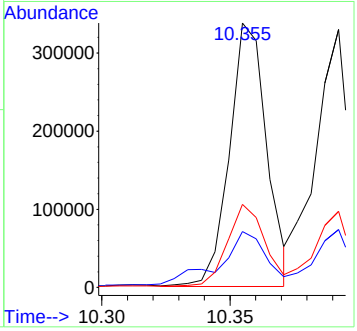


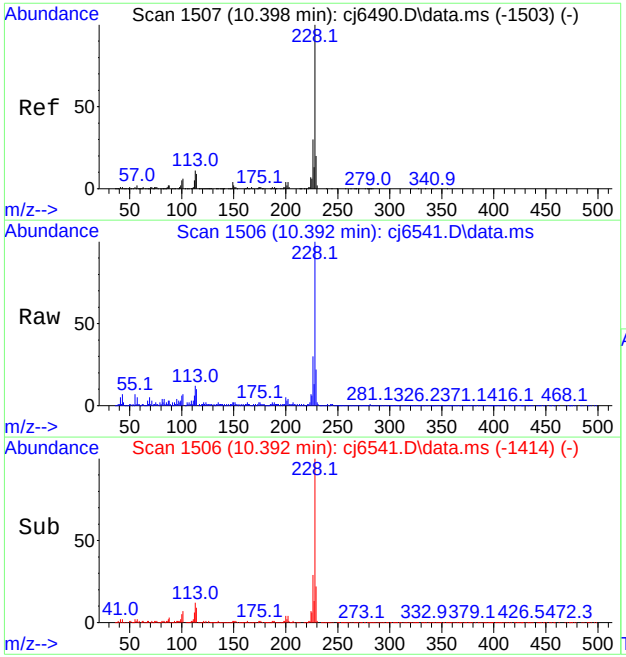


#89
Benzo[a]anthracene
Concen: 13.6104 ppm
RT: 10.355 min Scan# 1499
Delta R.T. -0.005 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:228 Resp: 340118

Ion	Ratio	Lower	Upper
228	100		
229	20.0	0.0	49.8
226	31.3	0.0	57.1

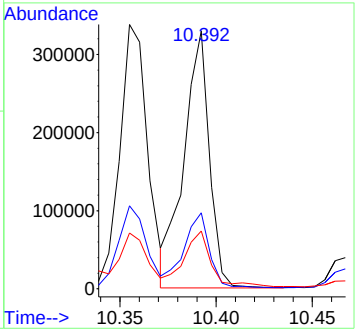


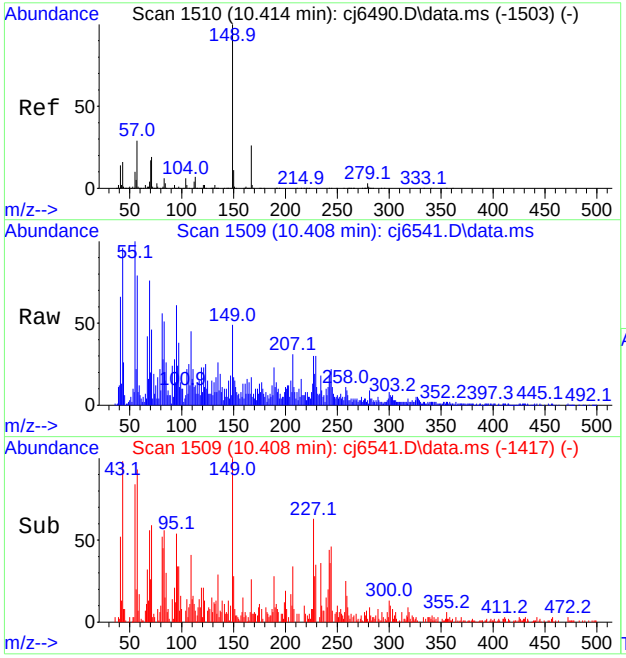


#91
Chrysene
Concen: 13.1778 ppm
RT: 10.392 min Scan# 1506
Delta R.T. -0.006 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:228 Resp: 303826

Ion	Ratio	Lower	Upper
228	100		
226	29.2	0.0	59.9
229	21.6	0.0	49.8

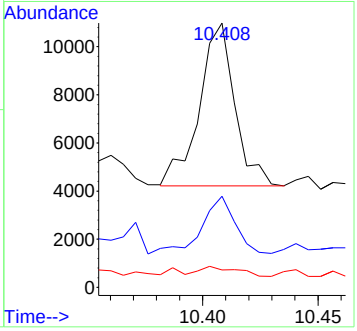


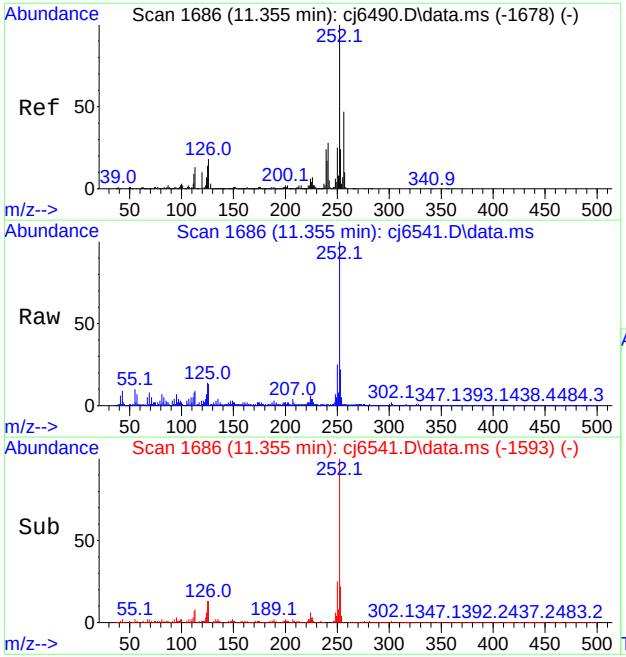


#92
bis(2-Ethylhexyl)phthalate
Concen: 0.4168 ppm
RT: 10.408 min Scan# 1509
Delta R.T. -0.006 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:149 Resp: 7280

Ion	Ratio	Lower	Upper
149	100		
167	32.4	0.0	56.1
279	1.9	0.0	33.2

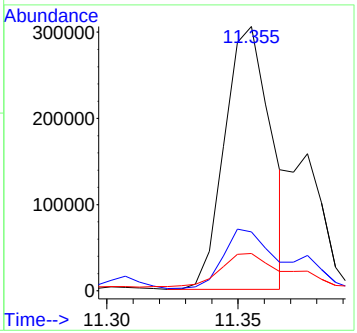


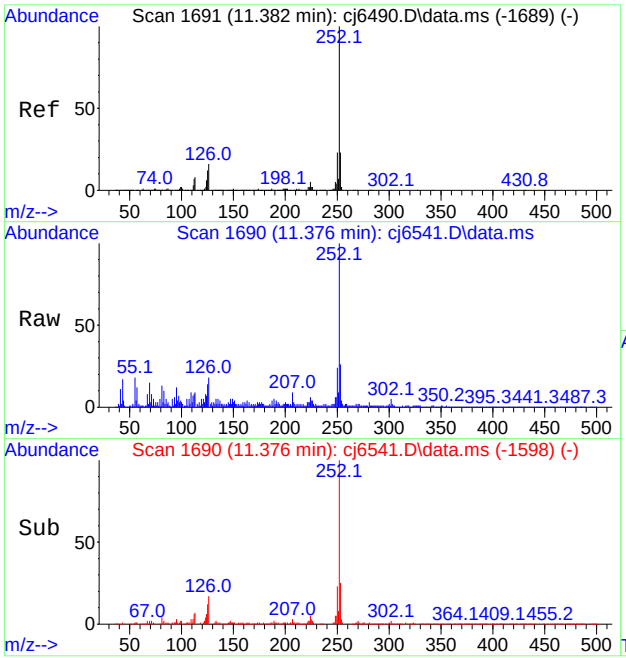


#95
Benzo[b]fluoranthene
Concen: 15.3386 ppm m
RT: 11.355 min Scan# 1686
Delta R.T. 0.000 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:252 Resp: 373001

Ion	Ratio	Lower	Upper
252	100		
253	22.2	0.0	54.7
125	14.1	0.0	44.2

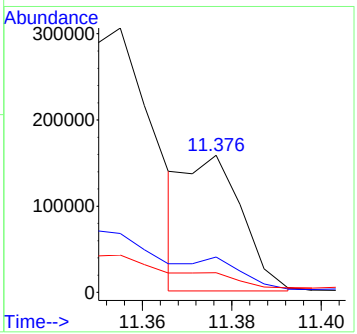


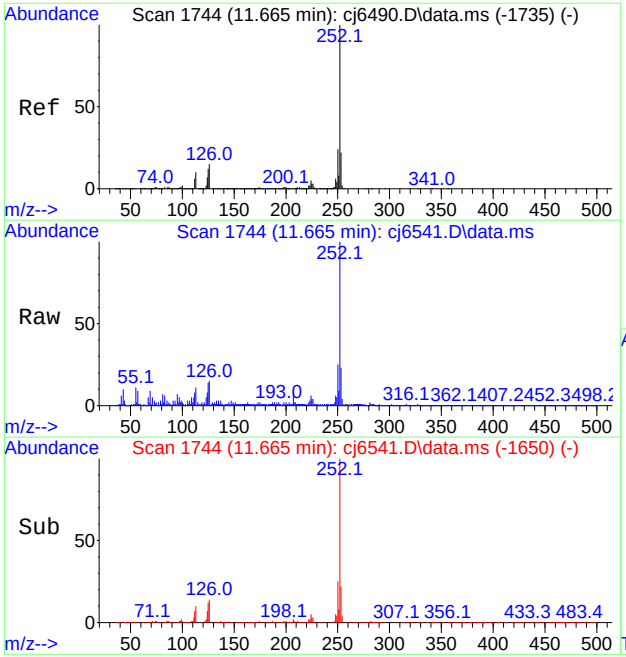


#96
Benzo[k]fluoranthene
Concen: 6.2191 ppm m
RT: 11.376 min Scan# 1690
Delta R.T. -0.006 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:252 Resp: 136086

Ion	Ratio	Lower	Upper
252	100		
253	25.8	0.0	52.6
125	14.3	0.0	42.4

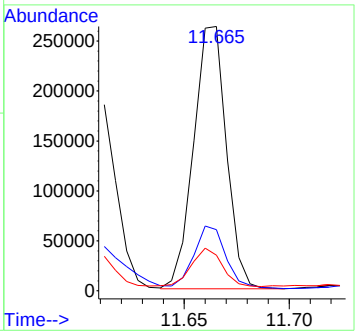


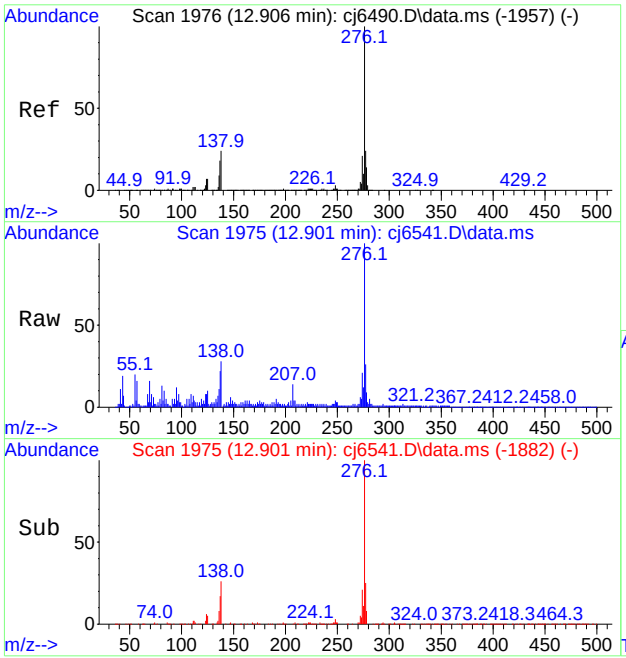


#97
Benzo[a]pyrene
Concen: 14.2418 ppm
RT: 11.665 min Scan# 1744
Delta R.T. 0.000 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:252 Resp: 286699

Ion	Ratio	Lower	Upper
252	100		
253	21.8	0.0	51.9
125	11.7	0.0	42.1

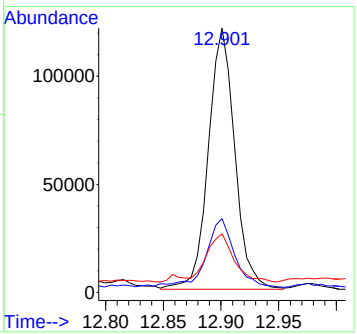


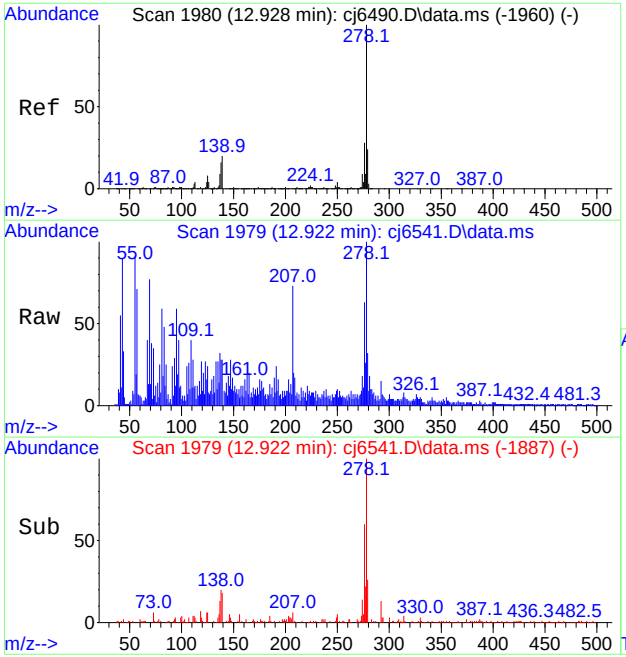


#98
Indeno[1,2,3-cd]pyrene
Concen: 7.9249 ppm
RT: 12.901 min Scan# 1975
Delta R.T. -0.005 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:276 Resp: 192865

Ion	Ratio	Lower	Upper
276	100		
138	25.7	0.0	54.2
137	18.2	0.0	47.9

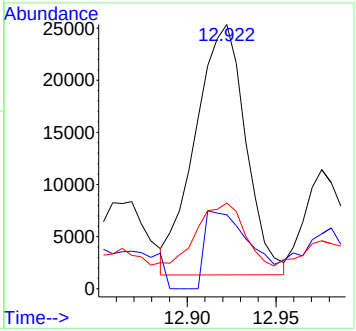


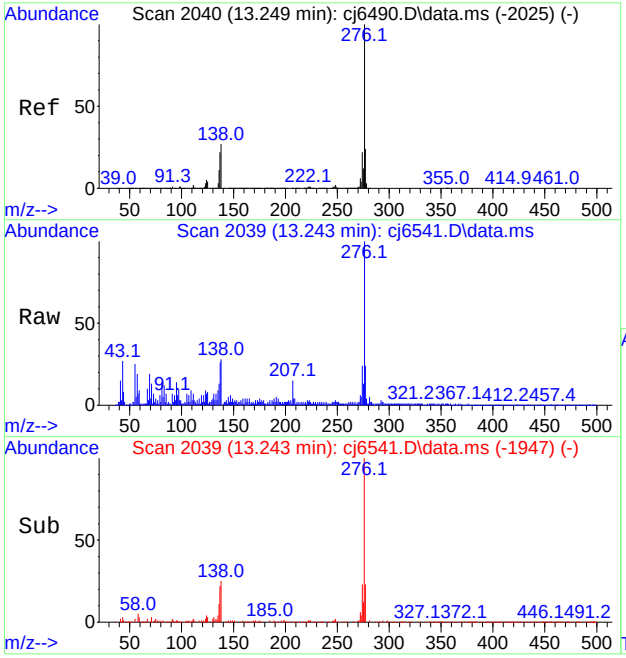


#100
Dibenz[a,h]anthracene
Concen: 2.4430 ppm
RT: 12.922 min Scan# 1979
Delta R.T. -0.006 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:278 Resp: 47506

Ion	Ratio	Lower	Upper
278	100		
139	18.2	0.0	49.8
279	25.1	0.0	54.1

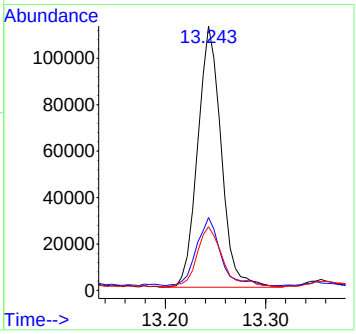




#102
Benzo[g,h,i]perylene
Concen: 9.7119 ppm
RT: 13.243 min Scan# 2039
Delta R.T. -0.006 min
Lab File: cj6541.D
Acq: 10 May 2024 01:13 am

Tgt Ion:276 Resp: 183672

Ion	Ratio	Lower	Upper
276	100		
138	25.9	0.0	56.7
277	23.0	0.0	54.1



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6541.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.172	334	343	354	rVB	61903	88241	2.46%	0.145%
2	4.252	354	358	366	rVB	723607	446281	12.44%	0.734%
3	4.429	379	391	396	rBV	2207855	1328048	37.02%	2.184%
4	4.487	399	402	407	rVB	315498	169285	4.72%	0.278%
5	4.664	431	435	440	rBV	2859236	1958687	54.60%	3.221%
6	4.760	449	453	460	rBV	189924	133408	3.72%	0.219%
7	4.824	460	465	469	rBV	216796	141066	3.93%	0.232%
8	5.012	493	500	504	rBV	1813771	1198423	33.41%	1.971%
9	5.472	578	586	591	rBV	3604595	2417340	67.39%	3.975%
10	6.167	712	716	720	rBV	3816843	2290711	63.86%	3.767%
11	6.557	784	789	793	rBV	161700	151203	4.21%	0.249%
12	6.659	800	808	811	rBV	4233329	2725652	75.98%	4.482%
13	6.809	826	836	840	rBV3	69272	120555	3.36%	0.198%
14	7.081	884	887	892	rVB	95326	82842	2.31%	0.136%
15	7.274	913	923	927	rBV	1519050	1153604	32.16%	1.897%
16	7.584	974	981	987	rVB4	74247	131071	3.65%	0.216%
17	7.632	987	990	994	rBV2	124540	129958	3.62%	0.214%
18	7.777	1013	1017	1023	rVB3	63290	106072	2.96%	0.174%
19	7.836	1023	1028	1031	rBV2	85737	96011	2.68%	0.158%
20	7.873	1031	1035	1037	rBV	3497635	2823673	78.71%	4.643%
21	7.889	1037	1038	1042	rVB	1045562	716154	19.96%	1.178%
22	7.937	1042	1047	1049	rVB	318447	228119	6.36%	0.375%
23	7.959	1050	1051	1058	rVB4	99636	91904	2.56%	0.151%
24	8.076	1067	1073	1080	rBV2	136815	187145	5.22%	0.308%
25	8.226	1096	1101	1108	rVB4	96079	146329	4.08%	0.241%
26	8.322	1108	1119	1121	rBV	213030	328204	9.15%	0.540%
27	8.370	1125	1128	1135	rVB2	560280	550516	15.35%	0.905%
28	8.424	1135	1138	1147	rVB2	327181	401186	11.18%	0.660%
29	8.536	1147	1159	1165	rBV6	105301	206785	5.76%	0.340%
30	8.601	1165	1171	1172	rBV2	120827	114475	3.19%	0.188%
31	8.617	1172	1174	1178	rVB2	125103	102463	2.86%	0.168%
32	8.836	1209	1215	1217	rBV2	122274	134001	3.74%	0.220%
33	8.863	1217	1220	1224	rBV4	69365	81344	2.27%	0.134%
34	8.911	1224	1229	1234	rVB3	129985	176775	4.93%	0.291%
35	8.980	1235	1242	1248	rBV	2034349	1834907	51.15%	3.017%
36	9.060	1248	1257	1263	rBV5	283885	684111	19.07%	1.125%
37	9.125	1263	1269	1275	rBV4	247970	308683	8.60%	0.508%
38	9.200	1276	1283	1288	rBV	1853938	1899407	52.95%	3.124%
39	9.317	1299	1305	1308	rBV	131704	149463	4.17%	0.246%
40	9.355	1308	1312	1318	rBV	2848521	2339017	65.20%	3.846%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.414	1318	1323	1327	rBV2	136860	228184	6.36%	0.375%
42	9.515	1332	1342	1346	rVB2	208829	342412	9.54%	0.563%
43	9.585	1346	1355	1358	rBV2	229135	314985	8.78%	0.518%
44	9.617	1358	1361	1369	rVB3	260178	275927	7.69%	0.454%
45	9.708	1374	1378	1380	rBV	101154	85781	2.39%	0.141%
46	9.831	1396	1401	1410	rVB6	141238	192944	5.38%	0.317%
47	10.007	1429	1434	1440	rBV	155535	161651	4.51%	0.266%
48	10.071	1441	1446	1449	rBV3	132374	125377	3.49%	0.206%
49	10.114	1449	1454	1458	rBV2	158790	236917	6.60%	0.390%
50	10.152	1458	1461	1462	rBV	116666	102305	2.85%	0.168%
51	10.210	1470	1472	1477	rVB	124176	110706	3.09%	0.182%
52	10.269	1478	1483	1491	rBV2	319010	447320	12.47%	0.736%
53	10.366	1493	1501	1504	rBV2	3169790	3587355	100.00%	5.899%
54	10.392	1504	1506	1514	rVB	896247	774445	21.59%	1.274%
55	10.467	1514	1520	1521	rBV2	144597	157353	4.39%	0.259%
56	10.494	1521	1525	1530	rVB3	239173	329694	9.19%	0.542%
57	10.596	1541	1544	1551	rBV3	152024	266859	7.44%	0.439%
58	10.687	1557	1561	1564	rBV5	81464	113151	3.15%	0.186%
59	10.751	1569	1573	1576	rVB	154187	158266	4.41%	0.260%
60	10.783	1576	1579	1582	rBV2	106055	84871	2.37%	0.140%
61	10.810	1582	1584	1587	rBV3	77564	78983	2.20%	0.130%
62	10.906	1592	1602	1607	rBV3	578767	863050	24.06%	1.419%
63	10.949	1607	1610	1615	rVB4	91708	120539	3.36%	0.198%
64	11.050	1622	1629	1637	rVB6	162586	311045	8.67%	0.512%
65	11.114	1637	1641	1648	rBV3	303417	547890	15.27%	0.901%
66	11.211	1653	1659	1666	rVV7	200532	520975	14.52%	0.857%
67	11.264	1666	1669	1675	rVV4	126692	239489	6.68%	0.394%
68	11.350	1678	1685	1693	rVV	994832	2163227	60.30%	3.557%
69	11.446	1694	1703	1712	rVV3	435431	1219540	34.00%	2.006%
70	11.521	1712	1717	1724	rVV4	551733	957014	26.68%	1.574%
71	11.574	1724	1727	1730	rVV4	88570	118819	3.31%	0.195%
72	11.612	1730	1734	1738	rVV	503916	600020	16.73%	0.987%
73	11.660	1738	1743	1748	rVB	776975	852279	23.76%	1.402%
74	11.719	1748	1754	1769	rBV	2173802	2846740	79.35%	4.681%
75	11.874	1775	1783	1786	rBV9	52577	115654	3.22%	0.190%
76	12.040	1796	1814	1827	rBV9	909558	3204470	89.33%	5.270%
77	12.211	1836	1846	1849	rBV2	289720	490989	13.69%	0.807%
78	12.243	1849	1852	1856	rVV2	171163	205817	5.74%	0.338%
79	12.307	1861	1864	1868	rBV5	44941	78824	2.20%	0.130%
80	12.403	1878	1882	1887	rVB3	126430	170608	4.76%	0.281%
81	12.478	1887	1896	1900	rVV3	178509	397295	11.07%	0.653%
82	12.526	1900	1905	1916	rVV3	204072	655043	18.26%	1.077%
83	12.633	1919	1925	1927	rVV7	81902	171836	4.79%	0.283%
84	12.671	1928	1932	1942	rVB7	153421	336568	9.38%	0.553%
85	12.773	1942	1951	1959	rBV4	112544	278366	7.76%	0.458%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.858	1962	1967	1971	rVV3	166843	292223	8.15%	0.481%
87	12.901	1971	1975	1983	rVV2	343426	580540	16.18%	0.955%
88	12.976	1983	1989	1992	rVV6	133556	271316	7.56%	0.446%
89	13.045	1994	2002	2007	rVV2	144100	464480	12.95%	0.764%
90	13.093	2007	2011	2019	rVV6	206805	468783	13.07%	0.771%
91	13.174	2020	2026	2031	rVV3	197293	462428	12.89%	0.760%
92	13.243	2031	2039	2055	rVV	403345	1007076	28.07%	1.656%
93	13.420	2056	2072	2078	rVV5	493400	1272624	35.48%	2.093%
94	13.495	2079	2086	2106	rVB5	187125	821888	22.91%	1.352%
95	13.714	2123	2127	2139	rVB5	75950	203871	5.68%	0.335%
96	13.848	2149	2152	2162	rVB5	50419	109750	3.06%	0.180%
97	13.971	2170	2175	2181	rBV5	111511	283327	7.90%	0.466%
98	14.158	2204	2210	2214	rBV9	50058	101244	2.82%	0.166%
99	14.217	2216	2221	2232	rVB10	100609	232168	6.47%	0.382%
100	14.431	2254	2261	2269	rBV10	85835	223282	6.22%	0.367%

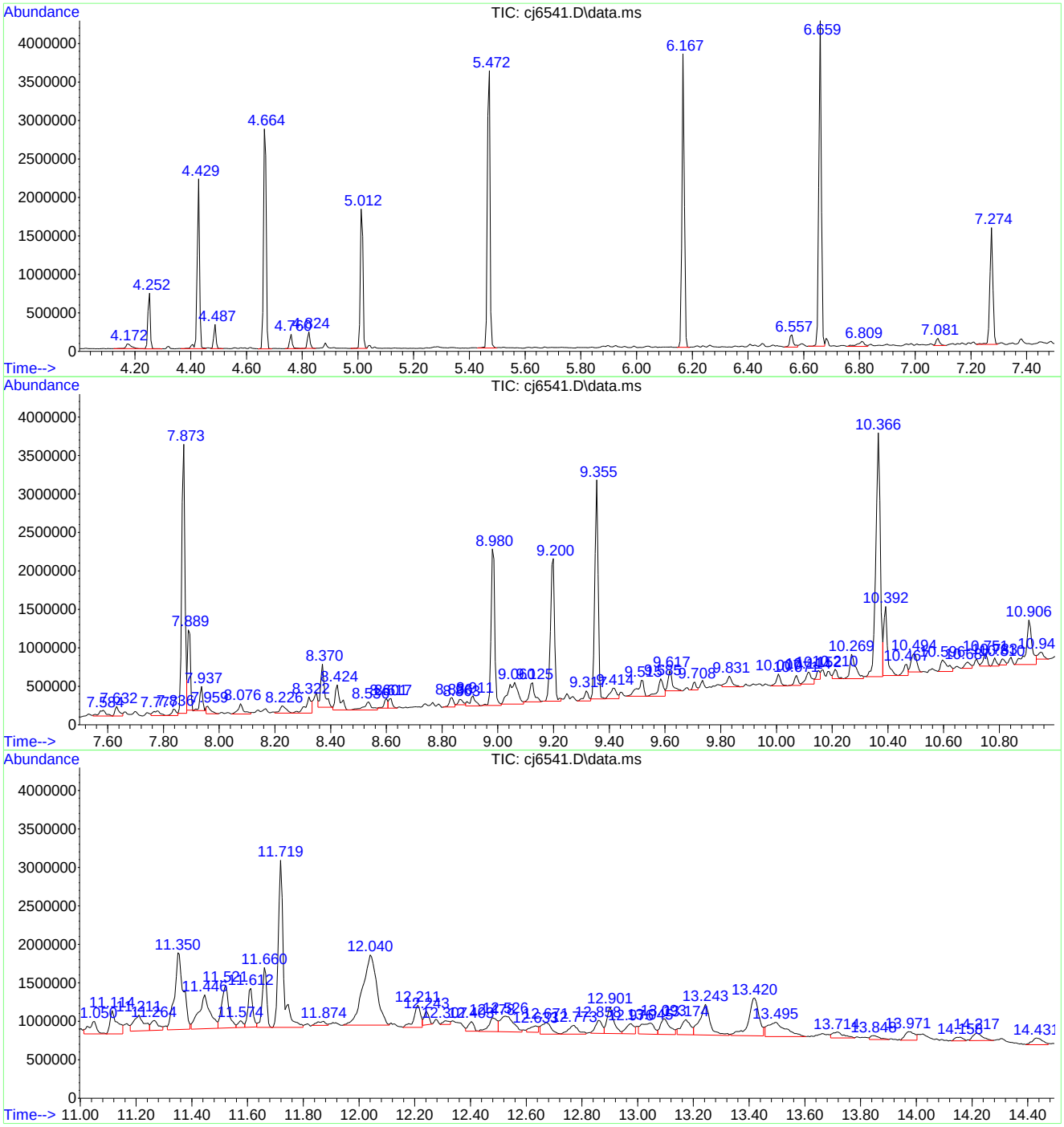
Sum of corrected areas: 60809702

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

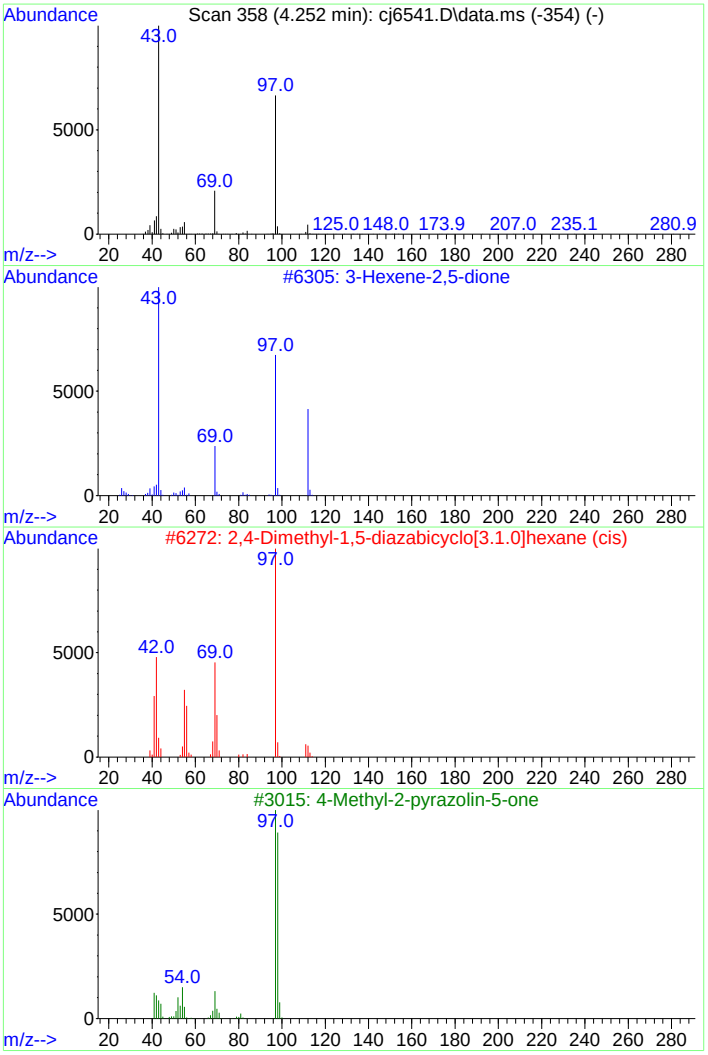
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

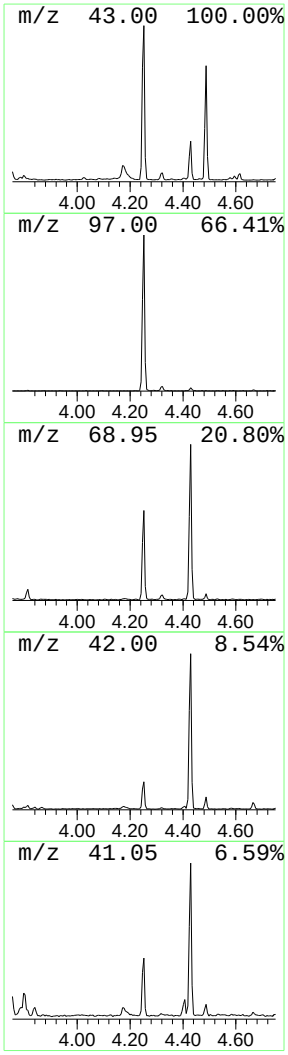
****

Peak Number 1 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.252	9.11 ppm	446281	1,4-Dichlorobenzene-d4a	4.669

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexene-2,5-dione	112	C6H8O2	004436-75-3	78
2	2,4-Dimethyl-1,5-diazabicyclo[3....	112	C6H12N2	100463-01-2	28
3	4-Methyl-2-pyrazolin-5-one	98	C4H6N2O	013315-23-6	28
4	5-Hexen-2-one	98	C6H10O	000109-49-9	22
5	5-Hexen-2-one	98	C6H10O	000109-49-9	14





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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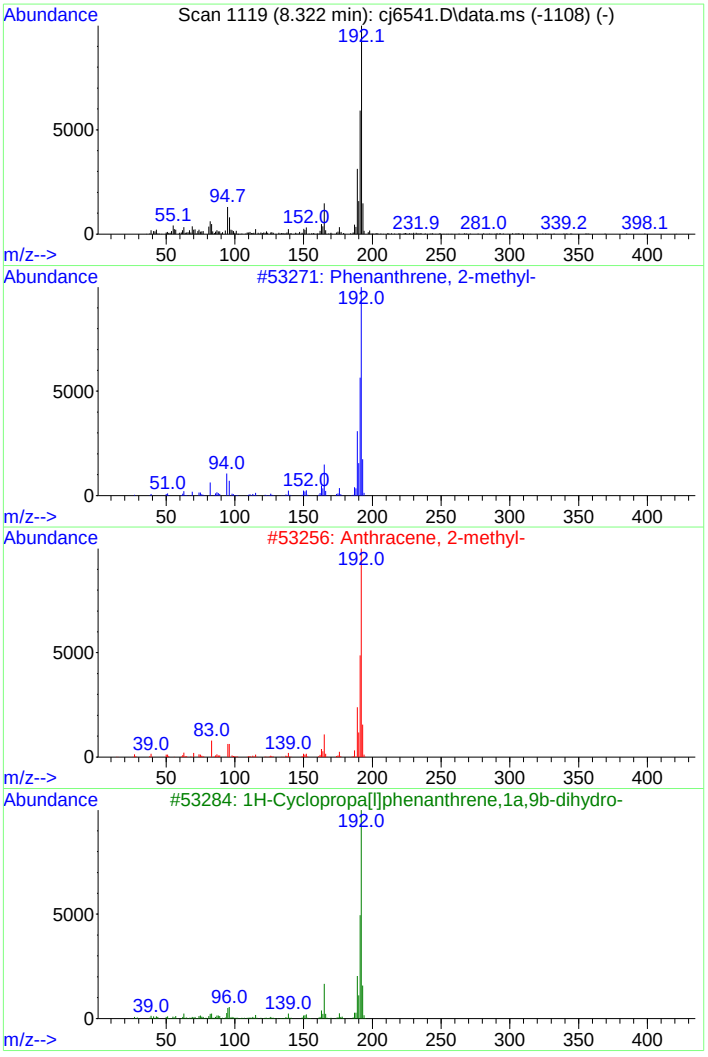
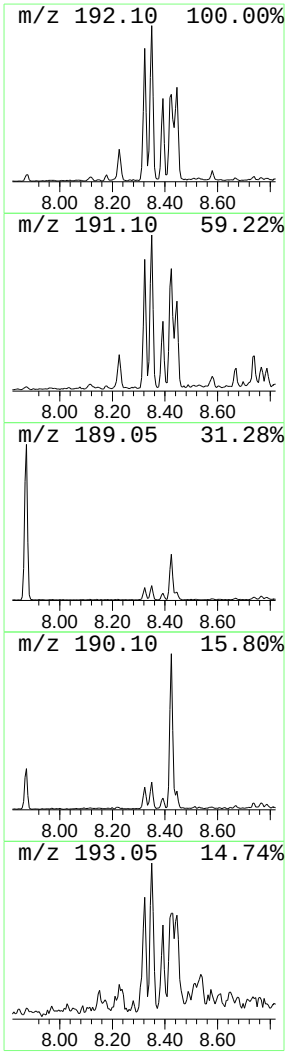
Peak Number 2 Phenanthrene, methyl Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.322	4.65 ppm	328204	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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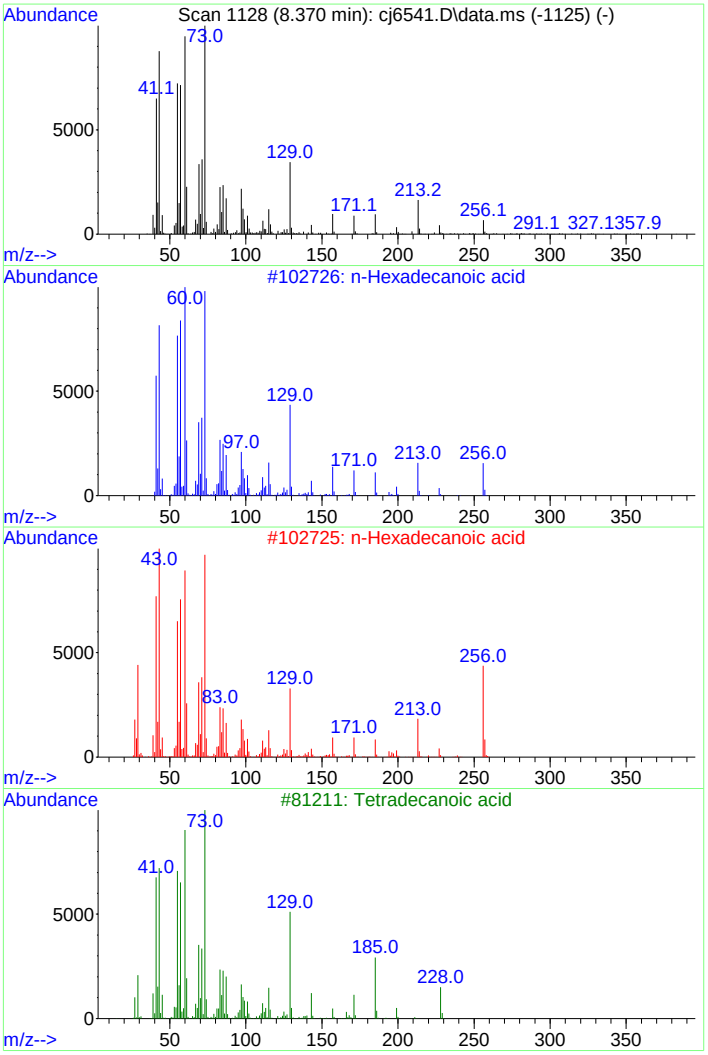
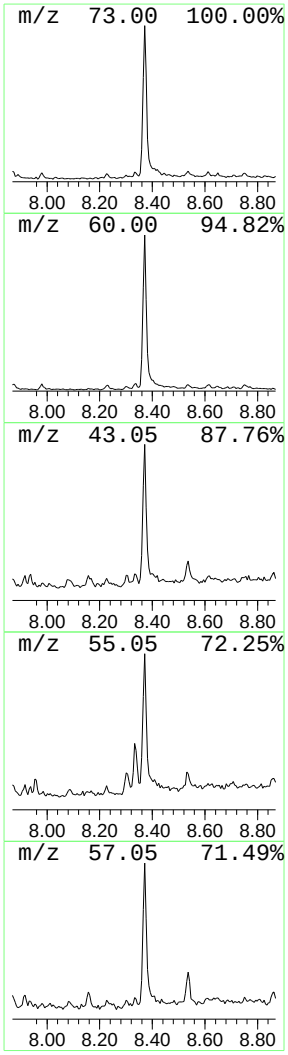
Peak Number 3 n-Hexadecanoic acid Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.370	7.80 ppm	550516	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	93
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
5	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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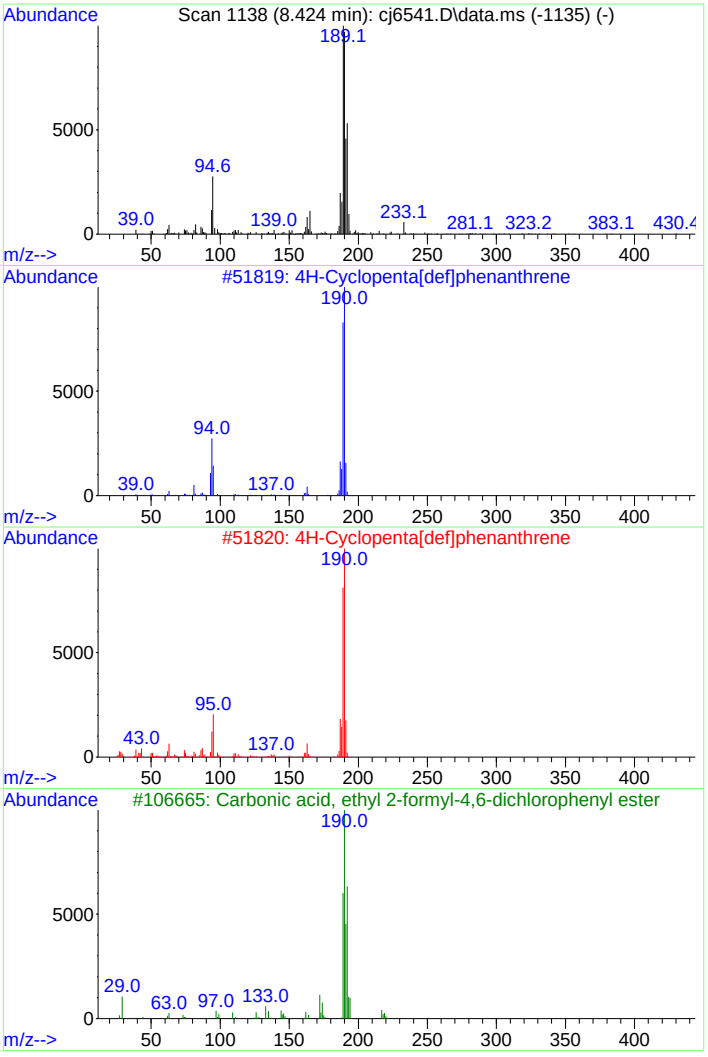
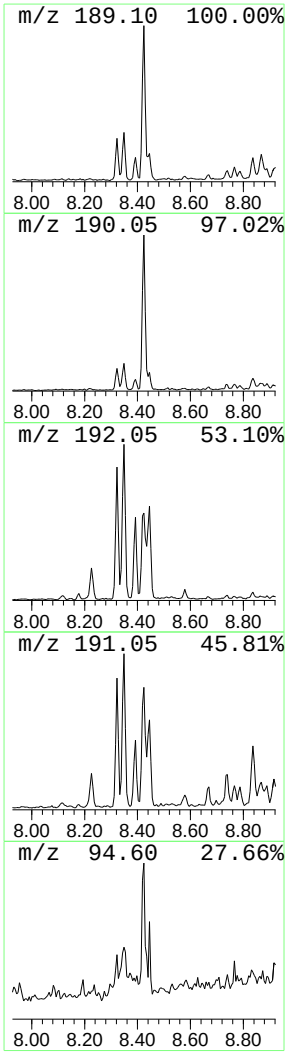
Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.424	5.68 ppm	401186	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
3	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	47
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	47
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	25





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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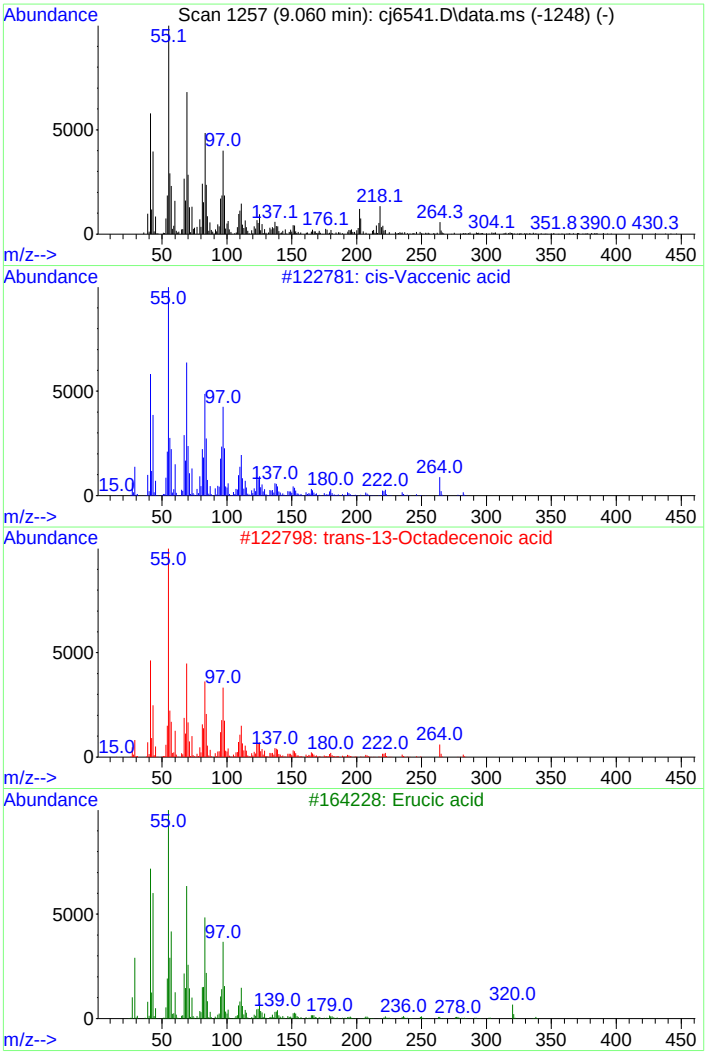
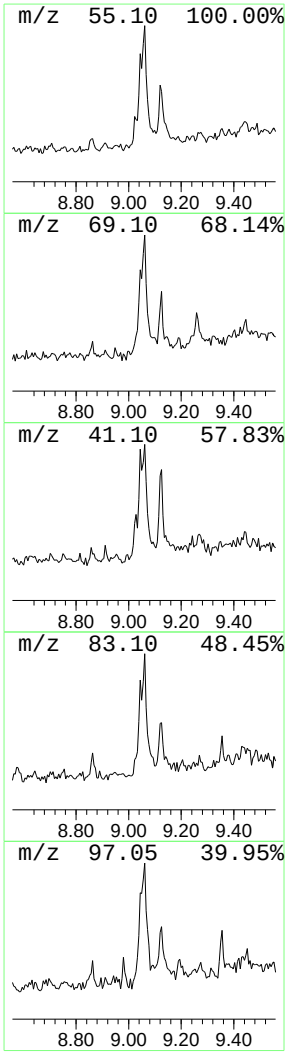
Peak Number 5 Unknown acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.060	9.69 ppm	684111	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	cis-Vaccenic acid	282	C18H34O2	000506-17-2	81
2	trans-13-Octadecenoic acid	282	C18H34O2	000693-71-0	81
3	Erucic acid	338	C22H42O2	000112-86-7	81
4	cis-11-Eicosenoic acid	310	C20H38O2	005561-99-9	81
5	Octadec-9-enoic acid	282	C18H34O2	1000190-13-7	76





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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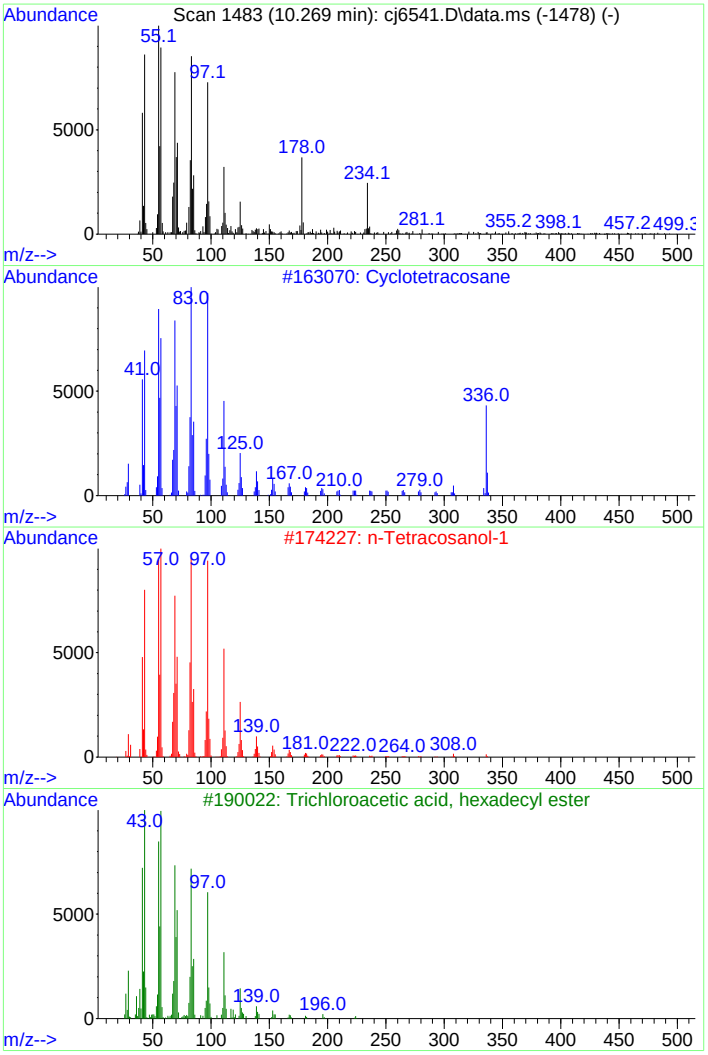
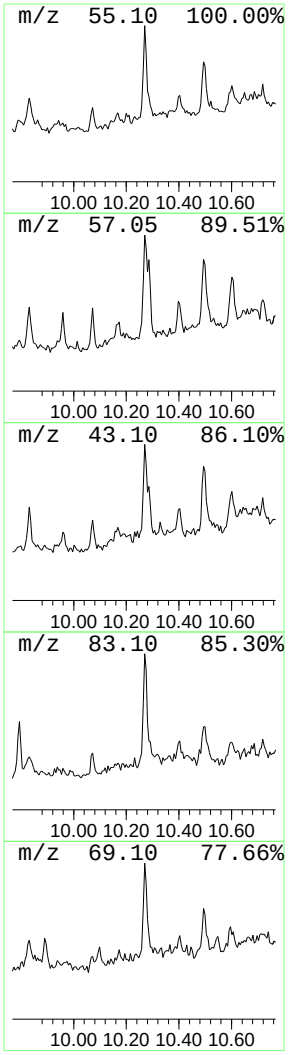
Peak Number 6 Unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.269	4.99 ppm	447320	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetracosane	336	C24H48	000297-03-0	94
2	n-Tetracosanol-1	354	C24H50O	000506-51-4	93
3	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	93
4	Bromoacetic acid, hexadecyl ester	362	C18H35BrO2	005454-48-8	91
5	1-Heptacosanol	396	C27H56O	002004-39-9	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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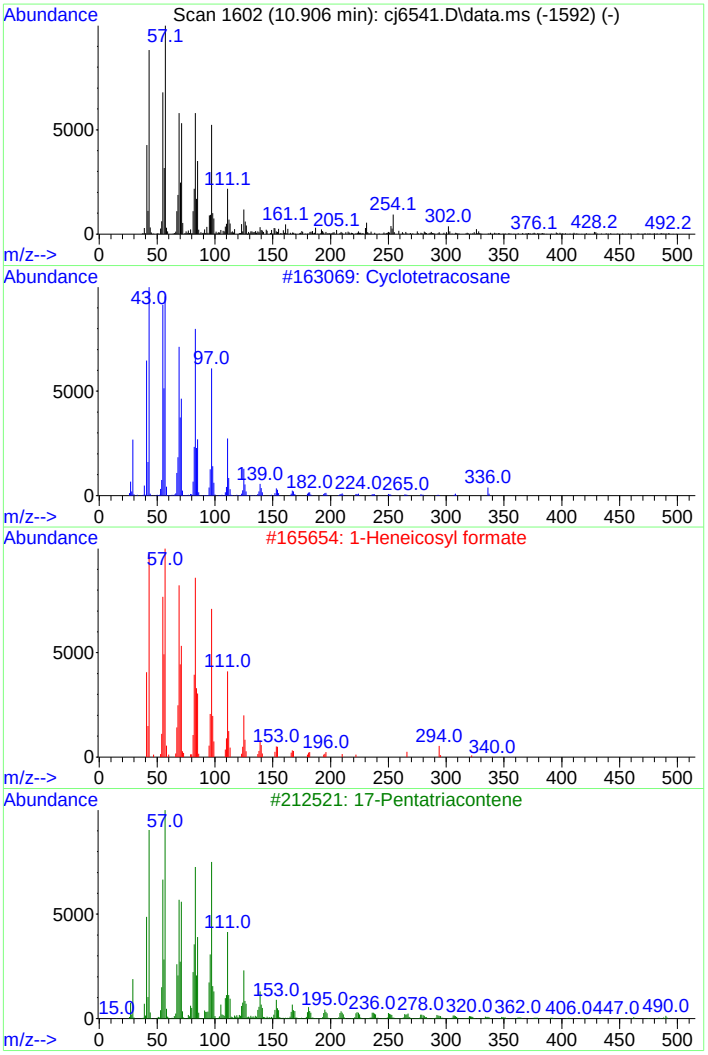
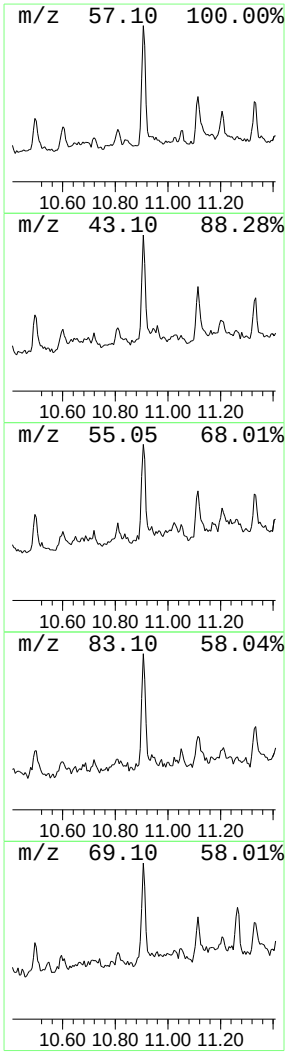
Peak Number 7 Unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.906	9.62 ppm	863050	Chrysene-d12a	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetracosane	336	C24H48	000297-03-0	98
2	1-Heneicosyl formate	340	C22H44O2	077899-03-7	95
3	17-Pentatriacontene	491	C35H70	006971-40-0	91
4	1-Docosene	308	C22H44	001599-67-3	90
5	2-Octadecyl-propane-1,3-diol	328	C21H44O2	005337-61-1	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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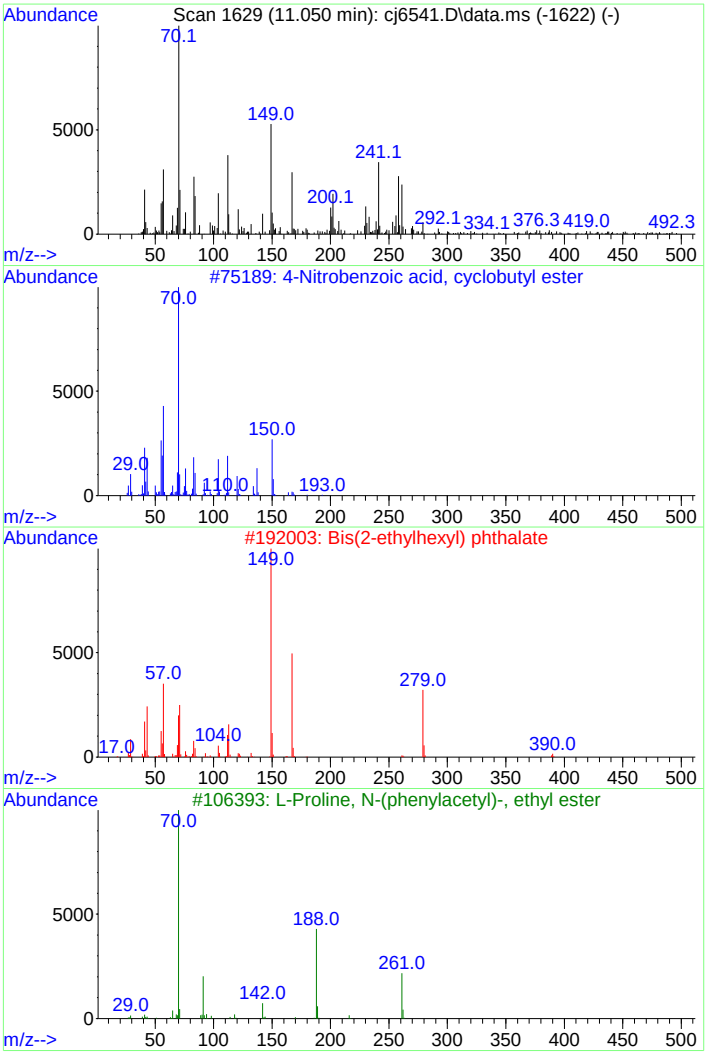
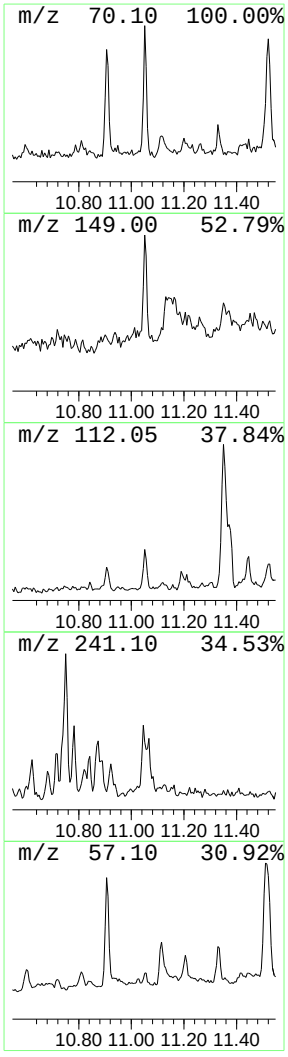
Peak Number 8 Unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.050	4.37 ppm	311045	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Nitrobenzoic acid, cyclobutyl ...	221	C11H11NO4	070335-00-1	27
2	Bis(2-ethylhexyl) phthalate	390	C24H38O4	000117-81-7	25
3	L-Proline, N-(phenylacetyl)-, et...	261	C15H19NO3	1000346-18-9	22
4	Cyclohexaneamine, N-but-2-enylid...	167	C10H17NO	068048-01-1	22
5	2-Undecene, 3-methyl-, (Z)-	168	C12H24	057024-90-5	14





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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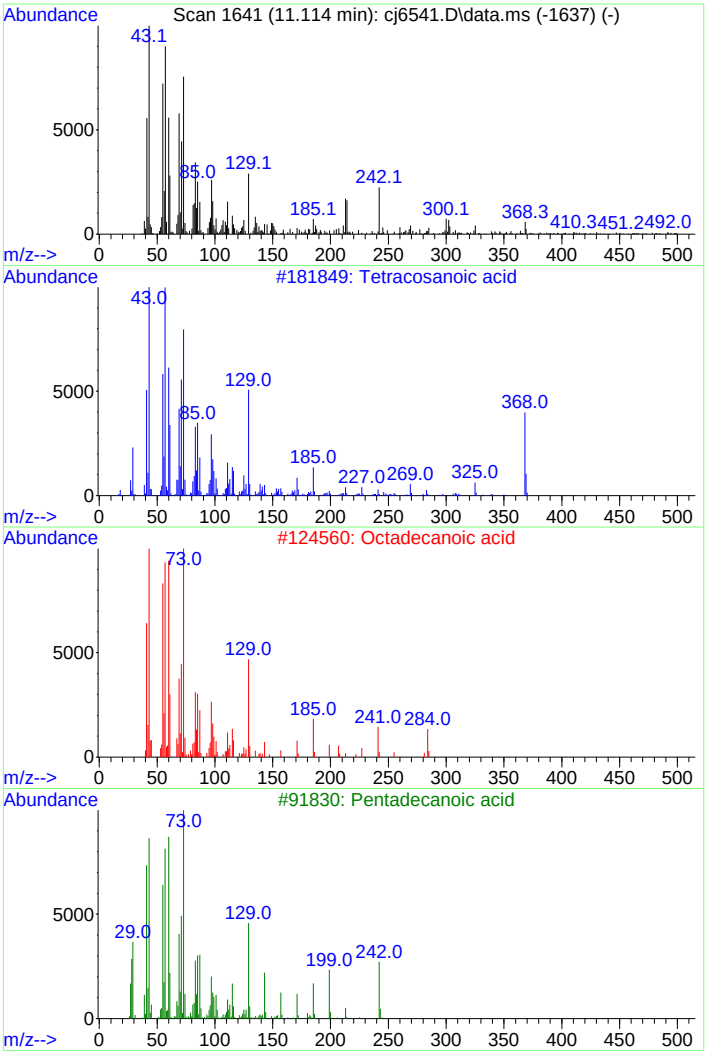
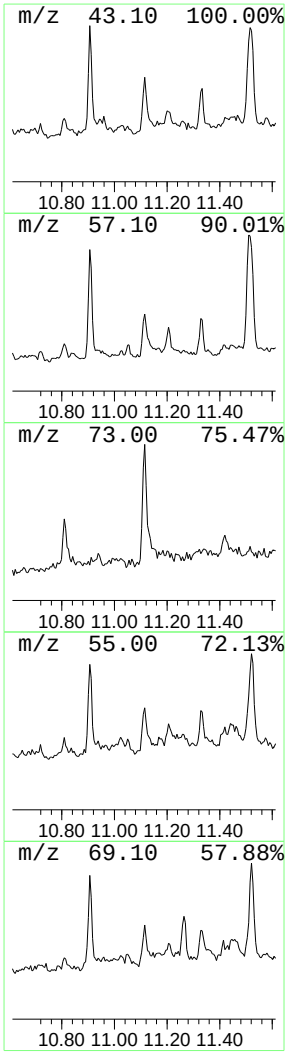
Peak Number 9 Unknown acid Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.114	7.70 ppm	547890	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosanoic acid	368	C24H48O2	000557-59-5	94
2	Octadecanoic acid	284	C18H36O2	000057-11-4	83
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	72
4	Octadecanoic acid	284	C18H36O2	000057-11-4	70
5	Hexacosanoic acid	396	C26H52O2	000506-46-7	68





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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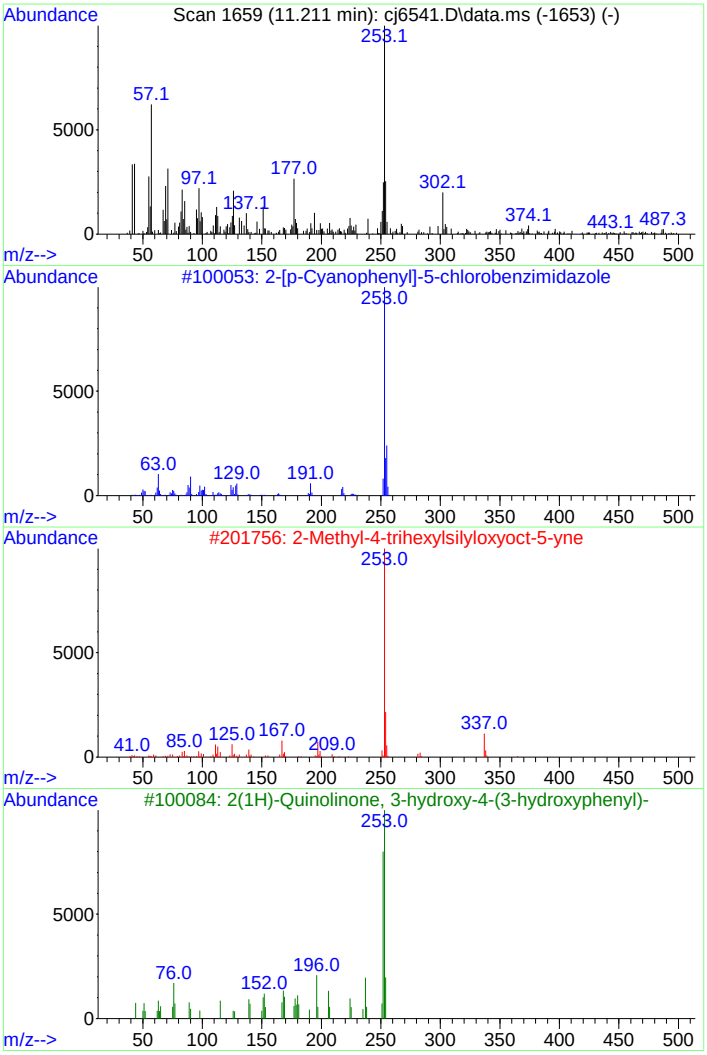
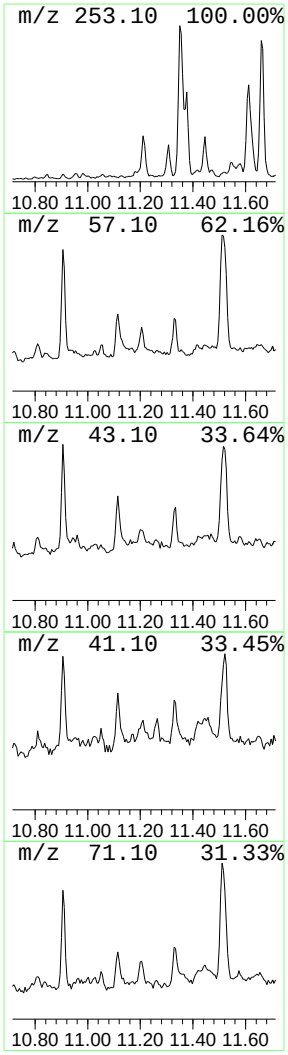
Peak Number 10 Unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.211	7.32 ppm	520975	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-[p-Cyanophenyl]-5-chlorobenzim...	253	C14H8ClN3	146132-86-7	38
2	2-Methyl-4-trihexylsilyloxyoct-5...	422	C27H54OSi	1000299-52-5	38
3	2(1H)-Quinolinone, 3-hydroxy-4-(...	253	C15H11NO3	014484-44-7	38
4	Fumaric acid, 4-octyl undecyl ester	382	C23H42O4	1000339-22-2	37
5	Triamterene	253	C12H11N7	000396-01-0	35





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Acq On : 10 May 2024 01:13 am
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Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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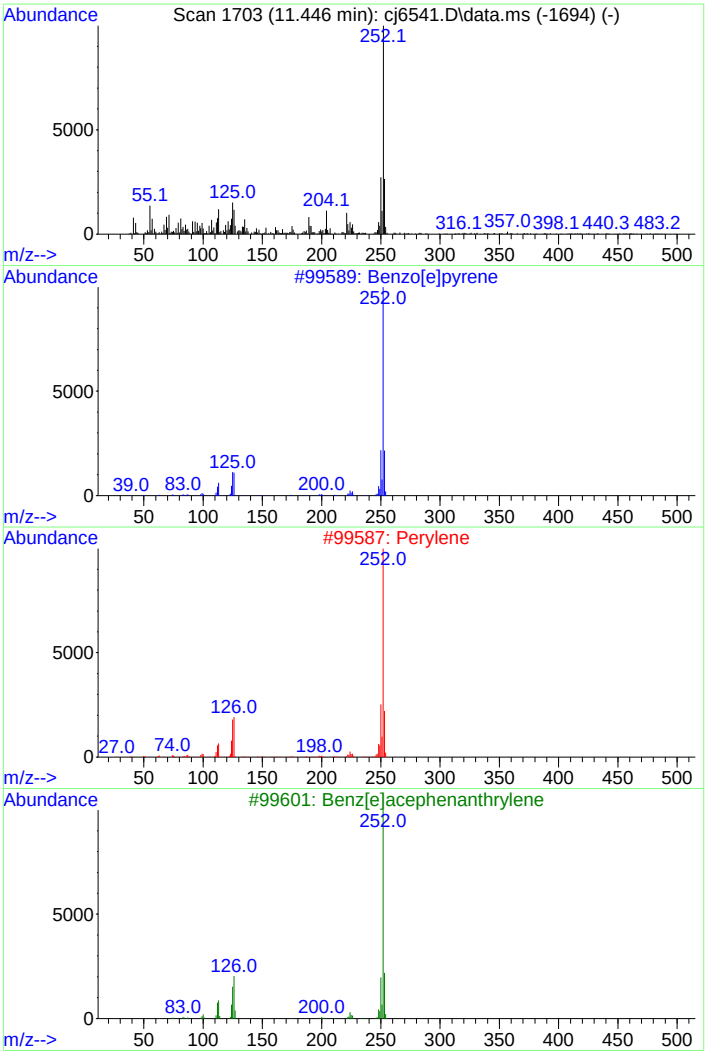
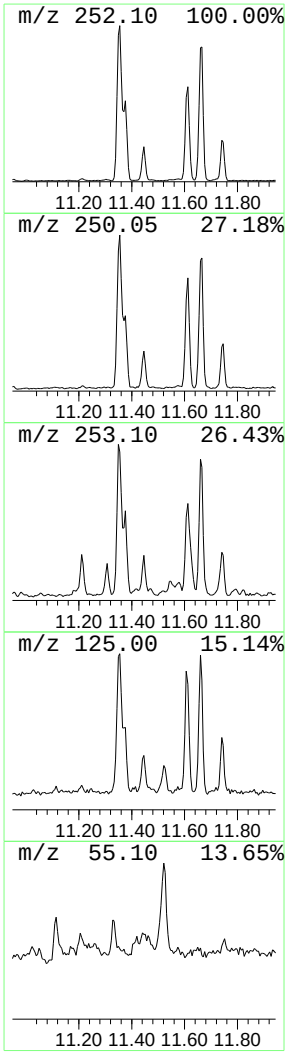
Peak Number 11 Unknown PHA Substance Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.446	17.14 ppm	1219540	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	95
2	Perylene	252	C20H12	000198-55-0	93
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	92





Library Search Compound Report

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Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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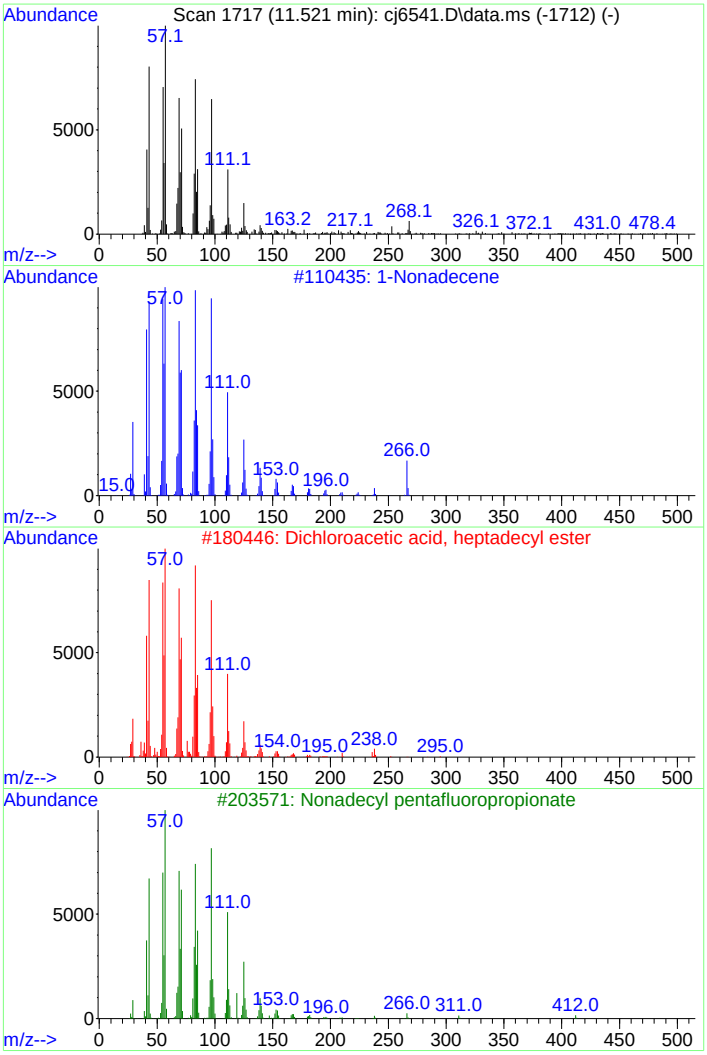
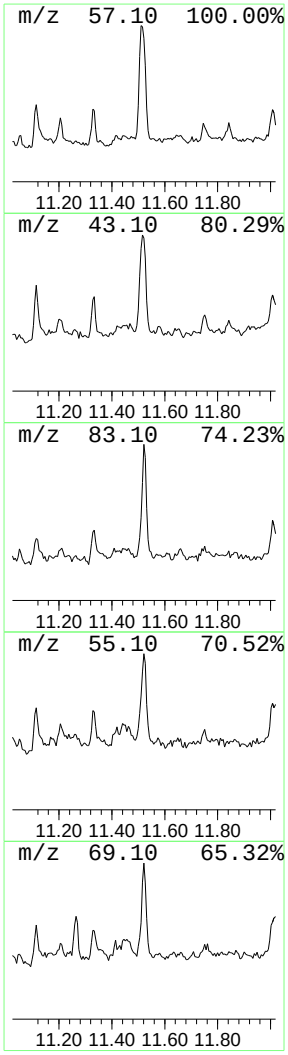
Peak Number 12 Unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.521	13.45 ppm	957014	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Nonadecene	266	C19H38	018435-45-5	91
2	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	91
3	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	91
4	1-Tricosene	322	C23H46	018835-32-0	91
5	Heptafluorobutanoic acid, heptad...	452	C21H35F7O2	1000282-97-3	91





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Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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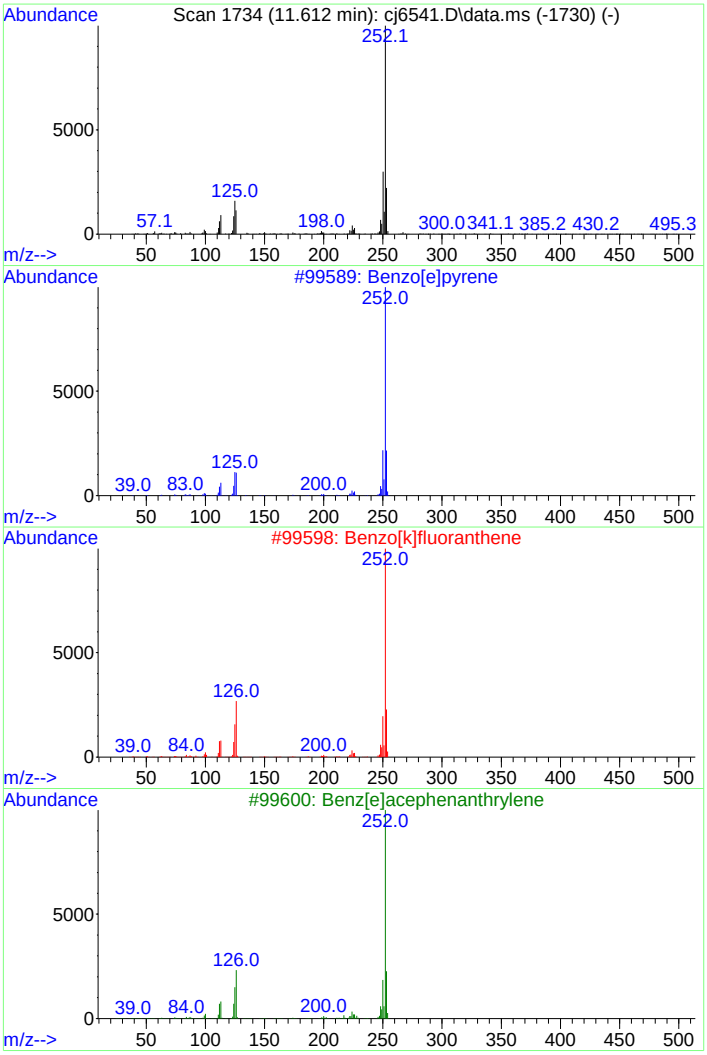
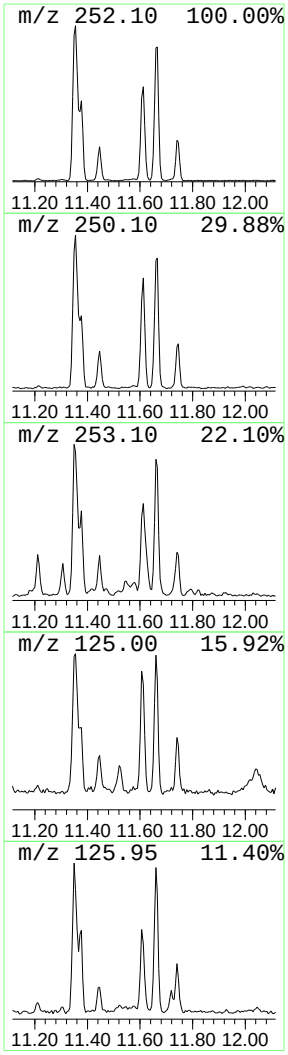
Peak Number 13 Unknown PHA Substance Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.612	8.43 ppm	600020	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90





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Acq On : 10 May 2024 01:13 am
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Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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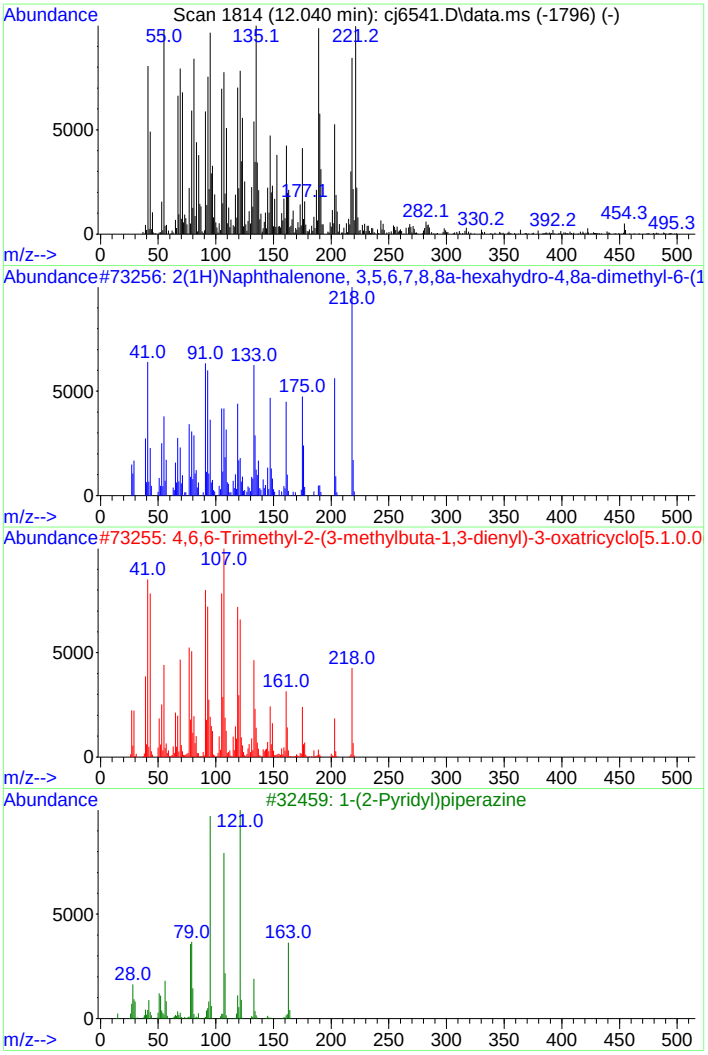
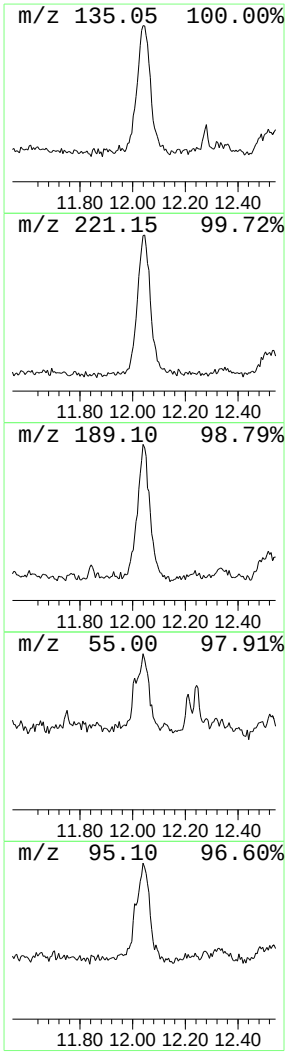
Peak Number 14 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.040	45.03 ppm	3204470	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(1H)Naphthalenone, 3,5,6,7,8,8a...	218	C15H22O	1000188-66-5	46
2	4,6,6-Trimethyl-2-(3-methylbuta-...	218	C15H22O	1000190-22-2	35
3	1-(2-Pyridyl)piperazine	163	C9H13N3	034803-66-2	22
4	2H-Cyclopropa[g]benzofuran, 4,5,...	218	C15H22O	102681-49-2	20
5	3,4-Bis-(methylthio)-quinoline	221	C11H11NS2	074579-34-3	15





Library Search Compound Report

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Acq On : 10 May 2024 01:13 am
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Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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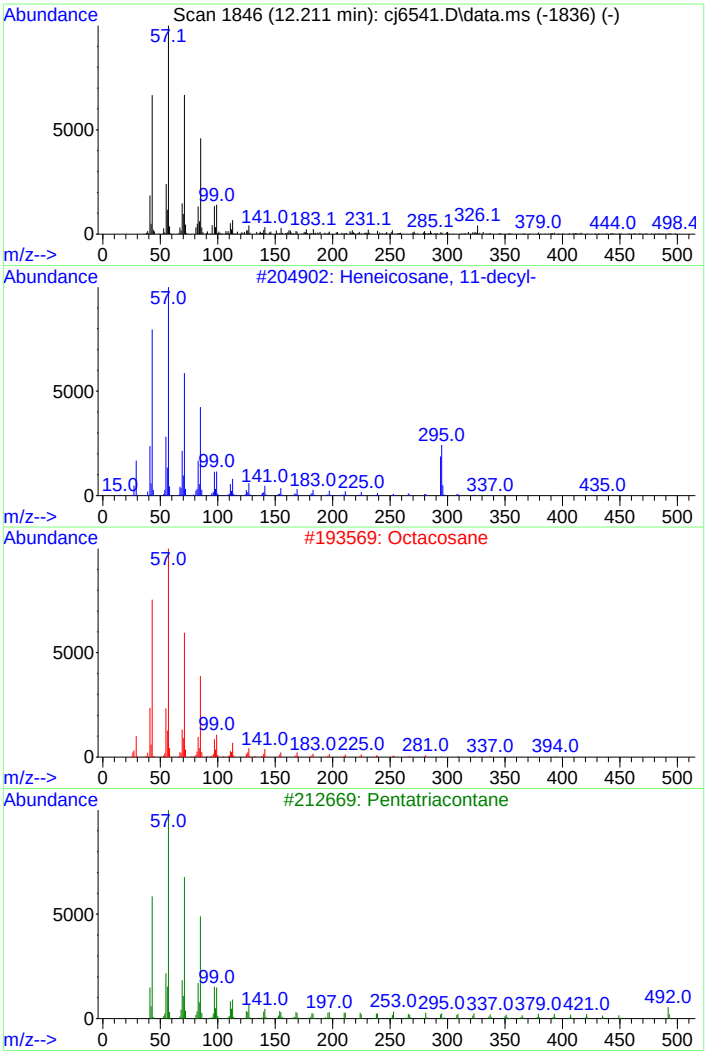
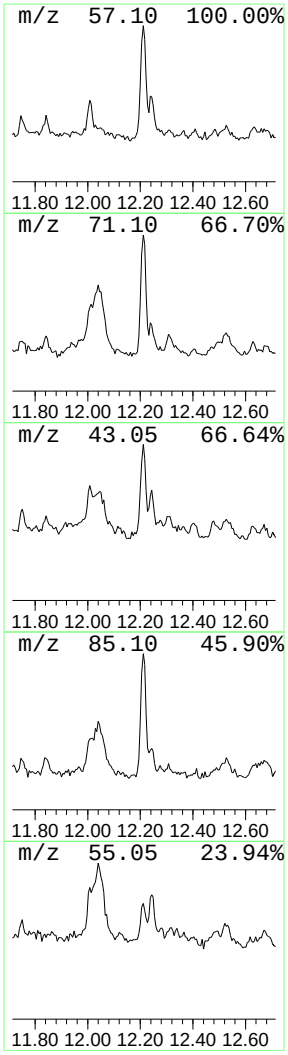
Peak Number 15 Alkane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.211	6.90 ppm	490989	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane, 11-decyl-	437	C31H64	055320-06-4	93
2	Octacosane	394	C28H58	000630-02-4	87
3	Pentatriacontane	493	C35H72	000630-07-9	86
4	Tetratetracontane	619	C44H90	007098-22-8	83
5	Heptacosane	380	C27H56	000593-49-7	83





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Acq On : 10 May 2024 01:13 am
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Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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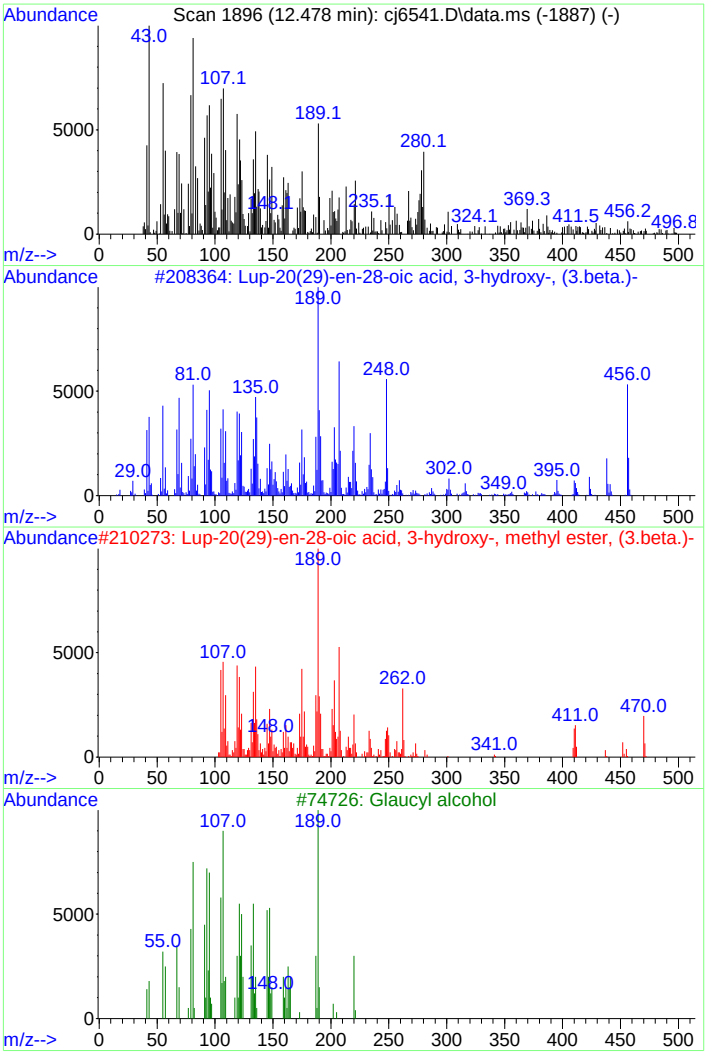
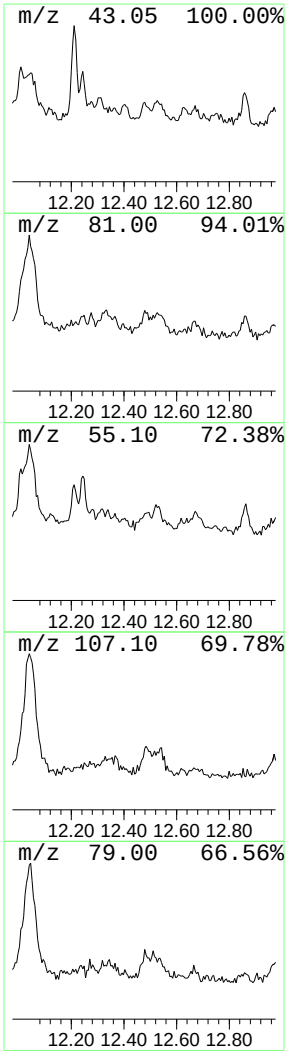
Peak Number 16 Unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.478	5.58 ppm	397295	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Lup-20(29)-en-28-oic acid, 3-hyd...	456	C30H48O3	000472-15-1	49
2	Lup-20(29)-en-28-oic acid, 3-hyd...	470	C31H50O3	002259-06-5	37
3	Glaucyl alcohol	220	C15H24O	087745-32-2	35
4	Cholestane, 4,5-epoxy-, (4.alpha...	386	C27H46O	006079-19-2	35
5	Cholest-4-en-3-ol	386	C27H46O	014597-42-3	22





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Sample : jd87833-14
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ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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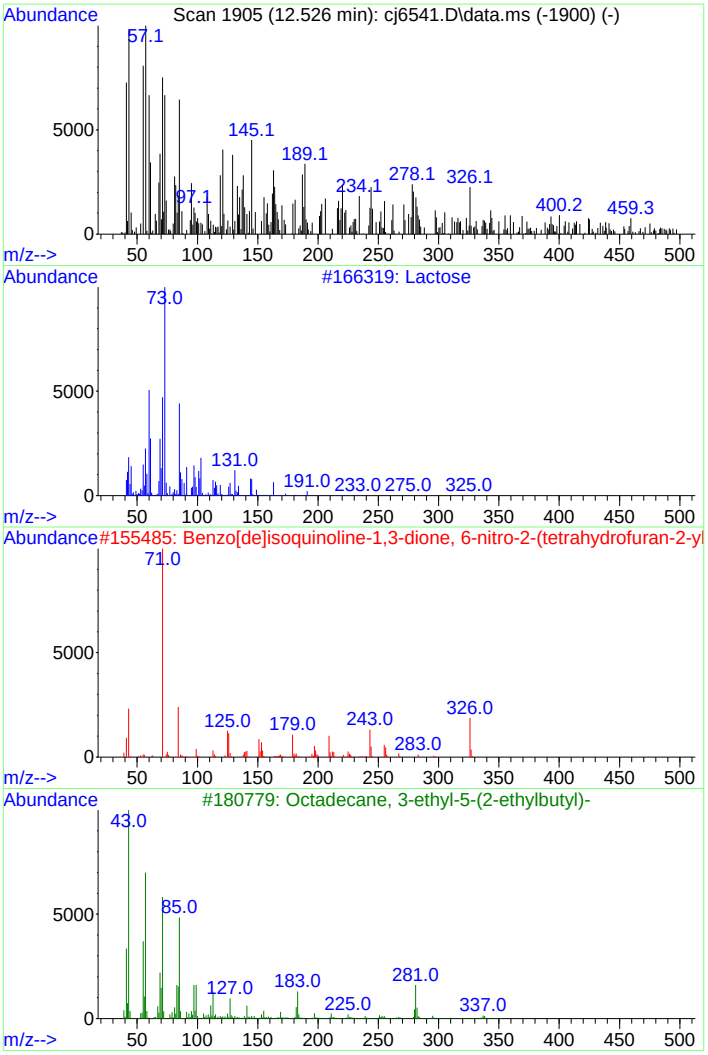
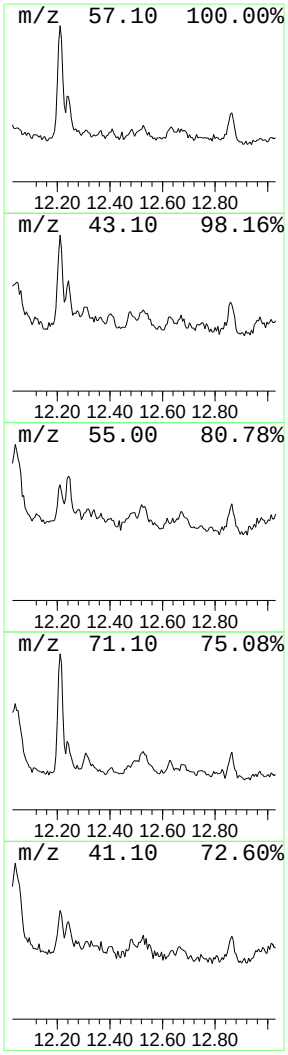
Peak Number 17 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.527	9.20 ppm	655043	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Lactose	342	C12H22O11	000063-42-3	37
2	Benzo[de]isoquinoline-1,3-dione,...	326	C17H14N2O5	1000304-25-5	25
3	Octadecane, 3-ethyl-5-(2-ethylbu...	366	C26H54	055282-12-7	16
4	Oxalic acid, 2-ethylhexyl octade...	454	C28H54O4	1000309-39-9	14
5	Cholest-5-ene, 3-methoxy-, (3.be...	400	C28H48O	001174-92-1	14





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Acq On : 10 May 2024 01:13 am
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Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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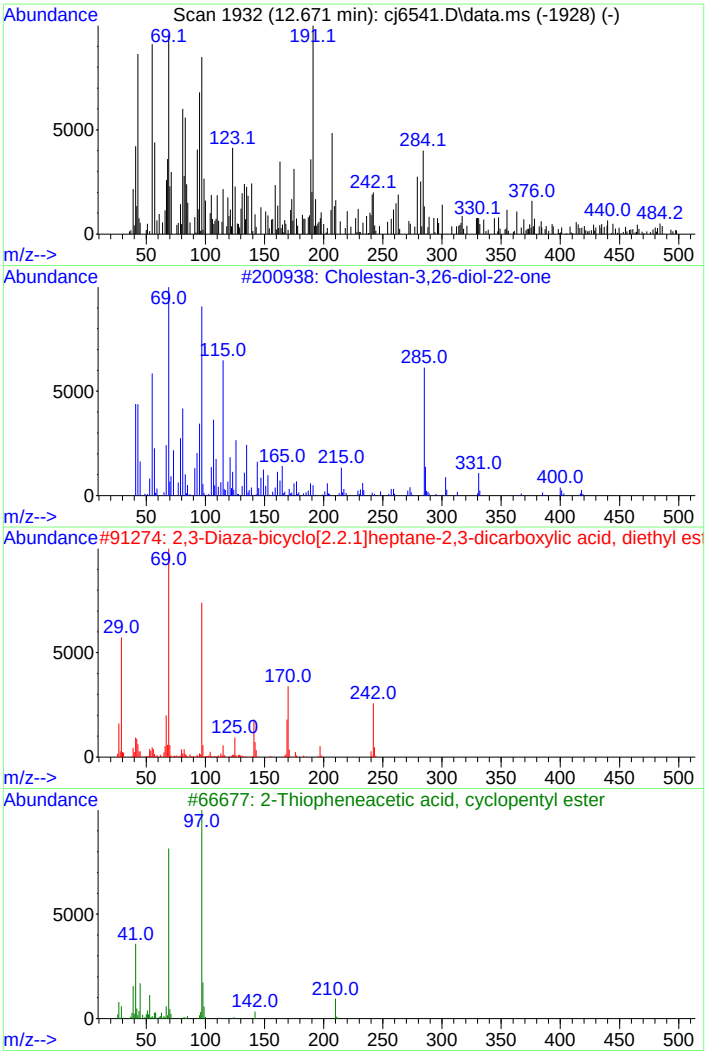
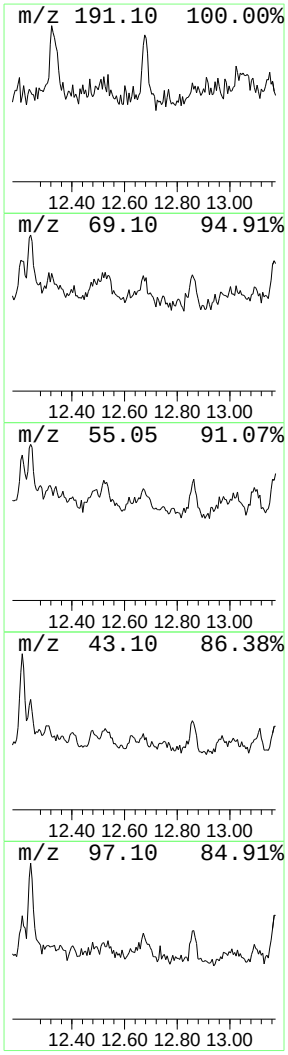
Peak Number 18 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.671	4.73 ppm	336568	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cholestan-3,26-diol-22-one	418	C27H46O3	1000252-39-3	42
2	2,3-Diaza-bicyclo[2.2.1]heptane-...	242	C11H18N2O4	018860-71-4	25
3	2-Thiopheneacetic acid, cyclopen...	210	C11H14O2S	1000278-95-8	22
4	Isoquinoline, 1,2,3,4-tetrahydro...	283	C18H21NO2	036646-87-4	18
5	2-Thiopheneacetic acid, 2-methyl...	198	C10H14O2S	1000278-95-4	10





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ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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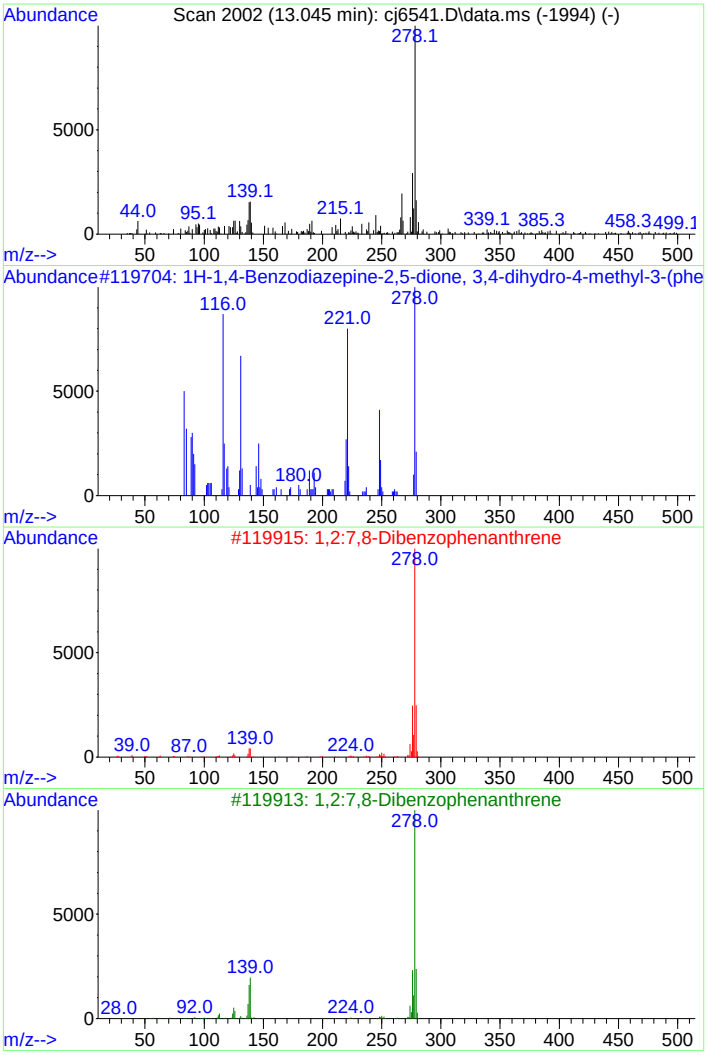
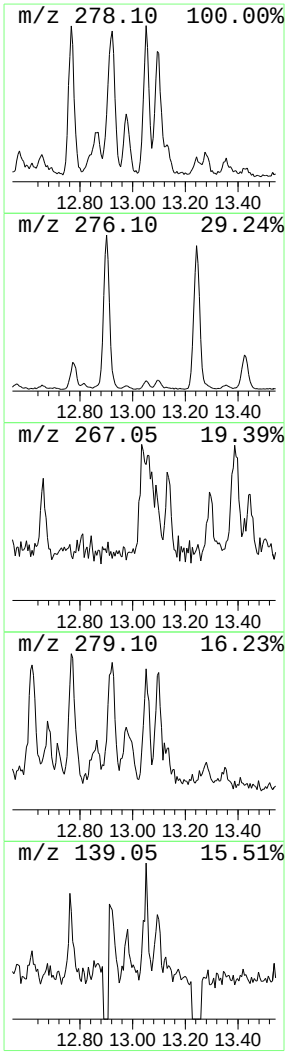
Peak Number 19 Unknown Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.045	6.53 ppm	464480	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-1,4-Benzodiazepine-2,5-dione,...	278	C17H14N2O2	031965-37-4	60
2	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	60
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	55
4	Benzo[b]triphenylene	278	C22H14	000215-58-7	55
5	Benzo[b]triphenylene	278	C22H14	000215-58-7	49





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Sample : jd87833-14
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ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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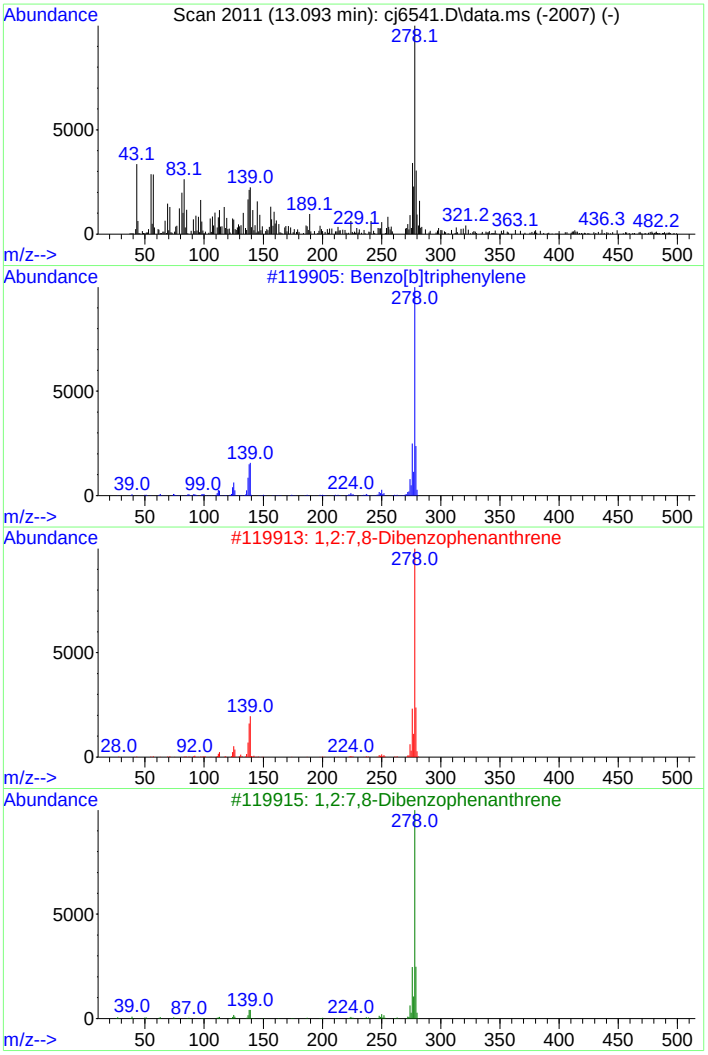
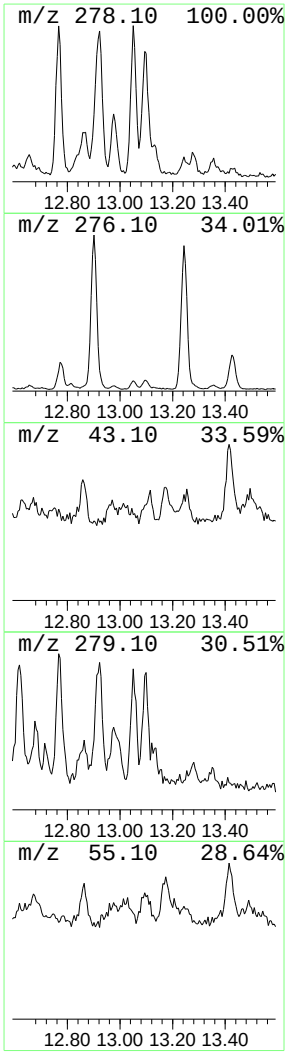
Peak Number 20 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.093	6.59 ppm	468783	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	70
2	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	70
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	62
4	Benzo[b]triphenylene	278	C22H14	000215-58-7	60
5	Pentacene	278	C22H14	000135-48-8	58





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

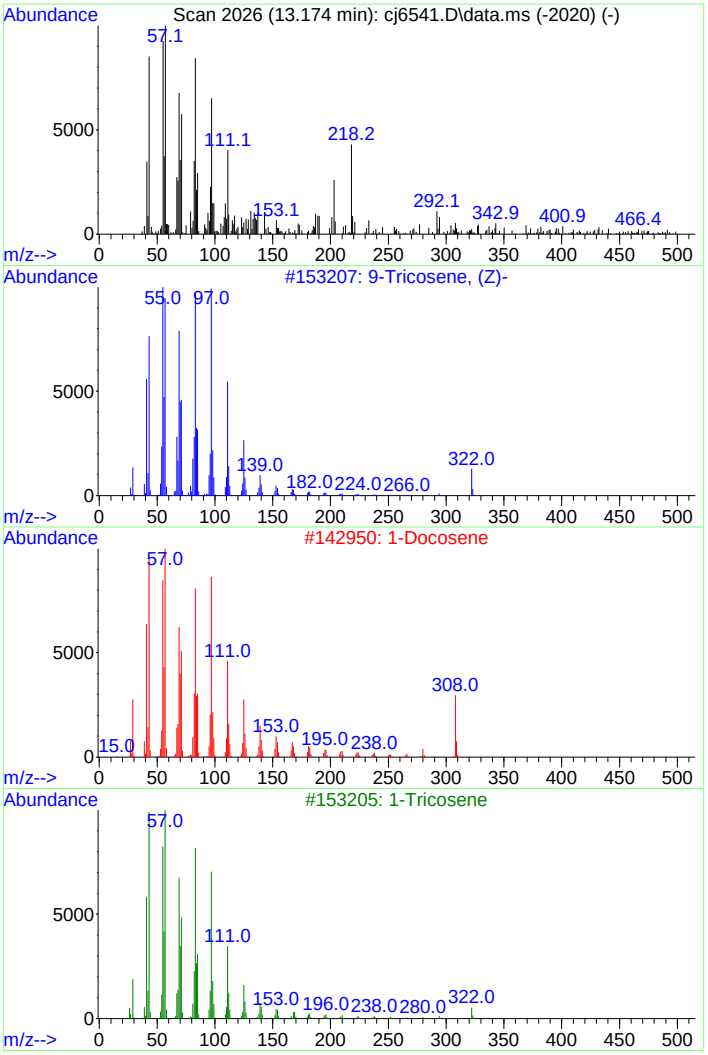
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

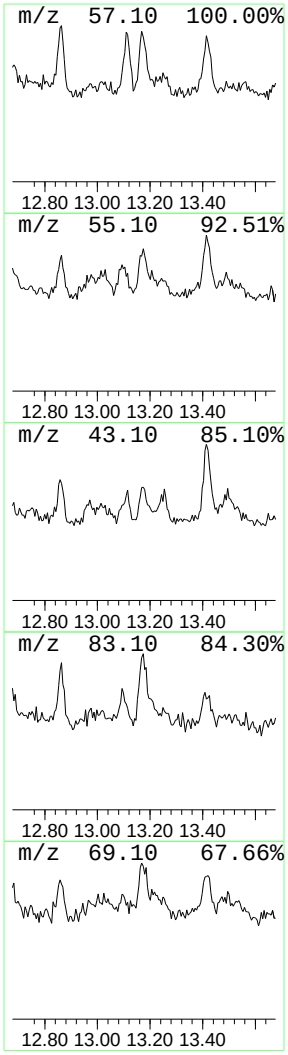
****

Peak Number 21 Alkene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.174	6.50 ppm	462428	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Tricosene, (Z)-	322	C23H46	027519-02-4	93
2	1-Docosene	308	C22H44	001599-67-3	92
3	1-Tricosene	322	C23H46	018835-32-0	91
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	89
5	10-Heneicosene (c,t)	294	C21H42	095008-11-0	83





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

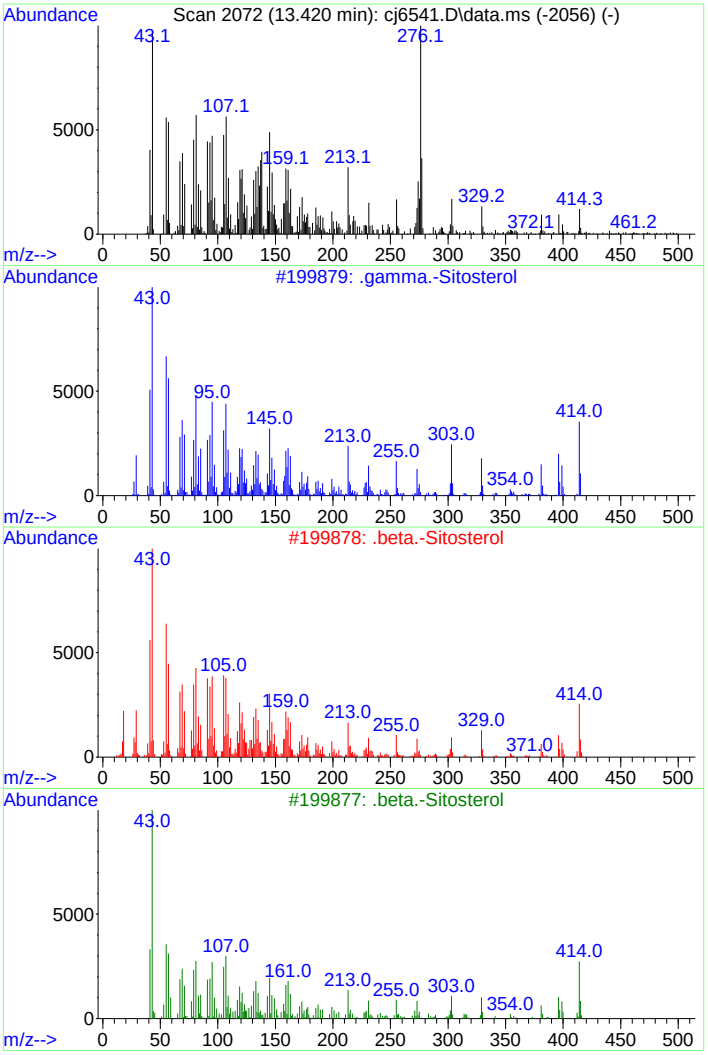
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

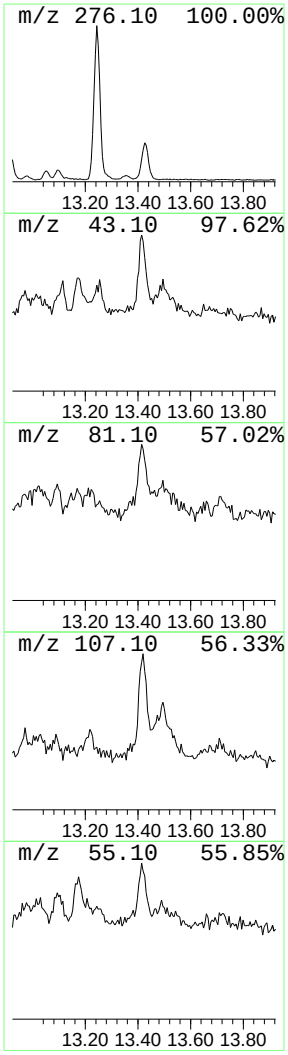
****

Peak Number 22 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.420	17.88 ppm	1272620	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	70
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	64
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	53
4	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	41
5	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	41





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

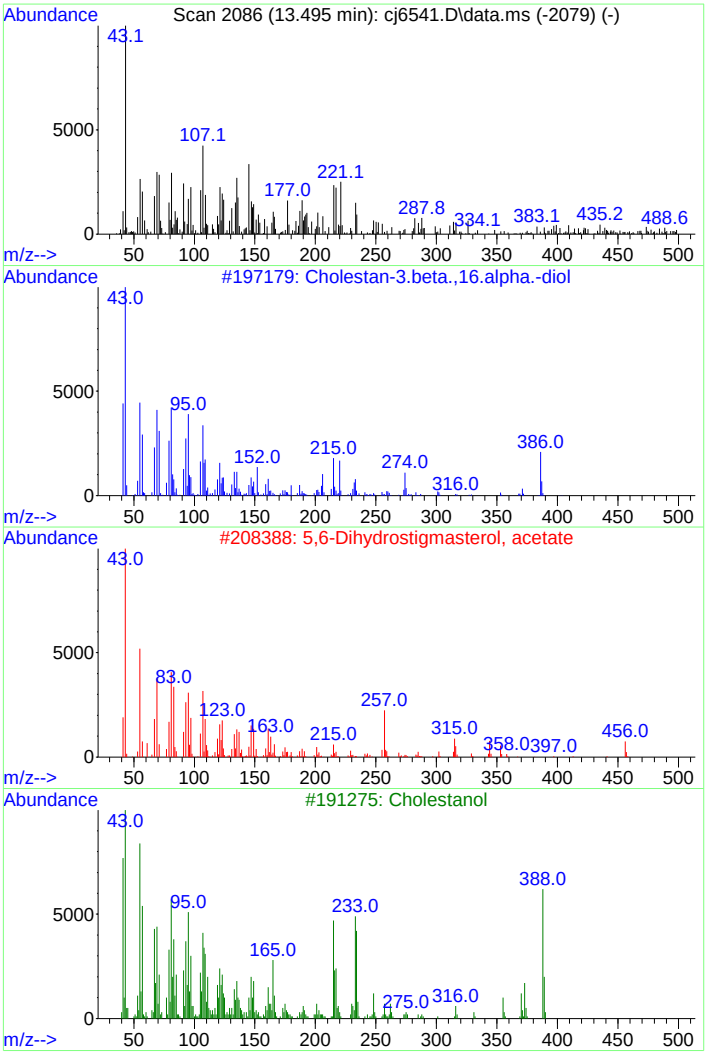
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

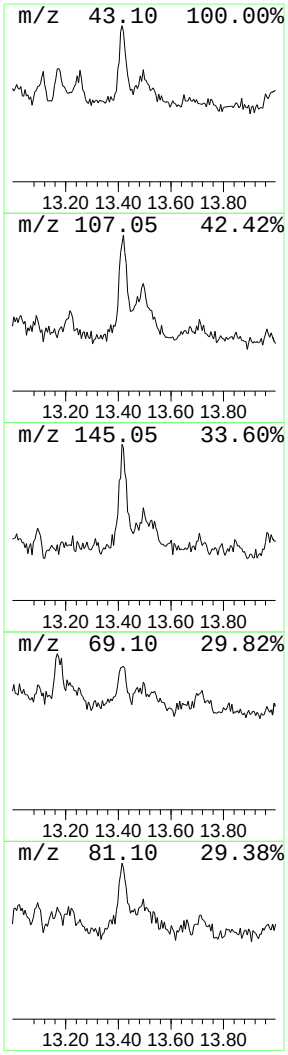
****

Peak Number 23 Unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.495	11.55 ppm	821888	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cholestan-3.beta.,16.alpha.-diol	404	C27H48O2	1000252-39-7	25
2	5,6-Dihydrostigmasterol, acetate	456	C31H52O2	005405-37-8	10
3	Cholestanol	388	C27H48O	000080-97-7	10
4	Bronopol	199	C3H6BrNO4	000052-51-7	10
5	Benzal diacetate	208	C11H12O4	000581-55-5	10





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6541.D
Acq On : 10 May 2024 01:13 am
Operator : rocquans
Sample : jd87833-14
Misc : op54460,ecj297,30.2,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.252	9.1	ppm	446281	2	4.669	1958690	40.0
Phenanthrene, m...	8.322	4.7	ppm	328204	8	7.873	2823670	40.0
n-Hexadecanoic ...	8.370	7.8	ppm	550516	8	7.873	2823670	40.0
4H-Cyclopenta[d...	8.424	5.7	ppm	401186	8	7.873	2823670	40.0
Unknown acid	9.060	9.7	ppm	684111	8	7.873	2823670	40.0
Unknown	10.269	5.0	ppm	447320	9	10.366	3587360	40.0
Unknown	10.906	9.6	ppm	863050	10	10.366	3587360	40.0
Unknown	11.050	4.4	ppm	311045	11	11.719	2846740	40.0
Unknown acid	11.114	7.7	ppm	547890	11	11.719	2846740	40.0
Unknown	11.211	7.3	ppm	520975	11	11.719	2846740	40.0
Unknown PHA Sub...	11.446	17.1	ppm	1219540	11	11.719	2846740	40.0
Unknown	11.521	13.4	ppm	957014	11	11.719	2846740	40.0
Unknown PHA Sub...	11.612	8.4	ppm	600020	11	11.719	2846740	40.0
Unknown	12.040	45.0	ppm	3204470	11	11.719	2846740	40.0
Alkane	12.211	6.9	ppm	490989	11	11.719	2846740	40.0
Unknown	12.478	5.6	ppm	397295	11	11.719	2846740	40.0
Unknown	12.527	9.2	ppm	655043	11	11.719	2846740	40.0
Unknown	12.671	4.7	ppm	336568	11	11.719	2846740	40.0
Unknown	13.045	6.5	ppm	464480	11	11.719	2846740	40.0
Unknown	13.093	6.6	ppm	468783	11	11.719	2846740	40.0
Alkene	13.174	6.5	ppm	462428	11	11.719	2846740	40.0
Unknown	13.420	17.9	ppm	1272620	11	11.719	2846740	40.0
Unknown	13.495	11.6	ppm	821888	11	11.719	2846740	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Ying Li
05/13/24 16:17

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15 Inst : GCMSCJ
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Time: May 10 20:17:37 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

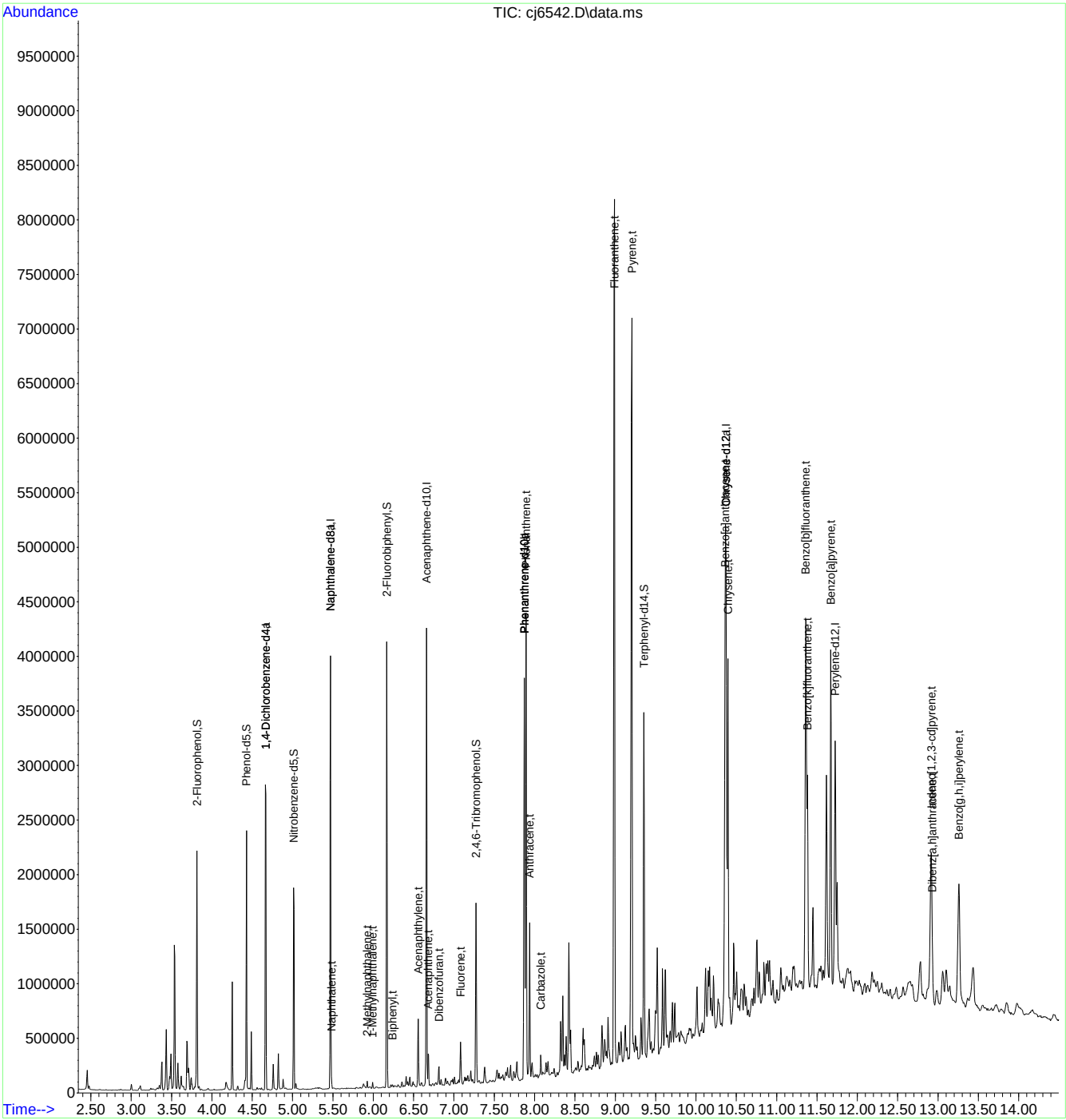
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.669	152	327409	40.00	ppm	0.00
24) Naphthalene-d8	5.472	136	1164205	40.00	ppm	0.00
46) Acenaphthene-d10	6.659	164	641642	40.00	ppm	0.00
69) Phenanthrene-d10	7.873	188	1128523	40.00	ppm	0.00
84) Chrysene-d12	10.371	240	807431	40.00	ppm	0.00
93) Perylene-d12	11.724	264	826260	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.669	152	327409	40.00	ppm	0.00
105) Phenanthrene-d10a	7.873	188	1128523	40.00	ppm	0.00
107) Naphthalene-d8a	5.472	136	1164205	40.00	ppm	0.00
109) Phenanthrene-d10b	7.873	188	1128523	40.00	ppm	0.00
112) Chrysene-d12a	10.371	240	807431	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.813	112	347241	36.90	ppm	0.02
Spiked Amount 50.000			Recovery = 73.80%			
8) Phenol-d5	4.429	99	469581	38.69	ppm	0.01
Spiked Amount 50.000			Recovery = 77.38%			
25) Nitrobenzene-d5	5.012	82	448775	37.65	ppm	0.00
Spiked Amount 50.000			Recovery = 75.30%			
51) 2-Fluorobiphenyl	6.167	172	831975	41.21	ppm	0.00
Spiked Amount 50.000			Recovery = 82.42%			
74) 2,4,6-Tribromophenol	7.274	330	114642	46.33	ppm	0.00
Spiked Amount 50.000			Recovery = 92.66%			
87) Terphenyl-d14	9.355	244	815448	40.88	ppm	0.00
Spiked Amount 50.000			Recovery = 81.76%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
38) Naphthalene	5.482	128	25852	0.9270	ppm	98
44) 2-Methylnaphthalene	5.926	141	8986	0.5434	ppm	87
45) 1-Methylnaphthalene	5.990	141	9865	0.6240	ppm	98
53) Biphenyl	6.236	154	6087	0.2761	ppm	95
56) Acenaphthylene	6.557	152	204328	8.2104	ppm	99
59) Acenaphthene	6.680	153	58411	3.3004	ppm	96
62) Dibenzofuran	6.814	168	43917	1.7882	ppm	96
66) Fluorene	7.082	166	86737m	4.4707	ppm	
78) Phenanthrene	7.895	178	1212904	44.4723	ppm	99
79) Anthracene	7.937	178	445107	16.2991	ppm	98
80) Carbazole	8.076	167	59773	2.3489	ppm	99
82) Fluoranthene	8.991	202	3033141	102.7265	ppm	99
86) Pyrene	9.205	202	2650487	96.5234	ppm	99
89) Benzo[a]anthracene	10.360	228	1364196	52.5480	ppm	96
91) Chrysene	10.398	228	1158041	48.3479	ppm	98
95) Benzo[b]fluoranthene	11.360	252	1637238m	65.5939	ppm	
96) Benzo[k]fluoranthene	11.382	252	459431m	20.4555	ppm	
97) Benzo[a]pyrene	11.671	252	1165454	56.4039	ppm	98
98) Indeno[1,2,3-cd]pyrene	12.917	276	751360	30.0792	ppm	100
100) Dibenz[a,h]anthracene	12.928	278	187933	9.4157	ppm	94
102) Benzo[g,h,i]perylene	13.259	276	687385	35.4108	ppm	98

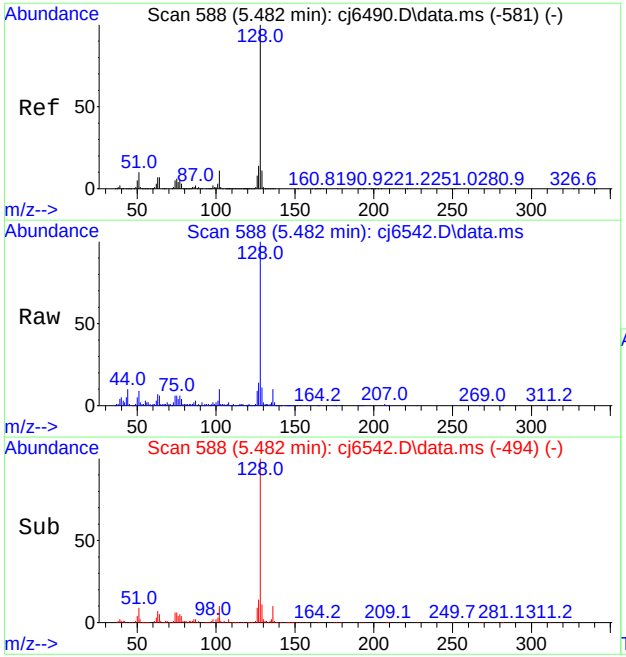
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15 Inst : GCMSCJ
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Time: May 10 20:17:37 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

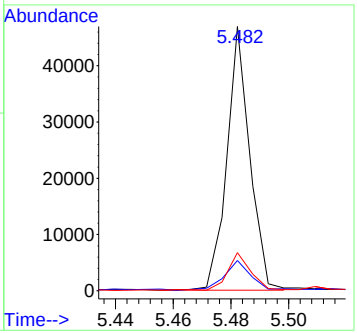


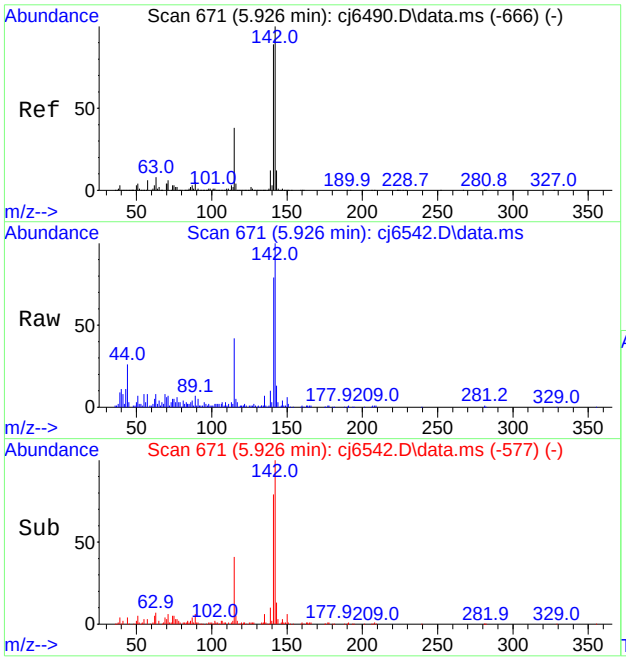


#38
Naphthalene
Concen: 0.9270 ppm
RT: 5.482 min Scan# 588
Delta R.T. 0.000 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:128 Resp: 25852

Ion	Ratio	Lower	Upper
128	100		
129	10.8	0.0	41.4
127	14.2	0.0	43.3

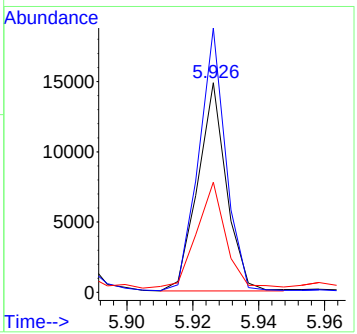


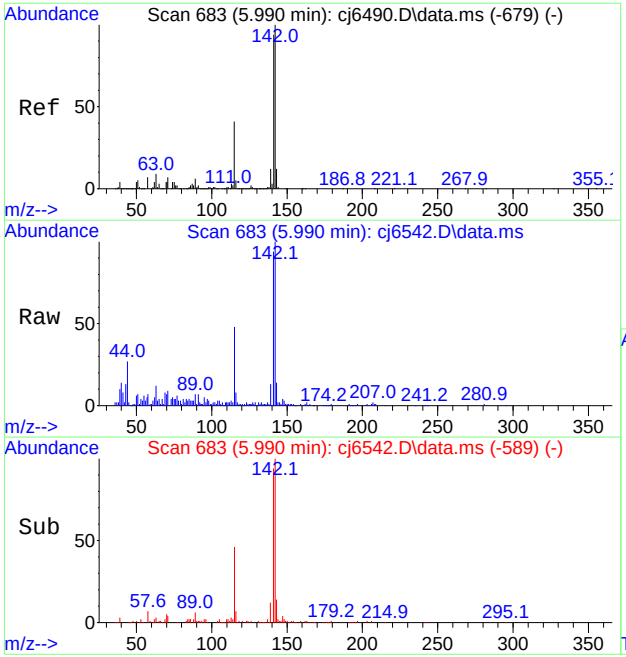


#44
2-Methylnaphthalene
Concen: 0.5434 ppm
RT: 5.926 min Scan# 671
Delta R.T. 0.000 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:141 Resp: 8986

Ion	Ratio	Lower	Upper
141	100		
142	127.1	82.7	142.7
115	50.6	12.4	72.4

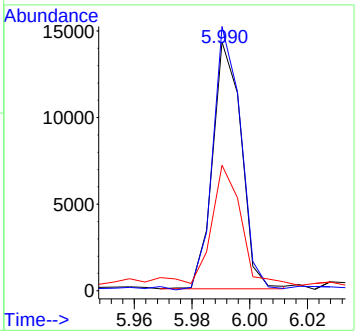


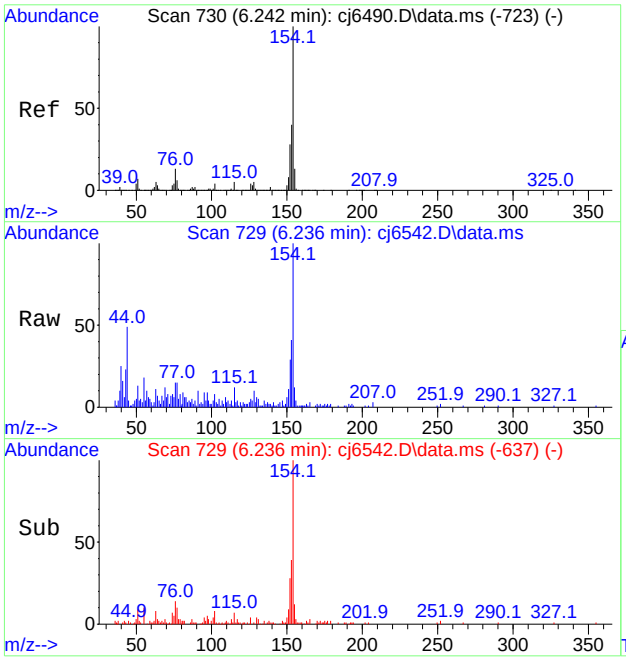


#45
1-Methylnaphthalene
Concen: 0.6240 ppm
RT: 5.990 min Scan# 683
Delta R.T. 0.000 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:141 Resp: 9865

Ion	Ratio	Lower	Upper
141	100		
142	106.2	77.0	137.0
115	46.6	14.2	74.2

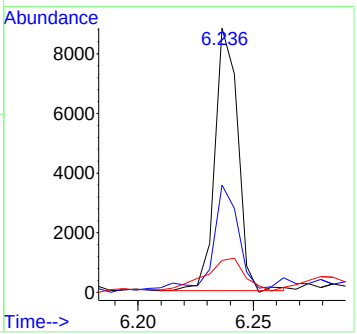


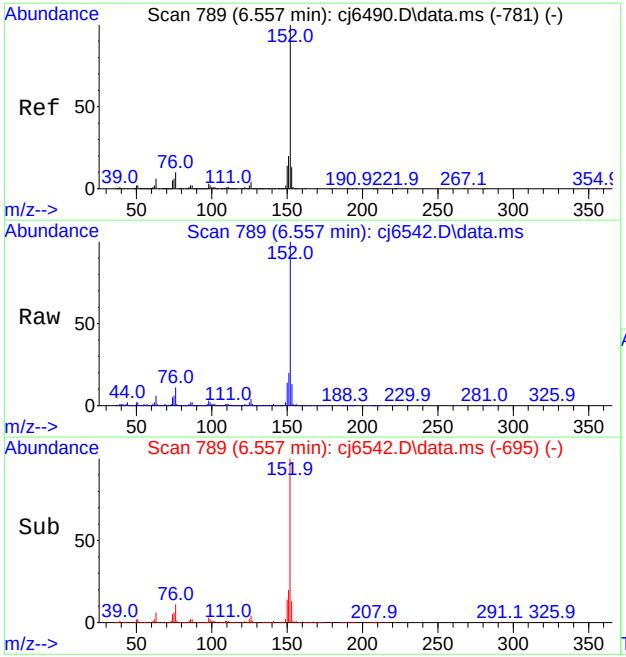


#53
Biphenyl
Concen: 0.2761 ppm
RT: 6.236 min Scan# 729
Delta R.T. -0.006 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:154 Resp: 6087

Ion	Ratio	Lower	Upper
154	100		
153	37.4	10.5	70.5
155	10.8	0.0	42.8

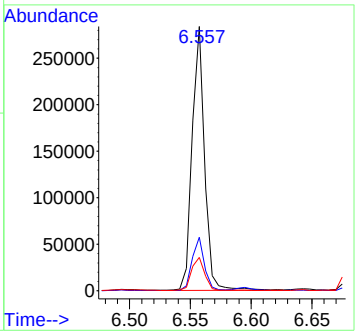


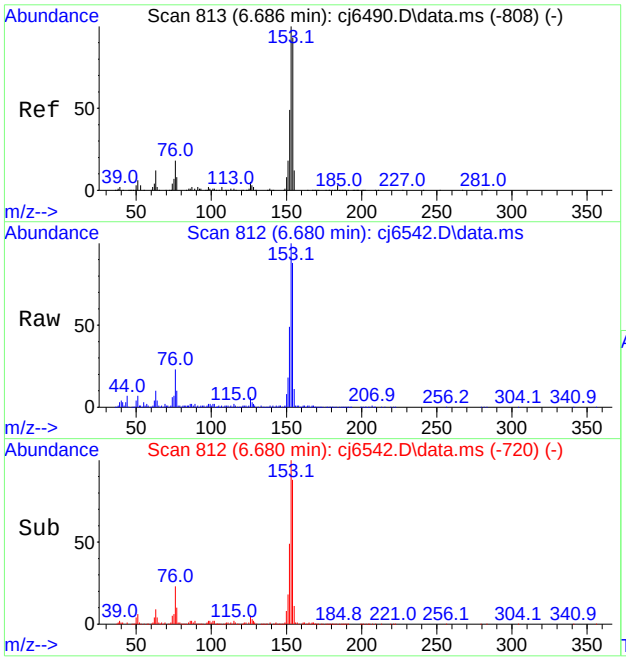


#56
Acenaphthylene
Concen: 8.2104 ppm
RT: 6.557 min Scan# 789
Delta R.T. 0.000 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:152 Resp: 204328

Ion	Ratio	Lower	Upper
152	100		
151	20.1	0.0	50.3
153	12.5	0.0	43.4

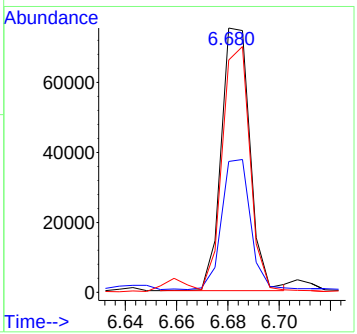


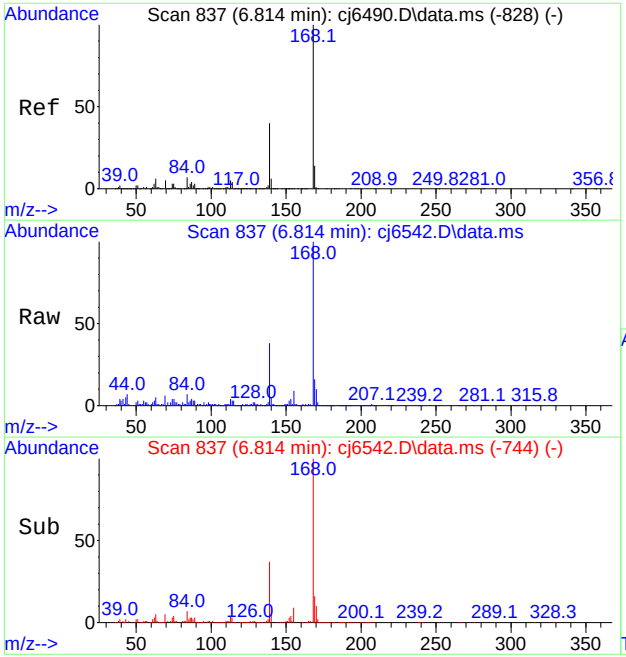


#59
Acenaphthene
Concen: 3.3004 ppm
RT: 6.680 min Scan# 812
Delta R.T. -0.006 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:153 Resp: 58411

Ion	Ratio	Lower	Upper
153	100		
152	48.9	18.8	78.8
154	87.8	62.9	122.9

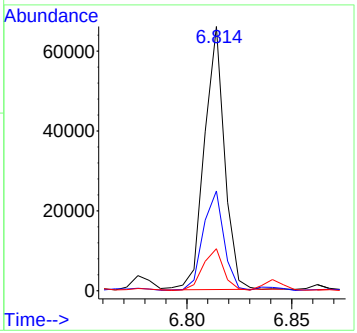


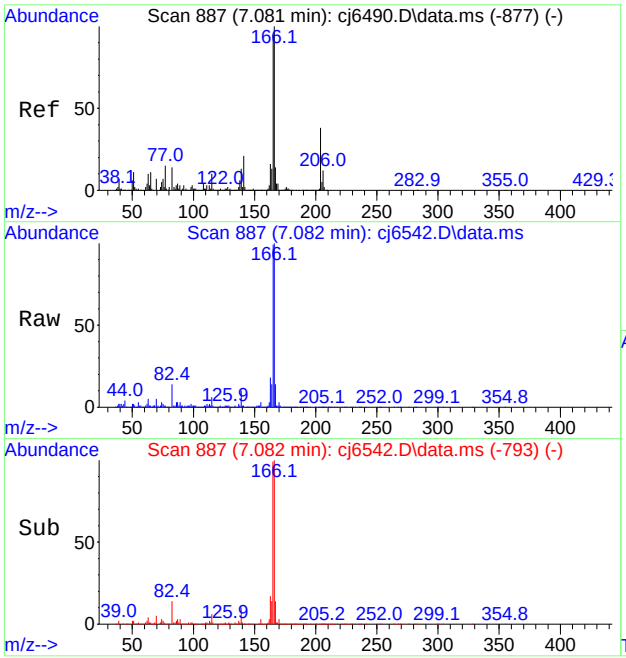


#62
Dibenzofuran
Concen: 1.7882 ppm
RT: 6.814 min Scan# 837
Delta R.T. 0.000 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:168 Resp: 43917

Ion	Ratio	Lower	Upper
168	100		
139	37.5	10.0	70.0
169	14.7	0.0	43.7

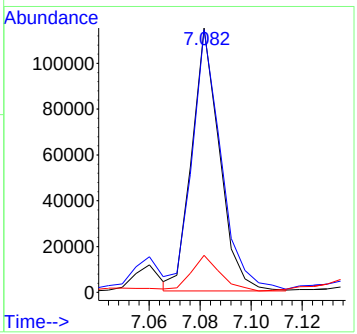


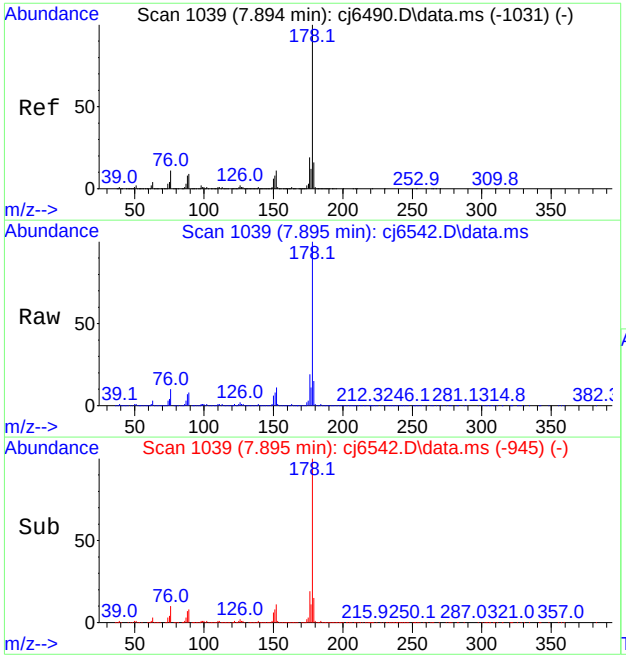


#66
Fluorene
Concen: 4.4707 ppm m
RT: 7.082 min Scan# 887
Delta R.T. 0.000 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:166 Resp: 86737

Ion	Ratio	Lower	Upper
166	100		
165	99.3	65.4	125.4
167	14.1	0.0	43.8

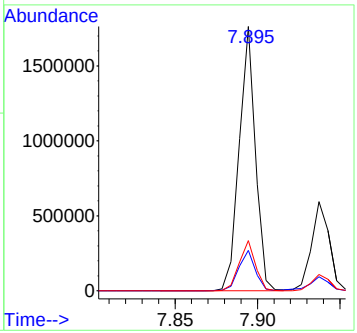


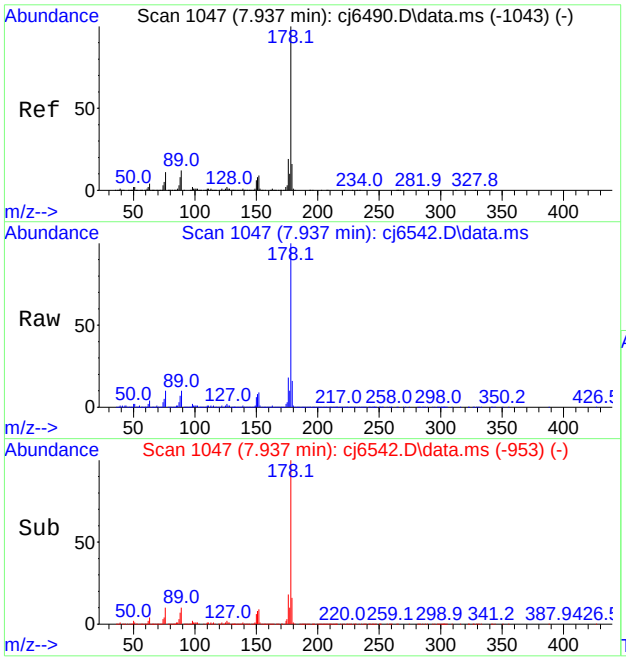


#78
Phenanthrene
Concen: 44.4723 ppm
RT: 7.895 min Scan# 1039
Delta R.T. 0.001 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:178 Resp: 1212904

Ion	Ratio	Lower	Upper
178	100		
179	15.2	0.0	45.5
176	18.9	0.0	49.2

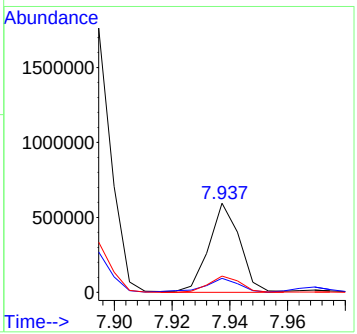


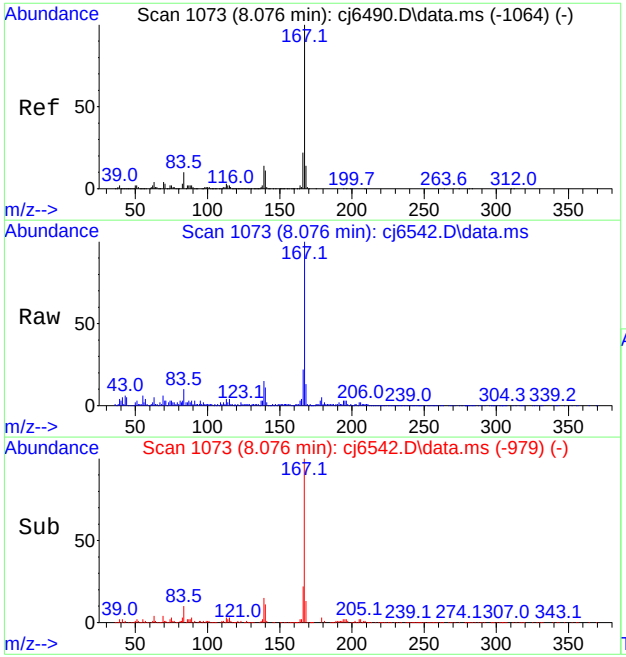


#79
Anthracene
Concen: 16.2991 ppm
RT: 7.937 min Scan# 1047
Delta R.T. 0.000 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:178 Resp: 445107

Ion	Ratio	Lower	Upper
178	100		
179	14.5	0.0	46.1
176	18.2	0.0	48.7

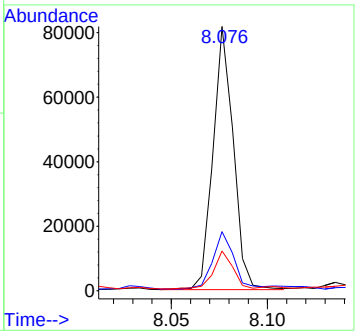


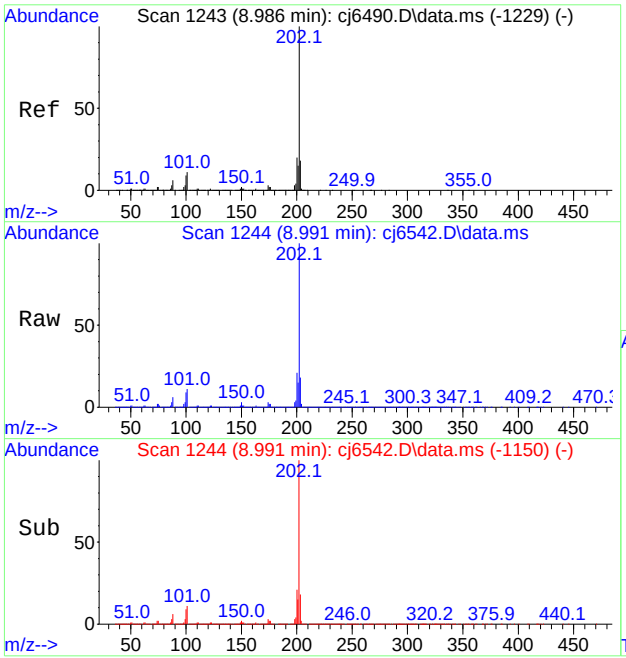


#80
Carbazole
Concen: 2.3489 ppm
RT: 8.076 min Scan# 1073
Delta R.T. 0.000 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:167 Resp: 59773

Ion	Ratio	Lower	Upper
167	100		
166	21.4	0.0	51.7
139	14.3	0.0	43.8

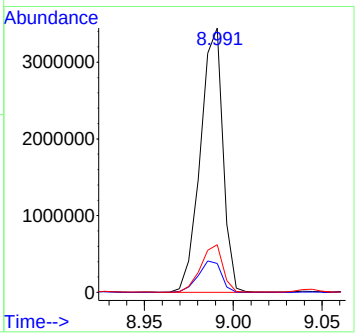


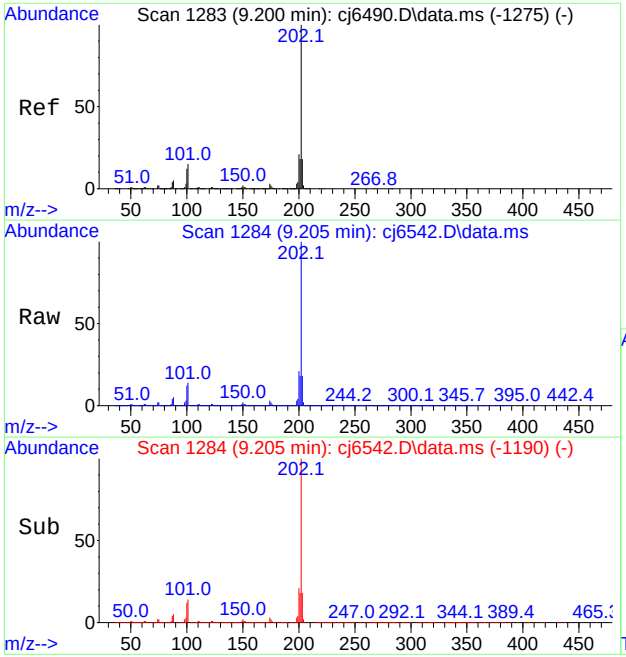


#82
Fluoranthene
Concen: 102.7265 ppm
RT: 8.991 min Scan# 1244
Delta R.T. 0.005 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:202 Resp: 3033141

Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	41.4
203	18.0	0.0	47.6

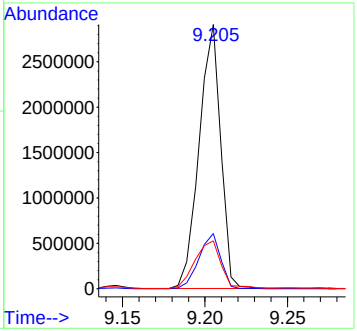


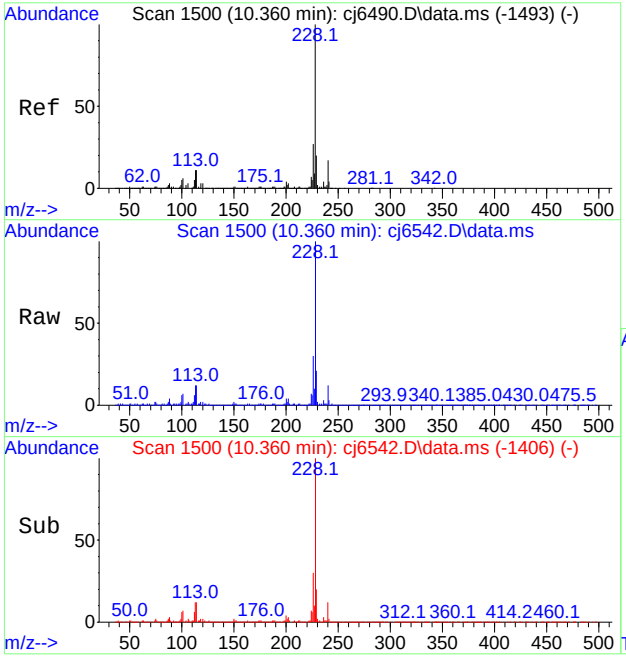


#86
Pyrene
Concen: 96.5234 ppm
RT: 9.205 min Scan# 1284
Delta R.T. 0.005 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:202 Resp: 2650487

Ion	Ratio	Lower	Upper
202	100		
200	20.9	0.0	51.4
203	18.0	0.0	47.8

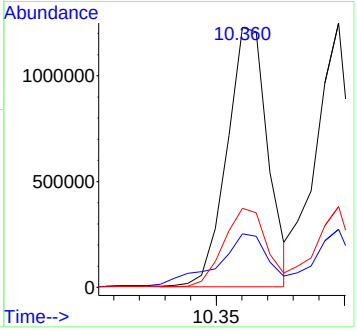


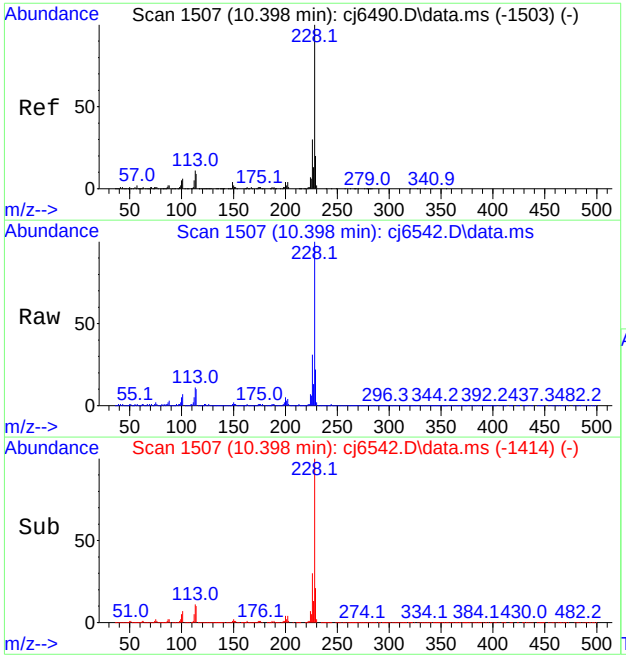


#89
Benzo[a]anthracene
Concen: 52.5480 ppm
RT: 10.360 min Scan# 1500
Delta R.T. 0.000 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:228 Resp: 1364196

Ion	Ratio	Lower	Upper
228	100		
229	19.6	0.0	49.8
226	30.2	0.0	57.1

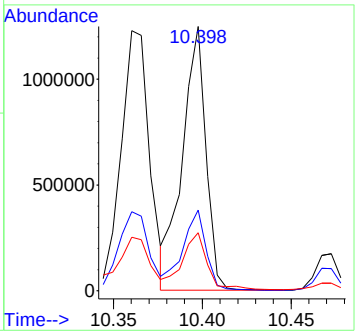


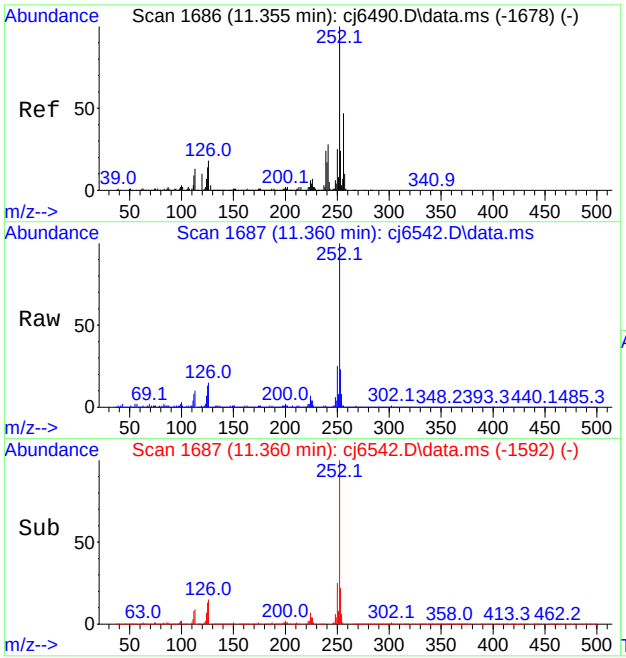


#91
Chrysene
Concen: 48.3479 ppm
RT: 10.398 min Scan# 1507
Delta R.T. -0.000 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:228 Resp: 1158041

Ion	Ratio	Lower	Upper
228	100		
226	30.3	0.0	59.9
229	21.4	0.0	49.8

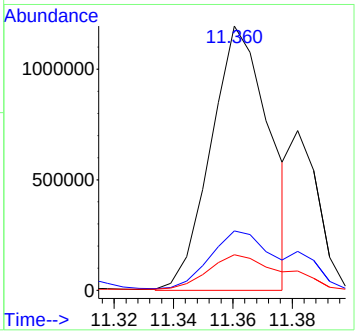


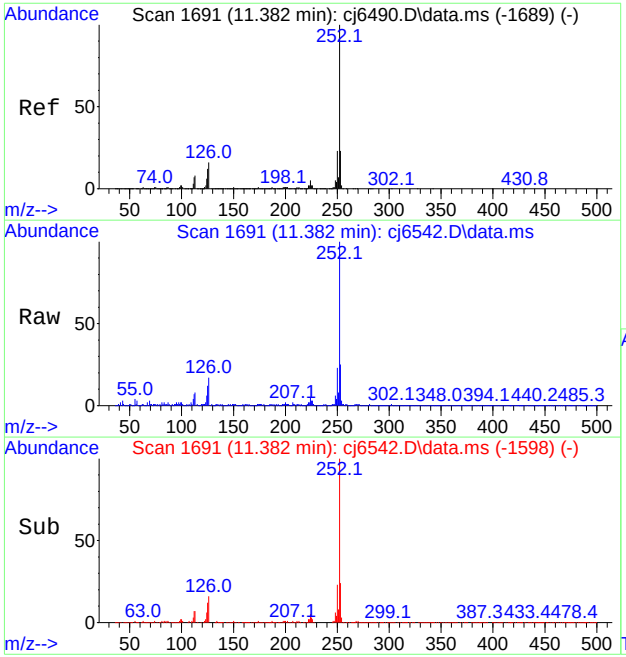


#95
Benzo[b]fluoranthene
Concen: 65.5939 ppm m
RT: 11.360 min Scan# 1687
Delta R.T. 0.005 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:252 Resp: 1637238

Ion	Ratio	Lower	Upper
252	100		
253	22.5	0.0	54.7
125	13.5	0.0	44.2

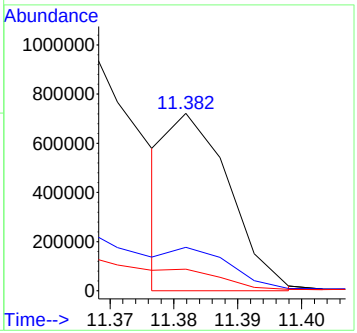


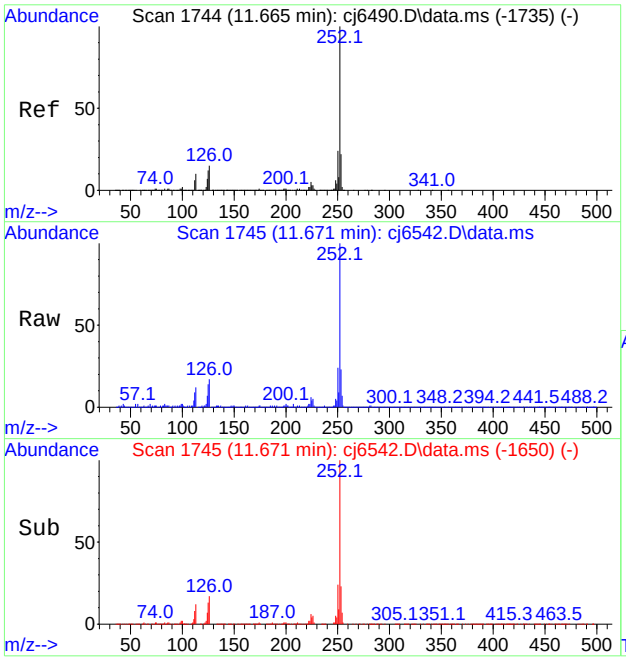


#96
Benzo[k]fluoranthene
Concen: 20.4555 ppm m
RT: 11.382 min Scan# 1691
Delta R.T. -0.000 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:252 Resp: 459431

Ion	Ratio	Lower	Upper
252	100		
253	24.5	0.0	52.6
125	12.1	0.0	42.4

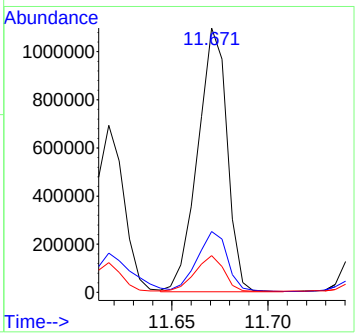


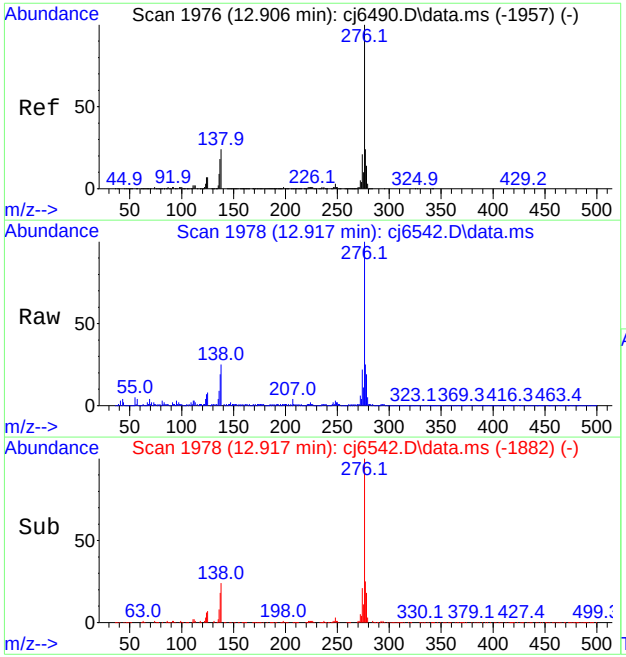


#97
Benzo[a]pyrene
Concen: 56.4039 ppm
RT: 11.671 min Scan# 1745
Delta R.T. 0.006 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:252 Resp: 1165454

Ion	Ratio	Lower	Upper
252	100		
253	22.2	0.0	51.9
125	13.5	0.0	42.1

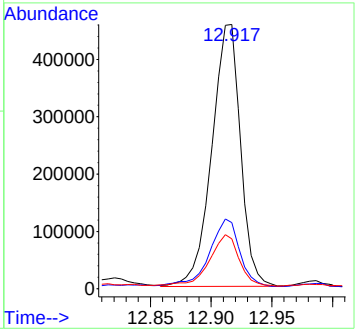


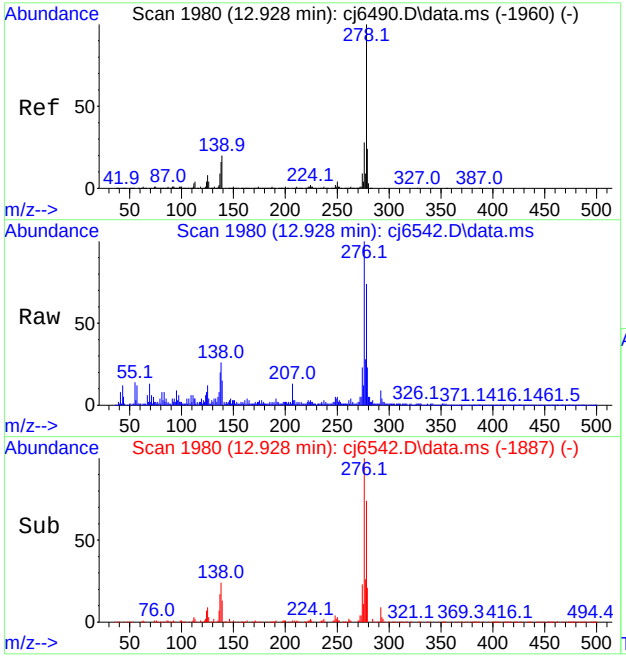


#98
Indeno[1,2,3-cd]pyrene
Concen: 30.0792 ppm
RT: 12.917 min Scan# 1978
Delta R.T. 0.011 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:276 Resp: 751360

Ion	Ratio	Lower	Upper
276	100		
138	24.2	0.0	54.2
137	17.9	0.0	47.9

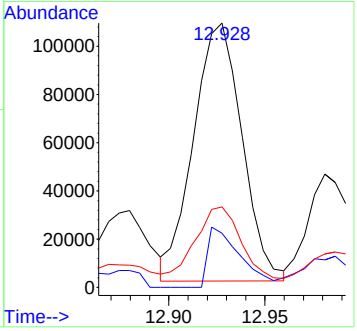


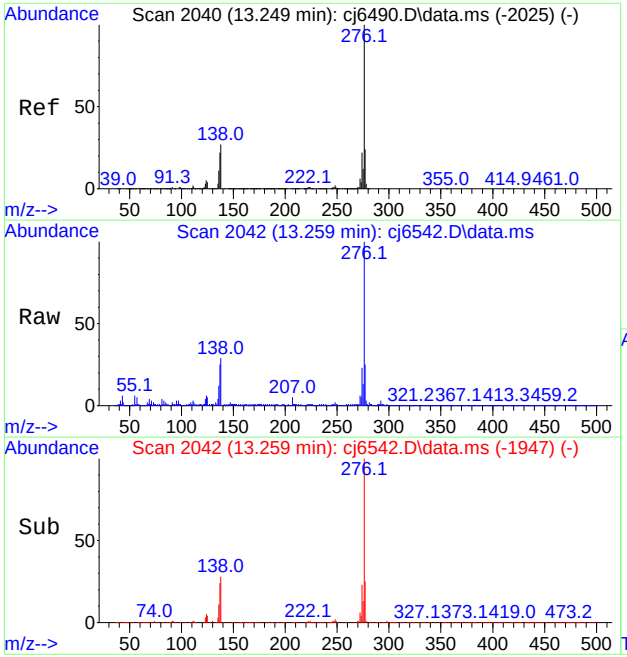


#100
Dibenz[a,h]anthracene
Concen: 9.4157 ppm
RT: 12.928 min Scan# 1980
Delta R.T. -0.000 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:278 Resp: 187933

Ion	Ratio	Lower	Upper
278	100		
139	20.5	0.0	49.8
279	28.8	0.0	54.1

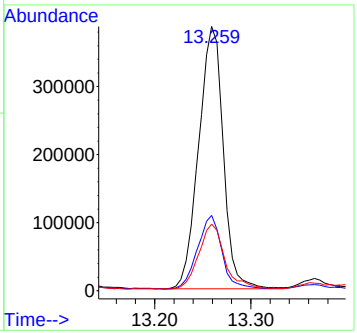




#102
Benzo[g,h,i]perylene
Concen: 35.4108 ppm
RT: 13.259 min Scan# 2042
Delta R.T. 0.010 min
Lab File: cj6542.D
Acq: 10 May 2024 01:32 am

Tgt Ion:276 Resp: 687385

Ion	Ratio	Lower	Upper
276	100		
138	27.9	0.0	56.7
277	24.7	0.0	54.1



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6542.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.252	353	358	362	rVB	991142	570486	7.83%	0.576%
2	4.429	381	391	396	rBV	2375711	1467697	20.14%	1.483%
3	4.487	399	402	407	rVB	533018	278209	3.82%	0.281%
4	4.664	431	435	440	rBV	2798511	2008678	27.57%	2.029%
5	4.760	446	453	460	rBV	236274	166997	2.29%	0.169%
6	4.824	460	465	470	rBV	332483	225226	3.09%	0.228%
7	5.012	495	500	504	rBV	1848614	1285913	17.65%	1.299%
8	5.472	580	586	591	rBV	3968659	2538913	34.84%	2.565%
9	6.167	710	716	723	rBV	4088955	2496752	34.27%	2.522%
10	6.557	784	789	794	rBV	623495	460786	6.32%	0.465%
11	6.659	800	808	811	rBV	4198822	2825316	38.77%	2.854%
12	6.680	811	812	816	rVB	285422	194572	2.67%	0.197%
13	7.082	876	887	893	rVB	386374	354839	4.87%	0.358%
14	7.274	919	923	927	rBV	1651688	1198181	16.44%	1.210%
15	7.381	939	943	949	rVB3	148335	146170	2.01%	0.148%
16	7.782	1013	1018	1025	rVB2	175804	222046	3.05%	0.224%
17	7.873	1025	1035	1037	rBV	3692653	3047242	41.82%	3.078%
18	7.895	1037	1039	1043	rVB	4227756	2737939	37.58%	2.766%
19	7.937	1043	1047	1050	rVB	1411230	1027553	14.10%	1.038%
20	8.076	1067	1073	1076	rBV	212474	199191	2.73%	0.201%
21	8.322	1113	1119	1122	rBV	494385	485432	6.66%	0.490%
22	8.349	1122	1124	1127	rBV	600285	366371	5.03%	0.370%
23	8.392	1130	1132	1135	rVB	306496	214206	2.94%	0.216%
24	8.424	1135	1138	1148	rVB2	1197851	1345158	18.46%	1.359%
25	8.601	1162	1171	1178	rBV2	399477	655444	9.00%	0.662%
26	8.740	1191	1197	1200	rBV3	128424	163561	2.24%	0.165%
27	8.836	1209	1215	1218	rBV	399075	428579	5.88%	0.433%
28	8.868	1218	1221	1224	rBV	208612	215709	2.96%	0.218%
29	8.911	1227	1229	1235	rVB2	438051	433638	5.95%	0.438%
30	8.991	1235	1244	1250	rBV	7932863	7249969	99.50%	7.323%
31	9.039	1250	1253	1256	rBV2	188607	205662	2.82%	0.208%
32	9.071	1256	1259	1263	rVB	276352	251092	3.45%	0.254%
33	9.125	1263	1269	1276	rBV4	335675	518807	7.12%	0.524%
34	9.205	1276	1284	1290	rBV	6792642	7214029	99.01%	7.287%
35	9.248	1290	1292	1300	rVB2	219077	287006	3.94%	0.290%
36	9.317	1300	1305	1308	rBV	382181	343063	4.71%	0.347%
37	9.355	1308	1312	1318	rVB	3163167	2682919	36.82%	2.710%
38	9.419	1318	1324	1327	rBV2	446325	665677	9.14%	0.672%
39	9.521	1331	1343	1347	rVB	973144	1368158	18.78%	1.382%
40	9.585	1347	1355	1358	rBV	782810	775749	10.65%	0.784%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.617	1358	1361	1365	rBV	696862	681596	9.35%	0.688%
42	9.681	1370	1373	1375	rBV2	153074	154795	2.12%	0.156%
43	9.708	1375	1378	1381	rBV2	367235	298751	4.10%	0.302%
44	9.740	1381	1384	1387	rBV	359550	317158	4.35%	0.320%
45	9.815	1394	1398	1408	rVB6	118109	250393	3.44%	0.253%
46	9.916	1408	1417	1419	rBV6	144025	289137	3.97%	0.292%
47	10.013	1428	1435	1441	rVB2	458146	531447	7.29%	0.537%
48	10.077	1441	1447	1449	rBV3	127484	169615	2.33%	0.171%
49	10.120	1451	1455	1458	rBV2	591359	661190	9.07%	0.668%
50	10.152	1458	1461	1462	rBV	421872	303887	4.17%	0.307%
51	10.216	1471	1473	1478	rVB	481254	438115	6.01%	0.443%
52	10.275	1479	1484	1493	rBV3	260608	451858	6.20%	0.456%
53	10.366	1493	1501	1505	rBV2	4599907	7286492	100.00%	7.360%
54	10.398	1505	1507	1514	rVB	3352413	2699662	37.05%	2.727%
55	10.467	1514	1520	1523	rBV	747180	849615	11.66%	0.858%
56	10.505	1523	1527	1530	rVV2	407727	483066	6.63%	0.488%
57	10.564	1534	1538	1542	rVV3	230016	390770	5.36%	0.395%
58	10.596	1542	1544	1547	rVV	259646	257693	3.54%	0.260%
59	10.622	1547	1549	1552	rVB2	169804	144944	1.99%	0.146%
60	10.692	1557	1562	1565	rBV3	166995	293435	4.03%	0.296%
61	10.719	1565	1567	1569	rVV	177899	139285	1.91%	0.141%
62	10.756	1569	1574	1577	rVV	604881	721808	9.91%	0.729%
63	10.783	1577	1579	1583	rVV	298656	282007	3.87%	0.285%
64	10.842	1583	1590	1593	rVV2	378312	448600	6.16%	0.453%
65	10.874	1593	1596	1597	rVV3	344650	358883	4.93%	0.363%
66	10.890	1597	1599	1601	rVV	362625	350294	4.81%	0.354%
67	10.911	1601	1603	1608	rVV3	351511	395076	5.42%	0.399%
68	10.954	1608	1611	1617	rVB2	213168	225733	3.10%	0.228%
69	11.002	1617	1620	1625	rBV	128334	150038	2.06%	0.152%
70	11.050	1625	1629	1634	rBV4	299335	435480	5.98%	0.440%
71	11.125	1638	1643	1648	rVV6	135344	275914	3.79%	0.279%
72	11.216	1654	1660	1664	rBV4	228320	474113	6.51%	0.479%
73	11.360	1680	1687	1696	rVV	3396001	6009818	82.48%	6.071%
74	11.451	1696	1704	1708	rVV2	737008	852660	11.70%	0.861%
75	11.532	1712	1719	1721	rBV4	180976	363283	4.99%	0.367%
76	11.548	1721	1722	1725	rVV2	167197	146472	2.01%	0.148%
77	11.574	1725	1727	1730	rVV2	120913	141927	1.95%	0.143%
78	11.617	1730	1735	1741	rVV	1892528	2098501	28.80%	2.120%
79	11.671	1741	1745	1749	rVB	3067224	3121200	42.84%	3.153%
80	11.724	1749	1755	1758	rBV	2232788	2569318	35.26%	2.595%
81	11.751	1758	1760	1770	rVB2	927220	946173	12.99%	0.956%
82	11.879	1776	1784	1788	rBV6	183632	489636	6.72%	0.495%
83	11.970	1798	1801	1808	rBV3	100266	234352	3.22%	0.237%
84	12.024	1808	1811	1818	rVB2	133192	255735	3.51%	0.258%
85	12.093	1819	1824	1827	rBV2	100074	142812	1.96%	0.144%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.179	1835	1840	1844	rBV2	182973	298937	4.10%	0.302%
87	12.484	1888	1897	1902	rVB6	109864	237984	3.27%	0.240%
88	12.569	1904	1913	1917	rBV7	108959	202366	2.78%	0.204%
89	12.655	1917	1929	1942	rVB7	184146	892588	12.25%	0.902%
90	12.783	1944	1953	1964	rBV4	365220	826809	11.35%	0.835%
91	12.917	1964	1978	1986	rVB2	1395642	2787531	38.26%	2.816%
92	12.981	1986	1990	1998	rBV2	134718	239430	3.29%	0.242%
93	13.056	1998	2004	2009	rBV2	302567	577501	7.93%	0.583%
94	13.104	2009	2013	2017	rVV4	302111	527969	7.25%	0.533%
95	13.142	2017	2020	2034	rVV5	163652	368875	5.06%	0.373%
96	13.259	2034	2042	2057	rVB	1129737	2151323	29.52%	2.173%
97	13.436	2066	2075	2090	rVB	399272	1125921	15.45%	1.137%
98	13.719	2122	2128	2136	rVB	68520	168807	2.32%	0.171%
99	13.848	2147	2152	2162	rVB5	110339	250083	3.43%	0.253%
100	13.981	2169	2177	2194	rVB5	109847	437477	6.00%	0.442%

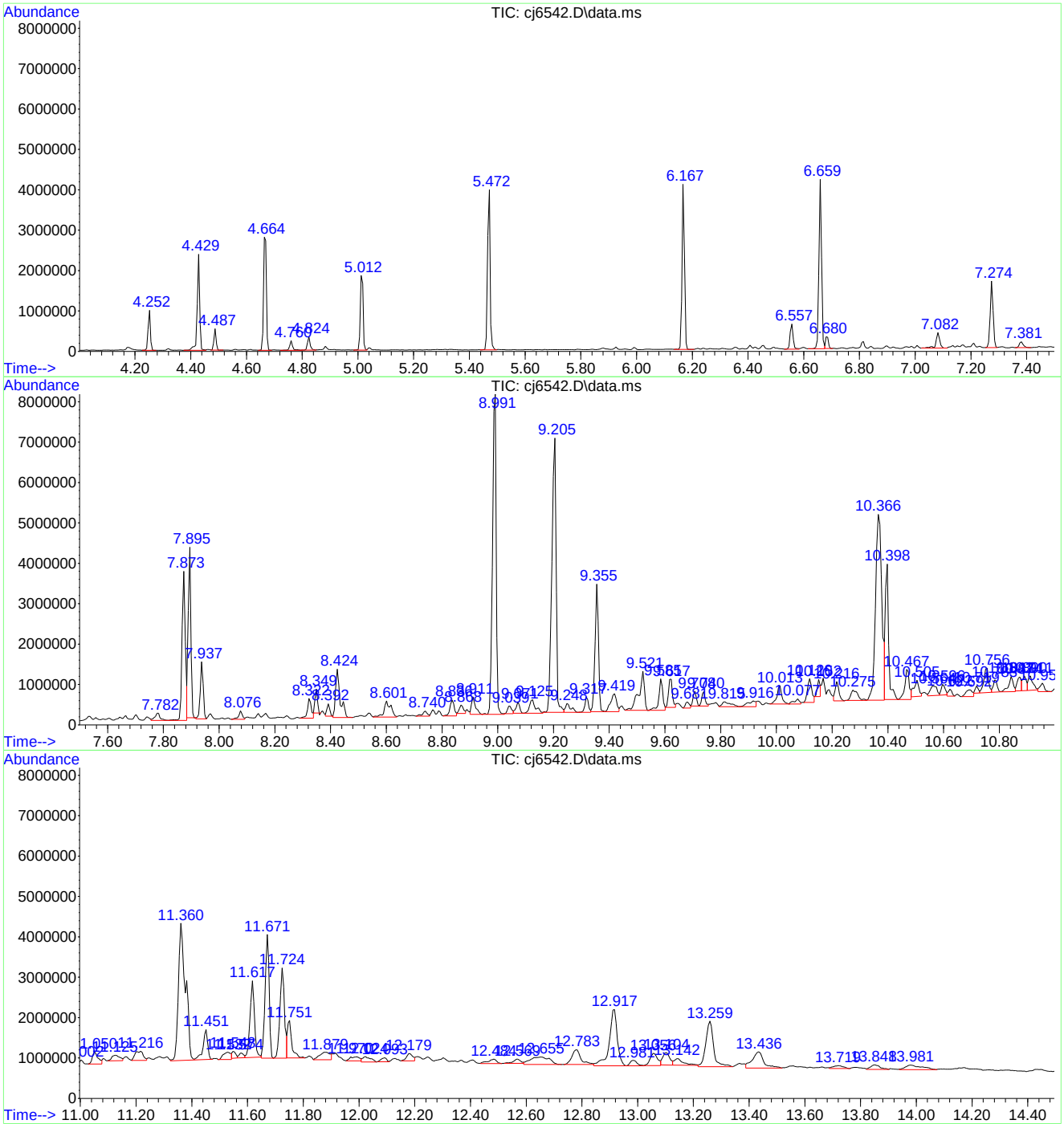
Sum of corrected areas: 98999273

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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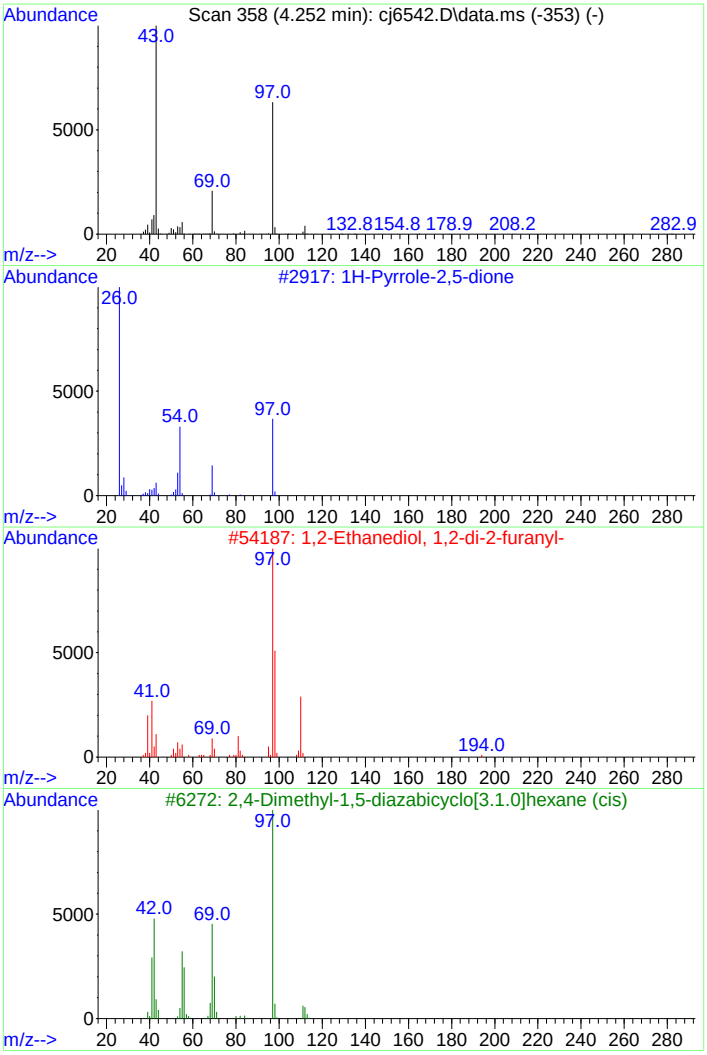
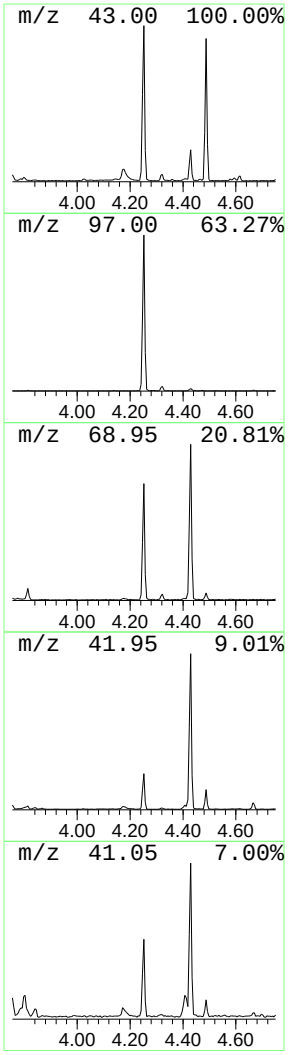
Peak Number 1 Unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.252	11.36 ppm	570486	1,4-Dichlorobenzene-d4a	4.669

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	50
2	1,2-Ethanediol, 1,2-di-2-furanyl-	194	C10H10O4	004464-77-1	28
3	2,4-Dimethyl-1,5-diazabicyclo[3....	112	C6H12N2	100463-01-2	23
4	5-Hexen-2-one	98	C6H10O	000109-49-9	10
5	5-Hexen-2-one	98	C6H10O	000109-49-9	10





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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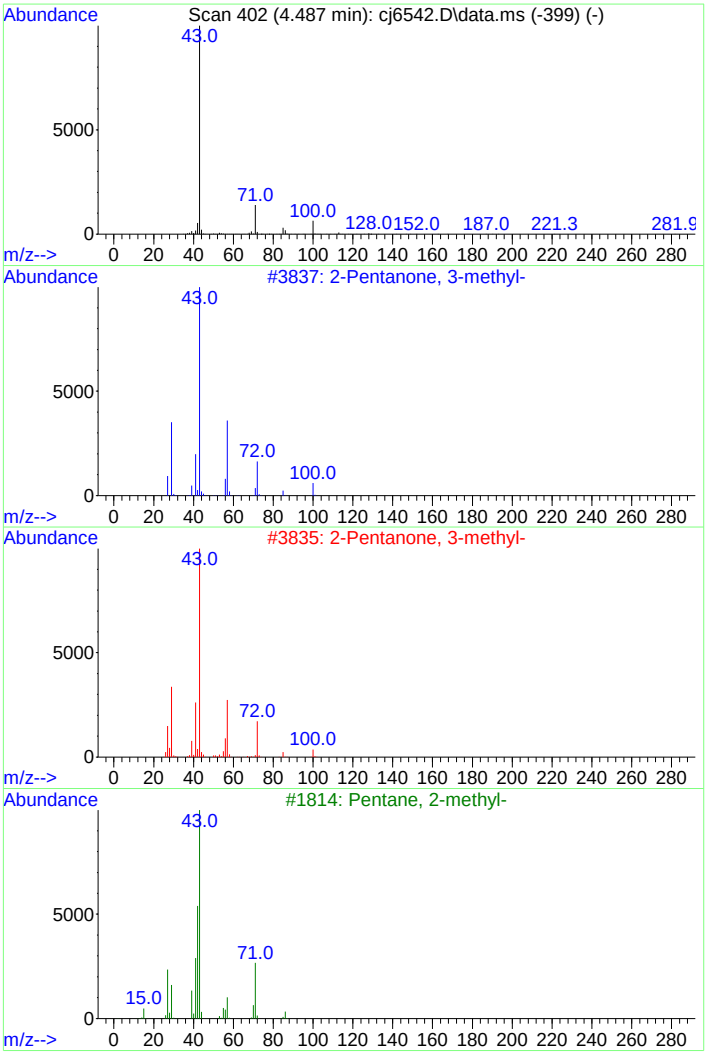
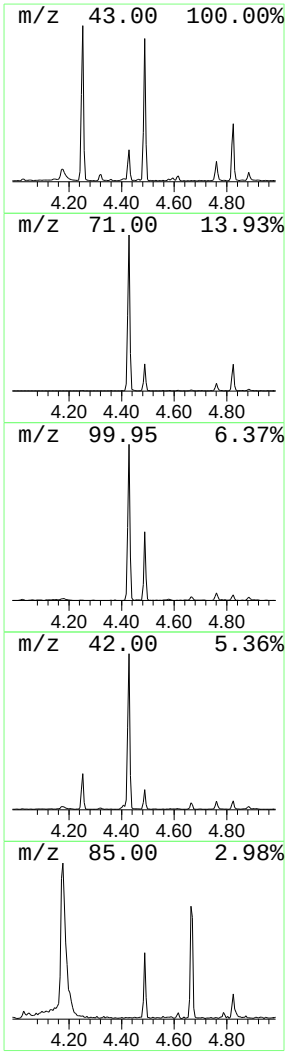
Peak Number 2 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.487	5.54 ppm	278209	1,4-Dichlorobenzene-d4a	4.669

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 3-methyl-	100	C6H12O	000565-61-7	9
2	2-Pentanone, 3-methyl-	100	C6H12O	000565-61-7	9
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	9
4	2-Pentanone, 3-methyl-	100	C6H12O	000565-61-7	7
5	Heptane	100	C7H16	000142-82-5	7





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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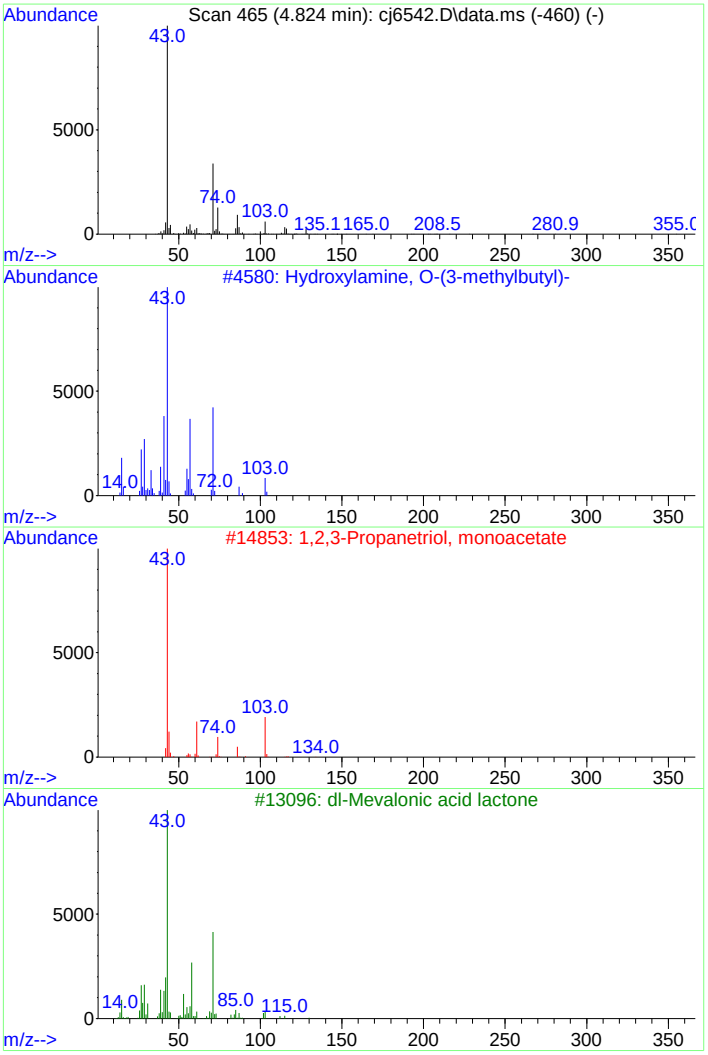
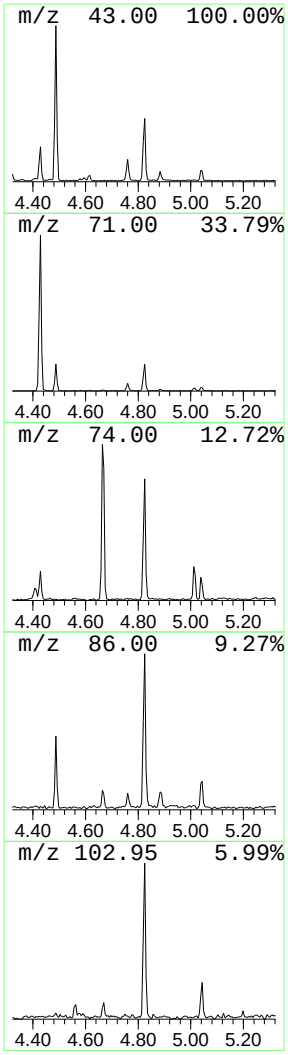
Peak Number 3 Unknown Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.824	4.49 ppm	225226	1,4-Dichlorobenzene-d4a	4.669

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hydroxylamine, O-(3-methylbutyl)-	103	C5H13NO	019411-65-5	47
2	1,2,3-Propanetriol, monoacetate	134	C5H10O4	026446-35-5	32
3	dl-Mevalonic acid lactone	130	C6H10O3	000674-26-0	28
4	2-Propanone, 1-(acetyloxy)-	116	C5H8O3	000592-20-1	27
5	Propanoic acid, 2-methyl-, 2-pro...	128	C7H12O2	015727-77-2	23





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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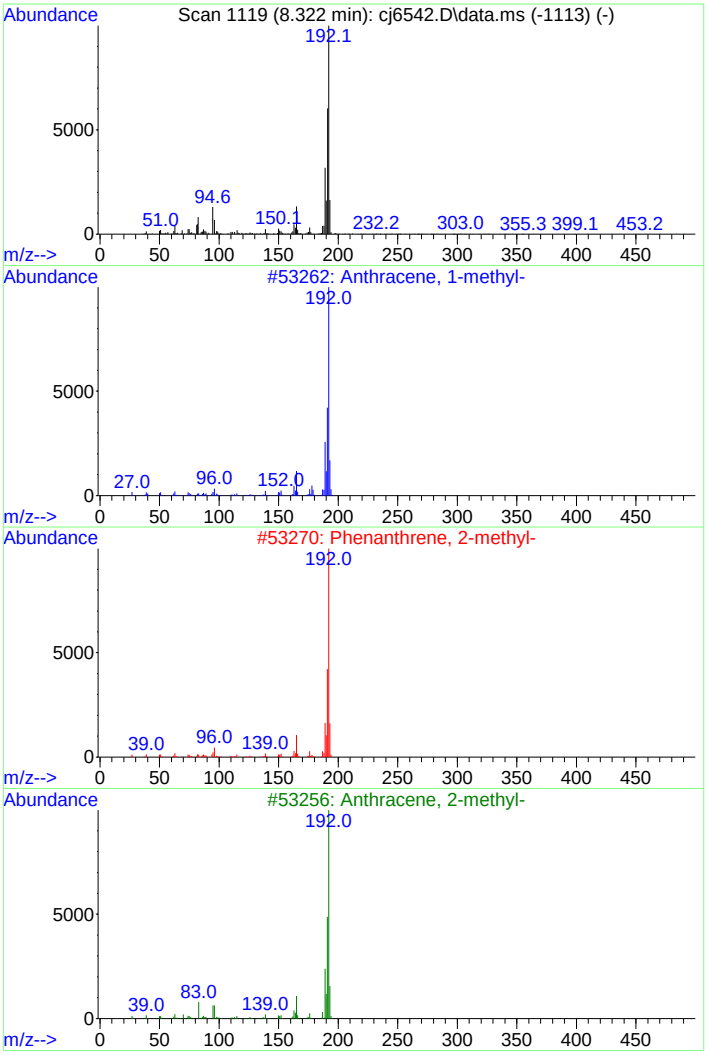
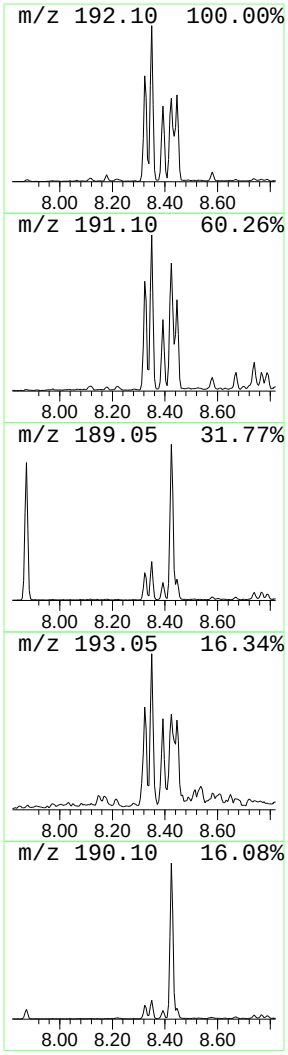
Peak Number 4 Anthracene, methyl Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.322	6.37 ppm	485432	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

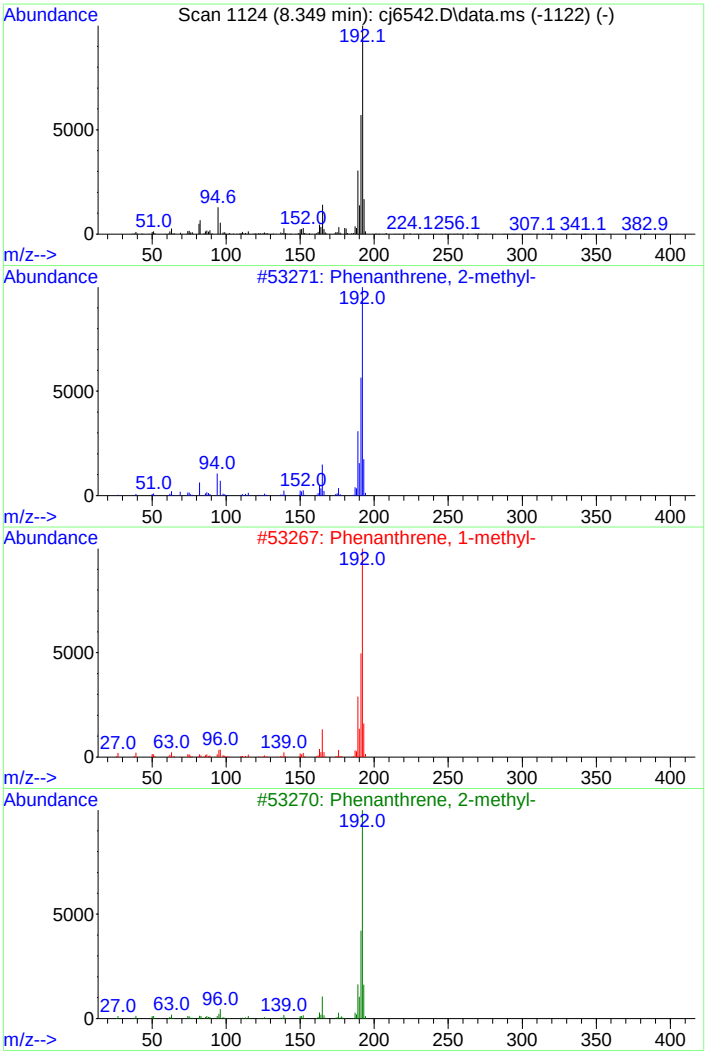
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

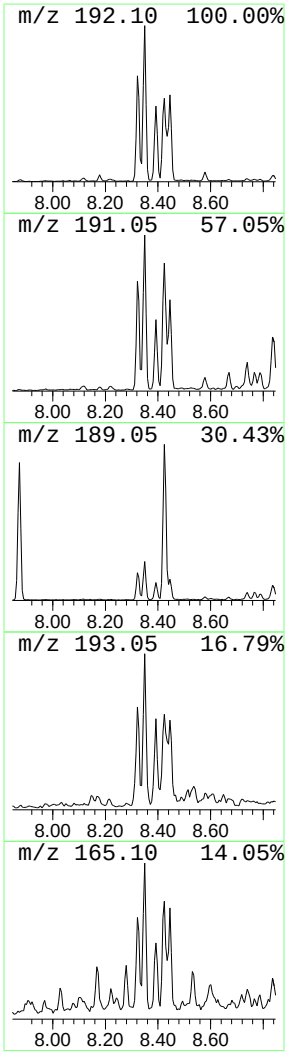
****

Peak Number 5 Phenanthrene, methyl Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.349	4.81 ppm	366371	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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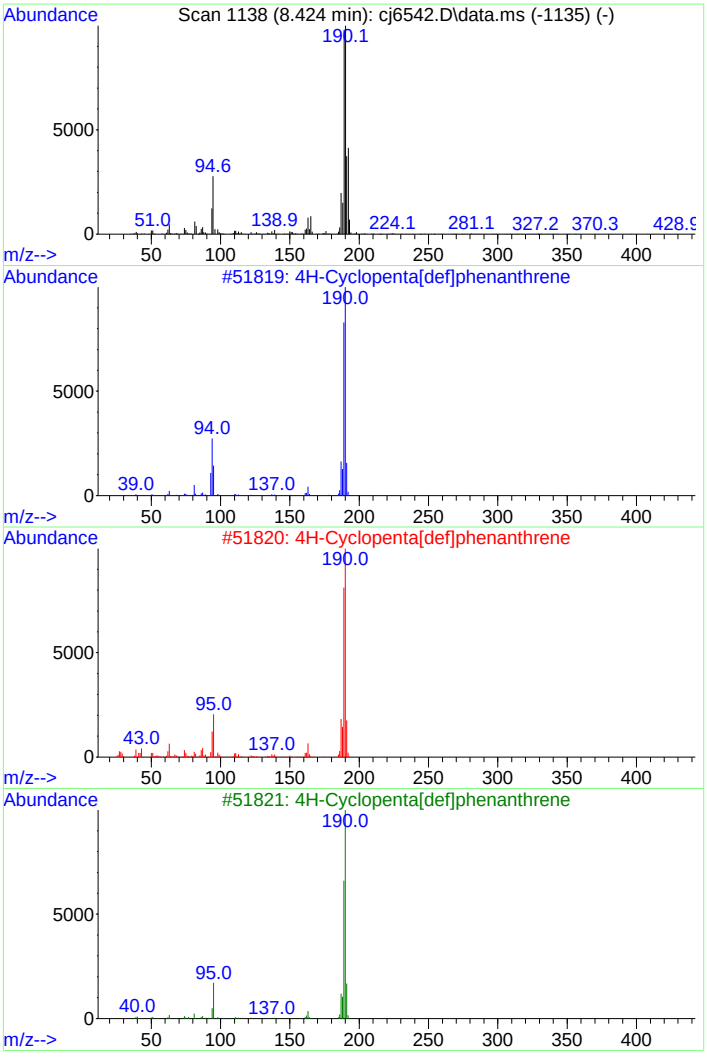
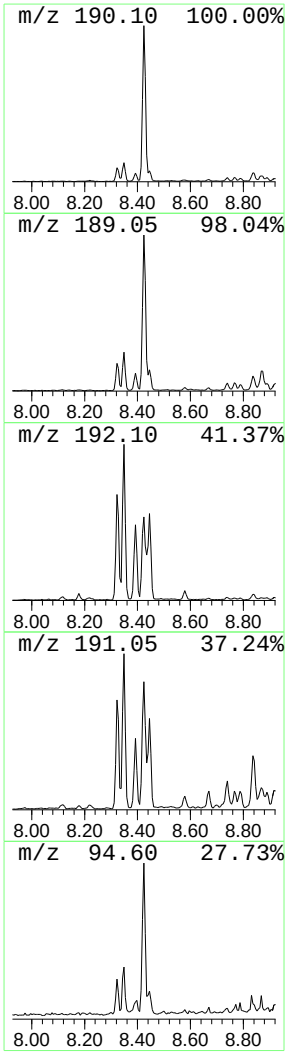
Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.424	17.66 ppm	1345160	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	50
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	37
5	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	17





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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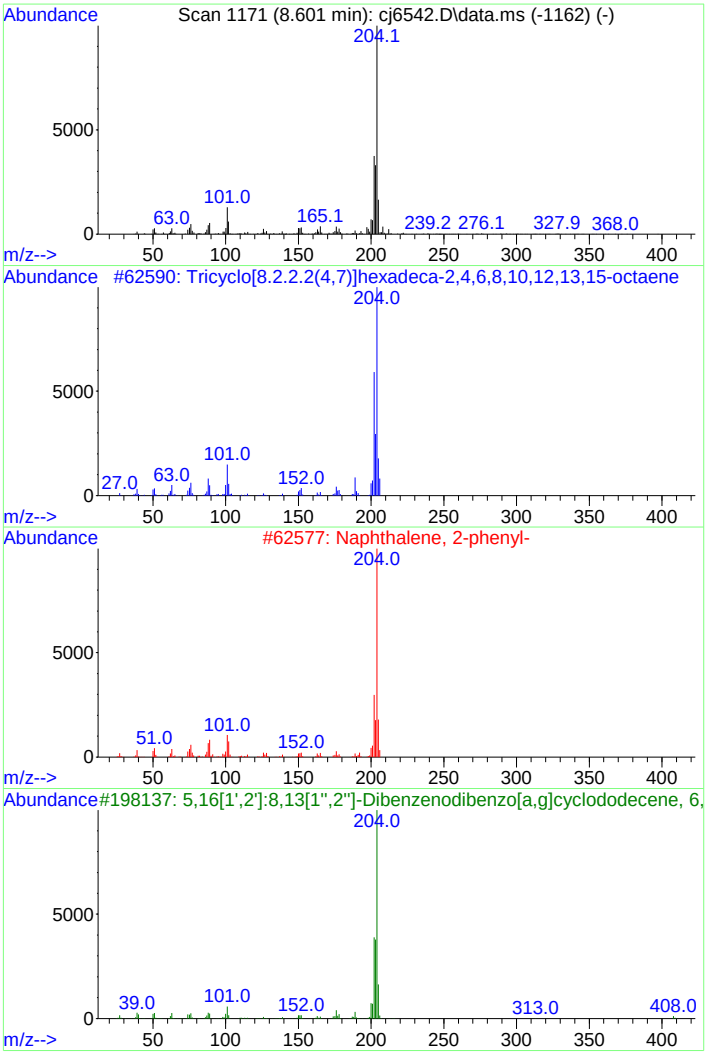
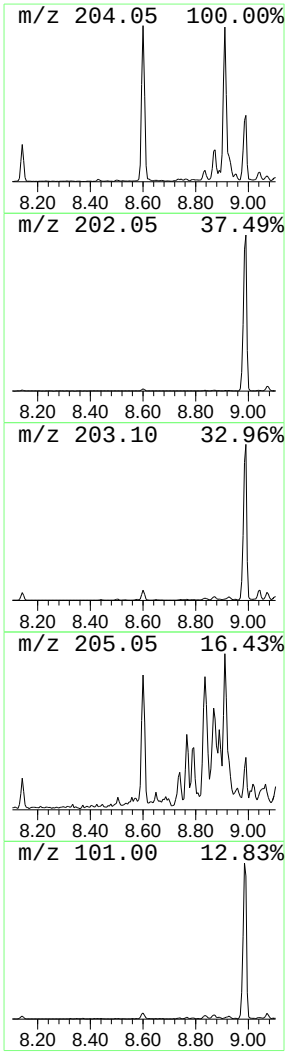
Peak Number 7 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.601	8.60 ppm	655444	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	90
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	74





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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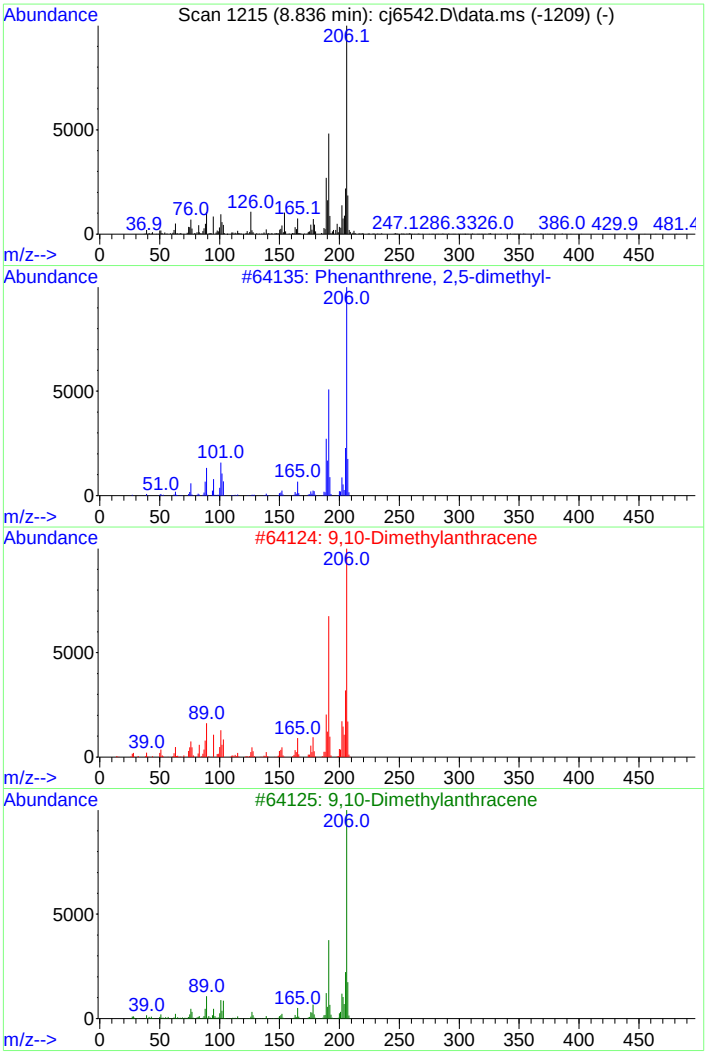
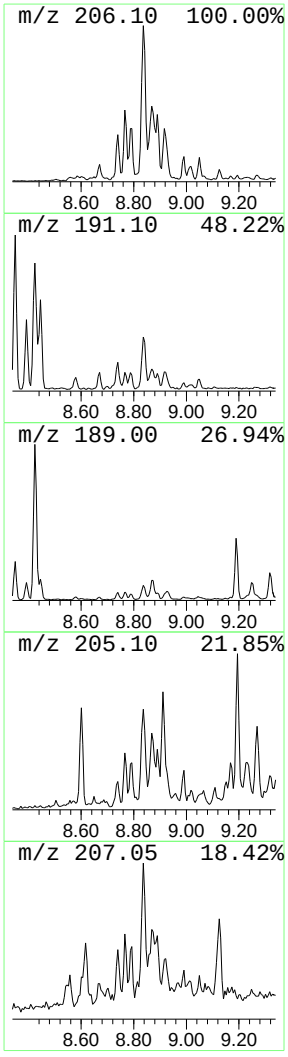
Peak Number 8 Phenanthrene, dimethyl Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.836	5.63 ppm	428579	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	92





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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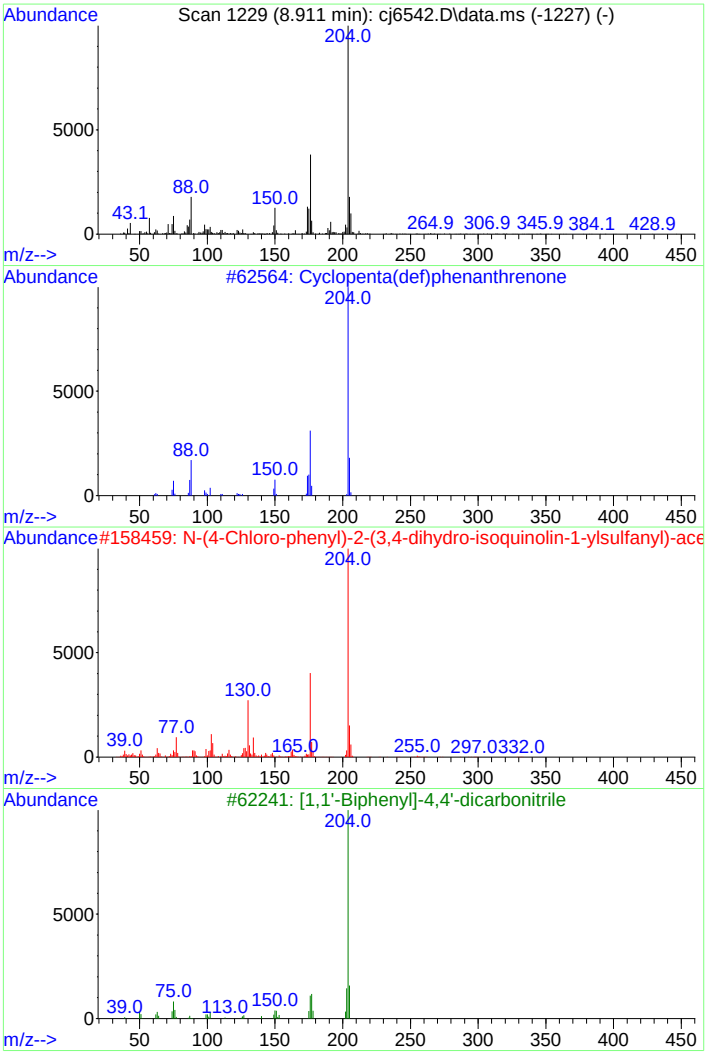
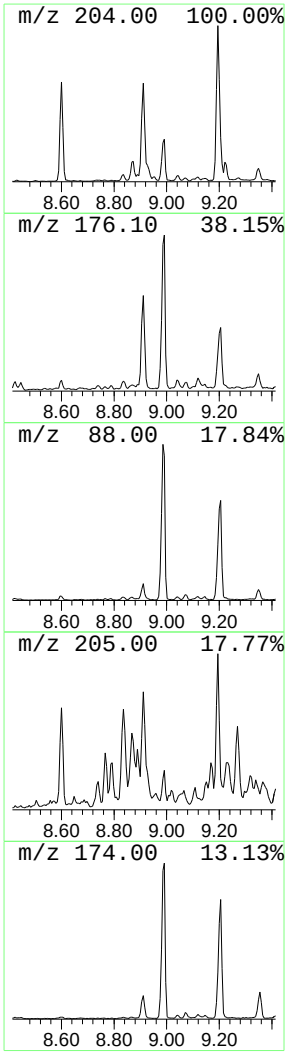
Peak Number 9 Unknown Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.911	5.69 ppm	433638	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	N-(4-Chloro-phenyl)-2-(3,4-dihyd...	330	C17H15ClN2OS	1000296-34-3	59
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	52
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	45
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	43





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Acq On : 10 May 2024 01:32 am
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Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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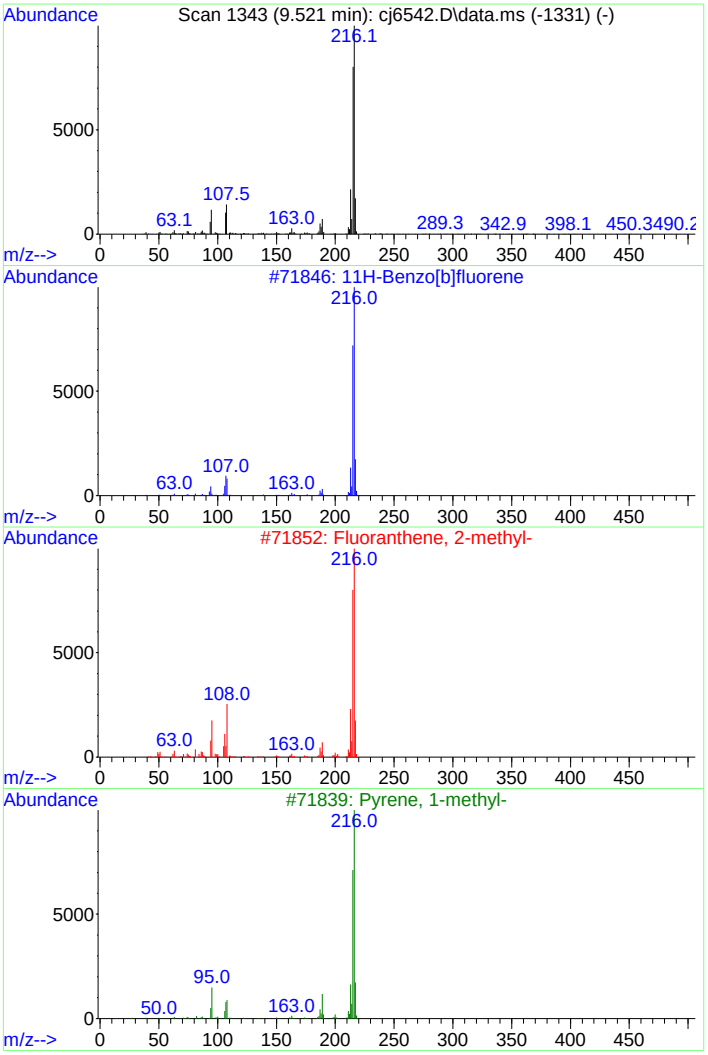
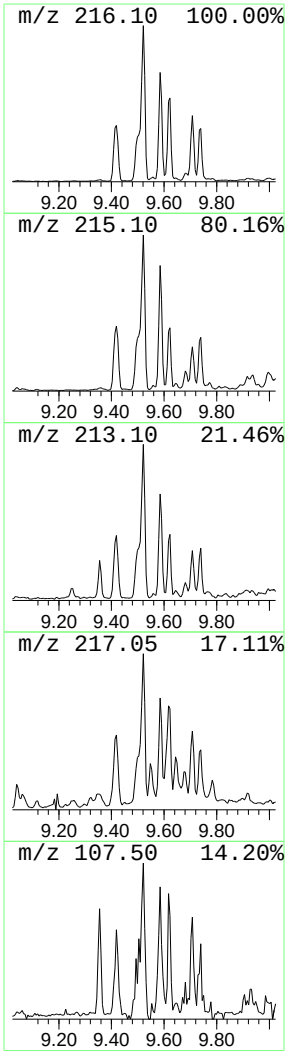
Peak Number 10 Fluoranthene, methyl Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.521	7.51 ppm	1368160	Chrysene-d12	10.371

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91





Library Search Compound Report

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Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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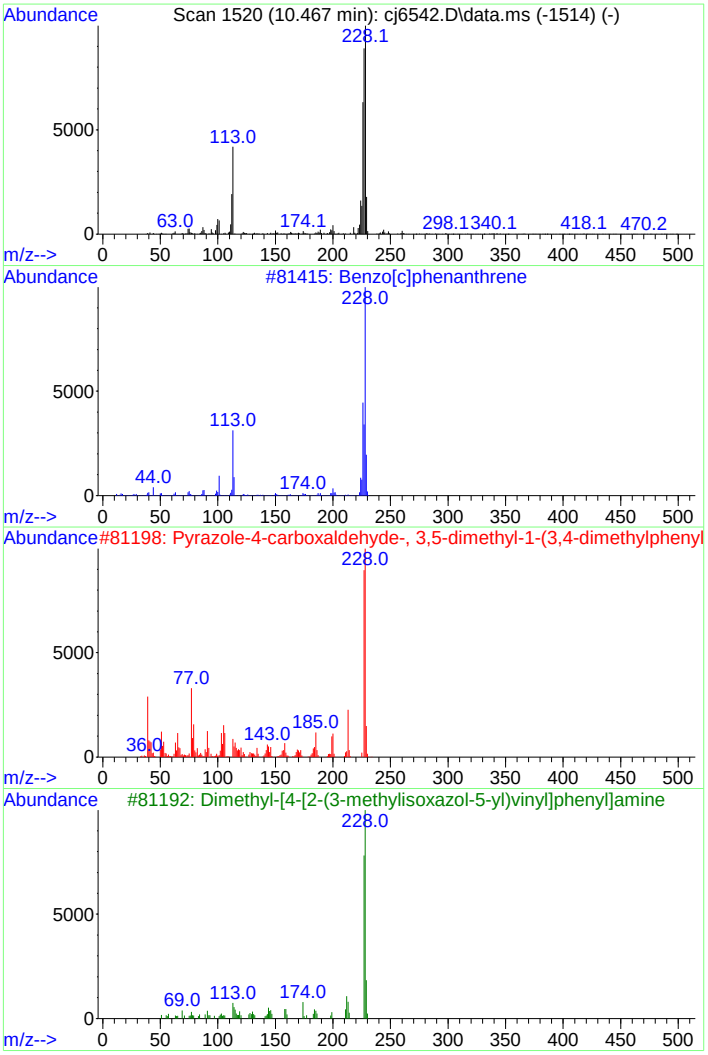
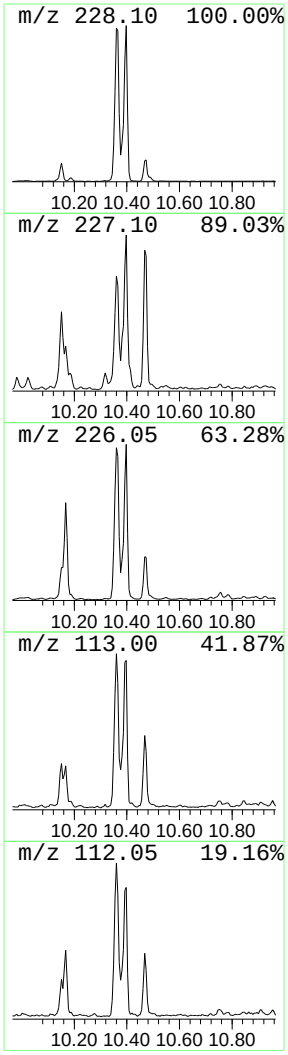
Peak Number 11 Unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.467	4.66 ppm	849615	Chrysene-d12a	10.371

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]phenanthrene	228	C18H12	000195-19-7	49
2	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	43
3	Dimethyl-[4-[2-(3-methylisoxazol...	228	C14H16N2O	1000306-39-6	43
4	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	43
5	1,3,5-Triazine-2(1H)-thione, 4-(...	227	C9H17N5S	023613-02-7	38





Library Search Compound Report

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Acq On : 10 May 2024 01:32 am
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Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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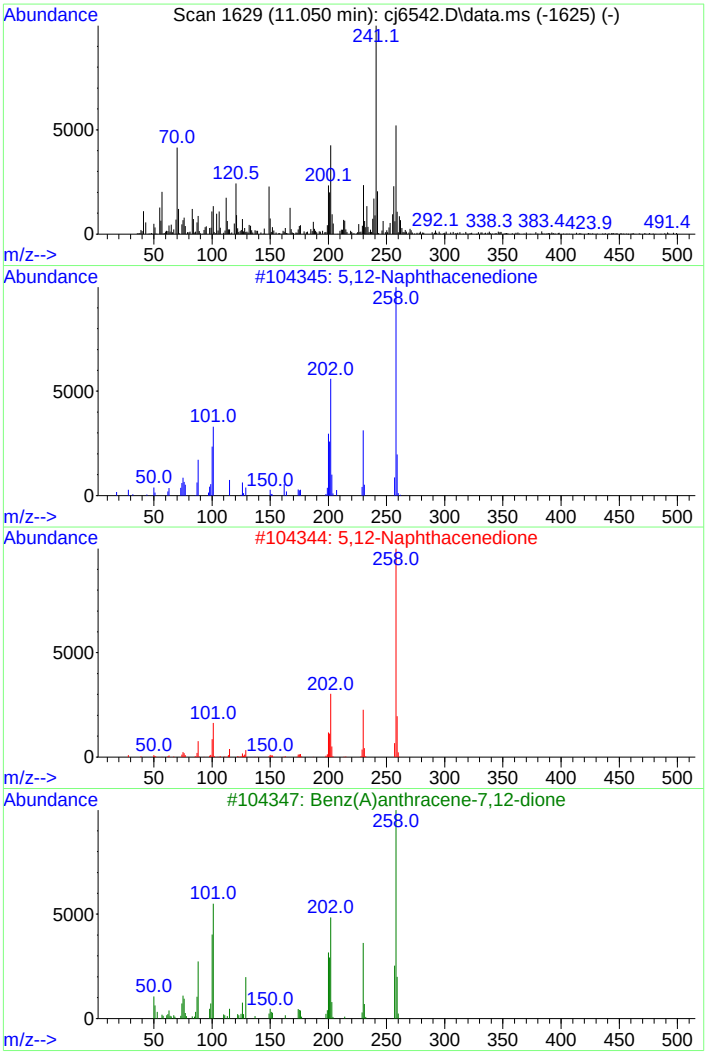
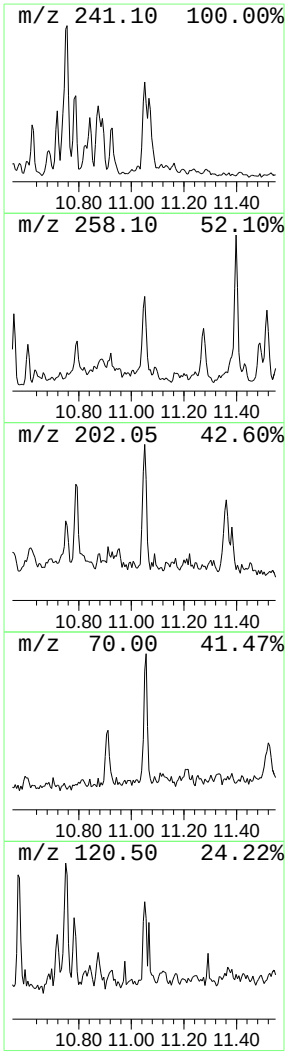
Peak Number 12 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.050	6.78 ppm	435480	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	84
2	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	64
3	Benz(A)anthracene-7,12-dione	258	C18H10O2	002498-66-0	42
4	Phenol, 4,4'-(1-methylethylidene...	256	C17H20O2	000079-97-0	38
5	Benzene, 1,1'-(1-methylethyliden...	256	C17H20O2	001568-83-8	38





Library Search Compound Report

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Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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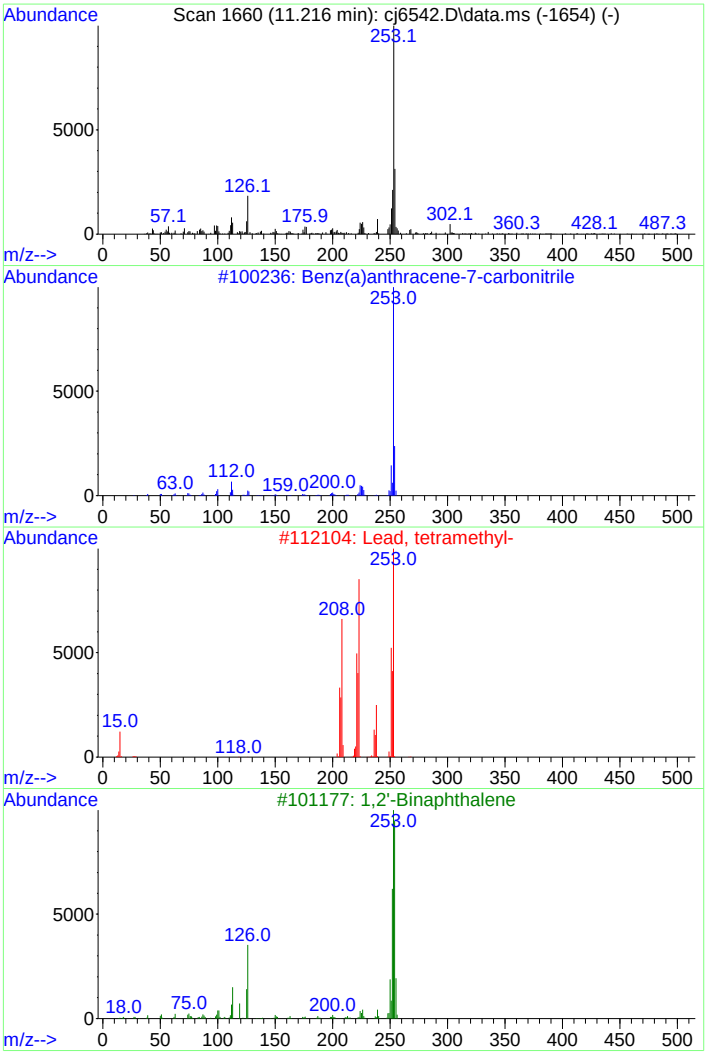
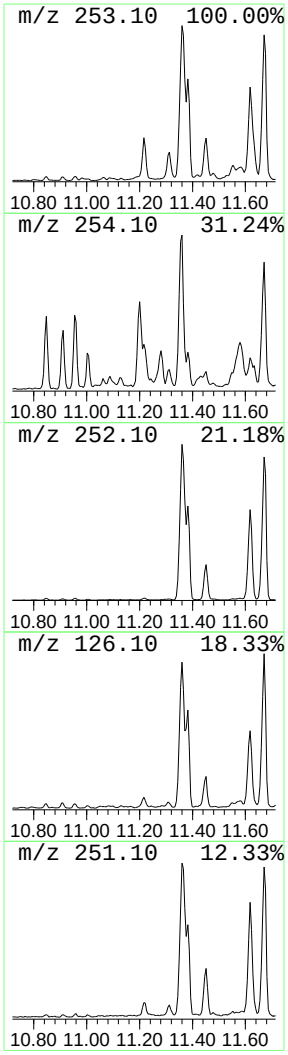
Peak Number 13 Unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.216	7.38 ppm	474113	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	95
2	Lead, tetramethyl-	268	C4H12Pb	000075-74-1	50
3	1,2'-Binaphthalene	254	C20H14	004325-74-0	47
4	Plumbane, trimethyl(1-methylprop...	310	C7H18Pb	054964-76-0	47
5	Cyclopentanepropanoic acid, 2-[3...	487	C24H49NO5Si2	055821-18-6	42





Library Search Compound Report

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Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
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Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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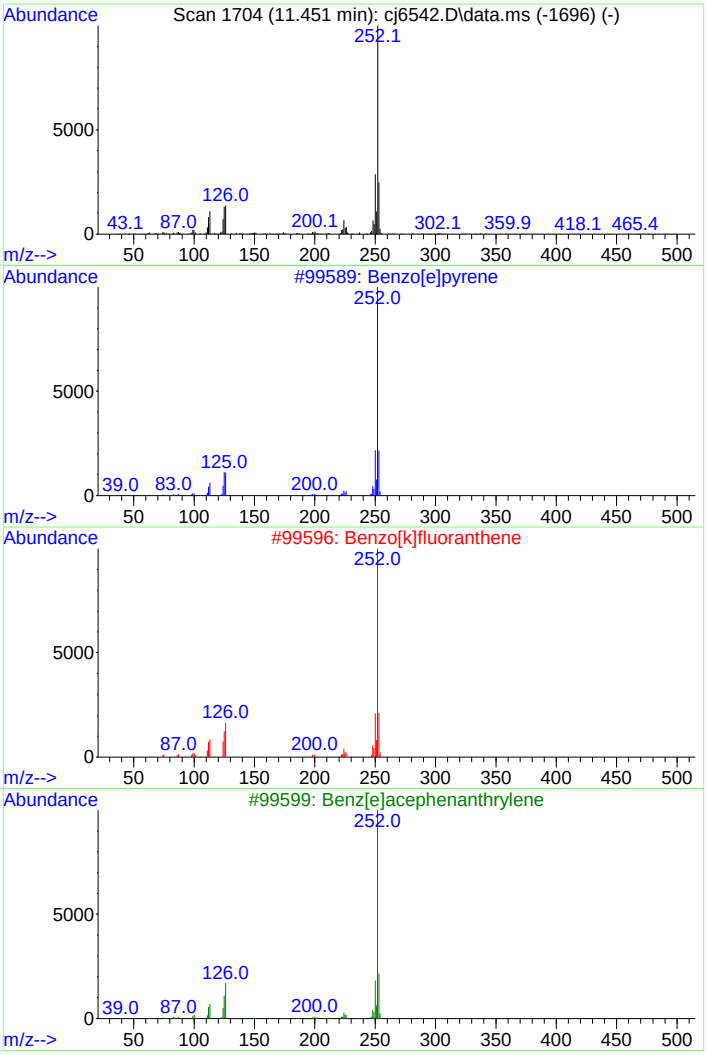
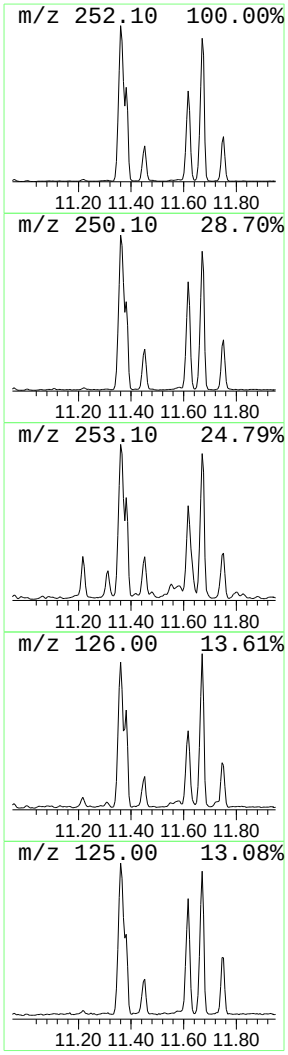
Peak Number 14 Unknown PHA Substance Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.451	13.27 ppm	852660	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
5	Benzo[e]pyrene	252	C20H12	000192-97-2	93





Library Search Compound Report

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Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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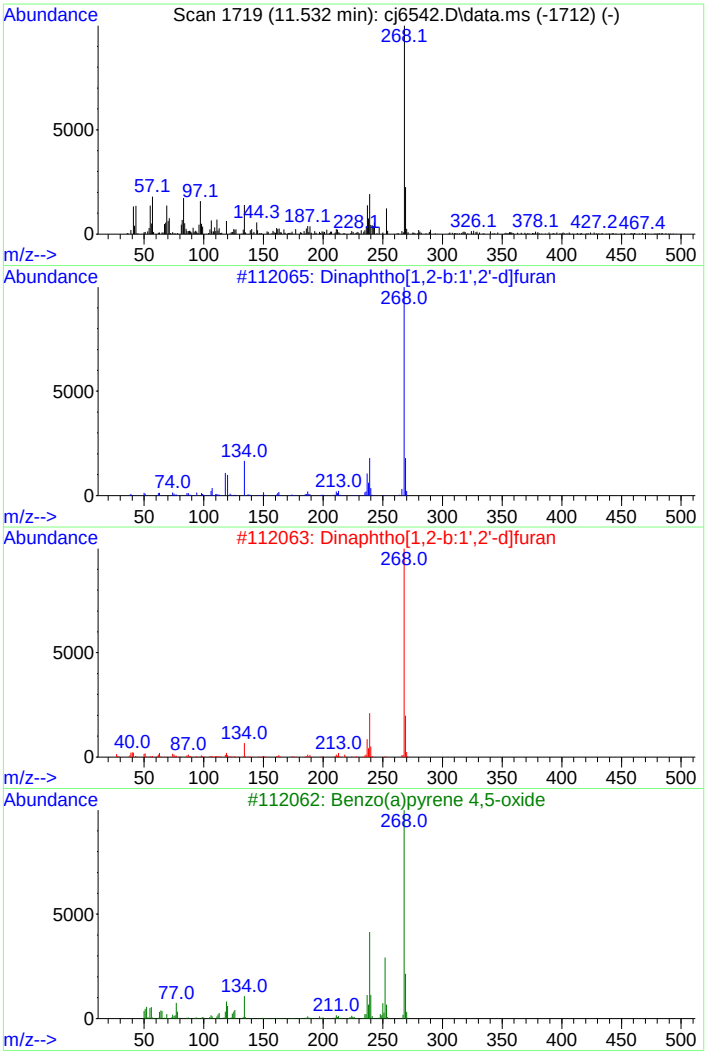
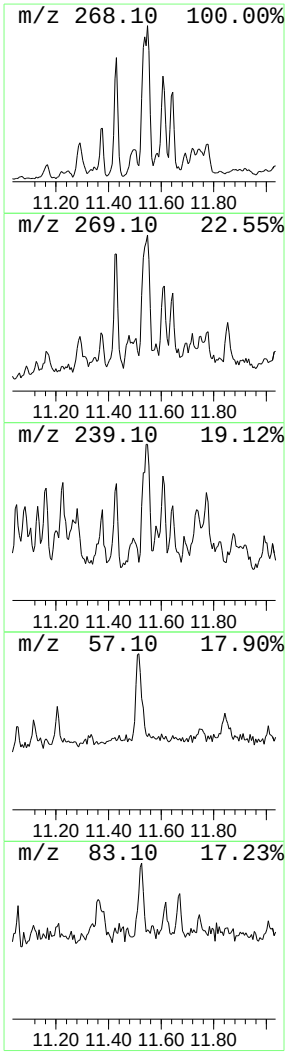
Peak Number 15 Unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.532	5.66 ppm	363283	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	93
2	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	87
3	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	74
4	Benzo(a)pyren-7-ol	268	C20H12O	037994-82-4	62
5	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	58





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Acq On : 10 May 2024 01:32 am
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Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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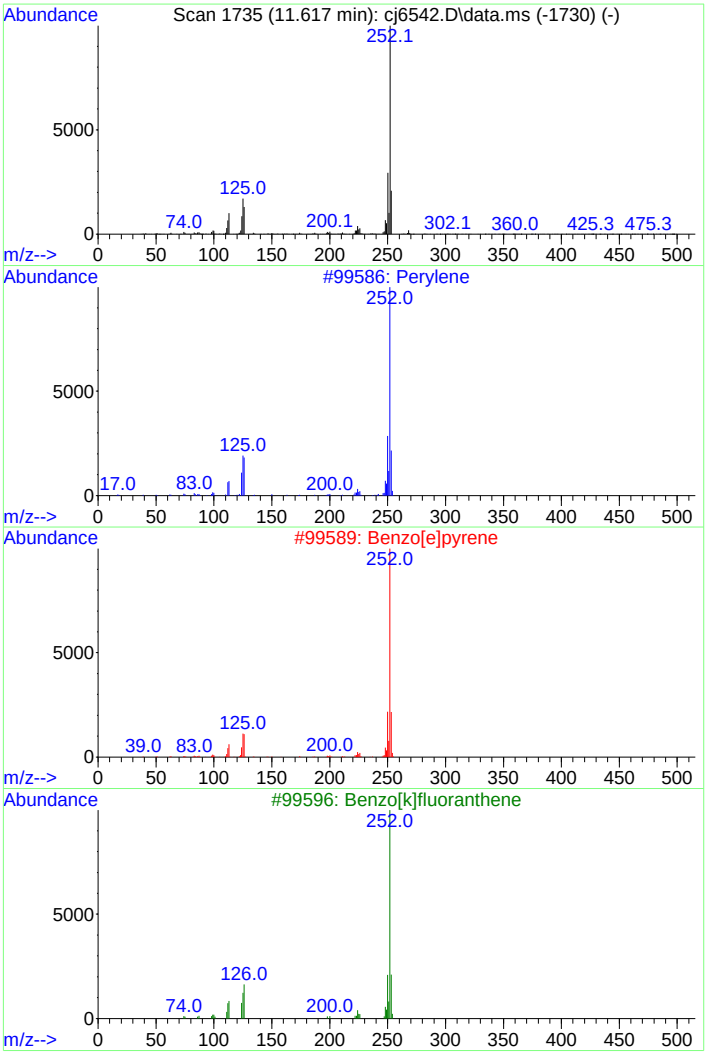
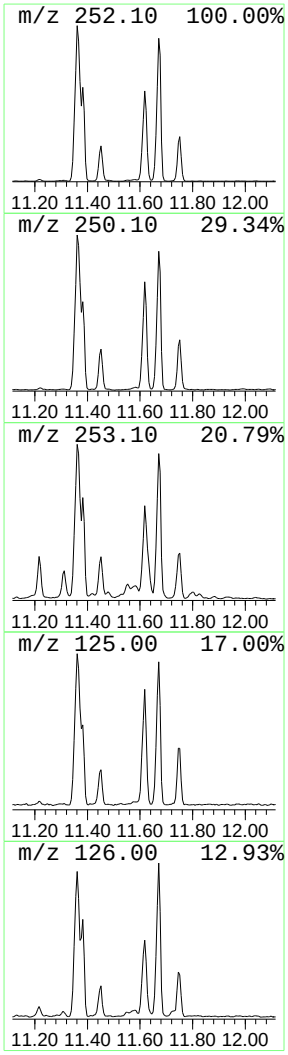
Peak Number 16 Unknown PHA Substance Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.617	32.67 ppm	2098500	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	98
2	Benzo[e]pyrene	252	C20H12	000192-97-2	98
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
4	Perylene	252	C20H12	000198-55-0	96
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94





Library Search Compound Report

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Acq On : 10 May 2024 01:32 am
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Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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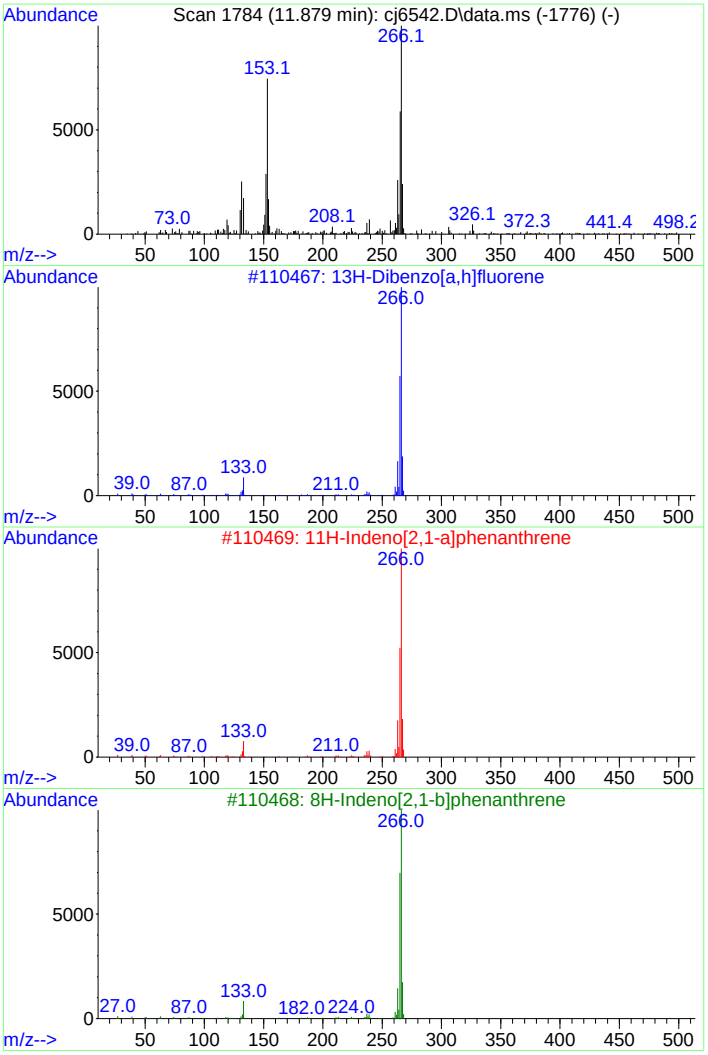
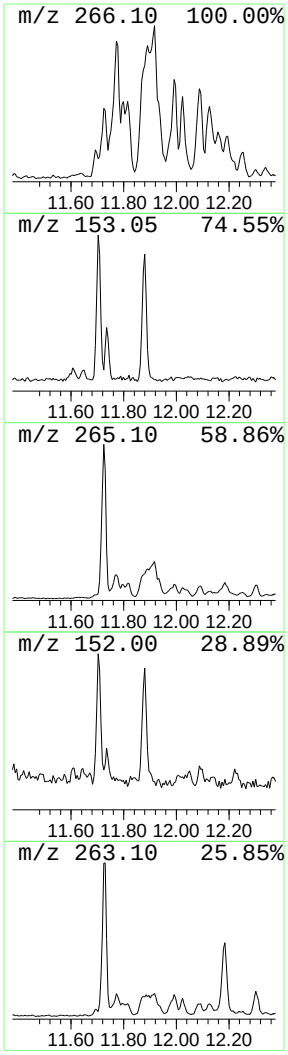
Peak Number 17 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.879	7.62 ppm	489636	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	50
2	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	45
3	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	43
4	Perylene, 3-methyl-	266	C21H14	024471-47-4	38
5	4H-1-Benzopyran-4-one, 3-hydroxy...	266	C17H14O3	078396-37-9	35





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Sample : jd87833-15
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ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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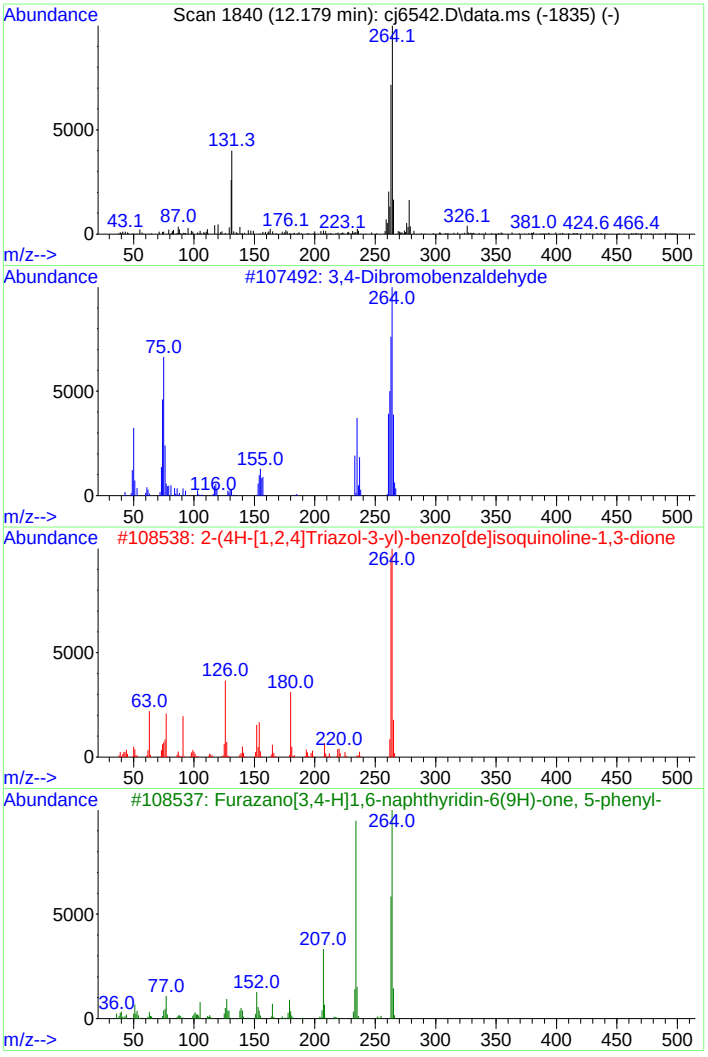
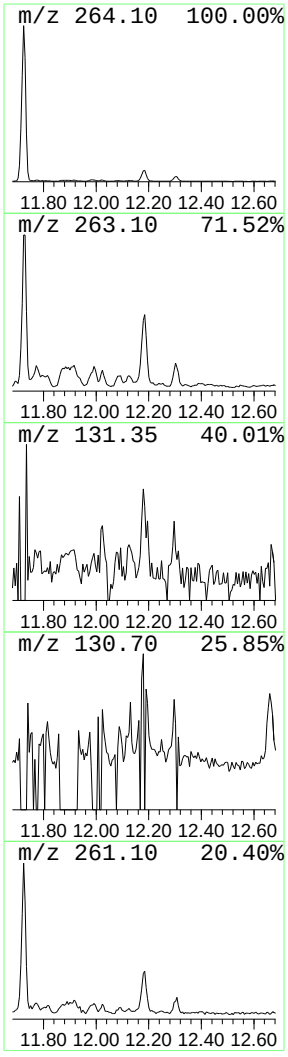
Peak Number 18 Unknown Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.179	4.65 ppm	298937	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4-Dibromobenzaldehyde	262	C7H4Br2O	074003-55-7	52
2	2-(4H-[1,2,4]Triazol-3-yl)-benzo...	264	C14H8N4O2	1000318-09-6	47
3	Furazano[3,4-H]1,6-naphthyridin-...	264	C14H8N4O2	296245-19-7	43
4	Boroxin, ethyldiphenyl-	264	C14H15B3O3	1000151-82-0	36
5	7,9-Diamino-5,6,8,10-tetraaza-be...	264	C13H8N6O	052559-29-2	27





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Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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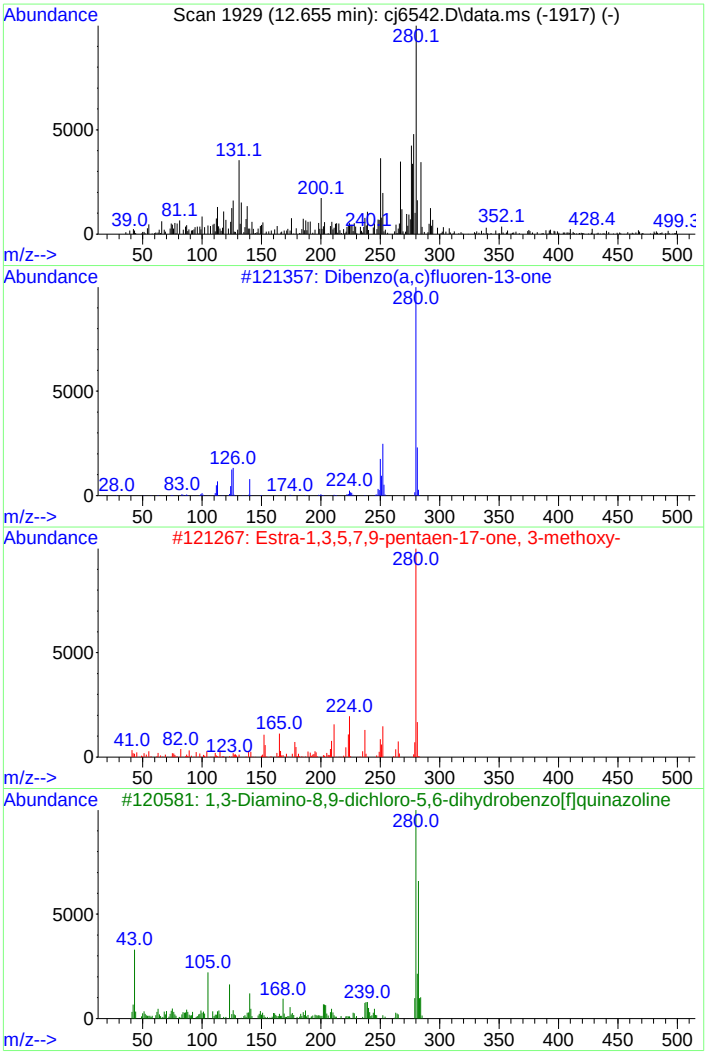
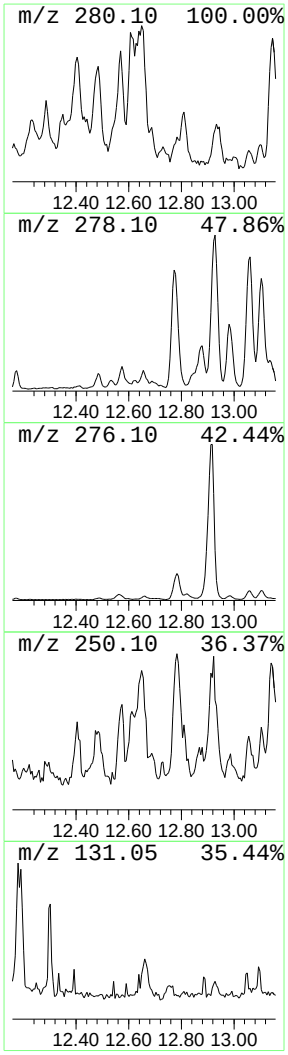
Peak Number 19 Unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.655	13.90 ppm	892588	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo(a,c)fluoren-13-one	280	C21H12O	063041-47-4	41
2	Estra-1,3,5,7,9-pentaen-17-one, ...	280	C19H20O2	003907-67-3	38
3	1,3-Diamino-8,9-dichloro-5,6-dih...	280	C12H10Cl2N4	037436-48-9	38
4	6-Benzo(a)pyrenecarboxaldehyde	280	C21H12O	013312-42-0	30
5	Benzene, 1,2-bis(2-pyridin-2-yle...	280	C20H12N2	350587-04-1	30





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

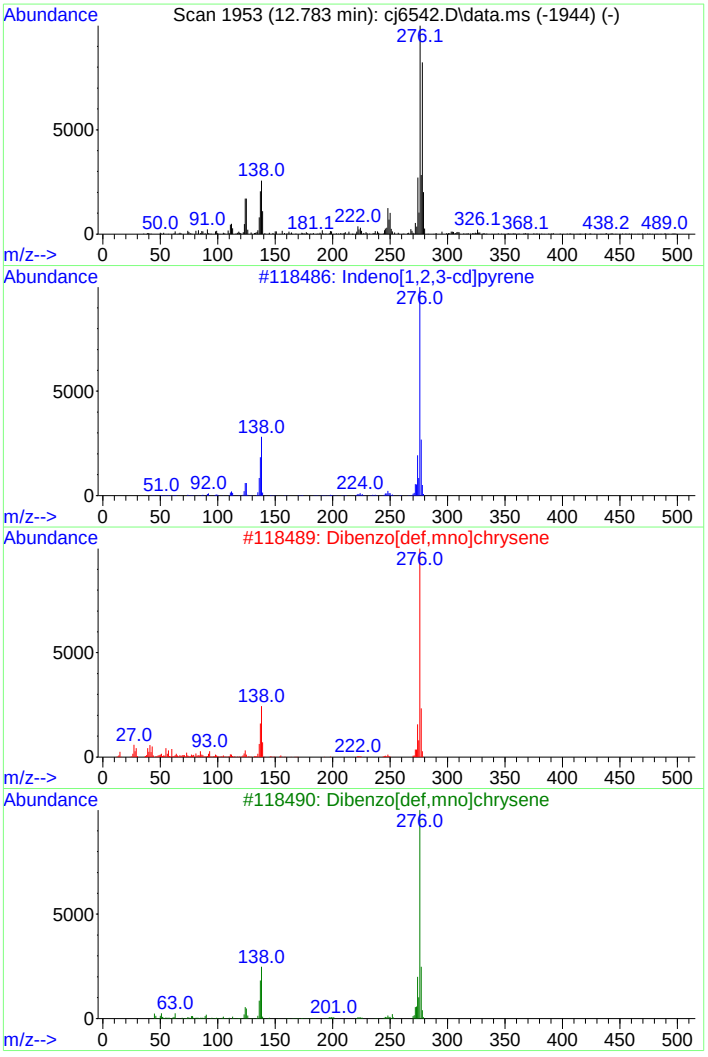
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

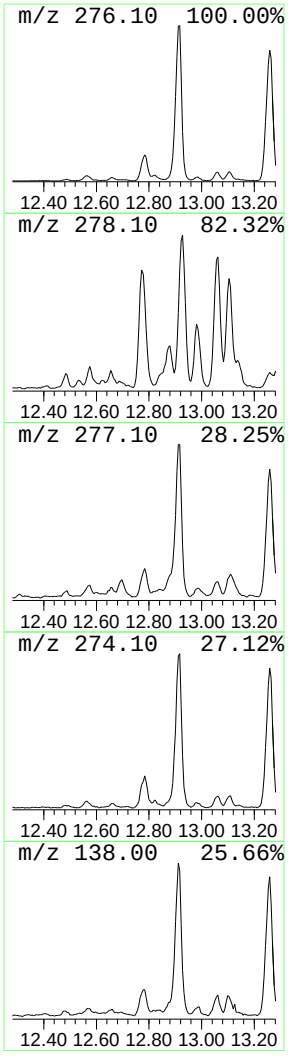
****

Peak Number 20 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.783	12.87 ppm	826809	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	89
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	86
3	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	55
4	Pyrene, 1-phenyl-	278	C22H14	005101-27-9	55
5	Benzo[ghi]perylene	276	C22H12	000191-24-2	50





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

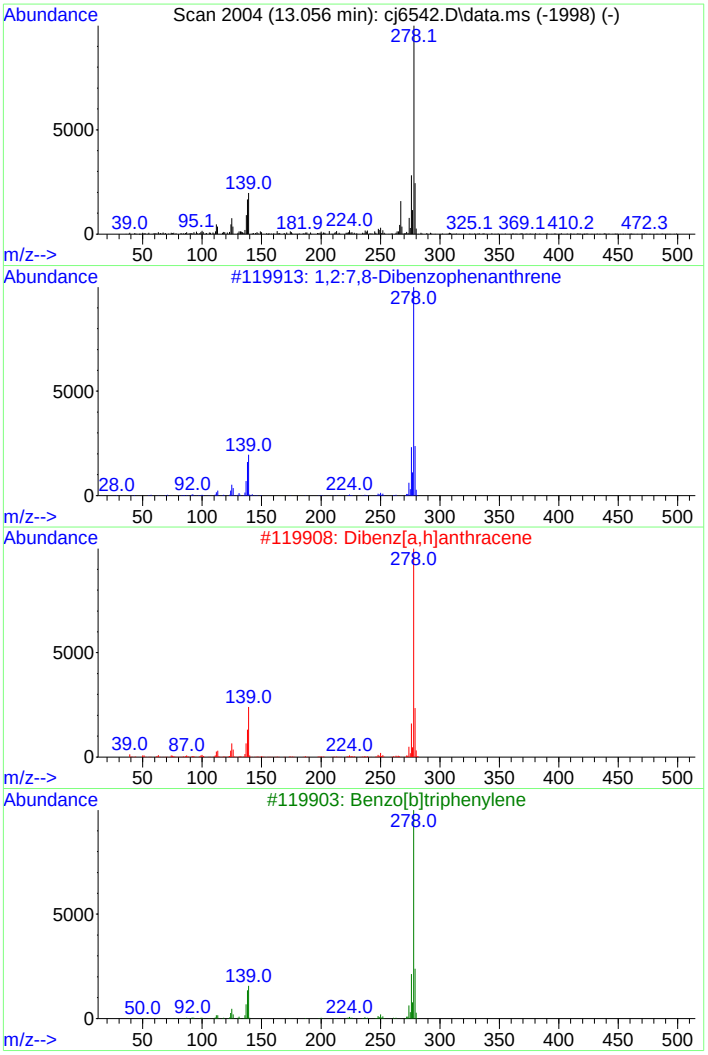
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

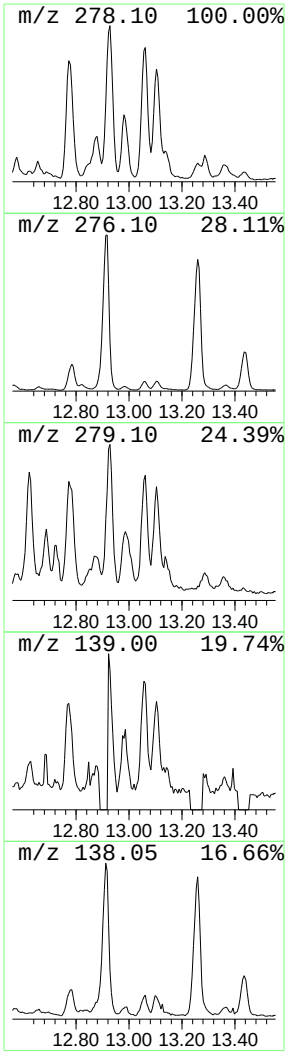
****

Peak Number 21 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.056	8.99 ppm	577501	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	98
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	96
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
4	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	95
5	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	95





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

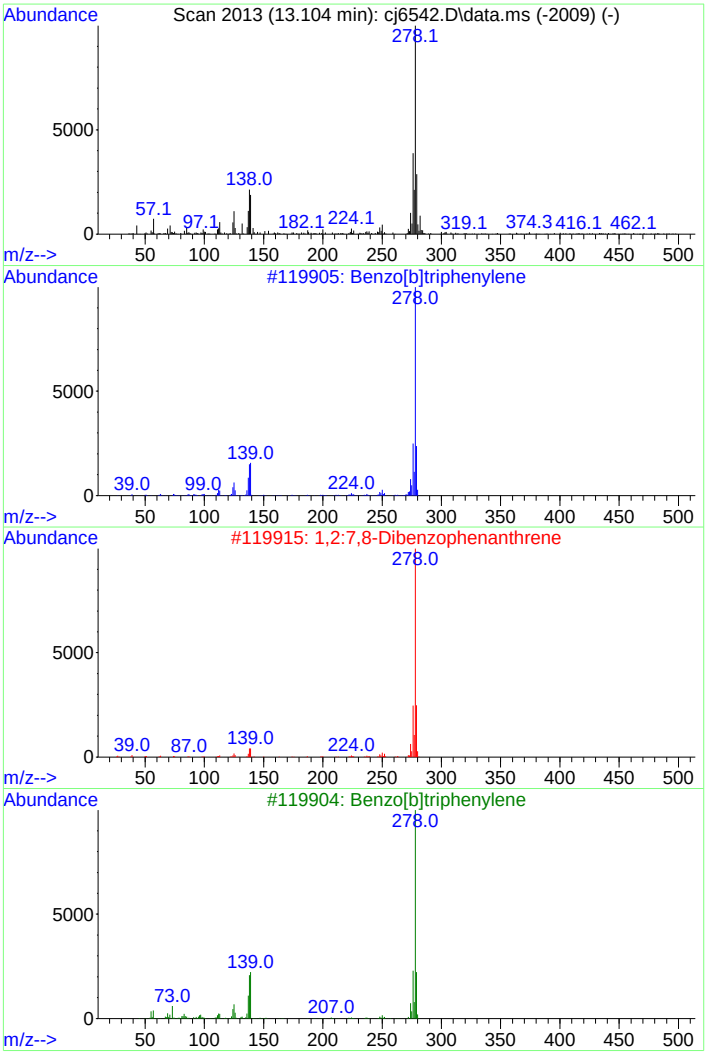
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

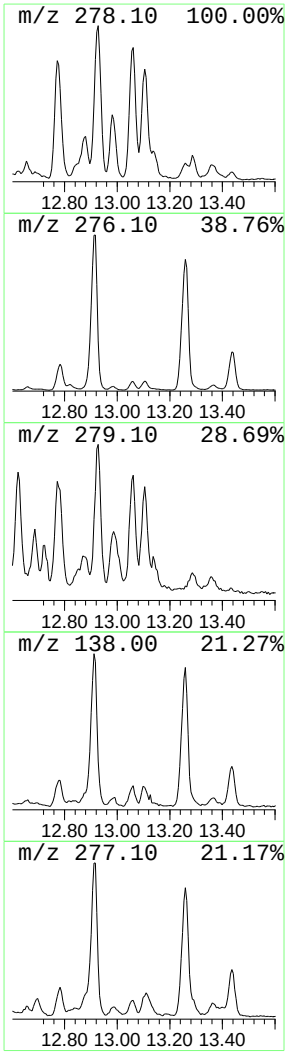
****

Peak Number 22 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.104	8.22 ppm	527969	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
2	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	86
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	83
4	Benzo[b]chrysene	278	C22H14	000214-17-5	78
5	Pyrene, 1-phenyl-	278	C22H14	005101-27-9	78





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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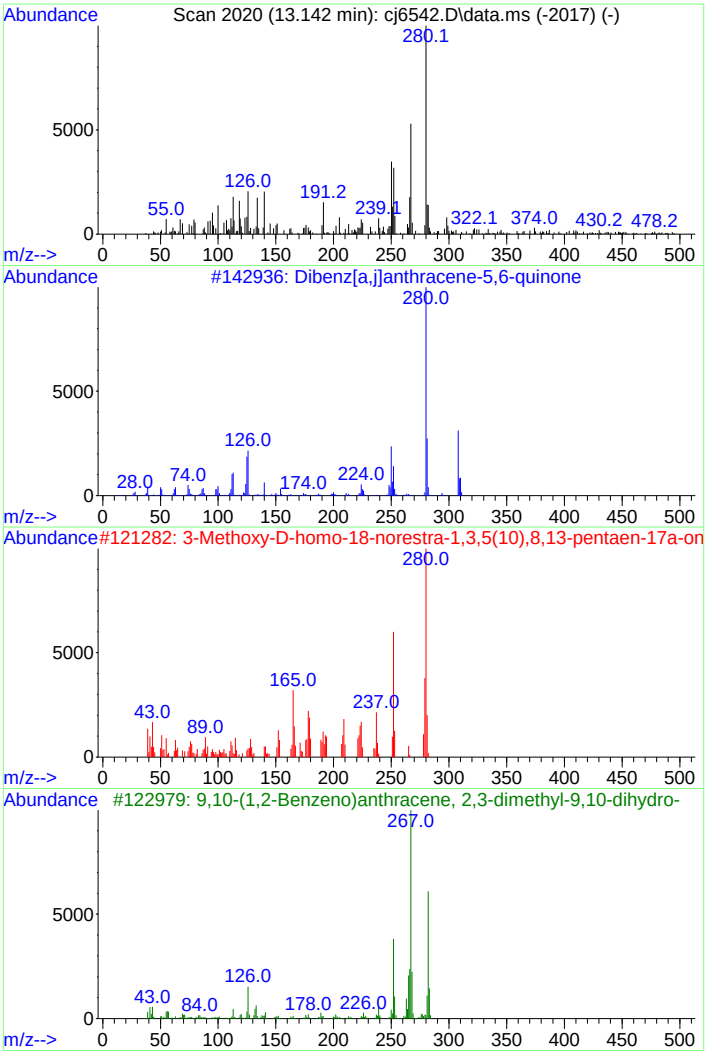
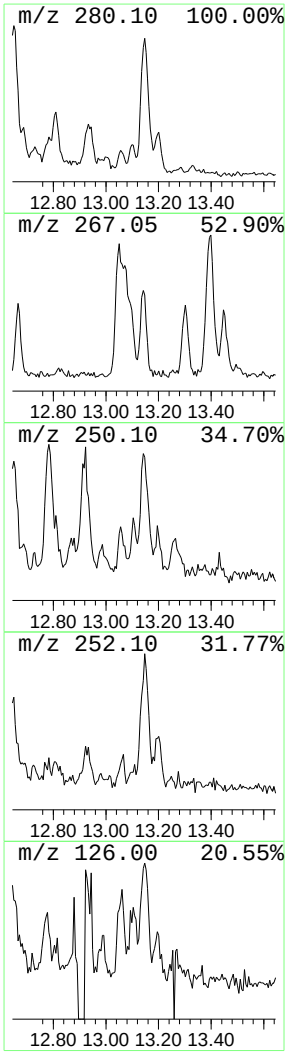
Peak Number 23 Unknown Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.142	5.74 ppm	368875	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz[a,j]anthracene-5,6-quinone	308	C22H12O2	052755-66-5	50
2	3-Methoxy-D-homo-18-norestra-1,3...	280	C19H20O2	021070-83-7	41
3	9,10-(1,2-Benzeno)anthracene, 2,...	282	C22H18	027884-45-3	41
4	3-Hydroxy-D-homoestra-1,3,5(10),...	280	C19H20O2	1000215-90-6	38
5	4,5-Ethylene-8,9-dimethoxy-4,5-d...	267	C17H17NO2	107208-75-3	30





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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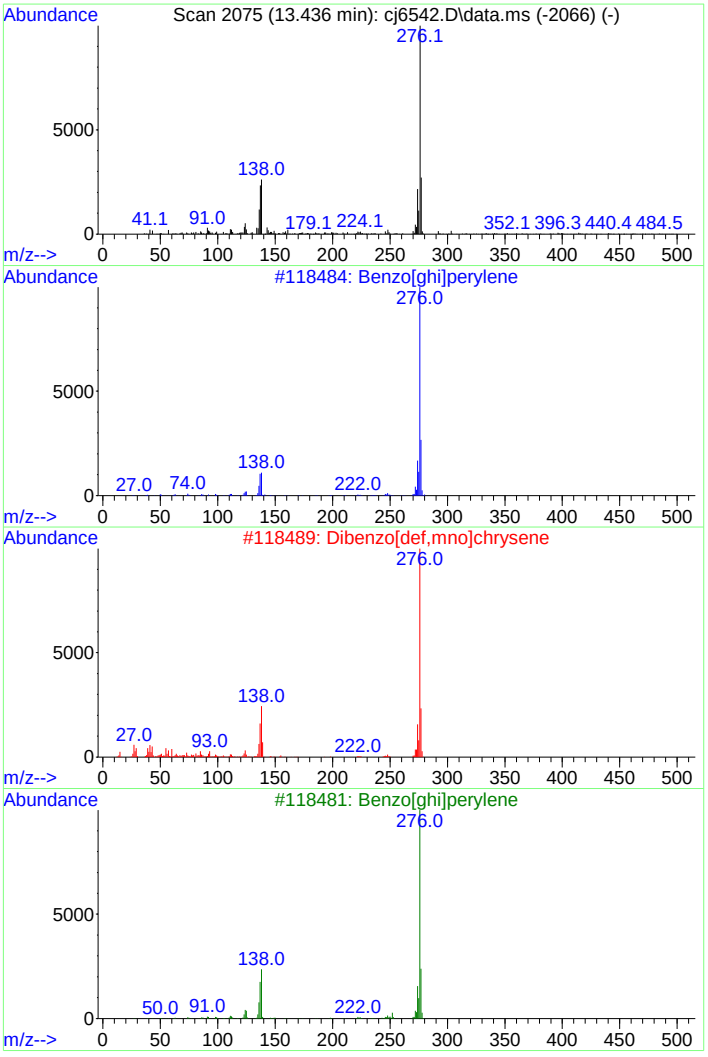
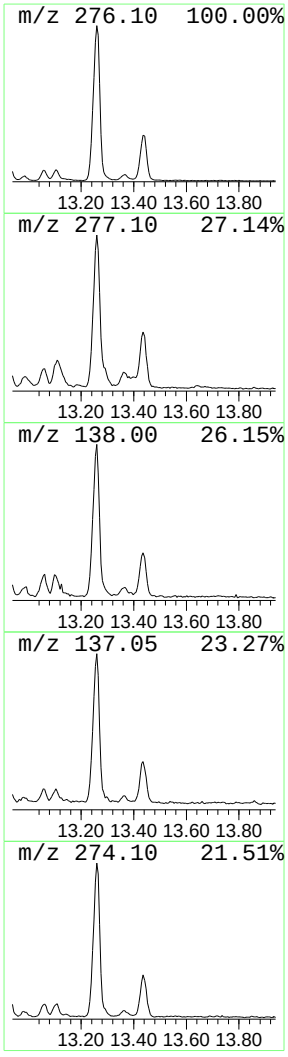
Peak Number 24 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.436	17.53 ppm	1125920	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	95
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	93
3	Benzo[ghi]perylene	276	C22H12	000191-24-2	93
4	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	90
5	Benzo[ghi]perylene	276	C22H12	000191-24-2	89





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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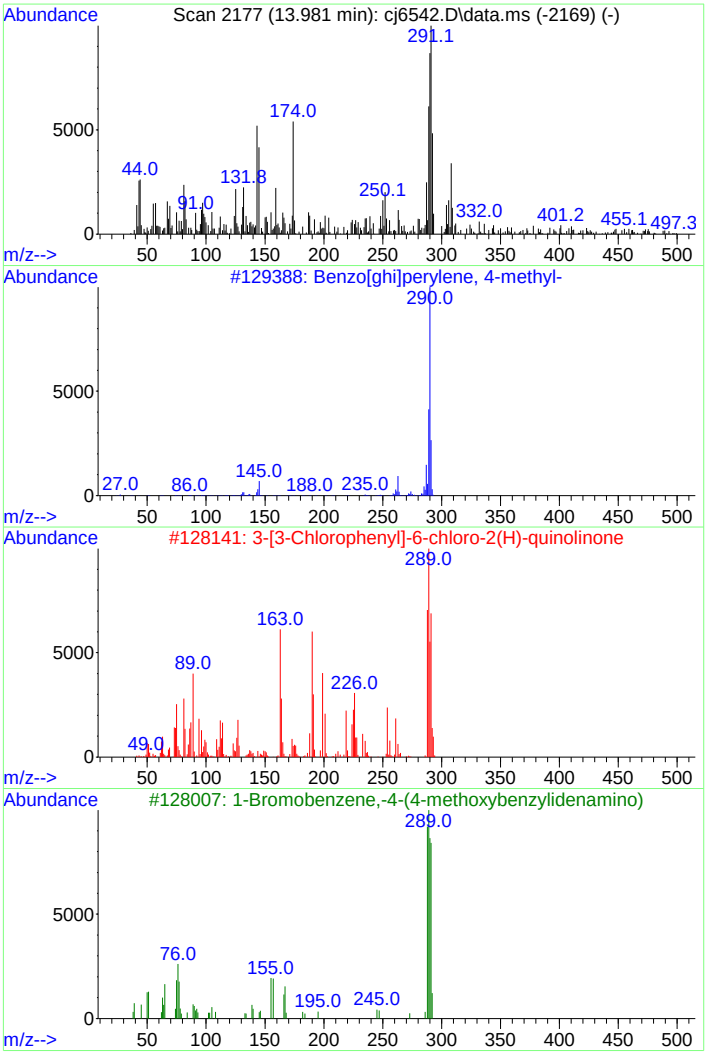
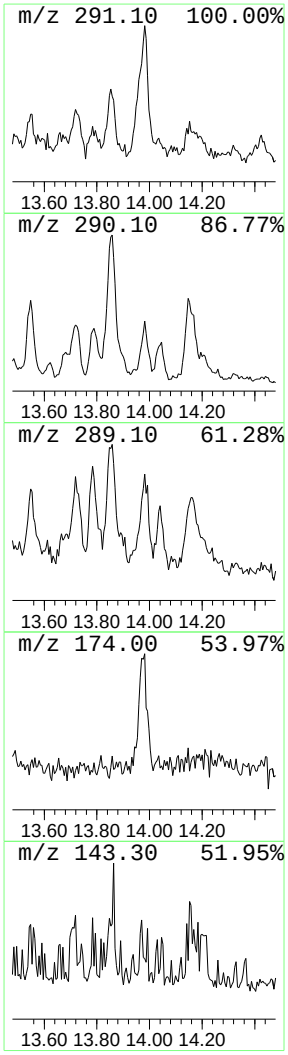
Peak Number 25 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.981	6.81 ppm	437477	Perylene-d12	11.724

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene, 4-methyl-	290	C23H14	019224-38-5	27
2	3-[3-Chlorophenyl]-6-chloro-2(H)...	289	C15H9Cl2NO	1000253-83-5	25
3	1-Bromobenzene,-4-(4-methoxybenz...	289	C14H12BrNO	1000221-92-5	18
4	10-Cyclohexyl-2,3-dihydro-1H-pyr...	290	C20H22N2	157056-89-8	14
5	Benzene, 1-methyl-2-(1-naphthylm...	290	C18H14N2O2	1000263-22-5	14





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6542.D
Acq On : 10 May 2024 01:32 am
Operator : rocquans
Sample : jd87833-15
Misc : op54460,ecj297,31.7,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.252	11.4	ppm	570486	2	4.669	2008680	40.0
Unknown	4.487	5.5	ppm	278209	2	4.669	2008680	40.0
Unknown	4.824	4.5	ppm	225226	2	4.669	2008680	40.0
Anthracene, methyl	8.322	6.4	ppm	485432	8	7.873	3047240	40.0
Phenanthrene, m...	8.349	4.8	ppm	366371	8	7.873	3047240	40.0
4H-Cyclopenta[d...	8.424	17.7	ppm	1345160	8	7.873	3047240	40.0
Unknown	8.601	8.6	ppm	655444	8	7.873	3047240	40.0
Phenanthrene, d...	8.836	5.6	ppm	428579	8	7.873	3047240	40.0
Unknown	8.911	5.7	ppm	433638	8	7.873	3047240	40.0
Fluoranthene, m...	9.521	7.5	ppm	1368160	9	10.371	7286490	40.0
Unknown	10.467	4.7	ppm	849615	10	10.371	7286490	40.0
Unknown	11.050	6.8	ppm	435480	11	11.724	2569320	40.0
Unknown	11.216	7.4	ppm	474113	11	11.724	2569320	40.0
Unknown PHA Sub...	11.451	13.3	ppm	852660	11	11.724	2569320	40.0
Unknown	11.532	5.7	ppm	363283	11	11.724	2569320	40.0
Unknown PHA Sub...	11.617	32.7	ppm	2098500	11	11.724	2569320	40.0
Unknown	11.879	7.6	ppm	489636	11	11.724	2569320	40.0
Unknown	12.179	4.7	ppm	298937	11	11.724	2569320	40.0
Unknown	12.655	13.9	ppm	892588	11	11.724	2569320	40.0
Unknown	12.783	12.9	ppm	826809	11	11.724	2569320	40.0
Unknown	13.056	9.0	ppm	577501	11	11.724	2569320	40.0
Unknown	13.104	8.2	ppm	527969	11	11.724	2569320	40.0
Unknown	13.142	5.7	ppm	368875	11	11.724	2569320	40.0
Unknown	13.436	17.5	ppm	1125920	11	11.724	2569320	40.0
Unknown	13.981	6.8	ppm	437477	11	11.724	2569320	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Ying Li
05/13/24 16:17

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj302\
Data File : cj6681.D
Acq On : 13 May 2024 10:23 am
Operator : kaleigh
Sample : jd87833-15 Inst : GCMSCJ
Misc : op54460,ecj302,31.7,,,1,5
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 17:30:10 2024
Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Mon May 13 16:52:36 2024
Response via : Initial Calibration

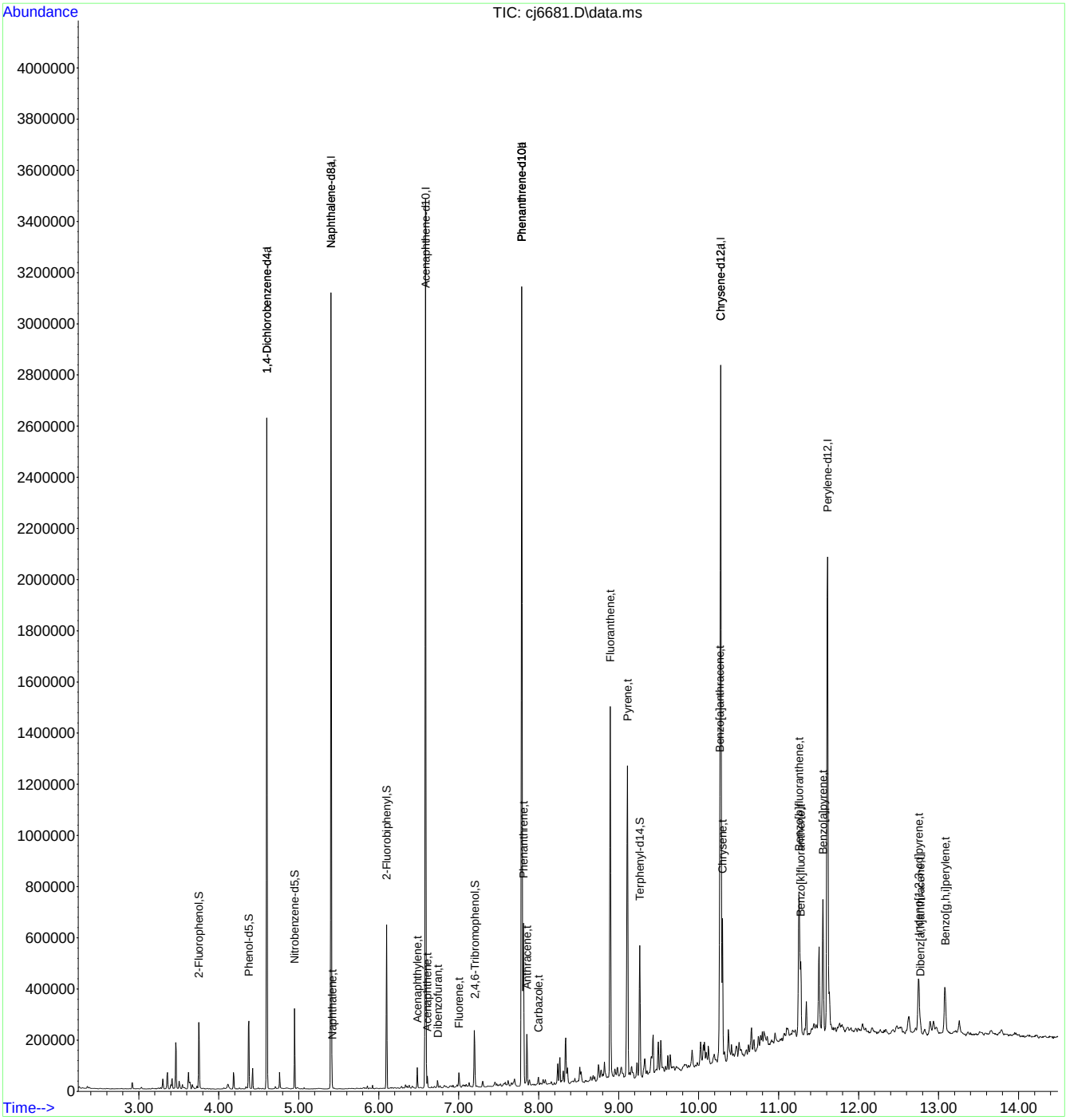
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.601	152	248539	40.00	ppm	0.00
24) Naphthalene-d8	5.403	136	902996	40.00	ppm	0.00
46) Acenaphthene-d10	6.585	164	516050	40.00	ppm	0.00
69) Phenanthrene-d10	7.789	188	929339	40.00	ppm	0.00
84) Chrysene-d12	10.276	240	702274	40.00	ppm	0.00
93) Perylene-d12	11.613	264	684568	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.601	152	248539	40.00	ppm	0.00
105) Phenanthrene-d10a	7.789	188	929339	40.00	ppm	0.00
107) Naphthalene-d8a	5.403	136	902996	40.00	ppm	0.00
109) Phenanthrene-d10b	7.789	188	929339	40.00	ppm	0.00
112) Chrysene-d12a	10.276	240	702274	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.750	112	47458	6.64	ppm	0.00
Spiked Amount 50.000			Recovery =	13.28%		
8) Phenol-d5	4.376	99	64939	7.05	ppm	0.00
Spiked Amount 50.000			Recovery =	14.10%		
25) Nitrobenzene-d5	4.949	82	61962	6.70	ppm	0.00
Spiked Amount 50.000			Recovery =	13.40%		
51) 2-Fluorobiphenyl	6.099	172	121485	7.48	ppm	0.00
Spiked Amount 50.000			Recovery =	14.96%		
74) 2,4,6-Tribromophenol	7.200	330	17121	8.40	ppm	0.00
Spiked Amount 50.000			Recovery =	16.80%		
87) Terphenyl-d14	9.265	244	138306	7.97	ppm	0.00
Spiked Amount 50.000			Recovery =	15.94%		
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
38) Naphthalene	5.419	128	3975	0.1838	ppm	98
56) Acenaphthylene	6.484	152	25232	1.2606	ppm	98
59) Acenaphthene	6.607	153	8421	0.5916	ppm	89
62) Dibenzofuran	6.740	168	6595	0.3339	ppm	96
66) Fluorene	7.002	166	12911m	0.8274	ppm	
78) Phenanthrene	7.810	178	187942	8.3680	ppm	99
79) Anthracene	7.853	178	61413	2.7308	ppm	99
80) Carbazole	7.997	167	9082	0.4334	ppm	98
82) Fluoranthene	8.896	202	495195	20.3658	ppm	98
86) Pyrene	9.110	202	436125	18.2607	ppm	98
89) Benzo[a]anthracene	10.265	228	227721	10.0851	ppm	96
91) Chrysene	10.297	228	186381	8.9465	ppm	97
95) Benzo[b]fluoranthene	11.255	252	259921m	12.5688	ppm	
96) Benzo[k]fluoranthene	11.276	252	75379m	4.0508	ppm	
97) Benzo[a]pyrene	11.554	252	181566	10.6059	ppm	98
98) Indeno[1,2,3-cd]pyrene	12.752	276	116921	5.6495	ppm	95
100) Dibenz[a,h]anthracene	12.774	278	28100	1.6993	ppm	92
102) Benzo[g,h,i]perylene	13.084	276	109029	6.7792	ppm	97

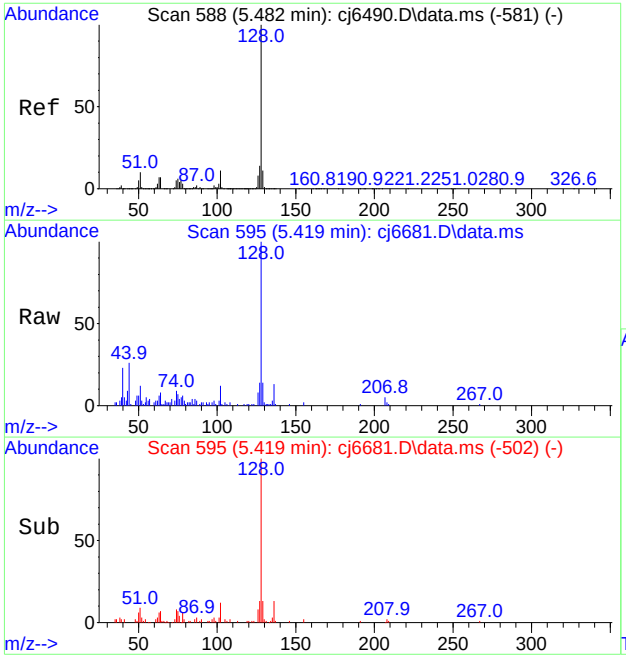
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\nerirose\ecj302\
Data File : cj6681.D
Acq On : 13 May 2024 10:23 am
Operator : kaleigh
Sample : jd87833-15 Inst : GCMSCJ
Misc : op54460,ecj302,31.7,,,1,5
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 17:30:10 2024
Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Mon May 13 16:52:36 2024
Response via : Initial Calibration

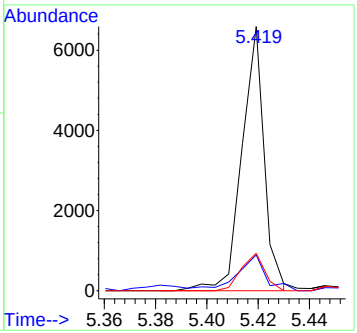


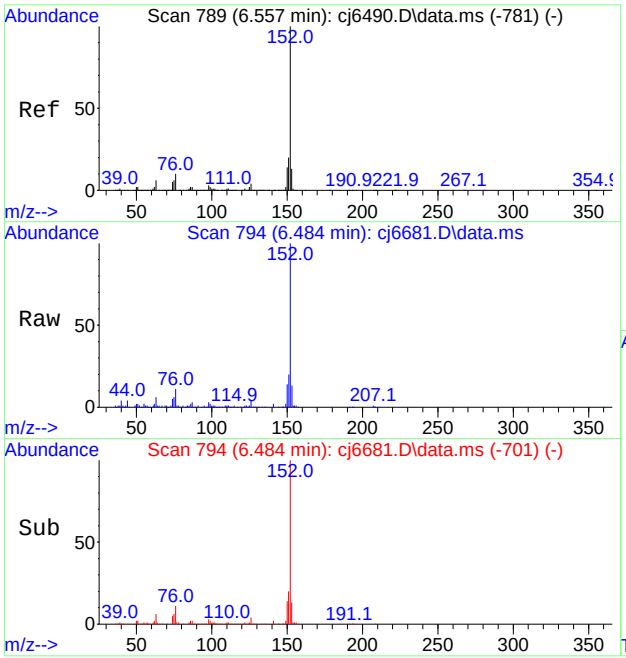


#38
Naphthalene
Concen: 0.1838 ppm
RT: 5.419 min Scan# 595
Delta R.T. -0.000 min
Lab File: cj6681.D
Acq: 13 May 2024 10:23 am

Tgt Ion:128 Resp: 3975

Ion	Ratio	Lower	Upper
128	100		
129	11.2	0.0	41.4
127	14.4	0.0	43.4

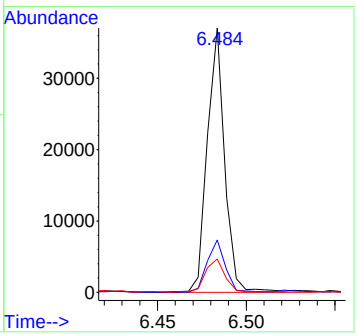


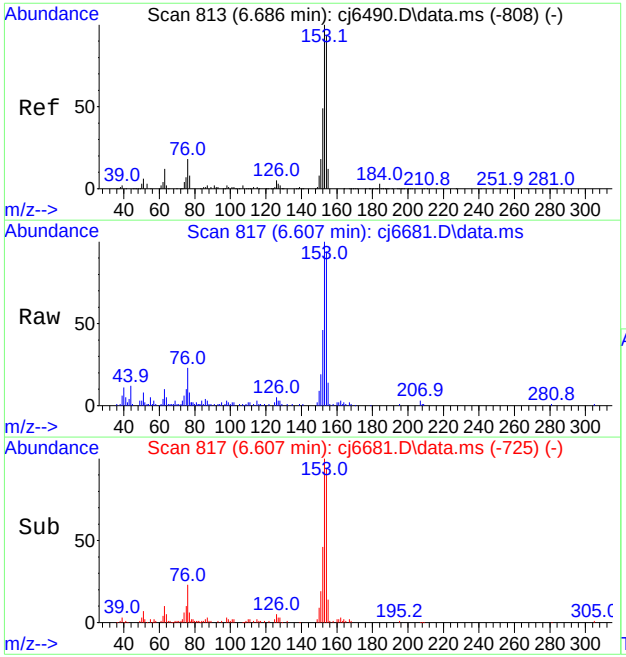


#56
Acenaphthylene
Concen: 1.2606 ppm
RT: 6.484 min Scan# 794
Delta R.T. -0.000 min
Lab File: cj6681.D
Acq: 13 May 2024 10:23 am

Tgt Ion:152 Resp: 25232

Ion	Ratio	Lower	Upper
152	100		
151	19.5	0.0	50.2
153	12.6	0.0	43.2

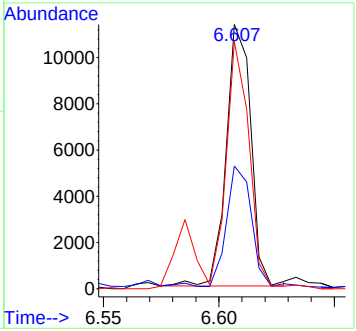


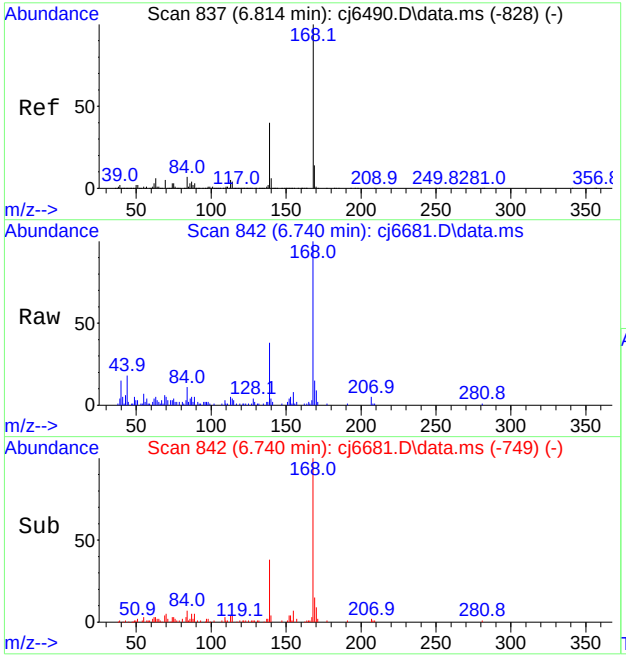


#59
Acenaphthene
Concen: 0.5916 ppm
RT: 6.607 min Scan# 817
Delta R.T. -0.006 min
Lab File: cj6681.D
Acq: 13 May 2024 10:23 am

Tgt Ion:153 Resp: 8421

Ion	Ratio	Lower	Upper
153	100		
152	46.0	16.8	76.8
154	94.9	50.5	110.5

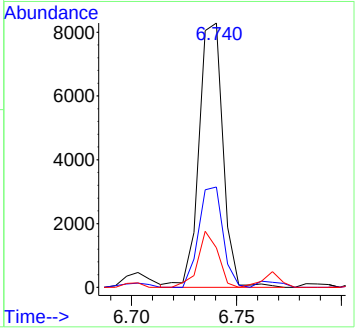


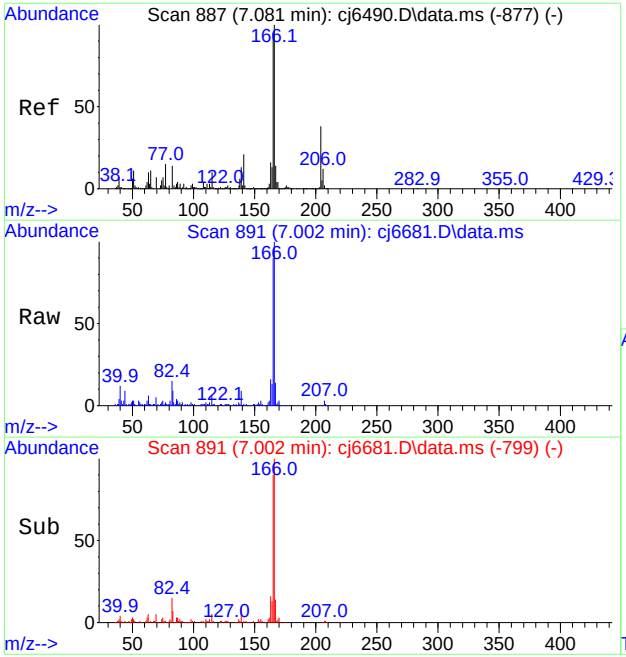


#62
Dibenzofuran
Concen: 0.3339 ppm
RT: 6.740 min Scan# 842
Delta R.T. -0.000 min
Lab File: cj6681.D
Acq: 13 May 2024 10:23 am

Tgt Ion:168 Resp: 6595

Ion	Ratio	Lower	Upper
168	100		
139	37.4	10.6	70.6
169	14.2	0.0	43.4

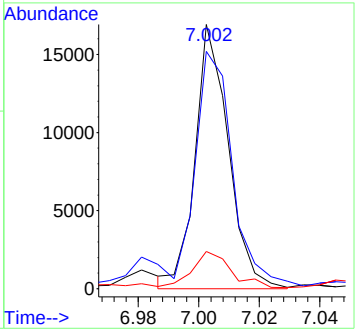


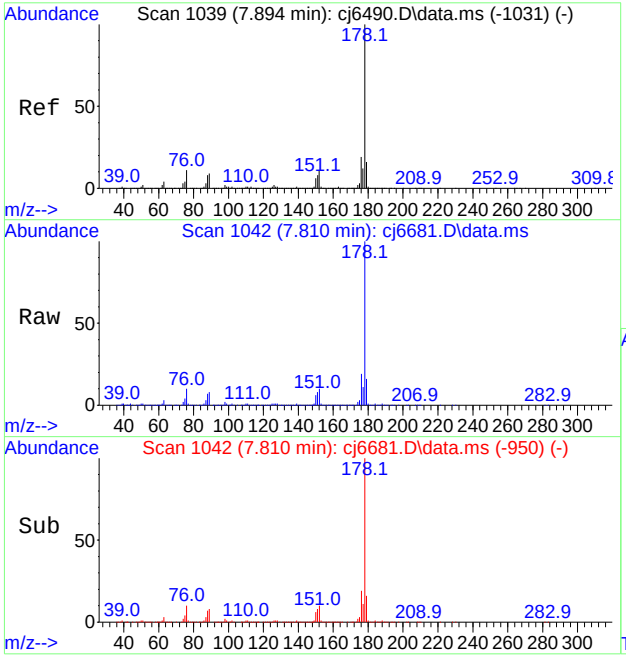


#66
Fluorene
Concen: 0.8274 ppm m
RT: 7.002 min Scan# 891
Delta R.T. -0.006 min
Lab File: cj6681.D
Acq: 13 May 2024 10:23 am

Tgt Ion:166 Resp: 12911

Ion	Ratio	Lower	Upper
166	100		
165	89.8	67.8	127.8
167	14.1	0.0	43.6

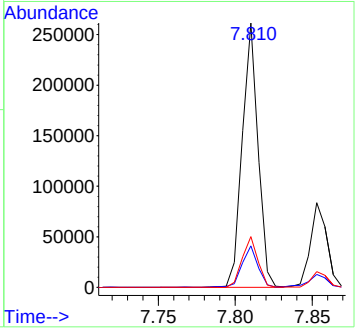


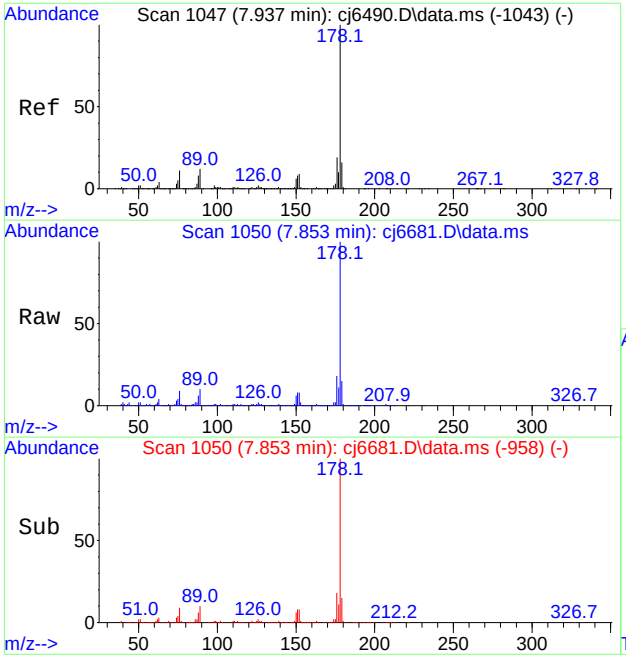


#78
Phenanthrene
Concen: 8.3680 ppm
RT: 7.810 min Scan# 1042
Delta R.T. -0.006 min
Lab File: cj6681.D
Acq: 13 May 2024 10:23 am

Tgt Ion:178 Resp: 187942

Ion	Ratio	Lower	Upper
178	100		
179	15.6	0.0	45.3
176	19.2	0.0	48.8

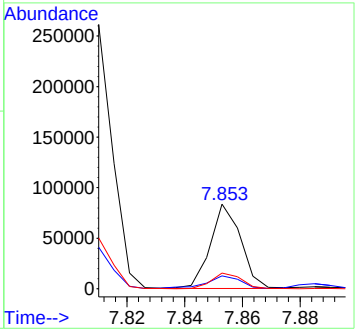


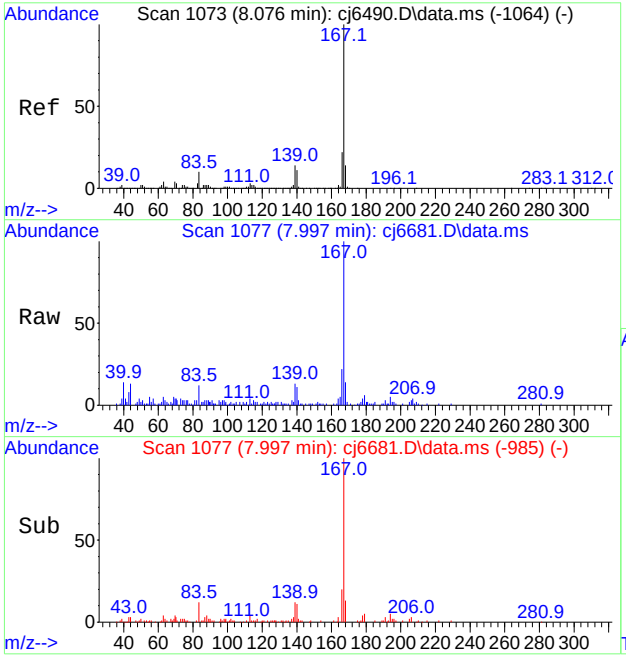


#79
Anthracene
Concen: 2.7308 ppm
RT: 7.853 min Scan# 1050
Delta R.T. -0.006 min
Lab File: cj6681.D
Acq: 13 May 2024 10:23 am

Tgt Ion:178 Resp: 61413

Ion	Ratio	Lower	Upper
178	100		
179	14.5	0.0	45.3
176	18.4	0.0	48.1

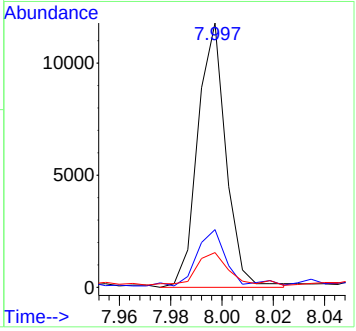


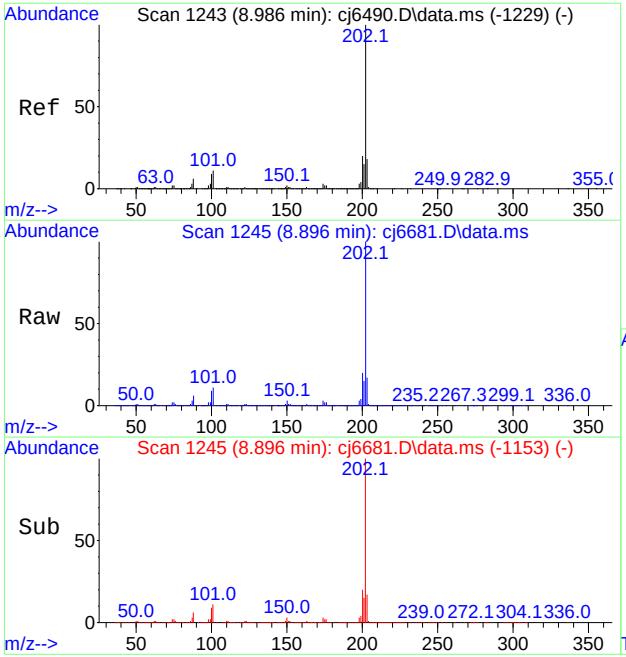


#80
Carbazole
Concen: 0.4334 ppm
RT: 7.997 min Scan# 1077
Delta R.T. -0.006 min
Lab File: cj6681.D
Acq: 13 May 2024 10:23 am

Tgt Ion:167 Resp: 9082

Ion	Ratio	Lower	Upper
167	100		
166	20.7	0.0	51.6
139	12.2	0.0	43.3

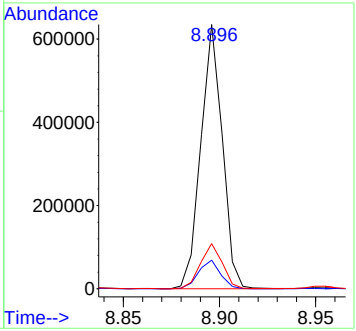


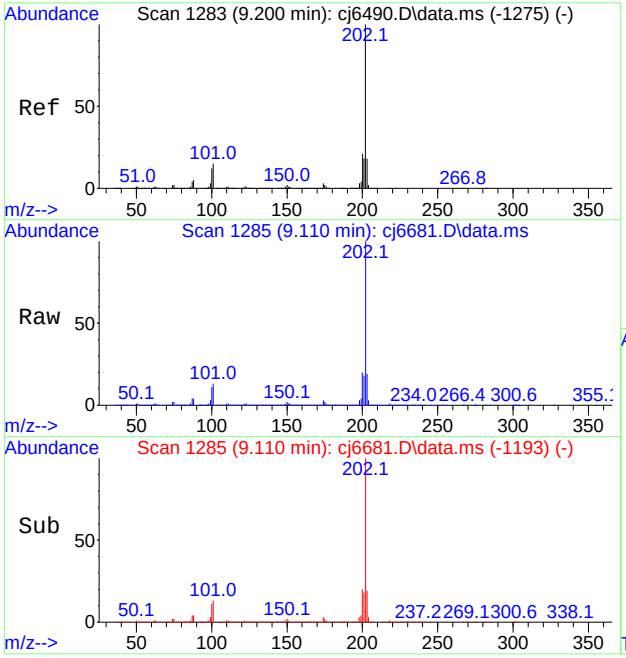


#82
Fluoranthene
Concen: 20.3658 ppm
RT: 8.896 min Scan# 1245
Delta R.T. -0.006 min
Lab File: cj6681.D
Acq: 13 May 2024 10:23 am

Tgt Ion:202 Resp: 495195

Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	40.6
203	17.0	0.0	48.2

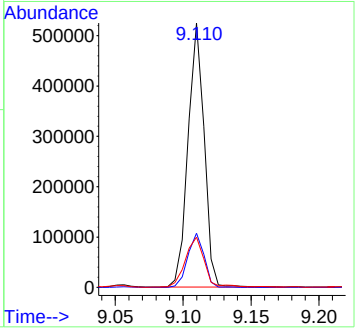


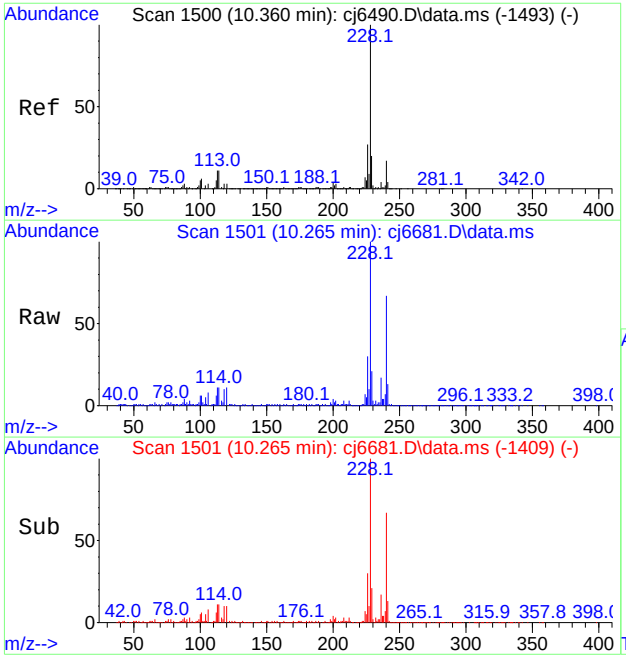


#86
Pyrene
Concen: 18.2607 ppm
RT: 9.110 min Scan# 1285
Delta R.T. -0.006 min
Lab File: cj6681.D
Acq: 13 May 2024 10:23 am

Tgt Ion:202 Resp: 436125

Ion	Ratio	Lower	Upper
202	100		
200	20.4	0.0	51.6
203	18.9	0.0	48.0

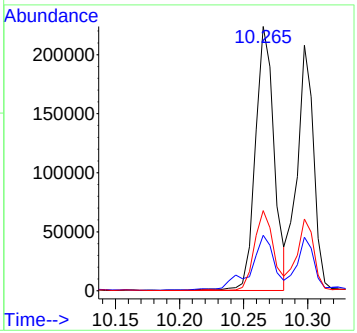


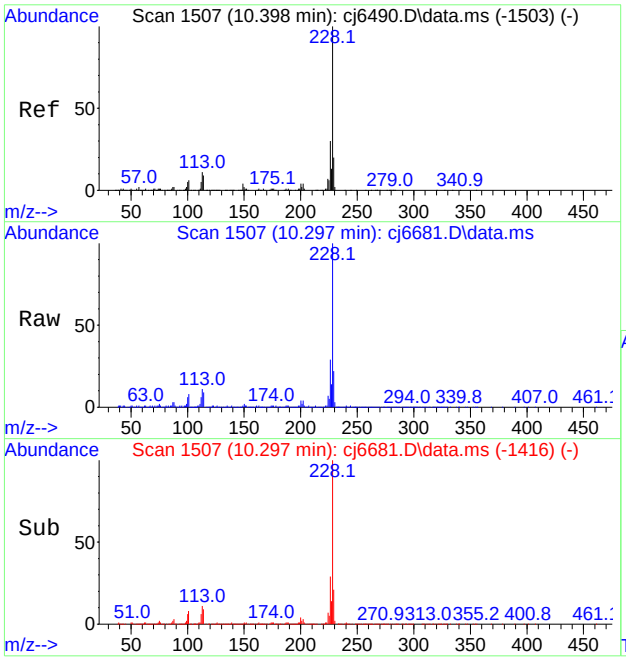


#89
Benzo[a]anthracene
Concen: 10.0851 ppm
RT: 10.265 min Scan# 1501
Delta R.T. -0.006 min
Lab File: cj6681.D
Acq: 13 May 2024 10:23 am

Tgt Ion:228 Resp: 227721

Ion	Ratio	Lower	Upper
228	100		
229	20.6	0.0	49.8
226	30.0	0.0	56.9

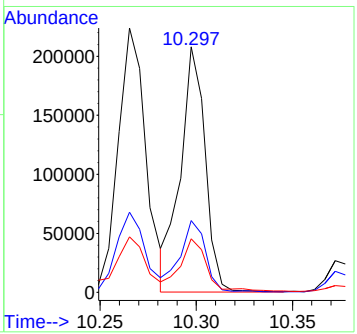


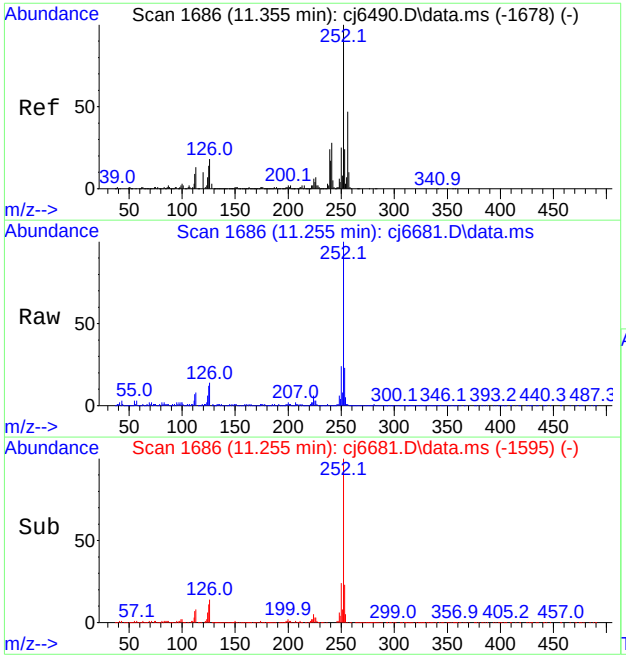


#91
Chrysene
Concen: 8.9465 ppm
RT: 10.297 min Scan# 1507
Delta R.T. -0.011 min
Lab File: cj6681.D
Acq: 13 May 2024 10:23 am

Tgt Ion:228 Resp: 186381

Ion	Ratio	Lower	Upper
228	100		
226	28.8	0.1	60.1
229	21.3	0.0	49.6

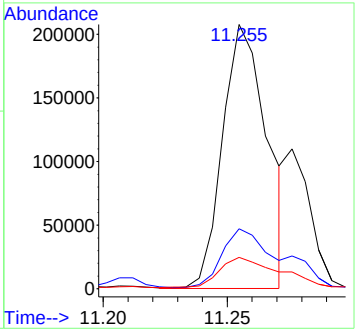


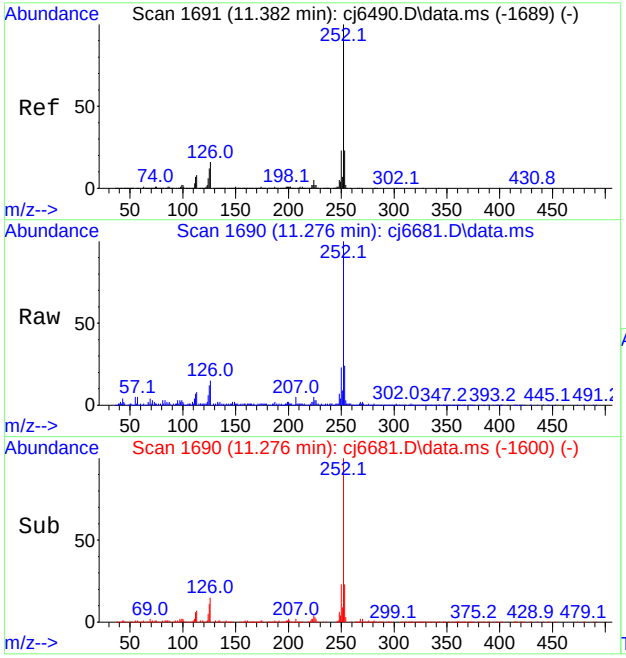


#95
Benzo[b]fluoranthene
Concen: 12.5688 ppm m
RT: 11.255 min Scan# 1686
Delta R.T. -0.011 min
Lab File: cj6681.D
Acq: 13 May 2024 10:23 am

Tgt Ion:252 Resp: 259921

Ion	Ratio	Lower	Upper
252	100		
253	22.7	0.0	52.9
125	11.8	0.0	39.9

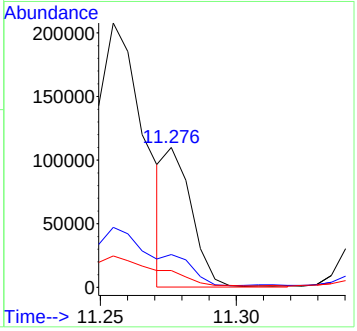


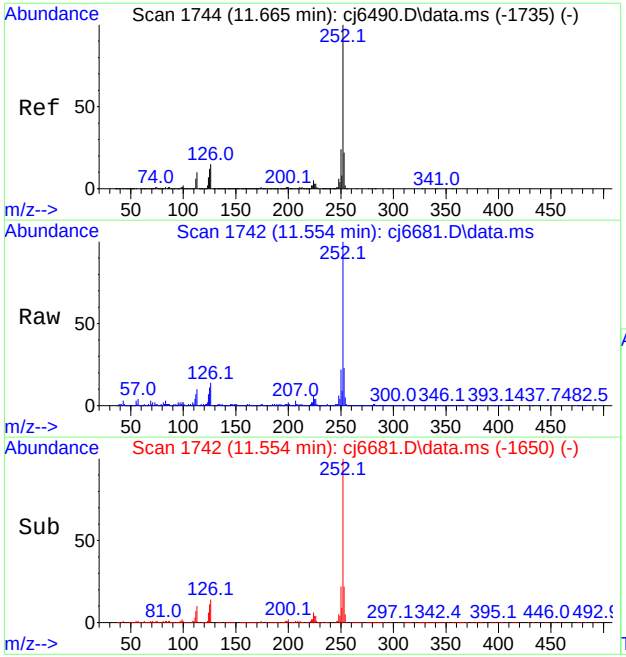


#96
Benzo[k]fluoranthene
Concen: 4.0508 ppm m
RT: 11.276 min Scan# 1690
Delta R.T. -0.017 min
Lab File: cj6681.D
Acq: 13 May 2024 10:23 am

Tgt Ion:252 Resp: 75379

Ion	Ratio	Lower	Upper
252	100		
253	23.6	0.0	52.1
125	12.1	0.0	39.2

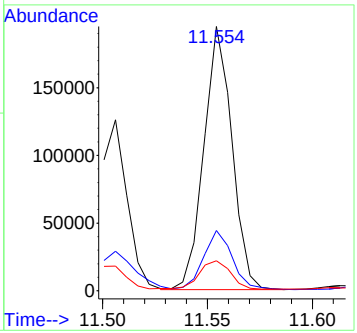


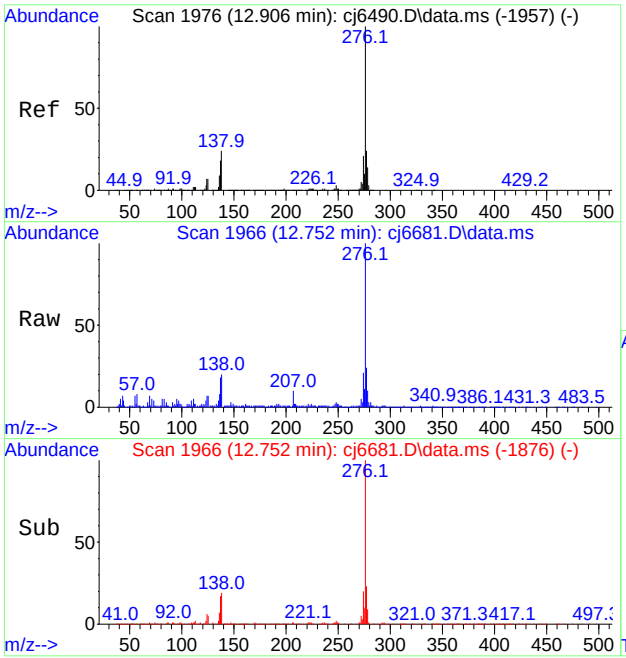


#97
Benzo[a]pyrene
Concen: 10.6059 ppm
RT: 11.554 min Scan# 1742
Delta R.T. -0.006 min
Lab File: cj6681.D
Acq: 13 May 2024 10:23 am

Tgt Ion:252 Resp: 181566

Ion	Ratio	Lower	Upper
252	100		
253	21.8	0.0	51.8
125	10.7	0.0	42.3

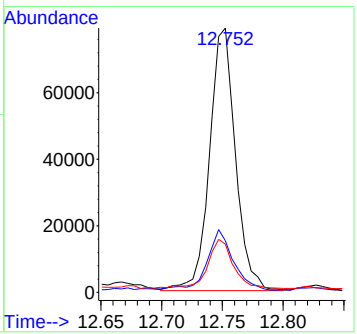


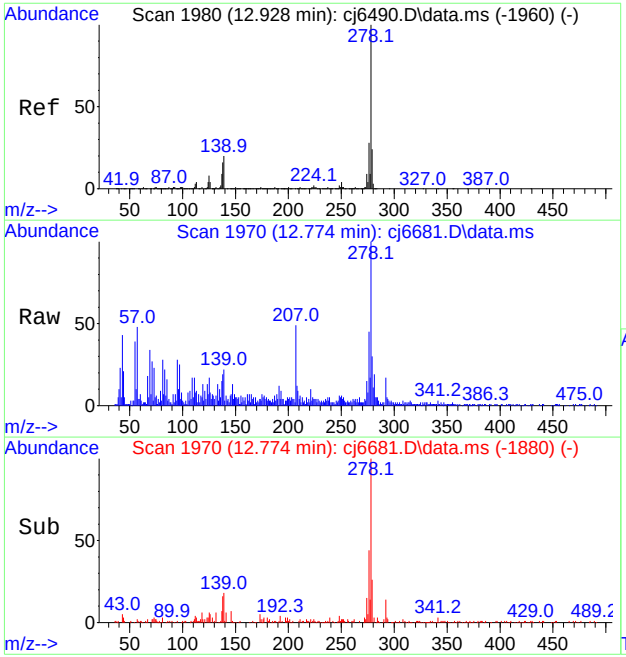


#98
Indeno[1,2,3-cd]pyrene
Concen: 5.6495 ppm
RT: 12.752 min Scan# 1966
Delta R.T. -0.017 min
Lab File: cj6681.D
Acq: 13 May 2024 10:23 am

Tgt Ion:276 Resp: 116921

Ion	Ratio	Lower	Upper
276	100		
138	18.6	0.0	52.4
137	16.7	0.0	46.6

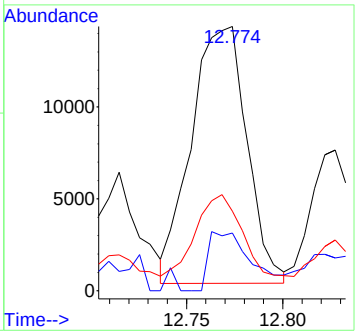


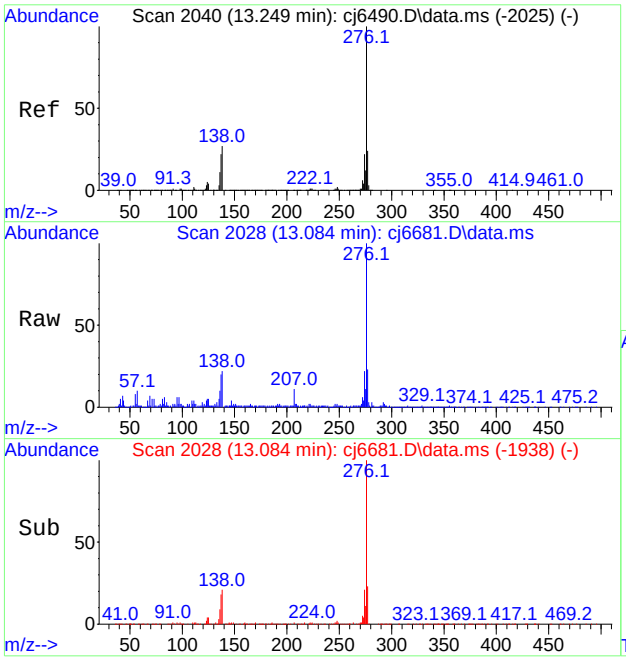


#100
Dibenz[a,h]anthracene
Concen: 1.6993 ppm
RT: 12.774 min Scan# 1970
Delta R.T. -0.017 min
Lab File: cj6681.D
Acq: 13 May 2024 10:23 am

Tgt Ion:278 Resp: 28100

Ion	Ratio	Lower	Upper
278	100		
139	20.9	0.0	47.4
279	27.0	0.0	53.2

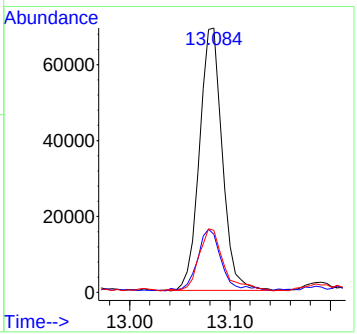




#102
Benzo[g,h,i]perylene
Concen: 6.7792 ppm
RT: 13.084 min Scan# 2028
Delta R.T. -0.016 min
Lab File: cj6681.D
Acq: 13 May 2024 10:23 am

Tgt Ion:276 Resp: 109029

Ion	Ratio	Lower	Upper
276	100		
138	21.2	0.0	53.6
277	22.9	0.0	53.9



Manual Integrations APPROVED
(compounds with "m" flag)
Jon Kreigmor Mamanta
05/13/24 01:29

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6537.D
Acq On : 09 May 2024 11:57 pm
Operator : rocquans
Sample : jd87833-16 Inst : GCMSCJ
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 10 19:47:57 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

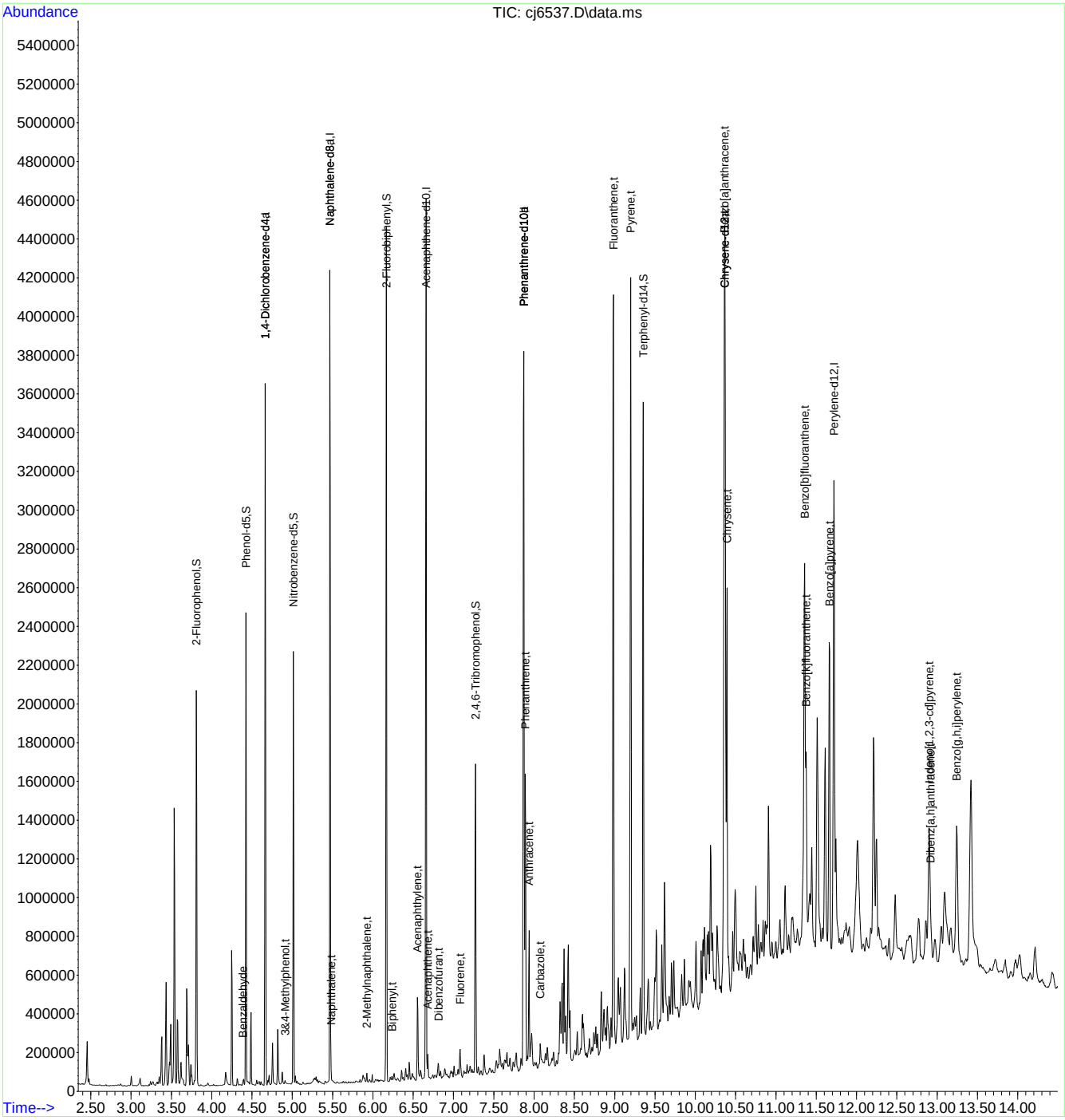
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.664	152	350487	40.00	ppm	0.00
24) Naphthalene-d8	5.466	136	1242220	40.00	ppm	0.00
46) Acenaphthene-d10	6.659	164	702587	40.00	ppm	0.00
69) Phenanthrene-d10	7.873	188	1226551	40.00	ppm	0.00
84) Chrysene-d12	10.366	240	877665	40.00	ppm	0.00
93) Perylene-d12	11.719	264	892449	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.664	152	350487	40.00	ppm	0.00
105) Phenanthrene-d10a	7.873	188	1226551	40.00	ppm	0.00
107) Naphthalene-d8a	5.466	136	1242220	40.00	ppm	0.00
109) Phenanthrene-d10b	7.873	188	1226551	40.00	ppm	0.00
112) Chrysene-d12a	10.366	240	877665	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.808	112	350797	34.82	ppm	0.01
Spiked Amount 50.000			Recovery = 69.64%			
8) Phenol-d5	4.423	99	477714	36.76	ppm	0.00
Spiked Amount 50.000			Recovery = 73.52%			
25) Nitrobenzene-d5	5.012	82	460122	36.18	ppm	0.00
Spiked Amount 50.000			Recovery = 72.36%			
51) 2-Fluorobiphenyl	6.167	172	837534	37.88	ppm	0.00
Spiked Amount 50.000			Recovery = 75.76%			
74) 2,4,6-Tribromophenol	7.274	330	120669	44.87	ppm	0.00
Spiked Amount 50.000			Recovery = 89.74%			
87) Terphenyl-d14	9.355	244	865442	39.91	ppm	0.00
Spiked Amount 50.000			Recovery = 79.82%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
21) 3&4-Methylphenol	4.910	108	2978	0.2978	ppm	77
38) Naphthalene	5.482	128	17876	0.6007	ppm	98
44) 2-Methylnaphthalene	5.926	141	7705	0.4367	ppm	93
53) Biphenyl	6.236	154	5138	0.2128	ppm	95
56) Acenaphthylene	6.552	152	145542	5.3409	ppm	98
59) Acenaphthene	6.680	153	21537	1.1114	ppm	95
62) Dibenzofuran	6.814	168	18786	0.6986	ppm	94
66) Fluorene	7.082	166	36194m	1.7037	ppm	
78) Phenanthrene	7.889	178	471612	15.9101	ppm	99
79) Anthracene	7.937	178	206310	6.9509	ppm	97
80) Carbazole	8.076	167	32020	1.1577	ppm	98
82) Fluoranthene	8.986	202	1476231	46.0012	ppm	99
86) Pyrene	9.200	202	1380707	46.2578	ppm	99
89) Benzo[a]anthracene	10.360	228	775213	27.4712	ppm	97
91) Chrysene	10.392	228	694152	26.6615	ppm	98
95) Benzo[b]fluoranthene	11.355	252	946020m	35.0902	ppm	
96) Benzo[k]fluoranthene	11.377	252	222254m	9.1616	ppm	
97) Benzo[a]pyrene	11.665	252	629163	28.1910	ppm	100
98) Indeno[1,2,3-cd]pyrene	12.901	276	401298	14.8737	ppm	98
100) Dibenz[a,h]anthracene	12.917	278	105024	4.8716	ppm	95
102) Benzo[g,h,i]perylene	13.243	276	363682	17.3457	ppm	100
104) Benzaldehyde	4.386	105	2581	0.2573	ppm	85

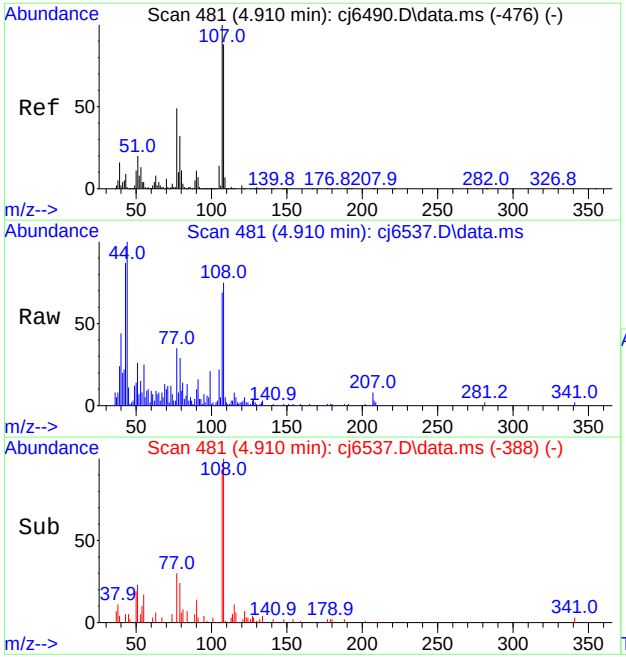
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6537.D
Acq On : 09 May 2024 11:57 pm
Operator : rocquans
Sample : jd87833-16 Inst : GCMSCJ
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 10 19:47:57 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

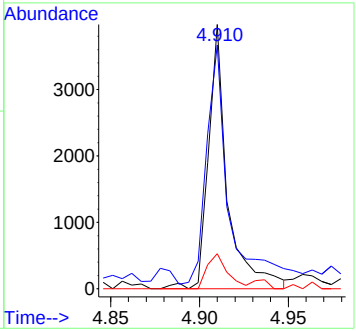


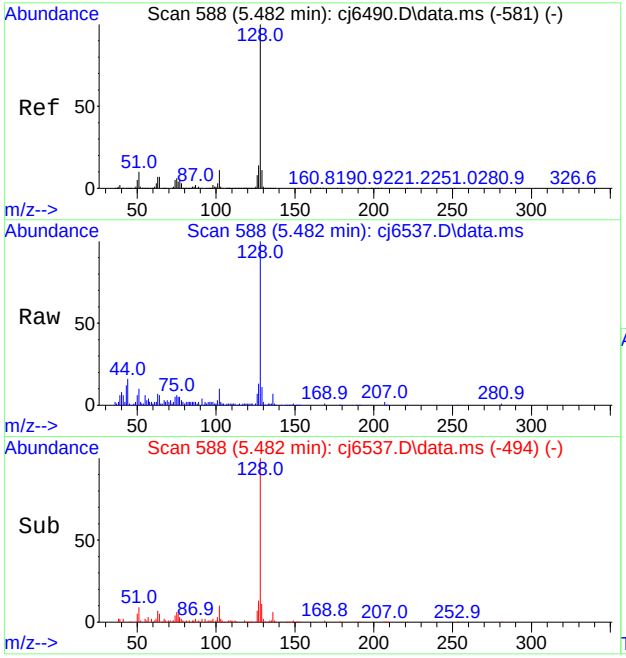


#21
3&4-Methylphenol
Concen: 0.2978 ppm
RT: 4.910 min Scan# 481
Delta R.T. -0.000 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:108 Resp: 2978

Ion	Ratio	Lower	Upper
108	100		
107	86.7	83.2	143.2
90	13.6	0.0	42.4

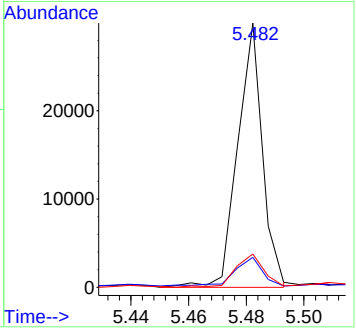


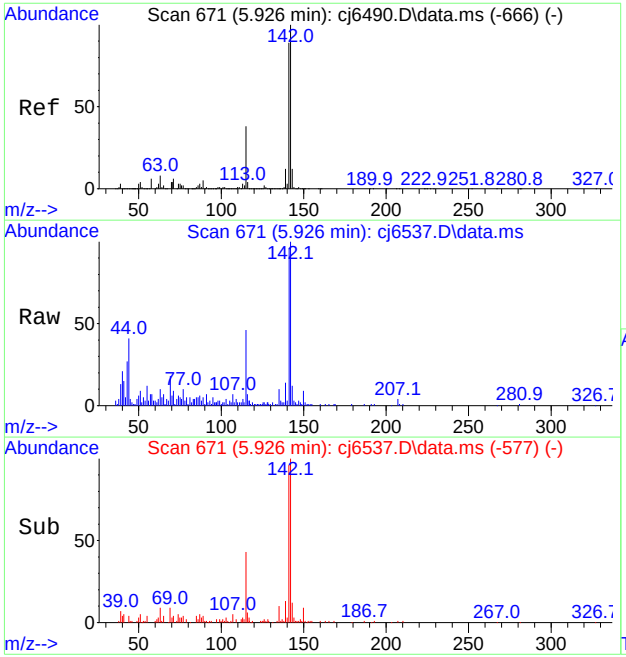


#38
Naphthalene
Concen: 0.6007 ppm
RT: 5.482 min Scan# 588
Delta R.T. 0.000 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:128 Resp: 17876

Ion	Ratio	Lower	Upper
128	100		
129	10.9	0.0	41.4
127	12.2	0.0	43.3

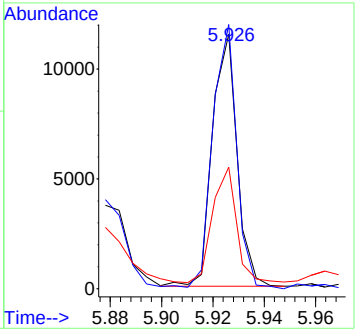


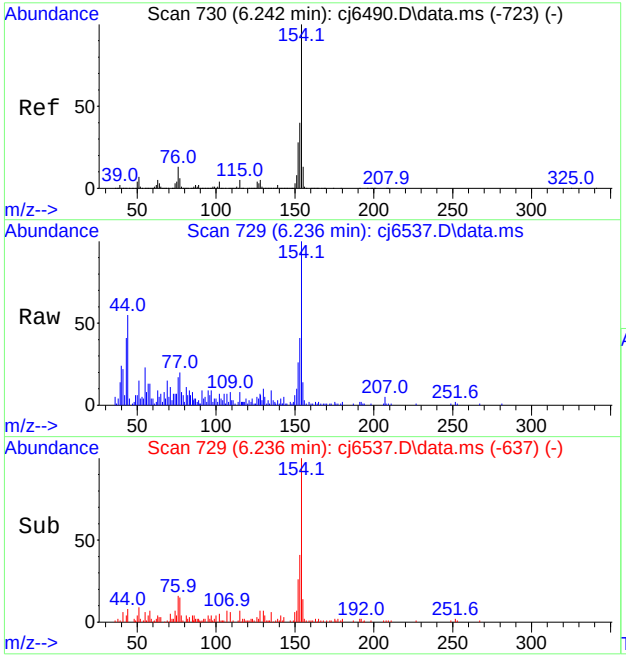


#44
2-Methylnaphthalene
Concen: 0.4367 ppm
RT: 5.926 min Scan# 671
Delta R.T. 0.000 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:141 Resp: 7705

Ion	Ratio	Lower	Upper
141	100		
142	104.6	82.7	142.7
115	45.0	12.4	72.4

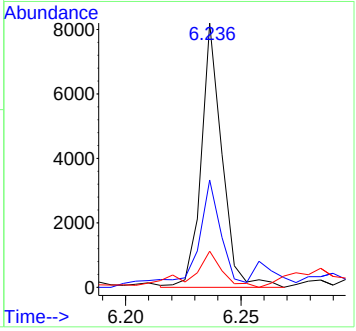


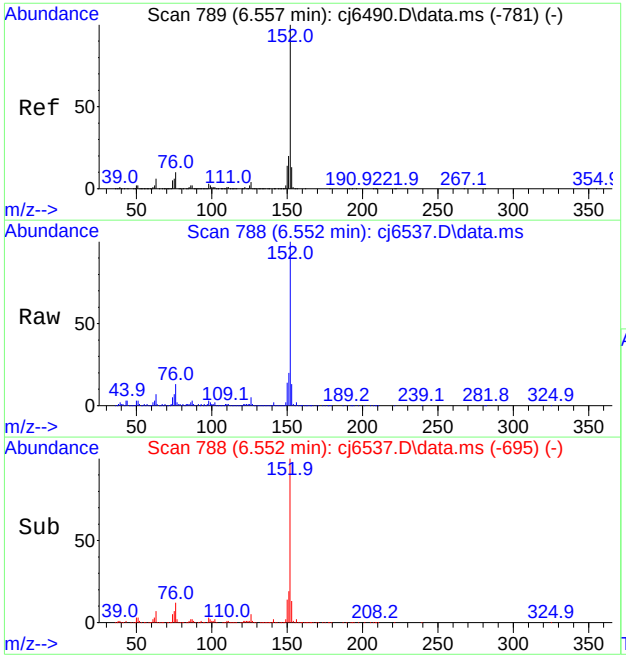


#53
Biphenyl
Concen: 0.2128 ppm
RT: 6.236 min Scan# 729
Delta R.T. -0.006 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:154 Resp: 5138

Ion	Ratio	Lower	Upper
154	100		
153	37.3	10.5	70.5
155	10.3	0.0	42.8

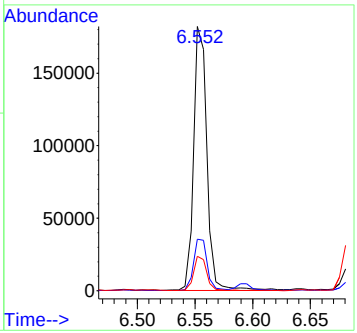


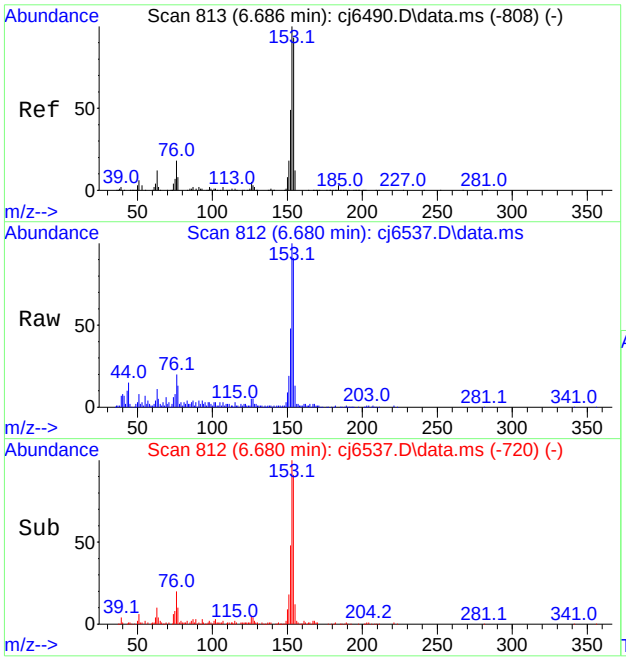


#56
Acenaphthylene
Concen: 5.3409 ppm
RT: 6.552 min Scan# 788
Delta R.T. -0.005 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:152 Resp: 145542

Ion	Ratio	Lower	Upper
152	100		
151	19.4	0.0	50.3
153	12.9	0.0	43.4

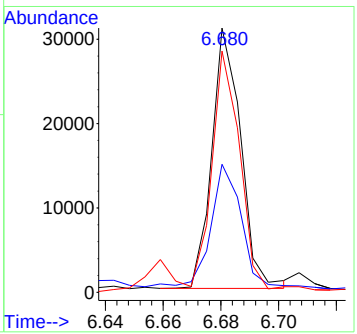


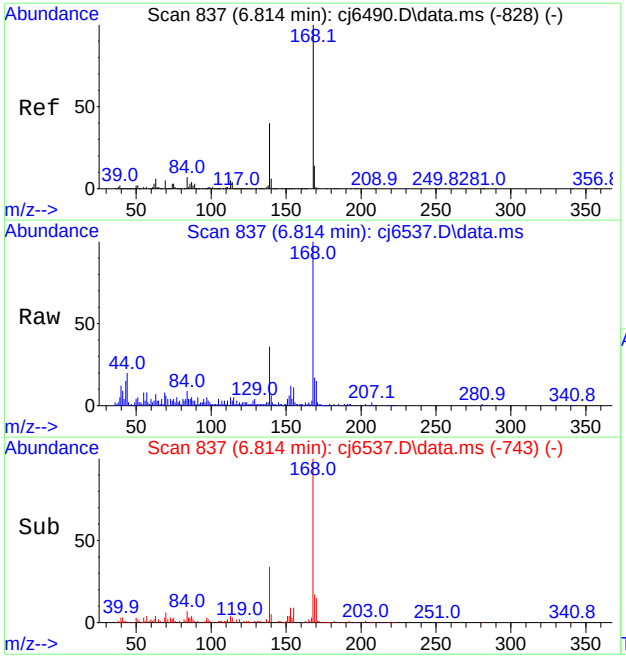


#59
Acenaphthene
Concen: 1.1114 ppm
RT: 6.680 min Scan# 812
Delta R.T. -0.006 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:153 Resp: 21537

Ion	Ratio	Lower	Upper
153	100		
152	47.0	18.8	78.8
154	86.5	62.9	122.9

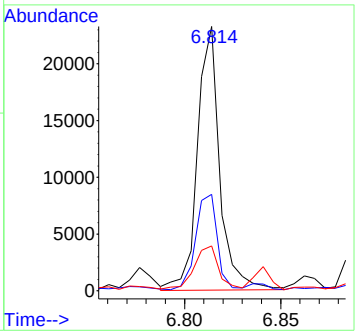


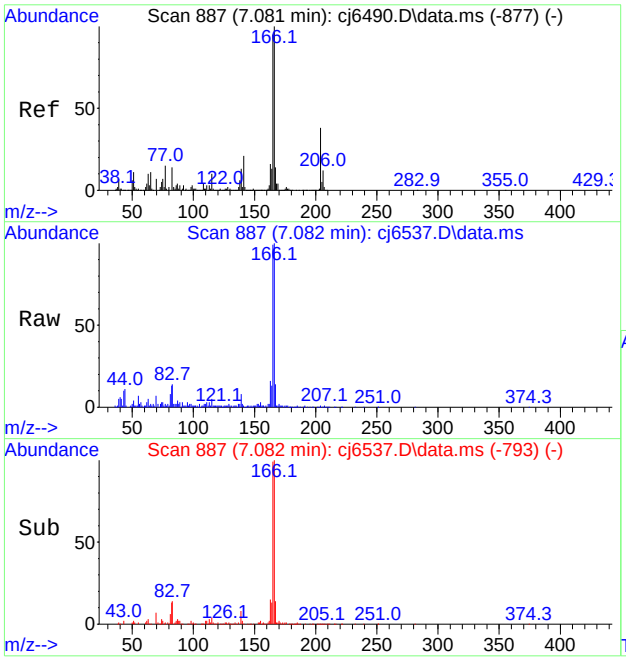


#62
Dibenzofuran
Concen: 0.6986 ppm
RT: 6.814 min Scan# 837
Delta R.T. 0.000 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:168 Resp: 18786

Ion	Ratio	Lower	Upper
168	100		
139	36.4	10.0	70.0
169	16.7	0.0	43.7

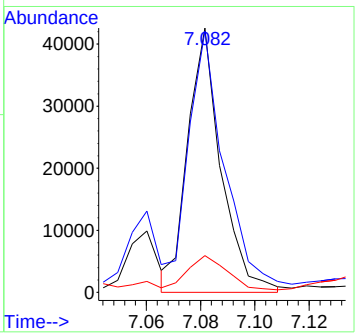


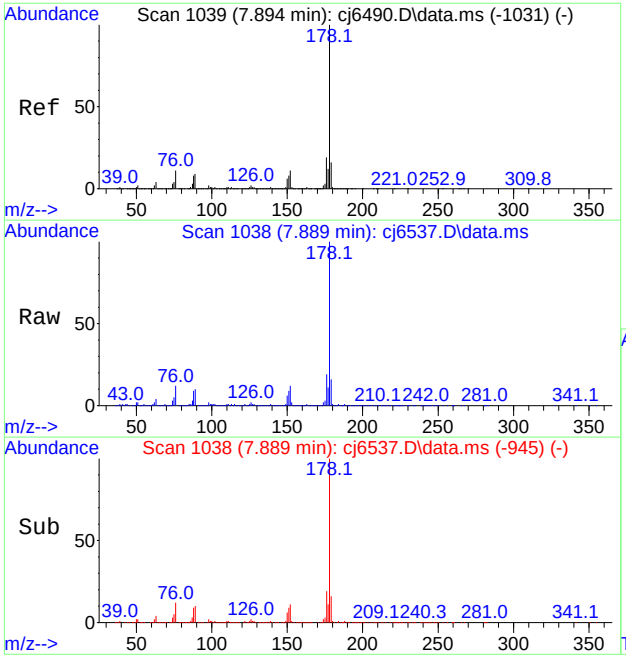


#66
Fluorene
Concen: 1.7037 ppm m
RT: 7.082 min Scan# 887
Delta R.T. 0.001 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:166 Resp: 36194

Ion	Ratio	Lower	Upper
166	100		
165	98.8	65.4	125.4
167	13.9	0.0	43.8

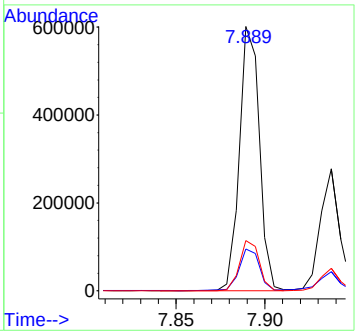


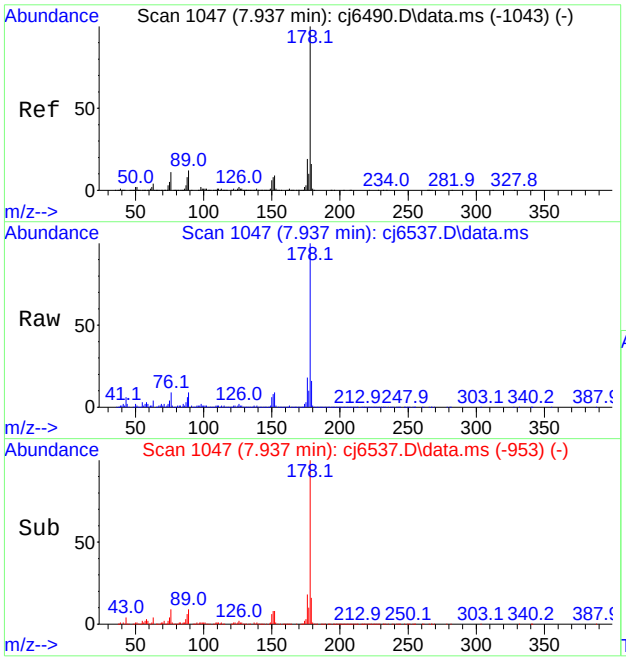


#78
Phenanthrene
Concen: 15.9101 ppm
RT: 7.889 min Scan# 1038
Delta R.T. -0.005 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:178 Resp: 471612

Ion	Ratio	Lower	Upper
178	100		
179	15.7	0.0	45.5
176	18.9	0.0	49.2

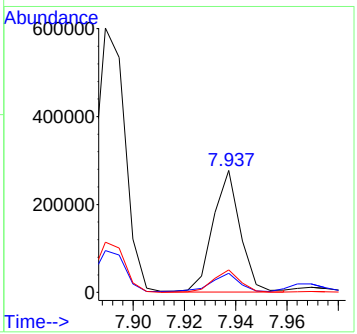


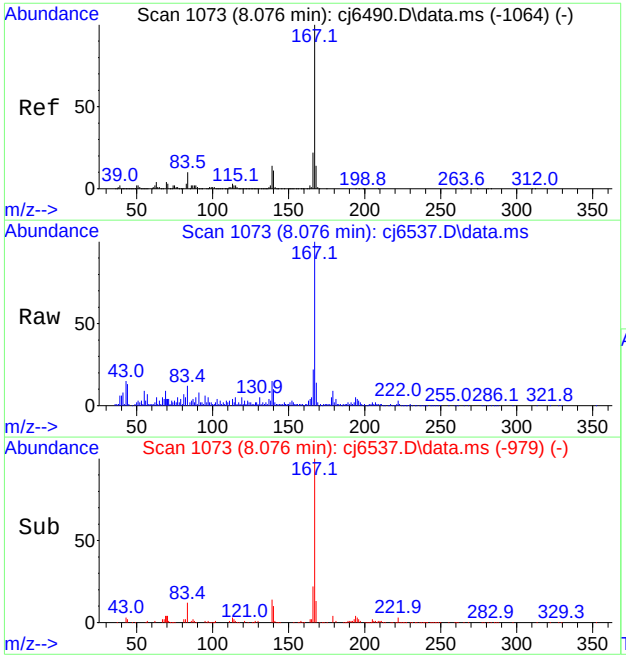


#79
Anthracene
Concen: 6.9509 ppm
RT: 7.937 min Scan# 1047
Delta R.T. 0.000 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:178 Resp: 206310

Ion	Ratio	Lower	Upper
178	100		
179	14.0	0.0	46.1
176	18.4	0.0	48.7

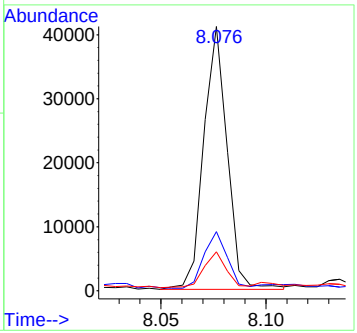


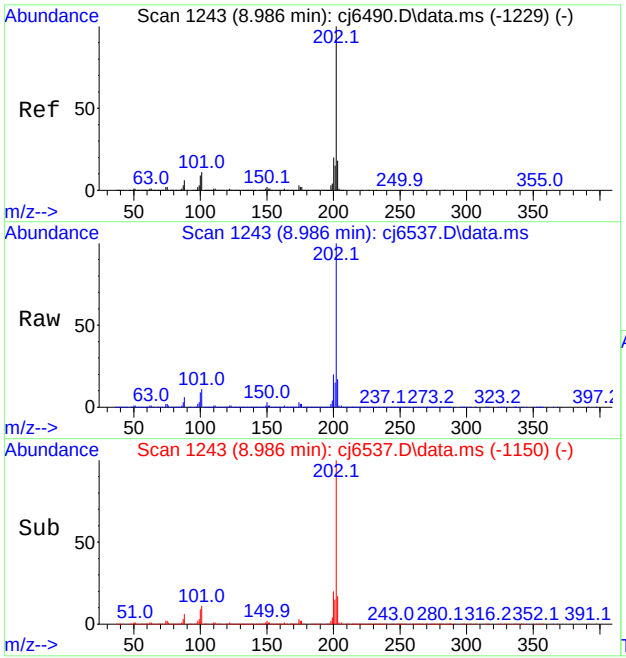


#80
Carbazole
Concen: 1.1577 ppm
RT: 8.076 min Scan# 1073
Delta R.T. 0.000 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:167 Resp: 32020

Ion	Ratio	Lower	Upper
167	100		
166	20.8	0.0	51.7
139	13.2	0.0	43.8

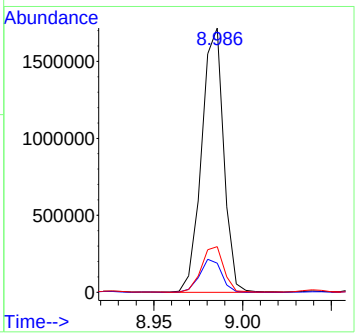


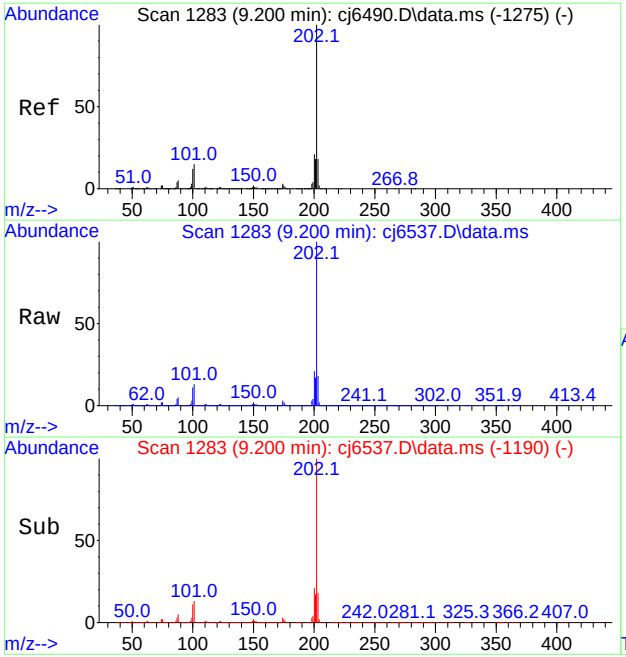


#82
Fluoranthene
Concen: 46.0012 ppm
RT: 8.986 min Scan# 1243
Delta R.T. -0.000 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:202 Resp: 1476231

Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	41.4
203	17.1	0.0	47.6

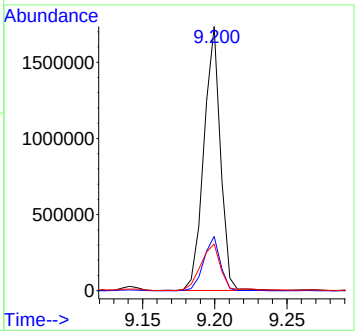


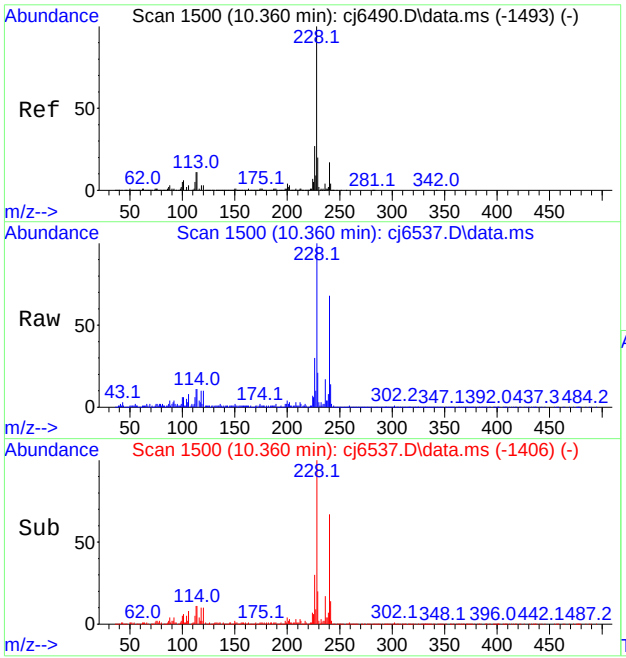


#86
Pyrene
Concen: 46.2578 ppm
RT: 9.200 min Scan# 1283
Delta R.T. -0.000 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:202 Resp: 1380707

Ion	Ratio	Lower	Upper
202	100		
200	20.6	0.0	51.4
203	17.5	0.0	47.8

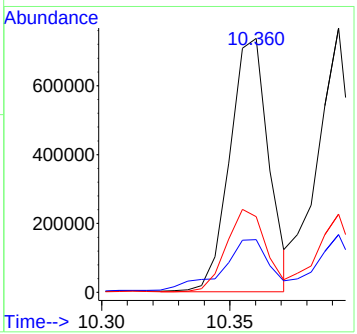


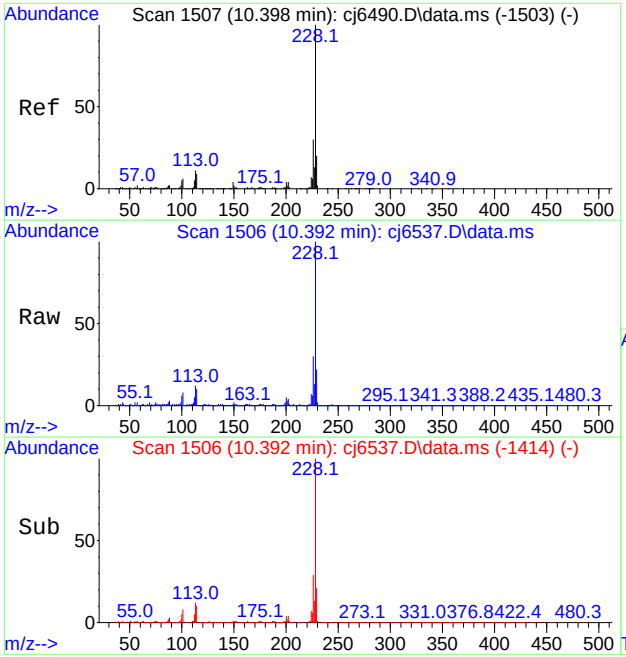


#89
Benzo[a]anthracene
Concen: 27.4712 ppm
RT: 10.360 min Scan# 1500
Delta R.T. 0.000 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:228 Resp: 775213

Ion	Ratio	Lower	Upper
228	100		
229	19.7	0.0	49.8
226	29.7	0.0	57.1

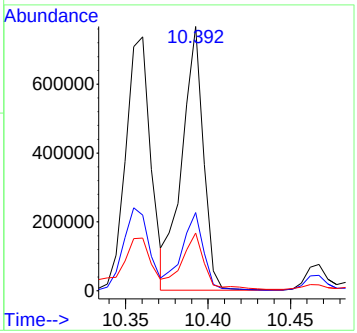


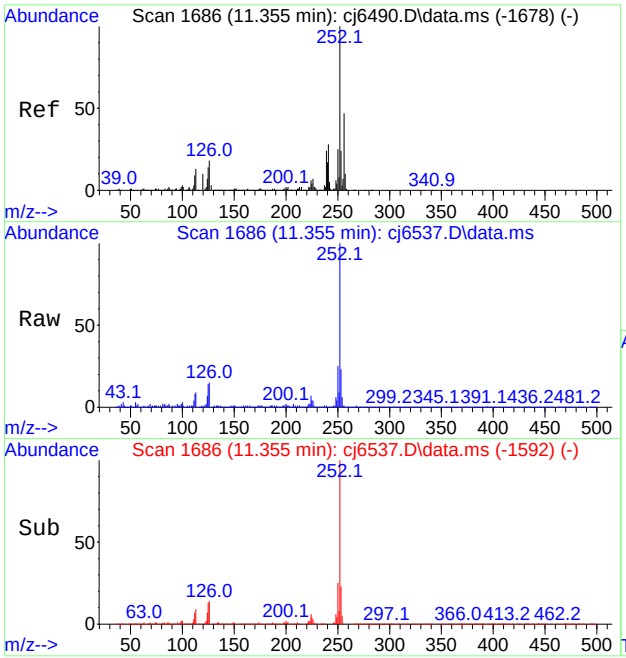


#91
Chrysene
Concen: 26.6615 ppm
RT: 10.392 min Scan# 1506
Delta R.T. -0.006 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:228 Resp: 694152

Ion	Ratio	Lower	Upper
228	100		
226	29.5	0.0	59.9
229	21.2	0.0	49.8

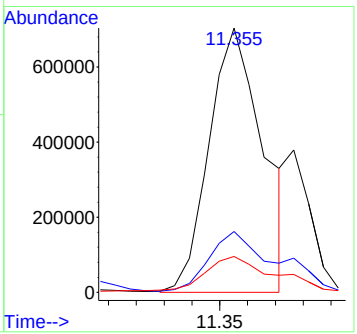


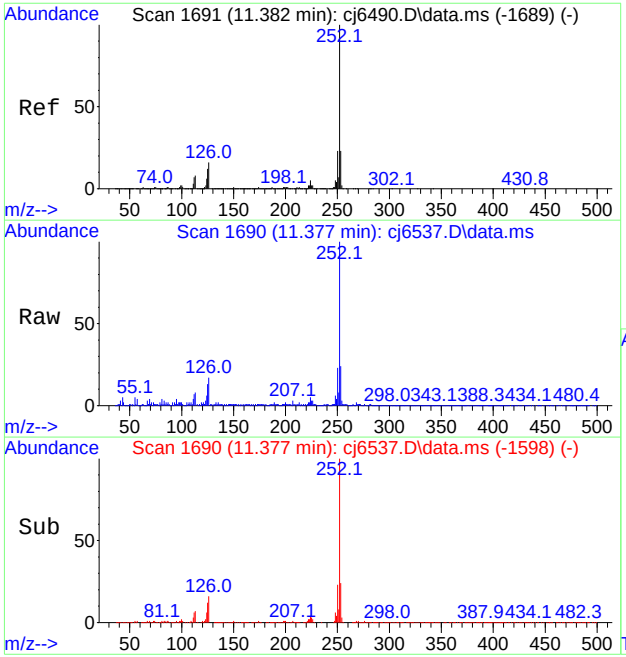


#95
Benzo[b]fluoranthene
Concen: 35.0902 ppm m
RT: 11.355 min Scan# 1686
Delta R.T. 0.000 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:252 Resp: 946020

Ion	Ratio	Lower	Upper
252	100		
253	23.0	0.0	54.7
125	13.6	0.0	44.2

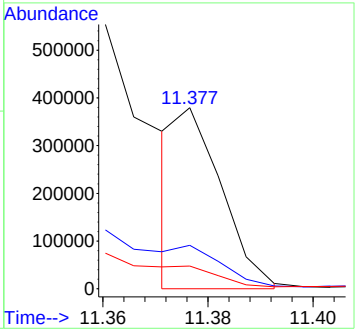


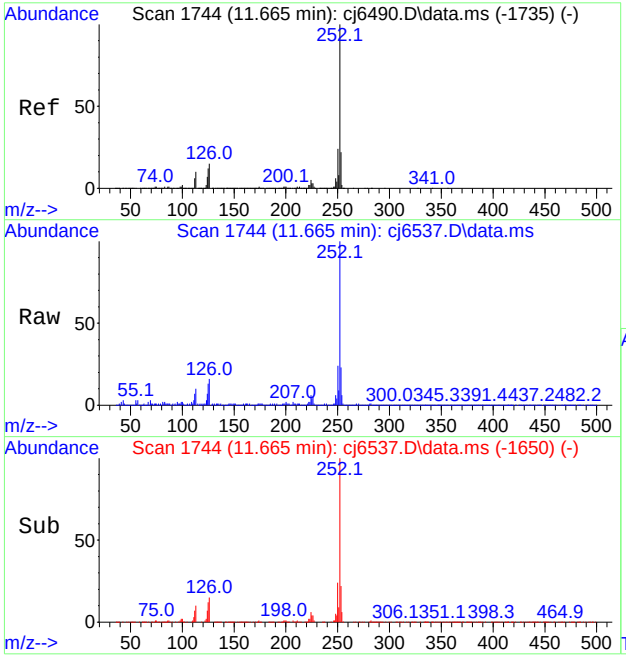


#96
Benzo[k]fluoranthene
Concen: 9.1616 ppm m
RT: 11.377 min Scan# 1690
Delta R.T. -0.005 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:252 Resp: 222254

Ion	Ratio	Lower	Upper
252	100		
253	24.0	0.0	52.6
125	12.6	0.0	42.4

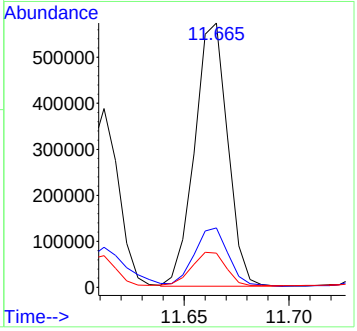


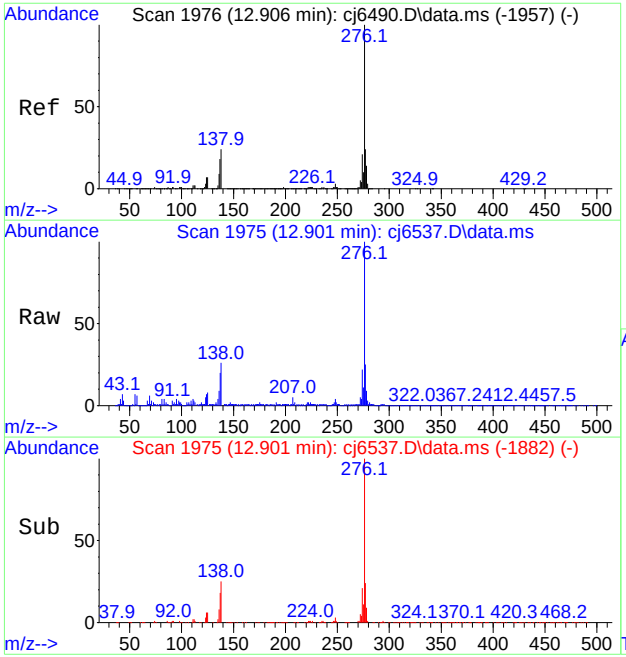


#97
Benzo[a]pyrene
Concen: 28.1910 ppm
RT: 11.665 min Scan# 1744
Delta R.T. 0.000 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:252 Resp: 629163

Ion	Ratio	Lower	Upper
252	100		
253	21.7	0.0	51.9
125	12.3	0.0	42.1

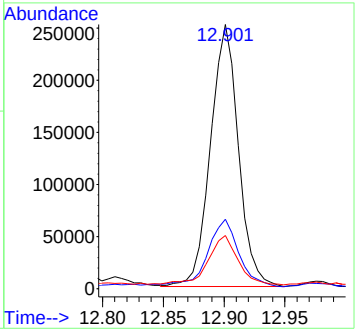


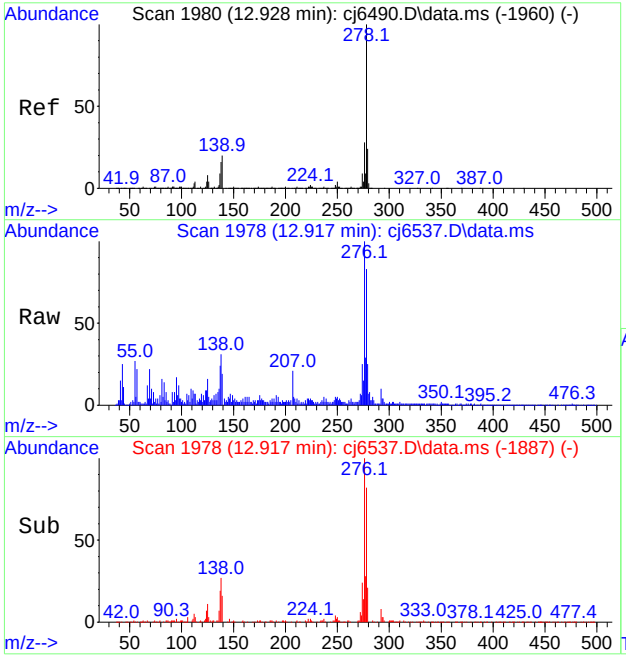


#98
Indeno[1,2,3-cd]pyrene
Concen: 14.8737 ppm
RT: 12.901 min Scan# 1975
Delta R.T. -0.005 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:276 Resp: 401298

Ion	Ratio	Lower	Upper
276	100		
138	25.2	0.0	54.2
137	18.7	0.0	47.9

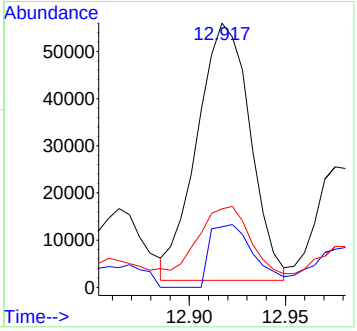


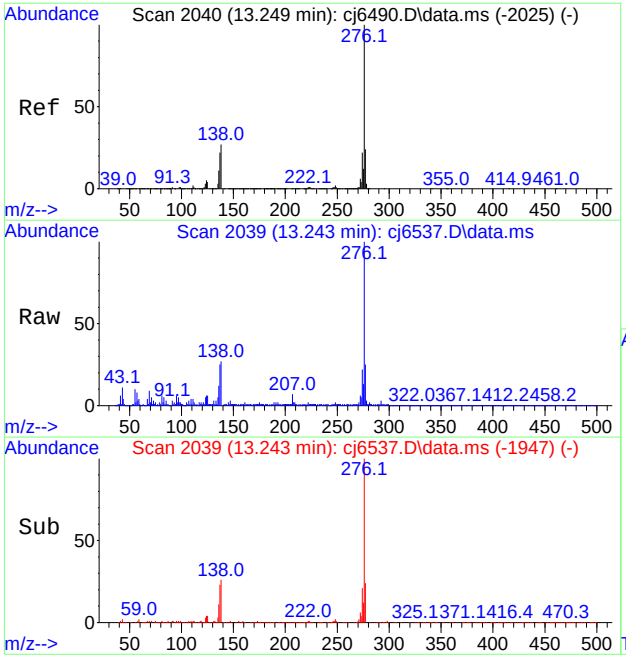


#100
Dibenz[a,h]anthracene
Concen: 4.8716 ppm
RT: 12.917 min Scan# 1978
Delta R.T. -0.011 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:278 Resp: 105024

Ion	Ratio	Lower	Upper
278	100		
139	23.0	0.0	49.8
279	25.9	0.0	54.1

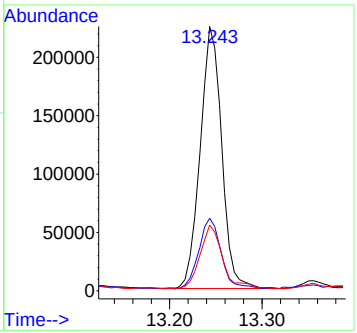


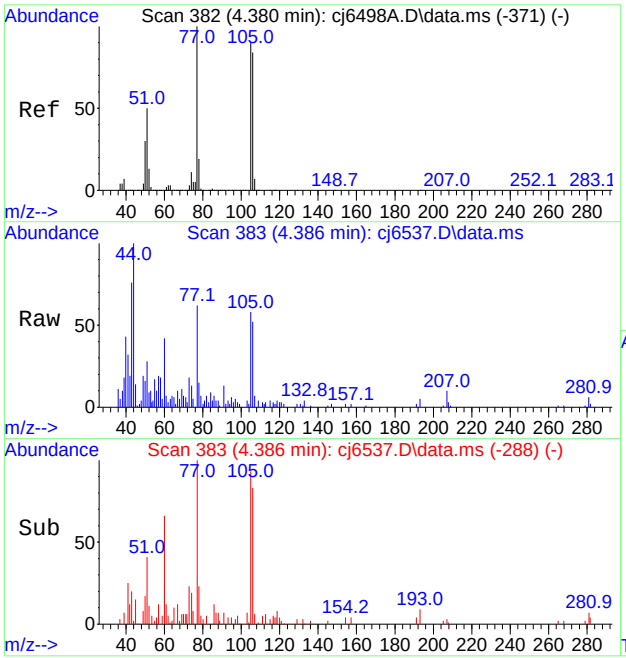


#102
Benzo[g,h,i]perylene
Concen: 17.3457 ppm
RT: 13.243 min Scan# 2039
Delta R.T. -0.006 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:276 Resp: 363682

Ion	Ratio	Lower	Upper
276	100		
138	26.6	0.0	56.7
277	24.3	0.0	54.1

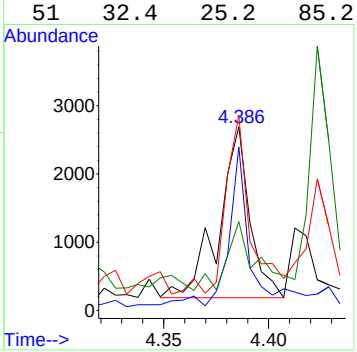




#104
Benzaldehyde
Concen: 0.2573 ppm
RT: 4.386 min Scan# 383
Delta R.T. 0.006 min
Lab File: cj6537.D
Acq: 09 May 2024 11:57 pm

Tgt Ion:105 Resp: 2581

Ion	Ratio	Lower	Upper
105	100		
106	88.0	62.5	122.5
77	93.8	80.6	140.6
51	32.4	25.2	85.2



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6537.D
Acq On : 09 May 2024 11:57 pm
Operator : rocquans
Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6537.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.247	354	357	361	rVB	697896	450709	8.00%	0.500%
2	4.423	387	390	399	rBV	2436812	1423372	25.25%	1.578%
3	4.487	399	402	412	rVB	377144	247872	4.40%	0.275%
4	4.664	431	435	439	rBV	3623672	2147244	38.09%	2.380%
5	4.819	461	464	470	rBV	285071	198086	3.51%	0.220%
6	5.012	495	500	504	rBV	2235212	1315114	23.33%	1.458%
7	5.466	577	585	599	rVB	4198932	2728566	48.41%	3.024%
8	6.167	710	716	722	rVB	4413919	2540461	45.07%	2.816%
9	6.552	785	788	793	rBV	429731	352072	6.25%	0.390%
10	6.659	800	808	811	rBV	4540936	3055653	54.21%	3.387%
11	7.274	917	923	927	rVB	1595776	1245326	22.09%	1.380%
12	7.873	1030	1035	1037	rBV	3684497	3206071	56.88%	3.553%
13	7.889	1037	1038	1042	rVB	1476114	933584	16.56%	1.035%
14	7.937	1042	1047	1050	rBV	667139	479722	8.51%	0.532%
15	7.969	1050	1053	1057	rVB4	169524	189249	3.36%	0.210%
16	8.076	1067	1073	1082	rBV3	127900	215881	3.83%	0.239%
17	8.322	1112	1119	1121	rBV	324135	363883	6.46%	0.403%
18	8.349	1121	1124	1126	rVB	313607	242421	4.30%	0.269%
19	8.371	1126	1128	1134	rVB2	543308	551912	9.79%	0.612%
20	8.424	1134	1138	1146	rVB2	597386	777423	13.79%	0.862%
21	8.601	1164	1171	1178	rVB4	214097	374509	6.64%	0.415%
22	8.836	1209	1215	1218	rBV	327965	366140	6.50%	0.406%
23	8.868	1218	1221	1226	rBV3	166026	205438	3.64%	0.228%
24	8.911	1226	1229	1234	rVB3	218650	278383	4.94%	0.309%
25	8.986	1234	1243	1248	rBV	3892961	3660586	64.94%	4.057%
26	9.045	1248	1254	1256	rBV3	341853	450494	7.99%	0.499%
27	9.071	1256	1259	1263	rVB	284768	287283	5.10%	0.318%
28	9.119	1263	1268	1276	rBV5	384218	528676	9.38%	0.586%
29	9.200	1276	1283	1287	rBV	3934843	3636230	64.51%	4.030%
30	9.317	1300	1305	1307	rBV	264925	226753	4.02%	0.251%
31	9.355	1307	1312	1318	rVB	3266073	2691742	47.75%	2.983%
32	9.414	1318	1323	1327	rBV2	288186	401779	7.13%	0.445%
33	9.515	1331	1342	1346	rBV	516479	813986	14.44%	0.902%
34	9.585	1346	1355	1358	rBV	437600	513323	9.11%	0.569%
35	9.617	1358	1361	1369	rVB2	717726	829633	14.72%	0.920%
36	9.702	1374	1377	1380	rVB	266991	212206	3.76%	0.235%
37	9.735	1380	1383	1387	rBV	278229	248176	4.40%	0.275%
38	9.831	1394	1401	1404	rBV6	222109	282658	5.01%	0.313%
39	9.863	1404	1407	1412	rVV2	253290	220729	3.92%	0.245%
40	9.922	1412	1418	1428	rVB8	140894	335219	5.95%	0.372%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6537.D
Acq On : 09 May 2024 11:57 pm
Operator : rocquans
Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	10.007	1428	1434	1440	rVB	352976	402816	7.15%	0.446%
42	10.071	1440	1446	1448	rBV3	304262	311589	5.53%	0.345%
43	10.098	1448	1451	1452	rBV2	277664	255295	4.53%	0.283%
44	10.114	1452	1454	1458	rVB2	273803	229042	4.06%	0.254%
45	10.146	1458	1460	1462	rBV	234812	196920	3.49%	0.218%
46	10.189	1465	1468	1471	rBV3	665521	638932	11.34%	0.708%
47	10.269	1480	1483	1493	rVB3	346390	498549	8.84%	0.553%
48	10.366	1493	1501	1504	rBV2	3961882	5636689	100.00%	6.247%
49	10.392	1504	1506	1514	rVB	2084919	1756102	31.15%	1.946%
50	10.462	1514	1519	1522	rBV3	311001	371459	6.59%	0.412%
51	10.494	1522	1525	1533	rVV5	509951	917414	16.28%	1.017%
52	10.553	1533	1536	1541	rVV3	183691	366486	6.50%	0.406%
53	10.596	1541	1544	1547	rVV2	242841	329478	5.85%	0.365%
54	10.687	1556	1561	1564	rVV4	101900	178386	3.16%	0.198%
55	10.719	1564	1567	1569	rVV2	243105	287966	5.11%	0.319%
56	10.751	1569	1573	1576	rVV	499814	597549	10.60%	0.662%
57	10.783	1576	1579	1582	rVV2	296837	353348	6.27%	0.392%
58	10.815	1582	1585	1587	rVV3	202276	278166	4.93%	0.308%
59	10.842	1587	1590	1592	rVV2	313333	346337	6.14%	0.384%
60	10.868	1592	1595	1597	rVV3	305456	394604	7.00%	0.437%
61	10.906	1597	1602	1608	rVV2	895303	1239640	21.99%	1.374%
62	10.949	1608	1610	1614	rVV	188009	272321	4.83%	0.302%
63	11.002	1614	1620	1622	rVV5	185321	359306	6.37%	0.398%
64	11.050	1622	1629	1633	rVV4	294547	622219	11.04%	0.690%
65	11.114	1637	1641	1646	rVV3	461397	755329	13.40%	0.837%
66	11.157	1646	1649	1653	rVV2	202907	337544	5.99%	0.374%
67	11.205	1653	1658	1664	rVV4	288790	798403	14.16%	0.885%
68	11.264	1666	1669	1674	rVV3	221056	449295	7.97%	0.498%
69	11.355	1674	1686	1694	rVV	2100471	4571904	81.11%	5.067%
70	11.419	1694	1698	1700	rVV3	387064	654214	11.61%	0.725%
71	11.446	1700	1703	1711	rVV	621241	974979	17.30%	1.081%
72	11.510	1711	1715	1724	rVV3	1283538	2274720	40.36%	2.521%
73	11.574	1724	1727	1729	rVV4	194026	257164	4.56%	0.285%
74	11.612	1729	1734	1739	rVV	1118150	1483177	26.31%	1.644%
75	11.660	1739	1743	1748	rVV	1657317	1973829	35.02%	2.188%
76	11.719	1748	1754	1766	rVV2	2484053	3796664	67.36%	4.208%
77	11.815	1770	1772	1775	rVV3	116784	163762	2.91%	0.182%
78	11.869	1775	1782	1787	rVV7	187225	545561	9.68%	0.605%
79	11.911	1787	1790	1796	rVV3	160942	280648	4.98%	0.311%
80	12.013	1796	1809	1819	rVV10	593347	1854199	32.90%	2.055%
81	12.211	1835	1846	1850	rVV2	1105627	1768994	31.38%	1.961%
82	12.248	1850	1853	1857	rVV	577566	724478	12.85%	0.803%
83	12.275	1857	1858	1868	rVB7	114376	171659	3.05%	0.190%
84	12.478	1887	1896	1904	rBV7	333767	640769	11.37%	0.710%
85	12.628	1916	1924	1926	rBV3	101528	212816	3.78%	0.236%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6537.D
Acq On : 09 May 2024 11:57 pm
Operator : rocquans
Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.767	1940	1950	1961	rBV4	228689	546735	9.70%	0.606%
87	12.864	1961	1968	1970	rVV2	217744	380024	6.74%	0.421%
88	12.901	1970	1975	1983	rVV2	696254	1262316	22.39%	1.399%
89	12.970	1984	1988	1995	rVV3	121904	212170	3.76%	0.235%
90	13.051	1997	2003	2006	rVV	188343	347737	6.17%	0.385%
91	13.094	2006	2011	2022	rVV5	364614	1082910	19.21%	1.200%
92	13.174	2022	2026	2031	rVV3	179178	353896	6.28%	0.392%
93	13.243	2031	2039	2049	rVB	705891	1317301	23.37%	1.460%
94	13.420	2062	2072	2092	rVV3	971522	2488063	44.14%	2.758%
95	13.719	2122	2128	2137	rVB3	67703	163356	2.90%	0.181%
96	13.848	2146	2152	2158	rVB6	97295	183676	3.26%	0.204%
97	13.971	2169	2175	2179	rVV8	99283	218850	3.88%	0.243%
98	14.024	2180	2185	2193	rVB10	125793	281126	4.99%	0.312%
99	14.217	2214	2221	2231	rVB3	186534	391782	6.95%	0.434%
100	14.425	2252	2260	2269	rVB3	85979	234629	4.16%	0.260%

Sum of corrected areas: 90223856

LSC Report - Integrated Chromatogram

```
Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6537.D
Acq On    : 09 May 2024  11:57 pm
Operator  : rocquans
Sample    : jd87833-16
Misc      : op54460,ecj297,30.3,,,1,1
ALS Vial  : 28   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title  : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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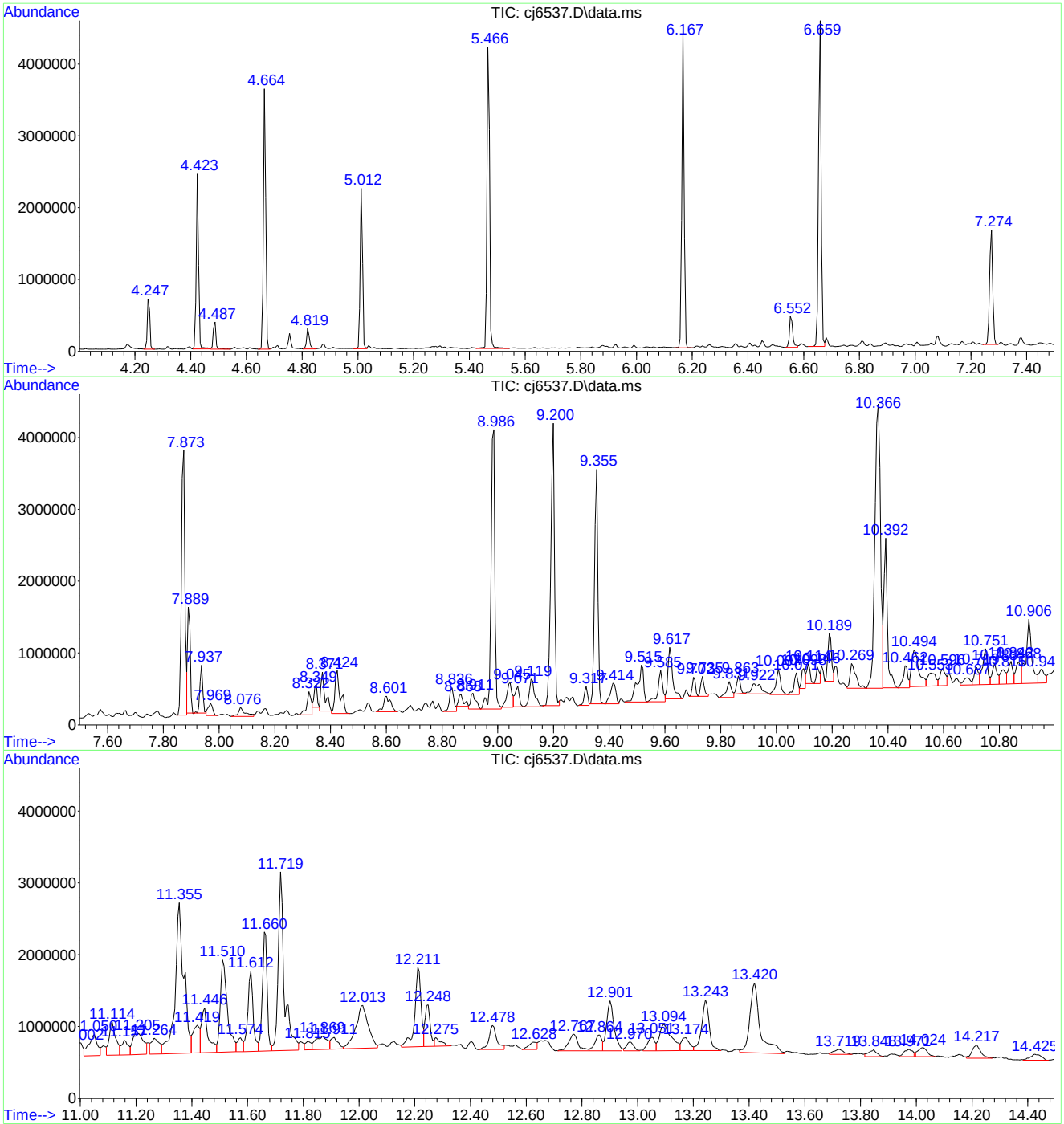


Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6537.D
Acq On : 09 May 2024 11:57 pm
Operator : rocquans
Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

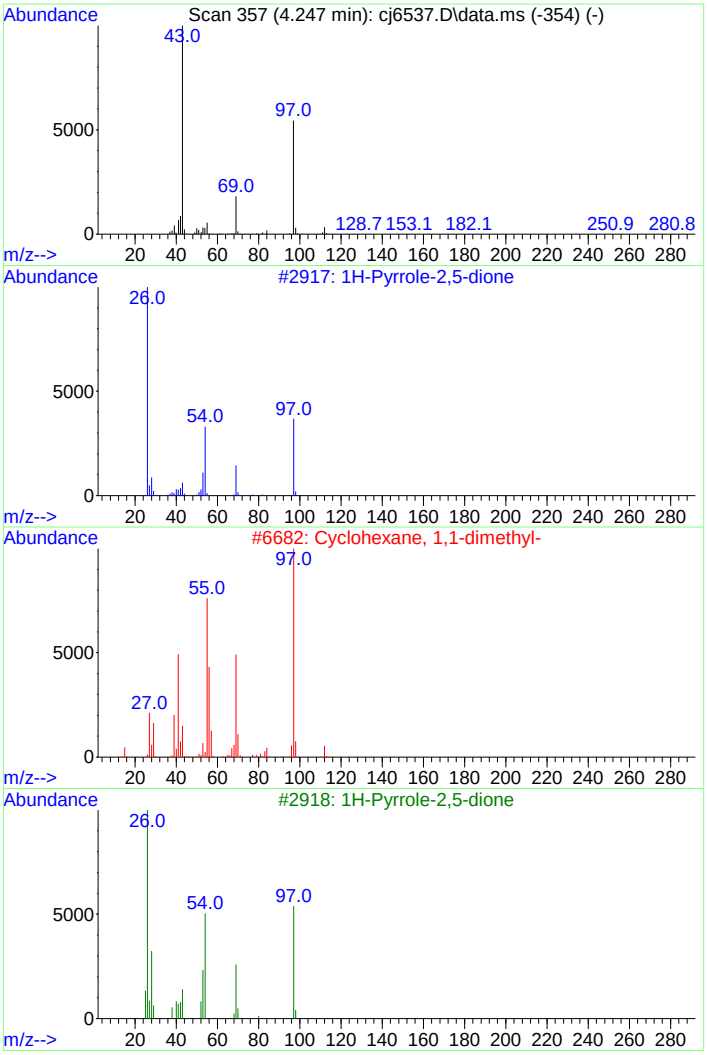
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

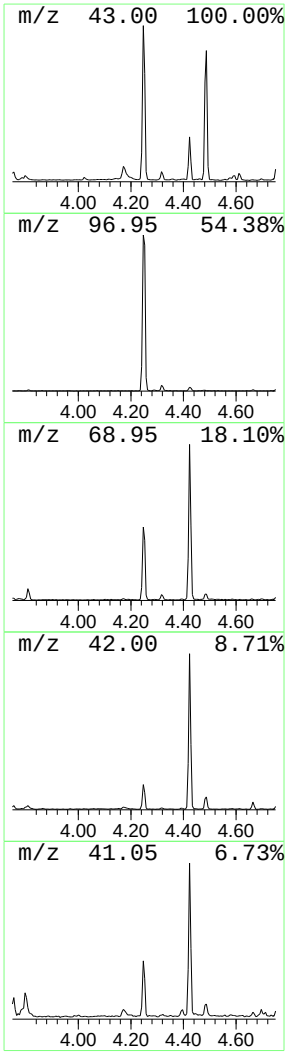
****

Peak Number 1 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.247	8.40 ppm	450709	1,4-Dichlorobenzene-d4a	4.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	42
2	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	33
3	1H-Pyrrole-2,5-dione	97	C4H3NO2	000541-59-3	28
4	2,4-Dimethyl-1,5-diazabicyclo[3....	112	C6H12N2	100463-01-2	28
5	4-Methyl-2-pyrazolin-5-one	98	C4H6N2O	013315-23-6	28





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6537.D
Acq On : 09 May 2024 11:57 pm
Operator : rocquans
Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

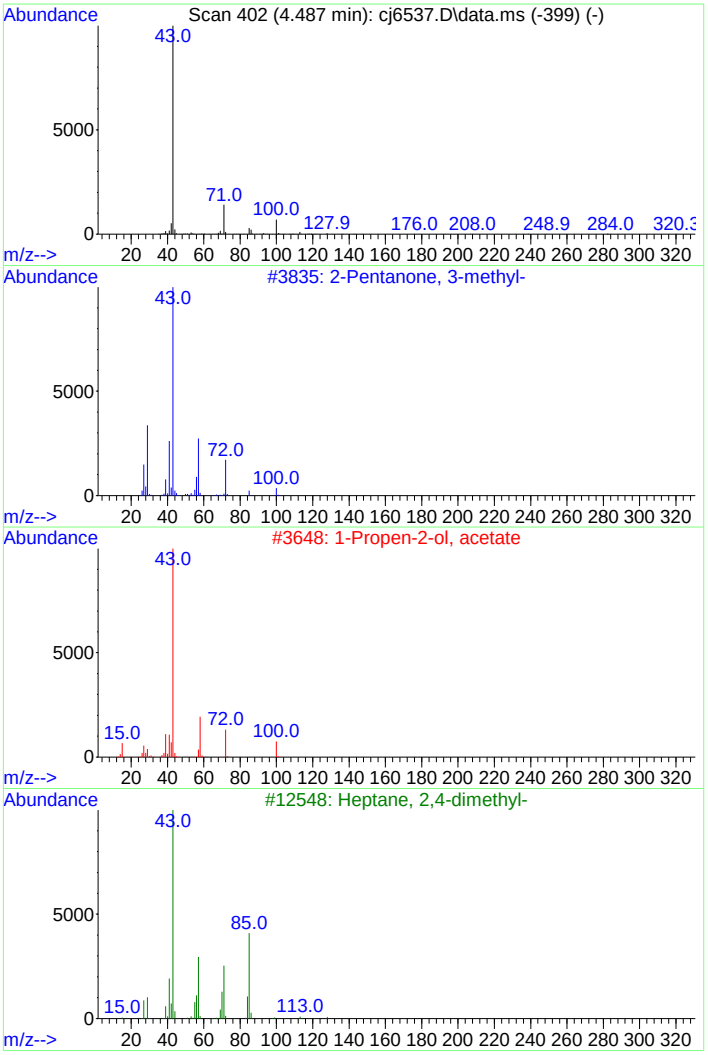
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

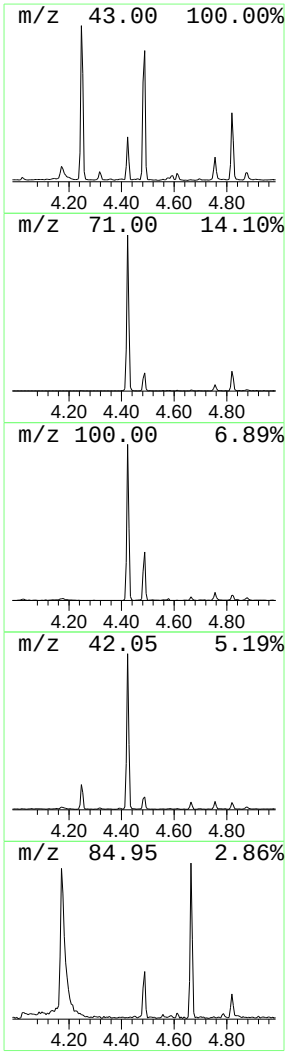
****

Peak Number 2 Unknown Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.487	4.62 ppm	247872	1,4-Dichlorobenzene-d4a	4.664

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 3-methyl-	100	C6H12O	000565-61-7	9
2	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	9
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	9
4	2-Pentanone, 3-methyl-	100	C6H12O	000565-61-7	9
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	9





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6537.D
Acq On : 09 May 2024 11:57 pm
Operator : rocquans
Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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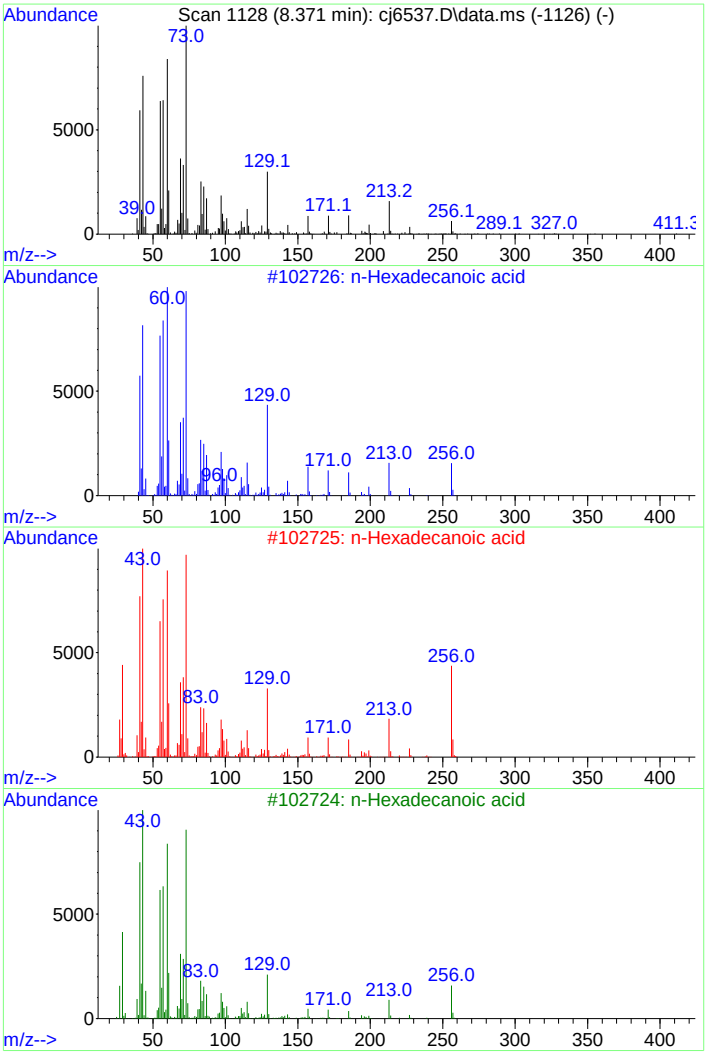
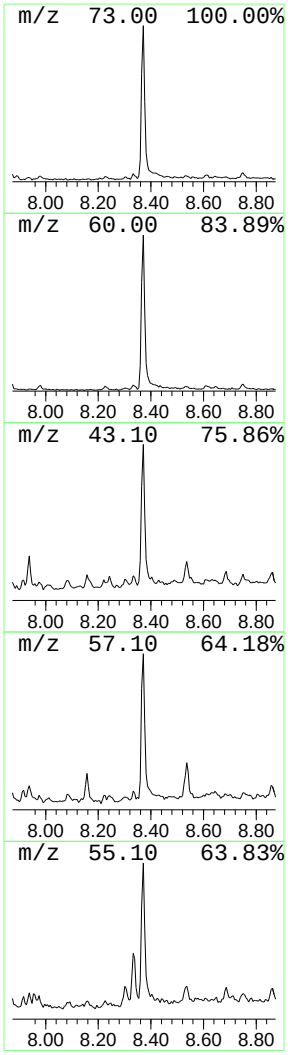
Peak Number 3 n-Hexadecanoic acid Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.371	6.89 ppm	551912	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	95
4	Tridecanoic acid	214	C13H26O2	000638-53-9	95
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	91





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Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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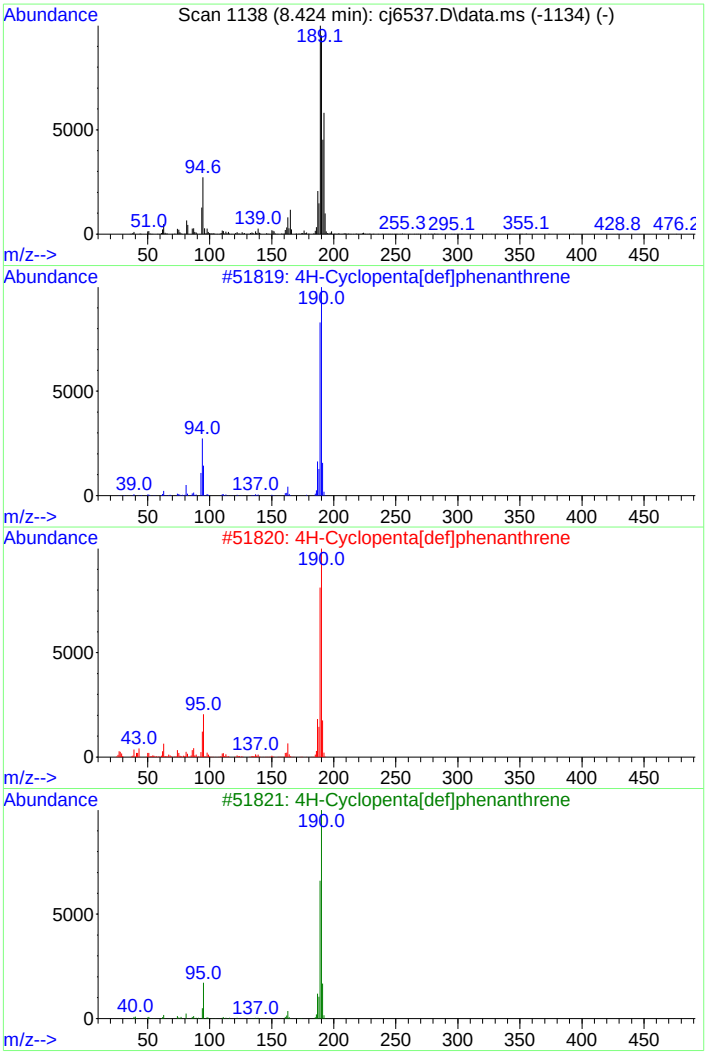
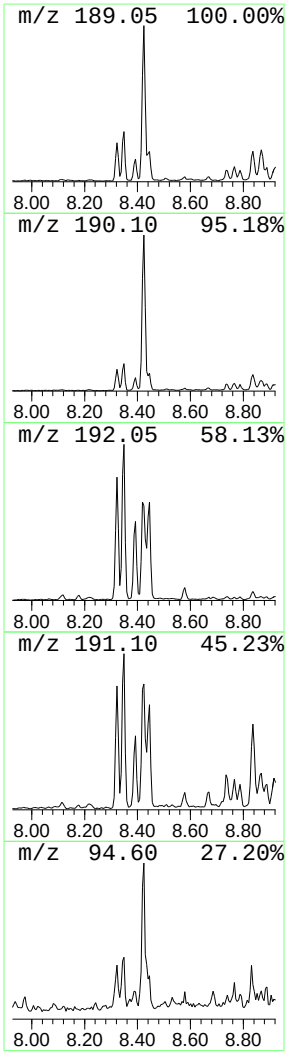
Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.424	9.70 ppm	777423	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	38
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	35
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	35





Library Search Compound Report

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Acq On : 09 May 2024 11:57 pm
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Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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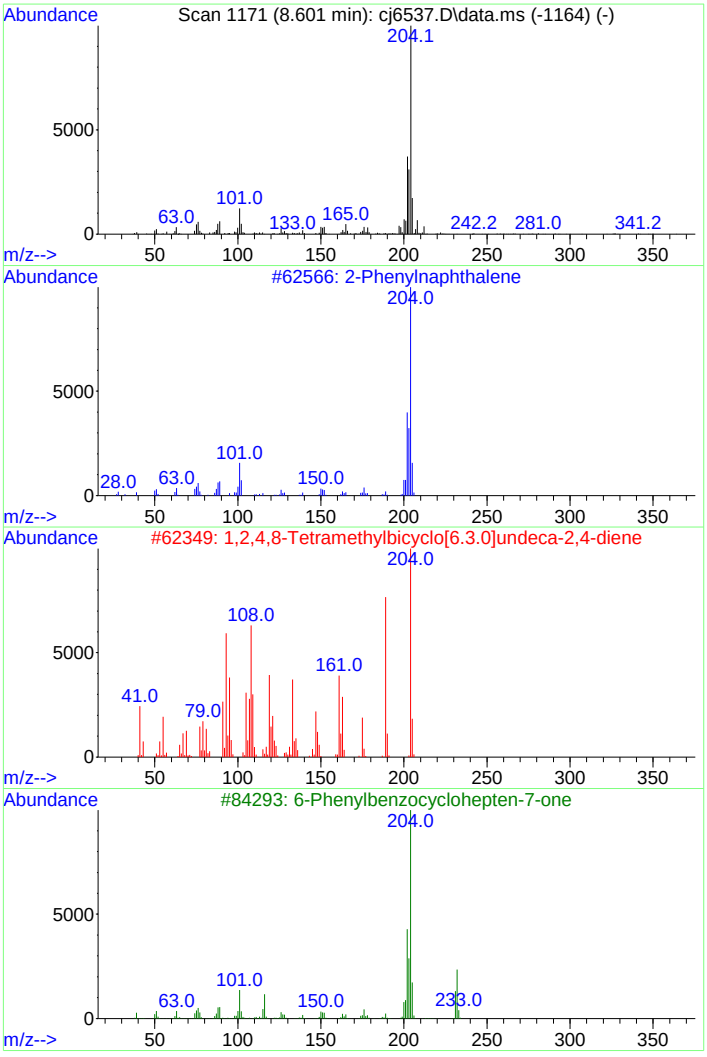
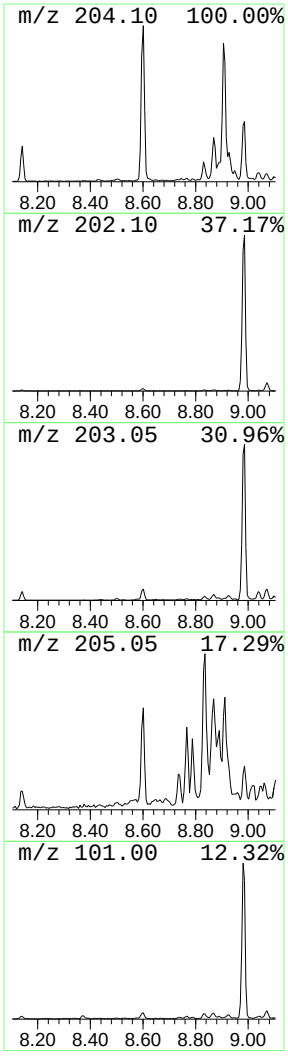
Peak Number 5 Unknown Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.601	4.67 ppm	374509	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	89
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	86
3	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	86
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	81





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Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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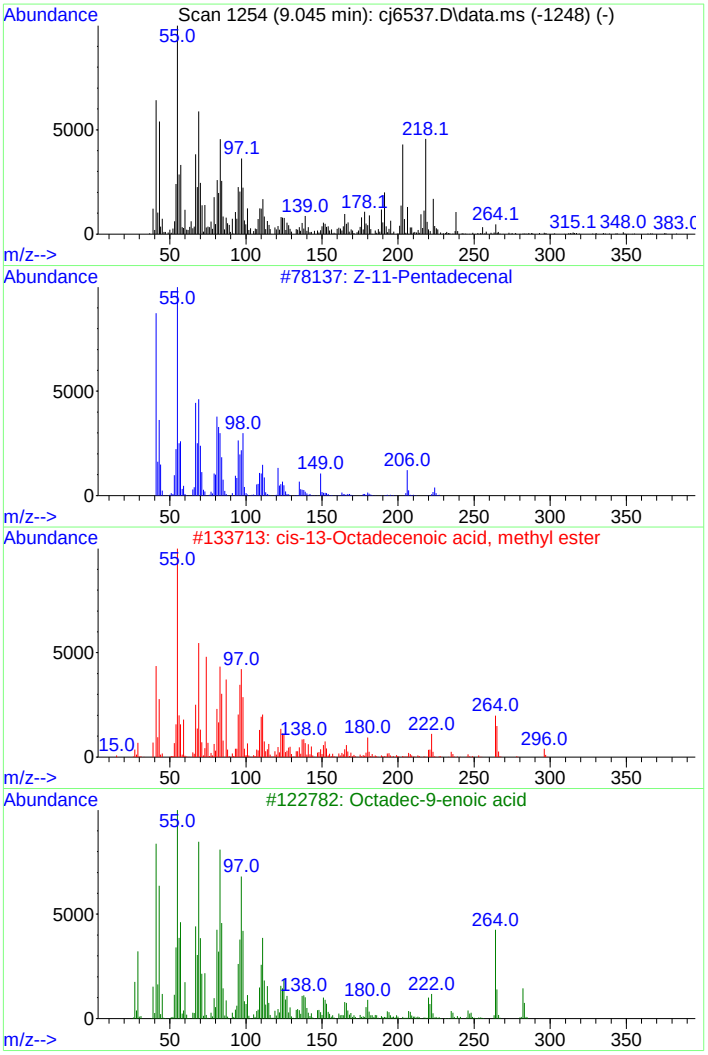
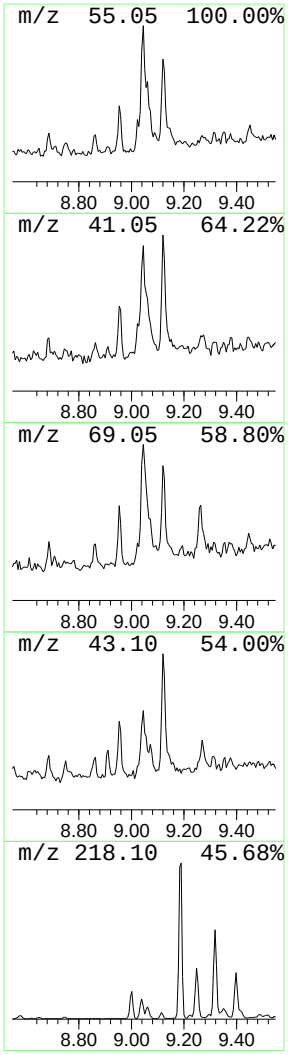
Peak Number 6 Unknown Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.045	5.62 ppm	450494	Phenanthrene-d10b	7.873

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Z-11-Pentadecenal	224	C15H28O	1000130-84-6	56
2	cis-13-Octadecenoic acid, methyl...	296	C19H36O2	1000333-58-3	47
3	Octadec-9-enoic acid	282	C18H34O2	1000190-13-7	42
4	6-Octadecenoic acid, methyl este...	296	C19H36O2	002777-58-4	38
5	6-Octadecenoic acid, (Z)-	282	C18H34O2	000593-39-5	38





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Acq On : 09 May 2024 11:57 pm
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Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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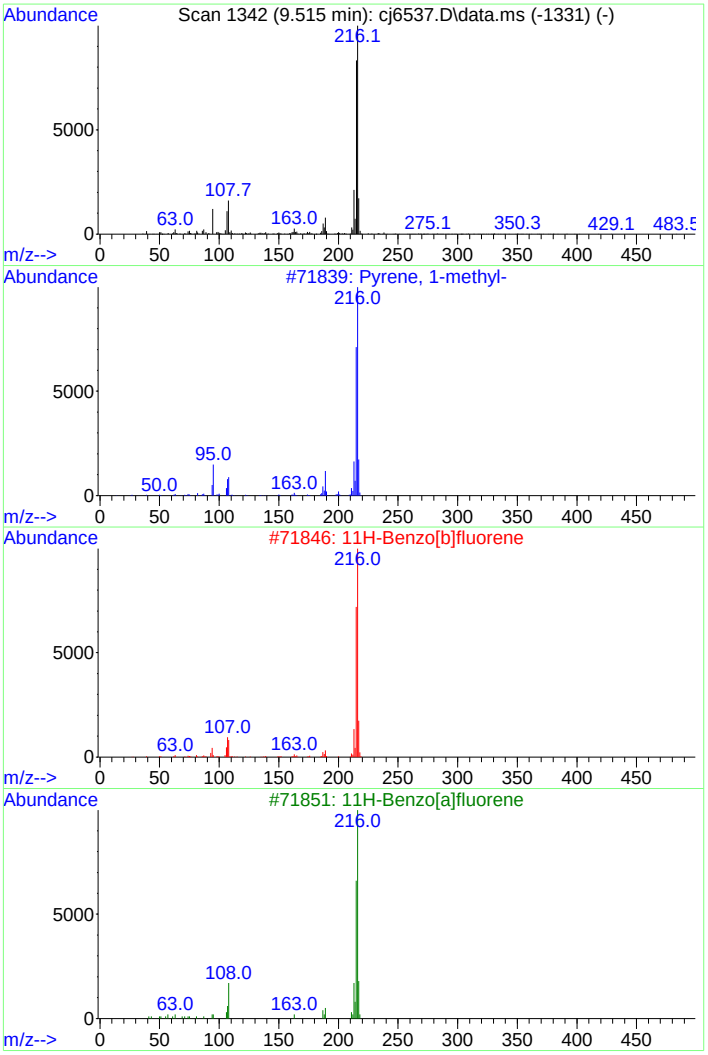
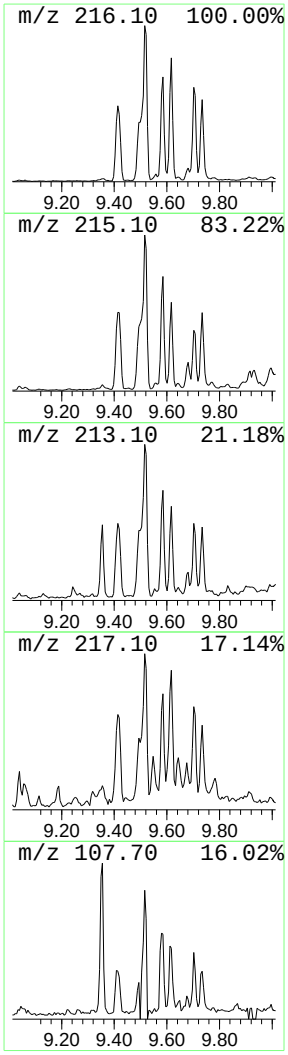
Peak Number 7 Unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.515	5.78 ppm	813986	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91





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Data File : cj6537.D
Acq On : 09 May 2024 11:57 pm
Operator : rocquans
Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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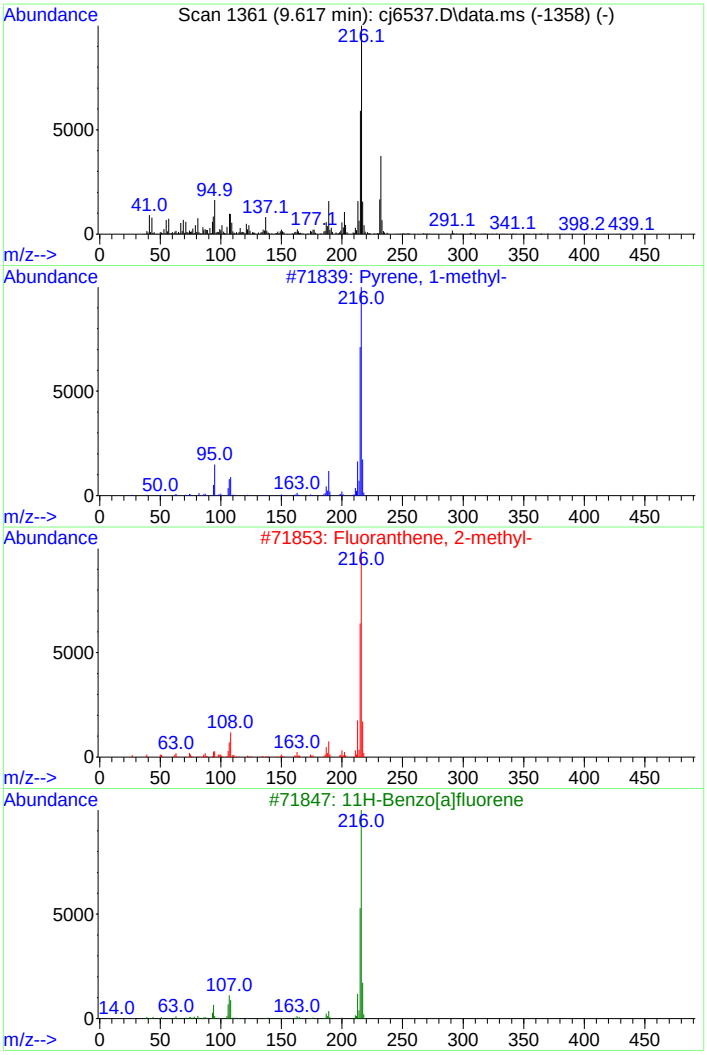
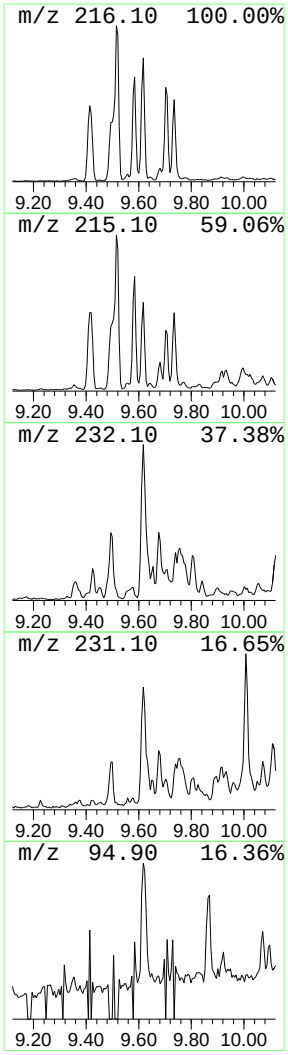
Peak Number 8 Unknown Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.617	5.89 ppm	829633	Chrysene-d12	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	92





Library Search Compound Report

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Acq On : 09 May 2024 11:57 pm
Operator : rocquans
Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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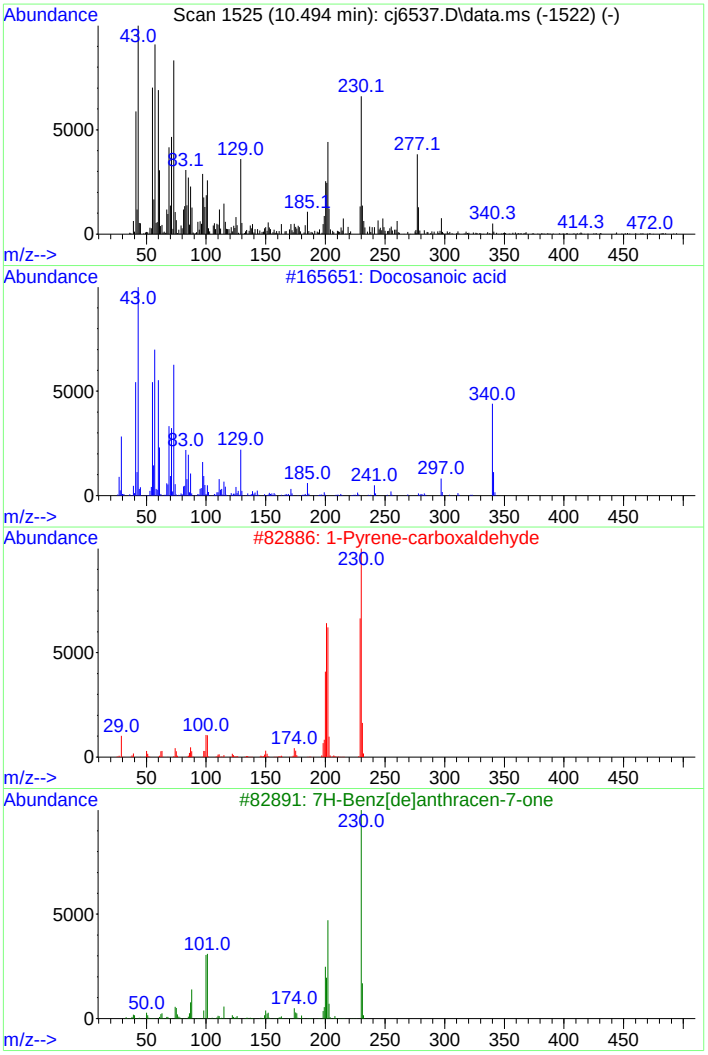
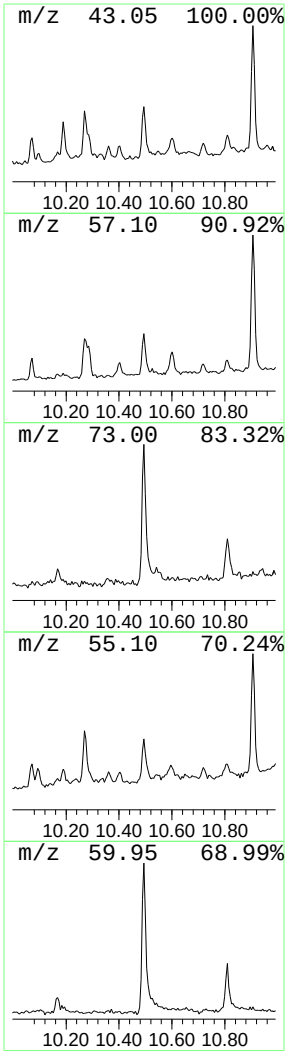
Peak Number 9 Unknown Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.494	6.51 ppm	917414	Chrysene-d12a	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosanoic acid	340	C22H44O2	000112-85-6	64
2	1-Pyrene-carboxaldehyde	230	C17H10O	003029-19-4	52
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	46
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	46
5	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	42





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Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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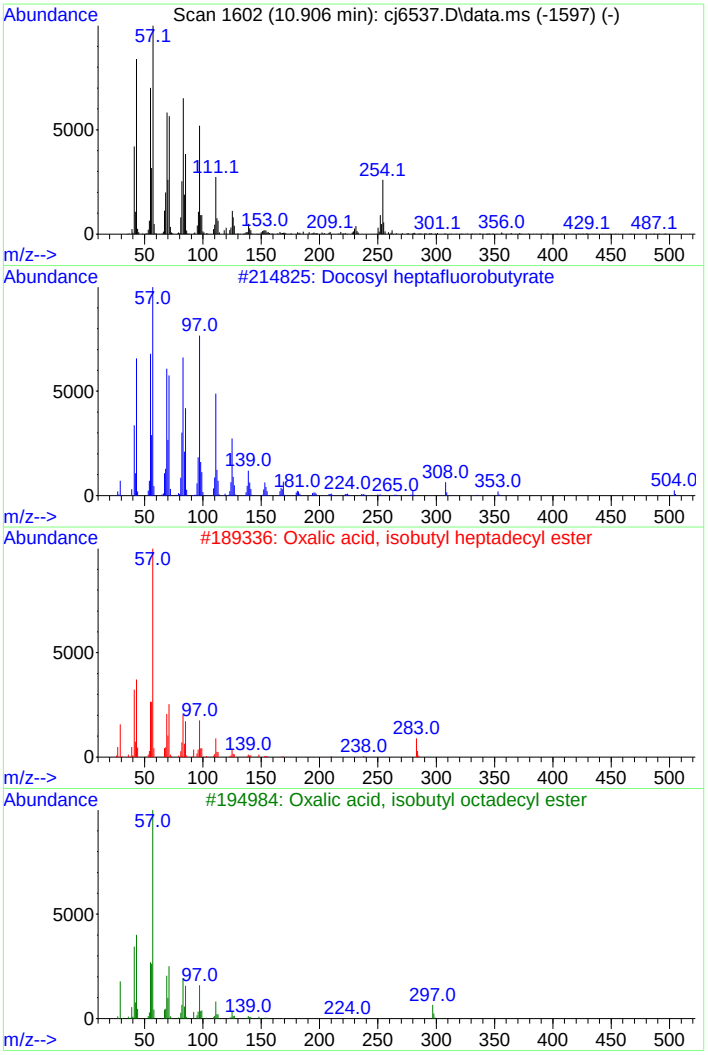
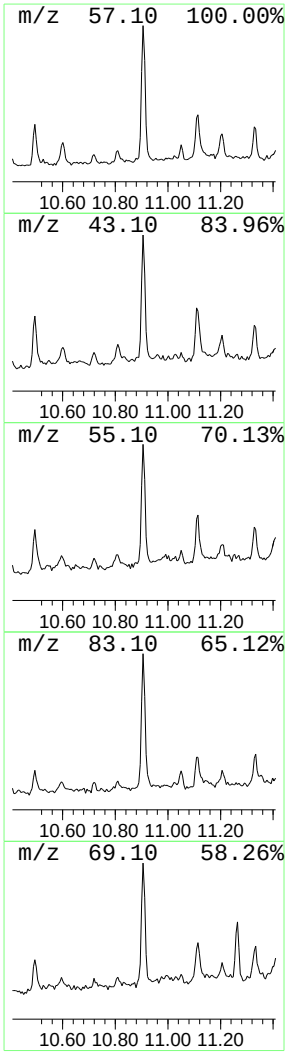
Peak Number 10 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.906	8.80 ppm	1239640	Chrysene-d12a	10.366

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosyl heptafluorobutyrate	522	C26H45F7O2	1000351-83-1	83
2	Oxalic acid, isobutyl heptadecyl...	384	C23H44O4	1000309-38-2	83
3	Oxalic acid, isobutyl octadecyl ...	398	C24H46O4	1000309-38-3	83
4	17-Pentatriacontene	491	C35H70	006971-40-0	83
5	Heneicosyl heptafluorobutyrate	508	C25H43F7O2	1000351-83-8	76





Library Search Compound Report

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Acq On : 09 May 2024 11:57 pm
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Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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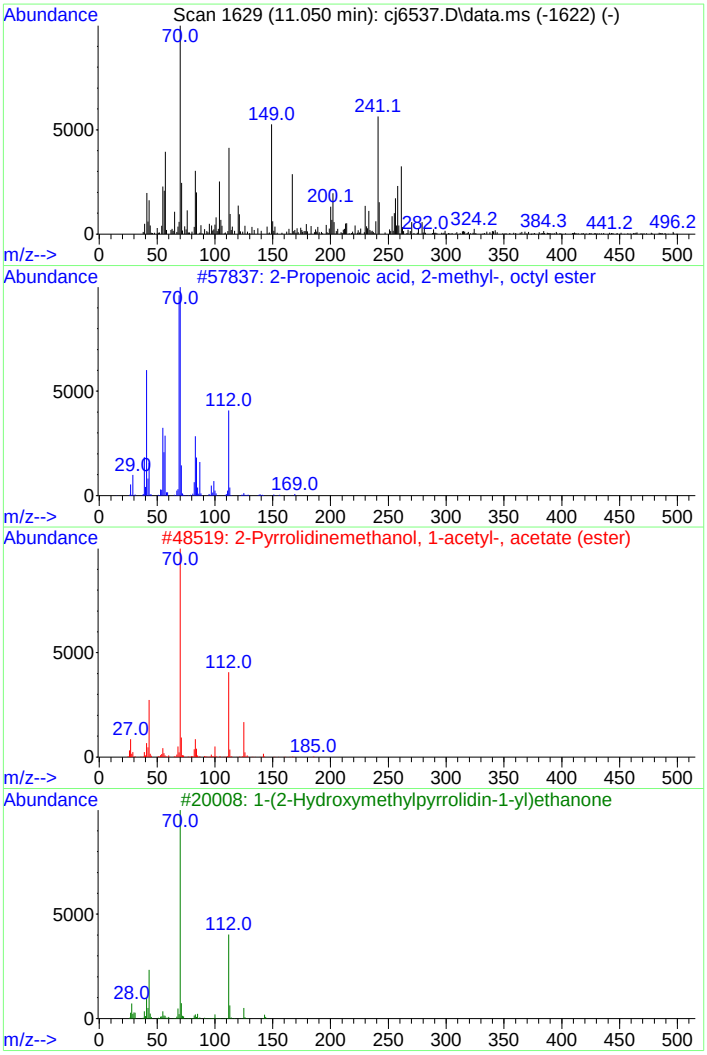
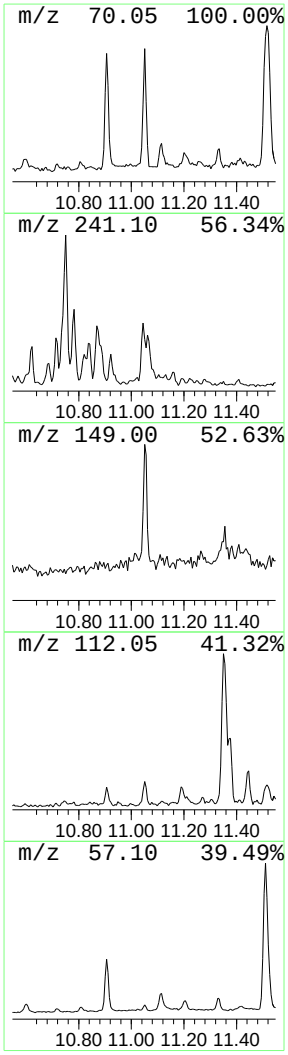
Peak Number 11 Unknown Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.050	6.56 ppm	622219	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propenoic acid, 2-methyl-, oct...	198	C12H22O2	002157-01-9	16
2	2-Pyrrolidinemethanol, 1-acetyl-...	185	C9H15NO3	042366-60-9	16
3	1-(2-Hydroxymethylpyrrolidin-1-y...	143	C7H13NO2	1000192-83-2	16
4	2-Heptene, 3-methyl-	112	C8H16	003404-75-9	16
5	Silane, [[(3.alpha.,5.alpha.,17....	436	C25H48O2Si2	010426-36-5	11





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Acq On : 09 May 2024 11:57 pm
Operator : rocquans
Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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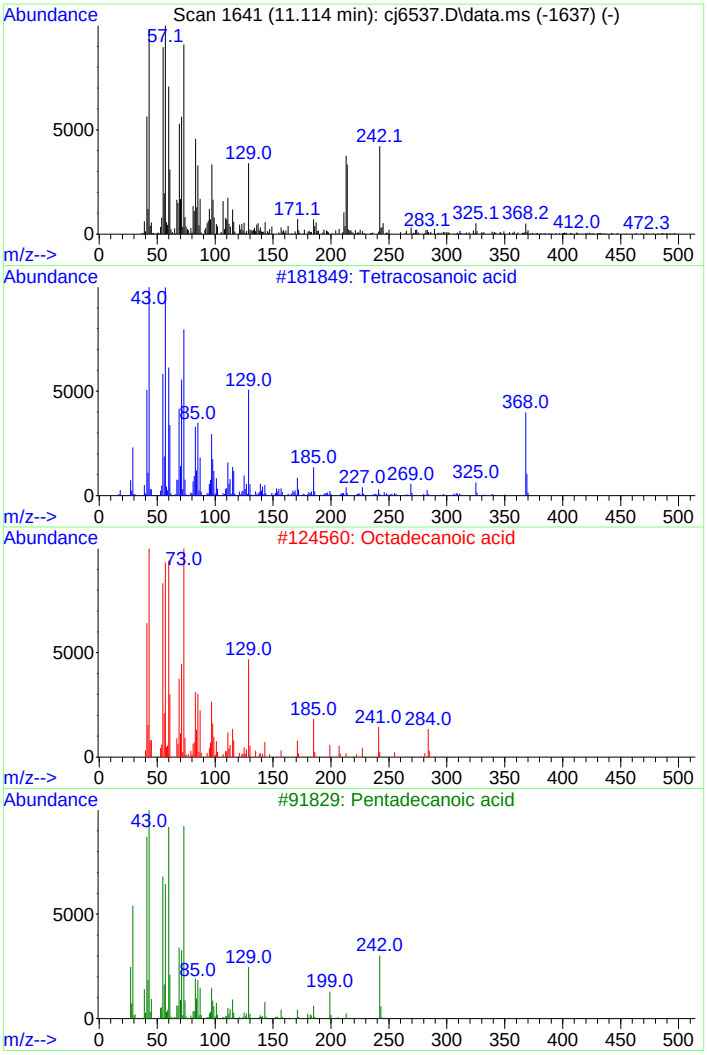
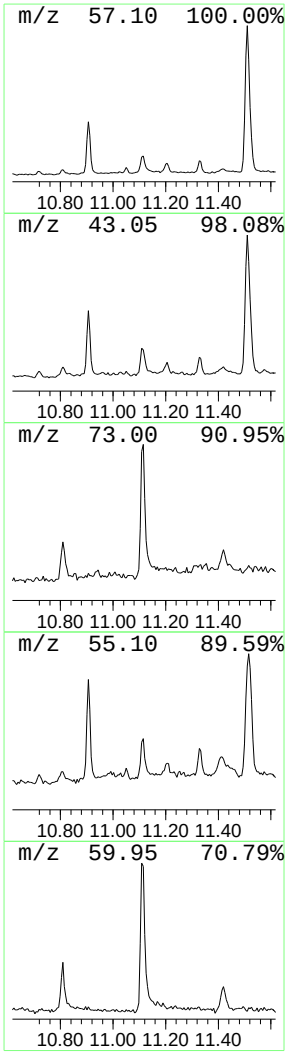
Peak Number 12 Unknown acid Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.115	7.96 ppm	755329	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosanoic acid	368	C24H48O2	000557-59-5	49
2	Octadecanoic acid	284	C18H36O2	000057-11-4	49
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	45
4	Ether, dodecyl isopropyl	228	C15H32O	029379-42-8	38
5	Decanoic acid, silver(1+) salt	278	C10H19AgO2	013126-67-5	38





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Acq On : 09 May 2024 11:57 pm
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Sample : jd87833-16
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ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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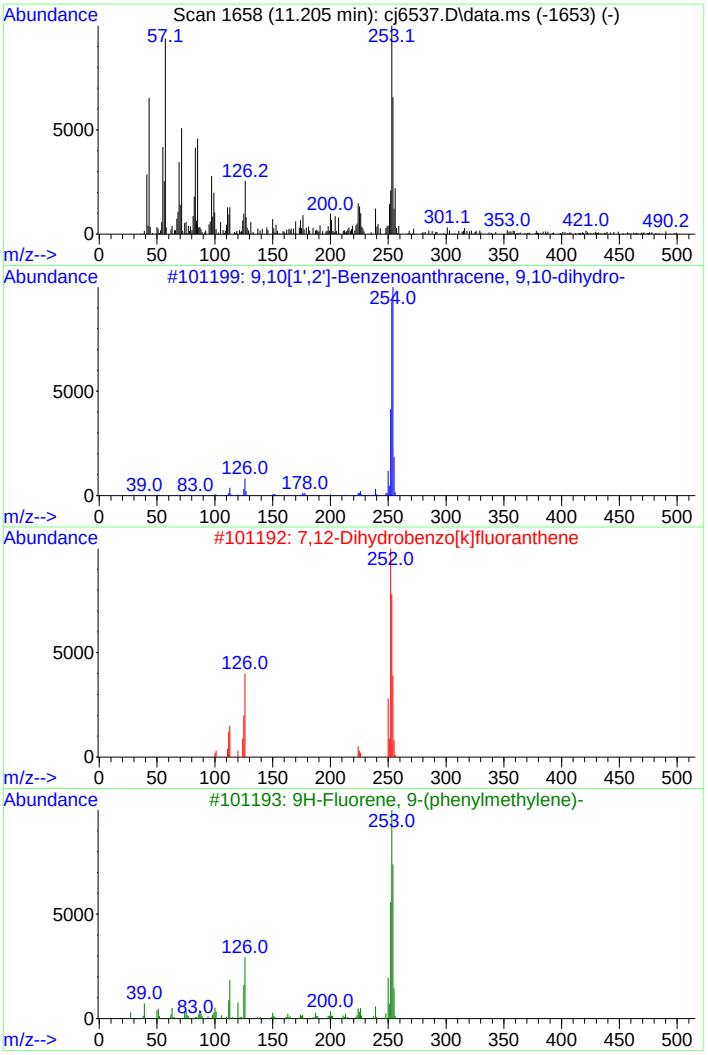
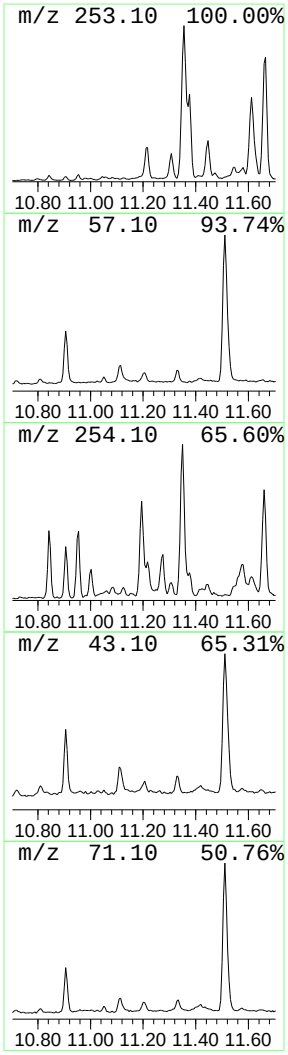
Peak Number 13 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.205	8.41 ppm	798403	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	89
2	7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	68
3	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	55
4	4,6'-Biazulenyl	254	C20H14	094154-49-1	50
5	4,4'-Biazulenyl	254	C20H14	094053-54-0	42





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Operator : rocquans
Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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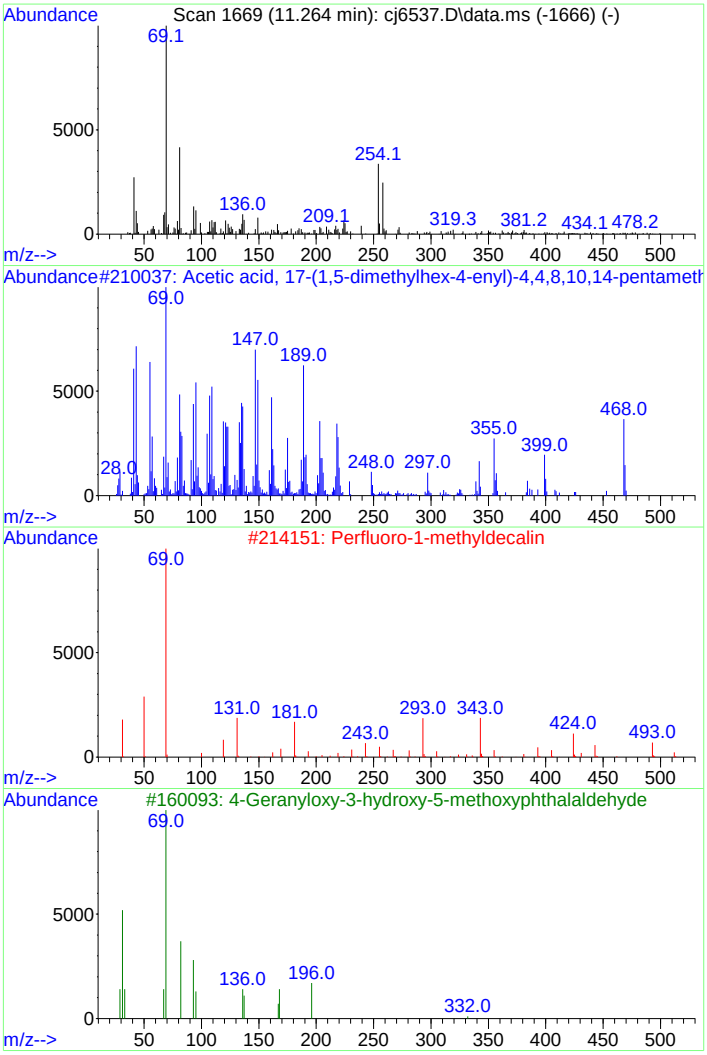
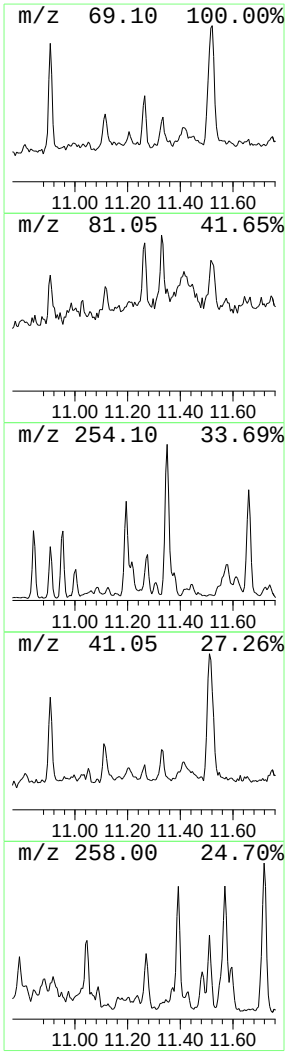
Peak Number 14 Unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.264	4.73 ppm	449295	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetic acid, 17-(1,5-dimethylhex...	468	C32H52O2	1000195-12-9	10
2	Perfluoro-1-methyldecalin	512	C11F20	000306-92-3	4
3	4-Geranyloxy-3-hydroxy-5-methoxy...	332	C19H24O5	076878-70-1	4
4	p-Menthon-8-thiol	186	C10H18OS	033281-91-3	2
5	N-[4,6-Bis-(2,2,2-trifluoro-1-tr...	444	C9H4F12N4O3	1000303-36-1	2





Library Search Compound Report

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Data File : cj6537.D
Acq On : 09 May 2024 11:57 pm
Operator : rocquans
Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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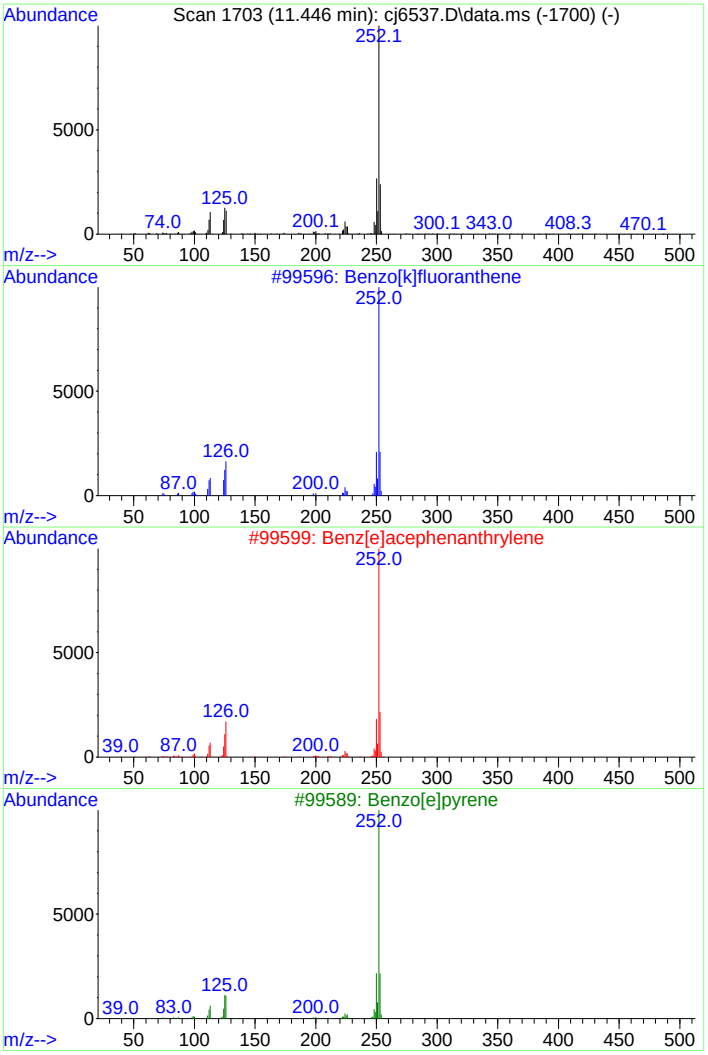
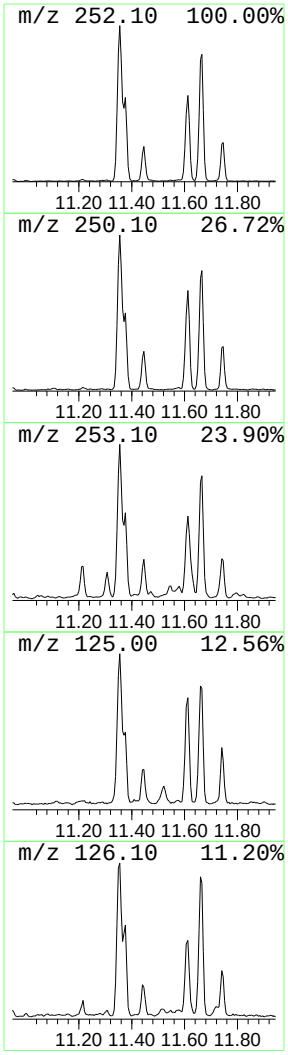
Peak Number 15 Unknown PHA Substance Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.446	10.27 ppm	974979	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
3	Benzo[e]pyrene	252	C20H12	000192-97-2	93
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	89





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Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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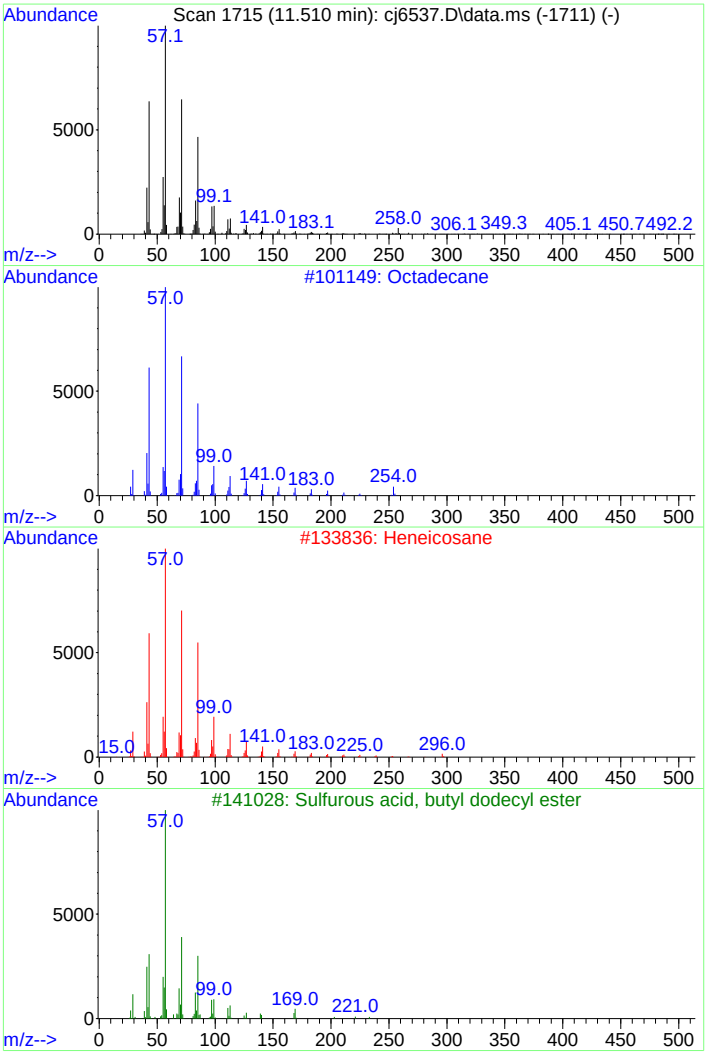
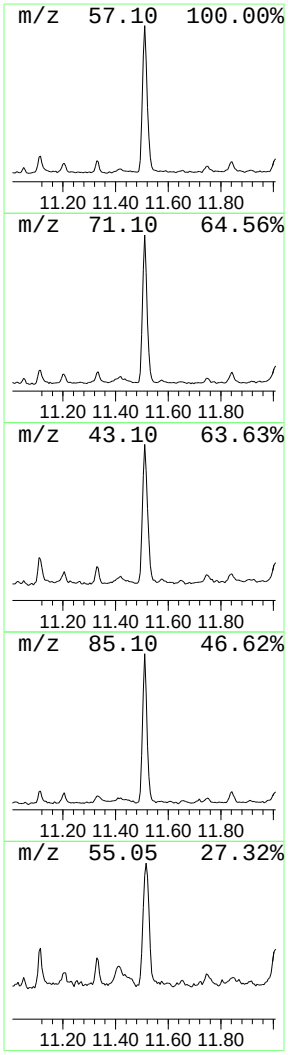
Peak Number 16 Alkane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.510	23.97 ppm	2274720	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	96
2	Heneicosane	296	C21H44	000629-94-7	94
3	Sulfurous acid, butyl dodecyl ester	306	C16H34O3S	1000309-17-9	91
4	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	90
5	Octacosane	394	C28H58	000630-02-4	90





Library Search Compound Report

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Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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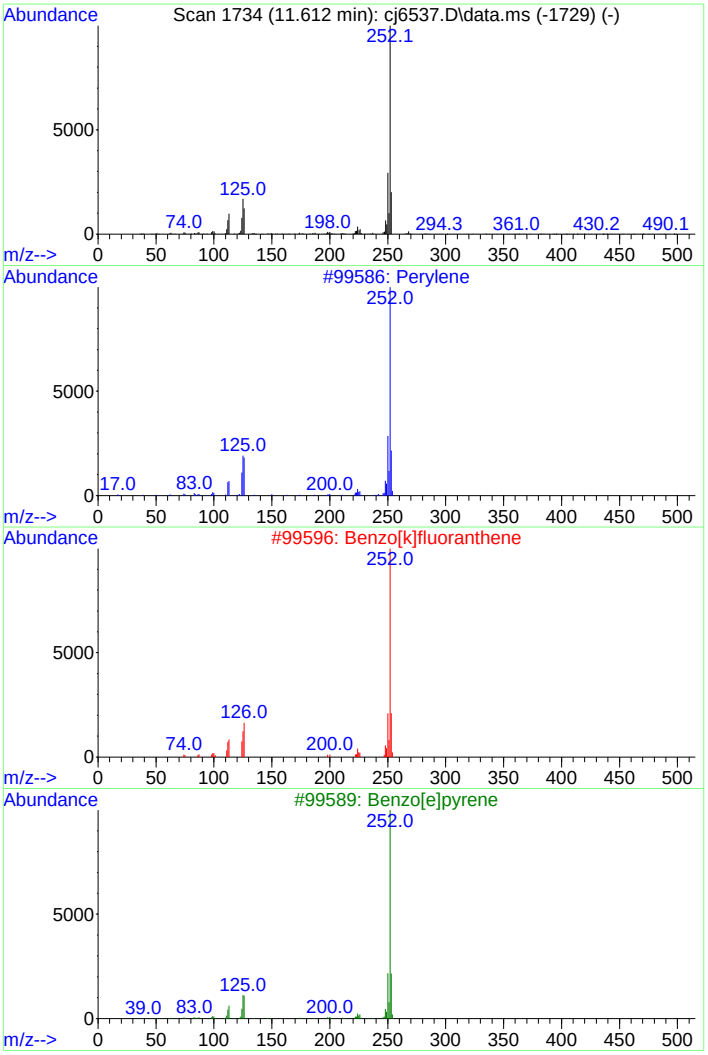
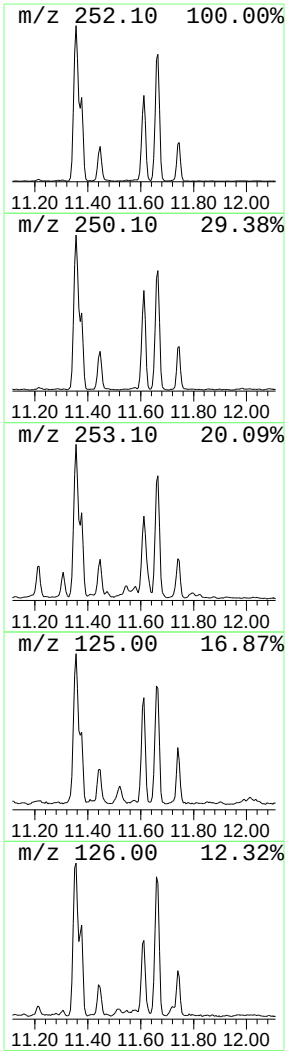
Peak Number 17 Unknown PHA Substance Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.612	15.63 ppm	1483180	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
3	Benzo[e]pyrene	252	C20H12	000192-97-2	98
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	93





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Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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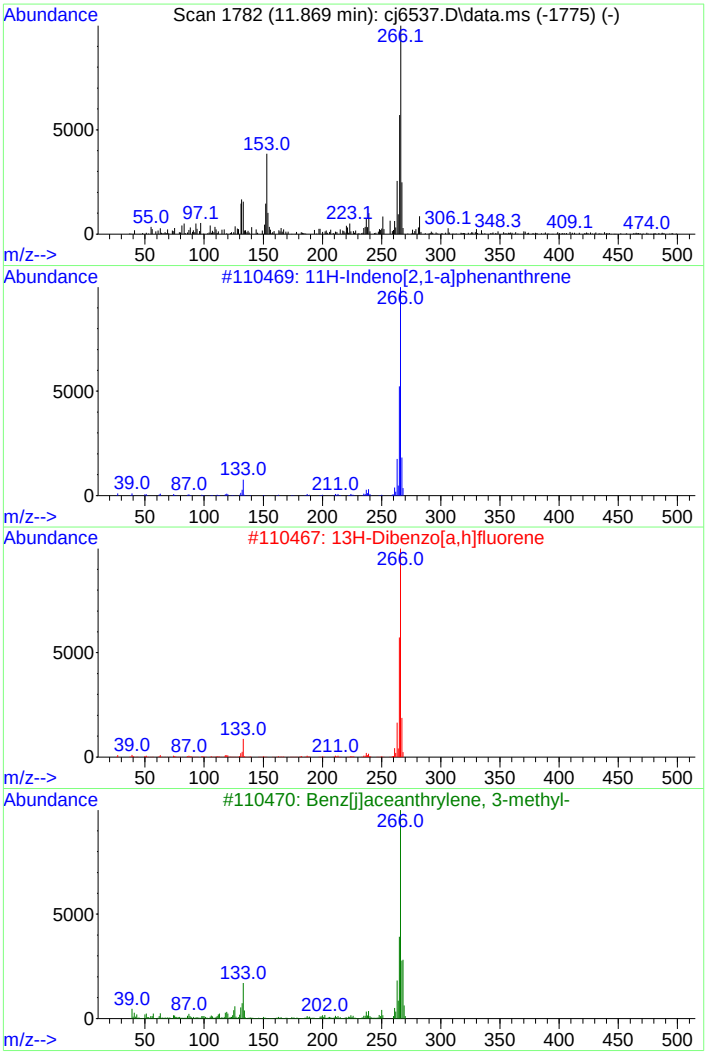
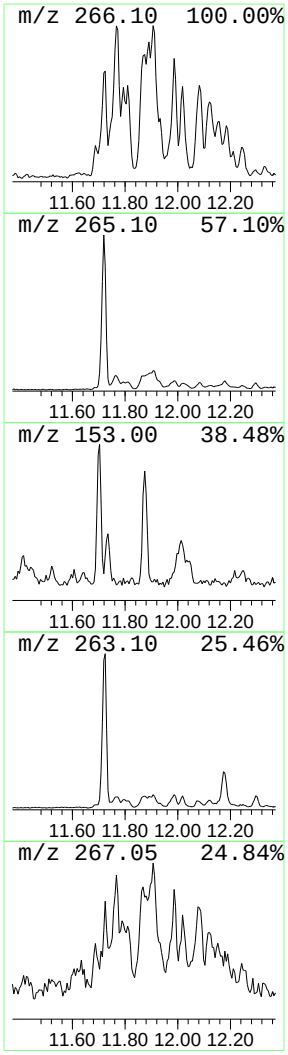
Peak Number 18 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.869	5.75 ppm	545561	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	64
2	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	60
3	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	55
4	1-Phosphacyclopent-2-ene, 1,5-di...	266	C18H19P	1000162-78-2	53
5	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	50





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Acq On : 09 May 2024 11:57 pm
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Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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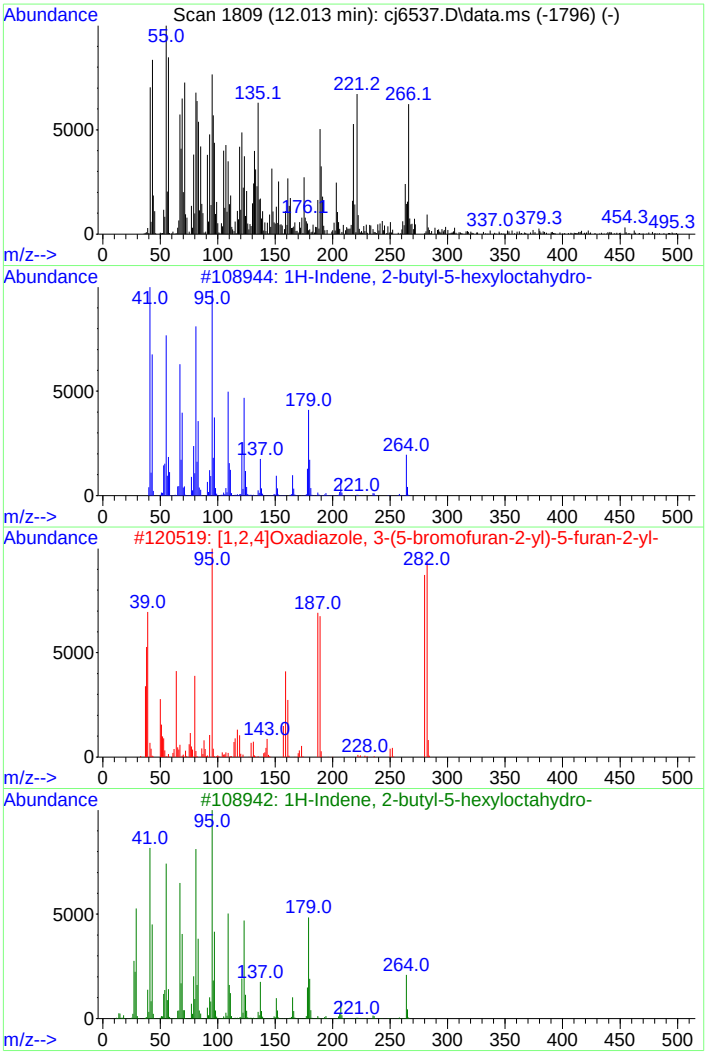
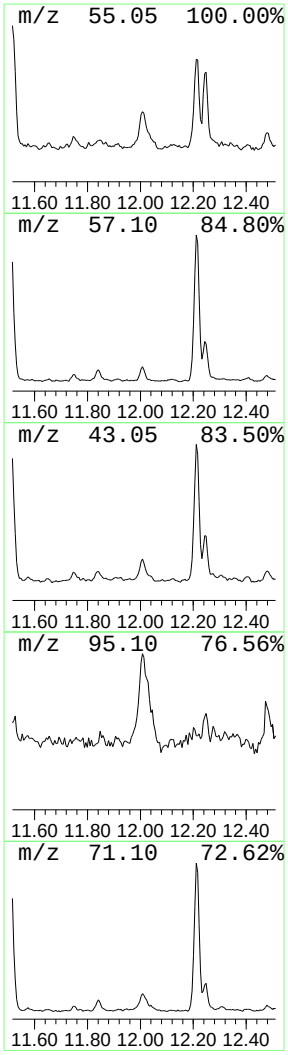
Peak Number 19 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.013	19.54 ppm	1854200	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2-butyl-5-hexyloctahy...	264	C19H36	055044-33-2	55
2	[1,2,4]Oxadiazole, 3-(5-bromofur...	280	C10H5BrN2O3	1000303-56-3	53
3	1H-Indene, 2-butyl-5-hexyloctahy...	264	C19H36	055044-33-2	53
4	1-Hydroxypyrene	218	C16H10O	005315-79-7	47
5	2,2,6-Trimethyl-1-(2-methyl-cycl...	218	C15H22O	1000188-72-8	42





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Acq On : 09 May 2024 11:57 pm
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Sample : jd87833-16
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ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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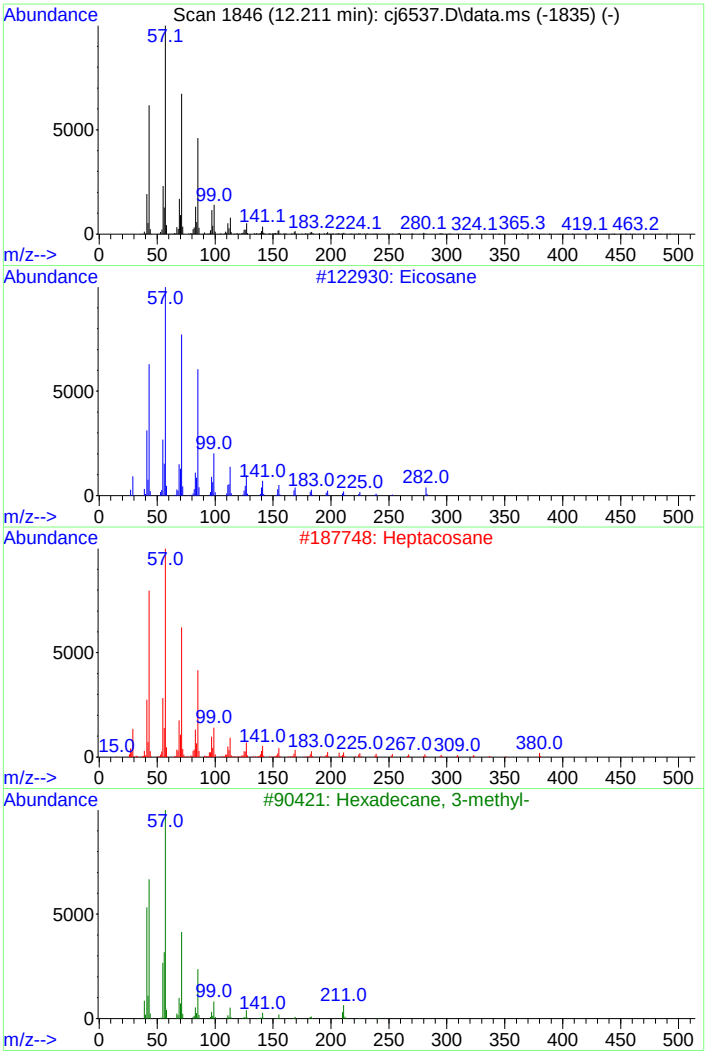
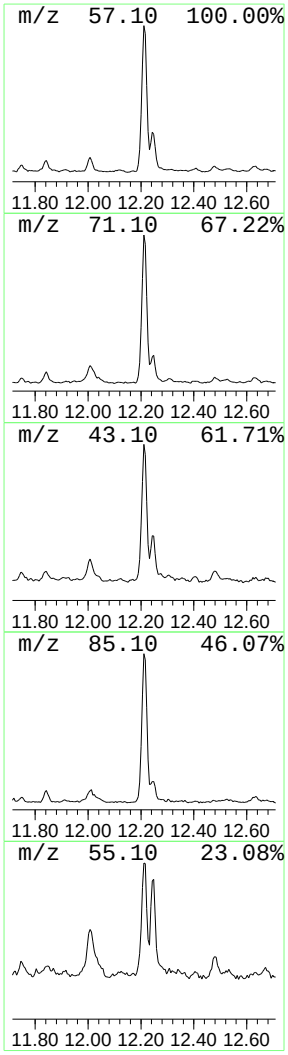
Peak Number 20 Alkane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.211	18.64 ppm	1768990	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	96
2	Heptacosane	380	C27H56	000593-49-7	91
3	Hexadecane, 3-methyl-	240	C17H36	006418-43-5	91
4	Heneicosane, 11-decyl-	437	C31H64	055320-06-4	91
5	Tetratetracontane	619	C44H90	007098-22-8	90





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Sample : jd87833-16
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ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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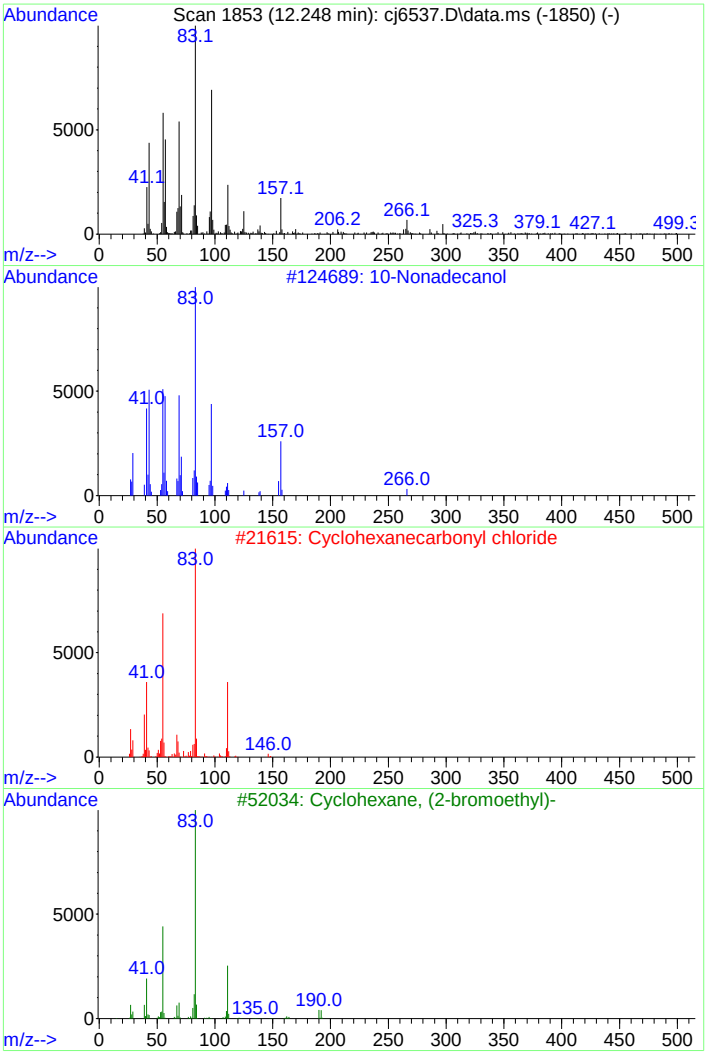
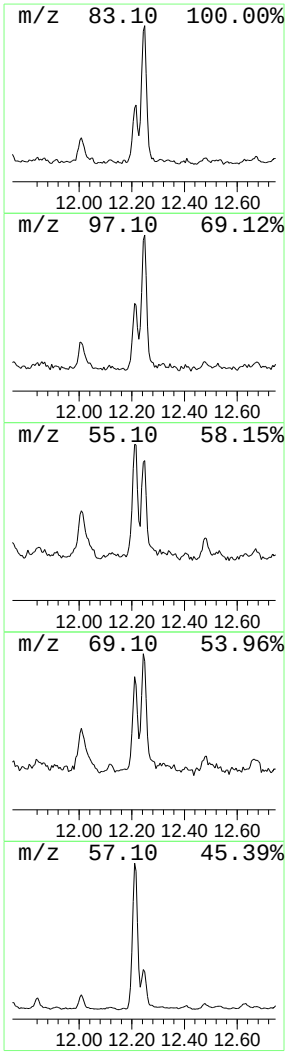
Peak Number 21 Unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.248	7.63 ppm	724478	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10-Nonadecanol	284	C19H40O	016840-84-9	64
2	Cyclohexanecarbonyl chloride	146	C7H11ClO	002719-27-9	43
3	Cyclohexane, (2-bromoethyl)-	190	C8H15Br	001647-26-3	43
4	3-Dodecylcyclohexanone	266	C18H34O	138695-42-8	38
5	5-Methyl-3-heptene	112	C8H16	050422-80-5	35





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Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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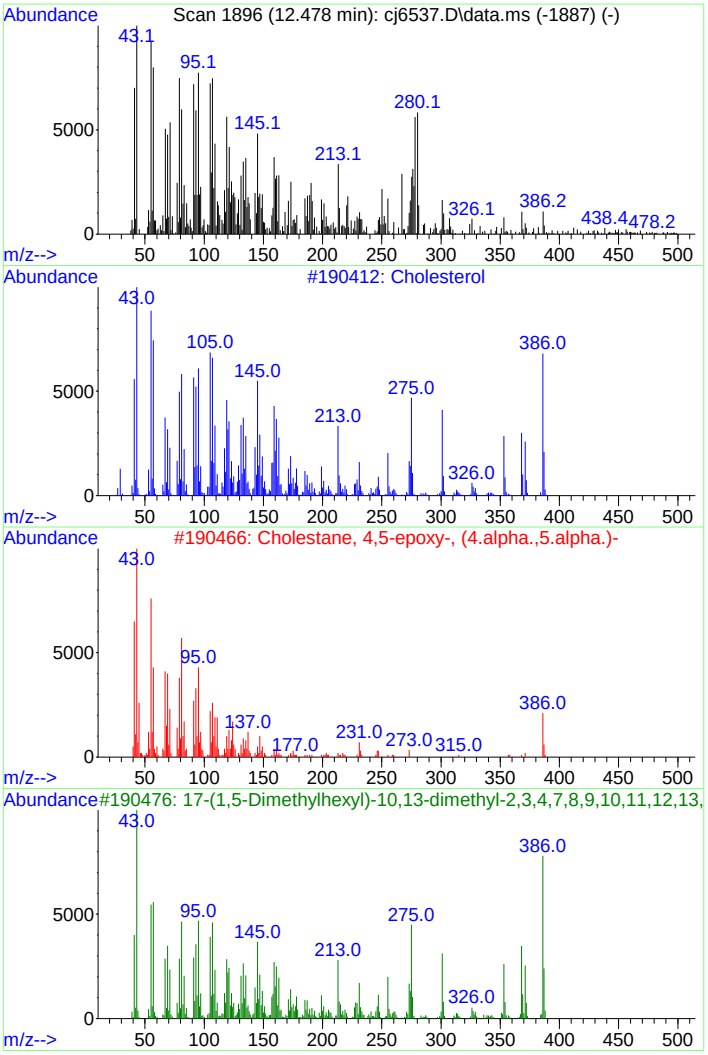
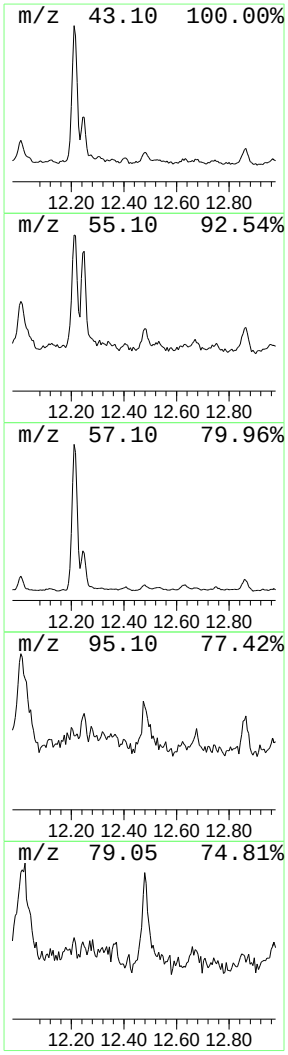
Peak Number 22 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.478	6.75 ppm	640769	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cholesterol	386	C27H46O	000057-88-5	94
2	Cholestane, 4,5-epoxy-, (4.alpha...	386	C27H46O	006079-19-2	46
3	17-(1,5-Dimethylhexyl)-10,13-dim...	386	C27H46O	1000210-38-4	43
4	Cholest-5-en-3-ol (3.beta.)-, ac...	428	C29H48O2	000604-35-3	38
5	Malononitrile, 2-(1,7,7-trimethy...	280	C18H20N2O	1000164-42-4	35





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Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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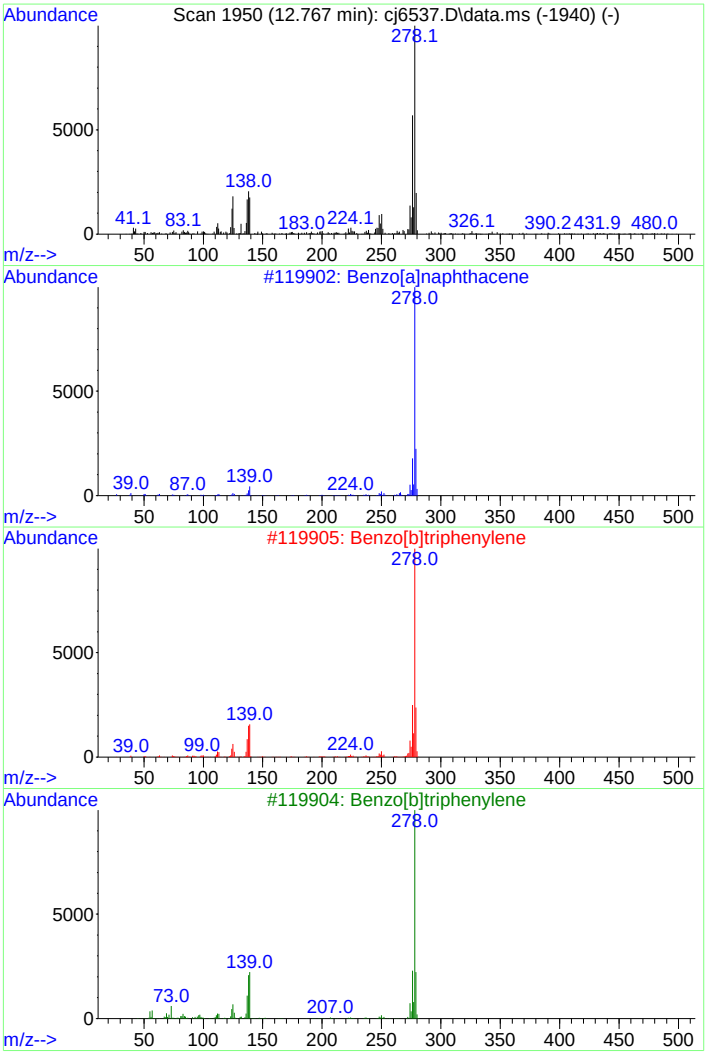
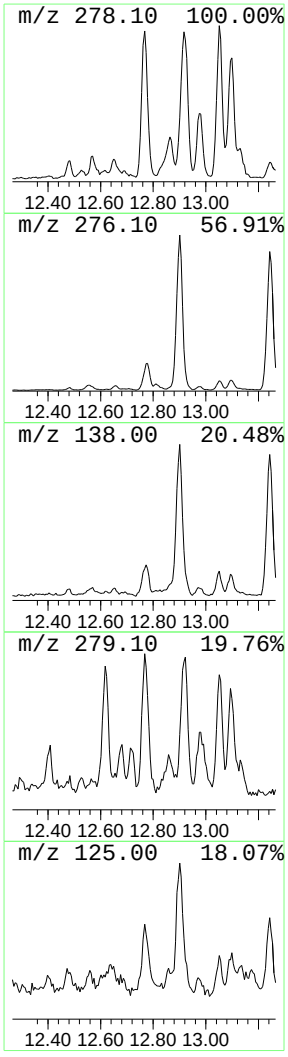
Peak Number 23 Unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.767	5.76 ppm	546735	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[a]naphthacene	278	C22H14	000226-88-0	76
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	70
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	64
4	Benzoic acid, 3,5-dibromo-2-hydr...	308	C8H6Br2O3	021702-79-4	59
5	Benz[a]anthracene-7,12-dicarboni...	278	C20H10N2	035215-32-8	53





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Sample : jd87833-16
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ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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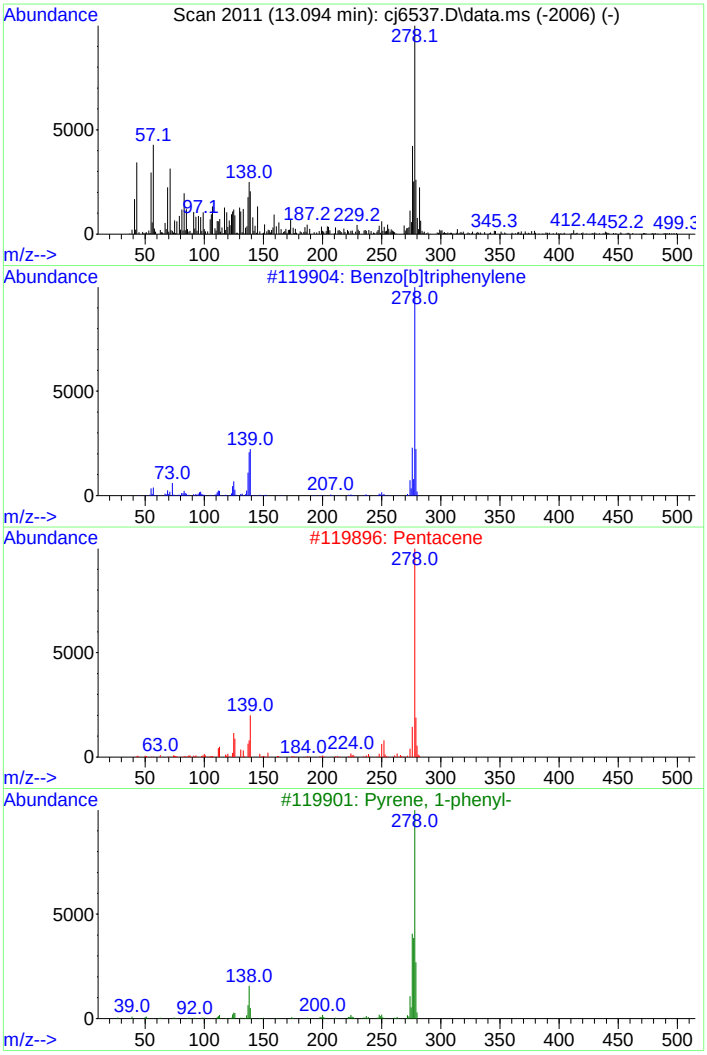
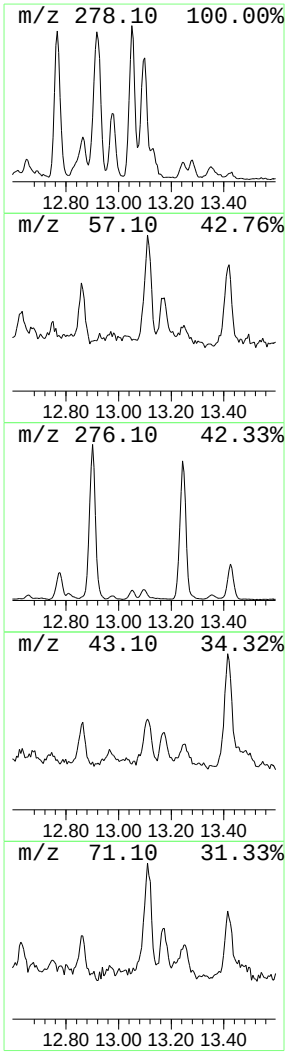
Peak Number 24 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.094	11.41 ppm	1082910	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	64
2	Pentacene	278	C22H14	000135-48-8	64
3	Pyrene, 1-phenyl-	278	C22H14	005101-27-9	60
4	Benzo[b]triphenylene	278	C22H14	000215-58-7	60
5	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	55





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Sample : jd87833-16
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ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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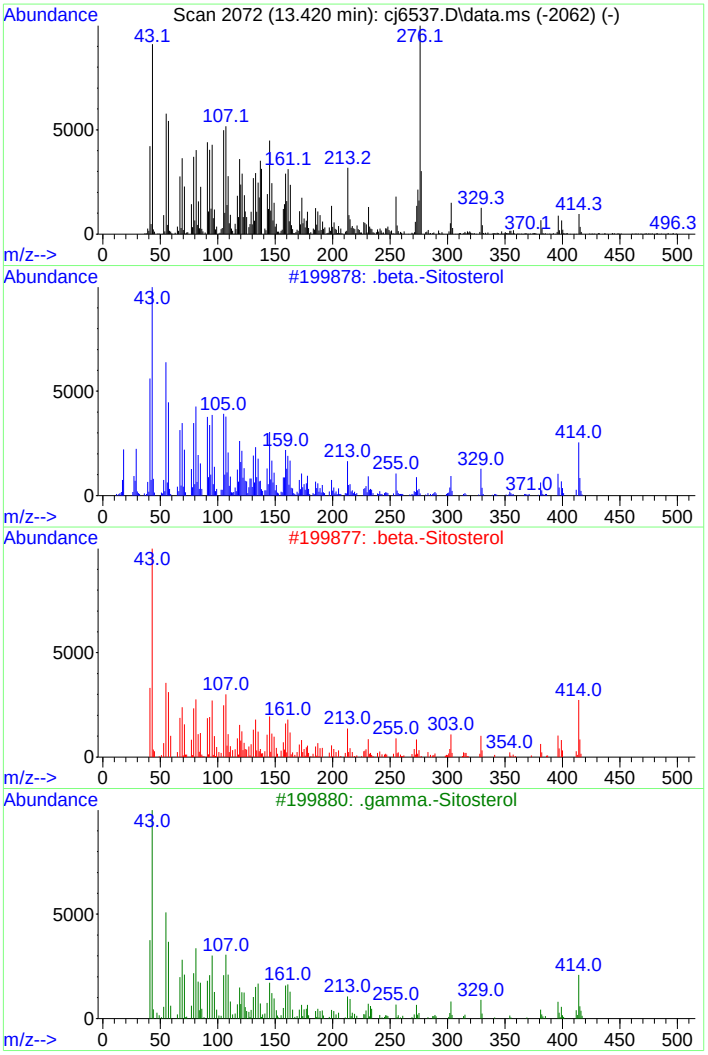
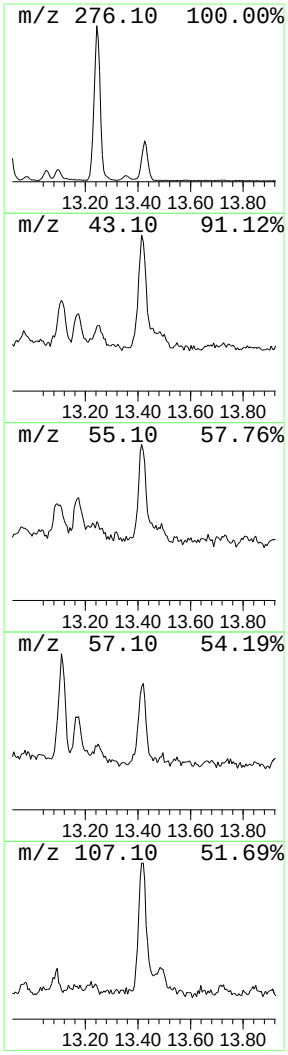
Peak Number 25 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.420	26.21 ppm	2488060	Perylene-d12	11.719

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Sitosterol	414	C29H50O	000083-46-5	97
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	90
3	.gamma.-Sitosterol	414	C29H50O	000083-47-6	83
4	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	55
5	Benzo[ghi]perylene	276	C22H12	000191-24-2	53





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6537.D
Acq On : 09 May 2024 11:57 pm
Operator : rocquans
Sample : jd87833-16
Misc : op54460,ecj297,30.3,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.247	8.4	ppm	450709	2	4.664	2147240	40.0
Unknown	4.487	4.6	ppm	247872	2	4.664	2147240	40.0
n-Hexadecanoic ...	8.371	6.9	ppm	551912	8	7.873	3206070	40.0
4H-Cyclopenta[d...	8.424	9.7	ppm	777423	8	7.873	3206070	40.0
Unknown	8.601	4.7	ppm	374509	8	7.873	3206070	40.0
Unknown	9.045	5.6	ppm	450494	8	7.873	3206070	40.0
Unknown	9.515	5.8	ppm	813986	9	10.366	5636690	40.0
Unknown	9.617	5.9	ppm	829633	9	10.366	5636690	40.0
Unknown	10.494	6.5	ppm	917414	10	10.366	5636690	40.0
Unknown	10.906	8.8	ppm	1239640	10	10.366	5636690	40.0
Unknown	11.050	6.6	ppm	622219	11	11.719	3796660	40.0
Unknown acid	11.115	8.0	ppm	755329	11	11.719	3796660	40.0
Unknown	11.205	8.4	ppm	798403	11	11.719	3796660	40.0
Unknown	11.264	4.7	ppm	449295	11	11.719	3796660	40.0
Unknown PHA Sub...	11.446	10.3	ppm	974979	11	11.719	3796660	40.0
Alkane	11.510	24.0	ppm	2274720	11	11.719	3796660	40.0
Unknown PHA Sub...	11.612	15.6	ppm	1483180	11	11.719	3796660	40.0
Unknown	11.869	5.8	ppm	545561	11	11.719	3796660	40.0
Unknown	12.013	19.5	ppm	1854200	11	11.719	3796660	40.0
Alkane	12.211	18.6	ppm	1768990	11	11.719	3796660	40.0
Unknown	12.248	7.6	ppm	724478	11	11.719	3796660	40.0
Unknown	12.478	6.8	ppm	640769	11	11.719	3796660	40.0
Unknown	12.767	5.8	ppm	546735	11	11.719	3796660	40.0
Unknown	13.094	11.4	ppm	1082910	11	11.719	3796660	40.0
Unknown	13.420	26.2	ppm	2488060	11	11.719	3796660	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6555.D
Acq On : 10 May 2024 12:26 pm
Operator : karimam
Sample : jd87833-17 Inst : GCMSCJ
Misc : op54467,ecj298,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 10 17:20:09 2024
Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Fri May 10 16:32:52 2024
Response via : Initial Calibration

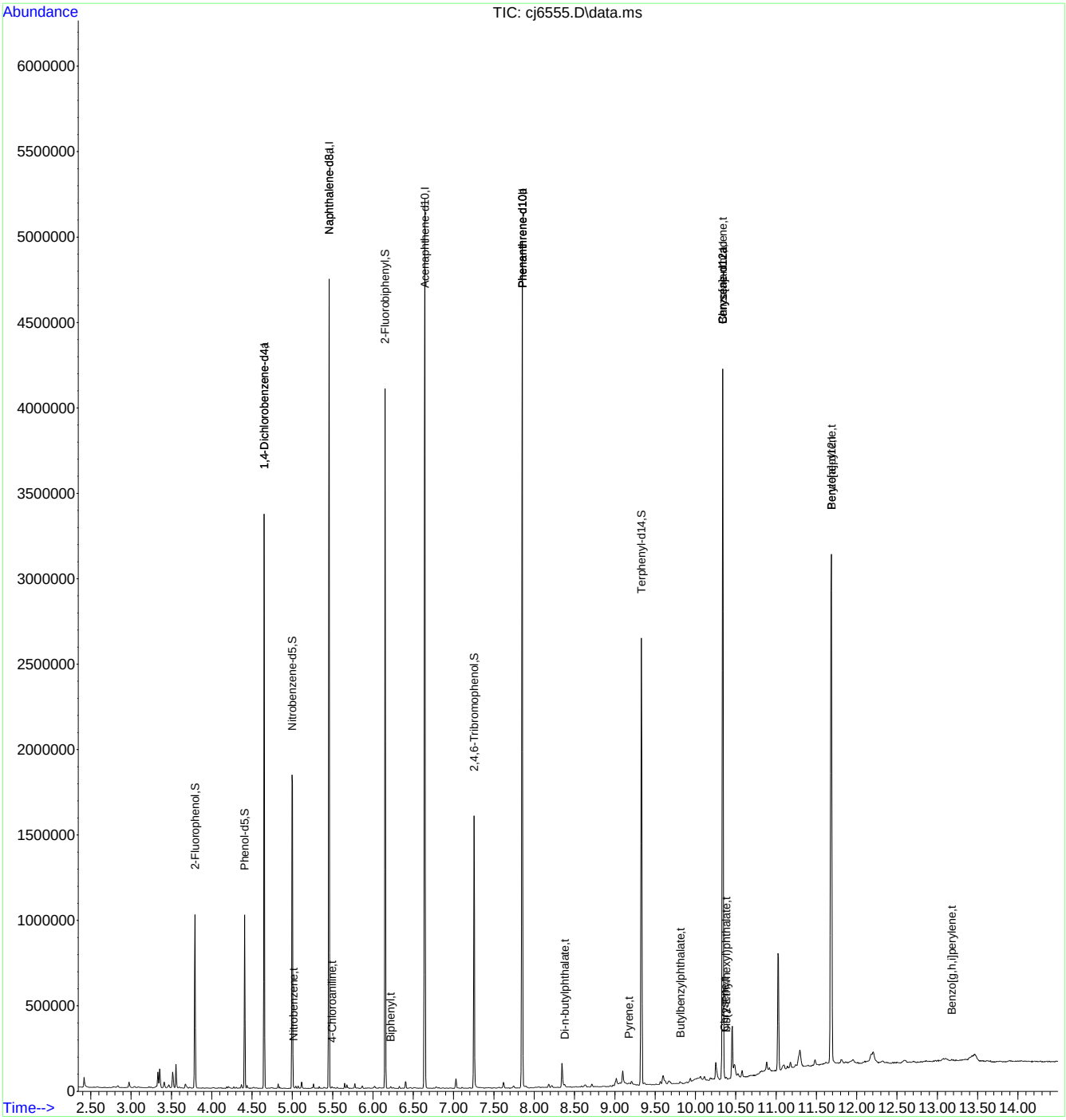
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.648	152	373478	40.00	ppm	0.00
24) Naphthalene-d8	5.455	136	1363075	40.00	ppm	0.00
46) Acenaphthene-d10	6.643	164	803570	40.00	ppm	0.00
69) Phenanthrene-d10	7.852	188	1500212	40.00	ppm	0.00
84) Chrysene-d12	10.339	240	1166943	40.00	ppm	-0.01
93) Perylene-d12	11.687	264	1162453	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.648	152	373478	40.00	ppm	0.00
105) Phenanthrene-d10a	7.852	188	1500212	40.00	ppm	0.00
107) Naphthalene-d8a	5.455	136	1363075	40.00	ppm	0.00
109) Phenanthrene-d10b	7.852	188	1500212	40.00	ppm	0.00
112) Chrysene-d12a	10.339	240	1166943	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.792	112	188436	17.55	ppm	0.00
Spiked Amount 50.000			Recovery = 35.10%			
8) Phenol-d5	4.407	99	170690	12.33	ppm	0.00
Spiked Amount 50.000			Recovery = 24.66%			
25) Nitrobenzene-d5	4.995	82	461773	33.09	ppm	0.00
Spiked Amount 50.000			Recovery = 66.18%			
51) 2-Fluorobiphenyl	6.151	172	816257	32.28	ppm	0.00
Spiked Amount 50.000			Recovery = 64.56%			
74) 2,4,6-Tribromophenol	7.253	330	124134	37.74	ppm	-0.01
Spiked Amount 50.000			Recovery = 75.48%			
87) Terphenyl-d14	9.328	244	743243	25.78	ppm	0.00
Spiked Amount 50.000			Recovery = 51.56%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
26) Nitrobenzene	5.012	77	3751	0.2619	ppm	81
39) 4-Chloroaniline	5.493	127	1031	0.0751	ppm	69
53) Biphenyl	6.220	154	2036	0.0737	ppm	96
81) Di-n-butylphthalate	8.376	149	5206	0.1246	ppm	98
86) Pyrene	9.173	202	1276	0.0322	ppm	92
88) Butylbenzylphthalate	9.815	149	2035	0.1149	ppm	87
89) Benzo[a]anthracene	10.339	228	4879	0.1300	ppm	61
91) Chrysene	10.360	228	1290	0.0373	ppm	83
92) bis(2-Ethylhexyl)phtha...	10.382	149	3076	0.1173	ppm	92
97) Benzo[a]pyrene	11.687	252	4874	0.1677	ppm	92
102) Benzo[g,h,i]perylene	13.179	276	1241	0.0454	ppm	72

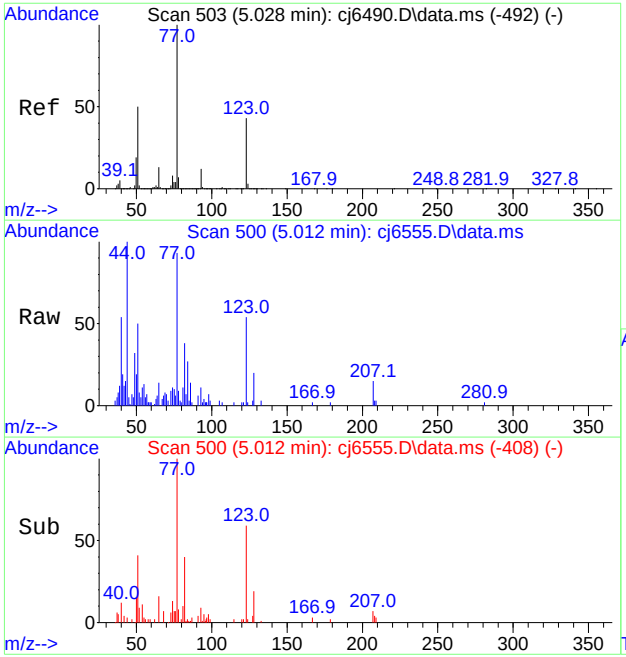
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6555.D
Acq On : 10 May 2024 12:26 pm
Operator : karimam
Sample : jd87833-17 Inst : GCMSCJ
Misc : op54467,ecj298,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 10 17:20:09 2024
Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Fri May 10 16:32:52 2024
Response via : Initial Calibration

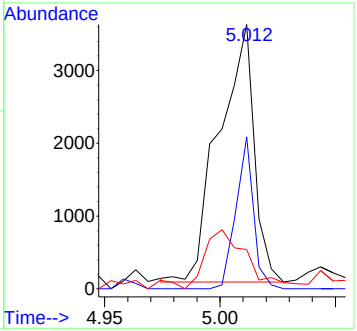


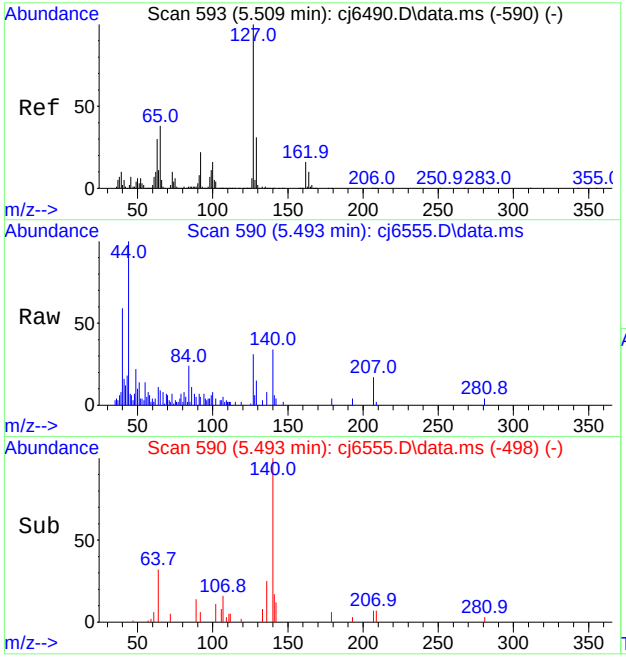


#26
Nitrobenzene
Concen: 0.2619 ppm
RT: 5.012 min Scan# 500
Delta R.T. -0.005 min
Lab File: cj6555.D
Acq: 10 May 2024 12:26 pm

Tgt Ion: 77 Resp: 3751

Ion	Ratio	Lower	Upper
77	100		
123	59.4	13.6	73.6
65	12.5	0.0	43.7

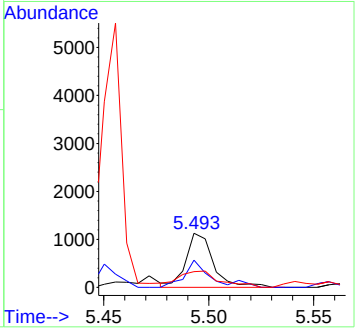


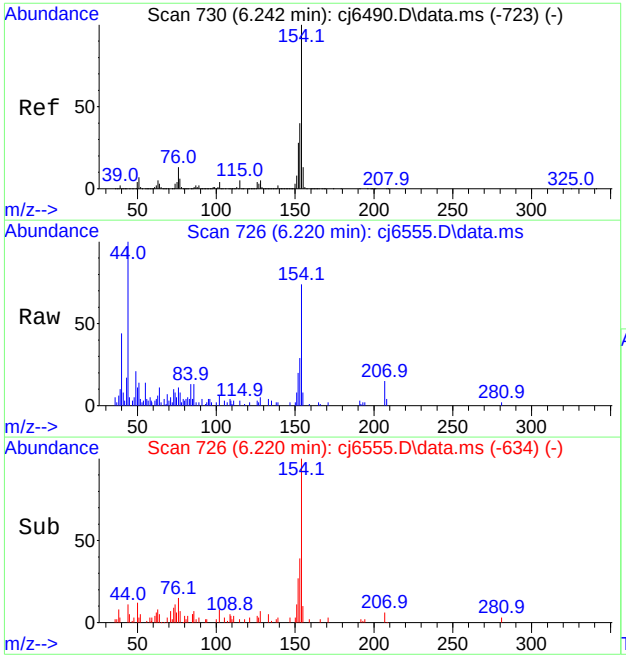


#39
4-Chloroaniline
Concen: 0.0751 ppm
RT: 5.493 min Scan# 590
Delta R.T. -0.005 min
Lab File: cj6555.D
Acq: 10 May 2024 12:26 pm

Tgt Ion:127 Resp: 1031

Ion	Ratio	Lower	Upper
127	100		
129	52.5	1.2	61.2
65	22.8	7.3	67.3

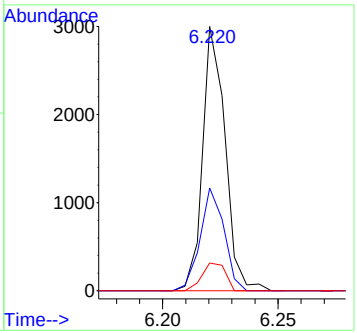


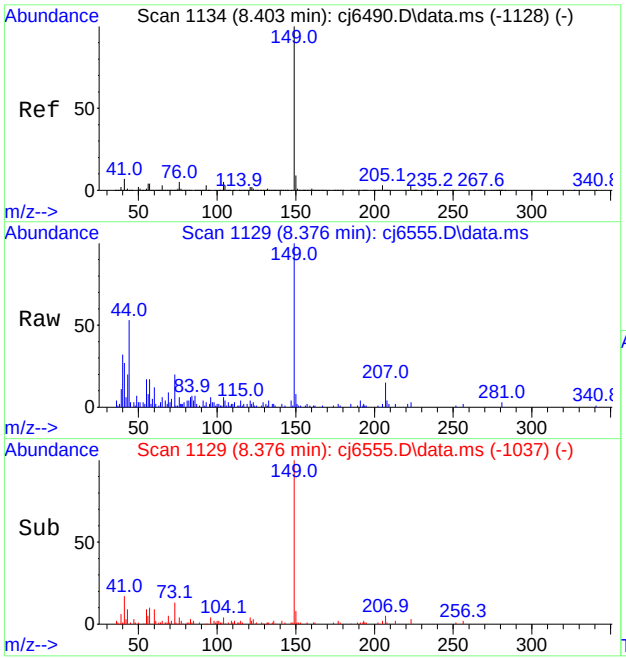


#53
Biphenyl
Concen: 0.0737 ppm
RT: 6.220 min Scan# 726
Delta R.T. -0.005 min
Lab File: cj6555.D
Acq: 10 May 2024 12:26 pm

Tgt Ion:154 Resp: 2036

Ion	Ratio	Lower	Upper
154	100		
153	38.9	10.5	70.5
155	10.5	0.0	43.4

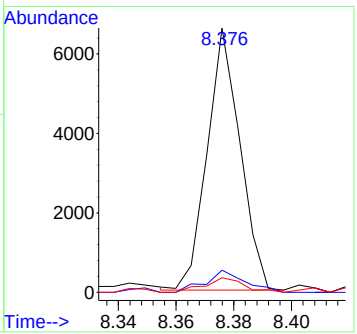


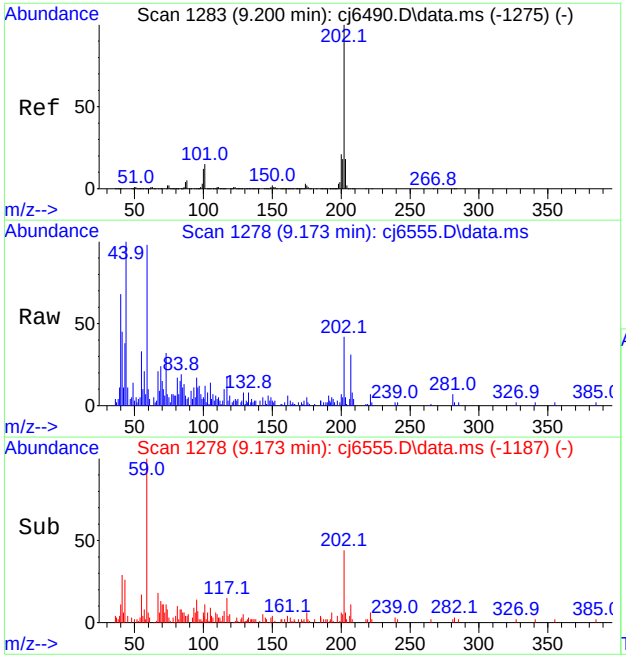


#81
Di-n-butylphthalate
Concen: 0.1246 ppm
RT: 8.376 min Scan# 1129
Delta R.T. -0.005 min
Lab File: cj6555.D
Acq: 10 May 2024 12:26 pm

Tgt Ion:149 Resp: 5206

Ion	Ratio	Lower	Upper
149	100		
150	8.5	0.0	39.5
104	5.6	0.0	35.3

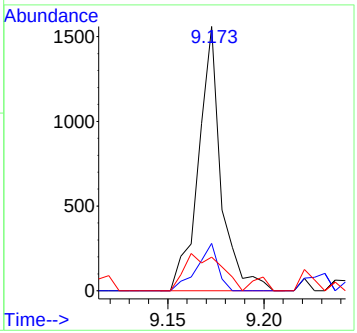


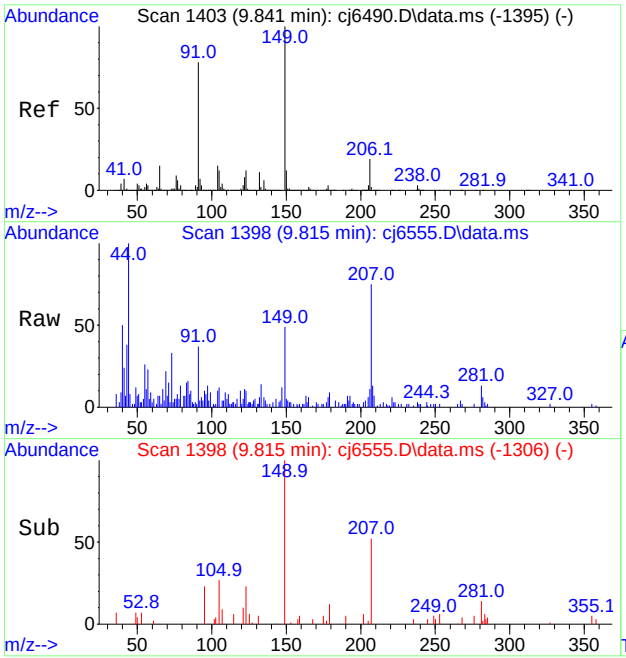


#86
Pyrene
Concen: 0.0322 ppm
RT: 9.173 min Scan# 1278
Delta R.T. -0.011 min
Lab File: cj6555.D
Acq: 10 May 2024 12:26 pm

Tgt Ion:202 Resp: 1276

Ion	Ratio	Lower	Upper
202	100		
200	17.9	0.0	51.1
203	12.7	0.0	47.2

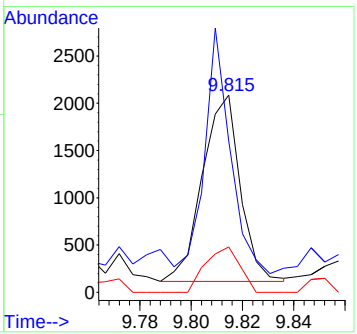


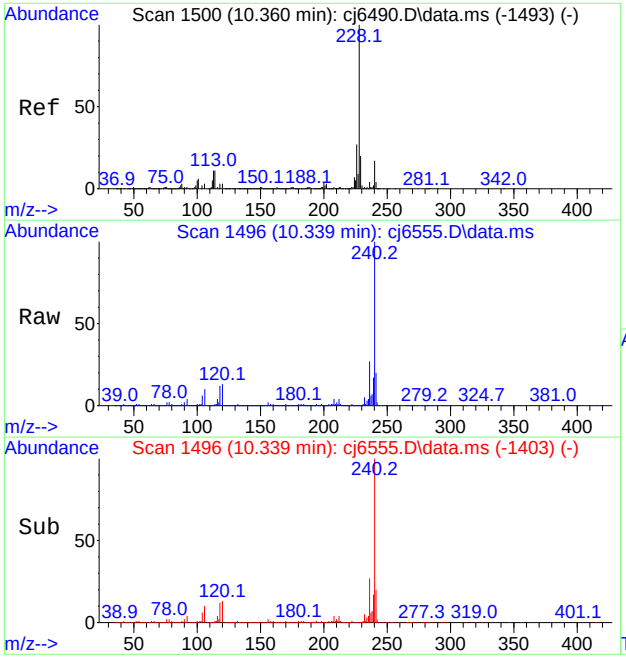


#88
Butylbenzylphthalate
Concen: 0.1149 ppm
RT: 9.815 min Scan# 1398
Delta R.T. -0.005 min
Lab File: cj6555.D
Acq: 10 May 2024 12:26 pm

Tgt Ion:149 Resp: 2035

Ion	Ratio	Lower	Upper
149	100		
91	63.7	44.0	104.0
206	24.7	0.0	48.0

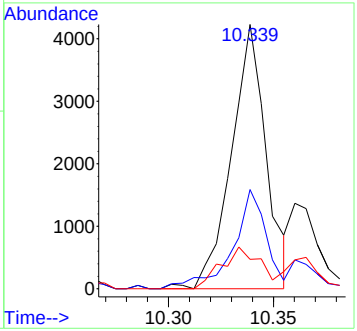


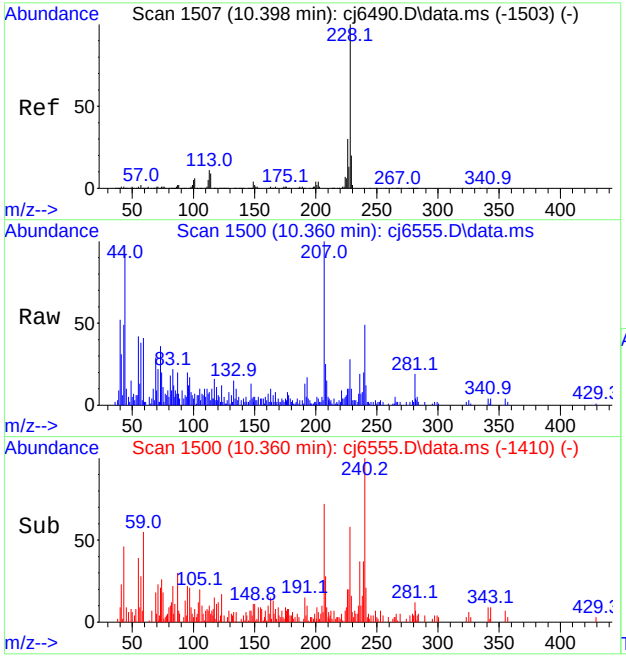


#89
Benzo[a]anthracene
Concen: 0.1300 ppm
RT: 10.339 min Scan# 1496
Delta R.T. -0.000 min
Lab File: cj6555.D
Acq: 10 May 2024 12:26 pm

Tgt Ion:228 Resp: 4879

Ion	Ratio	Lower	Upper
228	100		
229	40.0	0.0	49.6
226	8.8	0.0	57.0

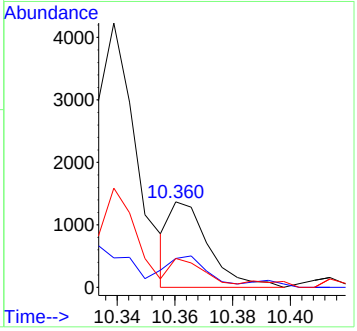


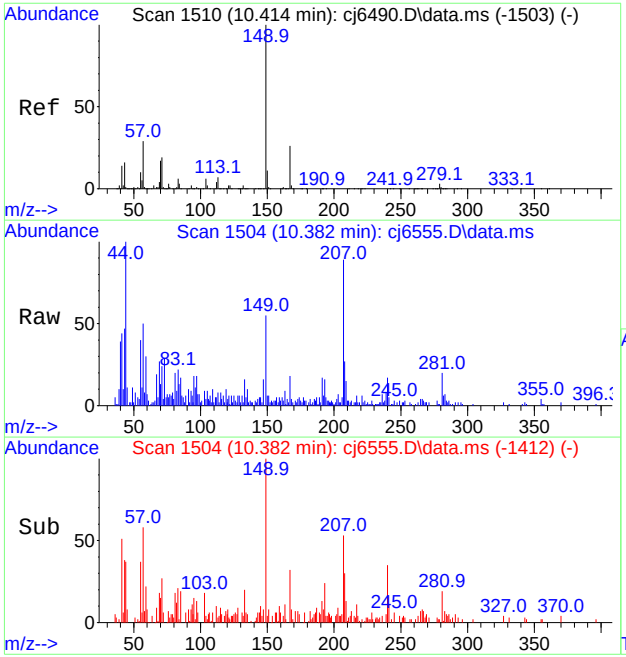


#91
Chrysene
Concen: 0.0373 ppm
RT: 10.360 min Scan# 1500
Delta R.T. -0.016 min
Lab File: cj6555.D
Acq: 10 May 2024 12:26 pm

Tgt Ion:228 Resp: 1290

Ion	Ratio	Lower	Upper
228	100		
226	31.9	0.0	60.0
229	36.6	0.0	49.4

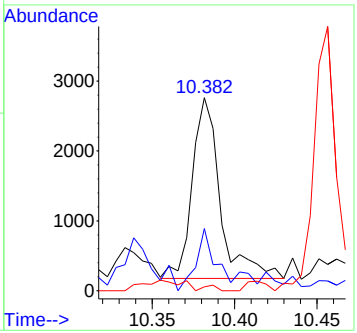


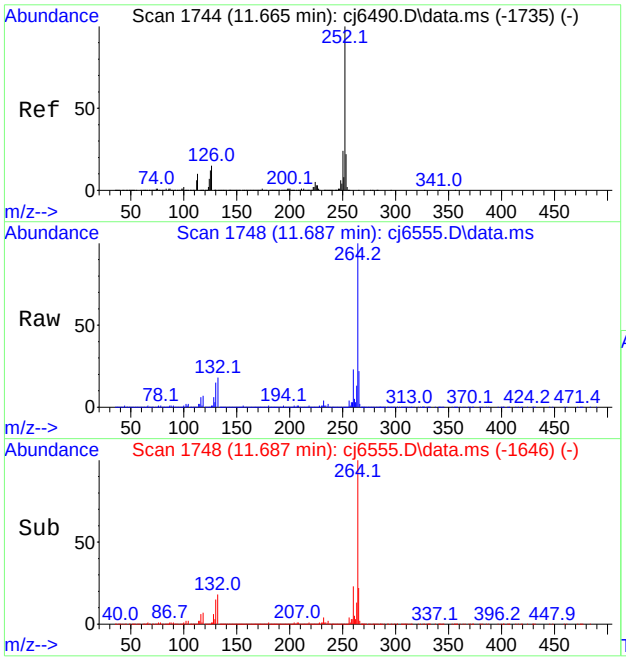


#92
bis(2-Ethylhexyl)phthalate
Concen: 0.1173 ppm
RT: 10.382 min Scan# 1504
Delta R.T. -0.005 min
Lab File: cj6555.D
Acq: 10 May 2024 12:26 pm

Tgt Ion:149 Resp: 3076

Ion	Ratio	Lower	Upper
149	100		
167	29.9	0.0	55.7
279	0.0	0.0	32.8

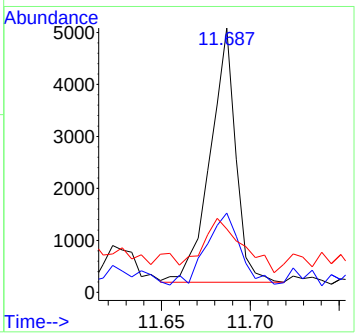


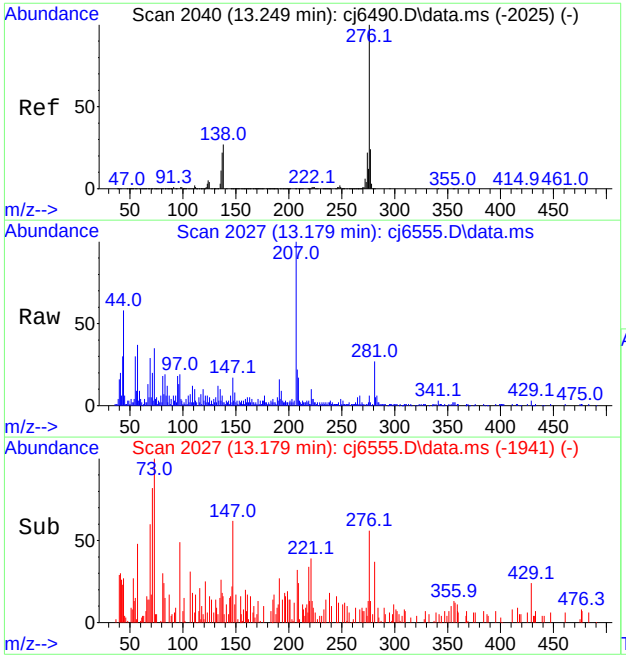


#97
Benzo[a]pyrene
Concen: 0.1677 ppm
RT: 11.687 min Scan# 1748
Delta R.T. 0.048 min
Lab File: cj6555.D
Acq: 10 May 2024 12:26 pm

Tgt Ion:252 Resp: 4874

Ion	Ratio	Lower	Upper
252	100		
253	27.3	0.0	51.8
125	12.0	0.0	43.2

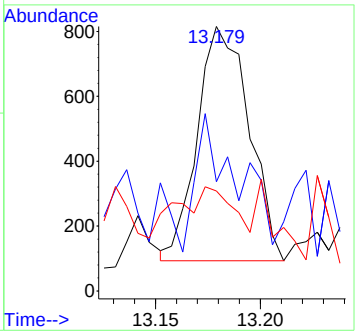




#102
Benzo[g,h,i]perylene
Concen: 0.0454 ppm
RT: 13.179 min Scan# 2027
Delta R.T. -0.037 min
Lab File: cj6555.D
Acq: 10 May 2024 12:26 pm

Tgt Ion:276 Resp: 1241

Ion	Ratio	Lower	Upper
276	100		
138	9.0	0.0	56.2
277	12.9	0.0	54.1



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6555.D
Acq On : 10 May 2024 12:26 pm
Operator : karimam
Sample : jd87833-17
Misc : op54467,ecj298,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6555.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.417	10	15	27	rVB	58666	63610	1.69%	0.196%
2	2.835	89	93	100	rVB2	12691	15427	0.41%	0.048%
3	2.974	110	119	126	rBV	33036	35814	0.95%	0.110%
4	3.038	126	131	136	rVV7	7333	10491	0.28%	0.032%
5	3.091	136	141	146	rVV7	6603	10531	0.28%	0.032%
6	3.332	174	186	188	rBV	93295	91109	2.43%	0.281%
7	3.353	188	190	195	rVV	111233	91563	2.44%	0.282%
8	3.412	196	201	206	rVV	34409	33728	0.90%	0.104%
9	3.466	206	211	215	rVV	18891	23706	0.63%	0.073%
10	3.514	215	220	225	rVV	93883	87428	2.33%	0.270%
11	3.557	225	228	233	rVV	139751	95428	2.54%	0.294%
12	3.674	246	250	257	rVB2	24970	33353	0.89%	0.103%
13	3.792	265	272	278	rBV	1016992	697304	18.58%	2.150%
14	4.209	348	350	357	rVB3	10861	12825	0.34%	0.040%
15	4.370	375	380	383	rVV	21113	14016	0.37%	0.043%
16	4.407	383	387	391	rVV	1013787	586423	15.62%	1.808%
17	4.439	391	393	399	rVB	18291	14695	0.39%	0.045%
18	4.648	428	432	439	rVB	3363088	2279775	60.74%	7.030%
19	4.744	444	450	460	rVB	5792	10623	0.28%	0.033%
20	4.824	460	465	467	rBV	27635	17019	0.45%	0.052%
21	4.995	492	497	503	rBV	1834983	1335867	35.59%	4.120%
22	5.113	515	519	525	rVB	37946	30908	0.82%	0.095%
23	5.263	539	547	550	rBV2	27297	24446	0.65%	0.075%
24	5.456	577	583	587	rBV	4736974	2918748	77.76%	9.001%
25	5.648	616	619	622	rBV2	31893	22341	0.60%	0.069%
26	5.675	622	624	630	rVB2	21802	17458	0.47%	0.054%
27	5.776	635	643	646	rBV	29303	24488	0.65%	0.076%
28	5.867	655	660	666	rVB2	15698	14695	0.39%	0.045%
29	6.022	682	689	694	rBV5	12009	14473	0.39%	0.045%
30	6.151	706	713	718	rVB	4094866	2446728	65.19%	7.545%
31	6.327	743	746	749	rBV	14147	10229	0.27%	0.032%
32	6.402	756	760	767	rVB	39364	33978	0.91%	0.105%
33	6.509	776	780	787	rBV9	5737	10916	0.29%	0.034%
34	6.643	797	805	815	rVB	5206072	3519468	93.77%	10.853%
35	6.782	827	831	835	rBV6	8920	10081	0.27%	0.031%
36	7.028	873	877	887	rBV	57381	55306	1.47%	0.171%
37	7.253	913	919	931	rBV	1595051	1171246	31.20%	3.612%
38	7.568	971	978	982	rBV8	6867	12976	0.35%	0.040%
39	7.616	982	987	992	rVB	35016	34568	0.92%	0.107%
40	7.745	1006	1011	1016	rVB	13139	15133	0.40%	0.047%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6555.D
Acq On : 10 May 2024 12:26 pm
Operator : karimam
Sample : jd87833-17
Misc : op54467,ecj298,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	7.852	1024	1031	1037	rBV	4958526	3753476	100.00%	11.575%
42	7.895	1037	1039	1048	rVB5	11377	16518	0.44%	0.051%
43	8.183	1089	1093	1096	rBV	20124	20733	0.55%	0.064%
44	8.221	1096	1100	1104	rBV7	12045	15715	0.42%	0.048%
45	8.344	1118	1123	1128	rBV	142508	136170	3.63%	0.420%
46	8.376	1128	1129	1135	rVB	16415	14359	0.38%	0.044%
47	8.633	1171	1177	1183	rBV7	12967	22709	0.61%	0.070%
48	8.713	1188	1192	1196	rBV2	17160	18610	0.50%	0.057%
49	9.018	1244	1249	1254	rBV4	44932	67743	1.80%	0.209%
50	9.066	1254	1258	1260	rVV5	8941	11738	0.31%	0.036%
51	9.098	1260	1264	1274	rVV2	77480	96315	2.57%	0.297%
52	9.210	1282	1285	1295	rVB6	21807	35124	0.94%	0.108%
53	9.328	1302	1307	1312	rBV	2617769	2187252	58.27%	6.745%
54	9.371	1312	1315	1319	rVB3	10789	12143	0.32%	0.037%
55	9.563	1348	1351	1354	rBV4	19351	19818	0.53%	0.061%
56	9.601	1354	1358	1367	rVB	48766	83650	2.23%	0.258%
57	9.670	1367	1371	1379	rBV2	17810	31128	0.83%	0.096%
58	9.809	1393	1397	1405	rBV7	12380	14364	0.38%	0.044%
59	9.895	1405	1413	1415	rBV9	9333	14779	0.39%	0.046%
60	9.938	1415	1421	1424	rBV7	26640	37184	0.99%	0.115%
61	10.023	1424	1437	1439	rVV7	21522	67825	1.81%	0.209%
62	10.061	1441	1444	1449	rVV7	25666	41318	1.10%	0.127%
63	10.114	1449	1454	1458	rVB2	21753	29653	0.79%	0.091%
64	10.184	1464	1467	1469	rBV3	15516	15358	0.41%	0.047%
65	10.253	1473	1480	1489	rVB3	101681	141541	3.77%	0.436%
66	10.339	1489	1496	1502	rBV	4159779	3495477	93.13%	10.779%
67	10.382	1502	1504	1507	rVB4	14017	12387	0.33%	0.038%
68	10.457	1507	1518	1521	rBV	312487	347987	9.27%	1.073%
69	10.483	1521	1523	1529	rVV3	71317	100988	2.69%	0.311%
70	10.526	1529	1531	1537	rVB6	21117	24105	0.64%	0.074%
71	10.580	1537	1541	1545	rBV	39839	38809	1.03%	0.120%
72	10.676	1554	1559	1566	rBV	11389	34439	0.92%	0.106%
73	10.820	1570	1586	1589	rBV	30742	98282	2.62%	0.303%
74	10.884	1589	1598	1602	rVV2	56874	84798	2.26%	0.261%
75	10.917	1602	1604	1609	rVB5	22214	25190	0.67%	0.078%
76	11.024	1620	1624	1630	rBV	687841	652853	17.39%	2.013%
77	11.098	1630	1638	1642	rBV4	32136	68849	1.83%	0.212%
78	11.141	1642	1646	1648	rVV4	19402	21193	0.56%	0.065%
79	11.179	1650	1653	1660	rVV	37765	48373	1.29%	0.149%
80	11.243	1660	1665	1668	rVV6	19486	30025	0.80%	0.093%
81	11.296	1668	1675	1684	rVV4	100082	219929	5.86%	0.678%
82	11.398	1688	1694	1697	rBV8	7770	11722	0.31%	0.036%
83	11.483	1701	1710	1715	rBV4	38328	66622	1.77%	0.205%
84	11.564	1720	1725	1727	rBV6	6198	11043	0.29%	0.034%
85	11.617	1729	1735	1740	rVV10	13898	28883	0.77%	0.089%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6555.D
Acq On : 10 May 2024 12:26 pm
Operator : karimam
Sample : jd87833-17
Misc : op54467,ecj298,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	11.687	1740	1748	1759	rVV	2980656	3358208	89.47%	10.356%
87	11.804	1765	1770	1778	rBV9	22330	38770	1.03%	0.120%
88	11.949	1787	1797	1807	rVB9	19254	57654	1.54%	0.178%
89	12.104	1819	1826	1827	rBV6	13663	20128	0.54%	0.062%
90	12.206	1828	1845	1857	rVB7	67316	261844	6.98%	0.807%
91	12.329	1858	1868	1872	rVV7	12764	32663	0.87%	0.101%
92	12.596	1909	1918	1925	rBV7	16377	50952	1.36%	0.157%
93	12.703	1933	1938	1945	rVB7	9423	17407	0.46%	0.054%
94	12.976	1986	1989	1992	rVV5	9328	10427	0.28%	0.032%
95	13.077	2001	2008	2010	rBV7	14307	22915	0.61%	0.071%
96	13.104	2010	2013	2023	rVV7	14200	30401	0.81%	0.094%
97	13.339	2056	2057	2060	rVV3	11538	13463	0.36%	0.042%
98	13.430	2064	2074	2075	rVV9	32844	81559	2.17%	0.252%
99	13.463	2075	2080	2092	rVB10	44140	130418	3.47%	0.402%
100	13.901	2155	2162	2173	rBV10	8729	24801	0.66%	0.076%

Sum of corrected areas: 32427708

LSC Report - Integrated Chromatogram

```
Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6555.D
Acq On    : 10 May 2024  12:26 pm
Operator  : karimam
Sample    : jd87833-17
Misc      : op54467,ecj298,1000,,,1,1
ALS Vial  : 11   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Quant Title  : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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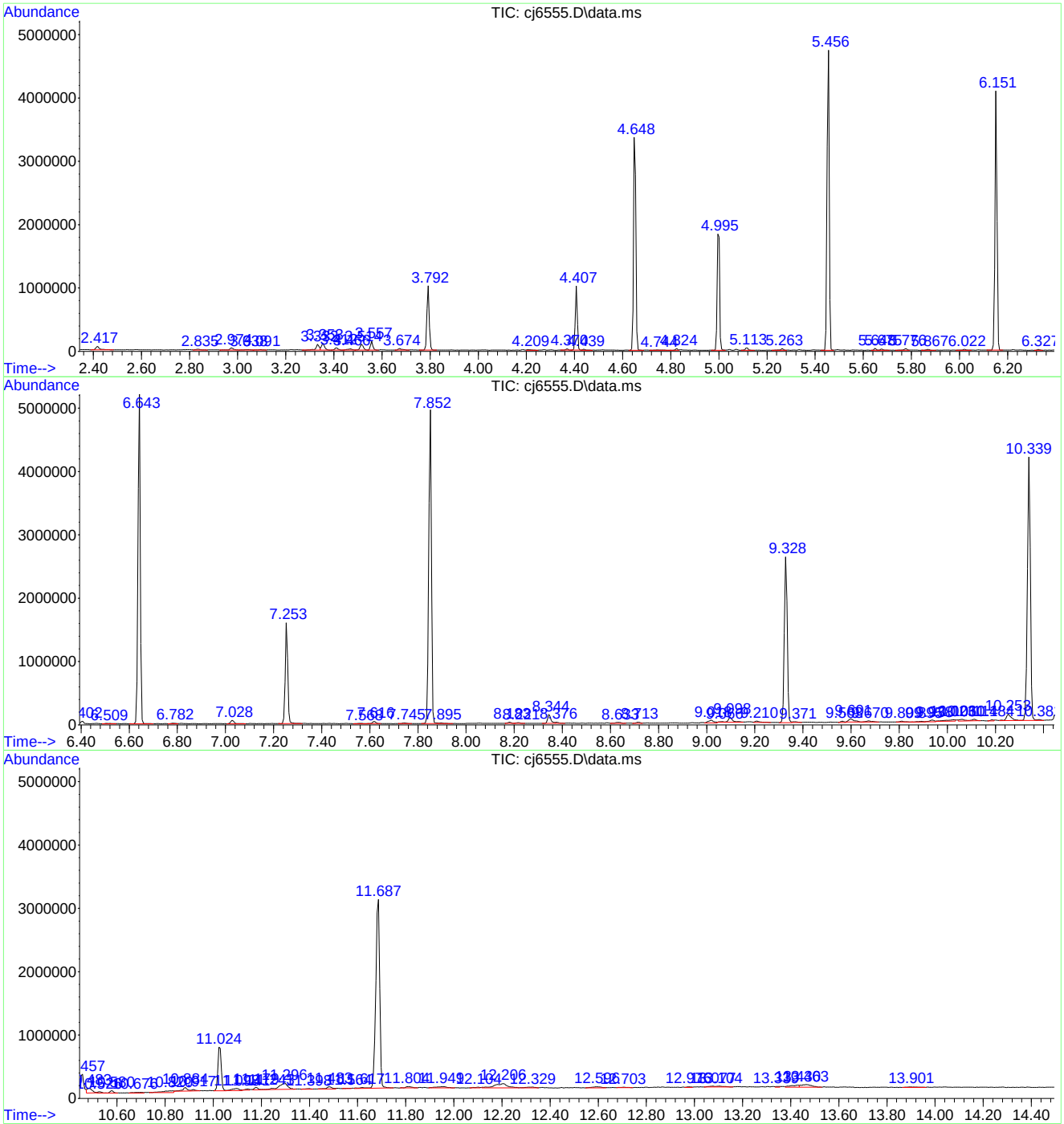


Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6555.D
Acq On : 10 May 2024 12:26 pm
Operator : karimam
Sample : jd87833-17
Misc : op54467,ecj298,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

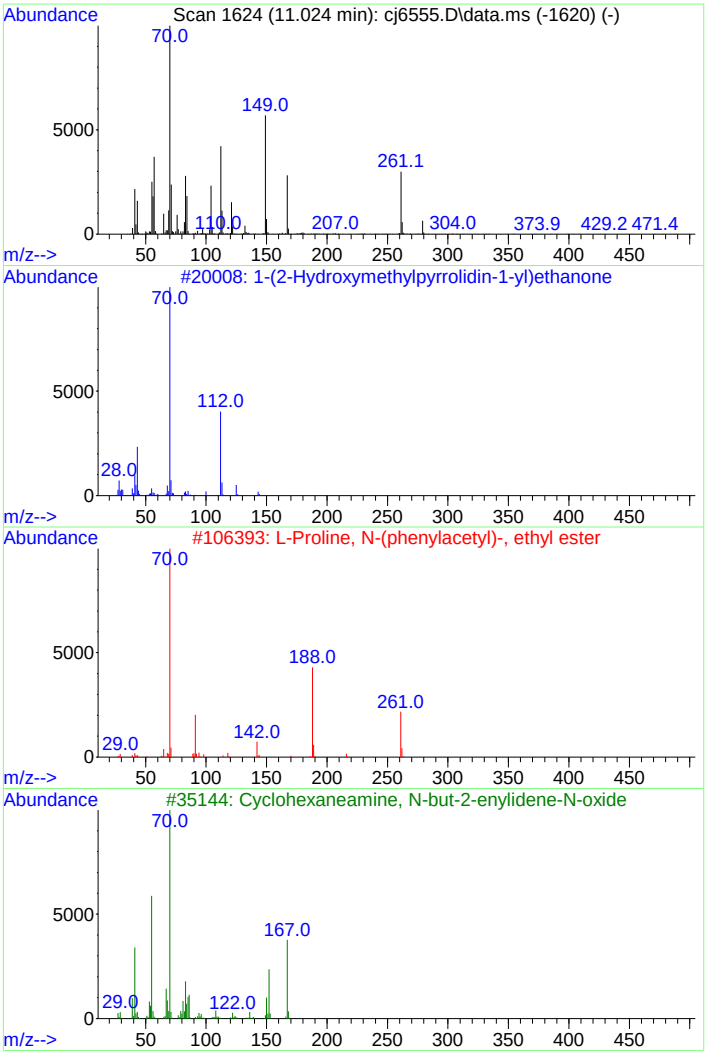
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

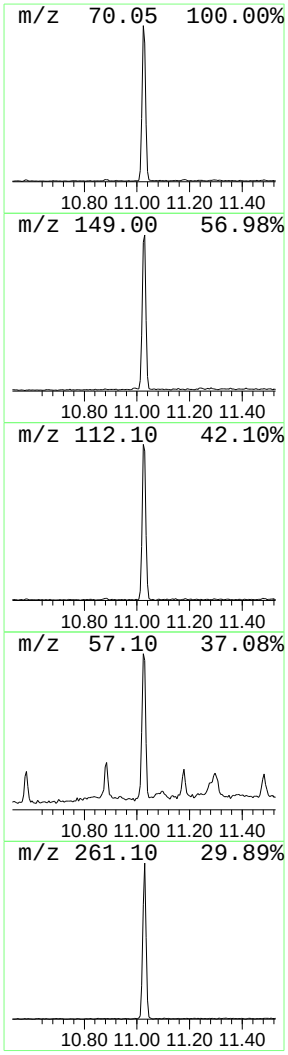
****

Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.024	7.78 ppm	652853	Perylene-d12	11.687

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(2-Hydroxymethylpyrrolidin-1-y...	143	C7H13NO2	1000192-83-2	32
2	L-Proline, N-(phenylacetyl)-, et...	261	C15H19NO3	1000346-18-9	27
3	Cyclohexaneamine, N-but-2-enylid...	167	C10H17NO	068048-01-1	16
4	1,2-Benzenedicarboxylic acid, mo...	278	C16H22O4	004376-20-9	14
5	Phthalic acid, 3,5-difluoropheny...	418	C24H28F2O4	1000315-53-1	14





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6555.D
Acq On : 10 May 2024 12:26 pm
Operator : karimam
Sample : jd87833-17
Misc : op54467,ecj298,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown	11.024	7.8	ppm	652853	11	11.687	3358210	40.0

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\nerirose\em8483\
Data File : m195578.D
Acq On : 14 May 2024 12:23 pm
Operator : kaleigh
Sample : jd87833-17 Inst : MSM
Misc : op54618,em8483,1000,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 14 18:06:59 2024
Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\MM8478.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Tue May 14 18:01:32 2024
Response via : Initial Calibration

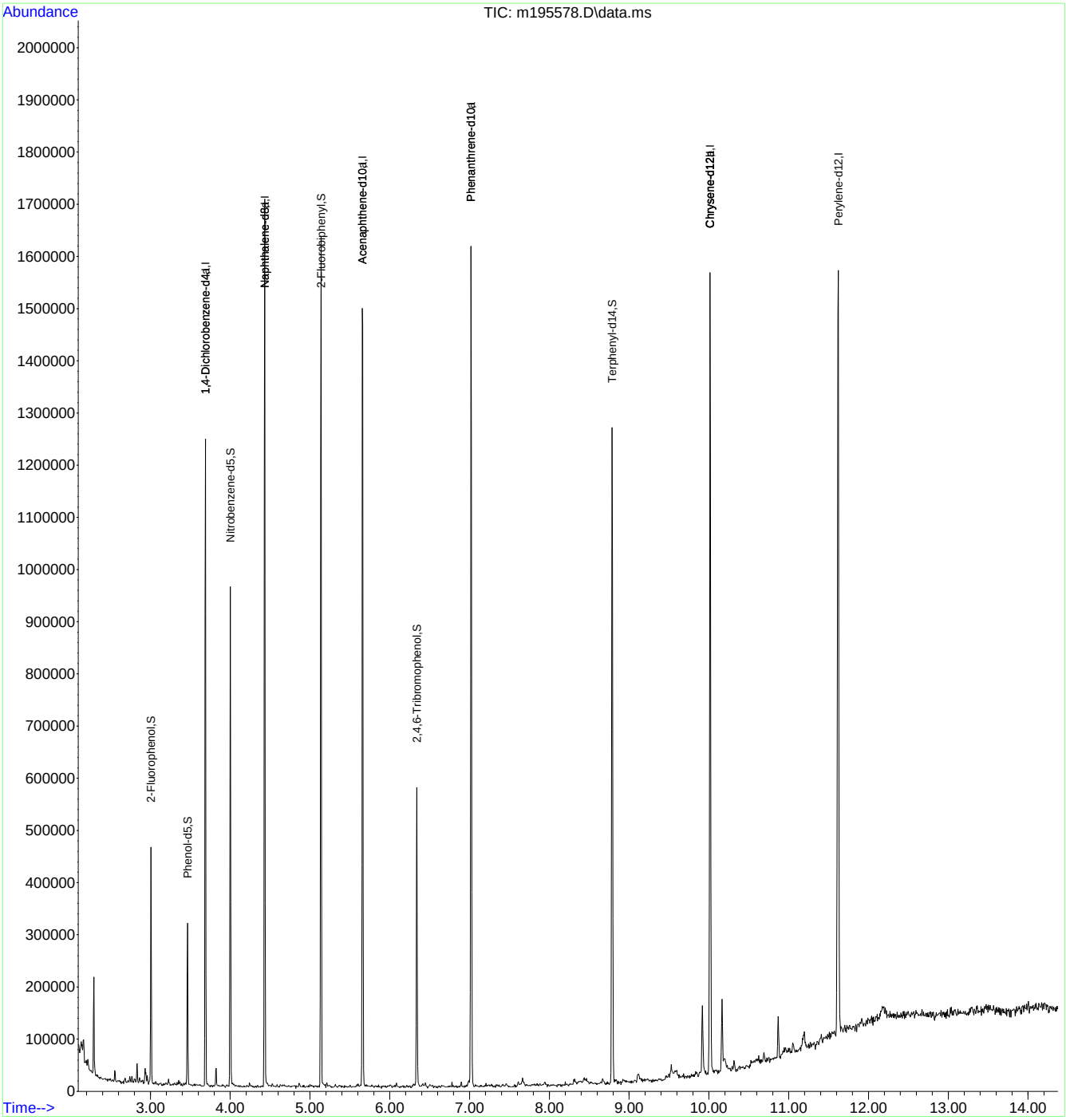
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.691	152	130260	40.00	ppm	0.00
24) Naphthalene-d8	4.434	136	522071	40.00	ppm	0.00
46) Acenaphthene-d10	5.657	164	281784	40.00	ppm	0.00
69) Phenanthrene-d10	7.019	188	563768	40.00	ppm	0.00
84) Chrysene-d12	10.015	240	512881	40.00	ppm	0.00
93) Perylene-d12	11.623	264	589730	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	3.691	152	130260	40.00	ppm	0.00
105) Acenaphthene-d10a	5.657	164	281784	40.00	ppm	0.00
107) Chrysene-d12a	10.015	240	512881	40.00	ppm	0.00
109) Phenanthrene-d10a	7.019	188	563768	40.00	ppm	0.00
111) Naphthalene-d8a	4.434	136	522071	40.00	ppm	0.00
113) Chrysene-d12b	10.015	240	512881	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.007	112	68467	19.74	ppm	0.00
Spiked Amount 50.000			Recovery = 39.48%			
8) Phenol-d5	3.467	99	65778	12.98	ppm	0.00
Spiked Amount 50.000			Recovery = 25.96%			
25) Nitrobenzene-d5	4.001	82	195814	37.09	ppm	0.00
Spiked Amount 50.000			Recovery = 74.18%			
51) 2-Fluorobiphenyl	5.139	172	371676	41.70	ppm	0.00
Spiked Amount 50.000			Recovery = 83.40%			
74) 2,4,6-Tribromophenol	6.340	330	49260	41.38	ppm	0.00
Spiked Amount 50.000			Recovery = 82.76%			
87) Terphenyl-d14	8.786	244	378506	33.26	ppm	0.00
Spiked Amount 50.000			Recovery = 66.52%			
108) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\nerirose\em8483\
Data File : m195578.D
Acq On : 14 May 2024 12:23 pm
Operator : kaleigh
Sample : jd87833-17 Inst : MSM
Misc : op54618,em8483,1000,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 14 18:06:59 2024
Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\MM8478.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Tue May 14 18:01:32 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6516.D
Acq On : 09 May 2024 05:22 pm
Operator : rocquans
Sample : op54460-mb1 Inst : GCMSCJ
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 10 15:01:08 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

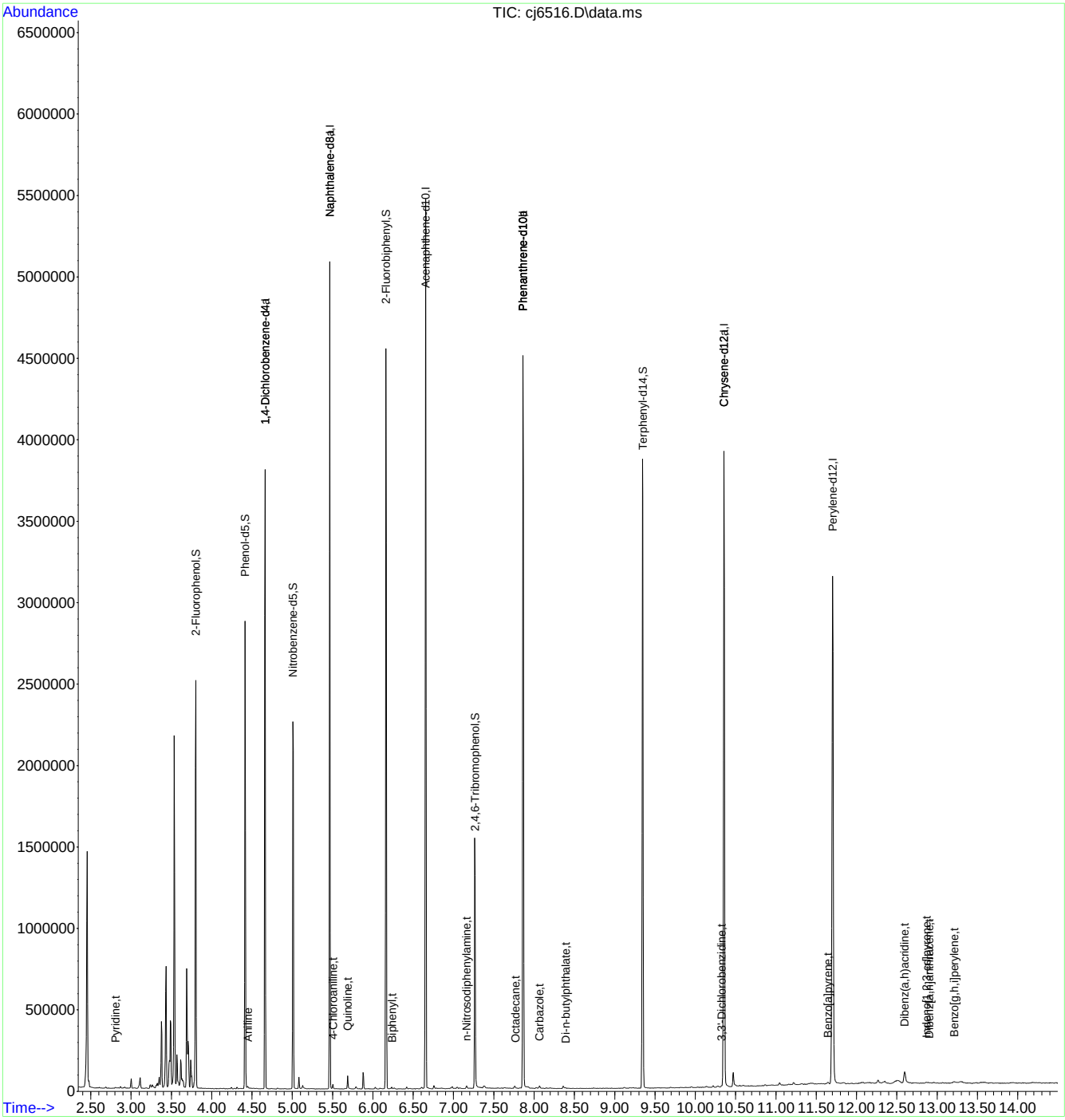
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.664	152	406045	40.00	ppm	0.00
24) Naphthalene-d8	5.466	136	1462855	40.00	ppm	0.00
46) Acenaphthene-d10	6.654	164	806560	40.00	ppm	0.00
69) Phenanthrene-d10	7.863	188	1445161	40.00	ppm	-0.01
84) Chrysene-d12	10.355	240	1127868	40.00	ppm	-0.02
93) Perylene-d12	11.703	264	1169922	40.00	ppm	-0.02
103) 1,4-Dichlorobenzene-d4a	4.664	152	406045	40.00	ppm	0.00
105) Phenanthrene-d10a	7.863	188	1445161	40.00	ppm	0.00
107) Naphthalene-d8a	5.466	136	1462855	40.00	ppm	0.00
109) Phenanthrene-d10b	7.863	188	1445161	40.00	ppm	# 0.00
112) Chrysene-d12a	10.355	240	1127868	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.803	112	437322	37.47	ppm	0.00
Spiked Amount 50.000			Recovery =	74.94%		
8) Phenol-d5	4.413	99	587942	39.06	ppm	0.00
Spiked Amount 50.000			Recovery =	78.12%		
25) Nitrobenzene-d5	5.006	82	555457	37.08	ppm	0.00
Spiked Amount 50.000			Recovery =	74.16%		
51) 2-Fluorobiphenyl	6.162	172	1005012	39.60	ppm	0.00
Spiked Amount 50.000			Recovery =	79.20%		
74) 2,4,6-Tribromophenol	7.269	330	125299	39.54	ppm	0.00
Spiked Amount 50.000			Recovery =	79.08%		
87) Terphenyl-d14	9.349	244	1182307	42.43	ppm	0.00
Spiked Amount 50.000			Recovery =	84.86%		
110) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
3) Pyridine	2.808	79	3273	0.2293	ppm	86
10) Aniline	4.450	93	1431	0.0717	ppm #	52
27) Quinoline	5.686	129	17294	0.7657	ppm	94
39) 4-Chloroaniline	5.504	127	3893	0.2641	ppm	92
53) Biphenyl	6.237	154	2496	0.0901	ppm	87
71) n-Nitrosodiphenylamine	7.162	169	2636	0.1336	ppm	75
80) Carbazole	8.066	167	6093	0.1870	ppm	98
81) Di-n-butylphthalate	8.392	149	1482	0.0368	ppm	66
83) Octadecane	7.766	57	1474	0.0743	ppm	82
90) 3,3'-Dichlorobenzidine	10.323	252	1659	0.1322	ppm	94
97) Benzo[a]pyrene	11.644	252	3052	0.1043	ppm	95
98) Indeno[1,2,3-cd]pyrene	12.869	276	4522	0.1279	ppm	86
99) Dibenz(a,h)acridine	12.596	279	39152	1.6648	ppm	96
100) Dibenz[a,h]anthracene	12.901	278	2514	0.0890	ppm	66
102) Benzo[g,h,i]perylene	13.211	276	4666	0.1698	ppm	90

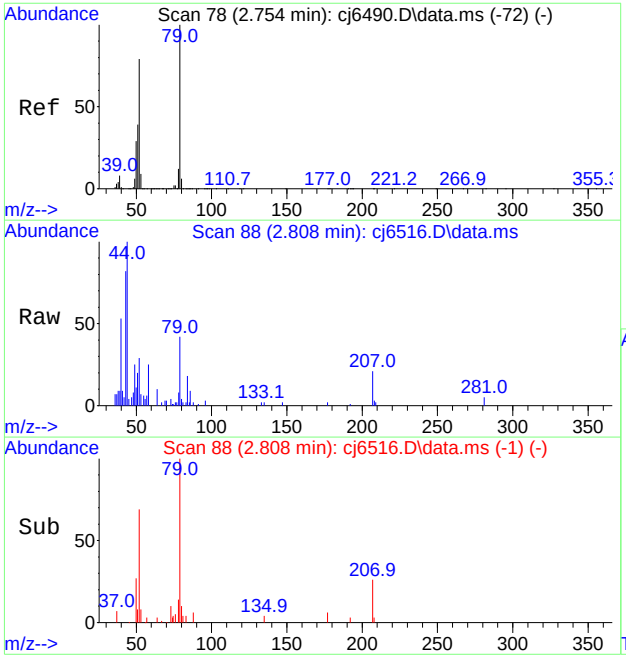
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6516.D
Acq On : 09 May 2024 05:22 pm
Operator : rocquans
Sample : op54460-mb1 Inst : GCMSCJ
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 10 15:01:08 2024
Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

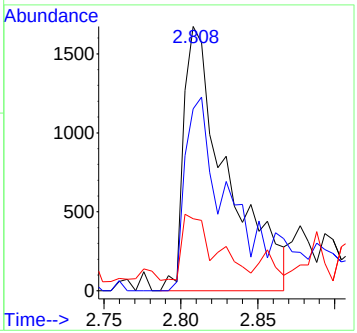


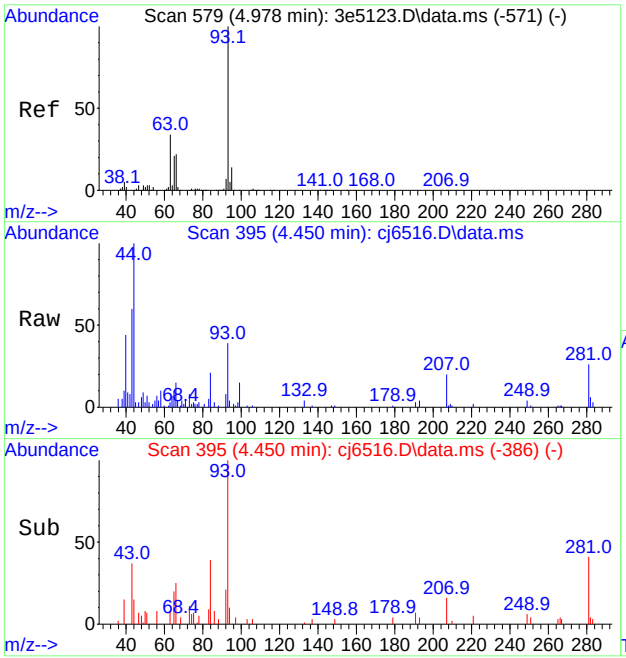


#3
Pyridine
Concen: 0.2293 ppm
RT: 2.808 min Scan# 88
Delta R.T. 0.054 min
Lab File: cj6516.D
Acq: 09 May 2024 05:22 pm

Tgt Ion: 79 Resp: 3273

Ion	Ratio	Lower	Upper
79	100		
52	64.2	48.6	108.6
50	24.4	0.0	58.9

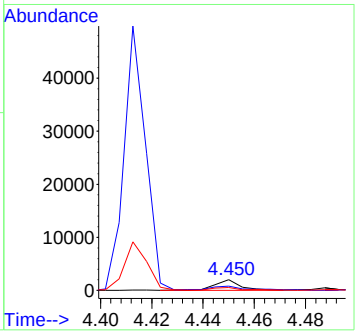


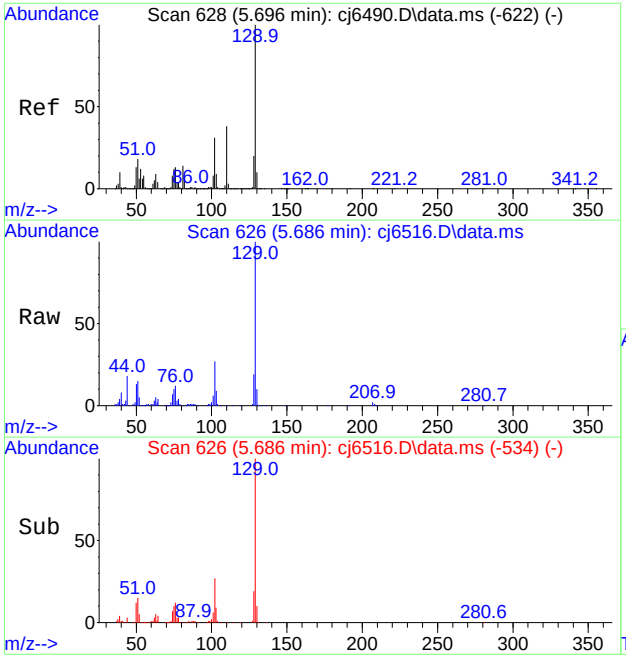


#10
Aniline
Concen: 0.0717 ppm
RT: 4.450 min Scan# 395
Delta R.T. 0.000 min
Lab File: cj6516.D
Acq: 09 May 2024 05:22 pm

Tgt Ion: 93 Resp: 1431

Ion	Ratio	Lower	Upper
93	100		
66	1.4	9.7	69.7#
65	10.7	0.0	51.1

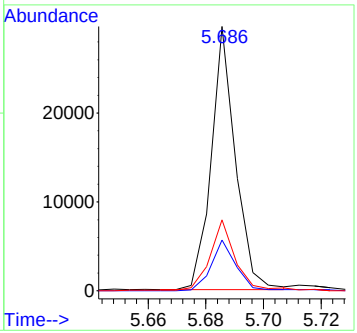


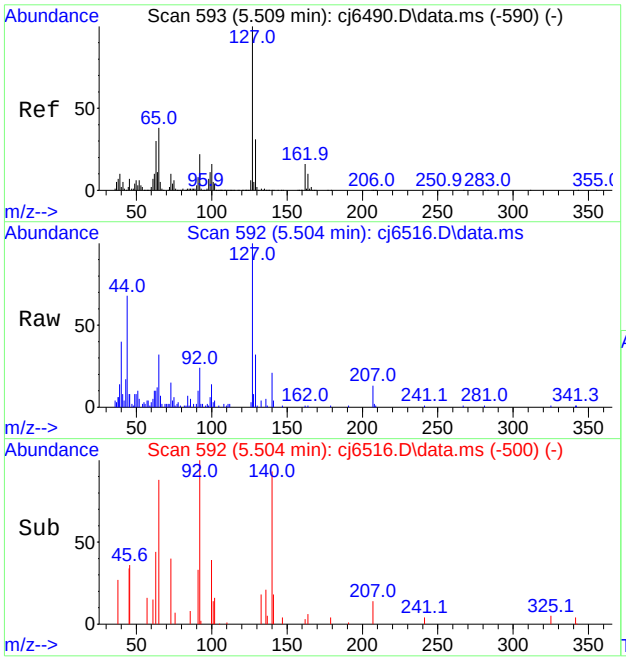


#27
Quinoline
Concen: 0.7657 ppm
RT: 5.686 min Scan# 626
Delta R.T. -0.010 min
Lab File: cj6516.D
Acq: 09 May 2024 05:22 pm

Tgt Ion:129 Resp: 17294

Ion	Ratio	Lower	Upper
129	100		
128	19.2	0.0	50.3
102	26.4	1.4	61.4

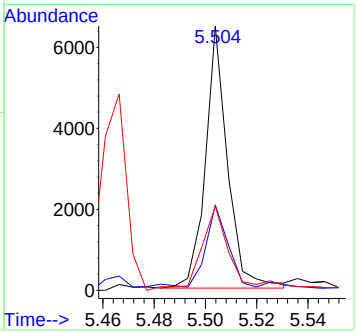


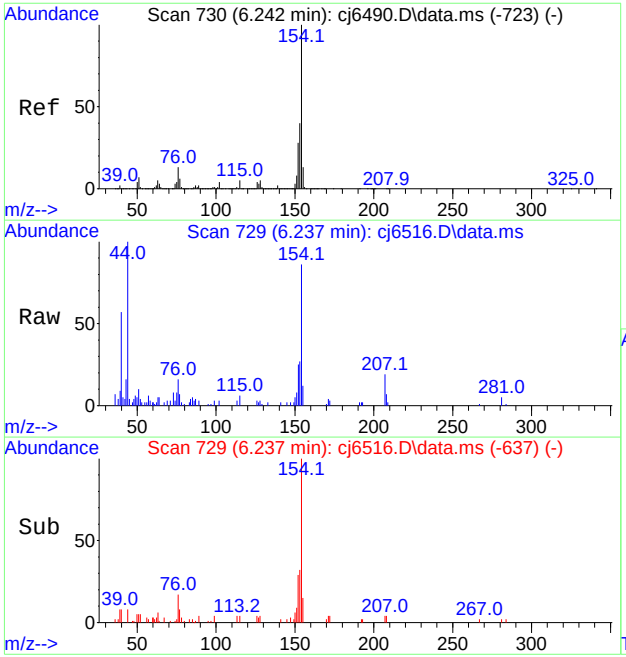


#39
4-Chloroaniline
Concen: 0.2641 ppm
RT: 5.504 min Scan# 592
Delta R.T. -0.005 min
Lab File: cj6516.D
Acq: 09 May 2024 05:22 pm

Tgt Ion:127 Resp: 3893

Ion	Ratio	Lower	Upper
127	100		
129	30.6	1.5	61.5
65	30.7	8.2	68.2

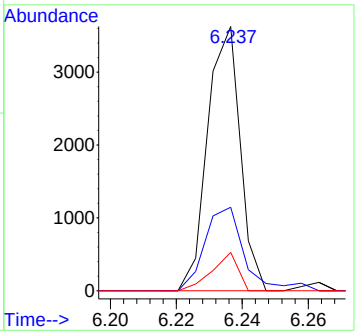


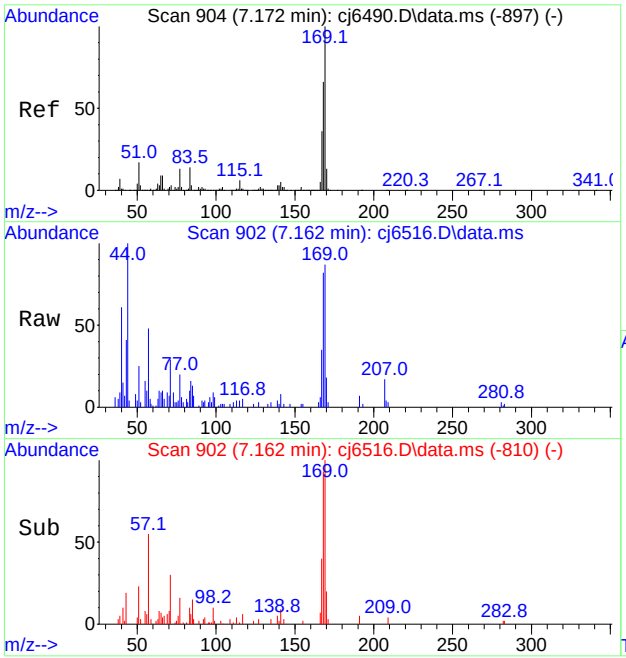


#53
Biphenyl
Concen: 0.0901 ppm
RT: 6.237 min Scan# 729
Delta R.T. -0.005 min
Lab File: cj6516.D
Acq: 09 May 2024 05:22 pm

Tgt Ion:154 Resp: 2496

Ion	Ratio	Lower	Upper
154	100		
153	30.7	10.5	70.5
155	14.6	0.0	42.8

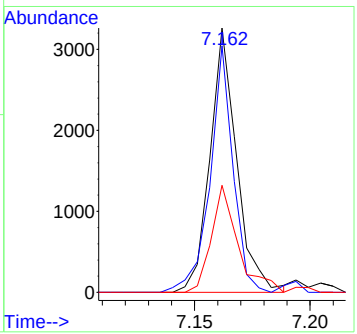


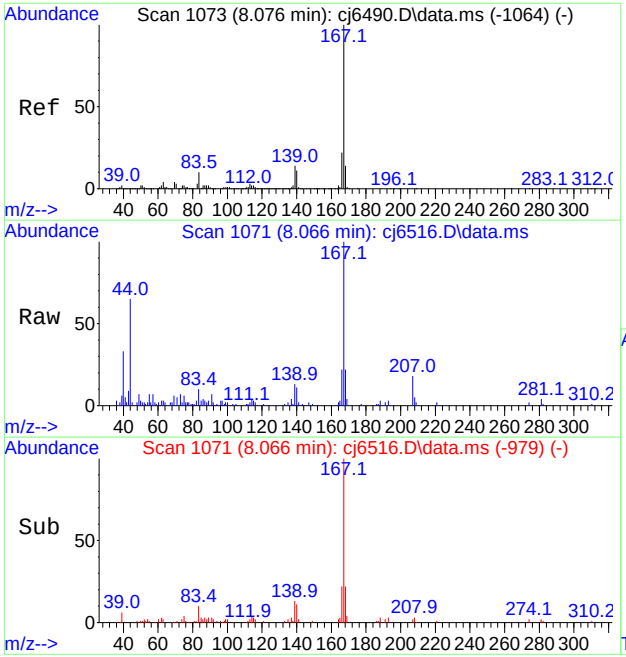


#71
n-Nitrosodiphenylamine
Concen: 0.1336 ppm
RT: 7.162 min Scan# 902
Delta R.T. -0.010 min
Lab File: cj6516.D
Acq: 09 May 2024 05:22 pm

Tgt Ion:169 Resp: 2636

Ion	Ratio	Lower	Upper
169	100		
168	93.2	36.1	96.1
167	41.0	5.7	65.7

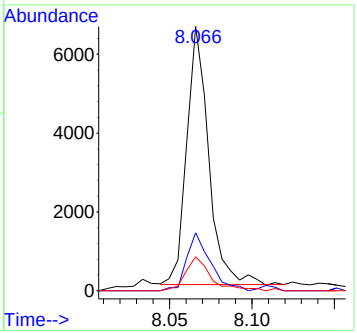


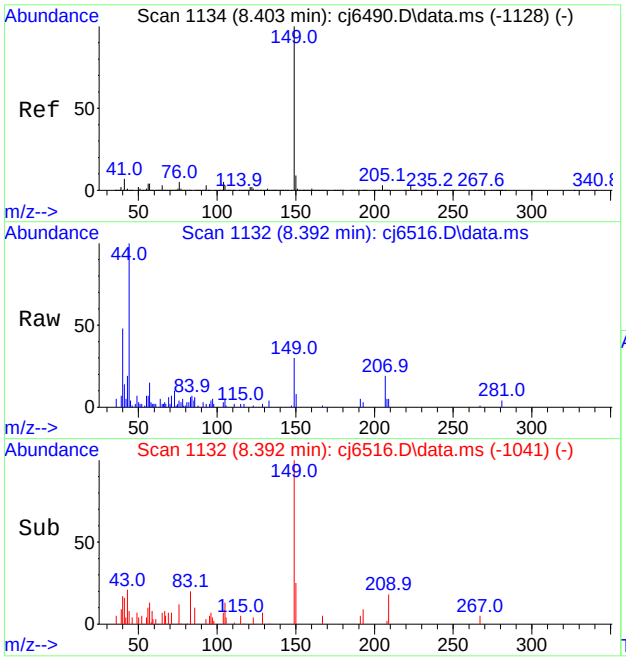


#80
Carbazole
Concen: 0.1870 ppm
RT: 8.066 min Scan# 1071
Delta R.T. -0.010 min
Lab File: cj6516.D
Acq: 09 May 2024 05:22 pm

Tgt Ion:167 Resp: 6093

Ion	Ratio	Lower	Upper
167	100		
166	22.5	0.0	51.7
139	13.2	0.0	43.8

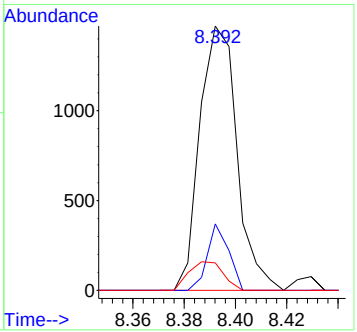


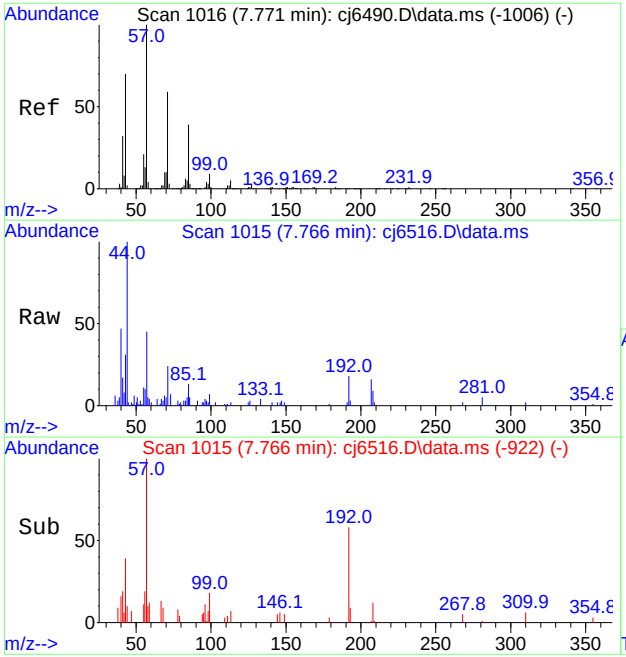


#81
Di-n-butylphthalate
Concen: 0.0368 ppm
RT: 8.392 min Scan# 1132
Delta R.T. -0.011 min
Lab File: cj6516.D
Acq: 09 May 2024 05:22 pm

Tgt Ion:149 Resp: 1482

Ion	Ratio	Lower	Upper
149	100		
150	25.1	0.0	39.3
104	10.5	0.0	35.2

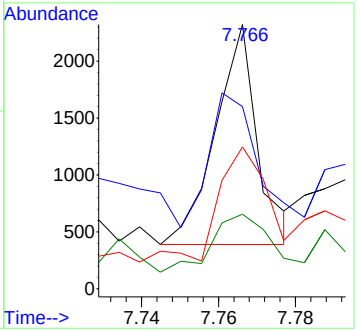


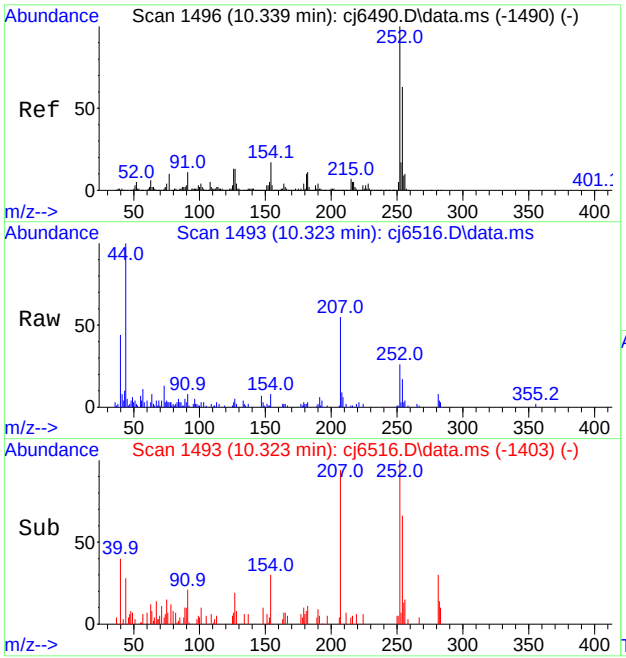


#83
Octadecane
Concen: 0.0743 ppm
RT: 7.766 min Scan# 1015
Delta R.T. -0.005 min
Lab File: cj6516.D
Acq: 09 May 2024 05:22 pm

Tgt Ion: 57 Resp: 1474

Ion	Ratio	Lower	Upper
57	100		
43	44.8	40.1	100.1
71	48.6	29.4	89.4
85	39.7	9.5	69.5

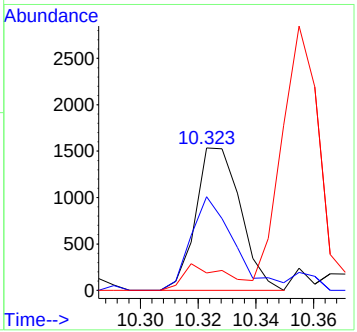


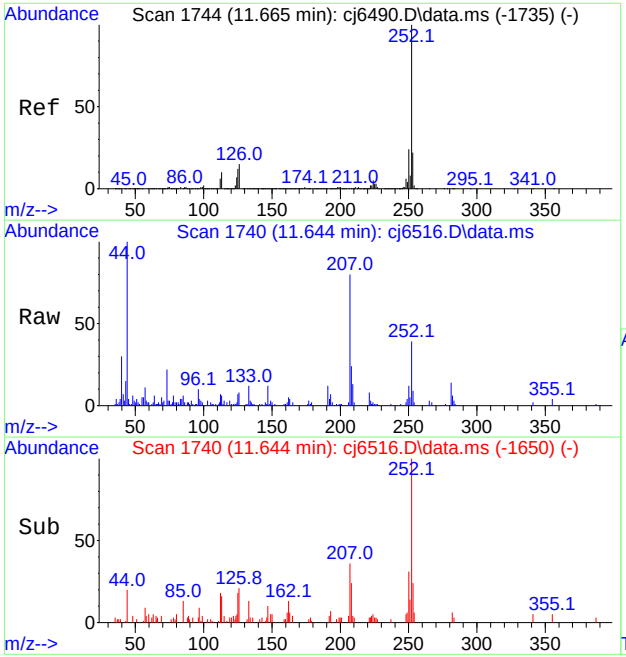


#90
3,3'-Dichlorobenzidine
Concen: 0.1322 ppm
RT: 10.323 min Scan# 1493
Delta R.T. -0.016 min
Lab File: cj6516.D
Acq: 09 May 2024 05:22 pm

Tgt Ion:252 Resp: 1659

Ion	Ratio	Lower	Upper
252	100		
254	63.0	32.8	92.8
126	0.0	0.0	43.2

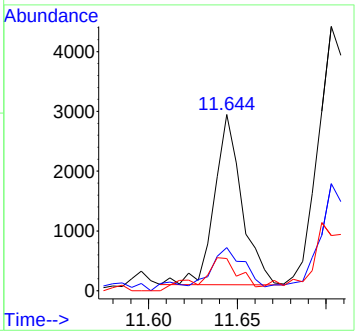


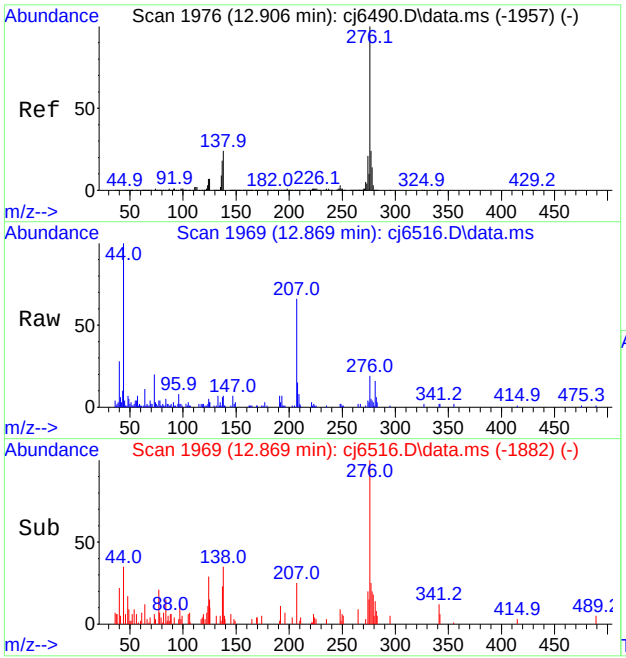


#97
Benzo[a]pyrene
Concen: 0.1043 ppm
RT: 11.644 min Scan# 1740
Delta R.T. -0.021 min
Lab File: cj6516.D
Acq: 09 May 2024 05:22 pm

Tgt Ion:252 Resp: 3052

Ion	Ratio	Lower	Upper
252	100		
253	21.9	0.0	51.9
125	17.8	0.0	42.1

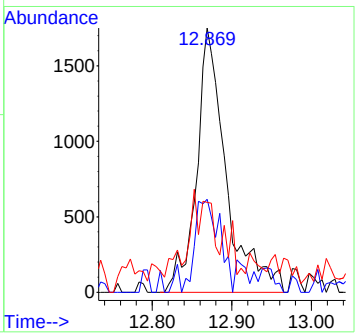


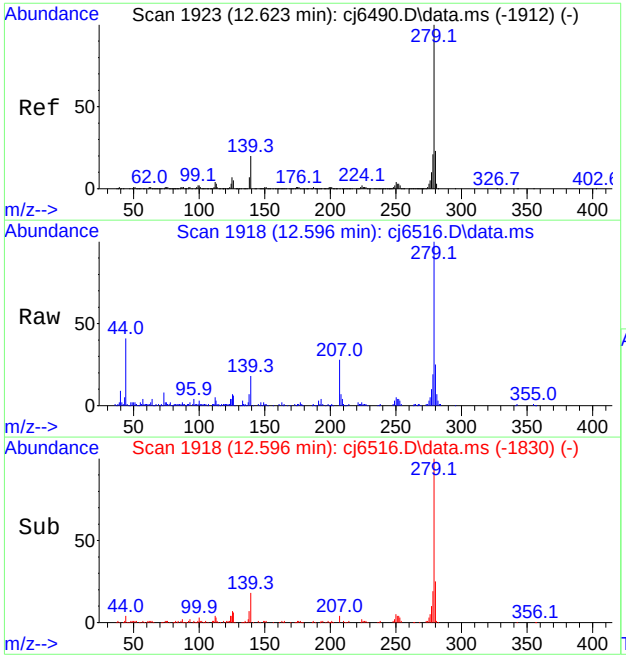


#98
Indeno[1,2,3-cd]pyrene
Concen: 0.1279 ppm
RT: 12.869 min Scan# 1969
Delta R.T. -0.037 min
Lab File: cj6516.D
Acq: 09 May 2024 05:22 pm

Tgt Ion:276 Resp: 4522

Ion	Ratio	Lower	Upper
276	100		
138	31.5	0.0	54.2
137	23.9	0.0	47.9

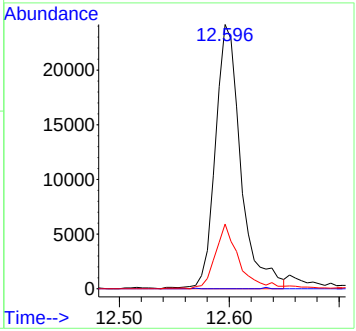


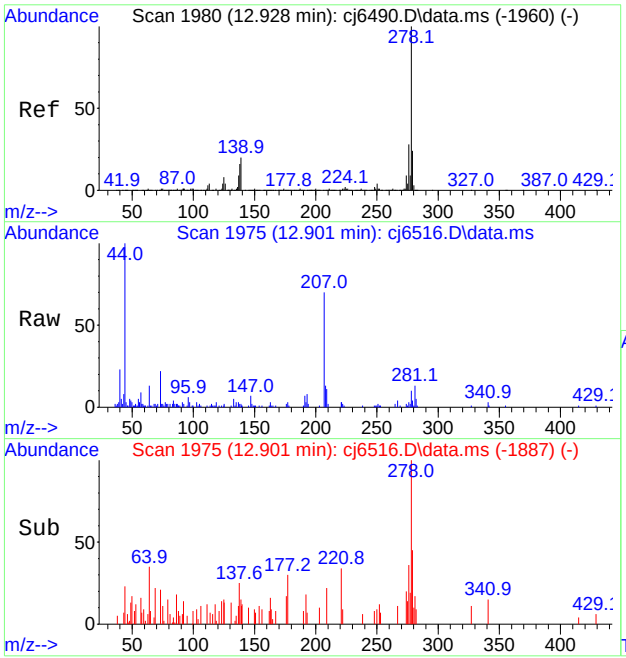


#99
Dibenz(a,h)acridine
Concen: 1.6648 ppm
RT: 12.596 min Scan# 1918
Delta R.T. -0.027 min
Lab File: cj6516.D
Acq: 09 May 2024 05:22 pm

Tgt Ion:279 Resp: 39152

Ion	Ratio	Lower	Upper
279	100		
140	0.0	0.0	30.0
280	24.5	0.0	52.7

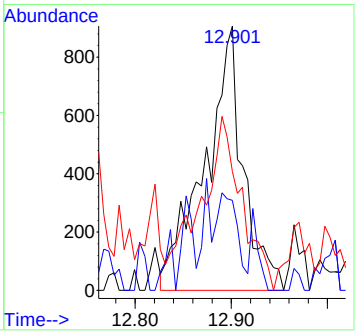


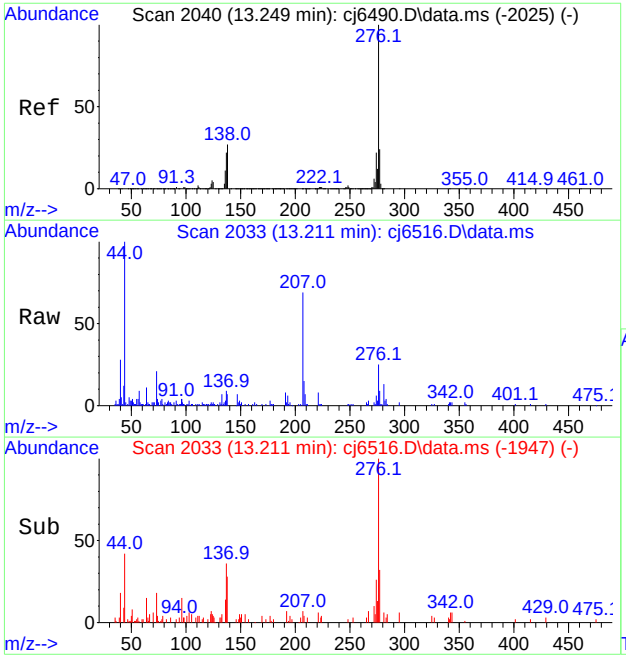


#100
Dibenz[a,h]anthracene
Concen: 0.0890 ppm
RT: 12.901 min Scan# 1975
Delta R.T. -0.027 min
Lab File: cj6516.D
Acq: 09 May 2024 05:22 pm

Tgt Ion:278 Resp: 2514

Ion	Ratio	Lower	Upper
278	100		
139	43.7	0.0	49.8
279	33.2	0.0	54.1

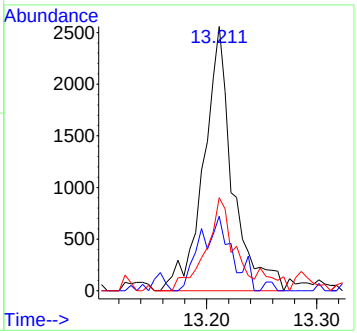




#102
Benzo[g,h,i]perylene
Concen: 0.1698 ppm
RT: 13.211 min Scan# 2033
Delta R.T. -0.038 min
Lab File: cj6516.D
Acq: 09 May 2024 05:22 pm

Tgt Ion:276 Resp: 4666

Ion	Ratio	Lower	Upper
276	100		
138	24.7	0.0	56.7
277	32.5	0.0	54.1



7.2.1

7

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6516.D
Acq On : 09 May 2024 05:22 pm
Operator : rocquans
Sample : op54460-mb1
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6516.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.247	354	357	360	rVB2	9990	8464	0.23%	0.026%
2	4.311	366	369	373	rVV	9795	7264	0.20%	0.023%
3	4.413	383	388	393	rVV	2871830	1693992	46.81%	5.258%
4	4.445	393	394	405	rVV	14948	22039	0.61%	0.068%
5	4.664	430	435	442	rVB	3803536	2457379	67.91%	7.627%
6	4.739	446	449	461	rVB	4497	11224	0.31%	0.035%
7	4.814	461	463	472	rBV2	6641	10609	0.29%	0.033%
8	5.006	492	499	507	rBV	2254715	1587066	43.86%	4.926%
9	5.081	510	513	518	rVV	72041	45714	1.26%	0.142%
10	5.129	518	522	532	rVB	20510	21962	0.61%	0.068%
11	5.466	579	585	589	rBV	5079283	3104663	85.79%	9.636%
12	5.504	589	592	596	rVB2	26915	17328	0.48%	0.054%
13	5.686	622	626	637	rVB	80938	54747	1.51%	0.170%
14	5.793	639	646	650	rBV2	13127	14124	0.39%	0.044%
15	5.878	656	662	666	rBV	101271	69401	1.92%	0.215%
16	6.028	684	690	695	rVB3	11213	11673	0.32%	0.036%
17	6.087	695	701	708	rBV8	5976	10270	0.28%	0.032%
18	6.162	708	715	722	rVB	4545178	3014838	83.31%	9.357%
19	6.237	722	729	731	rBV4	9435	9589	0.26%	0.030%
20	6.263	731	734	741	rVB7	8992	11887	0.33%	0.037%
21	6.418	757	763	766	rBV2	11618	9841	0.27%	0.031%
22	6.541	783	786	792	rBV6	3981	7472	0.21%	0.023%
23	6.606	792	798	801	rBV5	10038	12611	0.35%	0.039%
24	6.654	801	807	823	rVB	5464032	3535503	97.70%	10.973%
25	6.755	823	826	830	rBV3	19374	18702	0.52%	0.058%
26	6.846	840	843	854	rVB3	3812	7469	0.21%	0.023%
27	6.985	862	869	872	rBV3	14803	19143	0.53%	0.059%
28	7.050	876	881	884	rVB3	8372	9495	0.26%	0.029%
29	7.076	884	886	893	rVB8	5034	6785	0.19%	0.021%
30	7.162	896	902	907	rBV4	17499	17423	0.48%	0.054%
31	7.263	916	921	933	rBV	1536694	1201533	33.20%	3.729%
32	7.376	939	942	950	rVB4	14188	20731	0.57%	0.064%
33	7.638	986	991	1000	rBV8	6191	11555	0.32%	0.036%
34	7.761	1007	1014	1022	rBV3	14479	22341	0.62%	0.069%
35	7.863	1028	1033	1040	rVV	4499211	3618838	100.00%	11.232%
36	7.911	1040	1042	1050	rVB8	10422	18877	0.52%	0.059%
37	8.066	1066	1071	1077	rVB3	15931	16845	0.47%	0.052%
38	8.157	1083	1088	1091	rBV6	4928	7434	0.21%	0.023%
39	8.360	1120	1126	1130	rVV4	15585	17489	0.48%	0.054%
40	8.809	1207	1210	1216	rVB8	3820	7576	0.21%	0.024%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6516.D
Acq On : 09 May 2024 05:22 pm
Operator : rocquans
Sample : op54460-mb1
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.114	1262	1267	1277	rBV8	6322	11867	0.33%	0.037%
42	9.344	1305	1310	1322	rBV	3863971	3435309	94.93%	10.662%
43	9.692	1372	1375	1379	rBV6	4728	6607	0.18%	0.021%
44	9.820	1395	1399	1402	rBV6	4881	8355	0.23%	0.026%
45	9.884	1405	1411	1413	rVV7	4714	7079	0.20%	0.022%
46	9.954	1421	1424	1428	rVV6	7352	9405	0.26%	0.029%
47	10.136	1451	1458	1463	rVV10	7593	13272	0.37%	0.041%
48	10.221	1470	1474	1478	rBV7	11506	11014	0.30%	0.034%
49	10.275	1478	1484	1490	rBV9	7631	13480	0.37%	0.042%
50	10.355	1490	1499	1512	rVV	3904517	3373647	93.22%	10.471%
51	10.473	1516	1521	1529	rVV	88510	107027	2.96%	0.332%
52	10.553	1532	1536	1539	rVV6	9714	13054	0.36%	0.041%
53	10.596	1539	1544	1551	rVV10	9052	20380	0.56%	0.063%
54	10.660	1551	1556	1559	rVV7	5651	9204	0.25%	0.029%
55	10.788	1579	1580	1586	rVV6	4423	6971	0.19%	0.022%
56	10.869	1591	1595	1598	rVV6	9058	13023	0.36%	0.040%
57	10.917	1598	1604	1606	rVV7	5993	12386	0.34%	0.038%
58	10.949	1606	1610	1612	rVV5	7465	11198	0.31%	0.035%
59	11.045	1617	1628	1634	rVV8	19689	40434	1.12%	0.125%
60	11.082	1634	1635	1638	rVV3	6529	6447	0.18%	0.020%
61	11.163	1644	1650	1652	rVV5	10579	17936	0.50%	0.056%
62	11.184	1652	1654	1655	rVV2	8926	6713	0.19%	0.021%
63	11.222	1657	1661	1667	rVV6	19270	34491	0.95%	0.107%
64	11.318	1671	1679	1684	rVV10	10378	31790	0.88%	0.099%
65	11.355	1684	1686	1688	rVV3	8707	8875	0.25%	0.028%
66	11.409	1688	1696	1697	rVV8	11082	22508	0.62%	0.070%
67	11.441	1697	1702	1710	rVV8	12532	43116	1.19%	0.134%
68	11.489	1710	1711	1714	rVV3	8608	9434	0.26%	0.029%
69	11.537	1714	1720	1722	rVV7	8907	19187	0.53%	0.060%
70	11.558	1722	1724	1728	rVV5	8880	14542	0.40%	0.045%
71	11.585	1728	1729	1733	rVV4	7656	10429	0.29%	0.032%
72	11.644	1733	1740	1744	rVV9	15729	33796	0.93%	0.105%
73	11.703	1744	1751	1769	rVV	3122409	3461284	95.65%	10.743%
74	11.831	1769	1775	1782	rVV	10603	34528	0.95%	0.107%
75	11.890	1782	1786	1790	rVV6	6176	11660	0.32%	0.036%
76	11.944	1790	1796	1800	rVV8	7068	15463	0.43%	0.048%
77	11.992	1800	1805	1809	rVV8	5207	11232	0.31%	0.035%
78	12.029	1809	1812	1814	rVV4	6599	8102	0.22%	0.025%
79	12.083	1814	1822	1825	rVV9	9978	26874	0.74%	0.083%
80	12.141	1825	1833	1836	rVV9	8088	23701	0.65%	0.074%
81	12.163	1836	1837	1840	rVV3	9855	8802	0.24%	0.027%
82	12.200	1840	1844	1849	rVV8	6349	13481	0.37%	0.042%
83	12.270	1849	1857	1860	rVV9	21638	38258	1.06%	0.119%
84	12.350	1864	1872	1878	rVV9	13731	32307	0.89%	0.100%
85	12.500	1885	1900	1911	rBV3	21002	94714	2.62%	0.294%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6516.D
Acq On : 09 May 2024 05:22 pm
Operator : rocquans
Sample : op54460-mb1
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.596	1911	1918	1930	rVV2	68918	115218	3.18%	0.358%
87	12.714	1938	1940	1942	rVV3	6464	7631	0.21%	0.024%
88	12.741	1942	1945	1948	rVV5	6383	9457	0.26%	0.029%
89	12.869	1964	1969	1972	rVV7	8264	16167	0.45%	0.050%
90	12.890	1972	1973	1976	rVV3	7698	6868	0.19%	0.021%
91	12.960	1983	1986	1991	rVV7	6605	11079	0.31%	0.034%
92	13.072	2003	2007	2010	rVB6	5614	7081	0.20%	0.022%
93	13.211	2024	2033	2038	rBV8	11282	27927	0.77%	0.087%
94	13.302	2043	2050	2061	rVB8	11118	38275	1.06%	0.119%
95	13.489	2081	2085	2087	rVB5	5545	6559	0.18%	0.020%
96	13.671	2116	2119	2123	rVB5	4972	7845	0.22%	0.024%
97	13.912	2159	2164	2166	rBV6	5245	6748	0.19%	0.021%
98	13.939	2166	2169	2175	rVB8	4040	7045	0.19%	0.022%
99	14.179	2206	2214	2215	rBV8	5754	7636	0.21%	0.024%
100	14.265	2229	2230	2237	rVB7	5412	8051	0.22%	0.025%

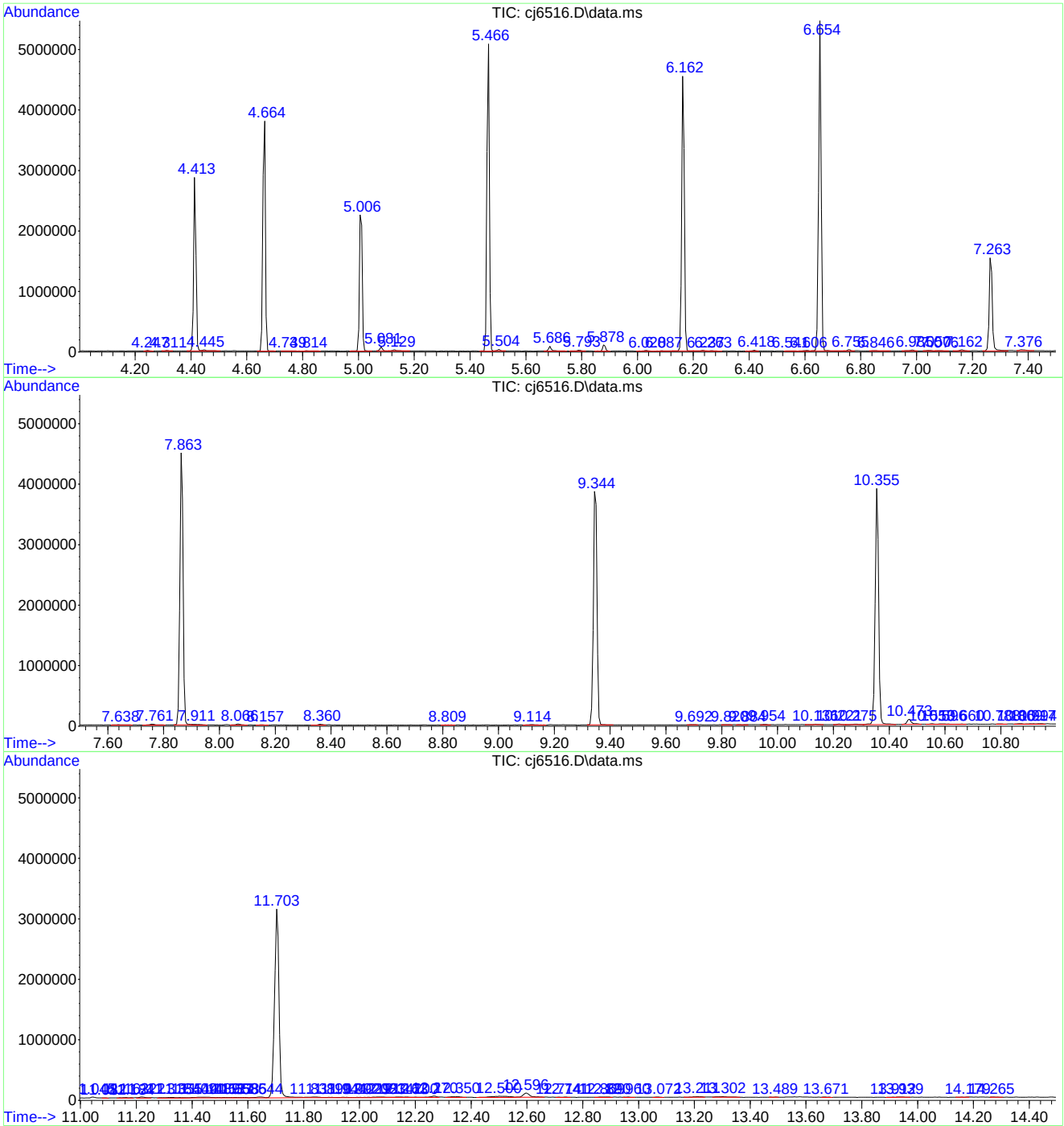
Sum of corrected areas: 32218865

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6516.D
Acq On : 09 May 2024 05:22 pm
Operator : rocquans
Sample : op54460-mb1
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Mayo\ecj297\
Data File : cj6516.D
Acq On : 09 May 2024 05:22 pm
Operator : rocquans
Sample : op54460-mb1
Misc : op54460,ecj297,30.0,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

Manual Integrations APPROVED
(compounds with "m" flag)
Jon Kreigmor Mamanta
05/15/24 01:32

Quantitation Report (LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6550.D
Acq On : 10 May 2024 10:50 am
Operator : karimam
Sample : op54467b-mb1 Inst : GCMSCJ
Misc : op54467b,ecj298,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 10 16:36:32 2024
Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

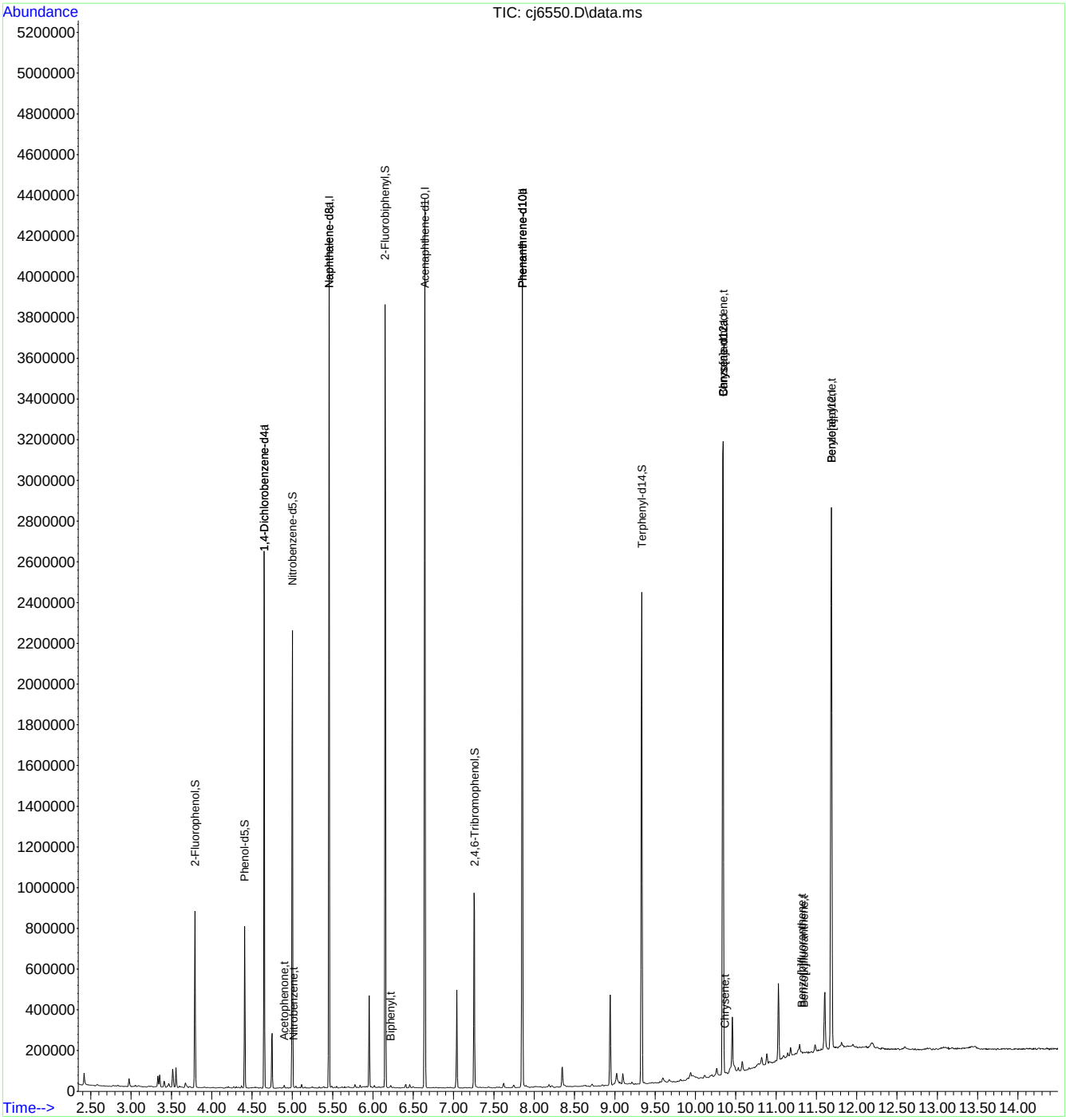
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.653	152	306406	40.00	ppm	-0.01
24) Naphthalene-d8	5.455	136	1119253	40.00	ppm	-0.02
46) Acenaphthene-d10	6.643	164	658396	40.00	ppm	-0.02
69) Phenanthrene-d10	7.852	188	1238122	40.00	ppm	-0.02
84) Chrysene-d12	10.344	240	974687	40.00	ppm	-0.03
93) Perylene-d12	11.687	264	956983	40.00	ppm	-0.03
103) 1,4-Dichlorobenzene-d4a	4.653	152	306406	40.00	ppm	-0.01
105) Phenanthrene-d10a	7.852	188	1238122	40.00	ppm	-0.02
107) Naphthalene-d8a	5.455	136	1119253	40.00	ppm	-0.01
109) Phenanthrene-d10b	7.852	188	1238122	40.00	ppm	-0.02
112) Chrysene-d12a	10.344	240	974687	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.792	112	149221	16.94	ppm	0.00
Spiked Amount 50.000			Recovery = 33.88%			
8) Phenol-d5	4.407	99	145709	12.83	ppm	-0.01
Spiked Amount 50.000			Recovery = 25.66%			
25) Nitrobenzene-d5	5.001	82	500844	43.70	ppm	-0.01
Spiked Amount 50.000			Recovery = 87.40%			
51) 2-Fluorobiphenyl	6.151	172	857238	41.38	ppm	-0.02
Spiked Amount 50.000			Recovery = 82.76%			
74) 2,4,6-Tribromophenol	7.258	330	82026	30.22	ppm	-0.02
Spiked Amount 50.000			Recovery = 60.44%			
87) Terphenyl-d14	9.333	244	665952	27.65	ppm	-0.02
Spiked Amount 50.000			Recovery = 55.30%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
18) Acetophenone	4.899	105	2702	0.1918	ppm #	71
26) Nitrobenzene	5.011	77	3045	0.2590	ppm	88
53) Biphenyl	6.220	154	2327	0.1029	ppm	98
89) Benzo[a]anthracene	10.344	228	4327	0.1381	ppm	69
91) Chrysene	10.365	228	1159	0.0401	ppm	98
95) Benzo[b]fluoranthene	11.318	252	1833	0.0634	ppm	67
96) Benzo[k]fluoranthene	11.344	252	1067m	0.0410	ppm	
97) Benzo[a]pyrene	11.687	252	4196	0.1753	ppm	84

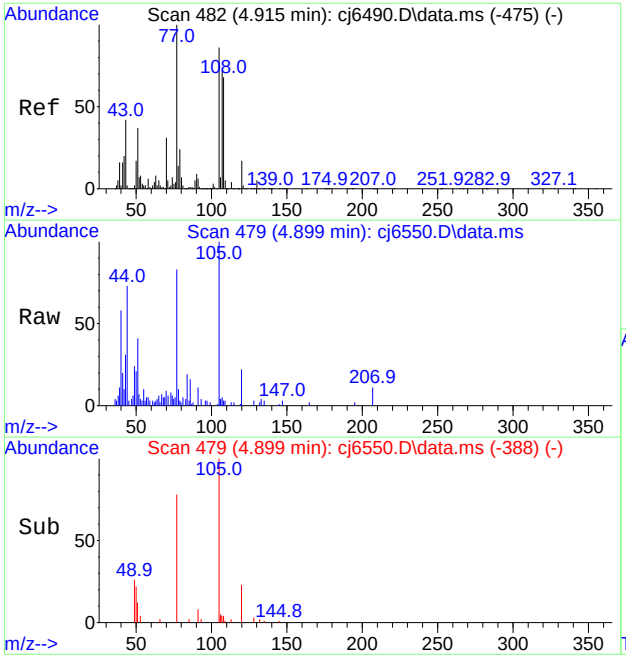
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6550.D
Acq On : 10 May 2024 10:50 am
Operator : karimam
Sample : op54467b-mb1 Inst : GCMSCJ
Misc : op54467b,ecj298,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 10 16:36:32 2024
Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

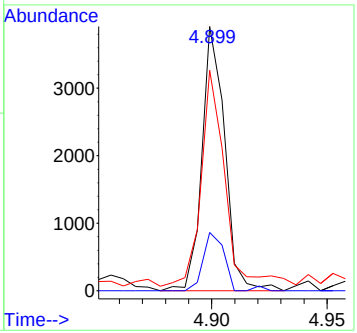


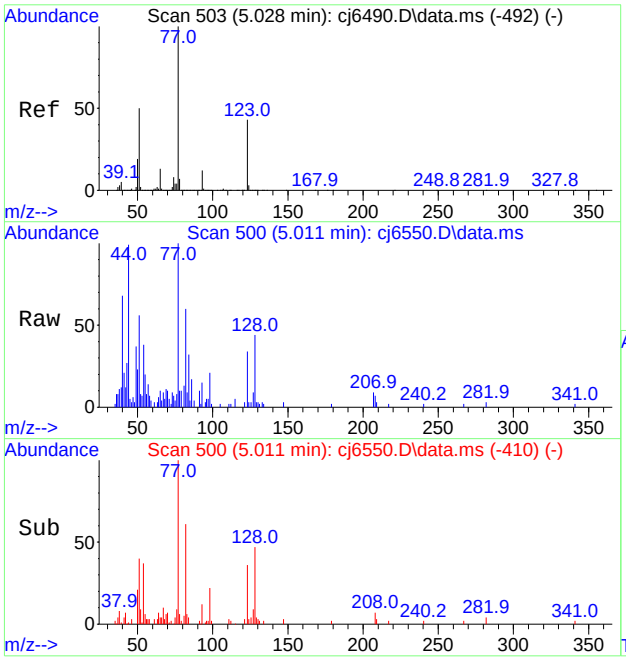


#18
Acetophenone
Concen: 0.1918 ppm
RT: 4.899 min Scan# 479
Delta R.T. -0.016 min
Lab File: cj6550.D
Acq: 10 May 2024 10:50 am

Tgt Ion:105 Resp: 2702

Ion	Ratio	Lower	Upper
105	100		
120	22.0	0.0	49.8
77	80.2	86.0	146.0#

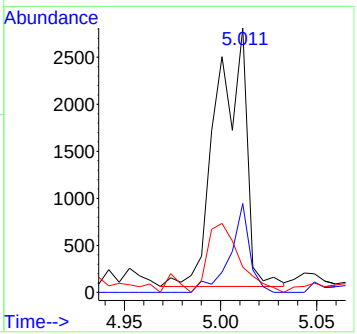


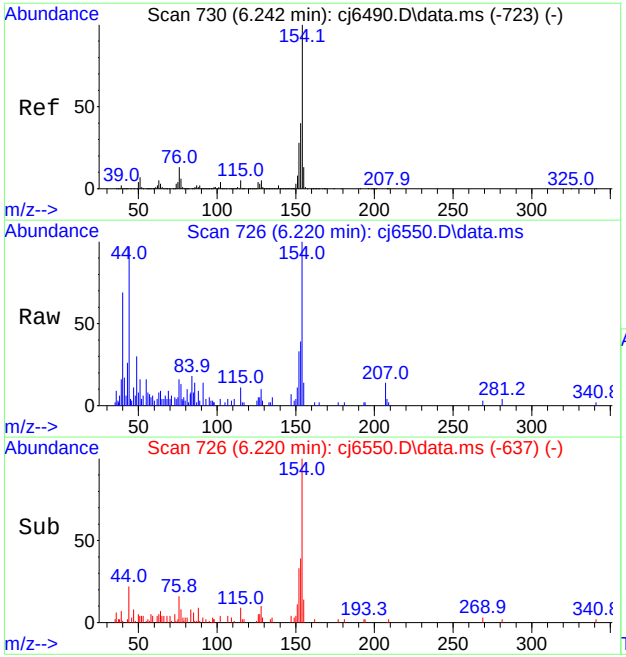


#26
Nitrobenzene
Concen: 0.2590 ppm
RT: 5.011 min Scan# 500
Delta R.T. -0.017 min
Lab File: cj6550.D
Acq: 10 May 2024 10:50 am

Tgt Ion: 77 Resp: 3045

Ion	Ratio	Lower	Upper
77	100		
123	34.6	13.0	73.0
65	9.8	0.0	43.5

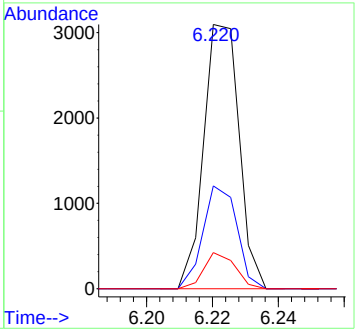


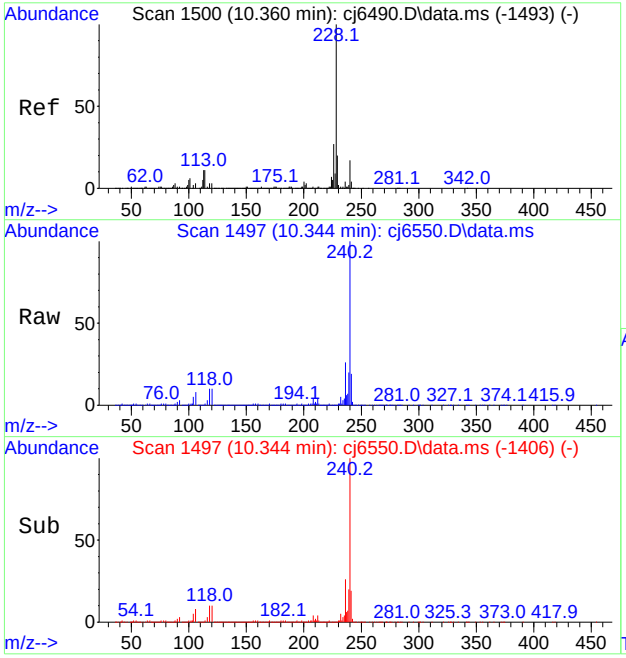


#53
Biphenyl
Concen: 0.1029 ppm
RT: 6.220 min Scan# 726
Delta R.T. -0.022 min
Lab File: cj6550.D
Acq: 10 May 2024 10:50 am

Tgt Ion:154 Resp: 2327

Ion	Ratio	Lower	Upper
154	100		
153	38.9	10.5	70.5
155	13.7	0.0	42.8

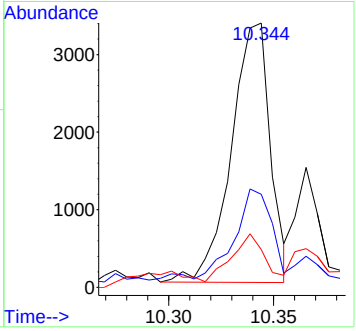


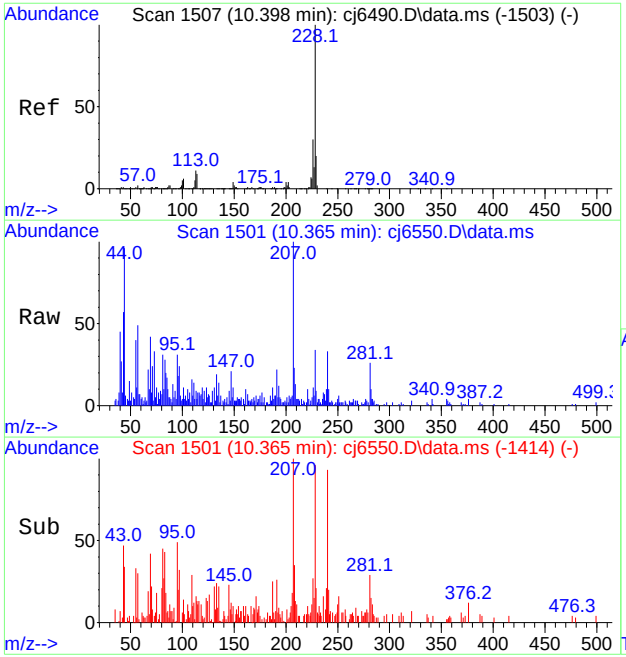


#89
Benzo[a]anthracene
Concen: 0.1381 ppm
RT: 10.344 min Scan# 1497
Delta R.T. -0.016 min
Lab File: cj6550.D
Acq: 10 May 2024 10:50 am

Tgt Ion:228 Resp: 4327

Ion	Ratio	Lower	Upper
228	100		
229	33.9	0.0	49.8
226	10.6	0.0	57.1

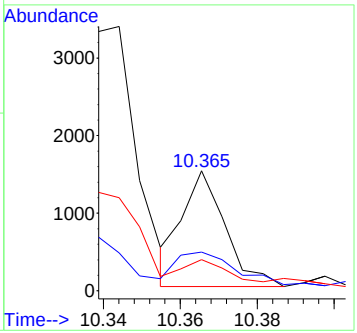


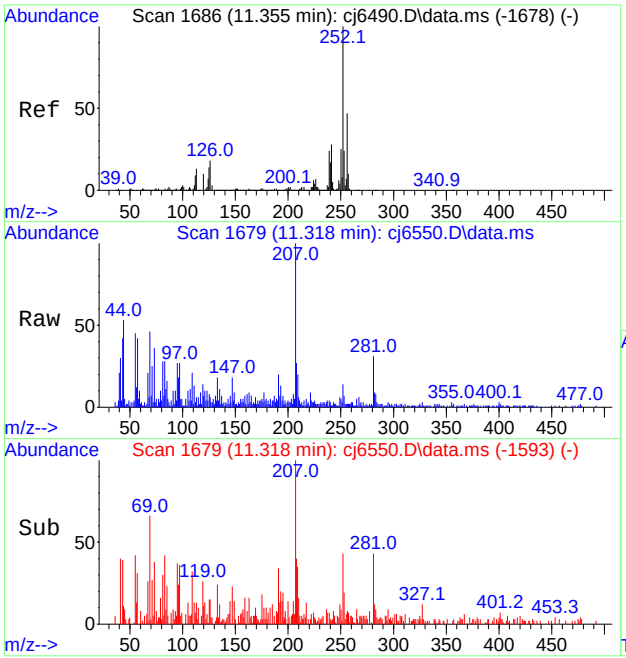


#91
Chrysene
Concen: 0.0401 ppm
RT: 10.365 min Scan# 1501
Delta R.T. -0.033 min
Lab File: cj6550.D
Acq: 10 May 2024 10:50 am

Tgt Ion:228 Resp: 1159

Ion	Ratio	Lower	Upper
228	100		
226	30.7	0.0	59.9
229	18.5	0.0	49.8

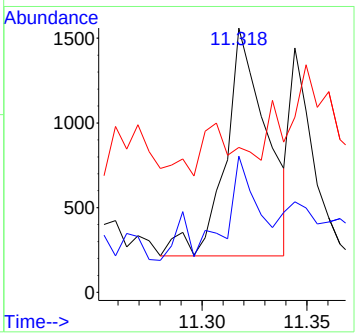


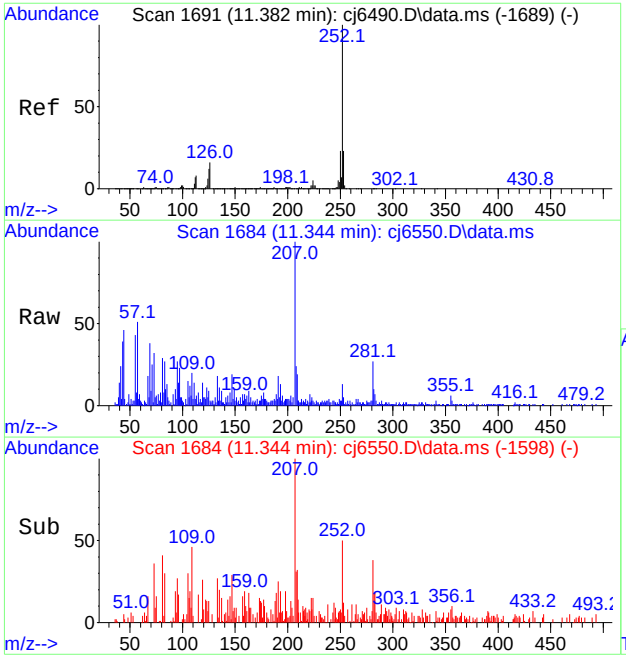


#95
Benzo[b]fluoranthene
Concen: 0.0634 ppm
RT: 11.318 min Scan# 1679
Delta R.T. -0.037 min
Lab File: cj6550.D
Acq: 10 May 2024 10:50 am

Tgt Ion:252 Resp: 1833

Ion	Ratio	Lower	Upper
252	100		
253	43.6	0.0	54.7
125	4.3	0.0	44.2

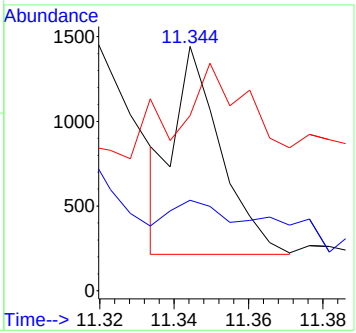


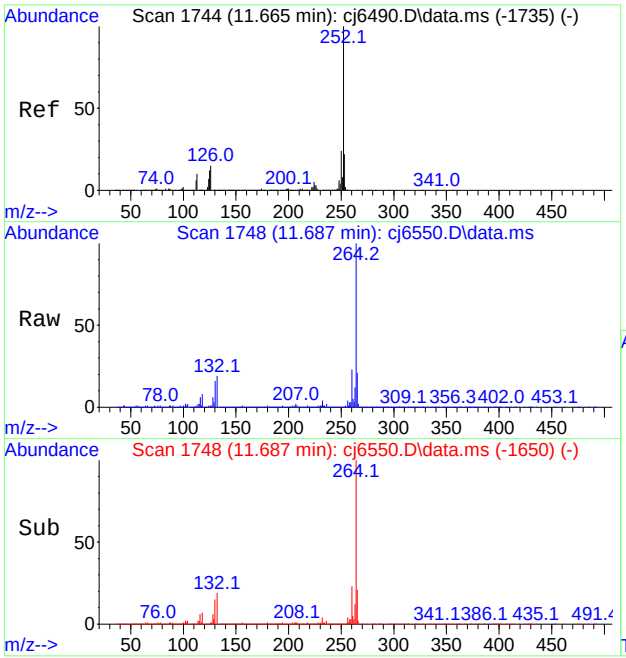


#96
Benzo[k]fluoranthene
Concen: 0.0410 ppm m
RT: 11.344 min Scan# 1684
Delta R.T. -0.038 min
Lab File: cj6550.D
Acq: 10 May 2024 10:50 am

Tgt Ion:252 Resp: 1067

Ion	Ratio	Lower	Upper
252	100		
253	37.1	0.0	52.6
125	71.7	0.0	42.4#

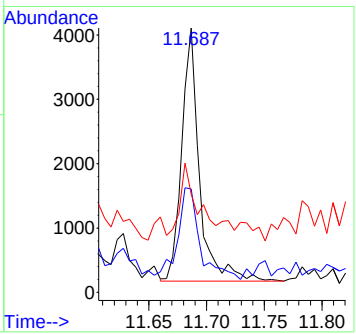




#97
Benzo[a]pyrene
Concen: 0.1753 ppm
RT: 11.687 min Scan# 1748
Delta R.T. 0.022 min
Lab File: cj6550.D
Acq: 10 May 2024 10:50 am

Tgt Ion:252 Resp: 4196

Ion	Ratio	Lower	Upper
252	100		
253	32.1	0.0	51.9
125	9.2	0.0	42.1



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6550.D
Acq On : 10 May 2024 10:50 am
Operator : karimam
Sample : op54467b-mb1
Misc : op54467b,ecj298,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj6550.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.417	11	15	28	rVV	60238	64130	2.08%	0.228%
2	2.583	40	46	53	rBV9	7455	13198	0.43%	0.047%
3	2.974	116	119	127	rBV	40876	36295	1.17%	0.129%
4	3.054	127	134	137	rBV7	6908	7815	0.25%	0.028%
5	3.091	137	141	151	rVB9	7450	19100	0.62%	0.068%
6	3.220	159	165	168	rBV7	5680	9179	0.30%	0.033%
7	3.332	179	186	188	rVV	52349	40790	1.32%	0.145%
8	3.353	188	190	194	rVB	60747	46355	1.50%	0.164%
9	3.412	194	201	205	rVB	31010	32272	1.04%	0.115%
10	3.466	205	211	215	rBV	19777	25153	0.81%	0.089%
11	3.514	215	220	225	rVB	88741	74448	2.41%	0.264%
12	3.557	225	228	232	rVB	97062	66773	2.16%	0.237%
13	3.674	246	250	257	rBV2	22856	29326	0.95%	0.104%
14	3.792	265	272	287	rVB	867975	566312	18.33%	2.009%
15	4.107	328	331	339	rVB8	4066	7670	0.25%	0.027%
16	4.273	358	362	365	rBV4	7575	7673	0.25%	0.027%
17	4.370	376	380	383	rVV2	12428	8817	0.29%	0.031%
18	4.407	383	387	397	rVB	795447	463575	15.01%	1.645%
19	4.648	427	432	442	rBV	2638581	1868336	60.48%	6.629%
20	4.749	442	451	459	rVB	270049	205683	6.66%	0.730%
21	4.899	473	479	482	rBV3	15267	14538	0.47%	0.052%
22	5.001	493	498	503	rBV	2247446	1435768	46.48%	5.094%
23	5.113	517	519	523	rBV2	17200	13782	0.45%	0.049%
24	5.247	537	544	546	rBV6	7184	8483	0.27%	0.030%
25	5.386	563	570	576	rBV9	8183	11847	0.38%	0.042%
26	5.455	579	583	587	rBV	4173115	2396152	77.57%	8.501%
27	5.552	598	601	604	rVB4	9401	8819	0.29%	0.031%
28	5.616	604	613	617	rBV4	7384	12814	0.41%	0.045%
29	5.776	636	643	650	rBV2	16050	19302	0.62%	0.068%
30	5.840	651	655	658	rBV4	13353	9992	0.32%	0.035%
31	5.953	671	676	684	rVB	451780	278156	9.00%	0.987%
32	6.017	684	688	693	rVB2	11228	9162	0.30%	0.033%
33	6.151	702	713	719	rVB	3847402	2594778	84.00%	9.206%
34	6.220	719	726	729	rBV4	12199	13781	0.45%	0.049%
35	6.407	754	761	764	rBV	17301	14195	0.46%	0.050%
36	6.456	766	770	775	rVB4	16873	14277	0.46%	0.051%
37	6.643	798	805	812	rBV	4365973	2881322	93.28%	10.223%
38	7.039	870	879	887	rVB	482348	355976	11.52%	1.263%
39	7.253	914	919	929	rBV	958342	789705	25.56%	2.802%
40	7.622	982	988	996	rBV	23125	24553	0.79%	0.087%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6550.D
Acq On : 10 May 2024 10:50 am
Operator : karimam
Sample : op54467b-mb1
Misc : op54467b,ecj298,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	7.745	1003	1011	1018	rBV2	14136	17915	0.58%	0.064%
42	7.852	1024	1031	1037	rBV	4155347	3089053	100.00%	10.960%
43	7.900	1037	1040	1048	rVB6	9932	15507	0.50%	0.055%
44	8.183	1084	1093	1096	rVV3	14319	18683	0.60%	0.066%
45	8.221	1096	1100	1105	rVB8	9510	14883	0.48%	0.053%
46	8.290	1105	1113	1117	rBV10	4289	9809	0.32%	0.035%
47	8.349	1117	1124	1134	rBV2	99918	117004	3.79%	0.415%
48	8.718	1188	1193	1198	rBV3	12923	18336	0.59%	0.065%
49	8.846	1211	1217	1221	rBV9	7610	11147	0.36%	0.040%
50	8.884	1221	1224	1229	rBV7	5152	8317	0.27%	0.030%
51	8.943	1229	1235	1240	rBV	446118	355490	11.51%	1.261%
52	9.023	1240	1250	1256	rBV6	57738	99200	3.21%	0.352%
53	9.060	1256	1257	1261	rVB4	9960	9149	0.30%	0.032%
54	9.098	1261	1264	1274	rVB	51163	49861	1.61%	0.177%
55	9.210	1282	1285	1290	rVB3	13058	15790	0.51%	0.056%
56	9.333	1302	1308	1313	rBV	2415503	1947172	63.03%	6.909%
57	9.456	1321	1331	1335	rBV	7059	18168	0.59%	0.064%
58	9.558	1346	1350	1352	rBV5	9138	9331	0.30%	0.033%
59	9.595	1352	1357	1365	rVB3	22689	35274	1.14%	0.125%
60	9.676	1367	1372	1380	rBV4	13090	19834	0.64%	0.070%
61	9.815	1394	1398	1404	rBV8	10093	15447	0.50%	0.055%
62	9.906	1409	1415	1416	rBV6	13686	18050	0.58%	0.064%
63	9.938	1416	1421	1424	rBV4	30332	41581	1.35%	0.148%
64	9.964	1425	1426	1440	rVB3	15645	41203	1.33%	0.146%
65	10.066	1440	1445	1450	rBV9	5860	11181	0.36%	0.040%
66	10.119	1450	1455	1458	rBV5	14643	20876	0.68%	0.074%
67	10.205	1463	1471	1474	rBV8	14504	29940	0.97%	0.106%
68	10.264	1474	1482	1489	rBV3	41337	67290	2.18%	0.239%
69	10.344	1489	1497	1503	rBV	3113693	2897124	93.79%	10.279%
70	10.456	1507	1518	1528	rBV	278723	373005	12.08%	1.323%
71	10.531	1528	1532	1535	rBV5	17580	12838	0.42%	0.046%
72	10.579	1537	1541	1547	rBV2	45632	50100	1.62%	0.178%
73	10.665	1547	1557	1559	rBV2	14792	25498	0.83%	0.090%
74	10.783	1570	1579	1581	rBV10	20968	46313	1.50%	0.164%
75	10.820	1581	1586	1591	rVB5	38373	42704	1.38%	0.152%
76	10.884	1594	1598	1602	rBV	54177	57391	1.86%	0.204%
77	10.916	1602	1604	1611	rBV8	10283	18575	0.60%	0.066%
78	11.029	1611	1625	1631	rBV	390495	389864	12.62%	1.383%
79	11.093	1631	1637	1641	rBV8	19287	31175	1.01%	0.111%
80	11.141	1641	1646	1650	rBV8	25239	34672	1.12%	0.123%
81	11.178	1650	1653	1657	rBV	43173	43207	1.40%	0.153%
82	11.243	1662	1665	1667	rVV4	7391	8235	0.27%	0.029%
83	11.291	1667	1674	1681	rVV4	47992	93091	3.01%	0.330%
84	11.435	1698	1701	1705	rVV6	6779	7827	0.25%	0.028%
85	11.483	1705	1710	1714	rBV5	39899	53719	1.74%	0.191%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6550.D
Acq On : 10 May 2024 10:50 am
Operator : karimam
Sample : op54467b-mb1
Misc : op54467b,ecj298,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	11.606	1727	1733	1740	rVV	283573	314924	10.19%	1.117%
87	11.687	1740	1748	1755	rBV	2659984	2760248	89.36%	9.793%
88	11.810	1763	1771	1781	rBV9	29324	72065	2.33%	0.256%
89	11.954	1795	1798	1804	rVB8	14464	18601	0.60%	0.066%
90	12.184	1833	1841	1851	rVB8	28582	82145	2.66%	0.291%
91	12.254	1851	1854	1859	rVB7	7514	10616	0.34%	0.038%
92	12.596	1914	1918	1931	rVB7	14377	32377	1.05%	0.115%
93	12.949	1981	1984	1988	rBV6	8358	9166	0.30%	0.033%
94	12.986	1988	1991	1995	rBV6	6423	8705	0.28%	0.031%
95	13.045	1996	2002	2003	rBV6	10931	11870	0.38%	0.042%
96	13.179	2025	2027	2032	rVB6	6964	8677	0.28%	0.031%
97	13.425	2069	2073	2076	rBV6	7301	10559	0.34%	0.037%
98	14.110	2197	2201	2205	rBV7	5931	7771	0.25%	0.028%
99	14.265	2225	2230	2232	rVB6	6662	9761	0.32%	0.035%
100	14.361	2245	2248	2253	rVB7	11207	16476	0.53%	0.058%

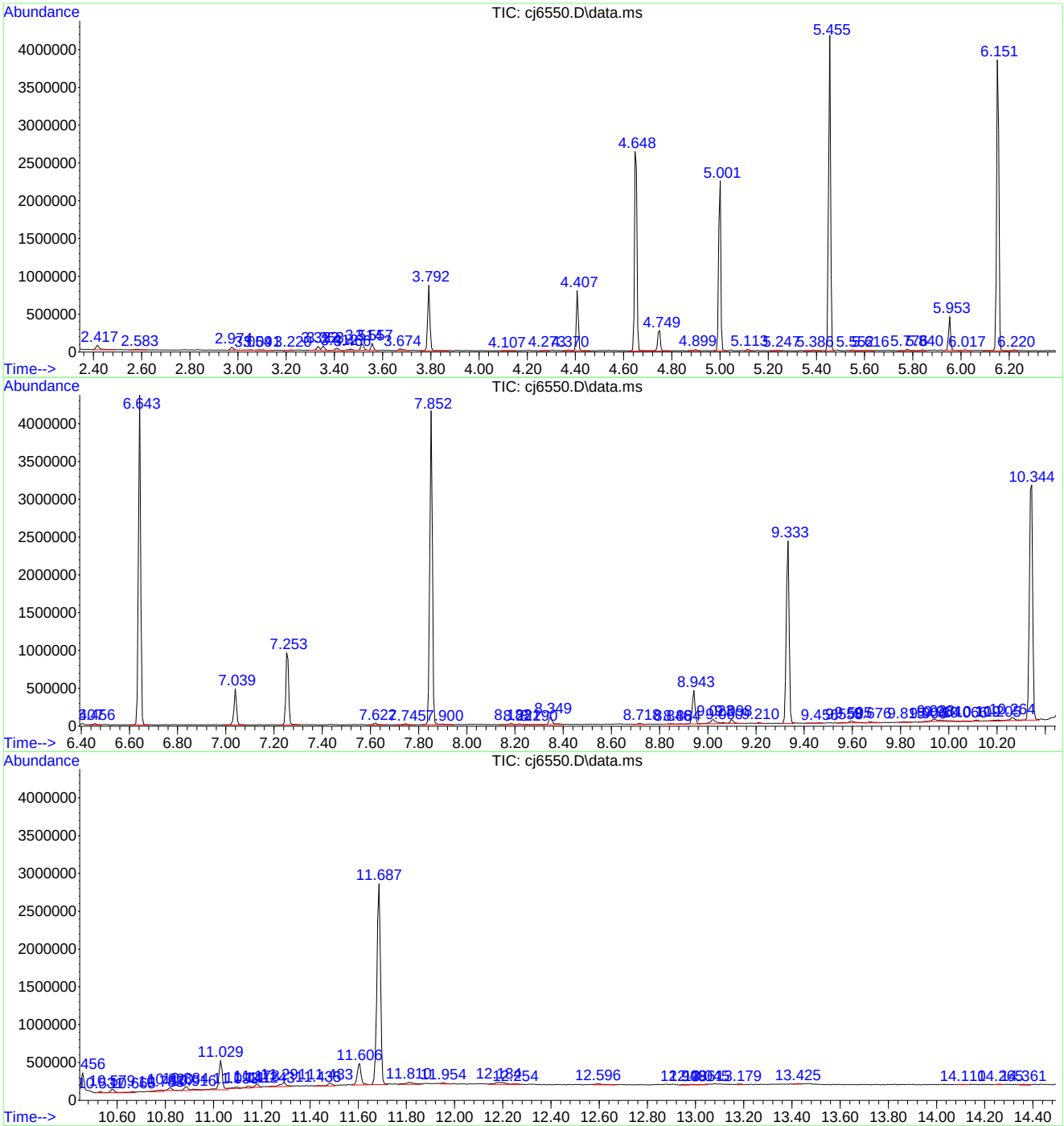
Sum of corrected areas: 28185092

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6550.D
Acq On : 10 May 2024 10:50 am
Operator : karimam
Sample : op54467b-mb1
Misc : op54467b,ecj298,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6550.D
Acq On : 10 May 2024 10:50 am
Operator : karimam
Sample : op54467b-mb1
Misc : op54467b,ecj298,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

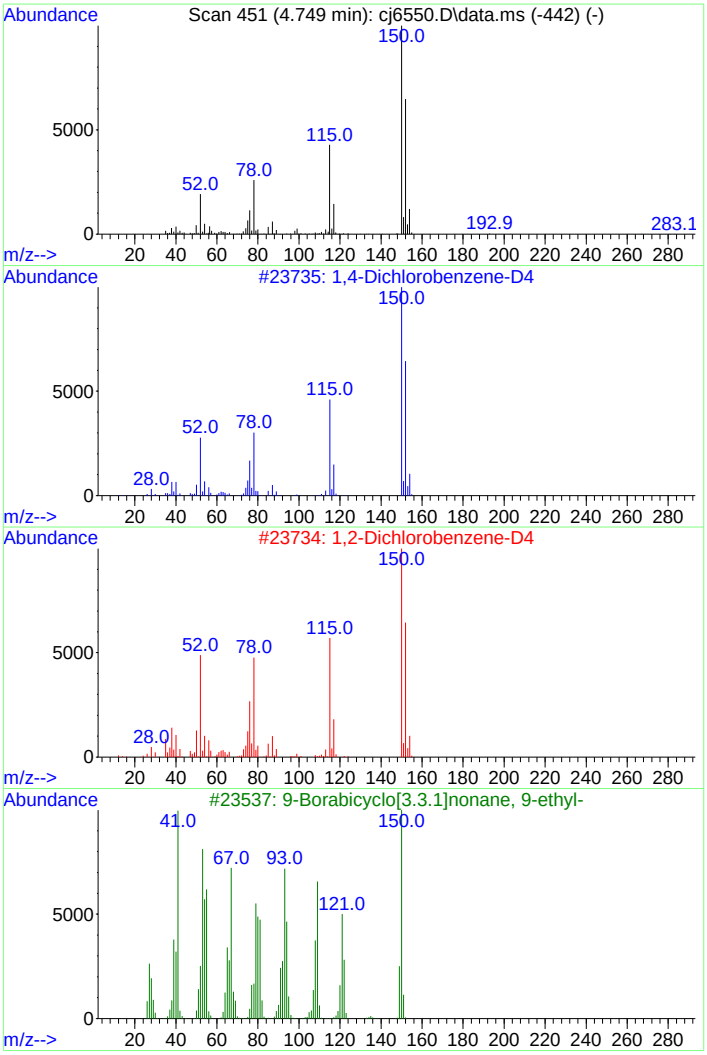
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

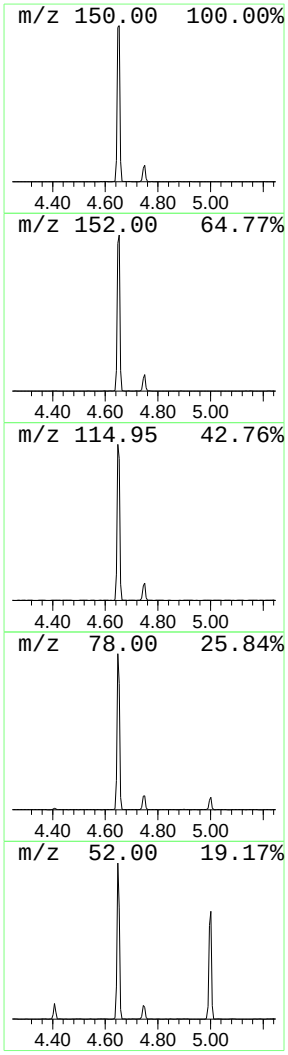
****

Peak Number 1 Internal standard added for... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.749	4.40 ppm	205683	1,4-Dichlorobenzene-d4a	4.653

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Dichlorobenzene-D4	150	C6D4Cl2	003855-82-1	95
2	1,2-Dichlorobenzene-D4	150	C6D4Cl2	002199-69-1	94
3	9-Borabicyclo[3.3.1]nonane, 9-et...	150	C10H19B	052102-17-7	38
4	Benzenamine, N,N-dimethyl-4-nitr...	150	C8H10N2O	000138-89-6	12
5	3-(4-Nitrobenzoyl)-2-thioxo-4-th...	431	C17H9N3O7S2	329218-74-8	10





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6550.D
Acq On : 10 May 2024 10:50 am
Operator : karimam
Sample : op54467b-mb1
Misc : op54467b,ecj298,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

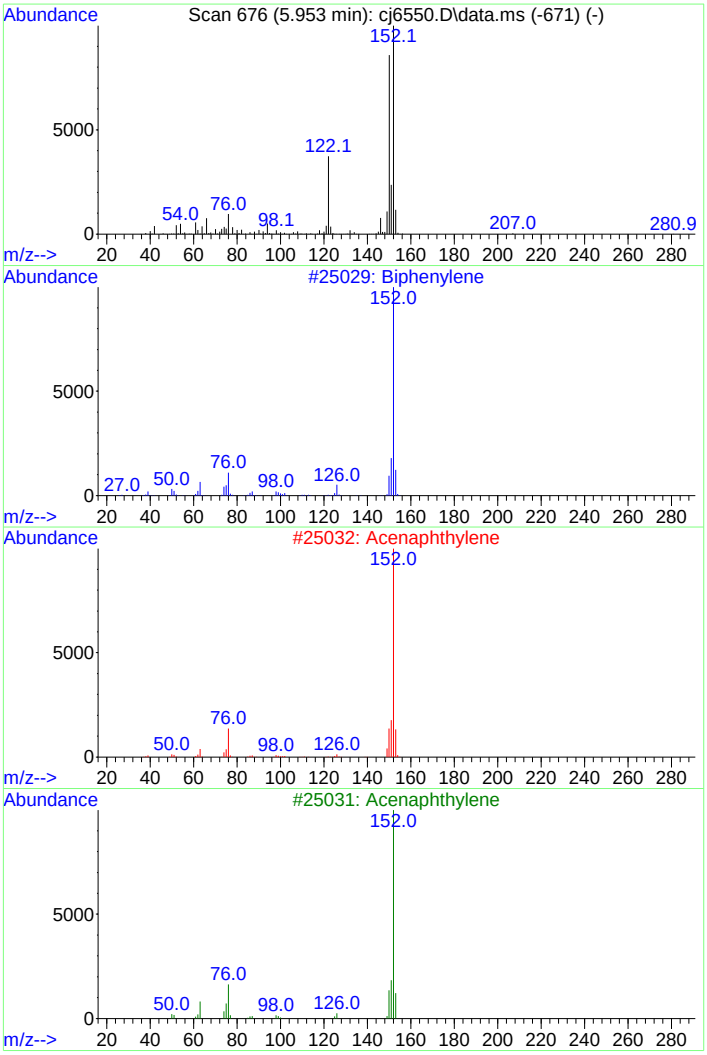
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

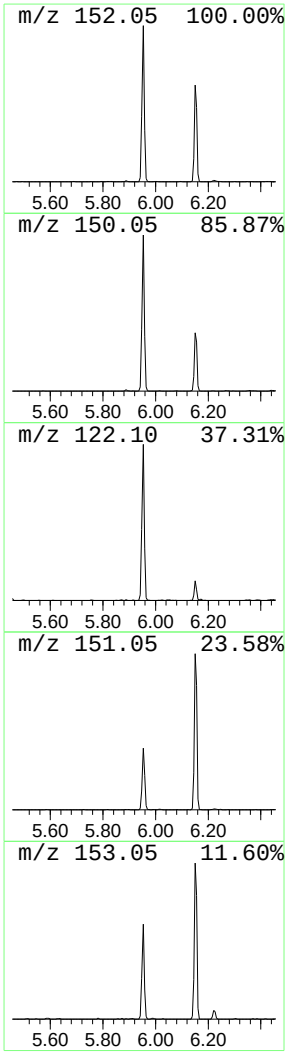
****

Peak Number 2 unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.953	4.64 ppm	278156	Naphthalene-d8a	5.455

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Biphenylene	152	C12H8	000259-79-0	43
2	Acenaphthylene	152	C12H8	000208-96-8	43
3	Acenaphthylene	152	C12H8	000208-96-8	38
4	[1,2,4]Triazolo[1,5-a]pyrimidin-...	150	C6H6N4O	002503-56-2	38
5	5,6-Dihydro-4-methylthieno(2,3-d...	152	C7H8N2S	092204-06-3	35





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6550.D
Acq On : 10 May 2024 10:50 am
Operator : karimam
Sample : op54467b-mb1
Misc : op54467b,ecj298,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

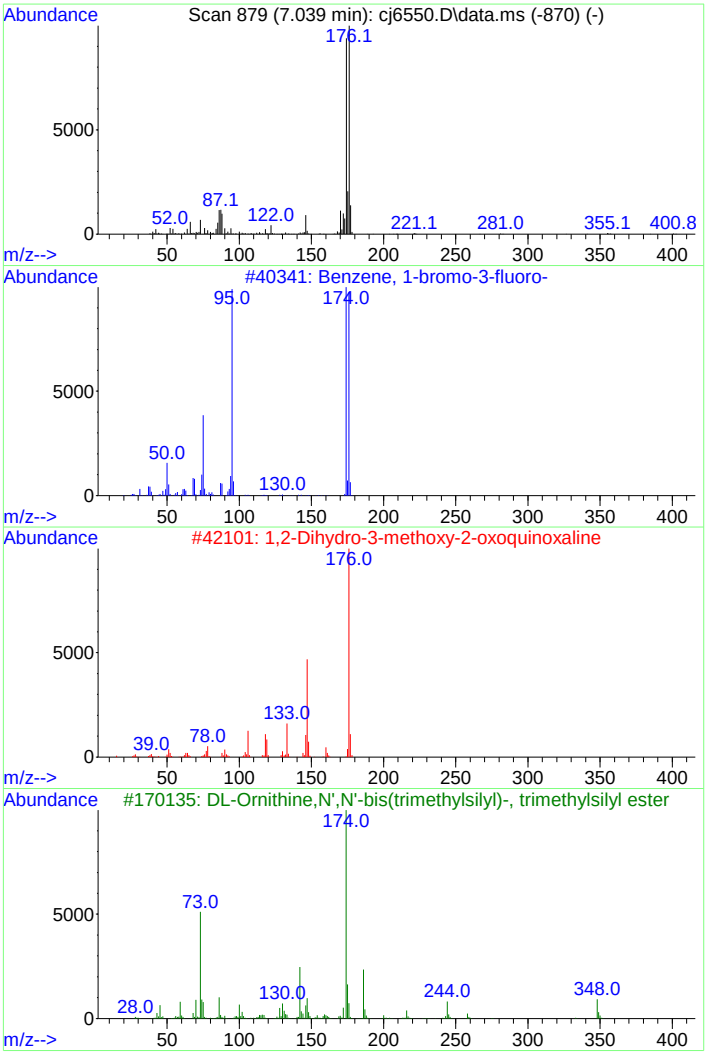
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

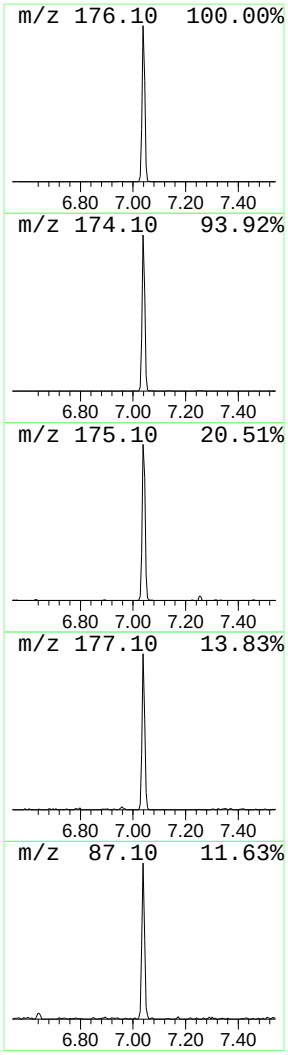
****

Peak Number 3 system artifact Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.039	4.94 ppm	355976	Acenaphthene-d10	6.643

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-bromo-3-fluoro-	174	C6H4BrF	001073-06-9	42
2	1,2-Dihydro-3-methoxy-2-oxoquino...	176	C9H8N2O2	035676-71-2	27
3	DL-Ornithine,N',N'-bis(trimethyl...	348	C14H36N2O2Si3	1000333-14-1	25
4	Tris(trimethylsilyl)ornithine, m...	362	C15H38N2O2Si3	1000073-88-2	23
5	Acetic acid 5-phenyl-[1,3,4]oxad...	218	C11H10N2O3	1000275-76-2	17





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6550.D
Acq On : 10 May 2024 10:50 am
Operator : karimam
Sample : op54467b-mb1
Misc : op54467b,ecj298,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

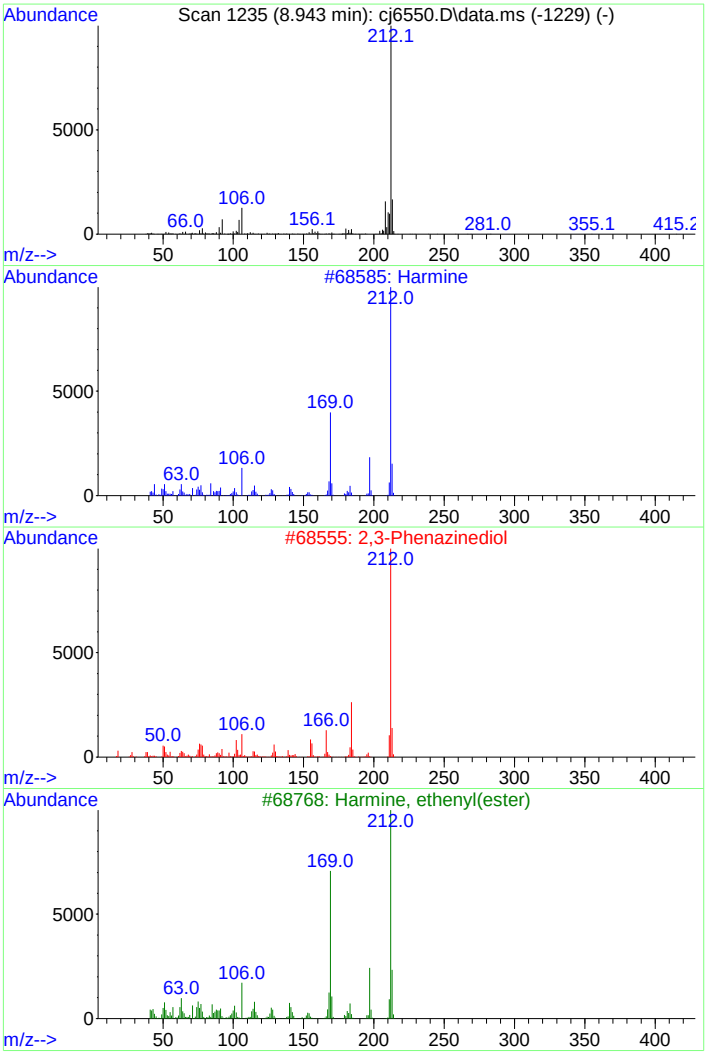
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

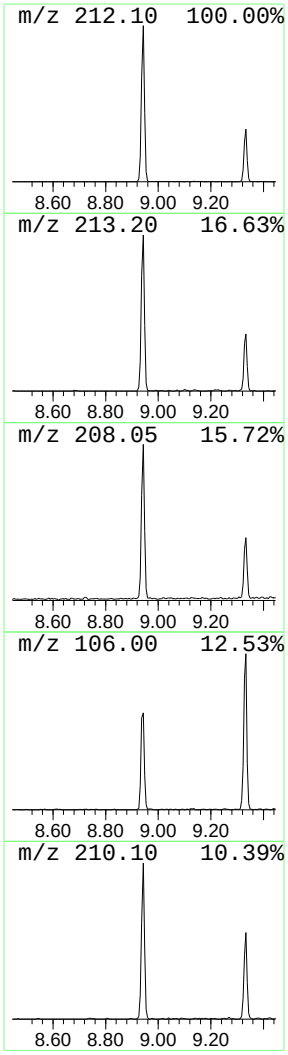
****

Peak Number 4 unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.943	4.60 ppm	355490	Phenanthrene-d10b	7.852

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Harmine	212	C13H12N2O	000442-51-3	72
2	2,3-Phenazinediol	212	C12H8N2O2	019220-18-9	64
3	Harmine, ethenyl(ester)	212	C14H12O2	074797-84-5	64
4	Acridin-9-amine, 1,2,3,4-tetrahy...	212	C14H16N2	005778-78-9	59
5	1,3-Diamino-5,6-dihydrobenzo[f]q...	212	C12H12N4	016061-72-6	59





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6550.D
Acq On : 10 May 2024 10:50 am
Operator : karimam
Sample : op54467b-mb1
Misc : op54467b,ecj298,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

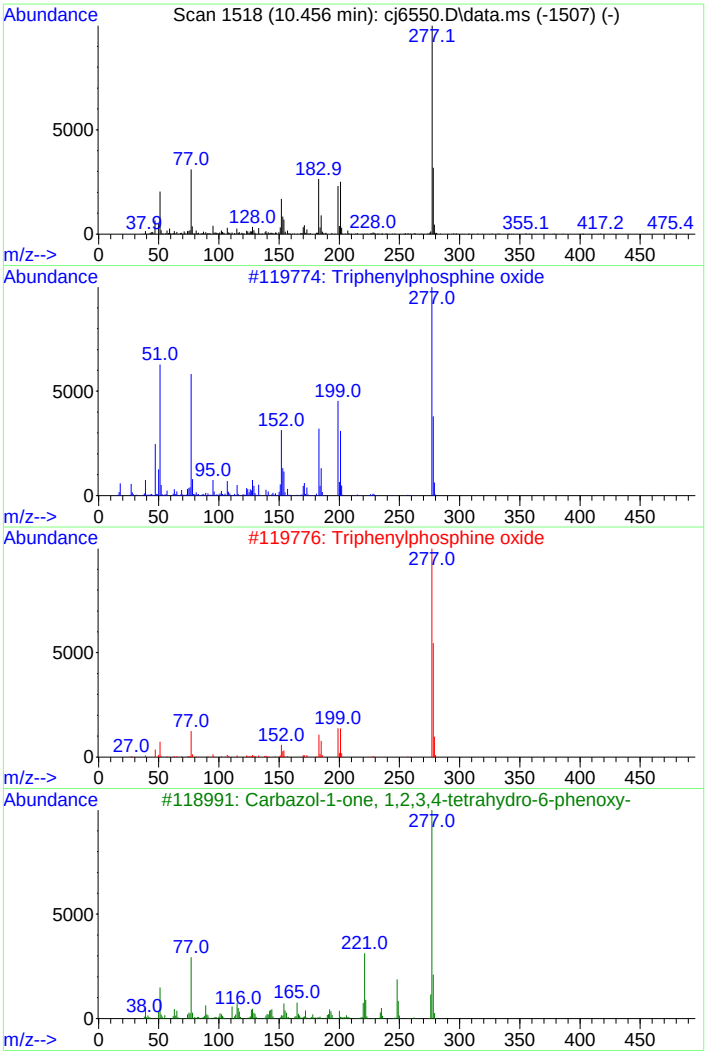
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

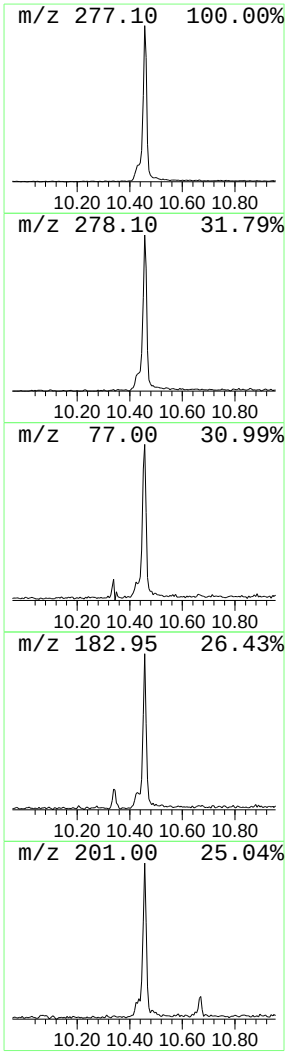
****

Peak Number 5 system artifact Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.456	5.15 ppm	373005	Chrysene-d12a	10.344

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylphosphine oxide	278	C18H15OP	000791-28-6	97
2	Triphenylphosphine oxide	278	C18H15OP	000791-28-6	83
3	Carbazol-1-one, 1,2,3,4-tetrahyd...	277	C18H15NO2	299962-12-2	43
4	4-Nitro-4'-methyldiphenylsulfone	277	C13H11NO4S	004094-37-5	43
5	Triphenylphosphine oxide	278	C18H15OP	000791-28-6	43





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6550.D
Acq On : 10 May 2024 10:50 am
Operator : karimam
Sample : op54467b-mb1
Misc : op54467b,ecj298,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

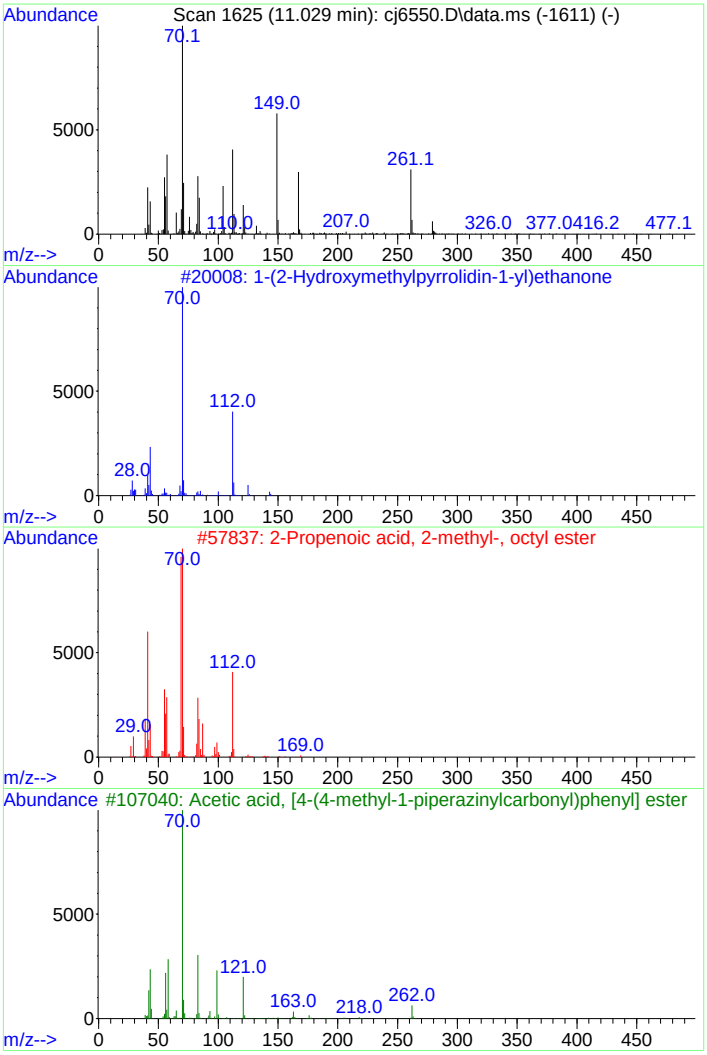
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

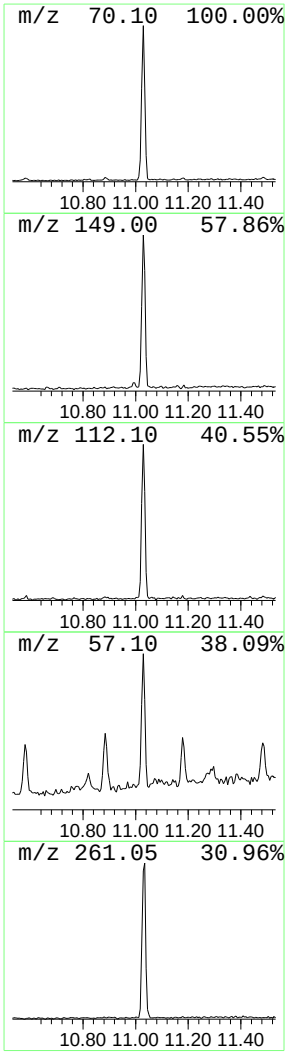
****

Peak Number 6 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.029	5.65 ppm	389864	Perylene-d12	11.687

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(2-Hydroxymethylpyrrolidin-1-y...	143	C7H13NO2	1000192-83-2	38
2	2-Propenoic acid, 2-methyl-, oct...	198	C12H22O2	002157-01-9	25
3	Acetic acid, [4-(4-methyl-1-pipe...	262	C14H18N2O3	346699-90-9	22
4	Phthalic acid, 3,5-difluoropheny...	418	C24H28F2O4	1000315-53-1	14
5	Bis(2-ethylhexyl) phthalate	390	C24H38O4	000117-81-7	12





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6550.D
Acq On : 10 May 2024 10:50 am
Operator : karimam
Sample : op54467b-mb1
Misc : op54467b,ecj298,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

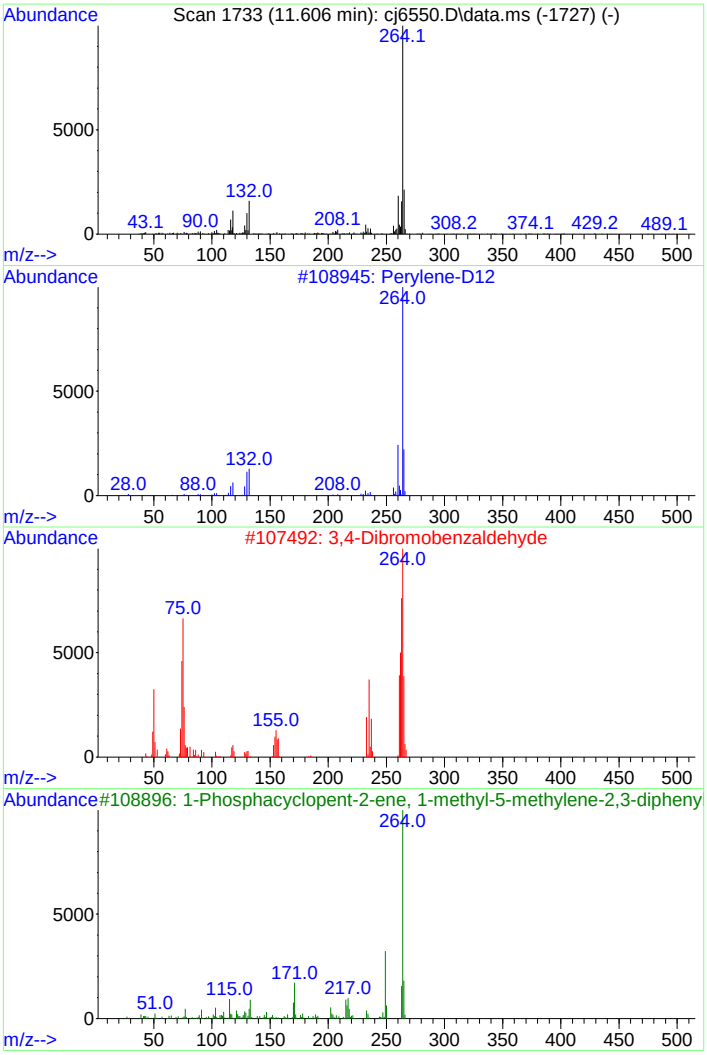
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

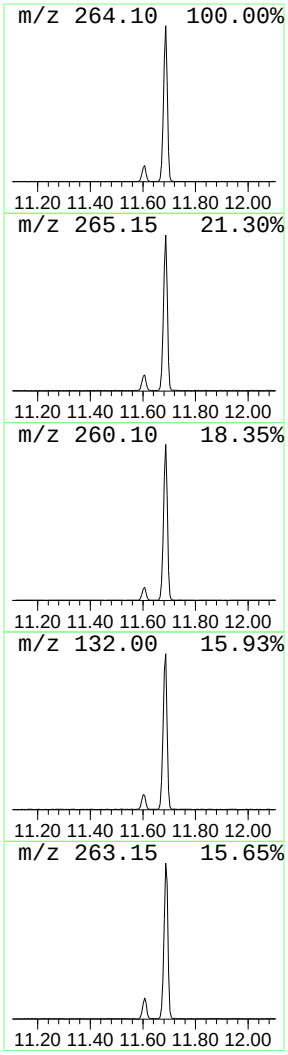
****

Peak Number 7 Internal standard added for... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.606	4.56 ppm	314924	Perylene-d12	11.687

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene-D12	264	C20D12	001520-96-3	96
2	3,4-Dibromobenzaldehyde	262	C7H4Br2O	074003-55-7	58
3	1-Phosphacyclopent-2-ene, 1-meth...	264	C18H17P	1000161-67-7	58
4	Benzenamine, 4-methyl-N-[2-[1-(4...	307	C17H17N5O	274690-74-3	56
5	2-Trifluoromethyl-1,8-phenanthro...	264	C13H7F3N2O	1000255-81-8	53





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\danielas\ECJ298\
Data File : cj6550.D
Acq On : 10 May 2024 10:50 am
Operator : karimam
Sample : op54467b-mb1
Misc : op54467b,ecj298,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Internal standa...	4.749	4.4	ppm	205683	2	4.653	1868340	40.0
unknown	5.953	4.6	ppm	278156	4	5.455	2396150	40.0
system artifact	7.039	4.9	ppm	355976	5	6.643	2881320	40.0
unknown	8.943	4.6	ppm	355490	8	7.852	3089050	40.0
system artifact	10.456	5.2	ppm	373005	10	10.344	2897120	40.0
unknown	11.029	5.7	ppm	389864	11	11.687	2760250	40.0
Internal standa...	11.606	4.6	ppm	314924	11	11.687	2760250	40.0

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- DDT/Endrin Breakdown Checks
- GC Identification Summaries (Hits)
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54399-MB1 [a]	1G196195.D	1	05/08/24	CP	05/07/24	OP54399	G1G7004

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD87833-17

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0080	0.0041	ug/l	
319-84-6	alpha-BHC	ND	0.0080	0.0042	ug/l	
319-85-7	beta-BHC	ND	0.0080	0.0064	ug/l	
319-86-8	delta-BHC	ND	0.0080	0.0053	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0080	0.0048	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0080	0.0039	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0080	0.0034	ug/l	
57-74-9	Chlordane (alpha and gamma)	ND	0.0080	0.0034	ug/l	
60-57-1	Dieldrin	ND	0.0080	0.0061	ug/l	
72-54-8	4,4'-DDD	ND	0.0080	0.0046	ug/l	
72-55-9	4,4'-DDE	ND	0.0080	0.0040	ug/l	
50-29-3	4,4'-DDT	0.19	0.0080	0.0055	ug/l	B
72-20-8	Endrin	ND	0.0080	0.0048	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0080	0.0044	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0080	0.0054	ug/l	
53494-70-5	Endrin ketone	ND	0.0080	0.0050	ug/l	
959-98-8	Endosulfan-I	ND	0.0080	0.0042	ug/l	
33213-65-9	Endosulfan-II	ND	0.0080	0.0039	ug/l	
76-44-8	Heptachlor	ND	0.0080	0.0036	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0080	0.0048	ug/l	
72-43-5	Methoxychlor	ND	0.016	0.0054	ug/l	
8001-35-2	Toxaphene	ND	0.20	0.13	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	36%	10-175%
877-09-8	Tetrachloro-m-xylene	35%	10-175%
2051-24-3	Decachlorobiphenyl	41%	10-128%
2051-24-3	Decachlorobiphenyl	33%	10-128%

(a) Detection due to lab contamination.

Method Blank Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54554-MB1 [a]	1G196359.D	1	05/14/24	RK	05/13/24	OP54554	G1G7013

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD87833-17R

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0080	0.0041	ug/l	
319-84-6	alpha-BHC	ND	0.0080	0.0042	ug/l	
319-85-7	beta-BHC	ND	0.0080	0.0064	ug/l	
319-86-8	delta-BHC	ND	0.0080	0.0053	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0080	0.0048	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0080	0.0039	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0080	0.0034	ug/l	
57-74-9	Chlordane (alpha and gamma)	ND	0.0080	0.0034	ug/l	
60-57-1	Dieldrin	ND	0.0080	0.0061	ug/l	
72-54-8	4,4'-DDD	ND	0.0080	0.0046	ug/l	
72-55-9	4,4'-DDE	ND	0.0080	0.0040	ug/l	
50-29-3	4,4'-DDT	0.012	0.0080	0.0055	ug/l	B
72-20-8	Endrin	ND	0.0080	0.0048	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0080	0.0044	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0080	0.0054	ug/l	
53494-70-5	Endrin ketone	ND	0.0080	0.0050	ug/l	
959-98-8	Endosulfan-I	ND	0.0080	0.0042	ug/l	
33213-65-9	Endosulfan-II	ND	0.0080	0.0039	ug/l	
76-44-8	Heptachlor	ND	0.0080	0.0036	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0080	0.0048	ug/l	
72-43-5	Methoxychlor	ND	0.016	0.0054	ug/l	
8001-35-2	Toxaphene	ND	0.20	0.13	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	67%	10-175%
877-09-8	Tetrachloro-m-xylene	65%	10-175%
2051-24-3	Decachlorobiphenyl	84%	10-128%
2051-24-3	Decachlorobiphenyl	67%	10-128%

(a) Detection due to lab contamination.

Method Blank Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54400-MB1	3G141337.D	1	05/08/24	CP	05/07/24	OP54400	G3G5173

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD87833-17

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.40	0.16	ug/l	
11104-28-2	Aroclor 1221	ND	0.40	0.34	ug/l	
11141-16-5	Aroclor 1232	ND	0.40	0.21	ug/l	
53469-21-9	Aroclor 1242	ND	0.40	0.37	ug/l	
12672-29-6	Aroclor 1248	ND	0.40	0.35	ug/l	
11097-69-1	Aroclor 1254	ND	0.40	0.33	ug/l	
11096-82-5	Aroclor 1260	ND	0.40	0.33	ug/l	
11100-14-4	Aroclor 1268	ND	0.40	0.14	ug/l	
37324-23-5	Aroclor 1262	ND	0.40	0.36	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	33%	10-169%
877-09-8	Tetrachloro-m-xylene	29%	10-169%
2051-24-3	Decachlorobiphenyl	28%	10-130%
2051-24-3	Decachlorobiphenyl	26%	10-130%

Method Blank Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54452-MB1 [a]	8G56337.D	1	05/09/24	CP	05/08/24	OP54452	G8G2470

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD87833-1, JD87833-3, JD87833-4, JD87833-5, JD87833-7, JD87833-8, JD87833-10, JD87833-11, JD87833-12, JD87833-14, JD87833-15, JD87833-16

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.40	0.078	ug/kg	
319-84-6	alpha-BHC	ND	0.40	0.046	ug/kg	
319-85-7	beta-BHC	0.088	0.40	0.058	ug/kg	JB
319-86-8	delta-BHC	0.11	0.40	0.060	ug/kg	JB
58-89-9	gamma-BHC (Lindane)	ND	0.40	0.070	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.40	0.054	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.40	0.060	ug/kg	
57-74-9	Chlordane (alpha and gamma)	ND	0.40	0.054	ug/kg	
60-57-1	Dieldrin	ND	0.40	0.064	ug/kg	
72-54-8	4,4'-DDD	ND	0.40	0.042	ug/kg	
72-55-9	4,4'-DDE	ND	0.40	0.048	ug/kg	
50-29-3	4,4'-DDT	ND	0.40	0.070	ug/kg	
72-20-8	Endrin	ND	0.40	0.058	ug/kg	
1031-07-8	Endosulfan sulfate	0.080	0.40	0.048	ug/kg	JB
7421-93-4	Endrin aldehyde	ND	0.40	0.12	ug/kg	
959-98-8	Endosulfan-I	ND	0.40	0.054	ug/kg	
33213-65-9	Endosulfan-II	ND	0.40	0.056	ug/kg	
76-44-8	Heptachlor	ND	0.40	0.052	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.40	0.072	ug/kg	
72-43-5	Methoxychlor	ND	0.40	0.16	ug/kg	
53494-70-5	Endrin ketone	ND	0.40	0.064	ug/kg	
8001-35-2	Toxaphene	ND	5.0	3.3	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	97%	46-145%
877-09-8	Tetrachloro-m-xylene	98%	46-145%
2051-24-3	Decachlorobiphenyl	88%	29-163%
2051-24-3	Decachlorobiphenyl	95%	29-163%

(a) Detections due to lab contamination.

Method Blank Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54453-MB1	2G231733.D	1	05/09/24	MLC	05/08/24	OP54453	G2G6085

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD87833-1, JD87833-3, JD87833-4, JD87833-5, JD87833-7, JD87833-8, JD87833-10, JD87833-11, JD87833-12, JD87833-14, JD87833-15, JD87833-16

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	8.5	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.7	ug/kg	
11141-16-5	Aroclor 1232	ND	20	17	ug/kg	
53469-21-9	Aroclor 1242	ND	20	12	ug/kg	
12672-29-6	Aroclor 1248	ND	20	4.3	ug/kg	
11097-69-1	Aroclor 1254	ND	20	2.2	ug/kg	
11096-82-5	Aroclor 1260	ND	20	6.9	ug/kg	
11100-14-4	Aroclor 1268	ND	20	2.0	ug/kg	
37324-23-5	Aroclor 1262	ND	20	1.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	100%	42-159%
877-09-8	Tetrachloro-m-xylene	99%	42-159%
2051-24-3	Decachlorobiphenyl	100%	18-154%
2051-24-3	Decachlorobiphenyl	94%	18-154%

Blank Spike Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54452-BS1	8G56338.D	1	05/09/24	CP	05/08/24	OP54452	G8G2470

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD87833-1, JD87833-3, JD87833-4, JD87833-5, JD87833-7, JD87833-8, JD87833-10, JD87833-11, JD87833-12, JD87833-14, JD87833-15, JD87833-16

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	5	4.2	84	71-115
319-84-6	alpha-BHC	5	4.3	86	69-110
319-85-7	beta-BHC	5	4.4	88	67-115
319-86-8	delta-BHC	5	4.4	88	58-110
58-89-9	gamma-BHC (Lindane)	5	4.2	84	70-108
5103-71-9	alpha-Chlordane	5	4.3	86	69-112
5103-74-2	gamma-Chlordane	5	4.4	88	68-111
57-74-9	Chlordane (alpha and gamma)	10	8.7	87	67-110
60-57-1	Dieldrin	5	4.3	86	71-112
72-54-8	4,4'-DDD	5	4.7	94	69-120
72-55-9	4,4'-DDE	5	3.9	78	71-108
50-29-3	4,4'-DDT	5	3.5	70 [a]	57-112
72-20-8	Endrin	5	4.3	86	71-121
1031-07-8	Endosulfan sulfate	5	4.1	82	68-108
7421-93-4	Endrin aldehyde	5	4.4	88	66-126
959-98-8	Endosulfan-I	5	4.4	88	65-114
33213-65-9	Endosulfan-II	5	4.6	92	65-115
76-44-8	Heptachlor	5	4.2	84	66-114
1024-57-3	Heptachlor epoxide	5	4.3	86	69-118
72-43-5	Methoxychlor	5	3.6	72 [a]	61-111
53494-70-5	Endrin ketone	5	4.2	84	70-108

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	106%	46-145%
877-09-8	Tetrachloro-m-xylene	99%	46-145%
2051-24-3	Decachlorobiphenyl	94%	29-163%
2051-24-3	Decachlorobiphenyl	97%	29-163%

(a) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54453-BS1	2G231734.D	1	05/09/24	MLC	05/08/24	OP54453	G2G6085

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD87833-1, JD87833-3, JD87833-4, JD87833-5, JD87833-7, JD87833-8, JD87833-10, JD87833-11, JD87833-12, JD87833-14, JD87833-15, JD87833-16

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	40	37.8	95 [a]	74-153
11104-28-2	Aroclor 1221		ND		50-150
11141-16-5	Aroclor 1232		ND		50-150
53469-21-9	Aroclor 1242		ND		50-150
12672-29-6	Aroclor 1248		ND		50-150
11097-69-1	Aroclor 1254		ND		50-150
11096-82-5	Aroclor 1260	40	39.3	98 [a]	68-147
11100-14-4	Aroclor 1268		ND		50-150
37324-23-5	Aroclor 1262		ND		50-150

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	98%	42-159%
877-09-8	Tetrachloro-m-xylene	98%	42-159%
2051-24-3	Decachlorobiphenyl	101%	18-154%
2051-24-3	Decachlorobiphenyl	94%	18-154%

(a) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54399-BS1	1G196196.D	1	05/08/24	CP	05/07/24	OP54399	G1G7004
OP54399-BSD	1G196197.D	1	05/08/24	CP	05/07/24	OP54399	G1G7004

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD87833-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	0.2	0.12	60	0.12	60	0	40-161/45
319-84-6	alpha-BHC	0.2	0.14	70	0.15	75	7	40-169/48
319-85-7	beta-BHC	0.2	0.12	60	0.13	65	8	40-166/44
319-86-8	delta-BHC	0.2	0.10	50	0.11	55	10	40-158/47
58-89-9	gamma-BHC (Lindane)	0.2	0.13	65	0.14	70	7	40-169/47
5103-71-9	alpha-Chlordane	0.2	0.13	65	0.14	70	7	40-172/43
5103-74-2	gamma-Chlordane	0.2	0.13	65	0.14	70	7	40-177/48
57-74-9	Chlordane (alpha and gamma)	0.4	0.27	68	0.28	70	4	40-171/43
60-57-1	Dieldrin	0.2	0.14	70	0.15	75	7	40-175/44
72-54-8	4,4'-DDD	0.2	0.14	70	0.14	70	0	40-166/45
72-55-9	4,4'-DDE	0.2	0.11	55	0.12	60	9	40-165/45
50-29-3	4,4'-DDT	0.2	0.15	75	0.17	85	13	40-187/48
72-20-8	Endrin	0.2	0.14	70	0.15	75	7	40-179/46
1031-07-8	Endosulfan sulfate	0.2	0.12	60	0.13	65	8	40-168/49
7421-93-4	Endrin aldehyde	0.2	0.12	60	0.13	65	8	40-165/54
53494-70-5	Endrin ketone	0.2	0.12	60	0.12	60	0	40-165/46
959-98-8	Endosulfan-I	0.2	0.13	65	0.14	70	7	40-168/45
33213-65-9	Endosulfan-II	0.2	0.13	65	0.14	70	7	40-183/46
76-44-8	Heptachlor	0.2	0.12	60	0.13	65	8	40-165/46
1024-57-3	Heptachlor epoxide	0.2	0.13	65	0.14	70	7	40-171/44
72-43-5	Methoxychlor	0.2	0.14	70	0.15	75	7	40-175/52

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	57%	61%	10-175%
877-09-8	Tetrachloro-m-xylene	55%	58%	10-175%
2051-24-3	Decachlorobiphenyl	36%	42%	10-128%
2051-24-3	Decachlorobiphenyl	31%	36%	10-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54554-BS1	1G196360.D	1	05/14/24	RK	05/13/24	OP54554	G1G7013
OP54554-BSD	1G196361.D	1	05/14/24	RK	05/13/24	OP54554	G1G7013

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD87833-17R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	0.2	0.16	80	0.086	43	60* [a]	40-161/45
319-84-6	alpha-BHC	0.2	0.17	85	0.086	43	66* [a]	40-169/48
319-85-7	beta-BHC	0.2	0.18	90	0.081	41	80* [a]	40-166/44
319-86-8	delta-BHC	0.2	0.18	90	0.098	49	59* [a]	40-158/47
58-89-9	gamma-BHC (Lindane)	0.2	0.17	85	0.092	46	60* [a]	40-169/47
5103-71-9	alpha-Chlordane	0.2	0.16	80	0.097	49	49* [a]	40-172/43
5103-74-2	gamma-Chlordane	0.2	0.18	90	0.099	50	58* [a]	40-177/48
57-74-9	Chlordane (alpha and gamma)	0.4	0.34	85	0.20	50	52* [a]	40-171/43
60-57-1	Dieldrin	0.2	0.19	95	0.11	55	53* [a]	40-175/44
72-54-8	4,4'-DDD	0.2	0.19	95	0.11	55	53* [a]	40-166/45
72-55-9	4,4'-DDE	0.2	0.16	80	0.088	44	58* [a]	40-165/45
50-29-3	4,4'-DDT	0.2	0.23	115	0.12	60	63* [a]	40-187/48
72-20-8	Endrin	0.2	0.19	95	0.11	55	53* [a]	40-179/46
1031-07-8	Endosulfan sulfate	0.2	0.19	95	0.11	55	58* [a]	40-168/49
7421-93-4	Endrin aldehyde	0.2	0.18	90	0.10	50	57* [a]	40-165/54
53494-70-5	Endrin ketone	0.2	0.20	100	0.11	55	58* [a]	40-165/46
959-98-8	Endosulfan-I	0.2	0.17	85	0.099	50	53* [a]	40-168/45
33213-65-9	Endosulfan-II	0.2	0.19	95	0.11	55	53* [a]	40-183/46
76-44-8	Heptachlor	0.2	0.17	85	0.091	46	61* [a]	40-165/46
1024-57-3	Heptachlor epoxide	0.2	0.18	90	0.10	50	57* [a]	40-171/44
72-43-5	Methoxychlor	0.2	0.20	100	0.12	60	50	40-175/52

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	74%	42%	10-175%
877-09-8	Tetrachloro-m-xylene	72%	43%	10-175%
2051-24-3	Decachlorobiphenyl	79%	33%	10-128%
2051-24-3	Decachlorobiphenyl	66%	27%	10-128%

(a) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54400-BS1	3G141338.D	1	05/08/24	CP	05/07/24	OP54400	G3G5173
OP54400-BSD	3G141339.D	1	05/08/24	CP	05/07/24	OP54400	G3G5173

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD87833-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	1.6	0.92	58	1.1	69	18	40-152/49
11104-28-2	Aroclor 1221		ND		ND		nc	50-150/30
11141-16-5	Aroclor 1232		ND		ND		nc	50-150/30
53469-21-9	Aroclor 1242		ND		ND		nc	50-150/30
12672-29-6	Aroclor 1248		ND		ND		nc	50-150/30
11097-69-1	Aroclor 1254		ND		ND		nc	50-150/30
11096-82-5	Aroclor 1260	1.6	0.71	44	0.85	53	18	29-157/55
11100-14-4	Aroclor 1268		ND		ND		nc	50-150/30
37324-23-5	Aroclor 1262		ND		ND		nc	50-150/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	56%	57%	10-169%
877-09-8	Tetrachloro-m-xylene	50%	56%	10-169%
2051-24-3	Decachlorobiphenyl	22%	34%	10-130%
2051-24-3	Decachlorobiphenyl	20%	34%	10-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54452-MS	8G56349.D	1	05/09/24	CP	05/08/24	OP54452	G8G2470
OP54452-MSD	8G56350.D	1	05/09/24	CP	05/08/24	OP54452	G8G2470
JD87772-1	8G56363.D	1	05/09/24	CP	05/08/24	OP54452	G8G2470

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD87833-1, JD87833-3, JD87833-4, JD87833-5, JD87833-7, JD87833-8, JD87833-10, JD87833-11, JD87833-12, JD87833-14, JD87833-15, JD87833-16

CAS No.	Compound	JD87772-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		5.21	4.3	82	5.12	4.5	88	5	34-125/32
319-84-6	alpha-BHC	ND		5.21	5.4	104	5.12	5.9	115	9	43-124/28
319-85-7	beta-BHC	ND		5.21	4.1	79	5.12	4.1	80	0	21-145/34
319-86-8	delta-BHC	ND		5.21	4.6	88	5.12	4.6	90	0	36-119/32
58-89-9	gamma-BHC (Lindane)	ND		5.21	4.2	81	5.12	4.2	82	0	48-118/28
5103-71-9	alpha-Chlordane	ND		5.21	4.0	77	5.12	4.3	84	7	28-132/33
5103-74-2	gamma-Chlordane	ND		5.21	3.8	73	5.12	4.0	78	5	20-132/33
57-74-9	Chlordane (alpha and gamma)	ND		10.4	7.0	67	10.2	7.5	73	7	20-125/32
60-57-1	Dieldrin	ND		5.21	3.9	75	5.12	4.2	82	7	32-134/32
72-54-8	4,4'-DDD	ND		5.21	4.7	90	5.12	5.0	98	6	28-135/33
72-55-9	4,4'-DDE	ND		5.21	3.5	67	5.12	3.7	72	6	23-133/32
50-29-3	4,4'-DDT	ND		5.21	2.1	40	5.12	2.2	43	5	10-144/41
72-20-8	Endrin	ND		5.21	3.8	73	5.12	4.1	80	8	33-143/33
1031-07-8	Endosulfan sulfate	ND		5.21	3.6	69	5.12	4.0	78	11	18-133/34
7421-93-4	Endrin aldehyde	ND		5.21	3.6	69	5.12	4.0	78	11	20-139/36
959-98-8	Endosulfan-I	ND		5.21	4.1	79	5.12	4.5	88	9	32-127/31
33213-65-9	Endosulfan-II	ND		5.21	3.9	75	5.12	4.2	82	7	28-128/33
76-44-8	Heptachlor	ND		5.21	4.0	77	5.12	4.0	78	0	30-133/34
1024-57-3	Heptachlor epoxide	ND		5.21	4.6	88	5.12	4.9	96	6	37-131/32
72-43-5	Methoxychlor	ND		5.21	2.1	40	5.12	2.4	47	13	13-136/37
53494-70-5	Endrin ketone	ND		5.21	3.6	69	5.12	3.9	76	8	24-149/34
8001-35-2	Toxaphene	ND			ND			ND		nc	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	JD87772-1	Limits
877-09-8	Tetrachloro-m-xylene	104%	114%	96%	46-145%
877-09-8	Tetrachloro-m-xylene	94%	95%	93%	46-145%
2051-24-3	Decachlorobiphenyl	76%	83%	71%	29-163%
2051-24-3	Decachlorobiphenyl	85%	80%	76%	29-163%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54453-MS	2G231735.D	1	05/09/24	MLC	05/08/24	OP54453	G2G6085
OP54453-MSD	2G231736.D	1	05/09/24	MLC	05/08/24	OP54453	G2G6085
JD87772-2	2G231758.D	1	05/09/24	MLC	05/08/24	OP54453	G2G6085

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD87833-1, JD87833-3, JD87833-4, JD87833-5, JD87833-7, JD87833-8, JD87833-10, JD87833-11, JD87833-12, JD87833-14, JD87833-15, JD87833-16

CAS No.	Compound	JD87772-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		40.3	36.4	90	41.9	38.8	93	6	41-167/46
11104-28-2	Aroclor 1221	ND			ND			ND		nc	50-150/30
11141-16-5	Aroclor 1232	ND			ND			ND		nc	50-150/30
53469-21-9	Aroclor 1242	ND			ND			ND		nc	50-150/17
12672-29-6	Aroclor 1248	ND			ND			ND		nc	50-150/16
11097-69-1	Aroclor 1254	ND			ND			ND		nc	10-165/38
11096-82-5	Aroclor 1260	ND		40.3	41.4	103	41.9	41.5	99	0	13-183/49
11100-14-4	Aroclor 1268	ND			ND			ND		nc	50-150/30
37324-23-5	Aroclor 1262	ND			ND			ND		nc	50-150/11

CAS No.	Surrogate Recoveries	MS	MSD	JD87772-2	Limits
877-09-8	Tetrachloro-m-xylene	97%	99%	97%	42-159%
877-09-8	Tetrachloro-m-xylene	98%	99%	96%	42-159%
2051-24-3	Decachlorobiphenyl	98%	99%	65%	18-154%
2051-24-3	Decachlorobiphenyl	95%	94%	83%	18-154%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7004-CC6859	**Injection Date:**	05/07/24
Lab File ID:	1G196193.D	**Injection Time:**	23:51
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal [a]	362997836	1.26	467282198	1.30
Check Std [b]	452768491	1.14	408878720	1.23
Upper Limit [c]	544496754	1.64	700923297	1.73
Lower Limit [d]	181498918	0.64	233641099	0.73

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP54399-MB1 [e]	435295033	1.14	384230361	1.23
OP54399-BS1	405131724	1.14	365896156	1.23
OP54399-BSD	402529578	1.14	366611497	1.23
OP54397A-MB1	404117471	1.14	365756718	1.23
OP54397-MB1	404117471	1.14	365756718	1.23
OP54397A-BS1	425947834	1.14	386007108	1.24
OP54397-BS1	425947834	1.14	386007108	1.24
OP54397A-BSD	395156267	1.14	358769088	1.24
OP54397-BSD	395156267	1.14	358769088	1.24
ZZZZZZ	511717045	1.14	471391461	1.24
ZZZZZZ	531538188	1.14	491340038	1.24
ZZZZZZ	393536607	1.14	381560296	1.23
ZZZZZZ	371925786	1.14	360158169	1.23
ZZZZZZ	421438892	1.14	392650384	1.24
ZZZZZZ	361997350	1.14	328484491	1.23
ZZZZZZ	418184325	1.14	385925479	1.23
ZZZZZZ	477556053	1.14	434703816	1.24
ZZZZZZ	400750790	1.14	328361654	1.23
JD87833-17 [f]	373410495	1.14	347923210	1.24
ZZZZZZ	457596621	1.14	393715862	1.24
ZZZZZZ	382547225	1.14	342062537	1.24
ZZZZZZ	438570326	1.14	410011252	1.24

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Initial Cal is: G1G6859-ICC6859 1G192517.D 01/29/24 07:07. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 0.5 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -0.5 minutes of check standard.
(e) Detection due to lab contamination.
(f) Detection likely due to lab contamination.

Internal Standard Area Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7013-CC6859	**Injection Date:**	05/14/24
Lab File ID:	1G196352.D	**Injection Time:**	08:13
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal [a]	362997836	1.26	467282198	1.30
Check Std [b]	366823048	1.13	346035586	1.22
Upper Limit [c]	544496754	1.63	700923297	1.72
Lower Limit [d]	181498918	0.63	233641099	0.72

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP54558A-MB1 [e]	322528729	1.13	351522801	1.22
OP54558A-BS1	336883904	1.13	337071699	1.22
OP54558A-BSD	378058927	1.13	367546049	1.22
OP54558A-BS13	343961757	1.13	359504597	1.22
OP54558A-BS14	378114345	1.13	365669991	1.22
OP54554-MB1 [e]	361755387	1.13	349171278	1.22
OP54554A-MB1 [e]	361755387	1.13	349171278	1.22
OP54554-BS1	381736872	1.13	381808212	1.22
OP54554A-BS1	381736872	1.13	381808212	1.22
OP54554-BSD	381615440	1.13	378720665	1.22
OP54554A-BSD	381615440	1.13	378720665	1.22
OP54554A-BS13	366899256	1.13	362680173	1.22
OP54554A-BS14	373529042	1.13	339276968	1.22
ZZZZZZ	459883956	1.13	524440334	1.21
ZZZZZZ	444434259	1.12	351134488	1.21
ZZZZZZ	378059888	1.13	335791285	1.22
ZZZZZZ	339999133	1.13	349509756	1.22
ZZZZZZ	322808905	1.13	314249642	1.22
ZZZZZZ	441571545	1.13	423516745	1.22

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Initial Cal is: G1G6859-ICC6859 1G192517.D 01/29/24 07:07. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 0.5 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -0.5 minutes of check standard.
(e) Detection due to lab contamination.

Internal Standard Area Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7016-CC6859	**Injection Date:**	05/15/24
Lab File ID:	1G196428.D	**Injection Time:**	10:36
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal [a]	362997836	1.26	467282198	1.30
Check Std [b]	365423344	1.14	341397966	1.23
Upper Limit [c]	544496754	1.64	700923297	1.73
Lower Limit [d]	181498918	0.64	233641099	0.73

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
ZZZZZZ	366429941	1.13	353621017	1.23
JD87833-17R [e]	389651278	1.14	388933824	1.23
ZZZZZZ	389739710	1.14	401682587	1.23
ZZZZZZ	386153794	1.14	385201752	1.23
ZZZZZZ	374175480	1.14	359907523	1.23

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Initial Cal is: G1G6859-ICC6859 1G192517.D 01/29/24 07:07. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 0.5 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -0.5 minutes of check standard.
(e) Sample extracted outside the holding time. Detections likely due to lab contamination.

Internal Standard Area Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2470-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56335.D	**Injection Time:**	00:37
Instrument ID:	GC8G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal [a]	983345442	4.93	690047387	4.46
Check Std [b]	993660503	4.91	630205362	4.46
Upper Limit [c]	1475018163	5.41	1035071081	4.96
Lower Limit [d]	491672721	4.41	345023694	3.96

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP54452-MB1 [e]	1069446516	4.91	679299502	4.46
OP54452-BS1	1016671929	4.91	628376793	4.46
ZZZZZZ	1092087652	4.91	686206579	4.46
ZZZZZZ	1189823018	4.91	784839607	4.46
ZZZZZZ	1217845543	4.91	818609653	4.46
ZZZZZZ	1121975105	4.91	655079701	4.46
ZZZZZZ	1061968543	4.91	626161816	4.46
ZZZZZZ	1107015571	4.91	704632390	4.46
ZZZZZZ	1104588077	4.91	689682723	4.46
ZZZZZZ	1116236089	4.91	677858378	4.46
OP54452-MS	930321526	4.91	623719216	4.46
OP54452-MSD	1003091698	4.91	637351091	4.46
JD87833-1	1071450736	4.91	892443921	4.46
JD87833-3	901151787	4.91	613152319	4.46
JD87833-4	1025969781	4.91	792313903	4.46
JD87833-7	931818456	4.91	657488842	4.46
JD87833-8	984272214	4.91	662136178	4.46
JD87833-10	1003140844	4.91	805738036	4.46
JD87833-12	887232198	4.91	791057542	4.45
JD87833-14	949733832	4.91	662476006	4.46
JD87833-15	917719570	4.91	633236995	4.46
JD87833-16	915524055	4.91	1028912023	4.46
JD87772-1	984666291	4.91	664882351	4.46
ZZZZZZ	1006846621	4.91	661767457	4.46
ZZZZZZ	985486932	4.91	643668329	4.46
ZZZZZZ	872811966	4.91	670379996	4.46
ZZZZZZ	875566969	4.91	628596513	4.46

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Initial Cal is: G8G2430-ICC2430 8G55359.D 04/03/24 07:03. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.

Internal Standard Area Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2470-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56335.D	**Injection Time:**	00:37
Instrument ID:	GC8G	**Method:**	SW846 8081B

Lab	**IS 1**		**IS 2**	
Sample ID	**AREA**	**RT**	**AREA**	**RT**

(c) Upper Limit = + 50% of initial standard area; Retention time + 0.5 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -0.5 minutes of check standard.
(e) Detections due to lab contamination.

Internal Standard Area Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2471-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56374.D	**Injection Time:**	15:31
Instrument ID:	GC8G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal [a]	983345442	4.93	690047387	4.46
Check Std [b]	961010320	4.92	657012953	4.47
Upper Limit [c]	1475018163	5.42	1035071081	4.97
Lower Limit [d]	491672721	4.42	345023694	3.97

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP54426-MB1	998962447	4.92	669302694	4.47
OP54426-BS1	963176623	4.92	629956904	4.47
ZZZZZZ	1123491231	4.92	744605284	4.47
ZZZZZZ	1037811147	4.92	683204373	4.47
ZZZZZZ	1126329952	4.92	685081981	4.47
OP54426-MS	982665837	4.92	627087643	4.47
OP54426-MSD	1014125335	4.92	646078151	4.47
LB1891-1	963020119	4.92	620531054	4.47
ZZZZZZ	1028103169	4.92	652998998	4.47
ZZZZZZ	1005718328	4.92	643322535	4.47
ZZZZZZ	1030903126	4.92	652525804	4.47
ZZZZZZ	999123829	4.92	633646283	4.47
ZZZZZZ	1039927052	4.92	652041076	4.47
ZZZZZZ	951879747	4.92	614272531	4.47
ZZZZZZ	1084467752	4.92	686241923	4.47
ZZZZZZ	1048344794	4.92	725578850	4.47
ZZZZZZ	1064129634	4.92	677851790	4.47
ZZZZZZ	1010909529	4.92	635961675	4.47
ZZZZZZ	1017243593	4.92	678518070	4.47
ZZZZZZ	1460724147	4.92	775468348	4.46
ZZZZZZ	906687961	4.92	586605557	4.47
ZZZZZZ	798580851	4.92	599232251	4.47
ZZZZZZ	908819054	4.92	604393872	4.47
ZZZZZZ	945628598	4.92	684995590	4.46
JD87833-5	972687823	4.92	635755160	4.47

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Initial Cal is: G8G2430-ICC2430 8G55359.D 04/03/24 07:03. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 0.5 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -0.5 minutes of check standard.

Internal Standard Area Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2472-CC2430	**Injection Date:**	05/10/24
Lab File ID:	8G56407.D	**Injection Time:**	04:36
Instrument ID:	GC8G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal [a]	983345442	4.93	690047387	4.46
Check Std [b]	1042142584	4.92	675271441	4.47
Upper Limit [c]	1475018163	5.42	1035071081	4.97
Lower Limit [d]	491672721	4.42	345023694	3.97

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP54526-MB1	1065754715	4.92	691892702	4.47
OP54526-BS1	1031466788	4.92	676861981	4.47
OP54526-LS12	914710582	4.92	623911083	4.46
OP54526-MS	914710582	4.92	623911083	4.46
OP54526-MSD	851204654	4.92	563651275	4.47
OP54526-LB12	992314902	4.92	622212432	4.47
ZZZZZZ	1103664731	4.92	725030817	4.46
JD87790-2	888323349	4.92	590519014	4.47
ZZZZZZ	845803805	4.92	679824004	4.47
ZZZZZZ	960322649	4.92	587076924	4.47
ZZZZZZ	848769113	4.92	507754623	4.47
ZZZZZZ	968302933	4.92	584742270	4.47
ZZZZZZ	1020131646	4.92	761953615	4.47
ZZZZZZ	1060848534	4.92	655082261	4.47
ZZZZZZ	1473680069	4.92	867570936	4.46
ZZZZZZ	1078248826	4.92	1005310371	4.47
ZZZZZZ	861475611	4.92	583537376	4.47
ZZZZZZ	886325757	4.92	640401650	4.47
ZZZZZZ	989859234	4.92	903076057	4.47
ZZZZZZ	981392026	4.92	610668228	4.47
ZZZZZZ	1097425169	4.92	627832426	4.46
ZZZZZZ	979039014	4.92	599998631	4.47
ZZZZZZ	1066141261	4.92	651475320	4.47
ZZZZZZ	1123171325	4.92	687804362	4.47
ZZZZZZ	880348287	4.92	692675431	4.47
ZZZZZZ	1107524718	4.92	758718286	4.46
JD87833-11	1053488676	4.95	601827581	4.50

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Initial Cal is: G8G2430-ICC2430 8G55359.D 04/03/24 07:03. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.

Internal Standard Area Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2472-CC2430	**Injection Date:**	05/10/24
Lab File ID:	8G56407.D	**Injection Time:**	04:36
Instrument ID:	GC8G	**Method:**	SW846 8081B

Lab	IS 1		IS 2	
Sample ID	AREA	RT	AREA	RT

(c) Upper Limit = + 50% of initial standard area; Retention time + 0.5 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -0.5 minutes of check standard.

DDT/Endrin Breakdown Check

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G1G6859-DDT	**Injection Date:**	01/29/24
Lab File ID:	1G192510.D	**Injection Time:**	04:36
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	30454895	26937875
4,4'-DDE	8081068	8014062
4,4'-DDT	1465227398	1038255686
DDT Breakdown [a]	2.6 %	3.3 %
Endrin aldehyde	0	0
Endrin ketone	7264382	0
Endrin	860629168	713034344
Endrin Breakdown [b]	0.8 %	0 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G6859-IC6859	1G192513.D	01/29/24	06:02	01:26	Initial cal 1
G1G6859-IC6859	1G192514.D	01/29/24	06:18	01:42	Initial cal 2
G1G6859-IC6859	1G192515.D	01/29/24	06:35	01:59	Initial cal 5
G1G6859-IC6859	1G192516.D	01/29/24	06:51	02:15	Initial cal 10
G1G6859-ICC6859	1G192517.D	01/29/24	07:07	02:31	Initial cal 25
G1G6859-IC6859	1G192518.D	01/29/24	07:23	02:47	Initial cal 50
G1G6859-IC6859	1G192519.D	01/29/24	07:40	03:04	Initial cal 75
G1G6859-IC6859	1G192520.D	01/29/24	07:56	03:20	Initial cal 100
G1G6859-IC6859	1G192521.D	01/29/24	08:12	03:36	Initial cal 500
G1G6859-IC6859	1G192522.D	01/29/24	08:28	03:52	Initial cal 500
G1G6859-ICV6859	1G192523.D	01/29/24	08:45	04:09	Initial cal verification 25
G1G6859-ICV6859	1G192524.D	01/29/24	09:01	04:25	Initial cal verification 500
G1G6859-ICV6859	1G192525.D	01/29/24	09:17	04:41	Initial cal verification 500

DDT/Endrin Breakdown Check

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G1G7004-DDT	**Injection Date:**	05/07/24
Lab File ID:	1G196190.D	**Injection Time:**	23:05
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	12350753	14431803
4,4'-DDE	15856256	20574921
4,4'-DDT	501166449	498524795
DDT Breakdown [a]	5.3 %	6.6 %
Endrin aldehyde	1276544	1758932
Endrin ketone	2460158	2538657
Endrin	349432908	387132193
Endrin Breakdown [b]	1.1 %	1.1 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G7004-CC6859	1G196193.D	05/07/24	23:51	00:46	Continuing cal 50
OP54399-MB1	1G196195.D	05/08/24	00:24	01:20	Method Blank
OP54399-BS1	1G196196.D	05/08/24	00:40	01:35	Blank Spike
OP54399-BSD	1G196197.D	05/08/24	00:55	01:50	Blank Spike Duplicate
OP54397A-MB1	1G196198.D	05/08/24	01:10	02:05	Method Blank
OP54397-MB1	1G196198.D	05/08/24	01:10	02:06	Method Blank
OP54397A-BS1	1G196199.D	05/08/24	01:26	02:21	Blank Spike
OP54397-BS1	1G196199.D	05/08/24	01:26	02:21	Blank Spike
OP54397A-BSD	1G196200.D	05/08/24	01:41	02:36	Blank Spike Duplicate
OP54397-BSD	1G196200.D	05/08/24	01:41	02:36	Blank Spike Duplicate
ZZZZZZ	1G196201.D	05/08/24	01:56	02:51	(unrelated sample)
ZZZZZZ	1G196202.D	05/08/24	02:12	03:07	(unrelated sample)
ZZZZZZ	1G196203.D	05/08/24	02:27	03:22	(unrelated sample)
ZZZZZZ	1G196204.D	05/08/24	02:42	03:37	(unrelated sample)
ZZZZZZ	1G196205.D	05/08/24	02:57	03:53	(unrelated sample)
ZZZZZZ	1G196206.D	05/08/24	03:13	04:08	(unrelated sample)
ZZZZZZ	1G196207.D	05/08/24	03:28	04:23	(unrelated sample)
ZZZZZZ	1G196208.D	05/08/24	03:43	04:38	(unrelated sample)
ZZZZZZ	1G196209.D	05/08/24	03:59	04:54	(unrelated sample)
JD87833-17	1G196210.D	05/08/24	04:14	05:09	FIELD BLANK
ZZZZZZ	1G196211.D	05/08/24	04:29	05:24	(unrelated sample)
ZZZZZZ	1G196212.D	05/08/24	04:45	05:40	(unrelated sample)
ZZZZZZ	1G196213.D	05/08/24	05:00	05:55	(unrelated sample)
G1G7004-CC6859	1G196214.D	05/08/24	05:15	06:10	Continuing cal 25

DDT/Endrin Breakdown Check

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G1G7004-DDT	**Injection Date:**	05/07/24
Lab File ID:	1G196190.D	**Injection Time:**	23:05
Instrument ID:	GC1G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	1G196216.D	05/08/24	05:46	06:41	(unrelated sample)
ZZZZZZ	1G196217.D	05/08/24	06:01	06:56	(unrelated sample)
ZZZZZZ	1G196219.D	05/08/24	06:32	07:27	(unrelated sample)
ZZZZZZ	1G196220.D	05/08/24	06:47	07:42	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G1G7013-DDT	**Injection Date:**	05/14/24
Lab File ID:	1G196349.D	**Injection Time:**	07:22
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	11497502	11641157
4,4'-DDE	5332096	4382031
4,4'-DDT	727562927	691949661
DDT Breakdown [a]	2.3 %	2.3 %
Endrin aldehyde	2721444	788239
Endrin ketone	3736646	6690759
Endrin	435822952	470769124
Endrin Breakdown [b]	1.5 %	1.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G7013-CC6859	1G196352.D	05/14/24	08:13	00:51	Continuing cal 25
OP54558A-MB1	1G196354.D	05/14/24	08:52	01:29	Method Blank
OP54558A-BS1	1G196355.D	05/14/24	09:07	01:45	Blank Spike
OP54558A-BSD	1G196356.D	05/14/24	09:22	02:00	Blank Spike Duplicate
OP54558A-BS13	1G196357.D	05/14/24	09:38	02:15	Blank Spike
OP54558A-BS14	1G196358.D	05/14/24	09:53	02:31	Blank Spike
OP54554-MB1	1G196359.D	05/14/24	10:08	02:46	Method Blank
OP54554A-MB1	1G196359.D	05/14/24	10:08	02:46	Method Blank
OP54554-BS1	1G196360.D	05/14/24	10:24	03:02	Blank Spike
OP54554A-BS1	1G196360.D	05/14/24	10:24	03:02	Blank Spike
OP54554-BSD	1G196361.D	05/14/24	10:39	03:17	Blank Spike Duplicate
OP54554A-BSD	1G196361.D	05/14/24	10:39	03:17	Blank Spike Duplicate
OP54554A-BS13	1G196362.D	05/14/24	10:54	03:32	Blank Spike
OP54554A-BS14	1G196363.D	05/14/24	11:10	03:48	Blank Spike
ZZZZZZ	1G196364.D	05/14/24	11:25	04:03	(unrelated sample)
ZZZZZZ	1G196365.D	05/14/24	11:41	04:18	(unrelated sample)
ZZZZZZ	1G196366.D	05/14/24	11:56	04:33	(unrelated sample)
ZZZZZZ	1G196367.D	05/14/24	12:11	04:48	(unrelated sample)
ZZZZZZ	1G196368.D	05/14/24	12:27	05:04	(unrelated sample)
ZZZZZZ	1G196369.D	05/14/24	12:42	05:20	(unrelated sample)
G1G7013-CC6859	1G196372.D	05/14/24	13:28	06:06	Continuing cal 50

DDT/Endrin Breakdown Check

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G1G7016-DDT	**Injection Date:**	05/15/24
Lab File ID:	1G196427.D	**Injection Time:**	10:21
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	7831981	7481398
4,4'-DDE	2829673	4627931
4,4'-DDT	638701903	661221788
DDT Breakdown [a]	1.6 %	1.8 %
Endrin aldehyde	0	0
Endrin ketone	2941329	2146229
Endrin	400868933	458850832
Endrin Breakdown [b]	0.7 %	0.5 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G7016-CC6859	1G196428.D	05/15/24	10:36	00:15	Continuing cal 25
ZZZZZZ	1G196430.D	05/15/24	11:33	01:13	(unrelated sample)
JD87833-17R	1G196431.D	05/15/24	11:49	01:28	FIELD BLANK
ZZZZZZ	1G196433.D	05/15/24	12:19	01:58	(unrelated sample)
ZZZZZZ	1G196434.D	05/15/24	12:35	02:14	(unrelated sample)
ZZZZZZ	1G196435.D	05/15/24	12:50	02:30	(unrelated sample)
G1G7016-CC6859	1G196437.D	05/15/24	13:42	03:21	Continuing cal 50
OP54620A-MB1	1G196439.D	05/15/24	14:13	03:53	Method Blank
OP54620-MB1	1G196439.D	05/15/24	14:13	03:53	Method Blank
OP54620-BS1	1G196440.D	05/15/24	14:29	04:08	Blank Spike
OP54620A-BS1	1G196440.D	05/15/24	14:29	04:08	Blank Spike
OP54620A-BSD	1G196441.D	05/15/24	14:44	04:23	Blank Spike Duplicate
OP54554A-MB2	1G196442.D	05/15/24	14:59	04:39	Method Blank
OP54554A-BS2	1G196443.D	05/15/24	15:15	04:54	Blank Spike
OP54554A-BSD2	1G196444.D	05/15/24	15:30	05:09	Blank Spike Duplicate
OP54554A-BS132	1G196445.D	05/15/24	15:45	05:25	Blank Spike
OP54554A-BS142	1G196446.D	05/15/24	16:01	05:40	Blank Spike
OP54620-MS	1G196447.D	05/15/24	16:16	05:56	Matrix Spike
OP54620-MSD	1G196448.D	05/15/24	16:31	06:11	Matrix Spike Duplicate
LB2107-14	1G196449.D	05/15/24	16:47	06:26	(used for QC only; not part of job JD87833)
ZZZZZZ	1G196450.D	05/15/24	17:02	06:42	(unrelated sample)
ZZZZZZ	1G196451.D	05/15/24	17:18	06:57	(unrelated sample)
ZZZZZZ	1G196452.D	05/15/24	17:33	07:12	(unrelated sample)
G1G7016-CC6859	1G196453.D	05/15/24	17:48	07:28	Continuing cal 25

DDT/Endrin Breakdown Check

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G8G2430-DDT	**Injection Date:**	04/03/24
Lab File ID:	8G55351.D	**Injection Time:**	00:00
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	10502101	55857861
4,4'-DDE	0	0
4,4'-DDT	1238405481	1682091445
DDT Breakdown [a]	0.8 %	3.2 %
Endrin aldehyde	18535388	10530139
Endrin ketone	15561254	21297902
Endrin	717631228	1231582580
Endrin Breakdown [b]	4.5 %	2.5 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G2430-IC2430	8G55356.D	04/03/24	05:57	05:57	Initial cal 0.2
G8G2430-IC2430	8G55357.D	04/03/24	06:19	06:19	Initial cal 0.5
G8G2430-IC2430	8G55358.D	04/03/24	06:41	06:41	Initial cal 1
G8G2430-ICC2430	8G55359.D	04/03/24	07:03	07:03	Initial cal 2.5
G8G2430-IC2430	8G55360.D	04/03/24	07:24	07:24	Initial cal 5.0
G8G2430-IC2430	8G55361.D	04/03/24	07:46	07:46	Initial cal 7.5
G8G2430-IC2430	8G55362.D	04/03/24	08:08	08:08	Initial cal 10
G8G2430-IC2430	8G55363.D	04/03/24	08:30	08:30	Initial cal 50
G8G2430-IC2430	8G55364.D	04/03/24	08:52	08:52	Initial cal 50
G8G2430-ICV2430	8G55365.D	04/03/24	09:13	09:13	Initial cal verification 2.5
G8G2430-ICV2430	8G55366.D	04/03/24	09:35	09:35	Initial cal verification 50
G8G2430-ICV2430	8G55367.D	04/03/24	09:57	09:57	Initial cal verification 50

DDT/Endrin Breakdown Check

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G8G2470-DDT	**Injection Date:**	05/09/24
Lab File ID:	8G56334.D	**Injection Time:**	00:15
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	125681860	279263845
4,4'-DDE	13489876	20776611
4,4'-DDT	1014491207	1735673271
DDT Breakdown [a]	12.1 %	14.7 %
Endrin aldehyde	10144297	18849774
Endrin ketone	25080209	46897645
Endrin	741629214	1204909074
Endrin Breakdown [b]	4.5 %	5.2 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G2470-CC2430	8G56335.D	05/09/24	00:37	00:22	Continuing cal 2.5
OP54452-MB1	8G56337.D	05/09/24	01:20	01:05	Method Blank
OP54452-BS1	8G56338.D	05/09/24	01:42	01:27	Blank Spike
ZZZZZZ	8G56339.D	05/09/24	02:04	01:49	(unrelated sample)
ZZZZZZ	8G56341.D	05/09/24	02:47	02:32	(unrelated sample)
ZZZZZZ	8G56342.D	05/09/24	03:09	02:54	(unrelated sample)
ZZZZZZ	8G56343.D	05/09/24	03:31	03:16	(unrelated sample)
ZZZZZZ	8G56344.D	05/09/24	03:52	03:37	(unrelated sample)
ZZZZZZ	8G56345.D	05/09/24	04:14	03:59	(unrelated sample)
ZZZZZZ	8G56346.D	05/09/24	04:36	04:21	(unrelated sample)
ZZZZZZ	8G56347.D	05/09/24	04:58	04:43	(unrelated sample)
OP54452-MS	8G56349.D	05/09/24	05:41	05:26	Matrix Spike
OP54452-MSD	8G56350.D	05/09/24	06:03	05:48	Matrix Spike Duplicate
JD87833-1	8G56351.D	05/09/24	06:24	06:09	SB-1
JD87833-3	8G56352.D	05/09/24	06:46	06:31	SB-3
JD87833-4	8G56353.D	05/09/24	07:08	06:53	SB-4
JD87833-7	8G56355.D	05/09/24	07:52	07:37	SB-7
JD87833-8	8G56356.D	05/09/24	08:13	07:58	SB-8
JD87833-10	8G56357.D	05/09/24	08:35	08:20	SB-10
JD87833-12	8G56359.D	05/09/24	09:19	09:04	SB-12
JD87833-14	8G56360.D	05/09/24	09:40	09:25	SB-14
JD87833-15	8G56361.D	05/09/24	10:02	09:47	DUPE 1
JD87833-16	8G56362.D	05/09/24	10:24	10:09	DUPE 2
JD87772-1	8G56363.D	05/09/24	10:45	10:30	(used for QC only; not part of job JD87833)

DDT/Endrin Breakdown Check

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G8G2470-DDT	**Injection Date:**	05/09/24
Lab File ID:	8G56334.D	**Injection Time:**	00:15
Instrument ID:	GC8G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	8G56364.D	05/09/24	11:07	10:52	(unrelated sample)
ZZZZZZ	8G56365.D	05/09/24	11:29	11:14	(unrelated sample)
ZZZZZZ	8G56366.D	05/09/24	11:50	11:35	(unrelated sample)
ZZZZZZ	8G56367.D	05/09/24	12:12	11:57	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G8G2471-DDT	**Injection Date:**	05/09/24
Lab File ID:	8G56373.D	**Injection Time:**	15:09
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	119488654	221963711
4,4'-DDE	10504391	15731545
4,4'-DDT	1089426066	1690111074
DDT Breakdown [a]	10.7 %	12.3 %
Endrin aldehyde	5644719	9232589
Endrin ketone	20278873	30748165
Endrin	771918556	1077798378
Endrin Breakdown [b]	3.2 %	3.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G2471-CC2430	8G56374.D	05/09/24	15:31	00:22	Continuing cal 5
OP54426-MB1	8G56377.D	05/09/24	16:44	01:35	Method Blank
OP54426-BS1	8G56378.D	05/09/24	17:06	01:57	Blank Spike
ZZZZZZ	8G56379.D	05/09/24	17:28	02:19	(unrelated sample)
ZZZZZZ	8G56380.D	05/09/24	17:50	02:41	(unrelated sample)
ZZZZZZ	8G56381.D	05/09/24	18:11	03:02	(unrelated sample)
OP54426-MS	8G56382.D	05/09/24	18:33	03:24	Matrix Spike
OP54426-MSD	8G56383.D	05/09/24	18:55	03:46	Matrix Spike Duplicate
LB1891-1	8G56384.D	05/09/24	19:17	04:08	(used for QC only; not part of job JD87833)
ZZZZZZ	8G56385.D	05/09/24	19:39	04:30	(unrelated sample)
ZZZZZZ	8G56386.D	05/09/24	20:00	04:51	(unrelated sample)
ZZZZZZ	8G56387.D	05/09/24	20:22	05:13	(unrelated sample)
ZZZZZZ	8G56388.D	05/09/24	20:44	05:35	(unrelated sample)
ZZZZZZ	8G56389.D	05/09/24	21:05	05:56	(unrelated sample)
ZZZZZZ	8G56390.D	05/09/24	21:27	06:18	(unrelated sample)
ZZZZZZ	8G56391.D	05/09/24	21:49	06:40	(unrelated sample)
ZZZZZZ	8G56392.D	05/09/24	22:10	07:01	(unrelated sample)
ZZZZZZ	8G56393.D	05/09/24	22:32	07:23	(unrelated sample)
ZZZZZZ	8G56394.D	05/09/24	22:54	07:45	(unrelated sample)
ZZZZZZ	8G56395.D	05/09/24	23:16	08:07	(unrelated sample)
ZZZZZZ	8G56396.D	05/09/24	23:37	08:28	(unrelated sample)
ZZZZZZ	8G56397.D	05/09/24	23:59	08:50	(unrelated sample)
ZZZZZZ	8G56398.D	05/10/24	00:21	09:12	(unrelated sample)
ZZZZZZ	8G56399.D	05/10/24	00:43	09:34	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G8G2471-DDT	**Injection Date:**	05/09/24
Lab File ID:	8G56373.D	**Injection Time:**	15:09
Instrument ID:	GC8G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	8G56400.D	05/10/24	01:05	09:56	(unrelated sample)
JD87833-5	8G56401.D	05/10/24	01:27	10:18	SB-5

DDT/Endrin Breakdown Check

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G8G2472-DDT	**Injection Date:**	05/10/24
Lab File ID:	8G56406.D	**Injection Time:**	04:14
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	116408772	232392567
4,4'-DDE	12302224	17988304
4,4'-DDT	1128025545	1843270843
DDT Breakdown [a]	10.2 %	12 %
Endrin aldehyde	6381146	10720443
Endrin ketone	22635551	36292047
Endrin	768210519	1133842516
Endrin Breakdown [b]	3.6 %	4 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G2472-CC2430	8G56407.D	05/10/24	04:36	00:22	Continuing cal 2.5
OP54526-MB1	8G56409.D	05/10/24	05:20	01:06	Method Blank
OP54526-BS1	8G56410.D	05/10/24	05:41	01:27	Blank Spike
OP54526-MS	8G56411.D	05/10/24	06:03	01:49	Matrix Spike
OP54526-LS12	8G56411.D	05/10/24	06:03	01:49	Leachate Spike
OP54526-MSD	8G56412.D	05/10/24	06:25	02:11	Matrix Spike Duplicate
OP54526-LB12	8G56413.D	05/10/24	06:47	02:33	Leachate Blank
ZZZZZZ	8G56414.D	05/10/24	07:09	02:55	(unrelated sample)
JD87790-2	8G56415.D	05/10/24	07:31	03:17	(used for QC only; not part of job JD87833)
ZZZZZZ	8G56416.D	05/10/24	07:53	03:39	(unrelated sample)
ZZZZZZ	8G56417.D	05/10/24	08:15	04:01	(unrelated sample)
ZZZZZZ	8G56418.D	05/10/24	08:37	04:23	(unrelated sample)
ZZZZZZ	8G56419.D	05/10/24	08:58	04:44	(unrelated sample)
ZZZZZZ	8G56420.D	05/10/24	09:20	05:06	(unrelated sample)
ZZZZZZ	8G56421.D	05/10/24	09:42	05:28	(unrelated sample)
ZZZZZZ	8G56422.D	05/10/24	10:04	05:50	(unrelated sample)
ZZZZZZ	8G56423.D	05/10/24	10:26	06:12	(unrelated sample)
ZZZZZZ	8G56424.D	05/10/24	10:48	06:34	(unrelated sample)
ZZZZZZ	8G56425.D	05/10/24	11:10	06:56	(unrelated sample)
ZZZZZZ	8G56426.D	05/10/24	11:31	07:17	(unrelated sample)
ZZZZZZ	8G56427.D	05/10/24	11:53	07:39	(unrelated sample)
ZZZZZZ	8G56428.D	05/10/24	12:15	08:01	(unrelated sample)
ZZZZZZ	8G56429.D	05/10/24	12:37	08:23	(unrelated sample)
ZZZZZZ	8G56430.D	05/10/24	12:59	08:45	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G8G2472-DDT	**Injection Date:**	05/10/24
Lab File ID:	8G56406.D	**Injection Time:**	04:14
Instrument ID:	GC8G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	8G56431.D	05/10/24	13:21	09:07	(unrelated sample)
ZZZZZZ	8G56432.D	05/10/24	13:42	09:28	(unrelated sample)
ZZZZZZ	8G56433.D	05/10/24	14:04	09:50	(unrelated sample)
JD87833-11	8G56434.D	05/10/24	15:41	11:27	SB-11

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7004-CC6859	**Injection Date:**	05/07/24
Lab File ID:	1G196193.D	**Injection Time:**	23:51
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	JD87833-17	**Injection Date:**	05/08/24
Lab File ID:	1G196210.D	**Injection Time:**	04:14
Client ID:	FIELD BLANK		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
4,4'-DDT	1 [a]	5.24	5.23	0.020	B	ug/l	9.5
4,4'-DDT	2	6.13	6.13	0.022		ug/l	

(a) Final result reported from this column.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7016-CC6859	**Injection Date:**	05/15/24
Lab File ID:	1G196428.D	**Injection Time:**	10:36
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	JD87833-17R	**Injection Date:**	05/15/24
Lab File ID:	1G196431.D	**Injection Time:**	11:49
Client ID:	FIELD BLANK		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
4,4'-DDT	1 [a]	5.25	5.23	0.0048	J	ug/l	20.6
4,4'-DDT	2	6.13	6.13	0.0059	J	ug/l	

(a) Final result reported from this column.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7004-CC6859	**Injection Date:**	05/07/24
Lab File ID:	1G196193.D	**Injection Time:**	23:51
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP54399-BS1	**Injection Date:**	05/08/24
Lab File ID:	1G196196.D	**Injection Time:**	00:40
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	2.99	2.99	0.12		ug/l	0.0
Aldrin	2	3.33	3.33	0.12		ug/l	
alpha-BHC	1	2.07	2.07	0.14		ug/l	0.0
alpha-BHC	2 [a]	2.21	2.21	0.14		ug/l	
beta-BHC	1	2.40	2.40	0.14		ug/l	15.4
beta-BHC	2 [a]	2.62	2.61	0.12		ug/l	
delta-BHC	1	2.56	2.55	0.11		ug/l	9.5
delta-BHC	2 [a]	2.91	2.91	0.10		ug/l	
gamma-BHC (Lindane)	1 [a]	2.31	2.31	0.13		ug/l	0.0
gamma-BHC (Lindane)	2	2.53	2.53	0.13		ug/l	
alpha-Chlordane	1	3.92	3.92	0.14		ug/l	7.4
alpha-Chlordane	2 [a]	4.48	4.48	0.13		ug/l	
gamma-Chlordane	1	3.77	3.77	0.13		ug/l	0.0
gamma-Chlordane	2 [a]	4.28	4.28	0.13		ug/l	
Chlordane (alpha and gamma)	n/a [b]			0.27		ug/l	
Dieldrin	1	4.38	4.38	0.15		ug/l	6.9
Dieldrin	2 [a]	4.94	4.94	0.14		ug/l	
4,4'-DDD	1	4.85	4.85	0.14		ug/l	0.0
4,4'-DDD	2 [a]	5.63	5.63	0.14		ug/l	
4,4'-DDE	1 [a]	4.05	4.05	0.11		ug/l	16.7
4,4'-DDE	2	4.74	4.74	0.13		ug/l	
4,4'-DDT	1	5.24	5.23	0.15		ug/l	0.0
4,4'-DDT	2 [a]	6.13	6.13	0.15		ug/l	
Endrin	1	4.69	4.69	0.15		ug/l	6.9
Endrin	2 [a]	5.39	5.39	0.14		ug/l	
Endosulfan sulfate	1 [a]	6.29	6.28	0.12		ug/l	0.0
Endosulfan sulfate	2	6.76	6.76	0.12		ug/l	
Endrin aldehyde	1	5.62	5.61	0.12		ug/l	0.0
Endrin aldehyde	2 [a]	6.28	6.28	0.12		ug/l	
Endrin ketone	1	6.74	6.73	0.12		ug/l	0.0
Endrin ketone	2 [a]	7.67	7.66	0.12		ug/l	
Endosulfan-I	1	4.08	4.08	0.16		ug/l	20.7
Endosulfan-I	2 [a]	4.55	4.55	0.13		ug/l	
Endosulfan-II	1	5.01	5.01	0.14		ug/l	7.4
Endosulfan-II	2 [a]	5.74	5.74	0.13		ug/l	
Heptachlor	1 [a]	2.71	2.71	0.12		ug/l	8.0
Heptachlor	2	2.97	2.97	0.13		ug/l	
Heptachlor epoxide	1	3.62	3.62	0.14		ug/l	7.4
Heptachlor epoxide	2 [a]	4.02	4.02	0.13		ug/l	
Methoxychlor	1	6.04	6.03	0.15		ug/l	6.9
Methoxychlor	2 [a]	7.35	7.35	0.14		ug/l	

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7004-CC6859	**Injection Date:**	05/07/24
Lab File ID:	1G196193.D	**Injection Time:**	23:51
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP54399-BS1	**Injection Date:**	05/08/24
Lab File ID:	1G196196.D	**Injection Time:**	00:40
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7013-CC6859	**Injection Date:**	05/14/24
Lab File ID:	1G196352.D	**Injection Time:**	08:13
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP54554-BS1	**Injection Date:**	05/14/24
Lab File ID:	1G196360.D	**Injection Time:**	10:24
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	2.98	2.99	0.16		ug/l	0.0
Aldrin	2	3.32	3.33	0.16		ug/l	
alpha-BHC	1	2.06	2.06	0.17		ug/l	0.0
alpha-BHC	2 [a]	2.20	2.20	0.17		ug/l	
beta-BHC	1 [a]	2.39	2.39	0.18		ug/l	5.4
beta-BHC	2	2.61	2.61	0.19		ug/l	
delta-BHC	1	2.54	2.55	0.19		ug/l	5.4
delta-BHC	2 [a]	2.91	2.91	0.18		ug/l	
gamma-BHC (Lindane)	1 [a]	2.30	2.31	0.17		ug/l	5.7
gamma-BHC (Lindane)	2	2.52	2.52	0.18		ug/l	
alpha-Chlordane	1	3.92	3.93	0.18		ug/l	11.8
alpha-Chlordane	2 [a]	4.47	4.47	0.16		ug/l	
gamma-Chlordane	1	3.76	3.77	0.19		ug/l	5.4
gamma-Chlordane	2 [a]	4.27	4.28	0.18		ug/l	
Chlordane (alpha and gamma)	n/a [b]			0.34		ug/l	
Dieldrin	1	4.38	4.39	0.20		ug/l	5.1
Dieldrin	2 [a]	4.93	4.94	0.19		ug/l	
4,4'-DDD	1 [a]	4.83	4.84	0.19		ug/l	5.1
4,4'-DDD	2	5.62	5.62	0.20		ug/l	
4,4'-DDE	1	4.04	4.04	0.17		ug/l	6.1
4,4'-DDE	2 [a]	4.73	4.73	0.16		ug/l	
4,4'-DDT	1 [a]	5.22	5.23	0.23		ug/l	0.0
4,4'-DDT	2	6.12	6.12	0.23		ug/l	
Endrin	1 [a]	4.68	4.69	0.19		ug/l	0.0
Endrin	2	5.38	5.39	0.19		ug/l	
Endosulfan sulfate	1 [a]	6.27	6.28	0.19		ug/l	5.1
Endosulfan sulfate	2	6.75	6.75	0.20		ug/l	
Endrin aldehyde	1	5.60	5.61	0.22		ug/l	20.0
Endrin aldehyde	2 [a]	6.27	6.28	0.18		ug/l	
Endrin ketone	1	6.72	6.73	0.21		ug/l	4.9
Endrin ketone	2 [a]	7.66	7.66	0.20		ug/l	
Endosulfan-I	1	4.07	4.09	0.20		ug/l	16.2
Endosulfan-I	2 [a]	4.54	4.55	0.17		ug/l	
Endosulfan-II	1	4.99	5.01	0.19		ug/l	0.0
Endosulfan-II	2 [a]	5.73	5.73	0.19		ug/l	
Heptachlor	1	2.70	2.71	0.17		ug/l	0.0
Heptachlor	2 [a]	2.97	2.97	0.17		ug/l	
Heptachlor epoxide	1	3.61	3.62	0.19		ug/l	5.4
Heptachlor epoxide	2 [a]	4.02	4.02	0.18		ug/l	
Methoxychlor	1 [a]	6.02	6.02	0.20		ug/l	22.2
Methoxychlor	2	7.34	7.34	0.25		ug/l	

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7013-CC6859	**Injection Date:**	05/14/24
Lab File ID:	1G196352.D	**Injection Time:**	08:13
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP54554-BS1	**Injection Date:**	05/14/24
Lab File ID:	1G196360.D	**Injection Time:**	10:24
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7004-CC6859	**Injection Date:**	05/07/24
Lab File ID:	1G196193.D	**Injection Time:**	23:51
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP54399-BSD	**Injection Date:**	05/08/24
Lab File ID:	1G196197.D	**Injection Time:**	00:55
Client ID:	Blank Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	2.99	2.99	0.12		ug/l	8.0
Aldrin	2	3.33	3.33	0.13		ug/l	
alpha-BHC	1	2.07	2.07	0.15		ug/l	0.0
alpha-BHC	2 [a]	2.21	2.21	0.15		ug/l	
beta-BHC	1	2.40	2.40	0.14		ug/l	7.4
beta-BHC	2 [a]	2.62	2.61	0.13		ug/l	
delta-BHC	1	2.56	2.55	0.11		ug/l	0.0
delta-BHC	2 [a]	2.92	2.91	0.11		ug/l	
gamma-BHC (Lindane)	1 [a]	2.31	2.31	0.14		ug/l	0.0
gamma-BHC (Lindane)	2	2.53	2.53	0.14		ug/l	
alpha-Chlordane	1	3.92	3.92	0.14		ug/l	0.0
alpha-Chlordane	2 [a]	4.48	4.48	0.14		ug/l	
gamma-Chlordane	1	3.77	3.77	0.14		ug/l	0.0
gamma-Chlordane	2 [a]	4.28	4.28	0.14		ug/l	
Chlordane (alpha and gamma)	n/a [b]			0.28		ug/l	
Dieldrin	1	4.38	4.38	0.15		ug/l	0.0
Dieldrin	2 [a]	4.94	4.94	0.15		ug/l	
4,4'-DDD	1 [a]	4.85	4.85	0.14		ug/l	0.0
4,4'-DDD	2	5.63	5.63	0.14		ug/l	
4,4'-DDE	1 [a]	4.05	4.05	0.12		ug/l	8.0
4,4'-DDE	2	4.74	4.74	0.13		ug/l	
4,4'-DDT	1 [a]	5.24	5.23	0.17		ug/l	0.0
4,4'-DDT	2	6.13	6.13	0.17		ug/l	
Endrin	1	4.69	4.69	0.15		ug/l	0.0
Endrin	2 [a]	5.39	5.39	0.15		ug/l	
Endosulfan sulfate	1	6.29	6.28	0.13		ug/l	0.0
Endosulfan sulfate	2 [a]	6.76	6.76	0.13		ug/l	
Endrin aldehyde	1	5.61	5.61	0.13		ug/l	0.0
Endrin aldehyde	2 [a]	6.28	6.28	0.13		ug/l	
Endrin ketone	1	6.73	6.73	0.13		ug/l	8.0
Endrin ketone	2 [a]	7.66	7.66	0.12		ug/l	
Endosulfan-I	1	4.08	4.08	0.16		ug/l	13.3
Endosulfan-I	2 [a]	4.55	4.55	0.14		ug/l	
Endosulfan-II	1	5.01	5.01	0.15		ug/l	6.9
Endosulfan-II	2 [a]	5.74	5.74	0.14		ug/l	
Heptachlor	1 [a]	2.71	2.71	0.13		ug/l	0.0
Heptachlor	2	2.97	2.97	0.13		ug/l	
Heptachlor epoxide	1	3.62	3.62	0.15		ug/l	6.9
Heptachlor epoxide	2 [a]	4.02	4.02	0.14		ug/l	
Methoxychlor	1	6.03	6.03	0.16		ug/l	6.5
Methoxychlor	2 [a]	7.35	7.35	0.15		ug/l	

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7004-CC6859	**Injection Date:**	05/07/24
Lab File ID:	1G196193.D	**Injection Time:**	23:51
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP54399-BSD	**Injection Date:**	05/08/24
Lab File ID:	1G196197.D	**Injection Time:**	00:55
Client ID:	Blank Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7013-CC6859	**Injection Date:**	05/14/24
Lab File ID:	1G196352.D	**Injection Time:**	08:13
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP54554-BSD	**Injection Date:**	05/14/24
Lab File ID:	1G196361.D	**Injection Time:**	10:39
Client ID:	Blank Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	2.98	2.99	0.086		ug/l	2.3
Aldrin	2	3.33	3.33	0.088		ug/l	
alpha-BHC	1 [a]	2.06	2.06	0.086		ug/l	4.5
alpha-BHC	2	2.20	2.20	0.090		ug/l	
beta-BHC	1	2.39	2.39	0.093		ug/l	13.8
beta-BHC	2 [a]	2.61	2.61	0.081		ug/l	
delta-BHC	1	2.54	2.55	0.11		ug/l	11.5
delta-BHC	2 [a]	2.91	2.91	0.098		ug/l	
gamma-BHC (Lindane)	1 [a]	2.30	2.31	0.092		ug/l	5.3
gamma-BHC (Lindane)	2	2.52	2.52	0.097		ug/l	
alpha-Chlordane	1	3.92	3.93	0.10		ug/l	3.0
alpha-Chlordane	2 [a]	4.47	4.47	0.097		ug/l	
gamma-Chlordane	1	3.76	3.77	0.10		ug/l	1.0
gamma-Chlordane	2 [a]	4.27	4.28	0.099		ug/l	
Chlordane (alpha and gamma)	n/a [b]			0.20		ug/l	
Dieldrin	1	4.38	4.39	0.11		ug/l	0.0
Dieldrin	2 [a]	4.94	4.94	0.11		ug/l	
4,4'-DDD	1 [a]	4.84	4.84	0.11		ug/l	0.0
4,4'-DDD	2	5.62	5.62	0.11		ug/l	
4,4'-DDE	1	4.04	4.04	0.091		ug/l	3.4
4,4'-DDE	2 [a]	4.73	4.73	0.088		ug/l	
4,4'-DDT	1 [a]	5.22	5.23	0.12		ug/l	0.0
4,4'-DDT	2	6.12	6.12	0.12		ug/l	
Endrin	1	4.68	4.69	0.11		ug/l	0.0
Endrin	2 [a]	5.39	5.39	0.11		ug/l	
Endosulfan sulfate	1	6.28	6.28	0.11		ug/l	0.0
Endosulfan sulfate	2 [a]	6.75	6.75	0.11		ug/l	
Endrin aldehyde	1	5.60	5.61	0.11		ug/l	9.5
Endrin aldehyde	2 [a]	6.28	6.28	0.10		ug/l	
Endrin ketone	1	6.72	6.73	0.12		ug/l	8.7
Endrin ketone	2 [a]	7.66	7.66	0.11		ug/l	
Endosulfan-I	1	4.08	4.09	0.12		ug/l	19.2
Endosulfan-I	2 [a]	4.55	4.55	0.099		ug/l	
Endosulfan-II	1	5.00	5.01	0.11		ug/l	0.0
Endosulfan-II	2 [a]	5.73	5.73	0.11		ug/l	
Heptachlor	1 [a]	2.70	2.71	0.091		ug/l	2.2
Heptachlor	2	2.97	2.97	0.093		ug/l	
Heptachlor epoxide	1	3.61	3.62	0.10		ug/l	0.0
Heptachlor epoxide	2 [a]	4.02	4.02	0.10		ug/l	
Methoxychlor	1 [a]	6.02	6.02	0.12		ug/l	0.0
Methoxychlor	2	7.35	7.34	0.12		ug/l	

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7013-CC6859	**Injection Date:**	05/14/24
Lab File ID:	1G196352.D	**Injection Time:**	08:13
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP54554-BSD	**Injection Date:**	05/14/24
Lab File ID:	1G196361.D	**Injection Time:**	10:39
Client ID:	Blank Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G3G5173-CC5160	**Injection Date:**	05/08/24
Lab File ID:	3G141327.D	**Injection Time:**	00:33
Instrument ID:	GC3G	**Method:**	SW846 8082A

Sample ID:	OP54400-BS1	**Injection Date:**	05/08/24
Lab File ID:	3G141338.D	**Injection Time:**	03:36
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1			1.2		ug/l	26.4
Aroclor 1016	2 [a]			0.92		ug/l	
AR1016-B	1	4.33	4.33	1.2		ug/l	
AR1016-B	2	5.32	5.31	1.0		ug/l	
AR1016-C	1	4.93	4.93	1.2		ug/l	
AR1016-C	2	5.98	5.97	0.88		ug/l	
AR1016-D	1	5.10	5.11	1.1		ug/l	
AR1016-D	2	6.17	6.16	0.88		ug/l	
Aroclor 1260	1			0.86		ug/l	19.1
Aroclor 1260	2 [a]			0.71		ug/l	
AR1260-B	1	8.24	8.25	0.88		ug/l	
AR1260-B	2	9.58	9.58	0.73		ug/l	
AR1260-C	1	8.59	8.59	0.85		ug/l	
AR1260-C	2	10.02	10.02	0.68		ug/l	
AR1260-D	1	9.02	9.03	0.86		ug/l	
AR1260-D	2	10.36	10.36	0.71		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G3G5173-CC5160	**Injection Date:**	05/08/24
Lab File ID:	3G141327.D	**Injection Time:**	00:33
Instrument ID:	GC3G	**Method:**	SW846 8082A

Sample ID:	OP54400-BSD	**Injection Date:**	05/08/24
Lab File ID:	3G141339.D	**Injection Time:**	03:53
Client ID:	Blank Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1			1.2		ug/l	8.7
Aroclor 1016	2 [a]			1.1		ug/l	
AR1016-B	1	4.33	4.33	1.2		ug/l	
AR1016-B	2	5.32	5.31	1.1		ug/l	
AR1016-C	1	4.93	4.93	1.2		ug/l	
AR1016-C	2	5.98	5.97	1.0		ug/l	
AR1016-D	1	5.10	5.11	1.1		ug/l	
AR1016-D	2	6.17	6.16	1.1		ug/l	
Aroclor 1260	1			1.0		ug/l	16.2
Aroclor 1260	2 [a]			0.85		ug/l	
AR1260-B	1	8.24	8.25	1.0		ug/l	
AR1260-B	2	9.58	9.58	0.94		ug/l	
AR1260-C	1	8.59	8.59	1.1		ug/l	
AR1260-C	2	10.02	10.02	0.83		ug/l	
AR1260-D	1	9.02	9.03	0.99		ug/l	
AR1260-D	2	10.36	10.36	0.78		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2470-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56335.D	**Injection Time:**	00:37
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	JD87833-1	**Injection Date:**	05/09/24
Lab File ID:	8G56351.D	**Injection Time:**	06:24
Client ID:	SB-1		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	7.52	7.55	0.0012		mg/kg	85.7
alpha-Chlordane [a]	2 [b]	9.06	9.07	0.00048	J	mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.00048	J	mg/kg	
Dieldrin	1	8.01	8.02	0.00055		mg/kg	24.5
Dieldrin	2 [b]	9.57	9.58	0.00043	J	mg/kg	
4,4'-DDD	1 [b]	8.43	8.46	0.0015		mg/kg	6.5
4,4'-DDD	2	10.25	10.26	0.0016		mg/kg	
4,4'-DDE	1	7.66	7.68	0.0027		mg/kg	7.7
4,4'-DDE	2 [b]	9.33	9.33	0.0025		mg/kg	
4,4'-DDT [d]	1	8.83	8.85	0.0013		mg/kg	51.4
4,4'-DDT [e]	2 [b]	10.77	10.78	0.0022		mg/kg	
Heptachlor epoxide	1	7.23	7.24	0.00043	J	mg/kg	20.5
Heptachlor epoxide	2 [b]	8.56	8.57	0.00035	J	mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Associated CCV outside of control limits low.
(e) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2470-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56335.D	**Injection Time:**	00:37
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	JD87833-3	**Injection Date:**	05/09/24
Lab File ID:	8G56352.D	**Injection Time:**	06:46
Client ID:	SB-3		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
beta-BHC	1	5.90	5.91	0.0022		mg/kg	177.7
beta-BHC [a]	2 [b]	6.90	6.89	0.00013	JB	mg/kg	
alpha-Chlordane	1	7.54	7.55	0.0012		mg/kg	20.2
alpha-Chlordane	2 [b]	9.06	9.07	0.00098		mg/kg	
gamma-Chlordane	1	7.38	7.40	0.00071		mg/kg	32.8
gamma-Chlordane	2 [b]	8.84	8.85	0.00051		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.0015		mg/kg	
Dieldrin [a]	1 [b]	8.01	8.02	0.00012	J	mg/kg	82.9
Dieldrin [a]	2	9.56	9.58	0.00029	J	mg/kg	
4,4'-DDD	1	8.43	8.46	0.00093		mg/kg	16.3
4,4'-DDD	2 [b]	10.25	10.26	0.00079		mg/kg	
4,4'-DDE	1	7.66	7.68	0.00068		mg/kg	40.7
4,4'-DDE [a]	2 [b]	9.32	9.33	0.00045		mg/kg	
4,4'-DDT [d]	1	8.82	8.85	0.0020		mg/kg	58.1
4,4'-DDT [a]	2 [b]	10.77	10.78	0.0011		mg/kg	
Heptachlor epoxide	1	7.23	7.24	0.00069		mg/kg	117.2
Heptachlor epoxide [a]	2 [b]	8.57	8.57	0.00018	J	mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Associated CCV outside of control limits low.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2470-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56335.D	**Injection Time:**	00:37
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	JD87833-4	**Injection Date:**	05/09/24
Lab File ID:	8G56353.D	**Injection Time:**	07:08
Client ID:	SB-4		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
beta-BHC	1	5.91	5.91	0.0020		mg/kg	173.8
beta-BHC [a]	2 [b]	6.90	6.89	0.00014	JB	mg/kg	
alpha-Chlordane	1	7.54	7.55	0.0012		mg/kg	0.0
alpha-Chlordane	2 [b]	9.07	9.07	0.0012		mg/kg	
gamma-Chlordane	1	7.39	7.40	0.00057		mg/kg	21.4
gamma-Chlordane	2 [b]	8.85	8.85	0.00046		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.0017		mg/kg	
Dieldrin	1 [b]	8.01	8.02	0.00021	J	mg/kg	28.6
Dieldrin	2	9.57	9.58	0.00028	J	mg/kg	
4,4'-DDD	1	8.44	8.46	0.00061		mg/kg	41.6
4,4'-DDD [a]	2 [b]	10.25	10.26	0.00040	J	mg/kg	
4,4'-DDE	1	7.66	7.68	0.00027	J	mg/kg	63.4
4,4'-DDE [a]	2 [b]	9.33	9.33	0.00014	J	mg/kg	
4,4'-DDT [d]	1	8.82	8.85	0.0010		mg/kg	61.4
4,4'-DDT [a]	2 [b]	10.78	10.78	0.00053		mg/kg	
Heptachlor epoxide	1	7.23	7.24	0.00045		mg/kg	60.9
Heptachlor epoxide [a]	2 [b]	8.57	8.57	0.00024	J	mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Associated CCV outside of control limits low.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2471-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56374.D	**Injection Time:**	15:31
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	JD87833-5	**Injection Date:**	05/10/24
Lab File ID:	8G56401.D	**Injection Time:**	01:27
Client ID:	SB-5		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	7.56	7.57	0.0012	J	mg/kg	62.3
alpha-Chlordane [a]	2 [b]	9.07	9.09	0.00063	J	mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.00063	J	mg/kg	
4,4'-DDD	1	8.45	8.47	0.0011	J	mg/kg	40.4
4,4'-DDD [a]	2 [b]	10.27	10.27	0.00073	J	mg/kg	
4,4'-DDT	1	8.84	8.86	0.0014	J	mg/kg	7.4
4,4'-DDT	2 [b]	10.79	10.80	0.0013	J	mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2470-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56335.D	**Injection Time:**	00:37
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	JD87833-7	**Injection Date:**	05/09/24
Lab File ID:	8G56355.D	**Injection Time:**	07:52
Client ID:	SB-7		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
beta-BHC	1	5.90	5.91	0.0011		mg/kg	152.0
beta-BHC [a]	2 [b]	6.90	6.89	0.00015	JB	mg/kg	
alpha-Chlordane	1	7.54	7.55	0.0011		mg/kg	24.5
alpha-Chlordane	2 [b]	9.06	9.07	0.00086		mg/kg	
gamma-Chlordane	1	7.38	7.40	0.00062		mg/kg	34.0
gamma-Chlordane	2 [b]	8.84	8.85	0.00044		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.0013		mg/kg	
Dieldrin	1	8.01	8.02	0.00023	J	mg/kg	42.1
Dieldrin [a]	2 [b]	9.56	9.58	0.00015	J	mg/kg	
4,4'-DDD	1	8.43	8.46	0.00086		mg/kg	21.9
4,4'-DDD	2 [b]	10.25	10.26	0.00069		mg/kg	
4,4'-DDE	1	7.66	7.68	0.00073		mg/kg	24.6
4,4'-DDE	2 [b]	9.32	9.33	0.00057		mg/kg	
4,4'-DDT [d]	1	8.81	8.85	0.0011		mg/kg	85.7
4,4'-DDT [a]	2 [b]	10.77	10.78	0.00044		mg/kg	
Heptachlor epoxide	1	7.23	7.24	0.00060		mg/kg	66.7
Heptachlor epoxide [a]	2 [b]	8.56	8.57	0.00030	J	mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Associated CCV outside of control limits low.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2470-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56335.D	**Injection Time:**	00:37
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	JD87833-8	**Injection Date:**	05/09/24
Lab File ID:	8G56356.D	**Injection Time:**	08:13
Client ID:	SB-8		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
beta-BHC	1	5.91	5.91	0.0014		mg/kg	166.0
beta-BHC [a]	2 [b]	6.90	6.89	0.00013	JB	mg/kg	
alpha-Chlordane	1	7.54	7.55	0.00078		mg/kg	34.6
alpha-Chlordane	2 [b]	9.06	9.07	0.00055		mg/kg	
gamma-Chlordane	1	7.38	7.40	0.00039	J	mg/kg	60.0
gamma-Chlordane [a]	2 [b]	8.85	8.85	0.00021	J	mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.00076		mg/kg	
4,4'-DDD	1	8.44	8.46	0.00066		mg/kg	27.6
4,4'-DDD	2 [b]	10.25	10.26	0.00050		mg/kg	
4,4'-DDE	1	7.66	7.68	0.00047		mg/kg	72.5
4,4'-DDE [a]	2 [b]	9.33	9.33	0.00022	J	mg/kg	
4,4'-DDT [d]	1	8.81	8.85	0.00096		mg/kg	72.3
4,4'-DDT [a]	2 [b]	10.77	10.78	0.00045		mg/kg	
Heptachlor epoxide	1	7.23	7.24	0.00041		mg/kg	87.7
Heptachlor epoxide [a]	2 [b]	8.57	8.57	0.00016	J	mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Associated CCV outside of control limits low.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2470-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56335.D	**Injection Time:**	00:37
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	JD87833-10	**Injection Date:**	05/09/24
Lab File ID:	8G56357.D	**Injection Time:**	08:35
Client ID:	SB-10		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
beta-BHC	1	5.91	5.91	0.00021	J	mg/kg	33.3
beta-BHC	2 [a]	6.90	6.89	0.00015	JB	mg/kg	
alpha-Chlordane	1	7.54	7.55	0.00026	J	mg/kg	41.9
alpha-Chlordane [b]	2 [a]	9.06	9.07	0.00017	J	mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.00017	J	mg/kg	
4,4'-DDD	1	8.44	8.46	0.00017	J	mg/kg	0.0
4,4'-DDD	2 [a]	10.25	10.26	0.00017	J	mg/kg	
4,4'-DDE	1	7.66	7.68	0.00033	J	mg/kg	31.6
4,4'-DDE	2 [a]	9.33	9.33	0.00024	J	mg/kg	
4,4'-DDT [d]	1	8.82	8.85	0.00016	J	mg/kg	56.0
4,4'-DDT [b]	2 [a]	10.77	10.78	0.000090	J	mg/kg	

(a) Final result reported from this column.
(b) More than 40 % RPD for detected concentrations between the two GC columns.
(c) Final reported result.
(d) Associated CCV outside of control limits low.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2472-CC2430	**Injection Date:**	05/10/24
Lab File ID:	8G56407.D	**Injection Time:**	04:36
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	JD87833-11	**Injection Date:**	05/10/24
Lab File ID:	8G56434.D	**Injection Time:**	15:41
Client ID:	SB-11		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	7.59	7.56	0.0021		mg/kg	71.8
alpha-Chlordane [a]	2 [b]	9.10	9.08	0.00099		mg/kg	
gamma-Chlordane [a]	1 [b]	7.41	7.40	0.00034	J	mg/kg	80.7
gamma-Chlordane [a]	2	8.88	8.86	0.00080		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.0013		mg/kg	
4,4'-DDD	1	8.49	8.46	0.00076		mg/kg	9.7
4,4'-DDD	2 [b]	10.28	10.27	0.00069		mg/kg	
4,4'-DDE	1	7.71	7.68	0.0068		mg/kg	21.1
4,4'-DDE	2 [b]	9.36	9.34	0.0055		mg/kg	
4,4'-DDT [d]	1	8.88	8.86	0.0014		mg/kg	19.4
4,4'-DDT [e]	2 [b]	10.80	10.79	0.0017		mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Associated CCV outside of control limits low.
(e) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2470-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56335.D	**Injection Time:**	00:37
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	JD87833-14	**Injection Date:**	05/09/24
Lab File ID:	8G56360.D	**Injection Time:**	09:40
Client ID:	SB-14		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
beta-BHC	1	5.91	5.91	0.00060		mg/kg	147.8
beta-BHC [a]	2 [b]	6.90	6.89	0.000090	JB	mg/kg	
alpha-Chlordane	1	7.54	7.55	0.0068		mg/kg	42.9
alpha-Chlordane [a]	2 [b]	9.06	9.07	0.0044		mg/kg	
gamma-Chlordane	1	7.39	7.40	0.0031		mg/kg	17.5
gamma-Chlordane	2 [b]	8.85	8.85	0.0026		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.0069		mg/kg	
Dieldrin	1	8.01	8.02	0.00073		mg/kg	17.9
Dieldrin	2 [b]	9.58	9.58	0.00061		mg/kg	
4,4'-DDD	1	8.44	8.46	0.0046		mg/kg	14.0
4,4'-DDD	2 [b]	10.25	10.26	0.0040		mg/kg	
4,4'-DDE	1	7.66	7.68	0.0110		mg/kg	20.0
4,4'-DDE	2 [b]	9.33	9.33	0.0090		mg/kg	
4,4'-DDT [d]	1	8.83	8.85	0.0024		mg/kg	18.9
4,4'-DDT [e]	2 [b]	10.78	10.78	0.0029		mg/kg	
Heptachlor epoxide	1	7.23	7.24	0.0016		mg/kg	71.2
Heptachlor epoxide [a]	2 [b]	8.57	8.57	0.00076		mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Associated CCV outside of control limits low.
(e) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2470-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56335.D	**Injection Time:**	00:37
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	JD87833-15	**Injection Date:**	05/09/24
Lab File ID:	8G56361.D	**Injection Time:**	10:02
Client ID:	DUPE 1		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
beta-BHC	1	5.91	5.91	0.0013		mg/kg	163.6
beta-BHC [a]	2 [b]	6.90	6.89	0.00013	JB	mg/kg	
alpha-Chlordane	1	7.55	7.55	0.00018	J	mg/kg	18.2
alpha-Chlordane	2 [b]	9.07	9.07	0.00015	J	mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.00015	J	mg/kg	
4,4'-DDD	1	8.44	8.46	0.00057		mg/kg	92.3
4,4'-DDD [a]	2 [b]	10.24	10.26	0.00021	J	mg/kg	
4,4'-DDT [d]	1	8.81	8.85	0.00087		mg/kg	105.3
4,4'-DDT [a]	2 [b]	10.77	10.78	0.00027	J	mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Associated CCV outside of control limits low.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2470-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56335.D	**Injection Time:**	00:37
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	JD87833-16	**Injection Date:**	05/09/24
Lab File ID:	8G56362.D	**Injection Time:**	10:24
Client ID:	DUPE 2		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	7.54	7.55	0.0016		mg/kg	20.7
alpha-Chlordane	2 [a]	9.07	9.07	0.0013		mg/kg	
gamma-Chlordane	1 [a]	7.39	7.40	0.00068		mg/kg	27.8
gamma-Chlordane	2	8.85	8.85	0.00090		mg/kg	
Chlordane (alpha and gamma)	n/a [b]			0.0020		mg/kg	
Dieldrin	1	8.01	8.02	0.00030	J	mg/kg	6.9
Dieldrin	2 [a]	9.58	9.58	0.00028	J	mg/kg	
4,4'-DDD [c]	1 [a]	8.44	8.46	0.00073		mg/kg	40.4
4,4'-DDD [c]	2	10.25	10.26	0.0011		mg/kg	
4,4'-DDE	1 [a]	7.66	7.68	0.0044		mg/kg	30.8
4,4'-DDE	2	9.33	9.33	0.0060		mg/kg	
4,4'-DDT [d]	1	8.83	8.85	0.00043		mg/kg	73.5
4,4'-DDT [e]	2 [a]	10.78	10.78	0.00093		mg/kg	
Heptachlor epoxide	1	7.23	7.24	0.00036	J	mg/kg	5.7
Heptachlor epoxide	2 [a]	8.57	8.57	0.00034	J	mg/kg	

(a) Final result reported from this column.
(b) Final reported result.
(c) More than 40 % RPD for detected concentrations between the two GC columns.
(d) Associated CCV outside of control limits low.
(e) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2470-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56335.D	**Injection Time:**	00:37
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	OP54452-BS1	**Injection Date:**	05/09/24
Lab File ID:	8G56338.D	**Injection Time:**	01:42
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1	6.58	6.58	4.5		ug/kg	6.9
Aldrin	2 [a]	7.77	7.77	4.2		ug/kg	
alpha-BHC	1	5.53	5.53	6.1		ug/kg	34.6
alpha-BHC	2 [a]	6.38	6.38	4.3		ug/kg	
beta-BHC	1 [a]	5.91	5.91	4.4		ug/kg	0.0
beta-BHC	2	6.89	6.89	4.4		ug/kg	
delta-BHC	1	6.08	6.08	4.7		ug/kg	6.6
delta-BHC	2 [a]	7.26	7.27	4.4		ug/kg	
gamma-BHC (Lindane)	1	5.81	5.81	4.3		ug/kg	2.4
gamma-BHC (Lindane)	2 [a]	6.79	6.79	4.2		ug/kg	
alpha-Chlordane	1	7.55	7.55	4.6		ug/kg	6.7
alpha-Chlordane	2 [a]	9.07	9.07	4.3		ug/kg	
gamma-Chlordane	1	7.39	7.40	4.5		ug/kg	2.2
gamma-Chlordane	2 [a]	8.85	8.85	4.4		ug/kg	
Chlordane (alpha and gamma)	n/a [b]			8.7		ug/kg	
Dieldrin	1	8.02	8.02	4.5		ug/kg	4.5
Dieldrin	2 [a]	9.58	9.58	4.3		ug/kg	
4,4'-DDD	1	8.46	8.46	5.4		ug/kg	13.9
4,4'-DDD	2 [a]	10.26	10.26	4.7		ug/kg	
4,4'-DDE	1 [a]	7.68	7.68	3.9		ug/kg	7.4
4,4'-DDE	2	9.33	9.33	4.2		ug/kg	
4,4'-DDT	1	8.85	8.85	3.1		ug/kg	12.1
4,4'-DDT [c]	2 [a]	10.78	10.78	3.5		ug/kg	
Endrin	1	8.32	8.32	4.4		ug/kg	2.3
Endrin	2 [a]	10.07	10.07	4.3		ug/kg	
Endosulfan sulfate	1	9.87	9.87	4.7		ug/kg	13.6
Endosulfan sulfate	2 [a]	11.44	11.43	4.1		ug/kg	
Endrin aldehyde	1 [a]	9.22	9.22	4.4		ug/kg	0.0
Endrin aldehyde	2	10.97	10.97	4.4		ug/kg	
Endosulfan-I	1	7.71	7.71	5.3		ug/kg	18.6
Endosulfan-I	2 [a]	9.16	9.16	4.4		ug/kg	
Endosulfan-II	1	8.62	8.63	4.8		ug/kg	4.3
Endosulfan-II	2 [a]	10.41	10.41	4.6		ug/kg	
Heptachlor	1 [a]	6.27	6.27	4.2		ug/kg	11.2
Heptachlor	2	7.34	7.34	4.7		ug/kg	
Heptachlor epoxide	1	7.24	7.24	5.0		ug/kg	15.1
Heptachlor epoxide	2 [a]	8.57	8.57	4.3		ug/kg	
Methoxychlor	1	9.61	9.62	3.1		ug/kg	14.9
Methoxychlor [c]	2 [a]	12.00	12.00	3.6		ug/kg	
Endrin ketone	1	10.28	10.28	4.4		ug/kg	4.7
Endrin ketone	2 [a]	12.37	12.37	4.2		ug/kg	

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2470-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56335.D	**Injection Time:**	00:37
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	OP54452-BS1	**Injection Date:**	05/09/24
Lab File ID:	8G56338.D	**Injection Time:**	01:42
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.
(c) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2470-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56335.D	**Injection Time:**	00:37
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	OP54452-MS	**Injection Date:**	05/09/24
Lab File ID:	8G56349.D	**Injection Time:**	05:41
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	6.57	6.58	4.3		ug/kg	17.7
Aldrin	2	7.77	7.77	3.6		ug/kg	
alpha-BHC	1 [a]	5.52	5.53	5.4		ug/kg	27.4
alpha-BHC	2	6.37	6.38	4.1		ug/kg	
beta-BHC	1 [a]	5.89	5.91	4.1		ug/kg	2.4
beta-BHC	2	6.88	6.89	4.2		ug/kg	
delta-BHC	1 [a]	6.06	6.08	4.6		ug/kg	11.5
delta-BHC	2	7.26	7.27	4.1		ug/kg	
gamma-BHC (Lindane)	1 [a]	5.80	5.81	4.2		ug/kg	7.4
gamma-BHC (Lindane)	2	6.78	6.79	3.9		ug/kg	
alpha-Chlordane	1 [a]	7.54	7.55	4.0		ug/kg	10.5
alpha-Chlordane	2	9.06	9.07	3.6		ug/kg	
gamma-Chlordane	1 [a]	7.38	7.40	3.8		ug/kg	11.1
gamma-Chlordane	2	8.84	8.85	3.4		ug/kg	
Chlordane (alpha and gamma)	n/a [b]			7.0		ug/kg	
Dieldrin	1 [a]	8.01	8.02	3.9		ug/kg	10.8
Dieldrin	2	9.58	9.58	3.5		ug/kg	
4,4'-DDD	1 [a]	8.44	8.46	4.7		ug/kg	23.8
4,4'-DDD	2	10.25	10.26	3.7		ug/kg	
4,4'-DDE	1 [a]	7.66	7.68	3.5		ug/kg	2.9
4,4'-DDE	2	9.33	9.33	3.4		ug/kg	
4,4'-DDT	1 [a]	8.83	8.85	2.1		ug/kg	13.3
4,4'-DDT	2	10.77	10.78	2.4		ug/kg	
Endrin	1 [a]	8.31	8.32	3.8		ug/kg	2.7
Endrin	2	10.06	10.07	3.7		ug/kg	
Endosulfan sulfate	1 [a]	9.86	9.87	3.6		ug/kg	8.7
Endosulfan sulfate	2	11.43	11.43	3.3		ug/kg	
Endrin aldehyde	1 [a]	9.21	9.22	3.6		ug/kg	8.7
Endrin aldehyde	2	10.97	10.97	3.3		ug/kg	
Endosulfan-I	1 [a]	7.70	7.71	4.1		ug/kg	13.0
Endosulfan-I	2	9.15	9.16	3.6		ug/kg	
Endosulfan-II	1 [a]	8.61	8.63	3.9		ug/kg	13.7
Endosulfan-II	2	10.41	10.41	3.4		ug/kg	
Heptachlor	1 [a]	6.26	6.27	4.0		ug/kg	2.5
Heptachlor	2	7.34	7.34	4.1		ug/kg	
Heptachlor epoxide	1 [a]	7.23	7.24	4.6		ug/kg	24.4
Heptachlor epoxide	2	8.56	8.57	3.6		ug/kg	
Methoxychlor	1 [a]	9.60	9.62	2.1		ug/kg	32.0
Methoxychlor	2	12.00	12.00	2.9		ug/kg	
Endrin ketone	1 [a]	10.28	10.28	3.6		ug/kg	5.7
Endrin ketone	2	12.37	12.37	3.4		ug/kg	

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2470-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56335.D	**Injection Time:**	00:37
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	OP54452-MS	**Injection Date:**	05/09/24
Lab File ID:	8G56349.D	**Injection Time:**	05:41
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2470-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56335.D	**Injection Time:**	00:37
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	OP54452-MSD	**Injection Date:**	05/09/24
Lab File ID:	8G56350.D	**Injection Time:**	06:03
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	6.57	6.58	4.5		ug/kg	16.9
Aldrin	2	7.77	7.77	3.8		ug/kg	
alpha-BHC	1 [a]	5.52	5.53	5.9		ug/kg	36.0
alpha-BHC	2	6.37	6.38	4.1		ug/kg	
beta-BHC	1 [a]	5.89	5.91	4.1		ug/kg	2.4
beta-BHC	2	6.88	6.89	4.2		ug/kg	
delta-BHC	1 [a]	6.06	6.08	4.6		ug/kg	6.7
delta-BHC	2	7.26	7.27	4.3		ug/kg	
gamma-BHC (Lindane)	1 [a]	5.80	5.81	4.2		ug/kg	4.9
gamma-BHC (Lindane)	2	6.79	6.79	4.0		ug/kg	
alpha-Chlordane	1 [a]	7.54	7.55	4.3		ug/kg	9.8
alpha-Chlordane	2	9.06	9.07	3.9		ug/kg	
gamma-Chlordane	1 [a]	7.39	7.40	4.0		ug/kg	10.5
gamma-Chlordane	2	8.85	8.85	3.6		ug/kg	
Chlordane (alpha and gamma)	n/a [b]			7.5		ug/kg	
Dieldrin	1 [a]	8.01	8.02	4.2		ug/kg	10.0
Dieldrin	2	9.58	9.58	3.8		ug/kg	
4,4'-DDD	1 [a]	8.44	8.46	5.0		ug/kg	17.4
4,4'-DDD	2	10.25	10.26	4.2		ug/kg	
4,4'-DDE	1 [a]	7.66	7.68	3.7		ug/kg	5.6
4,4'-DDE	2	9.33	9.33	3.5		ug/kg	
4,4'-DDT	1 [a]	8.84	8.85	2.2		ug/kg	12.8
4,4'-DDT	2	10.77	10.78	2.5		ug/kg	
Endrin	1 [a]	8.31	8.32	4.1		ug/kg	2.5
Endrin	2	10.07	10.07	4.0		ug/kg	
Endosulfan sulfate	1 [a]	9.86	9.87	4.0		ug/kg	13.3
Endosulfan sulfate	2	11.43	11.43	3.5		ug/kg	
Endrin aldehyde	1 [a]	9.21	9.22	4.0		ug/kg	10.5
Endrin aldehyde	2	10.97	10.97	3.6		ug/kg	
Endosulfan-I	1 [a]	7.70	7.71	4.5		ug/kg	16.9
Endosulfan-I	2	9.15	9.16	3.8		ug/kg	
Endosulfan-II	1 [a]	8.61	8.63	4.2		ug/kg	7.4
Endosulfan-II	2	10.41	10.41	3.9		ug/kg	
Heptachlor	1 [a]	6.26	6.27	4.0		ug/kg	2.5
Heptachlor	2	7.34	7.34	4.1		ug/kg	
Heptachlor epoxide	1 [a]	7.23	7.24	4.9		ug/kg	22.7
Heptachlor epoxide	2	8.57	8.57	3.9		ug/kg	
Methoxychlor	1 [a]	9.60	9.62	2.4		ug/kg	28.6
Methoxychlor	2	12.00	12.00	3.2		ug/kg	
Endrin ketone	1 [a]	10.28	10.28	3.9		ug/kg	10.8
Endrin ketone	2	12.37	12.37	3.5		ug/kg	

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2470-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56335.D	**Injection Time:**	00:37
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	OP54452-MSD	**Injection Date:**	05/09/24
Lab File ID:	8G56350.D	**Injection Time:**	06:03
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G2G6085-CC6081	**Injection Date:**	05/09/24
Lab File ID:	2G231731.D	**Injection Time:**	04:02
Instrument ID:	GC2G	**Method:**	SW846 8082A

Sample ID:	OP54453-BS1	**Injection Date:**	05/09/24
Lab File ID:	2G231734.D	**Injection Time:**	05:15
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016 [a]	1 [b]			37.8		ug/kg	9.1
Aroclor 1016 [a]	2			34.5		ug/kg	
AR1016-B	1	5.25	5.26	38.8		ug/kg	
AR1016-B	2	6.02	6.02	37.2		ug/kg	
AR1016-C	1	5.62	5.62	38.3		ug/kg	
AR1016-C	2	6.52	6.52	32.2		ug/kg	
AR1016-D	1	5.75	5.75	36.5		ug/kg	
AR1016-D	2	6.69	6.69	34.1		ug/kg	
Aroclor 1260 [a]	1 [b]			39.3		ug/kg	26.5
Aroclor 1260 [a]	2			30.1		ug/kg	
AR1260-A	1	8.55	8.55	37.2		ug/kg	
AR1260-A	2	10.42	10.42	29.1		ug/kg	
AR1260-B	1	8.79	8.79	41.4		ug/kg	
AR1260-B	2	10.52	10.52	31.4		ug/kg	
AR1260-C	1	9.26	9.26	39.3		ug/kg	
AR1260-C	2	10.86	10.86	29.9		ug/kg	

(a) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
(b) QC results reported from this column.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G2G6085-CC6081	**Injection Date:**	05/09/24
Lab File ID:	2G231731.D	**Injection Time:**	04:02
Instrument ID:	GC2G	**Method:**	SW846 8082A

Sample ID:	OP54453-MS	**Injection Date:**	05/09/24
Lab File ID:	2G231735.D	**Injection Time:**	05:39
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			36.4		ug/kg	5.6
Aroclor 1016	2			34.4		ug/kg	
AR1016-B	1	5.25	5.26	37.4		ug/kg	
AR1016-B	2	6.02	6.02	37.3		ug/kg	
AR1016-C	1	5.62	5.62	37.7		ug/kg	
AR1016-C	2	6.52	6.52	32.2		ug/kg	
AR1016-D	1	5.75	5.75	34.2		ug/kg	
AR1016-D	2	6.69	6.69	33.5		ug/kg	
Aroclor 1260	1 [a]			41.4		ug/kg	30.0
Aroclor 1260	2			30.6		ug/kg	
AR1260-A	1	8.55	8.55	40.9		ug/kg	
AR1260-A	2	10.42	10.42	30.1		ug/kg	
AR1260-B	1	8.79	8.79	41.4		ug/kg	
AR1260-B	2	10.52	10.52	30.7		ug/kg	
AR1260-C	1	9.26	9.26	41.7		ug/kg	
AR1260-C	2	10.85	10.86	31.0		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G2G6085-CC6081	**Injection Date:**	05/09/24
Lab File ID:	2G231731.D	**Injection Time:**	04:02
Instrument ID:	GC2G	**Method:**	SW846 8082A

Sample ID:	OP54453-MSD	**Injection Date:**	05/09/24
Lab File ID:	2G231736.D	**Injection Time:**	06:03
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			38.8		ug/kg	5.3
Aroclor 1016	2			36.8		ug/kg	
AR1016-B	1	5.25	5.26	38.8		ug/kg	
AR1016-B	2	6.02	6.02	39.1		ug/kg	
AR1016-C	1	5.62	5.62	39.3		ug/kg	
AR1016-C	2	6.52	6.52	34.5		ug/kg	
AR1016-D	1	5.75	5.75	38.3		ug/kg	
AR1016-D	2	6.69	6.69	36.7		ug/kg	
Aroclor 1260	1 [a]			41.5		ug/kg	28.0
Aroclor 1260	2			31.3		ug/kg	
AR1260-A	1	8.55	8.55	38.3		ug/kg	
AR1260-A	2	10.42	10.42	30.8		ug/kg	
AR1260-B	1	8.79	8.79	43.0		ug/kg	
AR1260-B	2	10.52	10.52	31.4		ug/kg	
AR1260-C	1	9.26	9.26	43.1		ug/kg	
AR1260-C	2	10.86	10.86	31.8		ug/kg	

(a) QC results reported from this column.

Surrogate Recovery Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8081B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD87833-17	1G196210.D	54	55	28	25
JD87833-17R	1G196431.D	88	92	29	27
OP54399-BS1	1G196196.D	57	55	36	31
OP54399-BSD	1G196197.D	61	58	42	36
OP54399-MB1	1G196195.D	36	35	41	33
OP54554-BS1	1G196360.D	74	72	79	66
OP54554-BSD	1G196361.D	42	43	33	27
OP54554-MB1	1G196359.D	67	65	84	67

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	10-175%
S2 = Decachlorobiphenyl	10-128%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Surrogate Recovery Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8082A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD87833-17	3G141341.D	46	46	19	18
OP54400-BS1	3G141338.D	56	50	22	20
OP54400-BSD	3G141339.D	57	56	34	34
OP54400-MB1	3G141337.D	33	29	28	26

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	10-169%
S2 = Decachlorobiphenyl	10-130%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Surrogate Recovery Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8081B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD87833-1	8G56351.D	80	83	54	86
JD87833-3	8G56352.D	97	84	55	127
JD87833-4	8G56353.D	75	75	44	112
JD87833-5	8G56401.D	90	84	54	104
JD87833-7	8G56355.D	87	84	58	111
JD87833-8	8G56356.D	89	81	50	108
JD87833-10	8G56357.D	81	86	58	88
JD87833-11	8G56434.D	98	80	68	83
JD87833-12	8G56359.D	68	89	47	81
JD87833-14	8G56360.D	99	88	61	88
JD87833-15	8G56361.D	93	83	56	107
JD87833-16	8G56362.D	59	89	46	106
OP54452-BS1	8G56338.D	106	99	94	97
OP54452-MB1	8G56337.D	97	98	88	95
OP54452-MS	8G56349.D	104	94	76	85
OP54452-MSD	8G56350.D	114	95	83	80

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	46-145%
S2 = Decachlorobiphenyl	29-163%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Surrogate Recovery Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8082A **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD87833-1	2G231737.D	95	90	94	103
JD87833-3	2G231738.D	81	78	80	123
JD87833-4	2G231739.D	81	77	73	118
JD87833-5	2G231744.D	78	75	76	122
JD87833-7	2G231745.D	77	77	67	110
JD87833-8	2G231746.D	80	76	66	108
JD87833-10	2G231747.D	89	81	68	91
JD87833-11	2G231748.D	79	80	63	96
JD87833-12	2G231749.D	66	71	54	89
JD87833-14	2G231750.D	87	79	61	96
JD87833-15	2G231755.D	82	82	68	109
JD87833-16	2G231756.D	80	78	67	88
OP54453-BS1	2G231734.D	98	98	101	94
OP54453-MB1	2G231733.D	100	99	100	94
OP54453-MS	2G231735.D	97	98	98	95
OP54453-MSD	2G231736.D	99	99	99	94

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	42-159%
S2 = Decachlorobiphenyl	18-154%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G3G5173-CC5160	**Injection Date:**	05/08/24
Lab File ID:	3G141327.D	**Injection Time:**	00:33
Instrument ID:	GC3G	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.47	4.06	10.98	12.59

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP54398-MB1	3G141329.D	05/08/24	01:07	3.47	4.08	10.98	12.59
OP54398-BS1	3G141330.D	05/08/24	01:23	3.47	4.07	10.97	12.59
OP54398-BSD	3G141331.D	05/08/24	01:40	3.47	4.07	10.97	12.59
ZZZZZZ	3G141332.D	05/08/24	01:56	3.42	4.07	10.97	12.59
ZZZZZZ	3G141333.D	05/08/24	02:13	3.47	4.08	10.97	12.59
ZZZZZZ	3G141334.D	05/08/24	02:30	3.47	4.08	10.97	12.59
ZZZZZZ	3G141335.D	05/08/24	02:46	3.51	4.11	11.00	12.61
OP54400-MB1	3G141337.D	05/08/24	03:20	3.47	4.08	10.97	12.59
OP54400-BS1	3G141338.D	05/08/24	03:36	3.47	4.08	10.97	12.59
OP54400-BSD	3G141339.D	05/08/24	03:53	3.47	4.08	10.97	12.59
ZZZZZZ	3G141340.D	05/08/24	04:10	3.47	4.08	10.97	12.59
JD87833-17	3G141341.D	05/08/24	04:26	3.47	4.08	10.97	12.59
OP54402A-MB1	3G141343.D	05/08/24	05:00	3.47	4.08	10.97	12.59
OP54402A-BS1	3G141344.D	05/08/24	05:16	3.47	4.08	10.97	12.59
OP54402A-BSD	3G141345.D	05/08/24	05:33	3.47	4.08	10.97	12.59
ZZZZZZ	3G141346.D	05/08/24	05:49	3.47	4.08	10.97	12.59
ZZZZZZ	3G141347.D	05/08/24	06:06	3.47	4.08	10.97	12.59
ZZZZZZ	3G141348.D	05/08/24	06:23	3.47	4.08	10.97	12.59

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7004-CC6859	**Injection Date:**	05/07/24
Lab File ID:	1G196193.D	**Injection Time:**	23:51
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.70	1.73	8.61	9.95

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP54399-MB1	1G196195.D	05/08/24	00:24	1.70	1.73	8.61	9.95
OP54399-BS1	1G196196.D	05/08/24	00:40	1.70	1.73	8.61	9.95
OP54399-BSD	1G196197.D	05/08/24	00:55	1.70	1.73	8.61	9.95
OP54397A-MB1	1G196198.D	05/08/24	01:10	1.70	1.73	8.61	9.95
OP54397-MB1	1G196198.D	05/08/24	01:10	1.70	1.73	8.61	9.95
OP54397A-BS1	1G196199.D	05/08/24	01:26	1.70	1.74	8.61	9.95
OP54397-BS1	1G196199.D	05/08/24	01:26	1.70	1.74	8.61	9.95
OP54397A-BSD	1G196200.D	05/08/24	01:41	1.70	1.74	8.61	9.95
OP54397-BSD	1G196200.D	05/08/24	01:41	1.70	1.74	8.61	9.95
ZZZZZZ	1G196201.D	05/08/24	01:56	1.70	1.74	8.61	9.94
ZZZZZZ	1G196202.D	05/08/24	02:12	1.70	1.73	8.61	9.95
ZZZZZZ	1G196203.D	05/08/24	02:27	1.69	1.73	8.61	9.95
ZZZZZZ	1G196204.D	05/08/24	02:42	1.69	1.73	8.61	9.95
ZZZZZZ	1G196205.D	05/08/24	02:57	1.70	1.74	8.61	9.95
ZZZZZZ	1G196206.D	05/08/24	03:13	1.70	1.73	8.61	9.95
ZZZZZZ	1G196207.D	05/08/24	03:28	1.69	1.73	8.61	9.95
ZZZZZZ	1G196208.D	05/08/24	03:43	1.70	1.74	8.61	9.95
ZZZZZZ	1G196209.D	05/08/24	03:59	1.69	1.73	8.60	9.94
JD87833-17	1G196210.D	05/08/24	04:14	1.70	1.74	8.61	9.95
ZZZZZZ	1G196211.D	05/08/24	04:29	1.69	1.74	8.61	9.95
ZZZZZZ	1G196212.D	05/08/24	04:45	1.70	1.74	8.61	9.95
ZZZZZZ	1G196213.D	05/08/24	05:00	1.70	1.73	8.61	9.94

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7013-CC6859	**Injection Date:**	05/14/24
Lab File ID:	1G196352.D	**Injection Time:**	08:13
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.69	1.72	8.61	9.95

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP54558A-MB1	1G196354.D	05/14/24	08:52	1.68	1.72	8.60	9.94
OP54558A-BS1	1G196355.D	05/14/24	09:07	1.68	1.73	8.60	9.95
OP54558A-BSD	1G196356.D	05/14/24	09:22	1.68	1.72	8.60	9.94
OP54558A-BS13	1G196357.D	05/14/24	09:38	1.68	1.73	8.60	9.95
OP54558A-BS14	1G196358.D	05/14/24	09:53	1.68	1.72	8.60	9.95
OP54554-MB1	1G196359.D	05/14/24	10:08	1.68	1.72	8.60	9.95
OP54554A-MB1	1G196359.D	05/14/24	10:08	1.68	1.72	8.60	9.95
OP54554-BS1	1G196360.D	05/14/24	10:24	1.68	1.72	8.60	9.94
OP54554A-BS1	1G196360.D	05/14/24	10:24	1.68	1.72	8.60	9.94
OP54554-BSD	1G196361.D	05/14/24	10:39	1.68	1.72	8.60	9.95
OP54554A-BSD	1G196361.D	05/14/24	10:39	1.68	1.72	8.60	9.95
OP54554A-BS13	1G196362.D	05/14/24	10:54	1.68	1.72	8.60	9.95
OP54554A-BS14	1G196363.D	05/14/24	11:10	1.68	1.73	8.60	9.95
ZZZZZZ	1G196364.D	05/14/24	11:25	1.67	1.73	8.60	9.94
ZZZZZZ	1G196365.D	05/14/24	11:41	1.68	1.72	8.60	9.95
ZZZZZZ	1G196366.D	05/14/24	11:56	1.68	1.74	8.60	9.95
ZZZZZZ	1G196367.D	05/14/24	12:11	1.68	1.72	8.60	9.94
ZZZZZZ	1G196368.D	05/14/24	12:27	1.68	1.73	8.60	9.94
ZZZZZZ	1G196369.D	05/14/24	12:42	1.68	1.72	8.60	9.95

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7016-CC6859	**Injection Date:**	05/15/24
Lab File ID:	1G196428.D	**Injection Time:**	10:36
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.69	1.73	8.60	9.95

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	1G196430.D	05/15/24	11:33	1.69	1.73	8.62	9.96
JD87833-17R	1G196431.D	05/15/24	11:49	1.69	1.73	8.61	9.96
ZZZZZZ	1G196433.D	05/15/24	12:19	1.69	1.73	8.60	9.95
ZZZZZZ	1G196434.D	05/15/24	12:35	1.69	1.73	8.61	9.95
ZZZZZZ	1G196435.D	05/15/24	12:50	1.69	1.73	8.60	9.96

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2470-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56335.D	**Injection Time:**	00:37
Instrument ID:	GC8G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	5.07	5.73	12.05	14.19

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP54452-MB1	8G56337.D	05/09/24	01:20	5.07	5.73	12.05	14.19
OP54452-BS1	8G56338.D	05/09/24	01:42	5.07	5.73	12.05	14.19
ZZZZZZ	8G56339.D	05/09/24	02:04	5.07	5.73	12.05	14.19
ZZZZZZ	8G56341.D	05/09/24	02:47	5.07	5.73	12.05	14.18
ZZZZZZ	8G56342.D	05/09/24	03:09	5.07	5.73	12.05	14.19
ZZZZZZ	8G56343.D	05/09/24	03:31	5.07	5.73	12.04	14.18
ZZZZZZ	8G56344.D	05/09/24	03:52	5.07	5.73	12.04	14.18
ZZZZZZ	8G56345.D	05/09/24	04:14	5.06	5.73	12.04	14.18
ZZZZZZ	8G56346.D	05/09/24	04:36	5.07	5.73	12.04	14.18
ZZZZZZ	8G56347.D	05/09/24	04:58	5.07	5.73	12.04	14.18
OP54452-MS	8G56349.D	05/09/24	05:41	5.07	5.73	12.04	14.19
OP54452-MSD	8G56350.D	05/09/24	06:03	5.07	5.73	12.05	14.18
JD87833-1	8G56351.D	05/09/24	06:24	5.07	5.73	12.04	14.18
JD87833-3	8G56352.D	05/09/24	06:46	5.07	5.73	12.04	14.18
JD87833-4	8G56353.D	05/09/24	07:08	5.07	5.74	12.04	14.18
JD87833-7	8G56355.D	05/09/24	07:52	5.07	5.73	12.04	14.18
JD87833-8	8G56356.D	05/09/24	08:13	5.07	5.73	12.04	14.18
JD87833-10	8G56357.D	05/09/24	08:35	5.07	5.73	12.04	14.18
JD87833-12	8G56359.D	05/09/24	09:19	5.07	5.73	12.04	14.19
JD87833-14	8G56360.D	05/09/24	09:40	5.07	5.74	12.04	14.18
JD87833-15	8G56361.D	05/09/24	10:02	5.07	5.74	12.04	14.18
JD87833-16	8G56362.D	05/09/24	10:24	5.07	5.74	12.04	14.19
JD87772-1	8G56363.D	05/09/24	10:45	5.07	5.74	12.05	14.18
ZZZZZZ	8G56364.D	05/09/24	11:07	5.07	5.74	12.05	14.19
ZZZZZZ	8G56365.D	05/09/24	11:29	5.07	5.73	12.04	14.18
ZZZZZZ	8G56366.D	05/09/24	11:50	5.07	5.74	12.05	14.19
ZZZZZZ	8G56367.D	05/09/24	12:12	5.07	5.73	12.04	14.18

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2471-CC2430	**Injection Date:**	05/09/24
Lab File ID:	8G56374.D	**Injection Time:**	15:31
Instrument ID:	GC8G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	5.08	5.75	12.07	14.20

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP54426-MB1	8G56377.D	05/09/24	16:44	5.09	5.75	12.07	14.20
OP54426-BS1	8G56378.D	05/09/24	17:06	5.09	5.75	12.07	14.20
ZZZZZZ	8G56379.D	05/09/24	17:28	5.08	5.75	12.07	14.20
ZZZZZZ	8G56380.D	05/09/24	17:50	5.08	5.75	12.06	14.20
ZZZZZZ	8G56381.D	05/09/24	18:11	5.08	5.75	12.06	14.20
OP54426-MS	8G56382.D	05/09/24	18:33	5.08	5.75	12.06	14.20
OP54426-MSD	8G56383.D	05/09/24	18:55	5.08	5.75	12.06	14.20
LB1891-1	8G56384.D	05/09/24	19:17	5.08	5.74	12.06	14.19
ZZZZZZ	8G56385.D	05/09/24	19:39	5.08	5.75	12.06	14.20
ZZZZZZ	8G56386.D	05/09/24	20:00	5.08	5.75	12.06	14.20
ZZZZZZ	8G56387.D	05/09/24	20:22	5.09	5.75	12.06	14.20
ZZZZZZ	8G56388.D	05/09/24	20:44	5.08	5.75	12.06	14.20
ZZZZZZ	8G56389.D	05/09/24	21:05	5.08	5.75	12.07	14.20
ZZZZZZ	8G56390.D	05/09/24	21:27	5.08	5.75	12.06	14.20
ZZZZZZ	8G56391.D	05/09/24	21:49	5.08	5.74	12.06	14.20
ZZZZZZ	8G56392.D	05/09/24	22:10	5.08	5.74	12.06	14.20
ZZZZZZ	8G56393.D	05/09/24	22:32	5.08	5.74	12.06	14.20
ZZZZZZ	8G56394.D	05/09/24	22:54	5.08	5.74	12.06	14.19
ZZZZZZ	8G56395.D	05/09/24	23:16	5.08	5.74	12.06	14.20
ZZZZZZ	8G56396.D	05/09/24	23:37	5.08	5.74	12.06	14.19
ZZZZZZ	8G56397.D	05/09/24	23:59	5.08	5.74	12.06	14.19
ZZZZZZ	8G56398.D	05/10/24	00:21	5.08	5.74	12.06	14.19
ZZZZZZ	8G56399.D	05/10/24	00:43	5.08	5.74	12.06	14.19
ZZZZZZ	8G56400.D	05/10/24	01:05	5.07	5.74	12.06	14.19
JD87833-5	8G56401.D	05/10/24	01:27	5.08	5.74	12.06	14.19

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2472-CC2430	**Injection Date:**	05/10/24
Lab File ID:	8G56407.D	**Injection Time:**	04:36
Instrument ID:	GC8G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	5.08	5.74	12.06	14.19

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP54526-MB1	8G56409.D	05/10/24	05:20	5.08	5.74	12.07	14.19
OP54526-BS1	8G56410.D	05/10/24	05:41	5.08	5.74	12.07	14.20
OP54526-LS12	8G56411.D	05/10/24	06:03	5.08	5.74	12.06	14.19
OP54526-MS	8G56411.D	05/10/24	06:03	5.08	5.74	12.06	14.19
OP54526-MSD	8G56412.D	05/10/24	06:25	5.08	5.74	12.06	14.19
OP54526-LB12	8G56413.D	05/10/24	06:47	5.08	5.74	12.06	14.19
ZZZZZZ	8G56414.D	05/10/24	07:09	5.08	5.74	12.06	14.19
JD87790-2	8G56415.D	05/10/24	07:31	5.08	5.74	12.06	14.19
ZZZZZZ	8G56416.D	05/10/24	07:53	5.08	5.74	12.06	14.19
ZZZZZZ	8G56417.D	05/10/24	08:15	5.08	5.74	12.06	14.19
ZZZZZZ	8G56418.D	05/10/24	08:37	5.08	5.74	12.06	14.19
ZZZZZZ	8G56419.D	05/10/24	08:58	5.08	5.74	12.06	14.19
ZZZZZZ	8G56420.D	05/10/24	09:20	5.08	5.74	12.06	14.19
ZZZZZZ	8G56421.D	05/10/24	09:42	5.08	5.74	12.06	14.19
ZZZZZZ	8G56422.D	05/10/24	10:04	5.08	5.74	12.06	14.19
ZZZZZZ	8G56423.D	05/10/24	10:26	5.08	5.74	12.06	14.19
ZZZZZZ	8G56424.D	05/10/24	10:48	5.08	5.74	12.06	14.19
ZZZZZZ	8G56425.D	05/10/24	11:10	5.08	5.74	12.06	14.19
ZZZZZZ	8G56426.D	05/10/24	11:31	5.08	5.74	12.06	14.19
ZZZZZZ	8G56427.D	05/10/24	11:53	5.08	5.74	12.06	14.19
ZZZZZZ	8G56428.D	05/10/24	12:15	5.08	5.74	12.06	14.19
ZZZZZZ	8G56429.D	05/10/24	12:37	5.08	5.74	12.06	14.19
ZZZZZZ	8G56430.D	05/10/24	12:59	5.08	5.74	12.06	14.19
ZZZZZZ	8G56431.D	05/10/24	13:21	5.08	5.74	12.06	14.19
ZZZZZZ	8G56432.D	05/10/24	13:42	5.08	5.74	12.06	14.19
ZZZZZZ	8G56433.D	05/10/24	14:04	5.08	5.74	12.06	14.19
JD87833-11	8G56434.D	05/10/24	15:41	5.12	5.79	12.08	14.20

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G2G6085-CC6081	**Injection Date:**	05/09/24
Lab File ID:	2G231731.D	**Injection Time:**	04:02
Instrument ID:	GC2G	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	4.69	5.18	11.32	12.43

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP54453-MB1	2G231733.D	05/09/24	04:51	4.69	5.18	11.32	12.43
OP54453-BS1	2G231734.D	05/09/24	05:15	4.69	5.18	11.32	12.43
OP54453-MS	2G231735.D	05/09/24	05:39	4.69	5.18	11.32	12.43
OP54453-MSD	2G231736.D	05/09/24	06:03	4.69	5.18	11.32	12.43
JD87833-1	2G231737.D	05/09/24	06:27	4.69	5.18	11.31	12.43
JD87833-3	2G231738.D	05/09/24	06:51	4.69	5.18	11.31	12.43
JD87833-4	2G231739.D	05/09/24	07:15	4.69	5.18	11.32	12.43

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G2G6085-CC6081	**Injection Date:**	05/09/24
Lab File ID:	2G231742.D	**Injection Time:**	08:28
Instrument ID:	GC2G	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	4.69	5.18	11.31	12.43

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
JD87833-5	2G231744.D	05/09/24	09:16	4.69	5.18	11.31	12.43
JD87833-7	2G231745.D	05/09/24	09:40	4.69	5.18	11.32	12.43
JD87833-8	2G231746.D	05/09/24	10:04	4.69	5.18	11.32	12.43
JD87833-10	2G231747.D	05/09/24	10:28	4.69	5.18	11.31	12.43
JD87833-11	2G231748.D	05/09/24	10:52	4.69	5.18	11.32	12.43
JD87833-12	2G231749.D	05/09/24	11:15	4.69	5.18	11.32	12.43
JD87833-14	2G231750.D	05/09/24	11:39	4.69	5.18	11.31	12.43

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G2G6085-CC6081	**Injection Date:**	05/09/24
Lab File ID:	2G231753.D	**Injection Time:**	12:51
Instrument ID:	GC2G	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	4.69	5.18	11.31	12.44

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
JD87833-15	2G231755.D	05/09/24	13:39	4.69	5.18	11.31	12.43
JD87833-16	2G231756.D	05/09/24	14:03	4.69	5.18	11.31	12.43
ZZZZZZ	2G231757.D	05/09/24	14:28	4.69	5.18	11.31	12.43
JD87772-2	2G231758.D	05/09/24	14:52	4.69	5.18	11.31	12.43
ZZZZZZ	2G231759.D	05/09/24	15:16	4.69	5.18	11.31	12.44
ZZZZZZ	2G231760.D	05/09/24	15:40	4.69	5.18	11.32	12.43
ZZZZZZ	2G231761.D	05/09/24	16:04	4.69	5.18	11.31	12.43

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Sample: G1G6859-ICC6859
Lab FileID: 1G192517.D

Response Factor Report GC1G

Method : C:\msdchem\1\methods\1PST6859.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Mon Jan 29 09:45:50 2024
Response via : Initial Calibration

Calibration Files
2 =1g192514.d 5 =1g192515.d 10 =1g192516.d 25 =1g192517.d
50 =1g192518.d 100 =1g192520.d 1 =1g192513.d 75 =1g192519.d

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	1.042	0.909	0.906	0.918	0.929	0.937	1.084	0.935	0.958	7.01
3) Hexachlorobe	1.087	1.023	1.036	1.052	1.043	1.042	1.167	1.049	1.062	4.35
4) alpha-BHC	1.179	1.185	1.229	1.358	1.430	1.514	1.328	1.500	1.340	10.04
5) gamma-BHC	1.119	1.088	1.122	1.226	1.277	1.339	1.176	1.322	1.209	8.04
6) Heptachlor	1.245	1.246	1.251	1.328	1.345	1.391	1.266	1.408	1.310	5.11
7) beta-BHC	0.576	0.535	0.532	0.551	0.557	0.575	0.572	0.580	0.560	3.38
8) delta-BHC	0.880	0.836	0.980	1.102	1.170	1.270	0.889	1.261	1.048	16.74
9) Aldrin	1.144	1.105	1.107	1.196	1.231	1.284	1.151	1.279	1.187	6.05
10) Alachlor		0.156	0.150	0.153	0.149	0.149		0.155	0.152	1.95
11) Heptachlor E	1.172	1.108	1.113	1.162	1.172	1.199	1.124	1.195	1.156	3.12
12) gamma-Chlord	1.147	1.097	1.094	1.161	1.181	1.230	1.165	1.217	1.161	4.28
13) alpha-Chlord	1.136	1.098	1.087	1.147	1.156	1.193	1.233	1.186	1.155	4.24
14) Endosulfan I	1.129	1.079	1.092	1.137	1.146	1.179	1.112	1.181	1.132	3.30
15) 4,4'-DDE	0.860	0.840	0.858	0.944	1.005	1.062	0.904	1.045	0.940	9.40
16) Dieldrin	1.114	1.055	1.063	1.133	1.172	1.224	1.071	1.215	1.131	5.95
17) Endrin	1.037	1.007	1.006	1.069	1.101	1.156	1.118	1.144	1.080	5.50
18) 4,4'-DDD	0.794	0.742	0.761	0.819	0.857	0.938	0.758	0.927	0.824	9.24
19) Endosulfan I	1.038	0.947	0.960	0.999	1.016	1.067	1.048	1.060	1.017	4.44
20) 4,4'-DDT	0.657	0.692	0.720	0.801	0.852	0.934	0.644	0.908	0.776	14.65
21) Endrin Aldeh	0.677	0.747	0.727	0.746	0.745	0.734	0.744	0.737	0.732	3.17
22) Endosulfan S	0.973	0.898	0.887	0.920	0.930	0.949	1.046	0.951	0.944	5.30
23) Methoxychlor	0.498	0.482	0.487	0.508	0.510	0.519	0.496	0.522	0.503	2.89
24) Mirex	0.968	0.904	0.882	0.874	0.846	0.830	0.941	0.846	0.886	5.51
25) Endrin Keton	1.045	1.024	1.016	1.075	1.096	1.115	1.030	1.114	1.064	3.84
26) Decachlorobi	1.010	0.985	0.952	0.955	0.932	0.924	1.117	0.929	0.976	6.59
27) I 1-bromo-2-nitrobenzen	ISTD									
28) Toxaphene{A}				0.006					0.006	0.00
29) Toxaphene{B}				0.009					0.009	0.00
30) Toxaphene{C}				0.017					0.017	0.00
31) Toxaphene{D}				0.018					0.018	0.00
32) Toxaphene{E}				0.023					0.023	0.00
33) I 1-bromo-2-nitrobenzen	ISTD									
34) Chlordane {A				0.067					0.067	0.00
35) Chlordane {B				0.040					0.040	0.00
36) Chlordane {C				0.130					0.130	0.00
37) Chlordane {D				0.206					0.206	0.00
38) Chlordane {E				0.030					0.030	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.873	0.572	0.572	0.590	0.580	0.616	0.614	0.591	0.626	16.17

Initial Calibration Summary

Job Number: JD87833 **Sample:** G1G6859-ICC6859
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1G192517.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

3)	Hexachlorobe	1.386	1.402	1.378	1.394	1.377	1.366	1.349	1.367	1.377	1.23
4)	alpha-BHC	1.328	1.282	1.318	1.444	1.512	1.602	1.363	1.564	1.427	8.54
5)	gamma-BHC	1.261	1.186	1.215	1.301	1.353	1.414	1.367	1.384	1.310	6.33
6)	Heptachlor	1.329	1.289	1.322	1.396	1.444	1.494	1.293	1.470	1.380	5.96
7)	beta-BHC	0.502	0.447	0.461	0.490	0.492	0.506	0.592	0.502	0.499	8.61
8)	delta-BHC	1.163	1.091	1.121	1.216	1.286	1.356	1.212	1.314	1.220	7.69
9)	Aldrin	1.231	1.184	1.231	1.306	1.341	1.402	1.145	1.374	1.277	7.27
10)	Alachlor		0.137	0.126	0.124	0.122	0.121		0.121	0.125	5.01
11)	Heptachlor E	1.220	1.139	1.150	1.184	1.211	1.255	1.168	1.233	1.195	3.44
12)	gamma-Chlord	1.208	1.156	1.183	1.216	1.236	1.294	1.154	1.268	1.215	4.15
13)	alpha-Chlord	1.195	1.127	1.135	1.170	1.186	1.232	1.190	1.212	1.181	3.04
14)	Endosulfan I	1.225	1.122	1.120	1.144	1.162	1.202	1.118	1.186	1.160	3.52
15)	4,4'-DDE	1.146	1.039	1.061	1.118	1.143	1.198	1.032	1.170	1.113	5.59
16)	Dieldrin	1.267	1.157	1.186	1.226	1.257	1.313	1.134	1.290	1.229	5.24
17)	Endrin	1.156	1.086	1.090	1.131	1.157	1.220	1.134	1.205	1.147	4.21
18)	4,4'-DDD	0.814	0.787	0.818	0.850	0.866	0.912	0.801	0.903	0.844	5.54
19)	Endosulfan I	1.090	1.002	1.045	1.066	1.075	1.117	0.977	1.125	1.062	4.91
20)	4,4'-DDT	0.614	0.632	0.684	0.749	0.795	0.864	0.589	0.842	0.721	14.77
21)	Endrin Aldeh	0.812	0.769	0.717	0.728	0.730	0.754	0.821	0.753	0.761	5.07
22)	Endosulfan S	0.974	0.870	0.882	0.896	0.908	0.950	0.856	0.940	0.909	4.59
23)	Methoxychlor	0.425	0.425	0.412	0.430	0.435	0.459	0.440	0.450	0.435	3.43
24)	Mirex	0.862	0.772	0.740	0.717	0.692	0.699	0.882	0.699	0.758	9.94
25)	Endrin Keton	1.106	1.028	1.043	1.060	1.056	1.105	0.875	1.109	1.048	7.31
26)	Decachlorobi	1.352	1.020	1.031	1.009	1.012	0.995	1.087	1.012	1.065	11.22

27)	I 1-bromo-2-nitrobenzen	----------ISTD----------		
28)	Toxaphene{A}	0.006	0.006	0.00
29)	Toxaphene{B}	0.027	0.027	0.00
30)	Toxaphene{C}	0.012	0.012	0.00
31)	Toxaphene{D}	0.022	0.022	0.00
32)	Toxaphene{E}	0.019	0.019	0.00

33)	I 1-bromo-2-nitrobenzen	----------ISTD----------		
34)	Chlordane {A	0.068	0.068	0.00
35)	Chlordane {B	0.036	0.036	0.00
36)	Chlordane {C	0.135	0.135	0.00
37)	Chlordane {D	0.214	0.214	0.00
38)	Chlordane {E	0.031	0.031	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

1PST6859.M Mon Jan 29 09:55:34 2024

8.10.1

8

Initial Calibration Verification

Job Number: JD87833 **Sample:** G1G6859-ICV6859
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1G192523.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\1G6859\1g192523.d\ECD1A.CH Vial: 14
Signal #2 : C:\msdchem\1\data\1G6859\1g192523.d\ECD2B.CH
Acq On : 29 Jan 2024 8:45 am Operator: rebeccak
Sample : icv6859-25 (Pest Mix) Inst : GC1G
Misc : op51957,g1g6859,250,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\methods\1PST6859.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Mon Jan 29 09:45:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.27- 1.33
2	SAB	Tetrachloro-m-xylene	0.958	0.893	6.8	103	0.00	1.74- 1.80
3		Hexachlorobenzene	1.062	1.124	-5.8	113	0.00	2.02- 2.08
4	A	alpha-BHC	1.340	1.269	5.3	99	0.00	2.13- 2.19
5	MA	gamma-BHC	1.209	1.129	6.6	97	0.00	2.38- 2.44
6	MA	Heptachlor	1.310	1.248	4.7	99	0.00	2.79- 2.85
7	B	beta-BHC	0.560	0.528	5.7	101	0.00	2.45- 2.51
8	B	delta-BHC	1.048	1.045	0.3	100	0.00	2.61- 2.67
9	MB	Aldrin	1.187	1.122	5.5	99	0.00	3.08- 3.14
10		Alachlor	0.152	0.152	0.0	105	0.00	3.21- 3.27
11	B	Heptachlor Epoxide	1.156	1.084	6.2	98	0.00	3.73- 3.79
12	B	gamma-Chlordane	1.161	1.089	6.2	99	0.00	3.89- 3.95
13	B	alpha-Chlordane	1.155	1.066	7.7	98	0.00	4.04- 4.10
14	A	Endosulfan I	1.132	1.066	5.8	99	0.00	4.21- 4.27
15	B	4,4'-DDE	0.940	0.860	8.5	96	0.00	4.16- 4.22
16	MA	Dieldrin	1.131	1.058	6.5	98	0.00	4.52- 4.58
17	MA	Endrin	1.080	1.012	6.3	100	0.00	4.83- 4.89
18	A	4,4'-DDD	0.824	0.783	5.0	101	0.00	4.97- 5.04
19	B	Endosulfan II	1.017	0.948	6.8	100	0.00	5.15- 5.21
20	MA	4,4'-DDT	0.776	0.753	3.0	99	0.00	5.38- 5.44
21	B	Endrin Aldehyde	0.732	0.776	-6.0	110	0.00	5.78- 5.84
22	B	Endosulfan Sulfate	0.944	0.884	6.4	101	0.00	6.47- 6.53
23	A	Methoxychlor	0.503	0.461	8.3	96	0.00	6.18- 6.24
24		Mirex	0.886	0.962	-8.6	116	0.00	6.29- 6.35
25	B	Endrin Ketone	1.064	1.009	5.2	99	0.00	6.92- 6.98
26	SA	Decachlorobiphenyl	0.976	0.928	4.9	102	0.00	8.81- 8.87
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.20- 1.40
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.20- 1.40
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G6859-ICV6859
Lab FileID: 1G192523.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.23- 1.29
2	SAB	Tetrachloro-m-xylene	0.626	0.576	8.0	102	0.00	1.85- 1.91
3		Hexachlorobenzene	1.377	1.524	-10.7	115	0.00	2.24- 2.30
4	A	alpha-BHC	1.427	1.356	5.0	98	0.00	2.34- 2.40
5	MA	gamma-BHC	1.310	1.217	7.1	98	0.00	2.68- 2.74
6	MA	Heptachlor	1.380	1.334	3.3	100	0.00	3.15- 3.21
7	B	beta-BHC	0.499	0.466	6.6	100	0.00	2.76- 2.82
8	B	delta-BHC	1.220	1.123	8.0	97	0.00	3.07- 3.13
9	MB	Aldrin	1.277	1.238	3.1	99	0.00	3.52- 3.58
10		Alachlor	0.125	0.120	4.0	102	0.00	3.38- 3.44
11	B	Heptachlor Epoxide	1.195	1.123	6.0	99	0.00	4.24- 4.30
12	B	gamma-Chlordane	1.215	1.158	4.7	100	0.00	4.51- 4.57
13	B	alpha-Chlordane	1.181	1.103	6.6	99	0.00	4.71- 4.77
14	A	Endosulfan I	1.160	1.076	7.2	99	0.00	4.79- 4.85
15	B	4,4'-DDE	1.113	1.065	4.3	100	0.00	4.98- 5.04
16	MA	Dieldrin	1.229	1.171	4.7	100	0.00	5.20- 5.26
17	MA	Endrin	1.147	1.083	5.6	100	0.00	5.66- 5.72
18	A	4,4'-DDD	0.844	0.794	5.9	98	0.00	5.89- 5.95
19	B	Endosulfan II	1.062	1.022	3.8	101	0.00	6.01- 6.07
20	MA	4,4'-DDT	0.721	0.710	1.5	99	0.00	6.41- 6.47
21	B	Endrin Aldehyde	0.761	0.762	-0.1	110	0.00	6.57- 6.63
22	B	Endosulfan Sulfate	0.909	0.867	4.6	101	0.00	7.06- 7.12
23	A	Methoxychlor	0.435	0.409	6.0	100	0.00	7.65- 7.71
24		Mirex	0.758	0.803	-5.9	117	0.00	7.90- 7.96
25	B	Endrin Ketone	1.048	1.023	2.4	101	0.00	7.99- 8.05
26	SA	Decachlorobiphenyl	1.065	1.021	4.1	106	0.00	10.22-10.28
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.16- 1.36
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.16- 1.36
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					
36		Chlordane {C}	----------NA----------					
37		Chlordane {D}	----------NA----------					
38		Chlordane {E}	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g192517.d 1PST6859.M Mon Jan 29 09:53:13 2024

8.10.2

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G6859-ICV6859
Lab FileID: 1G192524.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\1G6859\1g192524.d\ECD1A.CH Vial: 15
Signal #2 : C:\msdchem\1\data\1G6859\1g192524.d\ECD2B.CH
Acq On : 29 Jan 2024 9:01 am Operator: rebeccak
Sample : icv6859-500 (Chlordane) Inst : GC1G
Misc : op51957,g1g6859,250,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\methods\1PST6859.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Mon Jan 29 09:45:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.27- 1.33
2	SAB	Tetrachloro-m-xylene	0.958	0.995	-3.9	114	0.00	1.74- 1.80
3		Hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		Alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	0.976	0.944	3.3	108	0.00	8.80- 8.86
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.20- 1.40
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.20- 1.40
34		Chlordane {A}	0.067	0.068	-1.5	107	0.00	2.72- 2.92
35		Chlordane {B}	0.040	0.042	-5.0	109	0.00	3.15- 3.35
36		Chlordane {C}	0.130	0.137	-5.4	111	0.00	3.81- 4.01
37		Chlordane {D}	0.206	0.218	-5.8	112	0.00	3.96- 4.16
38		Chlordane {E}	0.030	0.030	0.0	108	0.00	4.99- 5.19

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G6859-ICV6859
Lab FileID: 1G192524.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.23- 1.29
2	SAB	Tetrachloro-m-xylene	0.626	0.657	-5.0	119	0.00	1.84- 1.90
3		Hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		Alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	1.065	1.066	-0.1	111	0.00	10.21-10.27
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.16- 1.36
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.16- 1.36
34		Chlordane {A}	0.068	0.069	-1.5	107	0.00	3.08- 3.28
35		Chlordane {B}	0.036	0.036	0.0	105	0.00	3.63- 3.83
36		Chlordane {C}	0.135	0.141	-4.4	110	0.00	4.44- 4.64
37		Chlordane {D}	0.214	0.225	-5.1	111	0.00	4.64- 4.84
38		Chlordane {E}	0.031	0.031	0.0	106	0.00	6.01- 6.21

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g192518.d 1PST6859.M Mon Jan 29 09:54:04 2024

8.10.3

8

Initial Calibration Verification

Job Number: JD87833 **Sample:** G1G6859-ICV6859
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1G192525.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\1G6859\1g192525.d\ECD1A.CH Vial: 16
Signal #2 : C:\msdchem\1\data\1G6859\1g192525.d\ECD2B.CH
Acq On : 29 Jan 2024 9:17 am Operator: rebeccak
Sample : icv6859-500 (Toxaphene) Inst : GC1G
Misc : op51957,g1g6859,250,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\methods\1PST6859.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Mon Jan 29 09:45:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.27- 1.33
2	SAB	Tetrachloro-m-xylene	0.958	0.920	4.0	105	0.00	1.74- 1.80
3		Hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		Alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	0.976	0.922	5.5	105	0.00	8.80- 8.86
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.20- 1.40
28	L8	Toxaphene{A}	0.006	0.006	0.0	102	0.00	3.95- 4.15
29	L8	Toxaphene{B}	0.009	0.008	11.1	97	0.00	4.58- 4.78
30	L8	Toxaphene{C}	0.017	0.018	-5.9	106	0.00	5.25- 5.45
31	L8	Toxaphene{D}	0.018	0.019	-5.6	106	0.00	5.59- 5.79
32	L8	Toxaphene{E}	0.023	0.024	-4.3	104	0.00	6.24- 6.44
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.20- 1.40
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

8.10.4

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G6859-ICV6859
Lab FileID: 1G192525.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.23- 1.29
2	SAB	Tetrachloro-m-xylene	0.626	0.606	3.2	109	0.00	1.84- 1.90
3		Hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		Alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	1.065	1.006	5.5	104	0.00	10.21-10.27
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.16- 1.36
28	L8	Toxaphene{A}	0.006	0.006	0.0	96	0.00	5.28- 5.48
29	L8	Toxaphene{B}	0.027	0.027	0.0	98	0.00	6.08- 6.28
30	L8	Toxaphene{C}	0.012	0.012	0.0	99	0.00	6.39- 6.59
31	L8	Toxaphene{D}	0.022	0.022	0.0	100	0.00	6.52- 6.72
32	L8	Toxaphene{E}	0.019	0.020	-5.3	103	0.00	7.40- 7.60
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.16- 1.36
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g192518.d 1PST6859.M Mon Jan 29 09:54:16 2024

8.10.4

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G1G7004-CC6859
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1G196193.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\1G7004\1g196193.D\ECD1A.CH Vial: 4
Signal #2 : C:\msdchem\1\data\1G7004\1g196193.D\ECD2B.CH
Acq On : 07 May 2024 11:51 pm Operator: christp
Sample : cc6859-50 Inst : GC1G
Misc : op54355,g1g7004,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\methods\1PST6859a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 24 15:50:16 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	88	0.00	1.20- 1.26
2	SAB	Tetrachloro-m-xylene	0.958	1.009	-5.3	95	0.00	1.67- 1.73
3		Hexachlorobenzene	1.062	1.346	-26.7#	113	0.00	1.94- 2.00
4	A	alpha-BHC	1.340	1.471	-9.8	90	0.00	2.04- 2.10
5	MA	gamma-BHC	1.209	1.217	-0.7	84	0.00	2.28- 2.34
6	MA	Heptachlor	1.310	1.324	-1.1	86	-0.01	2.68- 2.74
7	B	beta-BHC	0.560	0.544	2.9	86	0.00	2.37- 2.43
8	B	delta-BHC	1.048	0.856	18.3	64	0.00	2.52- 2.58
9	MB	Aldrin	1.187	1.259	-6.1	90	-0.01	2.96- 3.02
10		Alachlor	0.152	0.151	0.7	89	-0.01	3.09- 3.15
11	B	Heptachlor Epoxide	1.156	1.152	0.3	86	-0.02	3.59- 3.65
12	B	gamma-Chlordane	1.161	1.149	1.0	85	-0.02	3.74- 3.80
13	B	alpha-Chlordane	1.155	1.143	1.0	87	-0.02	3.89- 3.95
14	A	Endosulfan I	1.132	1.209	-6.8	92	-0.02	4.05- 4.11
15	B	4,4'-DDE	0.940	1.000	-6.4	87	-0.02	4.02- 4.08
16	MA	Dieldrin	1.131	1.185	-4.8	89	-0.02	4.35- 4.41
17	MA	Endrin	1.080	1.137	-5.3	90	-0.02	4.66- 4.72
18	A	4,4'-DDD	0.824	0.863	-4.7	88	-0.02	4.81- 4.88
19	B	Endosulfan II	1.017	0.999	1.8	86	-0.02	4.98- 5.04
20	MA	4,4'-DDT	0.776	0.758	2.3	78	-0.02	5.20- 5.26
21	B	Endrin Aldehyde	0.732	0.660	9.8	78	-0.02	5.58- 5.64
22	B	Endosulfan Sulfate	0.944	0.779	17.5	73	-0.03	6.25- 6.31
23	A	Methoxychlor	0.503	0.487	3.2	84	-0.02	6.00- 6.06
24		Mirex	0.886	0.865	2.4	90	-0.03	6.09- 6.15
25	B	Endrin Ketone	1.064	0.880	17.3	70	-0.03	6.70- 6.76
26	SA	Decachlorobiphenyl	0.976	1.068	-9.4	101	-0.03	8.58- 8.64
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	83	0.00	1.13- 1.33
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	88	0.00	1.13- 1.33
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Continuing Calibration Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G7004-CC6859
Lab FileID: 1G196193.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	125	0.00	1.11- 1.17
2	SAB	Tetrachloro-m-xylene	0.626	0.636	-1.6	137	-0.01	1.70- 1.76
3		Hexachlorobenzene	1.377	1.371	0.4	125	-0.02	2.08- 2.14
4	A	alpha-BHC	1.427	1.520	-6.5	126	-0.02	2.18- 2.24
5	MA	gamma-BHC	1.310	1.252	4.4	116	-0.02	2.50- 2.56
6	MA	Heptachlor	1.380	1.423	-3.1	123	-0.02	2.94- 3.00
7	B	beta-BHC	0.499	0.460	7.8	117	-0.02	2.58- 2.64
8	B	delta-BHC	1.220	0.987	19.1	96	-0.02	2.88- 2.94
9	MB	Aldrin	1.277	1.343	-5.2	125	-0.03	3.30- 3.36
10		Alachlor	0.125	0.121	3.2	124	-0.02	3.17- 3.23
11	B	Heptachlor Epoxide	1.195	1.140	4.6	118	-0.03	3.99- 4.05
12	B	gamma-Chlordane	1.215	1.173	3.5	119	-0.03	4.25- 4.31
13	B	alpha-Chlordane	1.181	1.143	3.2	121	-0.04	4.45- 4.51
14	A	Endosulfan I	1.160	1.100	5.2	119	-0.04	4.52- 4.58
15	B	4,4'-DDE	1.113	1.131	-1.6	124	-0.04	4.71- 4.77
16	MA	Dieldrin	1.229	1.223	0.5	122	-0.04	4.91- 4.97
17	MA	Endrin	1.147	1.144	0.3	124	-0.04	5.36- 5.42
18	A	4,4'-DDD	0.844	0.851	-0.8	123	-0.04	5.60- 5.66
19	B	Endosulfan II	1.062	1.010	4.9	118	-0.04	5.71- 5.77
20	MA	4,4'-DDT	0.721	0.692	4.0	109	-0.05	6.10- 6.16
21	B	Endrin Aldehyde	0.761	0.642	15.6	110	-0.04	6.25- 6.31
22	B	Endosulfan Sulfate	0.909	0.759	16.5	105	-0.05	6.73- 6.79
23	A	Methoxychlor	0.435	0.411	5.5	118	-0.05	7.32- 7.38
24		Mirex	0.758	0.664	12.4	120	-0.05	7.54- 7.60
25	B	Endrin Ketone	1.048	0.824	21.4#	98	-0.05	7.63- 7.69
26	SA	Decachlorobiphenyl	1.065	0.987	7.3	122	-0.05	9.92- 9.98
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	121	-0.01	1.04- 1.24
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	127	-0.01	1.04- 1.24
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					
36		Chlordane {C}	----------NA----------					
37		Chlordane {D}	----------NA----------					
38		Chlordane {E}	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g195781.D 1PST6859a.M Wed May 08 19:34:07 2024

8.10.5 8

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G1G7004-CC6859
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1G196214.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\1G7004\1g196214.D\ECD1A.CH Vial: 2
Signal #2 : C:\msdchem\1\data\1G7004\1g196214.D\ECD2B.CH
Acq On : 08 May 2024 5:15 am Operator: christp
Sample : cc6859-25 Inst : GC1G
Misc : op54397,g1g7004,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\methods\1PST6859a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 24 15:50:16 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	77	0.00	1.21- 1.27
2	SAB	Tetrachloro-m-xylene	0.958	0.980	-2.3	82	0.00	1.67- 1.73
3		Hexachlorobenzene	1.062	1.313	-23.6#	96	0.00	1.95- 2.01
4	A	alpha-BHC	1.340	1.362	-1.6	77	0.00	2.04- 2.10
5	MA	gamma-BHC	1.209	1.200	0.7	75	0.00	2.29- 2.35
6	MA	Heptachlor	1.310	1.325	-1.1	77	-0.01	2.68- 2.74
7	B	beta-BHC	0.560	0.532	5.0	74	0.00	2.38- 2.44
8	B	delta-BHC	1.048	0.877	16.3	61	0.00	2.54- 2.60
9	MB	Aldrin	1.187	1.264	-6.5	81	-0.01	2.96- 3.02
10		Alachlor	0.152	0.157	-3.3	79	0.00	3.10- 3.16
11	B	Heptachlor Epoxide	1.156	1.238	-7.1	82	-0.01	3.59- 3.65
12	B	gamma-Chlordane	1.161	1.232	-6.1	81	-0.01	3.74- 3.80
13	B	alpha-Chlordane	1.155	1.208	-4.6	81	-0.02	3.90- 3.96
14	A	Endosulfan I	1.132	1.497	-32.2#	101	-0.02	4.05- 4.11
15	B	4,4'-DDE	0.940	0.716	23.8#	58	0.00	4.03- 4.09
16	MA	Dieldrin	1.131	1.196	-5.7	81	-0.02	4.36- 4.42
17	MA	Endrin	1.080	1.121	-3.8	80	-0.02	4.66- 4.72
18	A	4,4'-DDD	0.824	0.863	-4.7	81	0.00	4.83- 4.90
19	B	Endosulfan II	1.017	1.009	0.8	77	-0.02	4.98- 5.04
20	MA	4,4'-DDT	0.776	0.769	0.9	74	-0.01	5.21- 5.27
21	B	Endrin Aldehyde	0.732	0.713	2.6	73	-0.02	5.59- 5.65
22	B	Endosulfan Sulfate	0.944	0.793	16.0	66	-0.02	6.26- 6.32
23	A	Methoxychlor	0.503	0.471	6.4	71	0.00	6.02- 6.08
24		Mirex	0.886	1.017	-14.8	89	-0.02	6.09- 6.15
25	B	Endrin Ketone	1.064	0.878	17.5	63	-0.02	6.71- 6.77
26	SA	Decachlorobiphenyl	0.976	1.138	-16.6	91	-0.02	8.59- 8.65
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	77	0.00	1.14- 1.34
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	77	0.00	1.14- 1.34
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G1G7004-CC6859
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1G196214.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	1.11- 1.17
2	SAB	Tetrachloro-m-xylene	0.626	0.631	-0.8	110	-0.01	1.71- 1.77
3		Hexachlorobenzene	1.377	1.386	-0.7	102	-0.01	2.08- 2.14
4	A	alpha-BHC	1.427	1.447	-1.4	103	-0.02	2.18- 2.24
5	MA	gamma-BHC	1.310	1.278	2.4	101	-0.02	2.50- 2.56
6	MA	Heptachlor	1.380	1.456	-5.5	107	-0.02	2.94- 3.00
7	B	beta-BHC	0.499	0.442	11.4	93	-0.01	2.59- 2.65
8	B	delta-BHC	1.220	1.014	16.9	86	-0.02	2.89- 2.95
9	MB	Aldrin	1.277	1.335	-4.5	105	-0.03	3.30- 3.36
10		Alachlor	0.125	0.123	1.6	102	-0.02	3.17- 3.23
11	B	Heptachlor Epoxide	1.195	1.167	2.3	102	-0.03	3.99- 4.05
12	B	gamma-Chlordane	1.215	1.198	1.4	101	-0.03	4.25- 4.31
13	B	alpha-Chlordane	1.181	1.182	-0.1	104	-0.04	4.45- 4.51
14	A	Endosulfan I	1.160	1.140	1.7	103	-0.04	4.52- 4.58
15	B	4,4'-DDE	1.113	1.125	-1.1	104	-0.03	4.71- 4.77
16	MA	Dieldrin	1.229	1.228	0.1	103	-0.04	4.91- 4.97
17	MA	Endrin	1.147	1.138	0.8	104	-0.04	5.36- 5.42
18	A	4,4'-DDD	0.844	0.826	2.1	100	-0.03	5.60- 5.66
19	B	Endosulfan II	1.062	1.028	3.2	99	-0.04	5.71- 5.77
20	MA	4,4'-DDT	0.721	0.692	4.0	95	-0.04	6.10- 6.16
21	B	Endrin Aldehyde	0.761	0.681	10.5	96	-0.04	6.26- 6.32
22	B	Endosulfan Sulfate	0.909	0.752	17.3	86	-0.04	6.73- 6.79
23	A	Methoxychlor	0.435	0.423	2.8	101	-0.04	7.33- 7.39
24		Mirex	0.758	0.731	3.6	105	-0.05	7.55- 7.61
25	B	Endrin Ketone	1.048	0.813	22.4#	79	-0.05	7.64- 7.70
26	SA	Decachlorobiphenyl	1.065	1.017	4.5	104	-0.05	9.92- 9.98
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	1.04- 1.24
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	1.04- 1.24
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					
36		Chlordane {C}	----------NA----------					
37		Chlordane {D}	----------NA----------					
38		Chlordane {E}	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g195816.D 1PST6859a.M Wed May 08 19:35:28 2024

8.10.6

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G1G7013-CC6859
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1G196352.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\ch...3\1g196352.d\ECD1A.CH Vial: 2
Signal #2 : C:\msdchem\1\data\chrisc2\1G7013\1g196352.d\ECD2B.CH
Acq On : 14-May-24, 08:13:33 Operator: rebeccak
Sample : cc6859-25 Inst : GC1G
Misc : op54560,g1g7013,950,,,5,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...7013\1PST6859a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed May 15 07:20:57 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	75	0.00	1.19- 1.25
2	SAB	Tetrachloro-m-xylene	0.958	0.906	5.4	74	0.00	1.66- 1.72
3		Hexachlorobenzene	1.062	1.416	-33.3#	101	0.00	1.93- 1.99
4	A	alpha-BHC	1.340	1.353	-1.0	75	0.00	2.03- 2.09
5	MA	gamma-BHC	1.209	1.204	0.4	73	0.00	2.28- 2.34
6	MA	Heptachlor	1.310	1.330	-1.5	75	0.00	2.68- 2.74
7	B	beta-BHC	0.560	0.503	10.2	68	0.00	2.36- 2.42
8	B	delta-BHC	1.048	1.124	-7.3	76	0.00	2.52- 2.58
9	MB	Aldrin	1.187	1.227	-3.4	77	0.00	2.96- 3.02
10		Alachlor	0.152	0.157	-3.3	77	0.00	3.09- 3.15
11	B	Heptachlor Epoxide	1.156	1.200	-3.8	77	0.00	3.59- 3.65
12	B	gamma-Chlordane	1.161	1.217	-4.8	78	0.00	3.74- 3.80
13	B	alpha-Chlordane	1.155	1.211	-4.8	79	0.00	3.90- 3.96
14	A	Endosulfan I	1.132	1.199	-5.9	79	0.00	4.06- 4.12
15	B	4,4'-DDE	0.940	1.098	-16.8	87	0.00	4.01- 4.07
16	MA	Dieldrin	1.131	1.236	-9.3	82	0.00	4.36- 4.42
17	MA	Endrin	1.080	1.193	-10.5	83	0.00	4.66- 4.72
18	A	4,4'-DDD	0.824	0.955	-15.9	87	0.00	4.81- 4.88
19	B	Endosulfan II	1.017	1.112	-9.3	83	0.00	4.98- 5.04
20	MA	4,4'-DDT	0.776	0.906	-16.8	85	0.00	5.20- 5.26
21	B	Endrin Aldehyde	0.732	0.777	-6.1	78	0.00	5.58- 5.64
22	B	Endosulfan Sulfate	0.944	1.001	-6.0	81	0.00	6.25- 6.31
23	A	Methoxychlor	0.503	0.594	-18.1	87	0.00	5.99- 6.05
24		Mirex	0.886	0.972	-9.7	83	0.00	6.09- 6.15
25	B	Endrin Ketone	1.064	1.216	-14.3	85	0.00	6.70- 6.76
26	SA	Decachlorobiphenyl	0.976	1.255	-28.6#	98	0.00	8.58- 8.64
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	75	0.00	1.12- 1.32
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	75	0.00	1.12- 1.32
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Continuing Calibration Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G7013-CC6859
Lab FileID: 1G196352.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	1.10- 1.16
2	SAB	Tetrachloro-m-xylene	0.626	0.597	4.6	104	0.00	1.69- 1.75
3		Hexachlorobenzene	1.377	1.355	1.6	100	0.00	2.07- 2.13
4	A	alpha-BHC	1.427	1.447	-1.4	103	0.00	2.17- 2.23
5	MA	gamma-BHC	1.310	1.330	-1.5	105	0.00	2.49- 2.55
6	MA	Heptachlor	1.380	1.422	-3.0	105	0.00	2.94- 3.00
7	B	beta-BHC	0.499	0.474	5.0	100	0.00	2.58- 2.64
8	B	delta-BHC	1.220	1.283	-5.2	109	0.00	2.88- 2.94
9	MB	Aldrin	1.277	1.329	-4.1	105	0.00	3.30- 3.36
10		Alachlor	0.125	0.125	0.0	104	0.00	3.16- 3.22
11	B	Heptachlor Epoxide	1.195	1.219	-2.0	106	0.00	3.99- 4.05
12	B	gamma-Chlordane	1.215	1.225	-0.8	104	0.00	4.25- 4.31
13	B	alpha-Chlordane	1.181	1.200	-1.6	106	0.00	4.44- 4.50
14	A	Endosulfan I	1.160	1.183	-2.0	107	0.00	4.52- 4.58
15	B	4,4'-DDE	1.113	1.156	-3.9	107	0.00	4.70- 4.76
16	MA	Dieldrin	1.229	1.282	-4.3	108	0.00	4.91- 4.97
17	MA	Endrin	1.147	1.211	-5.6	110	0.00	5.36- 5.42
18	A	4,4'-DDD	0.844	0.927	-9.8	112	0.00	5.59- 5.65
19	B	Endosulfan II	1.062	1.117	-5.2	108	0.00	5.70- 5.76
20	MA	4,4'-DDT	0.721	0.822	-14.0	113	0.00	6.09- 6.15
21	B	Endrin Aldehyde	0.761	0.740	2.8	105	0.00	6.25- 6.31
22	B	Endosulfan Sulfate	0.909	0.971	-6.8	112	0.00	6.72- 6.78
23	A	Methoxychlor	0.435	0.499	-14.7	120	0.00	7.31- 7.37
24		Mirex	0.758	0.735	3.0	106	0.00	7.54- 7.60
25	B	Endrin Ketone	1.048	1.150	-9.7	112	0.00	7.63- 7.69
26	SA	Decachlorobiphenyl	1.065	1.117	-4.9	114	0.00	9.92- 9.98
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	1.03- 1.23
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	1.03- 1.23
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					
36		Chlordane {C}	----------NA----------					
37		Chlordane {D}	----------NA----------					
38		Chlordane {E}	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g196080.D 1PST6859a.M Wed May 15 08:09:42 2024

Continuing Calibration Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G7013-CC6859
Lab FileID: 1G196372.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\1G7013\1g196372.d\ECD1A.CH Vial: 4
Signal #2 : C:\msdchem\1\data\1G7013\1g196372.d\ECD2B.CH
Acq On : 14-May-24, 13:28:43 Operator: rebeccak
Sample : cc6859-50 Inst : GC1G
Misc : op54397a,g1g7013,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...7013\1PST6859a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed May 15 07:20:57 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	92	0.00	1.19- 1.25
2	SAB	Tetrachloro-m-xylene	0.958	0.968	-1.0	96	0.00	1.65- 1.71
3		Hexachlorobenzene	1.062	1.378	-29.8#	121	0.00	1.93- 1.99
4	A	alpha-BHC	1.340	1.506	-12.4	97	0.00	2.03- 2.09
5	MA	gamma-BHC	1.209	1.323	-9.4	95	0.00	2.27- 2.33
6	MA	Heptachlor	1.310	1.414	-7.9	97	0.00	2.67- 2.73
7	B	beta-BHC	0.560	0.564	-0.7	93	0.00	2.36- 2.42
8	B	delta-BHC	1.048	1.169	-11.5	92	0.00	2.51- 2.57
9	MB	Aldrin	1.187	1.340	-12.9	100	0.00	2.95- 3.01
10		Alachlor	0.152	0.159	-4.6	98	0.00	3.08- 3.14
11	B	Heptachlor Epoxide	1.156	1.287	-11.3	101	-0.01	3.58- 3.64
12	B	gamma-Chlordane	1.161	1.328	-14.4	103	-0.01	3.73- 3.79
13	B	alpha-Chlordane	1.155	1.313	-13.7	104	-0.01	3.88- 3.94
14	A	Endosulfan I	1.132	1.423	-25.7#	114	-0.01	4.04- 4.10
15	B	4,4'-DDE	0.940	1.042	-10.9	95	0.00	4.01- 4.07
16	MA	Dieldrin	1.131	1.334	-17.9	105	-0.01	4.35- 4.41
17	MA	Endrin	1.080	1.272	-17.8	106	-0.01	4.65- 4.71
18	A	4,4'-DDD	0.824	0.976	-18.4	105	0.00	4.80- 4.87
19	B	Endosulfan II	1.017	1.190	-17.0	108	-0.01	4.97- 5.03
20	MA	4,4'-DDT	0.776	0.985	-26.9#	106	0.00	5.19- 5.25
21	B	Endrin Aldehyde	0.732	0.806	-10.1	99	0.00	5.57- 5.63
22	B	Endosulfan Sulfate	0.944	1.069	-13.2	106	0.00	6.24- 6.30
23	A	Methoxychlor	0.503	0.586	-16.5	106	0.00	5.99- 6.05
24		Mirex	0.886	1.068	-20.5#	116	-0.01	6.08- 6.14
25	B	Endrin Ketone	1.064	1.307	-22.8#	109	0.00	6.69- 6.75
26	SA	Decachlorobiphenyl	0.976	1.303	-33.5#	128	0.00	8.57- 8.63
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	87	0.00	1.12- 1.32
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	91	0.00	1.12- 1.32
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G1G7013-CC6859
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1G196372.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	129	0.00	1.10- 1.16
2	SAB	Tetrachloro-m-xylene	0.626	0.607	3.0	135	0.00	1.69- 1.75
3		Hexachlorobenzene	1.377	1.304	5.3	122	0.00	2.07- 2.13
4	A	alpha-BHC	1.427	1.552	-8.8	133	0.00	2.17- 2.23
5	MA	gamma-BHC	1.310	1.384	-5.6	132	0.00	2.49- 2.55
6	MA	Heptachlor	1.380	1.475	-6.9	132	0.00	2.94- 3.00
7	B	beta-BHC	0.499	0.488	2.2	128	0.00	2.58- 2.64
8	B	delta-BHC	1.220	1.267	-3.9	127	0.00	2.88- 2.94
9	MB	Aldrin	1.277	1.380	-8.1	133	0.00	3.29- 3.35
10		Alachlor	0.125	0.122	2.4	130	0.00	3.16- 3.22
11	B	Heptachlor Epoxide	1.195	1.271	-6.4	136	0.00	3.99- 4.05
12	B	gamma-Chlordane	1.215	1.290	-6.2	135	0.00	4.24- 4.30
13	B	alpha-Chlordane	1.181	1.253	-6.1	137	0.00	4.44- 4.50
14	A	Endosulfan I	1.160	1.214	-4.7	135	0.00	4.51- 4.57
15	B	4,4'-DDE	1.113	1.186	-6.6	134	0.00	4.70- 4.76
16	MA	Dieldrin	1.229	1.344	-9.4	138	0.00	4.90- 4.96
17	MA	Endrin	1.147	1.258	-9.7	140	0.00	5.35- 5.41
18	A	4,4'-DDD	0.844	0.935	-10.8	140	0.00	5.59- 5.65
19	B	Endosulfan II	1.062	1.171	-10.3	141	0.00	5.70- 5.76
20	MA	4,4'-DDT	0.721	0.864	-19.8	141	0.00	6.09- 6.15
21	B	Endrin Aldehyde	0.761	0.763	-0.3	135	0.00	6.25- 6.31
22	B	Endosulfan Sulfate	0.909	1.008	-10.9	143	0.00	6.72- 6.78
23	A	Methoxychlor	0.435	0.493	-13.3	146	0.00	7.31- 7.37
24		Mirex	0.758	0.753	0.7	141	0.00	7.54- 7.60
25	B	Endrin Ketone	1.048	1.149	-9.6	141	0.00	7.63- 7.69
26	SA	Decachlorobiphenyl	1.065	1.145	-7.5	146	0.00	9.91- 9.97
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	124	0.00	1.03- 1.23
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	130	0.00	1.03- 1.23
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					
36		Chlordane {C}	----------NA----------					
37		Chlordane {D}	----------NA----------					
38		Chlordane {E}	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g196250.d 1PST6859a.M Wed May 15 11:31:38 2024

8.10.8

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G1G7016-CC6859
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1G196428.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\1G7016\1g196428.d\ECD1A.CH Vial: 2
Signal #2 : C:\msdchem\1\data\1G7016\1g196428.d\ECD2B.CH
Acq On : 15 May 2024 10:36 am Operator: mahalial
Sample : cc6859-25 Inst : GC1G
Misc : op54640,g1g7016,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\methods\1PST6859a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed May 15 14:04:07 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	74	0.00	1.20- 1.26
2	SAB	Tetrachloro-m-xylene	0.958	0.901	5.9	72	0.00	1.66- 1.72
3		Hexachlorobenzene	1.062	1.371	-29.1#	96	0.00	1.94- 2.00
4	A	alpha-BHC	1.340	1.337	0.2	73	0.00	2.04- 2.10
5	MA	gamma-BHC	1.209	1.189	1.7	72	0.00	2.28- 2.34
6	MA	Heptachlor	1.310	1.289	1.6	72	0.00	2.67- 2.73
7	B	beta-BHC	0.560	0.487	13.0	65	0.00	2.37- 2.43
8	B	delta-BHC	1.048	1.069	-2.0	72	0.00	2.53- 2.59
9	MB	Aldrin	1.187	1.191	-0.3	74	0.00	2.96- 3.02
10		Alachlor	0.152	0.135	11.2	65	0.00	3.09- 3.15
11	B	Heptachlor Epoxide	1.156	1.152	0.3	73	0.00	3.58- 3.64
12	B	gamma-Chlordane	1.161	1.171	-0.9	74	0.00	3.73- 3.79
13	B	alpha-Chlordane	1.155	1.172	-1.5	75	0.00	3.89- 3.95
14	A	Endosulfan I	1.132	1.358	-20.0	88	0.00	4.05- 4.11
15	B	4,4'-DDE	0.940	0.869	7.6	68	0.00	4.02- 4.08
16	MA	Dieldrin	1.131	1.164	-2.9	76	0.00	4.35- 4.41
17	MA	Endrin	1.080	1.124	-4.1	78	0.00	4.65- 4.71
18	A	4,4'-DDD	0.824	0.867	-5.2	78	0.00	4.82- 4.89
19	B	Endosulfan II	1.017	1.043	-2.6	77	0.00	4.97- 5.03
20	MA	4,4'-DDT	0.776	0.781	-0.6	72	0.00	5.20- 5.26
21	B	Endrin Aldehyde	0.732	0.734	-0.3	73	0.00	5.58- 5.64
22	B	Endosulfan Sulfate	0.944	0.919	2.6	74	0.00	6.25- 6.31
23	A	Methoxychlor	0.503	0.461	8.3	67	0.00	6.01- 6.07
24		Mirex	0.886	0.957	-8.0	81	0.00	6.08- 6.14
25	B	Endrin Ketone	1.064	1.128	-6.0	77	0.00	6.70- 6.76
26	SA	Decachlorobiphenyl	0.976	1.167	-19.6	90	0.00	8.57- 8.63
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	74	0.00	1.13- 1.33
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	74	0.00	1.13- 1.33
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Continuing Calibration Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G7016-CC6859
Lab FileID: 1G196428.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	1.11- 1.17
2	SAB	Tetrachloro-m-xylene	0.626	0.609	2.7	106	0.00	1.70- 1.76
3		Hexachlorobenzene	1.377	1.335	3.1	98	0.00	2.08- 2.14
4	A	alpha-BHC	1.427	1.503	-5.3	107	0.00	2.17- 2.23
5	MA	gamma-BHC	1.310	1.351	-3.1	107	0.00	2.49- 2.55
6	MA	Heptachlor	1.380	1.496	-8.4	110	0.00	2.94- 3.00
7	B	beta-BHC	0.499	0.486	2.6	102	0.00	2.58- 2.64
8	B	delta-BHC	1.220	1.221	-0.1	103	0.00	2.88- 2.94
9	MB	Aldrin	1.277	1.365	-6.9	107	0.00	3.30- 3.36
10		Alachlor	0.125	0.115	8.0	95	0.00	3.16- 3.22
11	B	Heptachlor Epoxide	1.195	1.236	-3.4	107	0.00	3.99- 4.05
12	B	gamma-Chlordane	1.215	1.244	-2.4	105	0.00	4.24- 4.30
13	B	alpha-Chlordane	1.181	1.223	-3.6	107	0.00	4.44- 4.50
14	A	Endosulfan I	1.160	1.189	-2.5	107	0.00	4.52- 4.58
15	B	4,4'-DDE	1.113	1.151	-3.4	106	0.00	4.70- 4.76
16	MA	Dieldrin	1.229	1.316	-7.1	110	0.00	4.91- 4.97
17	MA	Endrin	1.147	1.234	-7.6	112	0.00	5.36- 5.42
18	A	4,4'-DDD	0.844	0.905	-7.2	109	0.00	5.60- 5.66
19	B	Endosulfan II	1.062	1.133	-6.7	109	0.00	5.70- 5.76
20	MA	4,4'-DDT	0.721	0.799	-10.8	110	0.00	6.10- 6.16
21	B	Endrin Aldehyde	0.761	0.717	5.8	101	0.00	6.25- 6.31
22	B	Endosulfan Sulfate	0.909	0.942	-3.6	108	0.00	6.72- 6.78
23	A	Methoxychlor	0.435	0.454	-4.4	109	0.00	7.32- 7.38
24		Mirex	0.758	0.744	1.8	107	0.00	7.54- 7.60
25	B	Endrin Ketone	1.048	1.111	-6.0	108	0.00	7.63- 7.69
26	SA	Decachlorobiphenyl	1.065	1.098	-3.1	112	0.00	9.92- 9.98
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	1.04- 1.24
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	1.04- 1.24
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					
36		Chlordane {C}	----------NA----------					
37		Chlordane {D}	----------NA----------					
38		Chlordane {E}	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g195816.D 1PST6859a.M Wed May 15 14:11:20 2024

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G1G7016-CC6859
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1G196437.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\1G7016\1g196437.d\ECD1A.CH Vial: 4
Signal #2 : C:\msdchem\1\data\1G7016\1g196437.d\ECD2B.CH
Acq On : 15 May 2024 1:42 pm Operator: mahalial
Sample : cc6859-50 Inst : GC1G
Misc : op54620,g1g7016,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\methods\1PST6859a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed May 15 14:04:07 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.21- 1.27
2	SAB	Tetrachloro-m-xylene	0.958	0.915	4.5	99	0.00	1.66- 1.72
3		Hexachlorobenzene	1.062	1.282	-20.7#	124	0.00	1.94- 2.00
4	A	alpha-BHC	1.340	1.405	-4.9	99	0.00	2.04- 2.10
5	MA	gamma-BHC	1.209	1.207	0.2	95	0.00	2.28- 2.34
6	MA	Heptachlor	1.310	1.342	-2.4	100	0.00	2.68- 2.74
7	B	beta-BHC	0.560	0.537	4.1	97	0.00	2.38- 2.44
8	B	delta-BHC	1.048	1.085	-3.5	93	0.00	2.53- 2.59
9	MB	Aldrin	1.187	1.231	-3.7	101	0.00	2.96- 3.02
10		Alachlor	0.152	0.140	7.9	94	0.00	3.09- 3.15
11	B	Heptachlor Epoxide	1.156	1.176	-1.7	101	0.00	3.59- 3.65
12	B	gamma-Chlordane	1.161	1.209	-4.1	103	0.00	3.74- 3.80
13	B	alpha-Chlordane	1.155	1.186	-2.7	103	0.00	3.89- 3.95
14	A	Endosulfan I	1.132	2.248	-98.6#	197#	0.00	4.05- 4.11
15	B	4,4'-DDE	0.940	2.261	-140.5#	226#	0.03	4.05- 4.11
16	MA	Dieldrin	1.131	1.206	-6.6	104	0.00	4.35- 4.41
17	MA	Endrin	1.080	1.149	-6.4	105	0.00	4.65- 4.71
18	A	4,4'-DDD	0.824	0.800	2.9	94	0.02	4.84- 4.91
19	B	Endosulfan II	1.017	1.134	-11.5	112	0.00	4.98- 5.04
20	MA	4,4'-DDT	0.776	0.835	-7.6	99	0.00	5.21- 5.27
21	B	Endrin Aldehyde	0.732	0.773	-5.6	105	0.00	5.58- 5.64
22	B	Endosulfan Sulfate	0.944	0.949	-0.5	103	0.00	6.25- 6.31
23	A	Methoxychlor	0.503	0.360	28.4#	71	0.02	6.02- 6.08
24		Mirex	0.886	1.052	-18.7	125	0.00	6.08- 6.14
25	B	Endrin Ketone	1.064	1.151	-8.2	106	0.00	6.70- 6.76
26	SA	Decachlorobiphenyl	0.976	1.101	-12.8	119	0.00	8.58- 8.64
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	95	0.00	1.14- 1.34
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.14- 1.34
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

8.10.10

8

Continuing Calibration Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G7016-CC6859
Lab FileID: 1G196437.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	132	0.00	1.11- 1.17
2	SAB	Tetrachloro-m-xylene	0.626	0.602	3.8	137	0.00	1.70- 1.76
3		Hexachlorobenzene	1.377	1.316	4.4	126	0.00	2.08- 2.14
4	A	alpha-BHC	1.427	1.575	-10.4	137	0.00	2.17- 2.23
5	MA	gamma-BHC	1.310	1.371	-4.7	133	0.00	2.50- 2.56
6	MA	Heptachlor	1.380	1.555	-12.7	142	0.00	2.94- 3.00
7	B	beta-BHC	0.499	0.503	-0.8	134	0.00	2.59- 2.65
8	B	delta-BHC	1.220	1.170	4.1	120	0.00	2.89- 2.95
9	MB	Aldrin	1.277	1.375	-7.7	135	0.00	3.30- 3.36
10		Alachlor	0.125	0.115	8.0	124	0.00	3.17- 3.23
11	B	Heptachlor Epoxide	1.195	1.249	-4.5	136	0.00	3.99- 4.05
12	B	gamma-Chlordane	1.215	1.253	-3.1	133	0.00	4.25- 4.31
13	B	alpha-Chlordane	1.181	1.217	-3.0	135	0.00	4.44- 4.50
14	A	Endosulfan I	1.160	1.191	-2.7	135	0.00	4.52- 4.58
15	B	4,4'-DDE	1.113	1.157	-4.0	133	0.00	4.71- 4.77
16	MA	Dieldrin	1.229	1.303	-6.0	136	0.00	4.91- 4.97
17	MA	Endrin	1.147	1.217	-6.1	138	0.00	5.36- 5.42
18	A	4,4'-DDD	0.844	0.839	0.6	127	0.00	5.61- 5.67
19	B	Endosulfan II	1.062	1.160	-9.2	142	0.00	5.70- 5.76
20	MA	4,4'-DDT	0.721	0.816	-13.2	135	0.00	6.10- 6.16
21	B	Endrin Aldehyde	0.761	0.708	7.0	128	0.00	6.25- 6.31
22	B	Endosulfan Sulfate	0.909	0.928	-2.1	135	0.00	6.72- 6.78
23	A	Methoxychlor	0.435	0.444	-2.1	134	0.00	7.33- 7.39
24		Mirex	0.758	0.724	4.5	138	0.00	7.54- 7.60
25	B	Endrin Ketone	1.048	1.111	-6.0	139	0.00	7.63- 7.69
26	SA	Decachlorobiphenyl	1.065	1.093	-2.6	142	0.00	9.92- 9.98
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	126	0.00	1.04- 1.24
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	133	0.00	1.04- 1.24
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g195781.D 1PST6859a.M Wed May 15 14:23:43 2024

8.10.10

8

Initial Calibration Summary

Job Number: JD87833 **Sample:** G2G6081-ICC6081
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 2G231556.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Response Factor Report GC2G

Method : C:\msdchem\1\MET...PCBLVI6081full.M (ChemStation Integrator)
Title :
Last Update : Thu May 02 10:45:47 2024
Response via : Initial Calibration

Calibration Files
50 =2G231603.d 250 =2G231605.d 500 =2G231606.d 1000=2G231607.d
2000=2G231608.d 3000=2G231609.d 5000=2G231610.d 10k =2G231611.d
20k =2G231612.d 100 =2G231582.d = =

Compound

	50	250	500	1000	2000	3000	5000	10k	20k	100	Avg	%RSD
1) Tetrachloro-m-xylene	4.091	4.817	4.495	4.573	4.104	4.109	4.023	4.152		4.907	4.363 E8	7.81
2) AR1221-A				2.637							2.637 E6	0.00
3) AR1221-B				4.558							4.558 E6	0.00
4) AR1221-C				1.450							1.450 E7	0.00
5) AR1221-D				2.035							2.035 E6	0.00
6) AR1221-E				3.303							3.303 E6	0.00
7) AR1232-A				9.974							9.974 E6	0.00
8) AR1232-B				7.284							7.284 E6	0.00
9) AR1232-C				1.420							1.420 E7	0.00
10) AR1232-D				5.554							5.554 E6	0.00
11) AR1232-E				5.697							5.697 E6	0.00
12) AR1242-A	2.144	1.206	1.235	1.177	1.098	1.090	1.152	0.985	0.890	1.650	1.263 E7	29.20

----- Quadratic regression ----- Coefficient = 0.9973
Response Ratio = 51366681.13373 + 11122372.80748 *A + -1087.40523 *A^2

13) AR1242-B	4.219	2.378	2.386	2.336	2.219	2.203	2.379	2.086	1.935	3.180	2.532 E7	26.76

----- Quadratic regression ----- Coefficient = 0.9970
Response Ratio = 98562237.41619 + 22035826.20841 *A + -1142.15981 *A^2

14) AR1242-C	3.183	1.790	1.721	1.702	1.613	1.604	1.697	1.518	1.371	2.510	1.871 E7	29.43

----- Quadratic regression ----- Coefficient = 0.9972
Response Ratio = 79620718.83982 + 16118588.88491 *A + -1074.59871 *A^2

15) AR1242-D	1.976	1.297	1.075	1.132	1.084	1.046	1.115	0.976	0.908	1.546	1.215 E7	26.43

----- Quadratic regression ----- Coefficient = 0.9979
Response Ratio = 45314836.68287 + 10776660.91918 *A + -844.90358 *A^2

16) AR1242-E	2.247	1.283	1.576	1.681	1.562	1.582	1.705	1.521	1.433	1.725	1.632 E7	15.54

----- Quadratic regression ----- Coefficient = 0.9873

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          Response Ratio = 30794628.10779 + 15185126.98267 *A + -109.31555 *A^2

17)  AR1248-A
          1.002 0.569 0.589 0.567 0.524 0.511 0.497 0.485 0.450 0.796  0.599 E7   28.49
         ----- Quadratic regression -----  Coefficient =  1.0000
          Response Ratio = 30704579.27738 + 5118199.23501 *A + -316.49971 *A^2

18)  AR1248-B
          2.940 1.582 1.599 1.585 1.450 1.430 1.419 1.392 1.336 2.130  1.686 E7   29.32
         ----- Quadratic regression -----  Coefficient =  1.0000
          Response Ratio = 75189749.97349 + 14314978.75546 *A + -495.83539 *A^2

19)  AR1248-C
          5.647 2.983 2.963 2.840 2.634 2.568 2.498 2.393 2.213 4.024  3.076 E7   33.54
         ----- Quadratic regression -----  Coefficient =  1.0000
          Response Ratio = 190568746.01617 + 25505798.13859 *A + -1737.88283 *A^2

20)  AR1248-D
          3.295 1.812 1.842 1.765 1.656 1.611 1.570 1.507 1.384 2.447  1.889 E7   30.29
         ----- Quadratic regression -----  Coefficient =  1.0000
          Response Ratio = 99194931.94584 + 16147725.71899 *A + -1178.82562 *A^2

21)  AR1248-E
          0.300 1.749 1.781 1.723 1.609 1.570 1.533 1.487 1.416 2.266  1.543 E7   32.21
         ----- Quadratic regression -----  Coefficient =  0.9994
          Response Ratio = -25718812.03855 + 15778110.08034 *A + -806.36856 *A^2

22)  AR1248-F
          4.767 3.043 3.088 3.011 2.814 2.747 2.699 2.632 2.453 3.673  3.093 E7   21.88
         ----- Quadratic regression -----  Coefficient =  1.0000
          Response Ratio = 117024058.93066 + 27778937.58940 *A + -1648.40667 *A^2

23)  AR1248-G
          4.146 3.020 3.147 2.994 2.641 2.783 2.602 2.680 2.383 3.248  2.964 E7   16.69
         ----- Quadratic regression -----  Coefficient =  0.9995
          Response Ratio = -16151630.01304 + 28593742.55863 *A + -2351.33614 *A^2

24)  AR1254-A
          2.794 1.567 1.704 1.432 1.353 1.360 1.253 1.254 1.131 1.656  1.550 E7   30.58
         ----- Quadratic regression -----  Coefficient =  0.9998
          Response Ratio = 79097590.73451 + 13377930.66905 *A + -1049.62655 *A^2

25)  AR1254-B
          4.931 3.003 3.106 2.812 2.648 2.687 2.302 2.454 2.174 2.866  2.898 E7   26.67
         ----- Quadratic regression -----  Coefficient =  0.9991
          Response Ratio = 112911932.10866 + 25993875.59886 *A + -2134.05979 *A^2

26)  AR1254-C
          2.534 1.587 1.685 1.519 1.439 1.460 1.308 1.360 1.251 1.610  1.575 E7   23.08
         ----- Quadratic regression -----  Coefficient =  0.9996
          Response Ratio = 59711577.07268 + 14178749.24221 *A + -840.16999 *A^2

27)  AR1254-D
          5.001 3.111 3.295 2.991 2.797 2.835 2.513 2.612 2.341 3.182  3.068 E7   24.25
         ----- Quadratic regression -----  Coefficient =  0.9995
          Response Ratio = 115852928.05737 + 27699504.14972 *A + -2155.12580 *A^2

28)  AR1254-E
          3.376 2.300 2.476 2.270 2.188 2.231 2.024 2.170 2.029 2.093  2.316 E7   17.11
         ----- Quadratic regression -----  Coefficient =  0.9995
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              Response Ratio = 7064421.71936 + 22132149.70420 *A + -904.41724 *A^2

 29)  AR1254-F
          3.970 2.464 2.640 2.397 2.268 2.295 2.076 2.136 1.940 2.566  2.475 E7   22.98
         ----- Quadratic regression -----  Coefficient =  0.9996
              Response Ratio = 80761804.61441 + 22548852.34070 *A + -1583.11441 *A^2

 30)  AR1254-G
          5.354 3.227 3.492 3.175 3.018 3.072 2.810 2.894 2.642 3.397  3.308 E7   23.10
         ----- Quadratic regression -----  Coefficient =  0.9997
              Response Ratio = 73560151.24555 + 30431010.42895 *A + -2005.15607 *A^2

 31)  AR1016-A
          7.064 7.893 7.286 7.561 6.930 6.901 6.803 7.179       9.529  7.461 E6   11.38
 32)  AR1016-B
          1.537 1.590 1.509 1.503 1.345 1.337 1.292 1.318       1.941  1.486 E7   13.65
 33)  AR1016-C
          3.304 3.400 3.221 3.260 2.904 2.900 2.888 2.992       3.975  3.205 E7   10.88
 34)  AR1016-D
          1.466 1.378 1.300 1.288 1.153 1.156 1.134 1.185       1.673  1.304 E7   13.72
 35)  AR1016-E
          1.497 1.503 1.427 1.426 1.279 1.292 1.269 1.335       1.858  1.432 E7   12.81
 36)  AR1260-A
          3.709 4.102 3.974 4.023 3.619 3.665 3.640 3.799       4.512  3.894 E7    7.51
 37)  AR1260-B
          2.756 2.907 2.823 2.853 2.566 2.593 2.559 2.650       3.303  2.779 E7    8.47
 38)  AR1260-C
          2.332 2.498 2.428 2.434 2.166 2.218 2.177 2.269       2.689  2.357 E7    7.32
 39)  AR1260-D
          6.493 7.041 6.901 6.997 6.252 6.239 5.999 5.983       7.527  6.604 E7    8.13
 40)  AR1260-E
          6.261 6.397 6.289 6.404 5.716 5.872 5.716 6.007       7.324  6.221 E7    7.97
 41)  AR1262-A
                            2.625                                       2.625 E7    0.00
 42)  AR1262-B
                            4.181                                       4.181 E7    0.00
 43)  AR1262-C
                            3.096                                       3.096 E7    0.00
 44)  AR1262-D
                            7.890                                       7.890 E7    0.00
 45)  AR1262-E
                            8.341                                       8.341 E7    0.00
 46)  AR1268-A
                            8.875                                       8.875 E7    0.00
 47)  AR1268-B
                            8.404                                       8.404 E7    0.00
 48)  AR1268-C
                            7.161                                       7.161 E7    0.00
 49)  AR1268-D
                            2.635                                       2.635 E7    0.00
 50)  AR1268-E
                            1.768                                       1.768 E8    0.00
 51)  Decachlorobiphenyl
                 4.076 4.023 4.049 3.617 3.650 3.646             4.592  3.951 E8    8.86

Signal #2

  1)  Tetrachloro-m-xylene
          5.455 6.041 5.857 6.054 5.502 5.603 5.607 5.975       6.706  5.867 E8    6.66
  2)  AR1221-A
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                          2.838                                  2.838 E6    0.00
 3)  AR1221-B
                          6.390                                  6.390 E6    0.00
 4)  AR1221-C
                          1.527                                  1.527 E7    0.00
 5)  AR1221-D
                          4.691                                  4.691 E6    0.00
 6)  AR1221-E
                          3.482                                  3.482 E6    0.00
 7)  AR1232-A
                          1.098                                  1.098 E7    0.00
 8)  AR1232-B
                          9.119                                  9.119 E6    0.00
 9)  AR1232-C
                          2.030                                  2.030 E7    0.00
10)  AR1232-D
                          7.557                                  7.557 E6    0.00
11)  AR1232-E
                          5.610                                  5.610 E6    0.00
12)  AR1242-A
          2.953 1.654 1.615 1.542 1.434 1.354 1.427 1.219 1.132 2.337  1.667 E7   33.57
         ----- Quadratic regression -----  Coefficient =  0.9970
              Response Ratio = 77988760.06958 + 14391088.41124 *A + -1676.05656 *A^2

13)  AR1242-B
          6.790 4.005 3.887 3.652 3.479 3.400 3.639 3.122 2.800 5.101  3.988 E7   29.08
         ----- Quadratic regression -----  Coefficient =  0.9986
              Response Ratio = 161801662.45289 + 35169454.66277 *A + -3513.36966 *A^2

14)  AR1242-C
          2.488 1.664 1.413 1.344 1.280 1.245 1.326 1.164 1.084 1.894  1.490 E7   28.46
         ----- Quadratic regression -----  Coefficient =  0.9979
              Response Ratio = 59223127.18154 + 13160877.51681 *A + -1243.99764 *A^2

15)  AR1242-D
          2.191 1.236 1.204 1.133 1.077 1.044 1.125 0.986 0.923 1.598  1.252 E7   30.22
         ----- Quadratic regression -----  Coefficient =  0.9985
              Response Ratio = 54982516.48098 + 10723805.27869 *A + -732.42192 *A^2

16)  AR1242-E
          2.666 1.502 1.542 1.443 1.387 1.349 1.459 1.302 1.226 2.081  1.596 E7   27.72
         ----- Quadratic regression -----  Coefficient =  0.9973
              Response Ratio = 64671622.67024 + 13783842.31573 *A + -706.50807 *A^2

17)  AR1248-A
          1.515 0.809 0.807 0.753 0.690 0.661 0.650 0.617 0.570 1.141  0.821 E7   35.53
         ----- Quadratic regression -----  Coefficient =  0.9979
              Response Ratio = 41951569.34335 + 6886012.37765 *A + -658.34310 *A^2

18)  AR1248-B
          4.635 2.496 2.517 2.395 2.252 2.197 2.156 2.097 1.940 3.520  2.621 E7   31.71
         ----- Quadratic regression -----  Coefficient =  0.9982
              Response Ratio = 121886232.36894 + 22128459.35107 *A + -1378.21246 *A^2

19)  AR1248-C
          2.882 1.525 1.516 1.447 1.353 1.320 1.289 1.251 1.155 2.134  1.587 E7   33.32
         ----- Quadratic regression -----  Coefficient =  0.9985
              Response Ratio = 77717241.77452 + 13270904.80564 *A + -874.69415 *A^2

20)  AR1248-D
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          3.793 2.029 2.038 1.954 1.811 1.768 1.719 1.645 1.514 2.833  2.110 E7   32.83
         ----- Quadratic regression -----  Coefficient =  0.9983
              Response Ratio = 100367059.08333 + 17867289.90766 *A + -1420.37517 *A^2

21)  AR1248-E
          3.675 1.961 2.000 1.925 1.807 1.776 1.741 1.693 1.580 2.748  2.091 E7   30.73
         ----- Quadratic regression -----  Coefficient =  0.9980
              Response Ratio = 94887353.98864 + 17664088.30138 *A + -911.74284 *A^2

22)  AR1248-F
          5.385 2.904 2.895 2.787 2.607 2.551 2.497 2.418 2.233 4.002  3.028 E7   31.69
         ----- Quadratic regression -----  Coefficient =  0.9986
              Response Ratio = 140696402.49021 + 25593711.43172 *A + -1637.02980 *A^2

23)  AR1248-G
          5.309 2.787 2.854 2.763 2.603 2.554 2.524 2.469 2.327 3.891  3.008 E7   30.48
         ----- Quadratic regression -----  Coefficient =  0.9977
              Response Ratio = 137251654.55041 + 25206249.07304 *A + -876.60481 *A^2

24)  AR1254-A
          4.561 2.503 2.605 2.316 2.157 2.172 1.947 2.005 1.848 2.784  2.490 E7   31.60
         ----- Quadratic regression -----  Coefficient =  0.9885
              Response Ratio = 111360224.77891 + 21257162.18363 *A + -1454.92133 *A^2

25)  AR1254-B
          5.395 2.983 3.118 2.780 2.607 2.645 2.200 2.458 2.273 3.343  2.980 E7   30.94
         ----- Quadratic regression -----  Coefficient =  0.9878
              Response Ratio = 131181307.25423 + 25403761.11692 *A + -1459.41447 *A^2

26)  AR1254-C
          4.075 2.258 2.370 2.122 2.004 2.041 1.866 1.945 1.842 2.629  2.315 E7   28.70
         ----- Quadratic regression -----  Coefficient =  0.9929
              Response Ratio = 97667142.27987 + 19684780.39489 *A + -623.78805 *A^2

27)  AR1254-D
          7.628 4.290 4.532 4.079 3.845 3.911 3.572 3.618 2.655 4.747  4.288 E7   30.55
         ----- Quadratic regression -----  Coefficient =  0.9882
              Response Ratio = 167565333.74287 + 38745333.82208 *A + -5409.53443 *A^2

28)  AR1254-E
          5.967 3.389 3.598 3.247 3.026 3.104 2.852 2.923 2.221 3.685  3.401 E7   29.20
         ----- Quadratic regression -----  Coefficient =  0.9875
              Response Ratio = 128650317.70449 + 30640488.35776 *A + -3678.35509 *A^2

29)  AR1254-F
          5.825 3.298 3.510 3.168 3.085 3.119 2.920 3.025 2.869 3.647  3.446 E7   25.27
         ----- Quadratic regression -----  Coefficient =  0.9906
              Response Ratio = 127516085.25747 + 29724278.41744 *A + -306.83912 *A^2

30)  AR1254-G
          7.093 4.117 4.373 4.006 3.792 3.887 3.480 3.717 2.840 4.695  4.200 E7   26.98
         ----- Quadratic regression -----  Coefficient =  0.9916
              Response Ratio = 148749196.34688 + 38050341.75433 *A + -4124.74543 *A^2

31)  AR1016-A
          8.815 9.562 8.842 9.088 7.850 7.819 7.531 7.949       9.991  8.605 E6   10.02
32)  AR1016-B
          1.977 2.086 1.959 1.927 1.672 1.653 1.603 1.666       2.352  1.877 E7   13.33
33)  AR1016-C
          5.025 4.901 4.705 4.775 4.243 4.273 4.192 4.322       5.703  4.682 E7   10.54
```

8.10.11

8

Initial Calibration Summary

Job Number: JD87833 **Sample:** G2G6081-ICC6081
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 2G231556.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

```
34)  AR1016-D
          1.686 1.763 1.669 1.772 1.555 1.570 1.535 1.605       1.897  1.673 E7    7.21
35)  AR1016-E
          1.465 1.534 1.442 1.466 1.306 1.309 1.303 1.378       1.675  1.431 E7    8.64
36)  AR1260-A
          4.804 4.835 4.757 4.883 4.460 4.573 4.612 4.942       5.472  4.815 E7    6.06
37)  AR1260-B
          3.196 3.295 3.231 3.347 3.060 3.112 3.137 3.138       3.624  3.238 E7    5.28
38)  AR1260-C
          3.105 2.894 2.814 2.893 2.639 2.701 2.732 2.883       3.246  2.879 E7    6.75
39)  AR1260-D
          7.221 7.173 7.110 7.403 6.707 6.793 6.093 4.012       7.886  6.711 E7   16.80
40)  AR1260-E
          5.609 6.037 5.896 6.212 5.638 5.818 5.941 6.437       6.523  6.012 E7    5.39
41)  AR1262-A
                              3.215                                    3.215 E7    0.00
42)  AR1262-B
                              4.890                                    4.890 E7    0.00
43)  AR1262-C
                              3.546                                    3.546 E7    0.00
44)  AR1262-D
                              8.271                                    8.271 E7    0.00
45)  AR1262-E
                              8.098                                    8.098 E7    0.00
46)  AR1268-A
                              9.681                                    9.681 E7    0.00
47)  AR1268-B
                              8.173                                    8.173 E7    0.00
48)  AR1268-C
                              7.080                                    7.080 E7    0.00
49)  AR1268-D
                              2.752                                    2.752 E7    0.00
50)  AR1268-E
                              1.878                                    1.878 E8    0.00
51)  Decachlorobiphenyl
          3.854 3.717 3.755 3.748 3.811 3.590 3.642 4.022       4.219  3.818 E8    5.12
-------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          2PCBLVI6081full.M        Thu May 02 11:30:24 2024
```

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231562.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\DATA\2G6081\2G231562.d\ECD1A.CH Vial: 0
Signal #2 : C:\msdchem\1\DATA\2G6081\2G231562.d\ECD2B.CH
Acq On : 29 Apr 2024 8:02 am Operator: christp
Sample : icv6081-100 Inst : GC2G
Misc : op53681,G2G6081,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\METHODS\2PCBLVI6081.M (ChemStation Integrator)
Title :
Last Update : Wed May 01 05:40:30 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	436.345	480.120 E6	-10.0	105	0.00	4.65- 4.71
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A	7.461	7.097 E6	4.9	94	0.00	4.94- 5.00
32	AR1016-B	14.857	15.119 E6	-1.8	101	0.00	5.22- 5.28
33	AR1016-C	32.048	31.955 E6	0.3	98	0.00	5.59- 5.65
34	AR1016-D	13.036	12.807 E6	1.8	99	0.00	5.71- 5.77
35	AR1016-E	14.318	13.728 E6	4.1	96	0.00	6.06- 6.12
36	AR1260-A	38.935	41.688 E6	-7.1	104	0.00	8.50- 8.56
37	AR1260-B	27.790	23.624 E6	15.0	83	0.00	8.74- 8.80
38	AR1260-C	23.568	21.001 E6	10.9	86	0.00	9.21- 9.27
39	AR1260-D	66.037	59.596 E6	9.8	85	0.02	9.71- 9.77
40	AR1260-E	62.209	52.353 E6	15.8	82	0.00	10.05-10.20
41	AR1262-A		----------NA----------				

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231562.D

42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				
48		AR1268-C			----------NA----------				
49		AR1268-D			----------NA----------				
50		AR1268-E			----------NA----------				
51	S	Decachlorobiphenyl	395.051	464.108 E6	-17.5	115	0.00	11.28-11.34	
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	586.663	645.419 E6	-10.0	107	0.00	5.14- 5.20	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1016-A	8.605	8.792 E6	-2.2	97	0.00	5.60- 5.66	
32		AR1016-B	18.771	19.421 E6	-3.5	101	0.00	5.98- 6.04	
33		AR1016-C	46.822	47.164 E6	-0.7	99	0.00	6.48- 6.54	
34		AR1016-D	16.725	17.171 E6	-2.7	97	0.00	6.65- 6.71	
35		AR1016-E	14.308	13.849 E6	3.2	94	0.00	7.29- 7.35	
36		AR1260-A	48.153	51.398 E6	-6.7	105	0.03	10.38-10.44	
37		AR1260-B	32.379	27.508 E6	15.0	82	0.00	10.48-10.54	
38		AR1260-C	28.786	25.386 E6	11.8	88	0.00	10.82-10.88	
39		AR1260-D	67.110	63.363 E6	5.6	86	0.00	11.06-11.12	
40		AR1260-E	60.122	50.531 E6	16.0	81	0.02	11.42-11.48	
41		AR1262-A			----------NA----------				
42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231562.D

48		AR1268-C				----------NA----------			
49		AR1268-D				----------NA----------			
50		AR1268-E				----------NA----------			
51	S	Decachlorobiphenyl	381.754	436.000	E6	-14.2	116	0.00	12.40-12.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G231556.d 2PCBLVI6081.M Wed May 01 05:45:23 2024

8.10.12

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231570.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\DATA\2G6081\2G231570.d\ECD1A.CH Vial: 0
Signal #2 : C:\msdchem\1\DATA\2G6081\2G231570.d\ECD2B.CH
Acq On : 29 Apr 2024 11:22 am Operator: christp
Sample : icv6081-100 Inst : GC2G
Misc : op53681,G2G6081,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\METHODS\2PCBLVI6081.M (ChemStation Integrator)
Title :
Last Update : Wed May 01 05:40:30 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	436.345	463.969 E6	-6.3	101	0.00	4.65- 4.71
2	AR1221-A	2.637	2.255 E6	14.5	86	0.00	4.16- 4.36
3	AR1221-B	4.558	3.949 E6	13.4	87	0.00	4.72- 4.92
4	AR1221-C	14.502	12.548 E6	13.5	87	0.00	4.87- 5.07
5	AR1221-D	2.035	1.820 E6	10.6	89	0.00	5.15- 5.35
6	AR1221-E	3.303	2.328 E6	29.5#	70	0.00	5.52- 5.72
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A		----------NA----------				
32	AR1016-B		----------NA----------				
33	AR1016-C		----------NA----------				
34	AR1016-D		----------NA----------				
35	AR1016-E		----------NA----------				
36	AR1260-A		----------NA----------				
37	AR1260-B		----------NA----------				
38	AR1260-C		----------NA----------				
39	AR1260-D		----------NA----------				
40	AR1260-E		----------NA----------				
41	AR1262-A		----------NA----------				

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231570.D

42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				
48		AR1268-C			----------NA----------				
49		AR1268-D			----------NA----------				
50		AR1268-E			----------NA----------				
51	S	Decachlorobiphenyl	395.051	434.368 E6	-10.0	107	0.00	11.28-11.34	
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	586.663	597.640 E6	-1.9	99	0.00	5.14- 5.20	
2		AR1221-A	2.838	2.391 E6	15.8	84	0.00	4.66- 4.86	
3		AR1221-B	6.390	5.637 E6	11.8	88	0.00	5.34- 5.54	
4		AR1221-C	15.268	12.185 E6	20.2#	80	0.00	5.53- 5.73	
5		AR1221-D	4.691	3.964 E6	15.5	84	0.00	5.97- 6.17	
6		AR1221-E	3.482	2.934 E6	15.7	84	0.00	6.41- 6.61	
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1016-A			----------NA----------				
32		AR1016-B			----------NA----------				
33		AR1016-C			----------NA----------				
34		AR1016-D			----------NA----------				
35		AR1016-E			----------NA----------				
36		AR1260-A			----------NA----------				
37		AR1260-B			----------NA----------				
38		AR1260-C			----------NA----------				
39		AR1260-D			----------NA----------				
40		AR1260-E			----------NA----------				
41		AR1262-A			----------NA----------				
42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231570.D

48		AR1268-C				----------NA----------			
49		AR1268-D				----------NA----------			
50		AR1268-E				----------NA----------			
51	S	Decachlorobiphenyl	381.754	398.422	E6	-4.4	106	0.01	12.41-12.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G231556.d 2PCBLVI6081.M Wed May 01 05:45:32 2024

8.10.13

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231572.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\DATA\2G6081\2G231572.d\ECD1A.CH Vial: 0
Signal #2 : C:\msdchem\1\DATA\2G6081\2G231572.d\ECD2B.CH
Acq On : 29 Apr 2024 12:13 pm Operator: christp
Sample : icv6081-100 Inst : GC2G
Misc : op53681,G2G6081,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\METHODS\2PCBLVI6081.M (ChemStation Integrator)
Title :
Last Update : Wed May 01 05:40:30 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	436.345	454.376 E6	-4.1	99	0.00	4.66- 4.72
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A	9.974	8.342 E6	16.4	84	0.00	4.88- 5.08
8	AR1232-B	7.284	6.176 E6	15.2	85	0.00	5.15- 5.35
9	AR1232-C	14.198	12.378 E6	12.8	87	0.00	5.52- 5.72
10	AR1232-D	5.554	4.894 E6	11.9	88	0.00	5.65- 5.85
11	AR1232-E	5.697	4.893 E6	14.1	86	0.00	5.99- 6.19
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A		----------NA----------				
32	AR1016-B		----------NA----------				
33	AR1016-C		----------NA----------				
34	AR1016-D		----------NA----------				
35	AR1016-E		----------NA----------				
36	AR1260-A		----------NA----------				
37	AR1260-B		----------NA----------				
38	AR1260-C		----------NA----------				
39	AR1260-D		----------NA----------				
40	AR1260-E		----------NA----------				
41	AR1262-A		----------NA----------				

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231572.D

42		AR1262-B				----------NA----------			
43		AR1262-C				----------NA----------			
44		AR1262-D				----------NA----------			
45		AR1262-E				----------NA----------			
46		AR1268-A				----------NA----------			
47		AR1268-B				----------NA----------			
48		AR1268-C				----------NA----------			
49		AR1268-D				----------NA----------			
50		AR1268-E				----------NA----------			
51	S	Decachlorobiphenyl	395.051	437.005	E6	-10.6	108	0.00	11.28-11.34
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	586.663	610.240	E6	-4.0	101	0.00	5.15- 5.21
2		AR1221-A				----------NA----------			
3		AR1221-B				----------NA----------			
4		AR1221-C				----------NA----------			
5		AR1221-D				----------NA----------			
6		AR1221-E				----------NA----------			
7		AR1232-A	10.980	10.084	E6	8.2	92	0.00	5.53- 5.73
8		AR1232-B	9.119	8.502	E6	6.8	93	0.00	5.92- 6.12
9		AR1232-C	20.297	18.678	E6	8.0	92	0.00	6.42- 6.62
10		AR1232-D	7.557	6.608	E6	12.6	87	0.00	6.58- 6.78
11		AR1232-E	5.610	5.077	E6	9.5	90	0.00	7.22- 7.42
12		AR1242-A				----------NA----------			
13		AR1242-B				----------NA----------			
14		AR1242-C				----------NA----------			
15		AR1242-D				----------NA----------			
16		AR1242-E				----------NA----------			
17		AR1248-A				----------NA----------			
18		AR1248-B				----------NA----------			
19		AR1248-C				----------NA----------			
20		AR1248-D				----------NA----------			
21		AR1248-E				----------NA----------			
22		AR1248-F				----------NA----------			
23		AR1248-G				----------NA----------			
24		AR1254-A				----------NA----------			
25		AR1254-B				----------NA----------			
26		AR1254-C				----------NA----------			
27		AR1254-D				----------NA----------			
28		AR1254-E				----------NA----------			
29		AR1254-F				----------NA----------			
30		AR1254-G				----------NA----------			
31		AR1016-A				----------NA----------			
32		AR1016-B				----------NA----------			
33		AR1016-C				----------NA----------			
34		AR1016-D				----------NA----------			
35		AR1016-E				----------NA----------			
36		AR1260-A				----------NA----------			
37		AR1260-B				----------NA----------			
38		AR1260-C				----------NA----------			
39		AR1260-D				----------NA----------			
40		AR1260-E				----------NA----------			
41		AR1262-A				----------NA----------			
42		AR1262-B				----------NA----------			
43		AR1262-C				----------NA----------			
44		AR1262-D				----------NA----------			
45		AR1262-E				----------NA----------			
46		AR1268-A				----------NA----------			
47		AR1268-B				----------NA----------			

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231572.D

48		AR1268-C				----------NA----------			
49		AR1268-D				----------NA----------			
50		AR1268-E				----------NA----------			
51	S	Decachlorobiphenyl	381.754	406.133	E6	-6.4	108	0.00	12.40-12.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G231556.d 2PCBLVI6081.M Wed May 01 05:45:36 2024

8.10.14

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231573.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\DATA\2G6081\2G231573.d\ECD1A.CH Vial: 0
Signal #2 : C:\msdchem\1\DATA\2G6081\2G231573.d\ECD2B.CH
Acq On : 29 Apr 2024 12:38 pm Operator: christp
Sample : icv6081-100 Inst : GC2G
Misc : op53681,G2G6081,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\METHODS\2PCBLVI6081.M (ChemStation Integrator)
Title :
Last Update : Wed May 01 05:40:30 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	436.345	453.873 E6	-4.0	99	0.00	4.65- 4.71
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1016-A		----------NA----------				
32		AR1016-B		----------NA----------				
33		AR1016-C		----------NA----------				
34		AR1016-D		----------NA----------				
35		AR1016-E		----------NA----------				
36		AR1260-A		----------NA----------				
37		AR1260-B		----------NA----------				
38		AR1260-C		----------NA----------				
39		AR1260-D		----------NA----------				
40		AR1260-E		----------NA----------				
41		AR1262-A	26.252	24.231 E6	7.7	92	0.00	7.90- 8.10

8.10.15
8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231573.D

42		AR1262-B	41.812	38.701	E6	7.4	93	0.00	8.68- 8.88
43		AR1262-C	30.962	27.510	E6	11.1	89	0.00	9.14- 9.34
44		AR1262-D	78.899	72.492	E6	8.1	92	0.00	9.64- 9.84
45		AR1262-E	83.413	75.771	E6	9.2	91	0.00	10.07-10.27
46		AR1268-A	----------NA----------						
47		AR1268-B	----------NA----------						
48		AR1268-C	----------NA----------						
49		AR1268-D	----------NA----------						
50		AR1268-E	----------NA----------						
51	S	Decachlorobiphenyl	395.051	441.547	E6	-11.8	109	0.00	11.28-11.34
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	586.663	609.549	E6	-3.9	101	0.00	5.14- 5.20
2		AR1221-A	----------NA----------						
3		AR1221-B	----------NA----------						
4		AR1221-C	----------NA----------						
5		AR1221-D	----------NA----------						
6		AR1221-E	----------NA----------						
7		AR1232-A	----------NA----------						
8		AR1232-B	----------NA----------						
9		AR1232-C	----------NA----------						
10		AR1232-D	----------NA----------						
11		AR1232-E	----------NA----------						
12		AR1242-A	----------NA----------						
13		AR1242-B	----------NA----------						
14		AR1242-C	----------NA----------						
15		AR1242-D	----------NA----------						
16		AR1242-E	----------NA----------						
17		AR1248-A	----------NA----------						
18		AR1248-B	----------NA----------						
19		AR1248-C	----------NA----------						
20		AR1248-D	----------NA----------						
21		AR1248-E	----------NA----------						
22		AR1248-F	----------NA----------						
23		AR1248-G	----------NA----------						
24		AR1254-A	----------NA----------						
25		AR1254-B	----------NA----------						
26		AR1254-C	----------NA----------						
27		AR1254-D	----------NA----------						
28		AR1254-E	----------NA----------						
29		AR1254-F	----------NA----------						
30		AR1254-G	----------NA----------						
31		AR1016-A	----------NA----------						
32		AR1016-B	----------NA----------						
33		AR1016-C	----------NA----------						
34		AR1016-D	----------NA----------						
35		AR1016-E	----------NA----------						
36		AR1260-A	----------NA----------						
37		AR1260-B	----------NA----------						
38		AR1260-C	----------NA----------						
39		AR1260-D	----------NA----------						
40		AR1260-E	----------NA----------						
41		AR1262-A	32.146	29.758	E6	7.4	93	0.00	9.84-10.04
42		AR1262-B	48.900	45.080	E6	7.8	92	0.00	10.41-10.61
43		AR1262-C	35.459	32.738	E6	7.7	92	0.00	10.75-10.95
44		AR1262-D	82.706	76.740	E6	7.2	93	0.00	10.99-11.19
45		AR1262-E	80.981	74.598	E6	7.9	92	0.00	11.33-11.53
46		AR1268-A	----------NA----------						
47		AR1268-B	----------NA----------						

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231573.D

48		AR1268-C				----------NA----------			
49		AR1268-D				----------NA----------			
50		AR1268-E				----------NA----------			
51	S	Decachlorobiphenyl	381.754	410.457	E6	-7.5	110	0.00	12.40-12.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G231556.d 2PCBLVI6081.M Wed May 01 05:45:38 2024

8.10.15

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231574.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\DATA\2G6081\2G231574.d\ECD1A.CH Vial: 0
Signal #2 : C:\msdchem\1\DATA\2G6081\2G231574.d\ECD2B.CH
Acq On : 29 Apr 2024 13:04 pm Operator: christp
Sample : icv6081-100 Inst : GC2G
Misc : op53681,G2G6081,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\METHODS\2PCBLVI6081.M (ChemStation Integrator)
Title :
Last Update : Wed May 01 05:40:30 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	436.345	512.789 E6	-17.5	112	0.00	4.65- 4.71
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1016-A		----------NA----------				
32	AR1016-B		----------NA----------				
33	AR1016-C		----------NA----------				
34	AR1016-D		----------NA----------				
35	AR1016-E		----------NA----------				
36	AR1260-A		----------NA----------				
37	AR1260-B		----------NA----------				
38	AR1260-C		----------NA----------				
39	AR1260-D		----------NA----------				
40	AR1260-E		----------NA----------				
41	AR1262-A		----------NA----------				

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231574.D

42		AR1262-B		----------NA----------				
43		AR1262-C		----------NA----------				
44		AR1262-D		----------NA----------				
45		AR1262-E		----------NA----------				
46		AR1268-A	88.746	76.354 E6	14.0	86	0.00	10.07-10.27
47		AR1268-B	84.035	72.503 E6	13.7	86	0.00	10.12-10.32
48		AR1268-C	71.614	62.126 E6	13.2	87	0.00	10.35-10.55
49		AR1268-D	26.346	23.306 E6	11.5	88	0.00	10.74-10.94
50		AR1268-E	176.795	152.805 E6	13.6	86	0.00	11.03-11.23
51	S	Decachlorobiphenyl	395.051	1202.202 E6	-204.3#	297#	0.00	11.28-11.34
*****		Signal #2 *****						
1	S	Tetrachloro-m-xylene	586.663	608.483 E6	-3.7	101	0.00	5.14- 5.20
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1016-A		----------NA----------				
32		AR1016-B		----------NA----------				
33		AR1016-C		----------NA----------				
34		AR1016-D		----------NA----------				
35		AR1016-E		----------NA----------				
36		AR1260-A		----------NA----------				
37		AR1260-B		----------NA----------				
38		AR1260-C		----------NA----------				
39		AR1260-D		----------NA----------				
40		AR1260-E		----------NA----------				
41		AR1262-A		----------NA----------				
42		AR1262-B		----------NA----------				
43		AR1262-C		----------NA----------				
44		AR1262-D		----------NA----------				
45		AR1262-E		----------NA----------				
46		AR1268-A	96.812	82.216 E6	15.1	85	0.00	11.33-11.53
47		AR1268-B	81.735	69.626 E6	14.8	85	0.00	11.38-11.58

8.10.16

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231574.D

48		AR1268-C	70.800	60.136 E6	15.1	85	0.00	11.61-11.81
49		AR1268-D	27.515	23.469 E6	14.7	85	0.00	11.84-12.04
50		AR1268-E	187.769	160.894 E6	14.3	86	0.00	12.11-12.31
51	S	Decachlorobiphenyl	381.754	1154.634 E6	-202.5#	308#	0.00	12.40-12.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G231556.d 2PCBLVI6081.M Wed May 01 05:45:40 2024

8.10.16

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231591.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\DATA\2G6081\2G231591.d\ECD1A.CH Vial: 0
Signal #2 : C:\msdchem\1\DATA\2G6081\2G231591.d\ECD2B.CH
Acq On : 01 May 2024 11:52 am Operator: rebeccak
Sample : icv6081-100 (ar1242) Inst : GC2G
Misc : op53681,G2G6081,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\MET...PCBLVI6081full.M (ChemStation Integrator)
Title :
Last Update : Thu May 02 10:45:47 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	436.345	455.365 E6	-4.4	100	0.00	4.65- 4.71
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
		True	Calc.	% Drift			
12	AR1242-A	100.000	110.799	-10.8	108	0.00	5.15- 5.35
13	AR1242-B	100.000	111.099	-11.1	108	0.00	5.51- 5.71
14	AR1242-C	100.000	110.491	-10.5	109	0.00	5.64- 5.84
15	AR1242-D	100.000	106.411	-6.4	104	0.00	5.99- 6.19
16	AR1242-E	100.000	107.782	-7.8	99	0.00	6.43- 6.63
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
		AvgRF	CCRF	% Dev			
31	AR1016-A		----------NA----------				
32	AR1016-B		----------NA----------				
33	AR1016-C		----------NA----------				
34	AR1016-D		----------NA----------				
35	AR1016-E		----------NA----------				
36	AR1260-A		----------NA----------				
37	AR1260-B		----------NA----------				

8.10.17

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231591.D

38		AR1260-C			----------NA----------				
39		AR1260-D			----------NA----------				
40		AR1260-E			----------NA----------				
41		AR1262-A			----------NA----------				
42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				
48		AR1268-C			----------NA----------				
49		AR1268-D			----------NA----------				
50		AR1268-E			----------NA----------				
51	S	Decachlorobiphenyl	395.051	452.525 E6	-14.5	112	0.00	11.28-11.34	
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	586.663	621.408 E6	-5.9	103	0.00	5.14- 5.20	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
		----------	True	Calc.	% Drift	----------			
12		AR1242-A	100.000	113.559	-13.6	110	0.00	5.91- 6.11	
13		AR1242-B	100.000	109.859	-9.9	109	0.00	6.41- 6.61	
14		AR1242-C	100.000	105.357	-5.4	107	0.00	6.58- 6.78	
15		AR1242-D	100.000	108.503	-8.5	107	0.00	7.22- 7.42	
16		AR1242-E	100.000	102.659	-2.7	102	0.00	7.94- 8.14	
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------			
31		AR1016-A			----------NA----------				
32		AR1016-B			----------NA----------				
33		AR1016-C			----------NA----------				
34		AR1016-D			----------NA----------				
35		AR1016-E			----------NA----------				
36		AR1260-A			----------NA----------				
37		AR1260-B			----------NA----------				
38		AR1260-C			----------NA----------				
39		AR1260-D			----------NA----------				

8.10.17

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231591.D

40		AR1260-E				----------NA----------			
41		AR1262-A				----------NA----------			
42		AR1262-B				----------NA----------			
43		AR1262-C				----------NA----------			
44		AR1262-D				----------NA----------			
45		AR1262-E				----------NA----------			
46		AR1268-A				----------NA----------			
47		AR1268-B				----------NA----------			
48		AR1268-C				----------NA----------			
49		AR1268-D				----------NA----------			
50		AR1268-E				----------NA----------			
51	S	Decachlorobiphenyl	381.754	416.681	E6	-9.1	111	0.00	12.40-12.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G231607.d 2PCBLVI6081full.M Thu May 02 11:22:28 2024

8.10.17

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231602.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\DATA\2G6081\2G231602.d\ECD1A.CH Vial: 0
Signal #2 : C:\msdchem\1\DATA\2G6081\2G231602.d\ECD2B.CH
Acq On : 01 May 2024 16:32 pm Operator: rebeccak
Sample : icv6081-100 (ar1248) Inst : GC2G
Misc : op53681,G2G6081,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\MET...PCBLVI6081full.M (ChemStation Integrator)
Title :
Last Update : Thu May 02 10:45:47 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	436.345	435.950 E6	0.1	95	0.00	4.65- 4.71
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
	----------	True	Calc.	% Drift	----------		
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A	100.000	98.350	1.7	94	0.00	5.15- 5.35
18	AR1248-B	100.000	97.893	2.1	93	0.00	5.52- 5.72
19	AR1248-C	100.000	96.954	3.0	93	0.00	5.79- 5.99
20	AR1248-D	100.000	96.514	3.5	93	0.00	5.99- 6.19
21	AR1248-E	100.000	102.122	-2.1	92	0.00	6.07- 6.27
22	AR1248-F	100.000	94.385	5.6	90	0.00	6.43- 6.63
23	AR1248-G	100.000	96.608	3.4	91	0.00	6.26- 7.26
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
	----------	AvgRF	CCRF	% Dev	----------		
31	AR1016-A		----------NA----------				
32	AR1016-B		----------NA----------				
33	AR1016-C		----------NA----------				
34	AR1016-D		----------NA----------				
35	AR1016-E		----------NA----------				
36	AR1260-A		----------NA----------				
37	AR1260-B		----------NA----------				

8.10.18

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231602.D

38		AR1260-C			----------NA----------				
39		AR1260-D			----------NA----------				
40		AR1260-E			----------NA----------				
41		AR1262-A			----------NA----------				
42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				
48		AR1268-C			----------NA----------				
49		AR1268-D			----------NA----------				
50		AR1268-E			----------NA----------				
51	S	Decachlorobiphenyl	395.051	429.440 E6	-8.7	106	0.00	11.28-11.34	
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	586.663	601.068 E6	-2.5	99	0.00	5.14- 5.20	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
		----------	True	Calc.	% Drift	----------			
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A	100.000	98.381	1.6	95	0.00	5.91- 6.11	
18		AR1248-B	100.000	97.665	2.3	95	0.00	6.38- 6.58	
19		AR1248-C	100.000	97.498	2.5	94	0.00	6.82- 7.02	
20		AR1248-D	100.000	98.005	2.0	94	0.00	7.22- 7.42	
21		AR1248-E	100.000	97.633	2.4	94	0.00	7.42- 7.62	
22		AR1248-F	100.000	96.553	3.4	93	0.00	7.94- 8.14	
23		AR1248-G	100.000	96.940	3.1	93	0.00	8.01- 9.01	
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------			
31		AR1016-A			----------NA----------				
32		AR1016-B			----------NA----------				
33		AR1016-C			----------NA----------				
34		AR1016-D			----------NA----------				
35		AR1016-E			----------NA----------				
36		AR1260-A			----------NA----------				
37		AR1260-B			----------NA----------				
38		AR1260-C			----------NA----------				
39		AR1260-D			----------NA----------				

8.10.18

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Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231602.D

40		AR1260-E			----------NA----------			
41		AR1262-A			----------NA----------			
42		AR1262-B			----------NA----------			
43		AR1262-C			----------NA----------			
44		AR1262-D			----------NA----------			
45		AR1262-E			----------NA----------			
46		AR1268-A			----------NA----------			
47		AR1268-B			----------NA----------			
48		AR1268-C			----------NA----------			
49		AR1268-D			----------NA----------			
50		AR1268-E			----------NA----------			
51	S	Decachlorobiphenyl	381.754	410.404 E6	-7.5	110	0.00	12.40-12.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G231607.d 2PCBLVI6081full.M Thu May 02 11:22:34 2024

8.10.18

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231613.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\DATA\2G6081\2G231613.d\ECD1A.CH Vial: 0
Signal #2 : C:\msdchem\1\DATA\2G6081\2G231613.d\ECD2B.CH
Acq On : 01 May 2024 21:07 pm Operator: rebeccak
Sample : icv6081-100 (ar1254) Inst : GC2G
Misc : op53681,G2G6081,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\MET...PCBLVI6081full.M (ChemStation Integrator)
Title :
Last Update : Thu May 02 10:45:47 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	436.345	430.485 E6	1.3	94	0.00	4.65- 4.71
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
	---------- True	Calc.	% Drift ----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A	100.000	93.614	6.4	92	0.00	5.96- 6.96
25	AR1254-B	100.000	95.686	4.3	92	0.00	6.65- 6.85
26	AR1254-C	100.000	93.960	6.0	91	0.00	7.00- 7.20
27	AR1254-D	100.000	94.307	5.7	91	0.00	7.17- 7.37
28	AR1254-E	100.000	93.350	6.7	91	0.00	7.58- 7.78
29	AR1254-F	100.000	95.794	4.2	93	0.00	7.90- 8.10
30	AR1254-G	100.000	94.684	5.3	92	0.00	8.43- 8.63
	---------- AvgRF	CCRF	% Dev ----------				
31	AR1016-A		----------NA----------				
32	AR1016-B		----------NA----------				
33	AR1016-C		----------NA----------				
34	AR1016-D		----------NA----------				
35	AR1016-E		----------NA----------				
36	AR1260-A		----------NA----------				
37	AR1260-B		----------NA----------				

8.10.19

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231613.D

38		AR1260-C			----------NA----------				
39		AR1260-D			----------NA----------				
40		AR1260-E			----------NA----------				
41		AR1262-A			----------NA----------				
42		AR1262-B			----------NA----------				
43		AR1262-C			----------NA----------				
44		AR1262-D			----------NA----------				
45		AR1262-E			----------NA----------				
46		AR1268-A			----------NA----------				
47		AR1268-B			----------NA----------				
48		AR1268-C			----------NA----------				
49		AR1268-D			----------NA----------				
50		AR1268-E			----------NA----------				
51	S	Decachlorobiphenyl	395.051	430.966 E6	-9.1	106	0.00	11.28-11.34	
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	586.663	580.589 E6	1.0	96	0.00	5.14- 5.20	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
		----------	True	Calc.	% Drift	----------			
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A	100.000	93.812	6.2	90	0.00	7.54- 8.54	
25		AR1254-B	100.000	92.932	7.1	89	0.00	8.29- 8.49	
26		AR1254-C	100.000	93.154	6.8	91	0.00	9.03- 9.23	
27		AR1254-D	100.000	92.826	7.2	91	0.00	9.24- 9.44	
28		AR1254-E	100.000	91.318	8.7	89	0.00	9.59- 9.79	
29		AR1254-F	100.000	95.545	4.5	94	0.00	10.06-10.26	
30		AR1254-G	100.000	94.080	5.9	92	0.00	10.31-10.51	
		----------	AvgRF	CCRF	% Dev	----------			
31		AR1016-A			----------NA----------				
32		AR1016-B			----------NA----------				
33		AR1016-C			----------NA----------				
34		AR1016-D			----------NA----------				
35		AR1016-E			----------NA----------				
36		AR1260-A			----------NA----------				
37		AR1260-B			----------NA----------				
38		AR1260-C			----------NA----------				
39		AR1260-D			----------NA----------				

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G2G6081-ICV6081
Lab FileID: 2G231613.D

40		AR1260-E			----------NA----------			
41		AR1262-A			----------NA----------			
42		AR1262-B			----------NA----------			
43		AR1262-C			----------NA----------			
44		AR1262-D			----------NA----------			
45		AR1262-E			----------NA----------			
46		AR1268-A			----------NA----------			
47		AR1268-B			----------NA----------			
48		AR1268-C			----------NA----------			
49		AR1268-D			----------NA----------			
50		AR1268-E			----------NA----------			
51	S	Decachlorobiphenyl	381.754	440.166 E6	-15.3	117	0.00	12.40-12.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G231607.d 2PCBLVI6081full.M Thu May 02 11:22:36 2024

8.10.19

8

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G2G6085-CC6081
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 2G231731.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\ma...5\2G231731.d\ECD1A.CH Vial: 0
Signal #2 : C:\msdchem\1\data\maryan...G6085\2G231731.d\ECD2B.CH
Acq On : 09-May-24, 04:02:50 Operator: mahalial
Sample : cc6081-100 Inst : GC2G
Misc : op54385,G2G6085,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...PCBLVI6081full.M (ChemStation Integrator)
Title :
Last Update : Thu May 09 12:25:10 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	436.345	473.049 E6	-8.4	103	0.00	4.66- 4.72
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
	---------- True	Calc.	% Drift ----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
	---------- AvgRF	CCRF	% Dev ----------				
31	AR1016-A	7.461	8.690 E6	-16.5	115	0.00	4.95- 5.01
32	AR1016-B	14.857	16.530 E6	-11.3	110	0.00	5.23- 5.29
33	AR1016-C	32.048	36.555 E6	-14.1	112	0.00	5.59- 5.65
34	AR1016-D	13.036	13.913 E6	-6.7	108	0.00	5.72- 5.78
35	AR1016-E	14.318	14.607 E6	-2.0	102	0.00	6.07- 6.13
36	AR1260-A	38.935	44.415 E6	-14.1	110	0.00	8.52- 8.58
37	AR1260-B	27.790	34.141 E6	-22.9#	120	0.00	8.76- 8.82

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G2G6085-CC6081
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 2G231731.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

38		AR1260-C	23.568	27.052	E6	-14.8	111	0.00	9.23- 9.29
39		AR1260-D	66.037	75.236	E6	-13.9	108	0.00	9.72- 9.78
40		AR1260-E	62.209	66.261	E6	-6.5	103	0.00	10.06-10.21
41		AR1262-A		----------NA----------					
42		AR1262-B		----------NA----------					
43		AR1262-C		----------NA----------					
44		AR1262-D		----------NA----------					
45		AR1262-E		----------NA----------					
46		AR1268-A		----------NA----------					
47		AR1268-B		----------NA----------					
48		AR1268-C		----------NA----------					
49		AR1268-D		----------NA----------					
50		AR1268-E		----------NA----------					
51	S	Decachlorobiphenyl	395.051	423.557	E6	-7.2	105	0.00	11.29-11.35
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	586.663	617.653	E6	-5.3	102	0.00	5.15- 5.21
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
		---------- True	Calc.	% Drift ----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
		---------- AvgRF	CCRF	% Dev ----------					
31		AR1016-A	8.605	9.124	E6	-6.0	100	0.00	5.60- 5.66
32		AR1016-B	18.771	19.242	E6	-2.5	100	0.00	5.99- 6.05
33		AR1016-C	46.822	47.085	E6	-0.6	99	0.00	6.49- 6.55
34		AR1016-D	16.725	17.075	E6	-2.1	96	0.00	6.66- 6.72
35		AR1016-E	14.308	13.822	E6	3.4	94	0.00	7.30- 7.36
36		AR1260-A	48.153	42.712	E6	11.3	87	0.00	10.39-10.45
37		AR1260-B	32.379	29.391	E6	9.2	88	0.00	10.49-10.55
38		AR1260-C	28.786	25.738	E6	10.6	89	0.00	10.83-10.89
39		AR1260-D	67.110	67.677	E6	-0.8	91	0.00	11.07-11.13

8.10.20

8

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G2G6085-CC6081
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 2G231731.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

40		AR1260-E	60.122	58.100	E6	3.4	94	0.00	11.43-11.49
41		AR1262-A		----------NA----------					
42		AR1262-B		----------NA----------					
43		AR1262-C		----------NA----------					
44		AR1262-D		----------NA----------					
45		AR1262-E		----------NA----------					
46		AR1268-A		----------NA----------					
47		AR1268-B		----------NA----------					
48		AR1268-C		----------NA----------					
49		AR1268-D		----------NA----------					
50		AR1268-E		----------NA----------					
51	S	Decachlorobiphenyl	381.754	394.102	E6	-3.2	105	-0.01	12.40-12.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G231607.d 2PCBLVI6081full.M Thu May 09 18:17:25 2024

8.10.20

8

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G2G6085-CC6081
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 2G231742.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\ma...5\2G231742.D\ECD1A.CH Vial: 0
Signal #2 : C:\msdchem\1\data\maryan...G6085\2G231742.D\ECD2B.CH
Acq On    : 09-May-24, 08:28:07                    Operator: christp
Sample    : cc6081-50                              Inst    : GC2G
Misc      : op54453,G2G6085,5.0,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\msdchem\1\dat...PCBLVI6081full.M (ChemStation Integrator)
Title        :
Last Update  : Thu May 09 12:25:10 2024
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	436.345	496.048 E6	-13.7	110	0.00	4.66- 4.72
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
	---------- True	Calc.	% Drift ----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
	---------- AvgRF	CCRF	% Dev ----------				
31	AR1016-A	7.461	8.785 E6	-17.7	121	0.00	4.95- 5.01
32	AR1016-B	14.857	16.000 E6	-7.7	106	0.00	5.22- 5.28
33	AR1016-C	32.048	35.373 E6	-10.4	110	0.00	5.59- 5.65
34	AR1016-D	13.036	13.098 E6	-0.5	101	0.00	5.71- 5.77
35	AR1016-E	14.318	13.413 E6	6.3	94	0.00	6.07- 6.13
36	AR1260-A	38.935	42.485 E6	-9.1	107	0.00	8.52- 8.58
37	AR1260-B	27.790	31.635 E6	-13.8	112	-0.01	8.76- 8.82

8.10.21

8

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G2G6085-CC6081
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 2G231742.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

38		AR1260-C	23.568	22.496	E6	4.5	93	0.00	9.23- 9.29
39		AR1260-D	66.037	66.667	E6	-1.0	97	0.00	9.72- 9.78
40		AR1260-E	62.209	55.169	E6	11.3	88	0.00	10.05-10.21
41		AR1262-A		----------NA----------					
42		AR1262-B		----------NA----------					
43		AR1262-C		----------NA----------					
44		AR1262-D		----------NA----------					
45		AR1262-E		----------NA----------					
46		AR1268-A		----------NA----------					
47		AR1268-B		----------NA----------					
48		AR1268-C		----------NA----------					
49		AR1268-D		----------NA----------					
50		AR1268-E		----------NA----------					
51	S	Decachlorobiphenyl	395.051	323.904	E6	18.0	81	0.00	11.28-11.34
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	586.663	641.959	E6	-9.4	110	0.00	5.15- 5.21
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
		---------- True	Calc.	% Drift ----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
		---------- AvgRF	CCRF	% Dev ----------					
31		AR1016-A	8.605	9.583	E6	-11.4	108	0.00	5.60- 5.66
32		AR1016-B	18.771	19.325	E6	-3.0	99	0.00	5.99- 6.05
33		AR1016-C	46.822	44.144	E6	5.7	94	0.00	6.49- 6.55
34		AR1016-D	16.725	16.235	E6	2.9	97	0.00	6.65- 6.71
35		AR1016-E	14.308	12.979	E6	9.3	90	0.00	7.30- 7.36
36		AR1260-A	48.153	36.049	E6	25.1#	76	0.00	10.39-10.45
37		AR1260-B	32.379	24.610	E6	24.0#	76	0.00	10.49-10.55
38		AR1260-C	28.786	21.530	E6	25.2#	77	0.00	10.82-10.88
39		AR1260-D	67.110	56.691	E6	15.5	80	0.00	11.07-11.13

8.10.21

8

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G2G6085-CC6081
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 2G231742.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

40		AR1260-E	60.122	50.158	E6	16.6	85	0.00	11.43-11.49
41		AR1262-A	----------NA----------						
42		AR1262-B	----------NA----------						
43		AR1262-C	----------NA----------						
44		AR1262-D	----------NA----------						
45		AR1262-E	----------NA----------						
46		AR1268-A	----------NA----------						
47		AR1268-B	----------NA----------						
48		AR1268-C	----------NA----------						
49		AR1268-D	----------NA----------						
50		AR1268-E	----------NA----------						
51	S	Decachlorobiphenyl	381.754	580.076	E6	-52.0#	154#	-0.01	12.40-12.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G231695.D 2PCBLVI6081full.M Thu May 09 13:32:32 2024

8.10.21

8

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G2G6085-CC6081
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 2G231753.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\ma...5\2G231753.D\ECD1A.CH Vial: 0
Signal #2 : C:\msdchem\1\data\maryan...G6085\2G231753.D\ECD2B.CH
Acq On : 09-May-24, 12:51:14 Operator: christp
Sample : cc6081-100 Inst : GC2G
Misc : op54453,G2G6085,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...PCBLVI6081full.M (ChemStation Integrator)
Title :
Last Update : Thu May 09 12:25:10 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	436.345	487.618 E6	-11.8	107	0.00	4.66- 4.72
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
	---------- True	Calc.	% Drift ----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
	---------- AvgRF	CCRF	% Dev ----------				
31	AR1016-A	7.461	8.472 E6	-13.6	112	0.00	4.95- 5.01
32	AR1016-B	14.857	15.637 E6	-5.3	104	0.00	5.22- 5.28
33	AR1016-C	32.048	35.227 E6	-9.9	108	0.00	5.59- 5.65
34	AR1016-D	13.036	13.272 E6	-1.8	103	0.00	5.71- 5.77
35	AR1016-E	14.318	13.778 E6	3.8	97	0.00	6.07- 6.13
36	AR1260-A	38.935	39.140 E6	-0.5	97	-0.01	8.52- 8.58
37	AR1260-B	27.790	30.879 E6	-11.1	108	-0.01	8.76- 8.82

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G2G6085-CC6081
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 2G231753.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

38		AR1260-C	23.568	21.735	E6	7.8	89	0.00	9.23- 9.29
39		AR1260-D	66.037	61.375	E6	7.1	88	0.00	9.72- 9.78
40		AR1260-E	62.209	47.587	E6	23.5#	74	0.00	10.05-10.21
41		AR1262-A		----------NA----------					
42		AR1262-B		----------NA----------					
43		AR1262-C		----------NA----------					
44		AR1262-D		----------NA----------					
45		AR1262-E		----------NA----------					
46		AR1268-A		----------NA----------					
47		AR1268-B		----------NA----------					
48		AR1268-C		----------NA----------					
49		AR1268-D		----------NA----------					
50		AR1268-E		----------NA----------					
51	S	Decachlorobiphenyl	395.051	281.564	E6	28.7#	70	0.00	11.28-11.34
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	586.663	641.133	E6	-9.3	106	0.00	5.15- 5.21
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
		---------- True	Calc.	% Drift ----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
		---------- AvgRF	CCRF	% Dev ----------					
31		AR1016-A	8.605	9.059	E6	-5.3	100	0.00	5.60- 5.66
32		AR1016-B	18.771	19.103	E6	-1.8	99	0.00	5.99- 6.05
33		AR1016-C	46.822	43.832	E6	6.4	92	0.00	6.49- 6.55
34		AR1016-D	16.725	15.436	E6	7.7	87	0.00	6.66- 6.72
35		AR1016-E	14.308	12.275	E6	14.2	84	0.00	7.30- 7.36
36		AR1260-A	48.153	32.036	E6	33.5#	66	0.00	10.39-10.45
37		AR1260-B	32.379	21.206	E6	34.5#	63	0.00	10.49-10.55
38		AR1260-C	28.786	18.371	E6	36.2#	63	0.00	10.83-10.89
39		AR1260-D	67.110	48.089	E6	28.3#	65	0.00	11.07-11.13

8.10.22

8

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G2G6085-CC6081
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 2G231753.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

40		AR1260-E	60.122	42.831	E6	28.8#	69	0.00	11.43-11.49
41		AR1262-A		----------NA----------					
42		AR1262-B		----------NA----------					
43		AR1262-C		----------NA----------					
44		AR1262-D		----------NA----------					
45		AR1262-E		----------NA----------					
46		AR1268-A		----------NA----------					
47		AR1268-B		----------NA----------					
48		AR1268-C		----------NA----------					
49		AR1268-D		----------NA----------					
50		AR1268-E		----------NA----------					
51	S	Decachlorobiphenyl	381.754	341.948	E6	10.4	91	-0.01	12.41-12.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G231607.d 2PCBLVI6081full.M Thu May 09 18:21:56 2024

8.10.22

8

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G2G6085-CC6081
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 2G231764.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\2g6085\2G231764.D\ECD1A.CH Vial: 0
Signal #2 : C:\msdchem\1\data\2g6085\2G231764.D\ECD2B.CH
Acq On : 09 May 2024 5:16 pm Operator: christp
Sample : cc6081-50 Inst : GC2G
Misc : op54453,G2G6085,5.4,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...PCBLVI6081full.M (ChemStation Integrator)
Title :
Last Update : Thu May 02 10:45:47 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	436.345	486.640 E6	-11.5	108	0.00	4.66- 4.72
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
	---------- True	Calc.	% Drift ----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
	---------- AvgRF	CCRF	% Dev ----------				
31	AR1016-A	7.461	8.391 E6	-12.5	115	0.00	4.95- 5.01
32	AR1016-B	14.857	15.749 E6	-6.0	104	0.00	5.22- 5.28
33	AR1016-C	32.048	34.551 E6	-7.8	107	0.00	5.59- 5.65
34	AR1016-D	13.036	12.988 E6	0.4	100	0.00	5.71- 5.77
35	AR1016-E	14.318	13.291 E6	7.2	93	0.00	6.07- 6.13
36	AR1260-A	38.935	42.485 E6	-9.1	107	0.02	8.52- 8.58
37	AR1260-B	27.790	31.066 E6	-11.8	110	0.02	8.76- 8.82

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G2G6085-CC6081
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 2G231764.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

38		AR1260-C	23.568	22.413	E6	4.9	92	0.02	9.23- 9.29
39		AR1260-D	66.037	62.614	E6	5.2	91	0.03	9.72- 9.78
40		AR1260-E	62.209	58.911	E6	5.3	94	0.00	10.05-10.21
41		AR1262-A		----------NA----------					
42		AR1262-B		----------NA----------					
43		AR1262-C		----------NA----------					
44		AR1262-D		----------NA----------					
45		AR1262-E		----------NA----------					
46		AR1268-A		----------NA----------					
47		AR1268-B		----------NA----------					
48		AR1268-C		----------NA----------					
49		AR1268-D		----------NA----------					
50		AR1268-E		----------NA----------					
51	S	Decachlorobiphenyl	395.051	298.216	E6	24.5#	74	0.00	11.28-11.34

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	586.663	639.324	E6	-9.0	109	0.00	5.15- 5.21
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					

		---------- True	Calc.	% Drift	----------				
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					

		---------- AvgRF	CCRF	% Dev	----------				
31		AR1016-A	8.605	9.475	E6	-10.1	107	0.00	5.60- 5.66
32		AR1016-B	18.771	19.745	E6	-5.2	101	0.00	5.99- 6.05
33		AR1016-C	46.822	43.021	E6	8.1	91	0.02	6.49- 6.55
34		AR1016-D	16.725	15.452	E6	7.6	93	0.00	6.66- 6.72
35		AR1016-E	14.308	13.015	E6	9.0	90	0.01	7.30- 7.36
36		AR1260-A	48.153	37.820	E6	21.5#	80	0.04	10.39-10.45
37		AR1260-B	32.379	25.451	E6	21.4#	79	0.01	10.49-10.55
38		AR1260-C	28.786	19.500	E6	32.3#	69	0.00	10.82-10.88
39		AR1260-D	67.110	51.001	E6	24.0#	72	0.01	11.07-11.13

8.10.23

8

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G2G6085-CC6081
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 2G231764.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

40		AR1260-E	60.122	45.824	E6	23.8#	78	0.03	11.43-11.49
41		AR1262-A		----------NA----------					
42		AR1262-B		----------NA----------					
43		AR1262-C		----------NA----------					
44		AR1262-D		----------NA----------					
45		AR1262-E		----------NA----------					
46		AR1268-A		----------NA----------					
47		AR1268-B		----------NA----------					
48		AR1268-C		----------NA----------					
49		AR1268-D		----------NA----------					
50		AR1268-E		----------NA----------					
51	S	Decachlorobiphenyl	381.754	305.460	E6	20.0	81	0.00	12.40-12.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2G231606.d 2PCBLVI6081full.M Thu May 09 18:26:07 2024

8.10.23

8

Initial Calibration Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICC5160
Lab FileID: 3G140974.D

Response Factor Report GC3G

Method : C:\MSDCHEM\1\METHODS\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : 23 Apr 2024 19:54 pm
Response via : Initial Calibration

Calibration Files
50 =3G140971.d 250 =3G140972.d 500 =3G140973.d 1000=3G140974.d
2000 =3G140975.d 3000 =3G140976.d

	Compound	50	250	500	1000	2000	3000	Avg	%RSD
1) S	Tetrachloro-m-xylen	8.746	7.746	8.718	8.234	7.118	6.840	7.900 E6	10.21
2)	AR1221-A				5.856			5.856 E4	0.00
3)	AR1221-B				8.729			8.729 E4	0.00
4)	AR1221-C				2.033			2.033 E5	0.00
5)	AR1221-D				4.713			4.713 E4	0.00
6)	AR1221-E				4.835			4.835 E4	0.00
7)	AR1232-A				1.426			1.426 E5	0.00
8)	AR1232-B				1.039			1.039 E5	0.00
9)	AR1232-C				2.211			2.211 E5	0.00
10)	AR1232-D				9.464			9.464 E4	0.00
11)	AR1232-E				9.332			9.332 E4	0.00
12)	AR1242-A				1.957			1.957 E5	0.00
13)	AR1242-B				3.996			3.996 E5	0.00
14)	AR1242-C				1.705			1.705 E5	0.00
15)	AR1242-D				1.852			1.852 E5	0.00
16)	AR1242-E				1.476			1.476 E5	0.00
17)	AR1248-A				9.354			9.354 E4	0.00
18)	AR1248-B				2.520			2.520 E5	0.00
19)	AR1248-C				1.451			1.451 E5	0.00
20)	AR1248-D				2.090			2.090 E5	0.00
21)	AR1248-E				1.471			1.471 E5	0.00
22)	AR1248-F				2.440			2.440 E5	0.00
23)	AR1248-G				2.093			2.093 E5	0.00
24)	AR1254-A				2.258			2.258 E5	0.00
25)	AR1254-B				3.123			3.123 E5	0.00
26)	AR1254-C				2.540			2.540 E5	0.00
27)	AR1254-D				4.359			4.359 E5	0.00
28)	AR1254-E				3.072			3.072 E5	0.00
29)	AR1254-F				3.019			3.019 E5	0.00
30)	AR1254-G				4.379			4.379 E5	0.00
31)	AR1262-A				3.466			3.466 E5	0.00
32)	AR1262-B				4.396			4.396 E5	0.00
33)	AR1262-C				4.179			4.179 E5	0.00
34)	AR1262-D				9.474			9.474 E5	0.00
35)	AR1262-E				1.030			1.030 E6	0.00
36)	AR1268-A				8.907			8.907 E5	0.00
37)	AR1268-B				9.936			9.936 E5	0.00
38)	AR1268-C				7.917			7.917 E5	0.00
39)	AR1268-D				3.299			3.299 E5	0.00
40)	AR1268-E				2.566			2.566 E6	0.00
41)	AR1016-A	1.633	1.427	1.452	1.291	1.111	1.038	1.325 E5	16.89
42)	AR1016-B	3.187	2.716	2.795	2.532	2.161	2.050	2.573 E5	16.41
43)	AR1016-C	6.440	5.454	5.764	5.384	4.727	4.518	5.381 E5	13.00
44)	AR1016-D	3.016	2.514	2.473	2.272	1.979	1.877	2.355 E5	17.54
45)	AR1016-E	2.895	2.574	2.700	2.480	2.177	2.088	2.486 E5	12.39
46)	AR1260-A	5.069	4.554	4.969	4.784	4.345	4.194	4.652 E5	7.48
47)	AR1260-B	3.110	2.824	3.116	2.980	2.698	2.604	2.889 E5	7.44

Initial Calibration Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICC5160
Lab FileID: 3G140974.D

48)		AR1260-C	3.299	2.953	3.387	3.283	3.028	2.944	3.149 E5	6.22
49)		AR1260-D	7.554	7.042	8.289	7.949	7.242	7.001	7.513 E5	6.92
50)		AR1260-E	7.944	7.377	8.156	7.928	7.233	7.000	7.606 E5	6.11
51)	S	Decachlorobiphenyl	6.815	6.290	7.737	7.364	5.940	5.783	6.655 E6	11.84

Signal #2

1)	S	Tetrachloro-m-xylen	1.938	1.797	2.023	1.914	1.647	1.577	1.816 E7	9.64
2)		AR1221-A				1.095			1.095 E5	0.00
3)		AR1221-B				2.051			2.051 E5	0.00
4)		AR1221-C				4.615			4.615 E5	0.00
5)		AR1221-D				1.625			1.625 E5	0.00
6)		AR1221-E				1.156			1.156 E5	0.00
7)		AR1232-A				3.228			3.228 E5	0.00
8)		AR1232-B				2.666			2.666 E5	0.00
9)		AR1232-C				5.506			5.506 E5	0.00
10)		AR1232-D				2.189			2.189 E5	0.00
11)		AR1232-E				1.539			1.539 E5	0.00
12)		AR1242-A				4.516			4.516 E5	0.00
13)		AR1242-B				1.009			1.009 E6	0.00
14)		AR1242-C				3.946			3.946 E5	0.00
15)		AR1242-D				3.137			3.137 E5	0.00
16)		AR1242-E				3.868			3.868 E5	0.00
17)		AR1248-A				2.225			2.225 E5	0.00
18)		AR1248-B				6.457			6.457 E5	0.00
19)		AR1248-C				3.767			3.767 E5	0.00
20)		AR1248-D				5.078			5.078 E5	0.00
21)		AR1248-E				4.904			4.904 E5	0.00
22)		AR1248-F				6.976			6.976 E5	0.00
23)		AR1248-G				6.850			6.850 E5	0.00
24)		AR1254-A				6.007			6.007 E5	0.00
25)		AR1254-B				6.732			6.732 E5	0.00
26)		AR1254-C				5.612			5.612 E5	0.00
27)		AR1254-D				1.057			1.057 E6	0.00
28)		AR1254-E				7.961			7.961 E5	0.00
29)		AR1254-F				4.127			4.127 E5	0.00
30)		AR1254-G				8.631			8.631 E5	0.00
31)		AR1262-A				7.914			7.914 E5	0.00
32)		AR1262-B				1.187			1.187 E6	0.00
33)		AR1262-C				1.014			1.014 E6	0.00
34)		AR1262-D				2.317			2.317 E6	0.00
35)		AR1262-E				2.664			2.664 E6	0.00
36)		AR1268-A				2.670			2.670 E6	0.00
37)		AR1268-B				2.588			2.588 E6	0.00
38)		AR1268-C				2.191			2.191 E6	0.00
39)		AR1268-D				8.830			8.830 E5	0.00
40)		AR1268-E				6.339			6.339 E6	0.00
41)		AR1016-A	3.877	3.213	3.375	3.007	2.509	2.347	3.055 E5	18.53
42)		AR1016-B	7.305	6.386	6.673	5.994	5.059	4.667	6.014 E5	16.57
43)		AR1016-C	1.645	1.402	1.483	1.360	1.189	1.112	1.365 E6	14.22
44)		AR1016-D	5.942	5.386	5.777	5.328	4.584	4.274	5.215 E5	12.64
45)		AR1016-E	4.921	4.367	4.607	4.276	3.719	3.510	4.233 E5	12.59
46)		AR1260-A	1.126	0.978	1.051	0.990	0.879	0.841	0.977 E6	10.81
47)		AR1260-B	8.980	8.020	8.660	8.151	7.254	6.993	8.010 E5	9.65
48)		AR1260-C	9.721	8.224	8.941	8.446	7.562	7.280	8.362 E5	10.72
49)		AR1260-D	2.055	1.941	2.122	2.042	1.850	1.783	1.966 E6	6.65
50)		AR1260-E	1.986	1.871	2.098	1.979	1.779	1.683	1.899 E6	8.00
51)	S	Decachlorobiphenyl	1.395	1.394	1.755	1.666	1.311	1.264	1.464 E7	13.61

(#) = Out of Range

8.10.24

8

Initial Calibration Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICC5160
Lab FileID: 3G140974.D

3PCB5160.M Thu Apr 25 11:38:32 2024 RPT1

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140987.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\3G5160\3G140987.d\ECD1A.CH Vial: 19
Signal #2 : C:\msdchem\1\data\3G5160\3G140987.d\ECD2B.CH
Acq On : 23 Apr 2024 19:54 pm Operator: mahalial
Sample : icv5160-1000 (ar1016/1260) Inst : GC3G
Misc : op53949,g3g5160,15.0,,,1,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : Wed Apr 24 07:06:11 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.900	8.976 E6	-13.6	109	0.00	3.44- 3.50
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	132.538	132.562 E3	-0.0	103	0.00	3.85- 3.91

8.10.25

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140987.D

42		AR1016-B	257.349	269.358	E3	-4.7	106	0.00	4.30- 4.36
43		AR1016-C	538.119	561.157	E3	-4.3	104	0.00	4.90- 4.96
44		AR1016-D	235.528	236.730	E3	-0.5	104	0.00	5.07- 5.13
45		AR1016-E	248.580	243.091	E3	2.2	98	0.00	5.61- 5.68
46		AR1260-A	465.226	511.836	E3	-10.0	107	0.00	7.67- 7.73
47		AR1260-B	288.893	256.013	E3	11.4	86	0.00	8.21- 8.27
48		AR1260-C	314.897	297.696	E3	5.5	91	0.00	8.55- 8.62
49		AR1260-D	751.304	726.207	E3	3.3	91	0.00	9.00- 9.06
50		AR1260-E	760.628	677.468	E3	10.9	85	0.01	9.40- 9.46
51	S	Decachlorobiphenyl	6.655	8.236	E6	-23.8#	112	0.01	10.94-11.01

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	18.161	20.504	E6	-12.9	107	0.00	4.05- 4.11
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	305.459	303.986	E3	0.5	101	0.00	4.73- 4.79
42		AR1016-B	601.393	626.868	E3	-4.2	105	0.00	5.30- 5.36
43		AR1016-C	1.365	1.434	E6	-5.1	105	0.00	5.95- 6.01
44		AR1016-D	521.521	558.604	E3	-7.1	105	0.00	6.14- 6.20
45		AR1016-E	423.325	435.185	E3	-2.8	102	0.00	6.81- 6.87
46		AR1260-A	0.977	1.052	E6	-7.7	106	0.00	8.91- 8.97
47		AR1260-B	800.981	740.443	E3	7.6	91	0.00	9.56- 9.62

8.10.25

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140987.D

48		AR1260-C	836.230	796.717	E3	4.7	94	0.00	10.00-10.06
49		AR1260-D	1.966	1.925	E6	2.1	94	0.00	10.34-10.40
50		AR1260-E	1.899	1.768	E6	6.9	89	0.00	10.89-10.95
51	S	Decachlorobiphenyl	14.641	18.184	E6	-24.2#	109	0.00	12.57-12.63

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3G140974.d 3PCB5160.M Wed Apr 24 11:02:01 2024 RPT1

8.10.25
8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140988.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\3G5160\3G140988.d\ECD1A.CH Vial: 20
Signal #2 : C:\msdchem\1\data\3G5160\3G140988.d\ECD2B.CH
Acq On : 23 Apr 2024 20:11 pm Operator: mahalial
Sample : icv5160-1000 (ar1221) Inst : GC3G
Misc : op53949,g3g5160,15.0,,,1,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : Wed Apr 24 07:06:11 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	7.900	7.708 E6	2.4	94	0.00	3.44- 3.50
2	AR1221-A	58.563	51.314 E3	12.4	88	0.00	2.77- 2.97
3	AR1221-B	87.295	74.789 E3	14.3	86	0.00	3.55- 3.75
4	AR1221-C	203.322	170.722 E3	16.0	84	0.00	3.78- 3.98
5	AR1221-D	47.135	38.413 E3	18.5	81	0.00	4.23- 4.43
6	AR1221-E	48.348	38.025 E3	21.4#	79	0.00	4.83- 5.03
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140988.D

42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				
48		AR1260-C		----------NA----------				
49		AR1260-D		----------NA----------				
50		AR1260-E		----------NA----------				
51	S	Decachlorobiphenyl	6.655	6.911 E6	-3.8	94	0.02	10.95-11.02
*****		Signal #2 *****						
1	S	Tetrachloro-m-xylene	18.161	18.166 E6	-0.0	95	0.00	4.05- 4.11
2		AR1221-A	109.498	94.735 E3	13.5	87	0.00	3.44- 3.50
3		AR1221-B	205.054	174.079 E3	15.1	85	0.00	4.37- 4.57
4		AR1221-C	461.480	392.103 E3	15.0	85	0.00	4.66- 4.86
5		AR1221-D	162.464	137.654 E3	15.3	85	0.00	5.31- 5.51
6		AR1221-E	115.574	94.702 E3	18.1	82	0.00	5.88- 6.08
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				
42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				

8.10.26

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140988.D

48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	14.641	16.339 E6	-11.6	98	0.00	12.57-12.63	

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3G140974.d 3PCB5160.M Wed Apr 24 11:02:08 2024 RPT1

8.10.26

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140989.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\3G5160\3G140989.d\ECD1A.CH Vial: 21
Signal #2 : C:\msdchem\1\data\3G5160\3G140989.d\ECD2B.CH
Acq On : 23 Apr 2024 20:28 pm Operator: mahalial
Sample : icv5160-1000 (ar1254) Inst : GC3G
Misc : op53949,g3g5160,15.0,,,1,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : Wed Apr 24 07:06:11 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	7.900	7.669 E6	2.9	93	0.00	3.43- 3.49
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A	225.829	207.200 E3	8.2	92	0.00	6.06- 6.26
25	AR1254-B	312.276	292.276 E3	6.4	94	0.00	6.41- 6.61
26	AR1254-C	253.985	239.623 E3	5.7	94	0.00	6.79- 6.99
27	AR1254-D	435.911	414.187 E3	5.0	95	0.00	6.96- 7.16
28	AR1254-E	307.197	291.634 E3	5.1	95	0.00	7.34- 7.54
29	AR1254-F	301.898	290.456 E3	3.8	96	0.00	7.60- 7.80
30	AR1254-G	437.950	423.096 E3	3.4	97	0.00	7.99- 8.19
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140989.D

42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				
48		AR1260-C		----------NA----------				
49		AR1260-D		----------NA----------				
50		AR1260-E		----------NA----------				
51	S	Decachlorobiphenyl	6.655	7.278 E6	-9.4	99	0.02	10.95-11.02
*****		Signal #2 *****						
1	S	Tetrachloro-m-xylene	18.161	18.250 E6	-0.5	95	0.00	4.05- 4.11
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A	600.685	587.591 E3	2.2	98	0.00	7.34- 7.54
25		AR1254-B	673.229	652.026 E3	3.1	97	0.00	7.60- 7.80
26		AR1254-C	561.178	547.706 E3	2.4	98	0.00	8.11- 8.31
27		AR1254-D	1.057	1.033 E6	2.3	98	0.00	8.28- 8.48
28		AR1254-E	796.120	783.212 E3	1.6	98	0.00	8.59- 8.79
29		AR1254-F	412.718	407.356 E3	1.3	99	0.00	9.08- 9.28
30		AR1254-G	863.096	864.811 E3	-0.2	100	0.00	9.37- 9.57
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				
42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				

8.10.27

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140989.D

```
48      AR1260-C                              ----------NA----------
49      AR1260-D                              ----------NA----------
50      AR1260-E                              ----------NA----------
51 S    Decachlorobiphenyl       14.641  16.185 E6 -10.5   97   0.00   12.57-12.63
------------------------------------------------------------------------------
------------------------------------------------------------------------------

   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    3G140974.d 3PCB5160.M       Wed Apr 24 11:02:10 2024   RPT1
```

8.10.27

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140990.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\3G5160\3G140990.d\ECD1A.CH Vial: 22
Signal #2 : C:\msdchem\1\data\3G5160\3G140990.d\ECD2B.CH
Acq On : 23 Apr 2024 20:44 pm Operator: mahalial
Sample : icv5160-1000 (ar1232) Inst : GC3G
Misc : op53949,g3g5160,15.0,,,1,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : Wed Apr 24 07:06:11 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.900	9.202 E6	-16.5	112	0.00	3.44- 3.50
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A	142.648	157.384 E3	-10.3	110	0.00	3.78- 3.98
8		AR1232-B	103.876	115.340 E3	-11.0	111	0.00	4.23- 4.43
9		AR1232-C	221.142	240.413 E3	-8.7	109	0.00	4.83- 5.03
10		AR1232-D	94.644	103.810 E3	-9.7	110	0.00	5.00- 5.20
11		AR1232-E	93.317	100.853 E3	-8.1	108	0.00	5.54- 5.74
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140990.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	6.655	8.100	E6 -21.7#	110	0.02	10.95-11.02	
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	18.161	20.661	E6 -13.8	108	0.00	4.05- 4.11	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A	322.760	362.817	E3 -12.4	112	0.00	4.66- 4.86	
8		AR1232-B	266.552	298.841	E3 -12.1	112	0.00	5.22- 5.42	
9		AR1232-C	550.620	632.444	E3 -14.9	115	0.00	5.88- 6.08	
10		AR1232-D	218.926	251.602	E3 -14.9	115	0.00	6.07- 6.27	
11		AR1232-E	153.914	176.812	E3 -14.9	115	0.00	6.74- 6.94	
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A			----------NA----------				
37		AR1268-B			----------NA----------				
38		AR1268-C			----------NA----------				
39		AR1268-D			----------NA----------				
40		AR1268-E			----------NA----------				
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140990.D

```
48      AR1260-C                              ----------NA----------
49      AR1260-D                              ----------NA----------
50      AR1260-E                              ----------NA----------
51 S    Decachlorobiphenyl      14.641  18.746 E6 -28.0# 113   0.00   12.57-12.63
------------------------------------------------------------------------------
------------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    3G140974.d 3PCB5160.M       Wed Apr 24 11:02:12 2024   RPT1
```

8.10.28

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140991.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\3G5160\3G140991.d\ECD1A.CH Vial: 23
Signal #2 : C:\msdchem\1\data\3G5160\3G140991.d\ECD2B.CH
Acq On : 23 Apr 2024 21:01 pm Operator: mahalial
Sample : icv5160-1000 (ar1262) Inst : GC3G
Misc : op53949,g3g5160,15.0,,,1,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : Wed Apr 24 07:06:11 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	7.900	7.855 E6	0.6	95	0.00	3.44- 3.50
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A	346.601	314.404 E3	9.3	91	0.00	7.60- 7.80
32	AR1262-B	439.628	396.354 E3	9.8	90	0.00	8.15- 8.35
33	AR1262-C	417.854	377.608 E3	9.6	90	0.00	8.49- 8.69
34	AR1262-D	947.367	867.997 E3	8.4	92	0.00	8.93- 9.13
35	AR1262-E	1.030	0.946 E6	8.2	92	0.00	9.38- 9.58
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140991.D

42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				
48		AR1260-C		----------NA----------				
49		AR1260-D		----------NA----------				
50		AR1260-E		----------NA----------				
51	S	Decachlorobiphenyl	6.655	7.438 E6	-11.8	101	0.02	10.95-11.02
*****		Signal #2 *****						
1	S	Tetrachloro-m-xylene	18.161	18.787 E6	-3.4	98	0.00	4.05- 4.11
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A	791.419	758.245 E3	4.2	96	0.00	8.84- 9.04
32		AR1262-B	1.187	1.161 E6	2.2	98	0.00	9.49- 9.69
33		AR1262-C	1.014	0.976 E6	3.7	96	0.00	9.93-10.13
34		AR1262-D	2.317	2.279 E6	1.6	98	0.00	10.27-10.47
35		AR1262-E	2.664	2.600 E6	2.4	98	0.00	10.79-10.99
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				
42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				

8.10.29

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140991.D

```
48      AR1260-C                              ----------NA----------
49      AR1260-D                              ----------NA----------
50      AR1260-E                              ----------NA----------
51 S    Decachlorobiphenyl       14.641  16.781 E6 -14.6  101   0.00   12.57-12.63
------------------------------------------------------------------------------
------------------------------------------------------------------------------

   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    3G140974.d 3PCB5160.M       Wed Apr 24 11:02:14 2024   RPT1
```

8.10.29

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140992.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\3G5160\3G140992.d\ECD1A.CH Vial: 24
Signal #2 : C:\msdchem\1\data\3G5160\3G140992.d\ECD2B.CH
Acq On : 23 Apr 2024 21:18 pm Operator: mahalial
Sample : icv5160-1000 (ar1242) Inst : GC3G
Misc : op53949,g3g5160,15.0,,,1,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : Wed Apr 24 07:06:11 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.900	8.094 E6	-2.5	98	0.00	3.44- 3.50
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A	195.700	214.627 E3	-9.7	110	0.00	4.23- 4.43
13		AR1242-B	399.597	436.048 E3	-9.1	109	0.00	4.83- 5.03
14		AR1242-C	170.519	183.591 E3	-7.7	108	0.00	5.00- 5.20
15		AR1242-D	185.208	192.177 E3	-3.8	104	0.00	5.54- 5.74
16		AR1242-E	147.553	150.138 E3	-1.8	102	0.00	6.16- 6.36
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140992.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	6.655	7.320	E6	-10.0	99	0.02	10.95-11.02
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	18.161	18.649	E6	-2.7	97	0.00	4.05- 4.11
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A	451.561	503.329	E3	-11.5	111	0.00	5.22- 5.43
13		AR1242-B	1.009	1.132	E6	-12.2	112	0.00	5.88- 6.08
14		AR1242-C	394.580	442.820	E3	-12.2	112	0.00	6.07- 6.27
15		AR1242-D	313.664	343.795	E3	-9.6	110	0.00	6.74- 6.94
16		AR1242-E	386.834	415.044	E3	-7.3	107	0.00	7.35- 7.55
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A			----------NA----------				
37		AR1268-B			----------NA----------				
38		AR1268-C			----------NA----------				
39		AR1268-D			----------NA----------				
40		AR1268-E			----------NA----------				
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

8.10.30

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140992.D

48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	14.641	16.559 E6	-13.1	99	0.00	12.57-12.63	

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3G140974.d 3PCB5160.M Wed Apr 24 11:02:16 2024 RPT1

8.10.30

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140993.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\3G5160\3G140993.d\ECD1A.CH Vial: 25
Signal #2 : C:\msdchem\1\data\3G5160\3G140993.d\ECD2B.CH
Acq On : 23 Apr 2024 21:34 pm Operator: mahalial
Sample : icv5160-1000 (ar1268) Inst : GC3G
Misc : op53949,g3g5160,15.0,,,1,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : Wed Apr 24 07:06:11 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	7.900	8.488 E6	-7.4	103	0.00	3.44- 3.50
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A	890.739	912.978 E3	-2.5	102	0.00	9.38- 9.58
37	AR1268-B	993.606	1026.950 E3	-3.4	103	0.00	9.43- 9.63
38	AR1268-C	791.719	821.655 E3	-3.8	104	0.00	9.71- 9.91
39	AR1268-D	329.923	340.091 E3	-3.1	103	0.00	10.21-10.41
40	AR1268-E	2.566	2.697 E6	-5.1	105	0.00	10.61-10.81
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140993.D

42		AR1016-B		----------NA----------					
43		AR1016-C		----------NA----------					
44		AR1016-D		----------NA----------					
45		AR1016-E		----------NA----------					
46		AR1260-A		----------NA----------					
47		AR1260-B		----------NA----------					
48		AR1260-C		----------NA----------					
49		AR1260-D		----------NA----------					
50		AR1260-E		----------NA----------					
51	S	Decachlorobiphenyl	6.655	22.115	E6	-232.3#	300#	0.01	10.95-11.02
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	18.161	20.242	E6	-11.5	106	0.00	4.05- 4.11
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A	2.670	2.868	E6	-7.4	107	0.00	10.79-10.99
37		AR1268-B	2.588	2.752	E6	-6.3	106	0.00	10.86-11.06
38		AR1268-C	2.191	2.347	E6	-7.1	107	0.00	11.24-11.44
39		AR1268-D	883.026	950.131	E3	-7.6	108	0.00	11.63-11.83
40		AR1268-E	6.339	6.882	E6	-8.6	109	0.00	12.12-12.32
41		AR1016-A		----------NA----------					
42		AR1016-B		----------NA----------					
43		AR1016-C		----------NA----------					
44		AR1016-D		----------NA----------					
45		AR1016-E		----------NA----------					
46		AR1260-A		----------NA----------					
47		AR1260-B		----------NA----------					

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140993.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	14.641	49.455 E6	-237.8#	297#	0.00	12.57-12.63

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3G140974.d 3PCB5160.M Wed Apr 24 11:02:18 2024 RPT1

8.10.31

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140994.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\3G5160\3G140994.d\ECD1A.CH Vial: 26
Signal #2 : C:\msdchem\1\data\3G5160\3G140994.d\ECD2B.CH
Acq On : 23 Apr 2024 21:51 pm Operator: mahalial
Sample : icv5160-1000 (ar1248) Inst : GC3G
Misc : op53949,g3g5160,15.0,,,1,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : Wed Apr 24 07:06:11 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.900	7.869 E6	0.4	96	0.00	3.44- 3.50
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A	93.535	96.293 E3	-2.9	103	0.00	4.22- 4.42
18		AR1248-B	251.972	257.788 E3	-2.3	102	0.00	4.83- 5.03
19		AR1248-C	145.072	146.690 E3	-1.1	101	0.00	5.24- 5.44
20		AR1248-D	209.048	210.512 E3	-0.7	101	0.00	5.54- 5.74
21		AR1248-E	147.115	149.508 E3	-1.6	102	0.00	5.66- 5.86
22		AR1248-F	243.964	246.191 E3	-0.9	101	0.00	6.12- 6.31
23		AR1248-G	209.281	213.361 E3	-1.9	102	0.00	6.42- 6.62
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140994.D

42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				
48		AR1260-C		----------NA----------				
49		AR1260-D		----------NA----------				
50		AR1260-E		----------NA----------				
51	S	Decachlorobiphenyl	6.655	7.326 E6	-10.1	99	0.02	10.95-11.02
*****		Signal #2 *****						
1	S	Tetrachloro-m-xylene	18.161	18.699 E6	-3.0	98	0.00	4.05- 4.11
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A	222.501	231.830 E3	-4.2	104	0.00	5.22- 5.42
18		AR1248-B	645.727	670.867 E3	-3.9	104	0.00	5.88- 6.08
19		AR1248-C	376.662	392.252 E3	-4.1	104	0.00	6.35- 6.55
20		AR1248-D	507.836	532.788 E3	-4.9	105	0.00	6.74- 6.94
21		AR1248-E	490.367	515.702 E3	-5.2	105	0.00	6.92- 7.12
22		AR1248-F	697.588	732.308 E3	-5.0	105	0.00	7.35- 7.55
23		AR1248-G	684.958	721.345 E3	-5.3	105	0.00	7.68- 7.88
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				
42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				

8.10.32

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140994.D

48		AR1260-C				----------NA----------			
49		AR1260-D				----------NA----------			
50		AR1260-E				----------NA----------			
51	S	Decachlorobiphenyl	14.641	16.066	E6	-9.7	96	0.01	12.57-12.63

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3G140974.d 3PCB5160.M Wed Apr 24 11:02:20 2024 RPT1

8.10.32

8

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G3G5173-CC5160
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3G141327.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\marianaf\3G5173\
Data File : 3G141327.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08-May-24, 00:33:43
Operator : christp
Sample : cc5160-1000
Misc : op54338a,g3g5173,1000,,,1,1
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 08 13:29:58 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Fri Sep 29 10:09:35 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	S	Tetrachloro-m-xylene	7.900	9.792 E6	-23.9#	119	0.00
41		AR1016-A	132.538	153.333 E3	-15.7	119	0.00
42		AR1016-B	257.349	293.070 E3	-13.9	116	0.00
43		AR1016-C	538.119	650.413 E3	-20.9#	121	0.00
44		AR1016-D	235.528	262.404 E3	-11.4	115	0.00
45		AR1016-E	248.580	271.259 E3	-9.1	109	0.00
46		AR1260-A	465.226	572.256 E3	-23.0#	120	0.00
47		AR1260-B	288.893	343.192 E3	-18.8	115	0.00
48		AR1260-C	314.897	377.115 E3	-19.8	115	0.00
49		AR1260-D	751.304	979.671 E3	-30.4#	123	0.00
50		AR1260-E	760.628	943.174 E3	-24.0#	119	0.00
51	S	Decachlorobiphenyl	6.655	9.196 E6	-38.2#	125	0.00

Signal #2

1	S	Tetrachloro-m-xylene	18.161	22.876 E6	-26.0#	119	-0.01
41		AR1016-A	305.459	351.779 E3	-15.2	117	0.00
42		AR1016-B	601.393	698.933 E3	-16.2	117	0.00
43		AR1016-C	1.365	1.616 E6	-18.4	119	0.00
44		AR1016-D	521.521	625.580 E3	-20.0	117	0.00
45		AR1016-E	423.325	494.450 E3	-16.8	116	0.00
46		AR1260-A	0.977	1.190 E6	-21.8#	120	0.00
47		AR1260-B	800.981	1004.276 E3	-25.4#	123	0.00
48		AR1260-C	836.230	1036.119 E3	-23.9#	123	0.00
49		AR1260-D	1.966	2.640 E6	-34.3#	129	0.00
50		AR1260-E	1.899	2.558 E6	-34.7#	129	0.00
51	S	Decachlorobiphenyl	14.641	21.065 E6	-43.9#	126	0.00

Evaluate Continuing Calibration Report - Not Founds

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G3G5173-CC5160
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3G141327.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

2	AR1221-A	58.563	0.000	E3	100.0#	0# -2.87#
3	AR1221-B	87.295	0.000	E3	100.0#	0# -3.65#
4	AR1221-C	203.322	0.000	E3	100.0#	0# -3.88#
5	AR1221-D	47.135	0.000	E3	100.0#	0# -4.33#
6	AR1221-E	48.348	0.000	E3	100.0#	0# -4.93#
7	AR1232-A	142.648	0.000	E3	100.0#	0# -3.88#
8	AR1232-B	103.876	0.000	E3	100.0#	0# -4.33#
9	AR1232-C	221.142	0.000	E3	100.0#	0# -4.93#
10	AR1232-D	94.644	0.000	E3	100.0#	0# -5.10#
11	AR1232-E	93.317	0.000	E3	100.0#	0# -5.64#
12	AR1242-A	195.700	0.000	E3	100.0#	0# -4.32#
13	AR1242-B	399.597	0.000	E3	100.0#	0# -4.93#
14	AR1242-C	170.519	0.000	E3	100.0#	0# -5.10#
15	AR1242-D	185.208	0.000	E3	100.0#	0# -5.64#
16	AR1242-E	147.553	0.000	E3	100.0#	0# -6.25#
17	AR1248-A	93.535	0.000	E3	100.0#	0# -4.32#
18	AR1248-B	251.972	0.000	E3	100.0#	0# -4.93#
19	AR1248-C	145.072	0.000	E3	100.0#	0# -5.34#
20	AR1248-D	209.048	0.000	E3	100.0#	0# -5.64#
21	AR1248-E	147.115	0.000	E3	100.0#	0# -5.76#
22	AR1248-F	243.964	0.000	E3	100.0#	0# -6.21#
23	AR1248-G	209.281	0.000	E3	100.0#	0# -6.52#
24	AR1254-A	225.829	0.000	E3	100.0#	0# -6.15#
25	AR1254-B	312.276	0.000	E3	100.0#	0# -6.51#
26	AR1254-C	253.985	0.000	E3	100.0#	0# -6.89#
27	AR1254-D	435.911	0.000	E3	100.0#	0# -7.05#
28	AR1254-E	307.197	0.000	E3	100.0#	0# -7.44#
29	AR1254-F	301.898	0.000	E3	100.0#	0# -7.69#
30	AR1254-G	437.950	0.000	E3	100.0#	0# -8.08#
31	AR1262-A	346.601	0.000	E3	100.0#	0# -7.69#
32	AR1262-B	439.628	0.000	E3	100.0#	0# -8.24#
33	AR1262-C	417.854	0.000	E3	100.0#	0# -8.59#
34	AR1262-D	947.367	0.000	E3	100.0#	0# -9.02#
35	AR1262-E	1.030	0.000	E6	100.0#	0# -9.47#
36	AR1268-A	890.739	0.000	E3	100.0#	0# -9.47#
37	AR1268-B	993.606	0.000	E3	100.0#	0# -9.53#
38	AR1268-C	791.719	0.000	E3	100.0#	0# -9.80#
39	AR1268-D	329.923	0.000	E3	100.0#	0# -10.31#
40	AR1268-E	2.566	0.000	E6	100.0#	0# -10.71#

Signal #2

2	AR1221-A	109.498	0.000	E3	100.0#	0# -3.47#
3	AR1221-B	205.054	0.000	E3	100.0#	0# -4.47#
4	AR1221-C	461.480	0.000	E3	100.0#	0# -4.76#
5	AR1221-D	162.464	0.000	E3	100.0#	0# -5.41#
6	AR1221-E	115.574	0.000	E3	100.0#	0# -5.98#
7	AR1232-A	322.760	0.000	E3	100.0#	0# -4.76#
8	AR1232-B	266.552	0.000	E3	100.0#	0# -5.32#
9	AR1232-C	550.620	0.000	E3	100.0#	0# -5.98#
10	AR1232-D	218.926	0.000	E3	100.0#	0# -6.17#
11	AR1232-E	153.914	0.000	E3	100.0#	0# -6.84#
12	AR1242-A	451.561	0.000	E3	100.0#	0# -5.33#
13	AR1242-B	1.009	0.000	E6	100.0#	0# -5.98#
14	AR1242-C	394.580	0.000	E3	100.0#	0# -6.17#
15	AR1242-D	313.664	0.000	E3	100.0#	0# -6.84#
16	AR1242-E	386.834	0.000	E3	100.0#	0# -7.45#
17	AR1248-A	222.501	0.000	E3	100.0#	0# -5.32#
18	AR1248-B	645.727	0.000	E3	100.0#	0# -5.98#
19	AR1248-C	376.662	0.000	E3	100.0#	0# -6.44#

Continuing Calibration Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5173-CC5160
Lab FileID: 3G141327.D

20	AR1248-D	507.836	0.000	E3	100.0#	0# -6.84#
21	AR1248-E	490.367	0.000	E3	100.0#	0# -7.02#
22	AR1248-F	697.588	0.000	E3	100.0#	0# -7.45#
23	AR1248-G	684.958	0.000	E3	100.0#	0# -7.78#
24	AR1254-A	600.685	0.000	E3	100.0#	0# -7.44#
25	AR1254-B	673.229	0.000	E3	100.0#	0# -7.70#
26	AR1254-C	561.178	0.000	E3	100.0#	0# -8.21#
27	AR1254-D	1.057	0.000	E6	100.0#	0# -8.38#
28	AR1254-E	796.120	0.000	E3	100.0#	0# -8.69#
29	AR1254-F	412.718	0.000	E3	100.0#	0# -9.17#
30	AR1254-G	863.096	0.000	E3	100.0#	0# -9.47#
31	AR1262-A	791.419	0.000	E3	100.0#	0# -8.93#
32	AR1262-B	1.187	0.000	E6	100.0#	0# -9.59#
33	AR1262-C	1.014	0.000	E6	100.0#	0# -10.02#
34	AR1262-D	2.317	0.000	E6	100.0#	0# -10.37#
35	AR1262-E	2.664	0.000	E6	100.0#	0# -10.89#
36	AR1268-A	2.670	0.000	E6	100.0#	0# -10.89#
37	AR1268-B	2.588	0.000	E6	100.0#	0# -10.96#
38	AR1268-C	2.191	0.000	E6	100.0#	0# -11.34#
39	AR1268-D	883.026	0.000	E3	100.0#	0# -11.73#
40	AR1268-E	6.339	0.000	E6	100.0#	0# -12.21#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

3PCB5160.M Wed May 08 13:30:16 2024

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G3G5173-CC5160
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3G141351.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\marianaf\3G5173\
Data File : 3G141351.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08-May-24, 07:13:12
Operator : christp
Sample : cc5160-500
Misc : op54402a,g3g5173,1000,,,1,1
ALS Vial : 48 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 08 13:20:11 2024
Quant Method : C:\msdchem\1\data\marianaf\3G5173\3PCB5160.M
Quant Title :
QLast Update : Tue May 07 06:14:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	S	Tetrachloro-m-xylene	7.900	9.476 E6	-19.9	109	0.00
41		AR1016-A	132.538	158.057 E3	-19.3	109	0.00
42		AR1016-B	257.349	303.661 E3	-18.0	109	0.00
43		AR1016-C	538.119	630.972 E3	-17.3	109	0.00
44		AR1016-D	235.528	264.672 E3	-12.4	107	0.00
45		AR1016-E	248.580	278.221 E3	-11.9	103	0.00
46		AR1260-A	465.226	534.428 E3	-14.9	108	0.00
47		AR1260-B	288.893	325.874 E3	-12.8	105	0.00
48		AR1260-C	314.897	360.262 E3	-14.4	106	0.00
49		AR1260-D	751.304	873.065 E3	-16.2	105	0.00
50		AR1260-E	760.628	871.947 E3	-14.6	107	0.00
51	S	Decachlorobiphenyl	6.655	8.378 E6	-25.9#	108	0.00

Signal #2

1	S	Tetrachloro-m-xylene	18.161	22.118 E6	-21.8#	109	0.00
41		AR1016-A	305.459	363.678 E3	-19.1	108	0.00
42		AR1016-B	601.393	718.796 E3	-19.5	108	0.00
43		AR1016-C	1.365	1.620 E6	-18.7	109	0.00
44		AR1016-D	521.521	632.985 E3	-21.4#	110	0.00
45		AR1016-E	423.325	491.808 E3	-16.2	107	0.00
46		AR1260-A	0.977	1.149 E6	-17.6	109	0.00
47		AR1260-B	800.981	949.664 E3	-18.6	110	0.00
48		AR1260-C	836.230	957.387 E3	-14.5	107	0.00
49		AR1260-D	1.966	2.340 E6	-19.0	110	0.00
50		AR1260-E	1.899	2.271 E6	-19.6	108	0.00
51	S	Decachlorobiphenyl	14.641	18.314 E6	-25.1#	104	0.00

Evaluate Continuing Calibration Report - Not Founds

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G3G5173-CC5160
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3G141351.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

2	AR1221-A	58.563	0.000	E3	100.0#	0# -2.87#
3	AR1221-B	87.295	0.000	E3	100.0#	0# -3.65#
4	AR1221-C	203.322	0.000	E3	100.0#	0# -3.88#
5	AR1221-D	47.135	0.000	E3	100.0#	0# -4.33#
6	AR1221-E	48.348	0.000	E3	100.0#	0# -4.93#
7	AR1232-A	142.648	0.000	E3	100.0#	0# -3.88#
8	AR1232-B	103.876	0.000	E3	100.0#	0# -4.33#
9	AR1232-C	221.142	0.000	E3	100.0#	0# -4.93#
10	AR1232-D	94.644	0.000	E3	100.0#	0# -5.10#
11	AR1232-E	93.317	0.000	E3	100.0#	0# -5.64#
12	AR1242-A	195.700	0.000	E3	100.0#	0# -4.32#
13	AR1242-B	399.597	0.000	E3	100.0#	0# -4.93#
14	AR1242-C	170.519	0.000	E3	100.0#	0# -5.10#
15	AR1242-D	185.208	0.000	E3	100.0#	0# -5.64#
16	AR1242-E	147.553	0.000	E3	100.0#	0# -6.25#
17	AR1248-A	93.535	0.000	E3	100.0#	0# -4.32#
18	AR1248-B	251.972	0.000	E3	100.0#	0# -4.93#
19	AR1248-C	145.072	0.000	E3	100.0#	0# -5.34#
20	AR1248-D	209.048	0.000	E3	100.0#	0# -5.64#
21	AR1248-E	147.115	0.000	E3	100.0#	0# -5.76#
22	AR1248-F	243.964	0.000	E3	100.0#	0# -6.21#
23	AR1248-G	209.281	0.000	E3	100.0#	0# -6.52#
24	AR1254-A	225.829	0.000	E3	100.0#	0# -6.15#
25	AR1254-B	312.276	0.000	E3	100.0#	0# -6.51#
26	AR1254-C	253.985	0.000	E3	100.0#	0# -6.89#
27	AR1254-D	435.911	0.000	E3	100.0#	0# -7.05#
28	AR1254-E	307.197	0.000	E3	100.0#	0# -7.44#
29	AR1254-F	301.898	0.000	E3	100.0#	0# -7.69#
30	AR1254-G	437.950	0.000	E3	100.0#	0# -8.08#
31	AR1262-A	346.601	0.000	E3	100.0#	0# -7.69#
32	AR1262-B	439.628	0.000	E3	100.0#	0# -8.24#
33	AR1262-C	417.854	0.000	E3	100.0#	0# -8.59#
34	AR1262-D	947.367	0.000	E3	100.0#	0# -9.02#
35	AR1262-E	1.030	0.000	E6	100.0#	0# -9.47#
36	AR1268-A	890.739	0.000	E3	100.0#	0# -9.47#
37	AR1268-B	993.606	0.000	E3	100.0#	0# -9.53#
38	AR1268-C	791.719	0.000	E3	100.0#	0# -9.80#
39	AR1268-D	329.923	0.000	E3	100.0#	0# -10.31#
40	AR1268-E	2.566	0.000	E6	100.0#	0# -10.71#

Signal #2

2	AR1221-A	109.498	0.000	E3	100.0#	0# -3.47#
3	AR1221-B	205.054	0.000	E3	100.0#	0# -4.47#
4	AR1221-C	461.480	0.000	E3	100.0#	0# -4.76#
5	AR1221-D	162.464	0.000	E3	100.0#	0# -5.41#
6	AR1221-E	115.574	0.000	E3	100.0#	0# -5.98#
7	AR1232-A	322.760	0.000	E3	100.0#	0# -4.76#
8	AR1232-B	266.552	0.000	E3	100.0#	0# -5.32#
9	AR1232-C	550.620	0.000	E3	100.0#	0# -5.98#
10	AR1232-D	218.926	0.000	E3	100.0#	0# -6.17#
11	AR1232-E	153.914	0.000	E3	100.0#	0# -6.84#
12	AR1242-A	451.561	0.000	E3	100.0#	0# -5.33#
13	AR1242-B	1.009	0.000	E6	100.0#	0# -5.98#
14	AR1242-C	394.580	0.000	E3	100.0#	0# -6.17#
15	AR1242-D	313.664	0.000	E3	100.0#	0# -6.84#
16	AR1242-E	386.834	0.000	E3	100.0#	0# -7.45#
17	AR1248-A	222.501	0.000	E3	100.0#	0# -5.32#
18	AR1248-B	645.727	0.000	E3	100.0#	0# -5.98#
19	AR1248-C	376.662	0.000	E3	100.0#	0# -6.44#

Continuing Calibration Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5173-CC5160
Lab FileID: 3G141351.D

20	AR1248-D	507.836	0.000	E3	100.0#	0# -6.84#
21	AR1248-E	490.367	0.000	E3	100.0#	0# -7.02#
22	AR1248-F	697.588	0.000	E3	100.0#	0# -7.45#
23	AR1248-G	684.958	0.000	E3	100.0#	0# -7.78#
24	AR1254-A	600.685	0.000	E3	100.0#	0# -7.44#
25	AR1254-B	673.229	0.000	E3	100.0#	0# -7.70#
26	AR1254-C	561.178	0.000	E3	100.0#	0# -8.21#
27	AR1254-D	1.057	0.000	E6	100.0#	0# -8.38#
28	AR1254-E	796.120	0.000	E3	100.0#	0# -8.69#
29	AR1254-F	412.718	0.000	E3	100.0#	0# -9.17#
30	AR1254-G	863.096	0.000	E3	100.0#	0# -9.47#
31	AR1262-A	791.419	0.000	E3	100.0#	0# -8.93#
32	AR1262-B	1.187	0.000	E6	100.0#	0# -9.59#
33	AR1262-C	1.014	0.000	E6	100.0#	0# -10.02#
34	AR1262-D	2.317	0.000	E6	100.0#	0# -10.37#
35	AR1262-E	2.664	0.000	E6	100.0#	0# -10.89#
36	AR1268-A	2.670	0.000	E6	100.0#	0# -10.89#
37	AR1268-B	2.588	0.000	E6	100.0#	0# -10.96#
38	AR1268-C	2.191	0.000	E6	100.0#	0# -11.34#
39	AR1268-D	883.026	0.000	E3	100.0#	0# -11.73#
40	AR1268-E	6.339	0.000	E6	100.0#	0# -12.21#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

3PCB5160.M Wed May 08 13:20:54 2024

8.10.34

8

Initial Calibration Summary

Job Number: JD87833 **Sample:** G8G2430-ICC2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G55359.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Response Factor Report GC8G

Method : C:\msdchem\1\methods\8PSTLVI2430.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 03 10:35:10 2024
Response via : Initial Calibration

Calibration Files
2 =8g55356.d 5 =8g55357.d 10 =8g55358.d 25 =8g55359.d
50 =8g55360.d 100 =8g55362.d 75 =8g55361.d =

Compound	2	5	10	25	50	100	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD								
2) Tetrachloro-	1.227	1.053	0.996	0.984	0.999	1.022	1.013	1.042	8.13
3) hexachlorobe	2.126	1.667	1.695	1.610	1.595	1.559	1.540	1.684	12.00
4) alpha-BHC	0.988	0.939	1.077	1.311	1.487	1.365	1.442	1.230	18.25
5) gamma-BHC	1.455	1.366	1.347	1.396	1.454	1.500	1.470	1.427	4.02
6) Heptachlor	1.769	1.433	1.352	1.344	1.341	1.341	1.334	1.416	11.25
7) beta-BHC	0.846	0.696	0.645	0.644	0.637	0.652	0.639	0.680	11.19
8) delta-BHC	1.320	1.129	1.174	1.211	1.283	1.345	1.338	1.257	6.84
9) Aldrin	1.478	1.245	1.231	1.233	1.266	1.297	1.288	1.291	6.68
10) alachlor		0.230	0.206	0.186	0.173	0.157	0.162	0.186	14.93
11) Heptachlor E	1.216	1.174	1.134	1.082	1.068	1.047	1.058	1.111	5.81
12) gamma-Chlord	1.512	1.340	1.268	1.268	1.277	1.260	1.262	1.312	7.04
13) alpha-Chlord	1.445	1.263	1.200	1.165	1.193	1.178	1.202	1.235	7.89
14) Endosulfan I	1.397	1.256	1.178	1.133	1.161	1.108	1.136	1.196	8.43
15) 4,4'-DDE	1.359	1.169	1.132	1.127	1.149	1.180	1.163	1.183	6.76
16) Dieldrin	1.465	1.358	1.267	1.211	1.226	1.219	1.213	1.280	7.58
17) Endrin	1.282	1.178	1.124	1.094	1.102	1.120	1.098	1.142	5.93
18) 4,4'-DDD	0.740	0.838	0.889	0.861	0.926	0.864	0.942	0.866	7.71
19) Endosulfan I	1.237	1.152	1.094	1.049	1.056	1.046	1.053	1.098	6.55
20) 4,4'-DDT	1.314	0.814	0.955	0.929	0.927	0.973	0.957	0.981	15.89
21) Endrin Aldeh	1.503	1.023	0.962	0.834	0.784	0.757	0.756	0.945	28.22
----- Quadratic regression ----- Coefficient = 0.9985									
Response Ratio = 0.02829 + 0.78671 *A + -0.02603 *A^2									
22) Endosulfan S	1.106	1.081	0.999	0.955	0.945	0.907	0.914	0.987	8.04
23) Methoxychlor	0.590	0.634	0.582	0.533	0.544	0.513	0.509	0.558	8.21
24) Mirex	1.238	1.066	0.967	0.900	0.842	0.804	0.813	0.947	16.72
25) Endrin Keton	1.295	1.228	1.175	1.140	1.144	1.103	1.114	1.171	5.85
26) Decachlorobi		1.353	1.287	1.098	1.051	0.953	1.003	1.124	14.26
27) I 1-bromo-2-nitrobenzen	ISTD								
28) Toxaphene{A}				0.006				0.006	0.00
29) Toxaphene{B}				0.010				0.010	0.00
30) Toxaphene{C}				0.011				0.011	0.00
31) Toxaphene{D}				0.012				0.012	0.00
32) Toxaphene{E}				0.026				0.026	0.00
33) I 1-bromo-2-nitrobenzen	ISTD								
34) Chlordane {A				0.067				0.067	0.00
35) Chlordane {B				0.045				0.045	0.00
36) Chlordane {C				0.147				0.147	0.00
37) Chlordane {D				0.230				0.230	0.00
38) Chlordane {E				0.033				0.033	0.00

Signal #2

Initial Calibration Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G8G2430-ICC2430
Lab FileID: 8G55359.D

1)	I 1-bromo-2-nitrobenzen	----------ISTD----------								
2)	Tetrachloro-	1.737	1.538	1.467	1.416	1.448	1.330	1.365	1.471	9.21
3)	hexachlorobe	1.823	1.709	1.612	1.514	1.459	1.432	1.461	1.573	9.42
4)	alpha-BHC	2.247	2.152	2.107	2.052	2.034	2.023	2.058	2.096	3.83
5)	gamma-BHC	1.964	1.899	1.850	1.816	1.802	1.769	1.806	1.844	3.64
6)	Heptachlor	1.785	1.684	1.637	1.556	1.567	1.464	1.546	1.606	6.57
7)	beta-BHC	0.981	0.895	0.837	0.830	0.814	0.789	0.846	0.856	7.48
8)	delta-BHC	1.755	1.647	1.611	1.492	1.451	1.412	1.463	1.548	8.13
9)	Aldrin	1.993	1.846	1.772	1.681	1.623	1.535	1.596	1.721	9.30
10)	alachlor		0.359	0.294	0.246	0.222	0.196	0.206	0.254	24.55
	----- Quadratic regression ----- Coefficient = 0.9999									
	Response Ratio = 0.01307 + 0.23104 *A + -0.02164 *A^2									
11)	Heptachlor E	1.811	1.699	1.614	1.544	1.513	1.448	1.494	1.589	8.09
12)	gamma-Chlord	1.777	1.631	1.562	1.578	1.561	1.534	1.566	1.601	5.17
13)	alpha-Chlord	1.716	1.586	1.502	1.430	1.384	1.341	1.385	1.478	9.06
14)	Endosulfan I	1.627	1.635	1.491	1.391	1.362	1.237	1.354	1.442	10.30
15)	4,4'-DDE	1.746	1.587	1.526	1.475	1.451	1.428	1.453	1.524	7.34
16)	Dieldrin	1.893	1.700	1.620	1.564	1.549	1.508	1.544	1.625	8.23
17)	Endrin	1.461	1.377	1.283	1.250	1.196	1.138	1.197	1.272	8.90
18)	4,4'-DDD	1.428	1.321	1.321	1.244	1.200	1.140	1.186	1.263	7.88
19)	Endosulfan I	1.507	1.386	1.371	1.304	1.265	1.202	1.265	1.328	7.62
20)	4,4'-DDT	1.101	0.636	0.923	0.920	0.884	0.935	0.995	0.913	15.50
21)	Endrin Aldeh	1.105	0.973	0.976	0.928	0.886	0.859	0.901	0.947	8.68
22)	Endosulfan S	1.396	1.283	1.212	1.159	1.132	1.093	1.122	1.200	8.96
23)	Methoxychlor	0.286	0.415	0.422	0.424	0.438	0.416	0.453	0.408	13.59
24)	Mirex	1.206	1.066	0.977	0.906	0.878	0.859	0.881	0.967	13.20
25)	Endrin Keton	1.412	1.350	1.292	1.252	1.233	1.209	1.239	1.284	5.69
26)	Decachlorobi		0.811	0.749	0.678	0.664	0.612	0.667	0.697	10.19
27)	I 1-bromo-2-nitrobenzen	----------ISTD----------								
28)	Toxaphene{A}					0.009			0.009	0.00
29)	Toxaphene{B}					0.032			0.032	0.00
30)	Toxaphene{C}					0.008			0.008	0.00
31)	Toxaphene{D}					0.023			0.023	0.00
32)	Toxaphene{E}					0.025			0.025	0.00
33)	I 1-bromo-2-nitrobenzen	----------ISTD----------								
34)	Chlordane {A					0.089			0.089	0.00
35)	Chlordane {B					0.055			0.055	0.00
36)	Chlordane {C					0.185			0.185	0.00
37)	Chlordane {D					0.302			0.302	0.00
38)	Chlordane {E					0.042			0.042	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

8PSTLVI2430.M Wed Apr 03 17:08:09 2024

8.10.35

8

Initial Calibration Verification

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G8G2430-ICV2430
Lab FileID: 8G55365.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\DATA\G8G2430\8g55365.d\ECD1A.ch Vial: 41
Signal #2 : C:\msdchem\1\DATA\G8G2430\8g55365.d\ECD2B.ch
Acq On : 3 Apr 2024 9:13 am Operator: rebeccak
Sample : icv2430-2.5 (pest mix) Inst : GC8G
Misc : op53462,g8g2430,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\METHODS\8PSTLVI2430a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 03 10:35:10 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	112	0.00	3.96- 4.96
2	SAB	Tetrachloro-m-xylene	1.042	0.983	5.7	112	0.00	5.05- 5.11
3		hexachlorobenzene	1.684	1.692	-0.5	118	0.00	5.37- 5.43
4	A	alpha-BHC	1.230	1.429	-16.2	122	0.00	5.50- 5.56
5	MA	gamma-BHC	1.427	1.294	9.3	104	0.00	5.78- 5.84
6	MA	Heptachlor	1.416	1.186	16.2	99	0.00	6.24- 6.30
7	B	beta-BHC	0.680	0.581	14.6	101	0.01	5.87- 5.93
8	B	delta-BHC	1.257	1.208	3.9	112	0.01	6.04- 6.10
9	MB	Aldrin	1.291	1.137	11.9	103	0.00	6.55- 6.61
10		alachlor	0.186	0.167	10.2	100	0.00	6.70- 6.76
11	B	Heptachlor Epoxide	1.111	0.991	10.8	103	0.00	7.22- 7.28
12	B	gamma-Chlordane	1.312	1.118	14.8	99	0.00	7.37- 7.43
13	B	alpha-Chlordane	1.235	1.096	11.3	105	0.00	7.53- 7.59
14	A	Endosulfan I	1.196	1.057	11.6	105	0.00	7.69- 7.75
15	B	4,4'-DDE	1.183	1.040	12.1	103	0.00	7.65- 7.71
16	MA	Dieldrin	1.280	1.122	12.3	104	0.00	8.00- 8.06
17	MA	Endrin	1.142	1.034	9.5	106	0.00	8.30- 8.36
18	A	4,4'-DDD	0.866	0.954	-10.2	124	0.00	8.43- 8.49
19	B	Endosulfan II	1.098	1.053	4.1	113	0.00	8.61- 8.67
20	MA	4,4'-DDT	0.981	0.812	17.2	98	0.00	8.83- 8.88
		---------- True	Calc.	% Drift	----------			
21	B	Endrin Aldehyde	2.500	2.602	-4.1	116	0.00	9.20- 9.26
		---------- AvgRF	CCRF	% Dev	----------			
22	B	Endosulfan Sulfate	0.987	0.929	5.9	109	0.00	9.85- 9.91
23	A	Methoxychlor	0.558	0.507	9.1	107	0.00	9.59- 9.65
24		Mirex	0.947	0.966	-2.0	120	0.00	9.71- 9.77
25	B	Endrin Ketone	1.171	1.096	6.4	108	0.00	10.27-10.33
26	SA	Decachlorobiphenyl	1.124	1.080	3.9	110	0.00	12.04-12.10
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	112	0.00	3.96- 4.96
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	112	0.00	3.96- 4.96
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					

Initial Calibration Verification

Job Number: JD87833 **Sample:** G8G2430-ICV2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G55365.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

36		Chlordane {C}			----------NA----------			
37		Chlordane {D}			----------NA----------			
38		Chlordane {E}			----------NA----------			
*****		Signal #2 *****						
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	4.43- 5.43
2	SAB	Tetrachloro-m-xylene	1.471	1.449	1.5	110	0.00	5.73- 5.79
3		hexachlorobenzene	1.573	1.693	-7.6	120	0.00	6.22- 6.28
4	A	alpha-BHC	2.096	1.977	5.7	104	0.00	6.38- 6.44
5	MA	gamma-BHC	1.844	1.765	4.3	105	0.00	6.79- 6.85
6	MA	Heptachlor	1.606	1.527	4.9	106	0.00	7.35- 7.41
7	B	beta-BHC	0.856	0.868	-1.4	113	0.00	6.89- 6.95
8	B	delta-BHC	1.548	1.483	4.2	107	0.00	7.26- 7.32
9	MB	Aldrin	1.721	1.636	4.9	105	0.00	7.79- 7.85
			True	Calc.	% Drift			
10		alachlor	2.500	2.414	3.4	105	0.00	7.61- 7.67
			AvgRF	CCRF	% Dev			
11	B	Heptachlor Epoxide	1.589	1.488	6.4	104	0.00	8.59- 8.65
12	B	gamma-Chlordane	1.601	1.541	3.7	105	0.00	8.87- 8.93
13	B	alpha-Chlordane	1.478	1.377	6.8	104	0.00	9.09- 9.15
14	A	Endosulfan I	1.442	1.377	4.5	106	0.00	9.18- 9.24
15	B	4,4'-DDE	1.524	1.433	6.0	104	0.00	9.36- 9.42
16	MA	Dieldrin	1.625	1.522	6.3	105	0.00	9.61- 9.67
17	MA	Endrin	1.272	1.207	5.1	104	0.00	10.10-10.16
18	A	4,4'-DDD	1.263	1.205	4.6	104	0.00	10.29-10.35
19	B	Endosulfan II	1.328	1.284	3.3	106	0.00	10.45-10.51
20	MA	4,4'-DDT	0.913	0.826	9.5	97	0.00	10.81-10.87
21	B	Endrin Aldehyde	0.947	0.986	-4.1	114	0.00	11.01-11.07
22	B	Endosulfan Sulfate	1.200	1.133	5.6	105	0.00	11.47-11.53
23	A	Methoxychlor	0.408	0.418	-2.5	106	0.00	12.04-12.10
24		Mirex	0.967	1.017	-5.2	121	0.00	12.35-12.41
25	B	Endrin Ketone	1.284	1.247	2.9	107	0.00	12.42-12.48
26	SA	Decachlorobiphenyl	0.697	0.711	-2.0	113	0.00	14.22-14.28
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	4.43- 5.43
28	L8	Toxaphene{A}			----------NA----------			
29	L8	Toxaphene{B}			----------NA----------			
30	L8	Toxaphene{C}			----------NA----------			
31	L8	Toxaphene{D}			----------NA----------			
32	L8	Toxaphene{E}			----------NA----------			
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	4.43- 5.43
34		Chlordane {A}			----------NA----------			
35		Chlordane {B}			----------NA----------			
36		Chlordane {C}			----------NA----------			
37		Chlordane {D}			----------NA----------			
38		Chlordane {E}			----------NA----------			

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8g55359.d 8PSTLVI2430a.M Wed Apr 03 10:39:16 2024

8.10.36

8

Initial Calibration Verification

Job Number: JD87833 **Sample:** G8G2430-ICV2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G55366.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\DATA\G8G2430\8g55366.d\ECD1A.ch Vial: 42
Signal #2 : C:\msdchem\1\DATA\G8G2430\8g55366.d\ECD2B.ch
Acq On : 3 Apr 2024 9:35 am Operator: rebeccak
Sample : icv2430-50 (chlordane) Inst : GC8G
Misc : op53462,g8g2430,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\METHODS\8PSTLVI2430a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 03 10:35:10 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	112	0.00	3.96- 4.96
2	SAB	Tetrachloro-m-xylene	1.042	0.966	7.3	108	0.00	5.04- 5.10
3		hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
		---------- True	Calc.	% Drift ----------				
21	B	Endrin Aldehyde		----------NA----------				
		---------- AvgRF	CCRF	% Dev ----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	1.124	1.011	10.1	107	0.00	12.04-12.10
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	3.96- 4.96
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	3.96- 4.96
34		Chlordane {A}	0.067	0.061	9.0	90	0.00	6.17- 6.37
35		Chlordane {B}	0.045	0.041	8.9	90	0.00	6.62- 6.82

8.10.37

8

Initial Calibration Verification

Job Number: JD87833 **Sample:** G8G2430-ICV2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G55366.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

36		Chlordane {C}	0.147	0.134	8.8	89	0.00	7.30- 7.50
37		Chlordane {D}	0.230	0.212	7.8	91	0.00	7.45- 7.65
38		Chlordane {E}	0.033	0.032	3.0	96	0.00	8.44- 8.64
*****		Signal #2 *****						
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	107	0.00	4.43- 5.43
2	SAB	Tetrachloro-m-xylene	1.471	1.317	10.5	97	0.00	5.72- 5.78
3		hexachlorobenzene	----------NA----------					
4	A	alpha-BHC	----------NA----------					
5	MA	gamma-BHC	----------NA----------					
6	MA	Heptachlor	----------NA----------					
7	B	beta-BHC	----------NA----------					
8	B	delta-BHC	----------NA----------					
9	MB	Aldrin	----------NA----------					
		---------- True Calc. % Drift ----------						
10		alachlor	----------NA----------					
		---------- AvgRF CCRF % Dev ----------						
11	B	Heptachlor Epoxide	----------NA----------					
12	B	gamma-Chlordane	----------NA----------					
13	B	alpha-Chlordane	----------NA----------					
14	A	Endosulfan I	----------NA----------					
15	B	4,4'-DDE	----------NA----------					
16	MA	Dieldrin	----------NA----------					
17	MA	Endrin	----------NA----------					
18	A	4,4'-DDD	----------NA----------					
19	B	Endosulfan II	----------NA----------					
20	MA	4,4'-DDT	----------NA----------					
21	B	Endrin Aldehyde	----------NA----------					
22	B	Endosulfan Sulfate	----------NA----------					
23	A	Methoxychlor	----------NA----------					
24		Mirex	----------NA----------					
25	B	Endrin Ketone	----------NA----------					
26	SA	Decachlorobiphenyl	0.697	0.681	2.3	109	0.00	14.21-14.27
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	102	0.00	4.43- 5.43
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	4.43- 5.43
34		Chlordane {A}	0.089	0.077	13.5	86	0.00	7.28- 7.48
35		Chlordane {B}	0.055	0.049	10.9	89	0.00	7.91- 8.11
36		Chlordane {C}	0.185	0.166	10.3	90	0.00	8.80- 9.00
37		Chlordane {D}	0.302	0.273	9.6	91	0.00	9.02- 9.22
38		Chlordane {E}	0.042	0.038	9.5	92	0.00	10.45-10.65

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8g55364.d 8PSTLVI2430a.M Wed Apr 03 10:39:37 2024

8.10.37

8

Initial Calibration Verification

Job Number: JD87833 **Sample:** G8G2430-ICV2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G55367.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\DATA\G8G2430\8g55367.d\ECD1A.ch Vial: 43
Signal #2 : C:\msdchem\1\DATA\G8G2430\8g55367.d\ECD2B.ch
Acq On : 3 Apr 2024 9:57 am Operator: rebeccak
Sample : icv2430-50 (toxaphene) Inst : GC8G
Misc : op53462,g8g2430,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\METHODS\8PSTLVI2430a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 03 10:35:10 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	113	0.00	3.96- 4.96
2	SAB	Tetrachloro-m-xylene	1.042	1.014	2.7	115	0.00	5.04- 5.10
3		hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
		---------- True	Calc.	% Drift ----------				
21	B	Endrin Aldehyde		----------NA----------				
		---------- AvgRF	CCRF	% Dev ----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	1.124	1.023	9.0	110	0.00	12.04-12.10
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	3.96- 4.96
28	L8	Toxaphene{A}	0.006	0.006	0.0	99	0.00	7.42- 7.62
29	L8	Toxaphene{B}	0.010	0.010	0.0	102	0.00	8.05- 8.25
30	L8	Toxaphene{C}	0.011	0.016	-45.5#	149	0.00	9.01- 9.21
31	L8	Toxaphene{D}	0.012	0.014	-16.7	121	0.00	9.32- 9.52
32	L8	Toxaphene{E}	0.026	0.023	11.5	94	0.00	9.62- 9.82
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	3.96- 4.96
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				

Initial Calibration Verification

Job Number: JD87833 **Sample:** G8G2430-ICV2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G55367.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

36		Chlordane {C}			----------NA----------			
37		Chlordane {D}			----------NA----------			
38		Chlordane {E}			----------NA----------			
*****		Signal #2 *****						
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	4.43- 5.43
2	SAB	Tetrachloro-m-xylene	1.471	1.470	0.1	106	0.00	5.73- 5.79
3		hexachlorobenzene			----------NA----------			
4	A	alpha-BHC			----------NA----------			
5	MA	gamma-BHC			----------NA----------			
6	MA	Heptachlor			----------NA----------			
7	B	beta-BHC			----------NA----------			
8	B	delta-BHC			----------NA----------			
9	MB	Aldrin			----------NA----------			
		---------- True		Calc.	% Drift ----------			
10		alachlor			----------NA----------			
		---------- AvgRF		CCRF	% Dev ----------			
11	B	Heptachlor Epoxide			----------NA----------			
12	B	gamma-Chlordane			----------NA----------			
13	B	alpha-Chlordane			----------NA----------			
14	A	Endosulfan I			----------NA----------			
15	B	4,4'-DDE			----------NA----------			
16	MA	Dieldrin			----------NA----------			
17	MA	Endrin			----------NA----------			
18	A	4,4'-DDD			----------NA----------			
19	B	Endosulfan II			----------NA----------			
20	MA	4,4'-DDT			----------NA----------			
21	B	Endrin Aldehyde			----------NA----------			
22	B	Endosulfan Sulfate			----------NA----------			
23	A	Methoxychlor			----------NA----------			
24		Mirex			----------NA----------			
25	B	Endrin Ketone			----------NA----------			
26	SA	Decachlorobiphenyl	0.697	0.711	-2.0	112	0.00	14.21-14.27
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	4.43- 5.43
28	L8	Toxaphene{A}	0.009	0.010	-11.1	123	0.00	9.68- 9.88
29	L8	Toxaphene{B}	0.032	0.047	-46.9#	147	0.00	10.51-10.71
30	L8	Toxaphene{C}	0.008	0.007	12.5	83	0.00	10.64-10.84
31	L8	Toxaphene{D}	0.023	0.025	-8.7	108	0.00	10.95-11.15
32	L8	Toxaphene{E}	0.025	0.026	-4.0	105	0.00	11.83-12.03
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	4.43- 5.43
34		Chlordane {A}			----------NA----------			
35		Chlordane {B}			----------NA----------			
36		Chlordane {C}			----------NA----------			
37		Chlordane {D}			----------NA----------			
38		Chlordane {E}			----------NA----------			

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8g55364.d 8PSTLVI2430a.M Wed Apr 03 10:39:39 2024

8.10.38

8

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G8G2470-CC2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G56335.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\na...70\8g56335.d\ECD1A.ch Vial: 2
Signal #2 : C:\msdchem\1\data\nazary...8G2470\8g56335.d\ECD2B.ch
Acq On : 9 May 2024 12:37 am Operator: christp
Sample : cc2430-2.5 Inst : GC8G
Misc : op54425,g8g2470,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...0\8PSTLVI2430a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Thu May 09 12:16:42 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	3.96- 4.96
2	SAB	Tetrachloro-m-xylene	1.042	1.109	-6.4	110	0.00	5.04- 5.10
3		hexachlorobenzene	1.684	1.679	0.3	102	0.00	5.37- 5.43
4	A	alpha-BHC	1.230	1.795	-45.9#	134	0.00	5.50- 5.56
5	MA	gamma-BHC	1.427	1.438	-0.8	101	0.00	5.78- 5.84
6	MA	Heptachlor	1.416	1.358	4.1	99	0.00	6.24- 6.30
7	B	beta-BHC	0.680	0.688	-1.2	104	0.00	5.88- 5.94
8	B	delta-BHC	1.257	1.308	-4.1	105	0.00	6.05- 6.11
9	MB	Aldrin	1.291	1.317	-2.0	104	0.00	6.55- 6.61
10		alachlor	0.186	0.215	-15.6	113	0.00	6.70- 6.76
11	B	Heptachlor Epoxide	1.111	1.210	-8.9	109	0.00	7.21- 7.27
12	B	gamma-Chlordane	1.312	1.350	-2.9	104	0.00	7.37- 7.43
13	B	alpha-Chlordane	1.235	1.302	-5.4	109	0.00	7.52- 7.58
14	A	Endosulfan I	1.196	1.473	-23.2#	127	0.00	7.68- 7.74
15	B	4,4'-DDE	1.183	1.034	12.6	90	0.00	7.65- 7.71
16	MA	Dieldrin	1.280	1.286	-0.5	104	0.00	7.99- 8.05
17	MA	Endrin	1.142	1.152	-0.9	103	0.00	8.29- 8.35
18	A	4,4'-DDD	0.866	1.028	-18.7	117	0.00	8.43- 8.49
19	B	Endosulfan II	1.098	1.142	-4.0	106	0.00	8.60- 8.66
20	MA	4,4'-DDT	0.981	0.690	29.7#	73	0.00	8.82- 8.88
		---------- True	Calc.	% Drift	----------			
21	B	Endrin Aldehyde	2.500	2.414	3.4	94	0.00	9.19- 9.25
		---------- AvgRF	CCRF	% Dev	----------			
22	B	Endosulfan Sulfate	0.987	1.012	-2.5	104	0.00	9.84- 9.90
23	A	Methoxychlor	0.558	0.386	30.8#	71	0.00	9.59- 9.65
24		Mirex	0.947	0.982	-3.7	107	0.00	9.69- 9.75
25	B	Endrin Ketone	1.171	1.127	3.8	97	0.00	10.25-10.31
26	SA	Decachlorobiphenyl	1.124	1.058	5.9	94	0.00	12.02-12.08
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	3.96- 4.96
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	3.96- 4.96
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G8G2470-CC2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G56335.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

36		Chlordane {C}			----------NA----------				
37		Chlordane {D}			----------NA----------				
38		Chlordane {E}			----------NA----------				
*****		Signal #2 *****							
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	4.41- 5.41	
2	SAB	Tetrachloro-m-xylene	1.471	1.425	3.1	107	0.00	5.70- 5.76	
3		hexachlorobenzene	1.573	1.450	7.8	102	0.00	6.20- 6.26	
4	A	alpha-BHC	2.096	2.087	0.4	108	0.00	6.35- 6.41	
5	MA	gamma-BHC	1.844	1.747	5.3	102	0.00	6.76- 6.82	
6	MA	Heptachlor	1.606	1.669	-3.9	114	0.00	7.31- 7.37	
7	B	beta-BHC	0.856	0.888	-3.7	114	0.00	6.86- 6.92	
8	B	delta-BHC	1.548	1.477	4.6	105	0.00	7.24- 7.30	
9	MB	Aldrin	1.721	1.597	7.2	101	0.00	7.74- 7.80	
		----------	True	Calc.	% Drift		----------		
10		alachlor	2.500	2.304	7.8	99	0.00	7.57- 7.63	
		----------	AvgRF	CCRF	% Dev		----------		
11	B	Heptachlor Epoxide	1.589	1.510	5.0	104	0.00	8.54- 8.60	
12	B	gamma-Chlordane	1.601	1.606	-0.3	108	0.00	8.82- 8.88	
13	B	alpha-Chlordane	1.478	1.436	2.8	107	0.00	9.04- 9.10	
14	A	Endosulfan I	1.442	1.458	-1.1	111	0.00	9.13- 9.19	
15	B	4,4'-DDE	1.524	1.477	3.1	106	0.00	9.30- 9.36	
16	MA	Dieldrin	1.625	1.589	2.2	108	0.00	9.55- 9.61	
17	MA	Endrin	1.272	1.292	-1.6	110	0.00	10.04-10.10	
18	A	4,4'-DDD	1.263	1.328	-5.1	113	0.00	10.23-10.29	
19	B	Endosulfan II	1.328	1.373	-3.4	112	0.00	10.38-10.44	
20	MA	4,4'-DDT	0.913	0.758	17.0	87	0.00	10.75-10.81	
21	B	Endrin Aldehyde	0.947	0.911	3.8	104	0.00	10.94-11.00	
22	B	Endosulfan Sulfate	1.200	1.076	10.3	99	0.00	11.40-11.46	
23	A	Methoxychlor	0.408	0.353	13.5	88	0.00	11.97-12.03	
24		Mirex	0.967	0.891	7.9	104	0.00	12.27-12.33	
25	B	Endrin Ketone	1.284	1.180	8.1	100	0.00	12.34-12.40	
26	SA	Decachlorobiphenyl	0.697	0.647	7.2	101	0.00	14.16-14.22	
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	4.41- 5.41	
28	L8	Toxaphene{A}			----------NA----------				
29	L8	Toxaphene{B}			----------NA----------				
30	L8	Toxaphene{C}			----------NA----------				
31	L8	Toxaphene{D}			----------NA----------				
32	L8	Toxaphene{E}			----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	4.41- 5.41	
34		Chlordane {A}			----------NA----------				
35		Chlordane {B}			----------NA----------				
36		Chlordane {C}			----------NA----------				
37		Chlordane {D}			----------NA----------				
38		Chlordane {E}			----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8g56335.d 8PSTLVI2430a.M Thu May 09 12:27:53 2024

8.10.39

8

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G8G2471-CC2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G56374.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\G8G2471\8g56374.d\ECD1A.ch Vial: 4
Signal #2 : C:\msdchem\1\data\G8G2471\8g56374.d\ECD2B.ch
Acq On : 9 May 2024 3:31 pm Operator: tilakp
Sample : cc2430-5 Inst : GC8G
Misc : op54382,g8g2471,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\methods\8PSTLVI2430a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Thu May 09 18:59:04 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	102	0.00	3.97- 4.97
2	SAB	Tetrachloro-m-xylene	1.042	1.098	-5.4	112	0.00	5.05- 5.11
3		hexachlorobenzene	1.684	1.618	3.9	103	0.00	5.38- 5.44
4	A	alpha-BHC	1.230	1.776	-44.4#	121	0.00	5.51- 5.57
5	MA	gamma-BHC	1.427	1.467	-2.8	103	0.00	5.79- 5.85
6	MA	Heptachlor	1.416	1.360	4.0	103	0.00	6.25- 6.31
7	B	beta-BHC	0.680	0.651	4.3	104	0.00	5.88- 5.94
8	B	delta-BHC	1.257	1.325	-5.4	105	0.00	6.05- 6.11
9	MB	Aldrin	1.291	1.308	-1.3	105	0.00	6.56- 6.62
10		alachlor	0.186	0.196	-5.4	115	0.00	6.71- 6.77
11	B	Heptachlor Epoxide	1.111	1.187	-6.8	113	0.00	7.22- 7.28
12	B	gamma-Chlordane	1.312	1.297	1.1	103	0.00	7.38- 7.44
13	B	alpha-Chlordane	1.235	1.258	-1.9	107	0.00	7.54- 7.60
14	A	Endosulfan I	1.196	1.295	-8.3	113	0.00	7.70- 7.76
15	B	4,4'-DDE	1.183	1.127	4.7	100	0.00	7.66- 7.72
16	MA	Dieldrin	1.280	1.259	1.6	104	0.00	8.00- 8.06
17	MA	Endrin	1.142	1.138	0.4	105	0.00	8.30- 8.36
18	A	4,4'-DDD	0.866	1.035	-19.5	114	0.00	8.44- 8.50
19	B	Endosulfan II	1.098	1.093	0.5	105	0.00	8.61- 8.67
20	MA	4,4'-DDT	0.981	0.789	19.6	87	0.00	8.83- 8.89
		---------- True Calc. % Drift ----------						
21	B	Endrin Aldehyde	5.000	4.926	1.5	101	0.00	9.20- 9.26
		---------- AvgRF CCRF % Dev ----------						
22	B	Endosulfan Sulfate	0.987	0.960	2.7	103	0.00	9.85- 9.91
23	A	Methoxychlor	0.558	0.442	20.8#	83	0.00	9.59- 9.65
24		Mirex	0.947	0.876	7.5	106	0.00	9.71- 9.77
25	B	Endrin Ketone	1.171	1.098	6.2	98	0.00	10.27-10.33
26	SA	Decachlorobiphenyl	1.124	0.993	11.7	96	0.00	12.04-12.10
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	94	0.00	3.97- 4.97
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	89	0.00	3.97- 4.97
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G8G2471-CC2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G56374.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

36		Chlordane {C}			----------NA----------			
37		Chlordane {D}			----------NA----------			
38		Chlordane {E}			----------NA----------			
*****		Signal #2 *****						
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	102	0.00	4.42- 5.42
2	SAB	Tetrachloro-m-xylene	1.471	1.334	9.3	94	0.00	5.72- 5.78
3		hexachlorobenzene	1.573	1.353	14.0	94	0.00	6.22- 6.28
4	A	alpha-BHC	2.096	1.963	6.3	98	0.00	6.36- 6.42
5	MA	gamma-BHC	1.844	1.680	8.9	95	0.00	6.78- 6.84
6	MA	Heptachlor	1.606	1.606	0.0	104	0.00	7.33- 7.39
7	B	beta-BHC	0.856	0.799	6.7	100	0.00	6.87- 6.93
8	B	delta-BHC	1.548	1.472	4.9	103	0.00	7.25- 7.31
9	MB	Aldrin	1.721	1.505	12.6	95	0.00	7.76- 7.82
			True	Calc.	% Drift			
10		alachlor	5.000	4.669	6.6	96	0.00	7.59- 7.65
			AvgRF	CCRF	% Dev			
11	B	Heptachlor Epoxide	1.589	1.437	9.6	97	0.00	8.56- 8.62
12	B	gamma-Chlordane	1.601	1.482	7.4	97	0.00	8.84- 8.90
13	B	alpha-Chlordane	1.478	1.356	8.3	100	0.00	9.06- 9.12
14	A	Endosulfan I	1.442	1.325	8.1	99	0.00	9.14- 9.20
15	B	4,4'-DDE	1.524	1.355	11.1	95	0.00	9.32- 9.38
16	MA	Dieldrin	1.625	1.449	10.8	95	0.00	9.57- 9.63
17	MA	Endrin	1.272	1.246	2.0	106	0.00	10.06-10.12
18	A	4,4'-DDD	1.263	1.219	3.5	104	0.00	10.24-10.30
19	B	Endosulfan II	1.328	1.217	8.4	98	0.00	10.40-10.46
20	MA	4,4'-DDT	0.913	0.867	5.0	100	0.00	10.77-10.83
21	B	Endrin Aldehyde	0.947	0.837	11.6	96	0.00	10.96-11.02
22	B	Endosulfan Sulfate	1.200	1.009	15.9	91	0.00	11.42-11.48
23	A	Methoxychlor	0.408	0.410	-0.5	95	0.00	11.99-12.05
24		Mirex	0.967	0.784	18.9	91	0.00	12.29-12.35
25	B	Endrin Ketone	1.284	1.083	15.7	89	0.00	12.36-12.42
26	SA	Decachlorobiphenyl	0.697	0.600	13.9	92	0.00	14.17-14.23
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	4.42- 5.42
28	L8	Toxaphene{A}			----------NA----------			
29	L8	Toxaphene{B}			----------NA----------			
30	L8	Toxaphene{C}			----------NA----------			
31	L8	Toxaphene{D}			----------NA----------			
32	L8	Toxaphene{E}			----------NA----------			
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	96	0.00	4.42- 5.42
34		Chlordane {A}			----------NA----------			
35		Chlordane {B}			----------NA----------			
36		Chlordane {C}			----------NA----------			
37		Chlordane {D}			----------NA----------			
38		Chlordane {E}			----------NA----------			

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8g56374.d 8PSTLVI2430a.M Thu May 09 19:03:26 2024

8.10.40

8

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G8G2472-CC2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G56407.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\na...72\8g56407.d\ECD1A.ch Vial: 2
Signal #2 : C:\msdchem\1\data\nazary...8G2472\8g56407.d\ECD2B.ch
Acq On : 10 May 2024 4:36 am Operator: christp
Sample : cc2430-2.5 Inst : GC8G
Misc : op54452,g8g2472,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...2\8PSTLVI2430a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Fri May 10 12:20:14 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	3.97- 4.97
2	SAB	Tetrachloro-m-xylene	1.042	0.989	5.1	105	0.00	5.05- 5.11
3		hexachlorobenzene	1.684	1.556	7.6	101	0.00	5.37- 5.43
4	A	alpha-BHC	1.230	1.602	-30.2#	128	0.00	5.50- 5.56
5	MA	gamma-BHC	1.427	1.325	7.1	99	0.00	5.78- 5.84
6	MA	Heptachlor	1.416	1.271	10.2	99	0.00	6.24- 6.30
7	B	beta-BHC	0.680	0.617	9.3	100	0.00	5.88- 5.94
8	B	delta-BHC	1.257	1.156	8.0	100	0.00	6.05- 6.11
9	MB	Aldrin	1.291	1.221	5.4	104	0.00	6.55- 6.61
10		alachlor	0.186	0.181	2.7	101	0.00	6.70- 6.76
11	B	Heptachlor Epoxide	1.111	1.113	-0.2	108	0.00	7.22- 7.28
12	B	gamma-Chlordane	1.312	1.260	4.0	104	0.00	7.37- 7.43
13	B	alpha-Chlordane	1.235	1.238	-0.2	111	0.00	7.53- 7.59
14	A	Endosulfan I	1.196	1.299	-8.6	120	0.00	7.69- 7.75
15	B	4,4'-DDE	1.183	1.009	14.7	94	0.00	7.65- 7.71
16	MA	Dieldrin	1.280	1.196	6.6	103	0.00	7.99- 8.05
17	MA	Endrin	1.142	1.070	6.3	102	0.00	8.29- 8.35
18	A	4,4'-DDD	0.866	0.914	-5.5	111	0.00	8.43- 8.49
19	B	Endosulfan II	1.098	1.042	5.1	104	0.00	8.60- 8.66
20	MA	4,4'-DDT	0.981	0.722	26.4#	81	0.00	8.83- 8.89
		---------- True	Calc.	% Drift	----------			
21	B	Endrin Aldehyde	2.500	2.288	8.5	96	0.00	9.19- 9.25
		---------- AvgRF	CCRF	% Dev	----------			
22	B	Endosulfan Sulfate	0.987	0.905	8.3	99	0.00	9.84- 9.90
23	A	Methoxychlor	0.558	0.378	32.3#	74	0.00	9.59- 9.65
24		Mirex	0.947	0.931	1.7	108	0.00	9.70- 9.76
25	B	Endrin Ketone	1.171	1.094	6.6	100	0.00	10.26-10.32
26	SA	Decachlorobiphenyl	1.124	0.987	12.2	94	0.00	12.03-12.09
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	3.97- 4.97
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	3.97- 4.97
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					

Continuing Calibration Summary

Job Number: JD87833 **Sample:** G8G2472-CC2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G56407.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

36		Chlordane {C}			----------NA----------				
37		Chlordane {D}			----------NA----------				
38		Chlordane {E}			----------NA----------				
*****		Signal #2 *****							
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	111	0.00	4.42- 5.42	
2	SAB	Tetrachloro-m-xylene	1.471	1.310	10.9	103	0.00	5.71- 5.77	
3		hexachlorobenzene	1.573	1.327	15.6	98	0.00	6.21- 6.27	
4	A	alpha-BHC	2.096	1.878	10.4	102	0.00	6.35- 6.41	
5	MA	gamma-BHC	1.844	1.612	12.6	99	0.00	6.77- 6.83	
6	MA	Heptachlor	1.606	1.571	2.2	113	0.00	7.32- 7.38	
7	B	beta-BHC	0.856	0.781	8.8	105	0.00	6.87- 6.93	
8	B	delta-BHC	1.548	1.327	14.3	99	0.00	7.24- 7.30	
9	MB	Aldrin	1.721	1.484	13.8	98	0.00	7.75- 7.81	
		---------- True Calc. % Drift ----------							
10		alachlor	2.500	1.969	21.2#	91	0.00	7.58- 7.64	
		---------- AvgRF CCRF % Dev ----------							
11	B	Heptachlor Epoxide	1.589	1.384	12.9	100	0.00	8.55- 8.61	
12	B	gamma-Chlordane	1.601	1.418	11.4	100	0.00	8.83- 8.89	
13	B	alpha-Chlordane	1.478	1.286	13.0	100	0.00	9.05- 9.11	
14	A	Endosulfan I	1.442	1.290	10.5	103	0.00	9.14- 9.20	
15	B	4,4'-DDE	1.524	1.303	14.5	98	0.00	9.31- 9.37	
16	MA	Dieldrin	1.625	1.385	14.8	99	0.00	9.56- 9.62	
17	MA	Endrin	1.272	1.152	9.4	103	0.00	10.05-10.11	
18	A	4,4'-DDD	1.263	1.140	9.7	102	0.00	10.24-10.30	
19	B	Endosulfan II	1.328	1.143	13.9	98	0.00	10.39-10.45	
20	MA	4,4'-DDT	0.913	0.808	11.5	98	0.00	10.76-10.82	
21	B	Endrin Aldehyde	0.947	0.808	14.7	97	0.00	10.95-11.01	
22	B	Endosulfan Sulfate	1.200	0.961	19.9	92	0.00	11.42-11.48	
23	A	Methoxychlor	0.408	0.383	6.1	101	0.00	11.98-12.04	
24		Mirex	0.967	0.805	16.8	99	0.00	12.28-12.34	
25	B	Endrin Ketone	1.284	1.094	14.8	97	0.00	12.35-12.41	
26	SA	Decachlorobiphenyl	0.697	0.577	17.2	95	0.00	14.16-14.22	
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	112	0.00	4.42- 5.42	
28	L8	Toxaphene{A}			----------NA----------				
29	L8	Toxaphene{B}			----------NA----------				
30	L8	Toxaphene{C}			----------NA----------				
31	L8	Toxaphene{D}			----------NA----------				
32	L8	Toxaphene{E}			----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	112	0.00	4.42- 5.42	
34		Chlordane {A}			----------NA----------				
35		Chlordane {B}			----------NA----------				
36		Chlordane {C}			----------NA----------				
37		Chlordane {D}			----------NA----------				
38		Chlordane {E}			----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8g56407.d 8PSTLVI2430a.M Fri May 10 12:38:47 2024

8.10.41

8

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G1G6859	**Method:** SW846 8081B	**Instrument ID:** GC1G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G1G6859-DDT	1G192510.D	01/29/24 04:36	n/a	DDT/Endrin Breakdown Check
G1G6859-IC6859	1G192513.D	01/29/24 06:02	n/a	Initial cal 1
G1G6859-IC6859	1G192514.D	01/29/24 06:18	n/a	Initial cal 2
G1G6859-IC6859	1G192515.D	01/29/24 06:35	n/a	Initial cal 5
G1G6859-IC6859	1G192516.D	01/29/24 06:51	n/a	Initial cal 10
G1G6859-ICC6859	1G192517.D	01/29/24 07:07	n/a	Initial cal 25
G1G6859-IC6859	1G192518.D	01/29/24 07:23	n/a	Initial cal 50
G1G6859-IC6859	1G192519.D	01/29/24 07:40	n/a	Initial cal 75
G1G6859-IC6859	1G192520.D	01/29/24 07:56	n/a	Initial cal 100
G1G6859-IC6859	1G192521.D	01/29/24 08:12	n/a	Initial cal 500
G1G6859-IC6859	1G192522.D	01/29/24 08:28	n/a	Initial cal 500
G1G6859-ICV6859	1G192523.D	01/29/24 08:45	n/a	Initial cal verification 25
G1G6859-ICV6859	1G192524.D	01/29/24 09:01	n/a	Initial cal verification 500
G1G6859-ICV6859	1G192525.D	01/29/24 09:17	n/a	Initial cal verification 500

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G1G7004	**Method:** SW846 8081B	**Instrument ID:** GC1G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G1G7004-DDT	1G196190.D	05/07/24 23:05	n/a	DDT/Endrin Breakdown Check
G1G7004-CC6859	1G196193.D	05/07/24 23:51	n/a	Continuing cal 50
OP54399-MB1	1G196195.D	05/08/24 00:24	OP54399	Method Blank
OP54399-BS1	1G196196.D	05/08/24 00:40	OP54399	Blank Spike
OP54399-BSD	1G196197.D	05/08/24 00:55	OP54399	Blank Spike Duplicate
OP54397A-MB1	1G196198.D	05/08/24 01:10	OP54397A	Method Blank
OP54397-MB1	1G196198.D	05/08/24 01:10	OP54397	Method Blank
OP54397A-BS1	1G196199.D	05/08/24 01:26	OP54397A	Blank Spike
OP54397-BS1	1G196199.D	05/08/24 01:26	OP54397	Blank Spike
OP54397A-BSD	1G196200.D	05/08/24 01:41	OP54397A	Blank Spike Duplicate
OP54397-BSD	1G196200.D	05/08/24 01:41	OP54397	Blank Spike Duplicate
ZZZZZZ	1G196201.D	05/08/24 01:56	OP54355A	(unrelated sample)
ZZZZZZ	1G196202.D	05/08/24 02:12	OP54355A	(unrelated sample)
ZZZZZZ	1G196203.D	05/08/24 02:27	OP54397A	(unrelated sample)
ZZZZZZ	1G196204.D	05/08/24 02:42	OP54397A	(unrelated sample)
ZZZZZZ	1G196205.D	05/08/24 02:57	OP54397A	(unrelated sample)
ZZZZZZ	1G196206.D	05/08/24 03:13	OP54397	(unrelated sample)
ZZZZZZ	1G196207.D	05/08/24 03:28	OP54397	(unrelated sample)
ZZZZZZ	1G196208.D	05/08/24 03:43	OP54397	(unrelated sample)
ZZZZZZ	1G196209.D	05/08/24 03:59	OP54399	(unrelated sample)
JD87833-17	1G196210.D	05/08/24 04:14	OP54399	FIELD BLANK
ZZZZZZ	1G196211.D	05/08/24 04:29	OP54397	(unrelated sample)
ZZZZZZ	1G196212.D	05/08/24 04:45	OP54397	(unrelated sample)
ZZZZZZ	1G196213.D	05/08/24 05:00	OP54397	(unrelated sample)
G1G7004-CC6859	1G196214.D	05/08/24 05:15	n/a	Continuing cal 25
ZZZZZZ	1G196216.D	05/08/24 05:46	OP54397	(unrelated sample)
ZZZZZZ	1G196217.D	05/08/24 06:01	OP54397	(unrelated sample)
ZZZZZZ	1G196219.D	05/08/24 06:32	OP54397	(unrelated sample)
ZZZZZZ	1G196220.D	05/08/24 06:47	OP54397	(unrelated sample)

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G1G7013	**Method:** EPA 608.3	**Instrument ID:** GC1G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G1G7013-DDT	1G196349.D	05/14/24 07:22	n/a	DDT/Endrin Breakdown Check
G1G7013-CC6859	1G196352.D	05/14/24 08:13	n/a	Continuing cal 25
OP54558A-MB1	1G196354.D	05/14/24 08:52	OP54558A	Method Blank
OP54558A-BS1	1G196355.D	05/14/24 09:07	OP54558A	Blank Spike
OP54558A-BSD	1G196356.D	05/14/24 09:22	OP54558A	Blank Spike Duplicate
OP54558A-BS13	1G196357.D	05/14/24 09:38	OP54558A	Blank Spike
OP54558A-BS14	1G196358.D	05/14/24 09:53	OP54558A	Blank Spike
OP54554A-MB1	1G196359.D	05/14/24 10:08	OP54554A	Method Blank
OP54554-MB1	1G196359.D	05/14/24 10:08	OP54554	Method Blank
OP54554A-BS1	1G196360.D	05/14/24 10:24	OP54554A	Blank Spike
OP54554-BS1	1G196360.D	05/14/24 10:24	OP54554	Blank Spike
OP54554-BSD	1G196361.D	05/14/24 10:39	OP54554	Blank Spike Duplicate
OP54554A-BSD	1G196361.D	05/14/24 10:39	OP54554A	Blank Spike Duplicate
OP54554A-BS13	1G196362.D	05/14/24 10:54	OP54554A	Blank Spike
OP54554A-BS14	1G196363.D	05/14/24 11:10	OP54554A	Blank Spike
ZZZZZZ	1G196364.D	05/14/24 11:25	OP54554A	(unrelated sample)
ZZZZZZ	1G196365.D	05/14/24 11:41	OP54554A	(unrelated sample)
ZZZZZZ	1G196366.D	05/14/24 11:56	OP54558A	(unrelated sample)
ZZZZZZ	1G196367.D	05/14/24 12:11	OP54558A	(unrelated sample)
ZZZZZZ	1G196368.D	05/14/24 12:27	OP54558A	(unrelated sample)
ZZZZZZ	1G196369.D	05/14/24 12:42	OP54397A	(unrelated sample)
G1G7013-CC6859	1G196372.D	05/14/24 13:28	n/a	Continuing cal 50

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G1G7016	**Method:** SW846 8081B	**Instrument ID:** GC1G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G1G7016-DDT	1G196427.D	05/15/24 10:21	n/a	DDT/Endrin Breakdown Check
G1G7016-CC6859	1G196428.D	05/15/24 10:36	n/a	Continuing cal 25
ZZZZZZ	1G196430.D	05/15/24 11:33	OP54554	(unrelated sample)
JD87833-17R	1G196431.D	05/15/24 11:49	OP54554	FIELD BLANK
ZZZZZZ	1G196433.D	05/15/24 12:19	OP54554	(unrelated sample)
ZZZZZZ	1G196434.D	05/15/24 12:35	OP54554	(unrelated sample)
ZZZZZZ	1G196435.D	05/15/24 12:50	OP54620	(unrelated sample)
G1G7016-CC6859	1G196437.D	05/15/24 13:42	n/a	Continuing cal 50
OP54620A-MB1	1G196439.D	05/15/24 14:13	OP54620A	Method Blank
OP54620-MB1	1G196439.D	05/15/24 14:13	OP54620	Method Blank
OP54620A-BS1	1G196440.D	05/15/24 14:29	OP54620A	Blank Spike
OP54620-BS1	1G196440.D	05/15/24 14:29	OP54620	Blank Spike
OP54620A-BSD	1G196441.D	05/15/24 14:44	OP54620A	Blank Spike Duplicate
OP54554A-MB2	1G196442.D	05/15/24 14:59	OP54554A	Method Blank
OP54554A-BS2	1G196443.D	05/15/24 15:15	OP54554A	Blank Spike
OP54554A-BSD2	1G196444.D	05/15/24 15:30	OP54554A	Blank Spike Duplicate
OP54554A-BS132	1G196445.D	05/15/24 15:45	OP54554A	Blank Spike
OP54554A-BS142	1G196446.D	05/15/24 16:01	OP54554A	Blank Spike
OP54620-MS	1G196447.D	05/15/24 16:16	OP54620	Matrix Spike
OP54620-MSD	1G196448.D	05/15/24 16:31	OP54620	Matrix Spike Duplicate
LB2107-14	1G196449.D	05/15/24 16:47	OP54620	(used for QC only; not part of job JD87833)
ZZZZZZ	1G196450.D	05/15/24 17:02	OP54620A	(unrelated sample)
ZZZZZZ	1G196451.D	05/15/24 17:18	OP54620A	(unrelated sample)
ZZZZZZ	1G196452.D	05/15/24 17:33	OP54640	(unrelated sample)
G1G7016-CC6859	1G196453.D	05/15/24 17:48	n/a	Continuing cal 25

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G2G6081	**Method:** SW846 8082A	**Instrument ID:** GC2G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G2G6081-IC6081	2G231552.D	04/29/24 03:50	n/a	Initial cal 5
G2G6081-IC6081	2G231553.D	04/29/24 04:15	n/a	Initial cal 10
G2G6081-IC6081	2G231554.D	04/29/24 04:41	n/a	Initial cal 25
G2G6081-IC6081	2G231555.D	04/29/24 05:06	n/a	Initial cal 50
G2G6081-ICC6081	2G231556.D	04/29/24 05:31	n/a	Initial cal 100
G2G6081-IC6081	2G231557.D	04/29/24 05:56	n/a	Initial cal 200
G2G6081-IC6081	2G231558.D	04/29/24 06:22	n/a	Initial cal 300
G2G6081-IC6081	2G231559.D	04/29/24 06:47	n/a	Initial cal 500
G2G6081-IC6081	2G231560.D	04/29/24 07:12	n/a	Initial cal 1000
G2G6081-IC6081	2G231561.D	04/29/24 07:37	n/a	Initial cal 2000
G2G6081-ICV6081	2G231562.D	04/29/24 08:02	n/a	Initial cal verification 100
G2G6081-IC6081	2G231563.D	04/29/24 08:27	n/a	Initial cal 100
G2G6081-IC6081	2G231565.D	04/29/24 09:17	n/a	Initial cal 100
G2G6081-IC6081	2G231566.D	04/29/24 09:42	n/a	Initial cal 100
G2G6081-IC6081	2G231568.D	04/29/24 10:32	n/a	Initial cal 100
G2G6081-ICV6081	2G231570.D	04/29/24 11:22	n/a	Initial cal verification 100
G2G6081-ICV6081	2G231572.D	04/29/24 12:13	n/a	Initial cal verification 100
G2G6081-ICV6081	2G231573.D	04/29/24 12:38	n/a	Initial cal verification 100
G2G6081-ICV6081	2G231574.D	04/29/24 13:04	n/a	Initial cal verification 100
G2G6081-IC6081	2G231581.D	05/01/24 07:42	n/a	Initial cal 5
G2G6081-IC6081	2G231582.D	05/01/24 08:07	n/a	Initial cal 10
G2G6081-IC6081	2G231583.D	05/01/24 08:32	n/a	Initial cal 25
G2G6081-IC6081	2G231584.D	05/01/24 08:57	n/a	Initial cal 50
G2G6081-IC6081	2G231585.D	05/01/24 09:22	n/a	Initial cal 100
G2G6081-IC6081	2G231586.D	05/01/24 09:46	n/a	Initial cal 200
G2G6081-IC6081	2G231587.D	05/01/24 10:12	n/a	Initial cal 300
G2G6081-IC6081	2G231588.D	05/01/24 10:37	n/a	Initial cal 500
G2G6081-IC6081	2G231589.D	05/01/24 11:02	n/a	Initial cal 1000
G2G6081-IC6081	2G231590.D	05/01/24 11:27	n/a	Initial cal 2000
G2G6081-ICV6081	2G231591.D	05/01/24 11:52	n/a	Initial cal verification 100
G2G6081-IC6081	2G231592.D	05/01/24 12:17	n/a	Initial cal 5
G2G6081-IC6081	2G231593.D	05/01/24 12:43	n/a	Initial cal 10
G2G6081-IC6081	2G231594.D	05/01/24 13:08	n/a	Initial cal 25
G2G6081-IC6081	2G231595.D	05/01/24 13:34	n/a	Initial cal 50
G2G6081-IC6081	2G231596.D	05/01/24 13:59	n/a	Initial cal 100
G2G6081-IC6081	2G231597.D	05/01/24 14:24	n/a	Initial cal 200
G2G6081-IC6081	2G231598.D	05/01/24 14:50	n/a	Initial cal 300
G2G6081-IC6081	2G231599.D	05/01/24 15:15	n/a	Initial cal 500
G2G6081-IC6081	2G231600.D	05/01/24 15:41	n/a	Initial cal 1000
G2G6081-IC6081	2G231601.D	05/01/24 16:07	n/a	Initial cal 2000
G2G6081-ICV6081	2G231602.D	05/01/24 16:32	n/a	Initial cal verification 100
G2G6081-IC6081	2G231603.D	05/01/24 16:57	n/a	Initial cal 5
G2G6081-IC6081	2G231604.D	05/01/24 17:21	n/a	Initial cal 10
G2G6081-IC6081	2G231605.D	05/01/24 17:46	n/a	Initial cal 25
G2G6081-IC6081	2G231606.D	05/01/24 18:11	n/a	Initial cal 50
G2G6081-IC6081	2G231607.D	05/01/24 18:35	n/a	Initial cal 100

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G2G6081	**Method:** SW846 8082A	**Instrument ID:** GC2G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G2G6081-IC6081	2G231608.D	05/01/24 19:00	n/a	Initial cal 200
G2G6081-IC6081	2G231609.D	05/01/24 19:25	n/a	Initial cal 300
G2G6081-IC6081	2G231610.D	05/01/24 19:51	n/a	Initial cal 500
G2G6081-IC6081	2G231611.D	05/01/24 20:16	n/a	Initial cal 1000
G2G6081-IC6081	2G231612.D	05/01/24 20:42	n/a	Initial cal 2000
G2G6081-ICV6081	2G231613.D	05/01/24 21:07	n/a	Initial cal verification 100

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G2G6085	**Method:** SW846 8082A	**Instrument ID:** GC2G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G2G6085-CC6081	2G231714.D	05/08/24 20:15	n/a	Continuing cal 100
G2G6085-CC6081	2G231731.D	05/09/24 04:02	n/a	Continuing cal 100
OP54453-MB1	2G231733.D	05/09/24 04:51	OP54453	Method Blank
OP54453-BS1	2G231734.D	05/09/24 05:15	OP54453	Blank Spike
OP54453-MS	2G231735.D	05/09/24 05:39	OP54453	Matrix Spike
OP54453-MSD	2G231736.D	05/09/24 06:03	OP54453	Matrix Spike Duplicate
JD87833-1	2G231737.D	05/09/24 06:27	OP54453	SB-1
JD87833-3	2G231738.D	05/09/24 06:51	OP54453	SB-3
JD87833-4	2G231739.D	05/09/24 07:15	OP54453	SB-4
G2G6085-CC6081	2G231742.D	05/09/24 08:28	n/a	Continuing cal 50
JD87833-5	2G231744.D	05/09/24 09:16	OP54453	SB-5
JD87833-7	2G231745.D	05/09/24 09:40	OP54453	SB-7
JD87833-8	2G231746.D	05/09/24 10:04	OP54453	SB-8
JD87833-10	2G231747.D	05/09/24 10:28	OP54453	SB-10
JD87833-11	2G231748.D	05/09/24 10:52	OP54453	SB-11
JD87833-12	2G231749.D	05/09/24 11:15	OP54453	SB-12
JD87833-14	2G231750.D	05/09/24 11:39	OP54453	SB-14
G2G6085-CC6081	2G231753.D	05/09/24 12:51	n/a	Continuing cal 100
JD87833-15	2G231755.D	05/09/24 13:39	OP54453	DUPE 1
JD87833-16	2G231756.D	05/09/24 14:03	OP54453	DUPE 2
ZZZZZZ	2G231757.D	05/09/24 14:28	OP54453	(unrelated sample)
JD87772-2	2G231758.D	05/09/24 14:52	OP54453	(used for QC only; not part of job JD87833)
ZZZZZZ	2G231759.D	05/09/24 15:16	OP54453	(unrelated sample)
ZZZZZZ	2G231760.D	05/09/24 15:40	OP54453	(unrelated sample)
ZZZZZZ	2G231761.D	05/09/24 16:04	OP54453	(unrelated sample)
G2G6085-CC6081	2G231764.D	05/09/24 17:16	n/a	Continuing cal 50
ZZZZZZ	2G231766.D	05/09/24 18:04	OP54453	(unrelated sample)
ZZZZZZ	2G231767.D	05/09/24 18:28	OP54453	(unrelated sample)
G2G6085-CC6081	2G231770.D	05/09/24 19:40	n/a	Continuing cal 100

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G3G5160	**Method:** SW846 8082A	**Instrument ID:** GC3G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G3G5160-IC5160	3G140971.D	04/23/24 15:29	n/a	Initial cal 50
G3G5160-IC5160	3G140972.D	04/23/24 15:45	n/a	Initial cal 250
G3G5160-IC5160	3G140973.D	04/23/24 16:02	n/a	Initial cal 500
G3G5160-ICC5160	3G140974.D	04/23/24 16:19	n/a	Initial cal 1000
G3G5160-IC5160	3G140975.D	04/23/24 16:35	n/a	Initial cal 2000
G3G5160-IC5160	3G140976.D	04/23/24 16:52	n/a	Initial cal 3000
G3G5160-IC5160	3G140980.D	04/23/24 17:58	n/a	Initial cal 1000
G3G5160-IC5160	3G140981.D	04/23/24 18:15	n/a	Initial cal 1000
G3G5160-IC5160	3G140982.D	04/23/24 18:31	n/a	Initial cal 1000
G3G5160-IC5160	3G140983.D	04/23/24 18:48	n/a	Initial cal 1000
G3G5160-IC5160	3G140984.D	04/23/24 19:04	n/a	Initial cal 1000
G3G5160-IC5160	3G140985.D	04/23/24 19:21	n/a	Initial cal 1000
G3G5160-IC5160	3G140986.D	04/23/24 19:38	n/a	Initial cal 1000
G3G5160-ICV5160	3G140987.D	04/23/24 19:54	n/a	Initial cal verification 1000
G3G5160-ICV5160	3G140988.D	04/23/24 20:11	n/a	Initial cal verification 1000
G3G5160-ICV5160	3G140989.D	04/23/24 20:28	n/a	Initial cal verification 1000
G3G5160-ICV5160	3G140990.D	04/23/24 20:44	n/a	Initial cal verification 1000
G3G5160-ICV5160	3G140991.D	04/23/24 21:01	n/a	Initial cal verification 1000
G3G5160-ICV5160	3G140992.D	04/23/24 21:18	n/a	Initial cal verification 1000
G3G5160-ICV5160	3G140993.D	04/23/24 21:34	n/a	Initial cal verification 1000
G3G5160-ICV5160	3G140994.D	04/23/24 21:51	n/a	Initial cal verification 1000

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G3G5173	**Method:** SW846 8082A	**Instrument ID:** GC3G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G3G5173-CC5160	3G141327.D	05/08/24 00:33	n/a	Continuing cal 1000
OP54398-MB1	3G141329.D	05/08/24 01:07	OP54398	Method Blank
OP54398-BS1	3G141330.D	05/08/24 01:23	OP54398	Blank Spike
OP54398-BSD	3G141331.D	05/08/24 01:40	OP54398	Blank Spike Duplicate
ZZZZZZ	3G141332.D	05/08/24 01:56	OP54398	(unrelated sample)
ZZZZZZ	3G141333.D	05/08/24 02:13	OP54398	(unrelated sample)
ZZZZZZ	3G141334.D	05/08/24 02:30	OP54398	(unrelated sample)
ZZZZZZ	3G141335.D	05/08/24 02:46	OP54398	(unrelated sample)
OP54400-MB1	3G141337.D	05/08/24 03:20	OP54400	Method Blank
OP54400-BS1	3G141338.D	05/08/24 03:36	OP54400	Blank Spike
OP54400-BSD	3G141339.D	05/08/24 03:53	OP54400	Blank Spike Duplicate
ZZZZZZ	3G141340.D	05/08/24 04:10	OP54400	(unrelated sample)
JD87833-17	3G141341.D	05/08/24 04:26	OP54400	FIELD BLANK
OP54402A-MB1	3G141343.D	05/08/24 05:00	OP54402A	Method Blank
OP54402A-BS1	3G141344.D	05/08/24 05:16	OP54402A	Blank Spike
OP54402A-BSD	3G141345.D	05/08/24 05:33	OP54402A	Blank Spike Duplicate
ZZZZZZ	3G141346.D	05/08/24 05:49	OP54402A	(unrelated sample)
ZZZZZZ	3G141347.D	05/08/24 06:06	OP54402A	(unrelated sample)
ZZZZZZ	3G141348.D	05/08/24 06:23	OP54402A	(unrelated sample)
G3G5173-CC5160	3G141351.D	05/08/24 07:13	n/a	Continuing cal 500

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G8G2430	**Method:** SW846 8081B	**Instrument ID:** GC8G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G8G2430-DDT	8G55351.D	04/03/24 00:00	n/a	DDT/Endrin Breakdown Check
G8G2430-IC2430	8G55356.D	04/03/24 05:57	n/a	Initial cal 0.2
G8G2430-IC2430	8G55357.D	04/03/24 06:19	n/a	Initial cal 0.5
G8G2430-IC2430	8G55358.D	04/03/24 06:41	n/a	Initial cal 1
G8G2430-ICC2430	8G55359.D	04/03/24 07:03	n/a	Initial cal 2.5
G8G2430-IC2430	8G55360.D	04/03/24 07:24	n/a	Initial cal 5.0
G8G2430-IC2430	8G55361.D	04/03/24 07:46	n/a	Initial cal 7.5
G8G2430-IC2430	8G55362.D	04/03/24 08:08	n/a	Initial cal 10
G8G2430-IC2430	8G55363.D	04/03/24 08:30	n/a	Initial cal 50
G8G2430-IC2430	8G55364.D	04/03/24 08:52	n/a	Initial cal 50
G8G2430-ICV2430	8G55365.D	04/03/24 09:13	n/a	Initial cal verification 2.5
G8G2430-ICV2430	8G55366.D	04/03/24 09:35	n/a	Initial cal verification 50
G8G2430-ICV2430	8G55367.D	04/03/24 09:57	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G8G2470	**Method:** SW846 8081B	**Instrument ID:** GC8G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G8G2470-DDT	8G56334.D	05/09/24 00:15	n/a	DDT/Endrin Breakdown Check
G8G2470-CC2430	8G56335.D	05/09/24 00:37	n/a	Continuing cal 2.5
OP54452-MB1	8G56337.D	05/09/24 01:20	OP54452	Method Blank
OP54452-BS1	8G56338.D	05/09/24 01:42	OP54452	Blank Spike
ZZZZZZ	8G56339.D	05/09/24 02:04	OP54425	(unrelated sample)
ZZZZZZ	8G56341.D	05/09/24 02:47	OP54425	(unrelated sample)
ZZZZZZ	8G56342.D	05/09/24 03:09	OP54425	(unrelated sample)
ZZZZZZ	8G56343.D	05/09/24 03:31	OP54382	(unrelated sample)
ZZZZZZ	8G56344.D	05/09/24 03:52	OP54382	(unrelated sample)
ZZZZZZ	8G56345.D	05/09/24 04:14	OP54382	(unrelated sample)
ZZZZZZ	8G56346.D	05/09/24 04:36	OP54382	(unrelated sample)
ZZZZZZ	8G56347.D	05/09/24 04:58	OP54382	(unrelated sample)
OP54452-MS	8G56349.D	05/09/24 05:41	OP54452	Matrix Spike
OP54452-MSD	8G56350.D	05/09/24 06:03	OP54452	Matrix Spike Duplicate
JD87833-1	8G56351.D	05/09/24 06:24	OP54452	SB-1
JD87833-3	8G56352.D	05/09/24 06:46	OP54452	SB-3
JD87833-4	8G56353.D	05/09/24 07:08	OP54452	SB-4
JD87833-7	8G56355.D	05/09/24 07:52	OP54452	SB-7
JD87833-8	8G56356.D	05/09/24 08:13	OP54452	SB-8
JD87833-10	8G56357.D	05/09/24 08:35	OP54452	SB-10
JD87833-12	8G56359.D	05/09/24 09:19	OP54452	SB-12
JD87833-14	8G56360.D	05/09/24 09:40	OP54452	SB-14
JD87833-15	8G56361.D	05/09/24 10:02	OP54452	DUPE 1
JD87833-16	8G56362.D	05/09/24 10:24	OP54452	DUPE 2
JD87772-1	8G56363.D	05/09/24 10:45	OP54452	(used for QC only; not part of job JD87833)
ZZZZZZ	8G56364.D	05/09/24 11:07	OP54452	(unrelated sample)
ZZZZZZ	8G56365.D	05/09/24 11:29	OP54452	(unrelated sample)
ZZZZZZ	8G56366.D	05/09/24 11:50	OP54452	(unrelated sample)
ZZZZZZ	8G56367.D	05/09/24 12:12	OP54452	(unrelated sample)

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G8G2471	**Method:** SW846 8081B	**Instrument ID:** GC8G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G8G2471-DDT	8G56373.D	05/09/24 15:09	n/a	DDT/Endrin Breakdown Check
G8G2471-CC2430	8G56374.D	05/09/24 15:31	n/a	Continuing cal 5
OP54426-MB1	8G56377.D	05/09/24 16:44	OP54426	Method Blank
OP54426-BS1	8G56378.D	05/09/24 17:06	OP54426	Blank Spike
ZZZZZZ	8G56379.D	05/09/24 17:28	OP54425	(unrelated sample)
ZZZZZZ	8G56380.D	05/09/24 17:50	OP54452	(unrelated sample)
ZZZZZZ	8G56381.D	05/09/24 18:11	OP54452	(unrelated sample)
OP54426-MS	8G56382.D	05/09/24 18:33	OP54426	Matrix Spike
OP54426-MSD	8G56383.D	05/09/24 18:55	OP54426	Matrix Spike Duplicate
LB1891-1	8G56384.D	05/09/24 19:17	OP54426	(used for QC only; not part of job JD87833)
ZZZZZZ	8G56385.D	05/09/24 19:39	OP54426	(unrelated sample)
ZZZZZZ	8G56386.D	05/09/24 20:00	OP54426	(unrelated sample)
ZZZZZZ	8G56387.D	05/09/24 20:22	OP54426	(unrelated sample)
ZZZZZZ	8G56388.D	05/09/24 20:44	OP54426	(unrelated sample)
ZZZZZZ	8G56389.D	05/09/24 21:05	OP54426	(unrelated sample)
ZZZZZZ	8G56390.D	05/09/24 21:27	OP54426	(unrelated sample)
ZZZZZZ	8G56391.D	05/09/24 21:49	OP54426	(unrelated sample)
ZZZZZZ	8G56392.D	05/09/24 22:10	OP54426	(unrelated sample)
ZZZZZZ	8G56393.D	05/09/24 22:32	OP54426	(unrelated sample)
ZZZZZZ	8G56394.D	05/09/24 22:54	OP54426	(unrelated sample)
ZZZZZZ	8G56395.D	05/09/24 23:16	OP54426	(unrelated sample)
ZZZZZZ	8G56396.D	05/09/24 23:37	OP54426	(unrelated sample)
ZZZZZZ	8G56397.D	05/09/24 23:59	OP54430	(unrelated sample)
ZZZZZZ	8G56398.D	05/10/24 00:21	OP54430	(unrelated sample)
ZZZZZZ	8G56399.D	05/10/24 00:43	OP54430	(unrelated sample)
ZZZZZZ	8G56400.D	05/10/24 01:05	OP54382	(unrelated sample)
JD87833-5	8G56401.D	05/10/24 01:27	OP54452	SB-5

Run Sequence Report

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G8G2472	**Method:** SW846 8081B	**Instrument ID:** GC8G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G8G2472-DDT	8G56406.D	05/10/24 04:14	n/a	DDT/Endrin Breakdown Check
G8G2472-CC2430	8G56407.D	05/10/24 04:36	n/a	Continuing cal 2.5
OP54526-MB1	8G56409.D	05/10/24 05:20	OP54526	Method Blank
OP54526-BS1	8G56410.D	05/10/24 05:41	OP54526	Blank Spike
OP54526-MS	8G56411.D	05/10/24 06:03	OP54526	Matrix Spike
OP54526-LS12	8G56411.D	05/10/24 06:03	OP54526	Leachate Spike
OP54526-MSD	8G56412.D	05/10/24 06:25	OP54526	Matrix Spike Duplicate
OP54526-LB12	8G56413.D	05/10/24 06:47	OP54526	Leachate Blank
ZZZZZZ	8G56414.D	05/10/24 07:09	OP54526	(unrelated sample)
JD87790-2	8G56415.D	05/10/24 07:31	OP54526	(used for QC only; not part of job JD87833)
ZZZZZZ	8G56416.D	05/10/24 07:53	OP54526	(unrelated sample)
ZZZZZZ	8G56417.D	05/10/24 08:15	OP54526	(unrelated sample)
ZZZZZZ	8G56418.D	05/10/24 08:37	OP54526	(unrelated sample)
ZZZZZZ	8G56419.D	05/10/24 08:58	OP54526	(unrelated sample)
ZZZZZZ	8G56420.D	05/10/24 09:20	OP54526	(unrelated sample)
ZZZZZZ	8G56421.D	05/10/24 09:42	OP54526	(unrelated sample)
ZZZZZZ	8G56422.D	05/10/24 10:04	OP54526	(unrelated sample)
ZZZZZZ	8G56423.D	05/10/24 10:26	OP54526	(unrelated sample)
ZZZZZZ	8G56424.D	05/10/24 10:48	OP54526	(unrelated sample)
ZZZZZZ	8G56425.D	05/10/24 11:10	OP54526	(unrelated sample)
ZZZZZZ	8G56426.D	05/10/24 11:31	OP54526	(unrelated sample)
ZZZZZZ	8G56427.D	05/10/24 11:53	OP54526	(unrelated sample)
ZZZZZZ	8G56428.D	05/10/24 12:15	OP54526	(unrelated sample)
ZZZZZZ	8G56429.D	05/10/24 12:37	OP54526	(unrelated sample)
ZZZZZZ	8G56430.D	05/10/24 12:59	OP54526	(unrelated sample)
ZZZZZZ	8G56431.D	05/10/24 13:21	OP54526	(unrelated sample)
ZZZZZZ	8G56432.D	05/10/24 13:42	OP54526	(unrelated sample)
ZZZZZZ	8G56433.D	05/10/24 14:04	OP54526	(unrelated sample)
JD87833-11	8G56434.D	05/10/24 15:41	OP54452	SB-11

GC/LC Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/15/24 16:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\1G7004\
Data File : 1g196210.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 May 2024 4:14 am
Operator : christp
Sample : jd87833-17
Misc : op54399,g1g7004,250,,,2,1
ALS Vial : 56 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 15 15:07:07 2024
Quant Method : C:\msdchem\1\data\carlos\1G7004\1PST6859a.M
Quant Title : PEST/PCB
QLast Update : Wed May 08 14:18:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.236	1.138	347.9E6	373.4E6	50.000m	50.000m
27) I 1-bromo-2...	1.236	1.138	346.7E6	368.8E6	50.000m	50.000m
33) I 1-bromo-2...	1.236	1.138	350.4E6	369.3E6	50.000m	50.000m
System Monitoring Compounds						
2) SAB Tetrachlo...	1.697	1.735	143.8E6	102.3E6	21.586m	21.884m
Spiked Amount 40.000	Range 30 - 150		Recovery =		53.96%	54.71%
26) SA Decachlor...	8.614	9.951	76495791	79080498	11.267m	9.944m
Spiked Amount 40.000			Recovery =		28.17%	24.86%
Target Compounds						
20) MA 4,4'-DDT	5.240	6.128	13256018	14710902	2.455m	2.731m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						

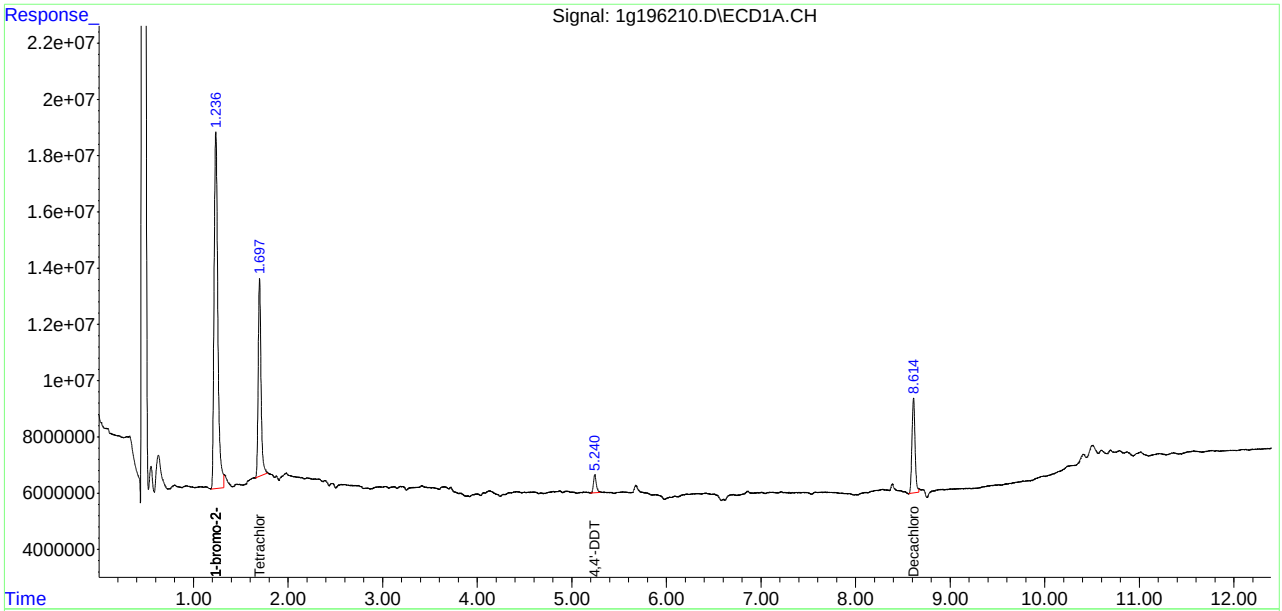
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

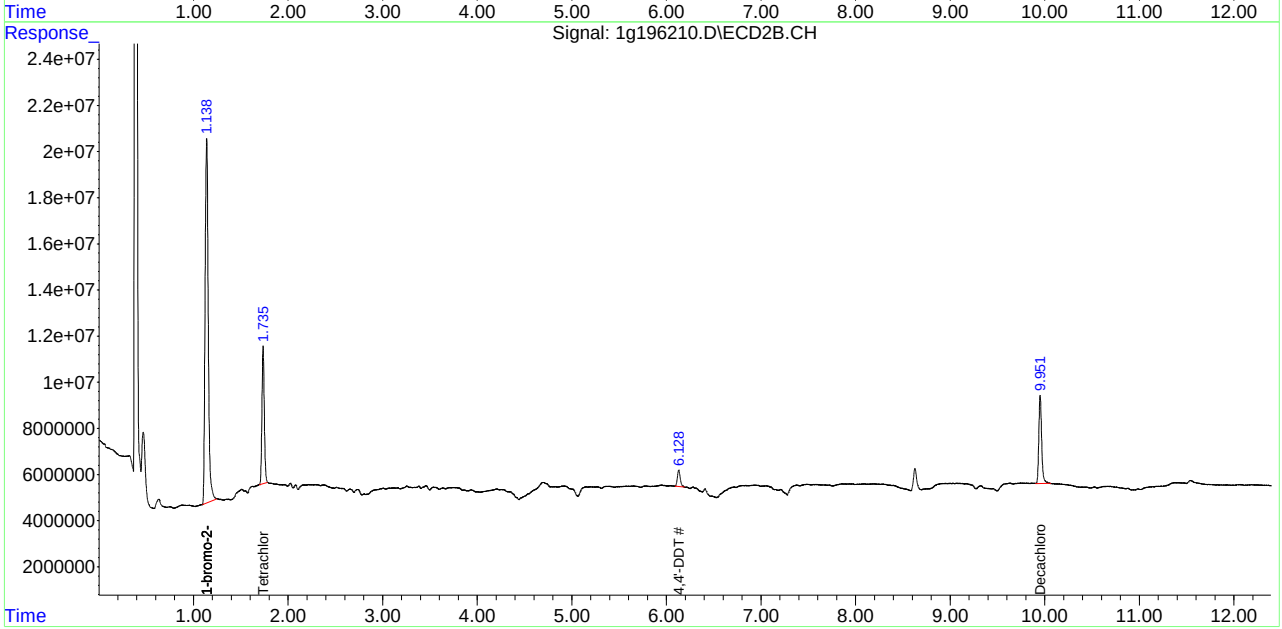
Quantitation Report (QT Reviewed)

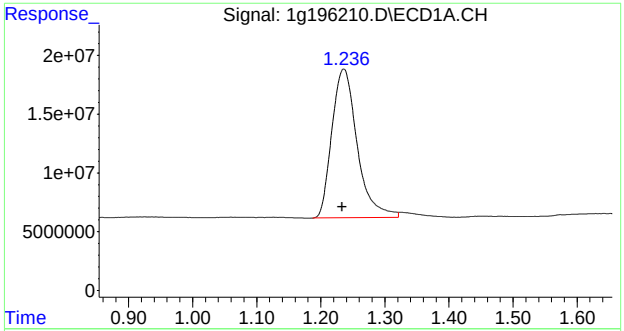
Data Path : C:\msdchem\1\data\1G7004\
Data File : 1g196210.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08 May 2024 4:14 am
Operator : christp
Sample : jd87833-17
Misc : op54399,g1g7004,250,,,2,1
ALS Vial : 56 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 15 15:07:07 2024
Quant Method : C:\msdchem\1\data\carlos\1G7004\1PST6859a.M
Quant Title : PEST/PCB
QLast Update : Wed May 08 14:18:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

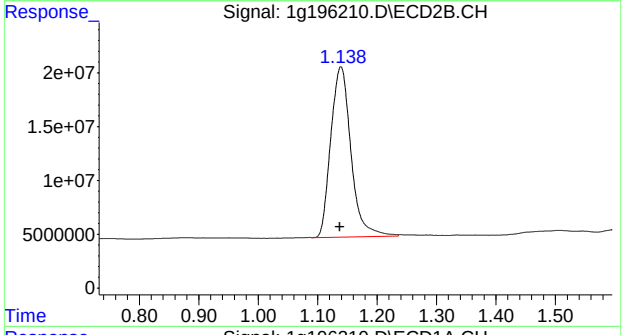






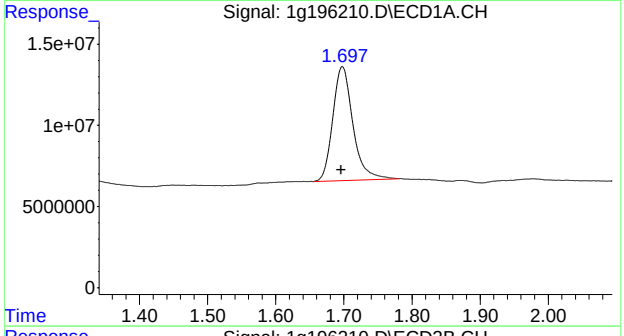
#1 1-bromo-2-nitrobenzene

R.T.: 1.236 min
Delta R.T.: 0.003 min
Response: 347923210
Conc: 50.00 PPB m



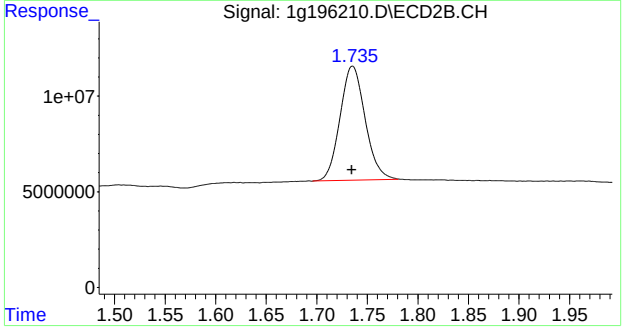
#1 1-bromo-2-nitrobenzene

R.T.: 1.138 min
Delta R.T.: 0.000 min
Response: 373410495
Conc: 50.00 PPB m



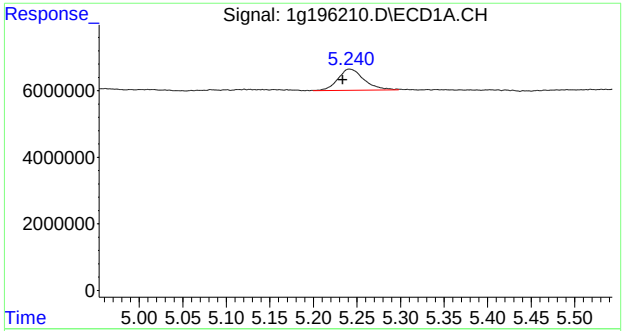
#2 Tetrachloro-m-xylene

R.T.: 1.697 min
Delta R.T.: 0.002 min
Response: 143824409
Conc: 21.59 PPB m



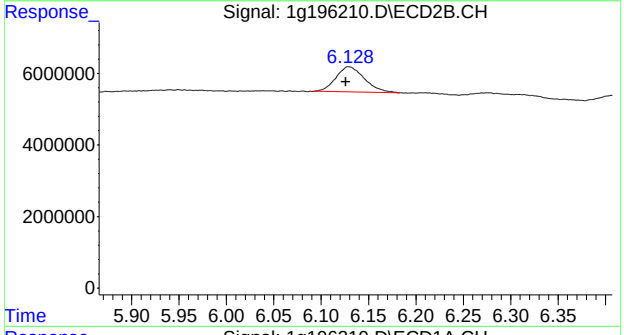
#2 Tetrachloro-m-xylene

R.T.: 1.735 min
Delta R.T.: 0.000 min
Response: 102326294
Conc: 21.88 PPB m



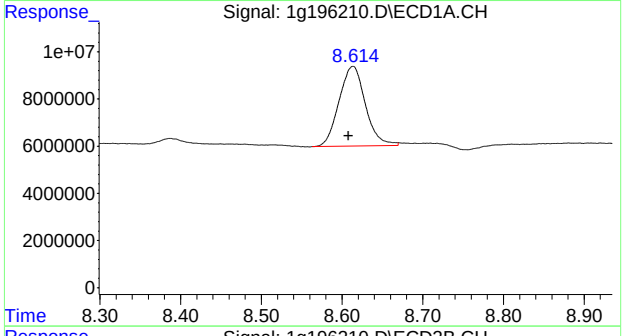
#20 4,4'-DDT

R.T.: 5.240 min
Delta R.T.: 0.007 min
Response: 13256018
Conc: 2.45 PPB m



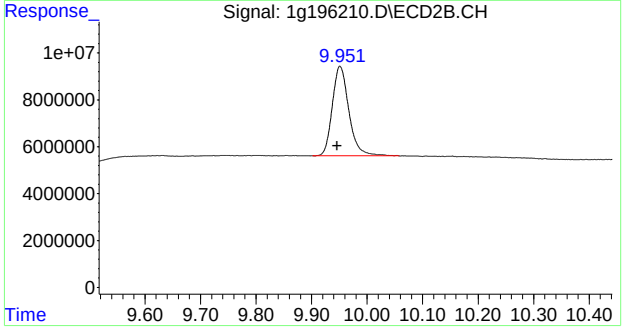
#20 4,4'-DDT

R.T.: 6.128 min
Delta R.T.: 0.002 min
Response: 14710902
Conc: 2.73 PPB m



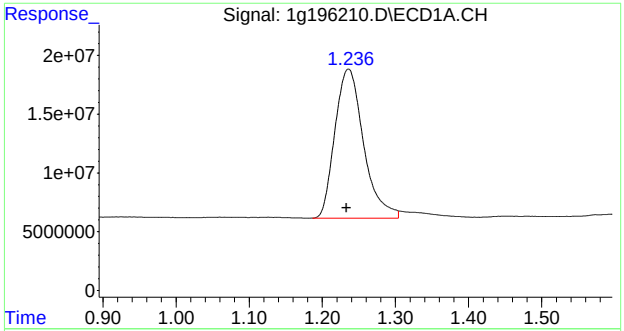
#26 Decachlorobiphenyl

R.T.: 8.614 min
Delta R.T.: 0.006 min
Response: 76495791
Conc: 11.27 PPB m



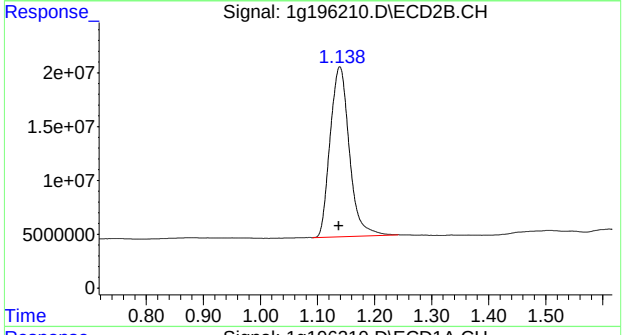
#26 Decachlorobiphenyl

R.T.: 9.951 min
Delta R.T.: 0.005 min
Response: 79080498
Conc: 9.94 PPB m



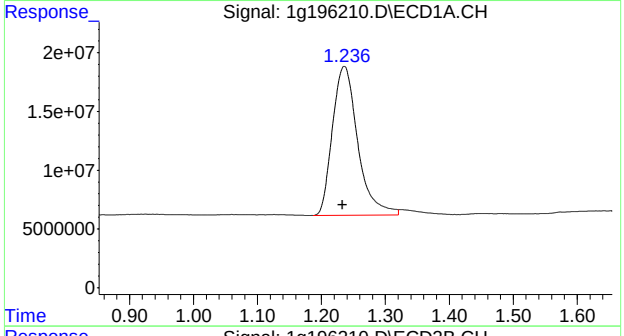
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.236 min
Delta R.T.: 0.003 min
Response: 346694568
Conc: 50.00 PPB m



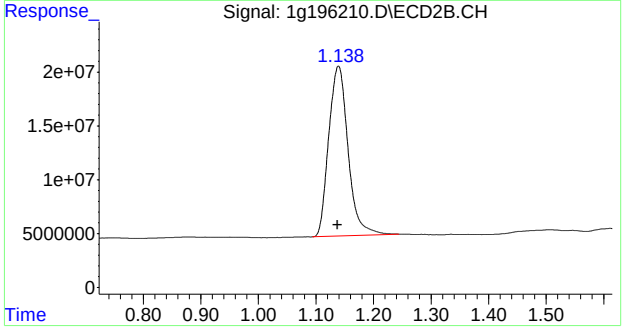
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.138 min
Delta R.T.: 0.001 min
Response: 368760768
Conc: 50.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.236 min
Delta R.T.: 0.003 min
Response: 350412494
Conc: 50.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.138 min
Delta R.T.: 0.001 min
Response: 369320207
Conc: 50.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/15/24 16:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\1G7016\
Data File : 1g196431.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 May 2024 11:49 am
Operator : mahalial
Sample : jd87833-17r (Sig #1); jd87833-17 (Sig #2)
Misc : op54554,g1g7016,300,,,2,1
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 15 14:14:19 2024
Quant Method : C:\msdchem\1\methods\1PST6859a.M
Quant Title : PEST/PCB
QLast Update : Wed May 15 14:04:07 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.232	1.137	388.9E6	389.7E6	50.000	50.000
27) I 1-bromo-2...	1.232	1.137	388.9E6	389.7E6	50.000	50.000
33) I 1-bromo-2...	1.232	1.137	388.9E6	389.7E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	1.692	1.730	262.0E6	179.9E6	35.177m	36.863m
Spiked Amount 40.000	Range 30 - 150		Recovery =		87.94%	92.16%
26) SA Decachlor...	8.612	9.965f	87254664	89638112	11.496	10.802
Spiked Amount 40.000			Recovery =		28.74%	27.01%
Target Compounds						
20) MA 4,4'-DDT	5.247	6.134	4320682	4939719	0.716m	0.879m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

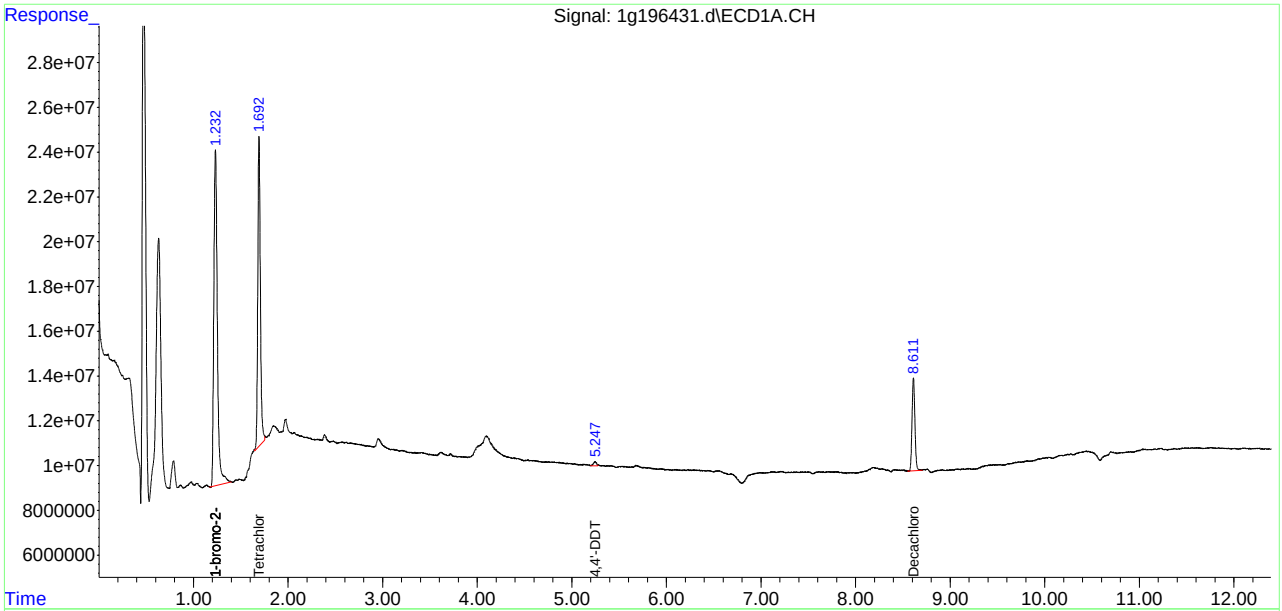
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

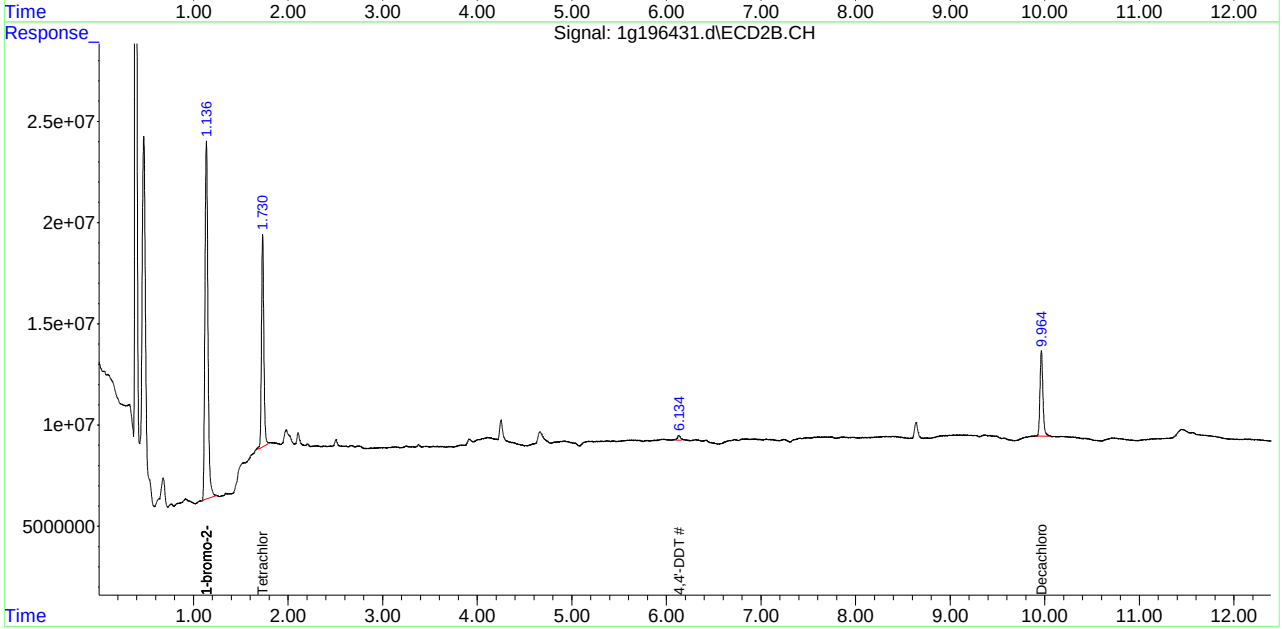
Quantitation Report (QT Reviewed)

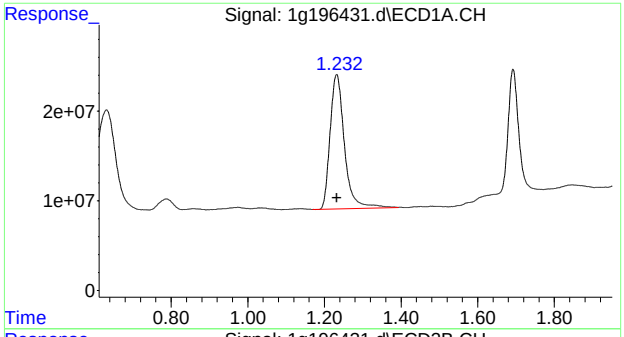
Data Path : C:\msdchem\1\data\1G7016\
Data File : 1g196431.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 15 May 2024 11:49 am
Operator : mahalial
Sample : jd87833-17r (Sig #1); jd87833-17 (Sig #2)
Misc : op54554,g1g7016,300,,,2,1
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 15 14:14:19 2024
Quant Method : C:\msdchem\1\methods\1PST6859a.M
Quant Title : PEST/PCB
QLast Update : Wed May 15 14:04:07 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

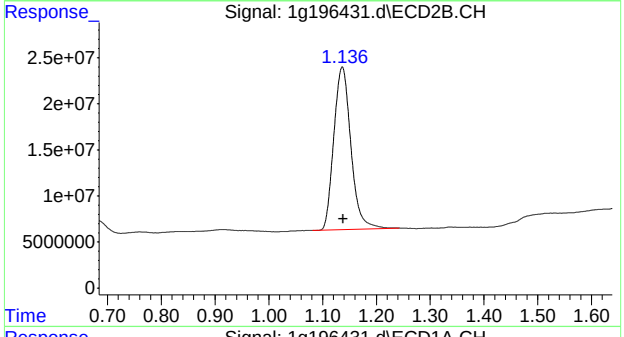






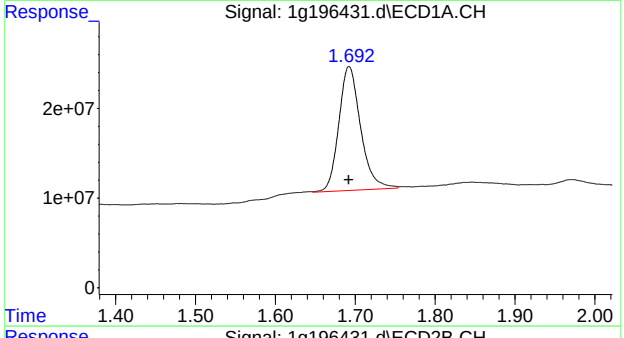
#1 1-bromo-2-nitrobenzene

R.T.: 1.232 min
Delta R.T.: 0.000 min
Response: 388933824
Conc: 50.00 PPB



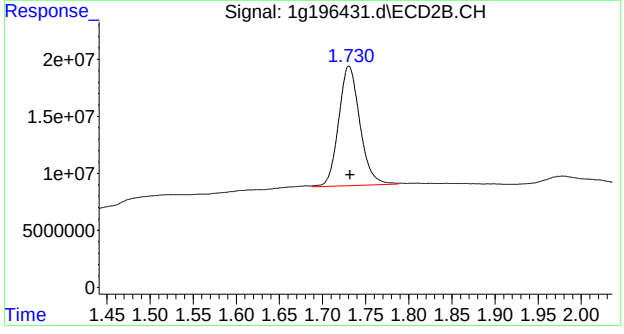
#1 1-bromo-2-nitrobenzene

R.T.: 1.137 min
Delta R.T.: 0.000 min
Response: 389651278
Conc: 50.00 PPB



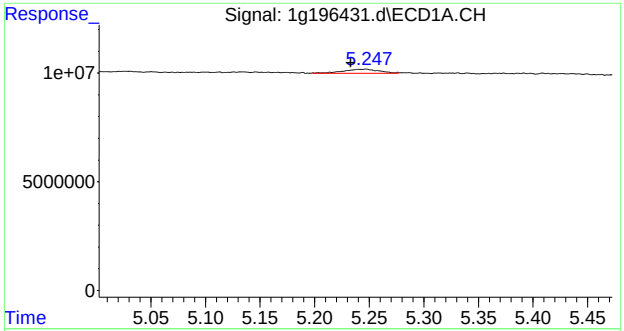
#2 Tetrachloro-m-xylene

R.T.: 1.692 min
Delta R.T.: 0.000 min
Response: 262001078
Conc: 35.18 PPB m



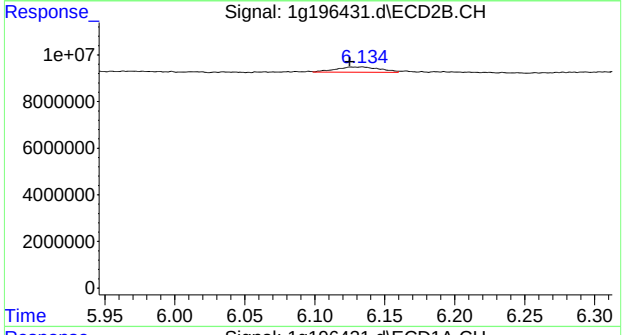
#2 Tetrachloro-m-xylene

R.T.: 1.730 min
Delta R.T.: -0.002 min
Response: 179862824
Conc: 36.86 PPB m



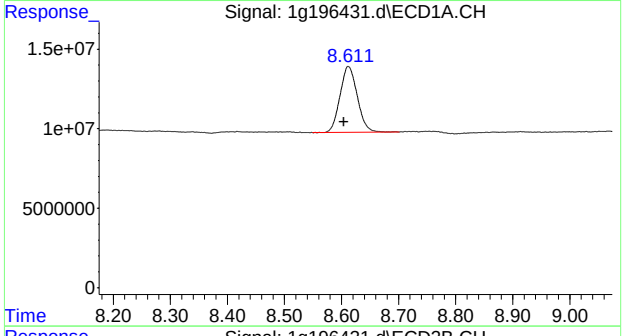
#20 4,4'-DDT

R.T.: 5.247 min
Delta R.T.: 0.014 min
Response: 4320682
Conc: 0.72 PPB m



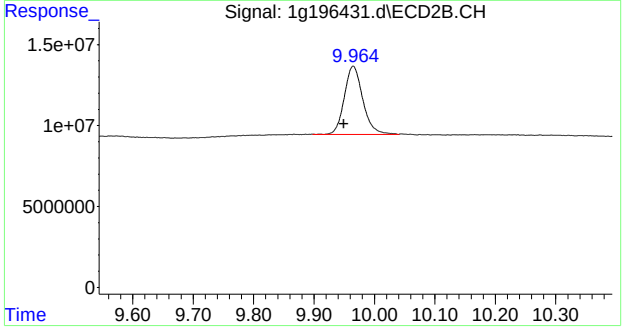
#20 4,4'-DDT

R.T.: 6.134 min
Delta R.T.: 0.009 min
Response: 4939719
Conc: 0.88 PPB m



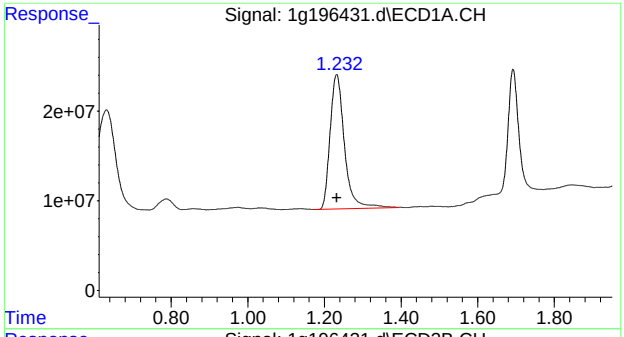
#26 Decachlorobiphenyl

R.T.: 8.612 min
Delta R.T.: 0.008 min
Response: 87254664
Conc: 11.50 PPB



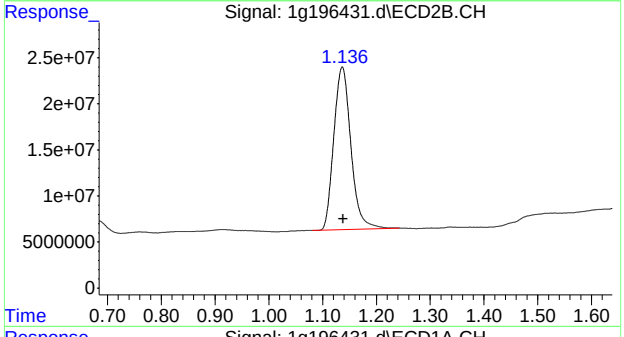
#26 Decachlorobiphenyl

R.T.: 9.965 min
Delta R.T.: 0.016 min
Response: 89638112
Conc: 10.80 PPB



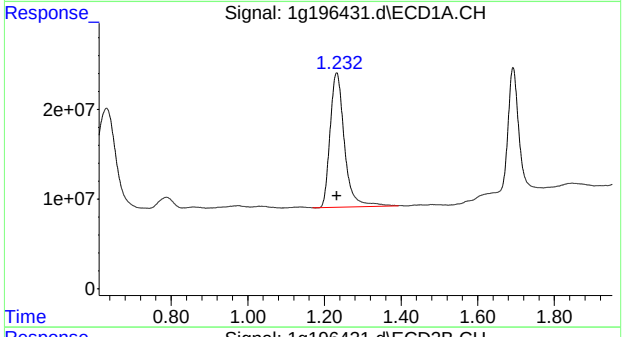
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.232 min
Delta R.T.: 0.000 min
Response: 388933824
Conc: 50.00 PPB



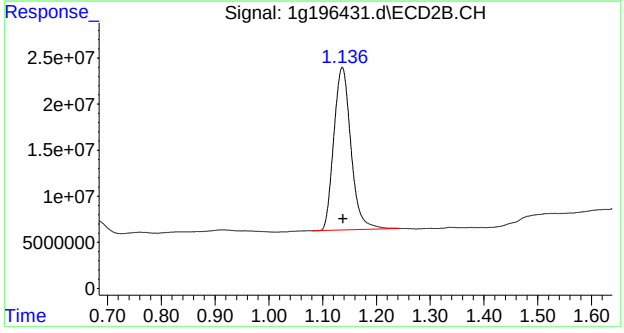
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.137 min
Delta R.T.: 0.000 min
Response: 389651278
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.232 min
Delta R.T.: 0.000 min
Response: 388933824
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.137 min
Delta R.T.: 0.000 min
Response: 389651278
Conc: 50.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco
05/09/24 01:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianaf\3G5173\
Data File : 3G141341.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08-May-24, 04:26:44
Operator : christp
Sample : jd87833-17
Misc : op54400,g3g5173,250,,,2,1
ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 08 14:23:00 2024
Quant Method : C:\msdchem\1\data\marianaf\3G5173\3PCB5160.M
Quant Title :
QLast Update : Tue May 07 06:14:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.471	4.079	145.3E6	333.1E6	18.389	18.339
	Spiked Amount 40.000			Recovery	=	45.97%	45.85%
51) S	Decachlor...	10.971	12.589	50861939	104.6E6	7.643m	7.143m
	Spiked Amount 40.000			Recovery	=	19.11%	17.86%
	Target Compounds						

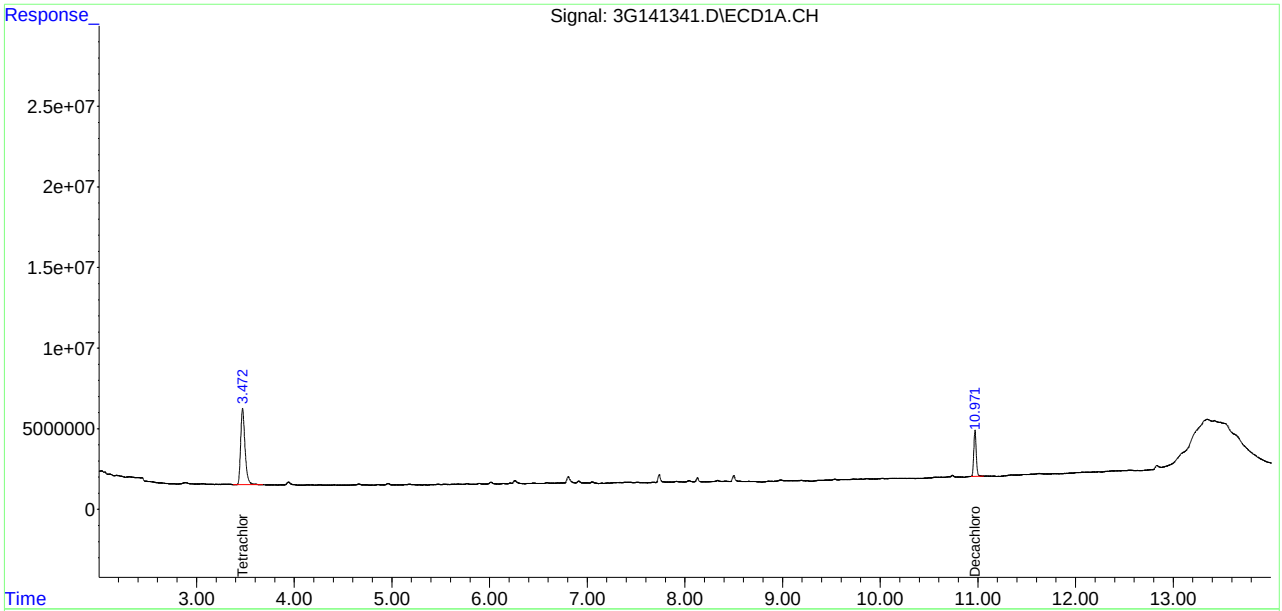
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

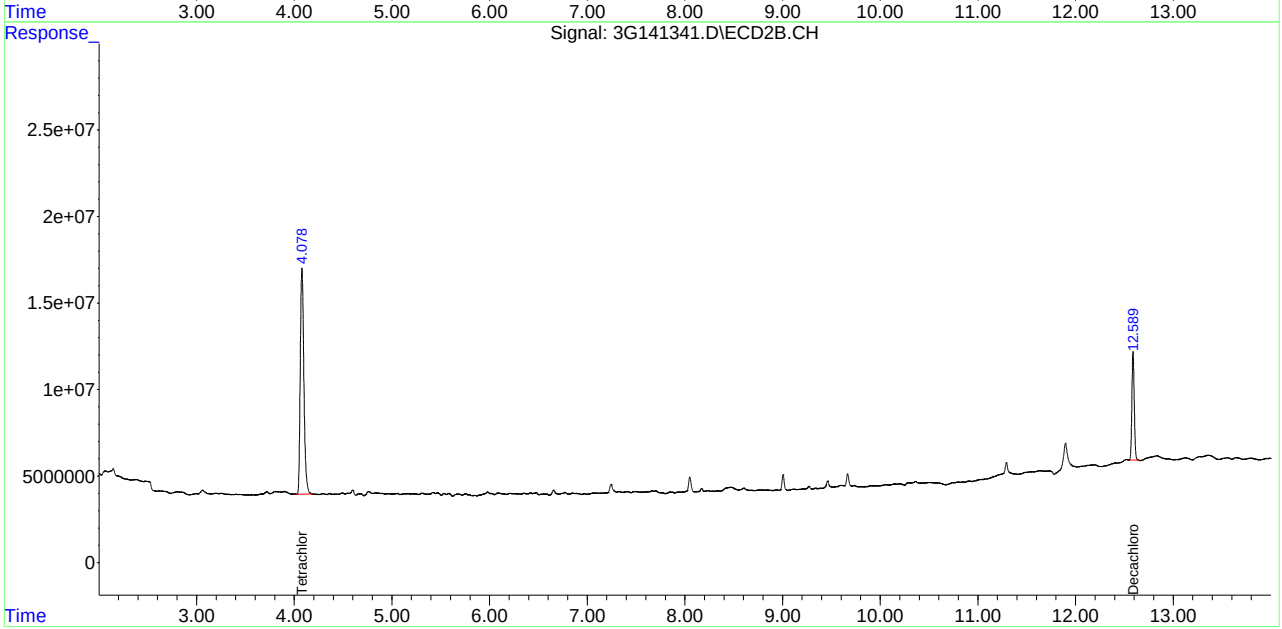
Quantitation Report (QT Reviewed)

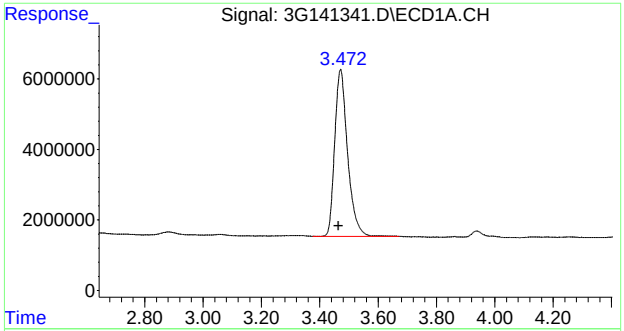
Data Path : C:\msdchem\1\data\marianaf\3G5173\
Data File : 3G141341.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08-May-24, 04:26:44
Operator : christp
Sample : jd87833-17
Misc : op54400,g3g5173,250,,,2,1
ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 08 14:23:00 2024
Quant Method : C:\msdchem\1\data\marianaf\3G5173\3PCB5160.M
Quant Title :
QLast Update : Tue May 07 06:14:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

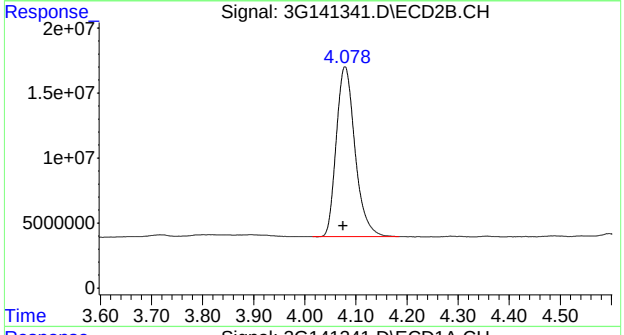






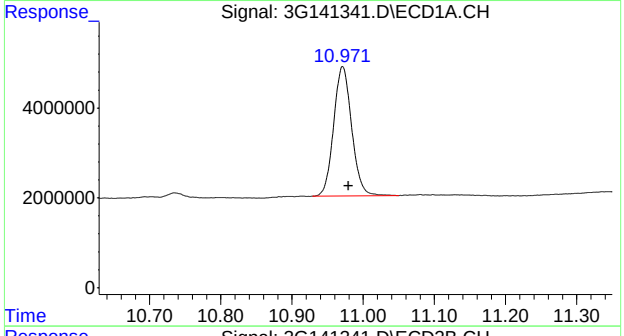
#1 Tetrachloro-m-xylene

R.T.: 3.471 min
Delta R.T.: 0.007 min
Response: 145279621
Conc: 18.39 ppb



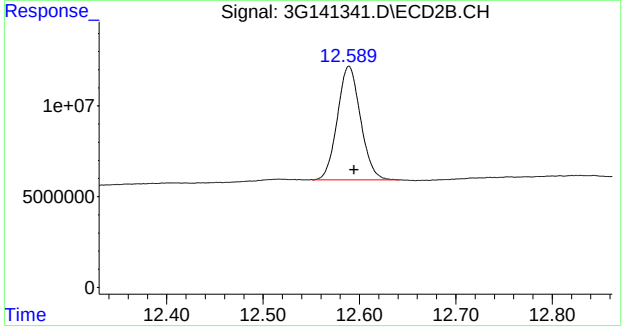
#1 Tetrachloro-m-xylene

R.T.: 4.079 min
Delta R.T.: 0.004 min
Response: 333053580
Conc: 18.34 ppb



#51 Decachlorobiphenyl

R.T.: 10.971 min
Delta R.T.: -0.008 min
Response: 50861939
Conc: 7.64 ppb m



#51 Decachlorobiphenyl

R.T.: 12.589 min
Delta R.T.: -0.006 min
Response: 104583787
Conc: 7.14 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/24 15:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\G8G2470\
Data File : 8g56351.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 6:24 am
Operator : christp
Sample : jd87833-1 m
Misc : op54452,g8g2470,5.3,,,10,1
ALS Vial : 75 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 10:31:18 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.458	4.908	892.4E6	1071.5E6	5.000	5.000
27)	I 1-bromo-2...	4.458	4.908	892.4E6	1071.5E6	5.000	5.000
33)	I 1-bromo-2...	4.458	4.908	892.4E6	1071.5E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.067	5.730	598.3E6	1050.3E6	3.216	3.331m
	Spiked Amount 40.000	Range 30 - 150		Recovery =		8.04%#	8.33%#
26)	SA Decachlor...	12.041	14.183	436.2E6	512.5E6	2.174m	3.432m#
	Spiked Amount 40.000			Recovery =		5.43%	8.58%
	Target Compounds						
11)	B Heptachlo...	7.229	8.564	32595014	44917929	0.164m	0.132m
13)	B alpha-Chl...	7.523f	9.062	99077151	57330931	0.449m	0.181m#
15)	B 4,4'-DDE	7.656f	9.326	217.4E6	308.7E6	1.030m	0.945m
16)	MA Dieldrin	8.009	9.573	47338321	56538086	0.207m	0.162m
18)	A 4,4'-DDD	8.434f	10.251	86804397	160.8E6	0.562m	0.594m
20)	MA 4,4'-DDT	8.828f	10.772	89043309	165.0E6	0.508m	0.843m#
	SemiQuant Compounds - Not Calibrated on this Instrument						

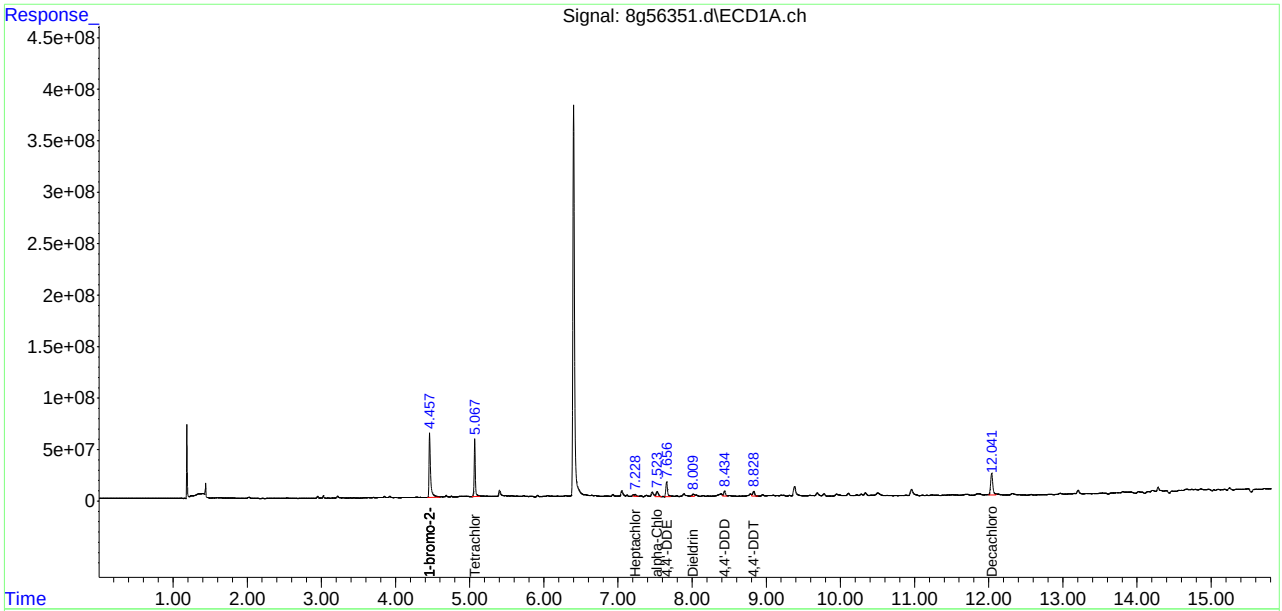
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

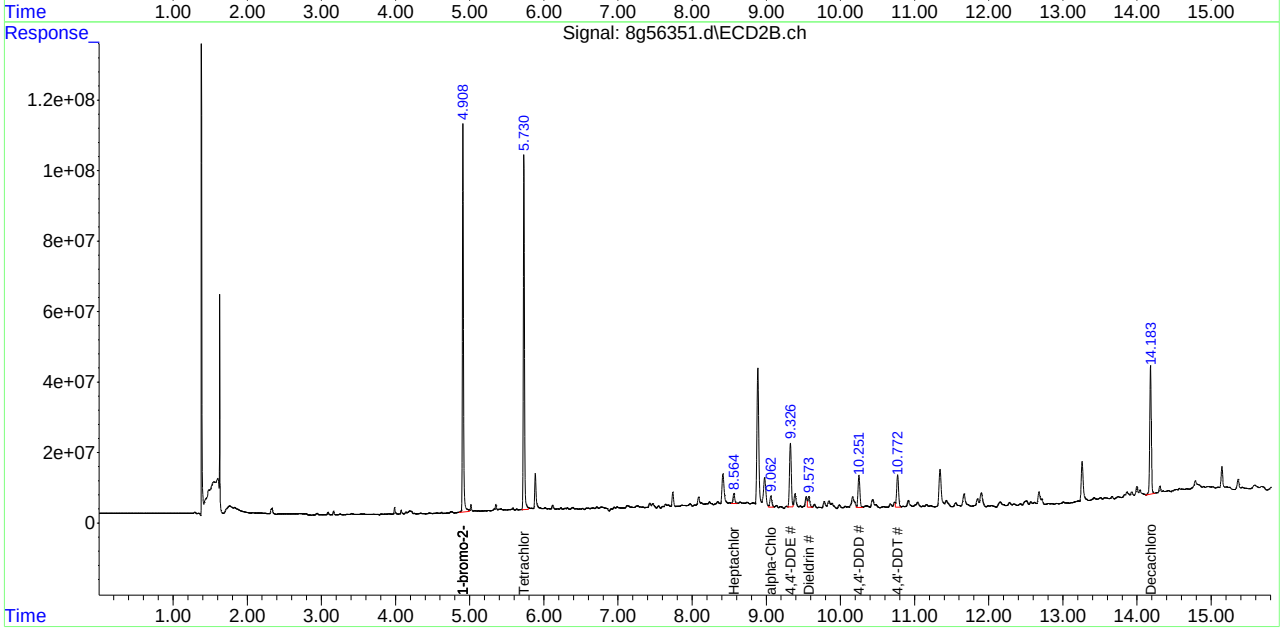
Quantitation Report (QT Reviewed)

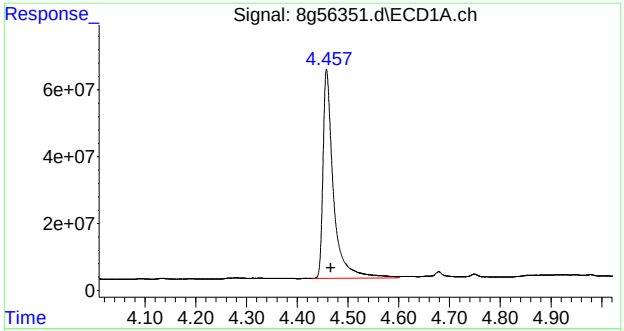
Data Path : C:\msdchem\1\data\G8G2470\
Data File : 8g56351.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 6:24 am
Operator : christp
Sample : jd87833-1 m
Misc : op54452,g8g2470,5.3,,,10,1
ALS Vial : 75 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 10:31:18 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

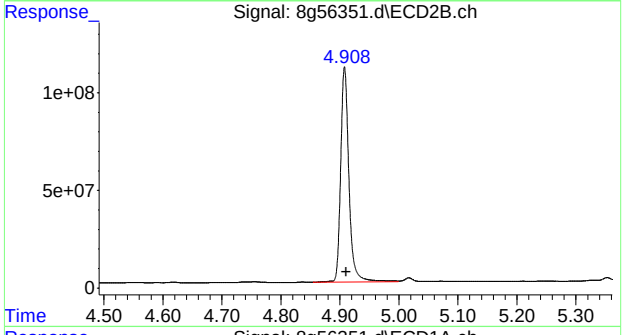






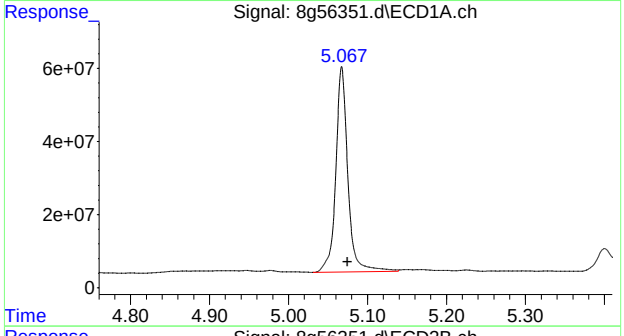
#1 1-bromo-2-nitrobenzene

R.T.: 4.458 min
Delta R.T.: -0.008 min
Response: 892443921
Conc: 5.00 PPB



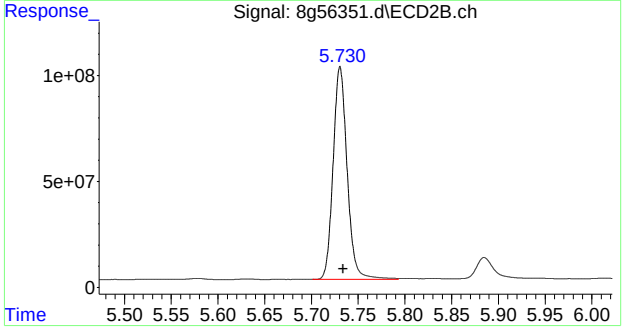
#1 1-bromo-2-nitrobenzene

R.T.: 4.908 min
Delta R.T.: -0.002 min
Response: 1071450736
Conc: 5.00 PPB



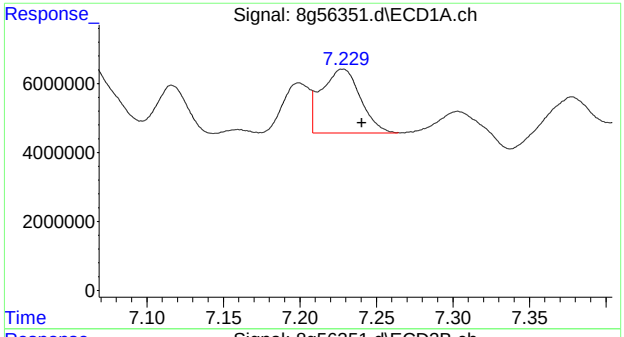
#2 Tetrachloro-m-xylene

R.T.: 5.067 min
Delta R.T.: -0.007 min
Response: 598287440
Conc: 3.22 PPB



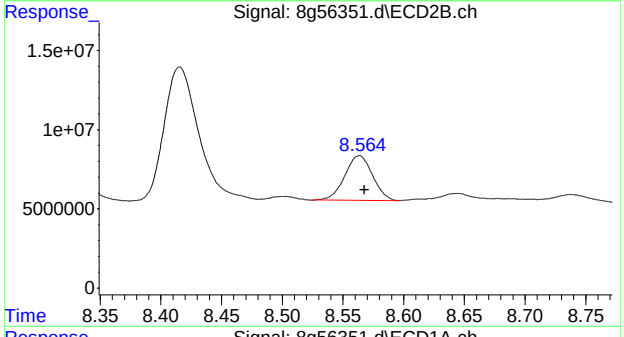
#2 Tetrachloro-m-xylene

R.T.: 5.730 min
Delta R.T.: -0.003 min
Response: 1050340072
Conc: 3.33 PPB m



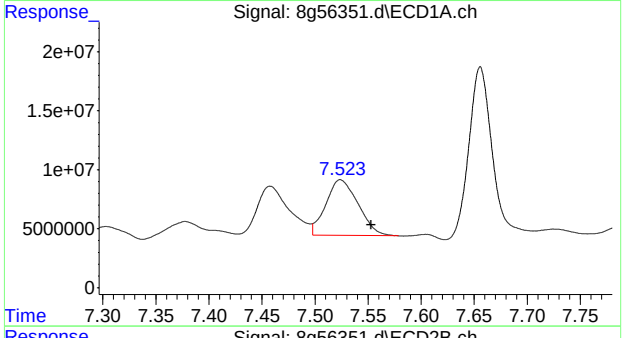
#11 Heptachlor Epoxide

R.T.: 7.229 min
Delta R.T.: -0.012 min
Response: 32595014
Conc: 0.16 PPB m



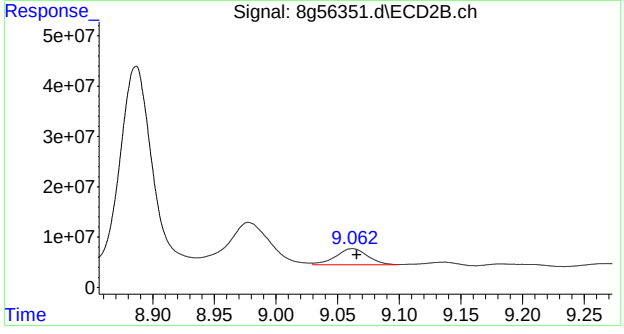
#11 Heptachlor Epoxide

R.T.: 8.564 min
Delta R.T.: -0.004 min
Response: 44917929
Conc: 0.13 PPB m



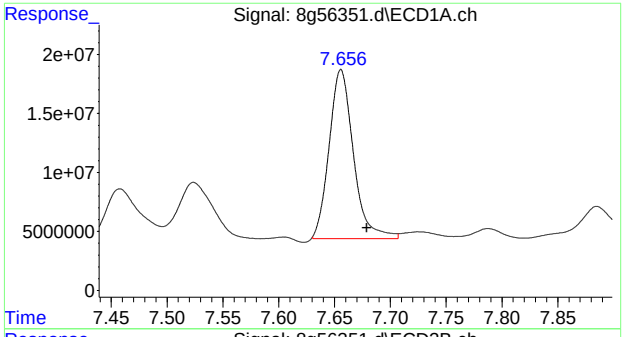
#13 alpha-Chlordane

R.T.: 7.523 min
Delta R.T.: -0.030 min
Response: 99077151
Conc: 0.45 PPB m



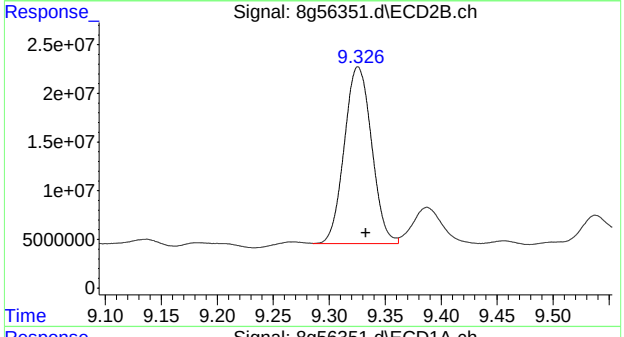
#13 alpha-Chlordane

R.T.: 9.062 min
Delta R.T.: -0.004 min
Response: 57330931
Conc: 0.18 PPB m



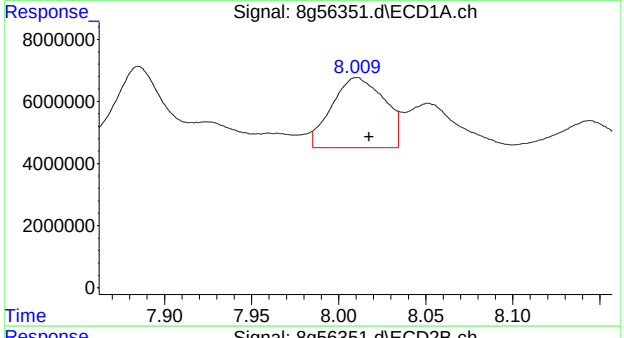
#15 4,4'-DDE

R.T.: 7.656 min
Delta R.T.: -0.023 min
Response: 217377688
Conc: 1.03 PPB m



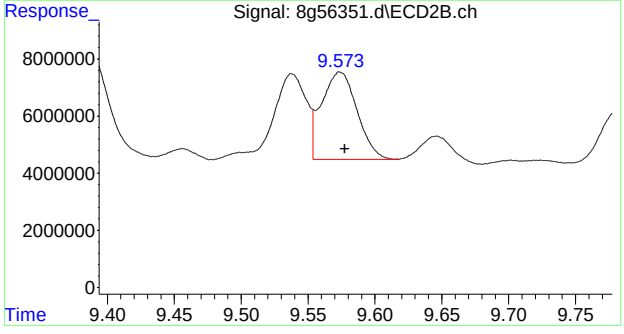
#15 4,4'-DDE

R.T.: 9.326 min
Delta R.T.: -0.006 min
Response: 308678860
Conc: 0.95 PPB m



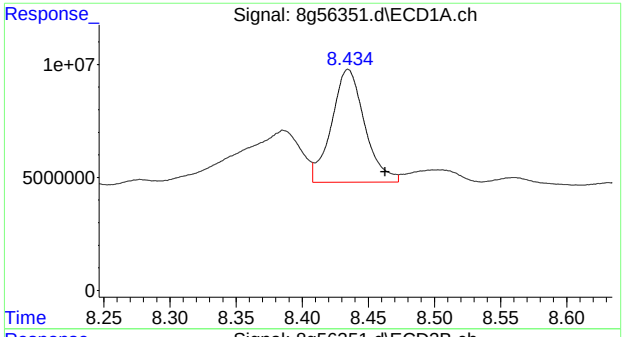
#16 Dieldrin

R.T.: 8.009 min
Delta R.T.: -0.008 min
Response: 47338321
Conc: 0.21 PPB m



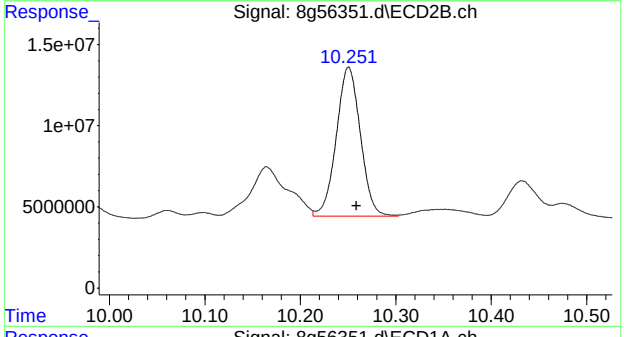
#16 Dieldrin

R.T.: 9.573 min
Delta R.T.: -0.005 min
Response: 56538086
Conc: 0.16 PPB m



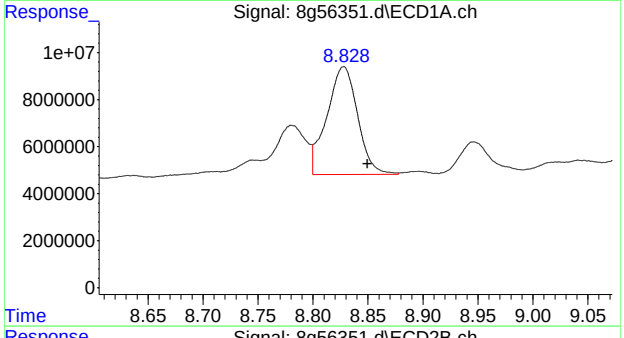
#18 4,4'-DDD

R.T.: 8.434 min
Delta R.T.: -0.028 min
Response: 86804397
Conc: 0.56 PPB m



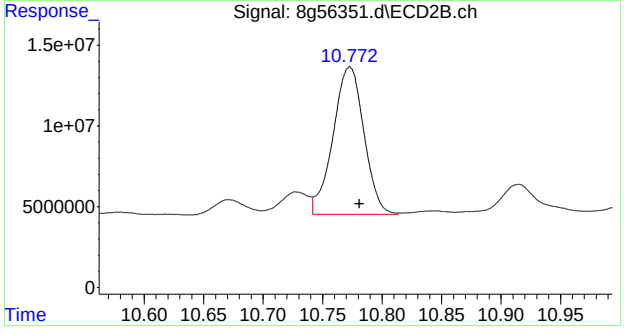
#18 4,4'-DDD

R.T.: 10.251 min
Delta R.T.: -0.008 min
Response: 160796740
Conc: 0.59 PPB m



#20 4,4'-DDT

R.T.: 8.828 min
Delta R.T.: -0.021 min
Response: 89043309
Conc: 0.51 PPB m

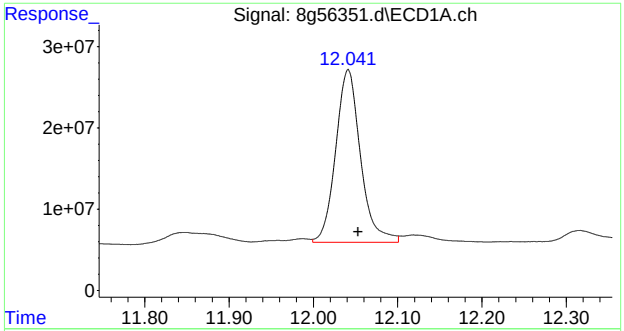


#20 4,4'-DDT

R.T.: 10.772 min
Delta R.T.: -0.008 min
Response: 164956039
Conc: 0.84 PPB m

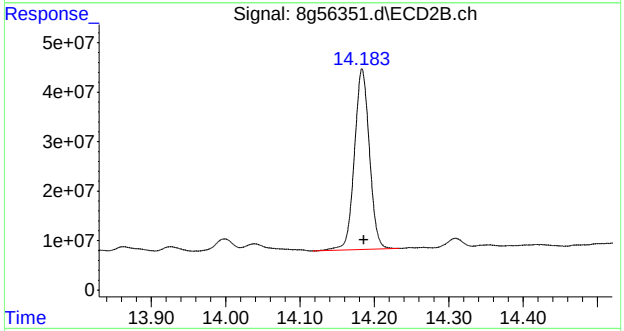
9.1.4

9



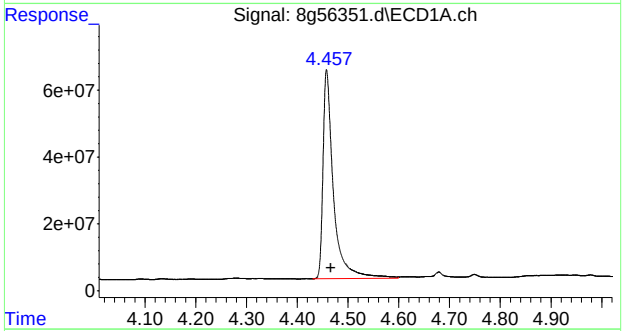
#26 Decachlorobiphenyl

R.T.: 12.041 min
Delta R.T.: -0.012 min
Response: 436196387
Conc: 2.17 PPB m



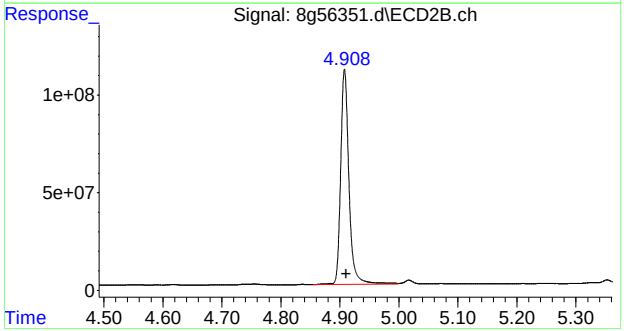
#26 Decachlorobiphenyl

R.T.: 14.183 min
Delta R.T.: -0.003 min
Response: 512457002
Conc: 3.43 PPB m



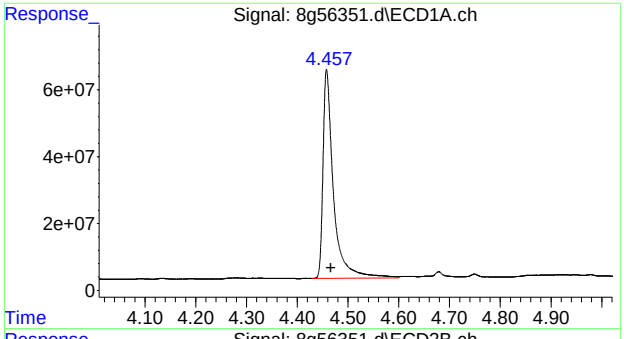
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.458 min
Delta R.T.: -0.008 min
Response: 892443921
Conc: 5.00 PPB



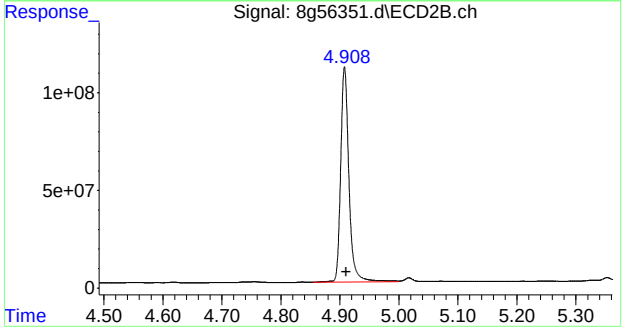
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.908 min
Delta R.T.: -0.002 min
Response: 1071450736
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.458 min
Delta R.T.: -0.008 min
Response: 892443921
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.908 min
Delta R.T.: -0.002 min
Response: 1071450736
Conc: 5.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
05/09/24 15:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56352.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 6:46 am
Operator : christp
Sample : jd87833-3 m
Misc : op54452,g8g2470,5.4,,,10,1
ALS Vial : 76 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 15:35:57 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.457	4.908	613.2E6	901.2E6	5.000	5.000m
27)	I 1-bromo-2...	4.457	4.908	613.2E6	901.4E6	5.000	5.000m
33)	I 1-bromo-2...	4.457	4.908	613.2E6	901.1E6	5.000	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.068	5.731	493.6E6	890.0E6	3.863m	3.356m
	Spiked Amount 40.000	Range 30 - 150		Recovery =		9.66%#	8.39%#
26)	SA Decachlor...	12.042	14.183	305.7E6	639.8E6	2.217m	5.094m#
	Spiked Amount 40.000			Recovery =		5.54%	12.74%
	Target Compounds						
7)	B beta-BHC	5.903	6.896	85678795	9262804	1.028m	0.060m#
11)	B Heptachlo...	7.227	8.566	44857830	24182043	0.329m	0.084m#
12)	B gamma-Chl...	7.382f	8.844	54239258	69811453	0.337m	0.242m#
13)	B alpha-Chl...	7.541	9.061	90046224	125.4E6	0.595m	0.471m
15)	B 4,4'-DDE	7.656f	9.324	47094904	59492806	0.325m	0.217m#
16)	MA Dieldrin	8.008	9.560f	8647877	41269704	0.055m	0.141m#
18)	A 4,4'-DDD	8.433f	10.248	46976681	86368294	0.443m	0.379m
20)	MA 4,4'-DDT	8.823f	10.772	115.1E6	90085252	0.957m	0.547m#
	SemiQuant Compounds - Not Calibrated on this Instrument						

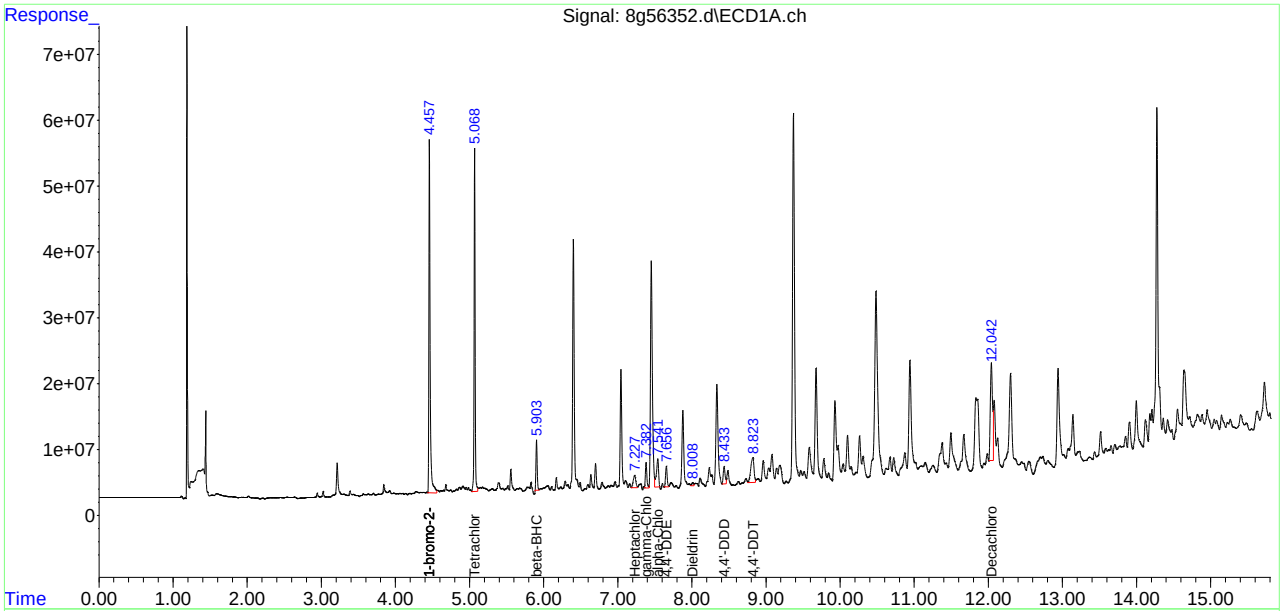
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

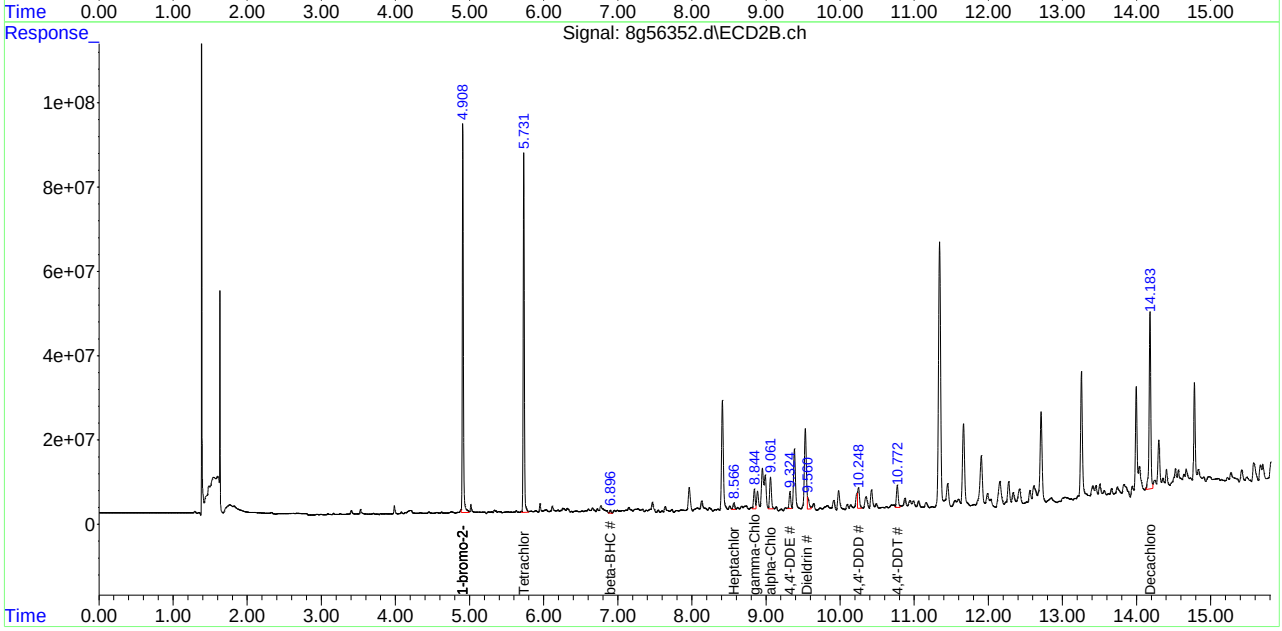
Quantitation Report (QT Reviewed)

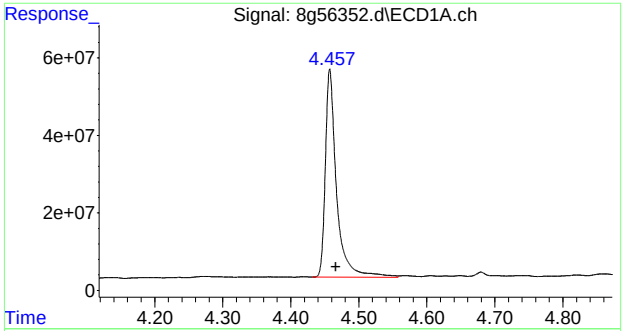
Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56352.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 6:46 am
Operator : christp
Sample : jd87833-3 m
Misc : op54452,g8g2470,5.4,,,10,1
ALS Vial : 76 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 15:35:57 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

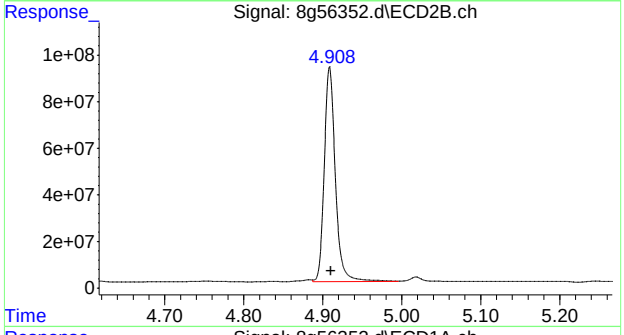






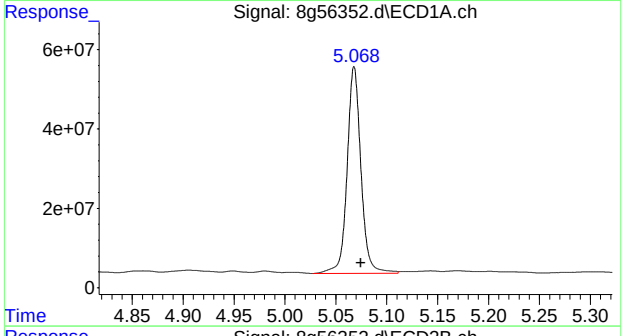
#1 1-bromo-2-nitrobenzene

R.T.: 4.457 min
Delta R.T.: -0.009 min
Response: 613152319
Conc: 5.00 PPB



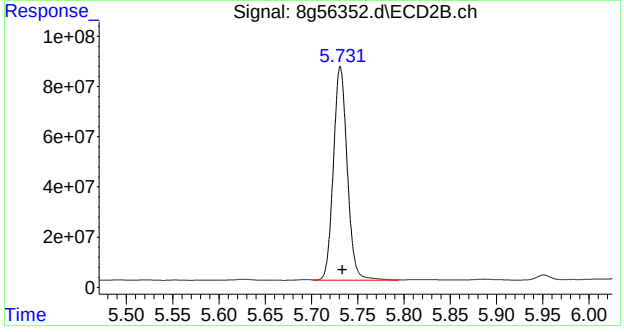
#1 1-bromo-2-nitrobenzene

R.T.: 4.908 min
Delta R.T.: -0.002 min
Response: 901151787
Conc: 5.00 PPB m



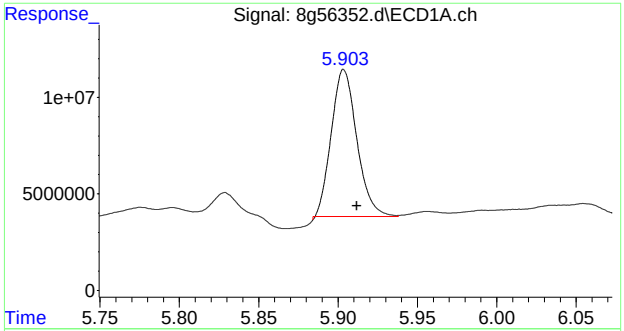
#2 Tetrachloro-m-xylene

R.T.: 5.068 min
Delta R.T.: -0.007 min
Response: 493639850
Conc: 3.86 PPB m



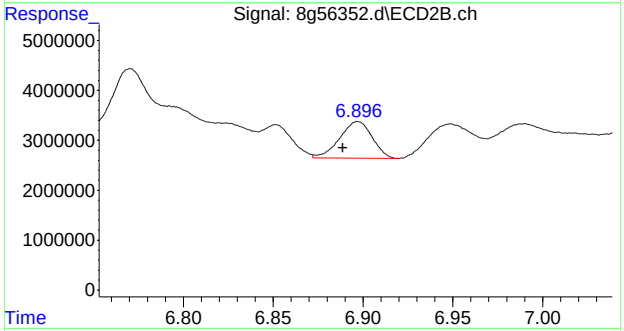
#2 Tetrachloro-m-xylene

R.T.: 5.731 min
Delta R.T.: -0.003 min
Response: 890028561
Conc: 3.36 PPB m



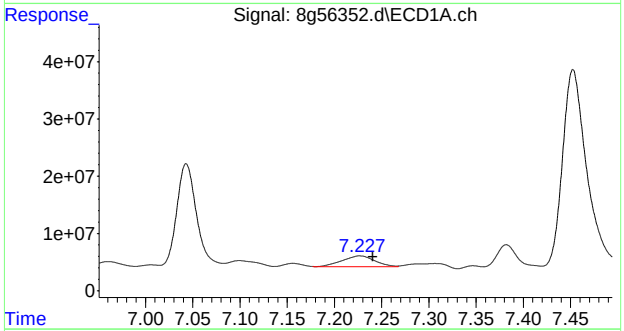
#7 beta-BHC

R.T.: 5.903 min
Delta R.T.: -0.009 min
Response: 85678795
Conc: 1.03 PPB m



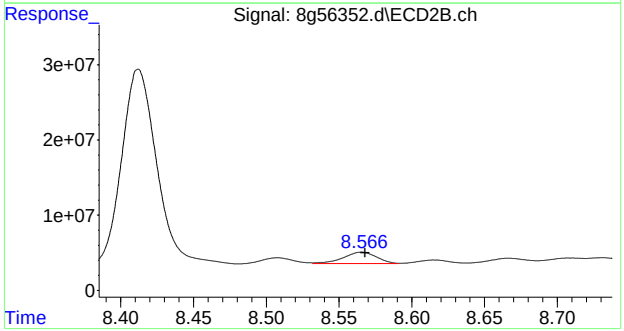
#7 beta-BHC

R.T.: 6.896 min
Delta R.T.: 0.007 min
Response: 9262804
Conc: 0.06 PPB m



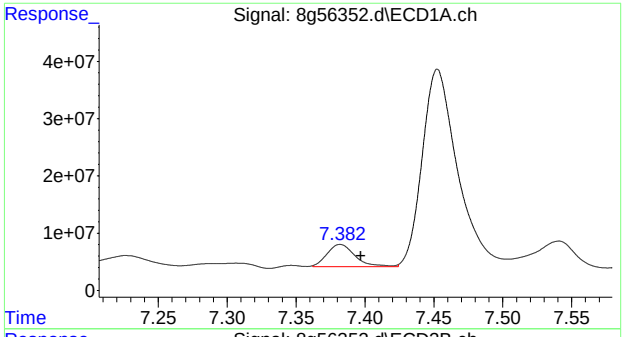
#11 Heptachlor Epoxide

R.T.: 7.227 min
Delta R.T.: -0.014 min
Response: 44857830
Conc: 0.33 PPB m



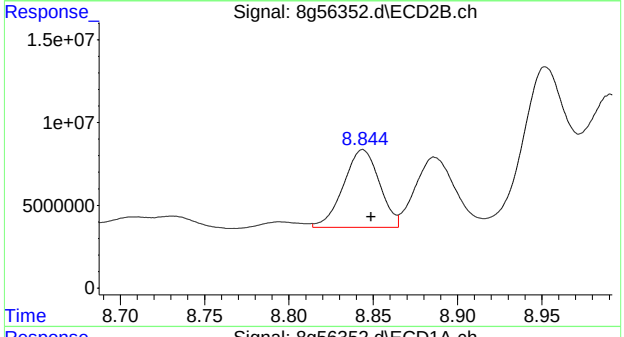
#11 Heptachlor Epoxide

R.T.: 8.566 min
Delta R.T.: -0.002 min
Response: 24182043
Conc: 0.08 PPB m



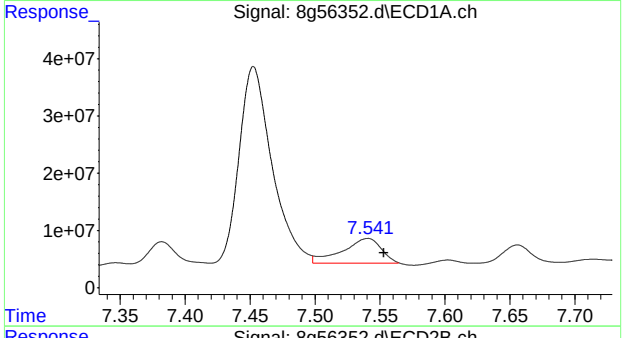
#12 gamma-Chlordane

R.T.: 7.382 min
Delta R.T.: -0.015 min
Response: 54239258
Conc: 0.34 PPB m



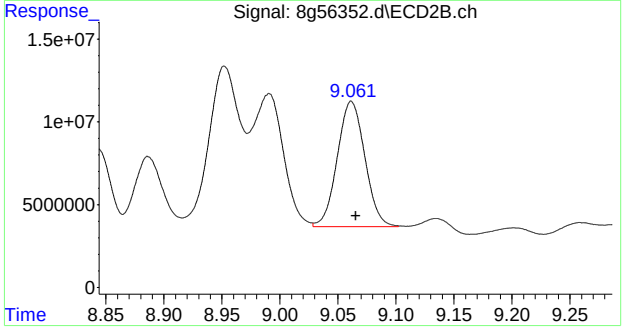
#12 gamma-Chlordane

R.T.: 8.844 min
Delta R.T.: -0.005 min
Response: 69811453
Conc: 0.24 PPB m



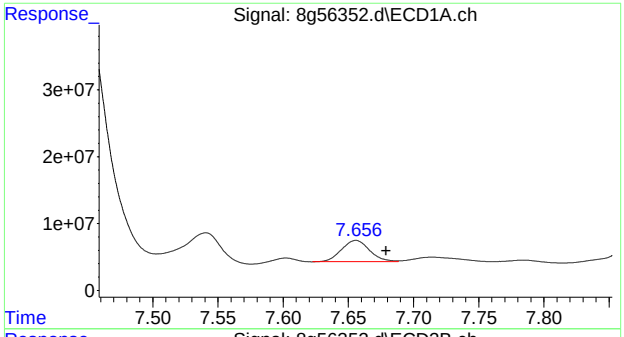
#13 alpha-Chlordane

R.T.: 7.541 min
Delta R.T.: -0.012 min
Response: 90046224
Conc: 0.59 PPB m



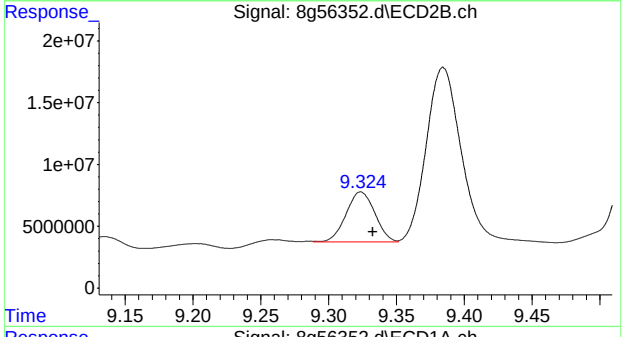
#13 alpha-Chlordane

R.T.: 9.061 min
Delta R.T.: -0.005 min
Response: 125358894
Conc: 0.47 PPB m



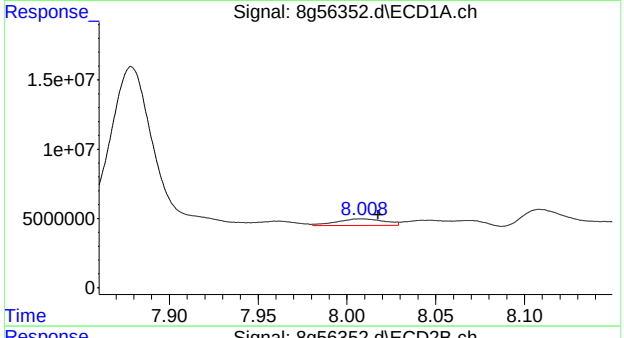
#15 4,4'-DDE

R.T.: 7.656 min
Delta R.T.: -0.023 min
Response: 47094904
Conc: 0.32 PPB m



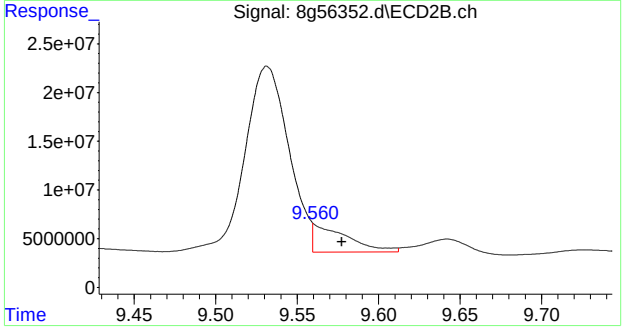
#15 4,4'-DDE

R.T.: 9.324 min
Delta R.T.: -0.009 min
Response: 59492806
Conc: 0.22 PPB m



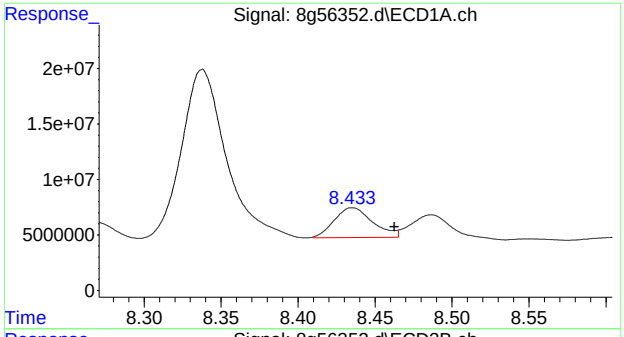
#16 Dieldrin

R.T.: 8.008 min
Delta R.T.: -0.009 min
Response: 8647877
Conc: 0.06 PPB m



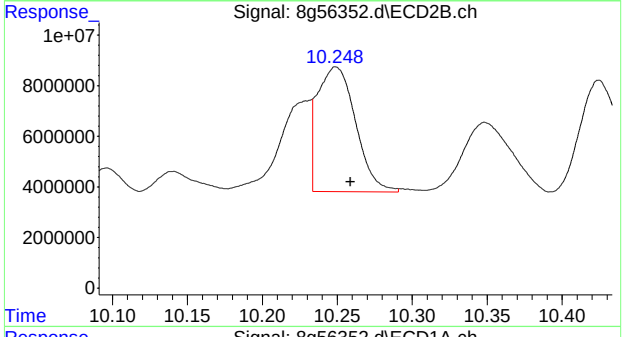
#16 Dieldrin

R.T.: 9.560 min
Delta R.T.: -0.018 min
Response: 41269704
Conc: 0.14 PPB m



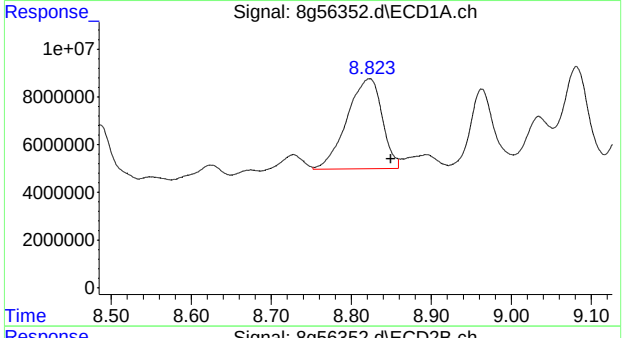
#18 4,4'-DDD

R.T.: 8.433 min
Delta R.T.: -0.029 min
Response: 46976681
Conc: 0.44 PPB m



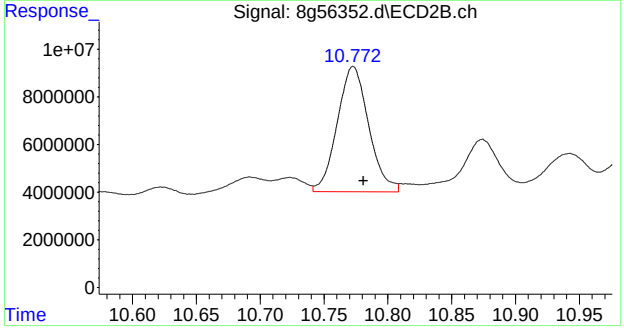
#18 4,4'-DDD

R.T.: 10.248 min
Delta R.T.: -0.010 min
Response: 86368294
Conc: 0.38 PPB m



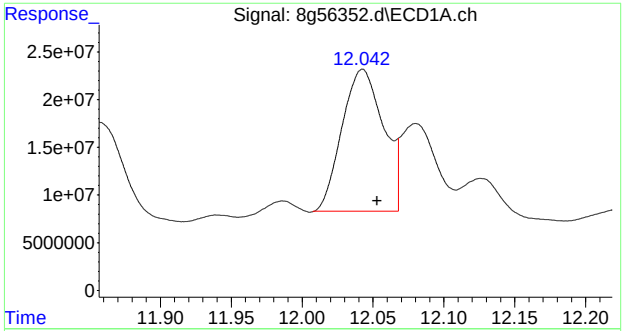
#20 4,4'-DDT

R.T.: 8.823 min
Delta R.T.: -0.027 min
Response: 115135631
Conc: 0.96 PPB m



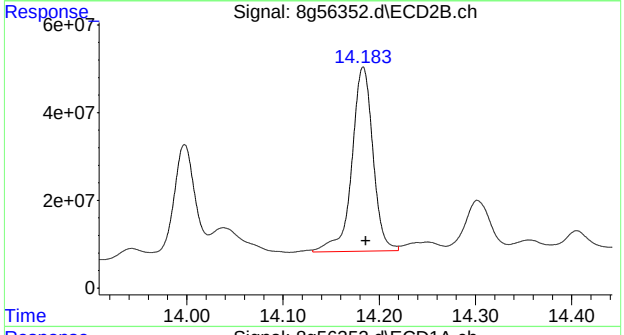
#20 4,4'-DDT

R.T.: 10.772 min
Delta R.T.: -0.009 min
Response: 90085252
Conc: 0.55 PPB m



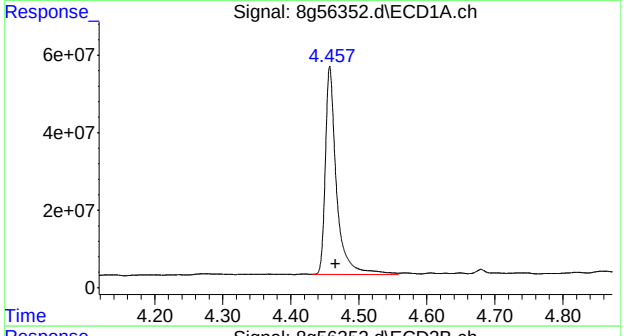
#26 Decachlorobiphenyl

R.T.: 12.042 min
Delta R.T.: -0.011 min
Response: 305655989
Conc: 2.22 PPB m



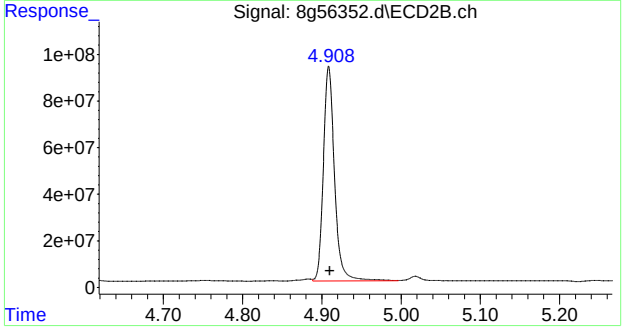
#26 Decachlorobiphenyl

R.T.: 14.183 min
Delta R.T.: -0.002 min
Response: 639818521
Conc: 5.09 PPB m



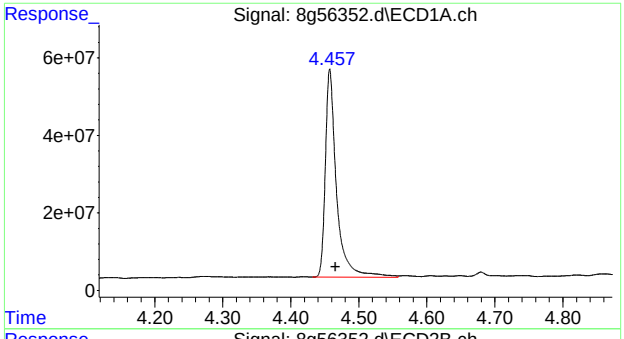
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.457 min
Delta R.T.: -0.008 min
Response: 613152319
Conc: 5.00 PPB



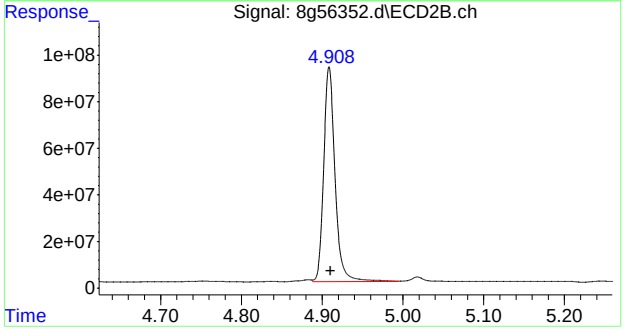
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.908 min
Delta R.T.: -0.002 min
Response: 901434411
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.457 min
Delta R.T.: -0.008 min
Response: 613152319
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.908 min
Delta R.T.: -0.002 min
Response: 901104499
Conc: 5.00 PPB m

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
05/09/24 15:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56353.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 7:08 am
Operator : christp
Sample : jd87833-4 m
Misc : op54452,g8g2470,5.4,,,10,1
ALS Vial : 77 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 14:46:34 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.460	4.912	792.3E6	1026.0E6	5.000	5.000
27)	I 1-bromo-2...	4.460	4.912	792.3E6	1026.0E6	5.000	5.000
33)	I 1-bromo-2...	4.460	4.912	792.3E6	1026.0E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.072	5.736	493.9E6	909.2E6	2.991m	3.011
	Spiked Amount 40.000	Range 30 - 150		Recovery =		7.48%#	7.53%#
26)	SA Decachlor...	12.044	14.183	316.4E6	642.0E6	1.776m	4.490m#
	Spiked Amount 40.000			Recovery =		4.44%	11.23%
	Target Compounds						
7)	B beta-BHC	5.909	6.903	100.2E6	11941228	0.930	0.068 #
11)	B Heptachlo...	7.231	8.569	37451643	36566488	0.213m	0.112m#
12)	B gamma-Chl...	7.386	8.846	55951401	71421441	0.269m	0.217m
13)	B alpha-Chl...	7.545	9.066	115.6E6	177.5E6	0.591	0.585
15)	B 4,4'-DDE	7.662f	9.326	24295070	20496617	0.130m	0.066m#
16)	MA Dieldrin	8.010	9.574	19825702	44169523	0.098m	0.132m#
18)	A 4,4'-DDD	8.438f	10.248	39305089	48777871	0.287m	0.188m#
20)	MA 4,4'-DDT	8.815f	10.776	74614367	47229218	0.480m	0.252m#
	SemiQuant Compounds - Not Calibrated on this Instrument						

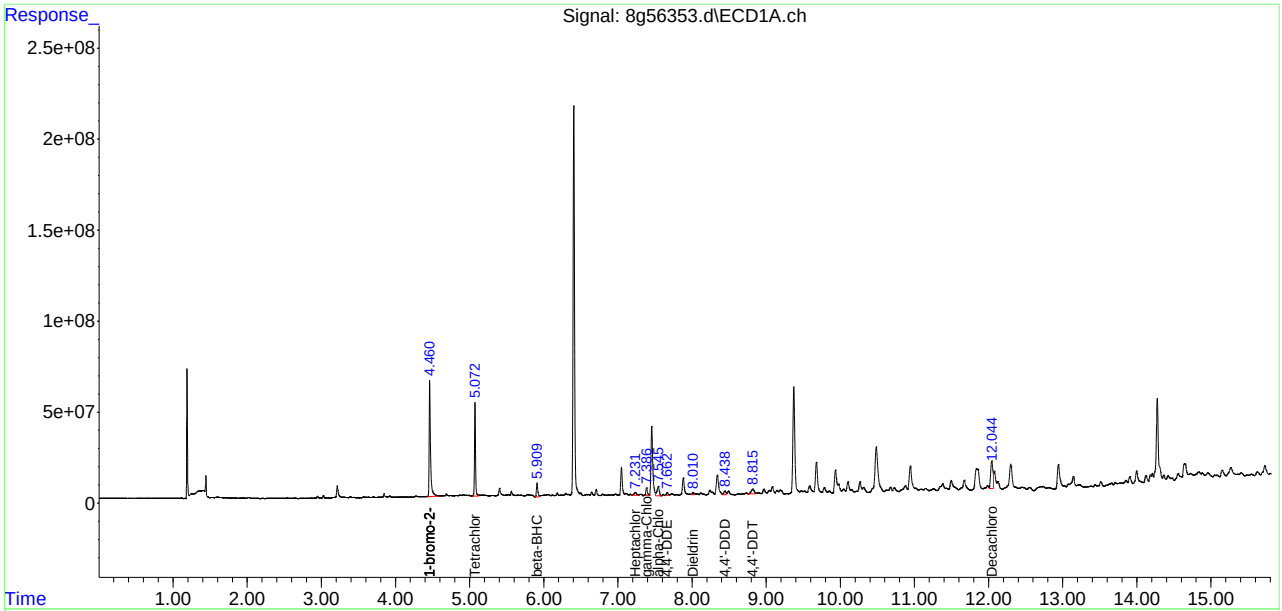
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

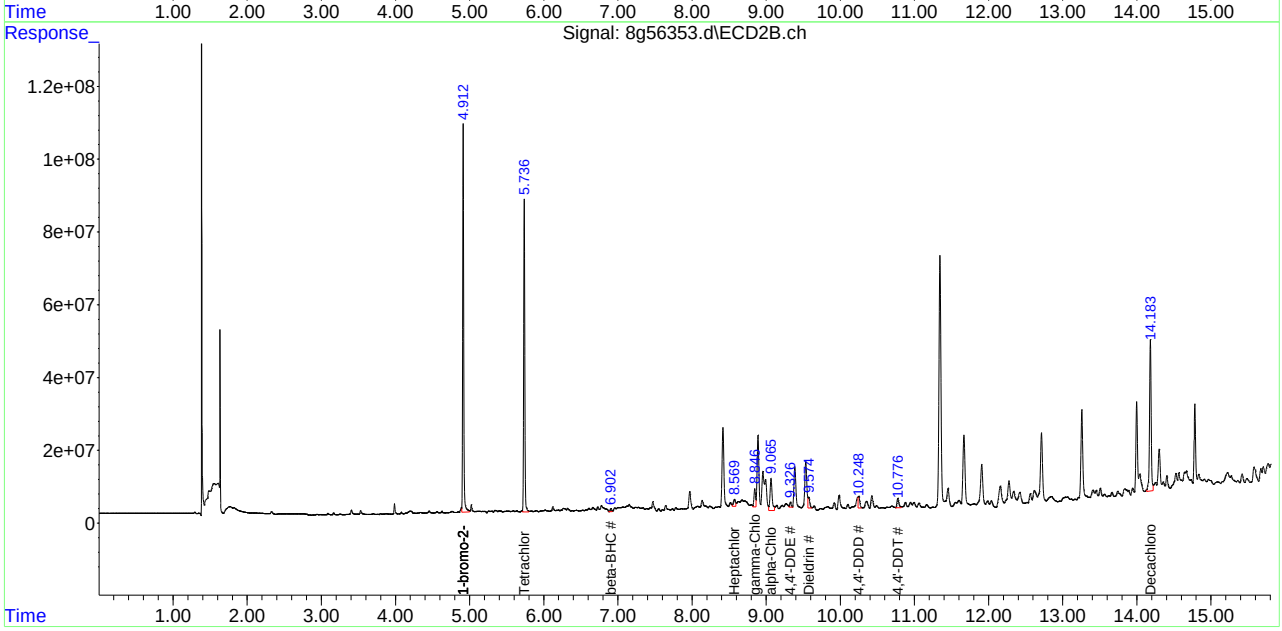
Quantitation Report (QT Reviewed)

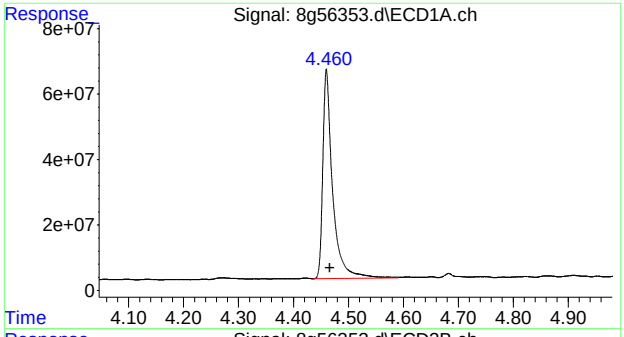
Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56353.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 7:08 am
Operator : christp
Sample : jd87833-4 m
Misc : op54452,g8g2470,5.4,,,10,1
ALS Vial : 77 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 14:46:34 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

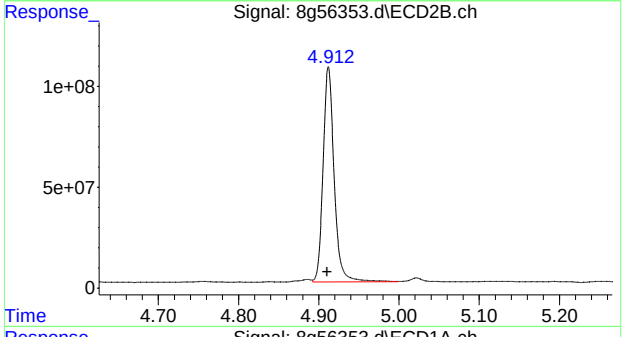






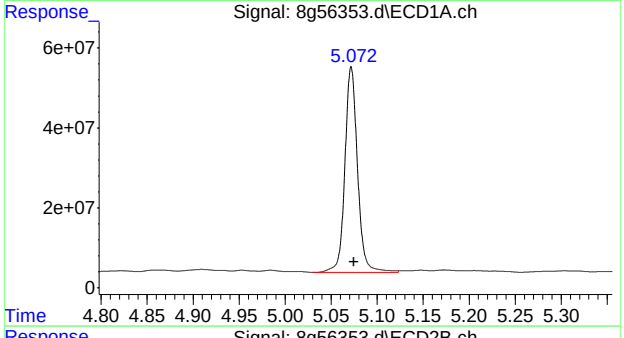
#1 1-bromo-2-nitrobenzene

R.T.: 4.460 min
Delta R.T.: -0.006 min
Response: 792313903
Conc: 5.00 PPB



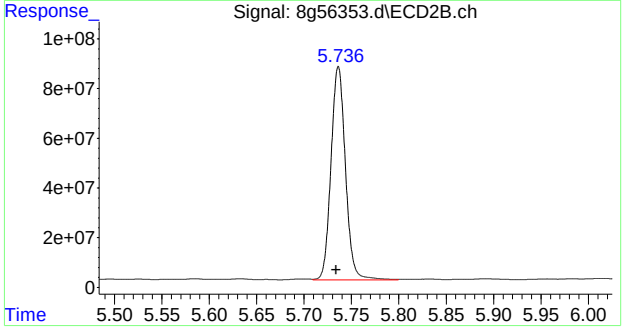
#1 1-bromo-2-nitrobenzene

R.T.: 4.912 min
Delta R.T.: 0.002 min
Response: 1025969781
Conc: 5.00 PPB



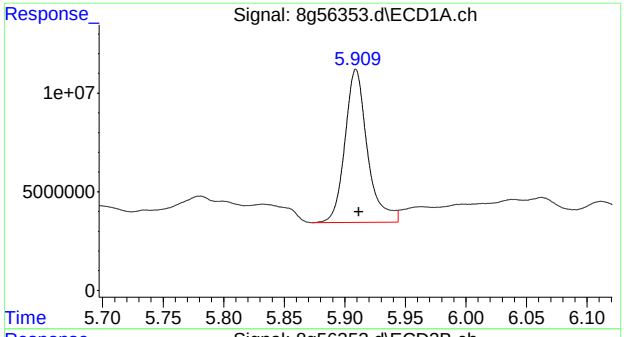
#2 Tetrachloro-m-xylene

R.T.: 5.072 min
Delta R.T.: -0.003 min
Response: 493915296
Conc: 2.99 PPB m



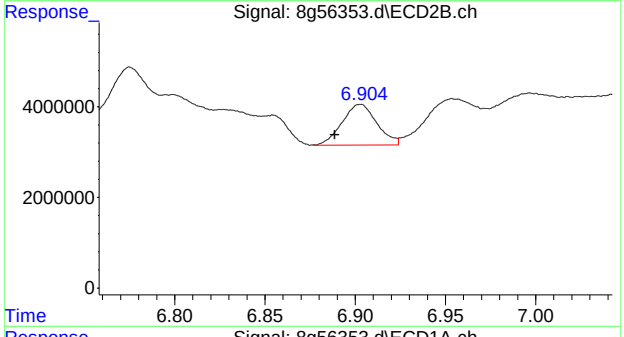
#2 Tetrachloro-m-xylene

R.T.: 5.736 min
Delta R.T.: 0.003 min
Response: 909213050
Conc: 3.01 PPB



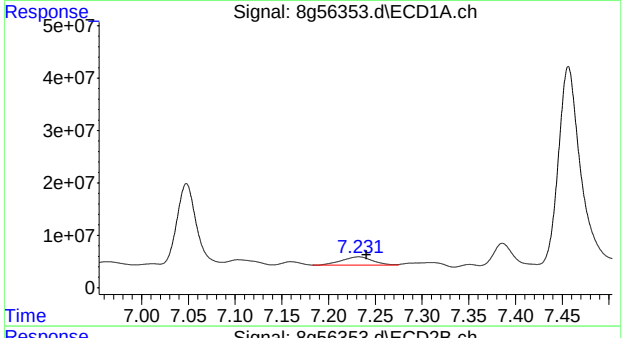
#7 beta-BHC

R.T.: 5.909 min
Delta R.T.: -0.002 min
Response: 100167964
Conc: 0.93 PPB



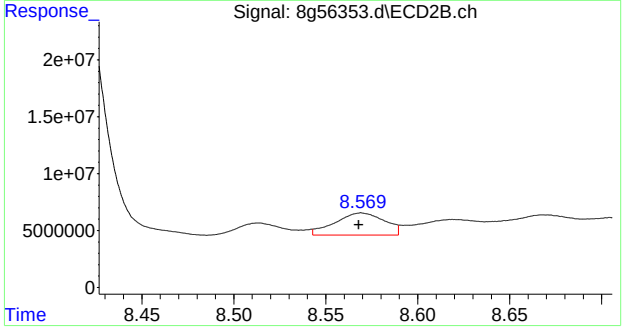
#7 beta-BHC

R.T.: 6.903 min
Delta R.T.: 0.014 min
Response: 11941228
Conc: 0.07 PPB



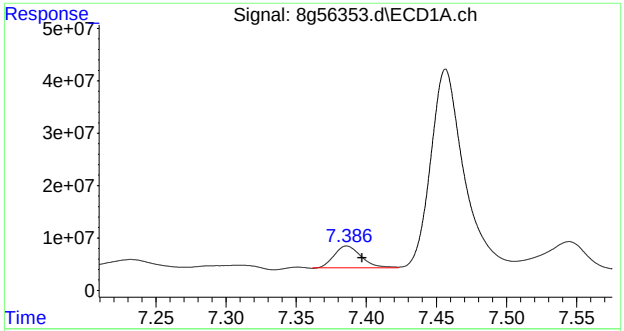
#11 Heptachlor Epoxide

R.T.: 7.231 min
Delta R.T.: -0.009 min
Response: 37451643
Conc: 0.21 PPB m



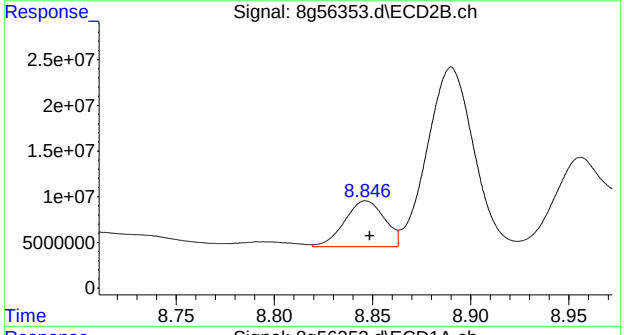
#11 Heptachlor Epoxide

R.T.: 8.569 min
Delta R.T.: 0.000 min
Response: 36566488
Conc: 0.11 PPB m



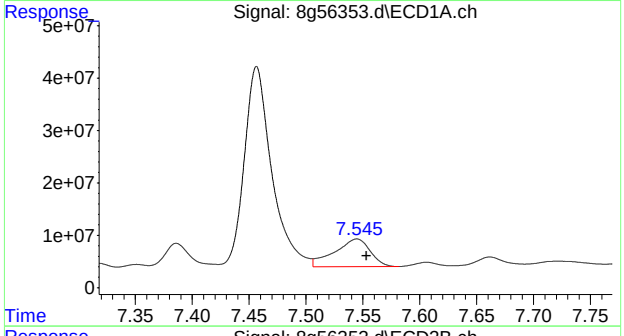
#12 gamma-Chlordane

R.T.: 7.386 min
Delta R.T.: -0.011 min
Response: 55951401
Conc: 0.27 PPB m



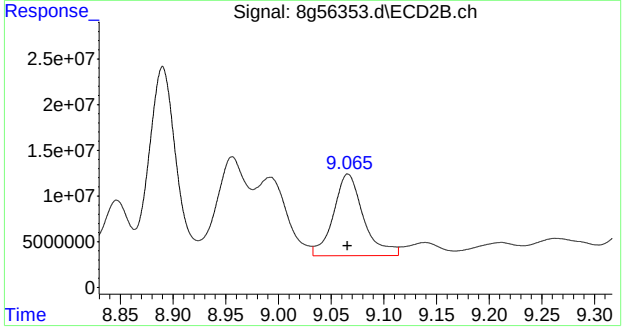
#12 gamma-Chlordane

R.T.: 8.846 min
Delta R.T.: -0.003 min
Response: 71421441
Conc: 0.22 PPB m



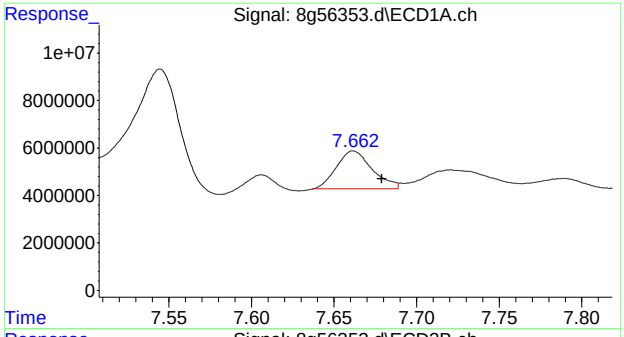
#13 alpha-Chlordane

R.T.: 7.545 min
Delta R.T.: -0.008 min
Response: 115632460
Conc: 0.59 PPB



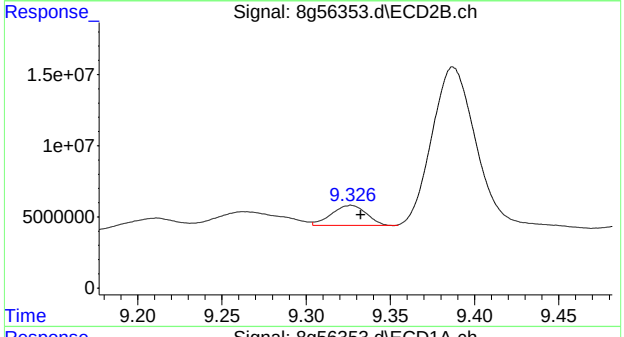
#13 alpha-Chlordane

R.T.: 9.066 min
Delta R.T.: 0.000 min
Response: 177477367
Conc: 0.59 PPB



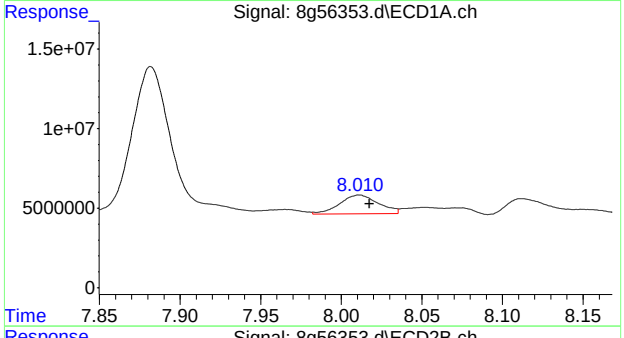
#15 4,4'-DDE

R.T.: 7.662 min
Delta R.T.: -0.017 min
Response: 24295070
Conc: 0.13 PPB m



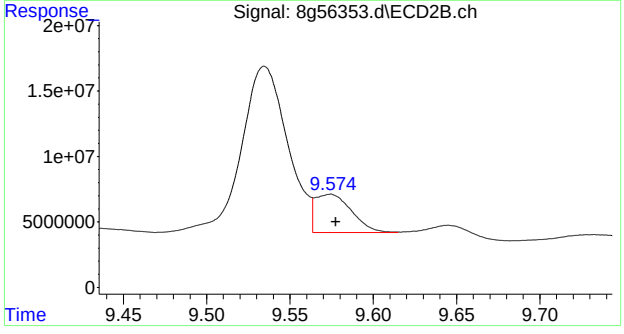
#15 4,4'-DDE

R.T.: 9.326 min
Delta R.T.: -0.006 min
Response: 20496617
Conc: 0.07 PPB m



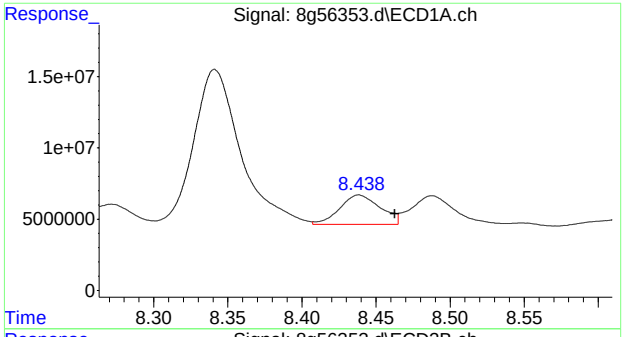
#16 Dieldrin

R.T.: 8.010 min
Delta R.T.: -0.007 min
Response: 19825702
Conc: 0.10 PPB m



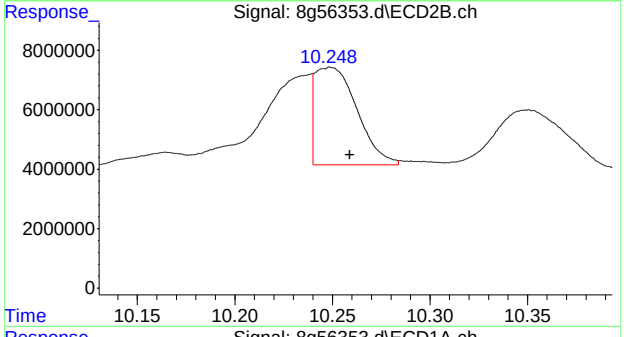
#16 Dieldrin

R.T.: 9.574 min
Delta R.T.: -0.003 min
Response: 44169523
Conc: 0.13 PPB m



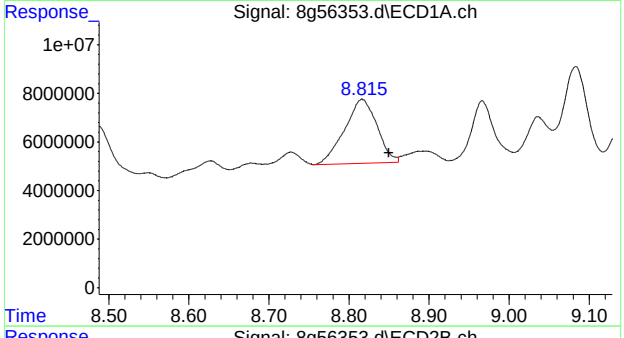
#18 4,4'-DDD

R.T.: 8.438 min
Delta R.T.: -0.024 min
Response: 39305089
Conc: 0.29 PPB m



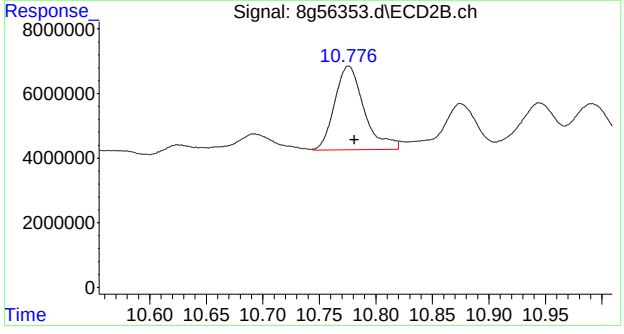
#18 4,4'-DDD

R.T.: 10.248 min
Delta R.T.: -0.011 min
Response: 48777871
Conc: 0.19 PPB m



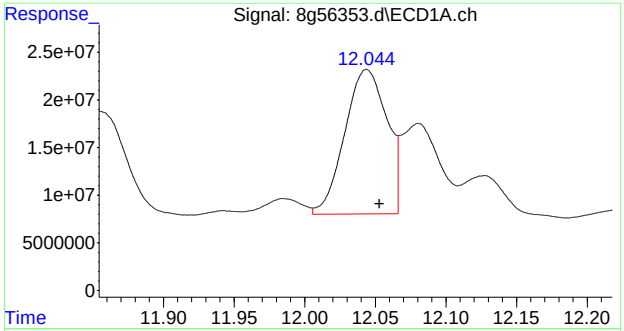
#20 4,4'-DDT

R.T.: 8.815 min
Delta R.T.: -0.034 min
Response: 74614367
Conc: 0.48 PPB m



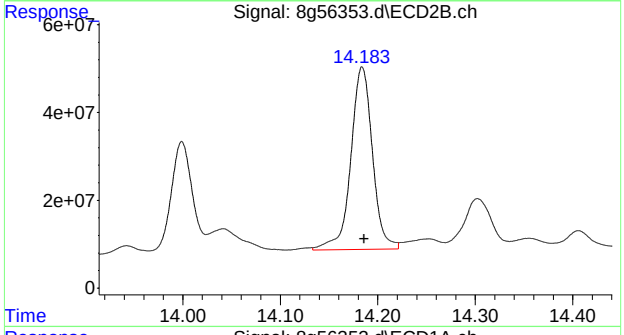
#20 4,4'-DDT

R.T.: 10.776 min
Delta R.T.: -0.005 min
Response: 47229218
Conc: 0.25 PPB m



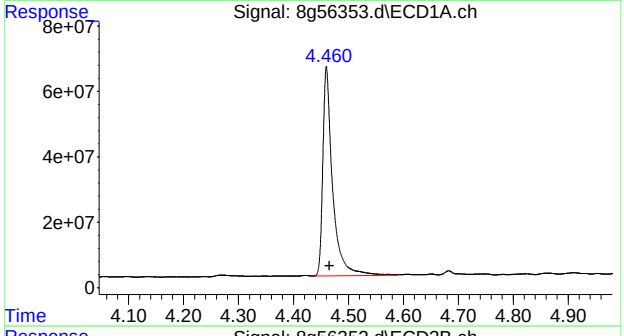
#26 Decachlorobiphenyl

R.T.: 12.044 min
Delta R.T.: -0.009 min
Response: 316433576
Conc: 1.78 PPB m



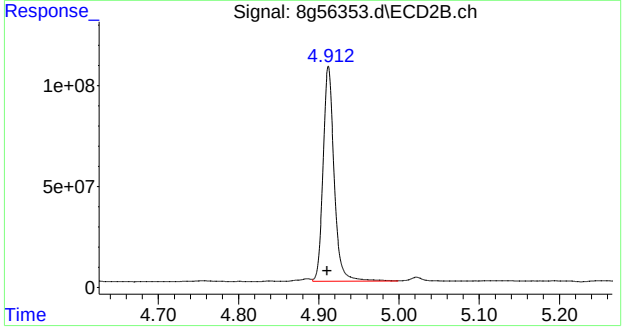
#26 Decachlorobiphenyl

R.T.: 14.183 min
Delta R.T.: -0.002 min
Response: 642030245
Conc: 4.49 PPB m



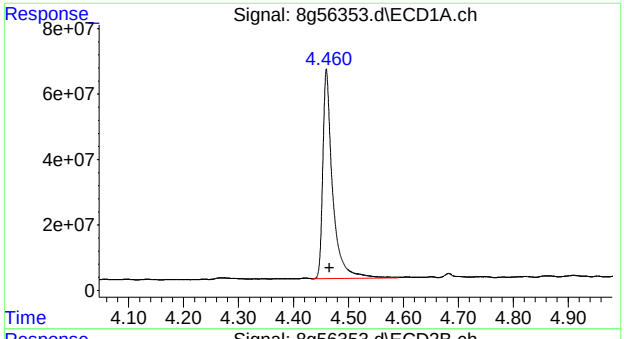
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.460 min
Delta R.T.: -0.005 min
Response: 792313903
Conc: 5.00 PPB



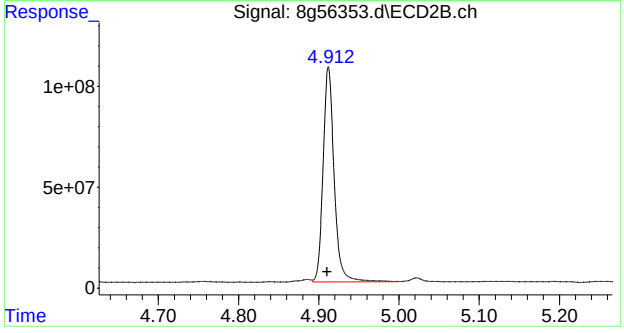
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.912 min
Delta R.T.: 0.002 min
Response: 1025969781
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.460 min
Delta R.T.: -0.005 min
Response: 792313903
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.912 min
Delta R.T.: 0.002 min
Response: 1025969781
Conc: 5.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/10/24 09:30

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\anndg\G8G2471\
Data File : 8g56401.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 May 2024 1:27 am
Operator : tilakp
Sample : jd87833-5 m
Misc : op54452,g8g2471,5.4,,,10,5
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 10:06:19 2024
Quant Method : C:\msdchem\1\data\anndg\G8G2471\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Fri May 10 08:05:08 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.465	4.918	635.8E6	972.7E6	5.000m	5.000
27)	I 1-bromo-2...	4.465	4.918	640.5E6	972.7E6	5.000m	5.000
33)	I 1-bromo-2...	4.465	4.918	644.3E6	972.7E6	5.000m	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.076	5.740	95661592	193.4E6	0.722	0.676
	Spiked Amount 40.000	Range 30 - 150		Recovery =		1.80%#	1.69%#
26)	SA Decachlor...	12.055	14.192	61698492	113.2E6	0.432m	0.835m#
	Spiked Amount 40.000			Recovery =		1.08%	2.09%
	Target Compounds						
13)	B alpha-Chl...	7.555	9.074	18682122	17423417	0.119m	0.061m#
18)	A 4,4'-DDD	8.450f	10.265	11815072	17390306	0.107m	0.071m#
20)	MA 4,4'-DDT	8.837f	10.788	16514540	22881894	0.132m	0.129m

SemiQuant Compounds - Not Calibrated on this Instrument

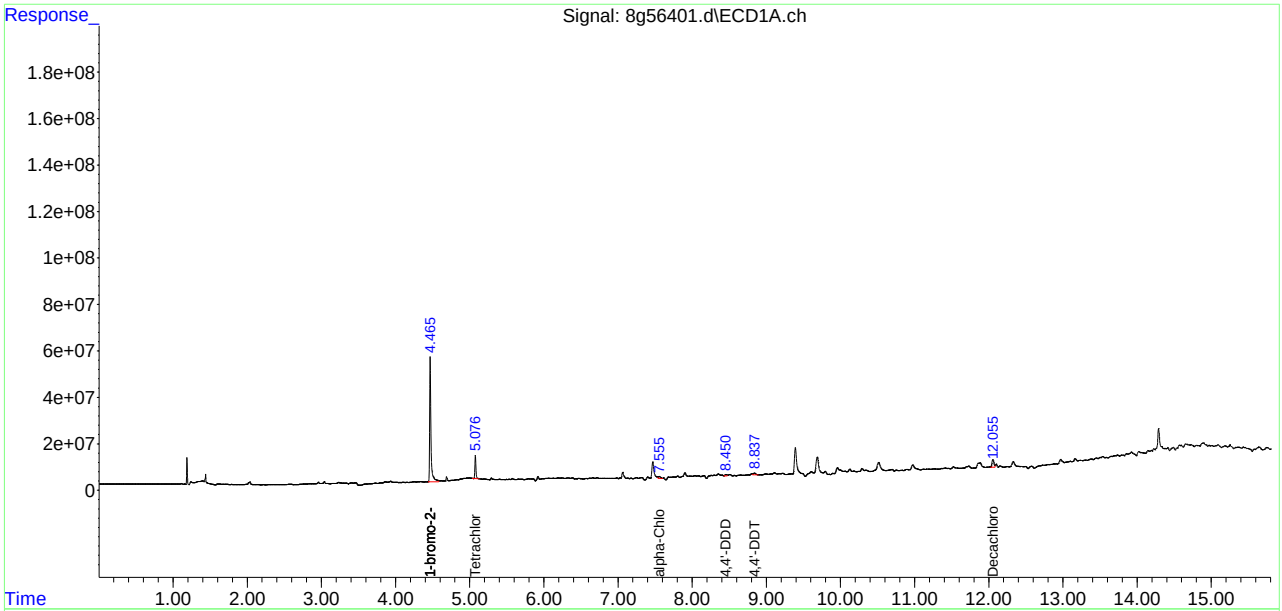
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

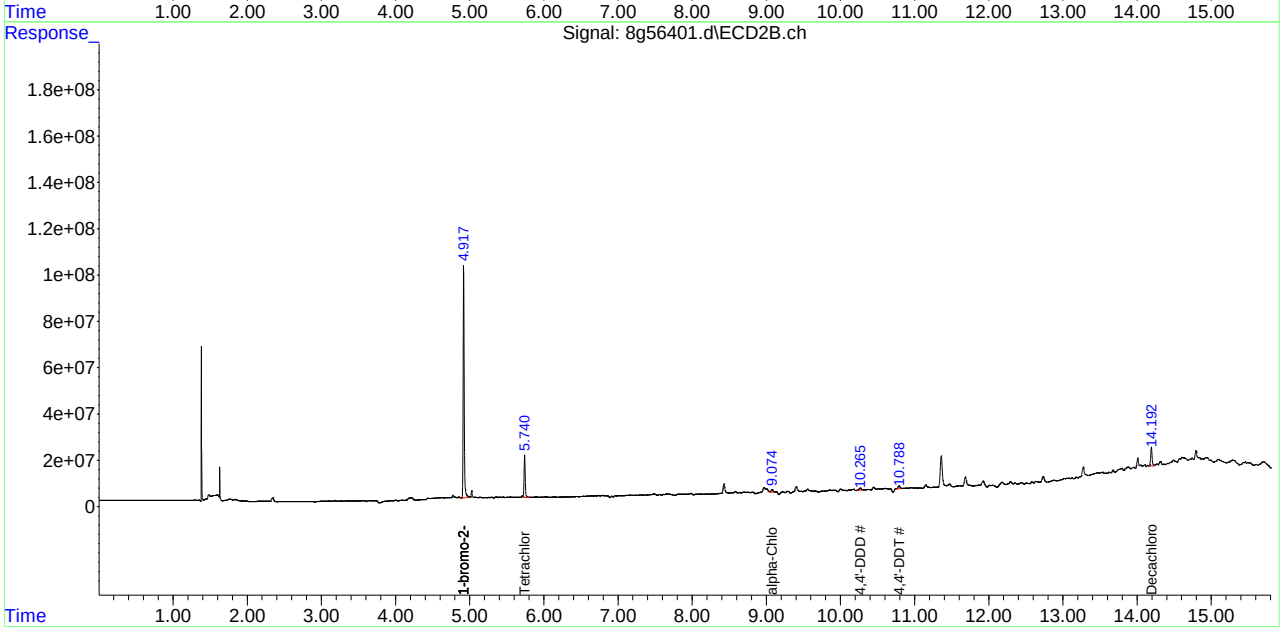
Quantitation Report (QT Reviewed)

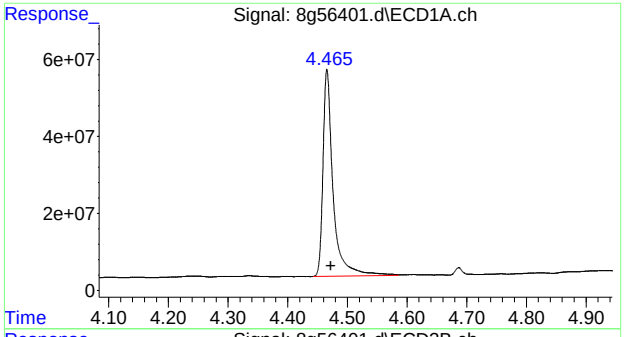
Data Path : C:\msdchem\1\data\anndg\G8G2471\
Data File : 8g56401.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 May 2024 1:27 am
Operator : tilakp
Sample : jd87833-5 m
Misc : op54452,g8g2471,5.4,,,10,5
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 10 10:06:19 2024
Quant Method : C:\msdchem\1\data\anndg\G8G2471\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Fri May 10 08:05:08 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

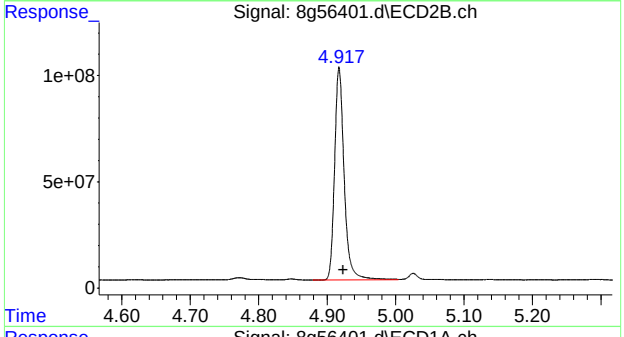






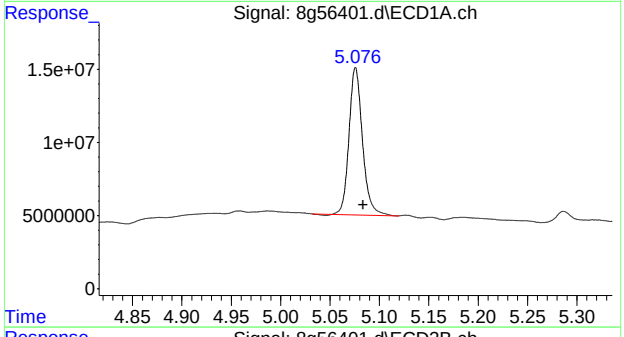
#1 1-bromo-2-nitrobenzene

R.T.: 4.465 min
Delta R.T.: -0.007 min
Response: 635755160
Conc: 5.00 PPB m



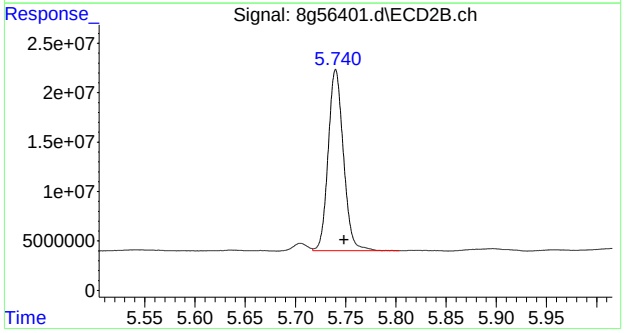
#1 1-bromo-2-nitrobenzene

R.T.: 4.918 min
Delta R.T.: -0.005 min
Response: 972687823
Conc: 5.00 PPB



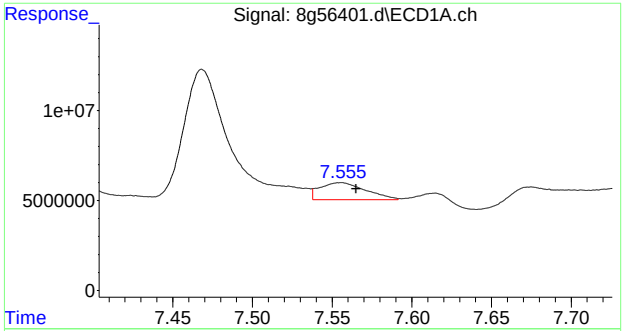
#2 Tetrachloro-m-xylene

R.T.: 5.076 min
Delta R.T.: -0.008 min
Response: 95661592
Conc: 0.72 PPB



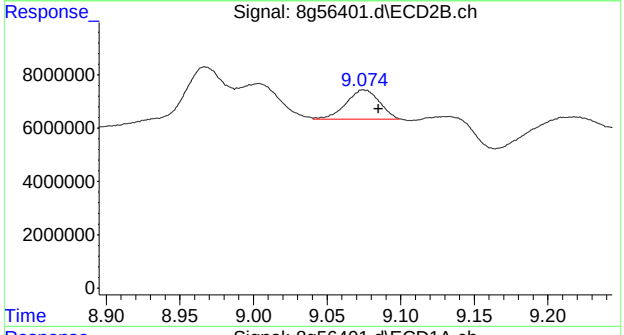
#2 Tetrachloro-m-xylene

R.T.: 5.740 min
Delta R.T.: -0.008 min
Response: 193371860
Conc: 0.68 PPB



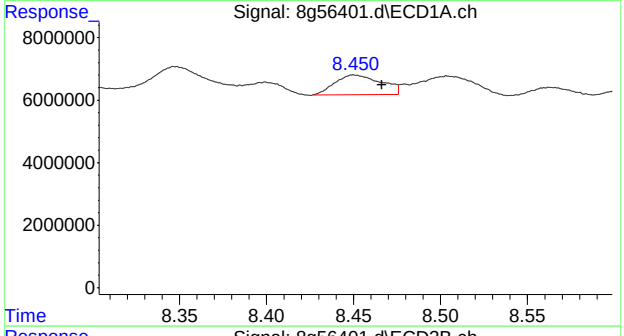
#13 alpha-Chlordane

R.T.: 7.555 min
Delta R.T.: -0.010 min
Response: 18682122
Conc: 0.12 PPB m



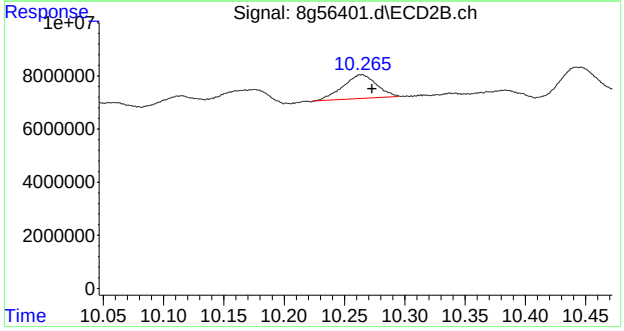
#13 alpha-Chlordane

R.T.: 9.074 min
Delta R.T.: -0.011 min
Response: 17423417
Conc: 0.06 PPB m



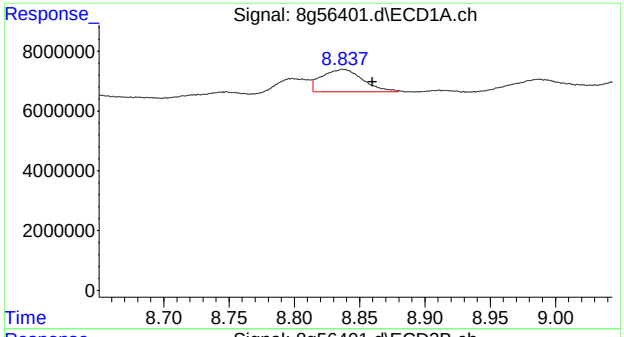
#18 4,4'-DDD

R.T.: 8.450 min
Delta R.T.: -0.017 min
Response: 11815072
Conc: 0.11 PPB m



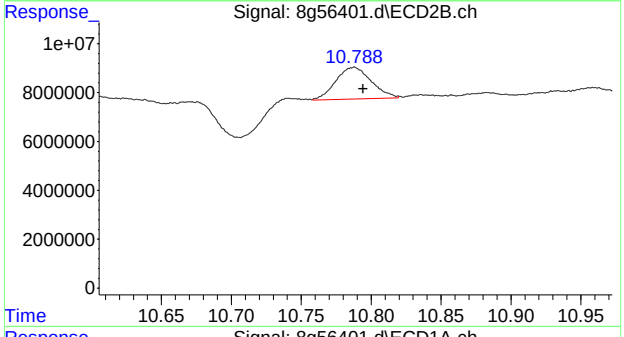
#18 4,4'-DDD

R.T.: 10.265 min
Delta R.T.: -0.008 min
Response: 17390306
Conc: 0.07 PPB m



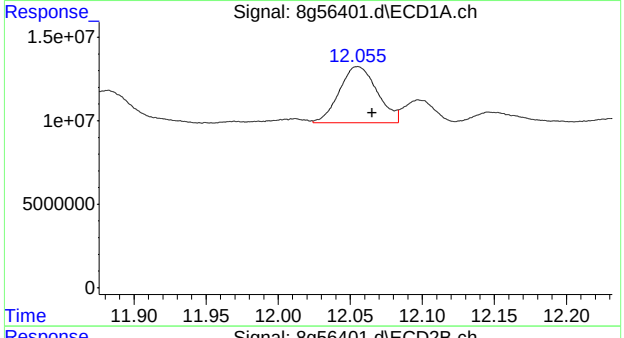
#20 4,4'-DDT

R.T.: 8.837 min
Delta R.T.: -0.023 min
Response: 16514540
Conc: 0.13 PPB m



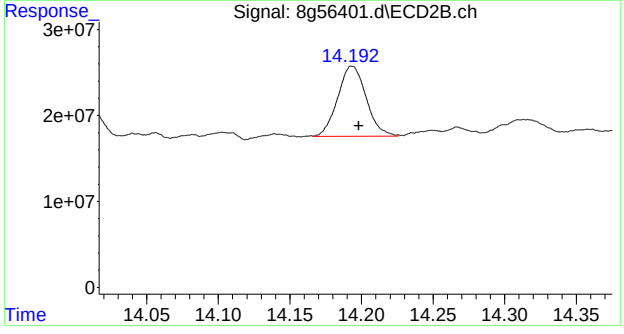
#20 4,4'-DDT

R.T.: 10.788 min
Delta R.T.: -0.006 min
Response: 22881894
Conc: 0.13 PPB m



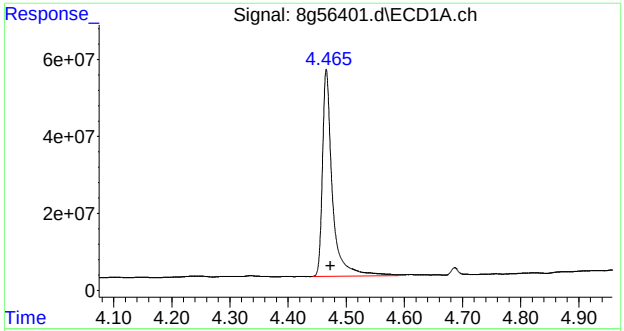
#26 Decachlorobiphenyl

R.T.: 12.055 min
Delta R.T.: -0.010 min
Response: 61698492
Conc: 0.43 PPB m



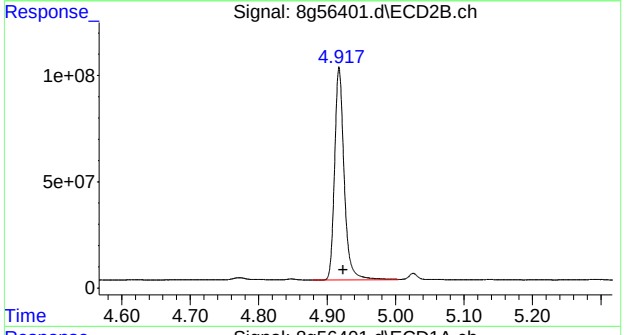
#26 Decachlorobiphenyl

R.T.: 14.192 min
Delta R.T.: -0.006 min
Response: 113228493
Conc: 0.84 PPB m



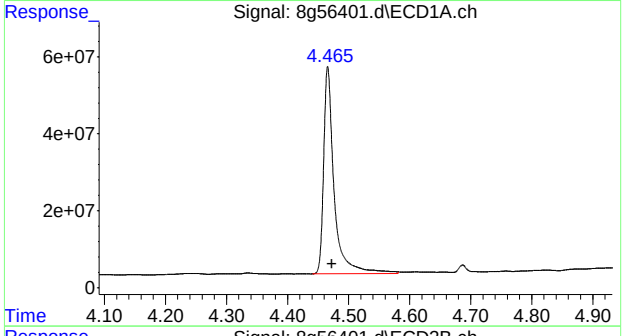
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.465 min
Delta R.T.: -0.007 min
Response: 640506702
Conc: 5.00 PPB m



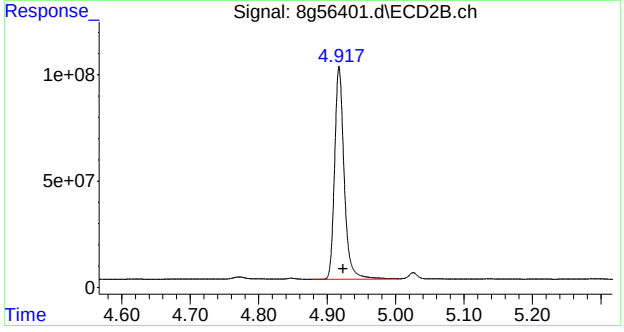
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.918 min
Delta R.T.: -0.005 min
Response: 972687823
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.465 min
Delta R.T.: -0.007 min
Response: 644301896
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.918 min
Delta R.T.: -0.005 min
Response: 972687823
Conc: 5.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
05/09/24 15:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56355.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 7:52 am
Operator : christp
Sample : jd87833-7 m
Misc : op54452,g8g2470,5.0,,,10,1
ALS Vial : 79 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 16:18:02 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.456	4.908	657.5E6	931.8E6	5.000m	5.000
27)	I 1-bromo-2...	4.456	4.908	657.7E6	931.8E6	5.000m	5.000
33)	I 1-bromo-2...	4.456	4.908	659.2E6	931.8E6	5.000m	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.066	5.731	478.8E6	920.8E6	3.494m	3.358m
	Spiked Amount 40.000	Range 30 - 150		Recovery =		8.74%#	8.39%#
26)	SA Decachlor...	12.042	14.184	341.5E6	578.7E6	2.310m	4.456m#
	Spiked Amount 40.000			Recovery =		5.78%	11.14%
	Target Compounds						
7)	B beta-BHC	5.903	6.897	44925166	11261351	0.503m	0.071 #
11)	B Heptachlo...	7.225f	8.565	40061342	40088459	0.274m	0.135m#
12)	B gamma-Chl...	7.381f	8.842	48590961	60032111	0.282m	0.201m#
13)	B alpha-Chl...	7.540	9.062	84160930	107.6E6	0.518m	0.391m
15)	B 4,4'-DDE	7.655f	9.324	51512414	74087877	0.331m	0.261m
16)	MA Dieldrin	8.005	9.563	17641638	20852065	0.105m	0.069m#
18)	A 4,4'-DDD	8.432f	10.250	44711614	73998185	0.393m	0.314m
20)	MA 4,4'-DDT	8.809f	10.774	62133033	33913225	0.482m	0.199m#
	SemiQuant Compounds - Not Calibrated on this Instrument						

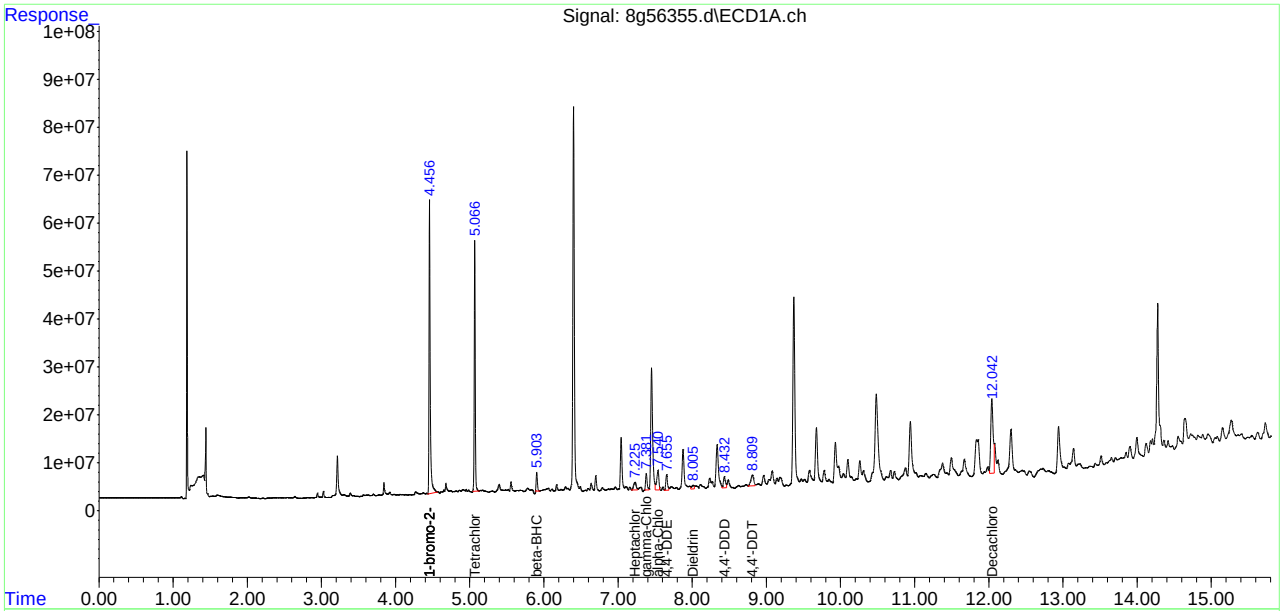
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

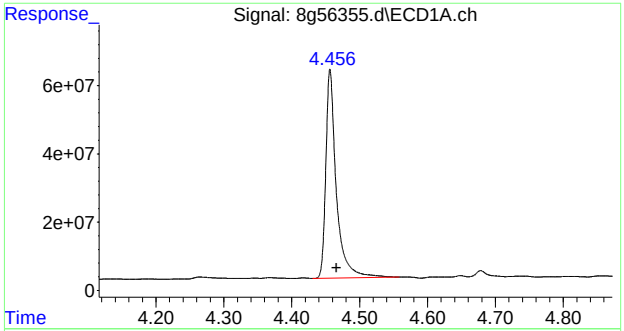
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56355.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 7:52 am
Operator : christp
Sample : jd87833-7 m
Misc : op54452,g8g2470,5.0,,,10,1
ALS Vial : 79 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 16:18:02 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

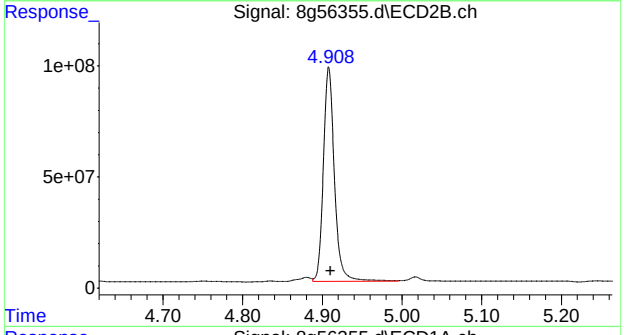
Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





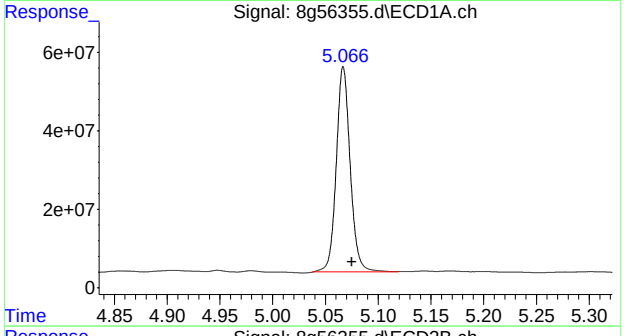
#1 1-bromo-2-nitrobenzene

R.T.: 4.456 min
Delta R.T.: -0.010 min
Response: 657488842
Conc: 5.00 PPB m



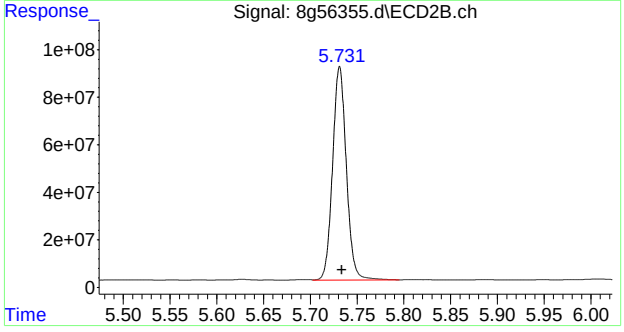
#1 1-bromo-2-nitrobenzene

R.T.: 4.908 min
Delta R.T.: -0.002 min
Response: 931818456
Conc: 5.00 PPB



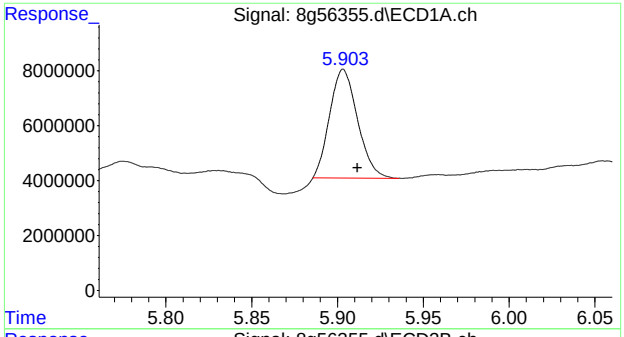
#2 Tetrachloro-m-xylene

R.T.: 5.066 min
Delta R.T.: -0.008 min
Response: 478775982
Conc: 3.49 PPB m



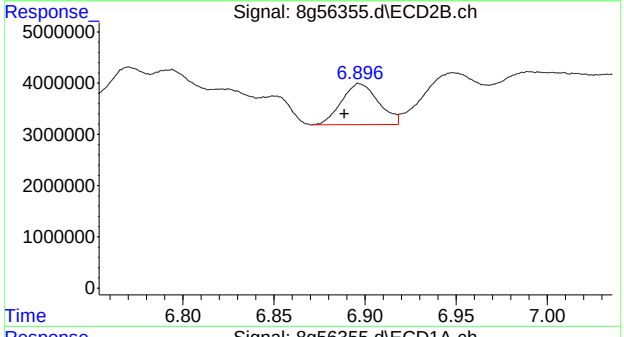
#2 Tetrachloro-m-xylene

R.T.: 5.731 min
Delta R.T.: -0.002 min
Response: 920800962
Conc: 3.36 PPB m



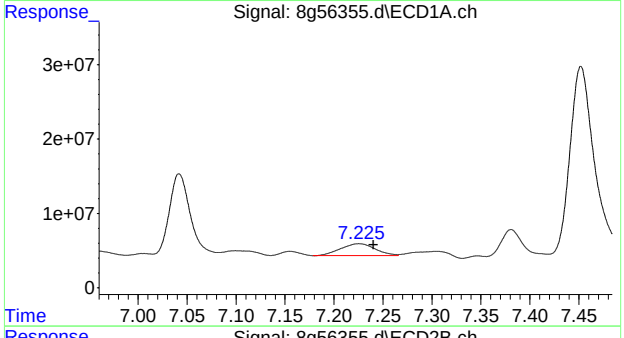
#7 beta-BHC

R.T.: 5.903 min
Delta R.T.: -0.009 min
Response: 44925166
Conc: 0.50 PPB m



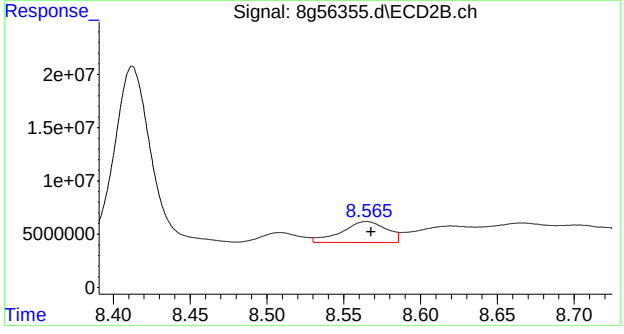
#7 beta-BHC

R.T.: 6.897 min
Delta R.T.: 0.008 min
Response: 11261351
Conc: 0.07 PPB



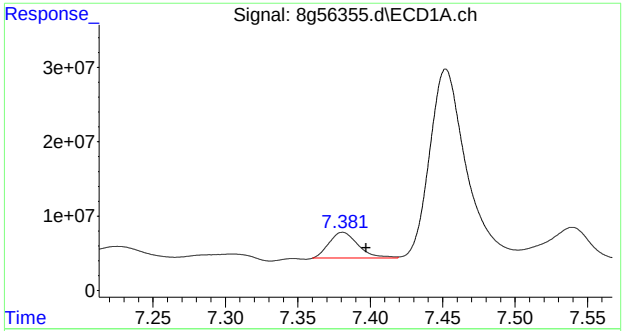
#11 Heptachlor Epoxide

R.T.: 7.225 min
Delta R.T.: -0.015 min
Response: 40061342
Conc: 0.27 PPB m



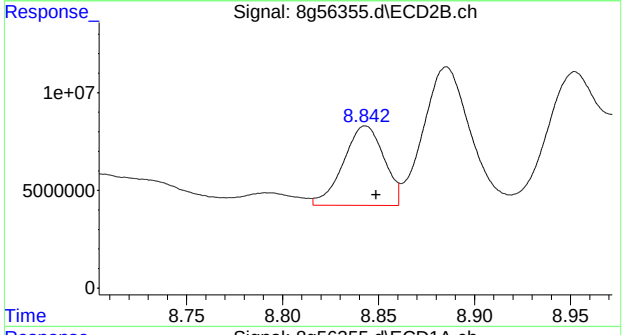
#11 Heptachlor Epoxide

R.T.: 8.565 min
Delta R.T.: -0.003 min
Response: 40088459
Conc: 0.14 PPB m



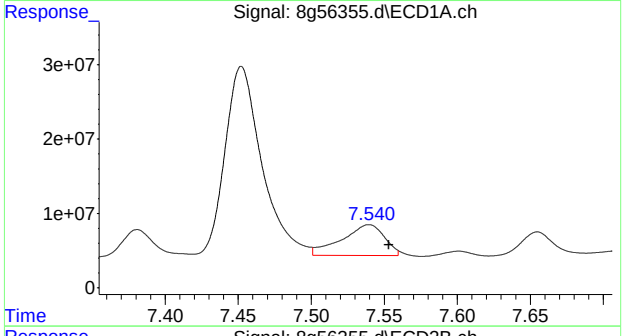
#12 gamma-Chlordane

R.T.: 7.381 min
Delta R.T.: -0.016 min
Response: 48590961
Conc: 0.28 PPB m



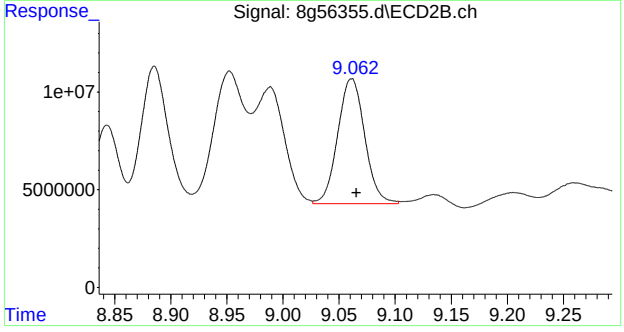
#12 gamma-Chlordane

R.T.: 8.842 min
Delta R.T.: -0.006 min
Response: 60032111
Conc: 0.20 PPB m



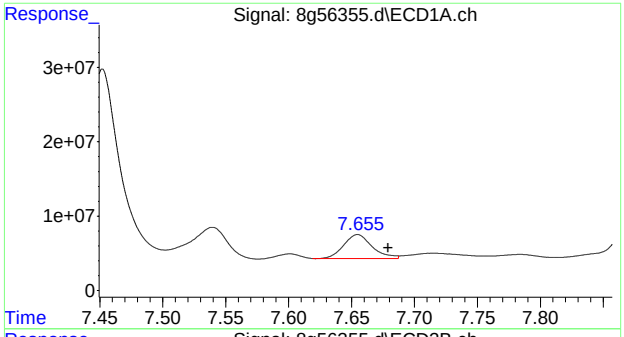
#13 alpha-Chlordane

R.T.: 7.540 min
Delta R.T.: -0.013 min
Response: 84160930
Conc: 0.52 PPB m



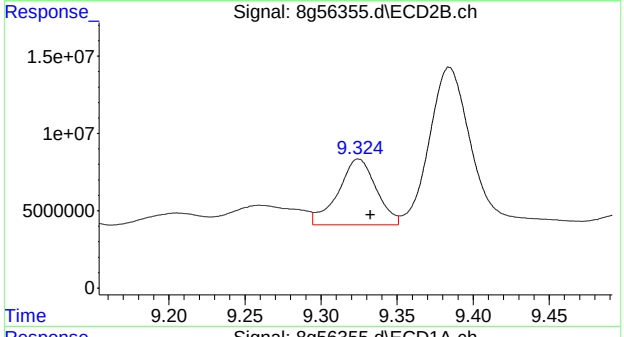
#13 alpha-Chlordane

R.T.: 9.062 min
Delta R.T.: -0.003 min
Response: 107559801
Conc: 0.39 PPB m



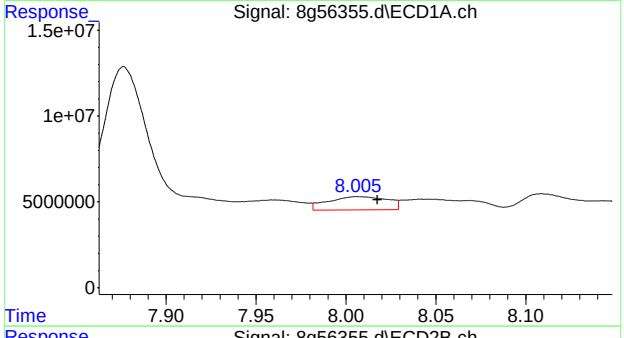
#15 4,4'-DDE

R.T.: 7.655 min
Delta R.T.: -0.024 min
Response: 51512414
Conc: 0.33 PPB m



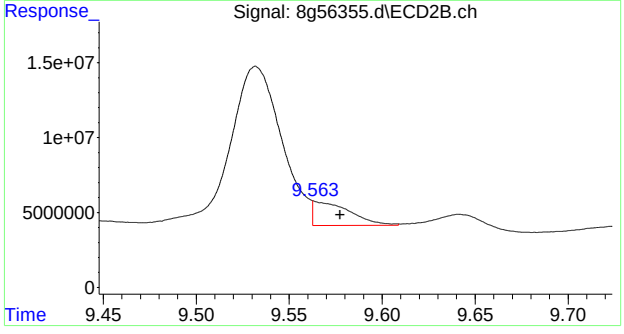
#15 4,4'-DDE

R.T.: 9.324 min
Delta R.T.: -0.009 min
Response: 74087877
Conc: 0.26 PPB m



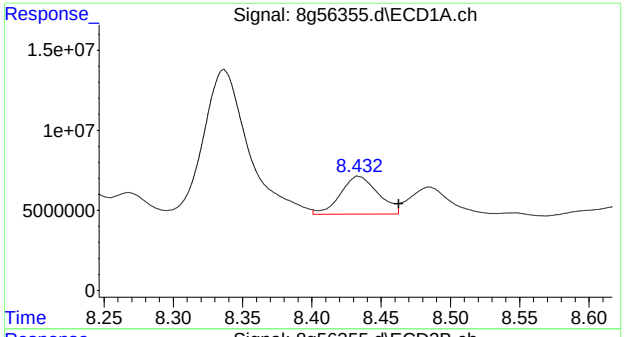
#16 Dieldrin

R.T.: 8.005 min
Delta R.T.: -0.012 min
Response: 17641638
Conc: 0.10 PPB m



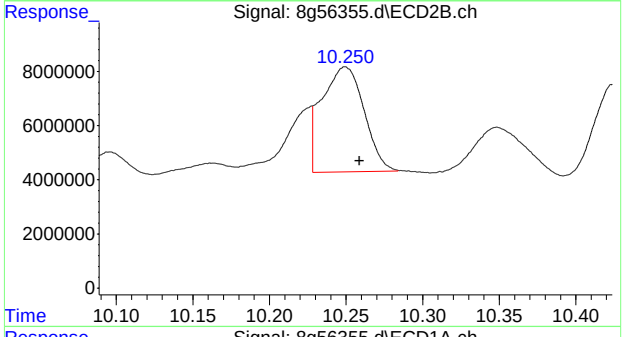
#16 Dieldrin

R.T.: 9.563 min
Delta R.T.: -0.015 min
Response: 20852065
Conc: 0.07 PPB m



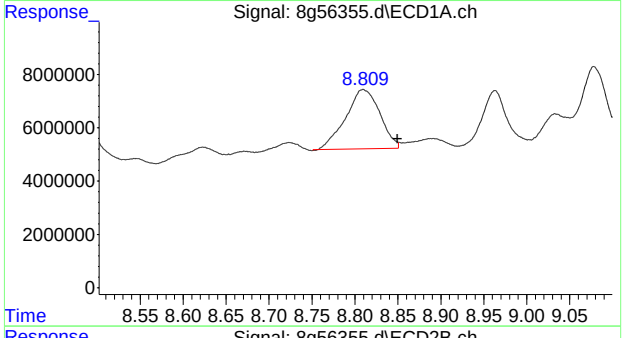
#18 4,4'-DDD

R.T.: 8.432 min
Delta R.T.: -0.030 min
Response: 44711614
Conc: 0.39 PPB m



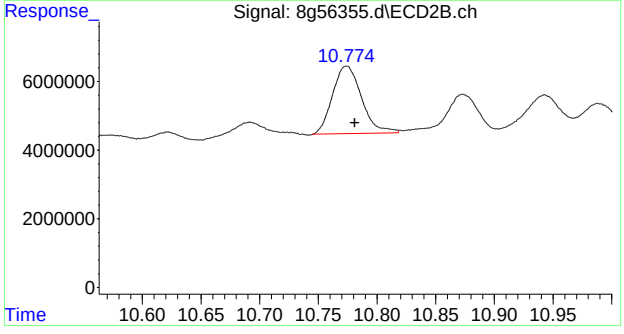
#18 4,4'-DDD

R.T.: 10.250 min
Delta R.T.: -0.009 min
Response: 73998185
Conc: 0.31 PPB m



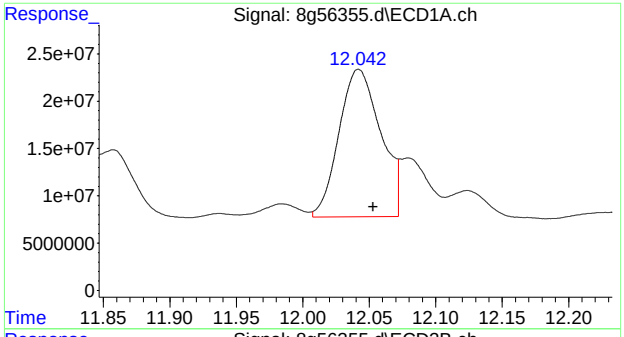
#20 4,4'-DDT

R.T.: 8.809 min
Delta R.T.: -0.040 min
Response: 62133033
Conc: 0.48 PPB m



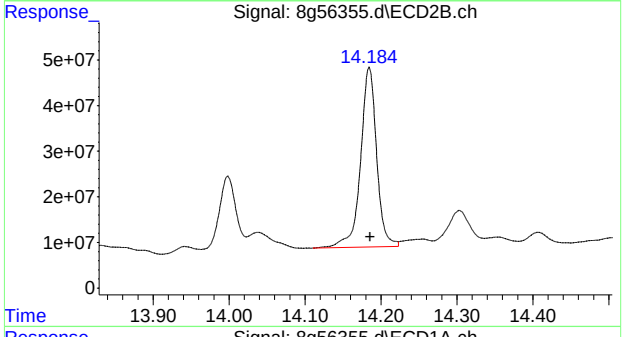
#20 4,4'-DDT

R.T.: 10.774 min
Delta R.T.: -0.007 min
Response: 33913225
Conc: 0.20 PPB m



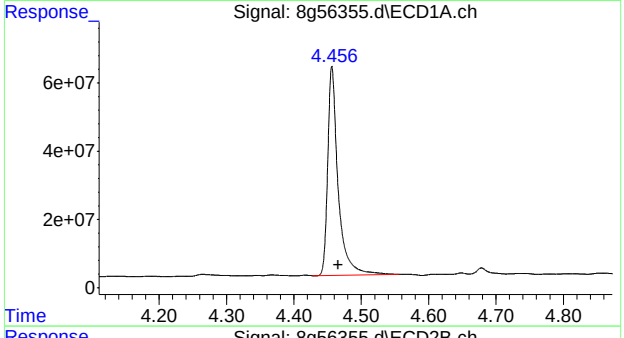
#26 Decachlorobiphenyl

R.T.: 12.042 min
Delta R.T.: -0.011 min
Response: 341532339
Conc: 2.31 PPB m



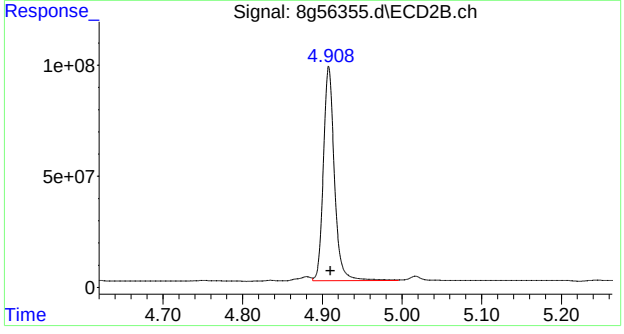
#26 Decachlorobiphenyl

R.T.: 14.184 min
Delta R.T.: -0.001 min
Response: 578743145
Conc: 4.46 PPB m



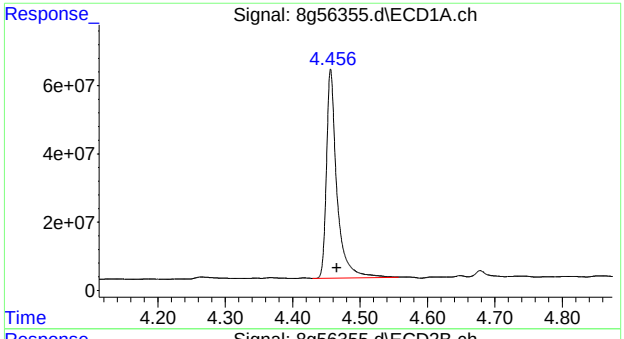
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.456 min
Delta R.T.: -0.010 min
Response: 657671549
Conc: 5.00 PPB m



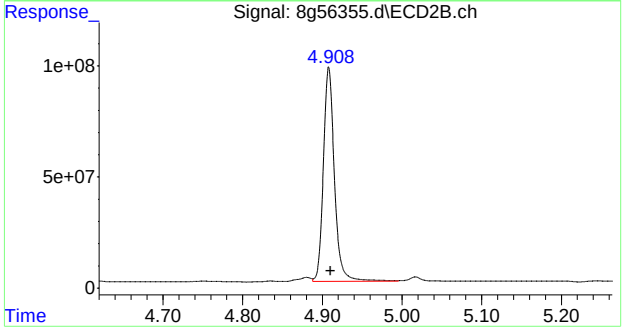
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.908 min
Delta R.T.: -0.002 min
Response: 931818456
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.456 min
Delta R.T.: -0.010 min
Response: 659160682
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.908 min
Delta R.T.: -0.002 min
Response: 931818456
Conc: 5.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
05/09/24 15:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56356.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 8:13 am
Operator : christp
Sample : jd87833-8 m
Misc : op54452,g8g2470,5.3,,,10,1
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 16:25:46 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.459	4.910	662.1E6	984.3E6	5.000	5.000m
27)	I 1-bromo-2...	4.459	4.910	662.1E6	983.4E6	5.000	5.000m
33)	I 1-bromo-2...	4.459	4.910	662.1E6	983.6E6	5.000	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.070	5.734	490.5E6	937.7E6	3.554	3.237
	Spiked Amount 40.000	Range 30 - 150		Recovery =		8.88%#	8.09%#
26)	SA Decachlor...	12.042	14.182	299.7E6	593.6E6	2.013m	4.327m#
	Spiked Amount 40.000			Recovery =		5.03%	10.82%
	Target Compounds						
7)	B beta-BHC	5.907	6.901	59387670	10865050	0.660m	0.064 #
11)	B Heptachlo...	7.229	8.569	28896862	23822950	0.196m	0.076m#
12)	B gamma-Chl...	7.384	8.845	32456842	32319786	0.187m	0.103m#
13)	B alpha-Chl...	7.543	9.063	61299953	77267638	0.375m	0.266m#
15)	B 4,4'-DDE	7.660f	9.326	35344647	31359725	0.226	0.105m#
18)	A 4,4'-DDD	8.436f	10.248	36515016	59702396	0.319m	0.240m
20)	MA 4,4'-DDT	8.813f	10.775	60185510	39483863	0.463m	0.220m#

SemiQuant Compounds - Not Calibrated on this Instrument

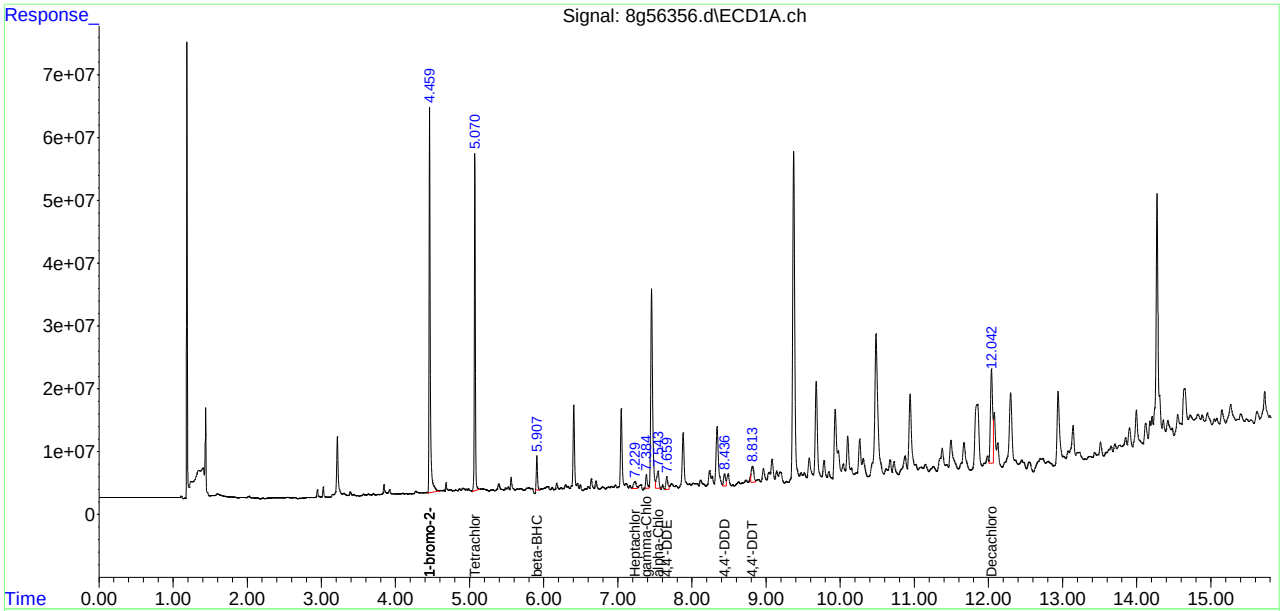
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

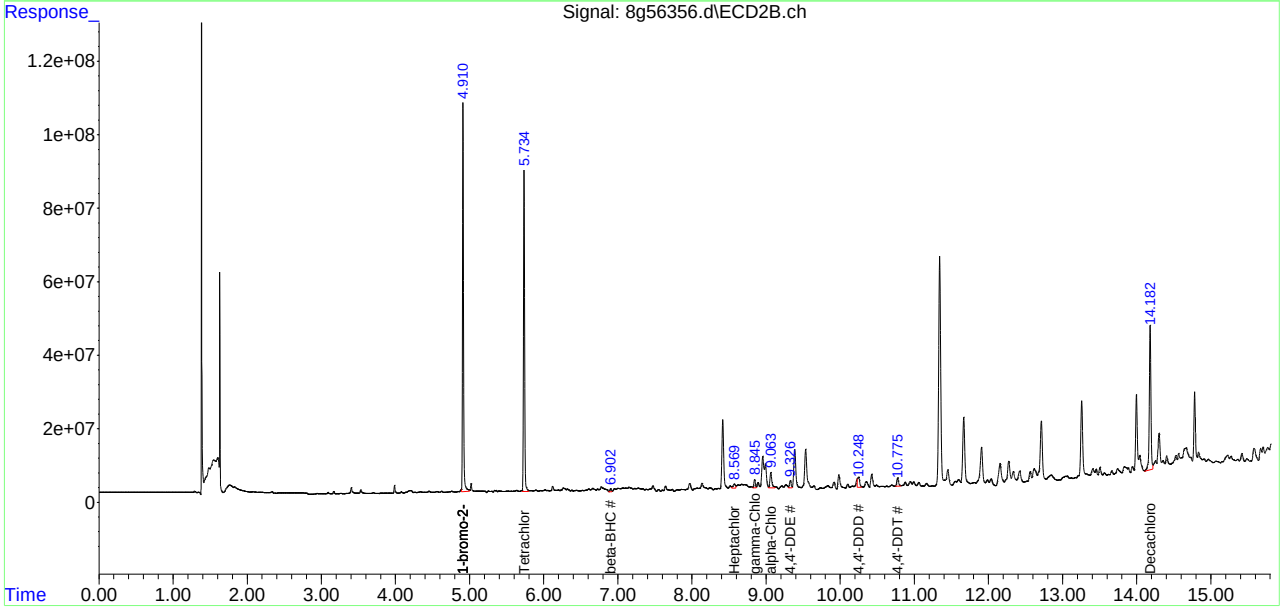
Quantitation Report (QT Reviewed)

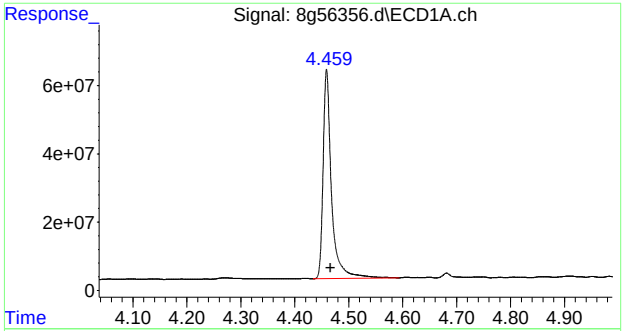
Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56356.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 8:13 am
Operator : christp
Sample : jd87833-8 m
Misc : op54452,g8g2470,5.3,,,10,1
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 16:25:46 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

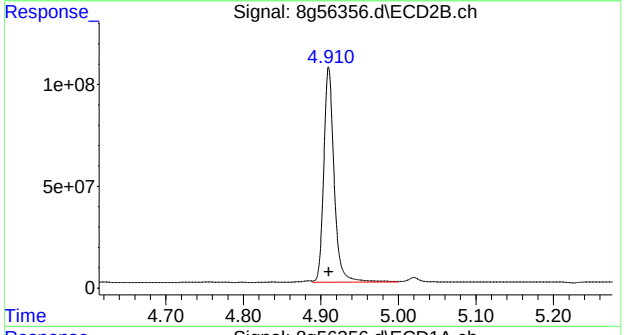






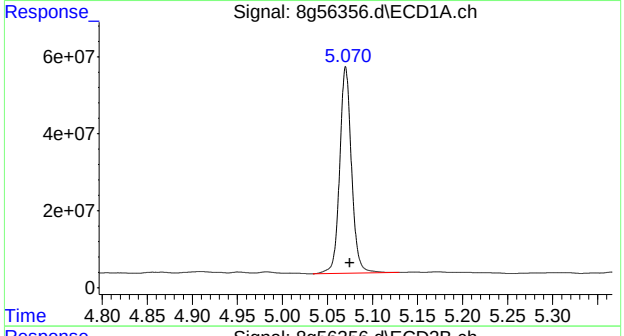
#1 1-bromo-2-nitrobenzene

R.T.: 4.459 min
Delta R.T.: -0.007 min
Response: 662136178
Conc: 5.00 PPB



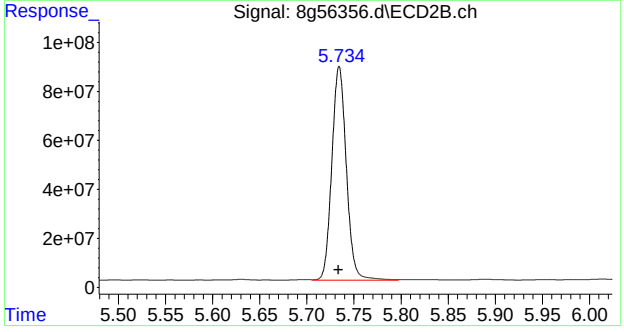
#1 1-bromo-2-nitrobenzene

R.T.: 4.910 min
Delta R.T.: 0.000 min
Response: 984272214
Conc: 5.00 PPB m



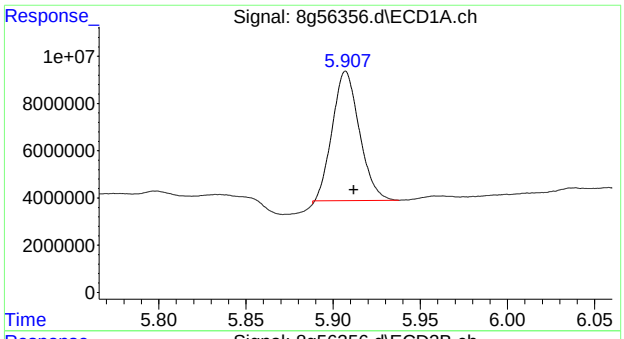
#2 Tetrachloro-m-xylene

R.T.: 5.070 min
Delta R.T.: -0.004 min
Response: 490506061
Conc: 3.55 PPB



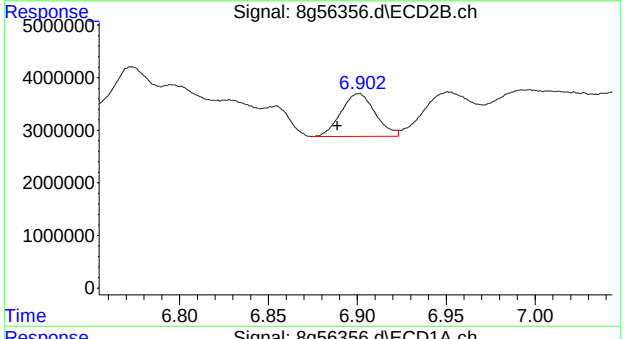
#2 Tetrachloro-m-xylene

R.T.: 5.734 min
Delta R.T.: 0.000 min
Response: 937723627
Conc: 3.24 PPB



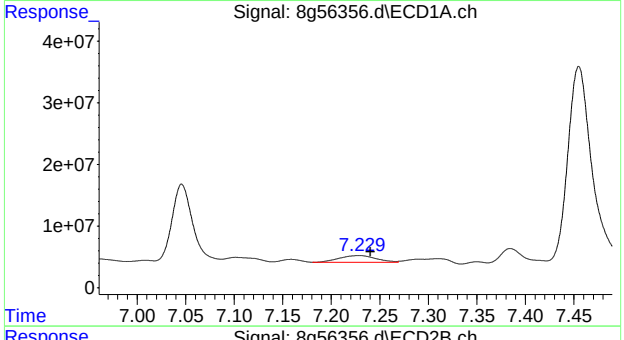
#7 beta-BHC

R.T.: 5.907 min
Delta R.T.: -0.005 min
Response: 59387670
Conc: 0.66 PPB m



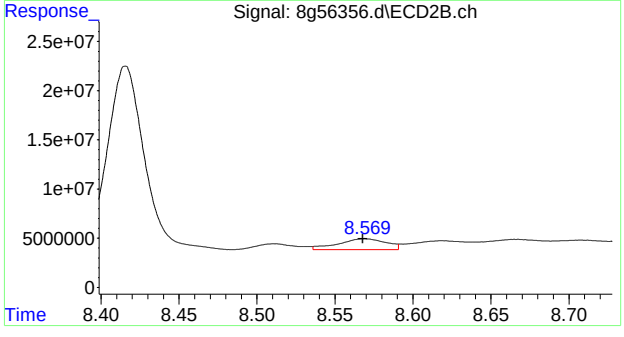
#7 beta-BHC

R.T.: 6.901 min
Delta R.T.: 0.012 min
Response: 10865050
Conc: 0.06 PPB



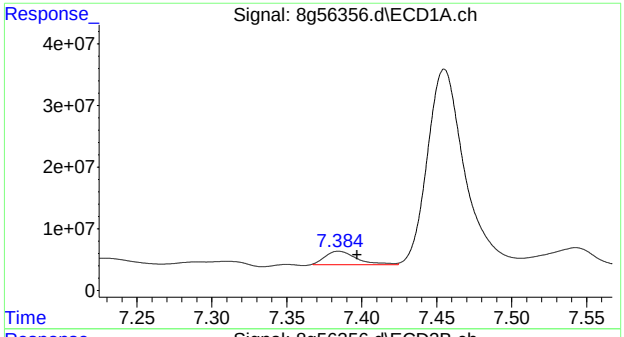
#11 Heptachlor Epoxide

R.T.: 7.229 min
Delta R.T.: -0.011 min
Response: 28896862
Conc: 0.20 PPB m



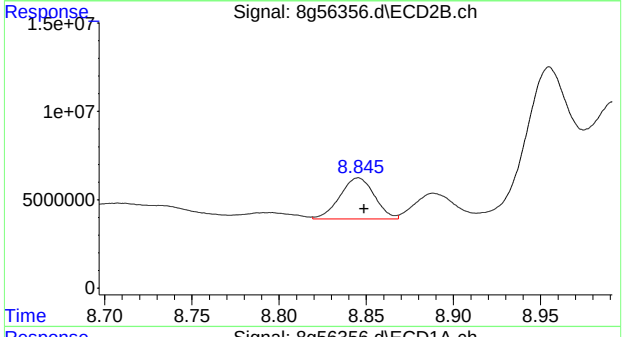
#11 Heptachlor Epoxide

R.T.: 8.569 min
Delta R.T.: 0.001 min
Response: 23822950
Conc: 0.08 PPB m



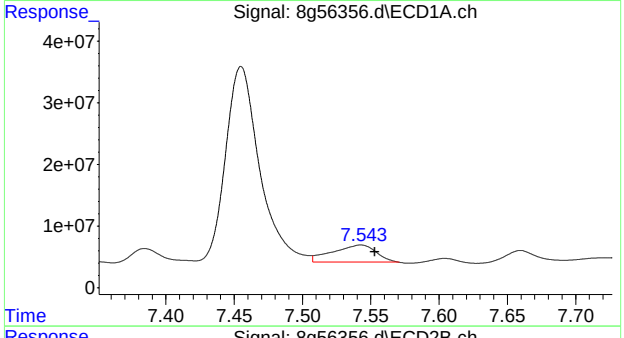
#12 gamma-Chlordane

R.T.: 7.384 min
Delta R.T.: -0.013 min
Response: 32456842
Conc: 0.19 PPB m



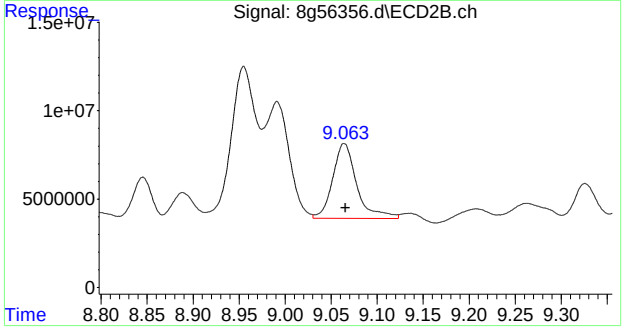
#12 gamma-Chlordane

R.T.: 8.845 min
Delta R.T.: -0.003 min
Response: 32319786
Conc: 0.10 PPB m



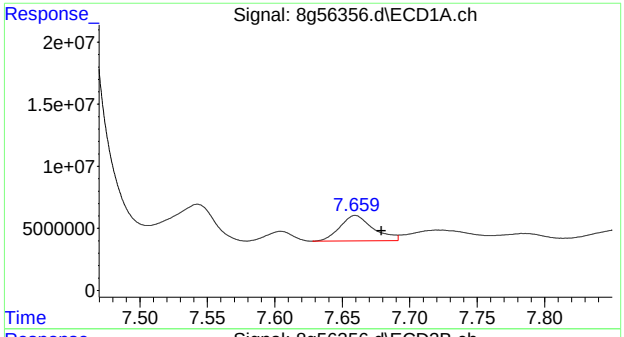
#13 alpha-Chlordane

R.T.: 7.543 min
Delta R.T.: -0.010 min
Response: 61299953
Conc: 0.37 PPB m



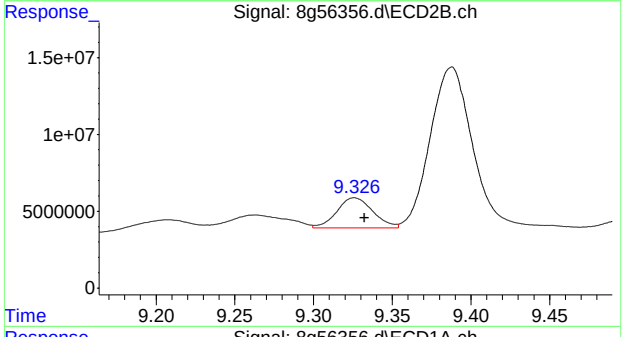
#13 alpha-Chlordane

R.T.: 9.063 min
Delta R.T.: -0.002 min
Response: 77267638
Conc: 0.27 PPB m



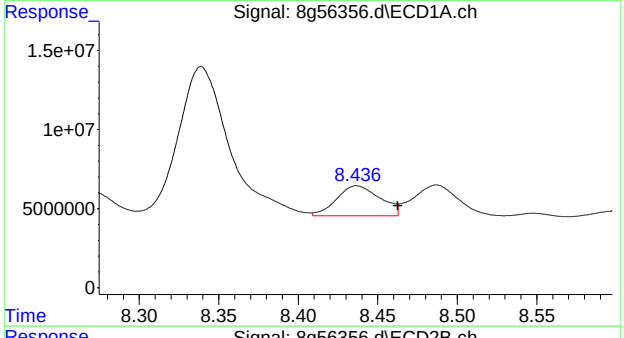
#15 4,4'-DDE

R.T.: 7.660 min
Delta R.T.: -0.019 min
Response: 35344647
Conc: 0.23 PPB



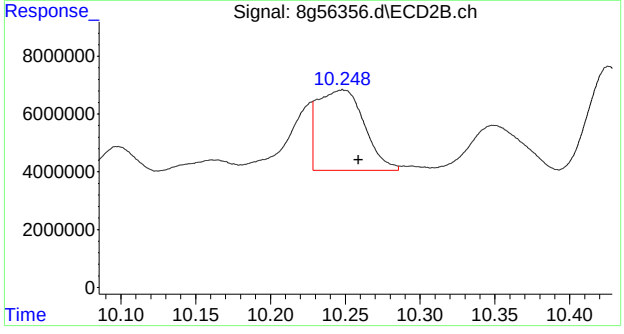
#15 4,4'-DDE

R.T.: 9.326 min
Delta R.T.: -0.007 min
Response: 31359725
Conc: 0.10 PPB m



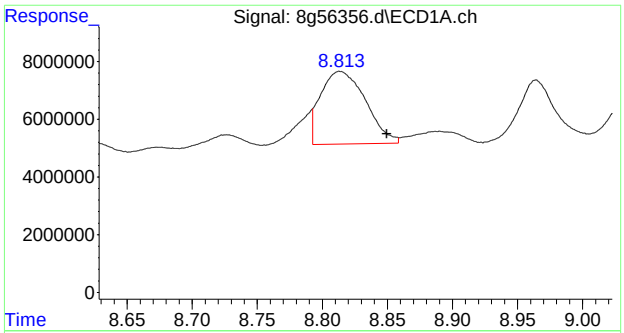
#18 4,4'-DDD

R.T.: 8.436 min
Delta R.T.: -0.027 min
Response: 36515016
Conc: 0.32 PPB m



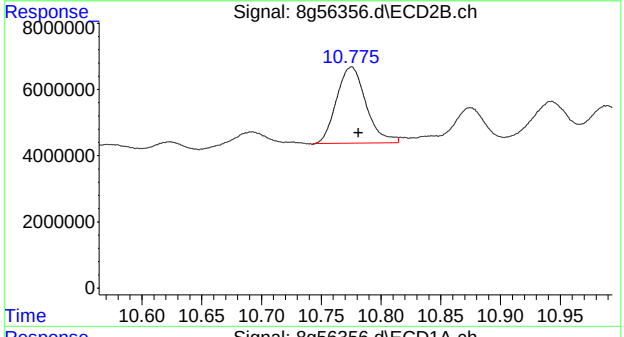
#18 4,4'-DDD

R.T.: 10.248 min
Delta R.T.: -0.011 min
Response: 59702396
Conc: 0.24 PPB m



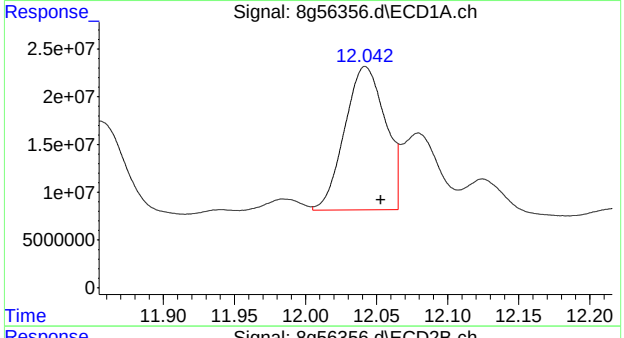
#20 4,4'-DDT

R.T.: 8.813 min
Delta R.T.: -0.037 min
Response: 60185510
Conc: 0.46 PPB m



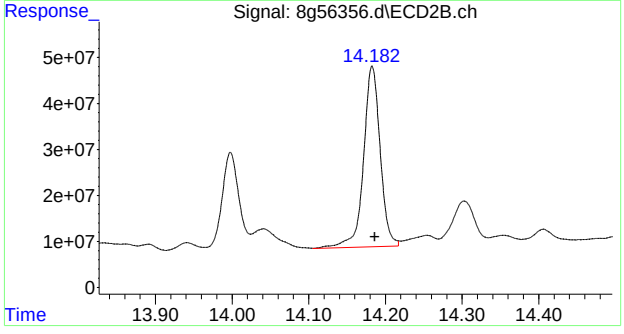
#20 4,4'-DDT

R.T.: 10.775 min
Delta R.T.: -0.006 min
Response: 39483863
Conc: 0.22 PPB m



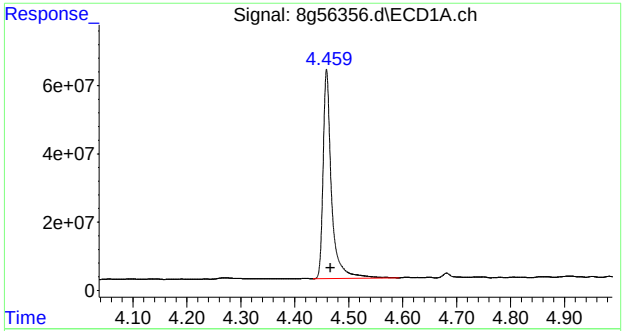
#26 Decachlorobiphenyl

R.T.: 12.042 min
Delta R.T.: -0.011 min
Response: 299733151
Conc: 2.01 PPB m



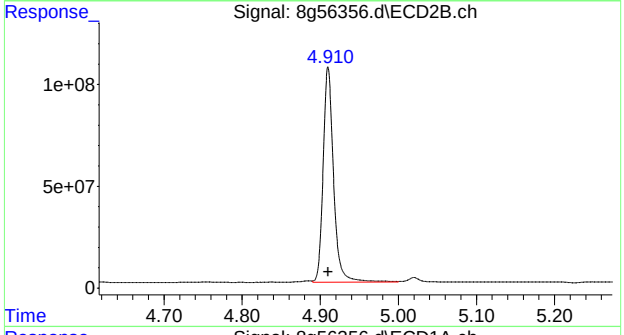
#26 Decachlorobiphenyl

R.T.: 14.182 min
Delta R.T.: -0.004 min
Response: 593619533
Conc: 4.33 PPB m



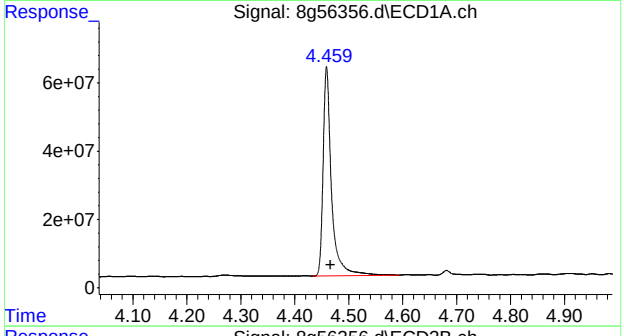
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.459 min
Delta R.T.: -0.006 min
Response: 662136178
Conc: 5.00 PPB



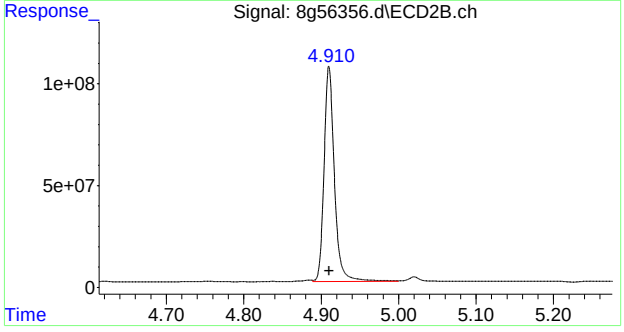
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.910 min
Delta R.T.: 0.000 min
Response: 983414832
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.459 min
Delta R.T.: -0.006 min
Response: 662136178
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.910 min
Delta R.T.: 0.000 min
Response: 983642627
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/24 15:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56357.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 8:35 am
Operator : christp
Sample : jd87833-10 m
Misc : op54452,g8g2470,5.5,,,10,1
ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 16:31:02 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.459	4.910	805.7E6	1003.1E6	5.000m	5.000m
27)	I 1-bromo-2...	4.459	4.910	807.5E6	1002.8E6	5.000m	5.000m
33)	I 1-bromo-2...	4.459	4.910	807.4E6	1002.7E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.071	5.734	542.1E6	1017.4E6	3.228m	3.446m
	Spiked Amount 40.000	Range 30 - 150		Recovery =		8.07%#	8.62%#
26)	SA Decachlor...	12.042	14.185	421.1E6	493.7E6	2.324m	3.531m#
	Spiked Amount 40.000			Recovery =		5.81%	8.83%
	Target Compounds						
7)	B beta-BHC	5.910	6.904f	10548222	12130304	0.096m	0.071 #
13)	B alpha-Chl...	7.543	9.065	23959237	22766670	0.120m	0.077m#
15)	B 4,4'-DDE	7.660f	9.327	28718059	34118792	0.151m	0.112m#
18)	A 4,4'-DDD	8.437f	10.251	11206579	19565422	0.080m	0.077m
20)	MA 4,4'-DDT	8.817f	10.774	11492731	7661435	0.073m	0.042m#

SemiQuant Compounds - Not Calibrated on this Instrument

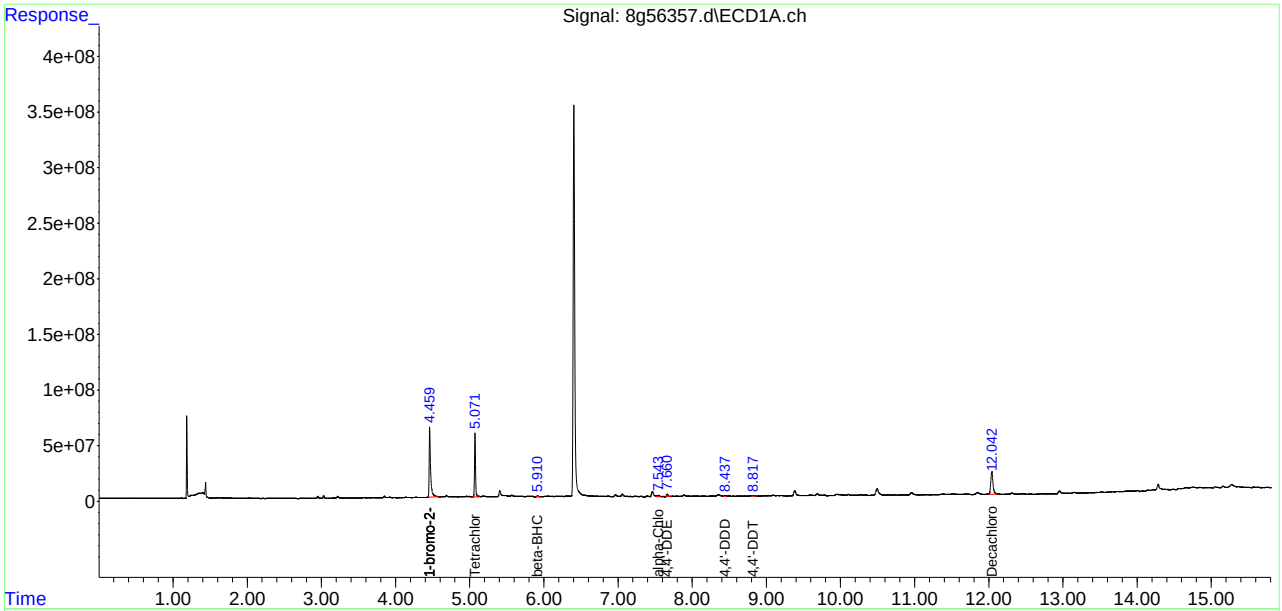
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

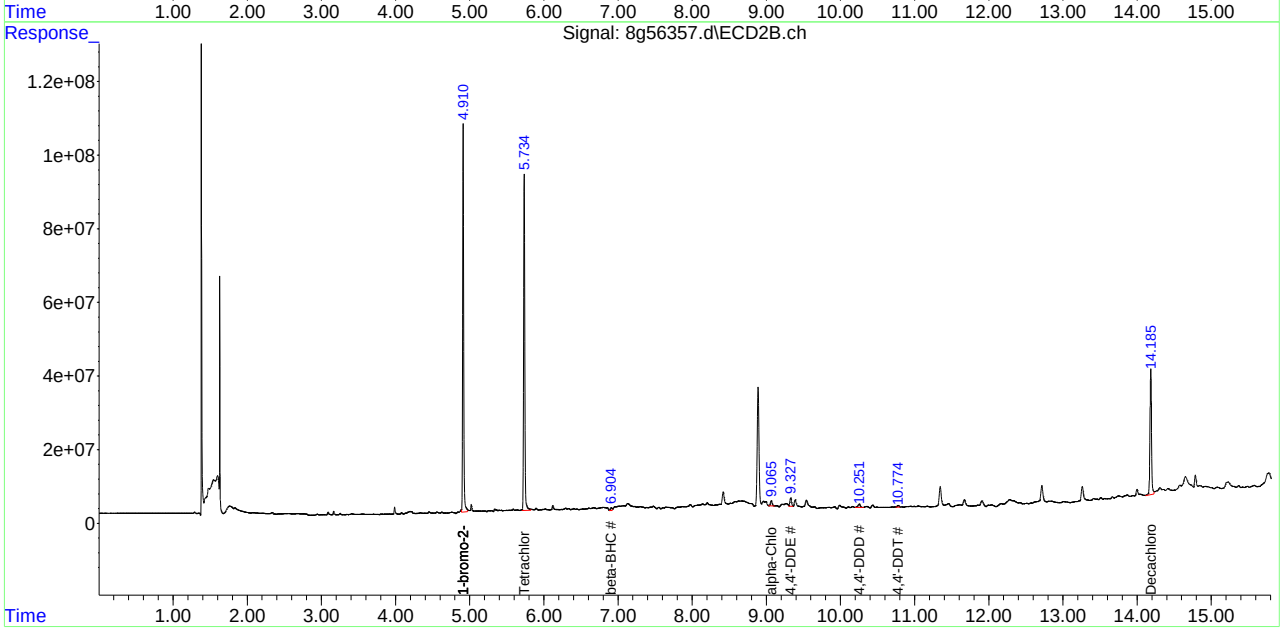
Quantitation Report (QT Reviewed)

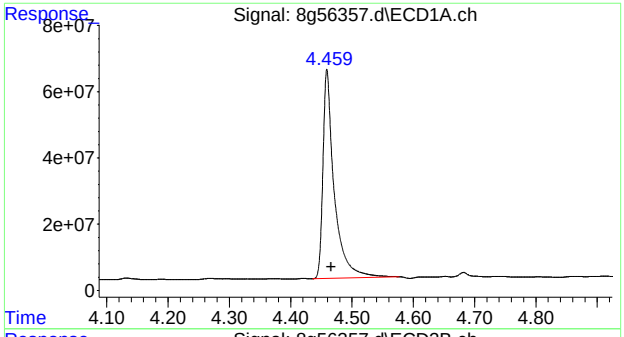
Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56357.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 8:35 am
Operator : christp
Sample : jd87833-10 m
Misc : op54452,g8g2470,5.5,,,10,1
ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 16:31:02 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

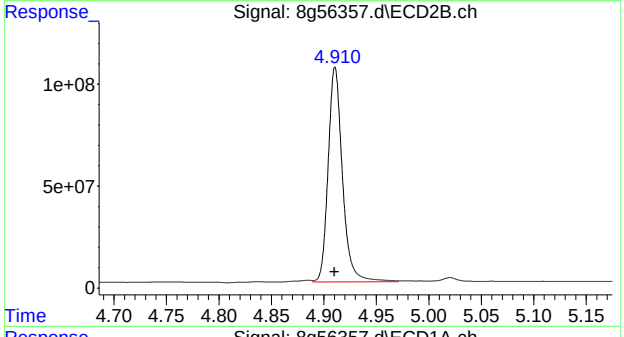






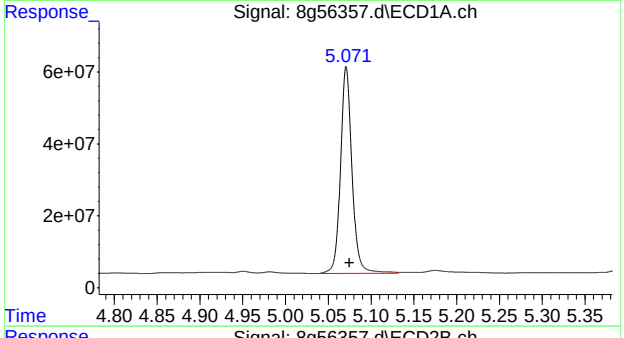
#1 1-bromo-2-nitrobenzene

R.T.: 4.459 min
Delta R.T.: -0.007 min
Response: 805738036
Conc: 5.00 PPB m



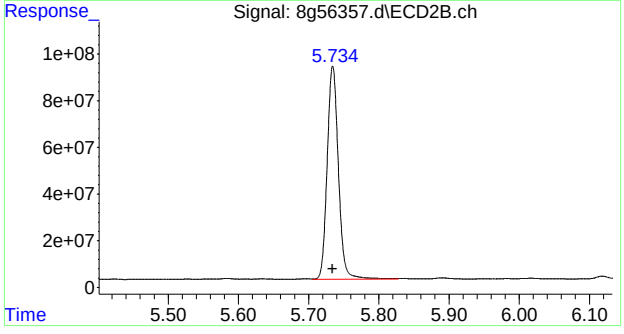
#1 1-bromo-2-nitrobenzene

R.T.: 4.910 min
Delta R.T.: 0.000 min
Response: 1003140844
Conc: 5.00 PPB m



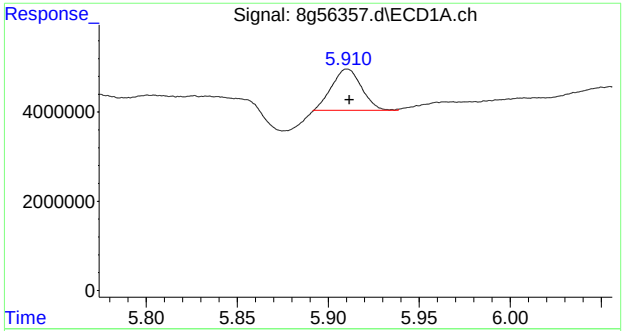
#2 Tetrachloro-m-xylene

R.T.: 5.071 min
Delta R.T.: -0.004 min
Response: 542091219
Conc: 3.23 PPB m



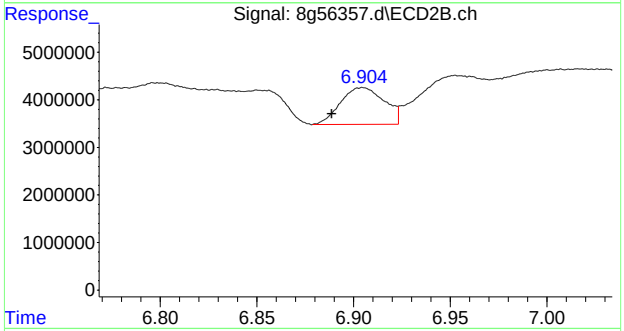
#2 Tetrachloro-m-xylene

R.T.: 5.734 min
Delta R.T.: 0.000 min
Response: 1017410750
Conc: 3.45 PPB m



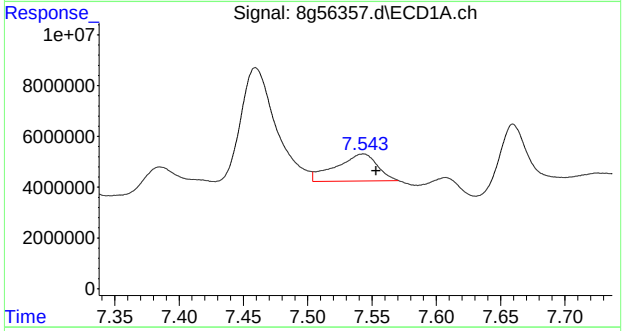
#7 beta-BHC

R.T.: 5.910 min
Delta R.T.: -0.002 min
Response: 10548222
Conc: 0.10 PPB m



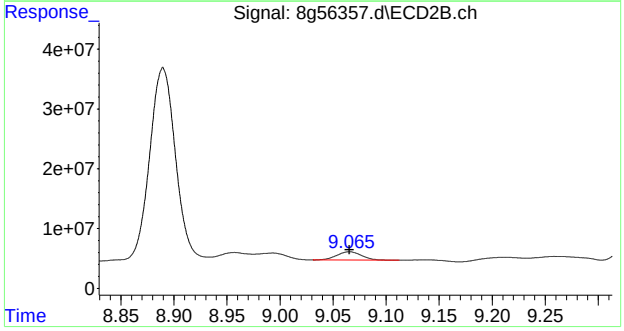
#7 beta-BHC

R.T.: 6.904 min
Delta R.T.: 0.016 min
Response: 12130304
Conc: 0.07 PPB



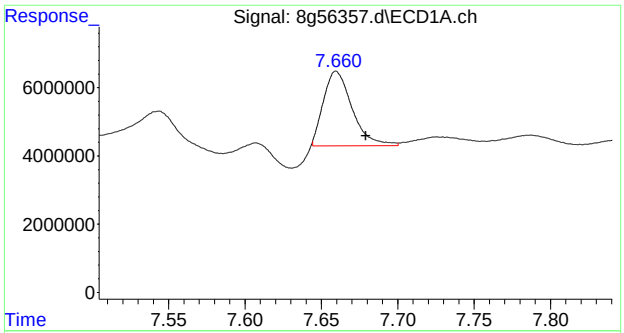
#13 alpha-Chlordane

R.T.: 7.543 min
Delta R.T.: -0.010 min
Response: 23959237
Conc: 0.12 PPB m



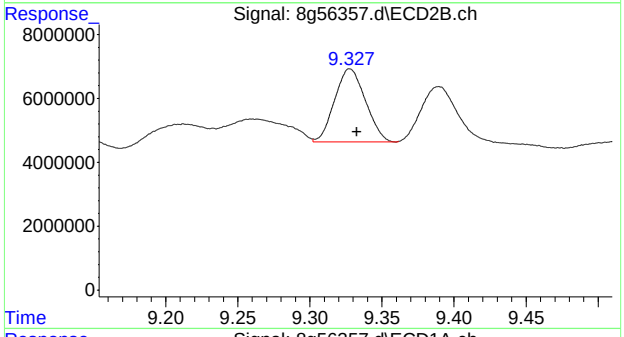
#13 alpha-Chlordane

R.T.: 9.065 min
Delta R.T.: 0.000 min
Response: 22766670
Conc: 0.08 PPB m



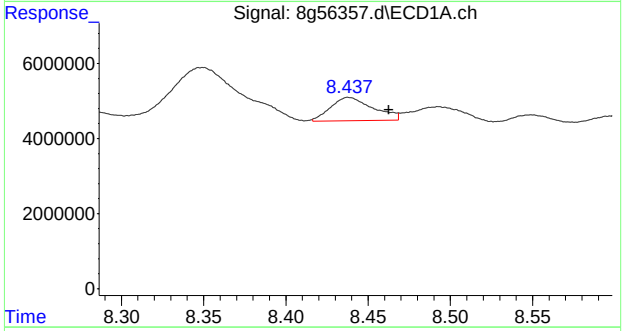
#15 4,4'-DDE

R.T.: 7.660 min
Delta R.T.: -0.019 min
Response: 28718059
Conc: 0.15 PPB m



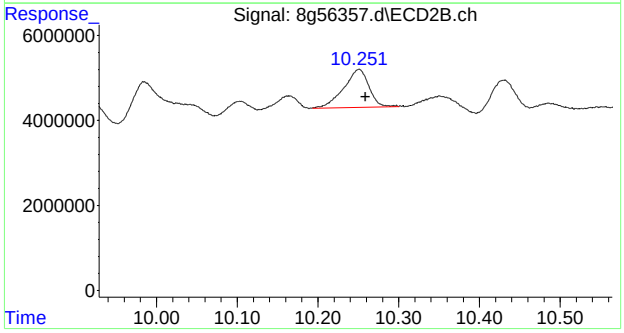
#15 4,4'-DDE

R.T.: 9.327 min
Delta R.T.: -0.005 min
Response: 34118792
Conc: 0.11 PPB m



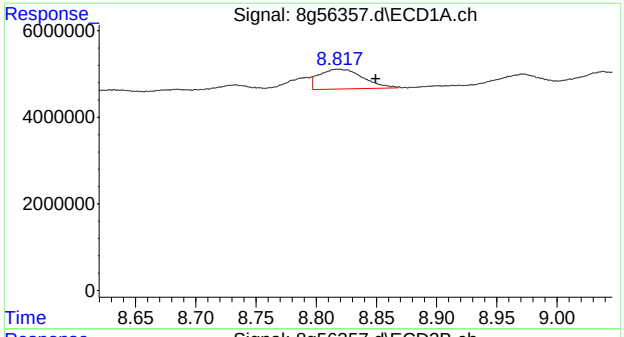
#18 4,4'-DDD

R.T.: 8.437 min
Delta R.T.: -0.025 min
Response: 11206579
Conc: 0.08 PPB m



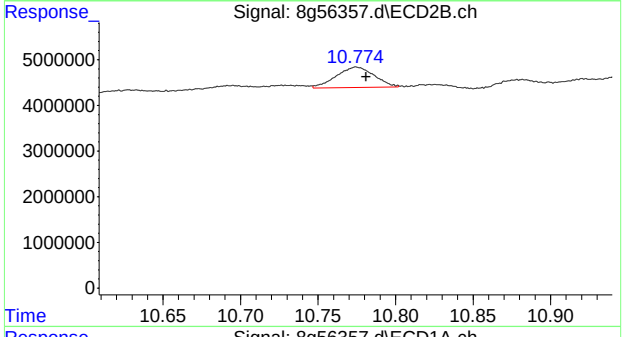
#18 4,4'-DDD

R.T.: 10.251 min
Delta R.T.: -0.008 min
Response: 19565422
Conc: 0.08 PPB m



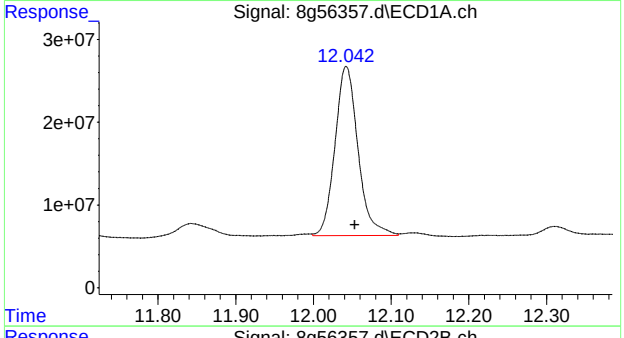
#20 4,4'-DDT

R.T.: 8.817 min
Delta R.T.: -0.032 min
Response: 11492731
Conc: 0.07 PPB m



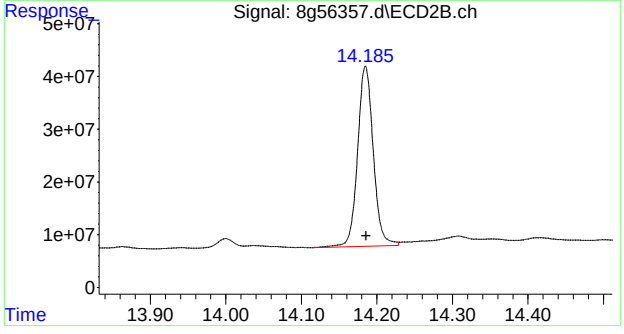
#20 4,4'-DDT

R.T.: 10.774 min
Delta R.T.: -0.007 min
Response: 7661435
Conc: 0.04 PPB m



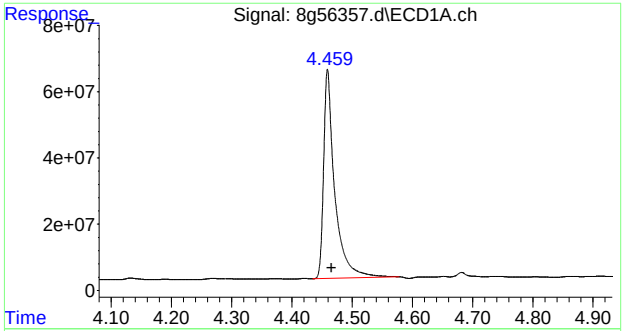
#26 Decachlorobiphenyl

R.T.: 12.042 min
Delta R.T.: -0.011 min
Response: 421095432
Conc: 2.32 PPB m



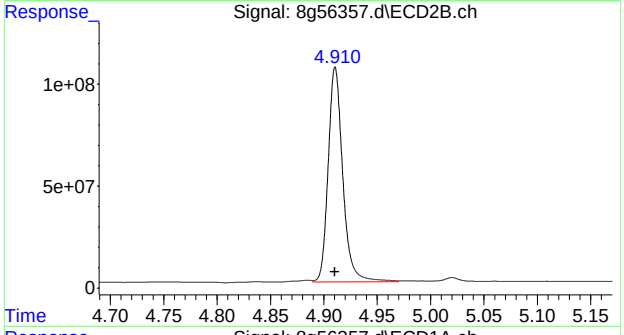
#26 Decachlorobiphenyl

R.T.: 14.185 min
Delta R.T.: -0.001 min
Response: 493669289
Conc: 3.53 PPB m



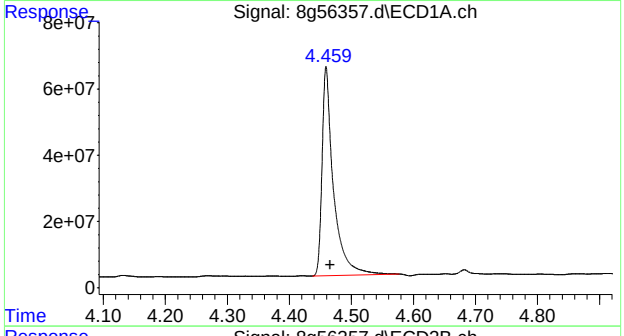
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.459 min
Delta R.T.: -0.007 min
Response: 807469585
Conc: 5.00 PPB m



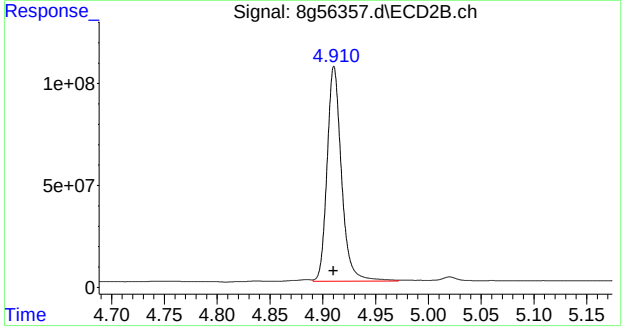
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.910 min
Delta R.T.: 0.000 min
Response: 1002814978
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.459 min
Delta R.T.: -0.007 min
Response: 807434758
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.910 min
Delta R.T.: 0.000 min
Response: 1002660970
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Sarah Cruz
05/13/24 02:50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g8g2472_2\
Data File : 8g56434.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 May 2024 3:41 pm
Operator : christp
Sample : jd87833-11 m
Misc : op54452,g8g2472,5.3,,,10,1
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 06:31:07 2024
Quant Method : C:\msdchem\1\data\g8g2472_2\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Fri May 10 12:20:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.501	4.954	601.8E6	1053.5E6	5.000	5.000
27)	I 1-bromo-2...	4.501	4.954	601.8E6	1053.5E6	5.000	5.000
33)	I 1-bromo-2...	4.501	4.954	601.8E6	1053.5E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.124f	5.787f	491.7E6	994.5E6	3.919m	3.208m
	Spiked Amount 40.000	Range 30 - 150		Recovery =		9.80%#	8.02%#
26)	SA Decachlor...	12.078	14.198	370.4E6	488.7E6	2.737m	3.328m
	Spiked Amount 40.000			Recovery =		6.84%	8.32%
	Target Compounds						
12)	B gamma-Chl...	7.408	8.884f	24922364	124.9E6	0.158m	0.370m#
13)	B alpha-Chl...	7.595f	9.102f	145.8E6	143.9E6	0.981m	0.462m#
15)	B 4,4'-DDE	7.712f	9.361f	446.8E6	824.0E6	3.138m	2.566m
18)	A 4,4'-DDD	8.485f	10.282	36704306	85282576	0.352m	0.321m
20)	MA 4,4'-DDT	8.878f	10.802	77039680	147.8E6	0.652	0.768m
	SemiQuant Compounds - Not Calibrated on this Instrument						

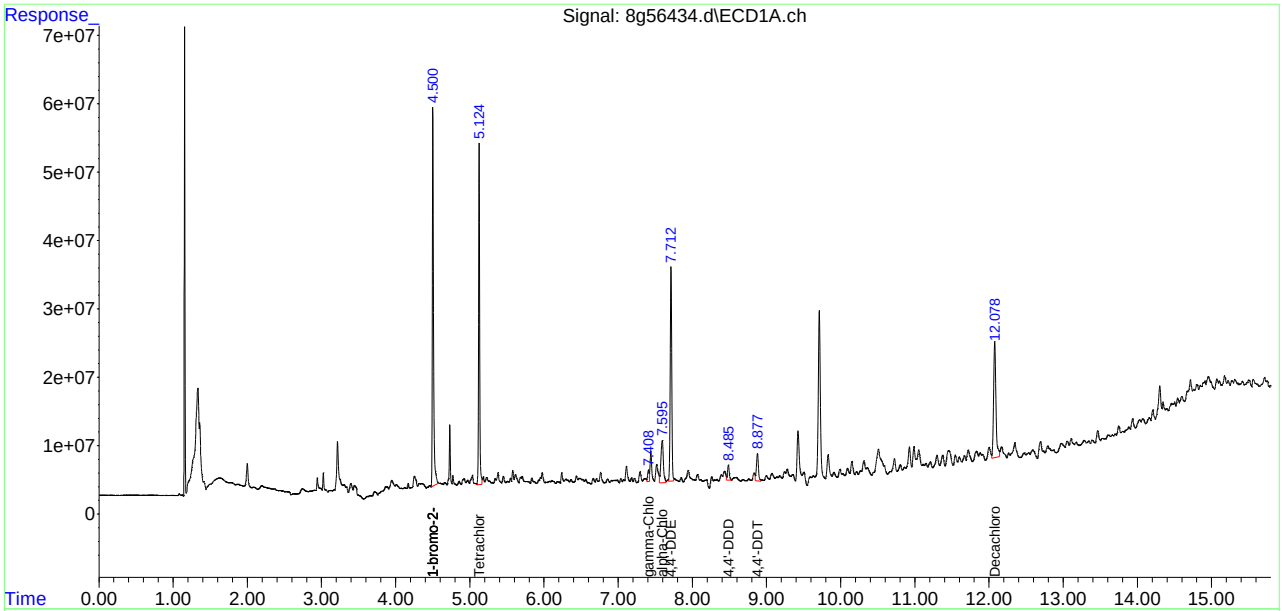
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

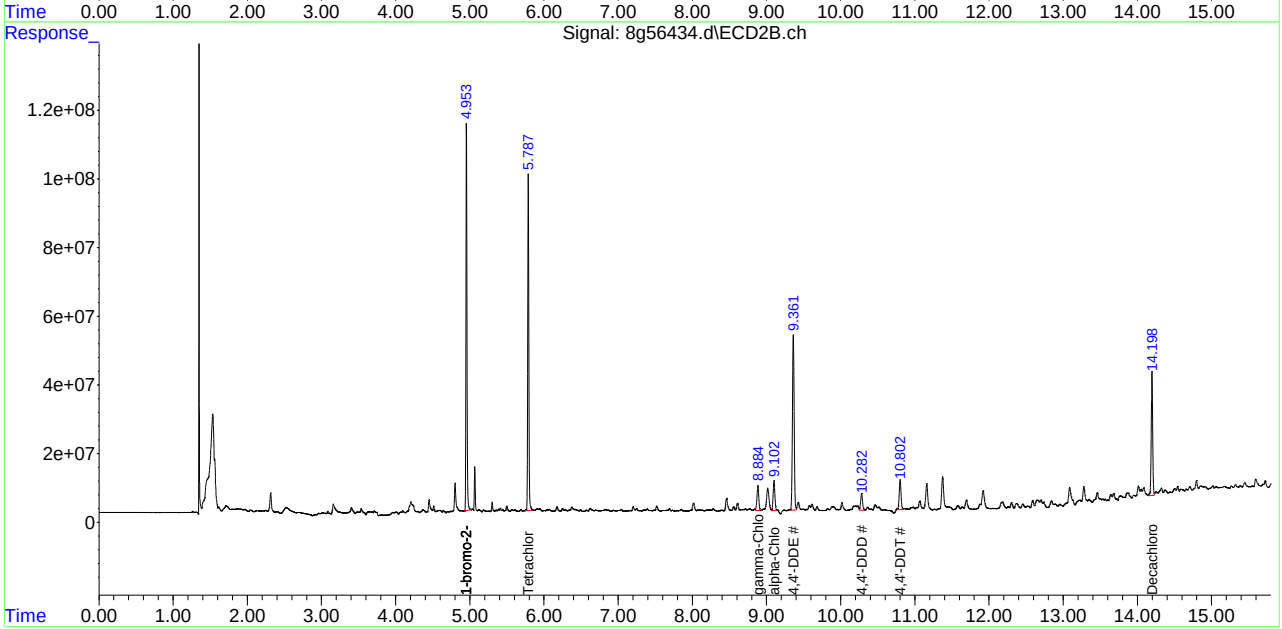
Quantitation Report (QT Reviewed)

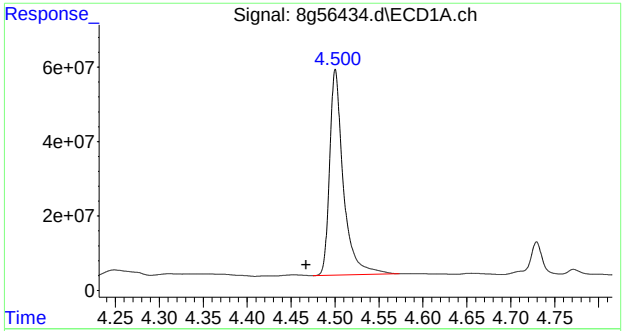
Data Path : C:\msdchem\1\data\g8g2472_2\
Data File : 8g56434.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 May 2024 3:41 pm
Operator : christp
Sample : jd87833-11 m
Misc : op54452,g8g2472,5.3,,,10,1
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 06:31:07 2024
Quant Method : C:\msdchem\1\data\g8g2472_2\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Fri May 10 12:20:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

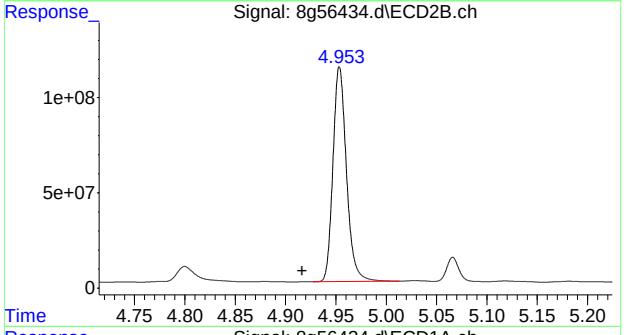






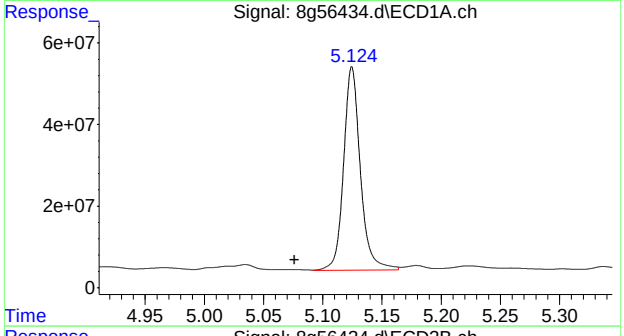
#1 1-bromo-2-nitrobenzene

R.T.: 4.501 min
Delta R.T.: 0.034 min
Response: 601827581
Conc: 5.00 PPB



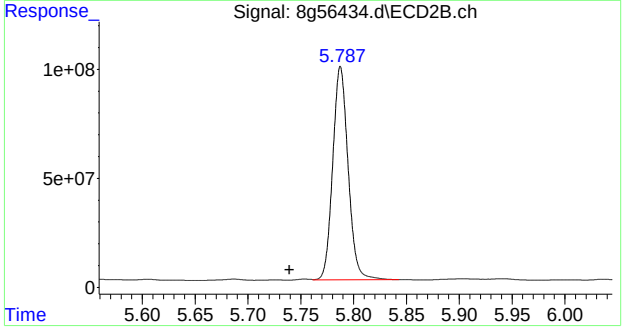
#1 1-bromo-2-nitrobenzene

R.T.: 4.954 min
Delta R.T.: 0.037 min
Response: 1053488676
Conc: 5.00 PPB



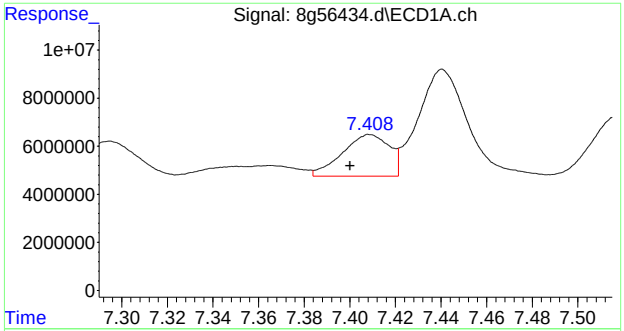
#2 Tetrachloro-m-xylene

R.T.: 5.124 min
Delta R.T.: 0.048 min
Response: 491659494
Conc: 3.92 PPB m



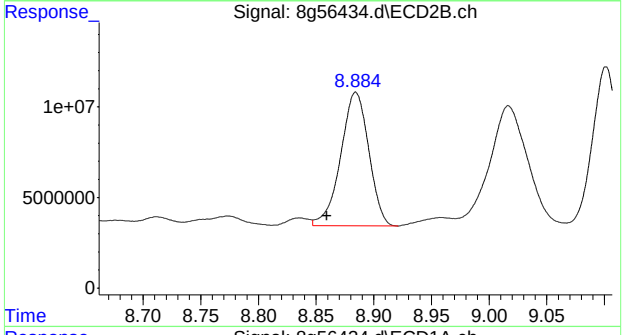
#2 Tetrachloro-m-xylene

R.T.: 5.787 min
Delta R.T.: 0.048 min
Response: 994510680
Conc: 3.21 PPB m



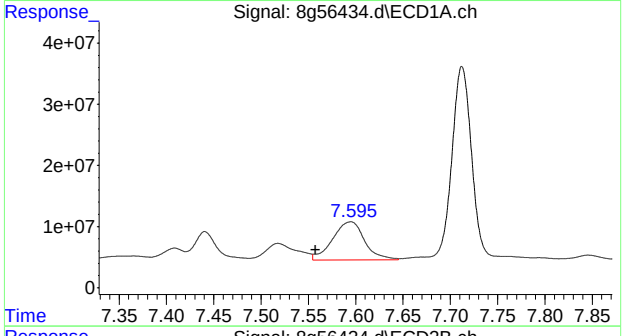
#12 gamma-Chlordane

R.T.: 7.408 min
Delta R.T.: 0.008 min
Response: 24922364
Conc: 0.16 PPB m



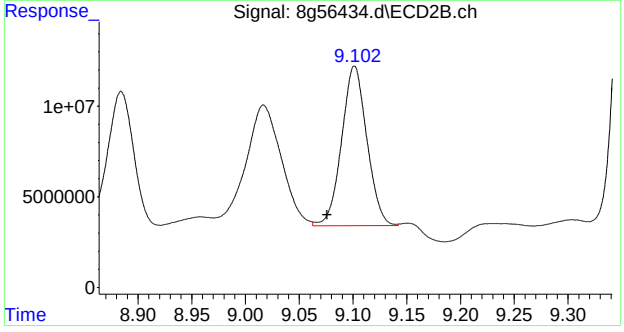
#12 gamma-Chlordane

R.T.: 8.884 min
Delta R.T.: 0.025 min
Response: 124878907
Conc: 0.37 PPB m



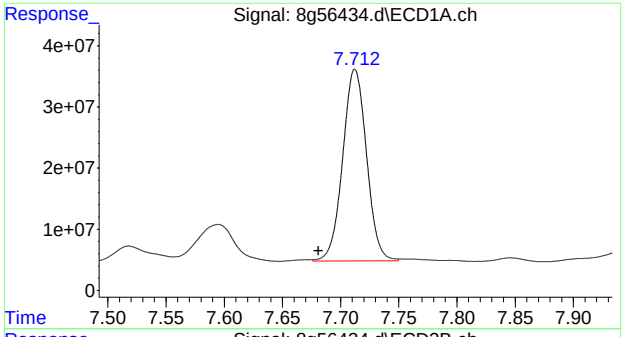
#13 alpha-Chlordane

R.T.: 7.595 min
Delta R.T.: 0.038 min
Response: 145818982
Conc: 0.98 PPB m



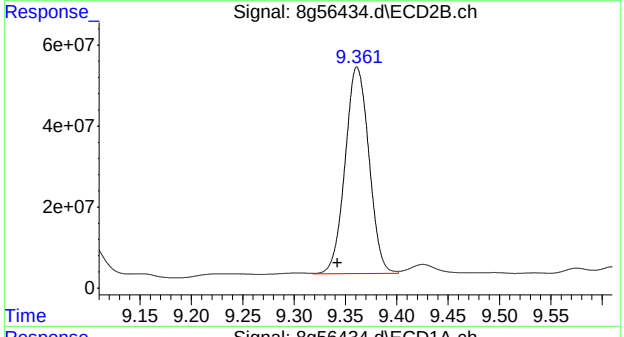
#13 alpha-Chlordane

R.T.: 9.102 min
Delta R.T.: 0.026 min
Response: 143931400
Conc: 0.46 PPB m



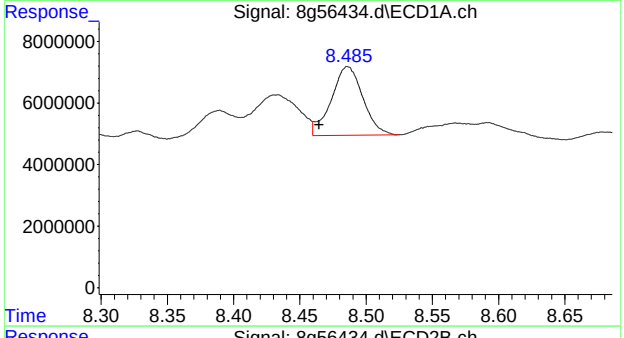
#15 4,4'-DDE

R.T.: 7.712 min
Delta R.T.: 0.031 min
Response: 446768355
Conc: 3.14 PPB m



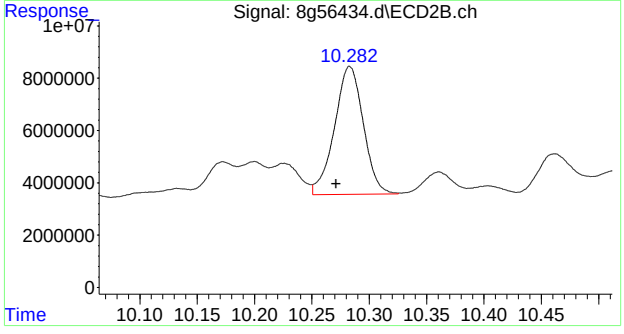
#15 4,4'-DDE

R.T.: 9.361 min
Delta R.T.: 0.019 min
Response: 824013528
Conc: 2.57 PPB m



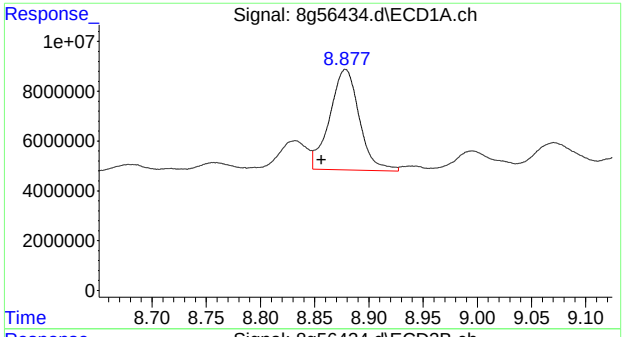
#18 4,4'-DDD

R.T.: 8.485 min
Delta R.T.: 0.021 min
Response: 36704306
Conc: 0.35 PPB m



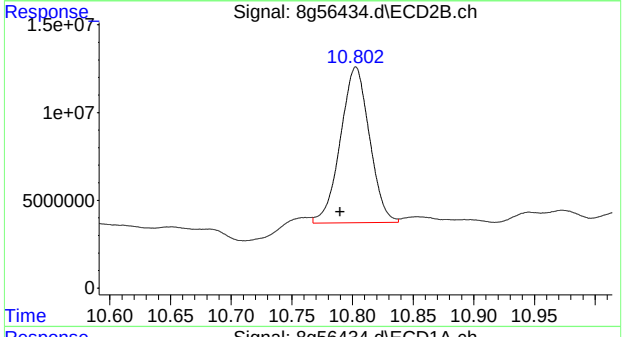
#18 4,4'-DDD

R.T.: 10.282 min
Delta R.T.: 0.011 min
Response: 85282576
Conc: 0.32 PPB m



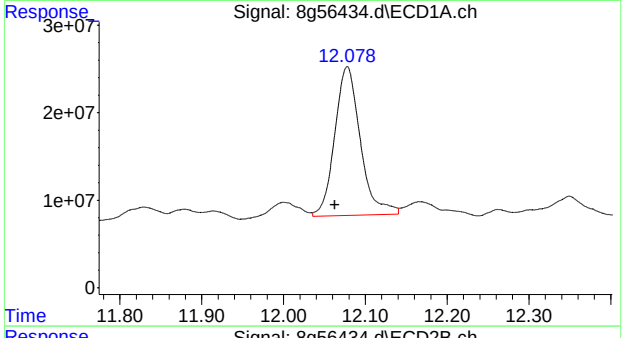
#20 4,4'-DDT

R.T.: 8.878 min
Delta R.T.: 0.022 min
Response: 77039680
Conc: 0.65 PPB



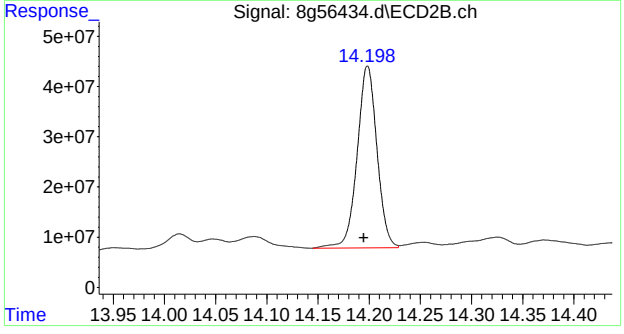
#20 4,4'-DDT

R.T.: 10.802 min
Delta R.T.: 0.013 min
Response: 147822026
Conc: 0.77 PPB m



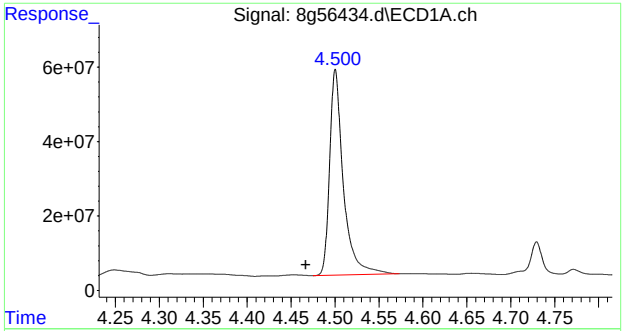
#26 Decachlorobiphenyl

R.T.: 12.078 min
Delta R.T.: 0.015 min
Response: 370411837
Conc: 2.74 PPB m



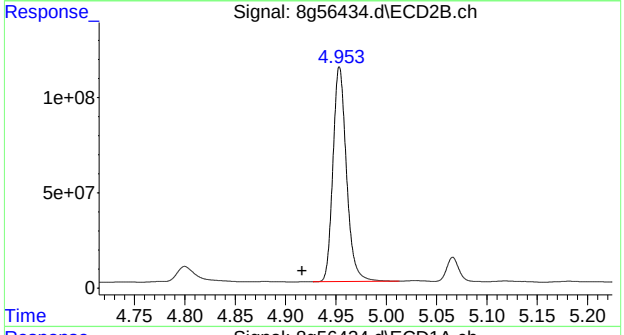
#26 Decachlorobiphenyl

R.T.: 14.198 min
Delta R.T.: 0.003 min
Response: 488708782
Conc: 3.33 PPB m



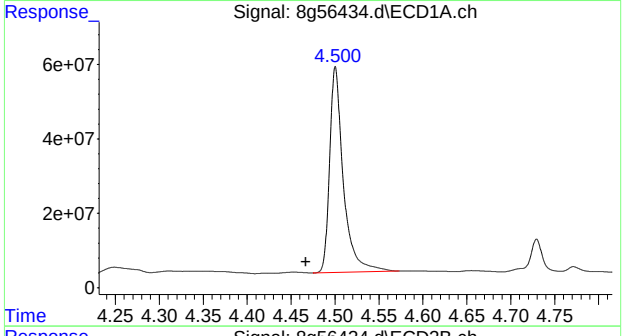
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.501 min
Delta R.T.: 0.034 min
Response: 601827581
Conc: 5.00 PPB



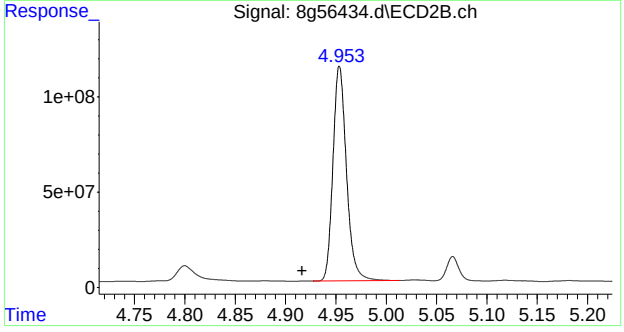
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.954 min
Delta R.T.: 0.037 min
Response: 1053488676
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.501 min
Delta R.T.: 0.034 min
Response: 601827581
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.954 min
Delta R.T.: 0.037 min
Response: 1053488676
Conc: 5.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/24 15:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56359.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 9:19 am
Operator : christp
Sample : jd87833-12 m
Misc : op54452,g8g2470,5.4,,,10,1
ALS Vial : 83 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 16:38:34 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.454	4.907	791.1E6	887.2E6	5.000m	5.000
27)	I 1-bromo-2...	4.454	4.907	790.8E6	887.2E6	5.000m	5.000
33)	I 1-bromo-2...	4.454	4.907	790.0E6	887.2E6	5.000m	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.067	5.730	448.6E6	928.2E6	2.721m	3.555m#
	Spiked Amount	40.000	Range 30 - 150	Recovery	=	6.80%#	8.89%#
26)	SA Decachlor...	12.042	14.185	337.9E6	398.9E6	1.900m	3.226m#
	Spiked Amount	40.000		Recovery	=	4.75%	8.06%
	Target Compounds						
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.1.12

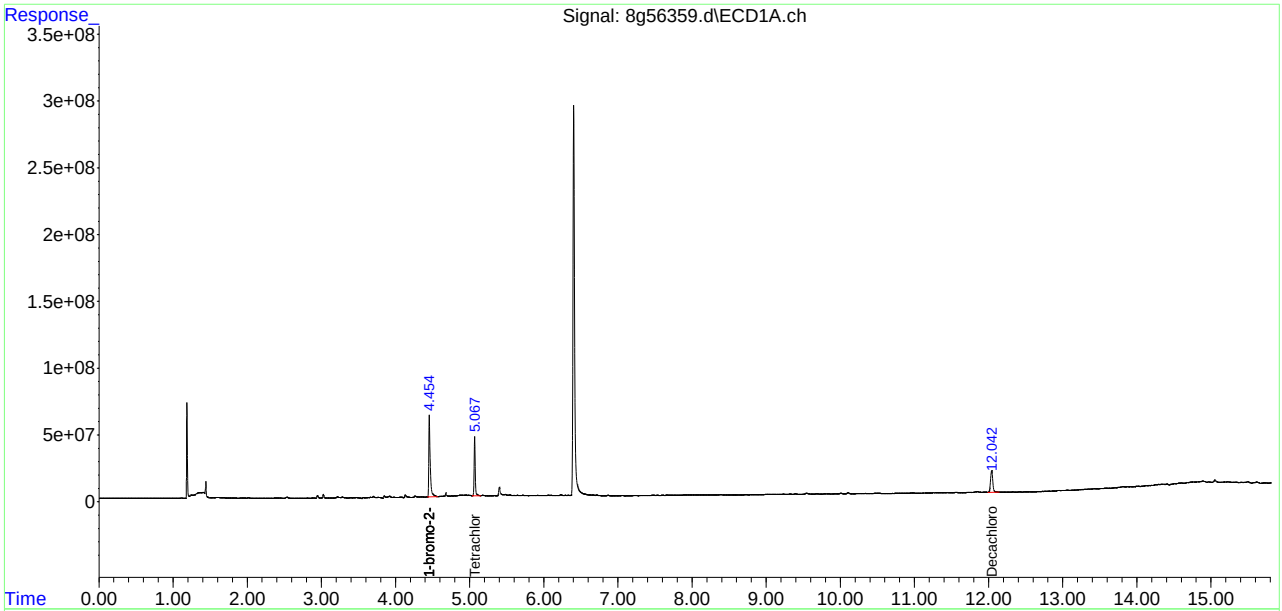
9

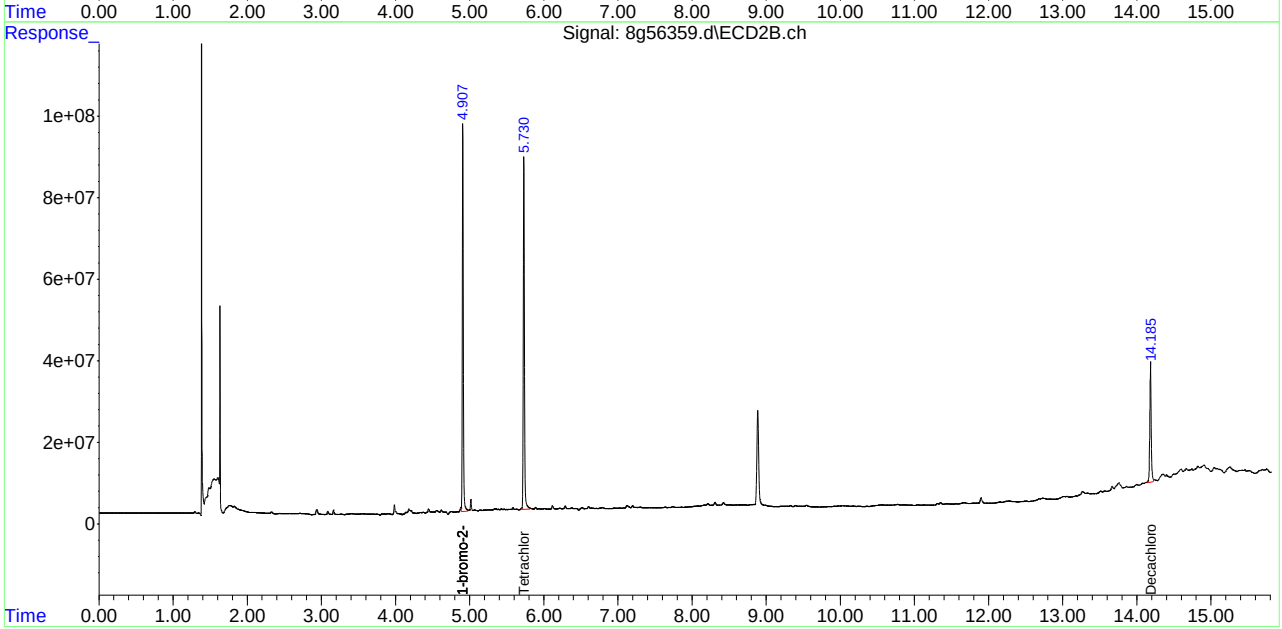
Quantitation Report (QT Reviewed)

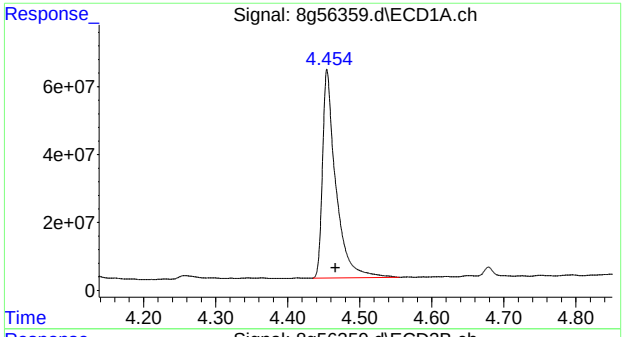
Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56359.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 9:19 am
Operator : christp
Sample : jd87833-12 m
Misc : op54452,g8g2470,5.4,,,10,1
ALS Vial : 83 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 16:38:34 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

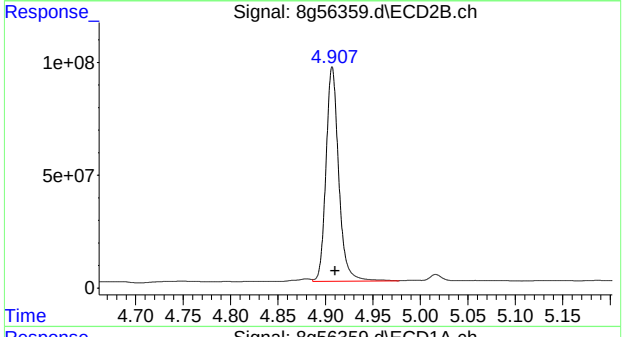






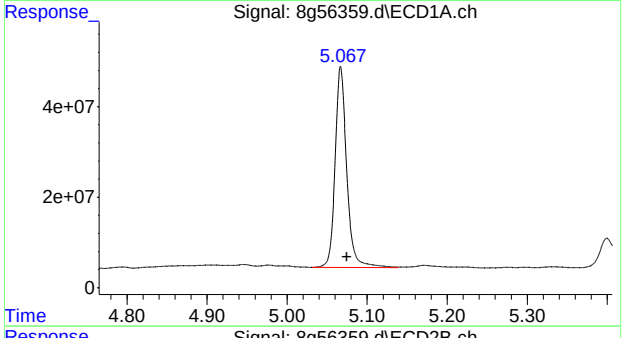
#1 1-bromo-2-nitrobenzene

R.T.: 4.454 min
Delta R.T.: -0.012 min
Response: 791057542
Conc: 5.00 PPB m



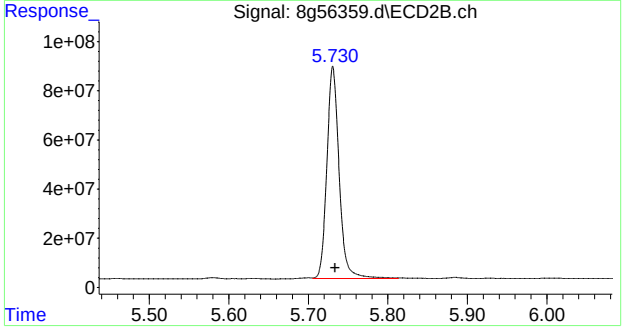
#1 1-bromo-2-nitrobenzene

R.T.: 4.907 min
Delta R.T.: -0.003 min
Response: 887232198
Conc: 5.00 PPB



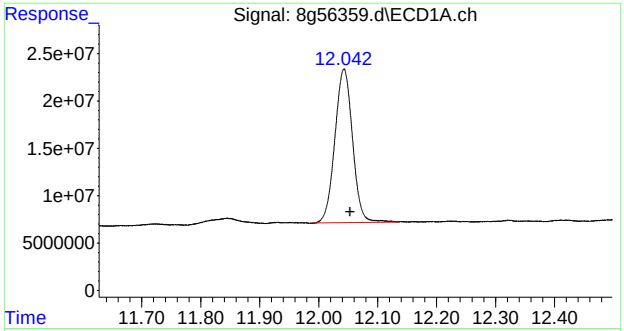
#2 Tetrachloro-m-xylene

R.T.: 5.067 min
Delta R.T.: -0.008 min
Response: 448574833
Conc: 2.72 PPB m



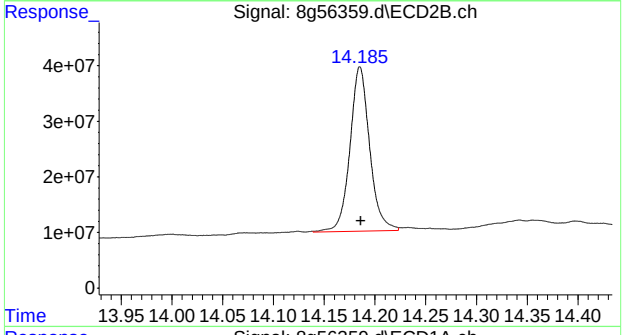
#2 Tetrachloro-m-xylene

R.T.: 5.730 min
Delta R.T.: -0.003 min
Response: 928215499
Conc: 3.55 PPB m



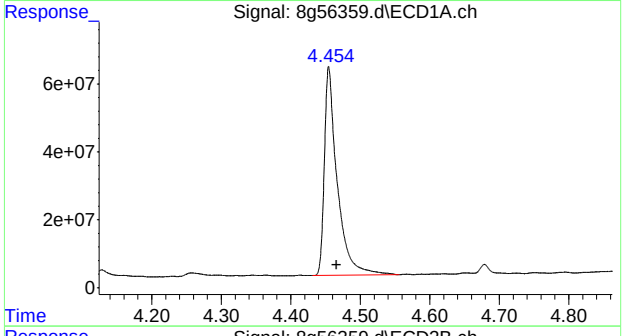
#26 Decachlorobiphenyl

R.T.: 12.042 min
Delta R.T.: -0.011 min
Response: 337921964
Conc: 1.90 PPB m



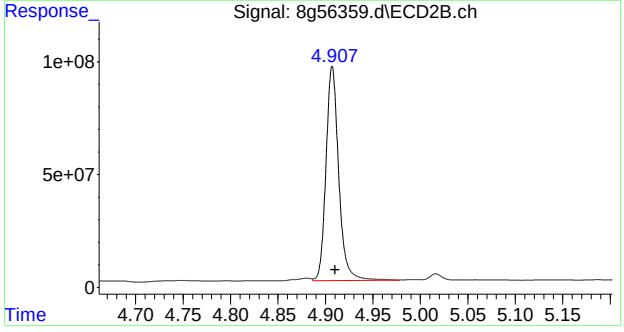
#26 Decachlorobiphenyl

R.T.: 14.185 min
Delta R.T.: 0.000 min
Response: 398878185
Conc: 3.23 PPB m



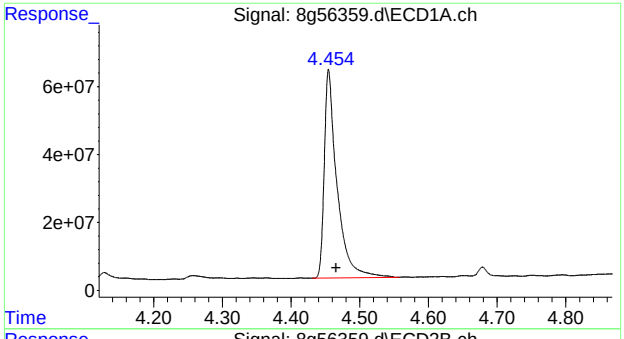
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.454 min
Delta R.T.: -0.012 min
Response: 790774026
Conc: 5.00 PPB m



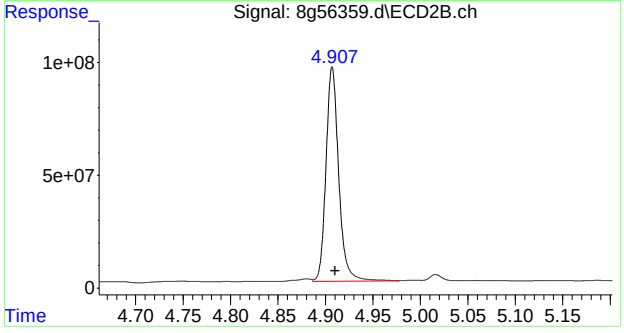
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.907 min
Delta R.T.: -0.003 min
Response: 887232198
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.454 min
Delta R.T.: -0.012 min
Response: 789952694
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.907 min
Delta R.T.: -0.003 min
Response: 887232198
Conc: 5.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/24 15:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56360.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 9:40 am
Operator : christp
Sample : jd87833-14 m
Misc : op54452,g8g2470,5.3,,,10,1
ALS Vial : 84 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 16:45:11 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.460	4.911	662.5E6	949.7E6	5.000	5.000m
27)	I 1-bromo-2...	4.460	4.911	662.5E6	949.4E6	5.000	5.000m
33)	I 1-bromo-2...	4.460	4.911	662.5E6	948.9E6	5.000	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.073	5.736	546.1E6	985.4E6	3.955	3.525
	Spiked Amount 40.000	Range 30 - 150		Recovery =		9.89%#	8.81%#
26)	SA Decachlor...	12.042	14.185	362.2E6	465.4E6	2.431m	3.516m#
	Spiked Amount 40.000			Recovery =		6.08%	8.79%
	Target Compounds						
7)	B beta-BHC	5.910	6.902	25893933	7018734	0.287m	0.043 #
11)	B Heptachlo...	7.234	8.569	115.1E6	109.7E6	0.782m	0.363m#
12)	B gamma-Chl...	7.387	8.845	258.9E6	375.7E6	1.489m	1.235m
13)	B alpha-Chl...	7.544	9.065	532.5E6	588.7E6	3.254m	2.097m#
15)	B 4,4'-DDE	7.660f	9.328	828.4E6	1257.9E6	5.286m	4.346m
16)	MA Dieldrin	8.013	9.575	59234966	90456665	0.349m	0.293m
18)	A 4,4'-DDD	8.437f	10.252	252.3E6	461.0E6	2.200m	1.922m
20)	MA 4,4'-DDT	8.834f	10.775	148.2E6	240.1E6	1.140m	1.384m
	SemiQuant Compounds - Not Calibrated on this Instrument						

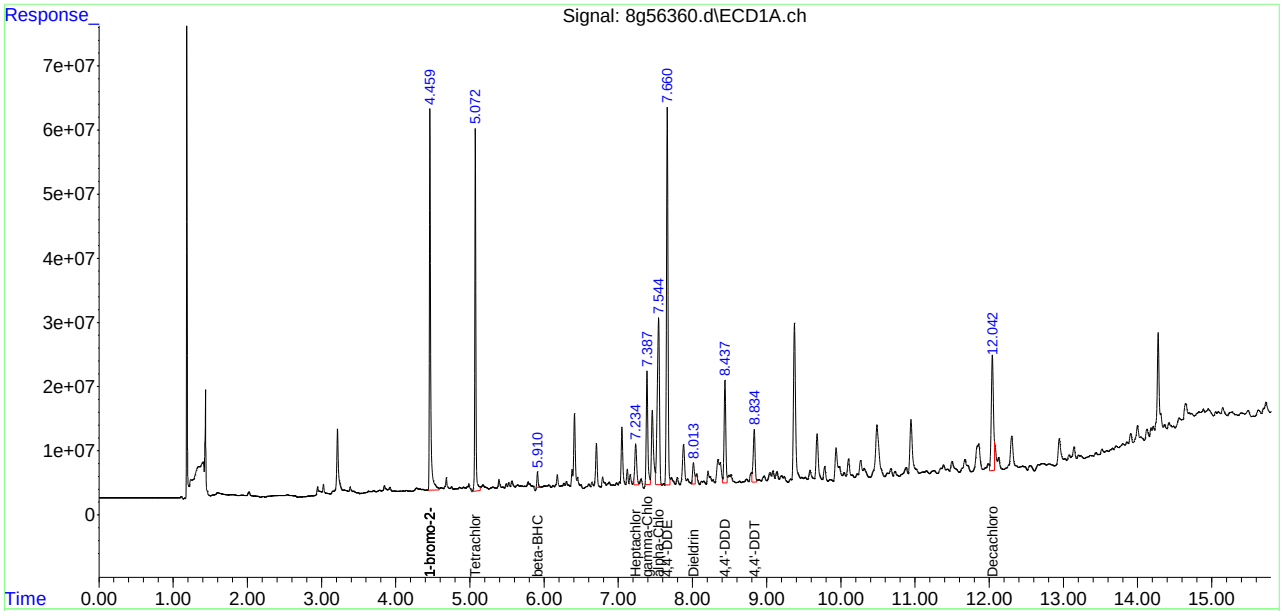
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

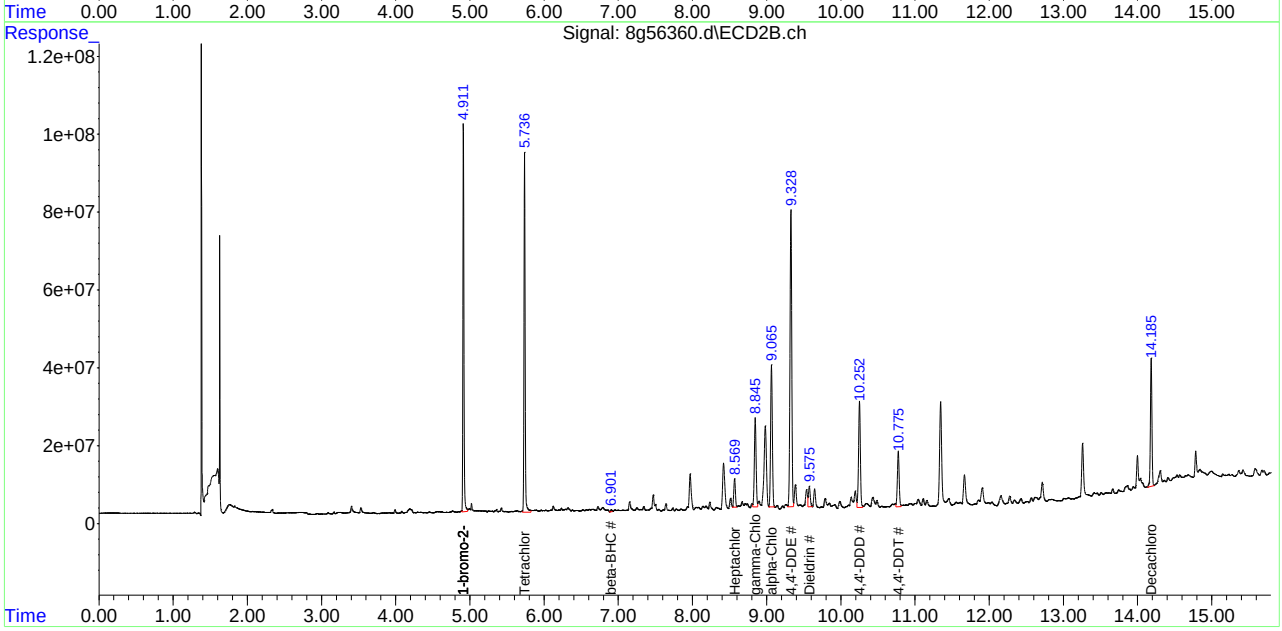
Quantitation Report (QT Reviewed)

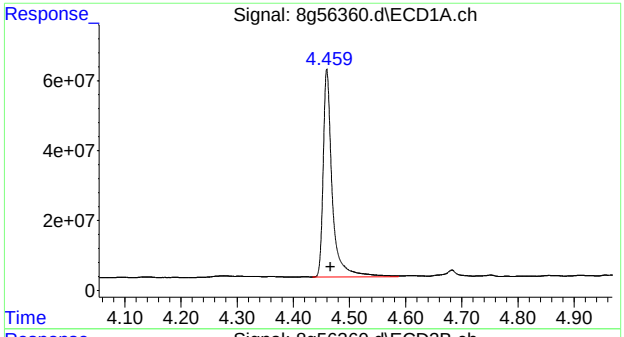
Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56360.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 9:40 am
Operator : christp
Sample : jd87833-14 m
Misc : op54452,g8g2470,5.3,,,10,1
ALS Vial : 84 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 16:45:11 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

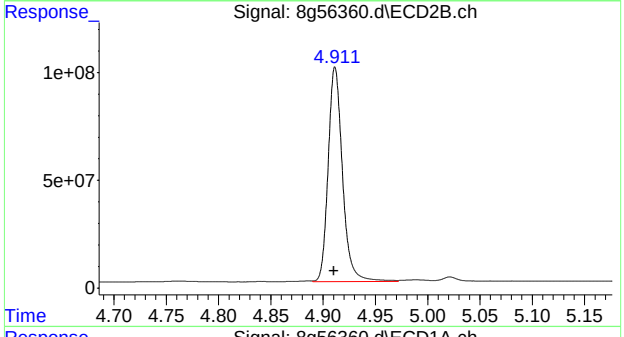






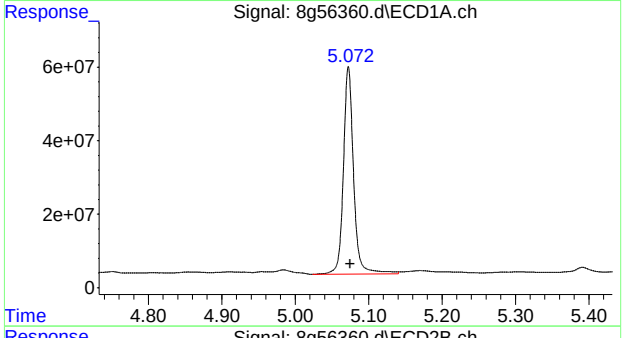
#1 1-bromo-2-nitrobenzene

R.T.: 4.460 min
Delta R.T.: -0.006 min
Response: 662476006
Conc: 5.00 PPB



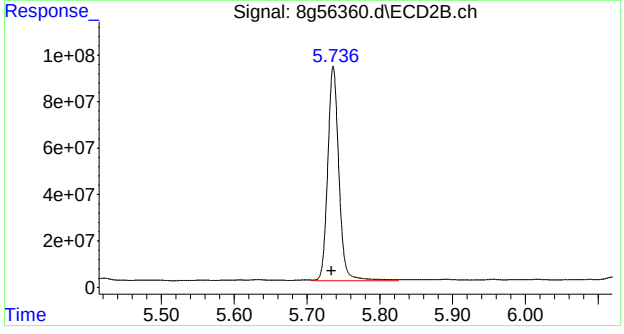
#1 1-bromo-2-nitrobenzene

R.T.: 4.911 min
Delta R.T.: 0.000 min
Response: 949733832
Conc: 5.00 PPB m



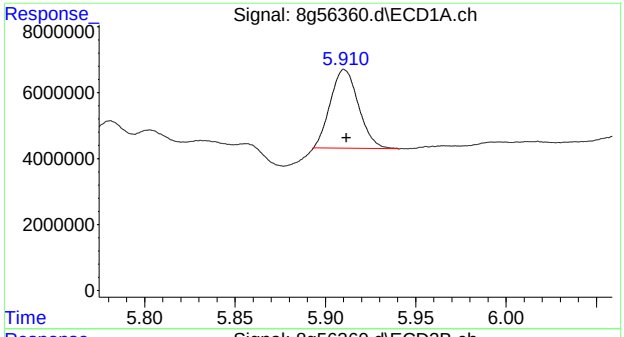
#2 Tetrachloro-m-xylene

R.T.: 5.073 min
Delta R.T.: -0.002 min
Response: 546062585
Conc: 3.95 PPB



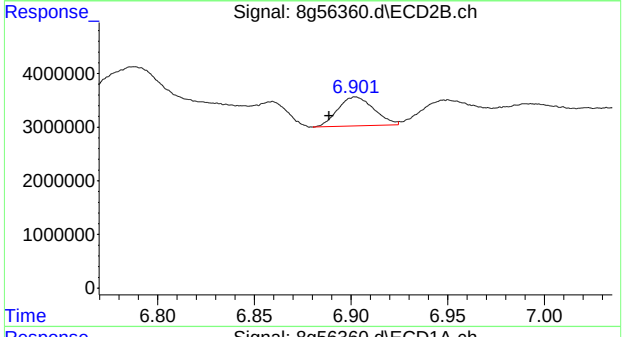
#2 Tetrachloro-m-xylene

R.T.: 5.736 min
Delta R.T.: 0.003 min
Response: 985350794
Conc: 3.53 PPB



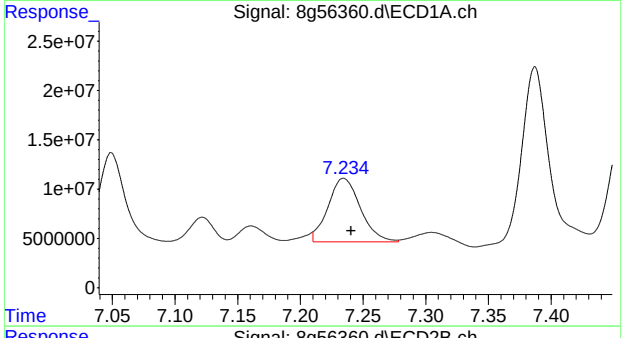
#7 beta-BHC

R.T.: 5.910 min
Delta R.T.: -0.002 min
Response: 25893933
Conc: 0.29 PPB m



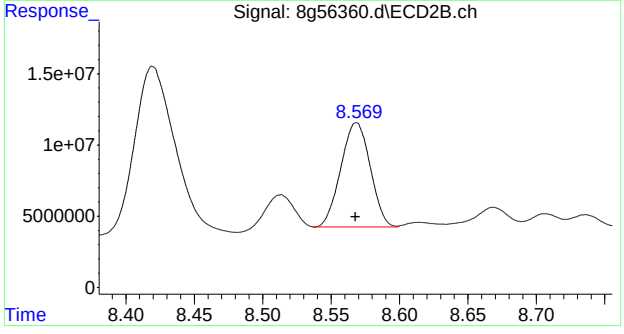
#7 beta-BHC

R.T.: 6.902 min
Delta R.T.: 0.014 min
Response: 7018734
Conc: 0.04 PPB



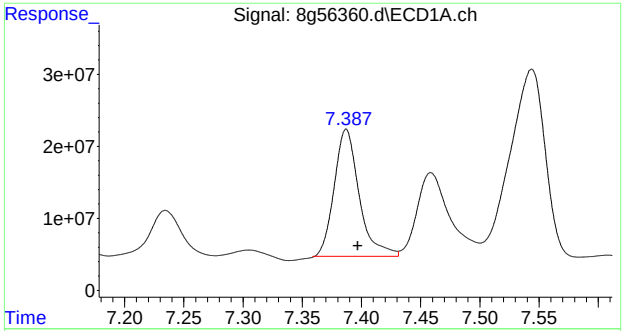
#11 Heptachlor Epoxide

R.T.: 7.234 min
Delta R.T.: -0.006 min
Response: 115091297
Conc: 0.78 PPB m



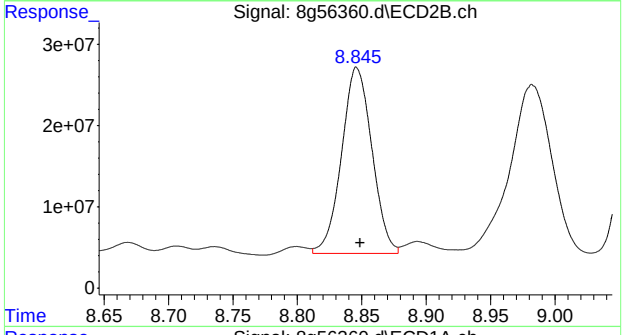
#11 Heptachlor Epoxide

R.T.: 8.569 min
Delta R.T.: 0.000 min
Response: 109700404
Conc: 0.36 PPB m



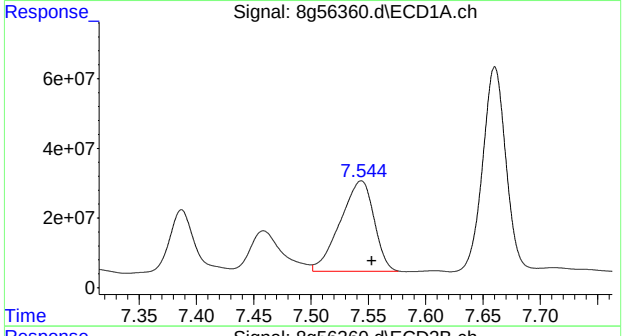
#12 gamma-Chlordane

R.T.: 7.387 min
Delta R.T.: -0.010 min
Response: 258932294
Conc: 1.49 PPB m



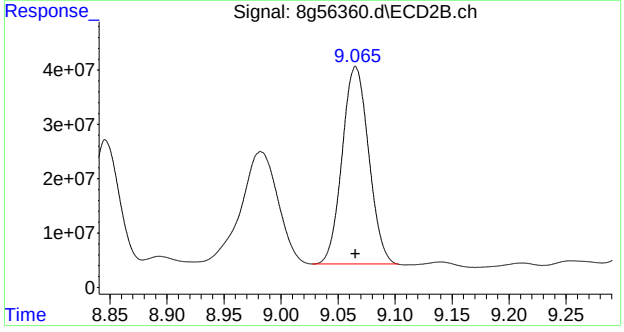
#12 gamma-Chlordane

R.T.: 8.845 min
Delta R.T.: -0.004 min
Response: 375666871
Conc: 1.23 PPB m



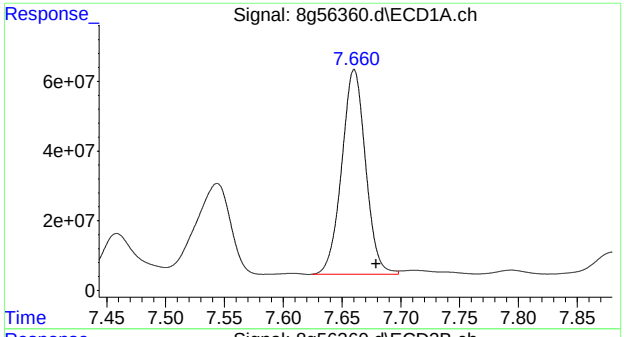
#13 alpha-Chlordane

R.T.: 7.544 min
Delta R.T.: -0.009 min
Response: 532506482
Conc: 3.25 PPB m



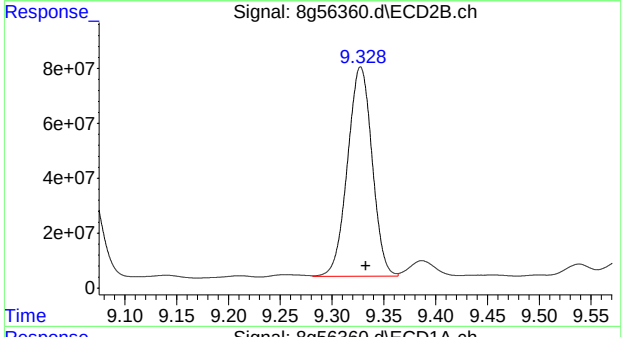
#13 alpha-Chlordane

R.T.: 9.065 min
Delta R.T.: 0.000 min
Response: 588697277
Conc: 2.10 PPB m



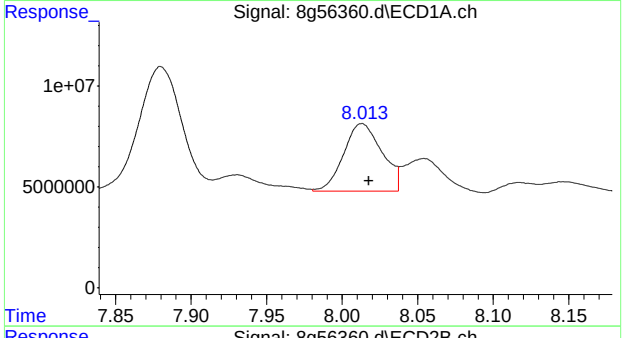
#15 4,4'-DDE

R.T.: 7.660 min
Delta R.T.: -0.019 min
Response: 828404636
Conc: 5.29 PPB m



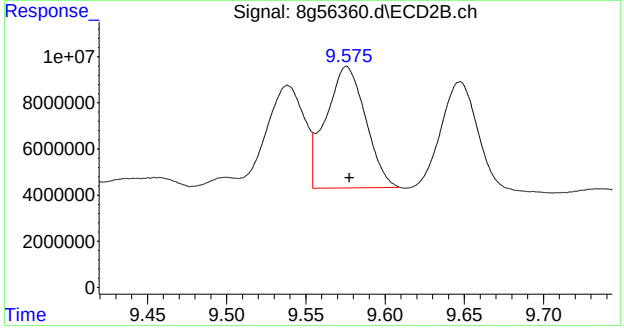
#15 4,4'-DDE

R.T.: 9.328 min
Delta R.T.: -0.005 min
Response: 1257891412
Conc: 4.35 PPB m



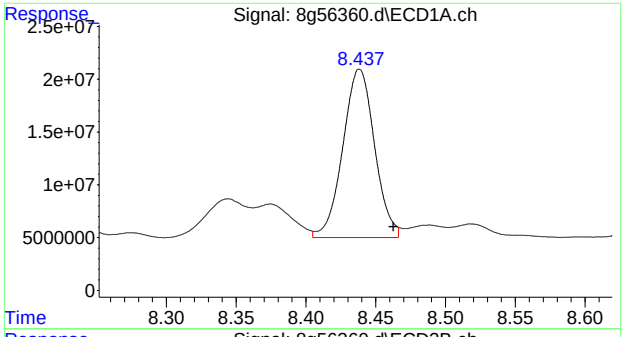
#16 Dieldrin

R.T.: 8.013 min
Delta R.T.: -0.004 min
Response: 59234966
Conc: 0.35 PPB m



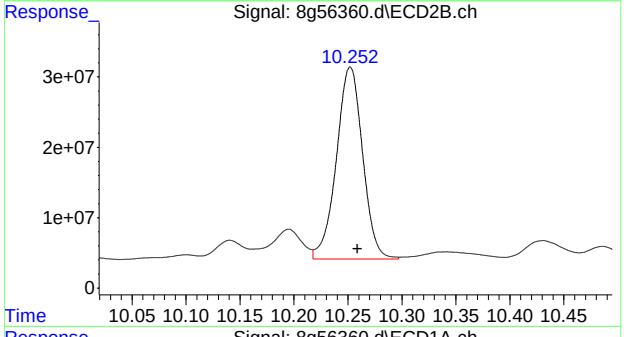
#16 Dieldrin

R.T.: 9.575 min
Delta R.T.: -0.002 min
Response: 90456665
Conc: 0.29 PPB m



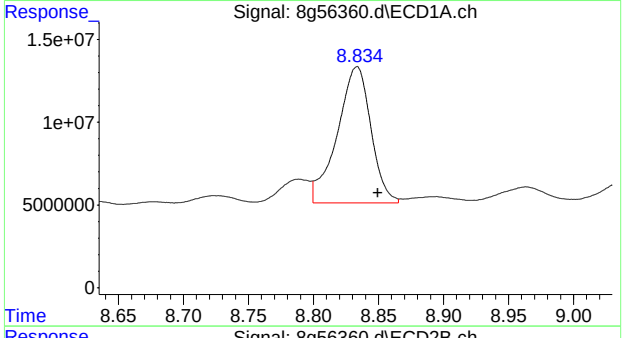
#18 4,4'-DDD

R.T.: 8.437 min
Delta R.T.: -0.025 min
Response: 252309742
Conc: 2.20 PPB m



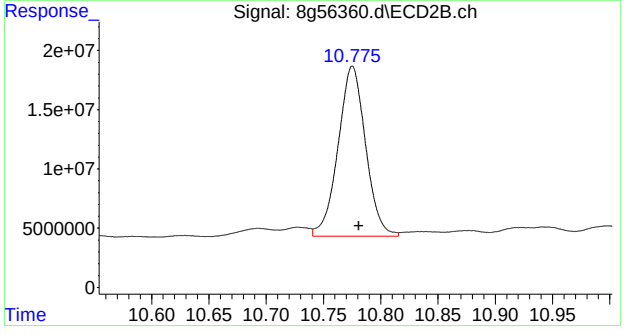
#18 4,4'-DDD

R.T.: 10.252 min
Delta R.T.: -0.007 min
Response: 461038259
Conc: 1.92 PPB m



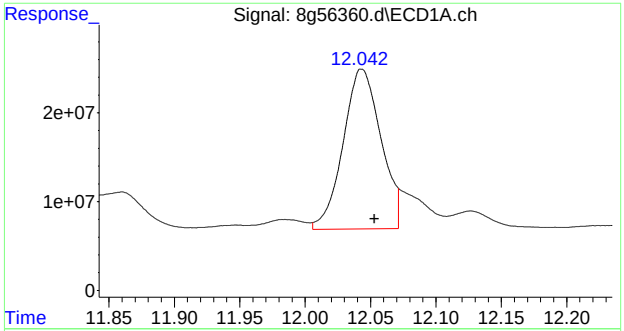
#20 4,4'-DDT

R.T.: 8.834 min
Delta R.T.: -0.016 min
Response: 148191880
Conc: 1.14 PPB m



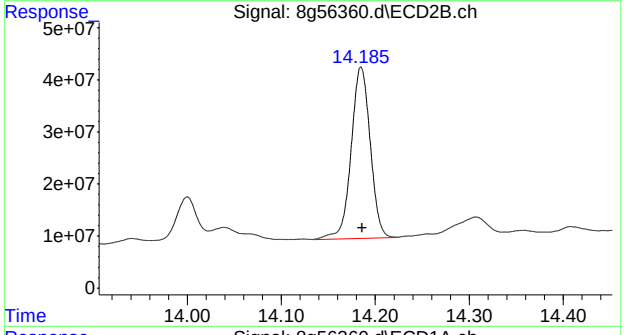
#20 4,4'-DDT

R.T.: 10.775 min
Delta R.T.: -0.006 min
Response: 240062020
Conc: 1.38 PPB m



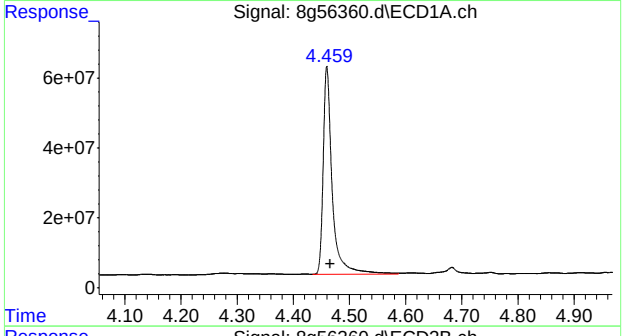
#26 Decachlorobiphenyl

R.T.: 12.042 min
Delta R.T.: -0.011 min
Response: 362220532
Conc: 2.43 PPB m



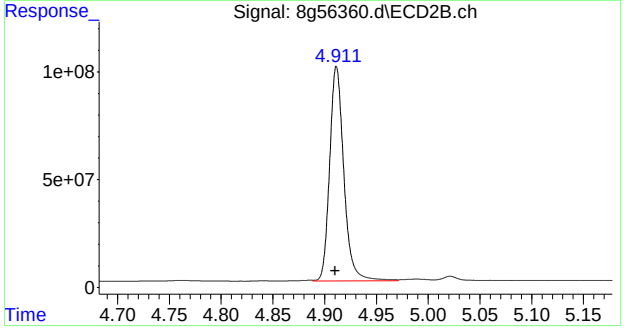
#26 Decachlorobiphenyl

R.T.: 14.185 min
Delta R.T.: -0.001 min
Response: 465388149
Conc: 3.52 PPB m



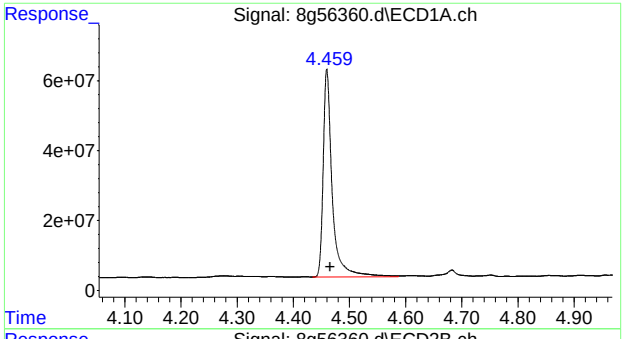
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.460 min
Delta R.T.: -0.006 min
Response: 662476006
Conc: 5.00 PPB



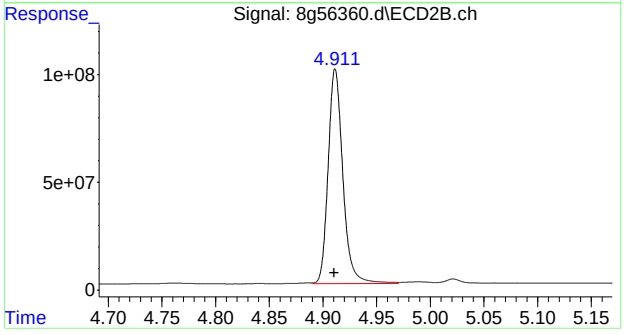
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.911 min
Delta R.T.: 0.000 min
Response: 949408090
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.460 min
Delta R.T.: -0.006 min
Response: 662476006
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.911 min
Delta R.T.: 0.000 min
Response: 948949214
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/24 15:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56361.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 10:02 am
Operator : christp
Sample : jd87833-15 m
Misc : op54452,g8g2470,5.1,,,10,1
ALS Vial : 85 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 16:51:38 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.459	4.912	633.2E6	917.7E6	5.000m	5.000
27)	I 1-bromo-2...	4.459	4.912	635.4E6	917.7E6	5.000m	5.000
33)	I 1-bromo-2...	4.459	4.912	634.5E6	917.7E6	5.000m	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.071	5.737	492.5E6	895.0E6	3.731m	3.314m
	Spiked Amount 40.000	Range 30 - 150		Recovery =		9.33%#	8.29%#
26)	SA Decachlor...	12.043	14.184	318.2E6	546.0E6	2.235m	4.269m#
	Spiked Amount 40.000			Recovery =		5.59%	10.67%
	Target Compounds						
7)	B beta-BHC	5.909	6.903	50151396	9267516	0.582m	0.059 #
13)	B alpha-Chl...	7.547	9.067	13353612	19287286	0.085m	0.071m
18)	A 4,4'-DDD	8.440f	10.244	29056121	22339952	0.265m	0.096m#
20)	MA 4,4'-DDT	8.813f	10.775	50409533	20706960	0.406m	0.124m#

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

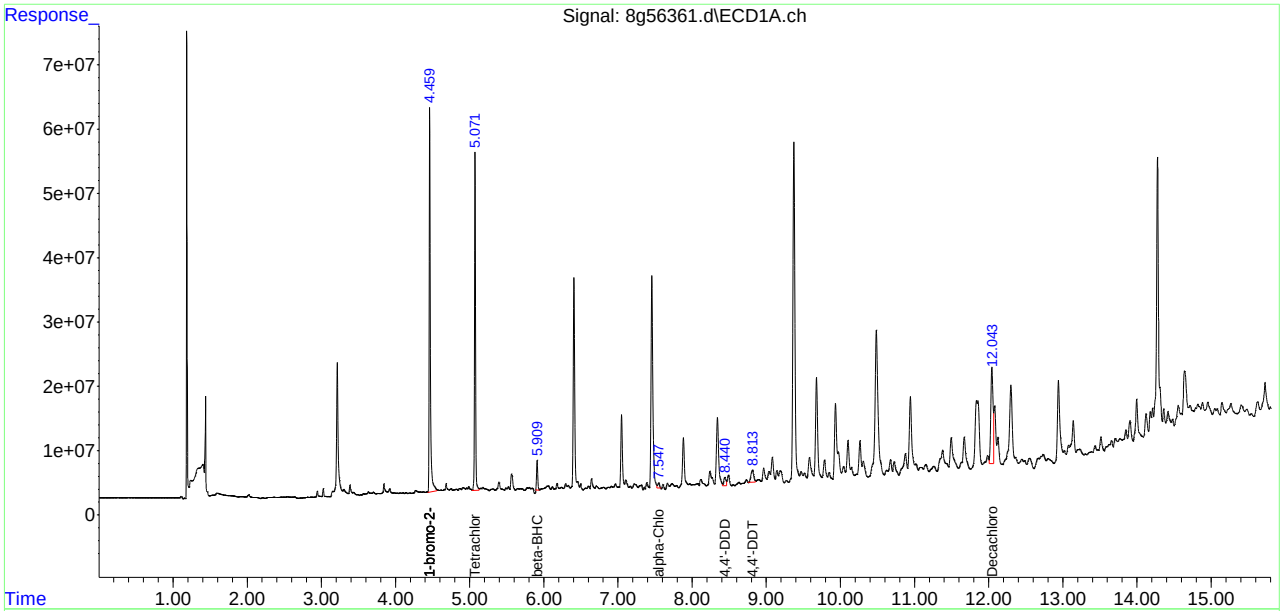
9.1.14
9

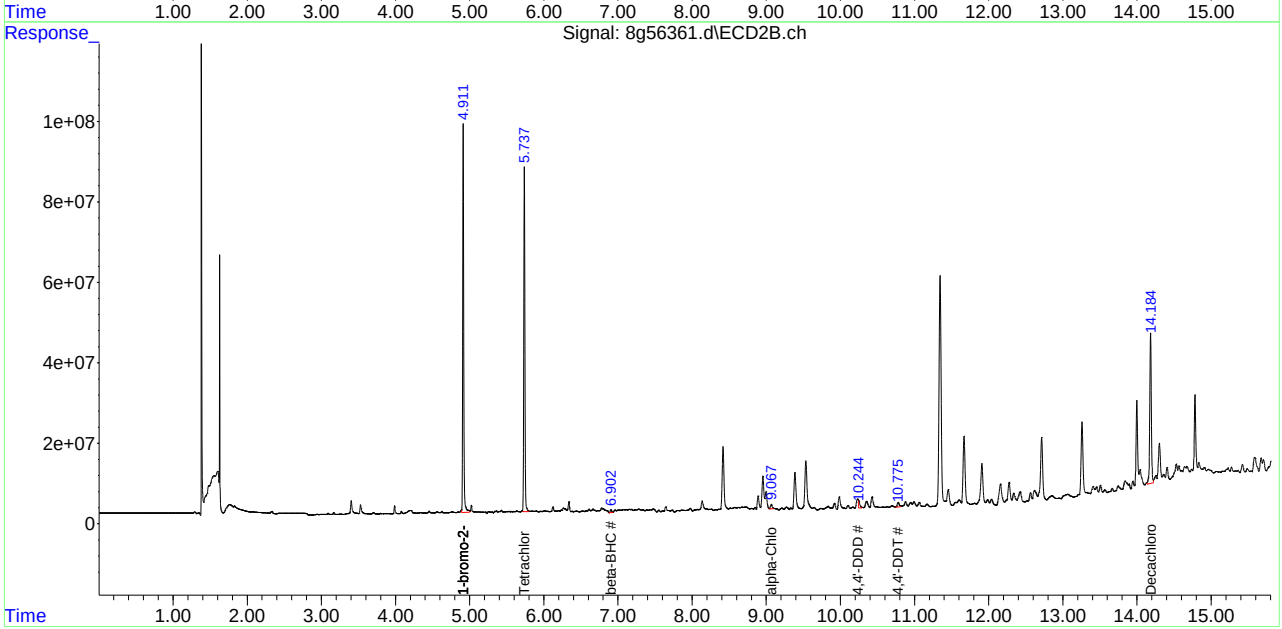
Quantitation Report (QT Reviewed)

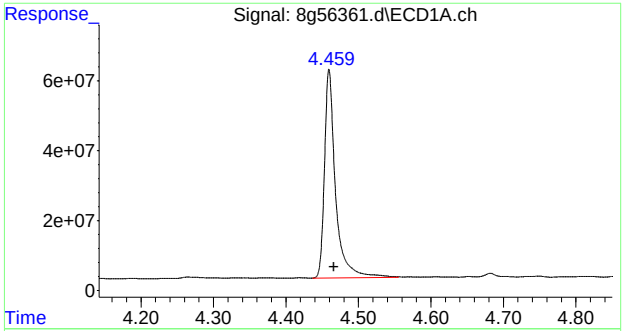
Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56361.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 10:02 am
Operator : christp
Sample : jd87833-15 m
Misc : op54452,g8g2470,5.1,,,10,1
ALS Vial : 85 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 16:51:38 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

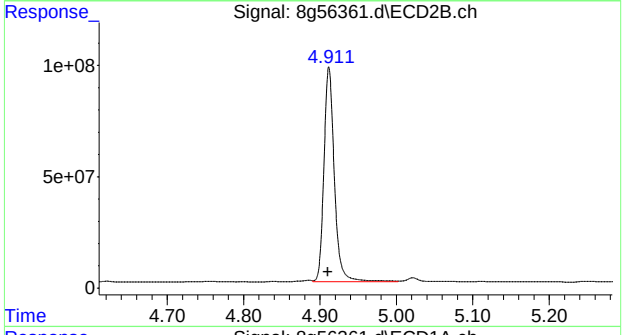






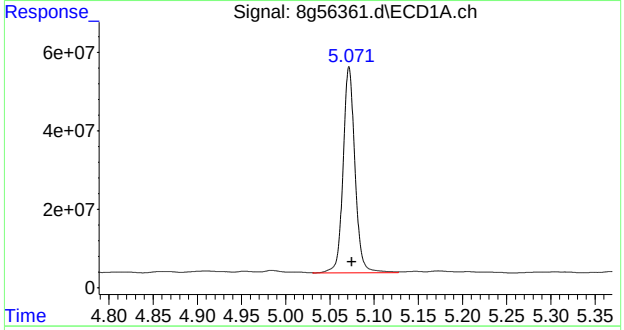
#1 1-bromo-2-nitrobenzene

R.T.: 4.459 min
Delta R.T.: -0.007 min
Response: 633236995
Conc: 5.00 PPB m



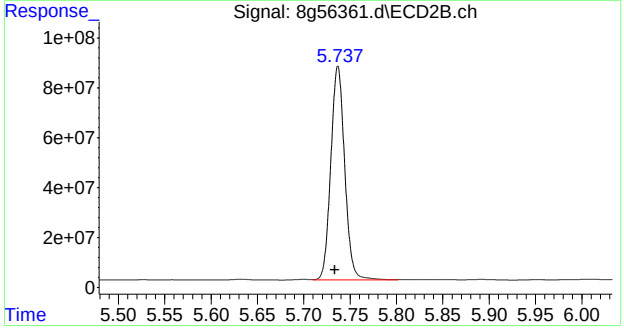
#1 1-bromo-2-nitrobenzene

R.T.: 4.912 min
Delta R.T.: 0.002 min
Response: 917719570
Conc: 5.00 PPB



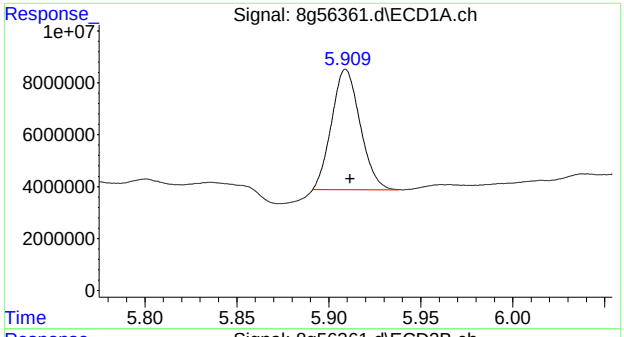
#2 Tetrachloro-m-xylene

R.T.: 5.071 min
Delta R.T.: -0.003 min
Response: 492480932
Conc: 3.73 PPB m



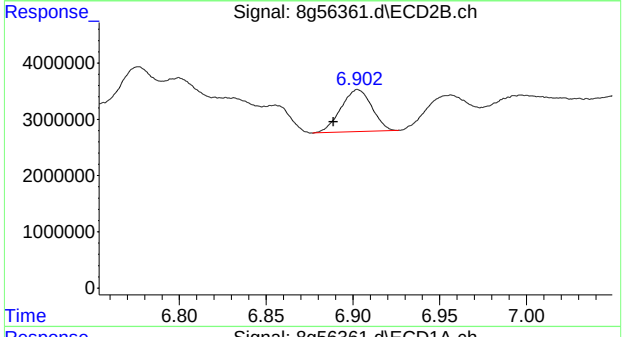
#2 Tetrachloro-m-xylene

R.T.: 5.737 min
Delta R.T.: 0.003 min
Response: 894999708
Conc: 3.31 PPB m



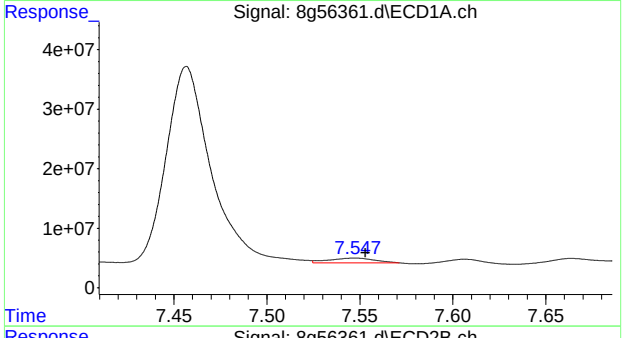
#7 beta-BHC

R.T.: 5.909 min
Delta R.T.: -0.003 min
Response: 50151396
Conc: 0.58 PPB m



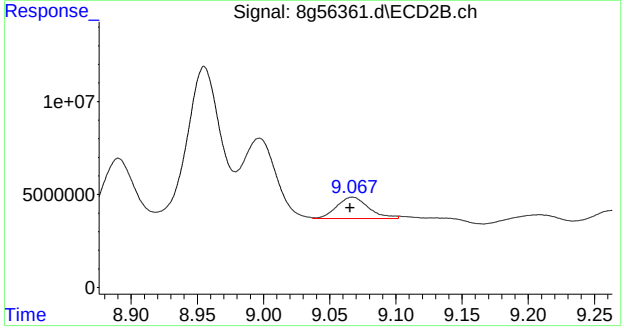
#7 beta-BHC

R.T.: 6.903 min
Delta R.T.: 0.014 min
Response: 9267516
Conc: 0.06 PPB



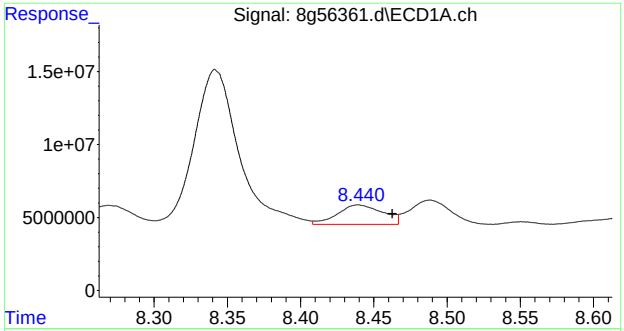
#13 alpha-Chlordane

R.T.: 7.547 min
Delta R.T.: -0.006 min
Response: 13353612
Conc: 0.09 PPB m



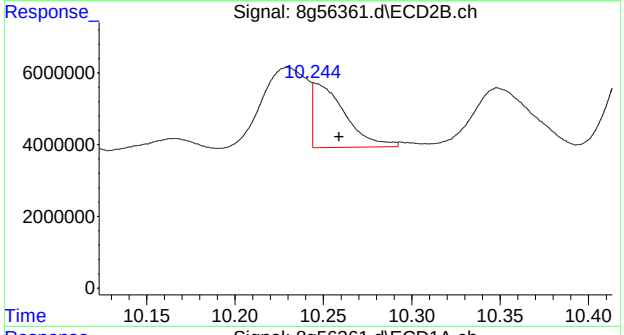
#13 alpha-Chlordane

R.T.: 9.067 min
Delta R.T.: 0.001 min
Response: 19287286
Conc: 0.07 PPB m



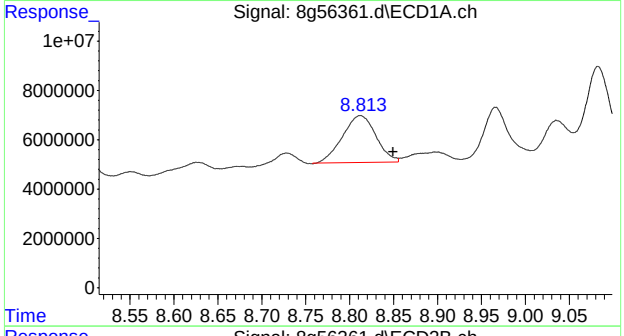
#18 4,4'-DDD

R.T.: 8.440 min
Delta R.T.: -0.023 min
Response: 29056121
Conc: 0.27 PPB m



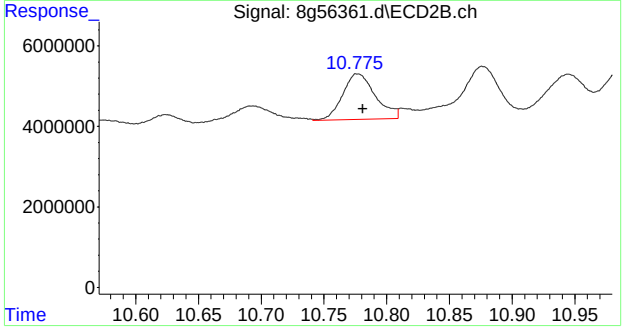
#18 4,4'-DDD

R.T.: 10.244 min
Delta R.T.: -0.015 min
Response: 22339952
Conc: 0.10 PPB m



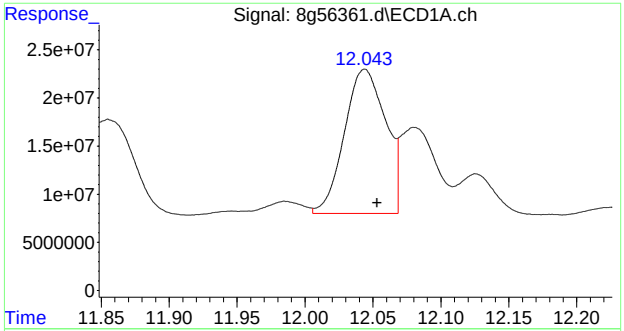
#20 4,4'-DDT

R.T.: 8.813 min
Delta R.T.: -0.037 min
Response: 50409533
Conc: 0.41 PPB m



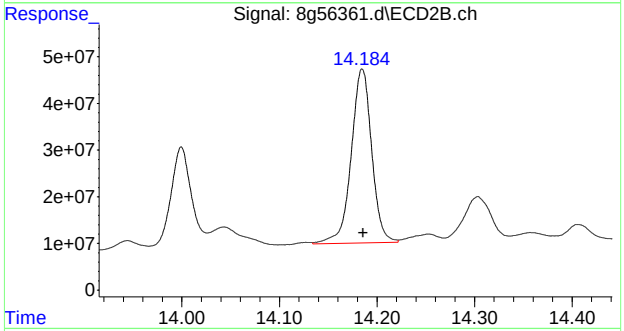
#20 4,4'-DDT

R.T.: 10.775 min
Delta R.T.: -0.006 min
Response: 20706960
Conc: 0.12 PPB m



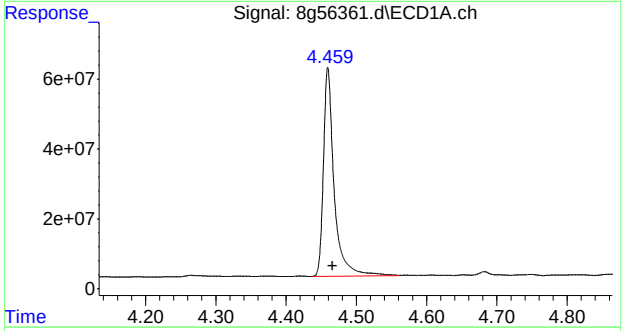
#26 Decachlorobiphenyl

R.T.: 12.043 min
Delta R.T.: -0.010 min
Response: 318247733
Conc: 2.23 PPB m



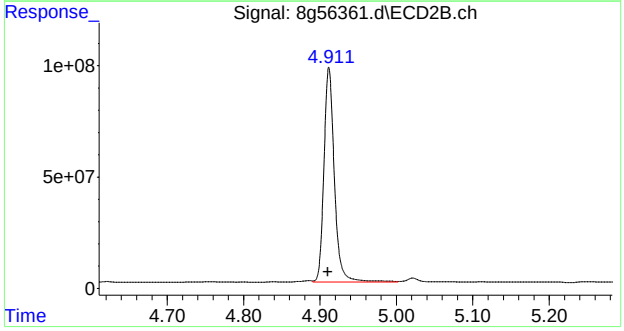
#26 Decachlorobiphenyl

R.T.: 14.184 min
Delta R.T.: -0.001 min
Response: 546046614
Conc: 4.27 PPB m



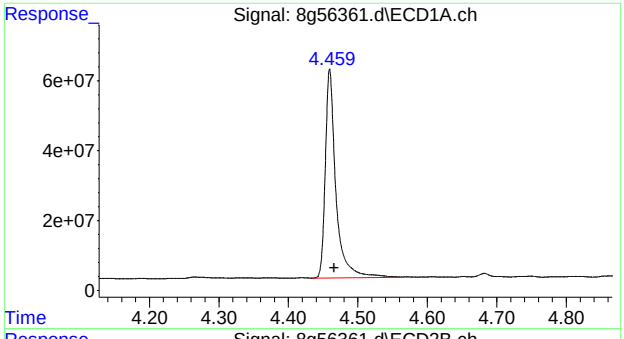
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.459 min
Delta R.T.: -0.007 min
Response: 635403711
Conc: 5.00 PPB m



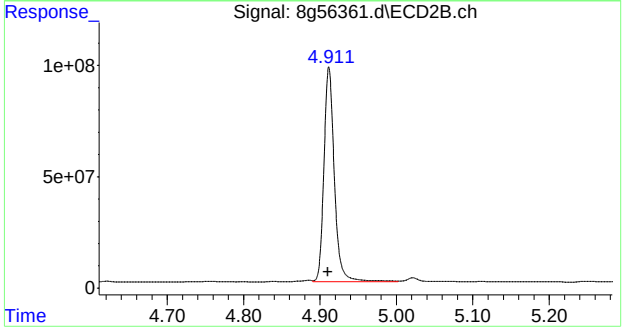
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.912 min
Delta R.T.: 0.002 min
Response: 917719570
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.459 min
Delta R.T.: -0.007 min
Response: 634511221
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.912 min
Delta R.T.: 0.002 min
Response: 917719570
Conc: 5.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/24 15:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56362.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 10:24 am
Operator : christp
Sample : jd87833-16 m
Misc : op54452,g8g2470,5.2,,,10,1
ALS Vial : 86 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 16:59:17 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.461	4.911	1028.9E6	915.5E6	5.000m	5.000m
27)	I 1-bromo-2...	4.461	4.911	1032.2E6	912.3E6	5.000m	5.000m
33)	I 1-bromo-2...	4.461	4.911	1030.6E6	912.9E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.071	5.735	506.1E6	956.5E6	2.360m	3.550m#
	Spiked Amount 40.000	Range 30 - 150		Recovery =		5.90%#	8.88%#
26)	SA Decachlor...	12.043	14.185	423.6E6	541.9E6	1.831	4.247 #
	Spiked Amount 40.000			Recovery =		4.58%	10.62%
	Target Compounds						
11)	B Heptachlo...	7.233	8.568	39585159	47456208	0.173m	0.163m
12)	B gamma-Chl...	7.386	8.847	87075361	126.3E6	0.322m	0.431m#
13)	B alpha-Chl...	7.542	9.067	195.6E6	165.9E6	0.770m	0.613m
15)	B 4,4'-DDE	7.659f	9.328	505.5E6	802.5E6	2.077	2.876 #
16)	MA Dieldrin	8.014	9.575	37194775	39640662	0.141m	0.133m
18)	A 4,4'-DDD	8.436f	10.251	62462639	116.1E6	0.351m	0.502m#
20)	MA 4,4'-DDT	8.831f	10.775	41478779	73996064	0.205m	0.442m#

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

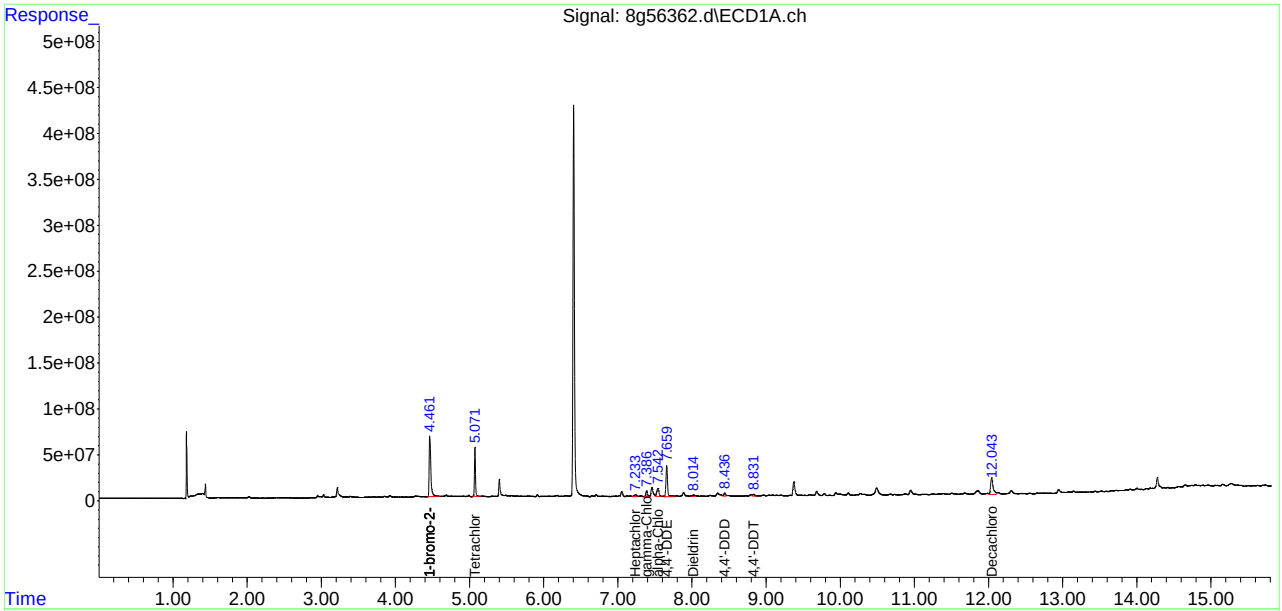
9.1.15
9

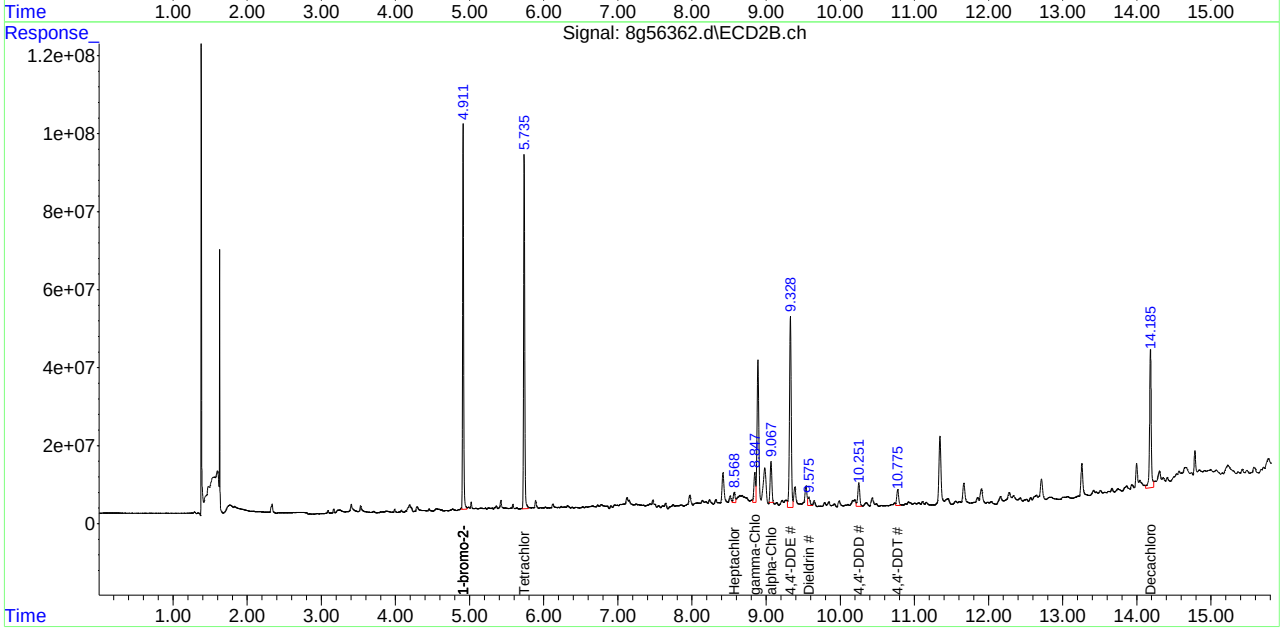
Quantitation Report (QT Reviewed)

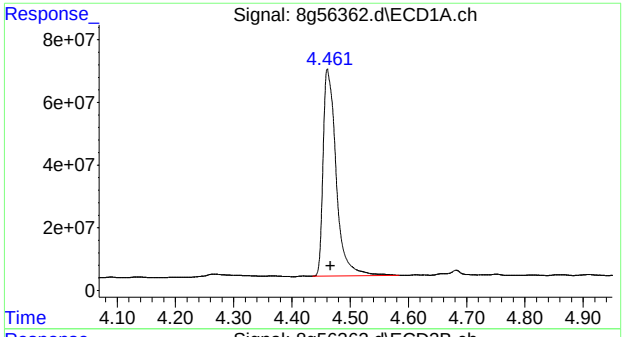
Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56362.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 10:24 am
Operator : christp
Sample : jd87833-16 m
Misc : op54452,g8g2470,5.2,,,10,1
ALS Vial : 86 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 16:59:17 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

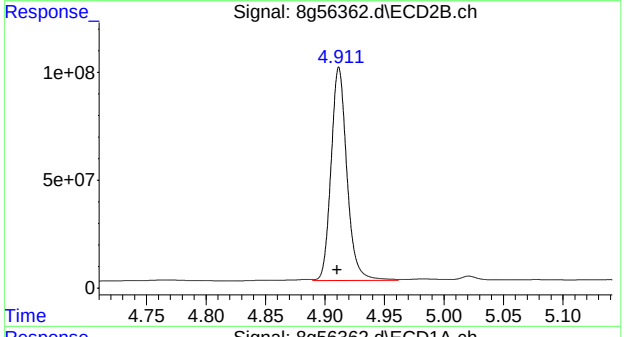






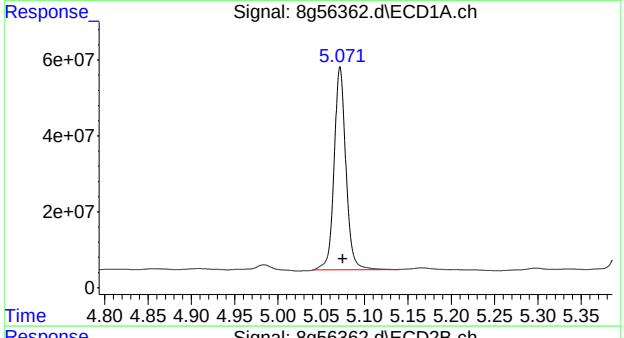
#1 1-bromo-2-nitrobenzene

R.T.: 4.461 min
Delta R.T.: -0.005 min
Response: 1028912023
Conc: 5.00 PPB m



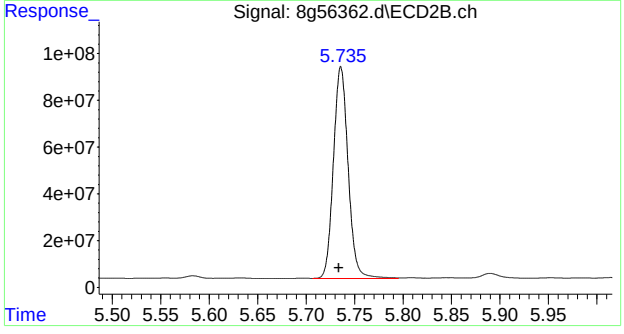
#1 1-bromo-2-nitrobenzene

R.T.: 4.911 min
Delta R.T.: 0.001 min
Response: 915524055
Conc: 5.00 PPB m



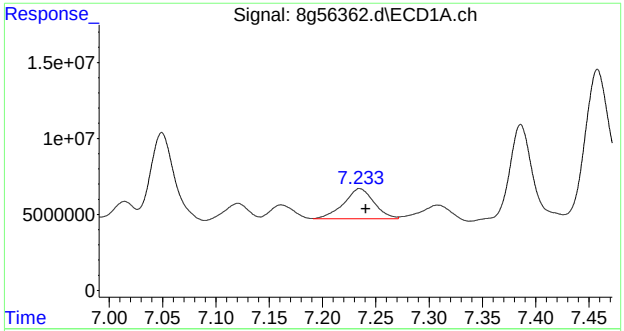
#2 Tetrachloro-m-xylene

R.T.: 5.071 min
Delta R.T.: -0.003 min
Response: 506090380
Conc: 2.36 PPB m



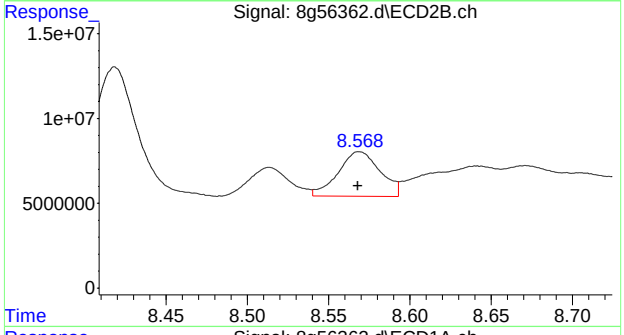
#2 Tetrachloro-m-xylene

R.T.: 5.735 min
Delta R.T.: 0.002 min
Response: 956462614
Conc: 3.55 PPB m



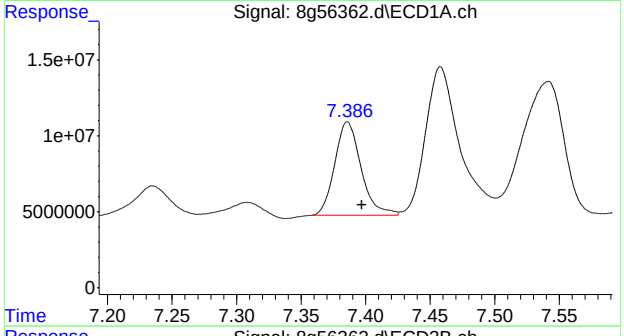
#11 Heptachlor Epoxide

R.T.: 7.233 min
Delta R.T.: -0.007 min
Response: 39585159
Conc: 0.17 PPB m



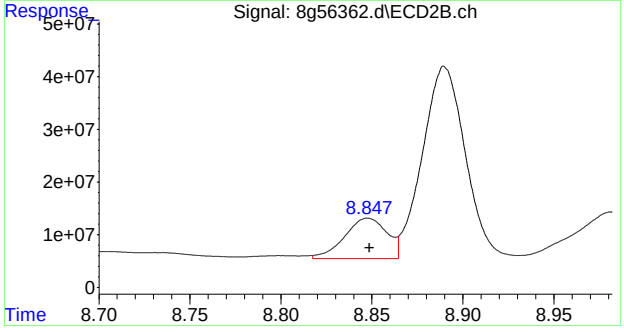
#11 Heptachlor Epoxide

R.T.: 8.568 min
Delta R.T.: 0.000 min
Response: 47456208
Conc: 0.16 PPB m



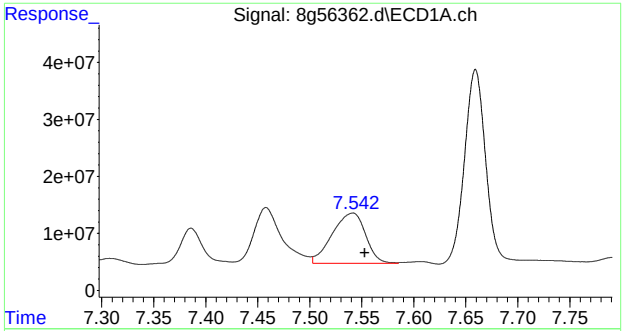
#12 gamma-Chlordane

R.T.: 7.386 min
Delta R.T.: -0.011 min
Response: 87075361
Conc: 0.32 PPB m



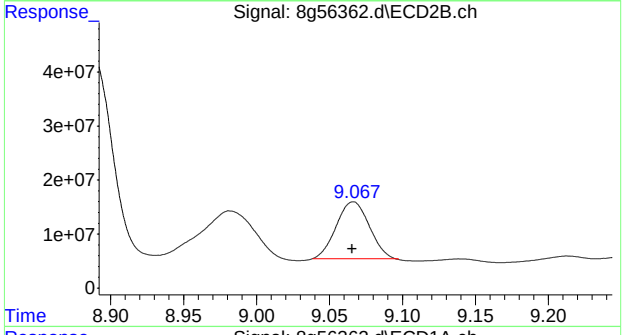
#12 gamma-Chlordane

R.T.: 8.847 min
Delta R.T.: -0.002 min
Response: 126288294
Conc: 0.43 PPB m



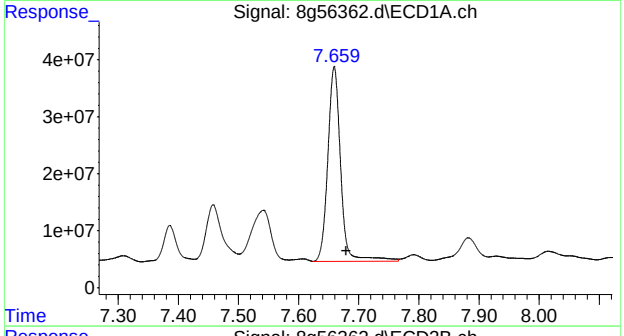
#13 alpha-Chlordane

R.T.: 7.542 min
Delta R.T.: -0.011 min
Response: 195590076
Conc: 0.77 PPB m



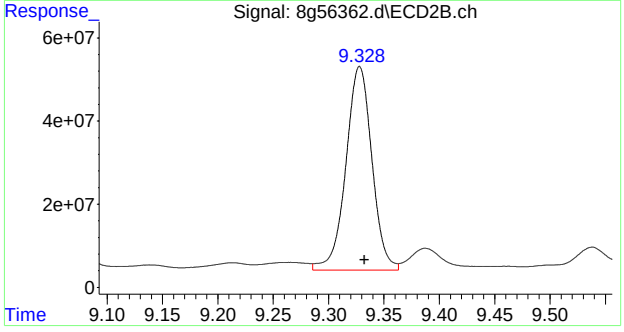
#13 alpha-Chlordane

R.T.: 9.067 min
Delta R.T.: 0.002 min
Response: 165933514
Conc: 0.61 PPB m



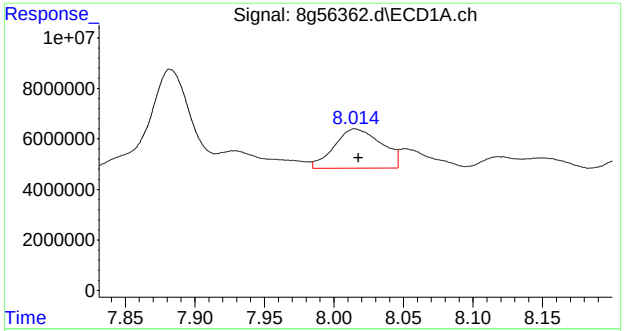
#15 4,4'-DDE

R.T.: 7.659 min
Delta R.T.: -0.020 min
Response: 505464850
Conc: 2.08 PPB



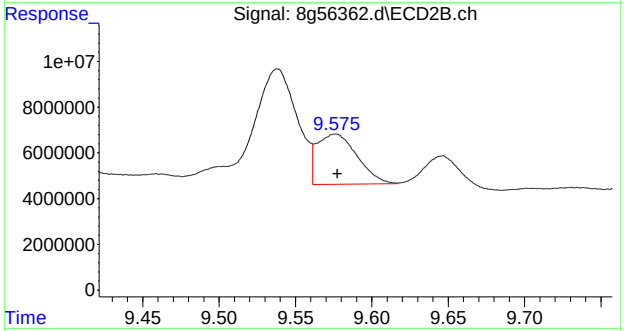
#15 4,4'-DDE

R.T.: 9.328 min
Delta R.T.: -0.004 min
Response: 802515473
Conc: 2.88 PPB



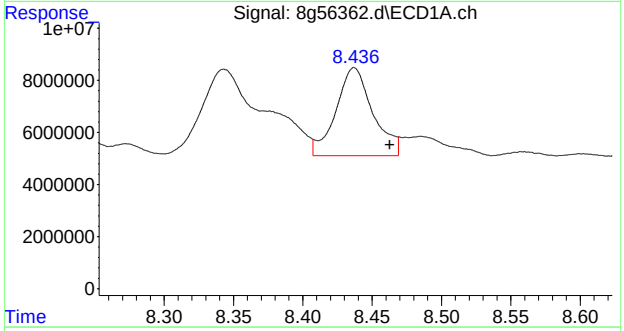
#16 Dieldrin

R.T.: 8.014 min
Delta R.T.: -0.004 min
Response: 37194775
Conc: 0.14 PPB m



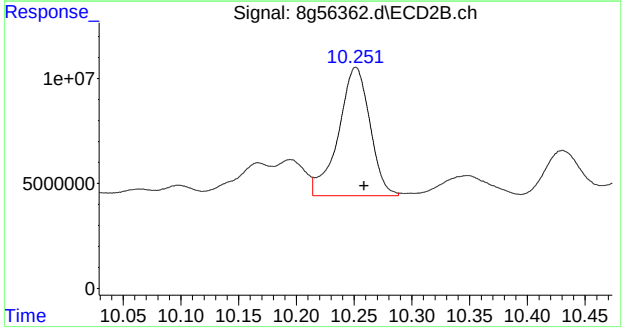
#16 Dieldrin

R.T.: 9.575 min
Delta R.T.: -0.002 min
Response: 39640662
Conc: 0.13 PPB m



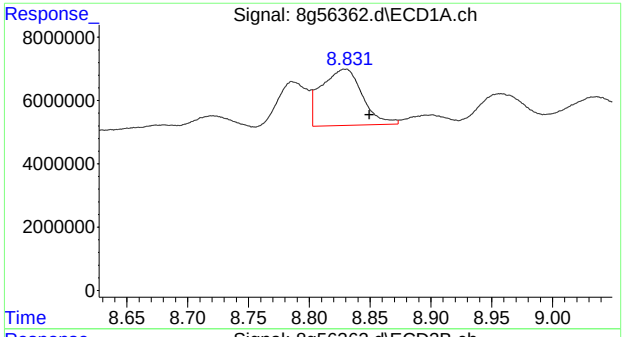
#18 4,4'-DDD

R.T.: 8.436 min
Delta R.T.: -0.026 min
Response: 62462639
Conc: 0.35 PPB m



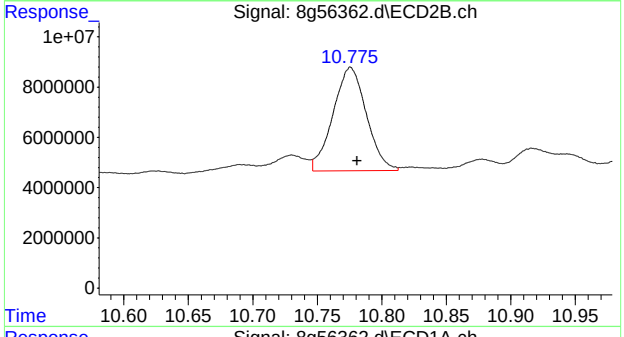
#18 4,4'-DDD

R.T.: 10.251 min
Delta R.T.: -0.008 min
Response: 116097571
Conc: 0.50 PPB m



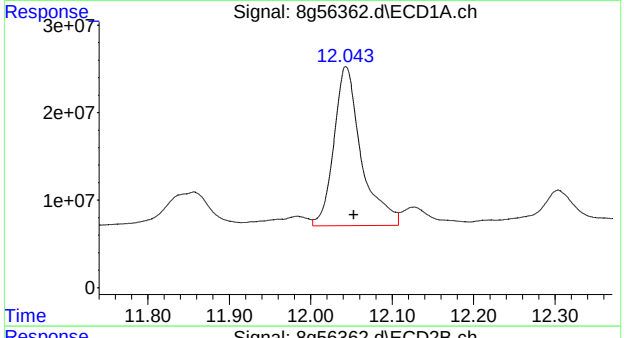
#20 4,4'-DDT

R.T.: 8.831 min
Delta R.T.: -0.018 min
Response: 41478779
Conc: 0.21 PPB m



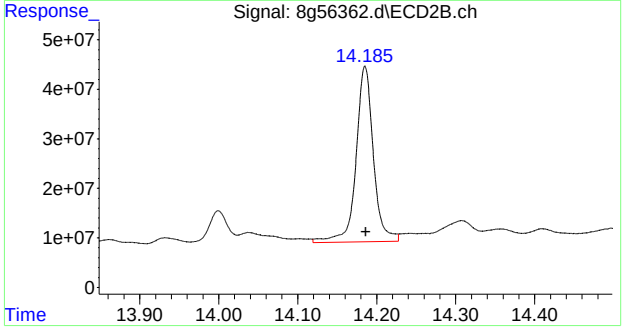
#20 4,4'-DDT

R.T.: 10.775 min
Delta R.T.: -0.006 min
Response: 73996064
Conc: 0.44 PPB m



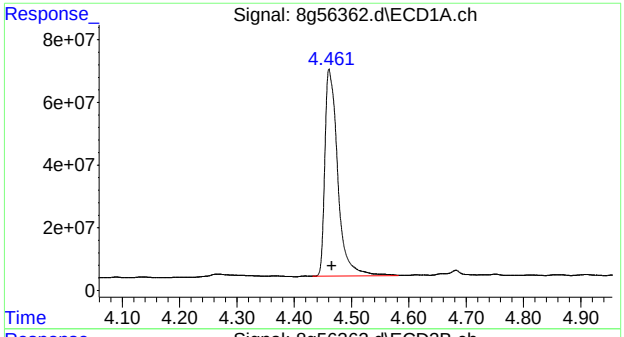
#26 Decachlorobiphenyl

R.T.: 12.043 min
Delta R.T.: -0.010 min
Response: 423596436
Conc: 1.83 PPB



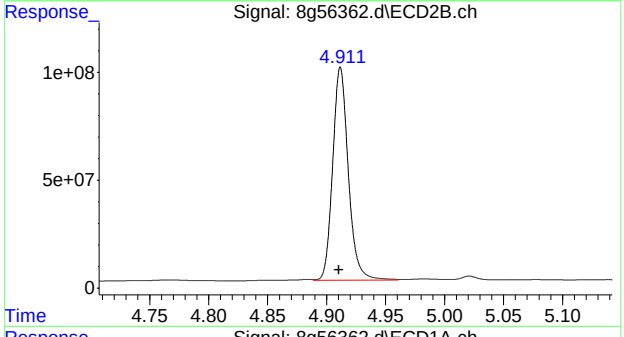
#26 Decachlorobiphenyl

R.T.: 14.185 min
Delta R.T.: 0.000 min
Response: 541853701
Conc: 4.25 PPB



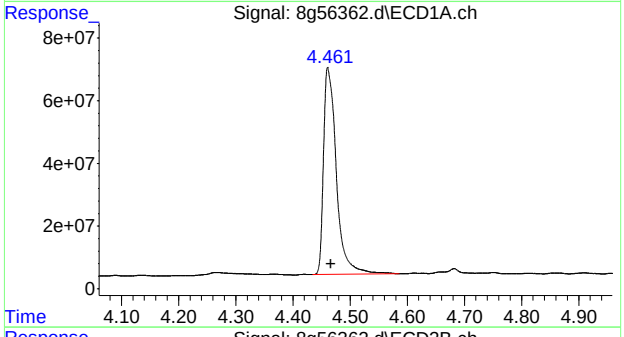
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.461 min
Delta R.T.: -0.005 min
Response: 1032224838
Conc: 5.00 PPB m



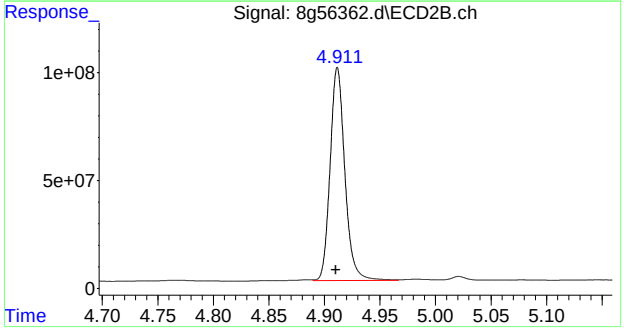
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.911 min
Delta R.T.: 0.001 min
Response: 912336758
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.461 min
Delta R.T.: -0.005 min
Response: 1030628685
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.911 min
Delta R.T.: 0.001 min
Response: 912917369
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/24 14:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231737.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 06:27:27
Operator : christp
Sample : jd87833-1 m
Misc : op54453,G2G6085,5.3,,,10,1
ALS Vial : 0 (Sig #1); 53 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 12:53:52 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	4.688	5.181	1654.8E6	2103.4E6	3.792	3.585
Spiked Amount 40.000			Recovery	=	9.48%	8.96%
51) S Decachlor...	11.315	12.433f	1485.0E6	1572.0E6	3.759	4.118m
Spiked Amount 40.000			Recovery	=	9.40%	10.30%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.1.16

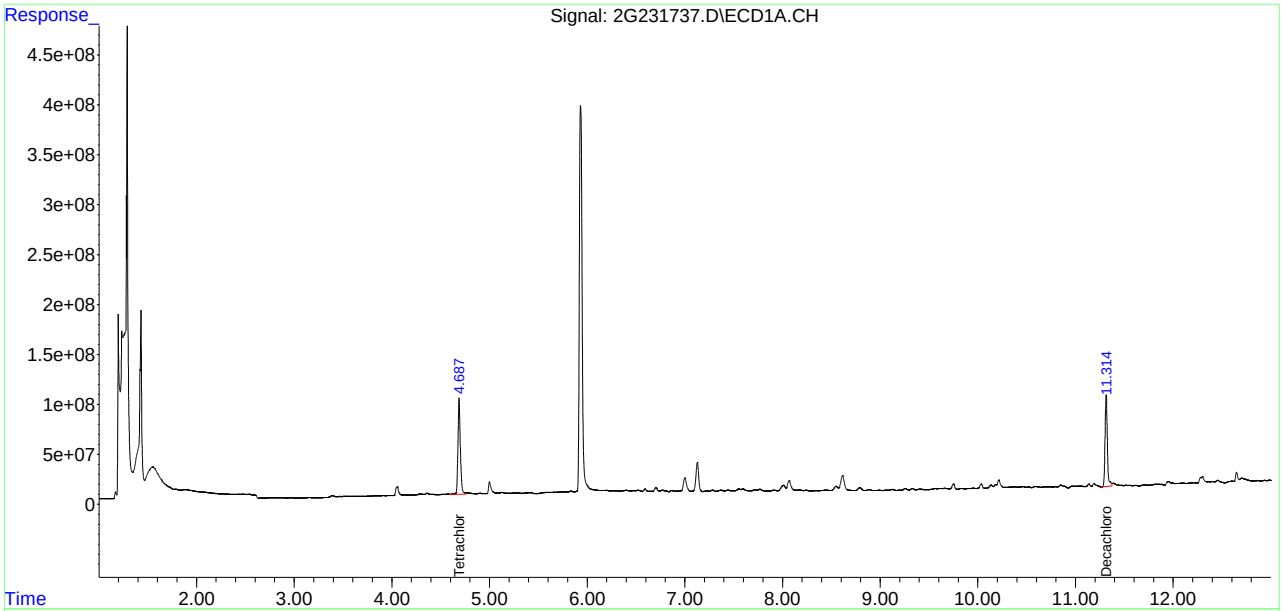
9

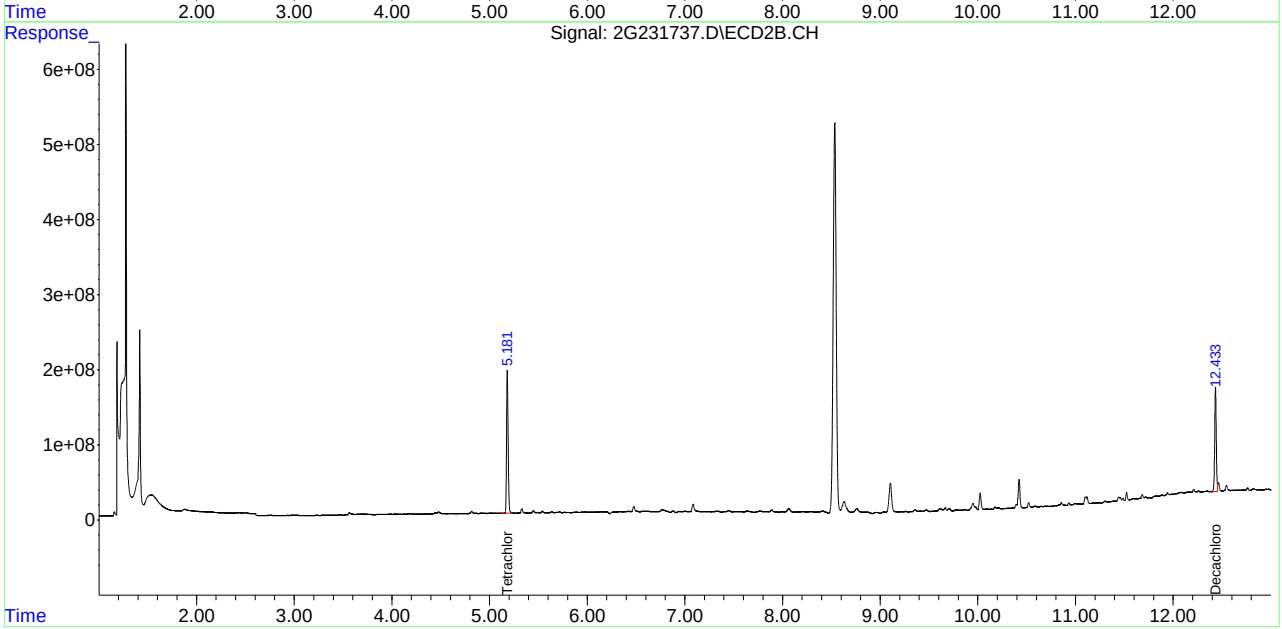
Quantitation Report (QT Reviewed)

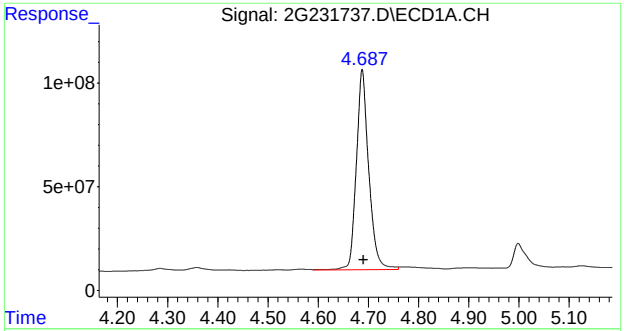
Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231737.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 06:27:27
Operator : christp
Sample : jd87833-1 m
Misc : op54453,G2G6085,5.3,,,10,1
ALS Vial : 0 (Sig #1); 53 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 12:53:52 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

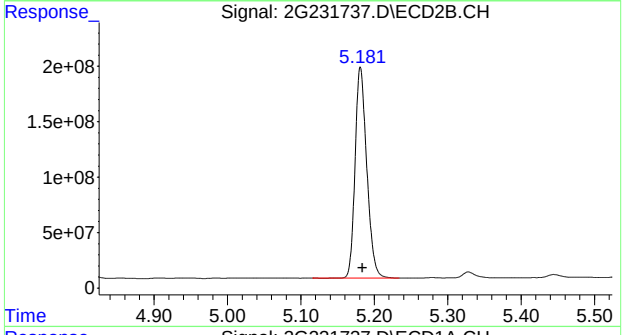






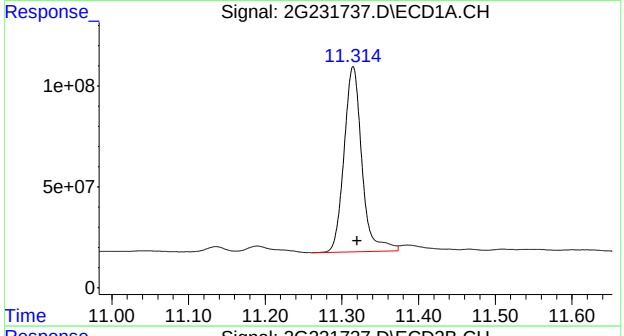
#1 Tetrachloro-m-xylene

R.T.: 4.688 min
Delta R.T.: -0.002 min
Response: 1654838846
Conc: 3.79 ppb



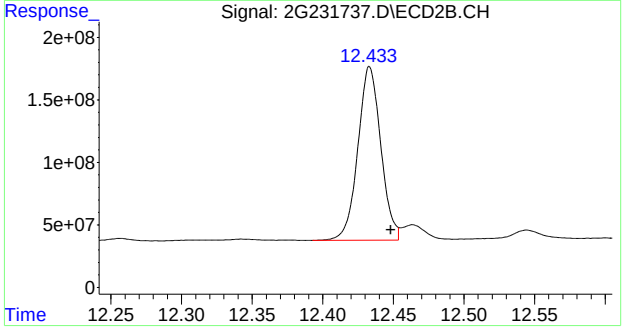
#1 Tetrachloro-m-xylene

R.T.: 5.181 min
Delta R.T.: -0.002 min
Response: 2103431364
Conc: 3.59 ppb



#51 Decachlorobiphenyl

R.T.: 11.315 min
Delta R.T.: -0.005 min
Response: 1485019642
Conc: 3.76 ppb



#51 Decachlorobiphenyl

R.T.: 12.433 min
Delta R.T.: -0.016 min
Response: 1572029402
Conc: 4.12 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/24 14:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231738.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 06:51:35
Operator : christp
Sample : jd87833-3 m
Misc : op54453,G2G6085,5.4,,,10,1
ALS Vial : 0 (Sig #1); 54 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 12:55:19 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	4.688	5.181	1422.2E6	1836.1E6	3.259m	3.130
Spiked Amount 40.000			Recovery	=	8.15%	7.83%
51) S Decachlor...	11.315	12.433	1268.0E6	1873.1E6	3.210	4.907m#
Spiked Amount 40.000			Recovery	=	8.03%	12.27%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

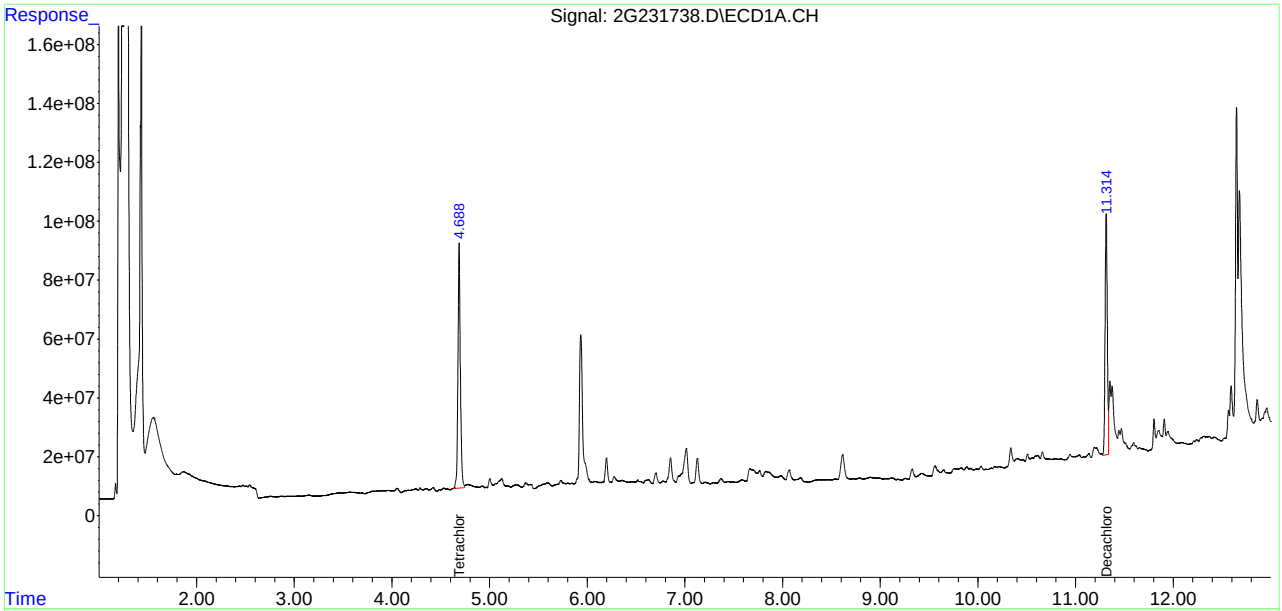
9.1.17
9

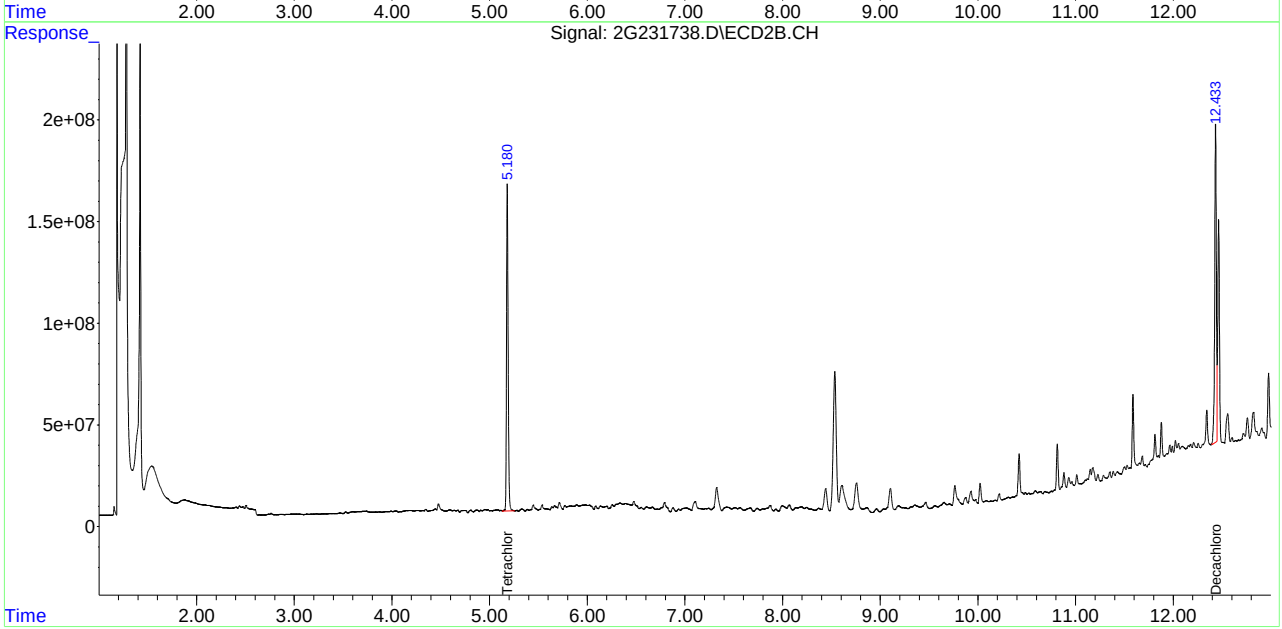
Quantitation Report (QT Reviewed)

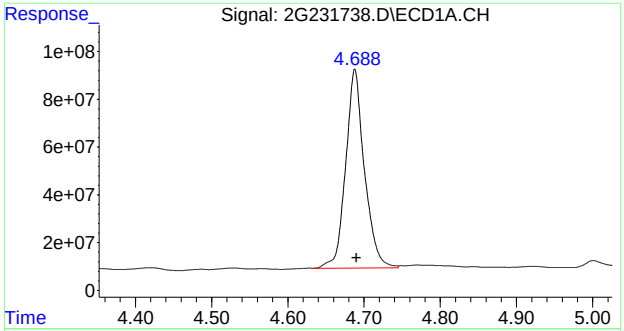
Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231738.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 06:51:35
Operator : christp
Sample : jd87833-3 m
Misc : op54453,G2G6085,5.4,,,10,1
ALS Vial : 0 (Sig #1); 54 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 12:55:19 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

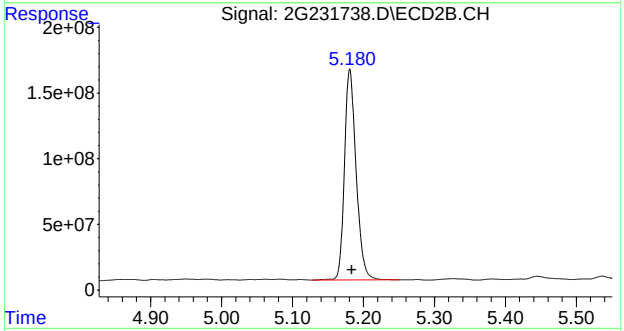






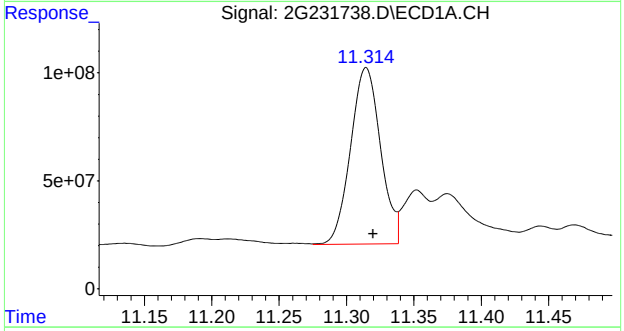
#1 Tetrachloro-m-xylene

R.T.: 4.688 min
Delta R.T.: -0.002 min
Response: 1422231439
Conc: 3.26 ppb m



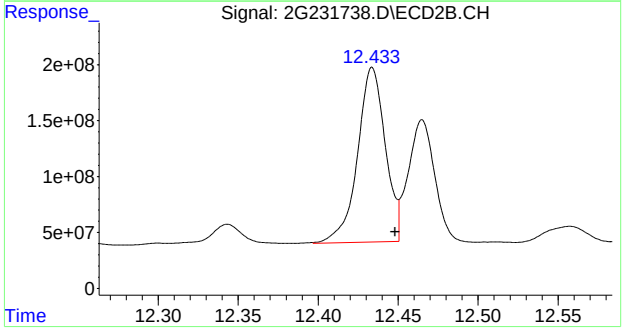
#1 Tetrachloro-m-xylene

R.T.: 5.181 min
Delta R.T.: -0.003 min
Response: 1836117492
Conc: 3.13 ppb



#51 Decachlorobiphenyl

R.T.: 11.315 min
Delta R.T.: -0.005 min
Response: 1267951941
Conc: 3.21 ppb



#51 Decachlorobiphenyl

R.T.: 12.433 min
Delta R.T.: -0.015 min
Response: 1873116997
Conc: 4.91 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/24 14:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231739.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 07:15:44
Operator : christp
Sample : jd87833-4 m
Misc : op54453,G2G6085,5.4,,,10,1
ALS Vial : 0 (Sig #1); 55 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 12:56:10 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	4.688	5.181	1411.7E6	1803.9E6	3.235	3.075
	Spiked Amount	40.000		Recovery	=	8.09%	7.69%
51) S	Decachlor...	11.315	12.432f	1146.4E6	1800.7E6	2.902	4.717m#
	Spiked Amount	40.000		Recovery	=	7.26%	11.79%
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.1.18

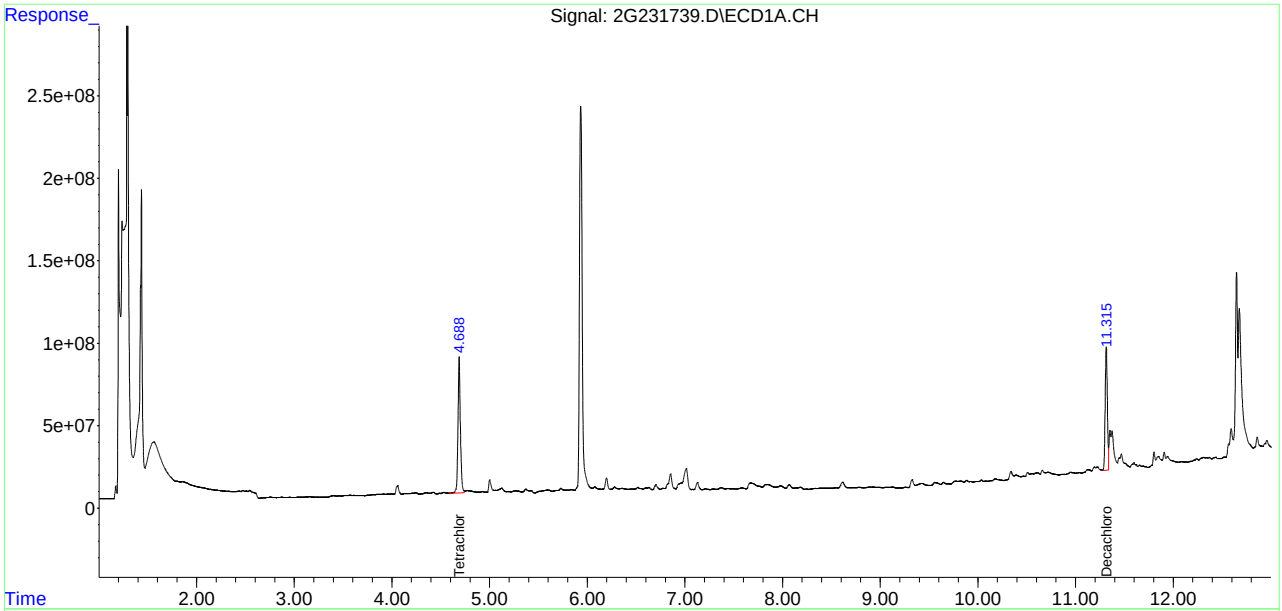
9

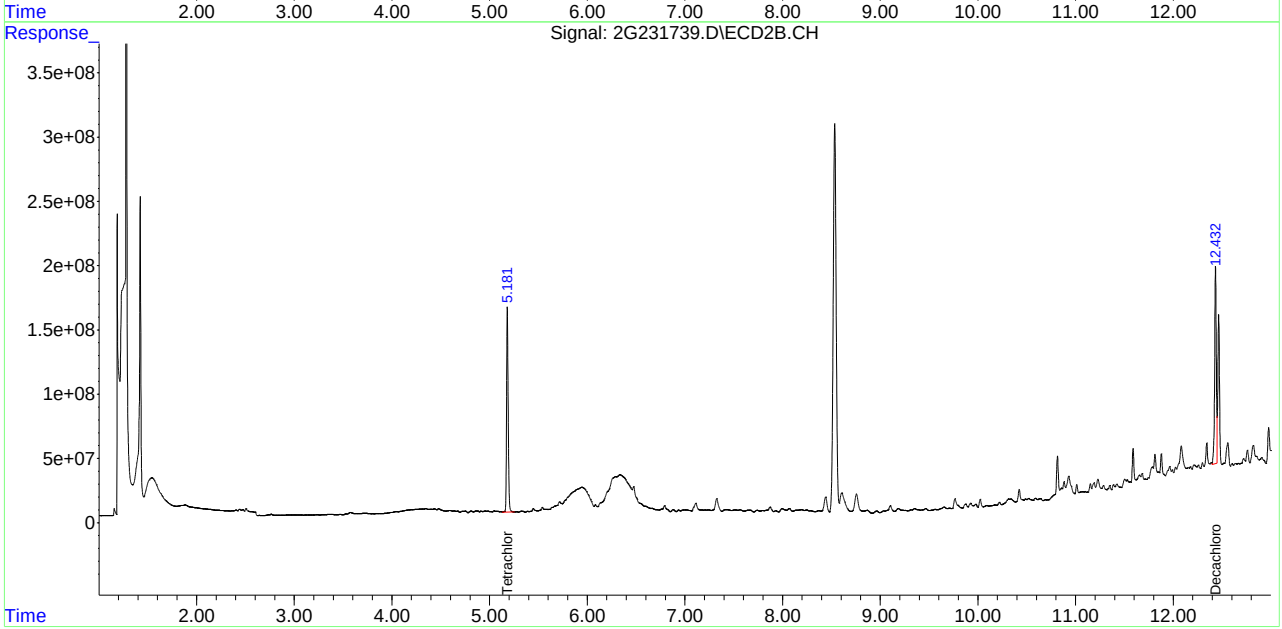
Quantitation Report (QT Reviewed)

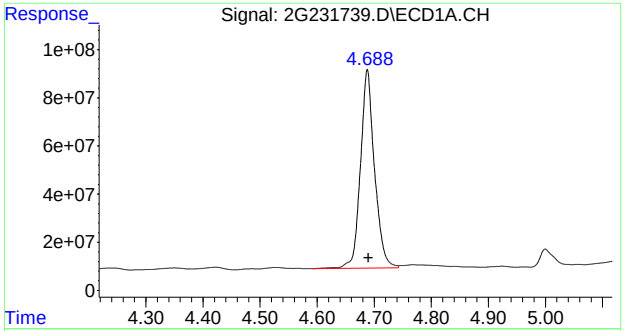
Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231739.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 07:15:44
Operator : christp
Sample : jd87833-4 m
Misc : op54453,G2G6085,5.4,,,10,1
ALS Vial : 0 (Sig #1); 55 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 12:56:10 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

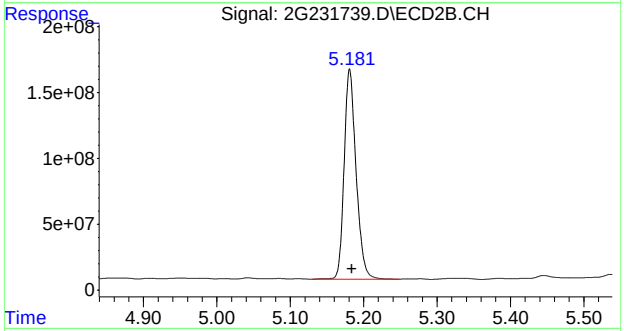






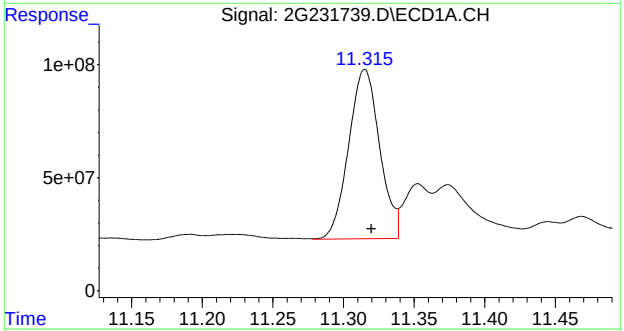
#1 Tetrachloro-m-xylene

R.T.: 4.688 min
Delta R.T.: -0.002 min
Response: 1411725916
Conc: 3.24 ppb



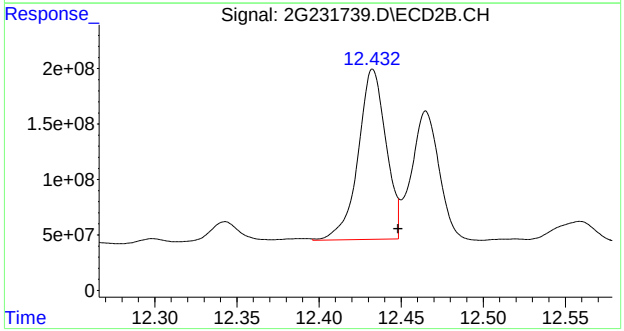
#1 Tetrachloro-m-xylene

R.T.: 5.181 min
Delta R.T.: -0.003 min
Response: 1803884068
Conc: 3.07 ppb



#51 Decachlorobiphenyl

R.T.: 11.315 min
Delta R.T.: -0.005 min
Response: 1146393589
Conc: 2.90 ppb



#51 Decachlorobiphenyl

R.T.: 12.432 min
Delta R.T.: -0.016 min
Response: 1800700084
Conc: 4.72 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/24 14:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231744.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 09:16:10
Operator : christp
Sample : jd87833-5 m
Misc : op54453,G2G6085,5.4,,,10,1
ALS Vial : 0 (Sig #1); 57 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 18:24:57 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	4.688	5.181	1356.9E6	1757.2E6	3.110	2.995
Spiked Amount 40.000			Recovery	=	7.78%	7.49%
51) S Decachlor...	11.315	12.432f	1196.2E6	1857.6E6	3.028	4.866m#
Spiked Amount 40.000			Recovery	=	7.57%	12.16%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.1.19

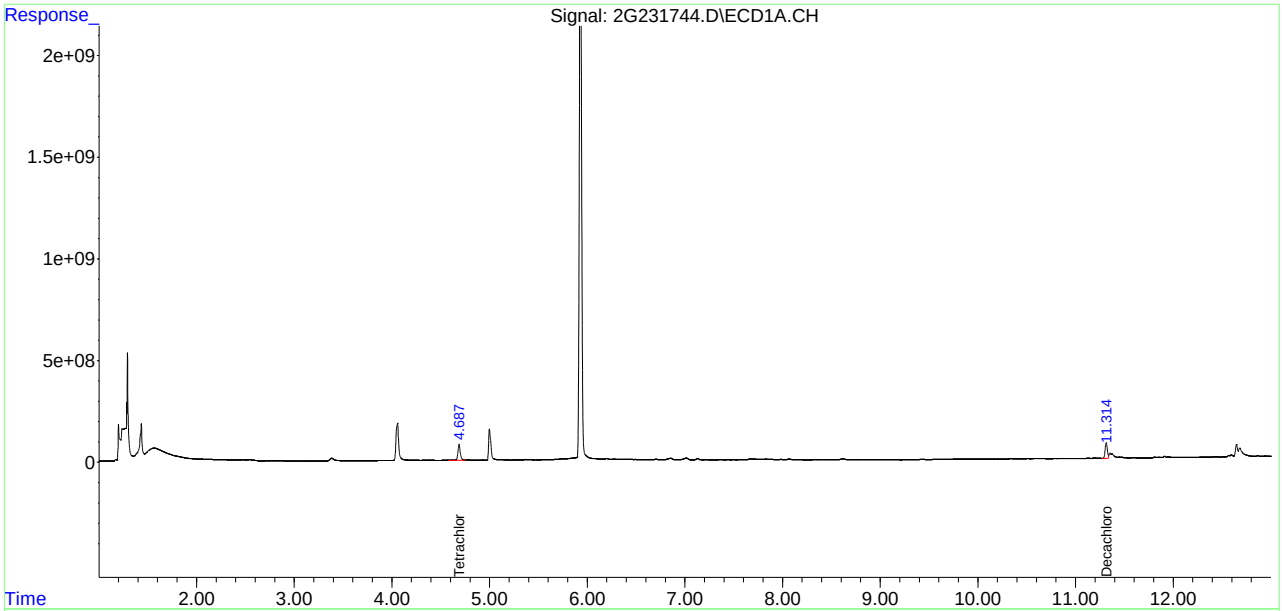
9

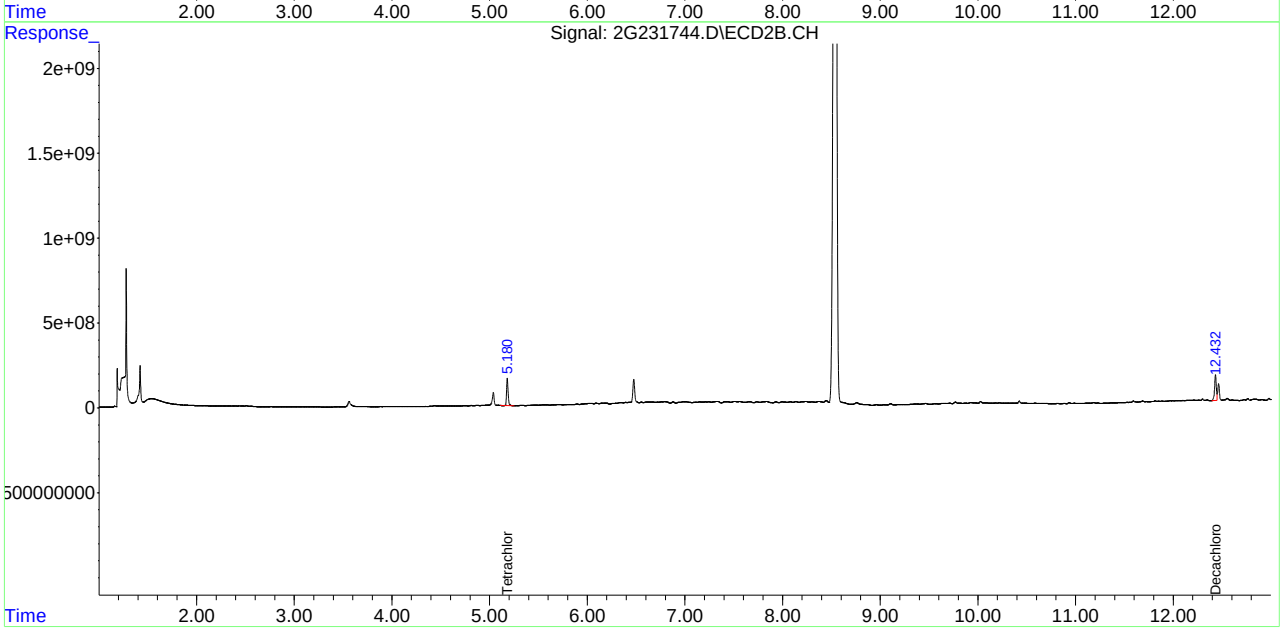
Quantitation Report (QT Reviewed)

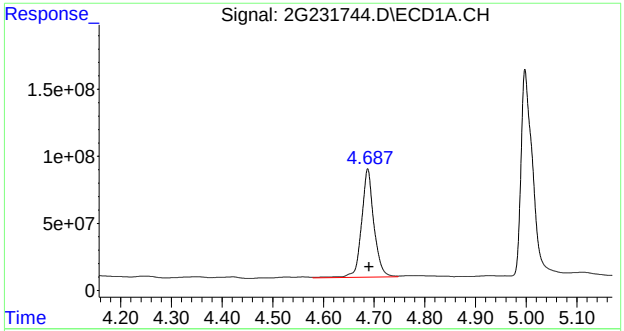
Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231744.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 09:16:10
Operator : christp
Sample : jd87833-5 m
Misc : op54453,G2G6085,5.4,,,10,1
ALS Vial : 0 (Sig #1); 57 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 18:24:57 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

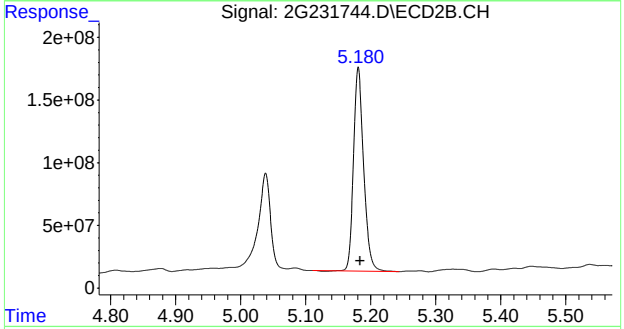






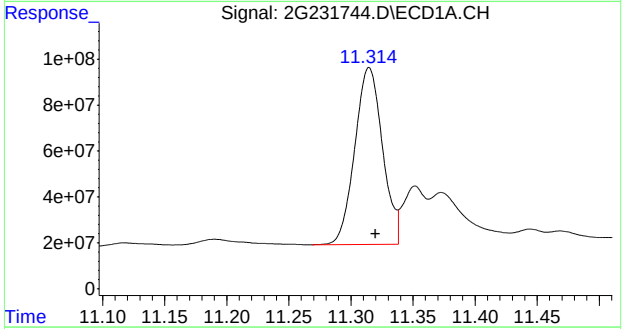
#1 Tetrachloro-m-xylene

R.T.: 4.688 min
Delta R.T.: -0.002 min
Response: 1356876402
Conc: 3.11 ppb



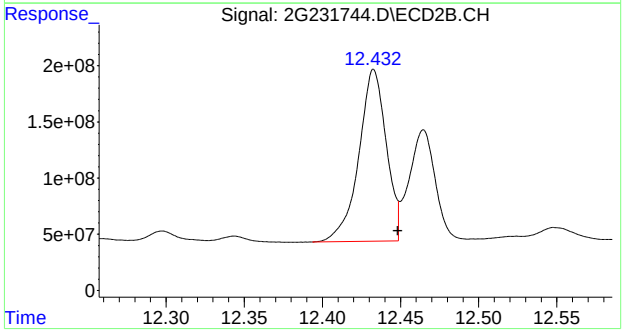
#1 Tetrachloro-m-xylene

R.T.: 5.181 min
Delta R.T.: -0.003 min
Response: 1757176728
Conc: 3.00 ppb



#51 Decachlorobiphenyl

R.T.: 11.315 min
Delta R.T.: -0.005 min
Response: 1196245534
Conc: 3.03 ppb



#51 Decachlorobiphenyl

R.T.: 12.432 min
Delta R.T.: -0.016 min
Response: 1857624684
Conc: 4.87 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/24 14:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231745.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 09:40:06
Operator : christp
Sample : jd87833-7 m
Misc : op54453,G2G6085,5.0,,,10,1
ALS Vial : 0 (Sig #1); 58 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 18:25:49 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	4.687	5.182	1347.6E6	1816.8E6	3.088m	3.097
Spiked Amount 40.000			Recovery	=	7.72%	7.74%
51) S Decachlor...	11.316	12.433	1062.6E6	1679.5E6	2.690	4.400m#
Spiked Amount 40.000			Recovery	=	6.73%	11.00%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

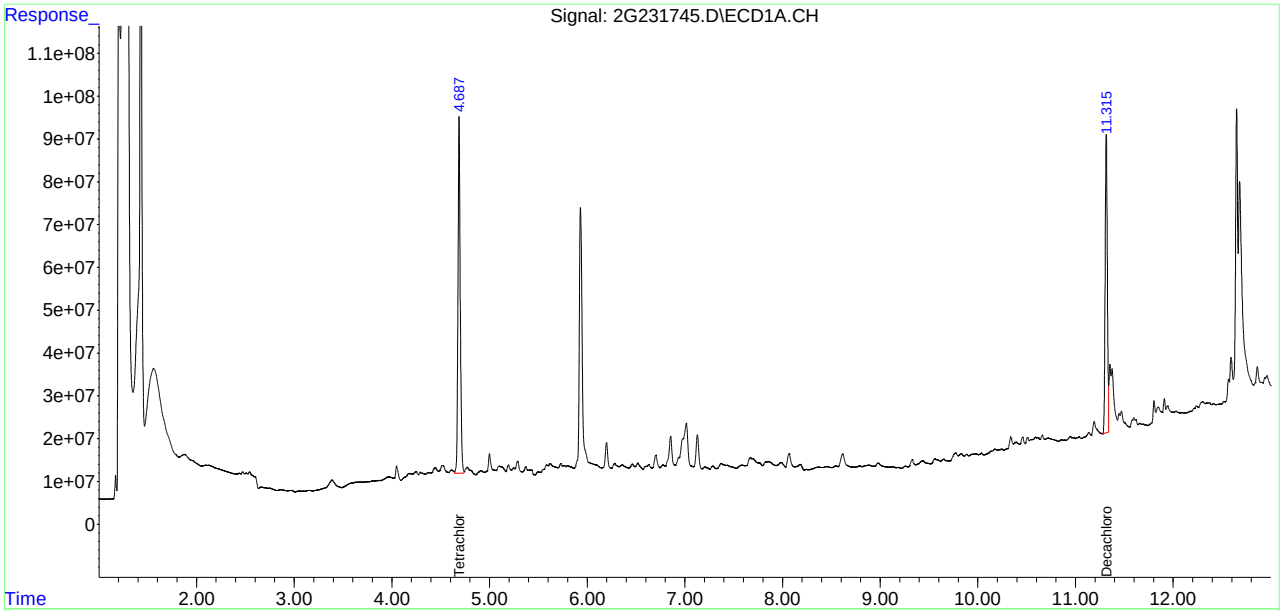
9.1.20
9

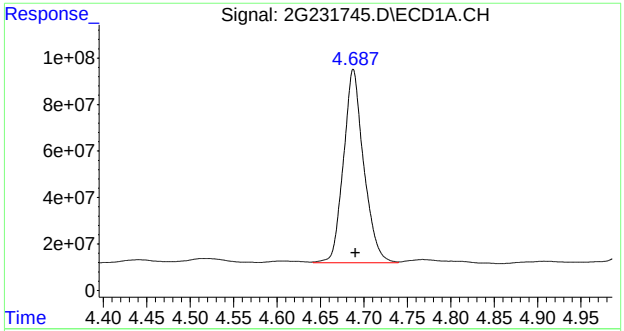
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231745.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 09:40:06
Operator : christp
Sample : jd87833-7 m
Misc : op54453,G2G6085,5.0,,,10,1
ALS Vial : 0 (Sig #1); 58 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 18:25:49 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

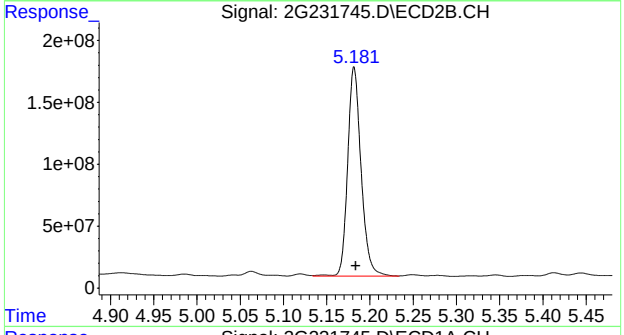
Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





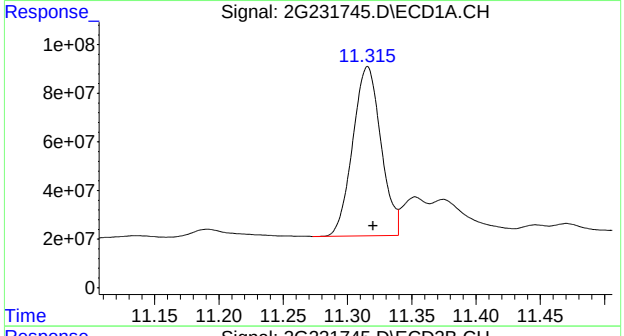
#1 Tetrachloro-m-xylene

R.T.: 4.687 min
Delta R.T.: -0.003 min
Response: 1347613539
Conc: 3.09 ppb m



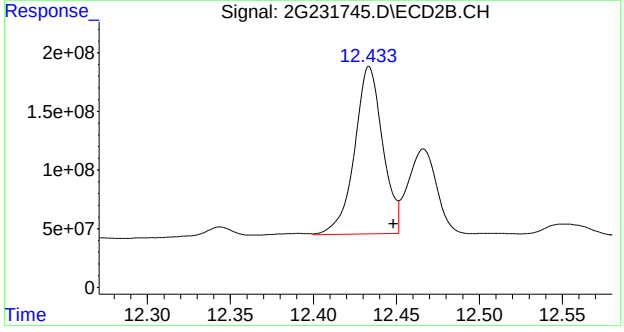
#1 Tetrachloro-m-xylene

R.T.: 5.182 min
Delta R.T.: -0.002 min
Response: 1816820026
Conc: 3.10 ppb



#51 Decachlorobiphenyl

R.T.: 11.316 min
Delta R.T.: -0.004 min
Response: 1062628594
Conc: 2.69 ppb



#51 Decachlorobiphenyl

R.T.: 12.433 min
Delta R.T.: -0.015 min
Response: 1679541014
Conc: 4.40 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/24 14:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231746.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 10:04:12
Operator : christp
Sample : jd87833-8 m
Misc : op54453,G2G6085,5.3,,,10,1
ALS Vial : 0 (Sig #1); 59 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 18:26:58 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	4.688	5.181	1398.4E6	1790.1E6	3.205	3.051
Spiked Amount 40.000			Recovery	=	8.01%	7.63%
51) S Decachlor...	11.316	12.434	1036.4E6	1645.1E6	2.623	4.309m#
Spiked Amount 40.000			Recovery	=	6.56%	10.77%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.1.21

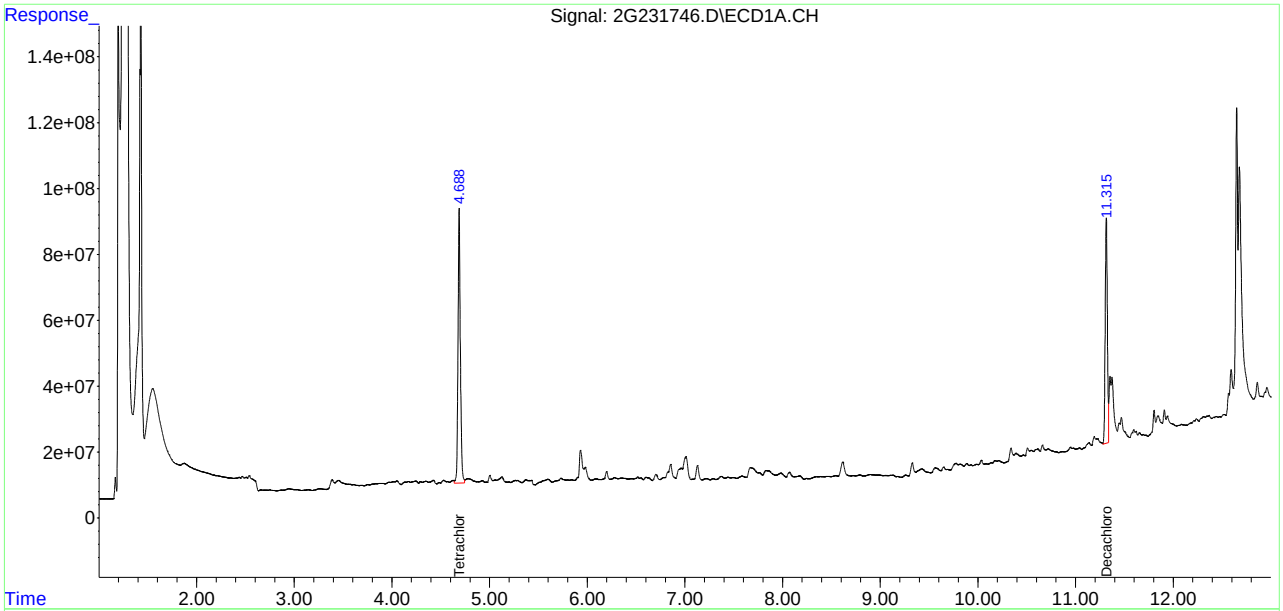
9

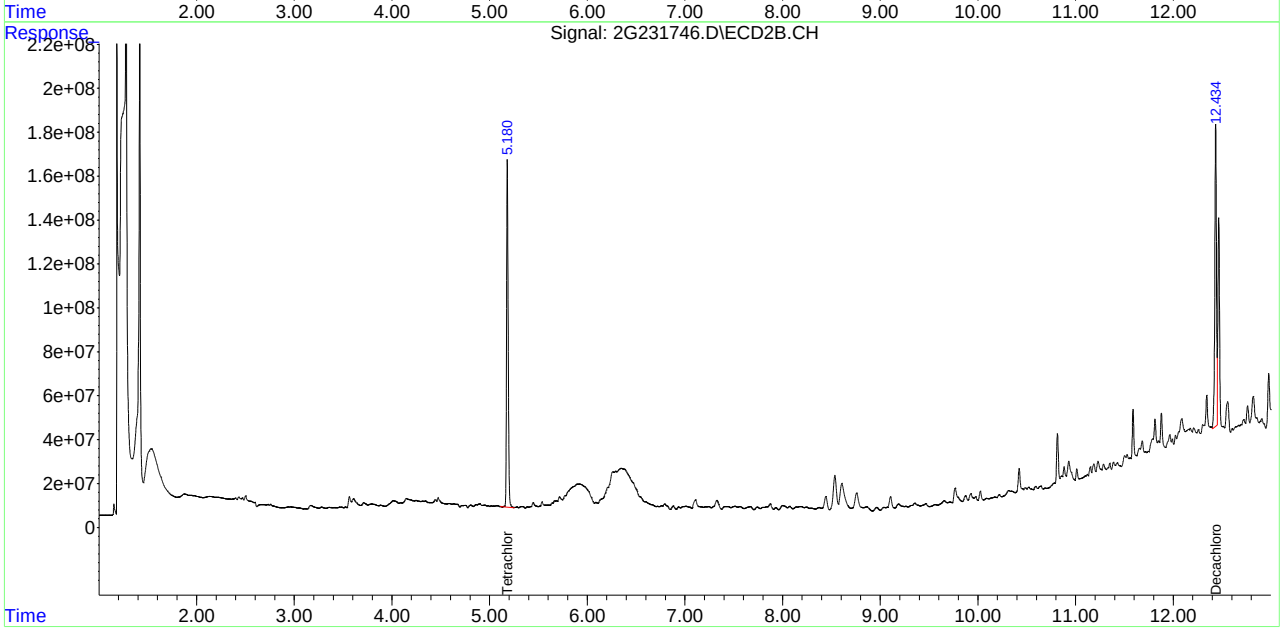
Quantitation Report (QT Reviewed)

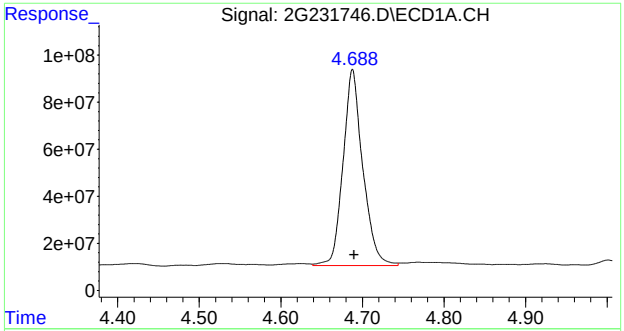
Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231746.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 10:04:12
Operator : christp
Sample : jd87833-8 m
Misc : op54453,G2G6085,5.3,,,10,1
ALS Vial : 0 (Sig #1); 59 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 18:26:58 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

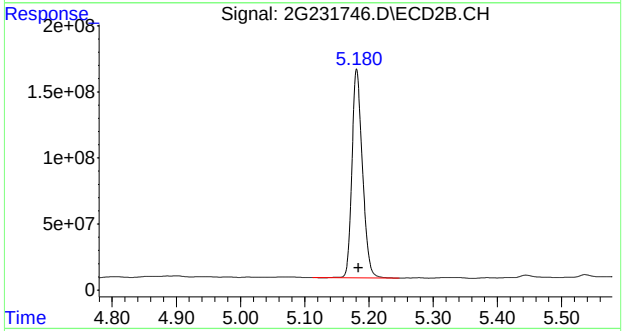






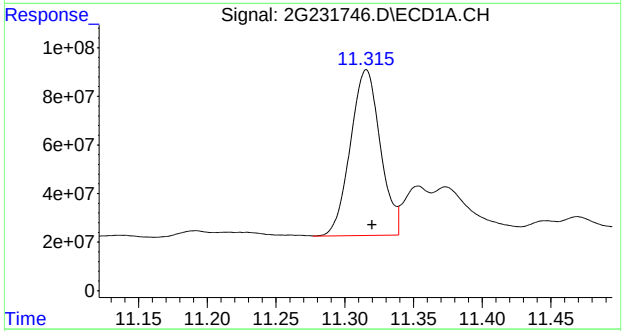
#1 Tetrachloro-m-xylene

R.T.: 4.688 min
Delta R.T.: -0.002 min
Response: 1398392618
Conc: 3.20 ppb



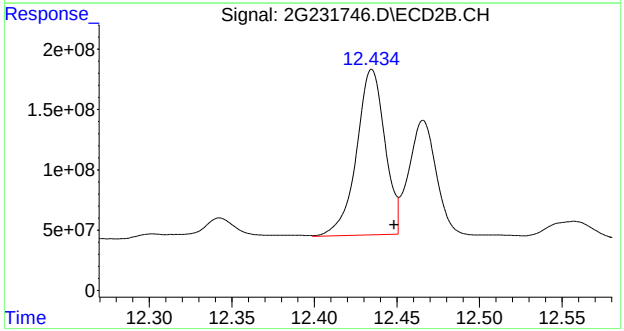
#1 Tetrachloro-m-xylene

R.T.: 5.181 min
Delta R.T.: -0.003 min
Response: 1790095258
Conc: 3.05 ppb



#51 Decachlorobiphenyl

R.T.: 11.316 min
Delta R.T.: -0.004 min
Response: 1036393642
Conc: 2.62 ppb



#51 Decachlorobiphenyl

R.T.: 12.434 min
Delta R.T.: -0.014 min
Response: 1645104392
Conc: 4.31 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/24 14:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231747.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 10:28:09
Operator : christp
Sample : jd87833-10 m
Misc : op54453,G2G6085,5.5,,,10,1
ALS Vial : 0 (Sig #1); 60 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 18:27:43 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	4.687	5.181	1557.7E6	1907.1E6	3.570m	3.251
Spiked Amount 40.000			Recovery	=	8.92%	8.13%
51) S Decachlor...	11.315	12.434	1072.7E6	1388.8E6	2.715	3.638m#
Spiked Amount 40.000			Recovery	=	6.79%	9.10%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

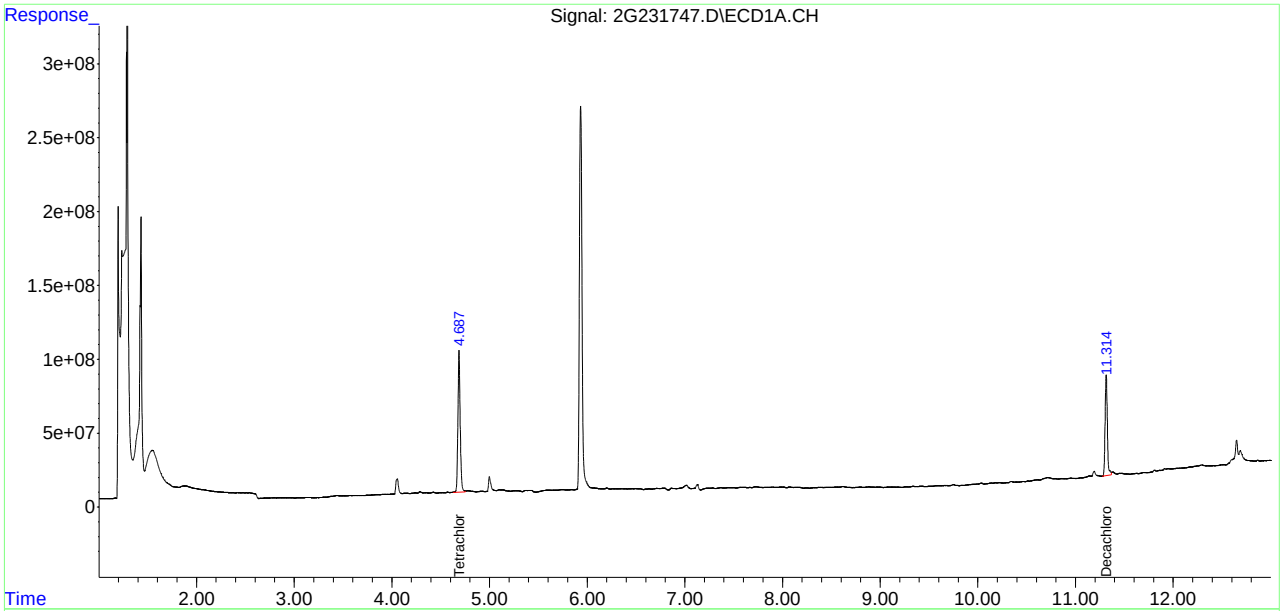
9.1.22
9

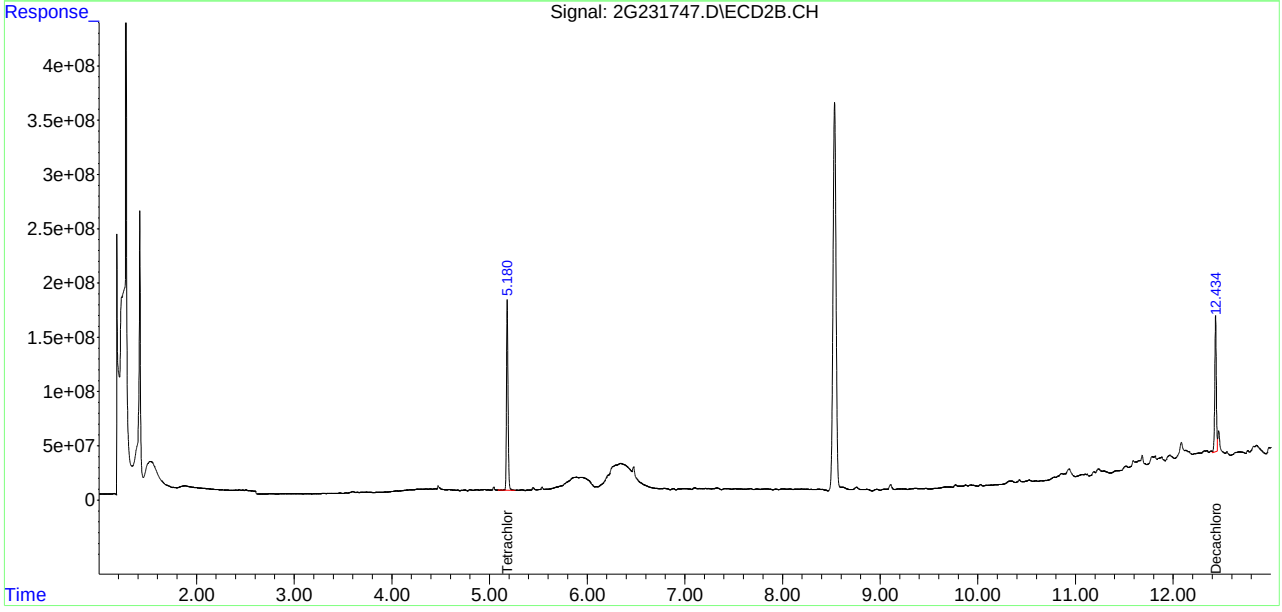
Quantitation Report (QT Reviewed)

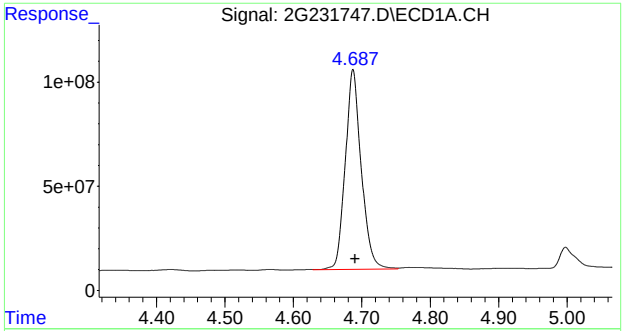
Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231747.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 10:28:09
Operator : christp
Sample : jd87833-10 m
Misc : op54453,G2G6085,5.5,,,10,1
ALS Vial : 0 (Sig #1); 60 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 18:27:43 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

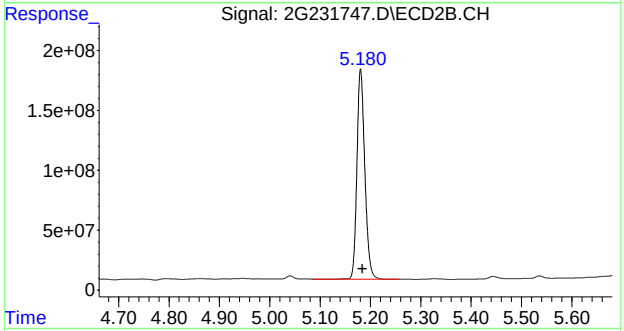






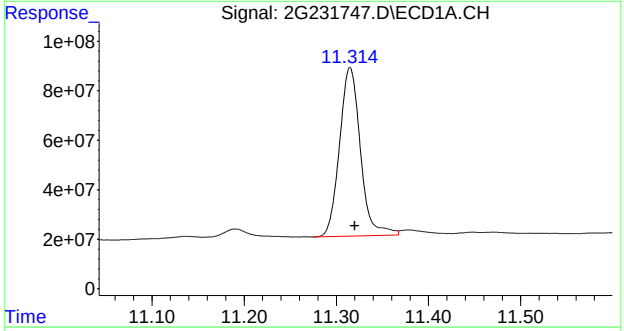
#1 Tetrachloro-m-xylene

R.T.: 4.687 min
Delta R.T.: -0.003 min
Response: 1557747186
Conc: 3.57 ppb m



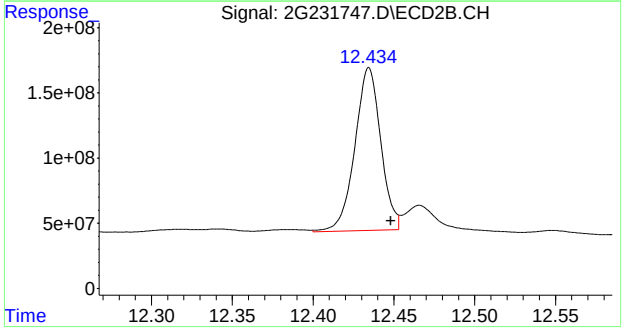
#1 Tetrachloro-m-xylene

R.T.: 5.181 min
Delta R.T.: -0.003 min
Response: 1907115837
Conc: 3.25 ppb



#51 Decachlorobiphenyl

R.T.: 11.315 min
Delta R.T.: -0.005 min
Response: 1072742754
Conc: 2.72 ppb



#51 Decachlorobiphenyl

R.T.: 12.434 min
Delta R.T.: -0.014 min
Response: 1388772752
Conc: 3.64 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/24 14:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231748.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 10:52:01
Operator : christp
Sample : jd87833-11 m
Misc : op54453,G2G6085,5.3,,,10,1
ALS Vial : 0 (Sig #1); 61 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 18:28:22 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	4.688	5.181	1387.0E6	1868.0E6	3.179	3.184
Spiked Amount 40.000			Recovery	=	7.95%	7.96%
51) S Decachlor...	11.315	12.434	1003.2E6	1459.3E6	2.540	3.823m#
Spiked Amount 40.000			Recovery	=	6.35%	9.56%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

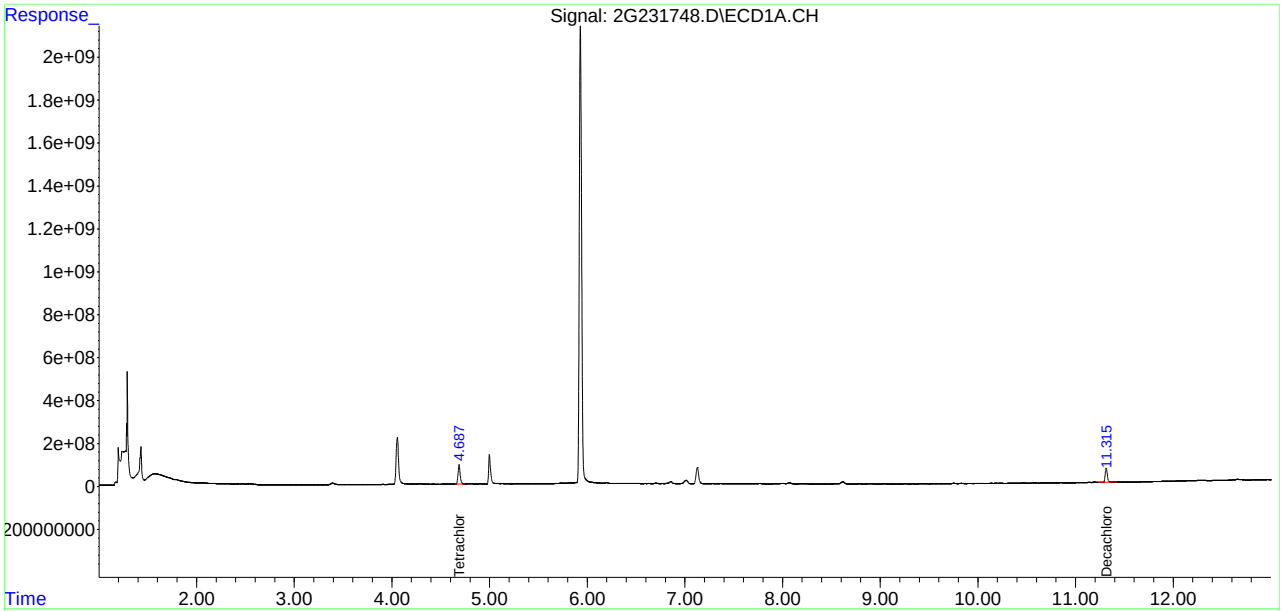
9.1.23
9

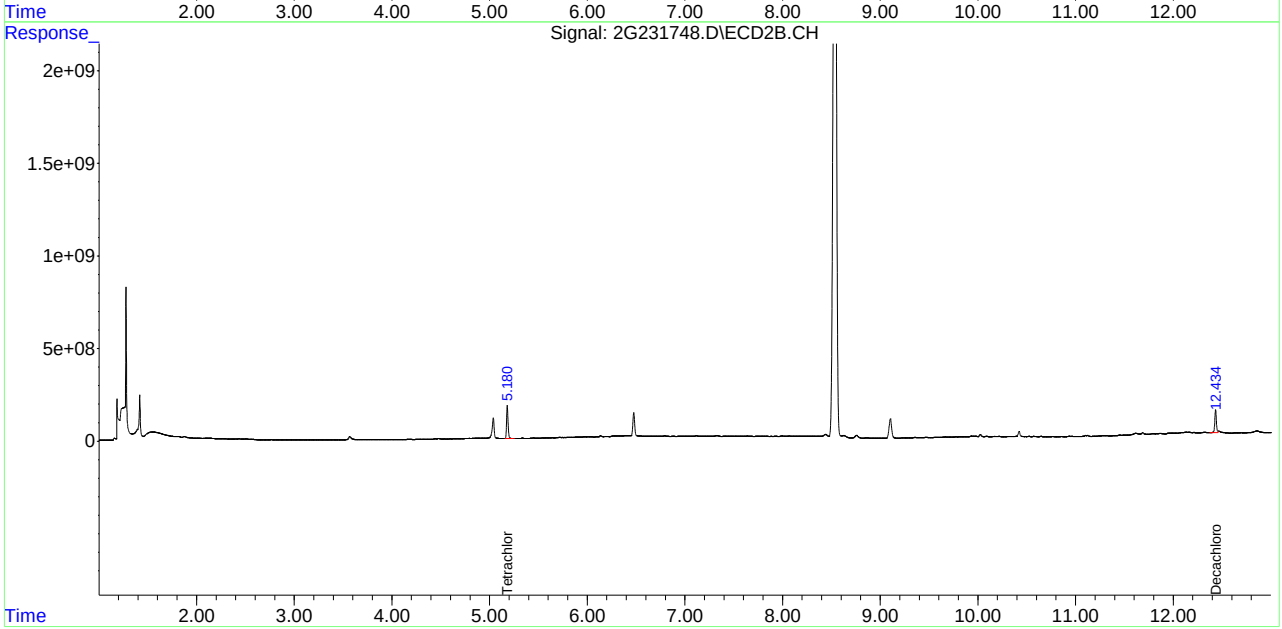
Quantitation Report (QT Reviewed)

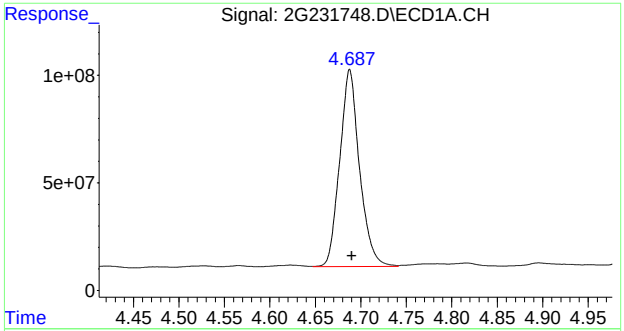
Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231748.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 10:52:01
Operator : christp
Sample : jd87833-11 m
Misc : op54453,G2G6085,5.3,,,10,1
ALS Vial : 0 (Sig #1); 61 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 18:28:22 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

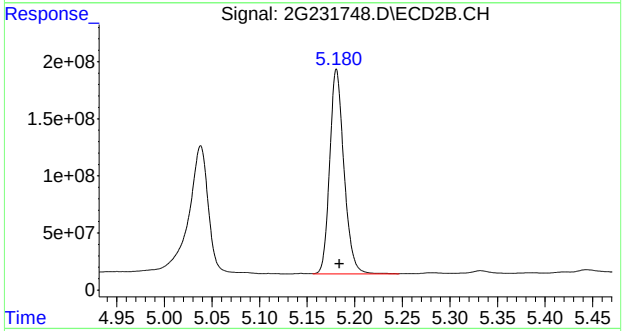






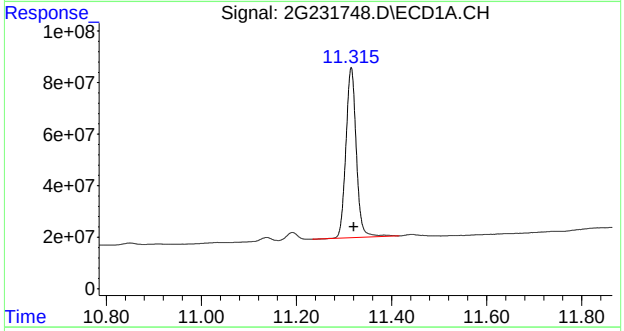
#1 Tetrachloro-m-xylene

R.T.: 4.688 min
Delta R.T.: -0.002 min
Response: 1386977832
Conc: 3.18 ppb



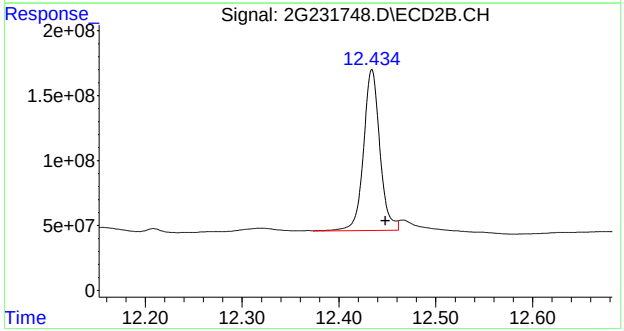
#1 Tetrachloro-m-xylene

R.T.: 5.181 min
Delta R.T.: -0.003 min
Response: 1867953716
Conc: 3.18 ppb



#51 Decachlorobiphenyl

R.T.: 11.315 min
Delta R.T.: -0.005 min
Response: 1003235718
Conc: 2.54 ppb



#51 Decachlorobiphenyl

R.T.: 12.434 min
Delta R.T.: -0.014 min
Response: 1459317128
Conc: 3.82 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/24 14:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231749.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 11:15:55
Operator : christp
Sample : jd87833-12 m
Misc : op54453,G2G6085,5.4,,,10,1
ALS Vial : 0 (Sig #1); 62 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 18:28:55 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	4.687	5.182	1148.3E6	1658.8E6	2.632	2.827
Spiked Amount 40.000			Recovery	=	6.58%	7.07%
51) S Decachlor...	11.315	12.433	858.9E6	1365.0E6	2.174	3.576m#
Spiked Amount 40.000			Recovery	=	5.43%	8.94%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

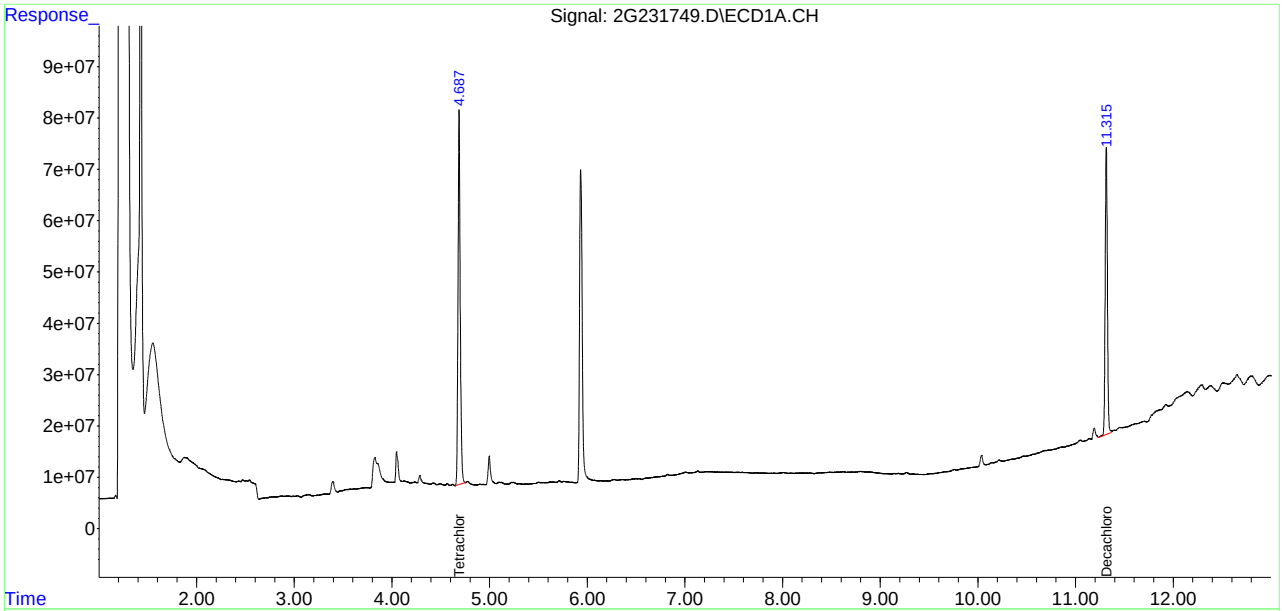
9.1.24
9

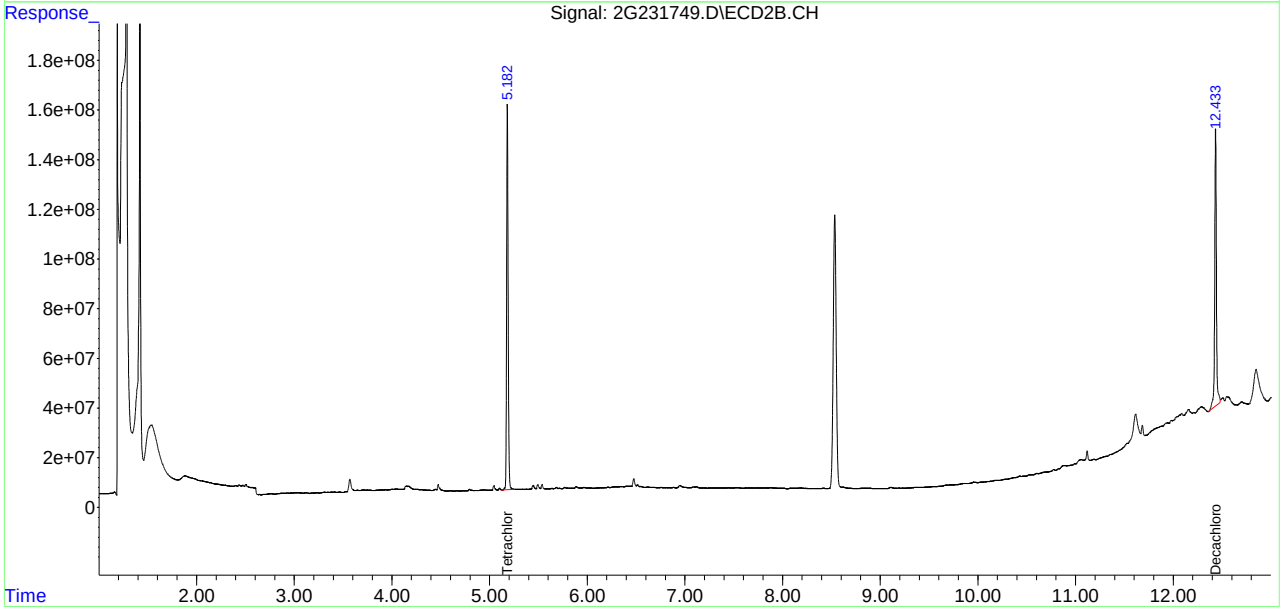
Quantitation Report (QT Reviewed)

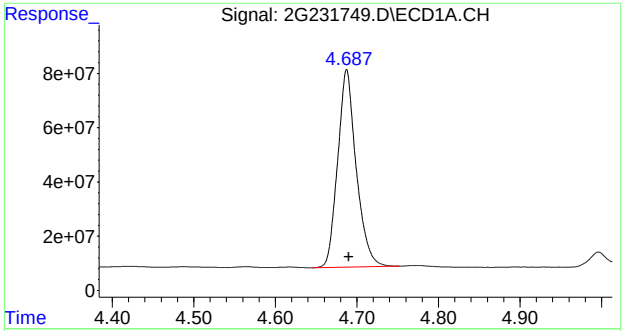
Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231749.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 11:15:55
Operator : christp
Sample : jd87833-12 m
Misc : op54453,G2G6085,5.4,,,10,1
ALS Vial : 0 (Sig #1); 62 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 18:28:55 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

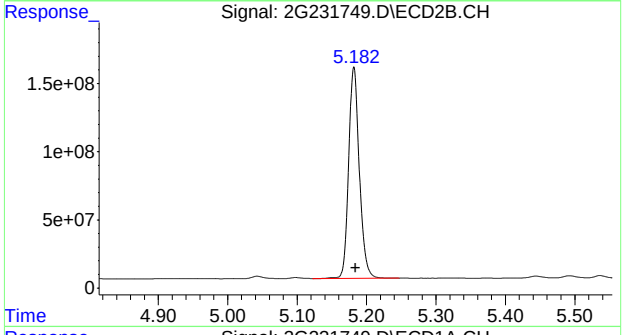






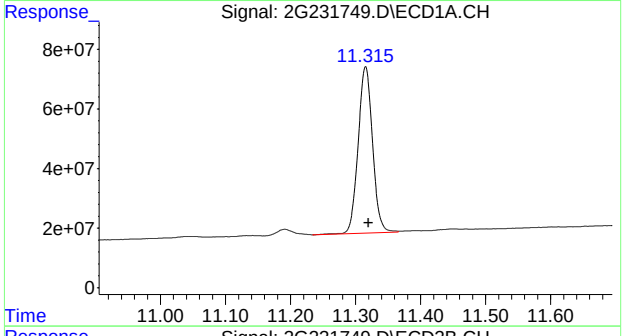
#1 Tetrachloro-m-xylene

R.T.: 4.687 min
Delta R.T.: -0.003 min
Response: 1148253784
Conc: 2.63 ppb



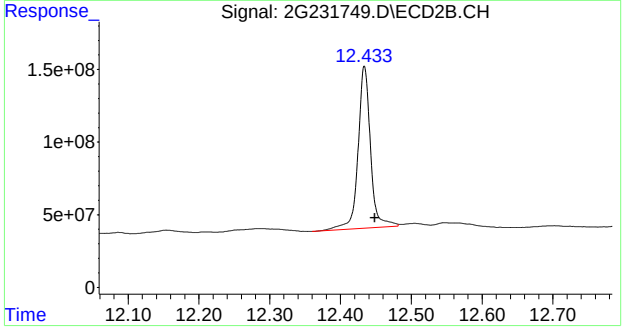
#1 Tetrachloro-m-xylene

R.T.: 5.182 min
Delta R.T.: -0.002 min
Response: 1658776076
Conc: 2.83 ppb



#51 Decachlorobiphenyl

R.T.: 11.315 min
Delta R.T.: -0.004 min
Response: 858901433
Conc: 2.17 ppb



#51 Decachlorobiphenyl

R.T.: 12.433 min
Delta R.T.: -0.015 min
Response: 1365023193
Conc: 3.58 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/24 14:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231750.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 11:39:39
Operator : christp
Sample : jd87833-14 m
Misc : op54453,G2G6085,5.3,,,10,1
ALS Vial : 0 (Sig #1); 63 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 18:30:20 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	4.688	5.181	1520.0E6	1847.8E6	3.483	3.150
Spiked Amount 40.000			Recovery	=	8.71%	7.88%
51) S Decachlor...	11.314	12.433	969.6E6	1467.4E6	2.454m	3.844 #
Spiked Amount 40.000			Recovery	=	6.13%	9.61%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

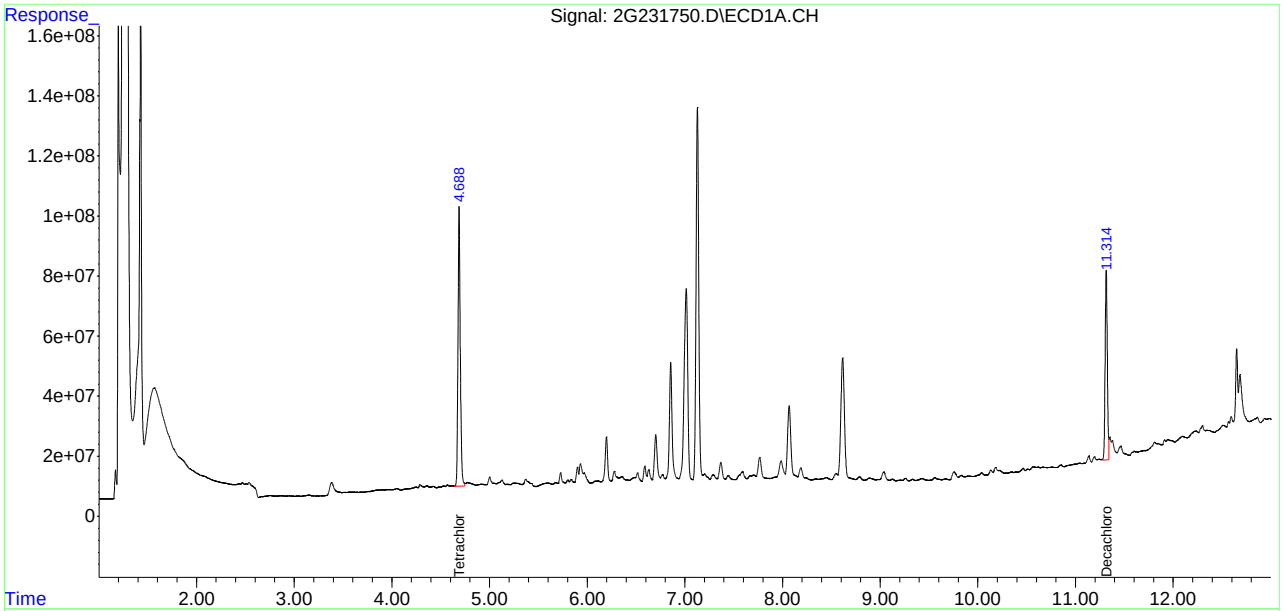
9.1.25
9

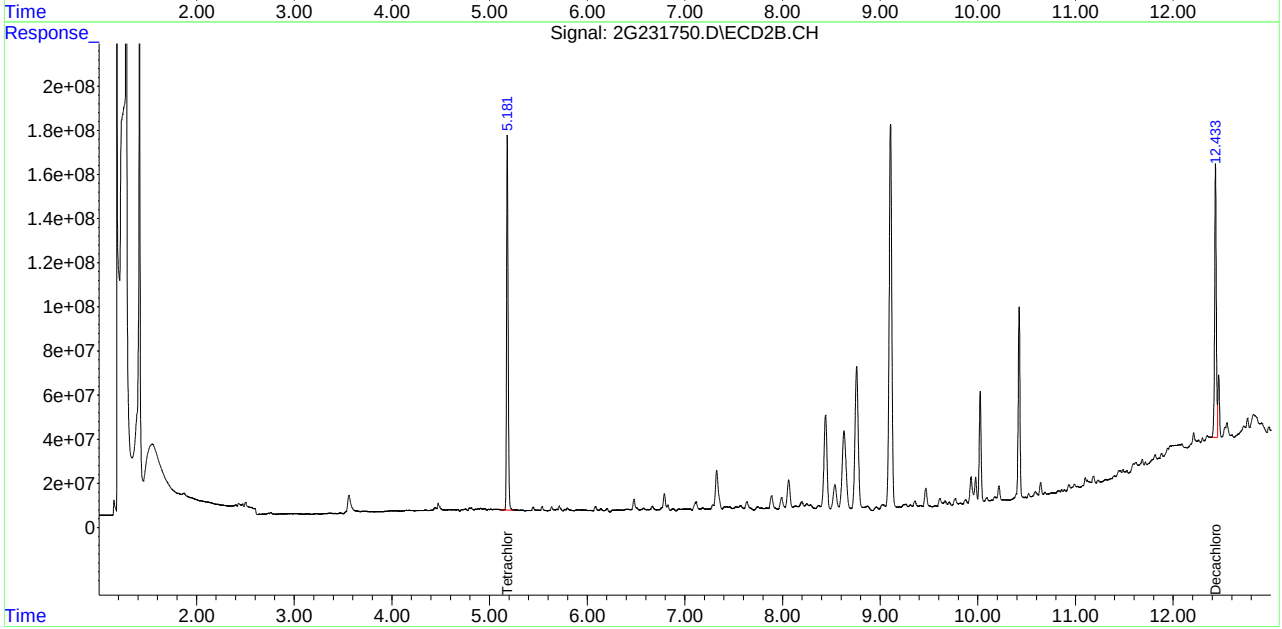
Quantitation Report (QT Reviewed)

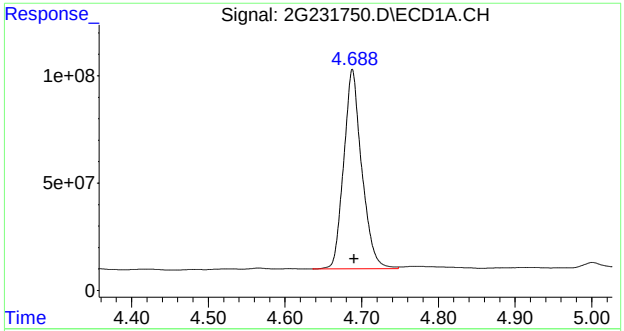
Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231750.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 11:39:39
Operator : christp
Sample : jd87833-14 m
Misc : op54453,G2G6085,5.3,,,10,1
ALS Vial : 0 (Sig #1); 63 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 18:30:20 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

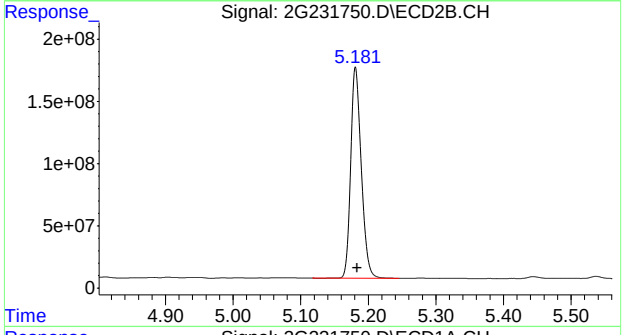






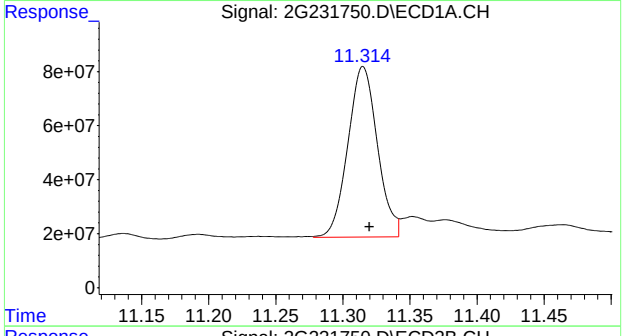
#1 Tetrachloro-m-xylene

R.T.: 4.688 min
Delta R.T.: -0.002 min
Response: 1519973848
Conc: 3.48 ppb



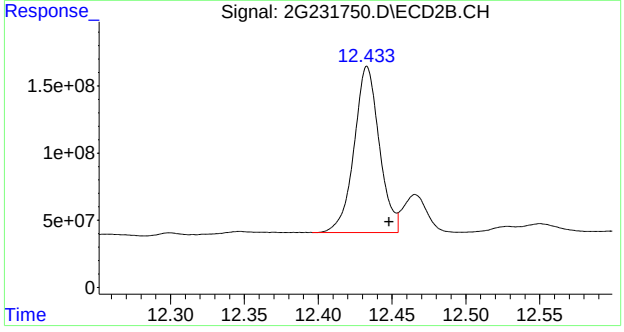
#1 Tetrachloro-m-xylene

R.T.: 5.181 min
Delta R.T.: -0.002 min
Response: 1847763820
Conc: 3.15 ppb



#51 Decachlorobiphenyl

R.T.: 11.314 min
Delta R.T.: -0.005 min
Response: 969641970
Conc: 2.45 ppb m



#51 Decachlorobiphenyl

R.T.: 12.433 min
Delta R.T.: -0.015 min
Response: 1467439009
Conc: 3.84 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/24 18:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231755.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 13:39:46
Operator : christp
Sample : jd87833-15 m
Misc : op54453,G2G6085,5.1,,,10,1
ALS Vial : 0 (Sig #1); 65 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 18:31:18 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	4.688	5.180	1423.5E6	1922.9E6	3.262	3.278m
	Spiked Amount 40.000			Recovery	=	8.15%	8.20%
51) S	Decachlor...	11.315	12.435	1070.8E6	1660.2E6	2.711	4.349m#
	Spiked Amount 40.000			Recovery	=	6.78%	10.87%
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

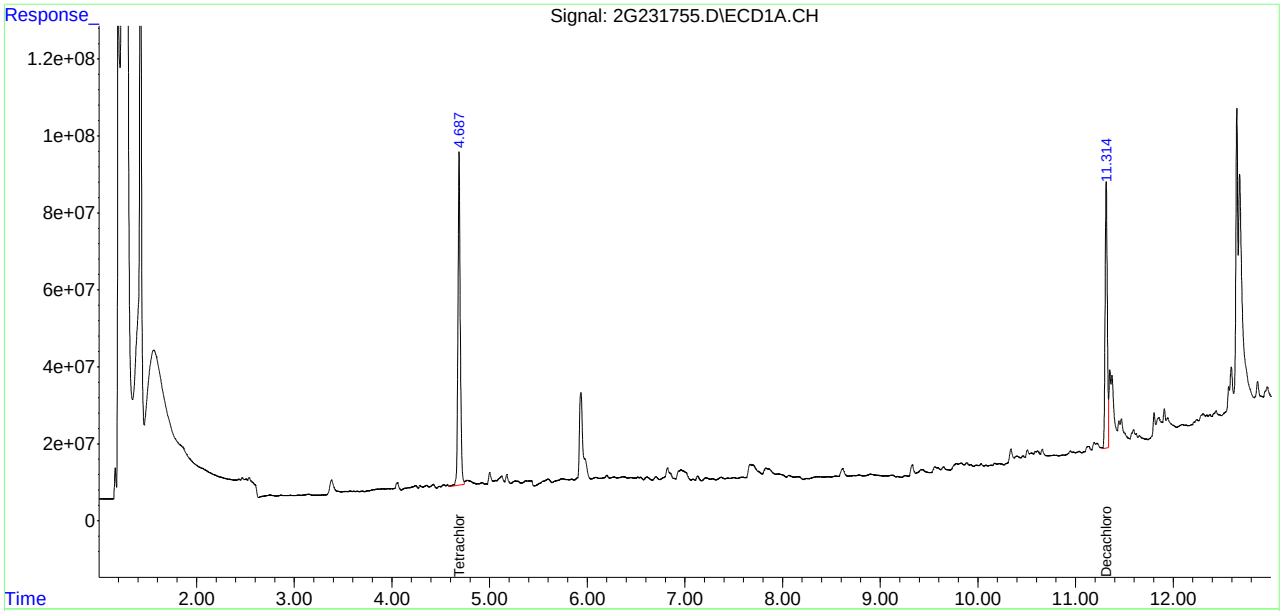
9.1.26
9

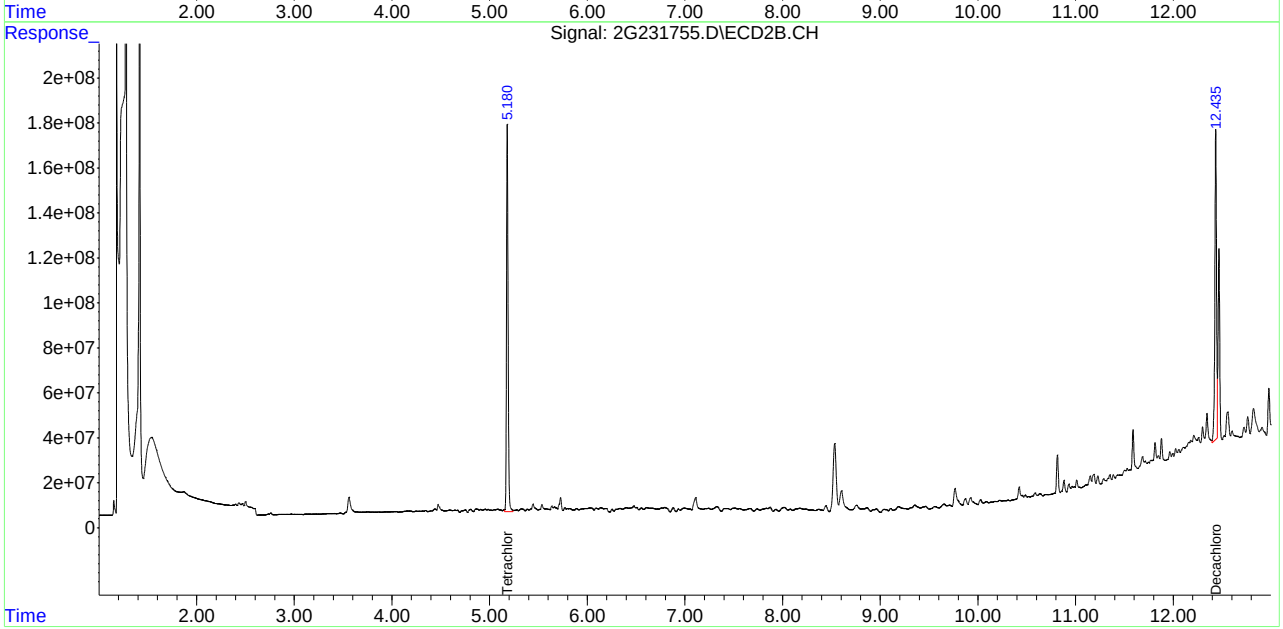
Quantitation Report (QT Reviewed)

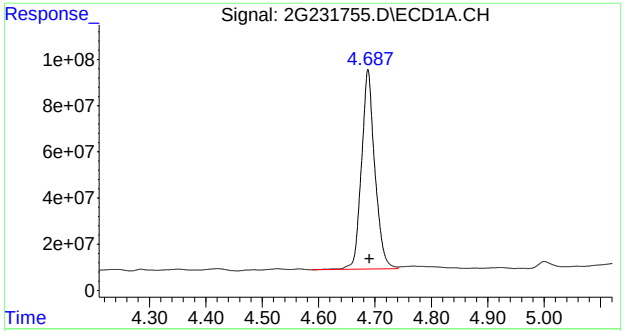
Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231755.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 13:39:46
Operator : christp
Sample : jd87833-15 m
Misc : op54453,G2G6085,5.1,,,10,1
ALS Vial : 0 (Sig #1); 65 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 18:31:18 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

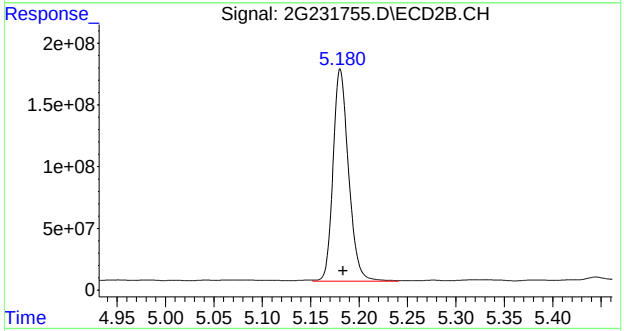






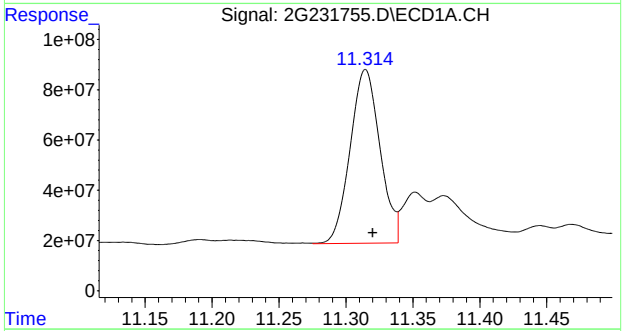
#1 Tetrachloro-m-xylene

R.T.: 4.688 min
Delta R.T.: -0.002 min
Response: 1423454766
Conc: 3.26 ppb



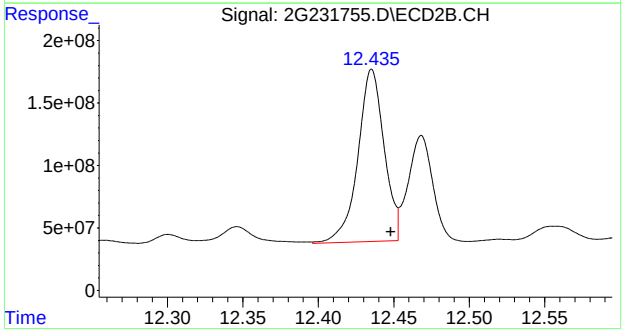
#1 Tetrachloro-m-xylene

R.T.: 5.180 min
Delta R.T.: -0.004 min
Response: 1922930610
Conc: 3.28 ppb m



#51 Decachlorobiphenyl

R.T.: 11.315 min
Delta R.T.: -0.005 min
Response: 1070827158
Conc: 2.71 ppb



#51 Decachlorobiphenyl

R.T.: 12.435 min
Delta R.T.: -0.013 min
Response: 1660186266
Conc: 4.35 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/09/24 18:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231756.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 14:03:55
Operator : christp
Sample : jd87833-16 m
Misc : op54453,G2G6085,5.2,,,10,1
ALS Vial : 0 (Sig #1); 66 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 20:17:12 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	4.688	5.182	1402.3E6	1835.7E6	3.214	3.129
Spiked Amount 40.000			Recovery	=	8.04%	7.82%
51) S Decachlor...	11.314	12.435	1060.5E6	1336.5E6	2.684	3.501m#
Spiked Amount 40.000			Recovery	=	6.71%	8.75%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

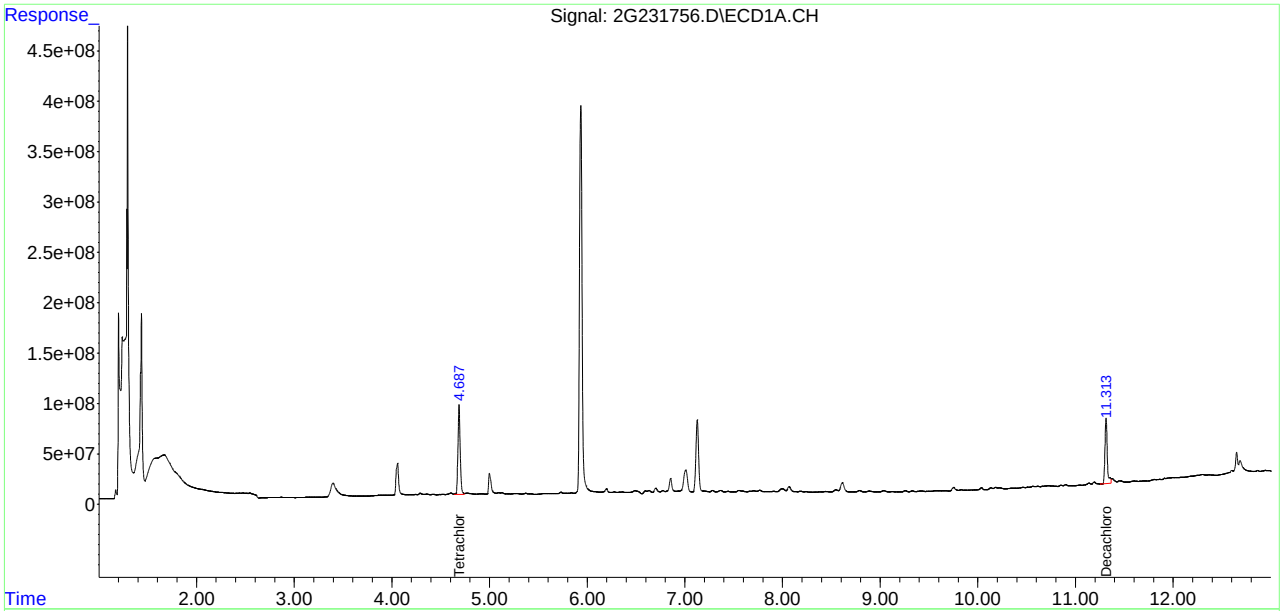
9.1.27
9

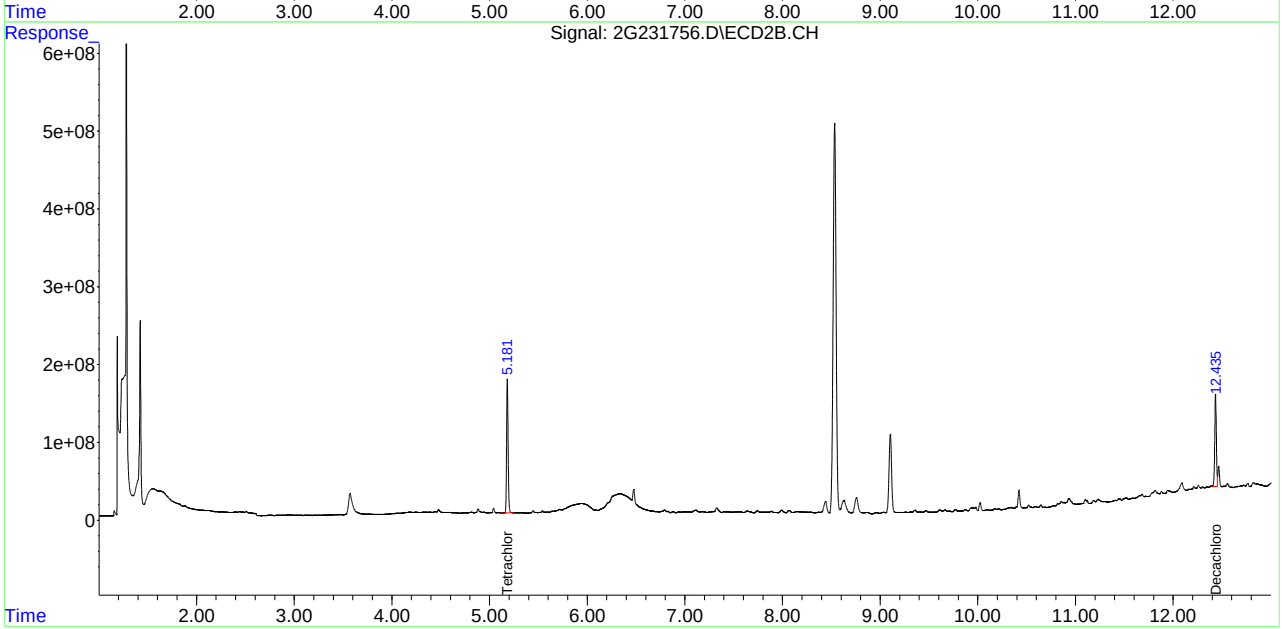
Quantitation Report (QT Reviewed)

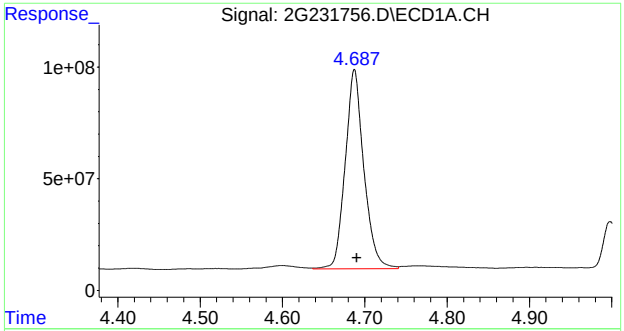
Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231756.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 14:03:55
Operator : christp
Sample : jd87833-16 m
Misc : op54453,G2G6085,5.2,,,10,1
ALS Vial : 0 (Sig #1); 66 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 20:17:12 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

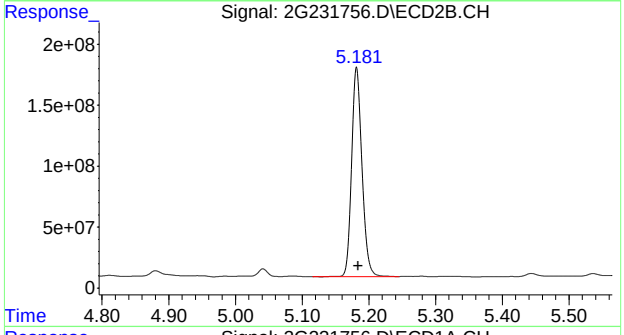






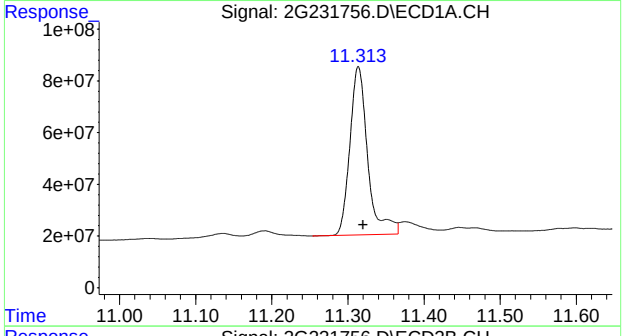
#1 Tetrachloro-m-xylene

R.T.: 4.688 min
Delta R.T.: -0.003 min
Response: 1402281231
Conc: 3.21 ppb



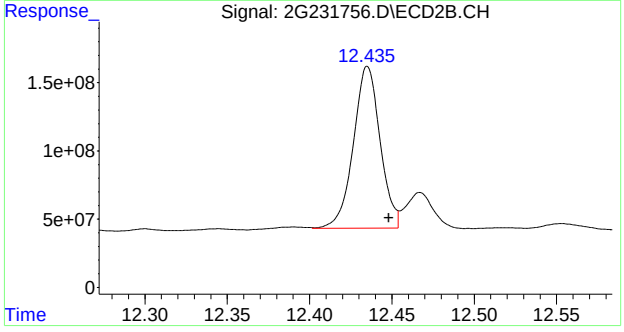
#1 Tetrachloro-m-xylene

R.T.: 5.182 min
Delta R.T.: -0.002 min
Response: 1835703619
Conc: 3.13 ppb



#51 Decachlorobiphenyl

R.T.: 11.314 min
Delta R.T.: -0.006 min
Response: 1060486249
Conc: 2.68 ppb



#51 Decachlorobiphenyl

R.T.: 12.435 min
Delta R.T.: -0.013 min
Response: 1336506887
Conc: 3.50 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/15/24 16:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\carlos\1G7004\
Data File : 1g196195.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08-May-24, 00:24:58
Operator : christp
Sample : op54399-mb1
Misc : op54399,g1g7004,250,,,2,1
ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 08 14:30:57 2024
Quant Method : C:\msdchem\1\data\carlos\1G7004\1PST6859a.M
Quant Title : PEST/PCB
QLast Update : Wed May 08 14:18:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.232	1.137	384.2E6	435.3E6	50.000m	50.000m
27) I 1-bromo-2...	1.232	1.137	396.4E6	435.5E6	50.000m	50.000m
33) I 1-bromo-2...	1.232	1.137	398.6E6	434.7E6	50.000m	50.000m
System Monitoring Compounds						
2) SAB Tetrachlo...	1.696	1.734	105.9E6	77144745	14.388	14.153
Spiked Amount	40.000	Range 30 - 150	Recovery	=	35.97%	35.38%
26) SA Decachlor...	8.611	9.951	124.3E6	123.2E6	16.582	13.286
Spiked Amount	40.000		Recovery	=	41.46%	33.22%
Target Compounds						
20) MA 4,4'-DDT	5.237	6.127	146.1E6	150.3E6	24.499	23.942
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

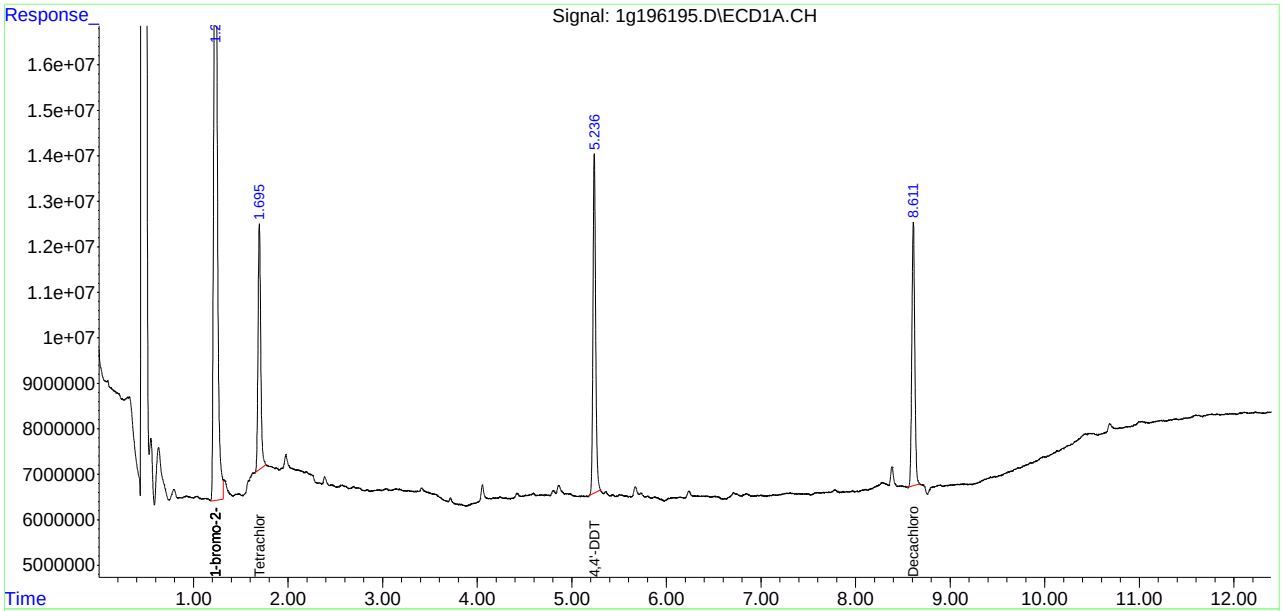
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

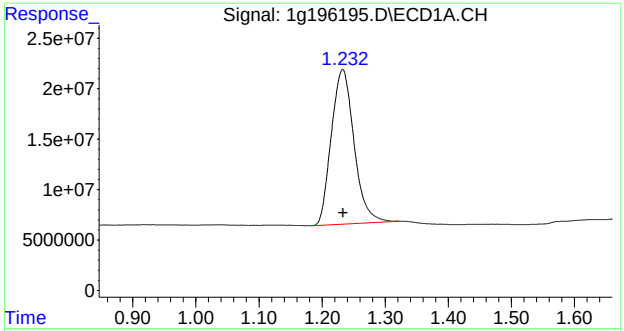
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\carlos\1G7004\
Data File : 1g196195.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08-May-24, 00:24:58
Operator : christp
Sample : op54399-mb1
Misc : op54399,g1g7004,250,,,2,1
ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 08 14:30:57 2024
Quant Method : C:\msdchem\1\data\carlos\1G7004\1PST6859a.M
Quant Title : PEST/PCB
QLast Update : Wed May 08 14:18:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

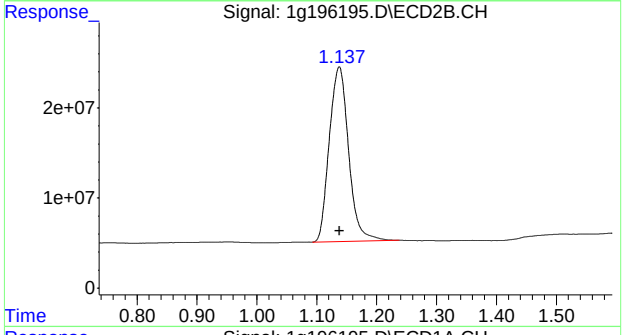
Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





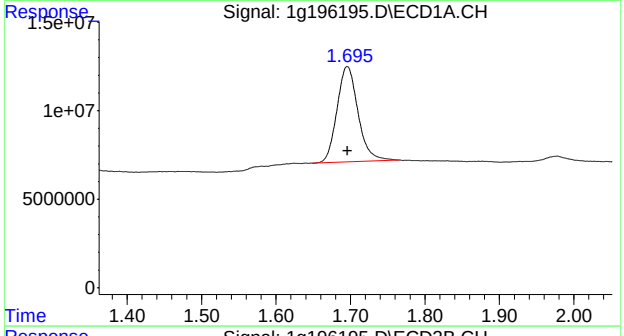
#1 1-bromo-2-nitrobenzene

R.T.: 1.232 min
Delta R.T.: 0.000 min
Response: 384230361
Conc: 50.00 PPB m



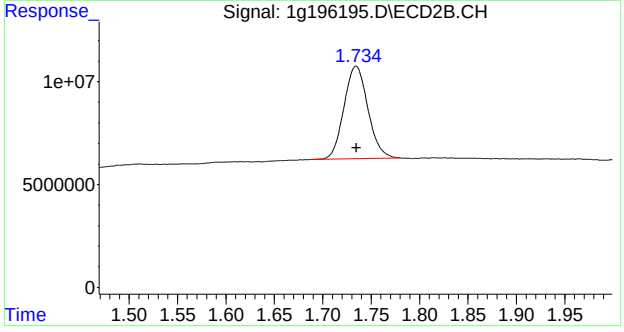
#1 1-bromo-2-nitrobenzene

R.T.: 1.137 min
Delta R.T.: 0.000 min
Response: 435295033
Conc: 50.00 PPB m



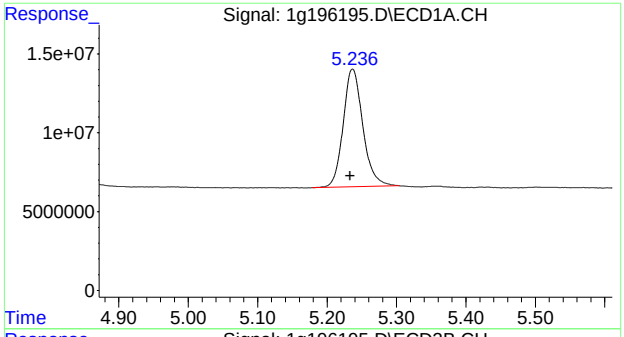
#2 Tetrachloro-m-xylene

R.T.: 1.696 min
Delta R.T.: 0.000 min
Response: 105866424
Conc: 14.39 PPB



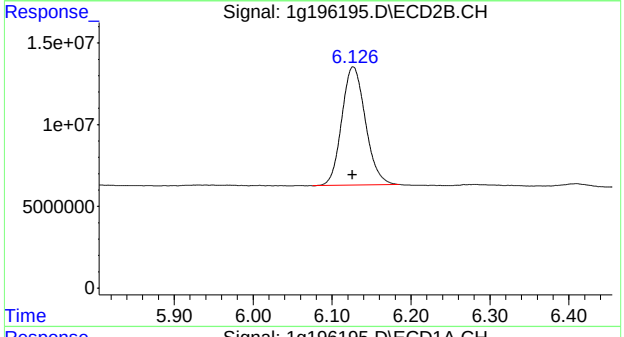
#2 Tetrachloro-m-xylene

R.T.: 1.734 min
Delta R.T.: 0.000 min
Response: 77144745
Conc: 14.15 PPB



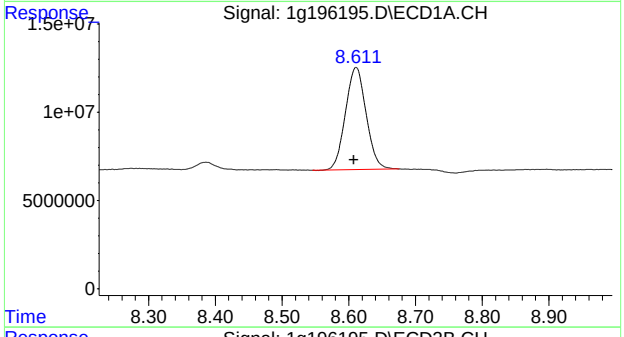
#20 4,4'-DDT

R.T.: 5.237 min
Delta R.T.: 0.003 min
Response: 146090113
Conc: 24.50 PPB



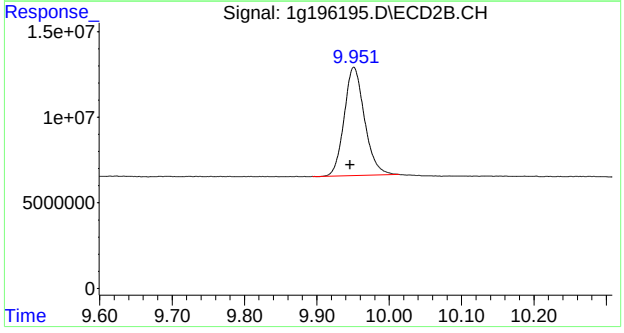
#20 4,4'-DDT

R.T.: 6.127 min
Delta R.T.: 0.000 min
Response: 150313220
Conc: 23.94 PPB



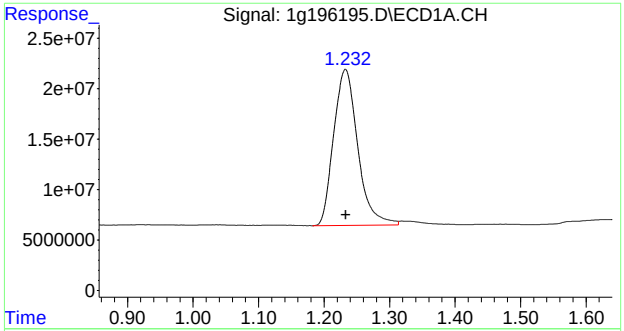
#26 Decachlorobiphenyl

R.T.: 8.611 min
Delta R.T.: 0.004 min
Response: 124335005
Conc: 16.58 PPB



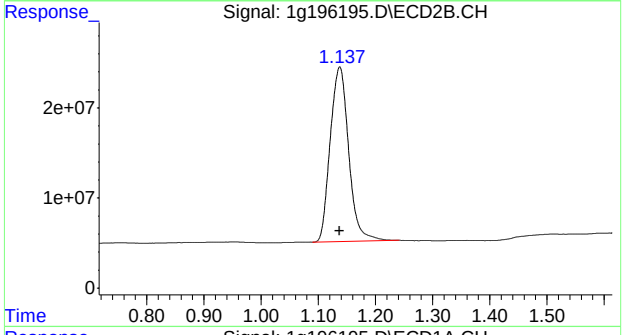
#26 Decachlorobiphenyl

R.T.: 9.951 min
Delta R.T.: 0.005 min
Response: 123175688
Conc: 13.29 PPB



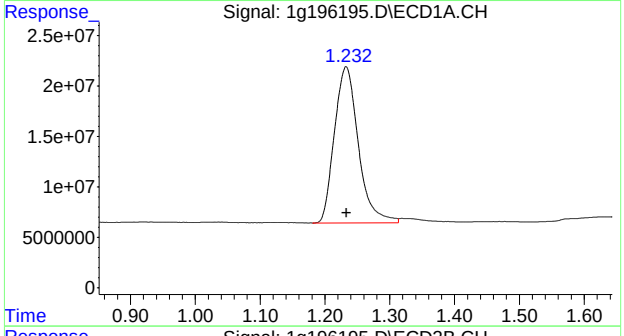
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.232 min
Delta R.T.: 0.000 min
Response: 396413072
Conc: 50.00 PPB m



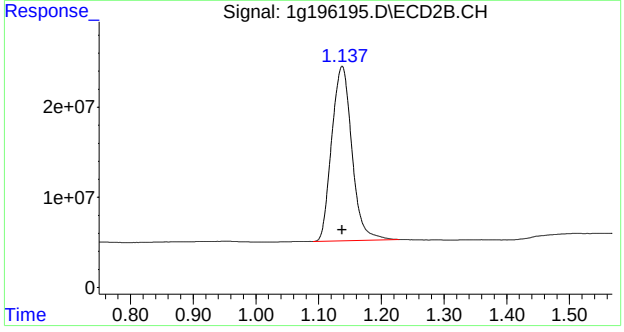
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.137 min
Delta R.T.: 0.000 min
Response: 435535725
Conc: 50.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.232 min
Delta R.T.: 0.000 min
Response: 398604435
Conc: 50.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.137 min
Delta R.T.: 0.000 min
Response: 434736979
Conc: 50.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/15/24 12:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\1G7013\
Data File : 1g196359.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14-May-24, 10:08:46
Operator : rebeccak
Sample : op54554a-mb1
Misc : op54554a,g1g7013,250,,,2,1
ALS Vial : 70 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 15 11:40:49 2024
Quant Method : C:\msdchem\1\data\chrisc2\1G7013\1PST6859a.M
Quant Title : PEST/PCB
QLast Update : Wed May 15 07:20:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.220	1.127	349.2E6	361.8E6	50.000m	50.000m
27) I 1-bromo-2...	1.220	1.127	343.6E6	354.5E6	50.000m	50.000m
33) I 1-bromo-2...	1.220	1.127	344.6E6	356.2E6	50.000m	50.000m
System Monitoring Compounds						
2) SAB Tetrachlo...	1.682	1.724	178.9E6	118.7E6	26.750m	26.195m
Spiked Amount 40.000	Range 30 - 150		Recovery =		66.88%	65.49%
26) SA Decachlor...	8.598	9.946	229.5E6	205.8E6	33.684	26.714
Spiked Amount 40.000			Recovery =		84.21%	66.78%
Target Compounds						
20) MA 4,4'-DDT	5.225	6.118	8242945	8153671	1.521m	1.563m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

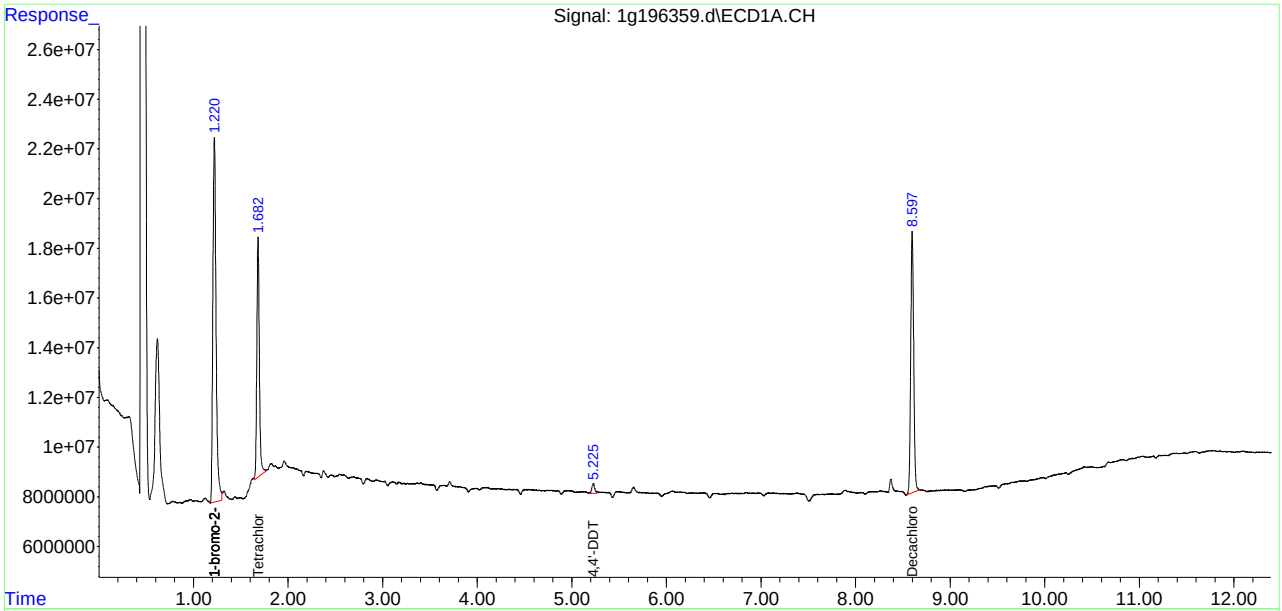
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

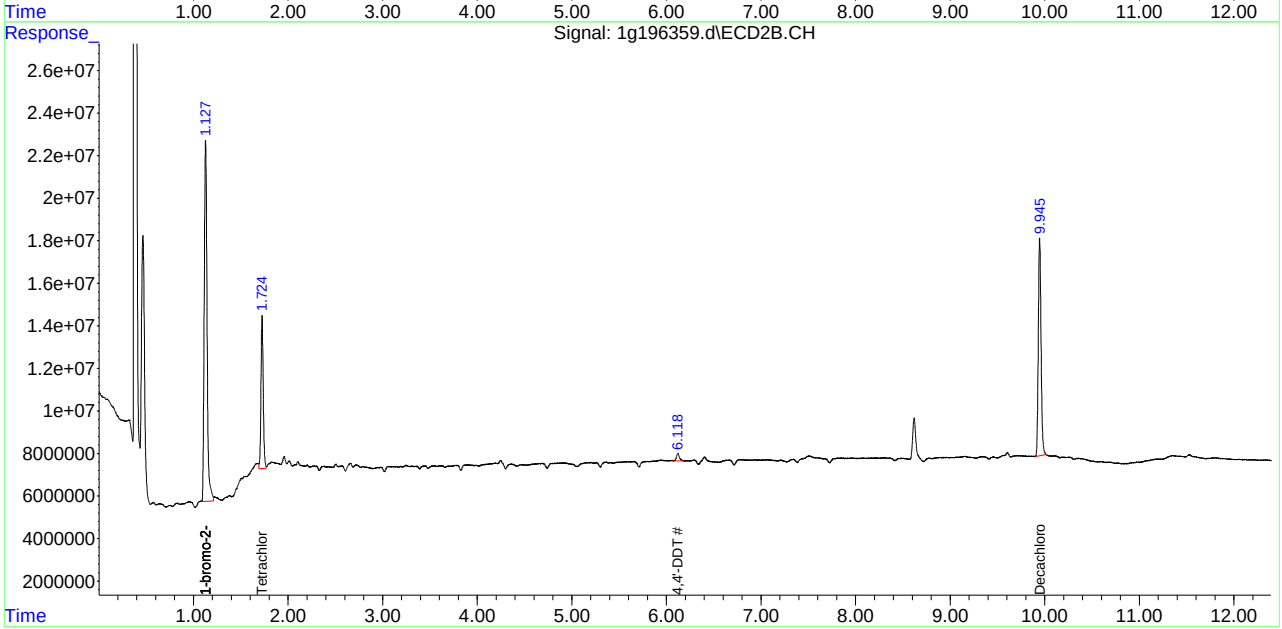
Quantitation Report (QT Reviewed)

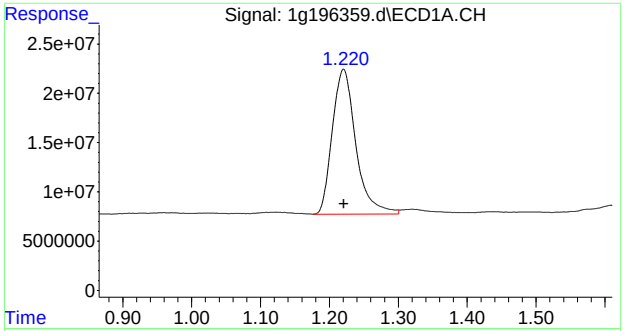
Data Path : C:\msdchem\1\data\1G7013\
Data File : 1g196359.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 14-May-24, 10:08:46
Operator : rebeccak
Sample : op54554a-mb1
Misc : op54554a,g1g7013,250,,,2,1
ALS Vial : 70 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 15 11:40:49 2024
Quant Method : C:\msdchem\1\data\chrisc2\1G7013\1PST6859a.M
Quant Title : PEST/PCB
QLast Update : Wed May 15 07:20:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

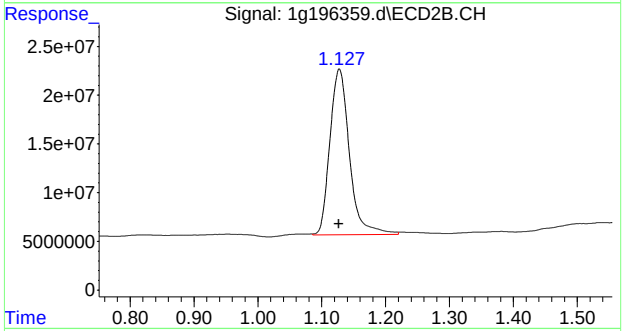






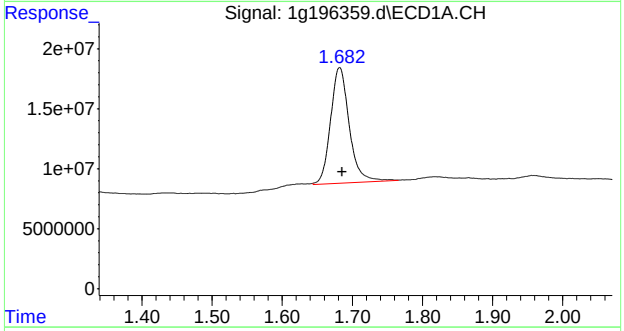
#1 1-bromo-2-nitrobenzene

R.T.: 1.220 min
Delta R.T.: 0.000 min
Response: 349171278
Conc: 50.00 PPB m



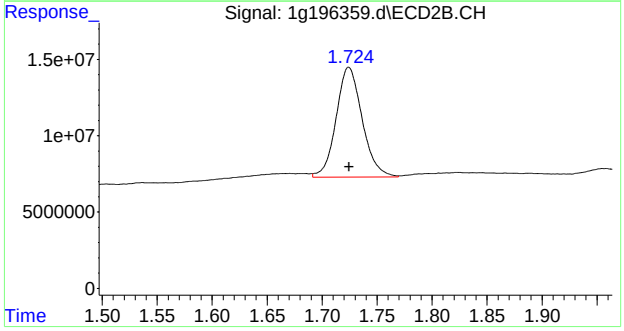
#1 1-bromo-2-nitrobenzene

R.T.: 1.127 min
Delta R.T.: 0.000 min
Response: 361755387
Conc: 50.00 PPB m



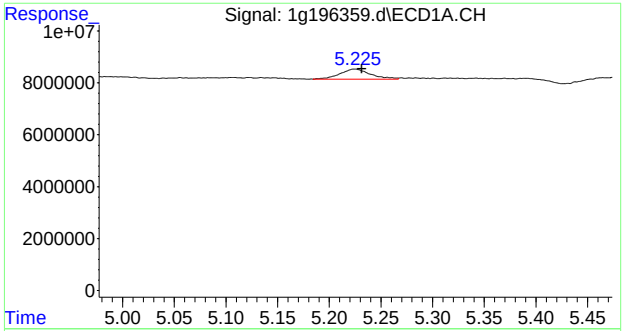
#2 Tetrachloro-m-xylene

R.T.: 1.682 min
Delta R.T.: -0.004 min
Response: 178870712
Conc: 26.75 PPB m



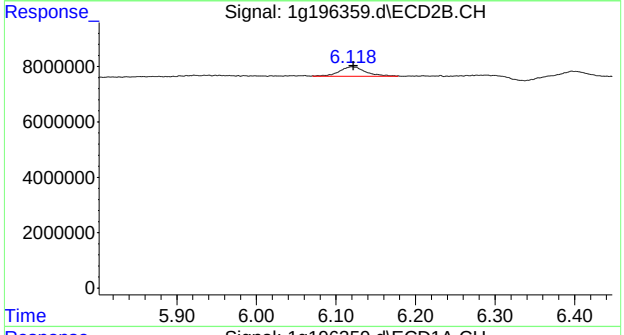
#2 Tetrachloro-m-xylene

R.T.: 1.724 min
Delta R.T.: 0.000 min
Response: 118660444
Conc: 26.19 PPB m



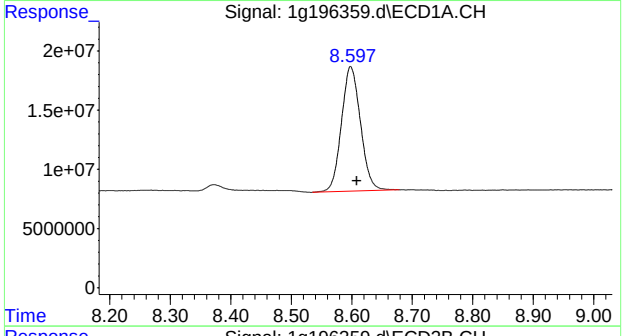
#20 4,4'-DDT

R.T.: 5.225 min
Delta R.T.: -0.006 min
Response: 8242945
Conc: 1.52 PPB m



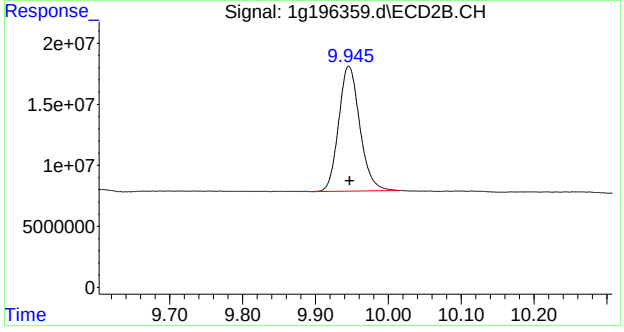
#20 4,4'-DDT

R.T.: 6.118 min
Delta R.T.: -0.003 min
Response: 8153671
Conc: 1.56 PPB m



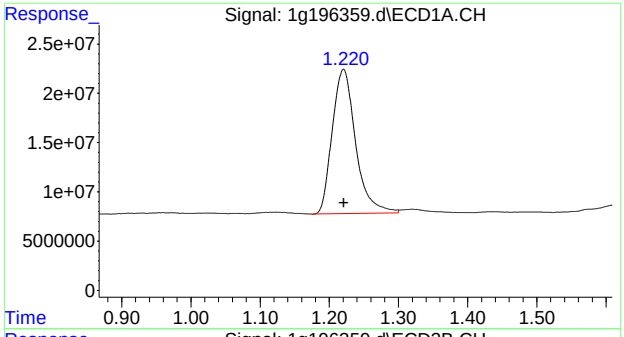
#26 Decachlorobiphenyl

R.T.: 8.598 min
Delta R.T.: -0.010 min
Response: 229516403
Conc: 33.68 PPB



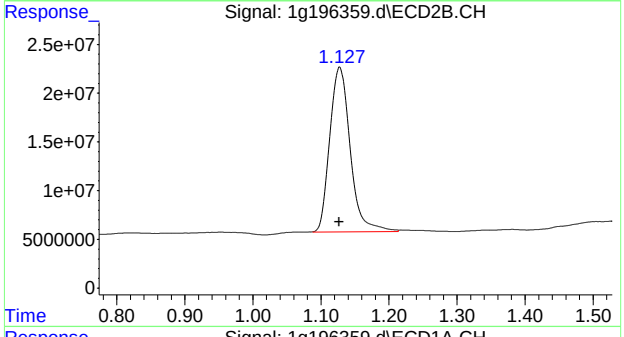
#26 Decachlorobiphenyl

R.T.: 9.946 min
Delta R.T.: -0.001 min
Response: 205820288
Conc: 26.71 PPB



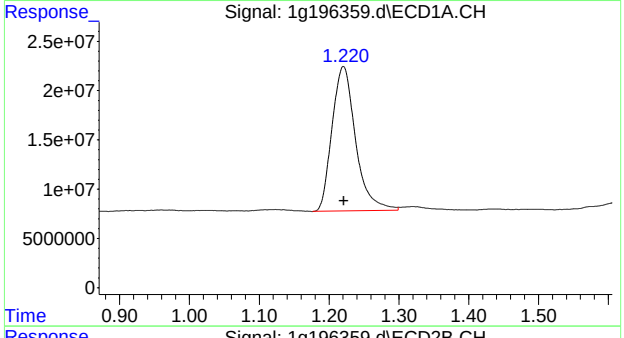
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.220 min
Delta R.T.: 0.000 min
Response: 343614409
Conc: 50.00 PPB m



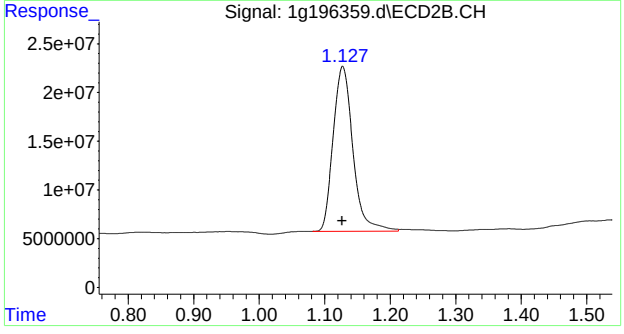
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.127 min
Delta R.T.: 0.000 min
Response: 354541833
Conc: 50.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.220 min
Delta R.T.: 0.000 min
Response: 344634497
Conc: 50.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.127 min
Delta R.T.: 0.000 min
Response: 356177274
Conc: 50.00 PPB m

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231733.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 04:51:01
Operator : christp
Sample : op54453-mb1 m
Misc : op54453,G2G6085,5.0,,,10,1
ALS Vial : 0 (Sig #1); 49 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 12:46:04 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	4.688	5.182	1740.5E6	2330.6E6	3.989	3.973
	Spiked Amount 40.000			Recovery	=	9.97%	9.93%
51) S	Decachlor...	11.315	12.435	1576.4E6	1442.1E6	3.990	3.778
	Spiked Amount 40.000			Recovery	=	9.98%	9.45%
	Target Compounds						

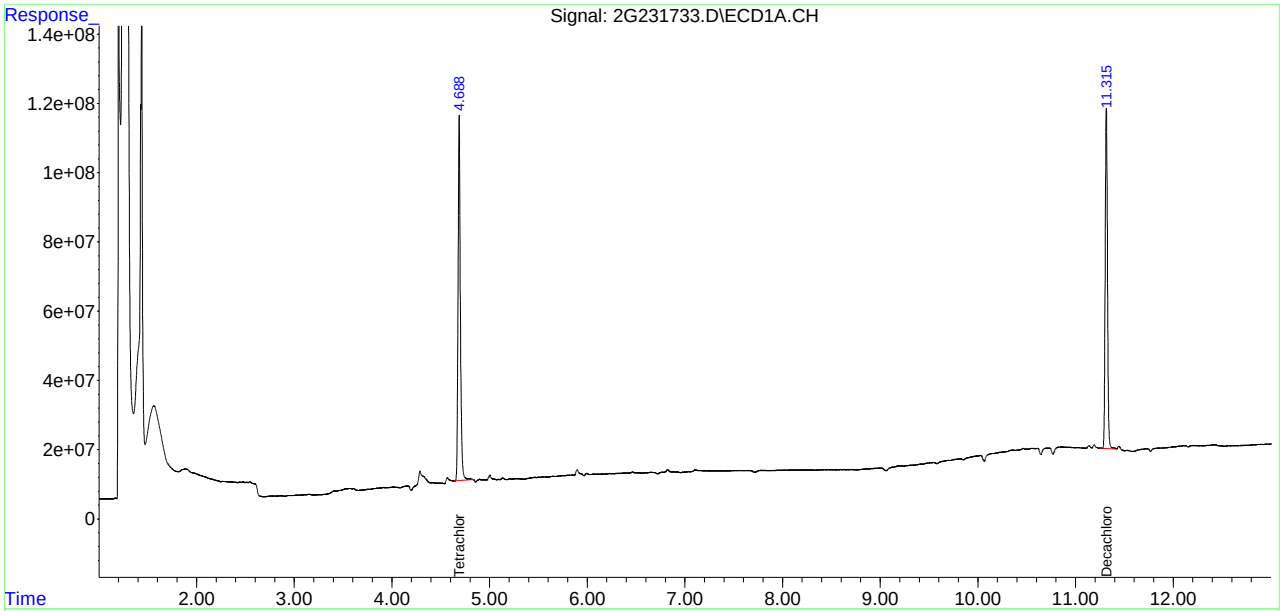
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

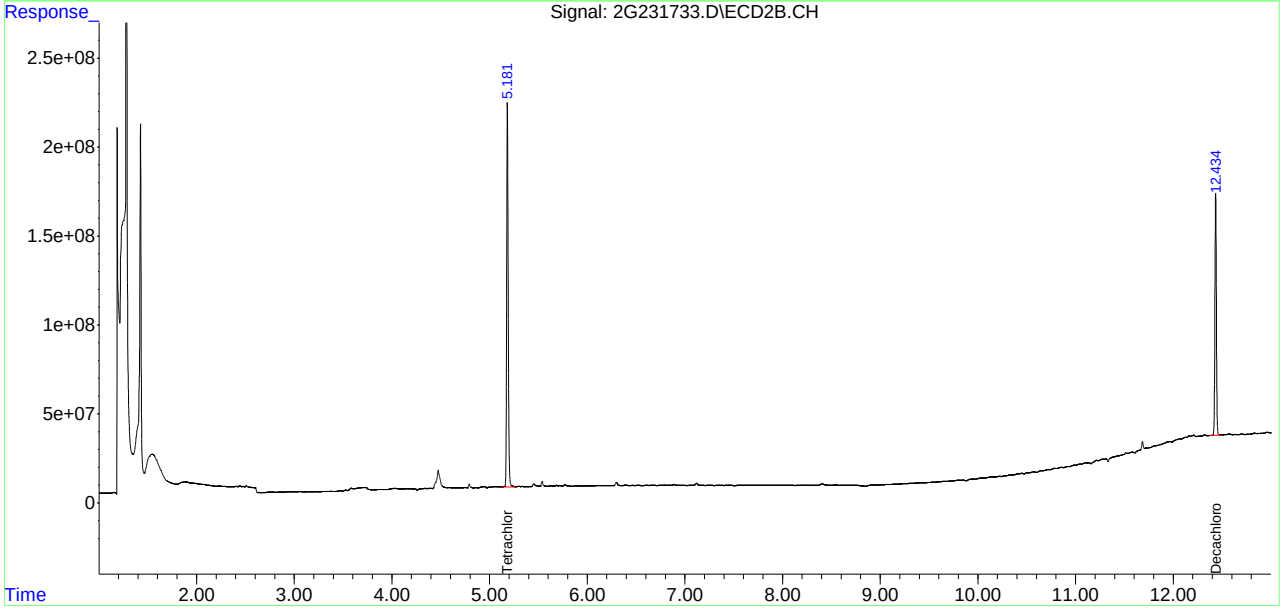
Quantitation Report (QT Reviewed)

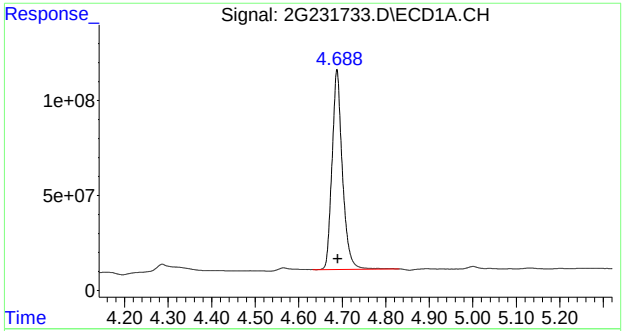
Data Path : C:\msdchem\1\data\maryannl\2G6085\
Data File : 2G231733.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09-May-24, 04:51:01
Operator : christp
Sample : op54453-mb1 m
Misc : op54453,G2G6085,5.0,,,10,1
ALS Vial : 0 (Sig #1); 49 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 12:46:04 2024
Quant Method : C:\msdchem\1\data\maryannl\2G6085\2PCBLVI6081full.M
Quant Title :
QLast Update : Thu May 09 12:25:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

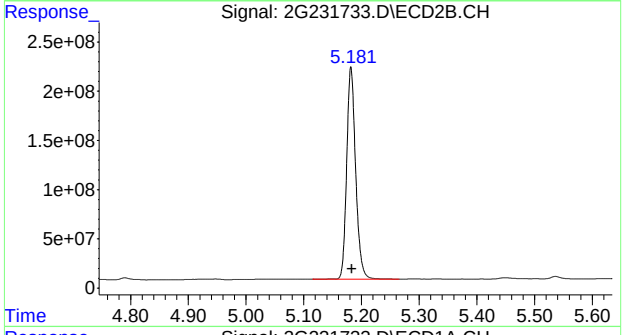






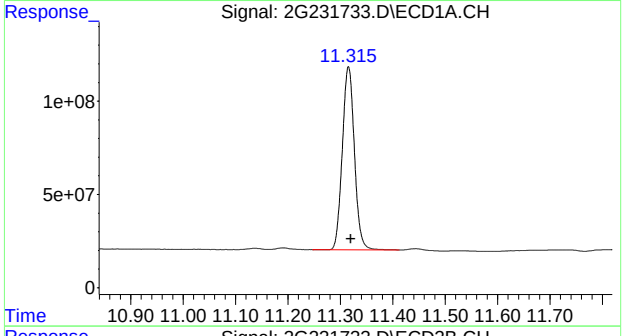
#1 Tetrachloro-m-xylene

R.T.: 4.688 min
Delta R.T.: -0.002 min
Response: 1740508156
Conc: 3.99 ppb



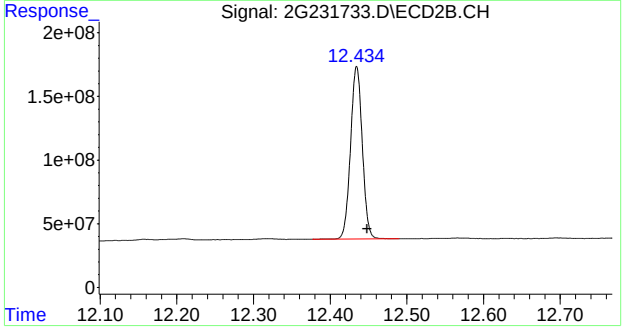
#1 Tetrachloro-m-xylene

R.T.: 5.182 min
Delta R.T.: -0.002 min
Response: 2330636049
Conc: 3.97 ppb



#51 Decachlorobiphenyl

R.T.: 11.315 min
Delta R.T.: -0.004 min
Response: 1576363755
Conc: 3.99 ppb



#51 Decachlorobiphenyl

R.T.: 12.435 min
Delta R.T.: -0.014 min
Response: 1442113832
Conc: 3.78 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco
05/09/24 01:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\marianaf\3G5173\
Data File : 3G141337.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08-May-24, 03:20:09
Operator : christp
Sample : op54400-mb1
Misc : op54400,g3g5173,250,,,2,1
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 08 14:01:15 2024
Quant Method : C:\msdchem\1\data\marianaf\3G5173\3PCB5160.M
Quant Title :
QLast Update : Tue May 07 06:14:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.469	4.079	103.6E6	212.5E6	13.116m	11.701
	Spiked Amount	40.000		Recovery	=	32.79%	29.25%
51) S	Decachlor...	10.972	12.591	73924369	150.7E6	11.108m	10.292m
	Spiked Amount	40.000		Recovery	=	27.77%	25.73%
	Target Compounds						

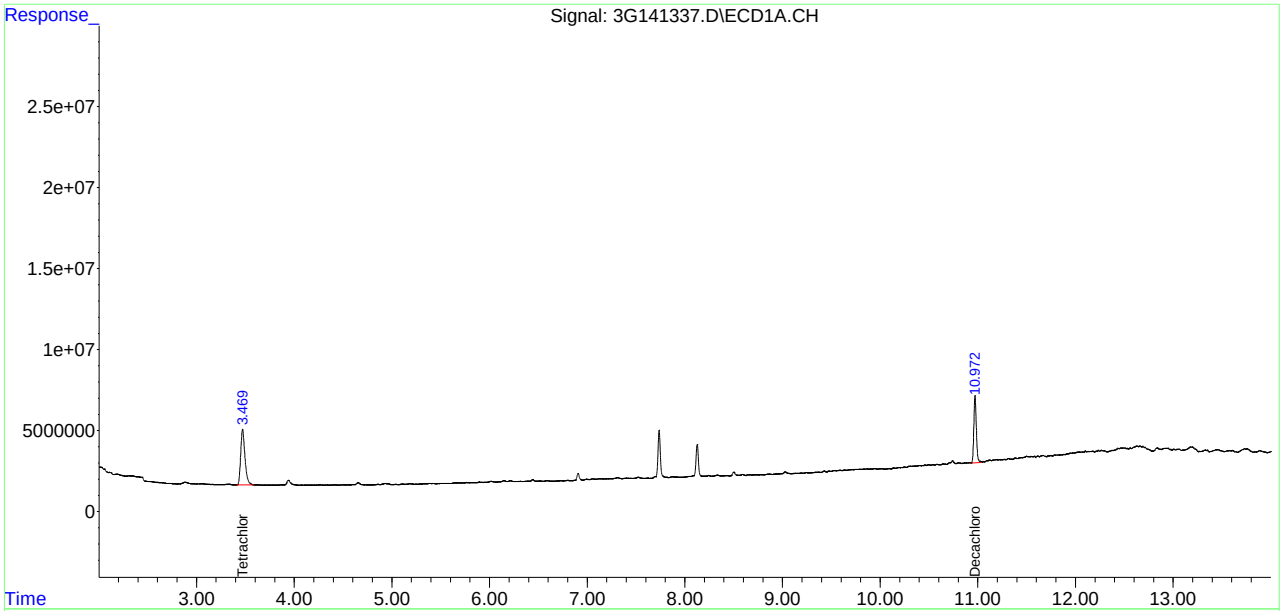
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

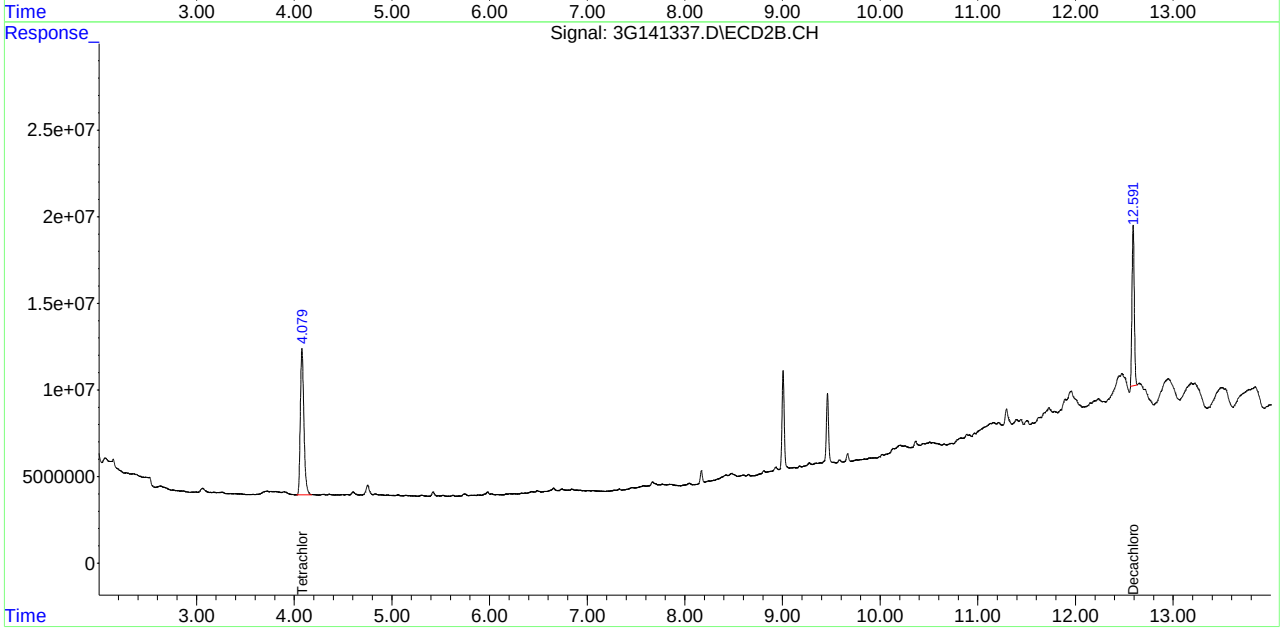
Quantitation Report (QT Reviewed)

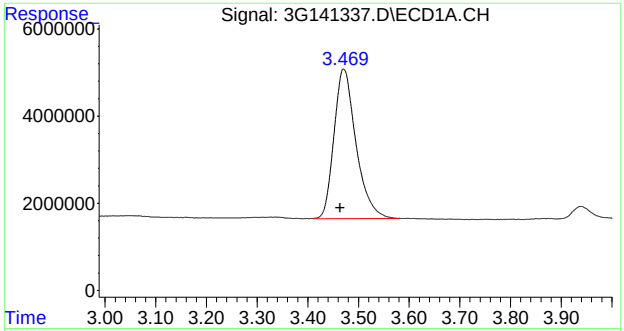
Data Path : C:\msdchem\1\data\marianaf\3G5173\
Data File : 3G141337.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 08-May-24, 03:20:09
Operator : christp
Sample : op54400-mb1
Misc : op54400,g3g5173,250,,,2,1
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 08 14:01:15 2024
Quant Method : C:\msdchem\1\data\marianaf\3G5173\3PCB5160.M
Quant Title :
QLast Update : Tue May 07 06:14:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

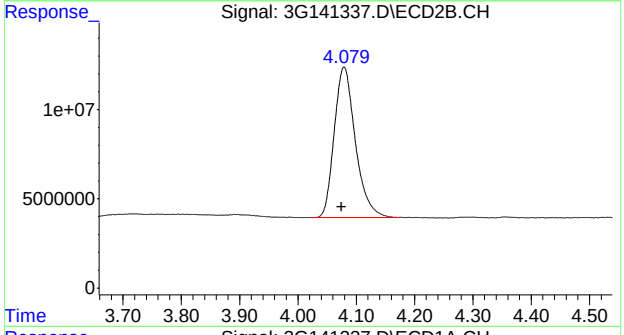






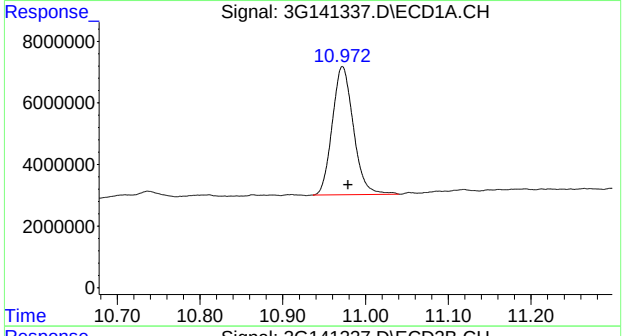
#1 Tetrachloro-m-xylene

R.T.: 3.469 min
Delta R.T.: 0.005 min
Response: 103621266
Conc: 13.12 ppb m



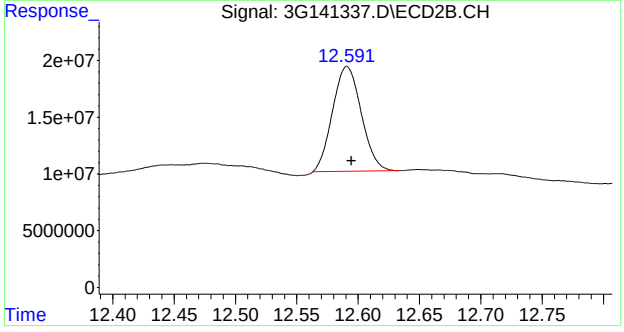
#1 Tetrachloro-m-xylene

R.T.: 4.079 min
Delta R.T.: 0.004 min
Response: 212506924
Conc: 11.70 ppb



#51 Decachlorobiphenyl

R.T.: 10.972 min
Delta R.T.: -0.007 min
Response: 73924369
Conc: 11.11 ppb m



#51 Decachlorobiphenyl

R.T.: 12.591 min
Delta R.T.: -0.004 min
Response: 150691424
Conc: 10.29 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/09/24 19:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56337.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 1:20 am
Operator : christp
Sample : op54452-mb1 m
Misc : op54452,g8g2470,5.0,,,10,1
ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 13:26:01 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.461	4.906	679.3E6	1069.4E6	5.000m	5.000m
27)	I 1-bromo-2...	4.461	4.906	679.9E6	1070.0E6	5.000m	5.000m
33)	I 1-bromo-2...	4.461	4.906	679.0E6	1070.1E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.071	5.729	551.3E6	1236.5E6	3.894m	3.929m
	Spiked Amount 40.000	Range 30 - 150		Recovery =		9.74%#	9.82%#
26)	SA Decachlor...	12.051	14.186	538.8E6	565.1E6	3.528m	3.791m
	Spiked Amount 40.000			Recovery =		8.82%	9.48%
	Target Compounds						
7)	B beta-BHC	5.913	6.886	4180993	8017528	0.045m	0.044m
8)	B delta-BHC	6.077	7.262	11443189	18848779	0.067m	0.057m
22)	B Endosulfa...	9.866	11.434	6486428	10312099	0.048m	0.040
	SemiQuant Compounds - Not Calibrated on this Instrument						

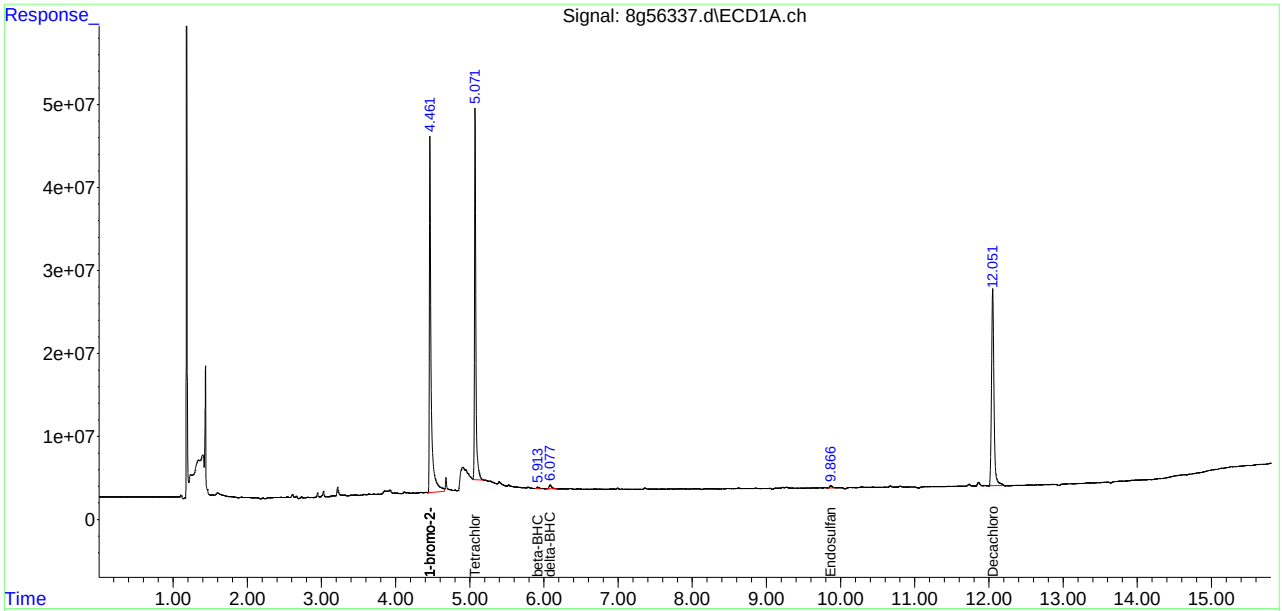
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

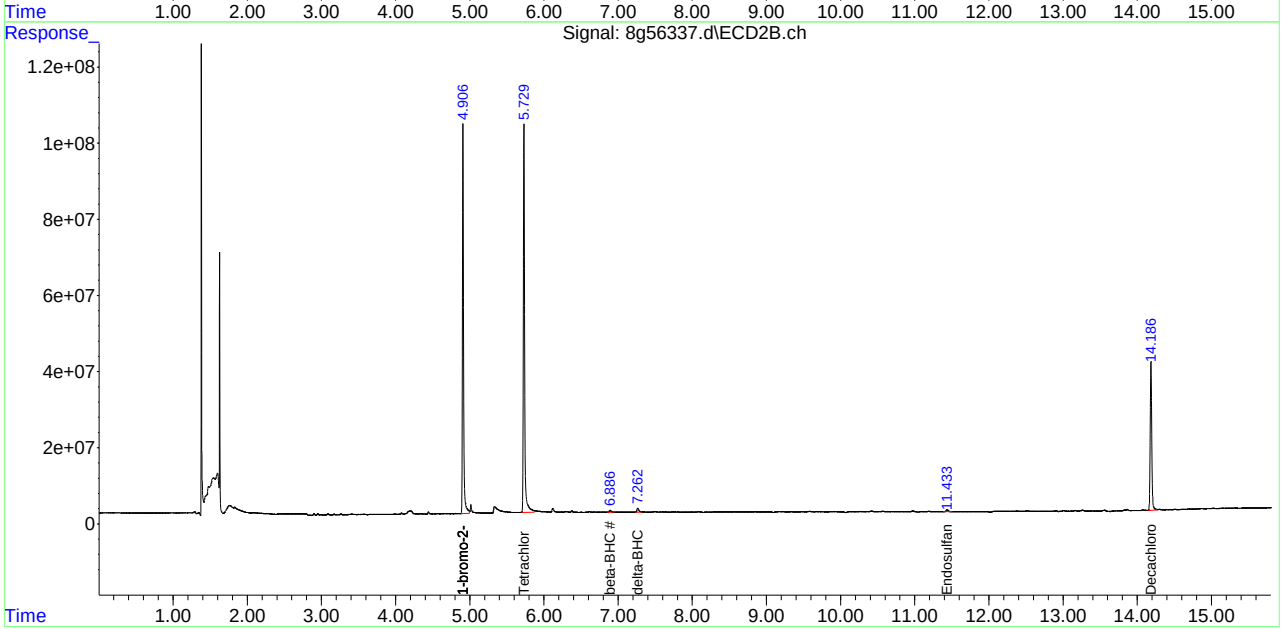
Quantitation Report (QT Reviewed)

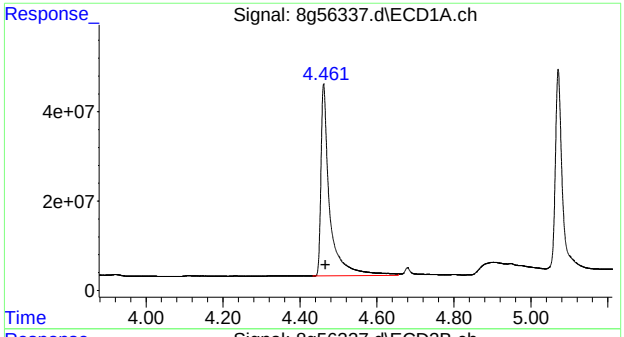
Data Path : C:\msdchem\1\data\nazaryne\G8G2470\
Data File : 8g56337.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 May 2024 1:20 am
Operator : christp
Sample : op54452-mb1 m
Misc : op54452,g8g2470,5.0,,,10,1
ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 13:26:01 2024
Quant Method : C:\msdchem\1\data\nazaryne\G8G2470\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu May 09 12:16:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

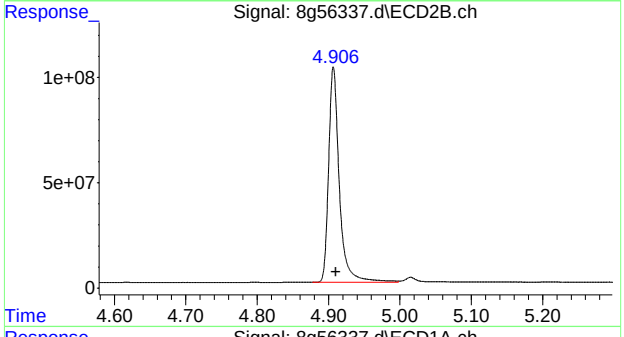






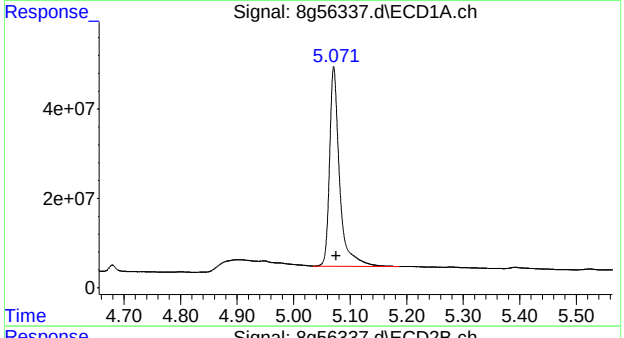
#1 1-bromo-2-nitrobenzene

R.T.: 4.461 min
Delta R.T.: -0.005 min
Response: 679299502
Conc: 5.00 PPB m



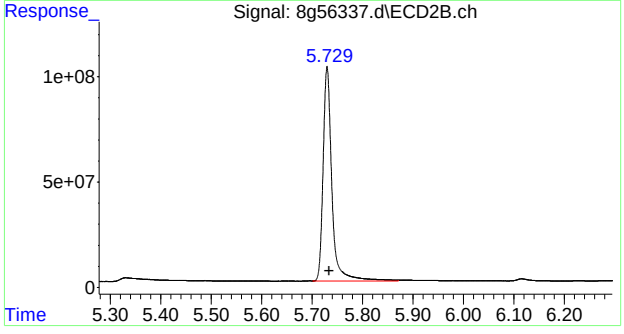
#1 1-bromo-2-nitrobenzene

R.T.: 4.906 min
Delta R.T.: -0.004 min
Response: 1069446516
Conc: 5.00 PPB m



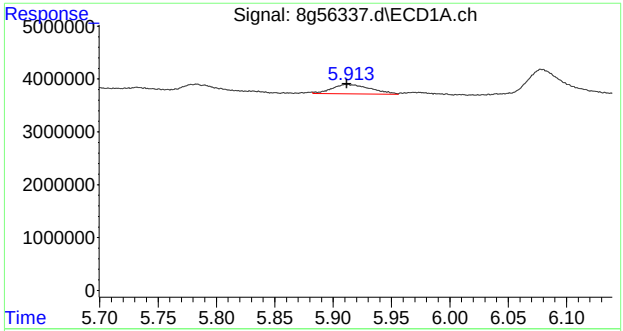
#2 Tetrachloro-m-xylene

R.T.: 5.071 min
Delta R.T.: -0.004 min
Response: 551340518
Conc: 3.89 PPB m



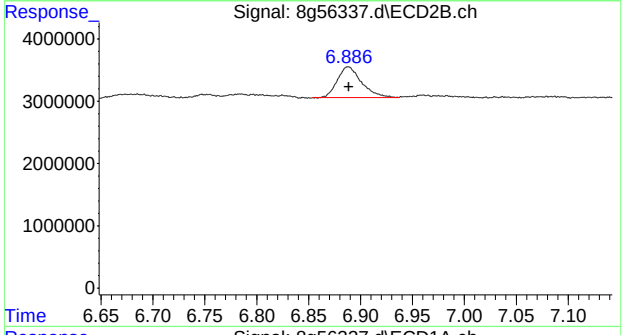
#2 Tetrachloro-m-xylene

R.T.: 5.729 min
Delta R.T.: -0.004 min
Response: 1236464341
Conc: 3.93 PPB m



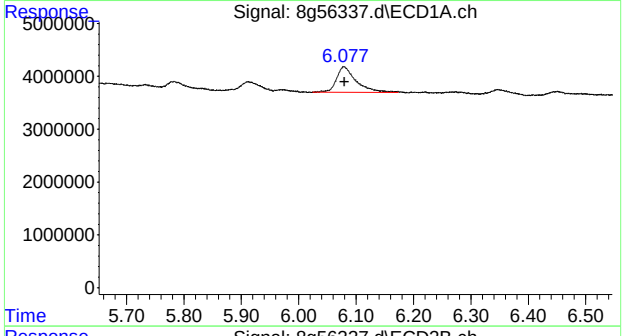
#7 beta-BHC

R.T.: 5.913 min
Delta R.T.: 0.002 min
Response: 4180993
Conc: 0.05 PPB m



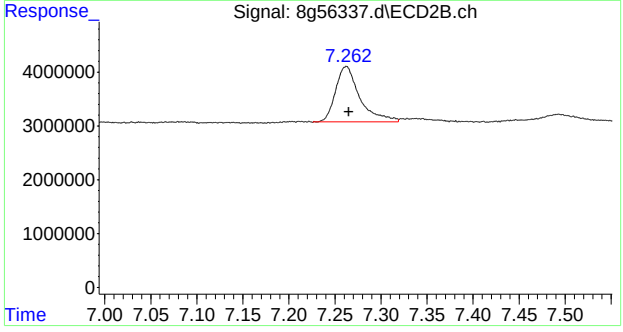
#7 beta-BHC

R.T.: 6.886 min
Delta R.T.: -0.002 min
Response: 8017528
Conc: 0.04 PPB m



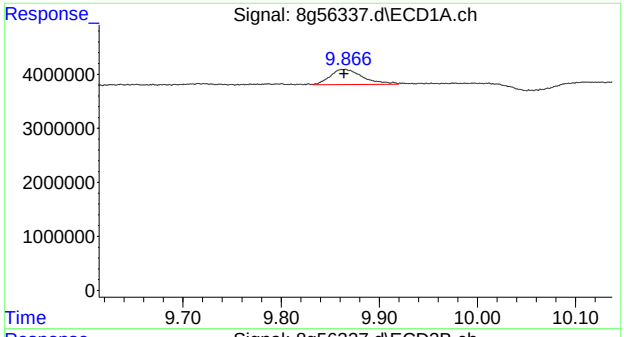
#8 delta-BHC

R.T.: 6.077 min
Delta R.T.: -0.002 min
Response: 11443189
Conc: 0.07 PPB m



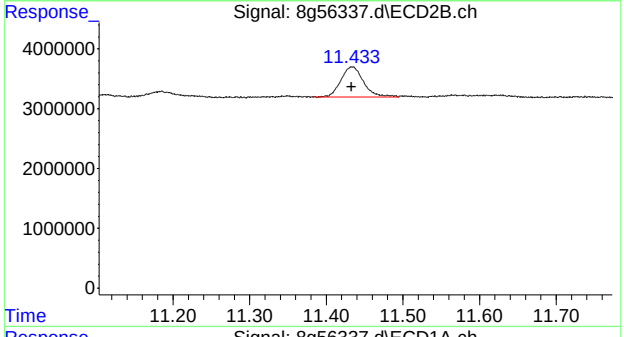
#8 delta-BHC

R.T.: 7.262 min
Delta R.T.: -0.003 min
Response: 18848779
Conc: 0.06 PPB m



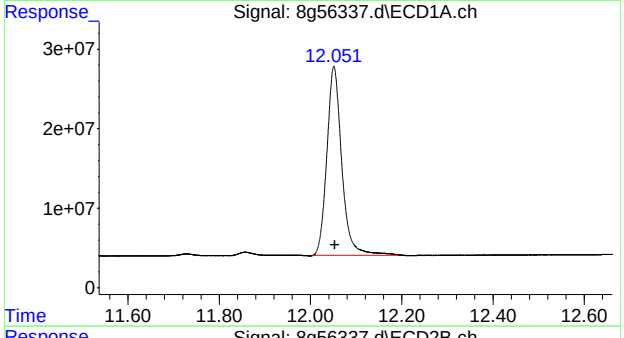
#22 Endosulfan Sulfate

R.T.: 9.866 min
Delta R.T.: 0.002 min
Response: 6486428
Conc: 0.05 PPB m



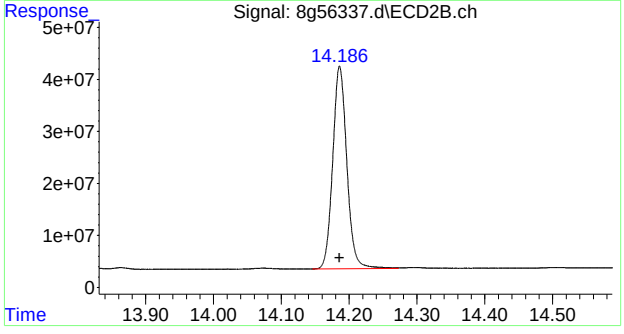
#22 Endosulfan Sulfate

R.T.: 11.434 min
Delta R.T.: 0.001 min
Response: 10312099
Conc: 0.04 PPB



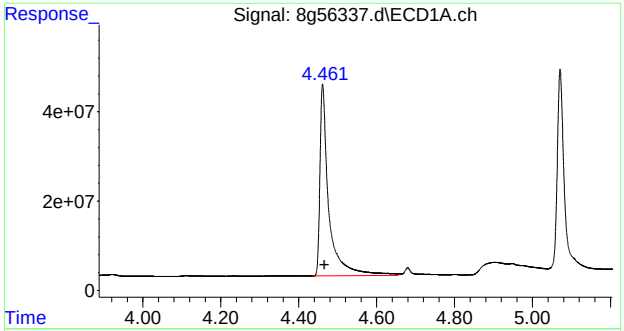
#26 Decachlorobiphenyl

R.T.: 12.051 min
Delta R.T.: -0.002 min
Response: 538845861
Conc: 3.53 PPB m



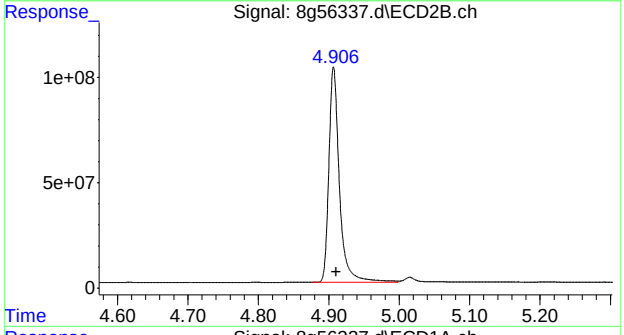
#26 Decachlorobiphenyl

R.T.: 14.186 min
Delta R.T.: 0.000 min
Response: 565087917
Conc: 3.79 PPB m



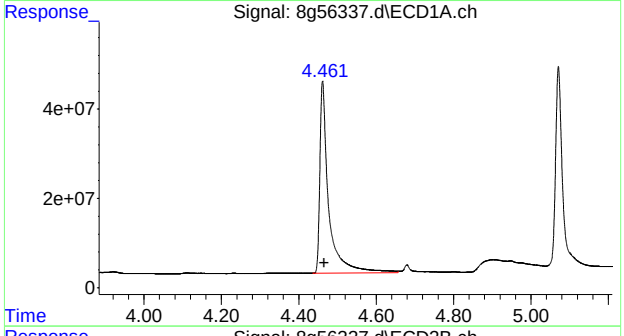
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.461 min
Delta R.T.: -0.005 min
Response: 679866237
Conc: 5.00 PPB m



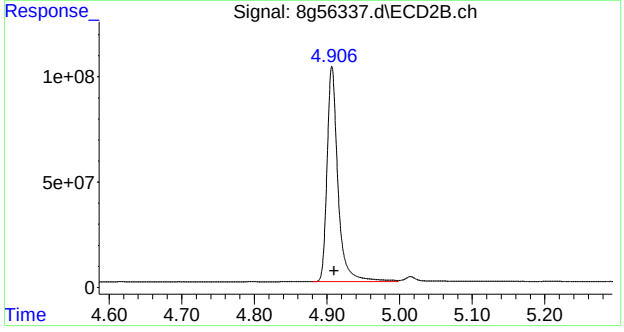
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.906 min
Delta R.T.: -0.004 min
Response: 1070043617
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.461 min
Delta R.T.: -0.005 min
Response: 678985461
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.906 min
Delta R.T.: -0.004 min
Response: 1070052938
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/25/24 12:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140974.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 16:19 pm
Operator : mahalial
Sample : ic5160-1000 (1016/1260)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 05:44:20 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 05:42:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.465	4.077	329.4E6	765.7E6	56.039	91.118 #
	Spiked Amount 40.000			Recovery	= 140.10%	227.79%	
51) S	Decachlor...	10.970	12.591	294.6E6	666.3E6	69.003	91.566 #
	Spiked Amount 40.000			Recovery	= 172.51%	228.92%	
	Target Compounds						
41)	AR1016-A	3.882	4.756	129.1E6	300.7E6	1352.527	2250.327 #
42)	AR1016-B	4.324	5.325	253.2E6	599.4E6	1414.031	2220.906 #
43)	AR1016-C	4.926	5.979	538.4E6	1360.5E6	1327.140m	2191.331m#
44)	AR1016-D	5.098	6.170	227.2E6	532.8E6	1367.129	2260.310 #
45)	AR1016-E	5.639	6.841	248.0E6	427.6E6	1954.211m	2286.670
46)	AR1260-A	7.692	8.934	478.4E6	990.4E6	1372.738	2331.124 #
47)	AR1260-B	8.241	9.586	298.0E6	815.1E6	1421.296	2323.031 #
48)	AR1260-C	8.585	10.023	328.3E6	844.6E6	1383.027	2305.066 #
49)	AR1260-D	9.022	10.367	794.9E6	2042.1E6	1530.805m	2290.926 #
50)	AR1260-E	9.423	10.915	792.8E6	1978.9E6	1389.859m	2205.836m#

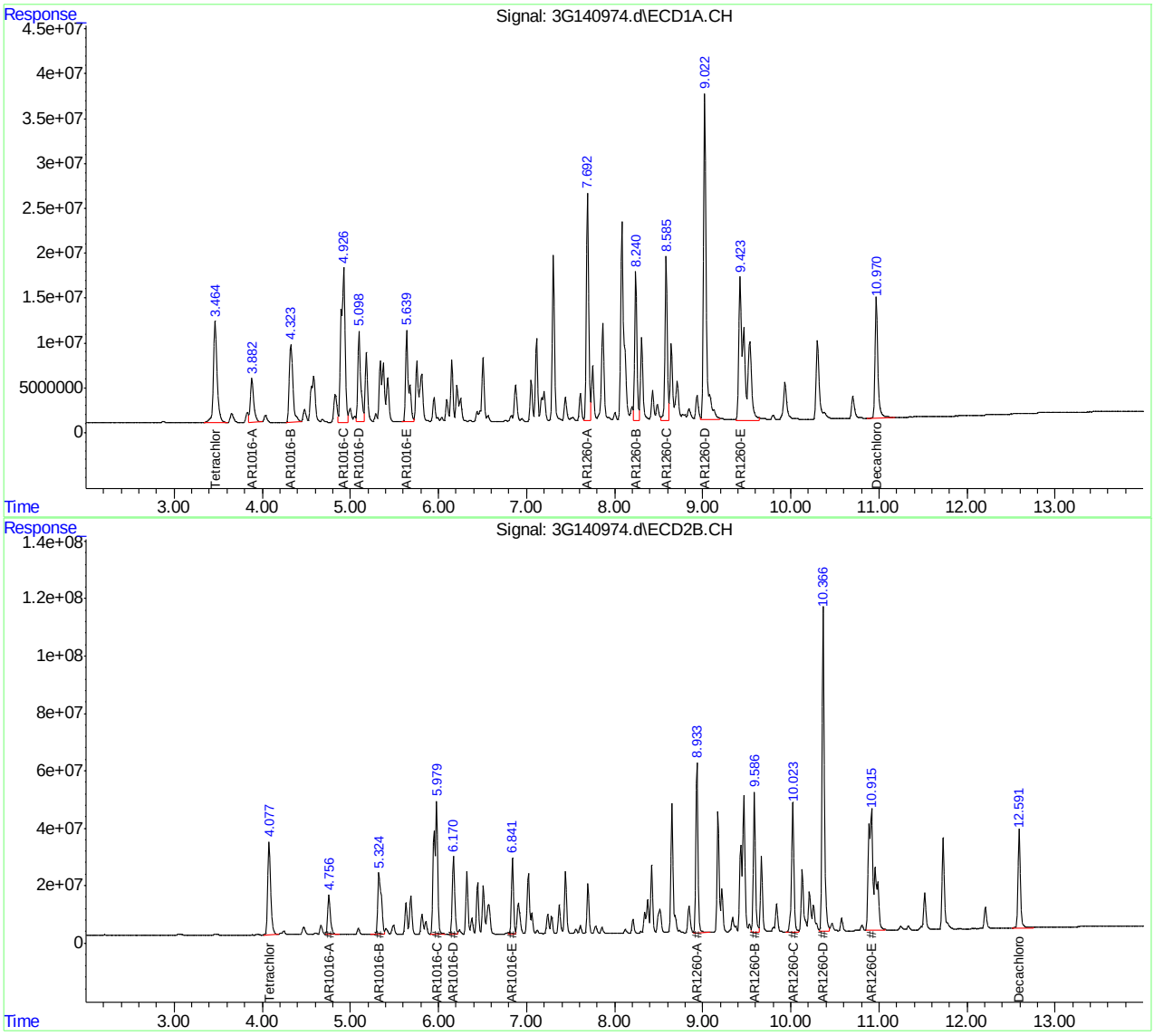
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

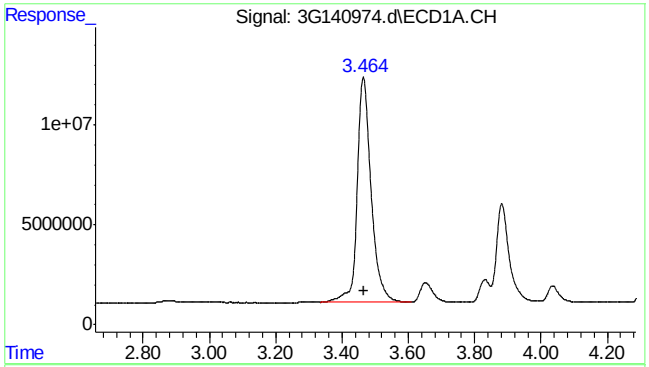
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140974.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 16:19 pm
Operator : mahalial
Sample : ic5160-1000 (1016/1260)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 05:44:20 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 05:42:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

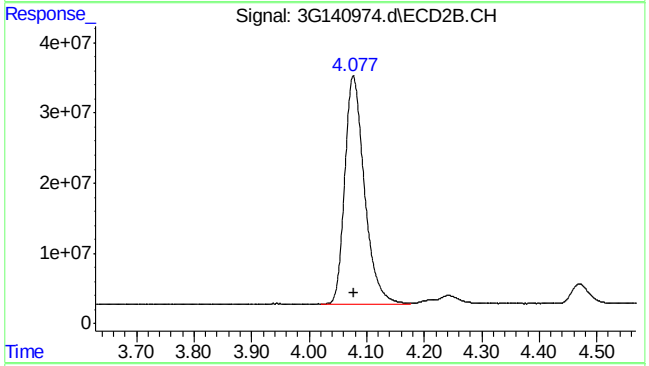
Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





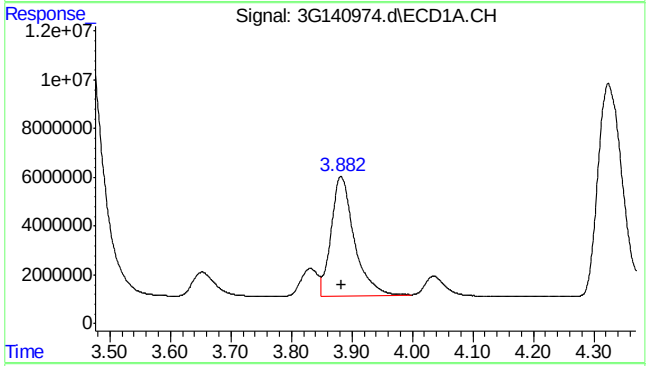
#1 Tetrachloro-m-xylene

R.T.: 3.465 min
Delta R.T.: 0.000 min
Response: 329353673
Conc: 56.04 ppb



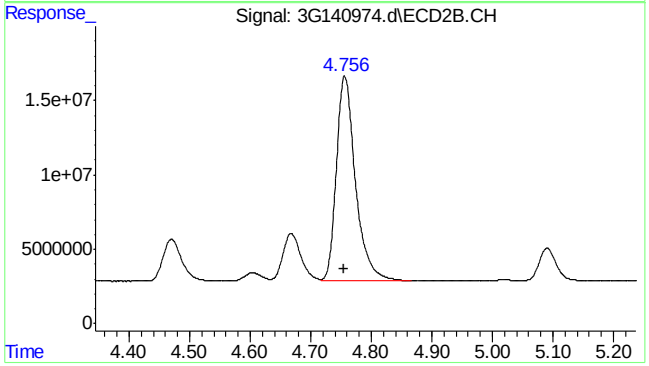
#1 Tetrachloro-m-xylene

R.T.: 4.077 min
Delta R.T.: 0.000 min
Response: 765748136
Conc: 91.12 ppb



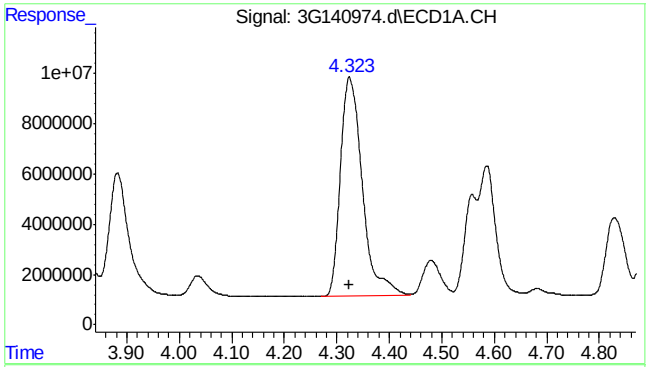
#41 AR1016-A

R.T.: 3.882 min
Delta R.T.: 0.000 min
Response: 129098377
Conc: 1352.53 PPB



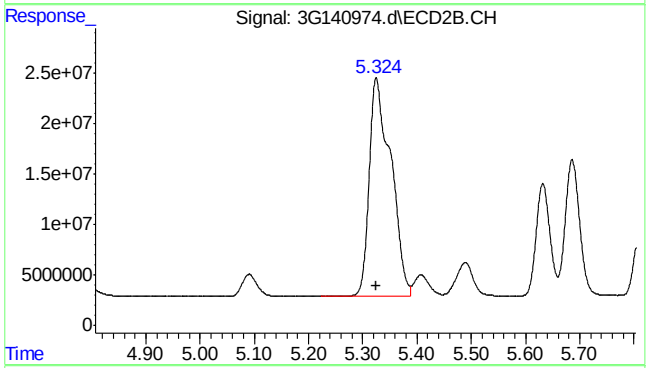
#41 AR1016-A

R.T.: 4.756 min
Delta R.T.: 0.000 min
Response: 300669223
Conc: 2250.33 PPB



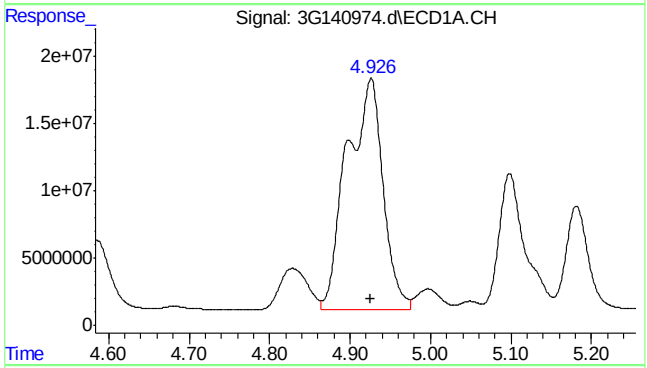
#42 AR1016-B

R.T.: 4.324 min
Delta R.T.: 0.000 min
Response: 253173155
Conc: 1414.03 PPB



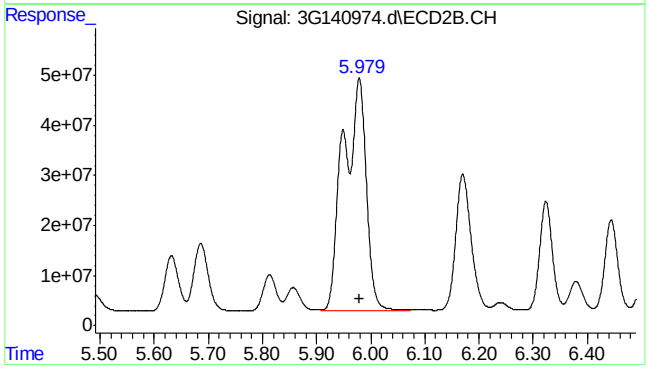
#42 AR1016-B

R.T.: 5.325 min
Delta R.T.: 0.000 min
Response: 599424345
Conc: 2220.91 PPB



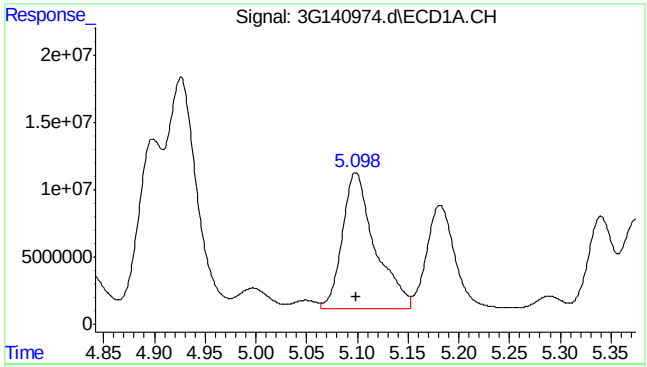
#43 AR1016-C

R.T.: 4.926 min
Delta R.T.: 0.000 min
Response: 538446571
Conc: 1327.14 PPB m



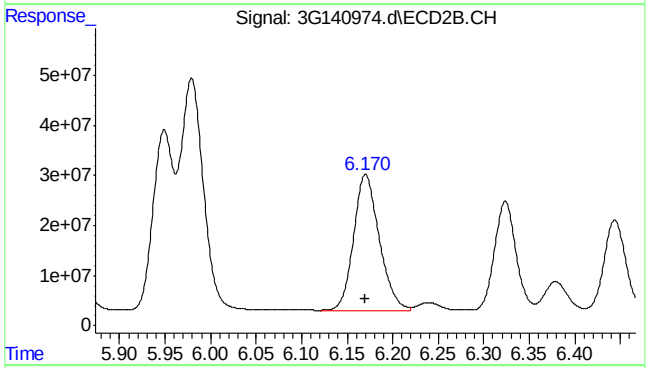
#43 AR1016-C

R.T.: 5.979 min
Delta R.T.: 0.000 min
Response: 1360464593
Conc: 2191.33 PPB m



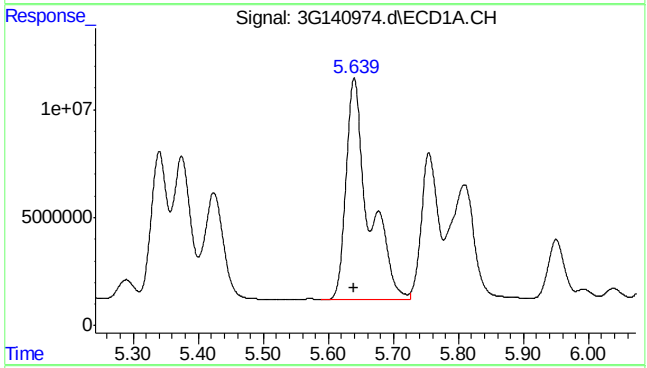
#44 AR1016-D

R.T.: 5.098 min
Delta R.T.: 0.000 min
Response: 227192155
Conc: 1367.13 PPB



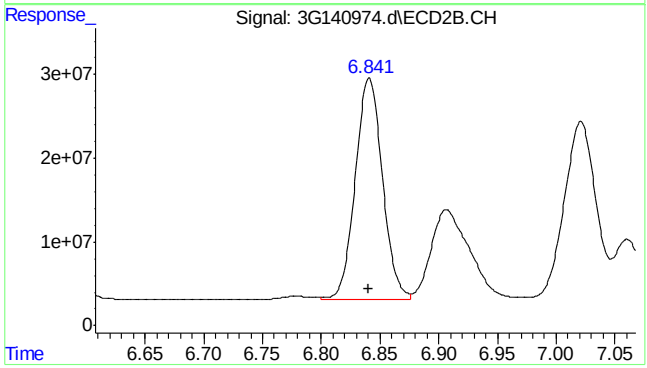
#44 AR1016-D

R.T.: 6.170 min
Delta R.T.: 0.000 min
Response: 532831326
Conc: 2260.31 PPB



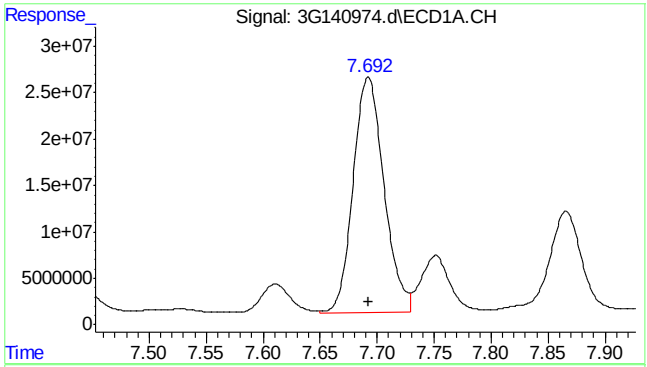
#45 AR1016-E

R.T.: 5.639 min
Delta R.T.: 0.000 min
Response: 248015879
Conc: 1954.21 PPB m



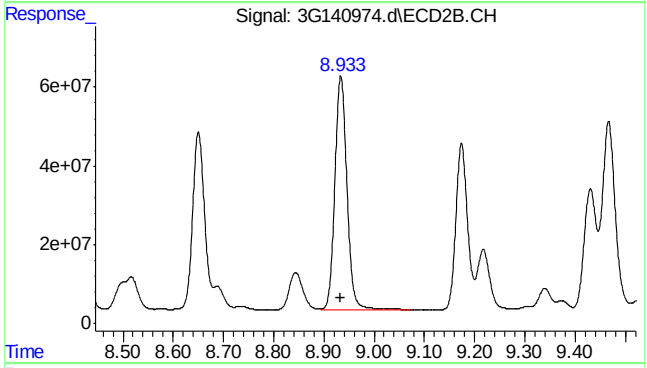
#45 AR1016-E

R.T.: 6.841 min
Delta R.T.: 0.000 min
Response: 427593561
Conc: 2286.67 PPB



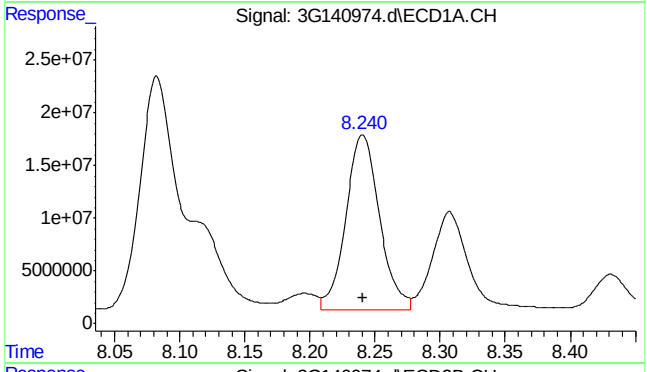
#46 AR1260-A

R.T.: 7.692 min
Delta R.T.: 0.000 min
Response: 478387866
Conc: 1372.74 PPB



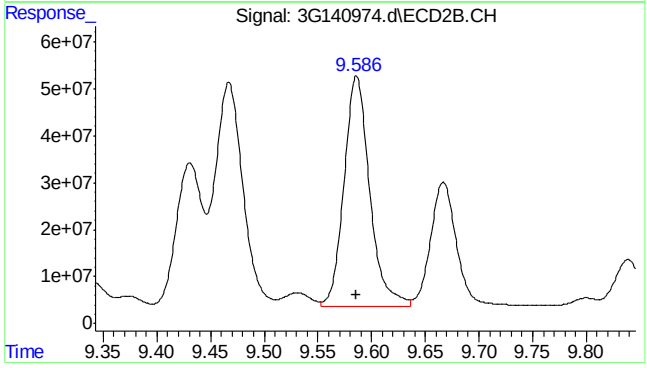
#46 AR1260-A

R.T.: 8.934 min
Delta R.T.: 0.000 min
Response: 990411737
Conc: 2331.12 PPB



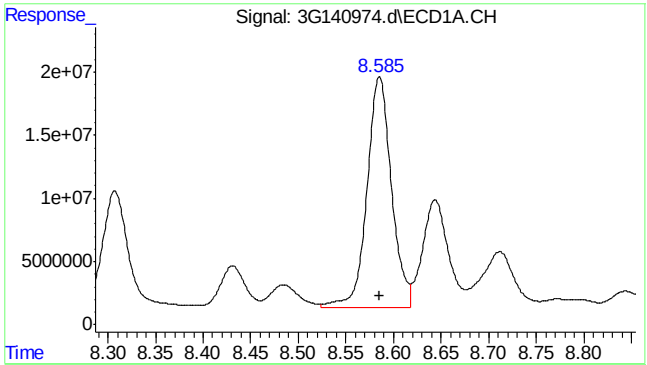
#47 AR1260-B

R.T.: 8.241 min
Delta R.T.: 0.000 min
Response: 298033373
Conc: 1421.30 PPB



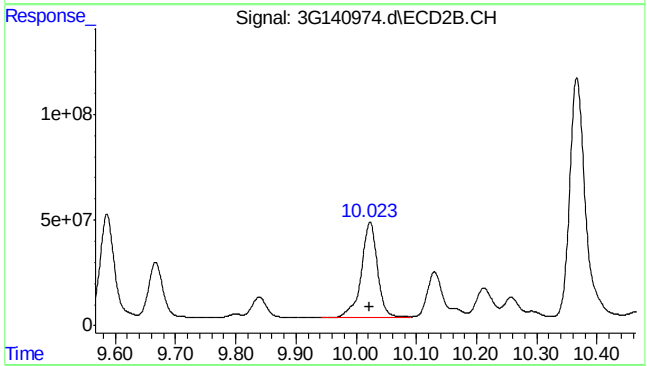
#47 AR1260-B

R.T.: 9.586 min
Delta R.T.: 0.000 min
Response: 815103236
Conc: 2323.03 PPB



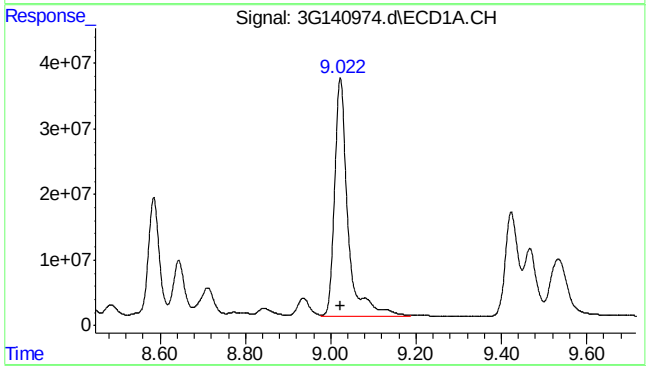
#48 AR1260-C

R.T.: 8.585 min
Delta R.T.: 0.000 min
Response: 328341446
Conc: 1383.03 PPB



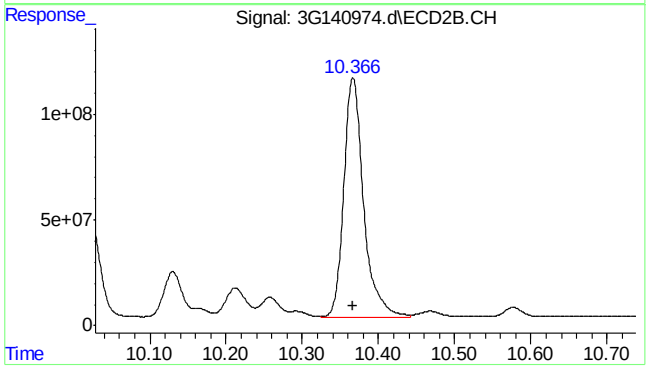
#48 AR1260-C

R.T.: 10.023 min
Delta R.T.: 0.000 min
Response: 844632854
Conc: 2305.07 PPB



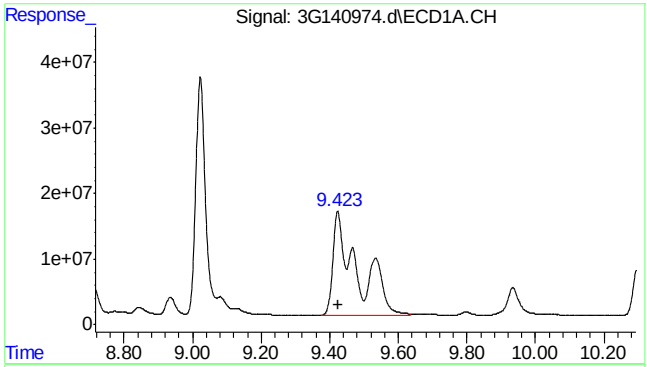
#49 AR1260-D

R.T.: 9.022 min
Delta R.T.: 0.000 min
Response: 794911335
Conc: 1530.80 PPB m



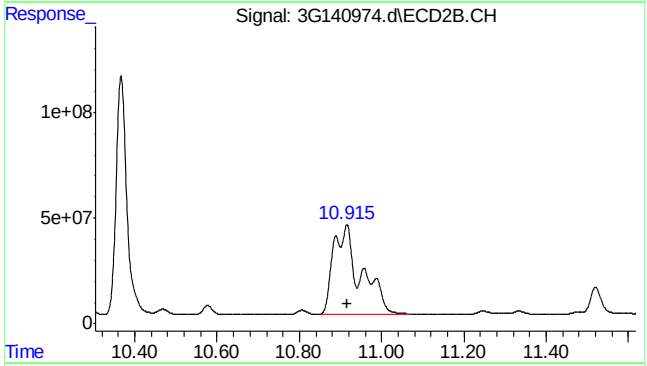
#49 AR1260-D

R.T.: 10.367 min
Delta R.T.: 0.000 min
Response: 2042145681
Conc: 2290.93 PPB



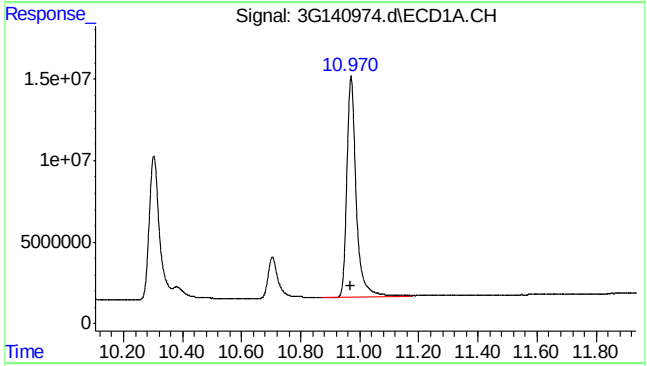
#50 AR1260-E

R.T.: 9.423 min
Delta R.T.: 0.000 min
Response: 792756185
Conc: 1389.86 PPB m



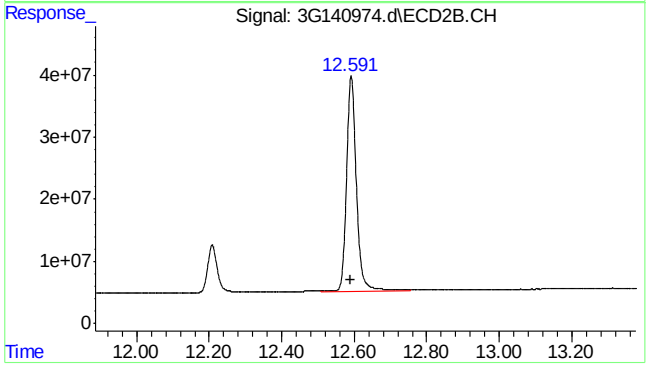
#50 AR1260-E

R.T.: 10.915 min
Delta R.T.: 0.000 min
Response: 1978856629
Conc: 2205.84 PPB m



#51 Decachlorobiphenyl

R.T.: 10.970 min
Delta R.T.: 0.000 min
Response: 294575960
Conc: 69.00 ppb



#51 Decachlorobiphenyl

R.T.: 12.591 min
Delta R.T.: 0.000 min
Response: 666308514
Conc: 91.57 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/25/24 12:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140980.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 17:58 pm
Operator : mahalial
Sample : ic5160-1000 (ar1221)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:14:18 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:13:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.464	4.077	339.9E6	740.1E6	57.837	88.063 #
	Spiked Amount 40.000			Recovery	= 144.59%	220.16%	
51) S	Decachlor...	10.973	12.594	296.7E6	801.2E6	69.512	110.099 #
	Spiked Amount 40.000			Recovery	= 173.78%	275.25%	
	Target Compounds						
2)	AR1221-A	2.872	3.469	58562656	109.5E6	1404.413	2102.568 #
3)	AR1221-B	3.654	4.470	87294725	205.1E6	1351.945	2236.193 #
4)	AR1221-C	3.882	4.756	203.3E6	461.5E6	1345.992	2127.555 #
5)	AR1221-D	4.326	5.409f	47134559	162.5E6	1248.460m	2191.390m#
6)	AR1221-E	4.927	5.979	48347682	115.6E6	1090.449m	1837.025m#

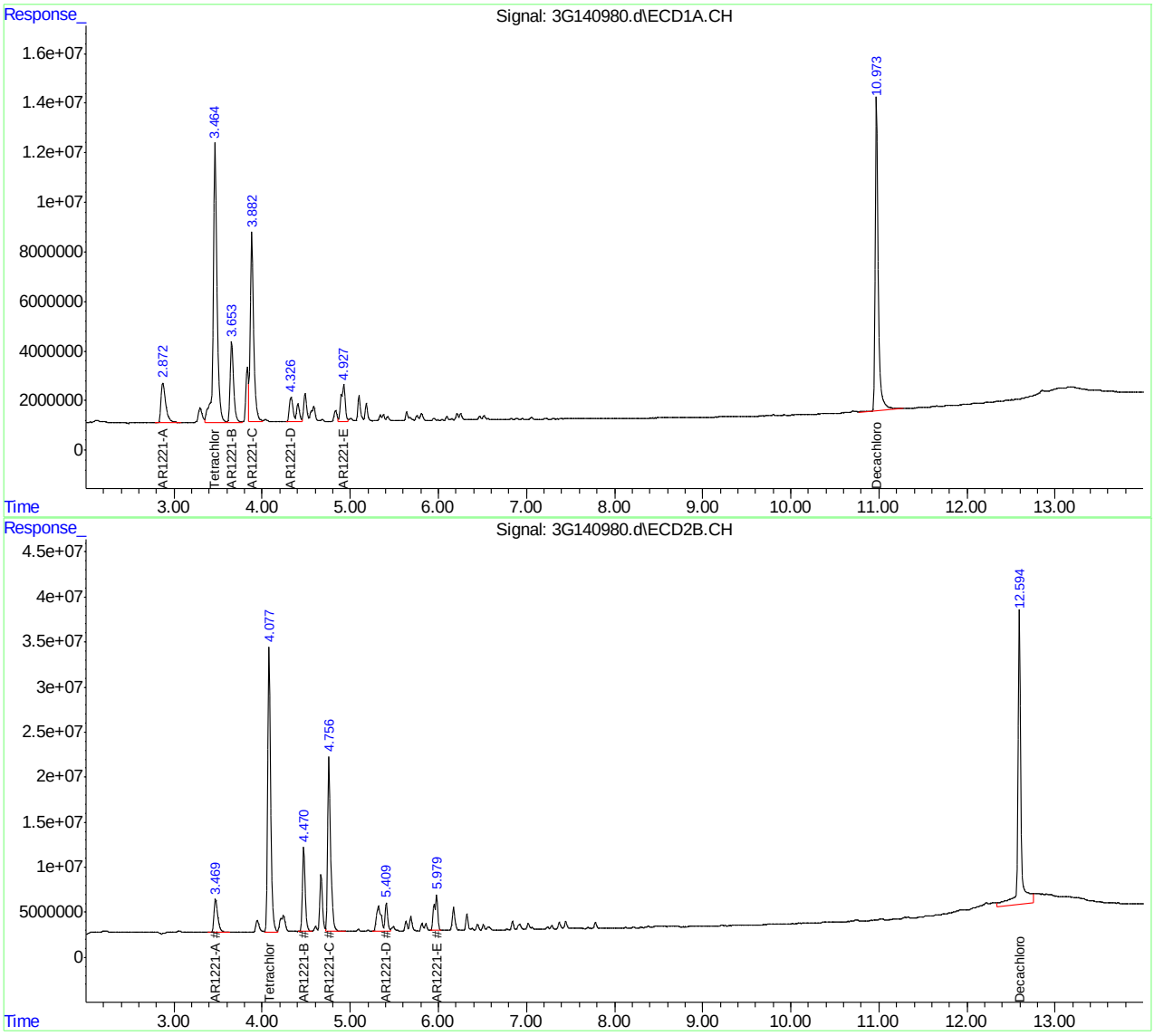
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

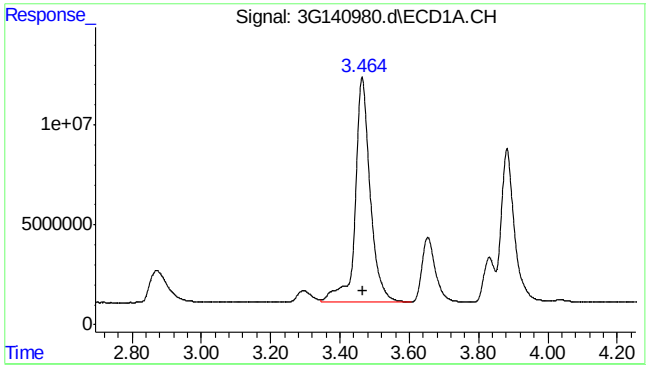
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140980.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 17:58 pm
Operator : mahalial
Sample : ic5160-1000 (ar1221)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:14:18 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:13:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

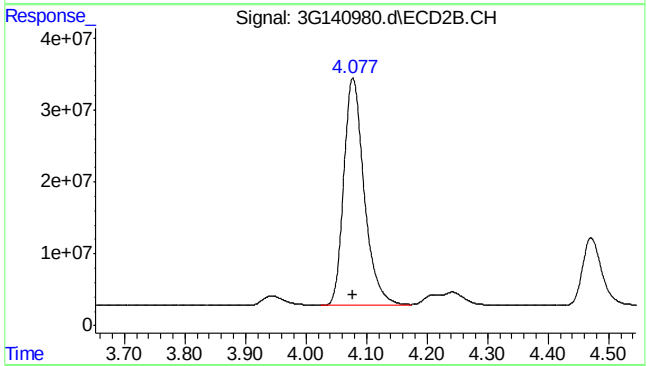
Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





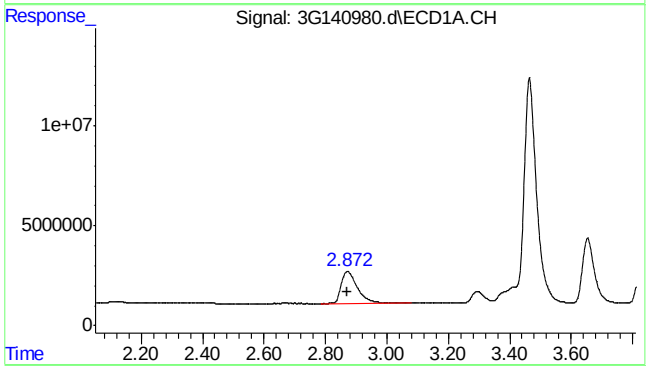
#1 Tetrachloro-m-xylene

R.T.: 3.464 min
Delta R.T.: 0.000 min
Response: 339917923
Conc: 57.84 ppb



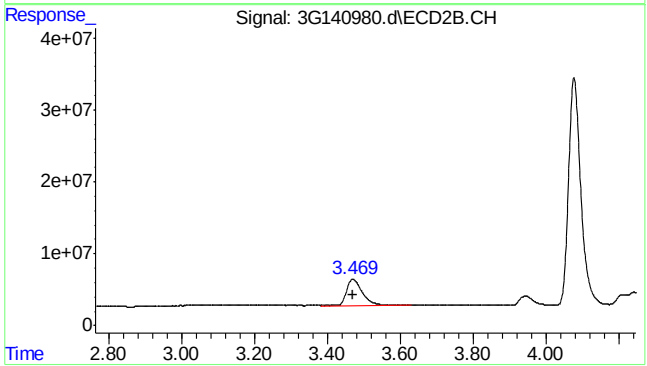
#1 Tetrachloro-m-xylene

R.T.: 4.077 min
Delta R.T.: 0.000 min
Response: 740074952
Conc: 88.06 ppb



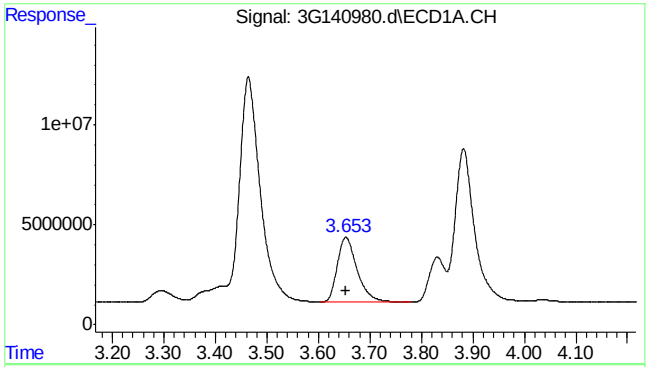
#2 AR1221-A

R.T.: 2.872 min
Delta R.T.: 0.000 min
Response: 58562656
Conc: 1404.41



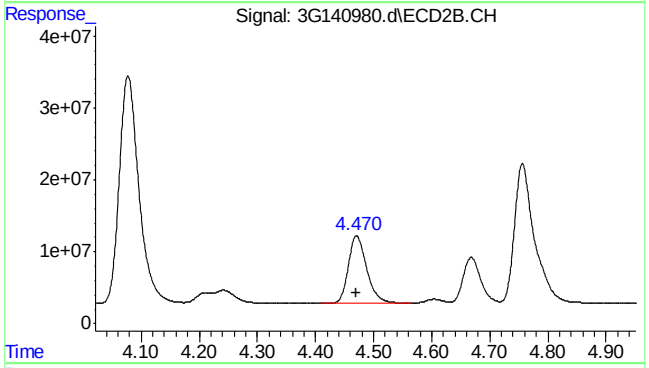
#2 AR1221-A

R.T.: 3.469 min
Delta R.T.: 0.000 min
Response: 109497680
Conc: 2102.57



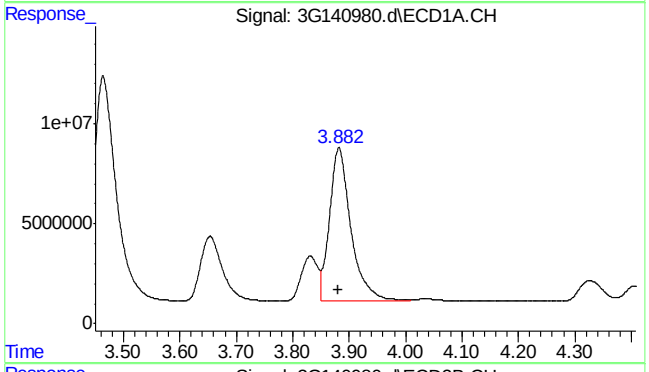
#3 AR1221-B

R.T.: 3.654 min
Delta R.T.: 0.000 min
Response: 87294725
Conc: 1351.95 PPB



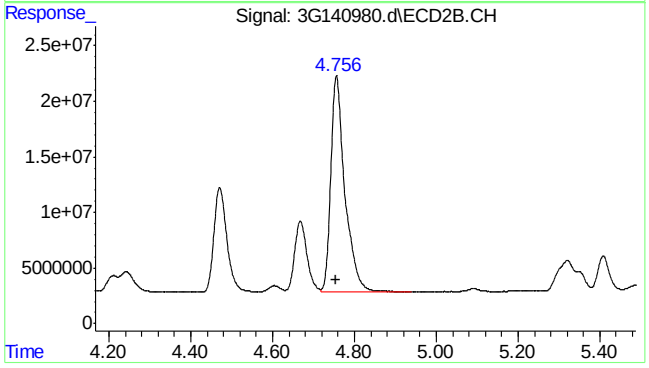
#3 AR1221-B

R.T.: 4.470 min
Delta R.T.: 0.000 min
Response: 205053884
Conc: 2236.19 PPB



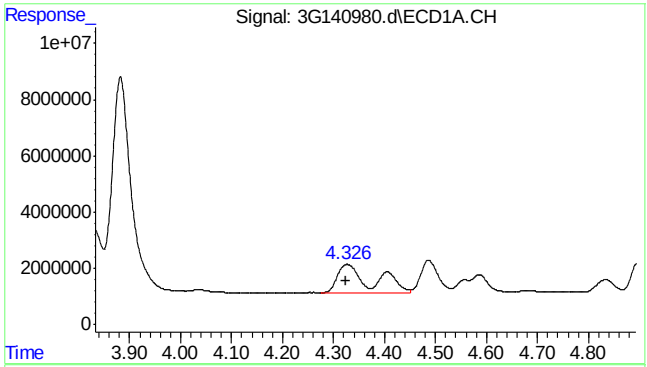
#4 AR1221-C

R.T.: 3.882 min
Delta R.T.: 0.000 min
Response: 203322187
Conc: 1345.99 PPB



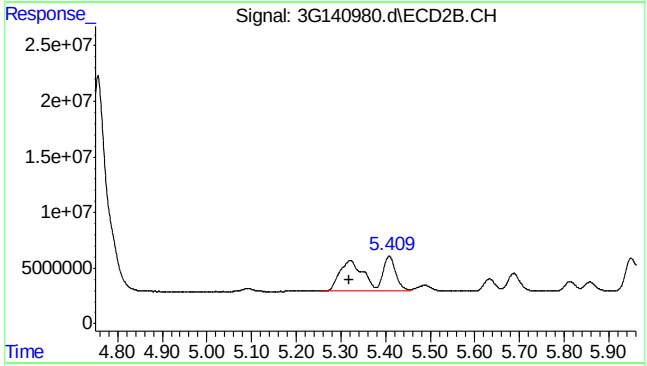
#4 AR1221-C

R.T.: 4.756 min
Delta R.T.: 0.000 min
Response: 461479562
Conc: 2127.55 PPB



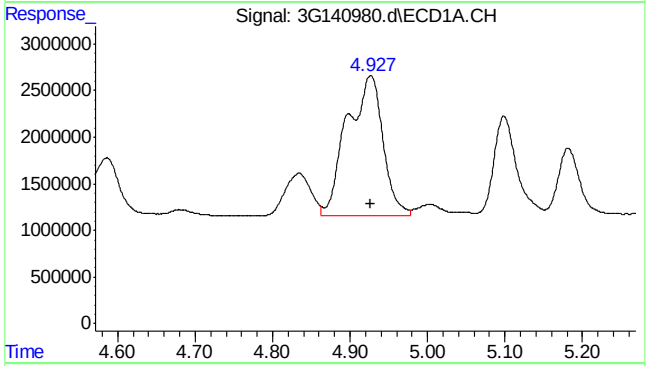
#5 AR1221-D

R.T.: 4.326 min
Delta R.T.: 0.000 min
Response: 47134559
Conc: 1248.46 PPB m



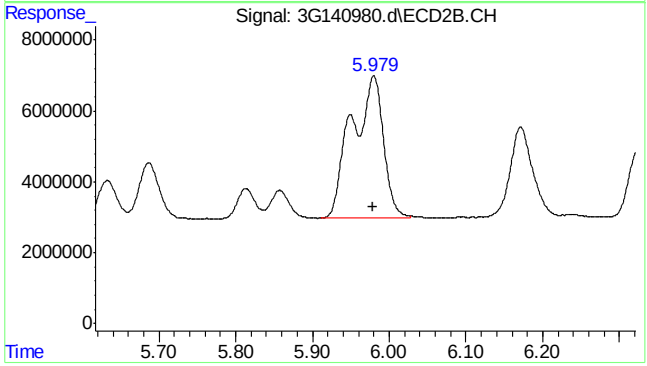
#5 AR1221-D

R.T.: 5.409 min
Delta R.T.: 0.088 min
Response: 162464374
Conc: 2191.39 PPB m



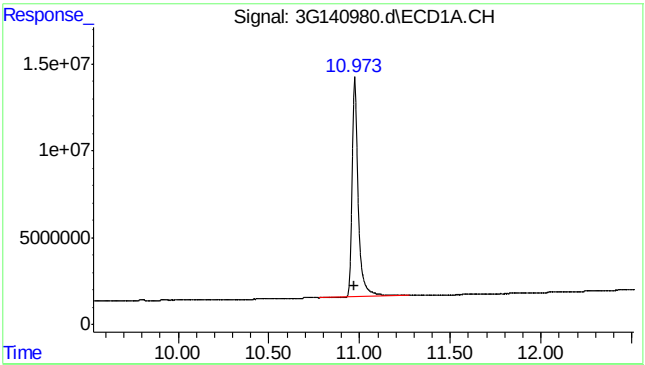
#6 AR1221-E

R.T.: 4.927 min
Delta R.T.: 0.000 min
Response: 48347682
Conc: 1090.45 PPB m



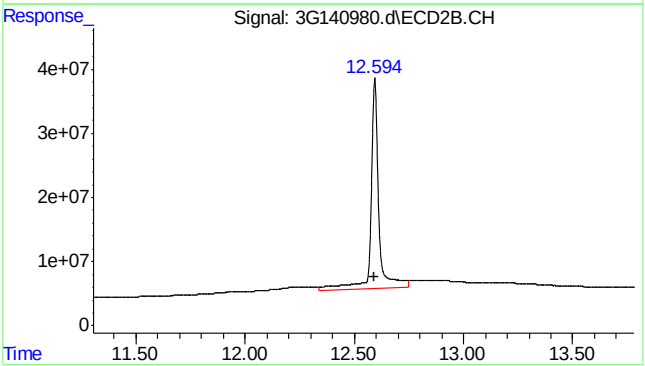
#6 AR1221-E

R.T.: 5.979 min
Delta R.T.: 0.000 min
Response: 115574274
Conc: 1837.02 PPB m



#51 Decachlorobiphenyl

R.T.: 10.973 min
Delta R.T.: 0.003 min
Response: 296747164
Conc: 69.51 ppb



#51 Decachlorobiphenyl

R.T.: 12.594 min
Delta R.T.: 0.004 min
Response: 801168856
Conc: 110.10 ppb

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140981.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 18:15 pm
Operator : mahalial
Sample : ic5160-1000 (ar1254)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:16:45 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:16:01 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
1) S	Tetrachlo...	3.464	4.077	293.5E6	700.8E6	49.944	83.384	#
	Spiked Amount 40.000			Recovery	= 124.86%	208.46%		
51) S	Decachlor...	10.972	12.594	276.9E6	641.6E6	64.867	88.168	#
	Spiked Amount 40.000			Recovery	= 162.17%	220.42%		
	Target Compounds							
24)	AR1254-A	6.153	7.443	225.8E6	600.7E6	1311.839	2036.395	#
25)	AR1254-B	6.507	7.698	312.3E6	673.2E6	1271.508	2066.659	#
26)	AR1254-C	6.887	8.208	254.0E6	561.2E6	1271.385	2103.802	#
27)	AR1254-D	7.054	8.376	435.9E6	1056.8E6	1235.621	2084.133	#
28)	AR1254-E	7.441	8.689	307.2E6	796.1E6	1150.930	2057.670	#
29)	AR1254-F	7.694	9.175	301.9E6	412.7E6	1280.318	1869.872	#
30)	AR1254-G	8.083	9.467	437.9E6	863.1E6	1192.910	2145.969	#

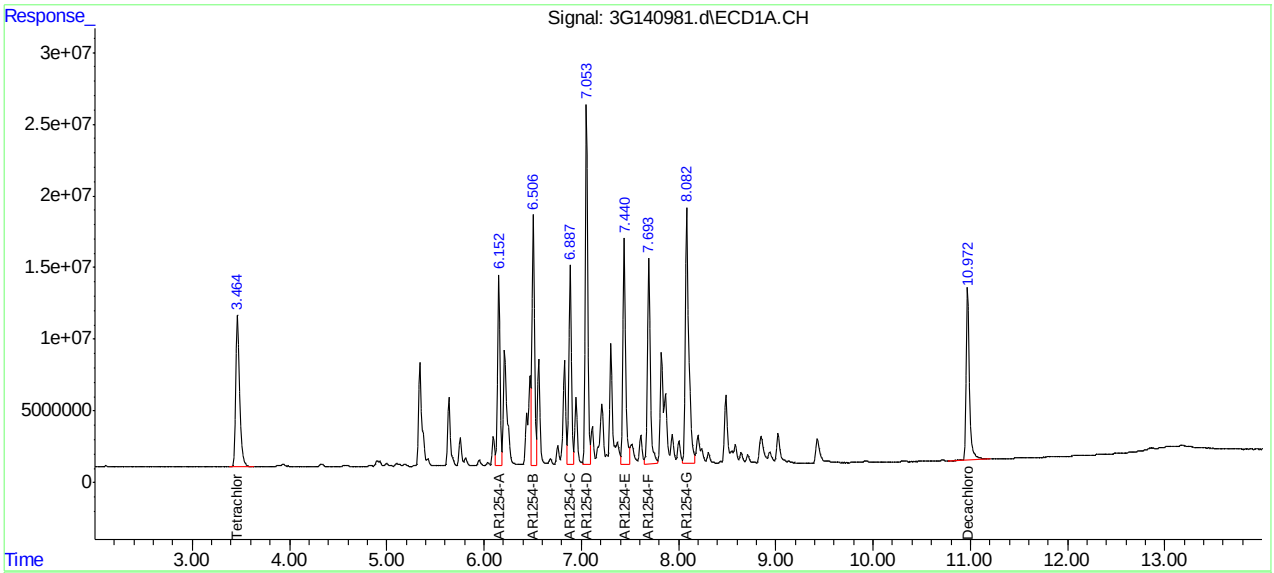
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

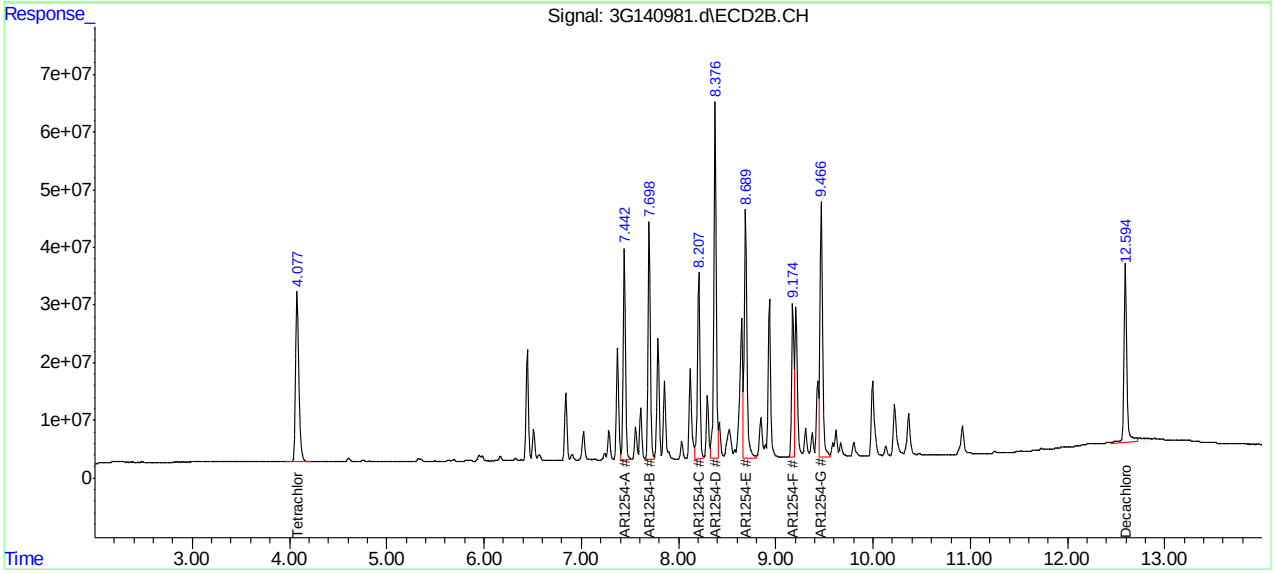
Quantitation Report (QT Reviewed)

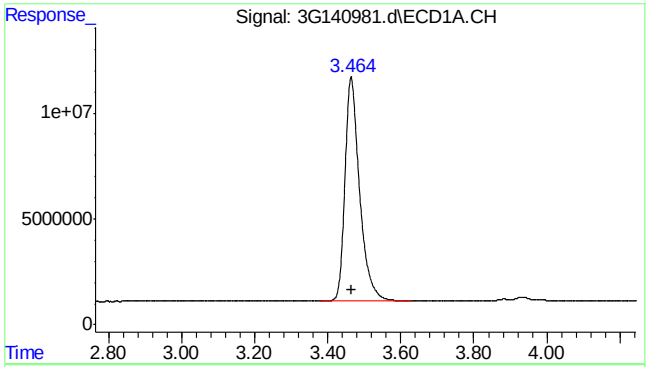
Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140981.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 18:15 pm
Operator : mahalial
Sample : ic5160-1000 (ar1254)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:16:45 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:16:01 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

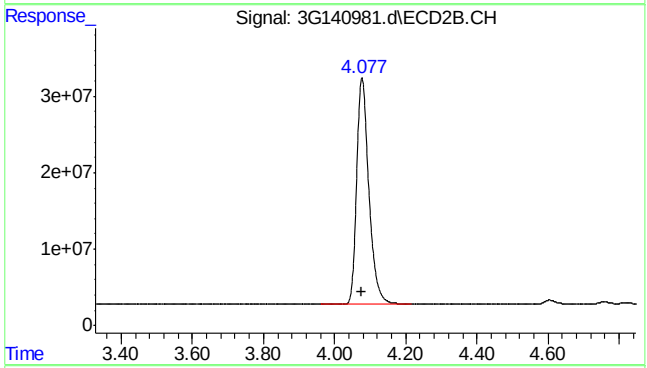






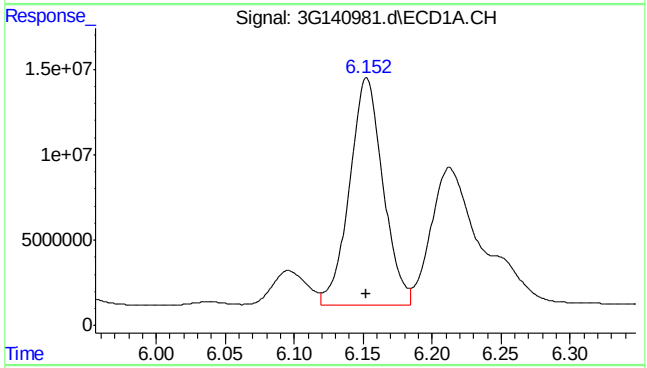
#1 Tetrachloro-m-xylene

R.T.: 3.464 min
Delta R.T.: 0.000 min
Response: 293527944
Conc: 49.94 ppb



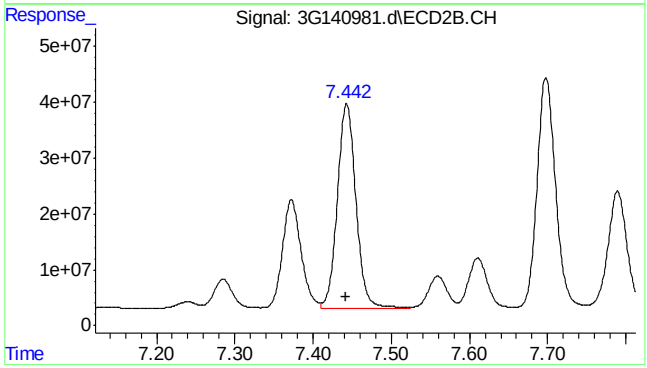
#1 Tetrachloro-m-xylene

R.T.: 4.077 min
Delta R.T.: 0.000 min
Response: 700758596
Conc: 83.38 ppb



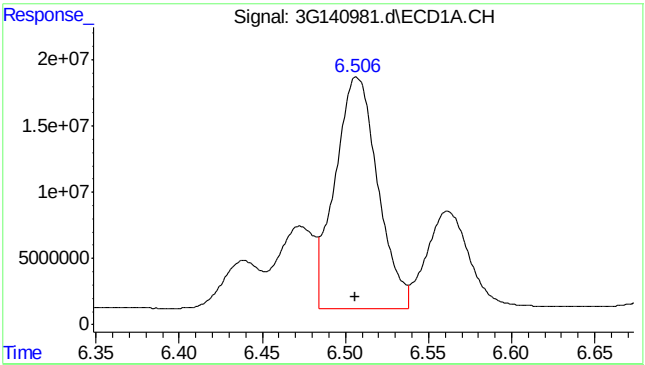
#24 AR1254-A

R.T.: 6.153 min
Delta R.T.: 0.000 min
Response: 225829078
Conc: 1311.84 PPB



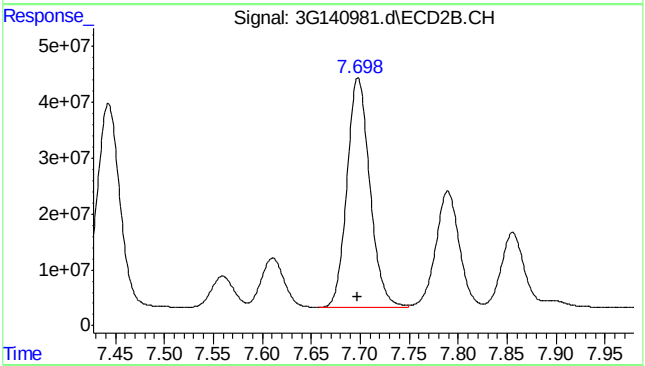
#24 AR1254-A

R.T.: 7.443 min
Delta R.T.: 0.000 min
Response: 600684935
Conc: 2036.39 PPB



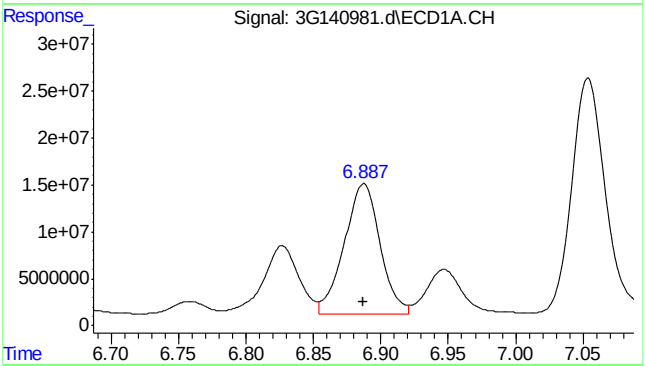
#25 AR1254-B

R.T.: 6.507 min
Delta R.T.: 0.001 min
Response: 312276072
Conc: 1271.51 PPB



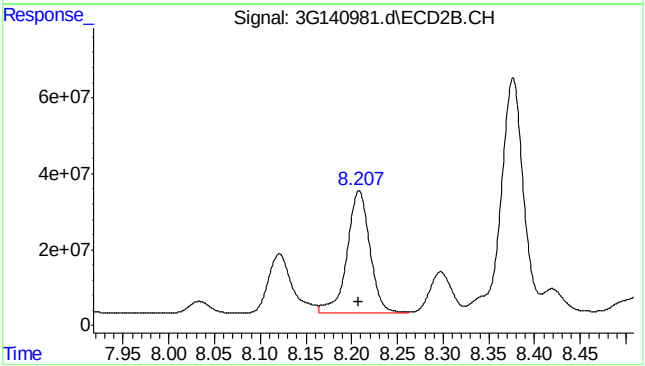
#25 AR1254-B

R.T.: 7.698 min
Delta R.T.: 0.000 min
Response: 673228748
Conc: 2066.66 PPB



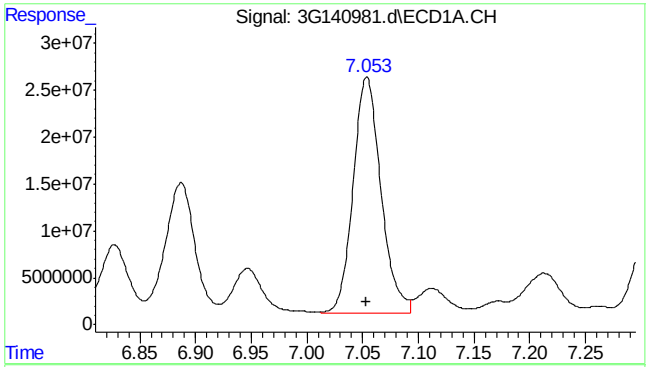
#26 AR1254-C

R.T.: 6.887 min
Delta R.T.: 0.000 min
Response: 253984847
Conc: 1271.38 PPB



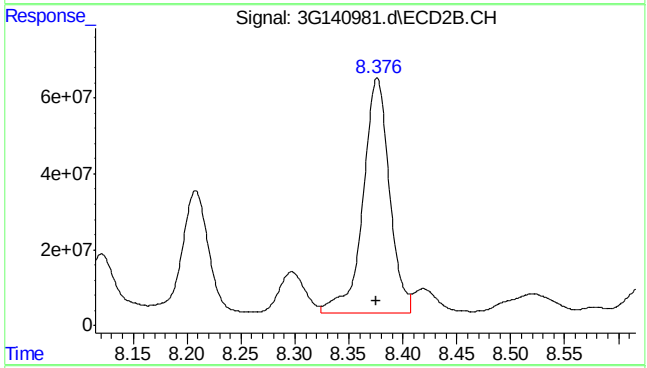
#26 AR1254-C

R.T.: 8.208 min
Delta R.T.: 0.000 min
Response: 561178139
Conc: 2103.80 PPB



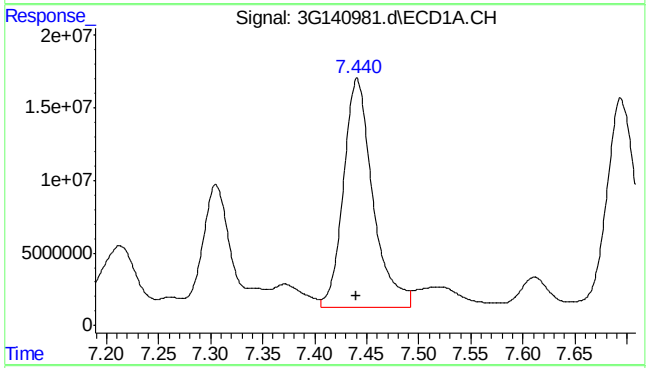
#27 AR1254-D

R.T.: 7.054 min
Delta R.T.: 0.000 min
Response: 435911413
Conc: 1235.62 PPB



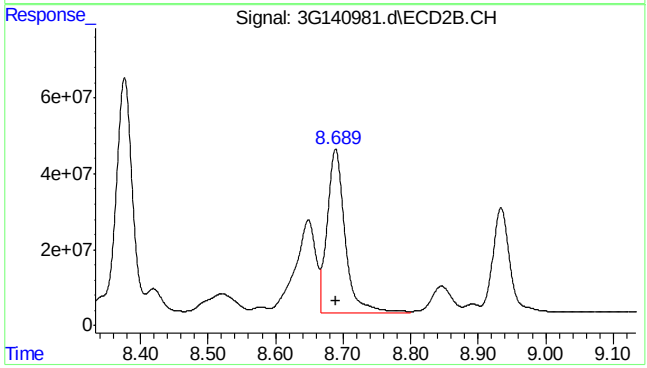
#27 AR1254-D

R.T.: 8.376 min
Delta R.T.: 0.000 min
Response: 1056781804
Conc: 2084.13 PPB



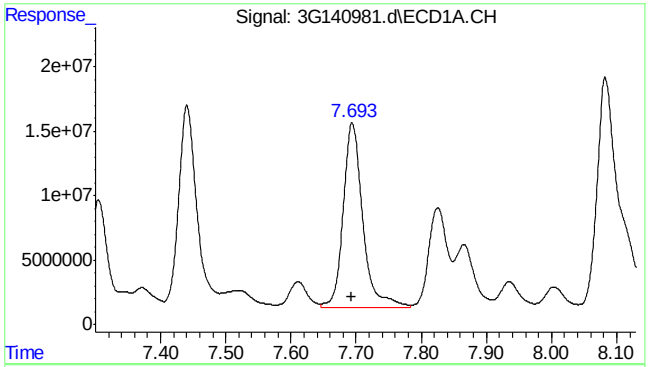
#28 AR1254-E

R.T.: 7.441 min
Delta R.T.: 0.000 min
Response: 307197465
Conc: 1150.93 PPB



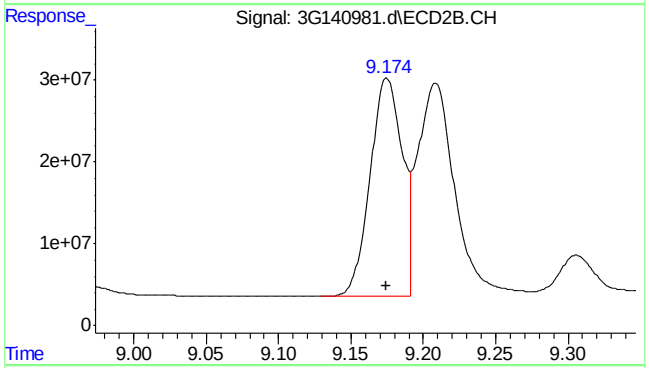
#28 AR1254-E

R.T.: 8.689 min
Delta R.T.: 0.000 min
Response: 796119768
Conc: 2057.67 PPB



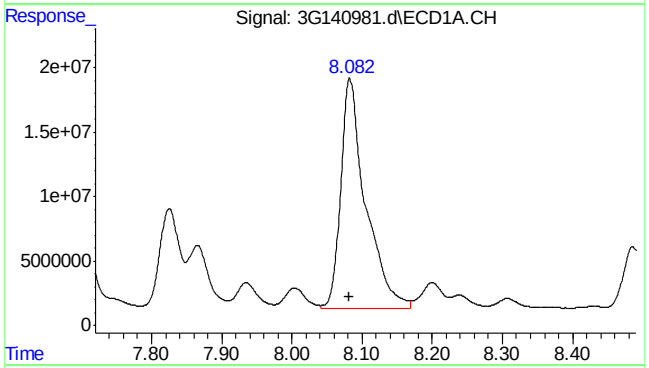
#29 AR1254-F

R.T.: 7.694 min
Delta R.T.: 0.000 min
Response: 301897844
Conc: 1280.32 PPB



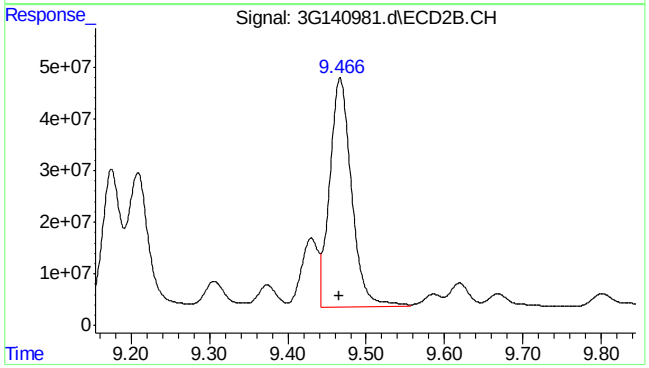
#29 AR1254-F

R.T.: 9.175 min
Delta R.T.: 0.000 min
Response: 412717880
Conc: 1869.87 PPB



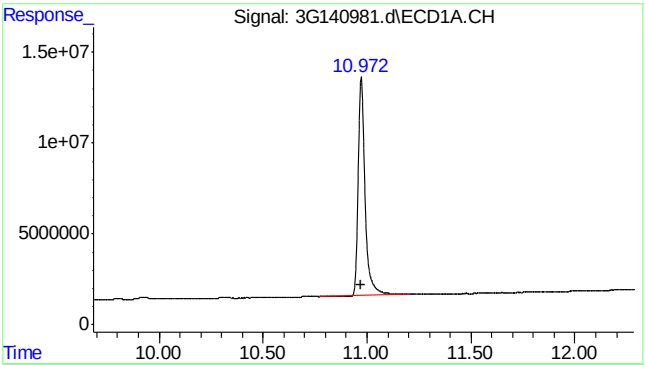
#30 AR1254-G

R.T.: 8.083 min
Delta R.T.: 0.000 min
Response: 437949821
Conc: 1192.91 PPB



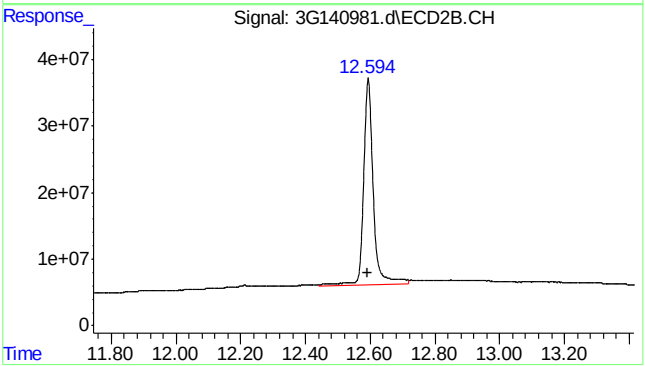
#30 AR1254-G

R.T.: 9.467 min
Delta R.T.: 0.000 min
Response: 863095795
Conc: 2145.97 PPB



#51 Decachlorobiphenyl

R.T.: 10.972 min
Delta R.T.: 0.002 min
Response: 276918324
Conc: 64.87 ppb



#51 Decachlorobiphenyl

R.T.: 12.594 min
Delta R.T.: 0.003 min
Response: 641583672
Conc: 88.17 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/25/24 12:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140982.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 18:31 pm
Operator : mahalial
Sample : ic5160-1000 (ar1232)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:52:24 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:51:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.465	4.077	281.3E6	625.0E6	47.855	74.370 #
	Spiked Amount 40.000			Recovery	= 119.64%	185.93%	
51) S	Decachlor...	10.973	12.593	248.1E6	577.2E6	58.109	79.320 #
	Spiked Amount 40.000			Recovery	= 145.27%	198.30%	
	Target Compounds						
7)	AR1232-A	3.882	4.757	142.6E6	322.8E6	1205.973	1924.233 #
8)	AR1232-B	4.325	5.325	103.9E6	266.6E6	1163.473	1917.388 #
9)	AR1232-C	4.927	5.979	221.1E6	550.6E6	1156.379m	1929.004m#
10)	AR1232-D	5.099	6.170	94644063	218.9E6	1161.692	1937.865 #
11)	AR1232-E	5.639	6.841	93316566	153.9E6	1665.690m	1931.653

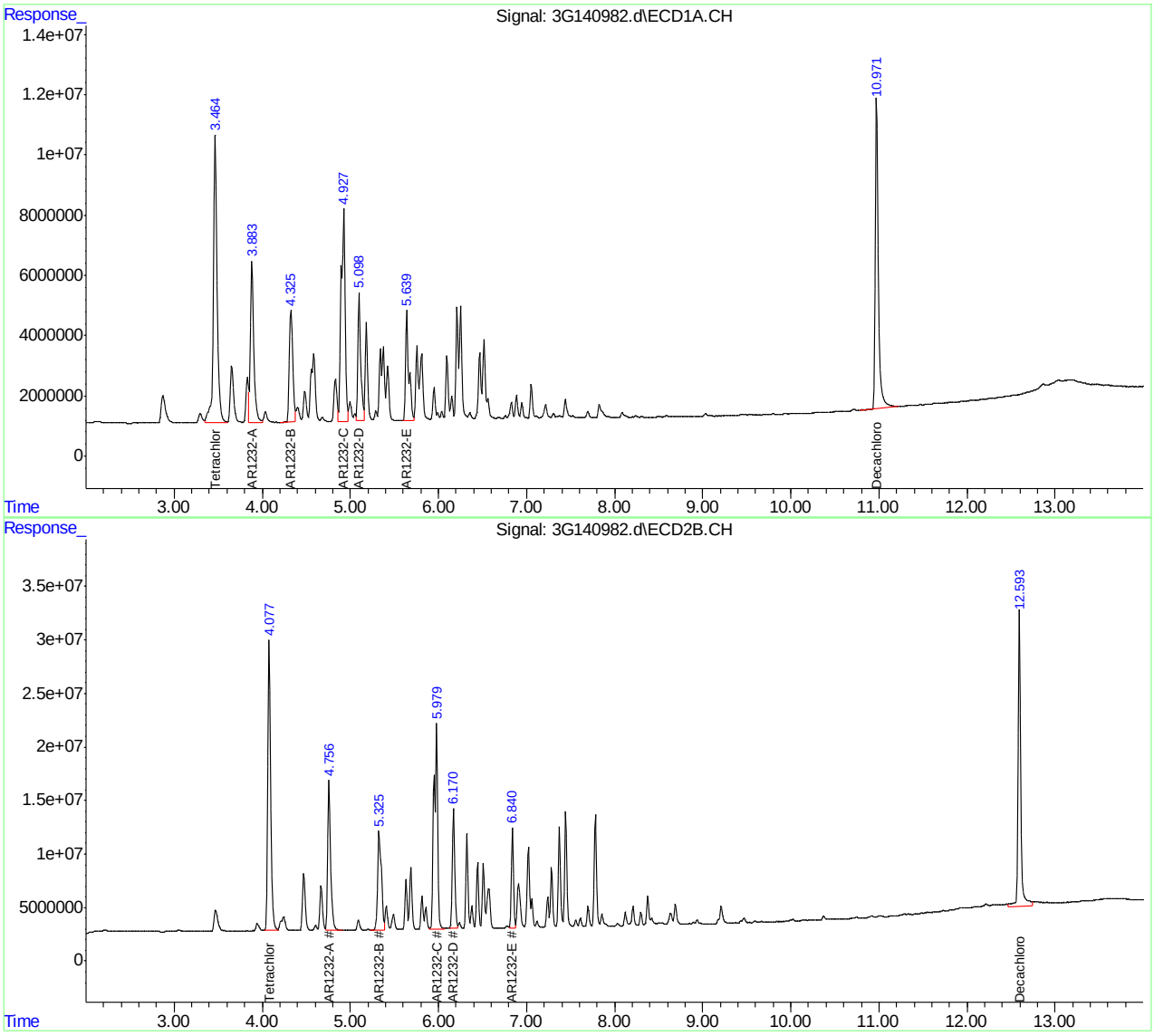
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

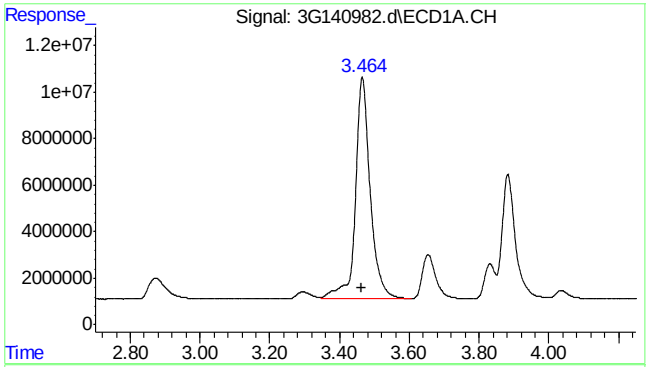
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140982.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 18:31 pm
Operator : mahalial
Sample : ic5160-1000 (ar1232)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:52:24 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:51:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

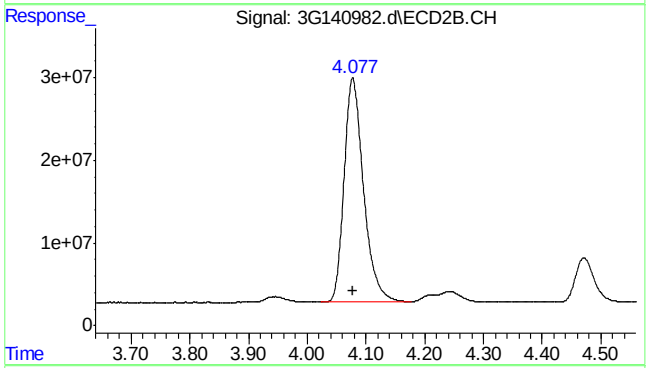
Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





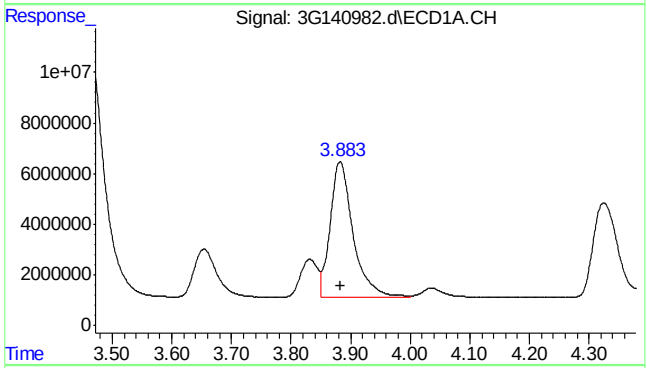
#1 Tetrachloro-m-xylene

R.T.: 3.465 min
Delta R.T.: 0.000 min
Response: 281253634
Conc: 47.86 ppb



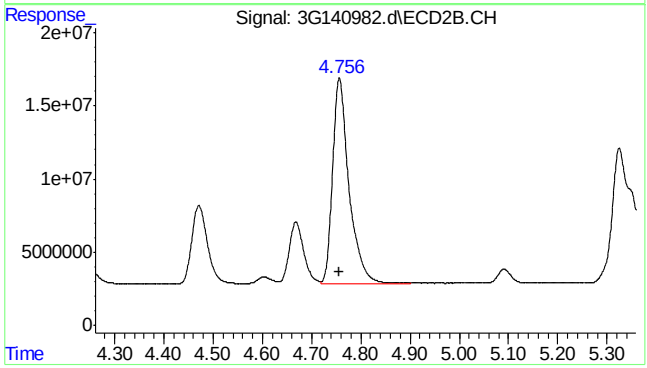
#1 Tetrachloro-m-xylene

R.T.: 4.077 min
Delta R.T.: 0.000 min
Response: 625005503
Conc: 74.37 ppb



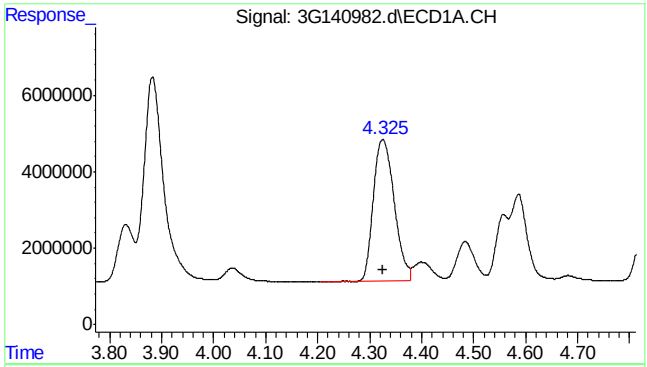
#7 AR1232-A

R.T.: 3.882 min
Delta R.T.: 0.000 min
Response: 142647993
Conc: 1205.97 PPB



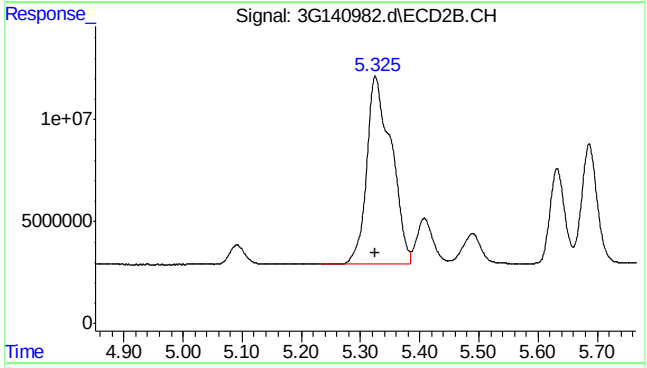
#7 AR1232-A

R.T.: 4.757 min
Delta R.T.: 0.000 min
Response: 322760475
Conc: 1924.23 PPB



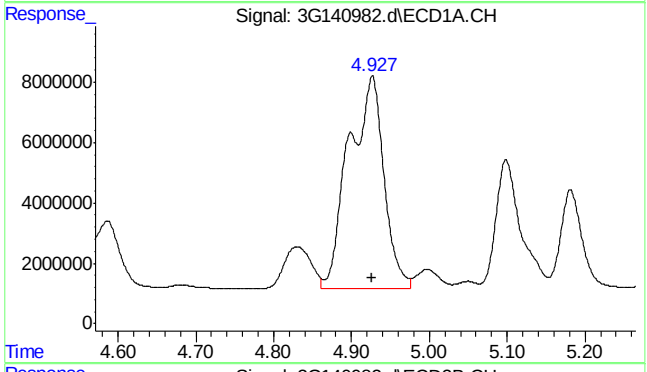
#8 AR1232-B

R.T.: 4.325 min
Delta R.T.: 0.000 min
Response: 103876273
Conc: 1163.47 PPB



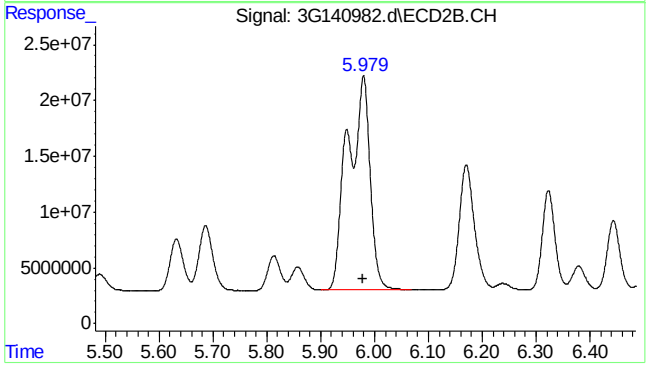
#8 AR1232-B

R.T.: 5.325 min
Delta R.T.: 0.000 min
Response: 266552285
Conc: 1917.39 PPB



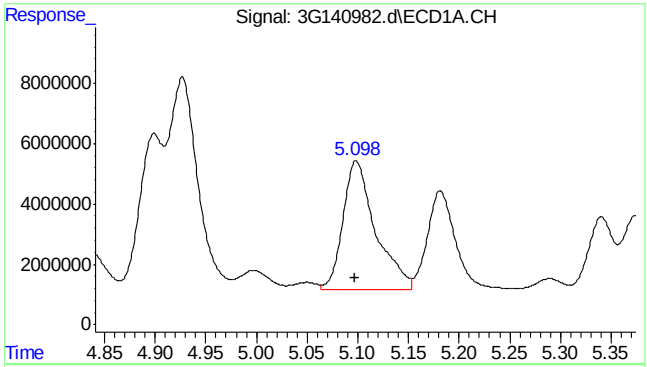
#9 AR1232-C

R.T.: 4.927 min
Delta R.T.: 0.000 min
Response: 221142082
Conc: 1156.38 PPB m



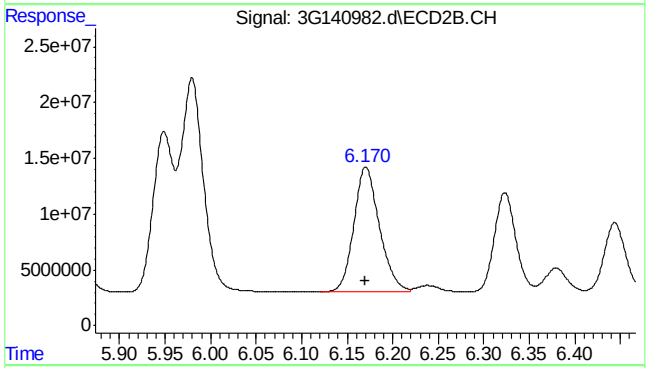
#9 AR1232-C

R.T.: 5.979 min
Delta R.T.: 0.000 min
Response: 550620052
Conc: 1929.00 PPB m



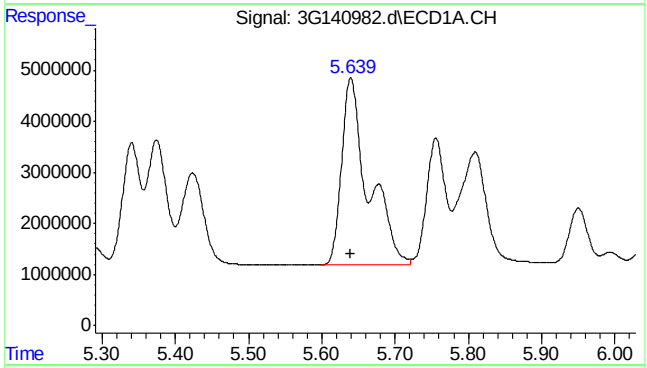
#10 AR1232-D

R.T.: 5.099 min
Delta R.T.: 0.000 min
Response: 94644063
Conc: 1161.69 PPB



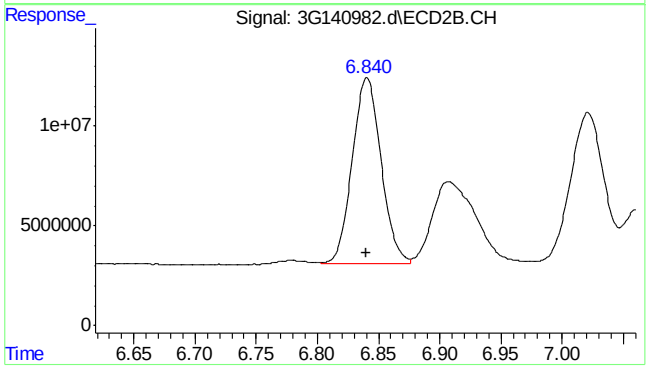
#10 AR1232-D

R.T.: 6.170 min
Delta R.T.: 0.000 min
Response: 218925804
Conc: 1937.87 PPB



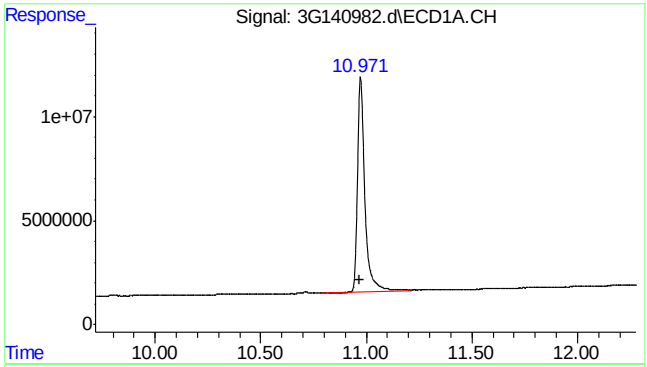
#11 AR1232-E

R.T.: 5.639 min
Delta R.T.: 0.000 min
Response: 93316566
Conc: 1665.69 PPB m



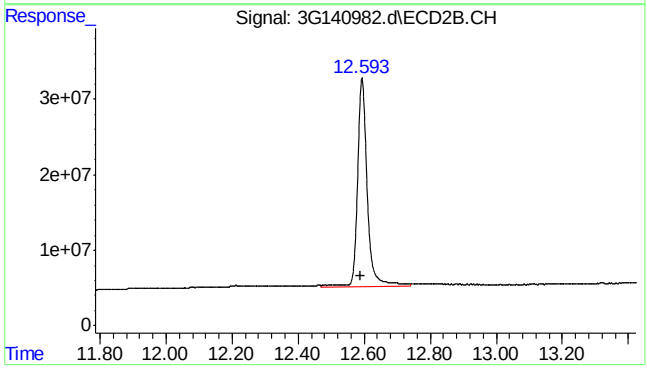
#11 AR1232-E

R.T.: 6.841 min
Delta R.T.: 0.000 min
Response: 153913571
Conc: 1931.65 PPB



#51 Decachlorobiphenyl

R.T.: 10.973 min
Delta R.T.: 0.002 min
Response: 248069160
Conc: 58.11 ppb



#51 Decachlorobiphenyl

R.T.: 12.593 min
Delta R.T.: 0.002 min
Response: 577196915
Conc: 79.32 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/25/24 12:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140983.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 18:48 pm
Operator : mahalial
Sample : ic5160-1000 (ar1262)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:54:39 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:53:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.464	4.078	288.2E6	686.3E6	49.031	81.663 #
	Spiked Amount 40.000			Recovery	=	122.58%	204.16%
51) S	Decachlor...	10.973	12.595	275.0E6	622.6E6	64.411	85.554 #
	Spiked Amount 40.000			Recovery	=	161.03%	213.89%
	Target Compounds						
31)	AR1262-A	7.691	8.935	346.6E6	791.4E6	1290.206	2305.929 #
32)	AR1262-B	8.242	9.588	439.6E6	1187.1E6	1359.004	2329.536 #
33)	AR1262-C	8.586	10.024	417.9E6	1013.9E6	1323.674	2297.603 #
34)	AR1262-D	9.023	10.368	947.4E6	2317.1E6	1465.237	2311.650 #
35)	AR1262-E	9.469	10.891	1029.6E6	2663.8E6	1387.647m	2281.438m#

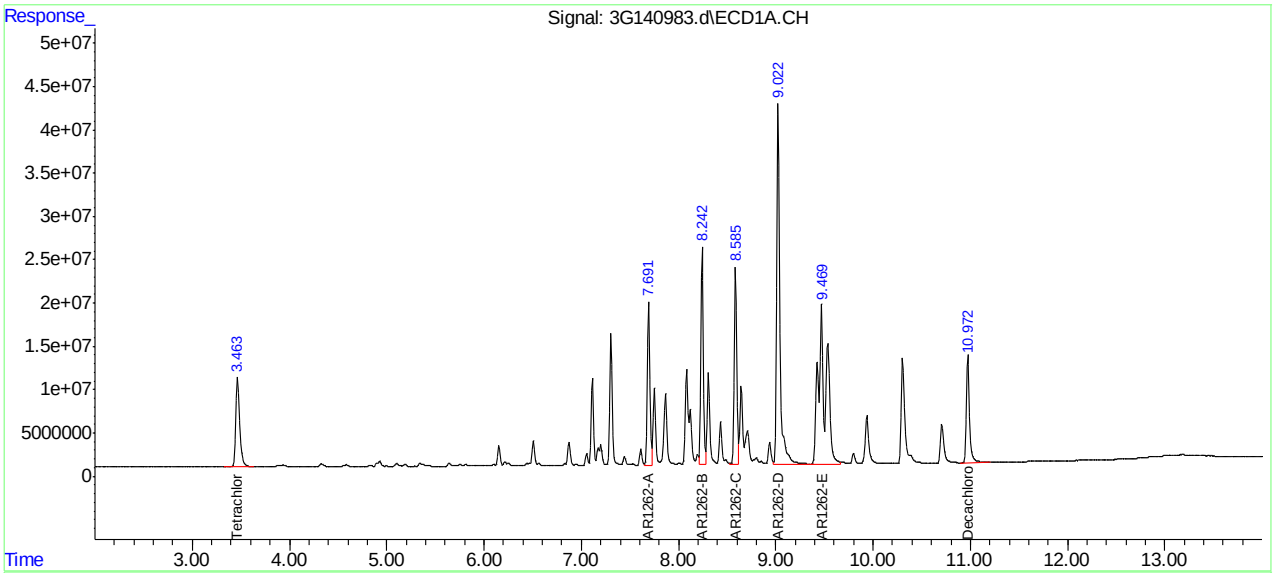
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

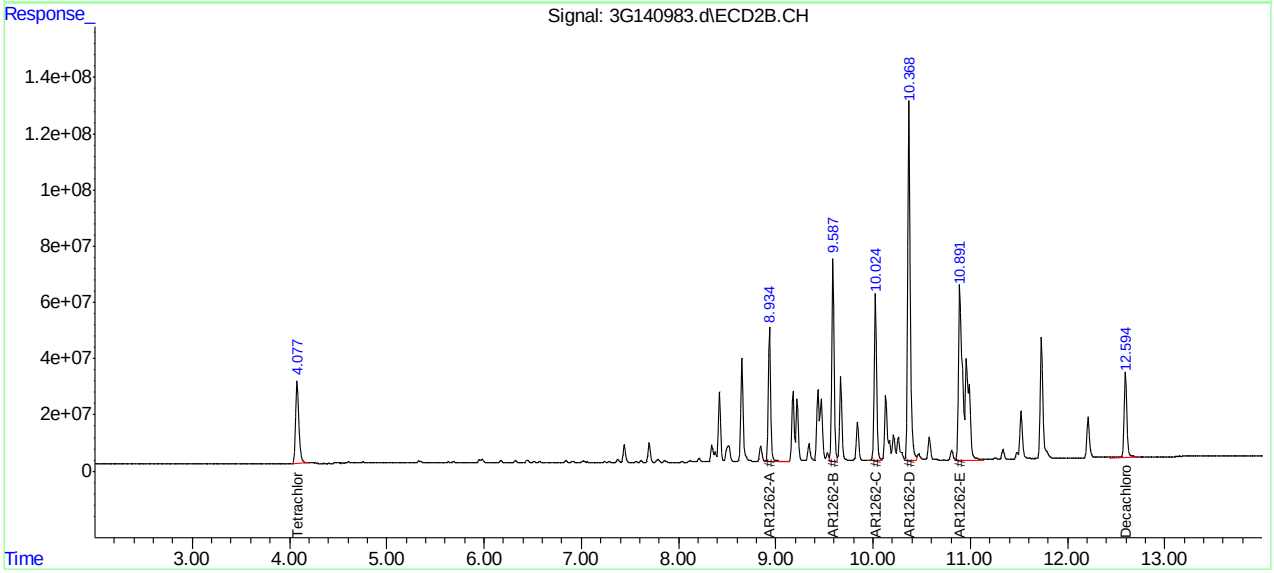
Quantitation Report (QT Reviewed)

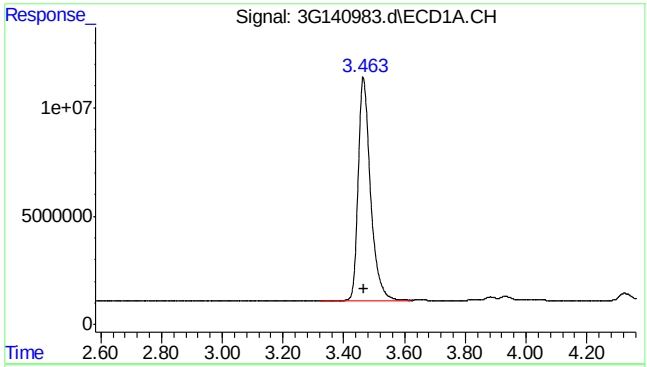
Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140983.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 18:48 pm
Operator : mahalial
Sample : ic5160-1000 (ar1262)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:54:39 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:53:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

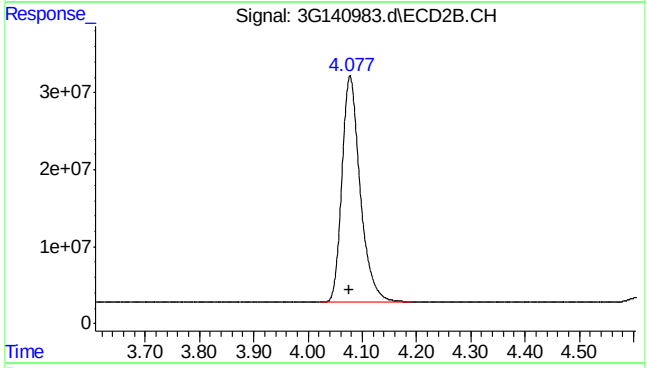






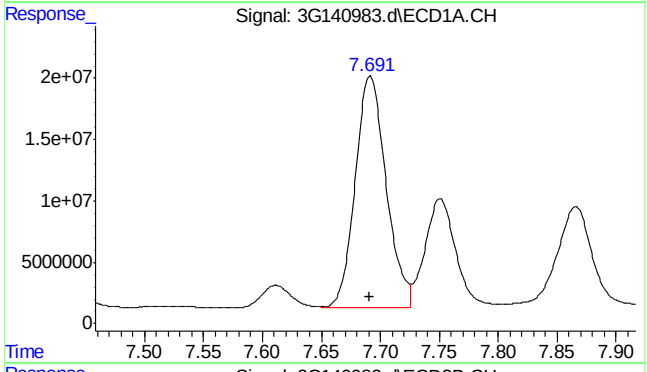
#1 Tetrachloro-m-xylene

R.T.: 3.464 min
Delta R.T.: 0.000 min
Response: 288165847
Conc: 49.03 ppb



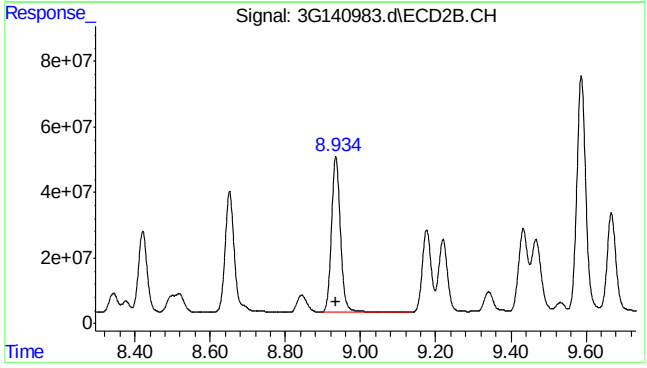
#1 Tetrachloro-m-xylene

R.T.: 4.078 min
Delta R.T.: 0.000 min
Response: 686291306
Conc: 81.66 ppb



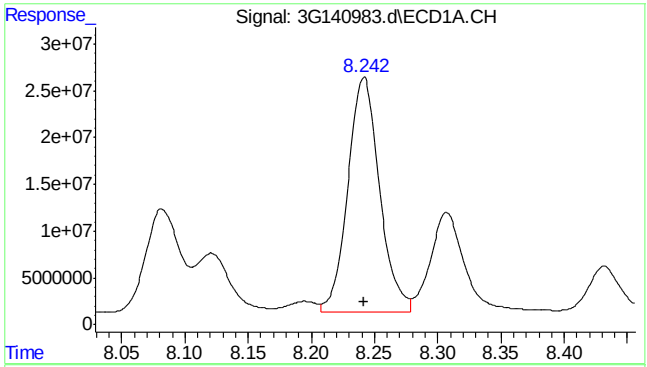
#31 AR1262-A

R.T.: 7.691 min
Delta R.T.: 0.000 min
Response: 346600702
Conc: 1290.21 PPB



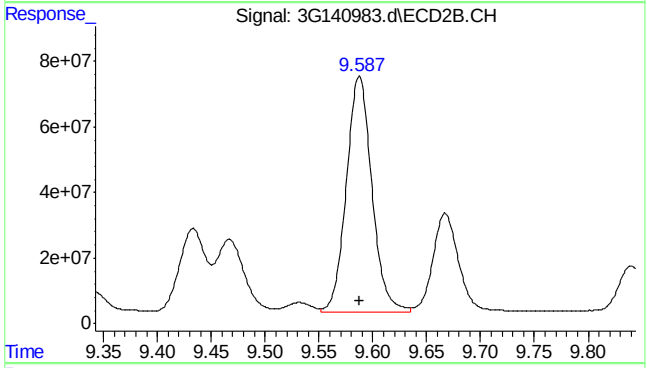
#31 AR1262-A

R.T.: 8.935 min
Delta R.T.: 0.000 min
Response: 791419142
Conc: 2305.93 PPB



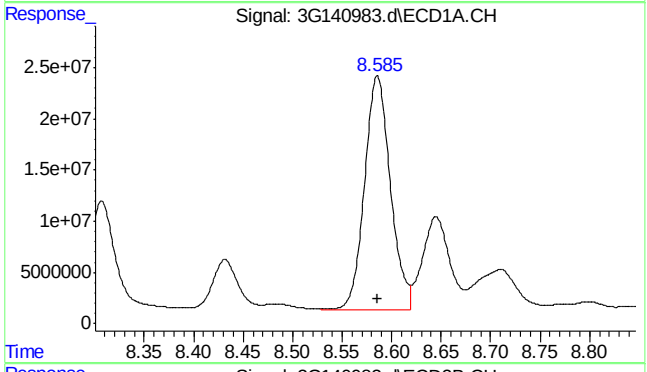
#32 AR1262-B

R.T.: 8.242 min
Delta R.T.: 0.000 min
Response: 439628448
Conc: 1359.00 PPB



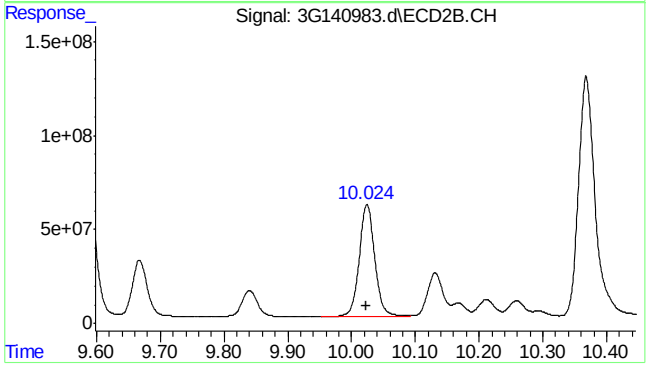
#32 AR1262-B

R.T.: 9.588 min
Delta R.T.: 0.000 min
Response: 1187086178
Conc: 2329.54 PPB



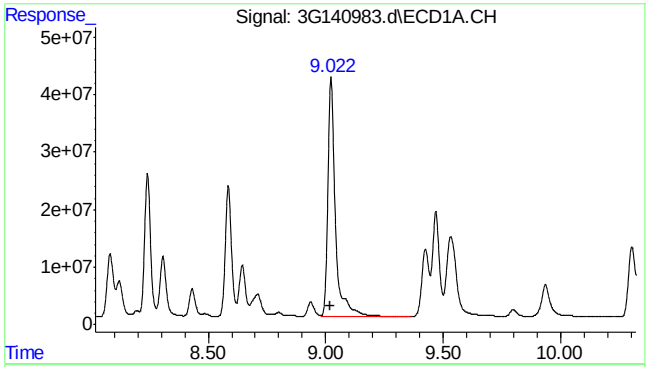
#33 AR1262-C

R.T.: 8.586 min
Delta R.T.: 0.000 min
Response: 417854158
Conc: 1323.67 PPB



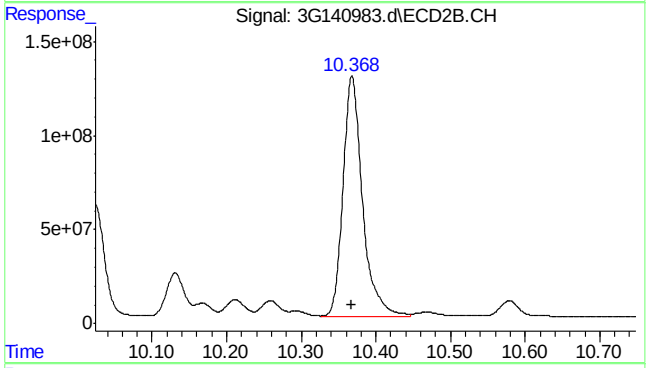
#33 AR1262-C

R.T.: 10.024 min
Delta R.T.: 0.000 min
Response: 1013875593
Conc: 2297.60 PPB



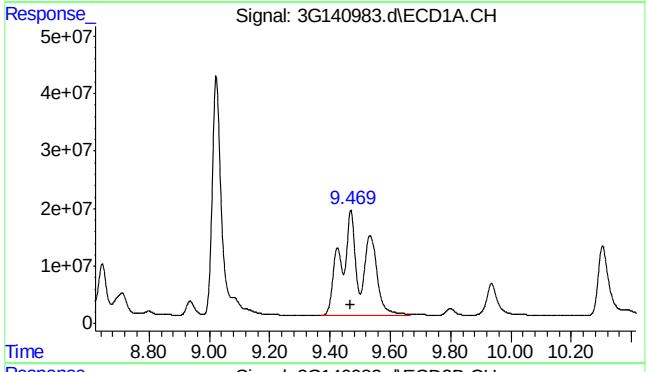
#34 AR1262-D

R.T.: 9.023 min
Delta R.T.: 0.000 min
Response: 947366914
Conc: 1465.24 PPB



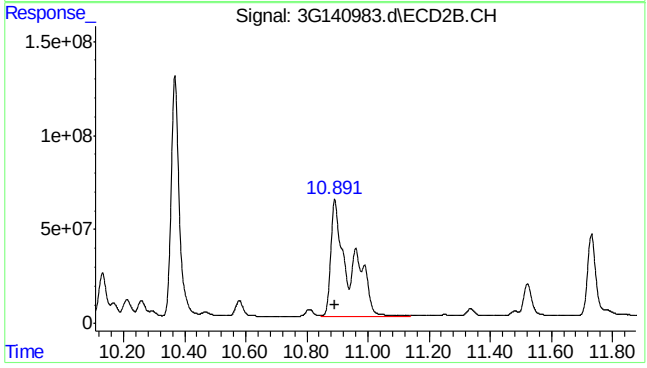
#34 AR1262-D

R.T.: 10.368 min
Delta R.T.: 0.000 min
Response: 2317133139
Conc: 2311.65 PPB



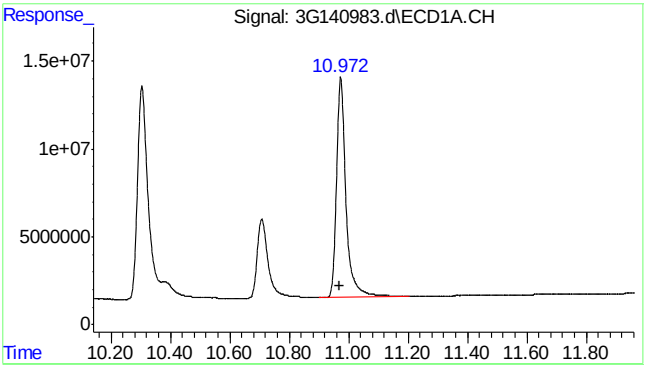
#35 AR1262-E

R.T.: 9.469 min
Delta R.T.: 0.000 min
Response: 1029619284
Conc: 1387.65 PPB m



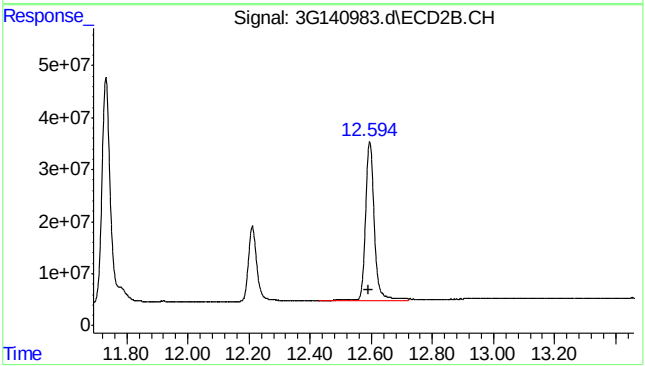
#35 AR1262-E

R.T.: 10.891 min
Delta R.T.: 0.000 min
Response: 2663803329
Conc: 2281.44 PPB m



#51 Decachlorobiphenyl

R.T.: 10.973 min
Delta R.T.: 0.003 min
Response: 274972180
Conc: 64.41 ppb



#51 Decachlorobiphenyl

R.T.: 12.595 min
Delta R.T.: 0.004 min
Response: 622560027
Conc: 85.55 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/25/24 12:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140984.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 19:04 pm
Operator : mahalial
Sample : ic5160-1000 (ar1242)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:56:49 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.465	4.078	284.2E6	646.9E6	48.349	76.971 #
	Spiked Amount 40.000			Recovery	= 120.87%	192.43%	
51) S	Decachlor...	10.975	12.597	256.6E6	564.6E6	60.097	77.586 #
	Spiked Amount 40.000			Recovery	= 150.24%	193.96%	
	Target Compounds						
12)	AR1242-A	4.324	5.326	195.7E6	451.6E6	1255.302	1922.433 #
13)	AR1242-B	4.925	5.980	399.6E6	1009.3E6	1156.430m	1969.735m#
14)	AR1242-C	5.099	6.171	170.5E6	394.6E6	1183.463	1993.489 #
15)	AR1242-D	5.640	6.841	185.2E6	313.7E6	1708.979m	2012.224
16)	AR1242-E	6.252	7.446	147.6E6	386.8E6	1273.620	2017.015 #

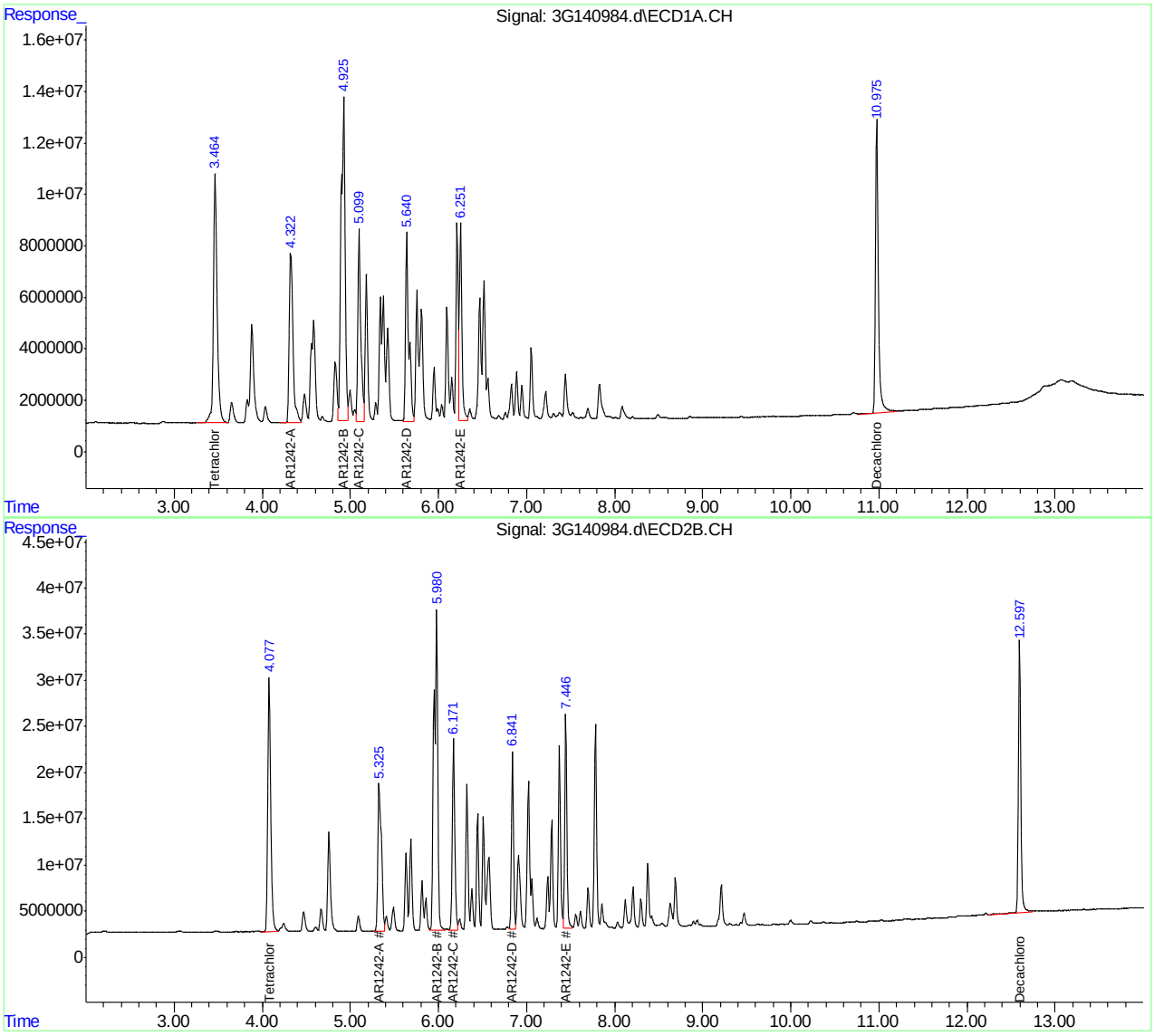
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

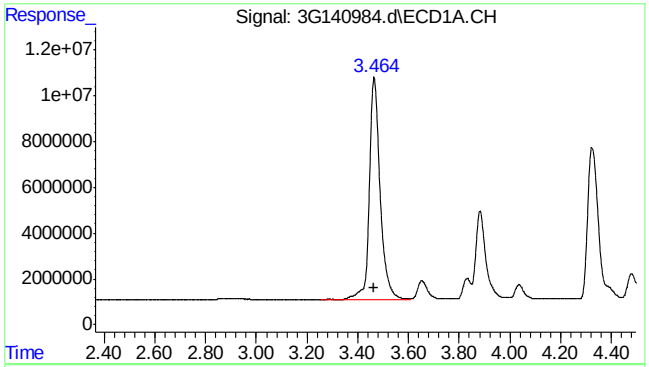
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140984.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 19:04 pm
Operator : mahalial
Sample : ic5160-1000 (ar1242)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:56:49 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

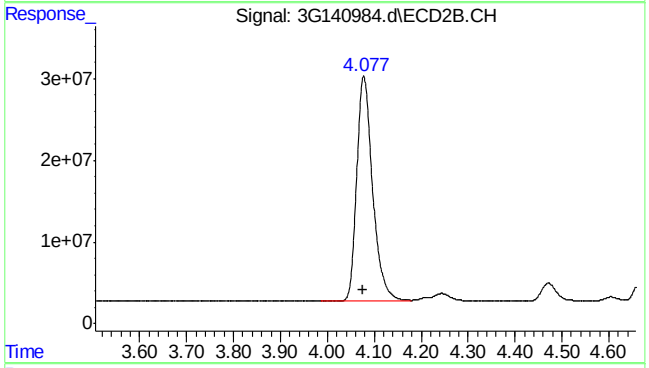
Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





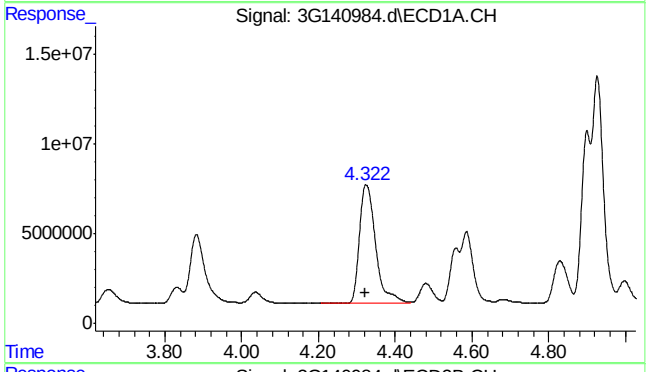
#1 Tetrachloro-m-xylene

R.T.: 3.465 min
Delta R.T.: 0.000 min
Response: 284153667
Conc: 48.35 ppb



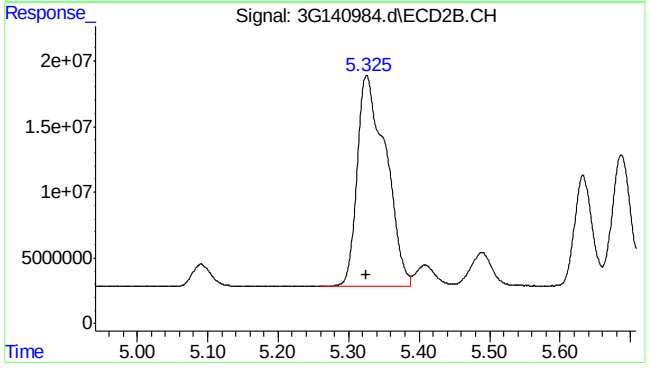
#1 Tetrachloro-m-xylene

R.T.: 4.078 min
Delta R.T.: 0.000 min
Response: 646858258
Conc: 76.97 ppb



#12 AR1242-A

R.T.: 4.324 min
Delta R.T.: 0.002 min
Response: 195700031
Conc: 1255.30 PPB

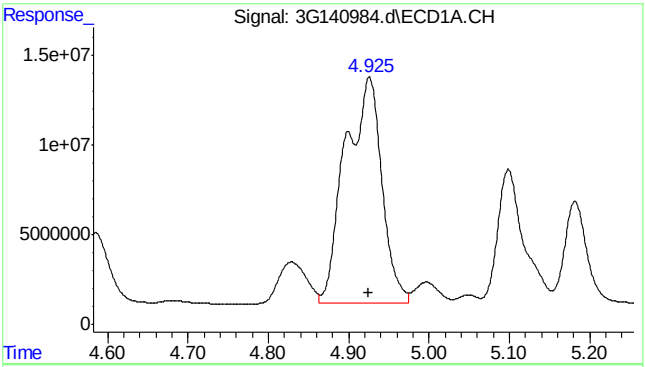


#12 AR1242-A

R.T.: 5.326 min
Delta R.T.: 0.000 min
Response: 451561120
Conc: 1922.43 PPB

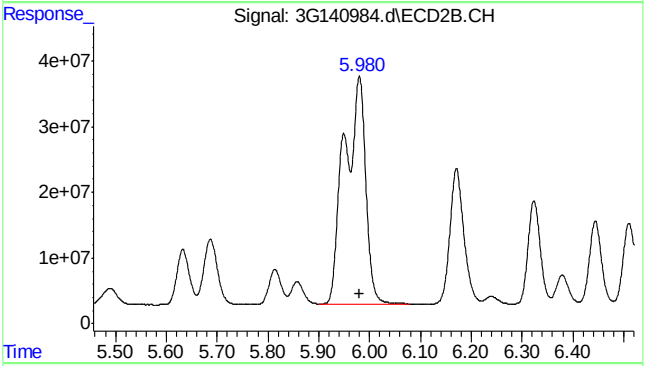
9.3.6

6



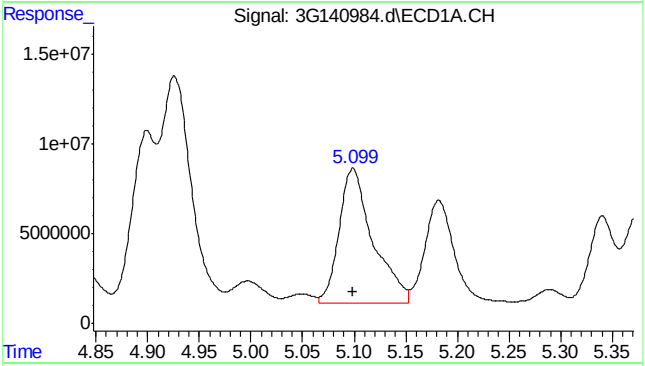
#13 AR1242-B

R.T.: 4.925 min
Delta R.T.: 0.000 min
Response: 399596591
Conc: 1156.43 PPB m



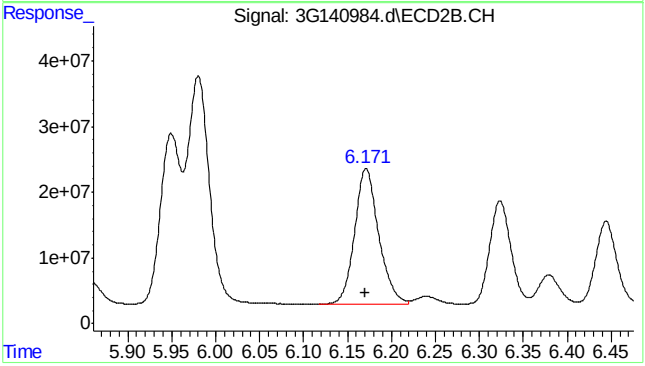
#13 AR1242-B

R.T.: 5.980 min
Delta R.T.: 0.000 min
Response: 1009325081
Conc: 1969.73 PPB m



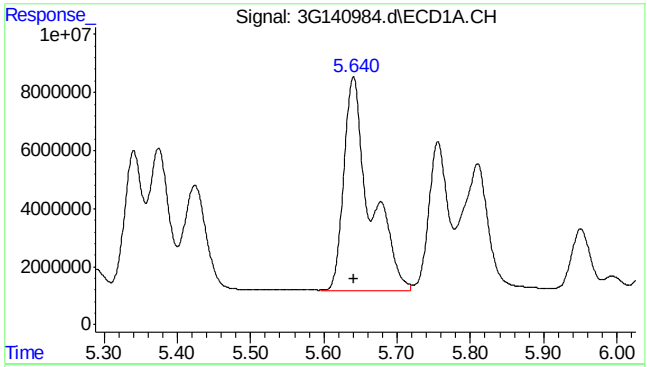
#14 AR1242-C

R.T.: 5.099 min
Delta R.T.: 0.000 min
Response: 170519259
Conc: 1183.46 PPB



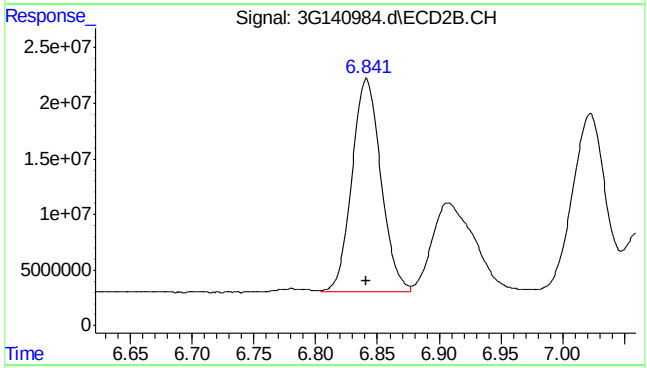
#14 AR1242-C

R.T.: 6.171 min
Delta R.T.: 0.000 min
Response: 394580292
Conc: 1993.49 PPB



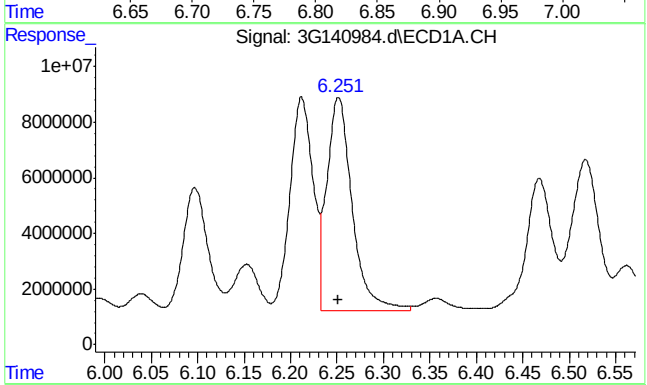
#15 AR1242-D

R.T.: 5.640 min
Delta R.T.: 0.000 min
Response: 185208097
Conc: 1708.98 PPB m



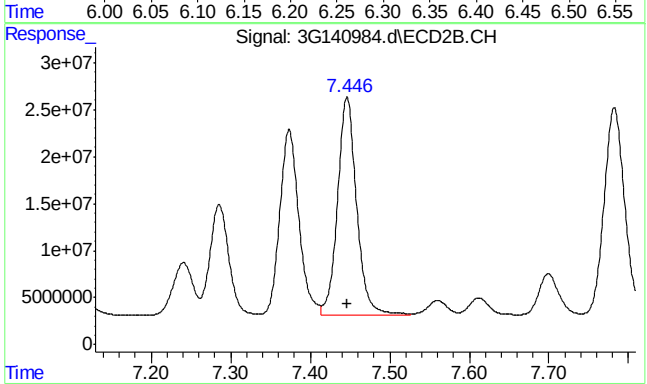
#15 AR1242-D

R.T.: 6.841 min
Delta R.T.: 0.000 min
Response: 313664429
Conc: 2012.22 PPB



#16 AR1242-E

R.T.: 6.252 min
Delta R.T.: 0.000 min
Response: 147553185
Conc: 1273.62 PPB

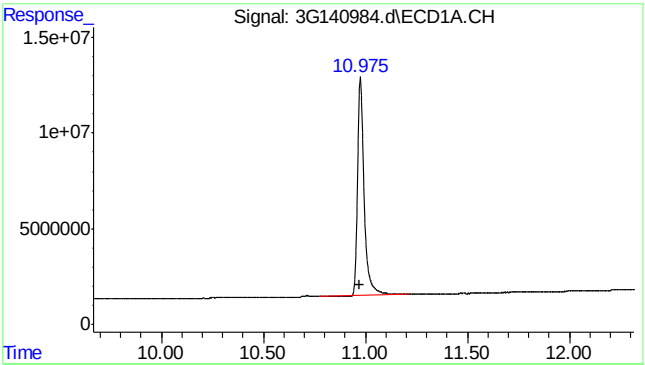


#16 AR1242-E

R.T.: 7.446 min
Delta R.T.: 0.000 min
Response: 386833734
Conc: 2017.01 PPB

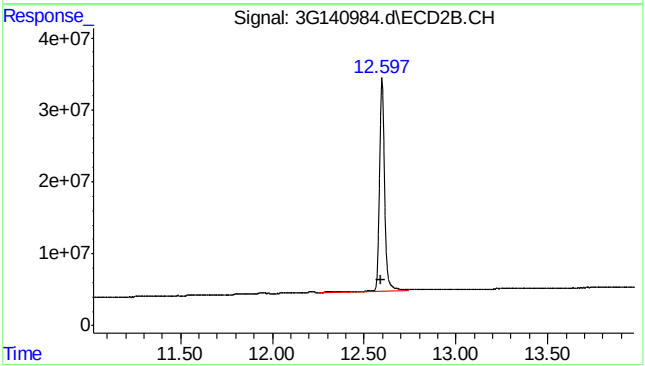
9.3.6

6



#51 Decachlorobiphenyl

R.T.: 10.975 min
Delta R.T.: 0.005 min
Response: 256554640
Conc: 60.10 ppb



#51 Decachlorobiphenyl

R.T.: 12.597 min
Delta R.T.: 0.007 min
Response: 564577323
Conc: 77.59 ppb

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140985.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 19:21 pm
Operator : mahalial
Sample : ic5160-1000 (ar1268)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:58:14 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:57:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.465	4.077	297.9E6	704.3E6	50.688	83.800 #
	Spiked Amount 40.000			Recovery	= 126.72%	209.50%	
51) S	Decachlor...	10.976	12.597	819.8E6	1765.8E6	192.039	242.654 #
	Spiked Amount 40.000			Recovery	= 480.10%	606.63%	
	Target Compounds						
36)	AR1268-A	9.473	10.893	890.7E6	2670.0E6	1243.372	2170.509 #
37)	AR1268-B	9.530	10.962	993.6E6	2588.4E6	1446.800	2180.855 #
38)	AR1268-C	9.802	11.338	791.7E6	2191.3E6	1400.758	2149.198 #
39)	AR1268-D	10.306	11.733	329.9E6	883.0E6	1334.002	2071.306 #
40)	AR1268-E	10.709	12.214	2566.2E6	6338.8E6	1438.187	2015.045 #

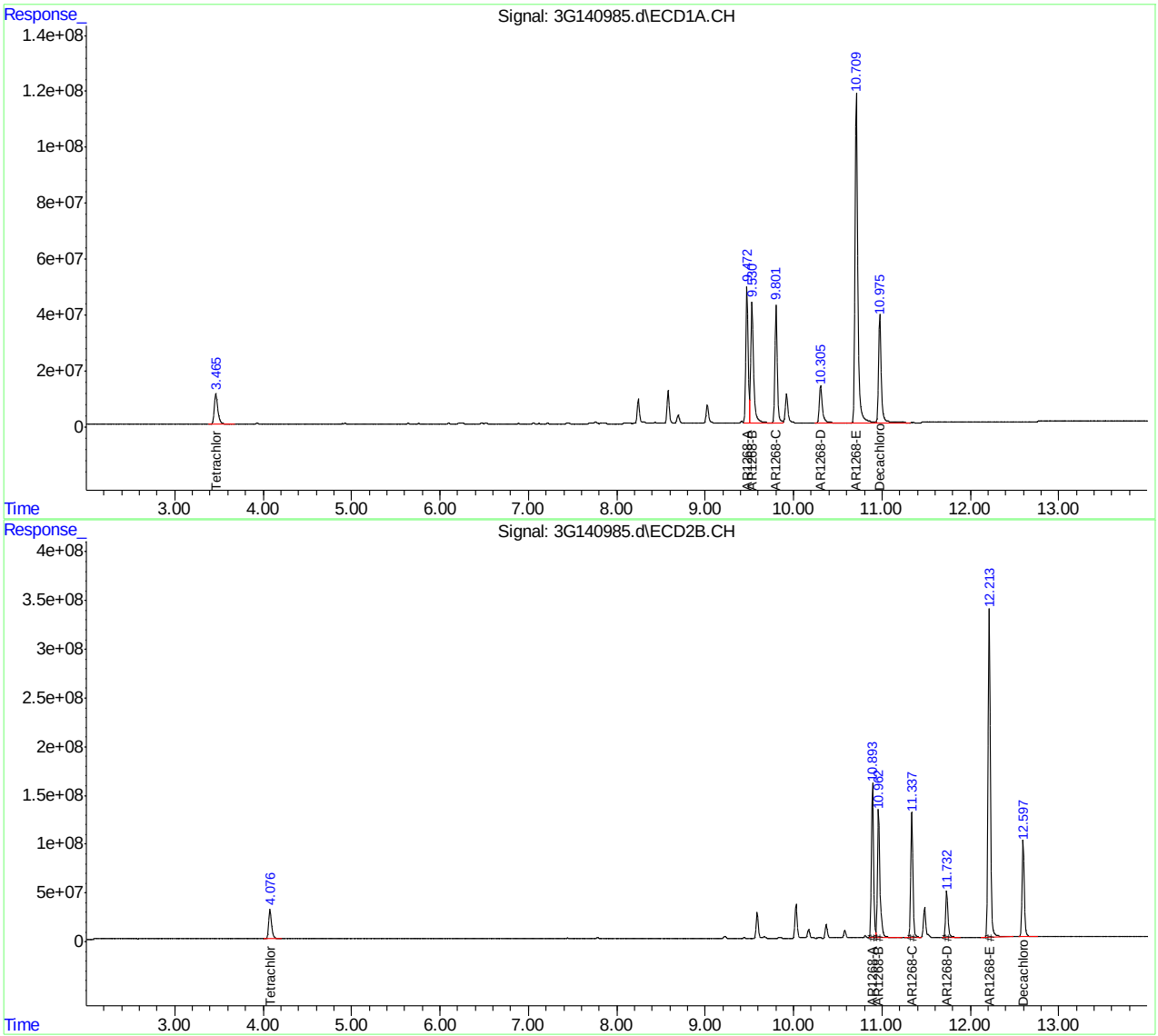
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

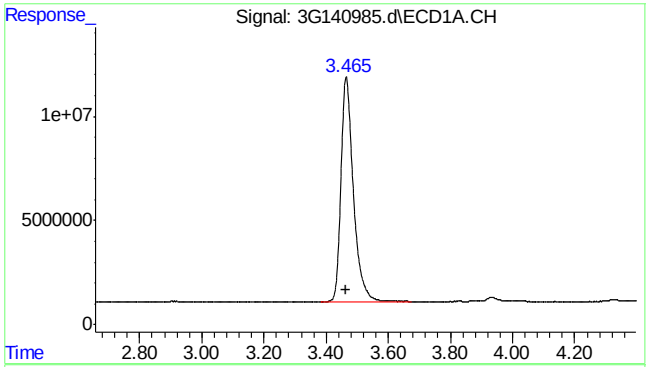
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140985.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 19:21 pm
Operator : mahalial
Sample : ic5160-1000 (ar1268)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:58:14 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:57:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

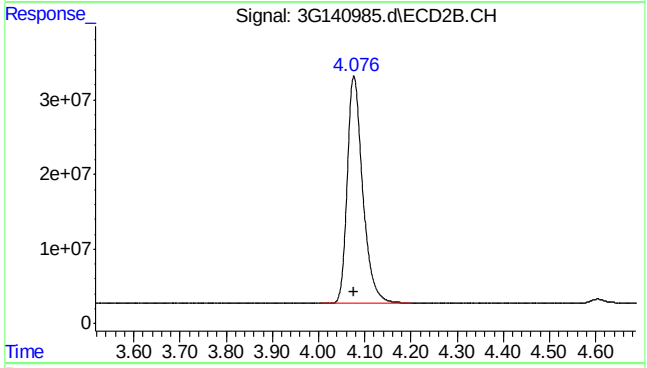
Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





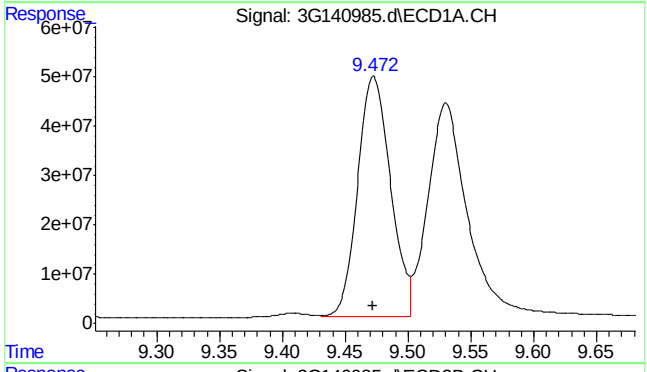
#1 Tetrachloro-m-xylene

R.T.: 3.465 min
Delta R.T.: 0.000 min
Response: 297906144
Conc: 50.69 ppb



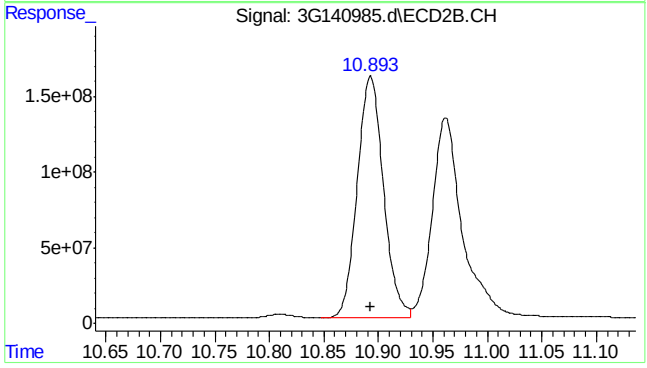
#1 Tetrachloro-m-xylene

R.T.: 4.077 min
Delta R.T.: 0.000 min
Response: 704254392
Conc: 83.80 ppb



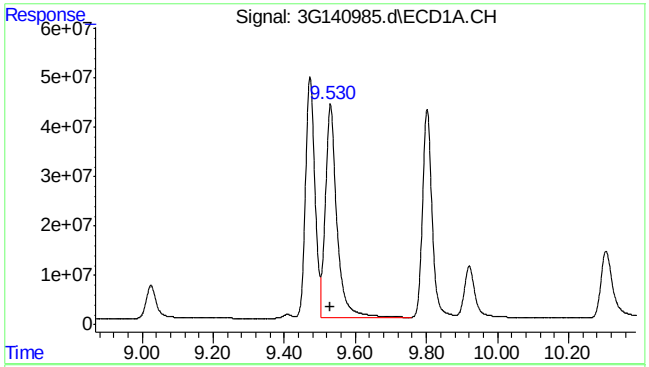
#36 AR1268-A

R.T.: 9.473 min
Delta R.T.: 0.000 min
Response: 890738545
Conc: 1243.37 PPB



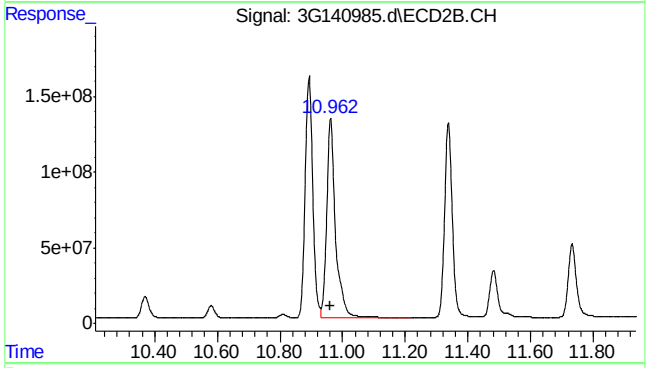
#36 AR1268-A

R.T.: 10.893 min
Delta R.T.: 0.000 min
Response: 2670000902
Conc: 2170.51 PPB



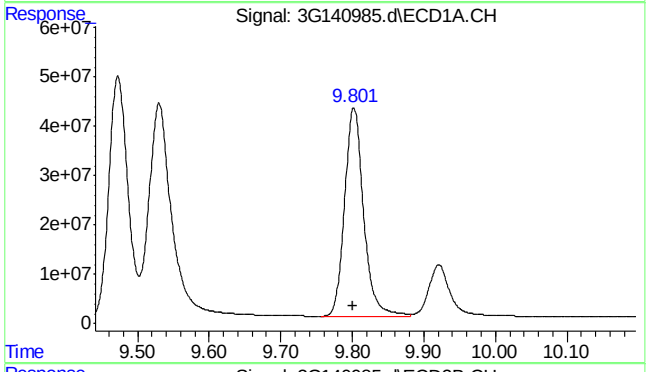
#37 AR1268-B

R.T.: 9.530 min
Delta R.T.: 0.000 min
Response: 993606327
Conc: 1446.80 PPB



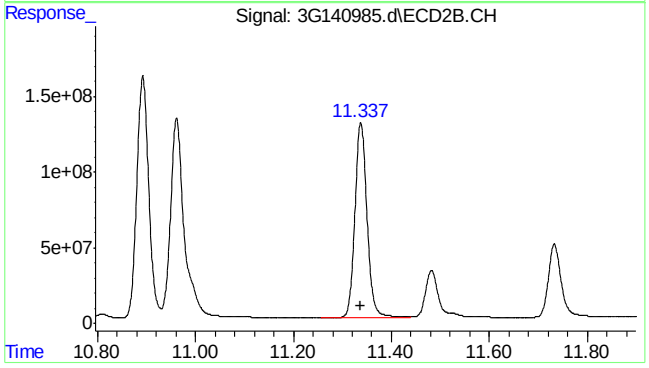
#37 AR1268-B

R.T.: 10.962 min
Delta R.T.: 0.000 min
Response: 2588375597
Conc: 2180.86 PPB



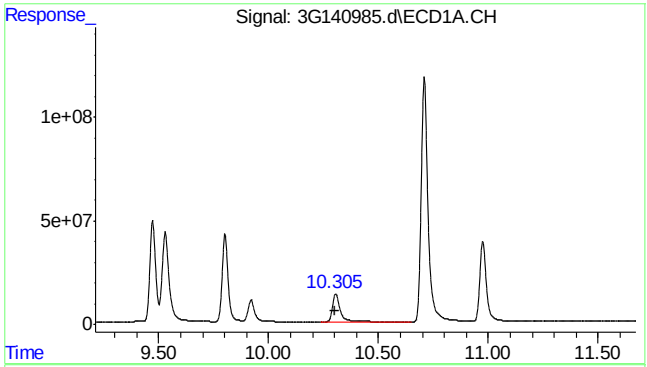
#38 AR1268-C

R.T.: 9.802 min
Delta R.T.: 0.000 min
Response: 791719181
Conc: 1400.76 PPB



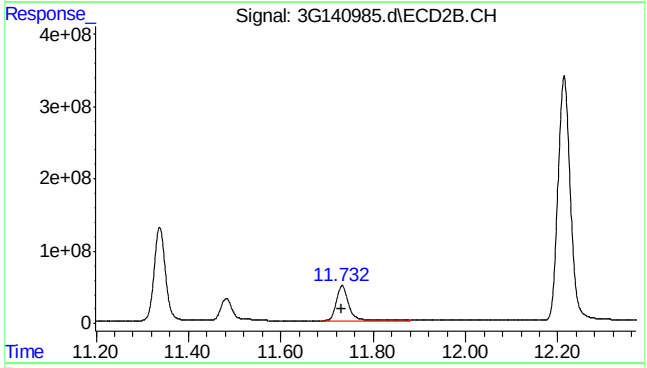
#38 AR1268-C

R.T.: 11.338 min
Delta R.T.: 0.000 min
Response: 2191333696
Conc: 2149.20 PPB



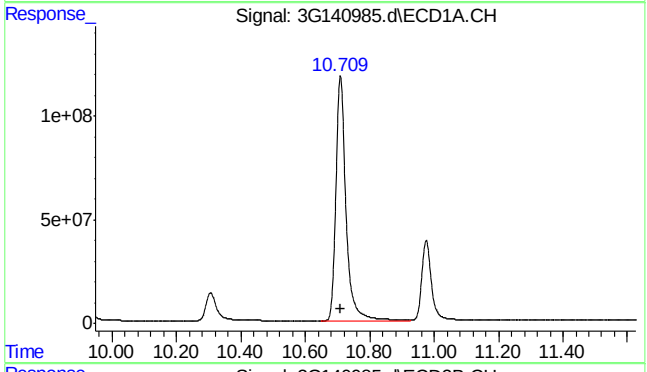
#39 AR1268-D

R.T.: 10.306 min
Delta R.T.: 0.000 min
Response: 329922808
Conc: 1334.00 PPB



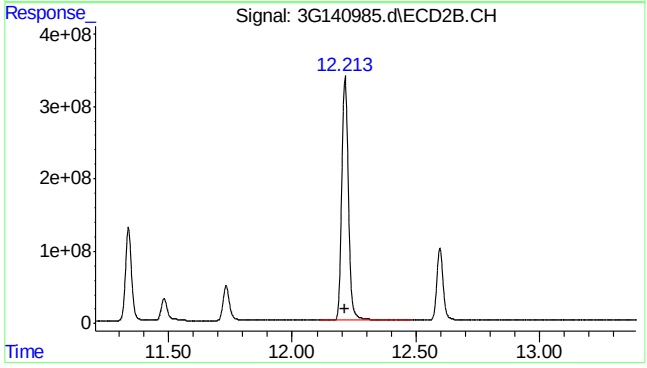
#39 AR1268-D

R.T.: 11.733 min
Delta R.T.: 0.000 min
Response: 883026145
Conc: 2071.31 PPB



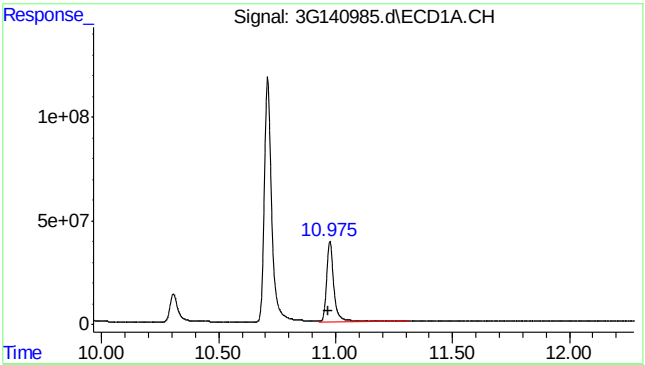
#40 AR1268-E

R.T.: 10.709 min
Delta R.T.: 0.000 min
Response: 2566180577
Conc: 1438.19 PPB



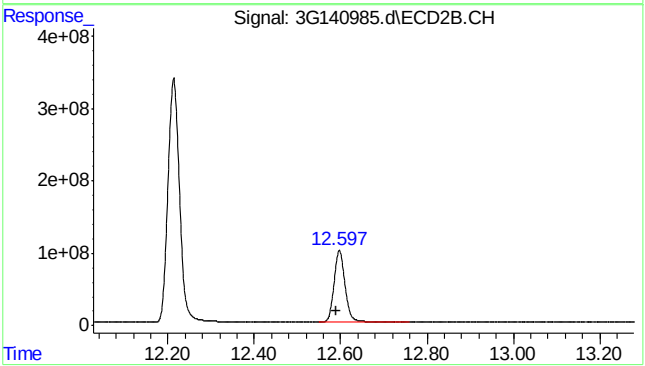
#40 AR1268-E

R.T.: 12.214 min
Delta R.T.: 0.000 min
Response: 6338751842
Conc: 2015.05 PPB



#51 Decachlorobiphenyl

R.T.: 10.976 min
Delta R.T.: 0.005 min
Response: 819816615
Conc: 192.04 ppb



#51 Decachlorobiphenyl

R.T.: 12.597 min
Delta R.T.: 0.007 min
Response: 1765753829
Conc: 242.65 ppb

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
04/25/24 12:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140986.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 19:38 pm
Operator : mahalial
Sample : ic5160-1000 (ar1248)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 07:00:09 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:59:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.465	4.077	260.9E6	615.5E6	44.392	73.245 #
	Spiked Amount 40.000			Recovery	= 110.98%	183.11%	
51) S	Decachlor...	10.979	12.598	245.2E6	550.9E6	57.441	75.711 #
	Spiked Amount 40.000			Recovery	= 143.60%	189.28%	
	Target Compounds						
17)	AR1248-A	4.322	5.325	93535425	222.5E6	1281.391	2108.497 #
18)	AR1248-B	4.927	5.978	252.0E6	645.7E6	1232.378m	2140.440m#
19)	AR1248-C	5.341	6.444	145.1E6	376.7E6	1239.118	2141.791 #
20)	AR1248-D	5.641	6.841	209.0E6	507.8E6	1286.513	2148.761 #
21)	AR1248-E	5.757	7.022	147.1E6	490.4E6	1304.085	2195.966 #
22)	AR1248-F	6.213	7.445	244.0E6	697.6E6	1390.486	2204.696 #
23)	AR1248-G	6.517	7.782	209.3E6	685.0E6	1311.494	2231.007 #

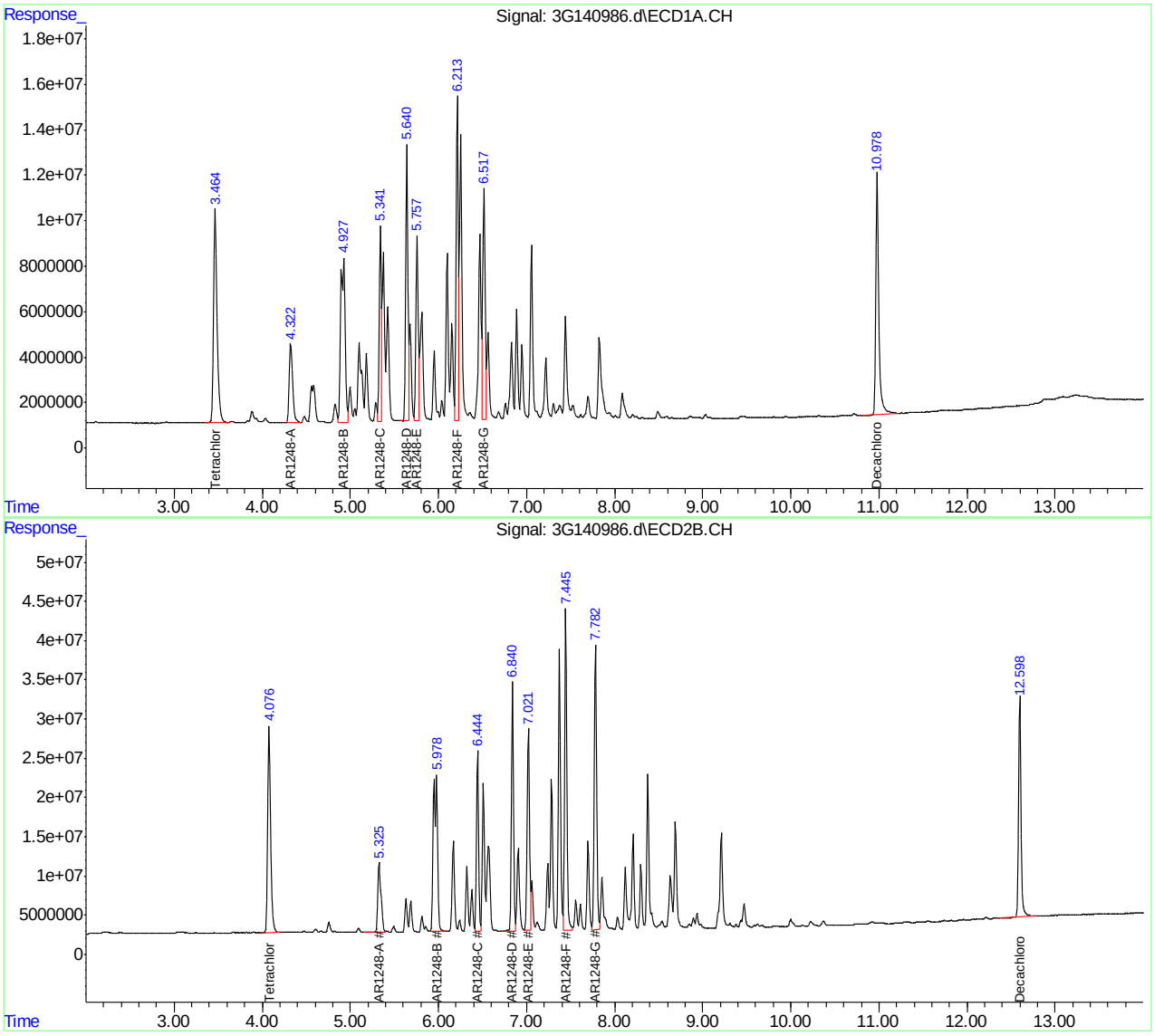
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

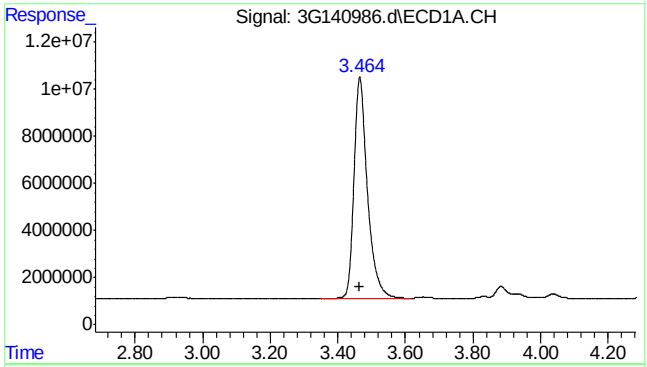
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140986.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 19:38 pm
Operator : mahalial
Sample : ic5160-1000 (ar1248)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 07:00:09 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:59:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

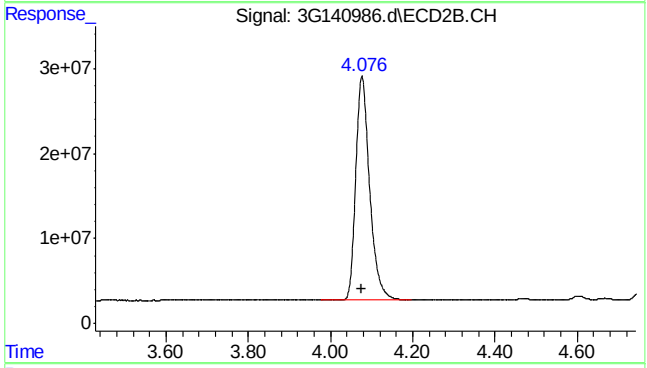
Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





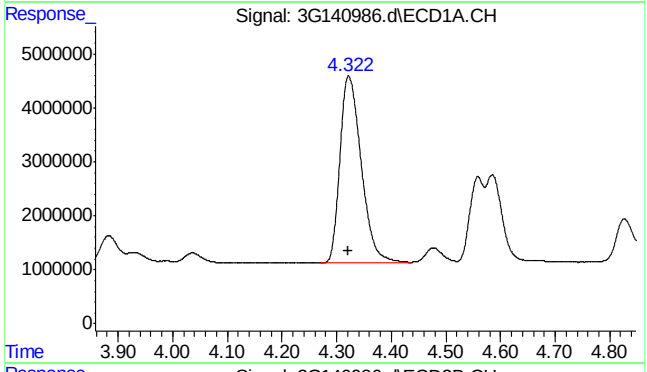
#1 Tetrachloro-m-xylene

R.T.: 3.465 min
Delta R.T.: 0.000 min
Response: 260902231
Conc: 44.39 ppb



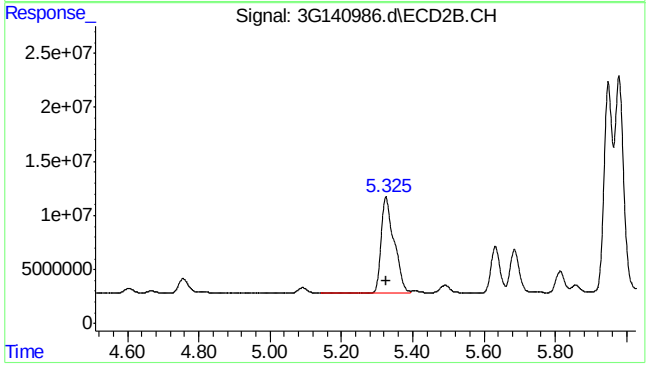
#1 Tetrachloro-m-xylene

R.T.: 4.077 min
Delta R.T.: 0.000 min
Response: 615545263
Conc: 73.24 ppb



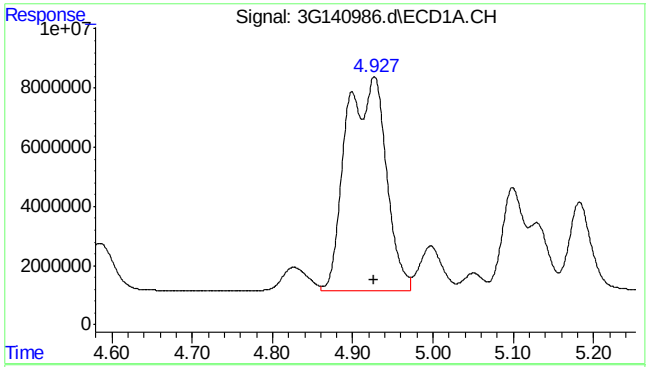
#17 AR1248-A

R.T.: 4.322 min
Delta R.T.: 0.000 min
Response: 93535425
Conc: 1281.39 PPB



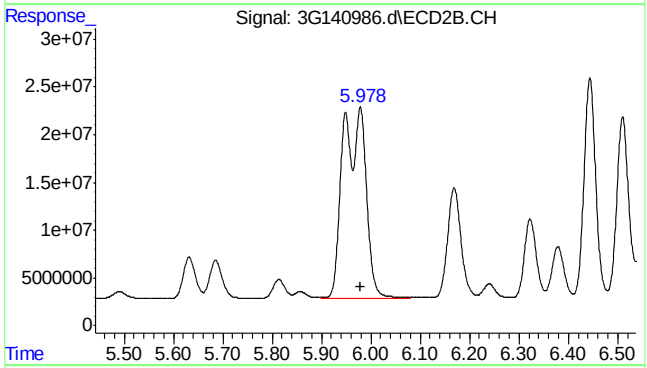
#17 AR1248-A

R.T.: 5.325 min
Delta R.T.: 0.000 min
Response: 222500979
Conc: 2108.50 PPB



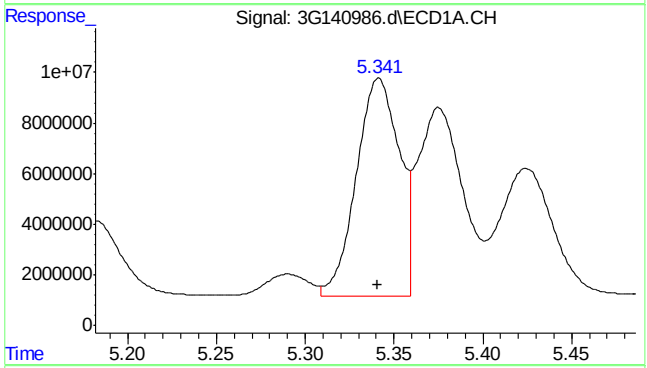
#18 AR1248-B

R.T.: 4.927 min
Delta R.T.: 0.000 min
Response: 251972435
Conc: 1232.38 PPB m



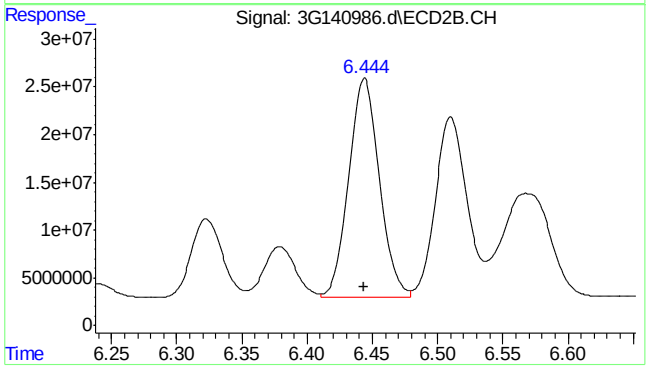
#18 AR1248-B

R.T.: 5.978 min
Delta R.T.: 0.000 min
Response: 645727370
Conc: 2140.44 PPB m



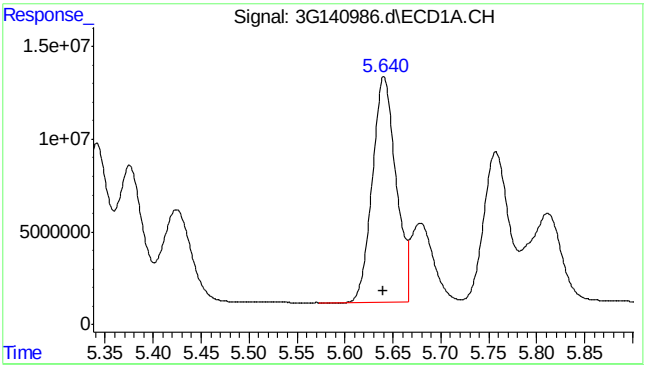
#19 AR1248-C

R.T.: 5.341 min
Delta R.T.: 0.000 min
Response: 145071543
Conc: 1239.12 PPB



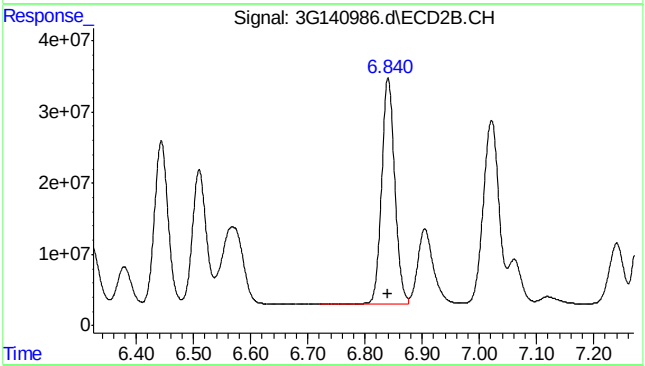
#19 AR1248-C

R.T.: 6.444 min
Delta R.T.: 0.000 min
Response: 376662260
Conc: 2141.79 PPB



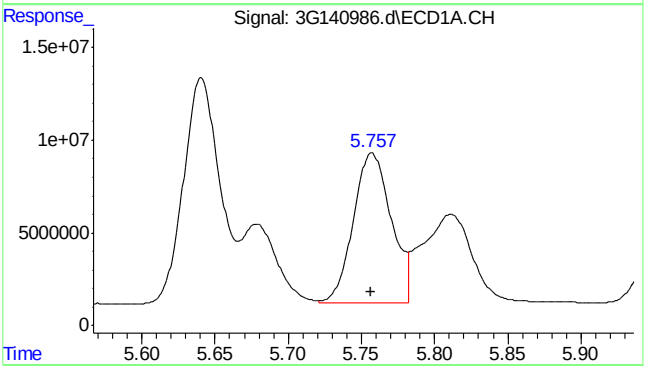
#20 AR1248-D

R.T.: 5.641 min
Delta R.T.: 0.000 min
Response: 209047602
Conc: 1286.51 PPB



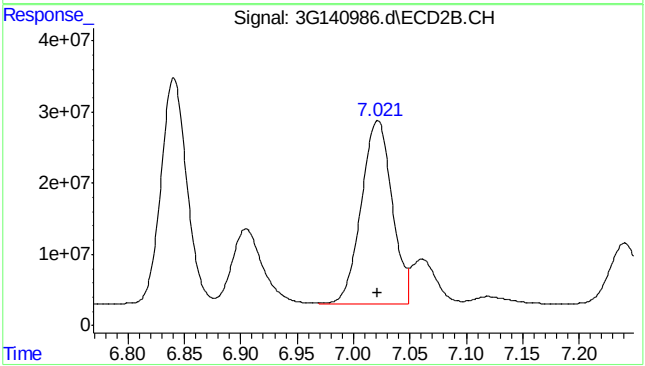
#20 AR1248-D

R.T.: 6.841 min
Delta R.T.: 0.000 min
Response: 507835636
Conc: 2148.76 PPB



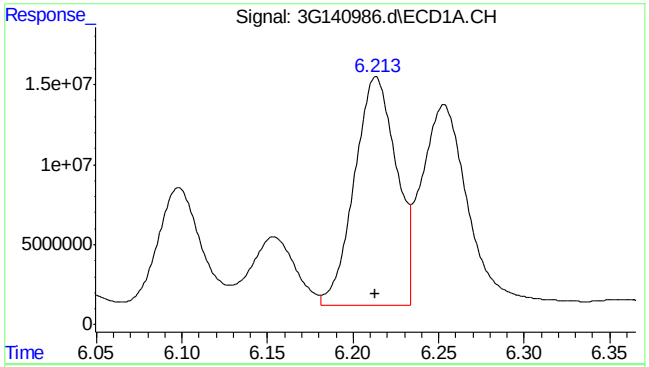
#21 AR1248-E

R.T.: 5.757 min
Delta R.T.: 0.000 min
Response: 147115299
Conc: 1304.09 PPB



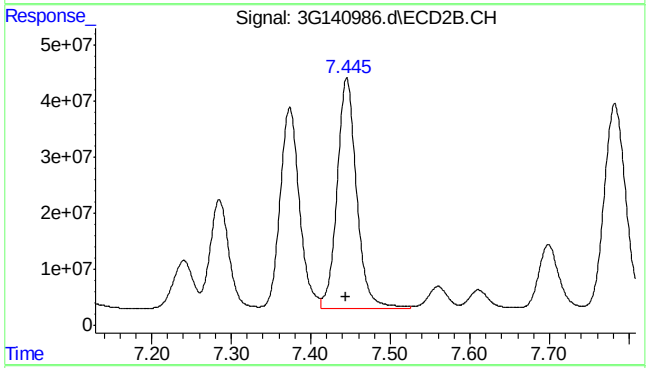
#21 AR1248-E

R.T.: 7.022 min
Delta R.T.: 0.000 min
Response: 490366914
Conc: 2195.97 PPB



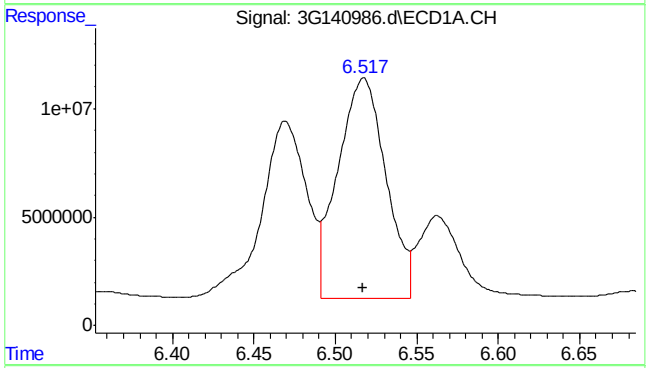
#22 AR1248-F

R.T.: 6.213 min
Delta R.T.: 0.000 min
Response: 243964371
Conc: 1390.49 PPB



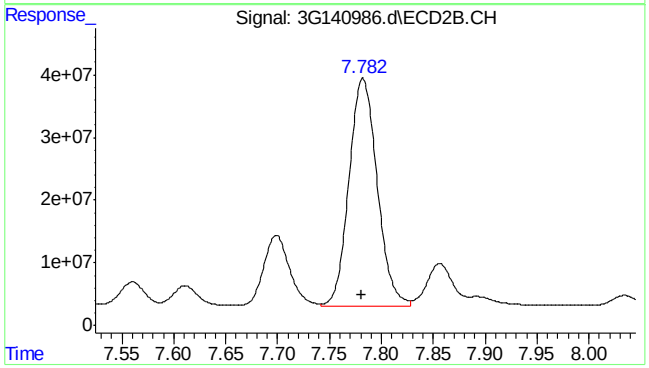
#22 AR1248-F

R.T.: 7.445 min
Delta R.T.: 0.000 min
Response: 697587940
Conc: 2204.70 PPB



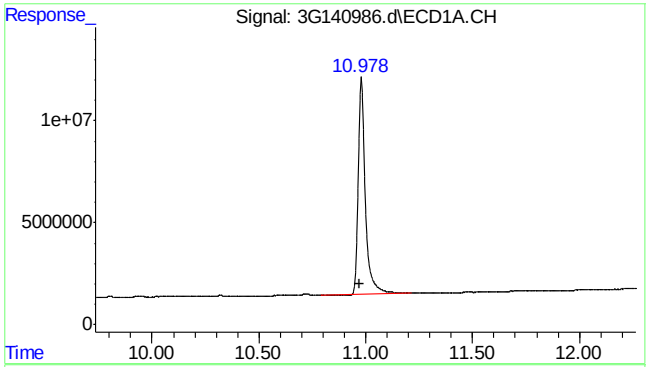
#23 AR1248-G

R.T.: 6.517 min
Delta R.T.: 0.000 min
Response: 209281278
Conc: 1311.49 PPB



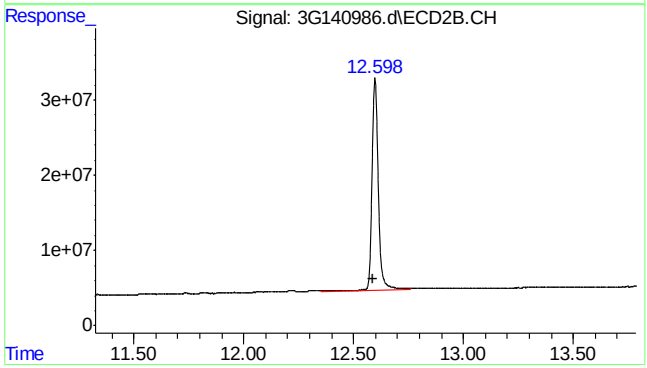
#23 AR1248-G

R.T.: 7.782 min
Delta R.T.: 0.000 min
Response: 684958175
Conc: 2231.01 PPB



#51 Decachlorobiphenyl

R.T.: 10.979 min
Delta R.T.: 0.009 min
Response: 245214144
Conc: 57.44 ppb



#51 Decachlorobiphenyl

R.T.: 12.598 min
Delta R.T.: 0.007 min
Response: 550936242
Conc: 75.71 ppb

9.3.8

6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\1G6859\
Data File : 1g192517.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jan 2024 7:07 am
Operator : rebeccak
Sample : icc6859-25 (Pest Mix)
Misc : op51957,g1g6859,250,,,2,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 29 08:55:05 2024
Quant Method : C:\msdchem\1\methods\1PST6859.M
Quant Title : PEST/PCB
QLast Update : Sun Jan 14 21:56:30 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	1.299	1.256	462.5E6	355.8E6	50.000	50.000
27)	I 1-bromo-2...	1.299	1.256	462.5E6	355.8E6	50.000	50.000
33)	I 1-bromo-2...	1.299	1.256	462.5E6	355.8E6	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.768	1.874	212.2E6	104.9E6	23.407	24.409
	Spiked Amount 40.000	Range 30 - 150		Recovery =		58.52%	61.02%
26)	SA Decachlor...	8.834	10.235f	220.9E6	179.5E6	26.438	21.793
	Spiked Amount 40.000			Recovery =		66.09%	54.48%
	Target Compounds						
3)	Hexachlor...	2.045	2.265	243.3E6	248.0E6	21.882	20.698
4)	A alpha-BHC	2.155	2.368	314.0E6	256.8E6	19.728	21.085
5)	MA gamma-BHC	2.406	2.705	283.6E6	231.5E6	20.655	20.918
6)	MA Heptachlor	2.821	3.177	307.1E6	248.4E6	21.230	21.273
7)	B beta-BHC	2.483	2.789	127.4E6	87131567	21.444	20.661
8)	B delta-BHC	2.642	3.103	254.9E6	216.3E6	19.323	20.263
9)	MB Aldrin	3.114	3.553	276.6E6	232.4E6	20.689	21.118
10)	Alachlor	3.244	3.404	35410333	22009477	23.201	21.704
11)	B Heptachlo...	3.762	4.272	268.7E6	210.6E6	21.111	20.495
12)	B gamma-Chl...	3.914	4.537	268.5E6	216.4E6	21.142	20.810
13)	B alpha-Chl...	4.074	4.741	265.3E6	208.2E6	21.566	20.795
14)	A Endosulfan I	4.240	4.820	262.9E6	203.5E6	21.712	20.552
15)	B 4,4'-DDE	4.188	5.005	218.4E6	198.9E6	19.181	20.965
16)	MA Dieldrin	4.550	5.224	262.1E6	218.1E6	20.435	20.515
17)	MA Endrin	4.861	5.689	247.3E6	201.2E6	20.313	20.356
18)	A 4,4'-DDD	5.006	5.917f	189.4E6	151.2E6	19.337	20.510
19)	B Endosulfa...	5.182	6.037	231.0E6	189.6E6	20.682	20.241
20)	MA 4,4'-DDT	5.405	6.431f	185.2E6	133.2E6	18.729	18.827
21)	B Endrin Al...	5.806	6.598f	172.4E6	129.5E6	21.911	19.144
22)	B Endosulfa...	6.493	7.080f	212.8E6	159.5E6	21.105	19.867
23)	A Methoxychlor	6.208	7.673f	117.5E6	76469683	19.841	18.198
24)	Mirex	6.315	7.926f	202.1E6	127.5E6	23.057	18.821
25)	B Endrin Ke...	6.945	8.011f	248.6E6	188.6E6	20.487	20.246
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

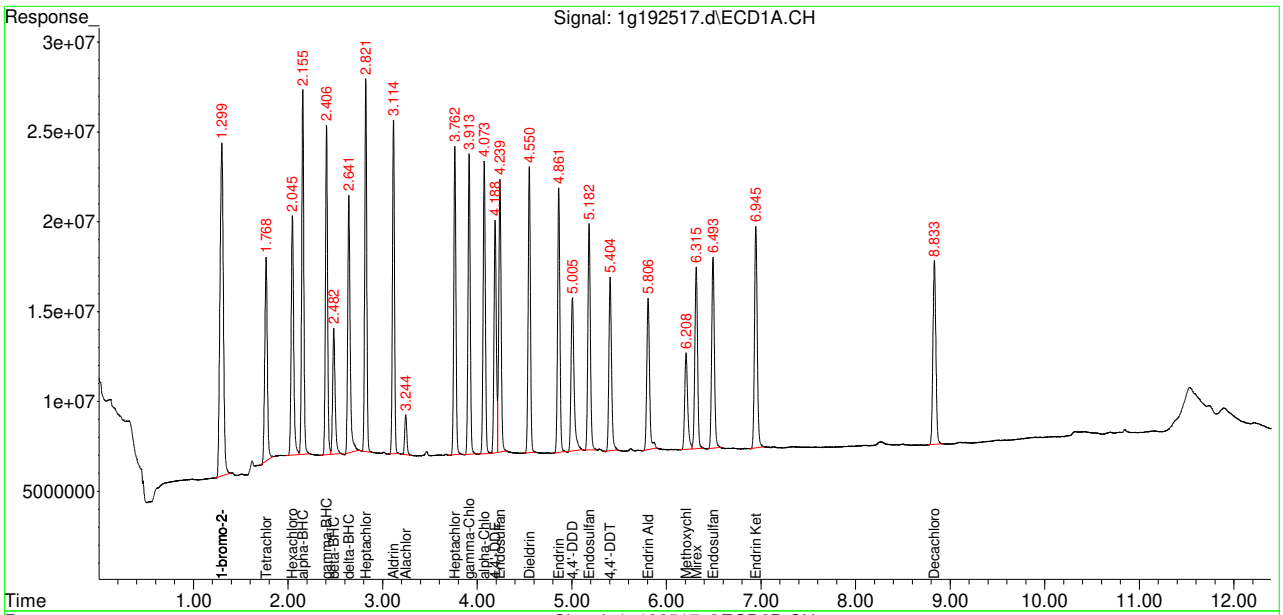
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

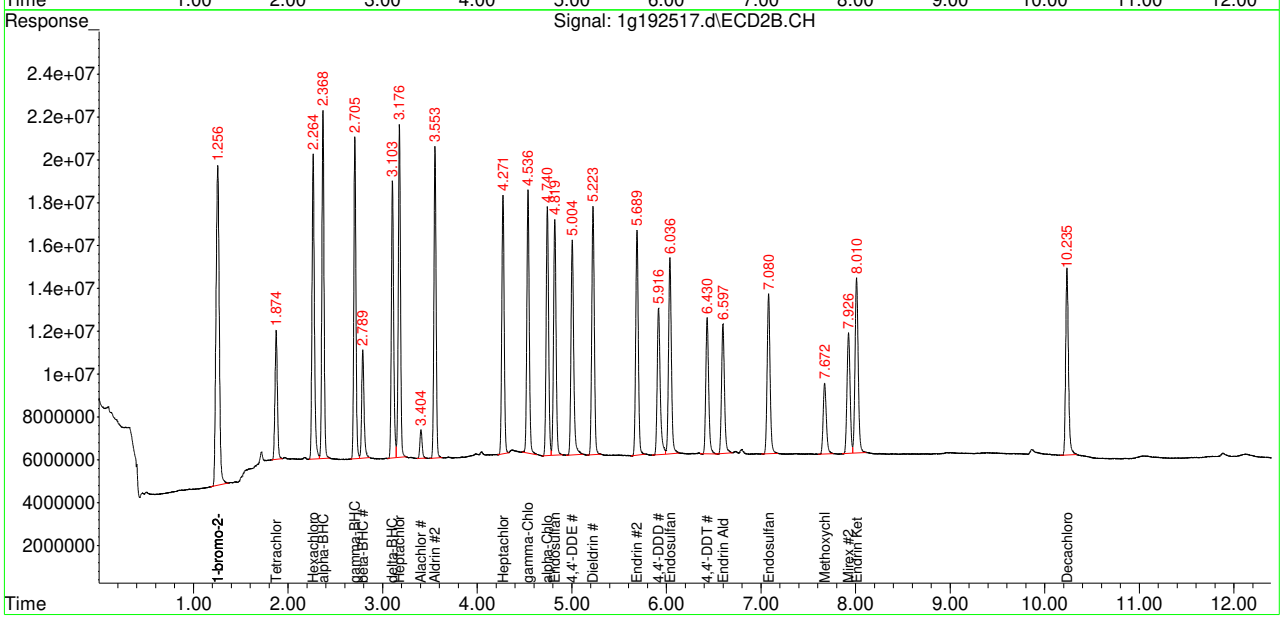
Quantitation Report (QT Reviewed)

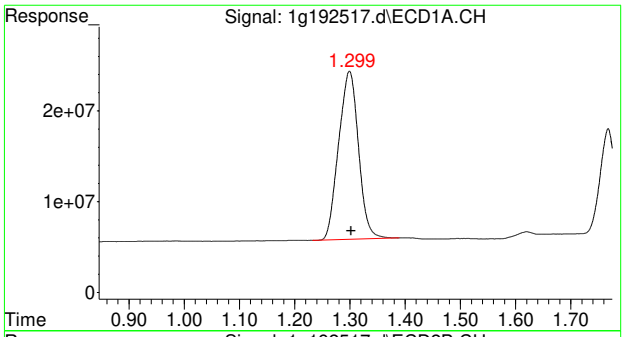
Data Path : C:\msdchem\1\data\1G6859\
Data File : 1g192517.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jan 2024 7:07 am
Operator : rebeccak
Sample : icc6859-25 (Pest Mix)
Misc : op51957,g1g6859,250,,,2,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 29 08:55:05 2024
Quant Method : C:\msdchem\1\methods\1PST6859.M
Quant Title : PEST/PCB
QLast Update : Sun Jan 14 21:56:30 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

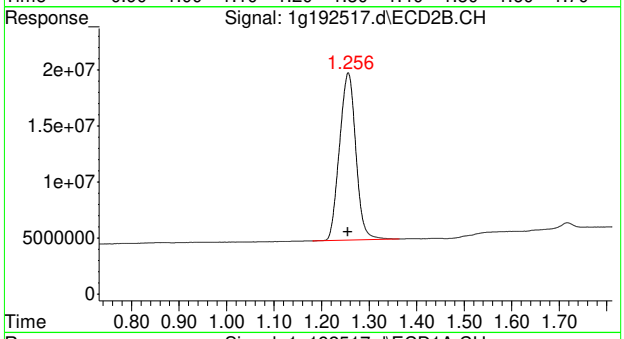






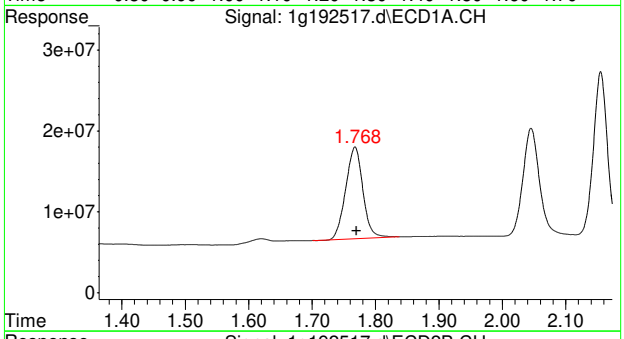
#1 1-bromo-2-nitrobenzene

R.T.: 1.299 min
Delta R.T.: -0.003 min
Response: 462539575
Conc: 50.00 PPB



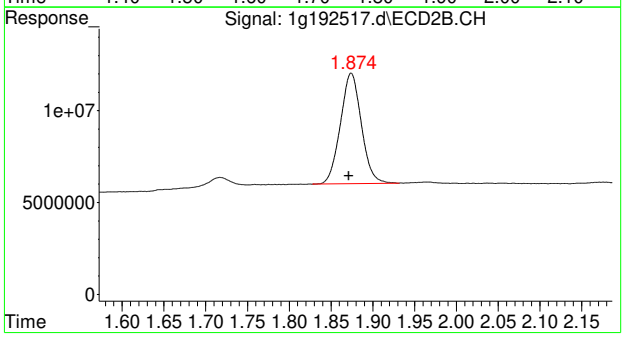
#1 1-bromo-2-nitrobenzene

R.T.: 1.256 min
Delta R.T.: 0.001 min
Response: 355808252
Conc: 50.00 PPB



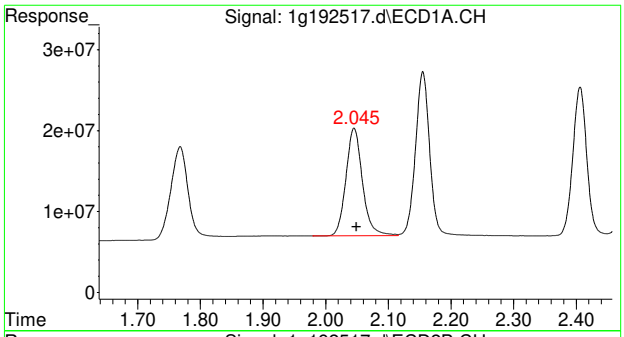
#2 Tetrachloro-m-xylene

R.T.: 1.768 min
Delta R.T.: -0.002 min
Response: 212241883
Conc: 23.41 PPB



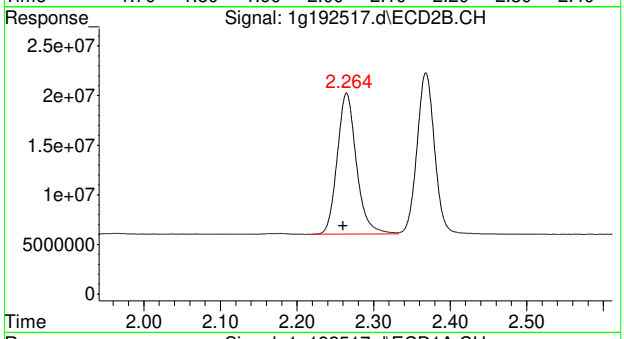
#2 Tetrachloro-m-xylene

R.T.: 1.874 min
Delta R.T.: 0.003 min
Response: 104922995
Conc: 24.41 PPB



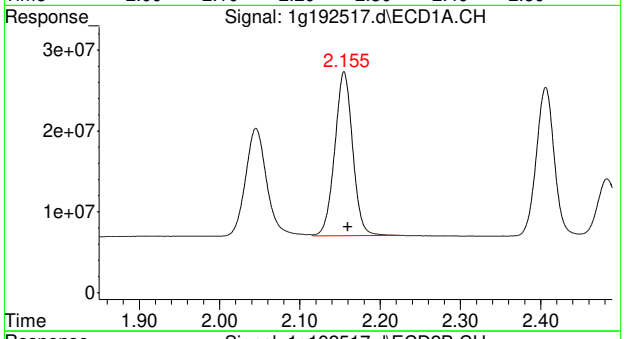
#3 Hexachlorobenzene

R.T.: 2.045 min
Delta R.T.: -0.003 min
Response: 243299341
Conc: 21.88 PPB



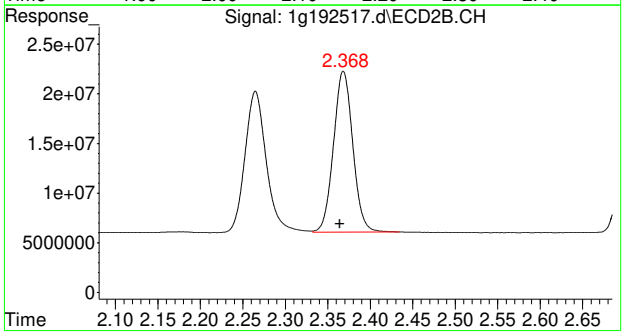
#3 Hexachlorobenzene

R.T.: 2.265 min
Delta R.T.: 0.004 min
Response: 248039769
Conc: 20.70 PPB



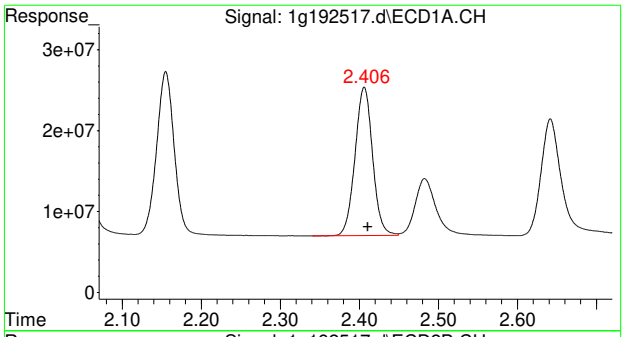
#4 alpha-BHC

R.T.: 2.155 min
Delta R.T.: -0.005 min
Response: 313956181
Conc: 19.73 PPB



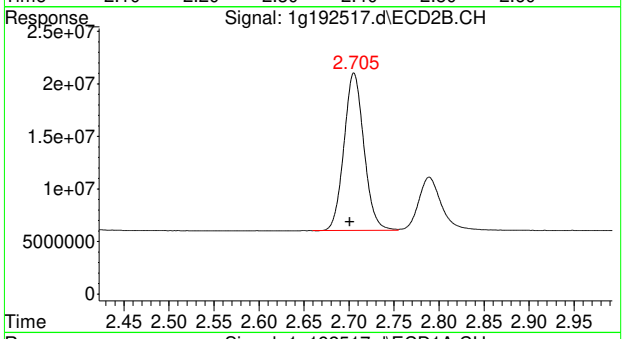
#4 alpha-BHC

R.T.: 2.368 min
Delta R.T.: 0.004 min
Response: 256837759
Conc: 21.09 PPB



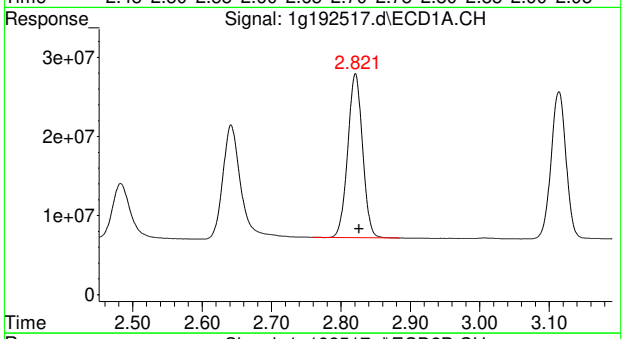
#5 gamma-BHC

R.T.: 2.406 min
Delta R.T.: -0.004 min
Response: 283617205
Conc: 20.65 PPB



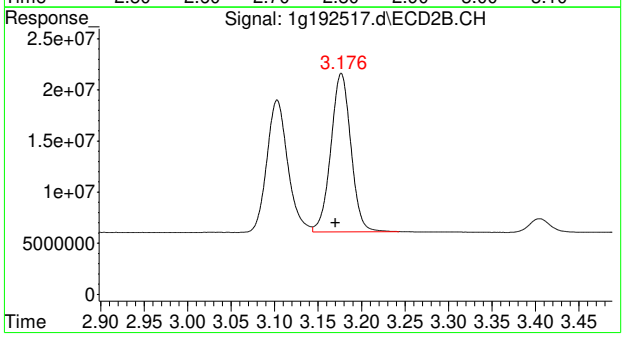
#5 gamma-BHC

R.T.: 2.705 min
Delta R.T.: 0.005 min
Response: 231515591
Conc: 20.92 PPB



#6 Heptachlor

R.T.: 2.821 min
Delta R.T.: -0.005 min
Response: 307145847
Conc: 21.23 PPB

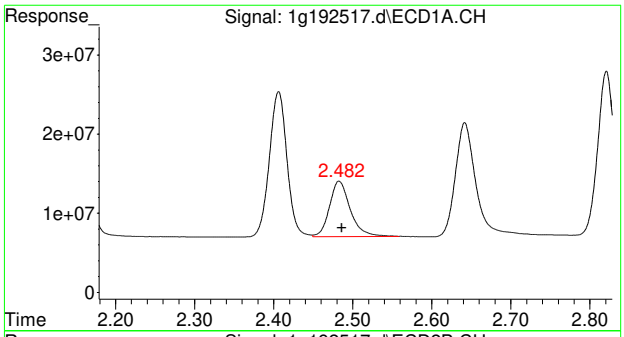


#6 Heptachlor

R.T.: 3.177 min
Delta R.T.: 0.007 min
Response: 248357449
Conc: 21.27 PPB

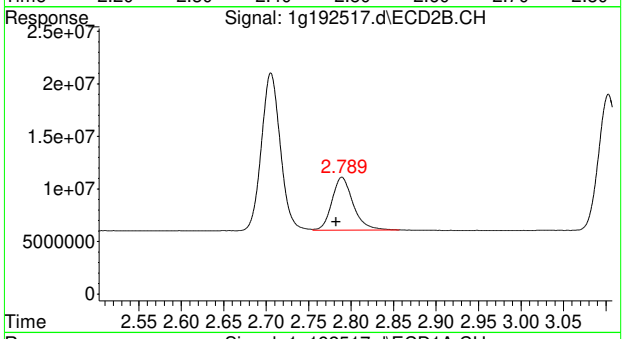
9.3.9

9



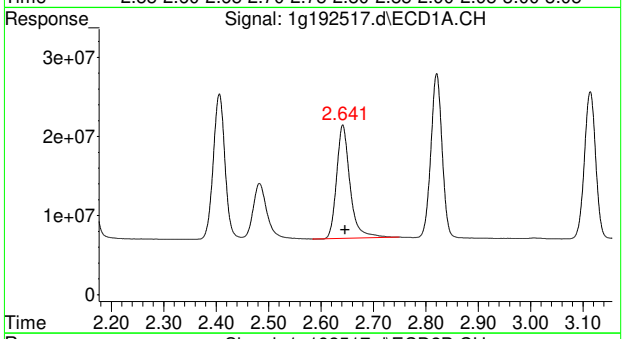
#7 beta-BHC

R.T.: 2.483 min
Delta R.T.: -0.003 min
Response: 127404521
Conc: 21.44 PPB



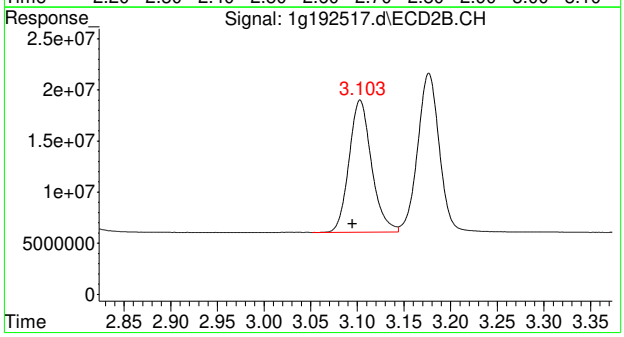
#7 beta-BHC

R.T.: 2.789 min
Delta R.T.: 0.007 min
Response: 87131567
Conc: 20.66 PPB



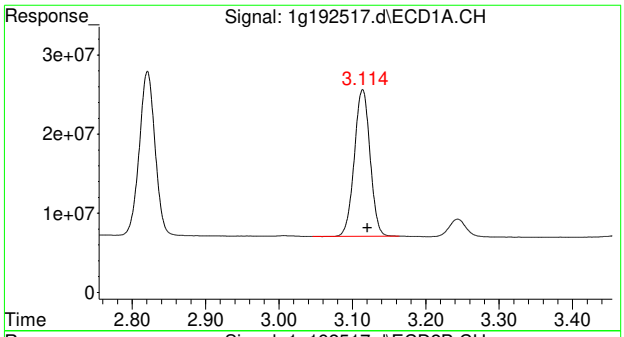
#8 delta-BHC

R.T.: 2.642 min
Delta R.T.: -0.004 min
Response: 254869851
Conc: 19.32 PPB



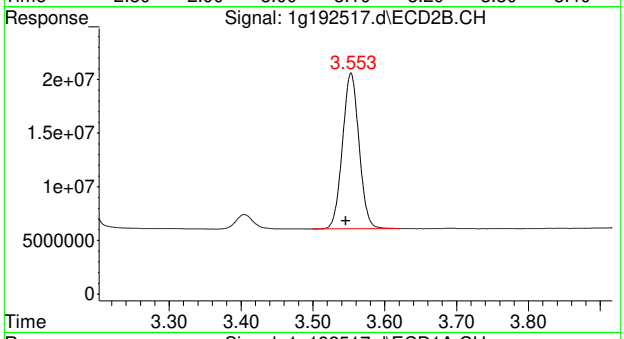
#8 delta-BHC

R.T.: 3.103 min
Delta R.T.: 0.008 min
Response: 216334027
Conc: 20.26 PPB



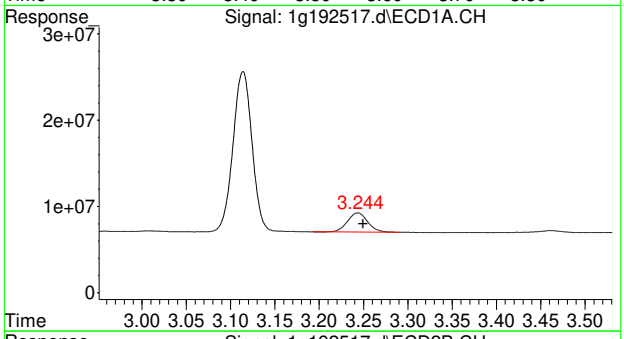
#9 Aldrin

R.T.: 3.114 min
Delta R.T.: -0.006 min
Response: 276584848
Conc: 20.69 PPB



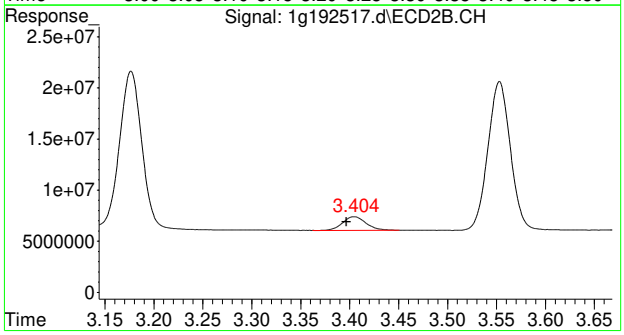
#9 Aldrin

R.T.: 3.553 min
Delta R.T.: 0.007 min
Response: 232382878
Conc: 21.12 PPB



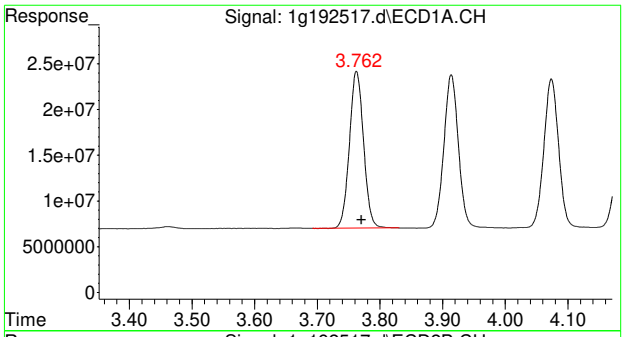
#10 Alachlor

R.T.: 3.244 min
Delta R.T.: -0.006 min
Response: 35410333
Conc: 23.20 PPB



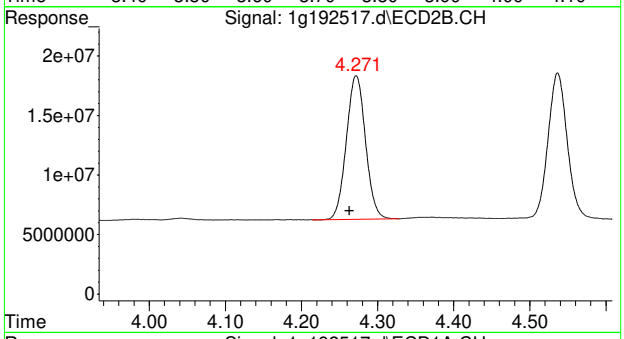
#10 Alachlor

R.T.: 3.404 min
Delta R.T.: 0.008 min
Response: 22009477
Conc: 21.70 PPB



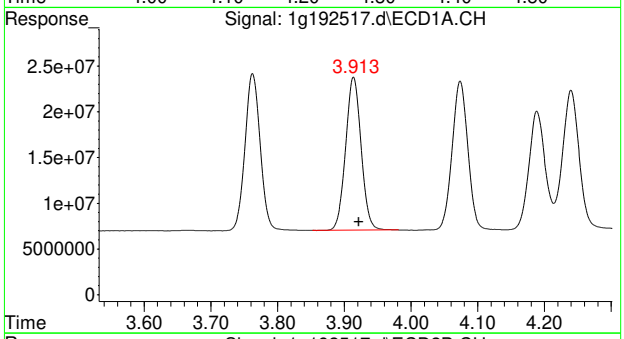
#11 Heptachlor Epoxide

R.T.: 3.762 min
Delta R.T.: -0.008 min
Response: 268672624
Conc: 21.11 PPB



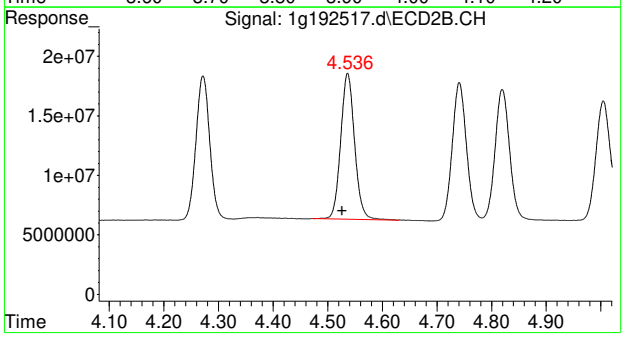
#11 Heptachlor Epoxide

R.T.: 4.272 min
Delta R.T.: 0.009 min
Response: 210607224
Conc: 20.49 PPB



#12 gamma-Chlordane

R.T.: 3.914 min
Delta R.T.: -0.008 min
Response: 268466033
Conc: 21.14 PPB

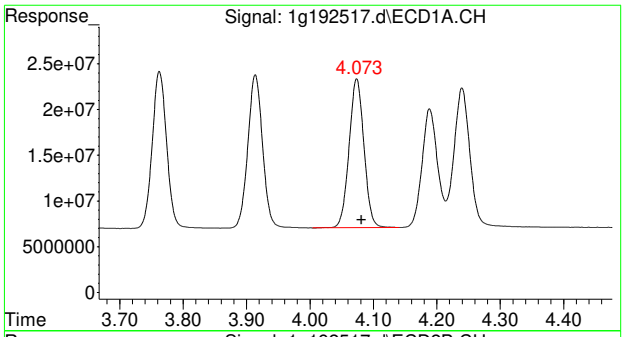


#12 gamma-Chlordane

R.T.: 4.537 min
Delta R.T.: 0.010 min
Response: 216378325
Conc: 20.81 PPB

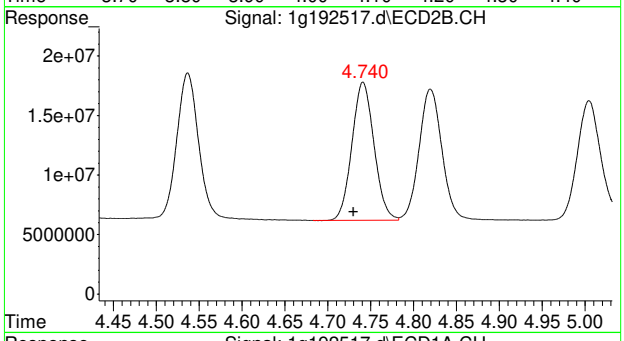
9.3.9

9



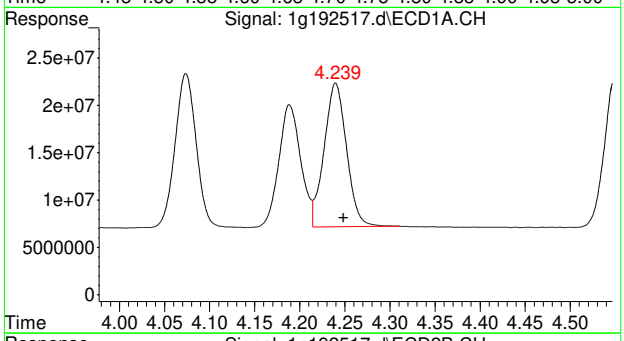
#13 alpha-Chlordane

R.T.: 4.074 min
Delta R.T.: -0.007 min
Response: 265330485
Conc: 21.57 PPB



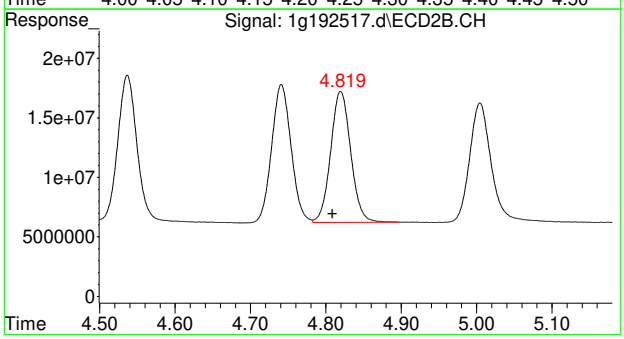
#13 alpha-Chlordane

R.T.: 4.741 min
Delta R.T.: 0.011 min
Response: 208154572
Conc: 20.79 PPB



#14 Endosulfan I

R.T.: 4.240 min
Delta R.T.: -0.009 min
Response: 262862441
Conc: 21.71 PPB

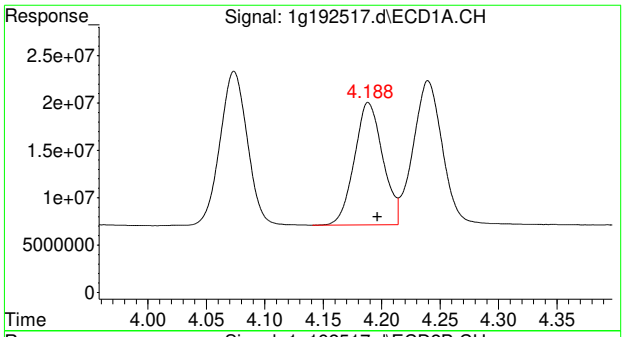


#14 Endosulfan I

R.T.: 4.820 min
Delta R.T.: 0.011 min
Response: 203495953
Conc: 20.55 PPB

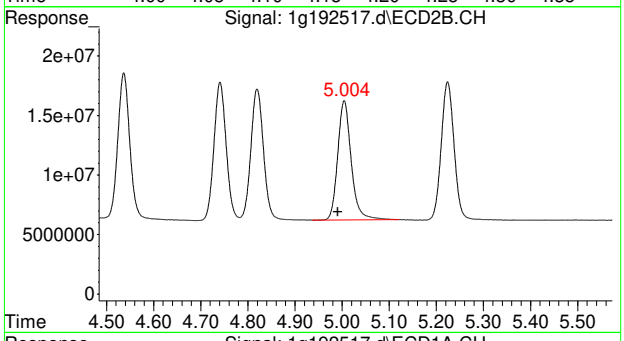
9.3.9

9



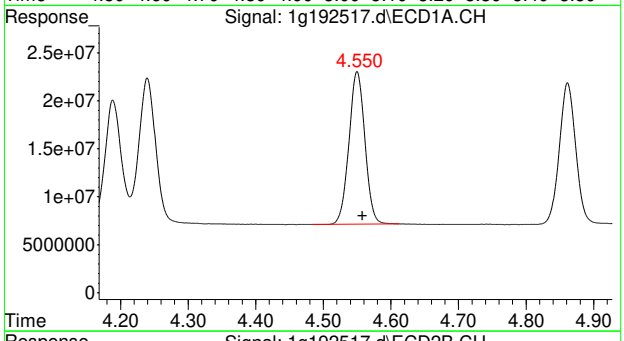
#15 4,4'-DDE

R.T.: 4.188 min
Delta R.T.: -0.008 min
Response: 218352271
Conc: 19.18 PPB



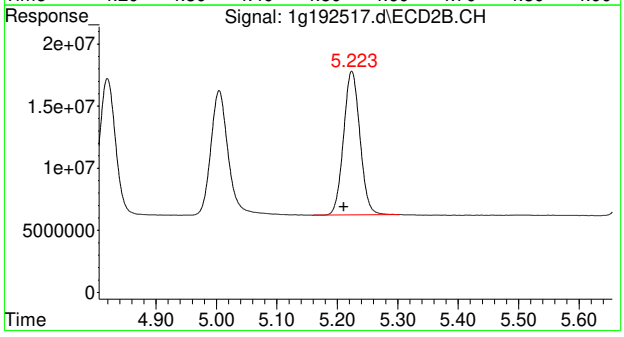
#15 4,4'-DDE

R.T.: 5.005 min
Delta R.T.: 0.014 min
Response: 198918656
Conc: 20.97 PPB



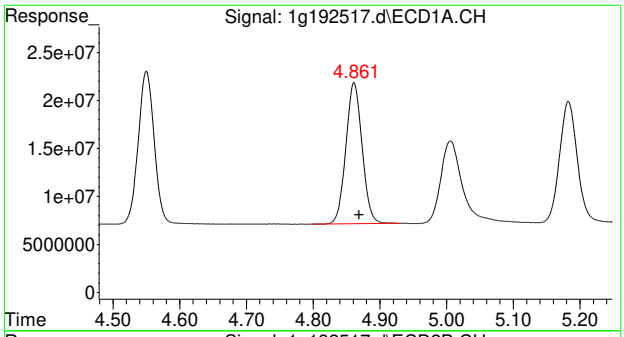
#16 Dieldrin

R.T.: 4.550 min
Delta R.T.: -0.008 min
Response: 262100820
Conc: 20.43 PPB



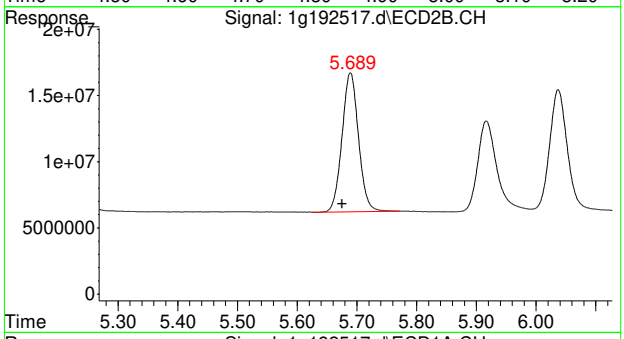
#16 Dieldrin

R.T.: 5.224 min
Delta R.T.: 0.013 min
Response: 218149120
Conc: 20.51 PPB



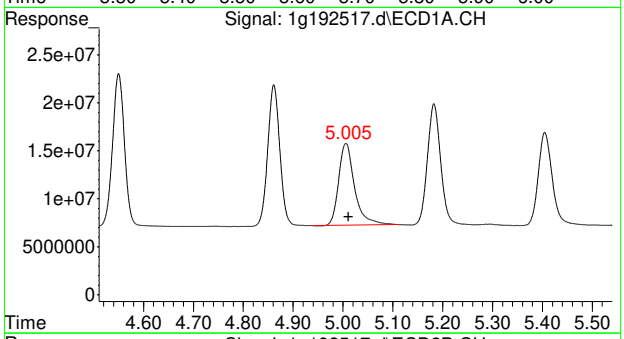
#17 Endrin

R.T.: 4.861 min
Delta R.T.: -0.008 min
Response: 247280873
Conc: 20.31 PPB



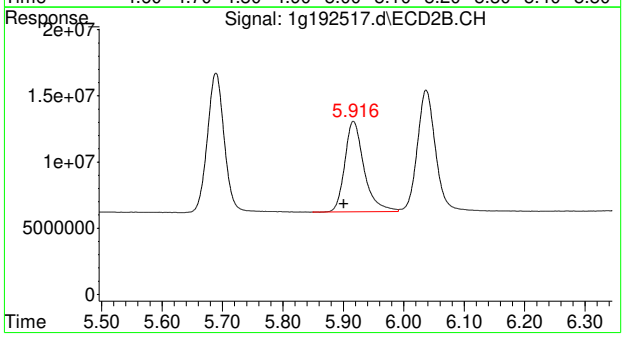
#17 Endrin

R.T.: 5.689 min
Delta R.T.: 0.014 min
Response: 201158150
Conc: 20.36 PPB



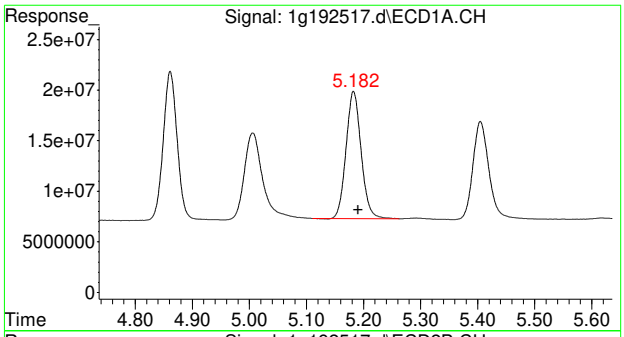
#18 4,4'-DDD

R.T.: 5.006 min
Delta R.T.: -0.005 min
Response: 189415177
Conc: 19.34 PPB



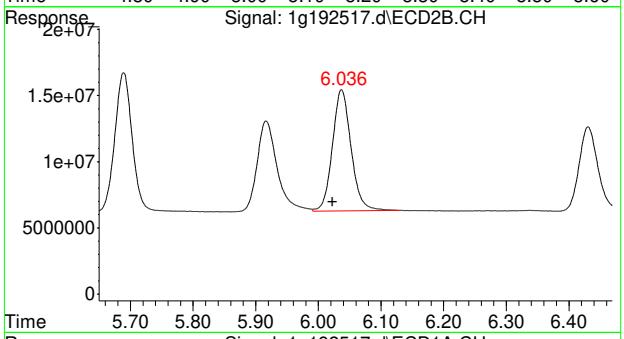
#18 4,4'-DDD

R.T.: 5.917 min
Delta R.T.: 0.016 min
Response: 151249188
Conc: 20.51 PPB



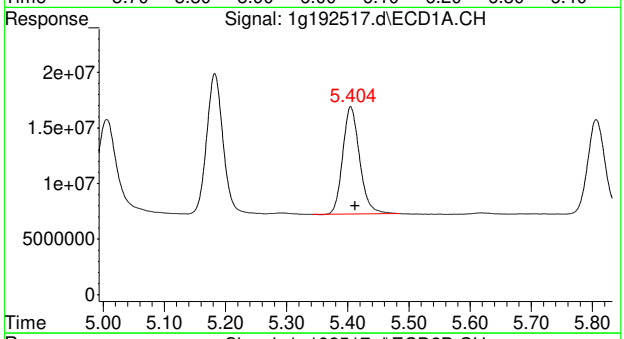
#19 Endosulfan II

R.T.: 5.182 min
Delta R.T.: -0.008 min
Response: 231038239
Conc: 20.68 PPB



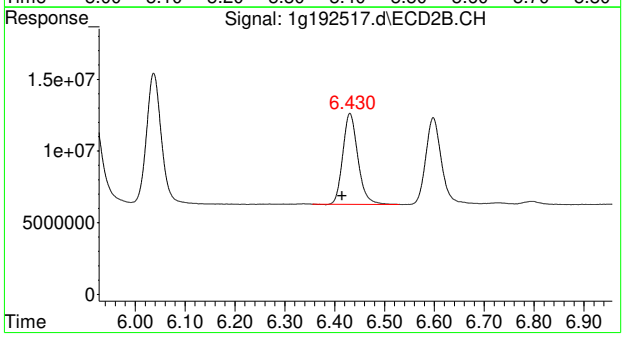
#19 Endosulfan II

R.T.: 6.037 min
Delta R.T.: 0.015 min
Response: 189646666
Conc: 20.24 PPB



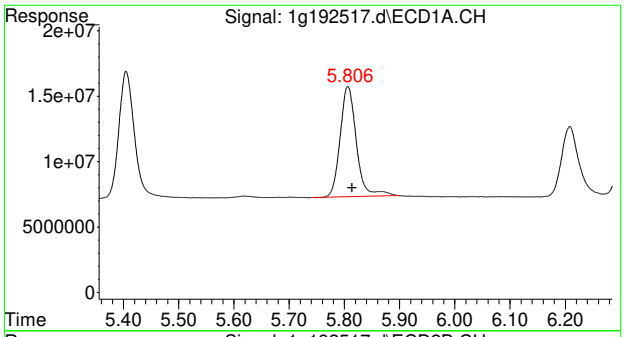
#20 4,4'-DDT

R.T.: 5.405 min
Delta R.T.: -0.007 min
Response: 185202740
Conc: 18.73 PPB



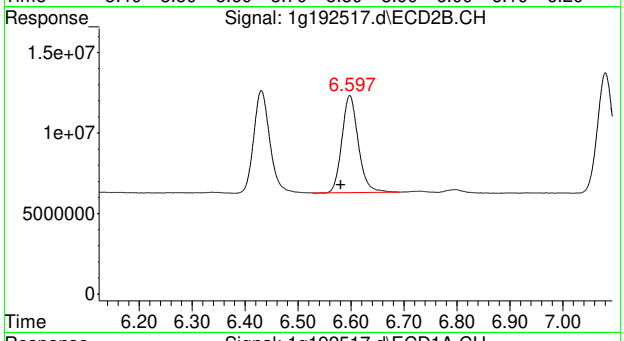
#20 4,4'-DDT

R.T.: 6.431 min
Delta R.T.: 0.016 min
Response: 133162070
Conc: 18.83 PPB



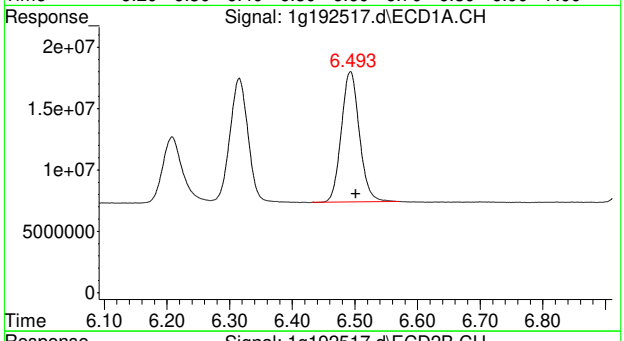
#21 Endrin Aldehyde

R.T.: 5.806 min
Delta R.T.: -0.008 min
Response: 172436761
Conc: 21.91 PPB



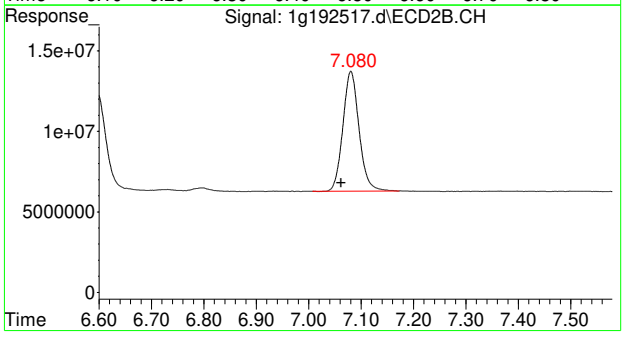
#21 Endrin Aldehyde

R.T.: 6.598 min
Delta R.T.: 0.017 min
Response: 129472053
Conc: 19.14 PPB



#22 Endosulfan Sulfate

R.T.: 6.493 min
Delta R.T.: -0.009 min
Response: 212824057
Conc: 21.10 PPB

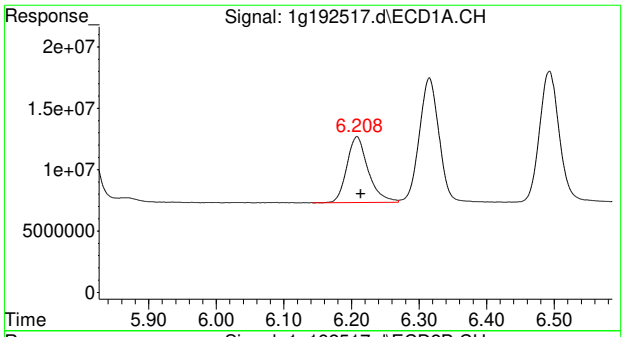


#22 Endosulfan Sulfate

R.T.: 7.080 min
Delta R.T.: 0.019 min
Response: 159459543
Conc: 19.87 PPB

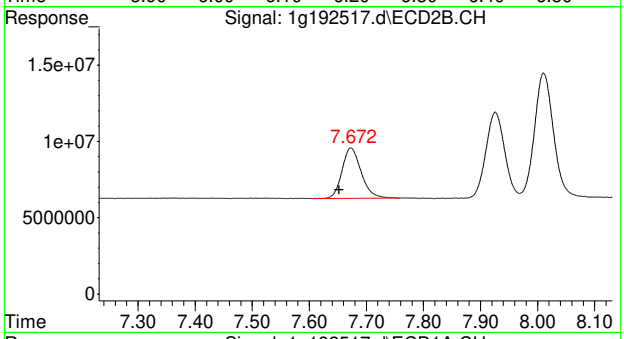
9.3.9

9



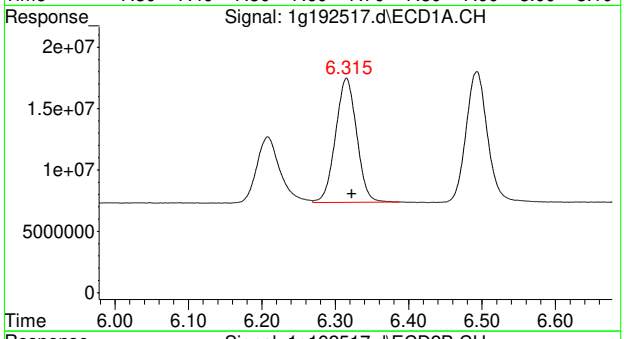
#23 Methoxychlor

R.T.: 6.208 min
Delta R.T.: -0.005 min
Response: 117465590
Conc: 19.84 PPB



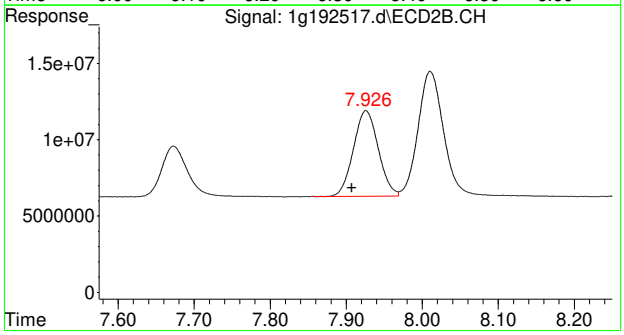
#23 Methoxychlor

R.T.: 7.673 min
Delta R.T.: 0.021 min
Response: 76469683
Conc: 18.20 PPB



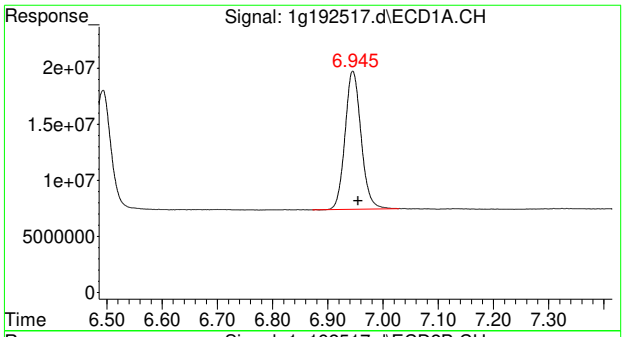
#24 Mirex

R.T.: 6.315 min
Delta R.T.: -0.007 min
Response: 202097591
Conc: 23.06 PPB



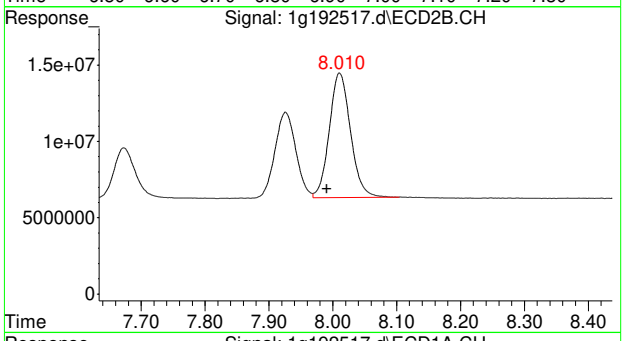
#24 Mirex

R.T.: 7.926 min
Delta R.T.: 0.019 min
Response: 127498387
Conc: 18.82 PPB



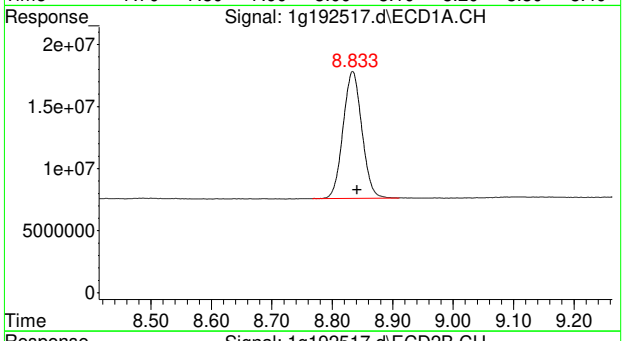
#25 Endrin Ketone

R.T.: 6.945 min
Delta R.T.: -0.009 min
Response: 248639456
Conc: 20.49 PPB



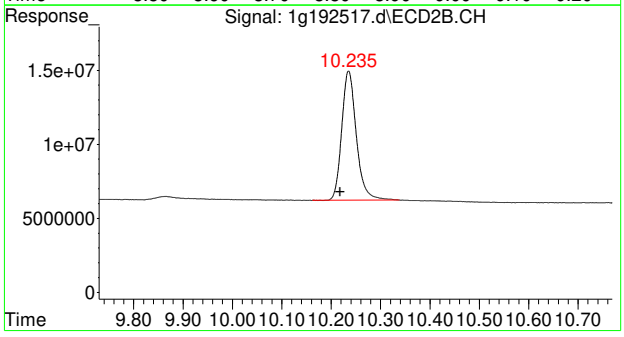
#25 Endrin Ketone

R.T.: 8.011 min
Delta R.T.: 0.020 min
Response: 188557465
Conc: 20.25 PPB



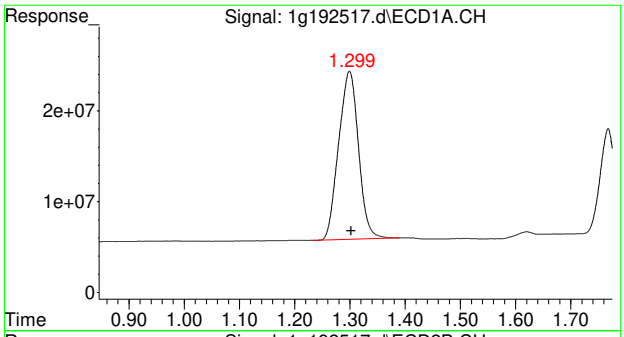
#26 Decachlorobiphenyl

R.T.: 8.834 min
Delta R.T.: -0.007 min
Response: 220931520
Conc: 26.44 PPB



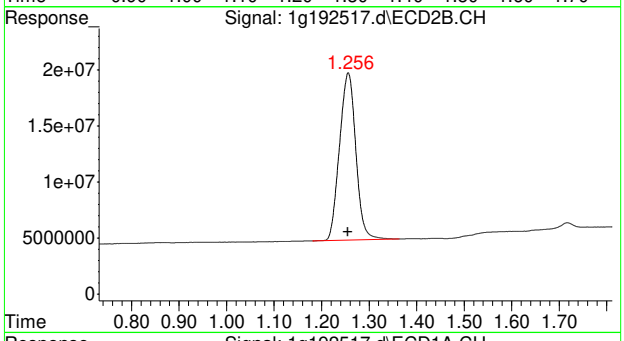
#26 Decachlorobiphenyl

R.T.: 10.235 min
Delta R.T.: 0.017 min
Response: 179529109
Conc: 21.79 PPB



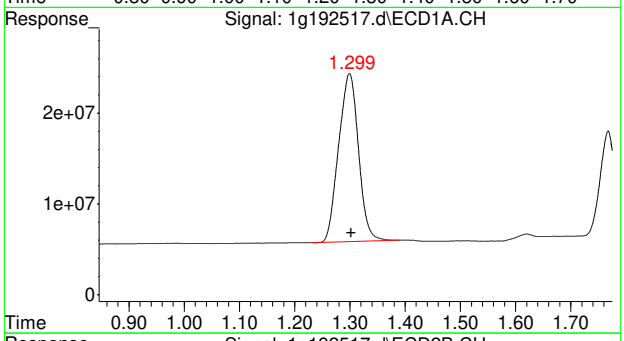
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.299 min
Delta R.T.: -0.003 min
Response: 462539575
Conc: 50.00 PPB



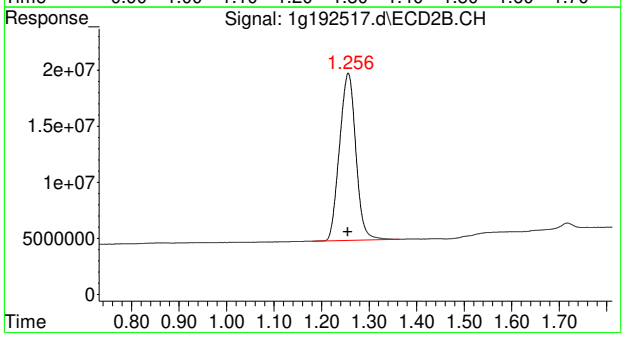
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.256 min
Delta R.T.: 0.001 min
Response: 355808252
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.299 min
Delta R.T.: -0.003 min
Response: 462539575
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.256 min
Delta R.T.: 0.001 min
Response: 355808252
Conc: 50.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 01/30/24 10:42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\1G6859\
Data File : 1g192521.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jan 2024 8:12 am
Operator : rebeccak
Sample : ic6859-500 (Chlordane)
Misc : op51957,g1g6859,250,,,2,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 29 09:28:35 2024
Quant Method : C:\msdchem\1\methods\1PST6859.M
Quant Title : PEST/PCB
QLast Update : Mon Jan 29 09:04:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.300	1.257	470.1E6	358.8E6	50.000	50.000
27) I 1-bromo-2...	1.300	1.257	470.1E6	358.8E6	50.000	50.000
33) I 1-bromo-2...	1.300	1.257	470.1E6	358.8E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	1.768	1.875	479.6E6	280.4E6	52.039	64.698
Spiked Amount 40.000	Range 30 - 150		Recovery = 130.10%		161.74%#	
26) SA Decachlor...	8.833	10.235	453.9E6	385.5E6	53.446	46.406
Spiked Amount 40.000			Recovery = 133.62%		116.02%	
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
34) Chlordane...	2.821	3.177	314.0E6	244.6E6	521.617	491.890
35) Chlordane...	3.249	3.727	189.3E6	128.5E6	555.231	496.477
36) Chlordane...	3.915	4.537	613.4E6	486.0E6	486.929	484.165
37) Chlordane...	4.065	4.741	967.7E6	768.9E6	486.195	468.562m
38) Chlordane...	5.087	6.110	139.1E6	112.1E6	468.970	471.847

SemiQuant Compounds - Not Calibrated on this Instrument

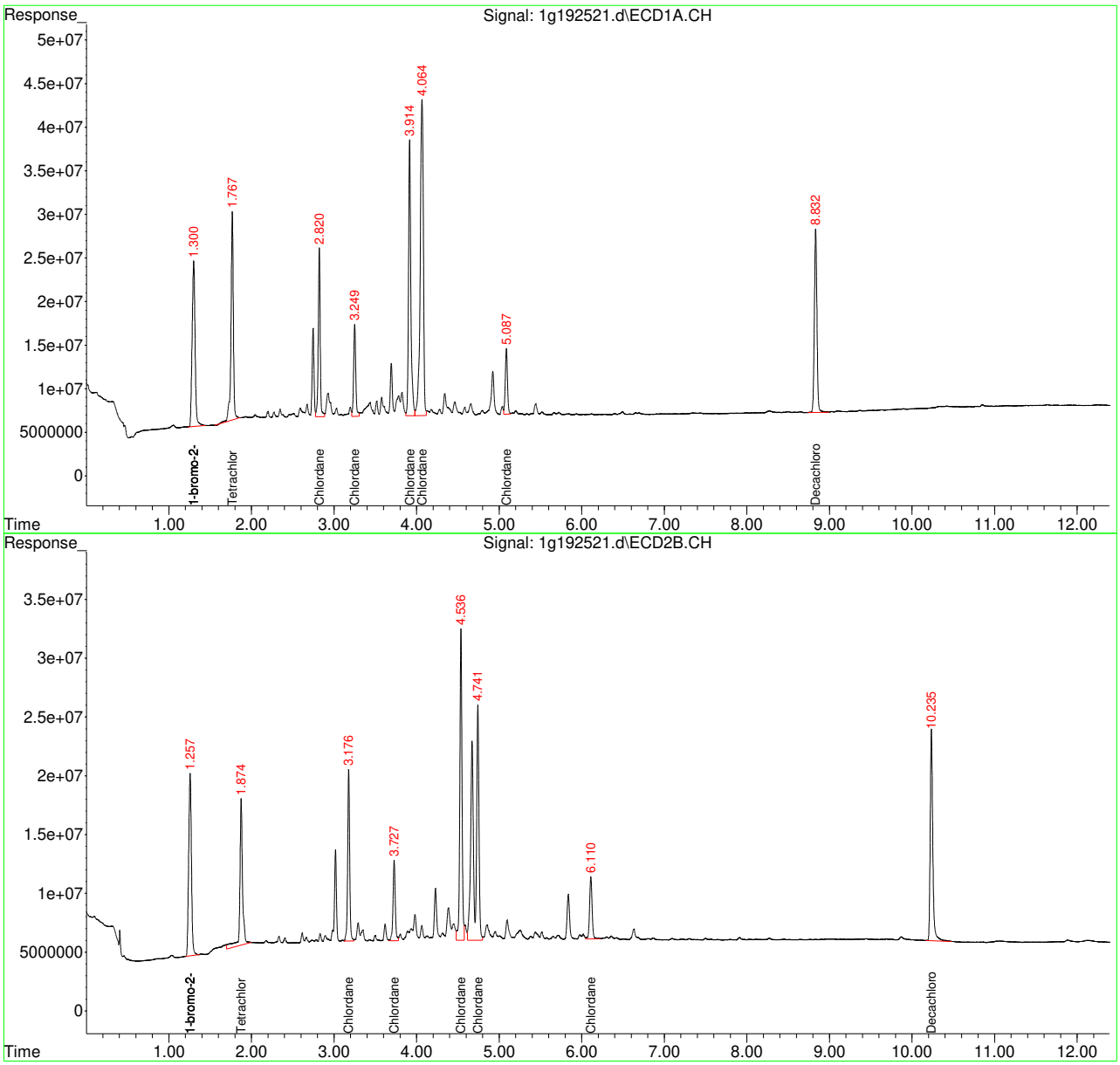
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

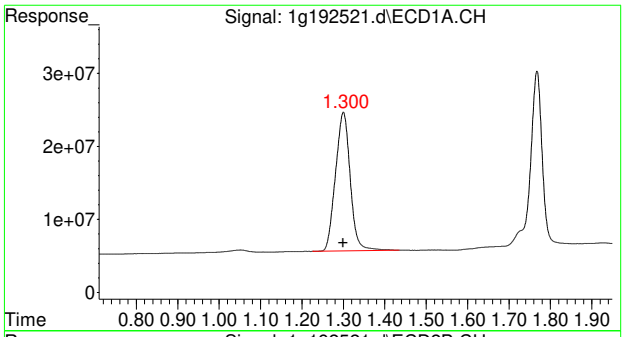
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\1G6859\
Data File : 1g192521.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jan 2024 8:12 am
Operator : rebeccak
Sample : ic6859-500 (Chlordane)
Misc : op51957,g1g6859,250,,,2,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 29 09:28:35 2024
Quant Method : C:\msdchem\1\methods\1PST6859.M
Quant Title : PEST/PCB
QLast Update : Mon Jan 29 09:04:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

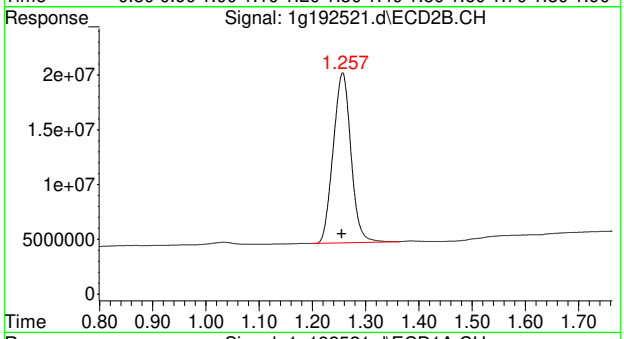
Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





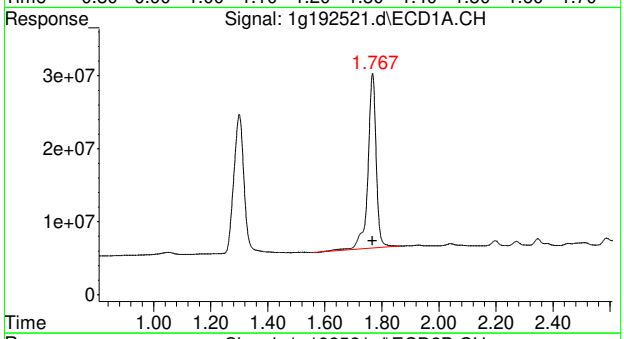
#1 1-bromo-2-nitrobenzene

R.T.: 1.300 min
Delta R.T.: 0.001 min
Response: 470128949
Conc: 50.00 PPB



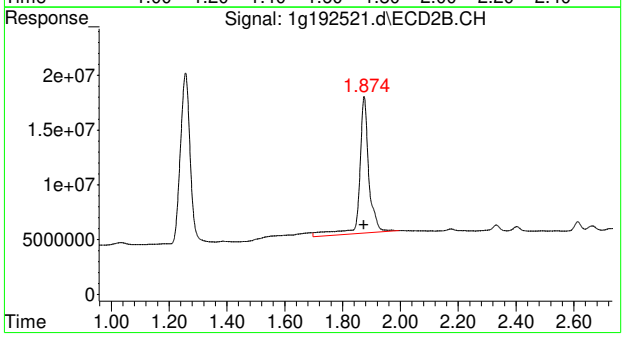
#1 1-bromo-2-nitrobenzene

R.T.: 1.257 min
Delta R.T.: 0.002 min
Response: 358782352
Conc: 50.00 PPB



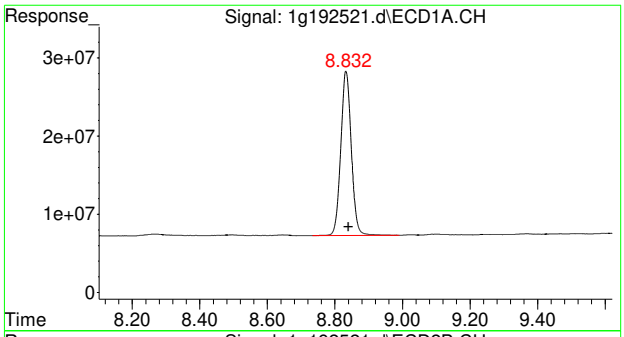
#2 Tetrachloro-m-xylene

R.T.: 1.768 min
Delta R.T.: 0.000 min
Response: 479590507
Conc: 52.04 PPB



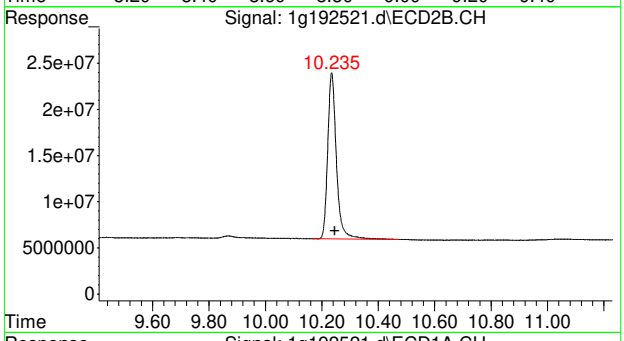
#2 Tetrachloro-m-xylene

R.T.: 1.875 min
Delta R.T.: 0.002 min
Response: 280433182
Conc: 64.70 PPB



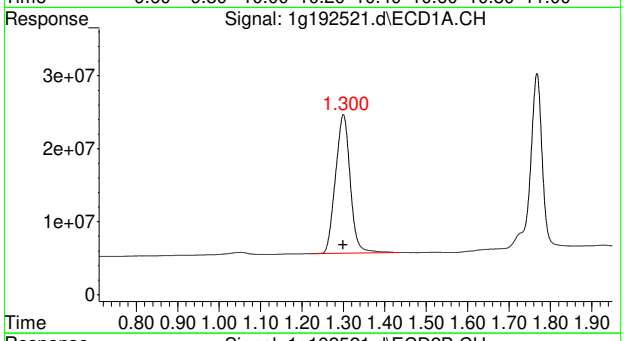
#26 Decachlorobiphenyl

R.T.: 8.833 min
Delta R.T.: -0.006 min
Response: 453949727
Conc: 53.45 PPB



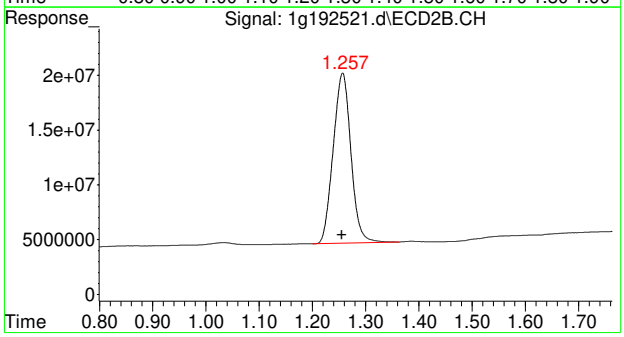
#26 Decachlorobiphenyl

R.T.: 10.235 min
Delta R.T.: -0.011 min
Response: 385490093
Conc: 46.41 PPB



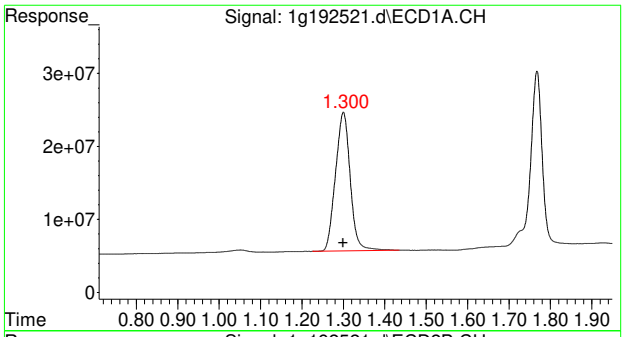
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.300 min
Delta R.T.: 0.001 min
Response: 470128949
Conc: 50.00 PPB



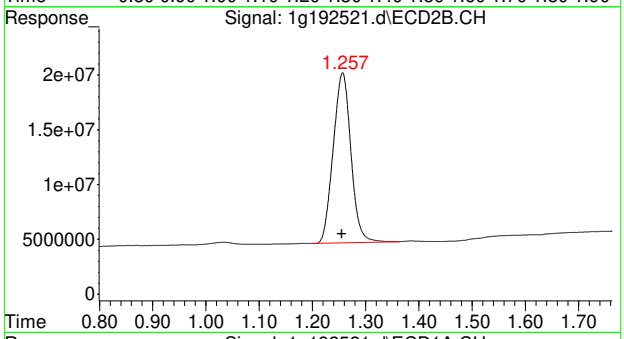
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.257 min
Delta R.T.: 0.002 min
Response: 358782352
Conc: 50.00 PPB



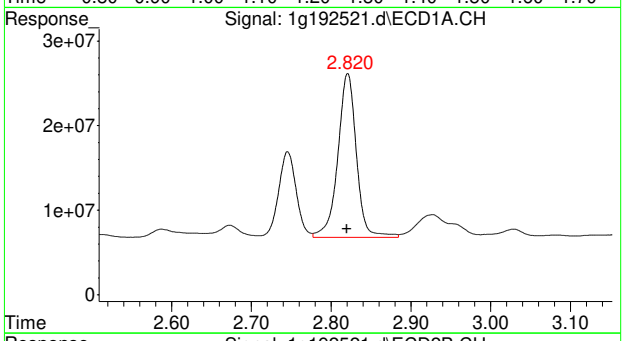
#33 1-bromo-2-nitrobenzeneB

R.T.: 1.300 min
Delta R.T.: 0.001 min
Response: 470128949
Conc: 50.00 PPB



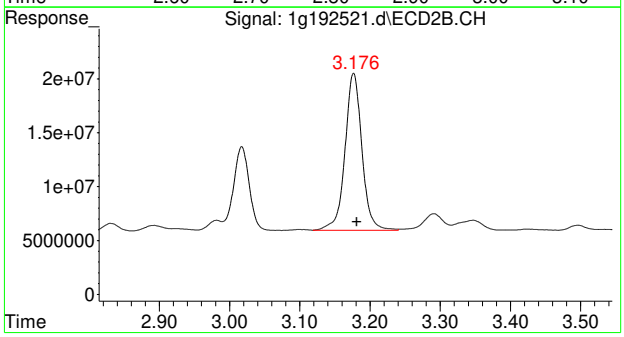
#33 1-bromo-2-nitrobenzeneB

R.T.: 1.257 min
Delta R.T.: 0.002 min
Response: 358782352
Conc: 50.00 PPB



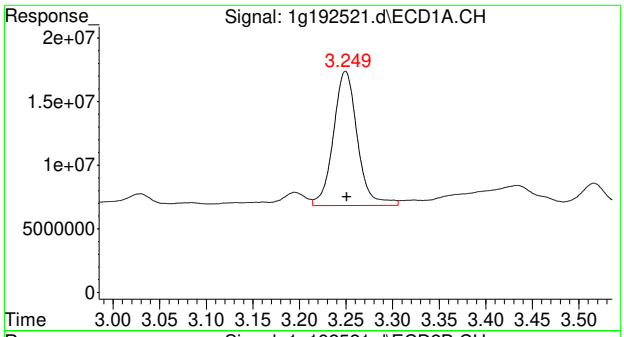
#34 Chlordane {A}

R.T.: 2.821 min
Delta R.T.: 0.000 min
Response: 313959623
Conc: 521.62 PPB



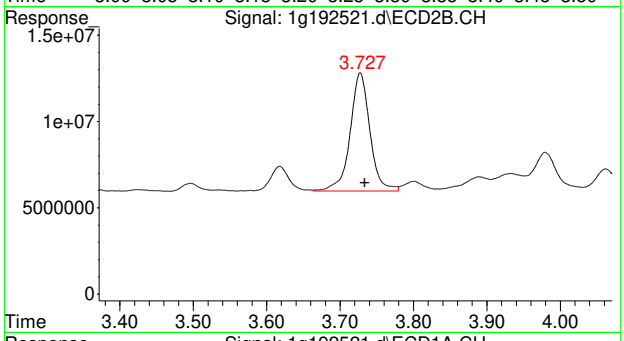
#34 Chlordane {A}

R.T.: 3.177 min
Delta R.T.: -0.004 min
Response: 244553281
Conc: 491.89 PPB



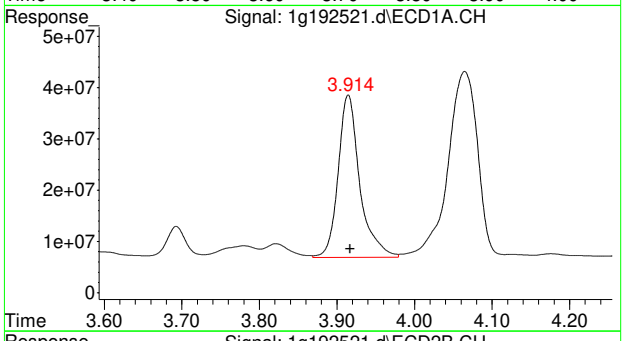
#35 Chlordane {B}

R.T.: 3.249 min
Delta R.T.: -0.001 min
Response: 189280092
Conc: 555.23 PPB



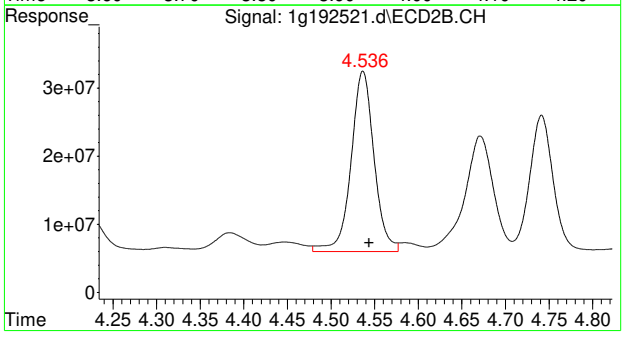
#35 Chlordane {B}

R.T.: 3.727 min
Delta R.T.: -0.006 min
Response: 128492574
Conc: 496.48 PPB



#36 Chlordane {C}

R.T.: 3.915 min
Delta R.T.: -0.002 min
Response: 613414269
Conc: 486.93 PPB

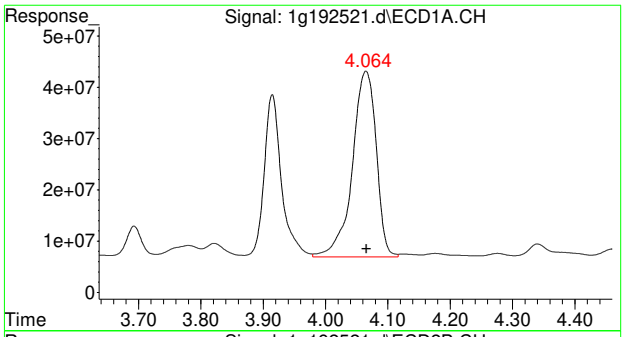


#36 Chlordane {C}

R.T.: 4.537 min
Delta R.T.: -0.007 min
Response: 486042452
Conc: 484.16 PPB

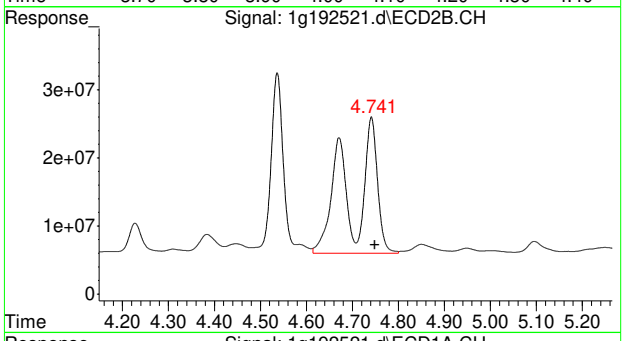
9.3.10

9



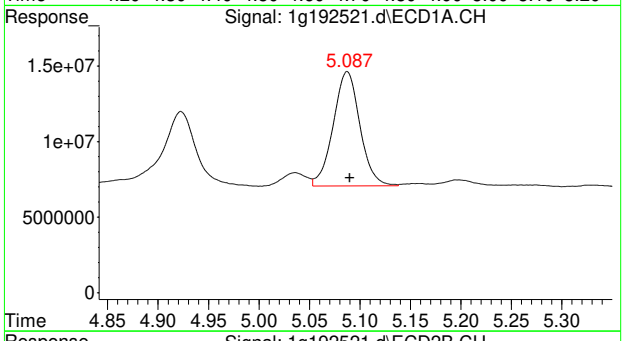
#37 Chlordane {D}

R.T.: 4.065 min
Delta R.T.: 0.000 min
Response: 967669106
Conc: 486.19 PPB



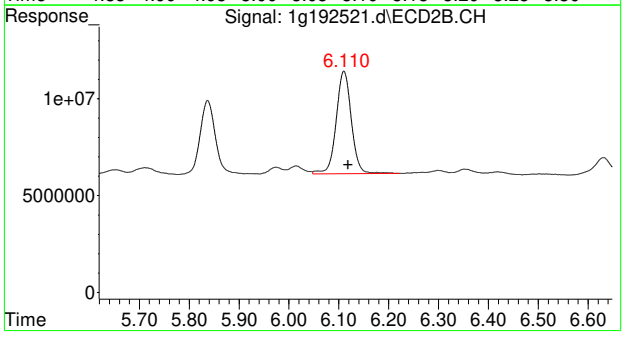
#37 Chlordane {D}

R.T.: 4.741 min
Delta R.T.: -0.007 min
Response: 768931431
Conc: 468.56 PPB m



#38 Chlordane {E}

R.T.: 5.087 min
Delta R.T.: -0.002 min
Response: 139111937
Conc: 468.97 PPB



#38 Chlordane {E}

R.T.: 6.110 min
Delta R.T.: -0.008 min
Response: 112125062
Conc: 471.85 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
01/30/24 10:42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\1G6859\
Data File : 1g192522.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jan 2024 8:28 am
Operator : rebeccak
Sample : ic6859-500 (Toxaphene)
Misc : op51957,g1g6859,250,,,2,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 29 09:41:07 2024
Quant Method : C:\msdchem\1\methods\1PST6859.M
Quant Title : PEST/PCB
QLast Update : Mon Jan 29 09:04:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	1.300	1.257	491.9E6	377.1E6	50.000	50.000
27)	I 1-bromo-2...	1.300	1.257	491.9E6	377.1E6	50.000	50.000
33)	I 1-bromo-2...	1.300	1.257	491.9E6	377.1E6	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.767	1.875	460.9E6	292.3E6	47.797	64.156 #
	Spiked Amount 40.000	Range 30 - 150		Recovery = 119.49%		160.39%#	
26)	SA Decachlor...	8.839	10.249	470.5E6	380.2E6	52.946	43.539
	Spiked Amount 40.000			Recovery = 132.37%		108.85%	
	Target Compounds						
28)	L8 Toxaphene{A}	4.053	5.380	31090748	23654973	558.299	536.109
29)	L8 Toxaphene{B}	4.680	6.183	43153741	103.0E6	550.621m	541.222
30)	L8 Toxaphene{C}	5.352	6.497	84200725	45975306	520.260m	545.176
31)	L8 Toxaphene{D}	5.687	6.629	86923322	83913342	517.664m	537.110m
32)	L8 Toxaphene{E}	6.339	7.507	112.3E6	72108738	522.357m	486.979m
	Sum Toxaphene			357.7E6	328.7E6	2669.200	2646.595
Average	Toxaphene					533.840	529.319

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

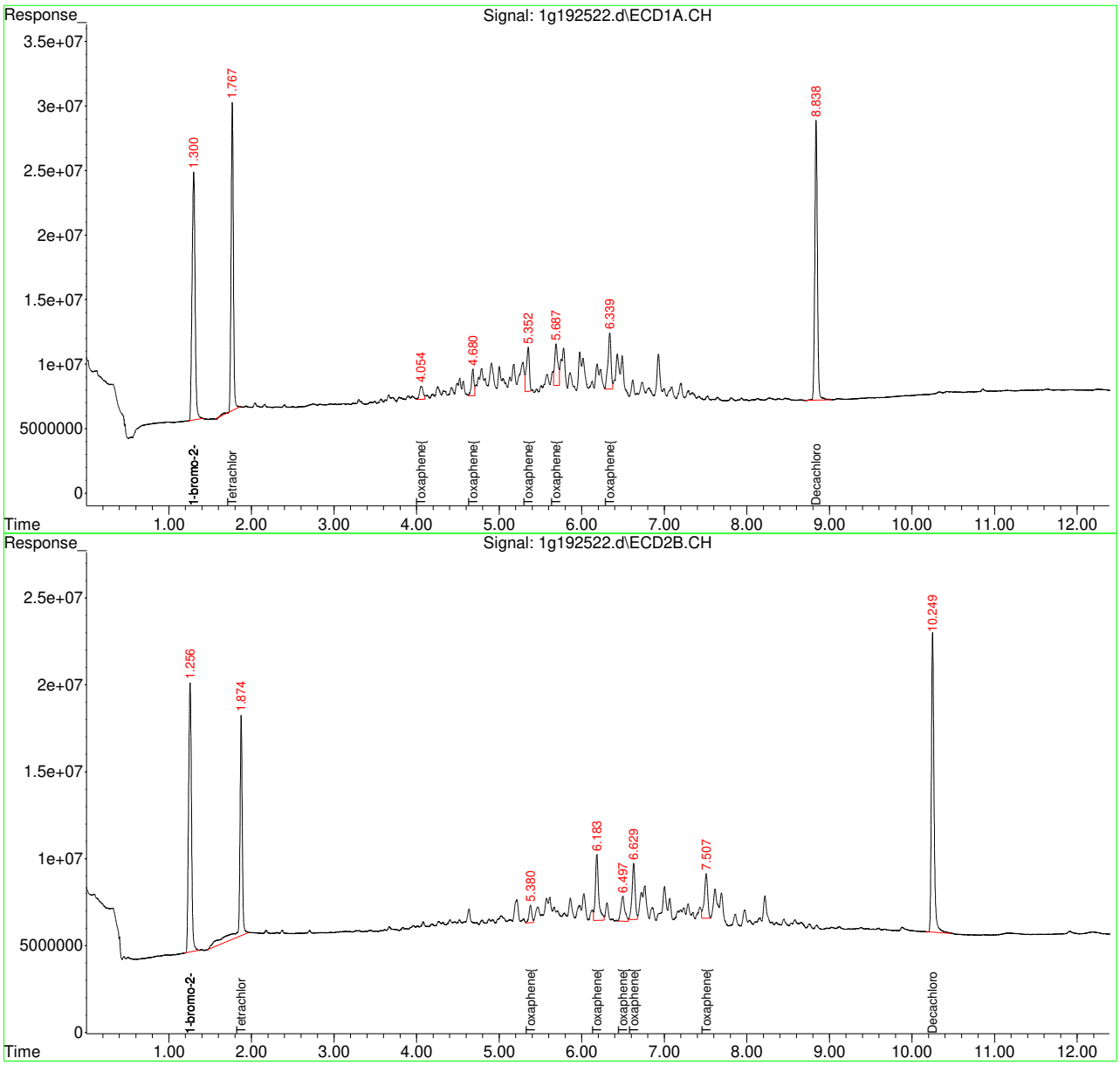
9.3.11
9

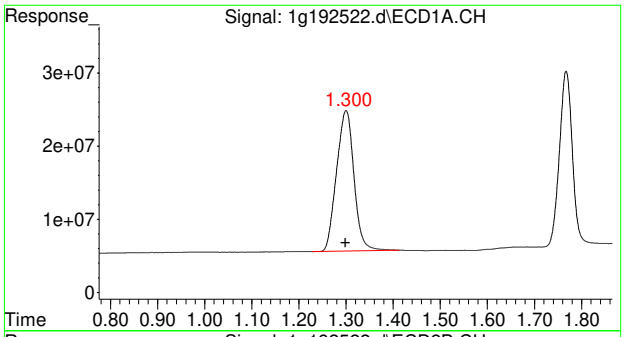
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\1G6859\
Data File : 1g192522.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jan 2024 8:28 am
Operator : rebeccak
Sample : ic6859-500 (Toxaphene)
Misc : op51957,g1g6859,250,,,2,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 29 09:41:07 2024
Quant Method : C:\msdchem\1\methods\1PST6859.M
Quant Title : PEST/PCB
QLast Update : Mon Jan 29 09:04:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

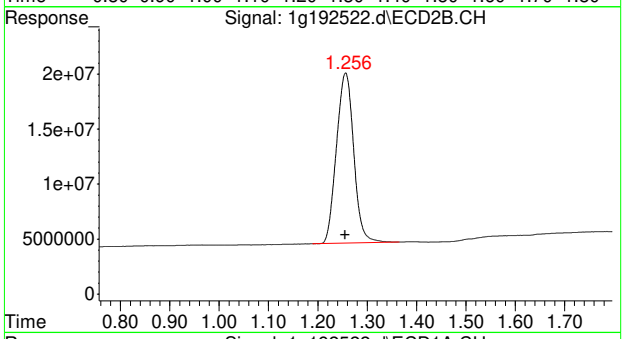
Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





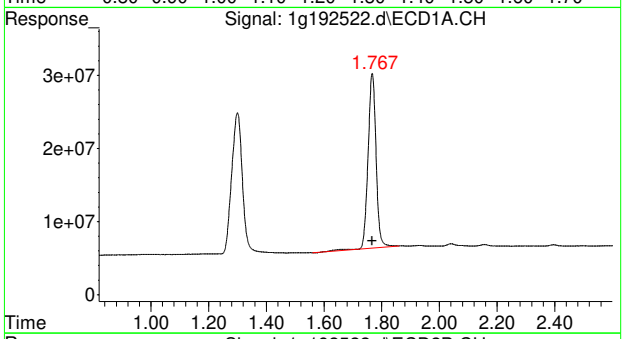
#1 1-bromo-2-nitrobenzene

R.T.: 1.300 min
Delta R.T.: 0.001 min
Response: 491922790
Conc: 50.00 PPB



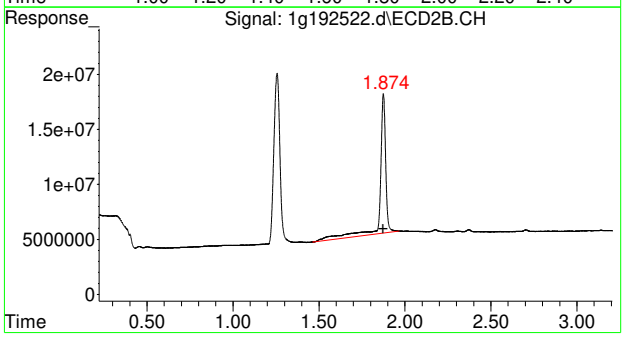
#1 1-bromo-2-nitrobenzene

R.T.: 1.257 min
Delta R.T.: 0.001 min
Response: 377132966
Conc: 50.00 PPB



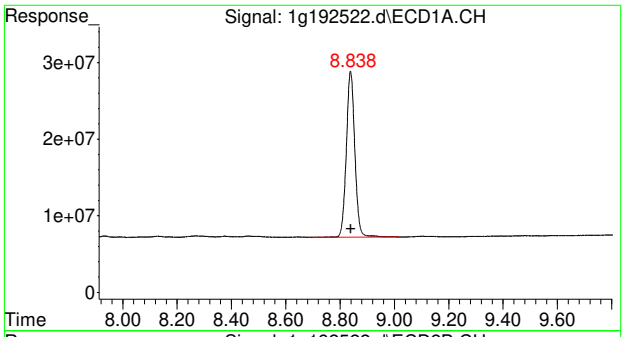
#2 Tetrachloro-m-xylene

R.T.: 1.767 min
Delta R.T.: 0.000 min
Response: 460924633
Conc: 47.80 PPB



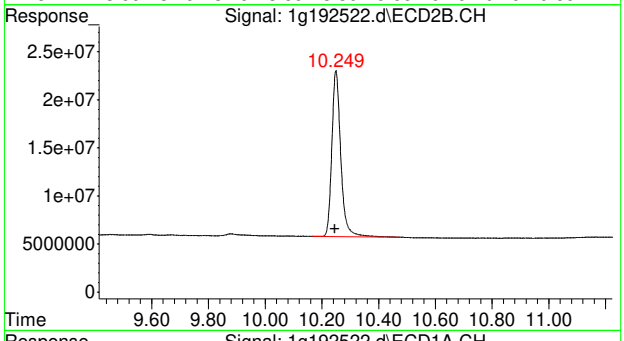
#2 Tetrachloro-m-xylene

R.T.: 1.875 min
Delta R.T.: 0.002 min
Response: 292309434
Conc: 64.16 PPB



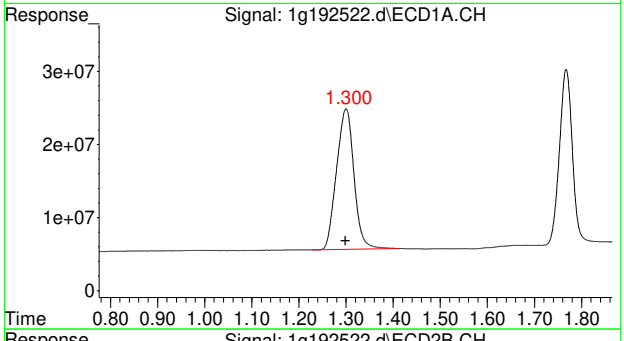
#26 Decachlorobiphenyl

R.T.: 8.839 min
Delta R.T.: 0.000 min
Response: 470549007
Conc: 52.95 PPB



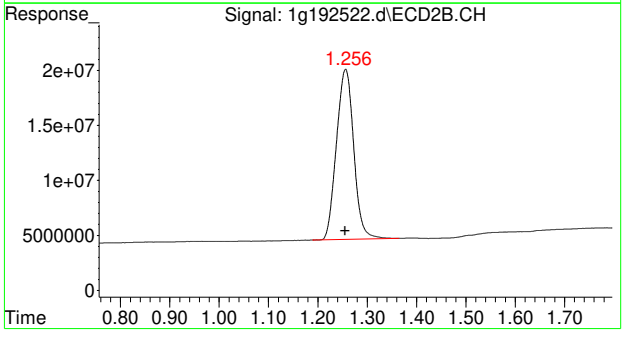
#26 Decachlorobiphenyl

R.T.: 10.249 min
Delta R.T.: 0.004 min
Response: 380168528
Conc: 43.54 PPB



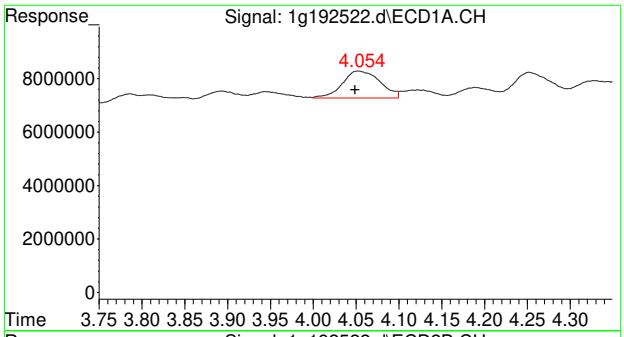
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.300 min
Delta R.T.: 0.001 min
Response: 491922790
Conc: 50.00 PPB



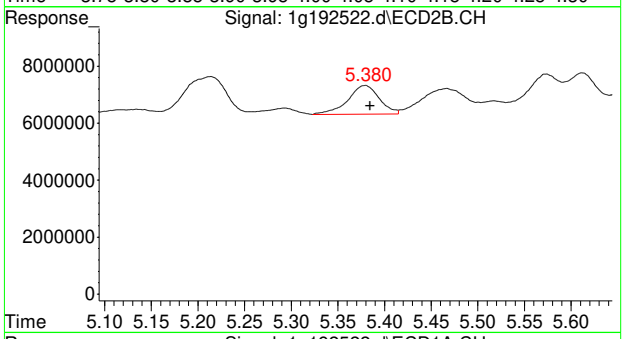
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.257 min
Delta R.T.: 0.001 min
Response: 377132966
Conc: 50.00 PPB



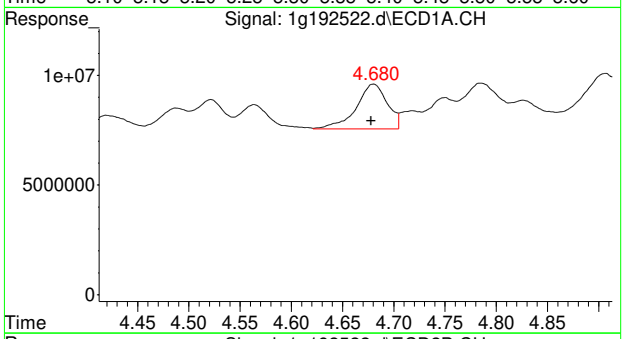
#28 Toxaphene{A}

R.T.: 4.053 min
Delta R.T.: 0.004 min
Response: 31090748
Conc: 558.30 PPB



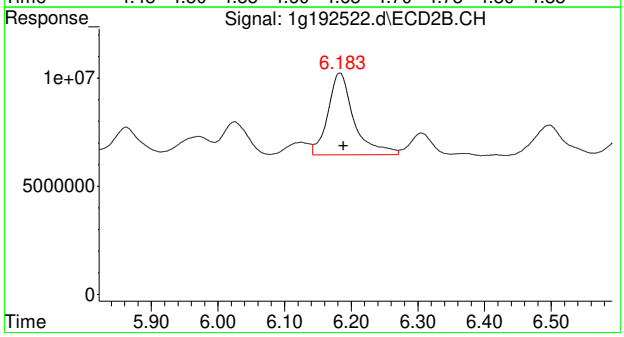
#28 Toxaphene{A}

R.T.: 5.380 min
Delta R.T.: -0.004 min
Response: 23654973
Conc: 536.11 PPB



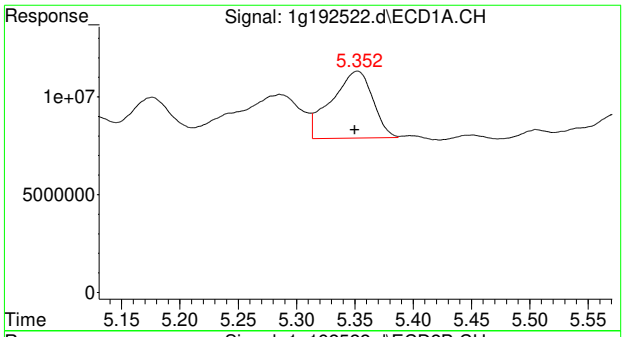
#29 Toxaphene{B}

R.T.: 4.680 min
Delta R.T.: 0.002 min
Response: 43153741
Conc: 550.62 PPB m



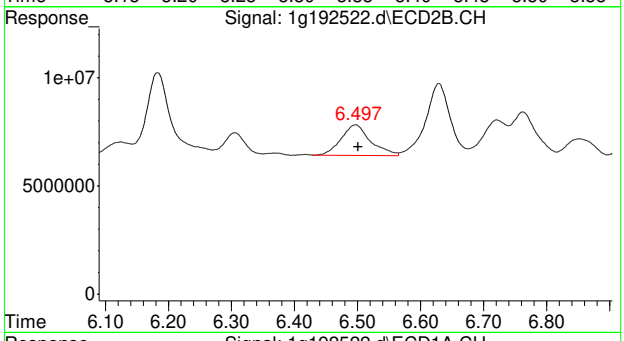
#29 Toxaphene{B}

R.T.: 6.183 min
Delta R.T.: -0.005 min
Response: 103000178
Conc: 541.22 PPB



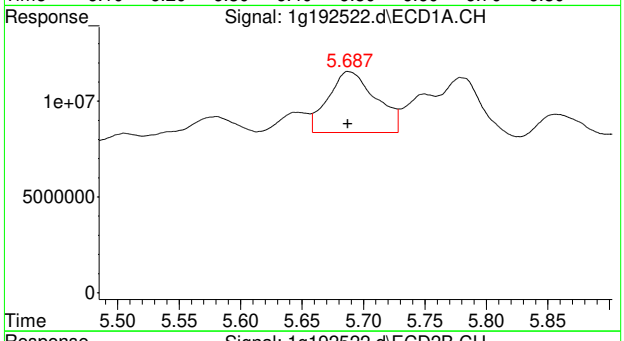
#30 Toxaphene{C}

R.T.: 5.352 min
Delta R.T.: 0.002 min
Response: 84200725
Conc: 520.26 PPB m



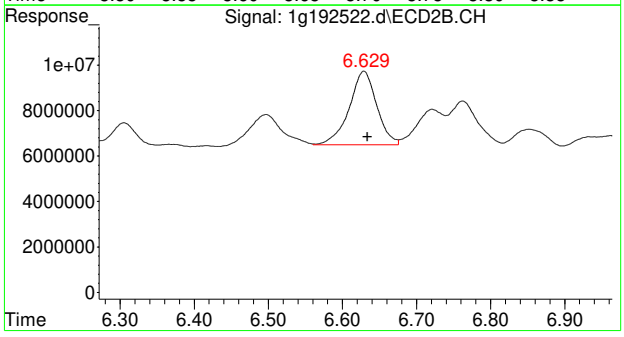
#30 Toxaphene{C}

R.T.: 6.497 min
Delta R.T.: -0.004 min
Response: 45975306
Conc: 545.18 PPB



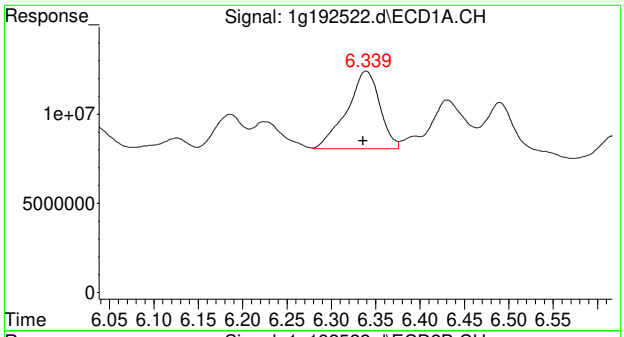
#31 Toxaphene{D}

R.T.: 5.687 min
Delta R.T.: 0.000 min
Response: 86923322
Conc: 517.66 PPB m



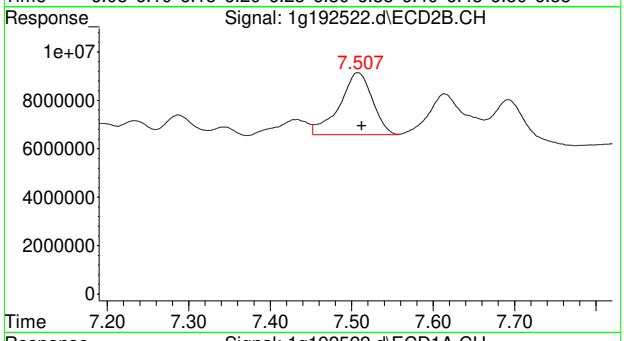
#31 Toxaphene{D}

R.T.: 6.629 min
Delta R.T.: -0.005 min
Response: 83913342
Conc: 537.11 PPB m



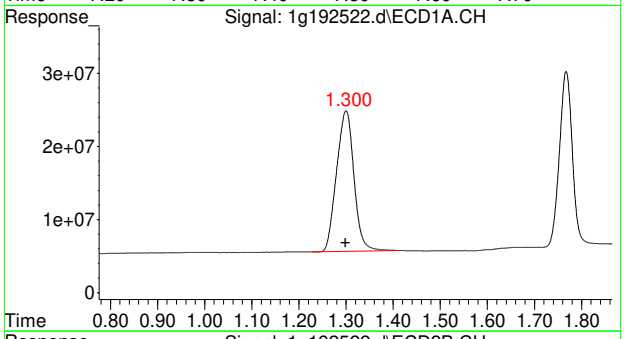
#32 Toxaphene{E}

R.T.: 6.339 min
Delta R.T.: 0.003 min
Response: 112325331
Conc: 522.36 PPB m



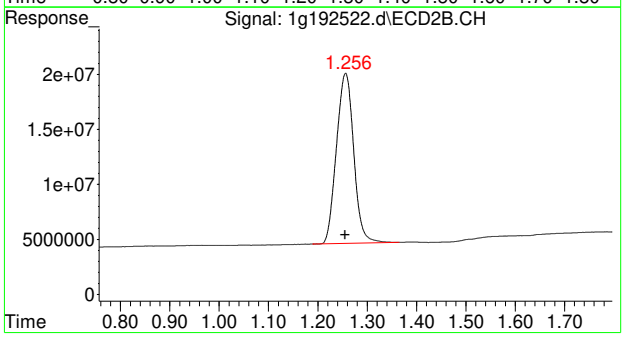
#32 Toxaphene{E}

R.T.: 7.507 min
Delta R.T.: -0.005 min
Response: 72108738
Conc: 486.98 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.300 min
Delta R.T.: 0.001 min
Response: 491922790
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.257 min
Delta R.T.: 0.001 min
Response: 377132966
Conc: 50.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Rebecca Krug
04/03/24 17:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G8G2430\
Data File : 8g55359.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Apr 2024 7:03 am
Operator : rebeccak
Sample : icc2430-2.5 (pest mix)
Misc : op53462,g8g2430,5.0,,,10,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 09:30:16 2024
Quant Method : C:\msdchem\1\METHODS\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Wed Apr 03 09:26:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
		Internal Standards							
1)	I	1-bromo-2...	4.461	4.925	645.3E6	935.4E6	5.000	5.000	
27)	I	1-bromo-2...	4.461	4.925	645.3E6	935.4E6	5.000	5.000	
33)	I	1-bromo-2...	4.461	4.925	645.3E6	935.4E6	5.000	5.000	
		System Monitoring Compounds							
2)	SAB	Tetrachlo...	5.074	5.755	317.4E6	662.2E6	2.381	2.493	
		Spiked Amount 40.000	Range 30 - 150		Recovery =		5.95%#	6.23%#	
26)	SA	Decachlor...	12.067	14.244	354.4E6	317.1E6	2.584m	2.514	
		Spiked Amount 40.000			Recovery =		6.46%	6.28%	
		Target Compounds							
3)		hexachlor...	5.394	6.253	519.4E6	708.0E6	2.524	2.579	
4)	A	alpha-BHC	5.528	6.403	422.9E6	959.6E6	2.079	2.621	#
5)	MA	gamma-BHC	5.806	6.818	450.5E6	849.3E6	2.581	2.584	
6)	MA	Heptachlor	6.269	7.375	433.5E6	727.5E6	2.628	2.560	
7)	B	beta-BHC	5.892	6.911	207.7E6	388.2E6	2.545	2.542	
8)	B	delta-BHC	6.061	7.291	390.8E6	698.0E6	2.313	2.365	
9)	MB	Aldrin	6.578	7.813	397.8E6	786.1E6	2.550	2.626	
10)		alachlor	6.727	7.636	60123994	114.9E6	2.823	2.686	
11)	B	Heptachlo...	7.245	8.618	349.2E6	722.3E6	2.501	2.594	
12)	B	gamma-Chl...	7.399	8.898	409.2E6	738.1E6	2.647	2.707	
13)	B	alpha-Chl...	7.558	9.118	375.8E6	668.7E6	2.533	2.541	
14)	A	Endosulfan I	7.721	9.209	365.5E6	650.7E6	2.678	2.487	
15)	B	4,4'-DDE	7.672	9.383	363.5E6	690.0E6	2.578	2.659	
16)	MA	Dieldrin	8.027	9.635	390.7E6	731.5E6	2.612	2.656	
17)	MA	Endrin	8.327	10.130	352.8E6	584.5E6	2.793	2.665	
18)	A	4,4'-DDD	8.455	10.316	277.7E6	581.9E6	2.387	2.642	
19)	B	Endosulfa...	8.634	10.476	338.4E6	609.9E6	2.535	2.638	
20)	MA	4,4'-DDT	8.850	10.842	299.8E6	430.5E6	3.200	3.217	
21)	B	Endrin Al...	9.227	11.038	269.0E6	434.0E6	2.484	2.595	
22)	B	Endosulfa...	9.879	11.503	308.0E6	542.2E6	2.518	2.678	
23)	A	Methoxychlor	9.613	12.069	172.1E6	198.1E6	2.755	2.651	
24)		Mirex	9.734	12.380	290.5E6	423.6E6	2.571	2.592	
25)	B	Endrin Ke...	10.299	12.449	367.8E6	585.3E6	2.586	2.647	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

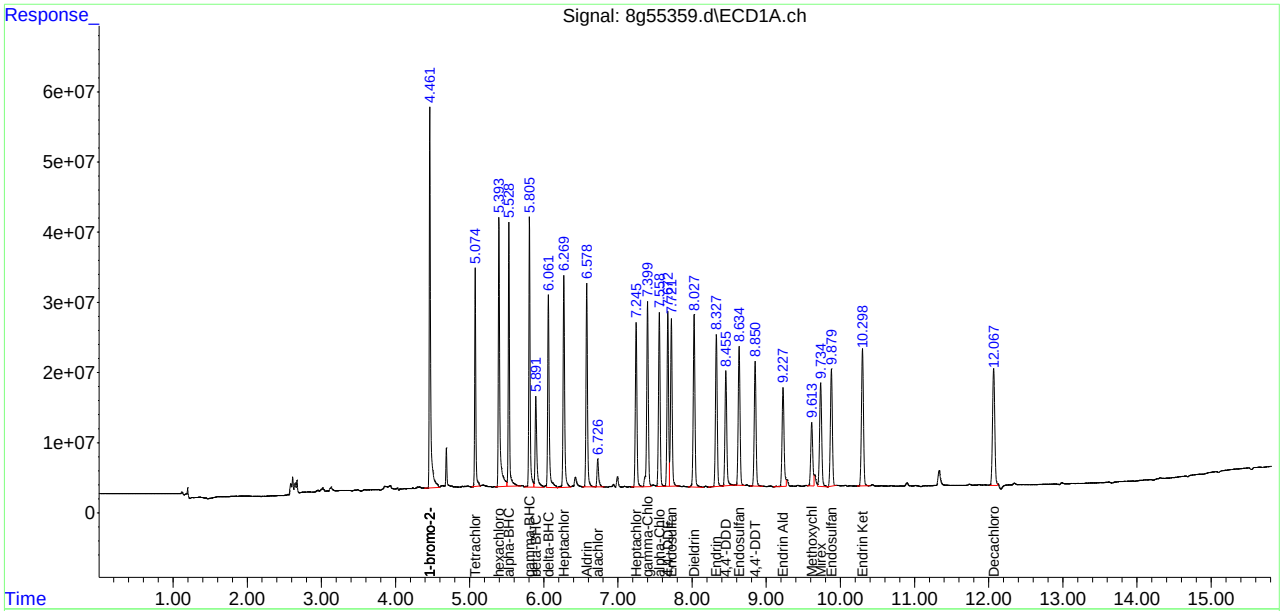
9.3.12
9

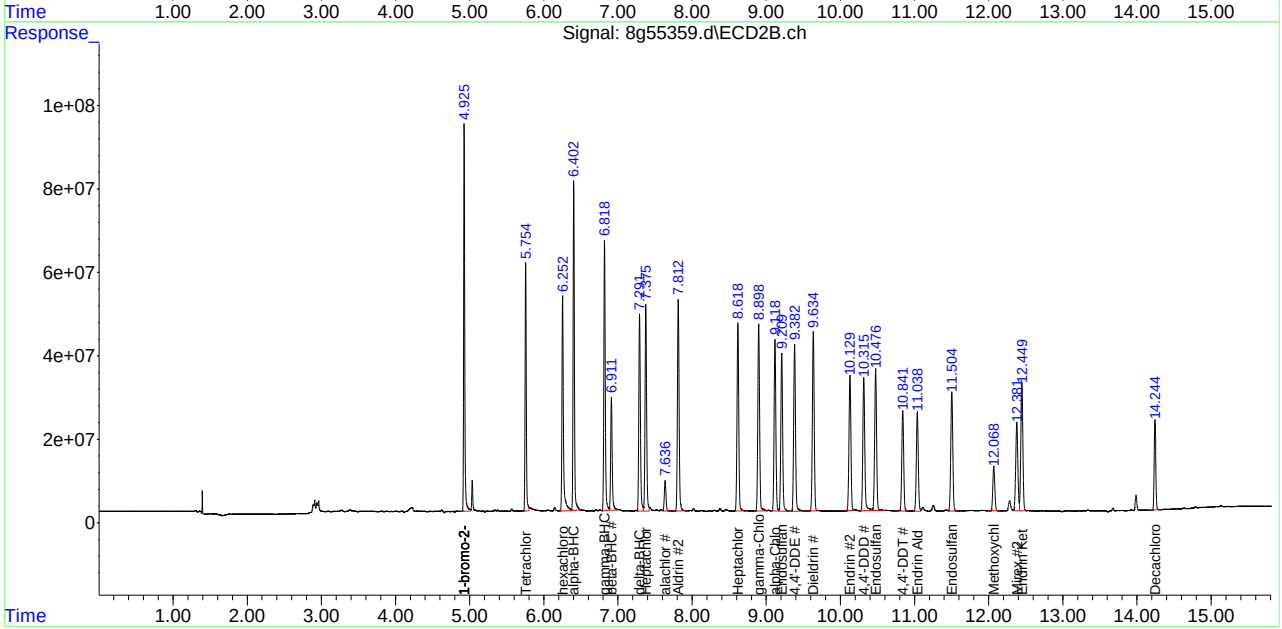
Quantitation Report (QT Reviewed)

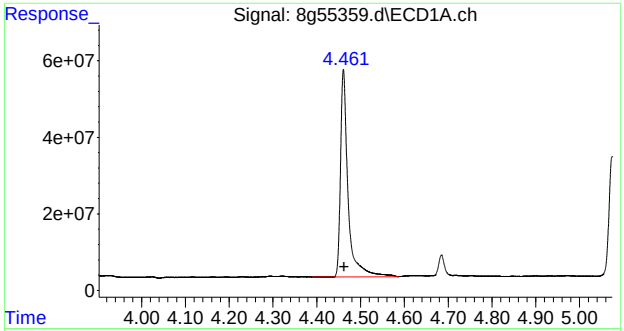
Data Path : C:\msdchem\1\DATA\G8G2430\
Data File : 8g55359.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Apr 2024 7:03 am
Operator : rebeccak
Sample : icc2430-2.5 (pest mix)
Misc : op53462,g8g2430,5.0,,,10,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 09:30:16 2024
Quant Method : C:\msdchem\1\METHODS\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Wed Apr 03 09:26:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

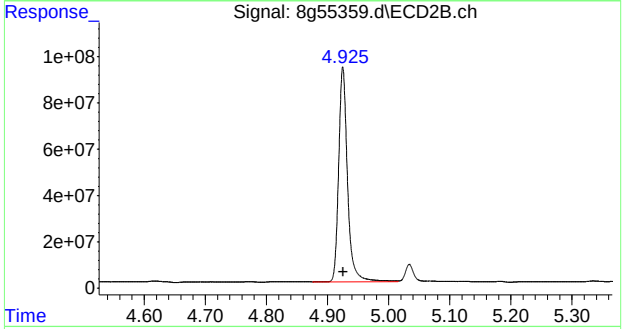






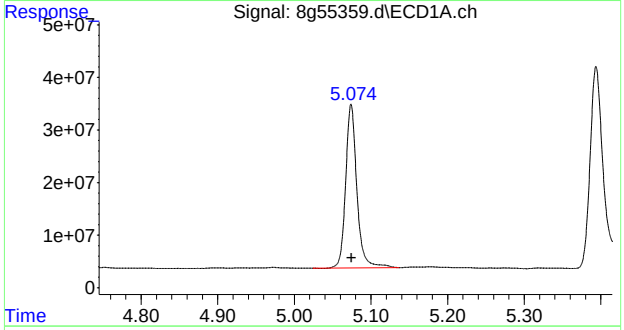
#1 1-bromo-2-nitrobenzene

R.T.: 4.461 min
Delta R.T.: 0.000 min
Response: 645262413
Conc: 5.00 PPB



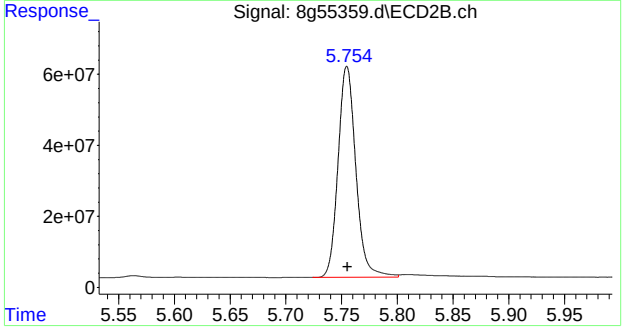
#1 1-bromo-2-nitrobenzene

R.T.: 4.925 min
Delta R.T.: 0.000 min
Response: 935418264
Conc: 5.00 PPB



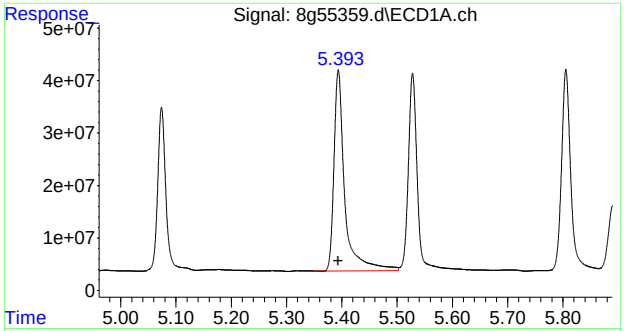
#2 Tetrachloro-m-xylene

R.T.: 5.074 min
Delta R.T.: 0.000 min
Response: 317449965
Conc: 2.38 PPB



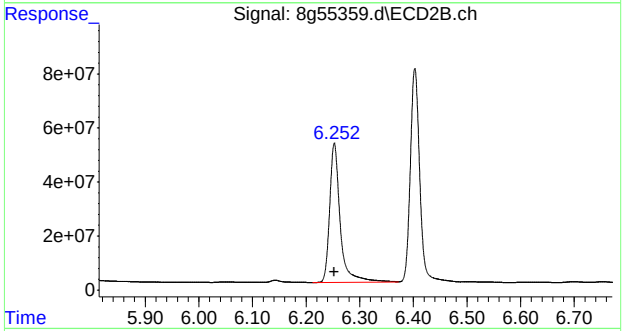
#2 Tetrachloro-m-xylene

R.T.: 5.755 min
Delta R.T.: 0.000 min
Response: 662211313
Conc: 2.49 PPB



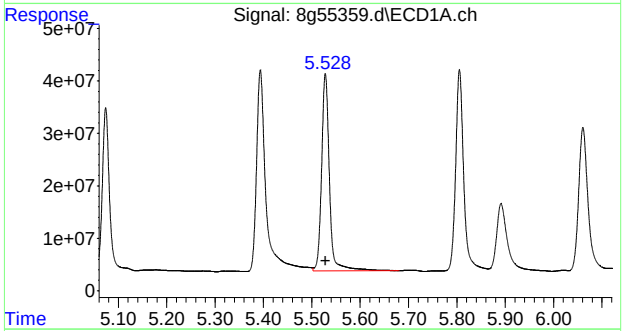
#3 hexachlorobenzene

R.T.: 5.394 min
Delta R.T.: 0.000 min
Response: 519406871
Conc: 2.52 PPB



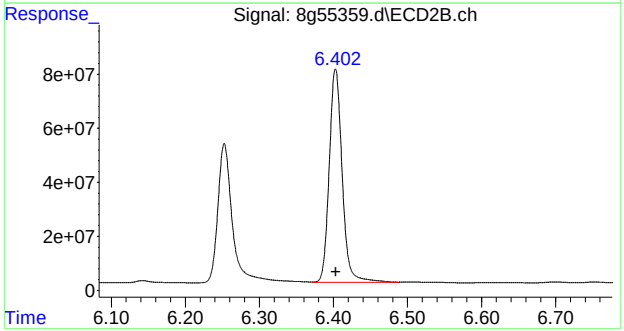
#3 hexachlorobenzene

R.T.: 6.253 min
Delta R.T.: 0.000 min
Response: 707980873
Conc: 2.58 PPB



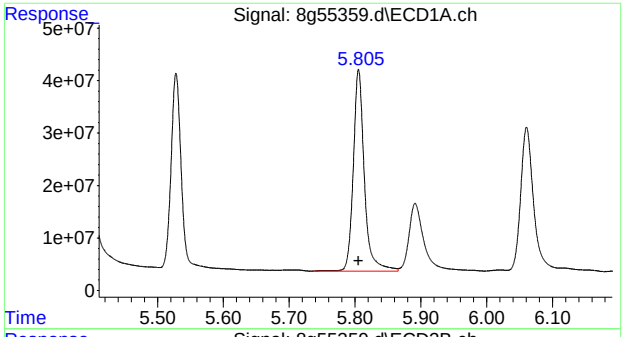
#4 alpha-BHC

R.T.: 5.528 min
Delta R.T.: 0.000 min
Response: 422862977
Conc: 2.08 PPB



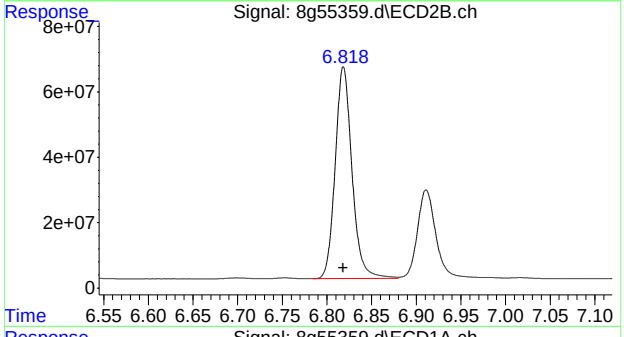
#4 alpha-BHC

R.T.: 6.403 min
Delta R.T.: 0.000 min
Response: 959602278
Conc: 2.62 PPB



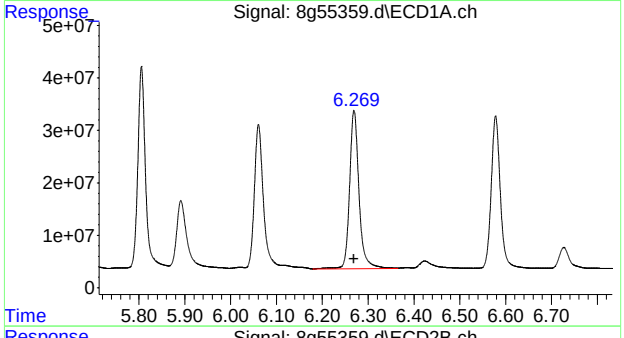
#5 gamma-BHC

R.T.: 5.806 min
Delta R.T.: 0.000 min
Response: 450470307
Conc: 2.58 PPB



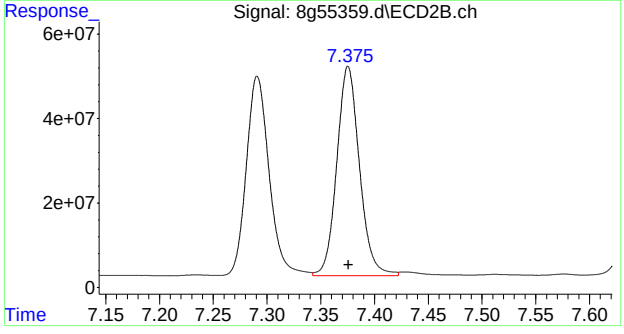
#5 gamma-BHC

R.T.: 6.818 min
Delta R.T.: 0.000 min
Response: 849300871
Conc: 2.58 PPB



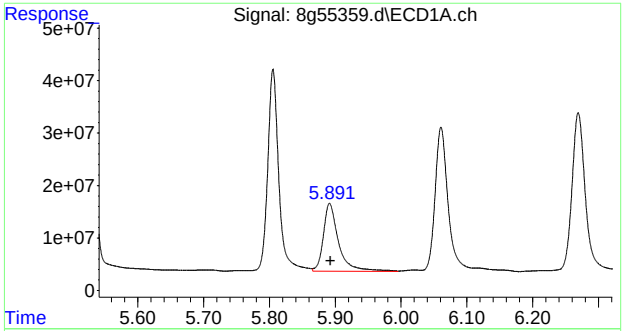
#6 Heptachlor

R.T.: 6.269 min
Delta R.T.: 0.000 min
Response: 433498119
Conc: 2.63 PPB



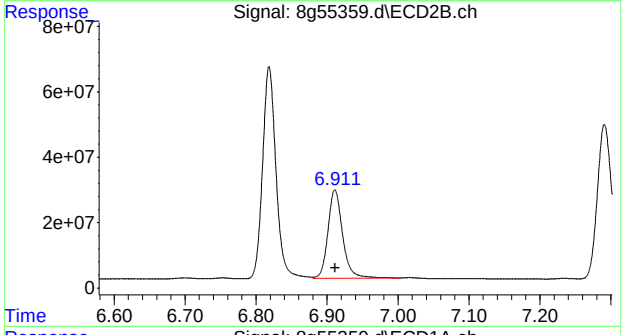
#6 Heptachlor

R.T.: 7.375 min
Delta R.T.: 0.000 min
Response: 727537414
Conc: 2.56 PPB



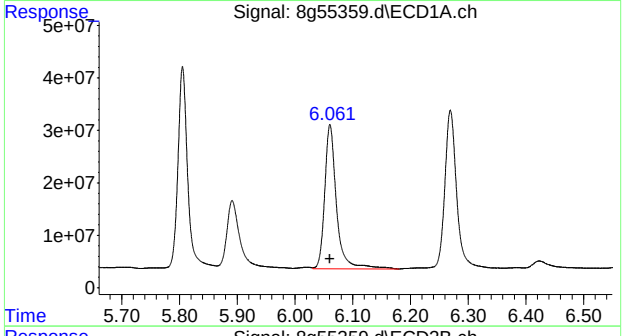
#7 beta-BHC

R.T.: 5.892 min
Delta R.T.: -0.001 min
Response: 207664498
Conc: 2.55 PPB



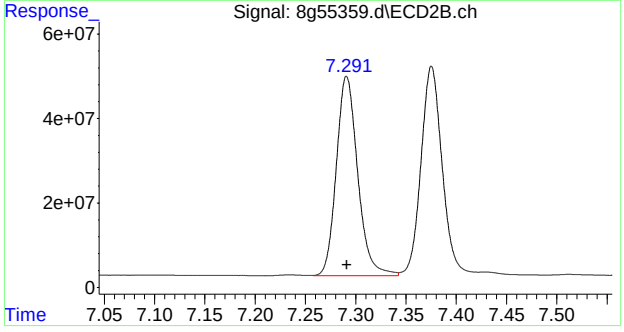
#7 beta-BHC

R.T.: 6.911 min
Delta R.T.: 0.000 min
Response: 388222649
Conc: 2.54 PPB



#8 delta-BHC

R.T.: 6.061 min
Delta R.T.: 0.000 min
Response: 390809180
Conc: 2.31 PPB

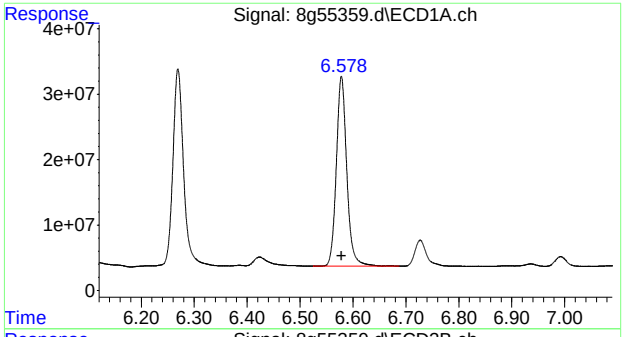


#8 delta-BHC

R.T.: 7.291 min
Delta R.T.: 0.000 min
Response: 698025891
Conc: 2.37 PPB

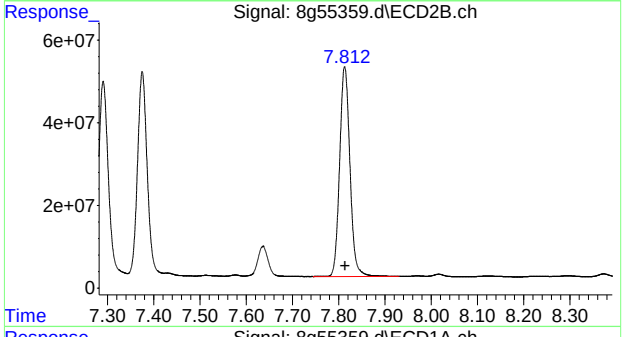
9.3.12

9



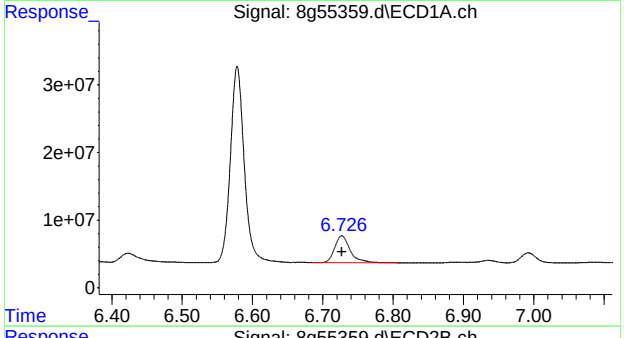
#9 Aldrin

R.T.: 6.578 min
Delta R.T.: 0.000 min
Response: 397812631
Conc: 2.55 PPB



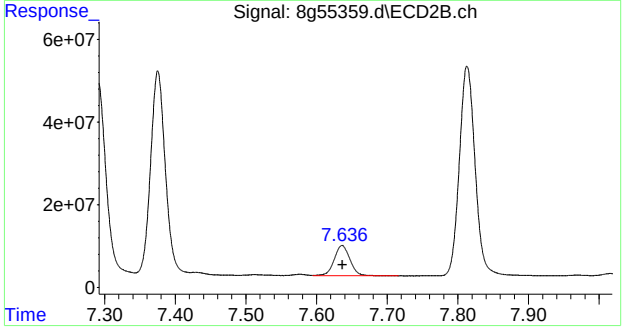
#9 Aldrin

R.T.: 7.813 min
Delta R.T.: -0.001 min
Response: 786051711
Conc: 2.63 PPB



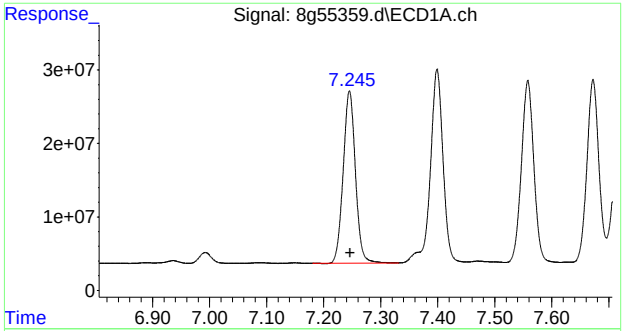
#10 alachlor

R.T.: 6.727 min
Delta R.T.: 0.000 min
Response: 60123994
Conc: 2.82 PPB



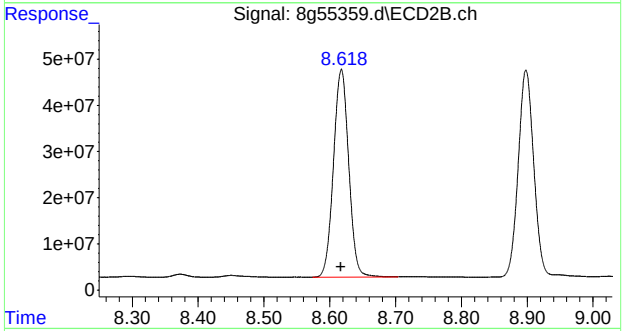
#10 alachlor

R.T.: 7.636 min
Delta R.T.: 0.000 min
Response: 114879751
Conc: 2.69 PPB



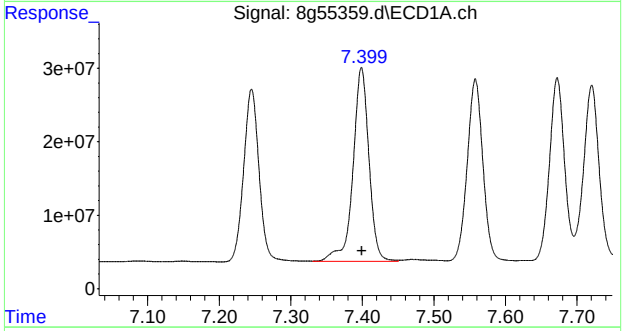
#11 Heptachlor Epoxide

R.T.: 7.245 min
Delta R.T.: 0.000 min
Response: 349198009
Conc: 2.50 PPB



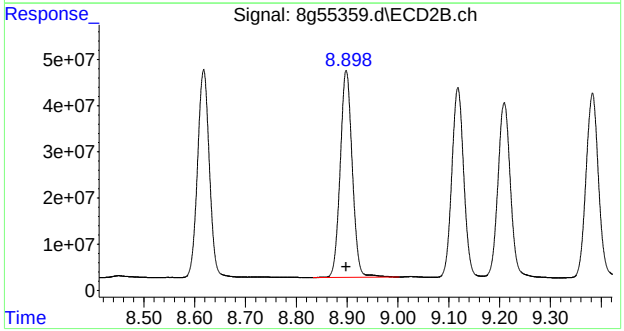
#11 Heptachlor Epoxide

R.T.: 8.618 min
Delta R.T.: 0.001 min
Response: 722264755
Conc: 2.59 PPB



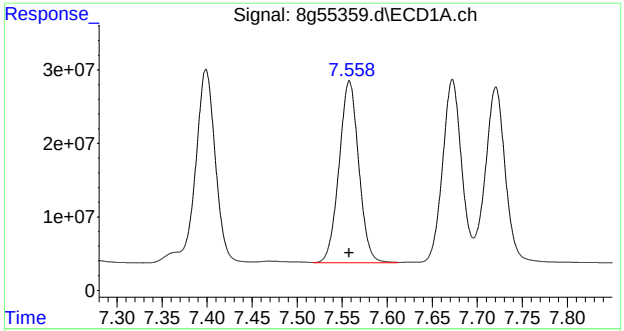
#12 gamma-Chlordane

R.T.: 7.399 min
Delta R.T.: 0.000 min
Response: 409176064
Conc: 2.65 PPB



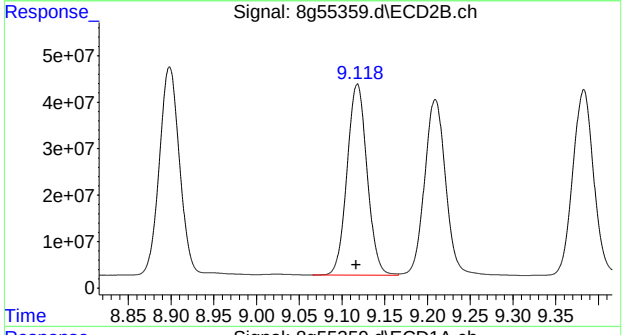
#12 gamma-Chlordane

R.T.: 8.898 min
Delta R.T.: 0.000 min
Response: 738061819
Conc: 2.71 PPB



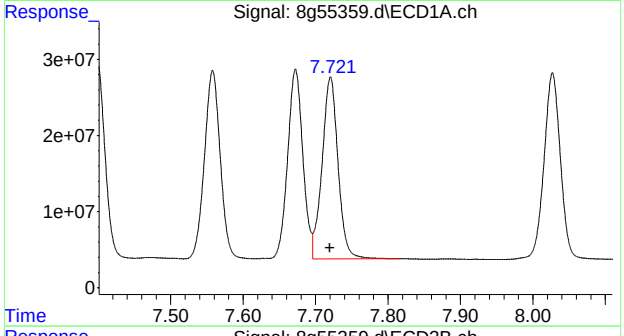
#13 alpha-Chlordane

R.T.: 7.558 min
Delta R.T.: 0.000 min
Response: 375827377
Conc: 2.53 PPB



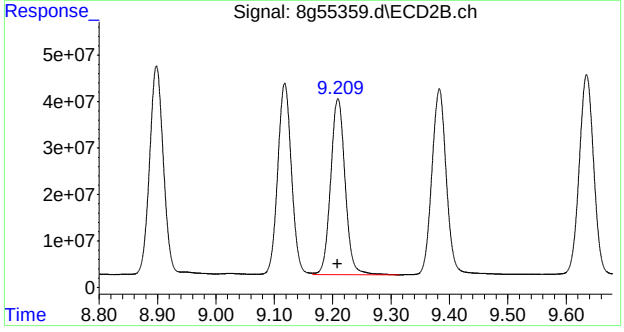
#13 alpha-Chlordane

R.T.: 9.118 min
Delta R.T.: 0.002 min
Response: 668736101
Conc: 2.54 PPB



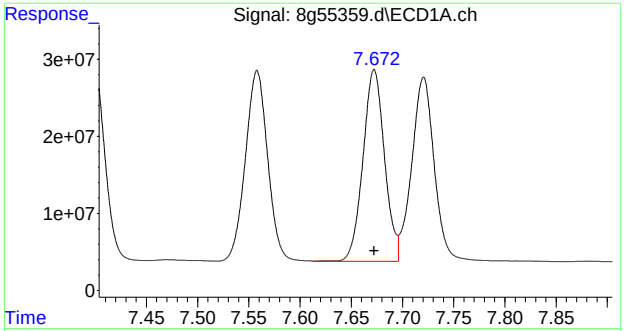
#14 Endosulfan I

R.T.: 7.721 min
Delta R.T.: 0.001 min
Response: 365549841
Conc: 2.68 PPB



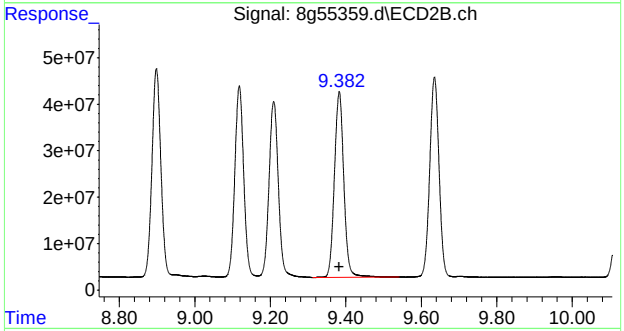
#14 Endosulfan I

R.T.: 9.209 min
Delta R.T.: 0.001 min
Response: 650726254
Conc: 2.49 PPB



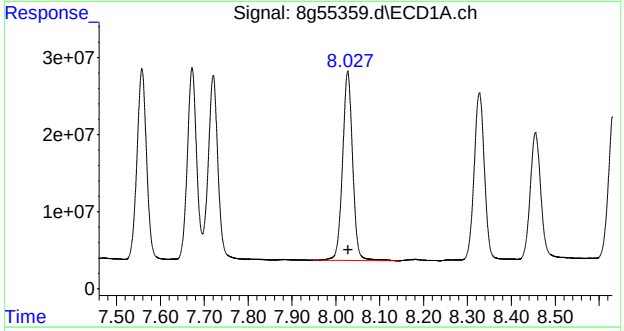
#15 4,4'-DDE

R.T.: 7.672 min
Delta R.T.: 0.000 min
Response: 363538461
Conc: 2.58 PPB



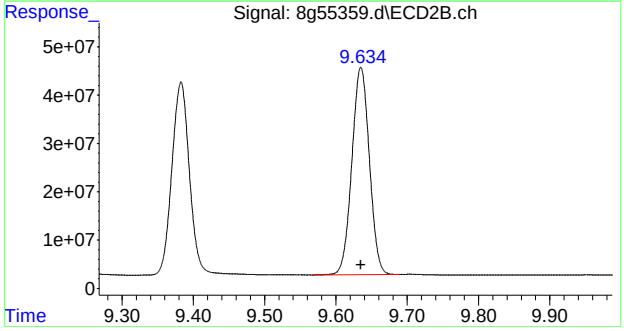
#15 4,4'-DDE

R.T.: 9.383 min
Delta R.T.: 0.001 min
Response: 689971110
Conc: 2.66 PPB



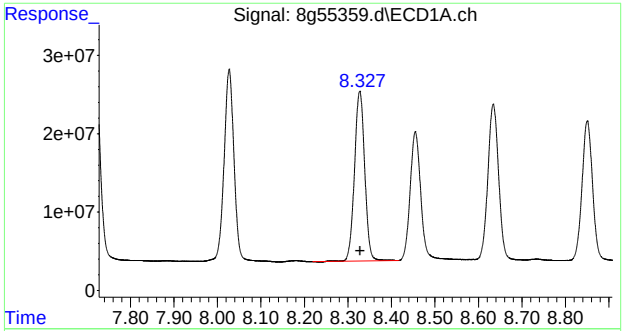
#16 Dieldrin

R.T.: 8.027 min
Delta R.T.: 0.000 min
Response: 390732653
Conc: 2.61 PPB



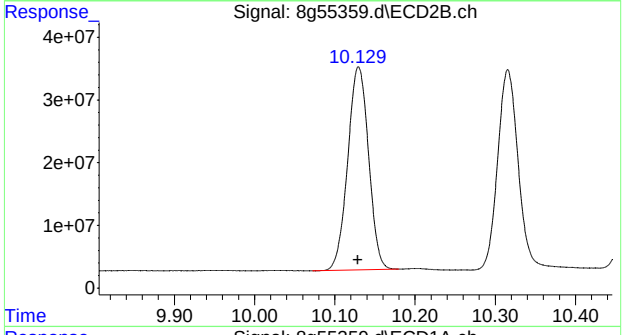
#16 Dieldrin

R.T.: 9.635 min
Delta R.T.: 0.000 min
Response: 731517702
Conc: 2.66 PPB



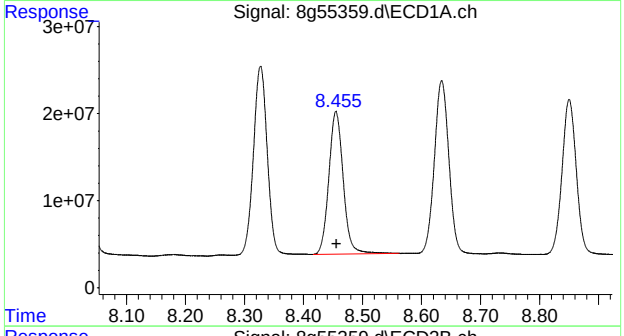
#17 Endrin

R.T.: 8.327 min
Delta R.T.: 0.000 min
Response: 352801016
Conc: 2.79 PPB



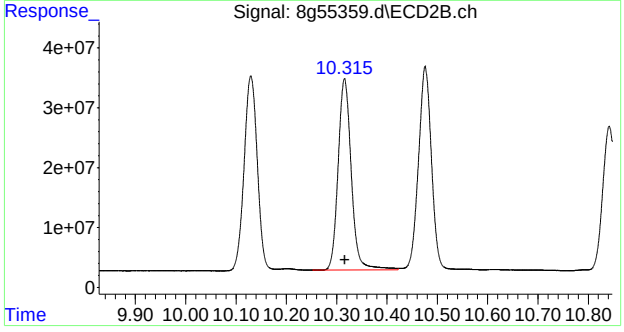
#17 Endrin

R.T.: 10.130 min
Delta R.T.: 0.001 min
Response: 584453426
Conc: 2.67 PPB



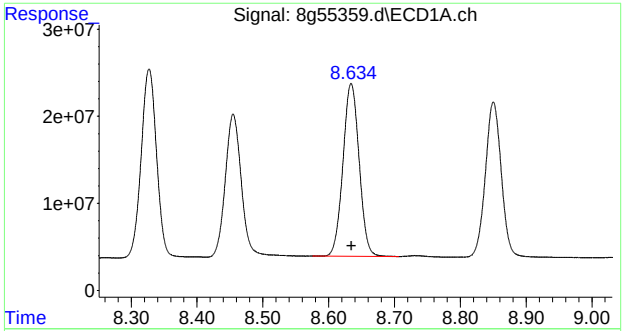
#18 4,4'-DDD

R.T.: 8.455 min
Delta R.T.: 0.000 min
Response: 277728960
Conc: 2.39 PPB



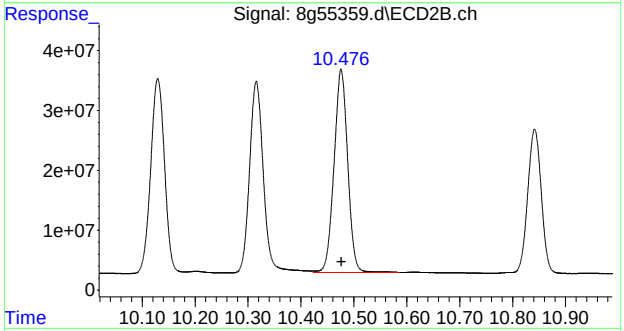
#18 4,4'-DDD

R.T.: 10.316 min
Delta R.T.: 0.000 min
Response: 581916471
Conc: 2.64 PPB



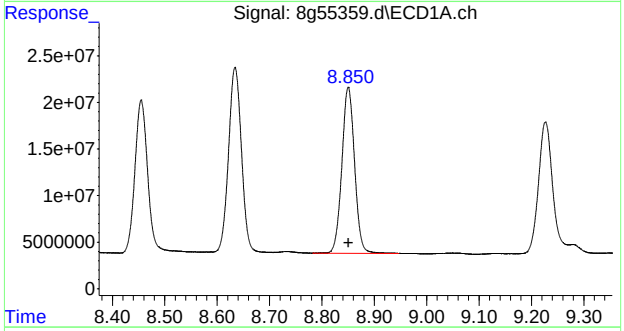
#19 Endosulfan II

R.T.: 8.634 min
Delta R.T.: 0.000 min
Response: 338368836
Conc: 2.54 PPB



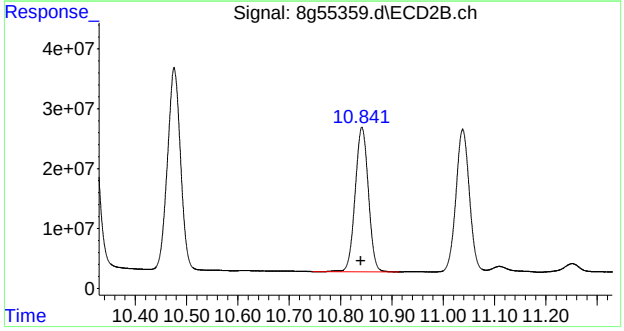
#19 Endosulfan II

R.T.: 10.476 min
Delta R.T.: 0.000 min
Response: 609889467
Conc: 2.64 PPB



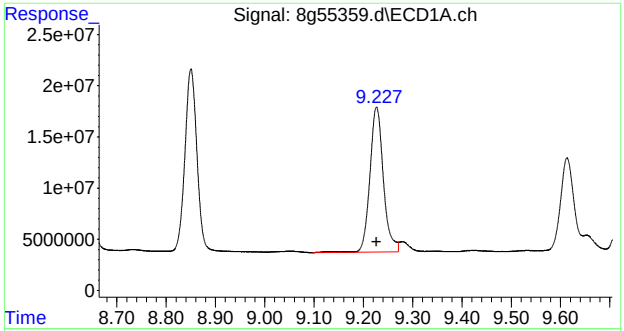
#20 4,4'-DDT

R.T.: 8.850 min
Delta R.T.: 0.000 min
Response: 299790154
Conc: 3.20 PPB



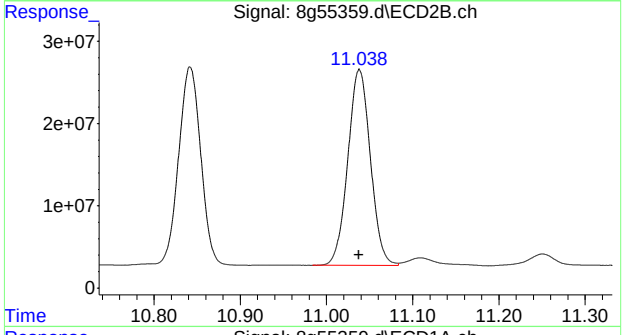
#20 4,4'-DDT

R.T.: 10.842 min
Delta R.T.: 0.002 min
Response: 430476756
Conc: 3.22 PPB



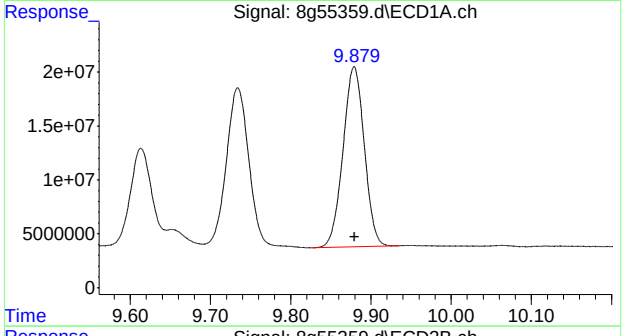
#21 Endrin Aldehyde

R.T.: 9.227 min
Delta R.T.: 0.000 min
Response: 268987178
Conc: 2.48 PPB



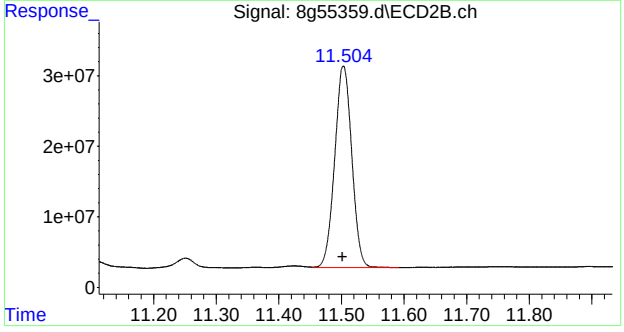
#21 Endrin Aldehyde

R.T.: 11.038 min
Delta R.T.: 0.000 min
Response: 434018574
Conc: 2.60 PPB



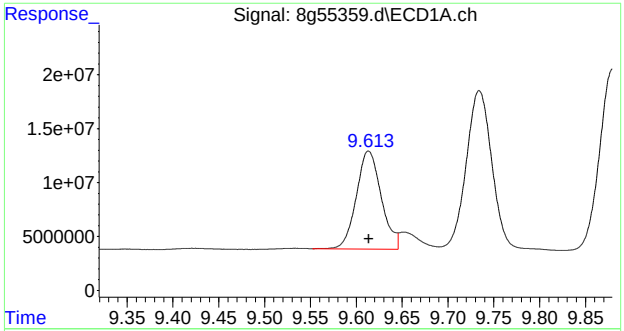
#22 Endosulfan Sulfate

R.T.: 9.879 min
Delta R.T.: 0.000 min
Response: 307997529
Conc: 2.52 PPB



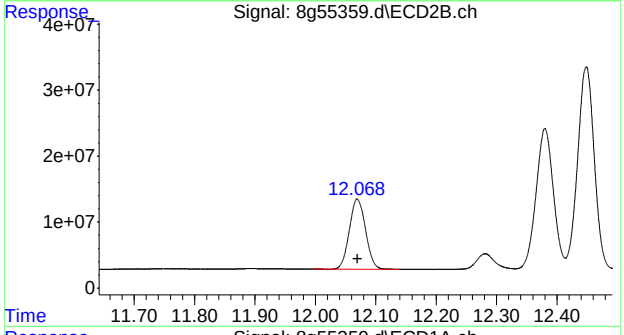
#22 Endosulfan Sulfate

R.T.: 11.503 min
Delta R.T.: 0.002 min
Response: 542241062
Conc: 2.68 PPB



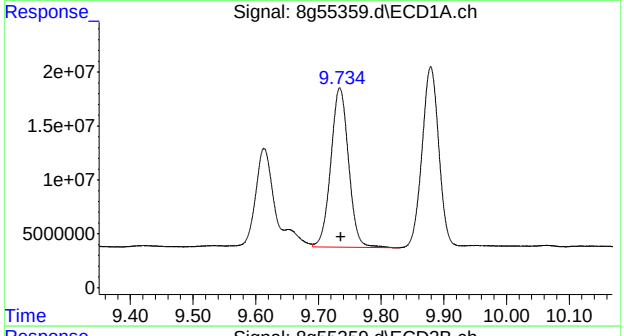
#23 Methoxychlor

R.T.: 9.613 min
Delta R.T.: 0.000 min
Response: 172081915
Conc: 2.75 PPB



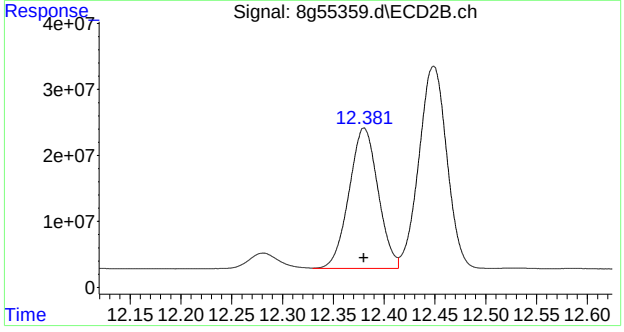
#23 Methoxychlor

R.T.: 12.069 min
Delta R.T.: 0.000 min
Response: 198117006
Conc: 2.65 PPB



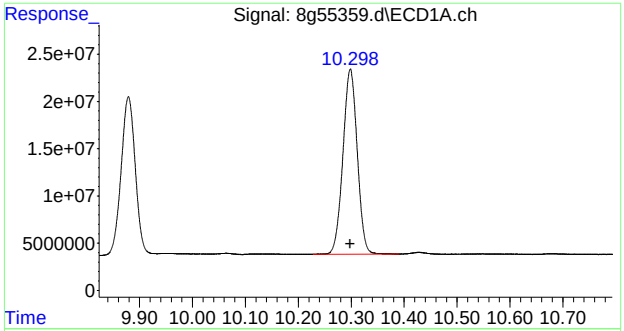
#24 Mirex

R.T.: 9.734 min
Delta R.T.: -0.002 min
Response: 290496212
Conc: 2.57 PPB



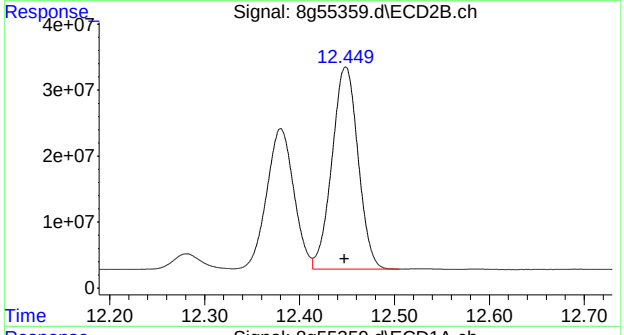
#24 Mirex

R.T.: 12.380 min
Delta R.T.: 0.000 min
Response: 423572929
Conc: 2.59 PPB



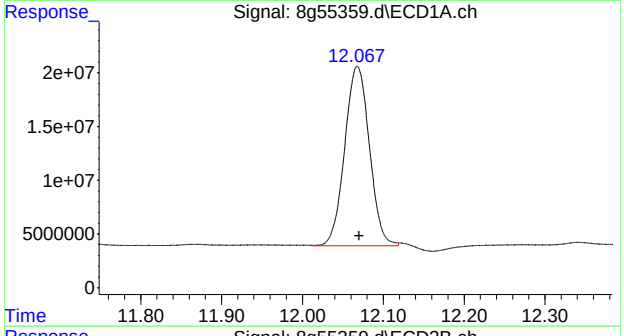
#25 Endrin Ketone

R.T.: 10.299 min
Delta R.T.: 0.000 min
Response: 367780463
Conc: 2.59 PPB



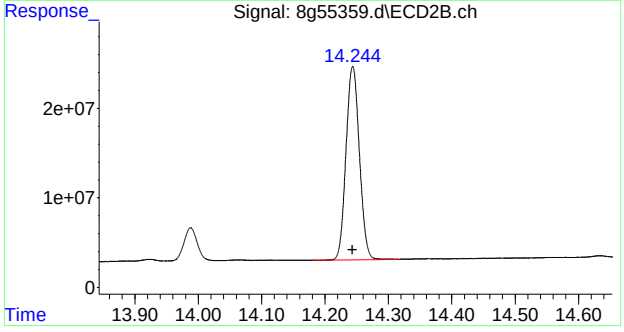
#25 Endrin Ketone

R.T.: 12.449 min
Delta R.T.: 0.001 min
Response: 585348244
Conc: 2.65 PPB



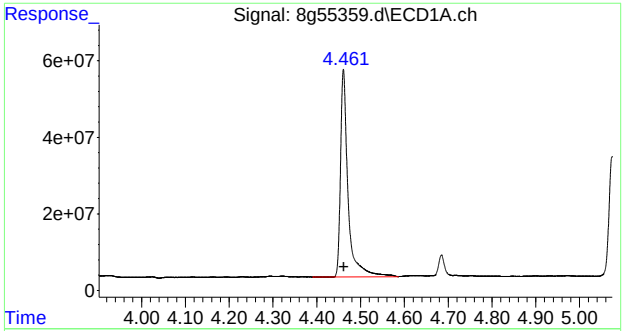
#26 Decachlorobiphenyl

R.T.: 12.067 min
Delta R.T.: -0.003 min
Response: 354387701
Conc: 2.58 PPB m



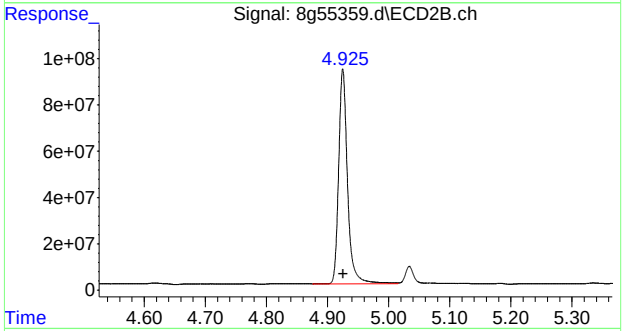
#26 Decachlorobiphenyl

R.T.: 14.244 min
Delta R.T.: 0.000 min
Response: 317057878
Conc: 2.51 PPB



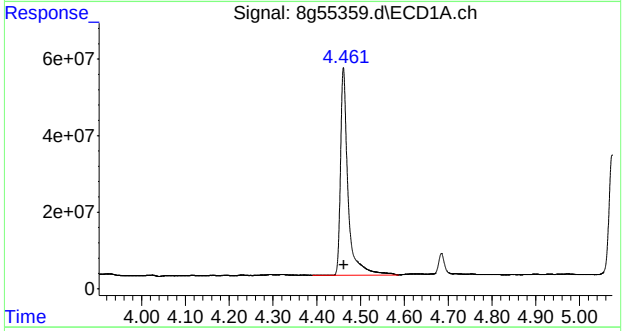
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.461 min
Delta R.T.: 0.000 min
Response: 645262413
Conc: 5.00 PPB



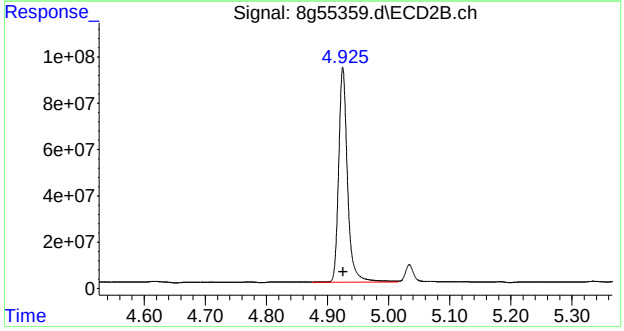
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.925 min
Delta R.T.: 0.000 min
Response: 935418264
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.461 min
Delta R.T.: 0.000 min
Response: 645262413
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.925 min
Delta R.T.: 0.000 min
Response: 935418264
Conc: 5.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Rebecca Krug
04/03/24 17:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G8G2430\
Data File : 8g55363.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Apr 2024 8:30 am
Operator : rebeccak
Sample : ic2430-50 (chlordane)
Misc : op53462,g8g2430,5.0,,,10,1
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 09:26:45 2024
Quant Method : C:\msdchem\1\METHODS\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Wed Apr 03 09:26:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.462	4.925	734.4E6	1001.4E6	5.000	5.000
27)	I 1-bromo-2...	4.462	4.925	734.4E6	1001.4E6	5.000	5.000
33)	I 1-bromo-2...	4.462	4.925	734.4E6	1001.4E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.074	5.755	733.9E6	1392.8E6	4.838	4.898
	Spiked Amount	40.000	Range 30 - 150	Recovery	=	12.10%#	12.24%#
26)	SA Decachlor...	12.070	14.243	755.6E6	702.3E6	4.840	5.201
	Spiked Amount	40.000		Recovery	=	12.10%	13.00%
	Target Compounds						
34)	Chlordane...	6.270	7.376	493.5E6	895.1E6	47.249	51.501
35)	Chlordane...	6.719	8.010	329.2E6	549.4E6	50.400	55.525
36)	Chlordane...	7.403	8.900	1079.3E6	1848.0E6	48.752	52.973
37)	Chlordane...	7.554	9.120	1692.0E6	3022.8E6	49.451m	53.579m
38)	Chlordane...	8.544	10.557	241.4E6	416.8E6	50.390	56.359
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

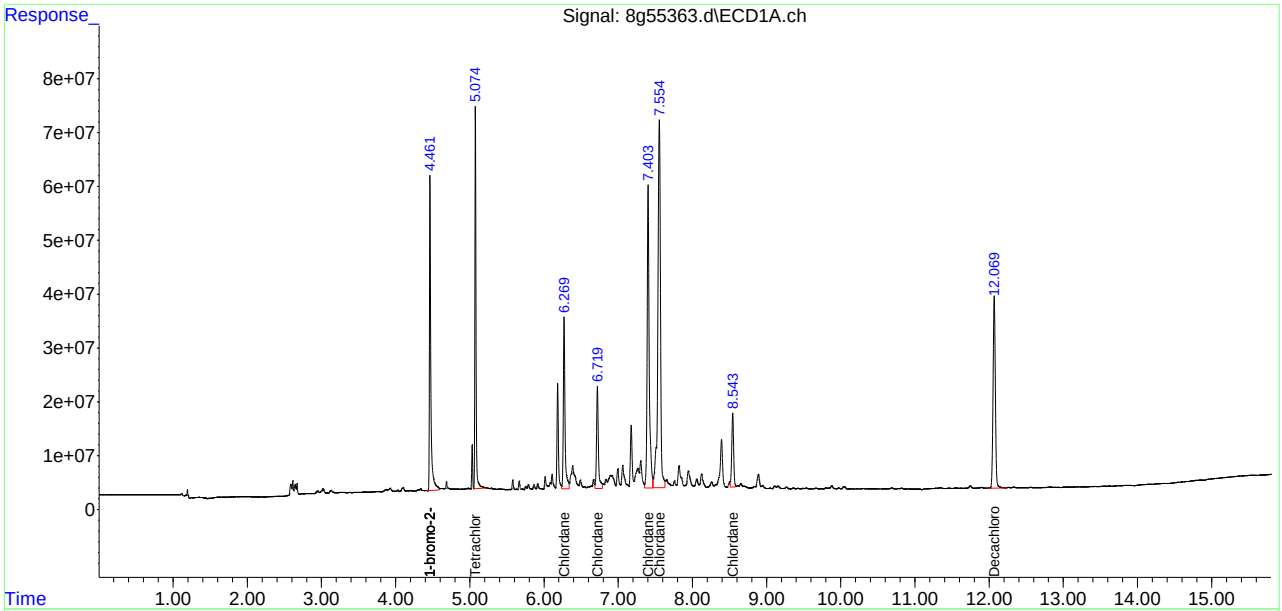
9.3.13
9

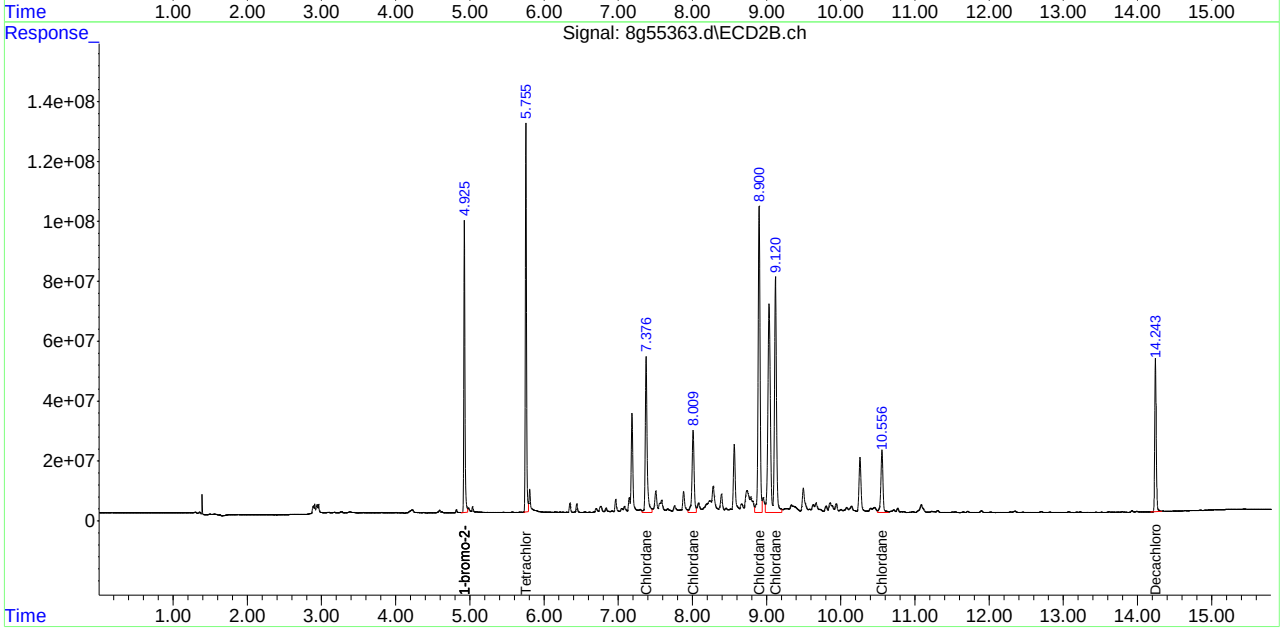
Quantitation Report (QT Reviewed)

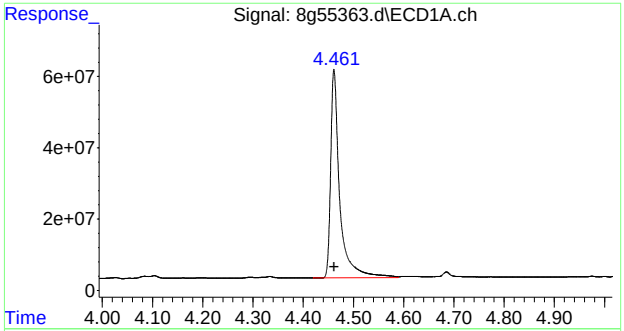
Data Path : C:\msdchem\1\DATA\G8G2430\
Data File : 8g55363.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Apr 2024 8:30 am
Operator : rebeccak
Sample : ic2430-50 (chlordane)
Misc : op53462,g8g2430,5.0,,,10,1
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 09:26:45 2024
Quant Method : C:\msdchem\1\METHODS\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Wed Apr 03 09:26:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

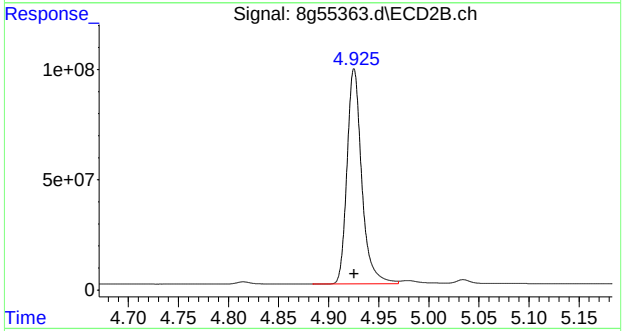






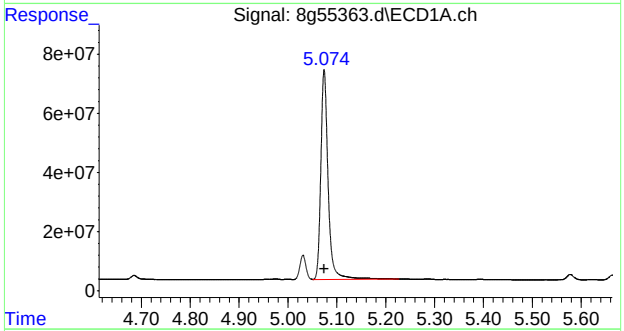
#1 1-bromo-2-nitrobenzene

R.T.: 4.462 min
Delta R.T.: 0.000 min
Response: 734416683
Conc: 5.00 PPB



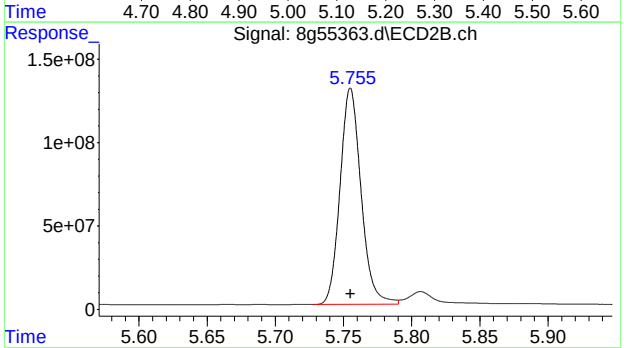
#1 1-bromo-2-nitrobenzene

R.T.: 4.925 min
Delta R.T.: 0.000 min
Response: 1001437108
Conc: 5.00 PPB



#2 Tetrachloro-m-xylene

R.T.: 5.074 min
Delta R.T.: 0.000 min
Response: 733939425
Conc: 4.84 PPB

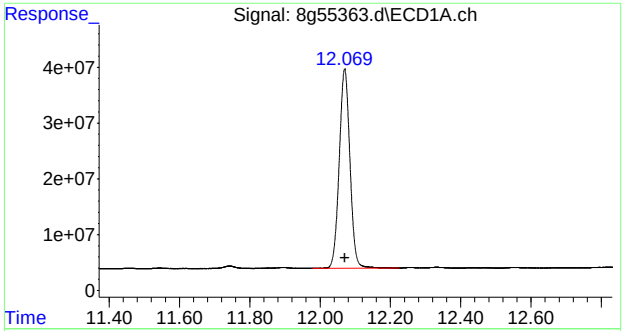


#2 Tetrachloro-m-xylene

R.T.: 5.755 min
Delta R.T.: 0.000 min
Response: 1392849093
Conc: 4.90 PPB

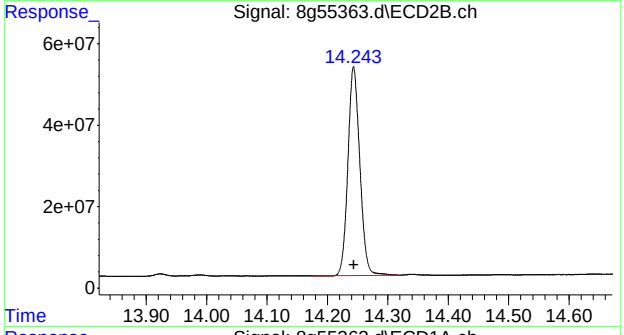
9.3.13

9



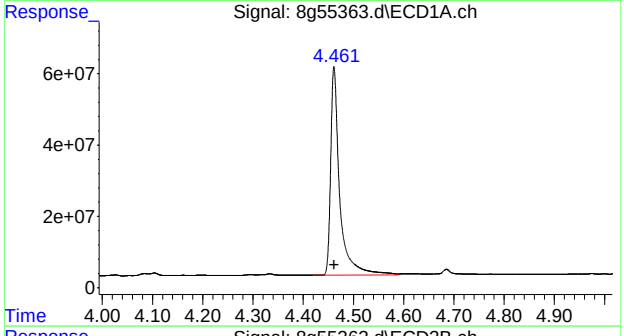
#26 Decachlorobiphenyl

R.T.: 12.070 min
Delta R.T.: 0.000 min
Response: 755568988
Conc: 4.84 PPB



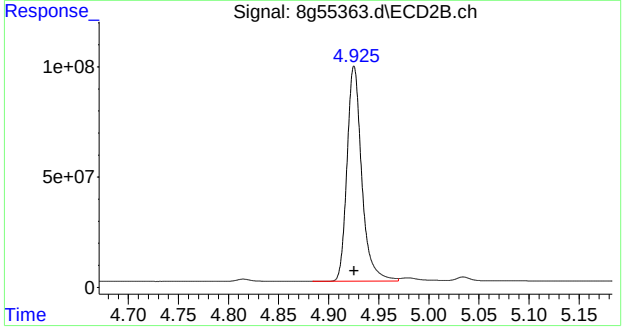
#26 Decachlorobiphenyl

R.T.: 14.243 min
Delta R.T.: 0.000 min
Response: 702282197
Conc: 5.20 PPB



#27 1-bromo-2-nitrobenzeneA

R.T.: 4.462 min
Delta R.T.: 0.000 min
Response: 734416683
Conc: 5.00 PPB

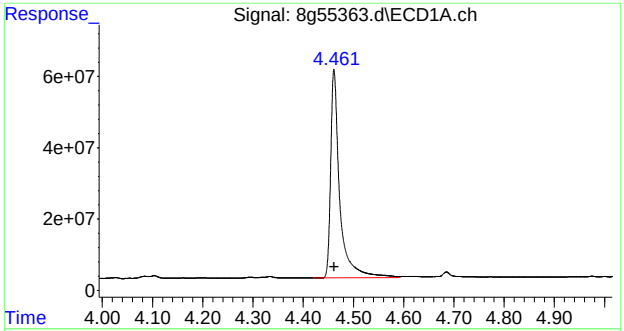


#27 1-bromo-2-nitrobenzeneA

R.T.: 4.925 min
Delta R.T.: 0.000 min
Response: 1001437108
Conc: 5.00 PPB

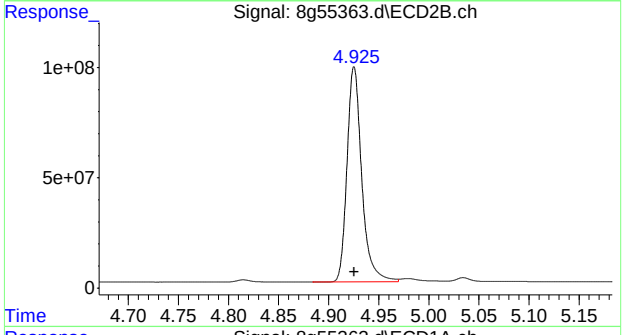
9.3.13

9



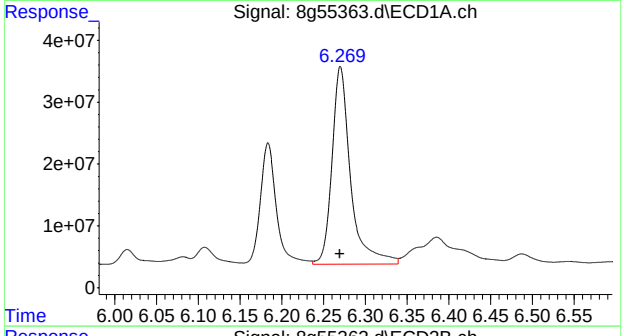
#33 1-bromo-2-nitrobenzeneB

R.T.: 4.462 min
Delta R.T.: 0.000 min
Response: 734416683
Conc: 5.00 PPB



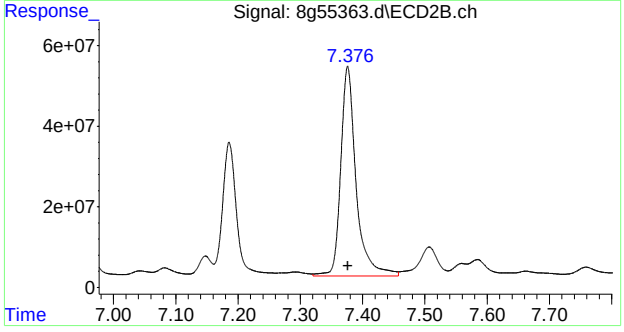
#33 1-bromo-2-nitrobenzeneB

R.T.: 4.925 min
Delta R.T.: 0.000 min
Response: 1001437108
Conc: 5.00 PPB



#34 Chlordane {A}

R.T.: 6.270 min
Delta R.T.: 0.000 min
Response: 493475577
Conc: 47.25 PPB

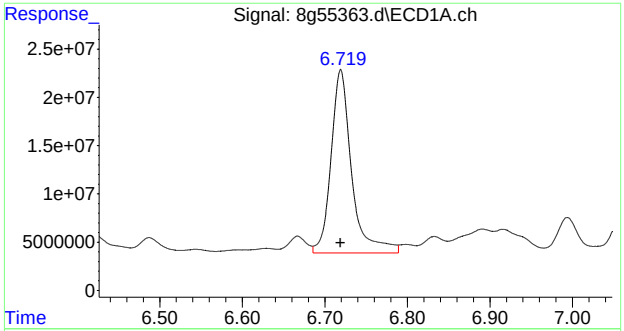


#34 Chlordane {A}

R.T.: 7.376 min
Delta R.T.: 0.000 min
Response: 895100679
Conc: 51.50 PPB

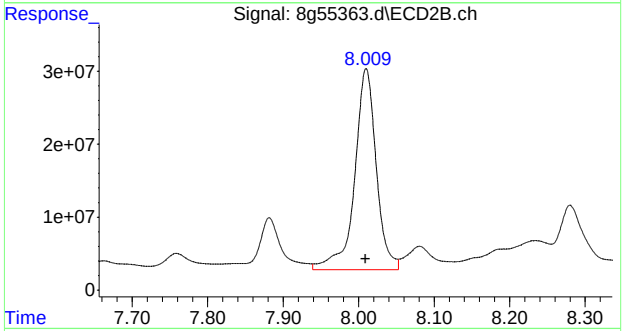
9.3.13

9



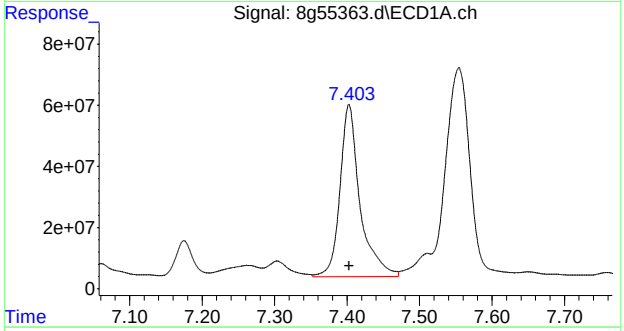
#35 Chlordane {B}

R.T.: 6.719 min
Delta R.T.: 0.000 min
Response: 329216660
Conc: 50.40 PPB



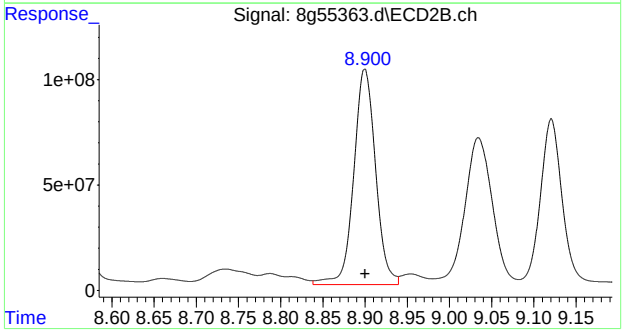
#35 Chlordane {B}

R.T.: 8.010 min
Delta R.T.: 0.000 min
Response: 549392410
Conc: 55.52 PPB



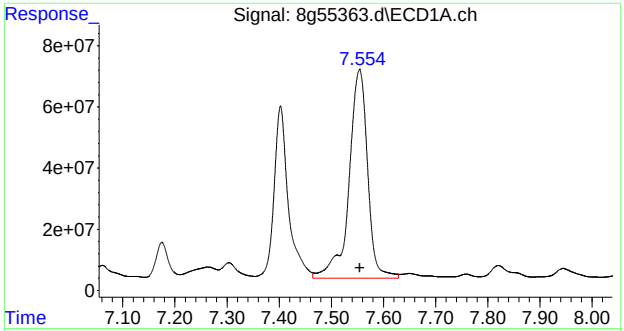
#36 Chlordane {C}

R.T.: 7.403 min
Delta R.T.: 0.000 min
Response: 1079331238
Conc: 48.75 PPB



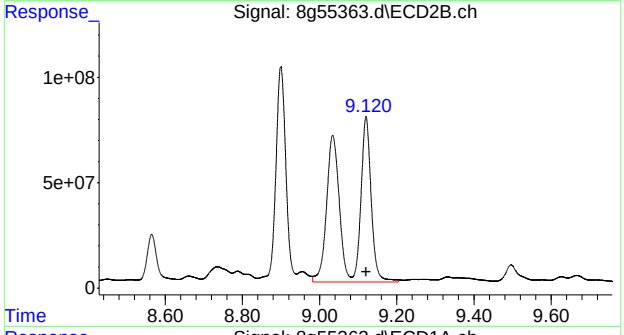
#36 Chlordane {C}

R.T.: 8.900 min
Delta R.T.: 0.000 min
Response: 1848001930
Conc: 52.97 PPB



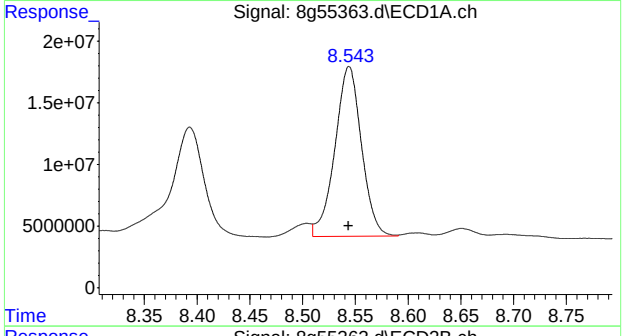
#37 Chlordane {D}

R.T.: 7.554 min
Delta R.T.: 0.000 min
Response: 1691985310
Conc: 49.45 PPB m



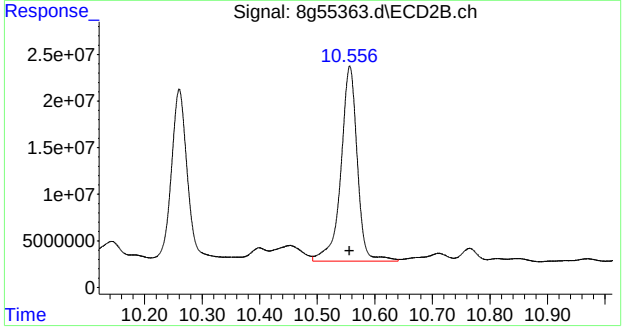
#37 Chlordane {D}

R.T.: 9.120 min
Delta R.T.: 0.000 min
Response: 3022776776
Conc: 53.58 PPB m



#38 Chlordane {E}

R.T.: 8.544 min
Delta R.T.: 0.000 min
Response: 241353732
Conc: 50.39 PPB



#38 Chlordane {E}

R.T.: 10.557 min
Delta R.T.: 0.001 min
Response: 416759003
Conc: 56.36 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Rebecca Krug
04/03/24 17:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G8G2430\
Data File : 8g55364.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Apr 2024 8:52 am
Operator : rebeccak
Sample : ic2430-50 (toxaphene)
Misc : op53462,g8g2430,5.0,,,10,1
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 10:34:07 2024
Quant Method : C:\msdchem\1\METHODS\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Wed Apr 03 10:21:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.462	4.925	702.2E6	983.2E6	5.000	5.000
27)	I 1-bromo-2...	4.462	4.925	702.2E6	983.2E6	5.000	5.000
33)	I 1-bromo-2...	4.462	4.925	702.2E6	983.2E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.074	5.755	650.4E6	1331.2E6	4.444	4.601
	Spiked Amount 40.000	Range 30 - 150		Recovery =		11.11%#	11.50%#
26)	SA Decachlor...	12.070	14.245	692.3E6	633.1E6	4.384	4.621
	Spiked Amount 40.000			Recovery =		10.96%	11.55%
	Target Compounds						
28)	L8 Toxaphene{A}	7.528	9.780	42085498	83609147	95.956m	94.215m
29)	L8 Toxaphene{B}	8.149	10.611	73526040	312.1E6	33.959	290.515m#
30)	L8 Toxaphene{C}	9.112	10.742	80193993	83315164	59.246m	59.297m
31)	L8 Toxaphene{D}	9.424	11.044	84049338	230.1E6	75.559m	79.118m
32)	L8 Toxaphene{E}	9.726	11.935	180.1E6	244.3E6	51.020m	80.845m#

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

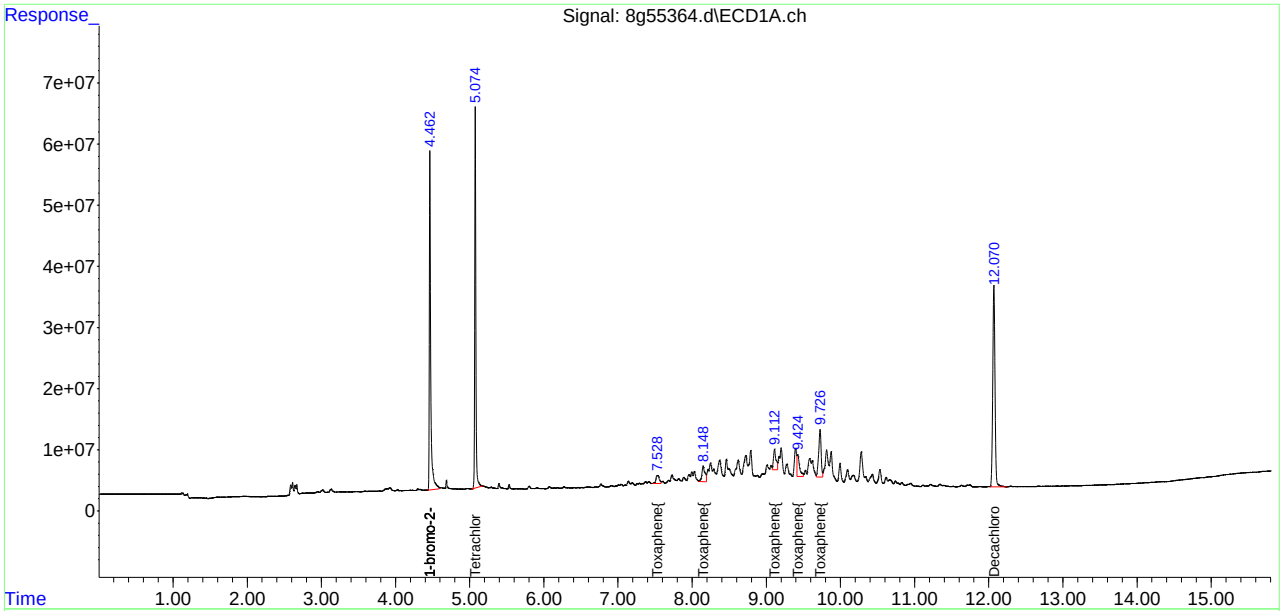
9.3.14
9

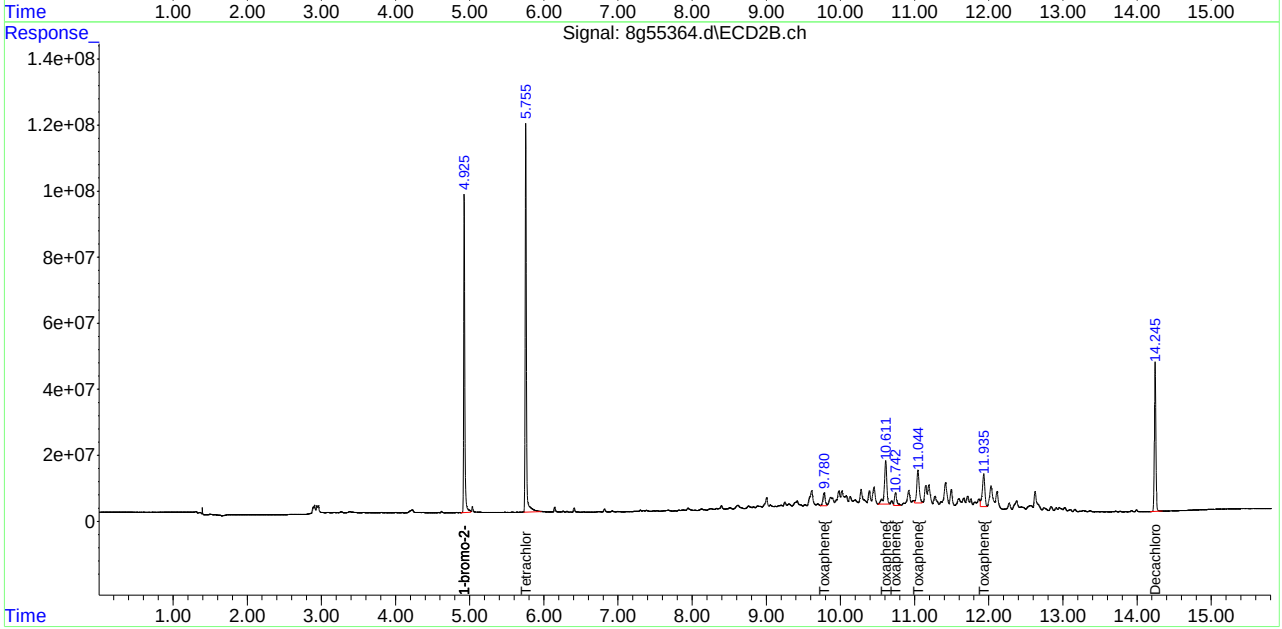
Quantitation Report (QT Reviewed)

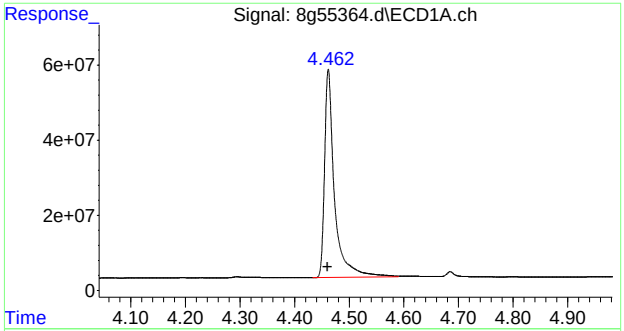
Data Path : C:\msdchem\1\DATA\G8G2430\
Data File : 8g55364.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Apr 2024 8:52 am
Operator : rebeccak
Sample : ic2430-50 (toxaphene)
Misc : op53462,g8g2430,5.0,,,10,1
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 10:34:07 2024
Quant Method : C:\msdchem\1\METHODS\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Wed Apr 03 10:21:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

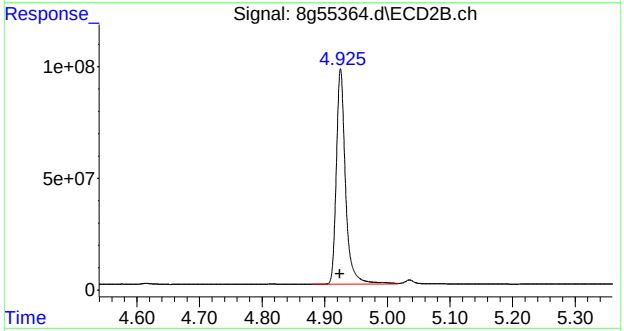






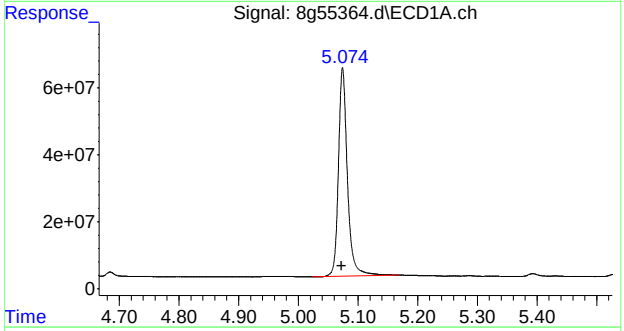
#1 1-bromo-2-nitrobenzene

R.T.: 4.462 min
Delta R.T.: 0.002 min
Response: 702235089
Conc: 5.00 PPB



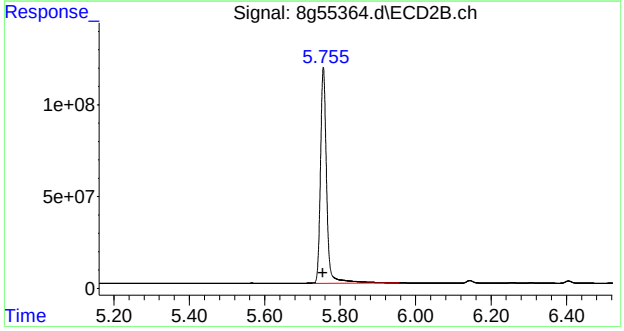
#1 1-bromo-2-nitrobenzene

R.T.: 4.925 min
Delta R.T.: 0.001 min
Response: 983174882
Conc: 5.00 PPB



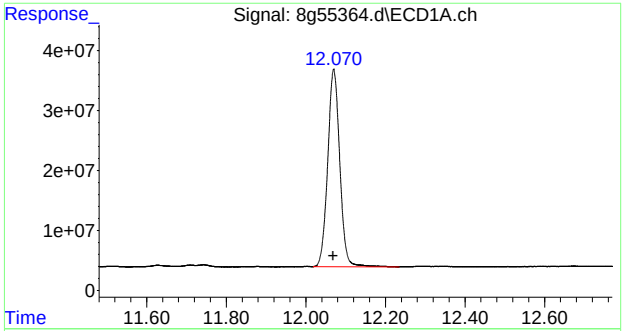
#2 Tetrachloro-m-xylene

R.T.: 5.074 min
Delta R.T.: 0.002 min
Response: 650398419
Conc: 4.44 PPB



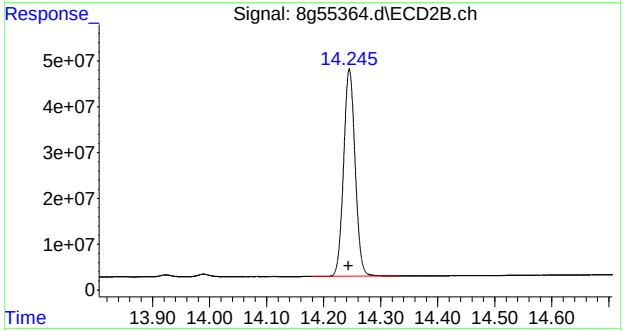
#2 Tetrachloro-m-xylene

R.T.: 5.755 min
Delta R.T.: 0.001 min
Response: 1331238973
Conc: 4.60 PPB



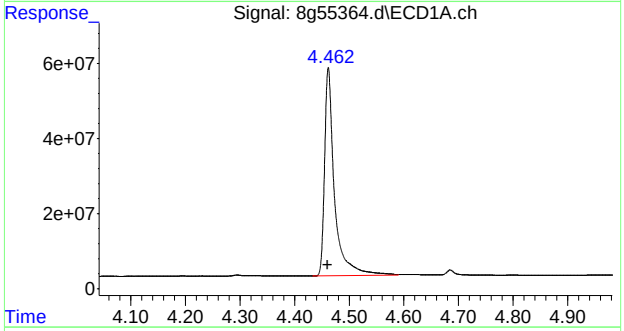
#26 Decachlorobiphenyl

R.T.: 12.070 min
Delta R.T.: 0.002 min
Response: 692283692
Conc: 4.38 PPB



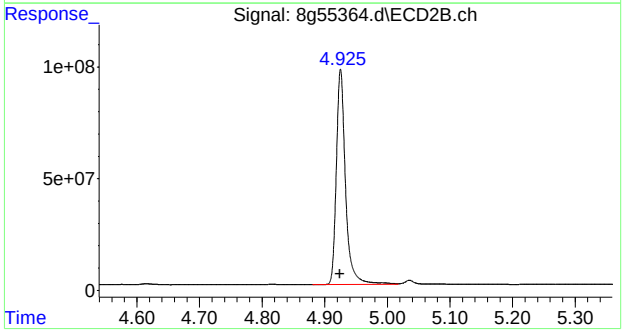
#26 Decachlorobiphenyl

R.T.: 14.245 min
Delta R.T.: 0.002 min
Response: 633138882
Conc: 4.62 PPB



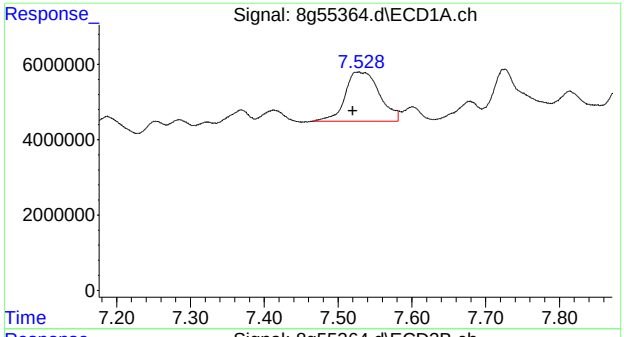
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.462 min
Delta R.T.: 0.002 min
Response: 702235089
Conc: 5.00 PPB



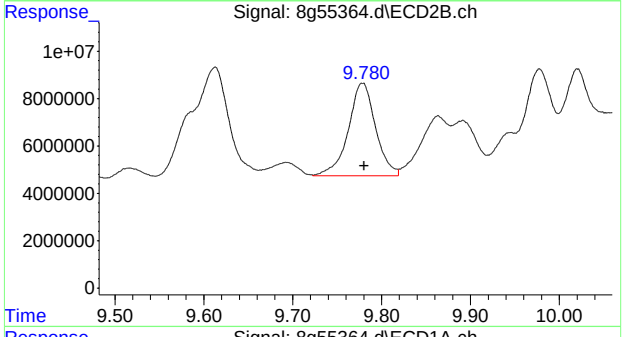
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.925 min
Delta R.T.: 0.001 min
Response: 983174882
Conc: 5.00 PPB



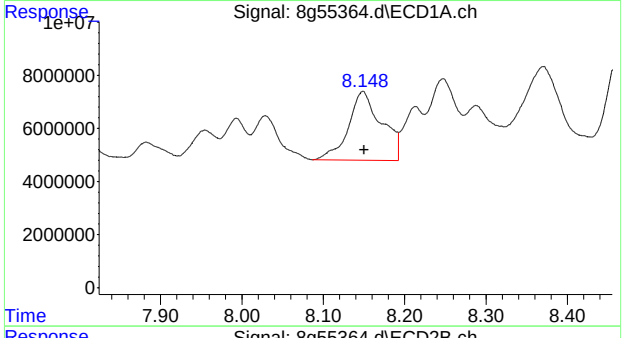
#28 Toxaphene{A}

R.T.: 7.528 min
Delta R.T.: 0.008 min
Response: 42085498
Conc: 95.96 PPB m



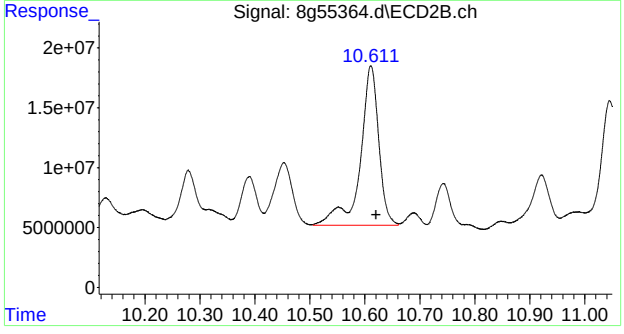
#28 Toxaphene{A}

R.T.: 9.780 min
Delta R.T.: 0.000 min
Response: 83609147
Conc: 94.21 PPB m



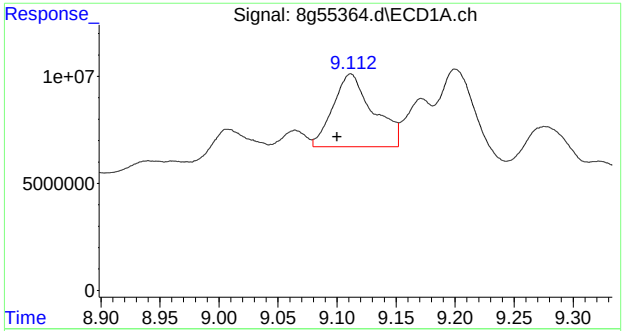
#29 Toxaphene{B}

R.T.: 8.149 min
Delta R.T.: -0.001 min
Response: 73526040
Conc: 33.96 PPB



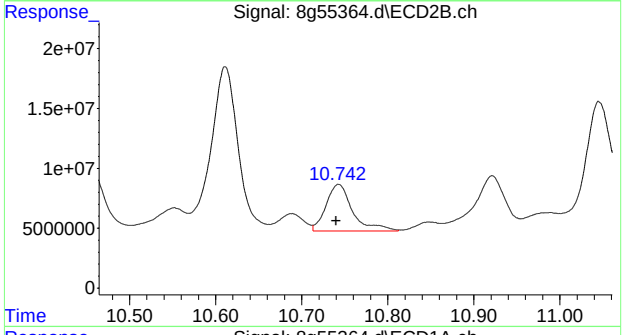
#29 Toxaphene{B}

R.T.: 10.611 min
Delta R.T.: -0.009 min
Response: 312065913
Conc: 290.52 PPB m



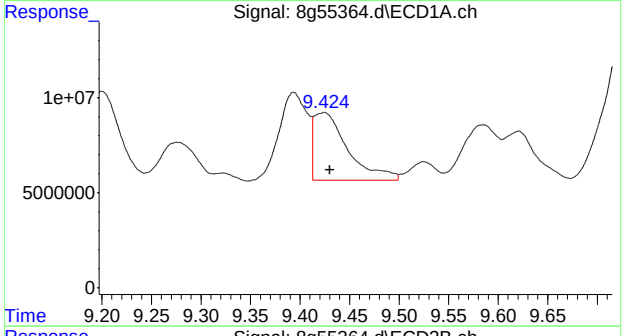
#30 Toxaphene{C}

R.T.: 9.112 min
Delta R.T.: 0.012 min
Response: 80193993
Conc: 59.25 PPB m



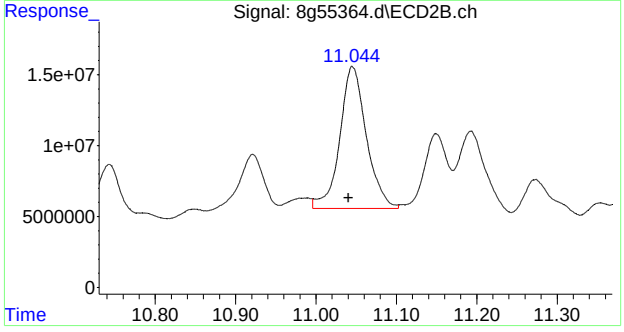
#30 Toxaphene{C}

R.T.: 10.742 min
Delta R.T.: 0.002 min
Response: 83315164
Conc: 59.30 PPB m



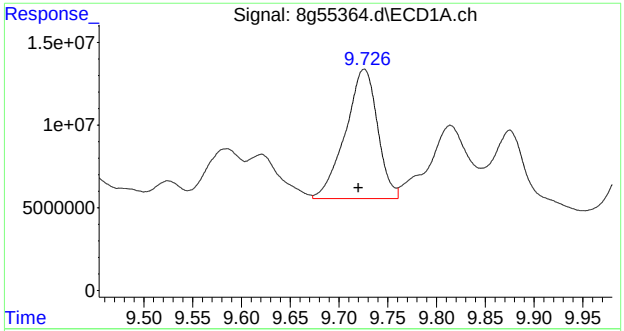
#31 Toxaphene{D}

R.T.: 9.424 min
Delta R.T.: -0.006 min
Response: 84049338
Conc: 75.56 PPB m



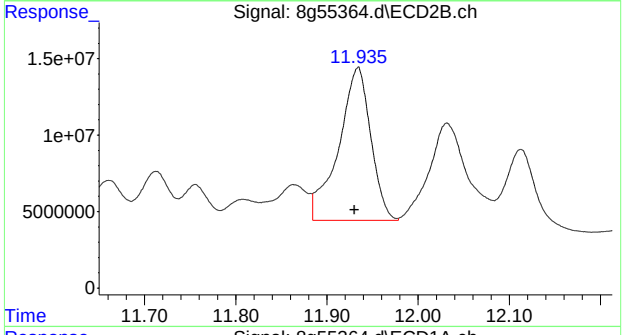
#31 Toxaphene{D}

R.T.: 11.044 min
Delta R.T.: 0.004 min
Response: 230063056
Conc: 79.12 PPB m



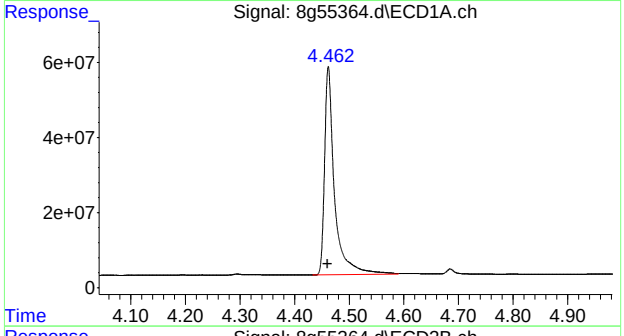
#32 Toxaphene{E}

R.T.: 9.726 min
Delta R.T.: 0.006 min
Response: 180091894
Conc: 51.02 PPB m



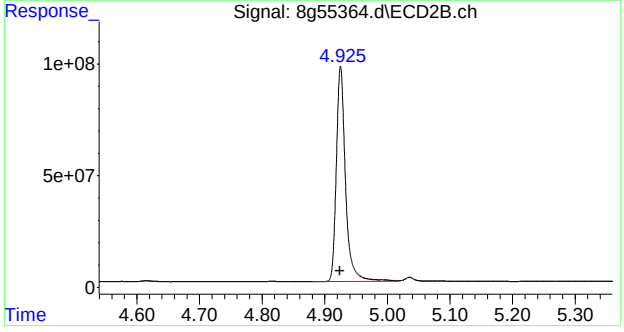
#32 Toxaphene{E}

R.T.: 11.935 min
Delta R.T.: 0.005 min
Response: 244293906
Conc: 80.84 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.462 min
Delta R.T.: 0.002 min
Response: 702235089
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.925 min
Delta R.T.: 0.001 min
Response: 983174882
Conc: 5.00 PPB

9.3.14
9

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
05/02/24 15:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G6081\
Data File : 2G231556.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Apr 2024 5:31 am
Operator : christp
Sample : ic6081-100
Misc : op53681,G2G6081,5.0,,,10,1
ALS Vial : 0 (Sig #1); 10 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:01:35 2024
Quant Method : C:\msdchem\1\METHODS\2PCBLVI6081.M
Quant Title :
QLast Update : Mon Apr 29 05:43:30 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	4.683	5.175	1829.4E6	2421.5E6	6.305	4.517 #
	Spiked Amount 40.000			Recovery	=	15.76%	11.29%
51) S	Decachlor...	11.309	12.425	1619.7E6	1499.1E6	7.577	5.168m#
	Spiked Amount 40.000			Recovery	=	18.94%	12.92%
	Target Compounds						
31)	AR1016-A	4.975	5.628	756.1E6	908.8E6	137.843	120.169
32)	AR1016-B	5.248	6.013	1503.0E6	1926.8E6	151.065	102.909 #
33)	AR1016-C	5.616	6.513	3259.5E6	4775.3E6	151.379	138.194m
34)	AR1016-D	5.744	6.677	1287.7E6	1772.2E6	159.920	110.656 #
35)	AR1016-E	6.092	7.322	1426.5E6	1466.4E6	152.643	107.568 #
36)	AR1260-A	8.532	10.413	4023.0E6	4882.5E6	188.614	124.225m#
37)	AR1260-B	8.774	10.512	2852.8E6	3347.4E6	226.887	119.915 #
38)	AR1260-C	9.244	10.846	2433.8E6	2893.4E6	185.256	131.716 #
39)	AR1260-D	9.741	11.091	6996.7E6	7402.5E6	233.358	148.082 #
40)	AR1260-E	10.124	11.450	6404.4E6	6211.6E6	214.785m	127.136m#

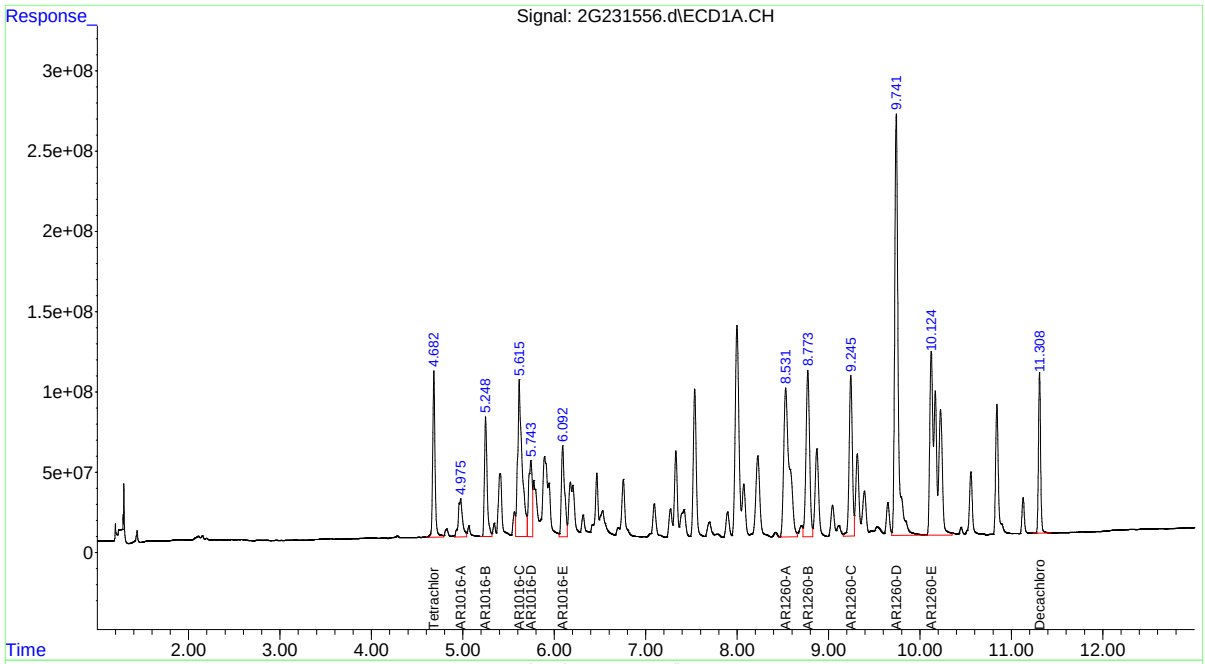
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

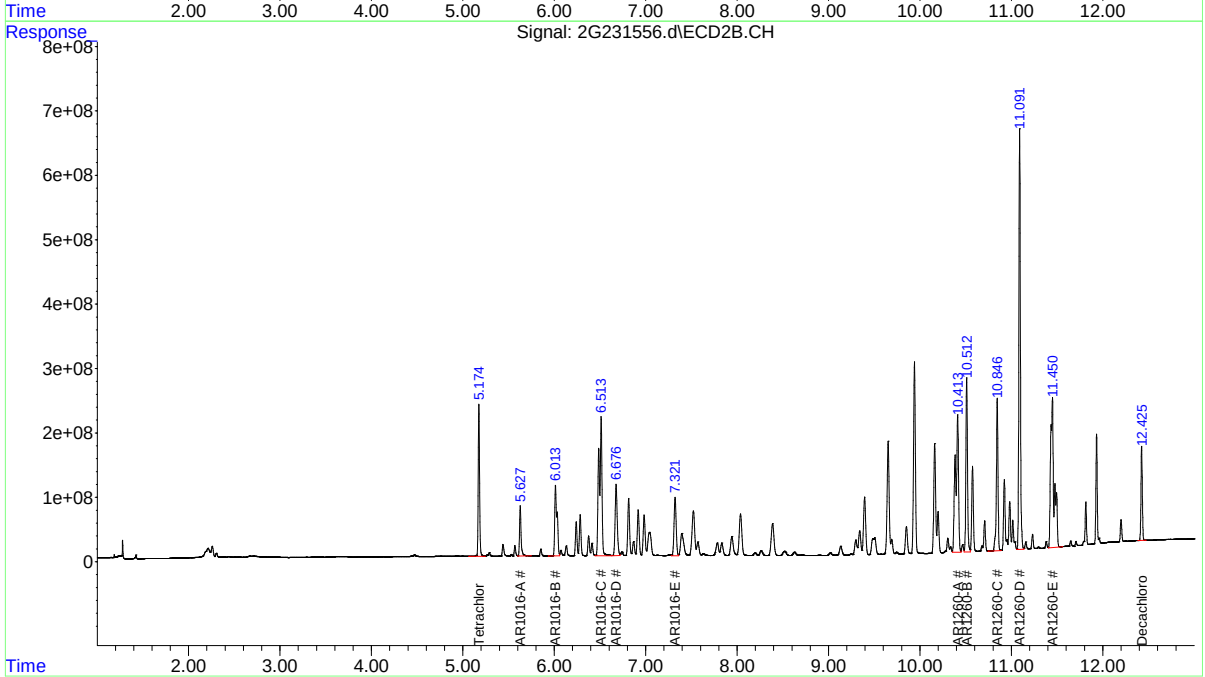
9.3.15
9

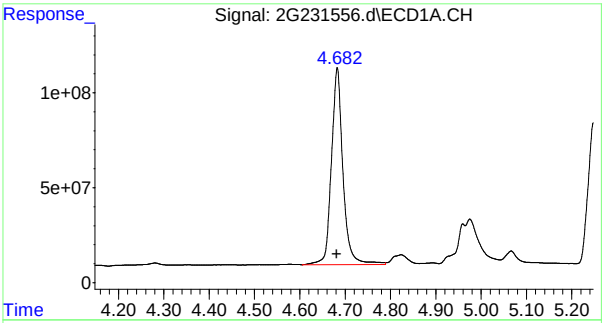
Data Path : C:\msdchem\1\DATA\2G6081\
Data File : 2G231556.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Apr 2024 5:31 am
Operator : christp
Sample : ic6081-100
Misc : op53681,G2G6081,5.0,,,10,1
ALS Vial : 0 (Sig #1); 10 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:01:35 2024
Quant Method : C:\msdchem\1\METHODS\2PCBLVI6081.M
Quant Title :
QLast Update : Mon Apr 29 05:43:30 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

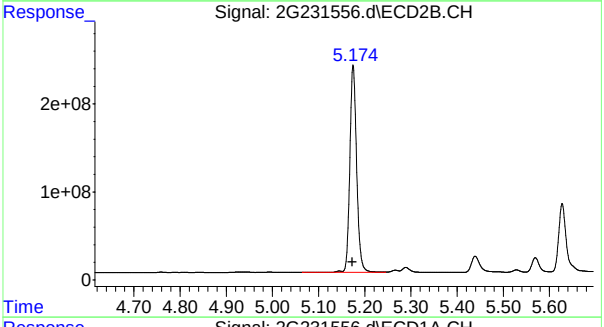






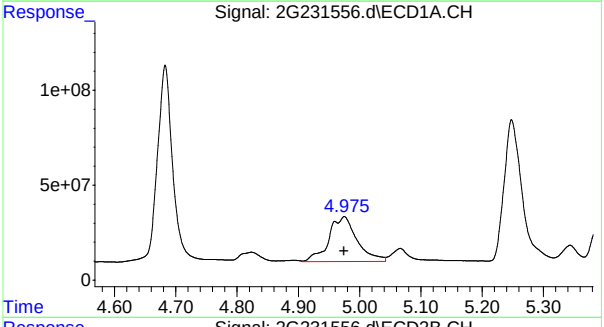
#1 Tetrachloro-m-xylene

R.T.: 4.683 min
Delta R.T.: 0.002 min
Response: 1829391817
Conc: 6.30 ppb



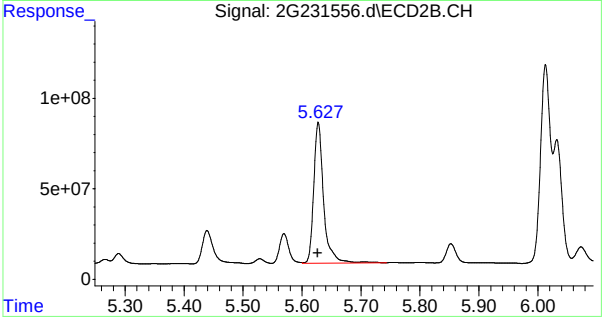
#1 Tetrachloro-m-xylene

R.T.: 5.175 min
Delta R.T.: 0.002 min
Response: 2421530567
Conc: 4.52 ppb



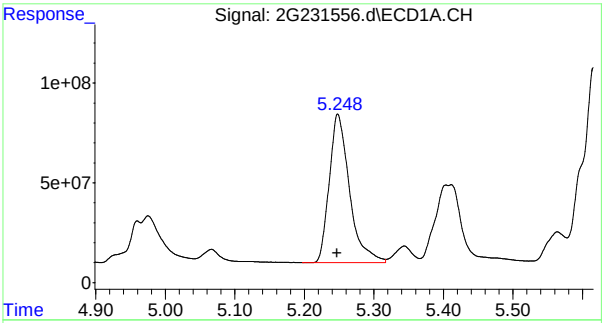
#31 AR1016-A

R.T.: 4.975 min
Delta R.T.: 0.001 min
Response: 756069791
Conc: 137.84 PPB



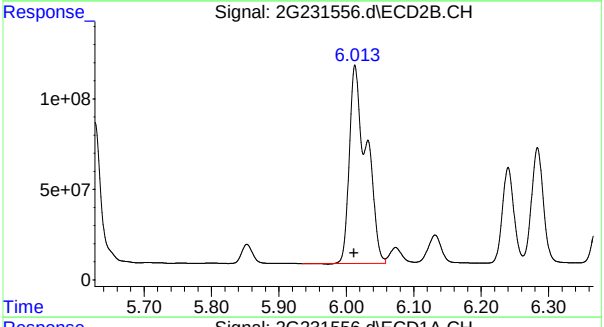
#31 AR1016-A

R.T.: 5.628 min
Delta R.T.: 0.001 min
Response: 908838401
Conc: 120.17 PPB



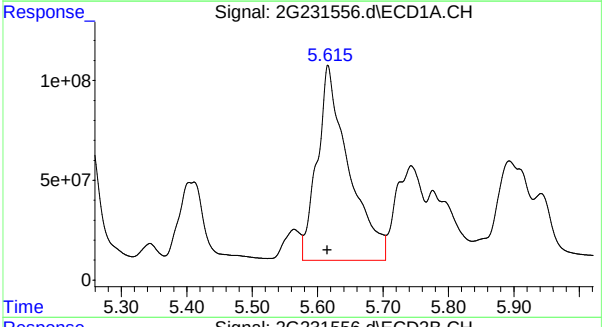
#32 AR1016-B

R.T.: 5.248 min
Delta R.T.: 0.002 min
Response: 1502954717
Conc: 151.06 PPB



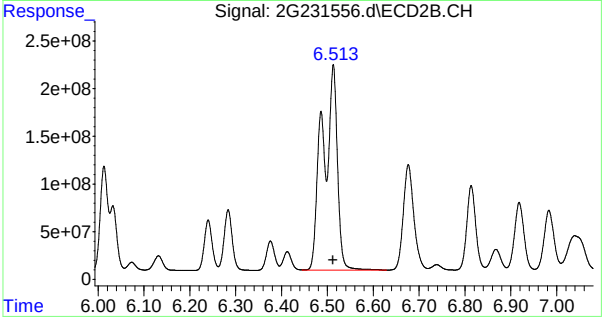
#32 AR1016-B

R.T.: 6.013 min
Delta R.T.: 0.002 min
Response: 1926797395
Conc: 102.91 PPB



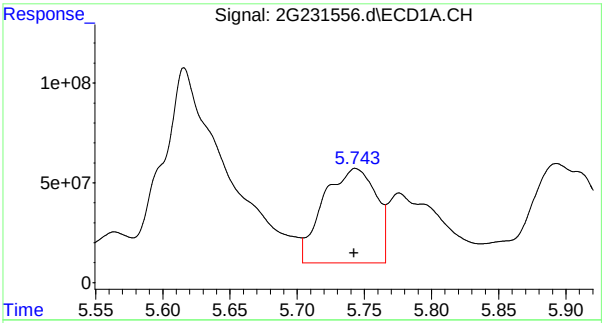
#33 AR1016-C

R.T.: 5.616 min
Delta R.T.: 0.001 min
Response: 3259512691
Conc: 151.38 PPB



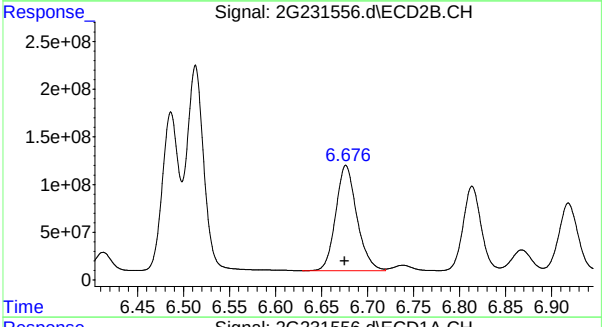
#33 AR1016-C

R.T.: 6.513 min
Delta R.T.: 0.000 min
Response: 4775342147
Conc: 138.19 PPB m



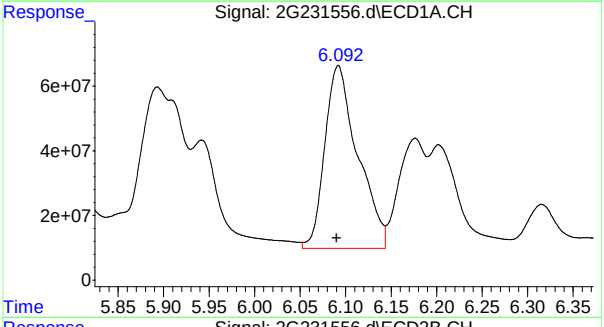
#34 AR1016-D

R.T.: 5.744 min
Delta R.T.: 0.001 min
Response: 1287701294
Conc: 159.92 PPB



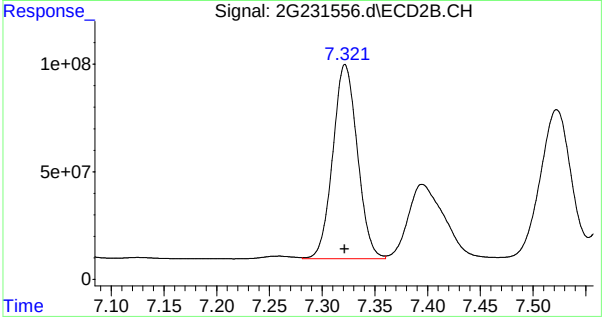
#34 AR1016-D

R.T.: 6.677 min
Delta R.T.: 0.001 min
Response: 1772168138
Conc: 110.66 PPB



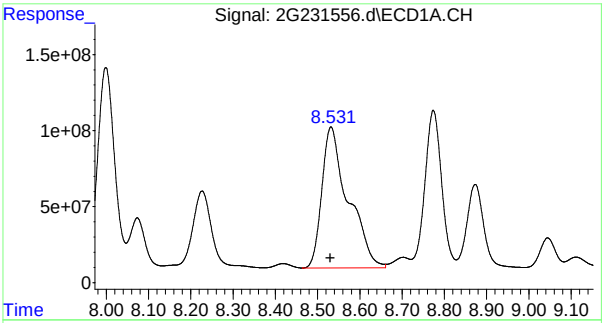
#35 AR1016-E

R.T.: 6.092 min
Delta R.T.: 0.002 min
Response: 1426479582
Conc: 152.64 PPB



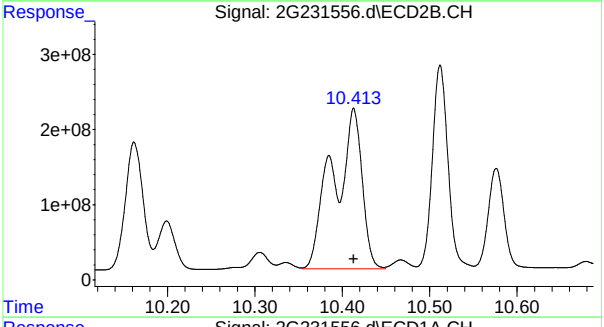
#35 AR1016-E

R.T.: 7.322 min
Delta R.T.: 0.000 min
Response: 1466393037
Conc: 107.57 PPB



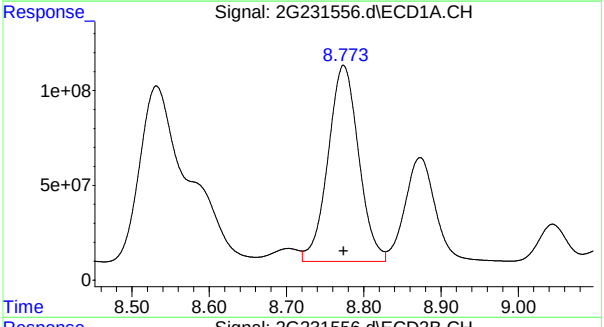
#36 AR1260-A

R.T.: 8.532 min
Delta R.T.: 0.002 min
Response: 4022959873
Conc: 188.61 PPB



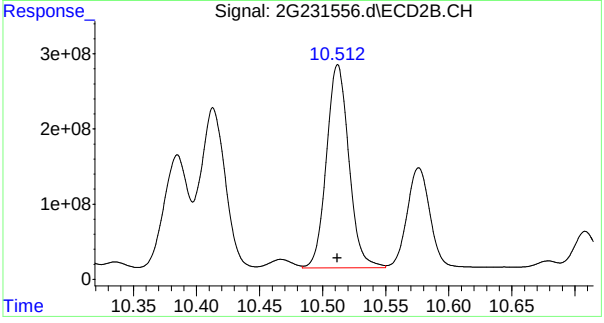
#36 AR1260-A

R.T.: 10.413 min
Delta R.T.: 0.000 min
Response: 4882520709
Conc: 124.22 PPB m



#37 AR1260-B

R.T.: 8.774 min
Delta R.T.: 0.000 min
Response: 2852823115
Conc: 226.89 PPB

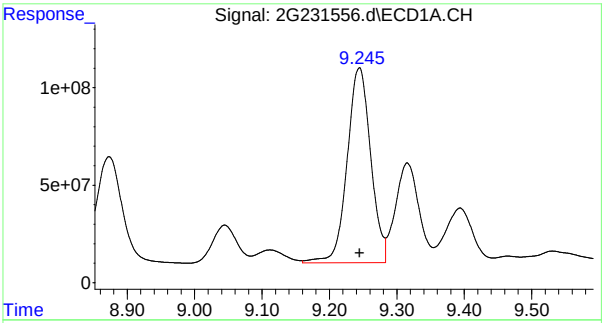


#37 AR1260-B

R.T.: 10.512 min
Delta R.T.: 0.000 min
Response: 3347422647
Conc: 119.92 PPB

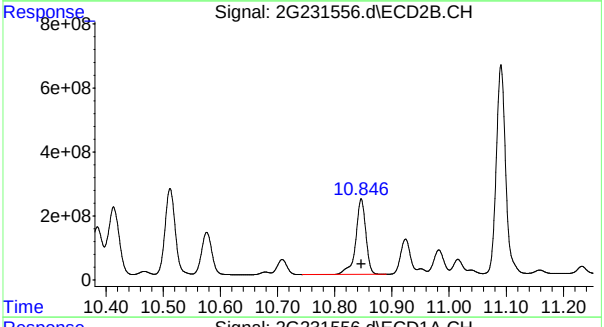
9.3.15

9



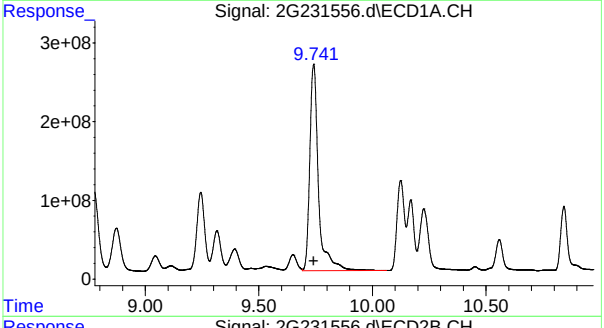
#38 AR1260-C

R.T.: 9.244 min
Delta R.T.: 0.000 min
Response: 2433764091
Conc: 185.26 PPB



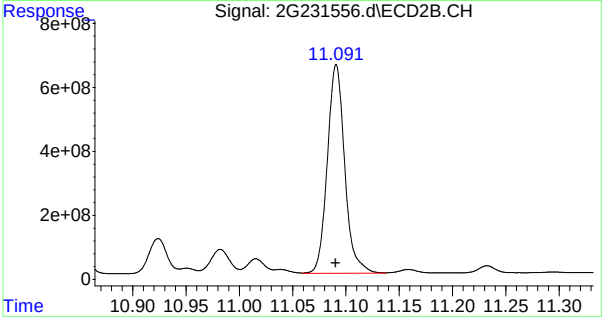
#38 AR1260-C

R.T.: 10.846 min
Delta R.T.: 0.000 min
Response: 2893420806
Conc: 131.72 PPB



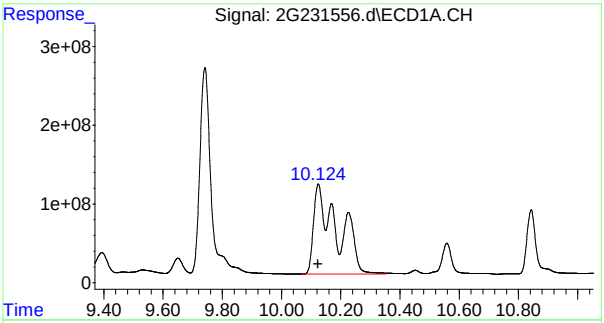
#39 AR1260-D

R.T.: 9.741 min
Delta R.T.: 0.001 min
Response: 6996704264
Conc: 233.36 PPB



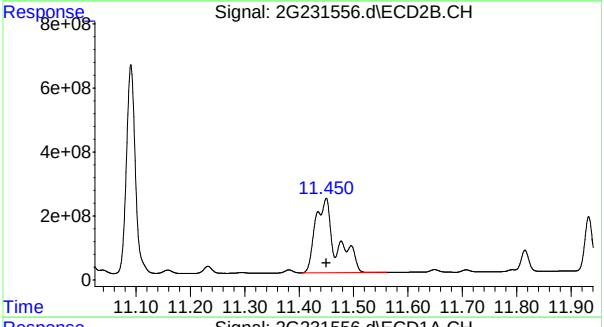
#39 AR1260-D

R.T.: 11.091 min
Delta R.T.: 0.000 min
Response: 7402547782
Conc: 148.08 PPB



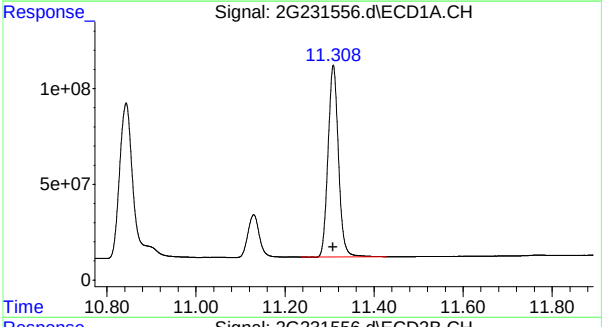
#40 AR1260-E

R.T.: 10.124 min
Delta R.T.: 0.000 min
Response: 6404405650
Conc: 214.79 PPB m



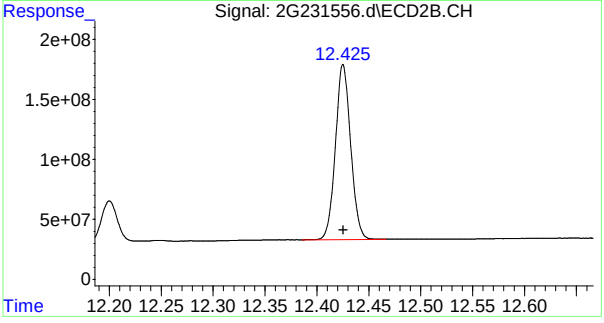
#40 AR1260-E

R.T.: 11.450 min
Delta R.T.: 0.000 min
Response: 6211623038
Conc: 127.14 PPB m



#51 Decachlorobiphenyl

R.T.: 11.309 min
Delta R.T.: 0.000 min
Response: 1619665188
Conc: 7.58 ppb



#51 Decachlorobiphenyl

R.T.: 12.425 min
Delta R.T.: 0.000 min
Response: 1499091023
Conc: 5.17 ppb m

Quantitation Report (QT Reviewed)

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/02/24 15:53

Data Path : C:\msdchem\1\DATA\2G6081\
Data File : 2G231563.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Apr 2024 8:27 am
Operator : christp
Sample : ic6081-100
Misc : op53681,G2G6081,5.0,,,10,1
ALS Vial : 0 (Sig #1); 17 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 17:49:01 2024
Quant Method : C:\msdchem\1\METHODS\2PCBLVI6081.M
Quant Title :
QLast Update : Mon Apr 29 17:48:07 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	4.680	5.173	1932.2E6	2470.2E6	6.659	4.608 #
	Spiked Amount 40.000			Recovery	=	16.65%	11.52%
51) S	Decachlor...	11.308	12.430	1731.4E6	1612.9E6	8.099	5.560 #
	Spiked Amount 40.000			Recovery	=	20.25%	13.90%
	Target Compounds						
2)	AR1221-A	4.256	4.758	263.7E6	283.8E6	120.631	127.799
3)	AR1221-B	4.822	5.438	455.8E6	639.0E6	173.796	126.636 #
4)	AR1221-C	4.974	5.627	1450.2E6	1526.8E6	174.109	126.889 #
5)	AR1221-D	5.247	6.072	203.5E6	469.1E6	148.028m	102.749m#
6)	AR1221-E	5.613	6.512	330.3E6	348.2E6	153.872	134.893

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

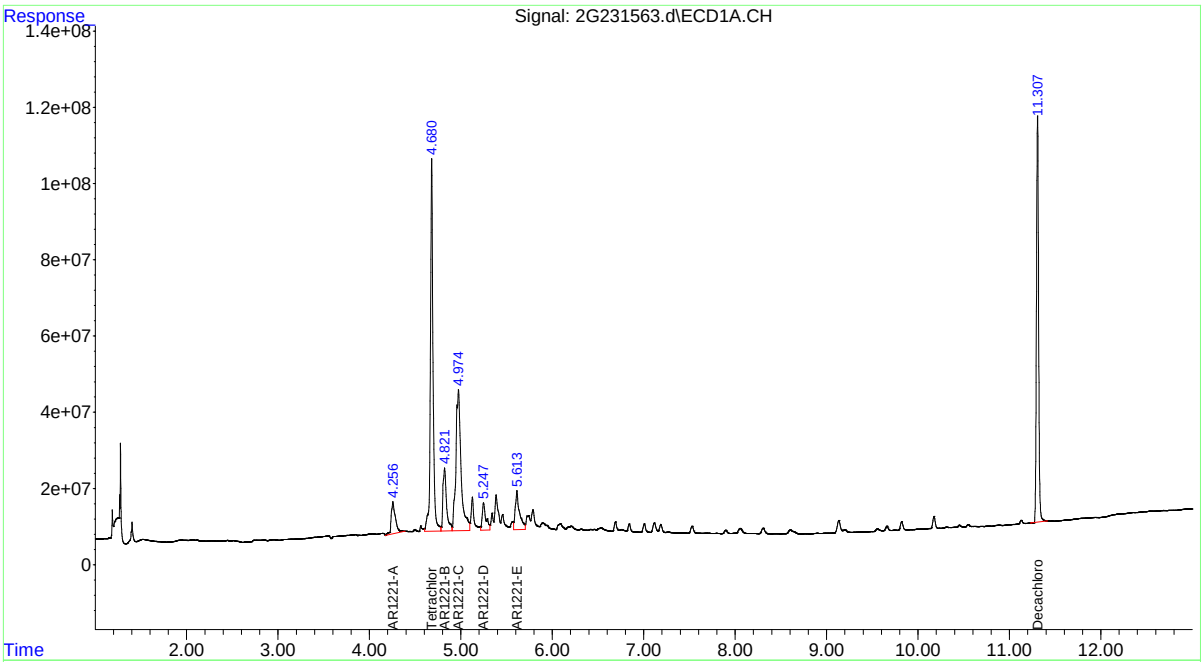
9.3.16

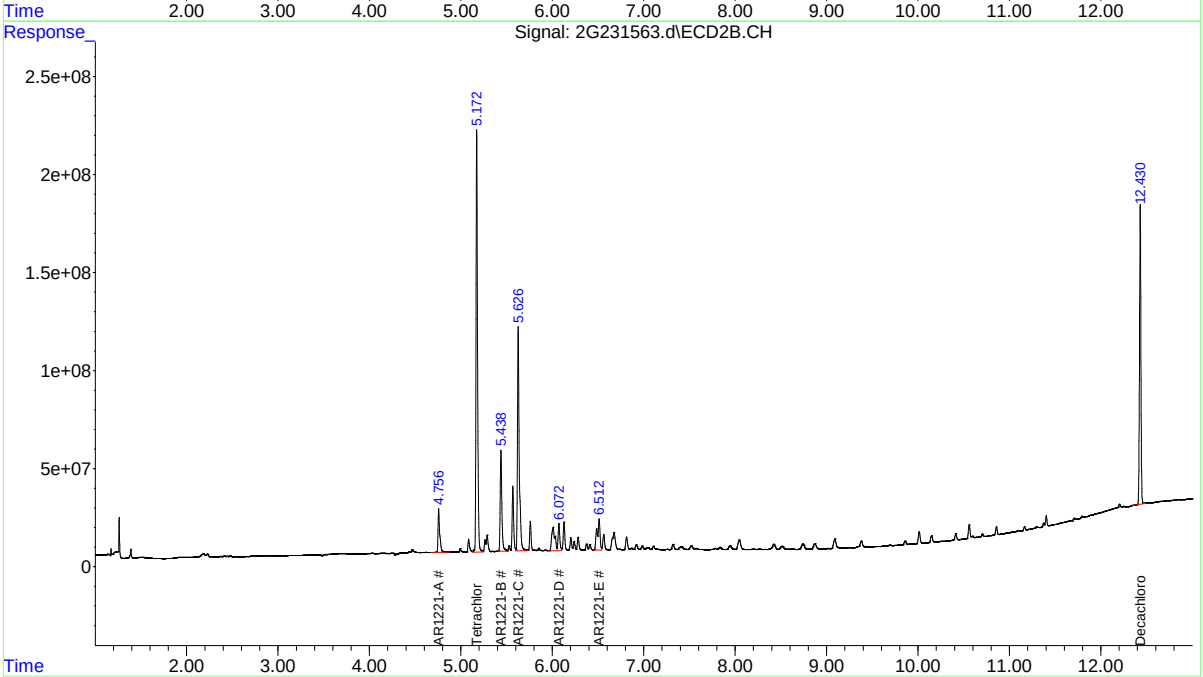
9

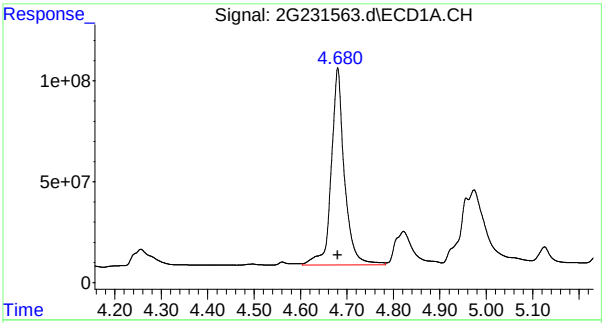
Data Path : C:\msdchem\1\DATA\2G6081\
Data File : 2G231563.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Apr 2024 8:27 am
Operator : christp
Sample : ic6081-100
Misc : op53681,G2G6081,5.0,,,10,1
ALS Vial : 0 (Sig #1); 17 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 17:49:01 2024
Quant Method : C:\msdchem\1\METHODS\2PCBLVI6081.M
Quant Title :
QLast Update : Mon Apr 29 17:48:07 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

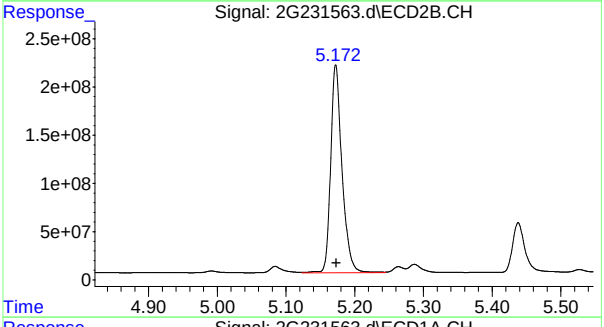






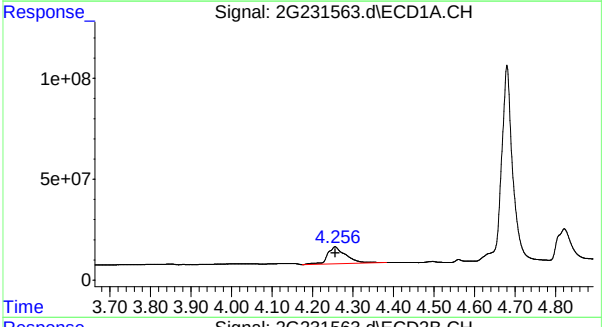
#1 Tetrachloro-m-xylene

R.T.: 4.680 min
Delta R.T.: 0.000 min
Response: 1932175326
Conc: 6.66 ppb



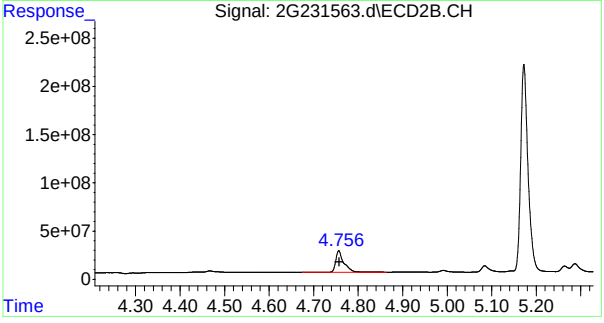
#1 Tetrachloro-m-xylene

R.T.: 5.173 min
Delta R.T.: 0.000 min
Response: 2470169171
Conc: 4.61 ppb



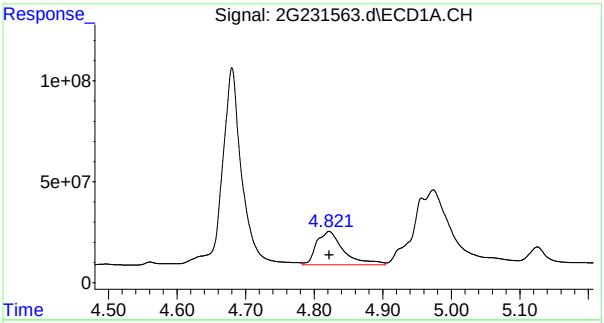
#2 AR1221-A

R.T.: 4.256 min
Delta R.T.: 0.000 min
Response: 263705647
Conc: 120.63 PPB



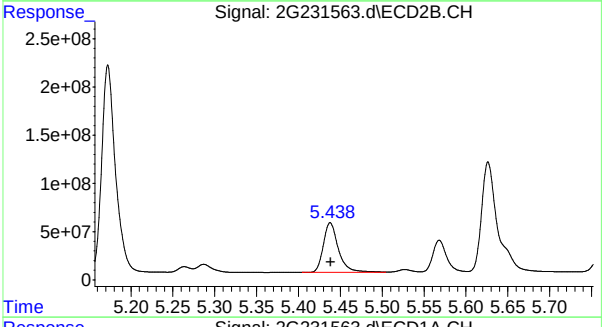
#2 AR1221-A

R.T.: 4.758 min
Delta R.T.: 0.000 min
Response: 283781480
Conc: 127.80 PPB



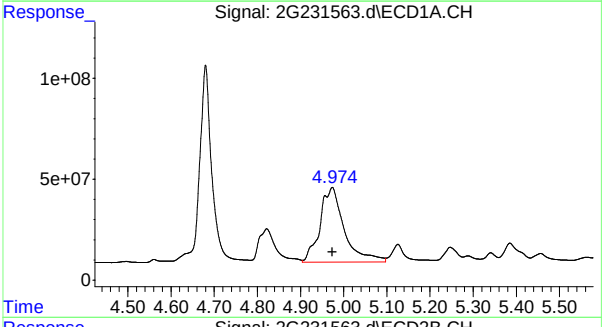
#3 AR1221-B

R.T.: 4.822 min
Delta R.T.: 0.000 min
Response: 455776195
Conc: 173.80 PPB



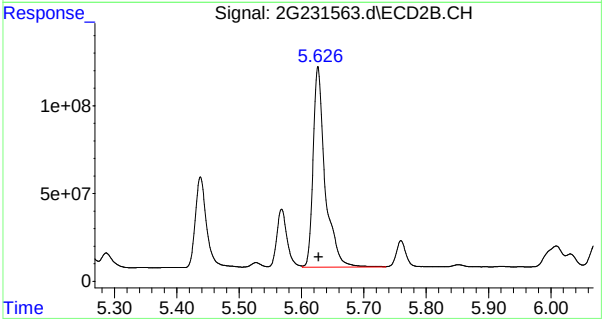
#3 AR1221-B

R.T.: 5.438 min
Delta R.T.: 0.000 min
Response: 639048258
Conc: 126.64 PPB



#4 AR1221-C

R.T.: 4.974 min
Delta R.T.: 0.000 min
Response: 1450202652
Conc: 174.11 PPB

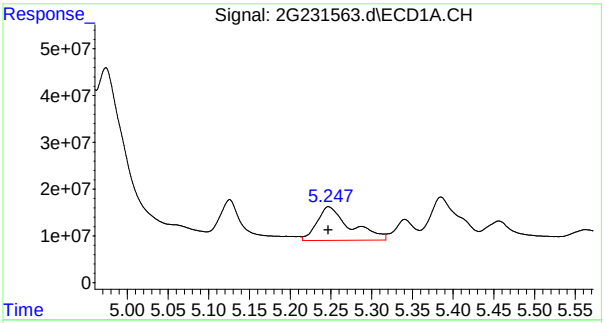


#4 AR1221-C

R.T.: 5.627 min
Delta R.T.: 0.000 min
Response: 1526765722
Conc: 126.89 PPB

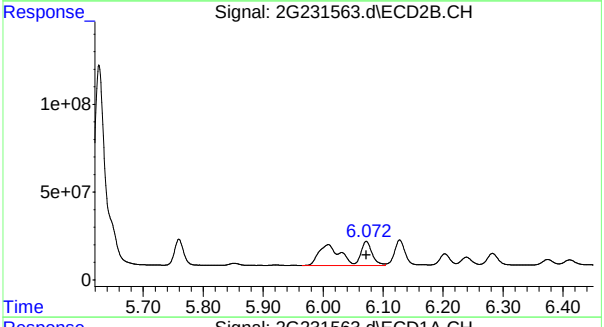
9.3.16

9



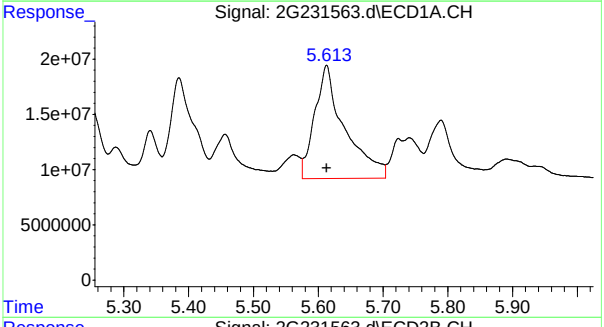
#5 AR1221-D

R.T.: 5.247 min
Delta R.T.: 0.000 min
Response: 203537576
Conc: 148.03 PPB m



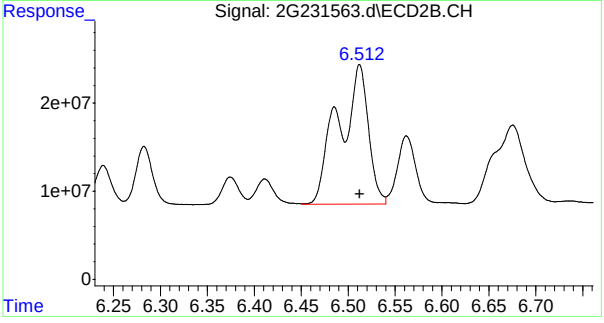
#5 AR1221-D

R.T.: 6.072 min
Delta R.T.: 0.000 min
Response: 469149333
Conc: 102.75 PPB m



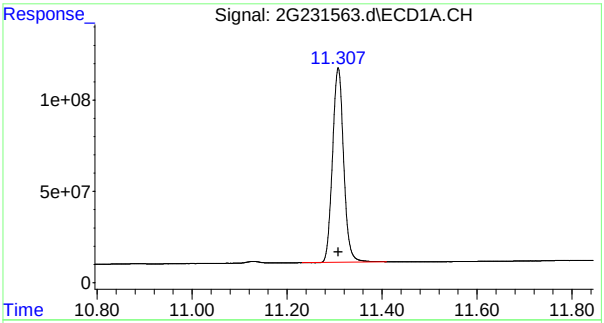
#6 AR1221-E

R.T.: 5.613 min
Delta R.T.: 0.000 min
Response: 330296850
Conc: 153.87 PPB



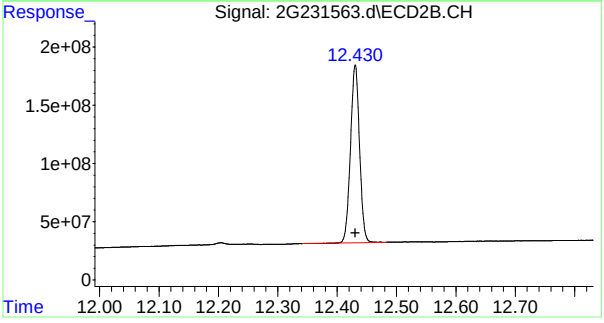
#6 AR1221-E

R.T.: 6.512 min
Delta R.T.: 0.000 min
Response: 348199384
Conc: 134.89 PPB



#51 Decachlorobiphenyl

R.T.: 11.308 min
Delta R.T.: 0.000 min
Response: 1731442736
Conc: 8.10 ppb



#51 Decachlorobiphenyl

R.T.: 12.430 min
Delta R.T.: 0.000 min
Response: 1612859793
Conc: 5.56 ppb

Quantitation Report (QT Reviewed)

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/02/24 15:53

Data Path : C:\msdchem\1\DATA\2G6081\
Data File : 2G231565.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Apr 2024 9:17 am
Operator : christp
Sample : ic6081-100
Misc : op53681,G2G6081,5.0,,,10,1
ALS Vial : 0 (Sig #1); 19 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 17:54:46 2024
Quant Method : C:\msdchem\1\METHODS\2PCBLVI6081.M
Quant Title :
QLast Update : Mon Apr 29 17:53:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
1)	S Tetrachlo...	4.682	5.175	1806.8E6	2336.5E6	6.227	4.358	#
	Spiked Amount 40.000			Recovery	=	15.57%	10.90%	
51)	S Decachlor...	11.309	12.428	1653.0E6	1530.7E6	7.732	5.277	#
	Spiked Amount 40.000			Recovery	=	19.33%	13.19%	
	Target Compounds							
7)	AR1232-A	4.975	5.628	997.4E6	1098.0E6	201.645	141.022	#
8)	AR1232-B	5.248	6.013	728.4E6	911.9E6	201.412	140.248	#
9)	AR1232-C	5.617	6.513	1419.8E6	2029.7E6	219.855	145.645	m#
10)	AR1232-D	5.745	6.676	555.4E6	755.7E6	229.896	147.714	m#
11)	AR1232-E	6.092	7.323	569.7E6	561.0E6	218.294	144.752	m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

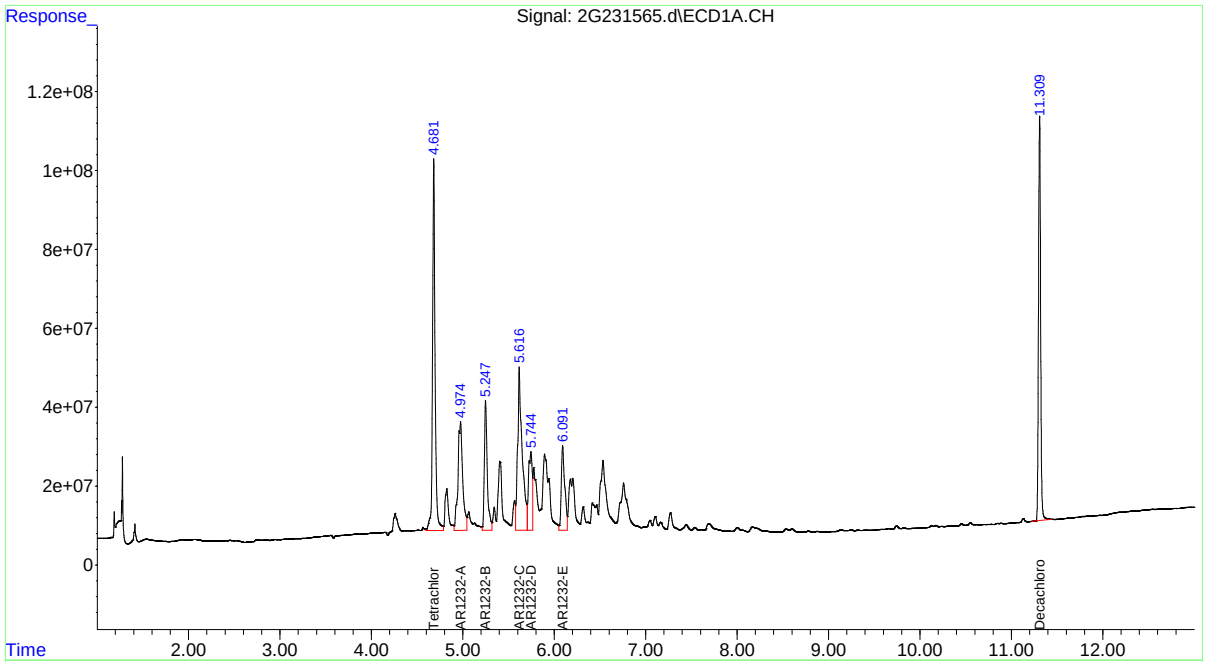
9.3.17

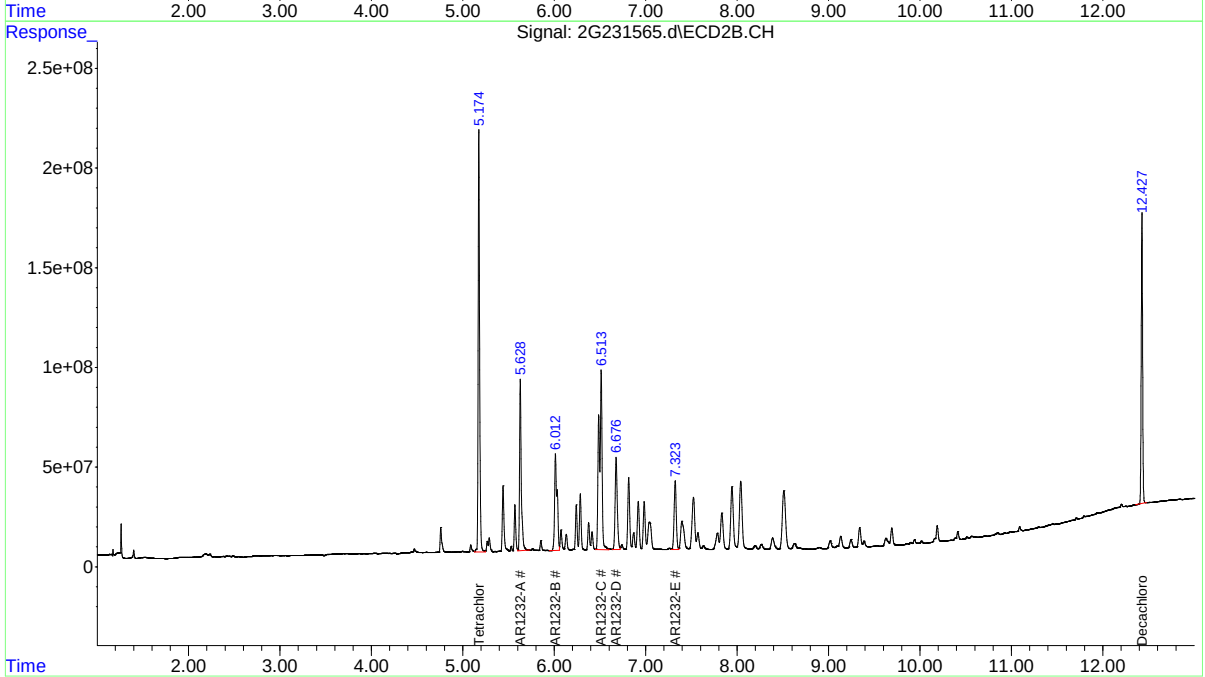
9

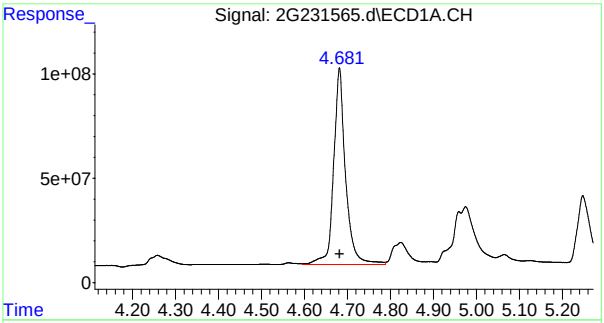
Data Path : C:\msdchem\1\DATA\2G6081\
Data File : 2G231565.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Apr 2024 9:17 am
Operator : christp
Sample : ic6081-100
Misc : op53681,G2G6081,5.0,,,10,1
ALS Vial : 0 (Sig #1); 19 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 17:54:46 2024
Quant Method : C:\msdchem\1\METHODS\2PCBLVI6081.M
Quant Title :
QLast Update : Mon Apr 29 17:53:11 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

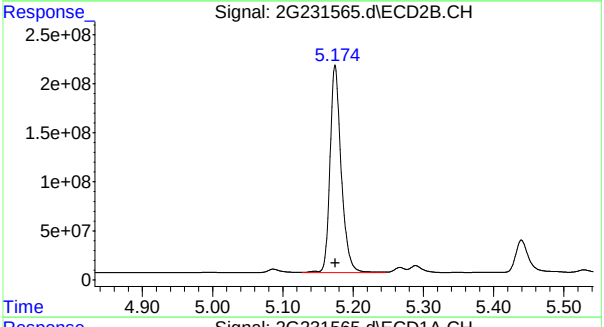






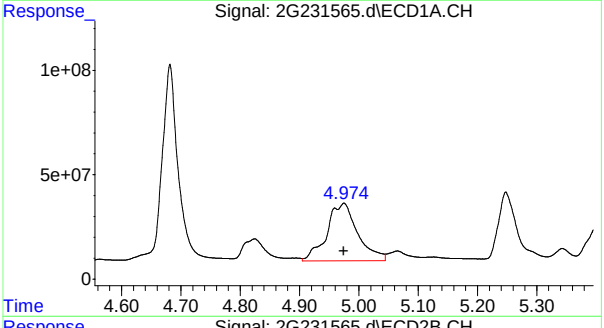
#1 Tetrachloro-m-xylene

R.T.: 4.682 min
Delta R.T.: 0.000 min
Response: 1806774887
Conc: 6.23 ppb



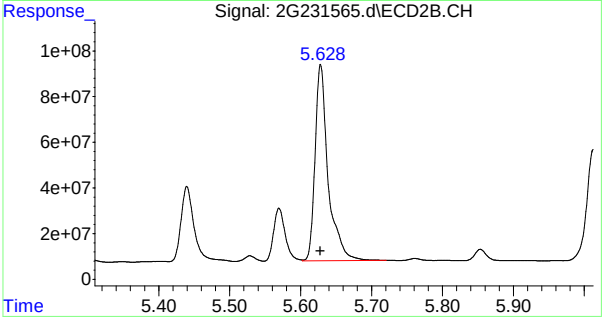
#1 Tetrachloro-m-xylene

R.T.: 5.175 min
Delta R.T.: 0.000 min
Response: 2336536234
Conc: 4.36 ppb



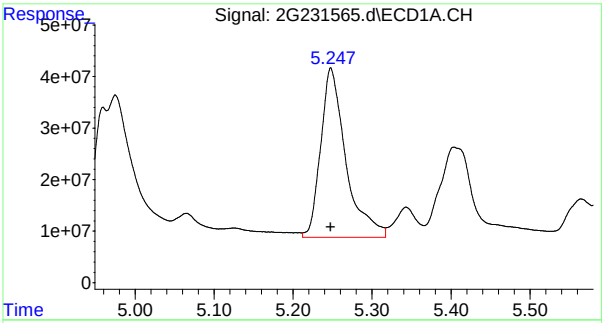
#7 AR1232-A

R.T.: 4.975 min
Delta R.T.: 0.000 min
Response: 997385436
Conc: 201.64 PPB



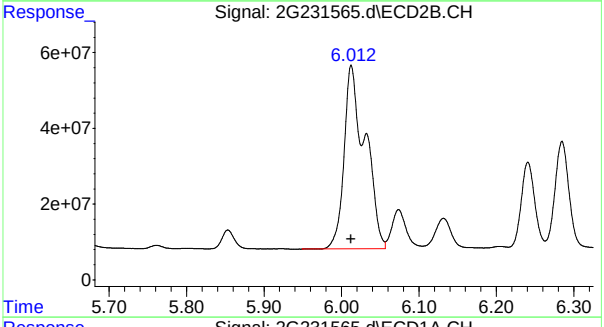
#7 AR1232-A

R.T.: 5.628 min
Delta R.T.: 0.000 min
Response: 1098047617
Conc: 141.02 PPB



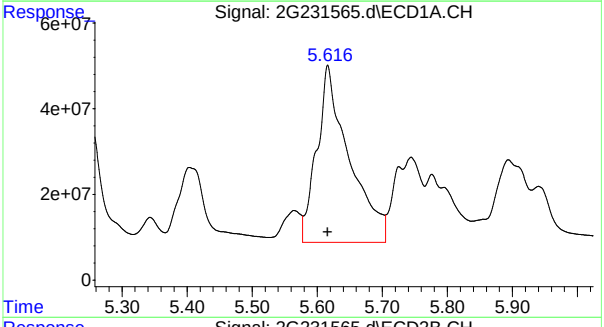
#8 AR1232-B

R.T.: 5.248 min
Delta R.T.: 0.000 min
Response: 728371540
Conc: 201.41 PPB



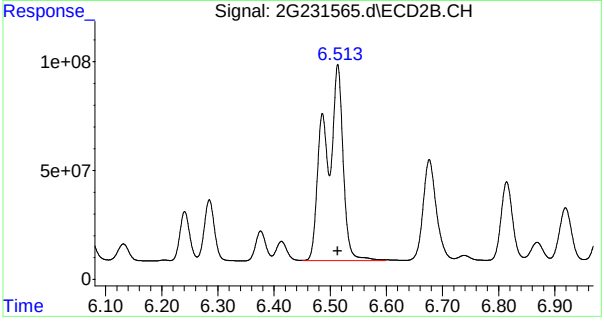
#8 AR1232-B

R.T.: 6.013 min
Delta R.T.: 0.000 min
Response: 911927917
Conc: 140.25 PPB



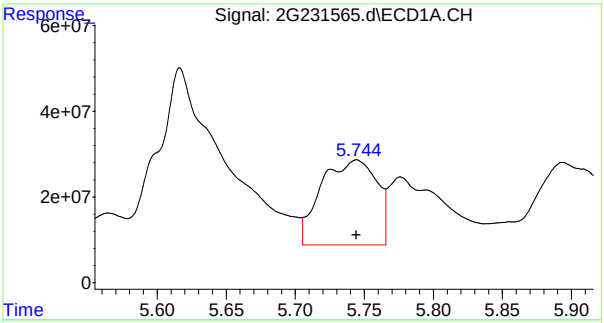
#9 AR1232-C

R.T.: 5.617 min
Delta R.T.: 0.000 min
Response: 1419831028
Conc: 219.86 PPB



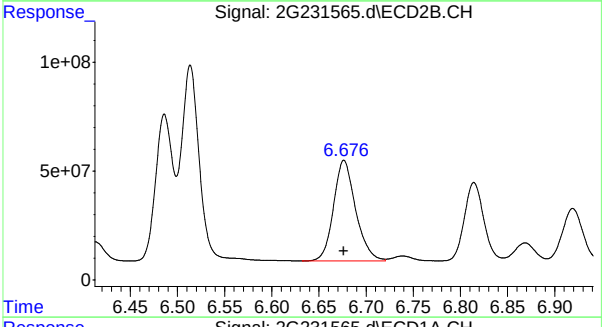
#9 AR1232-C

R.T.: 6.513 min
Delta R.T.: 0.000 min
Response: 2029676937
Conc: 145.64 PPB m



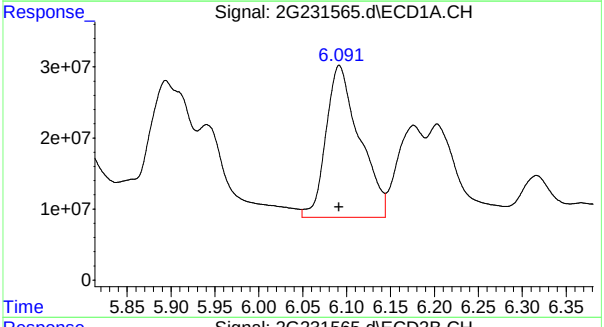
#10 AR1232-D

R.T.: 5.745 min
Delta R.T.: 0.000 min
Response: 555363959
Conc: 229.90 PPB



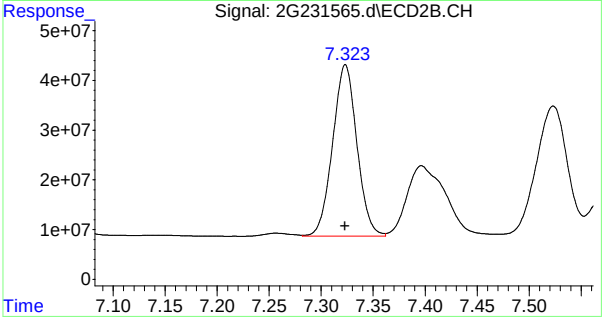
#10 AR1232-D

R.T.: 6.676 min
Delta R.T.: 0.000 min
Response: 755682463
Conc: 147.71 PPB m



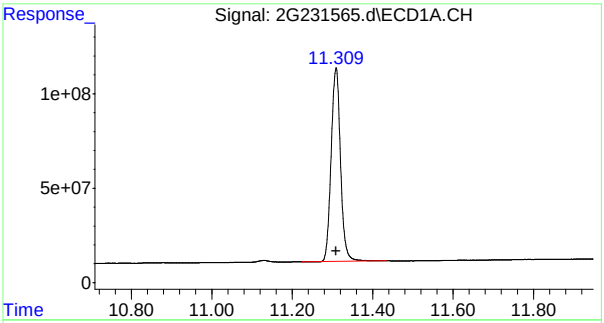
#11 AR1232-E

R.T.: 6.092 min
Delta R.T.: 0.000 min
Response: 569674709
Conc: 218.29 PPB



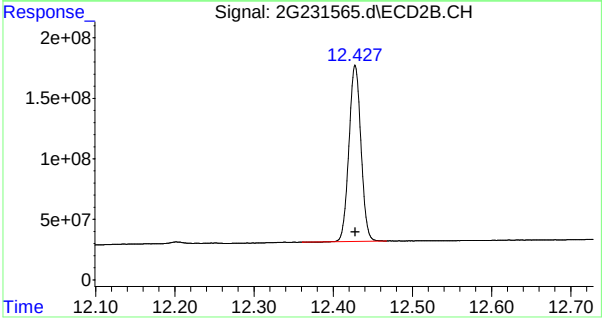
#11 AR1232-E

R.T.: 7.323 min
Delta R.T.: 0.000 min
Response: 561042689
Conc: 144.75 PPB m



#51 Decachlorobiphenyl

R.T.: 11.309 min
Delta R.T.: 0.000 min
Response: 1652984436
Conc: 7.73 ppb



#51 Decachlorobiphenyl

R.T.: 12.428 min
Delta R.T.: 0.000 min
Response: 1530731012
Conc: 5.28 ppb

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
05/02/24 15:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G6081\
Data File : 2G231566.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Apr 2024 9:42 am
Operator : christp
Sample : ic6081-100
Misc : op53681,G2G6081,5.0,,,10,1
ALS Vial : 0 (Sig #1); 20 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 17:58:30 2024
Quant Method : C:\msdchem\1\METHODS\2PCBLVI6081.M
Quant Title :
QLast Update : Mon Apr 29 17:57:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
1)	S Tetrachlo...	4.683	5.176	1765.0E6	2285.3E6	6.083	4.263	#
	Spiked Amount 40.000			Recovery	=	15.21%	10.66%	
51)	S Decachlor...	11.310	12.429	1638.2E6	1522.8E6	7.663	5.250	#
	Spiked Amount 40.000			Recovery	=	19.16%	13.13%	
	Target Compounds							
41)	AR1262-A	7.999	9.941	2625.2E6	3214.6E6	249.569	117.715	#
42)	AR1262-B	8.777	10.512	4181.2E6	4890.0E6	272.172	179.066	#
43)	AR1262-C	9.245	10.847	3096.2E6	3545.9E6	223.910	99.199	#
44)	AR1262-D	9.741	11.091	7889.9E6	8270.6E6	276.587	149.990	#
45)	AR1262-E	10.171	11.435	8341.3E6	8098.1E6	265.912m	148.492m	#

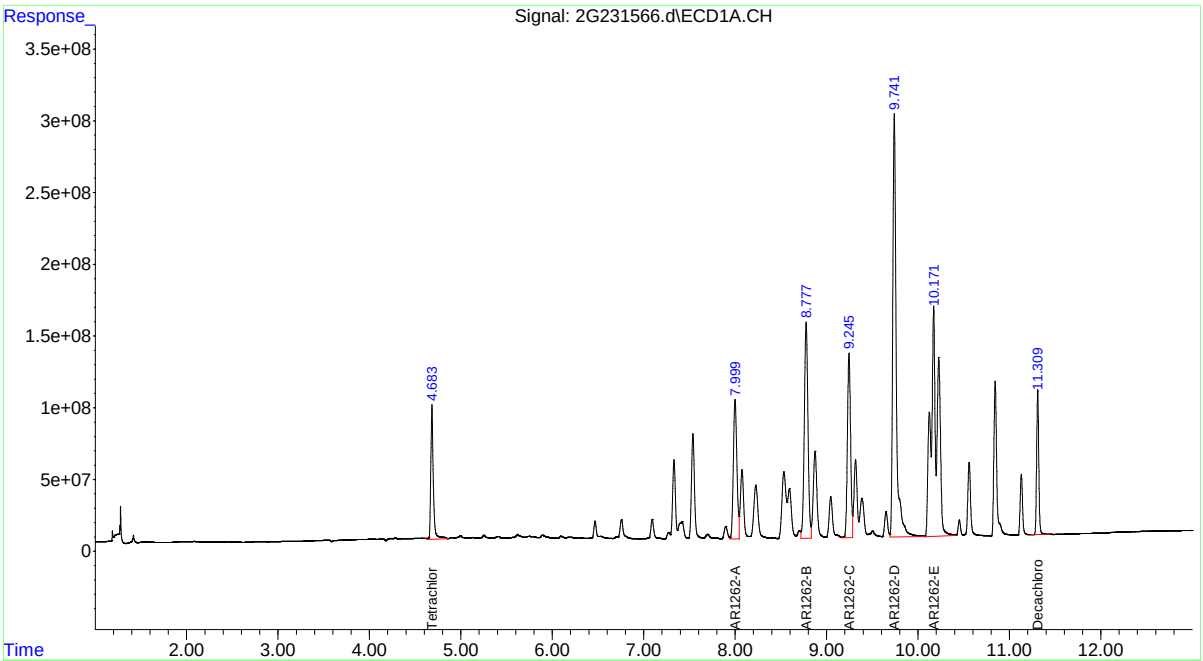
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

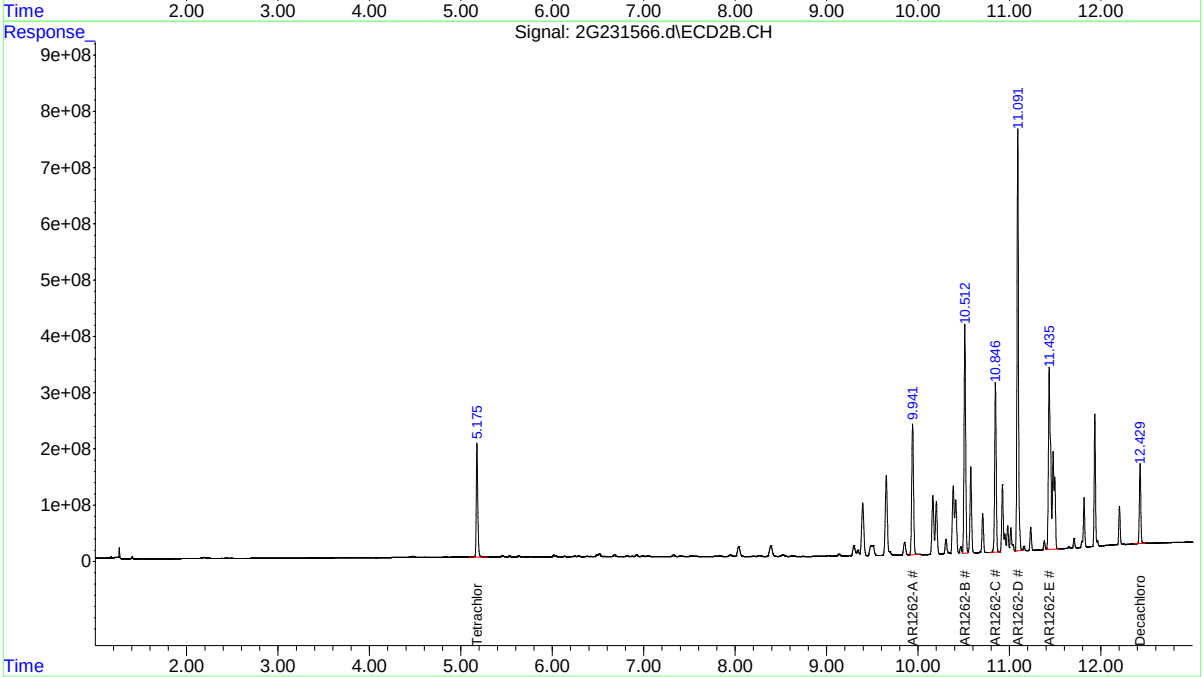
9.3.18
9

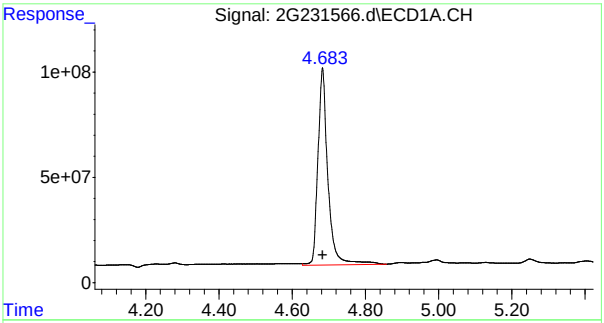
Data Path : C:\msdchem\1\DATA\2G6081\
Data File : 2G231566.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Apr 2024 9:42 am
Operator : christp
Sample : ic6081-100
Misc : op53681,G2G6081,5.0,,,10,1
ALS Vial : 0 (Sig #1); 20 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 17:58:30 2024
Quant Method : C:\msdchem\1\METHODS\2PCBLVI6081.M
Quant Title :
QLast Update : Mon Apr 29 17:57:06 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

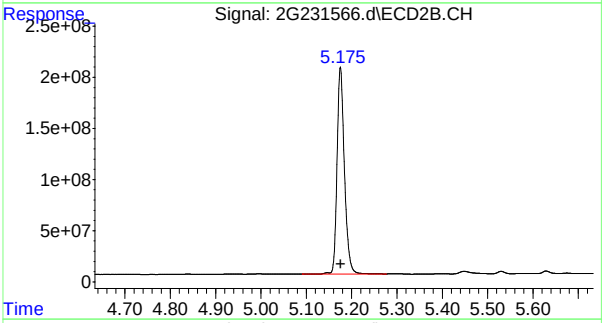






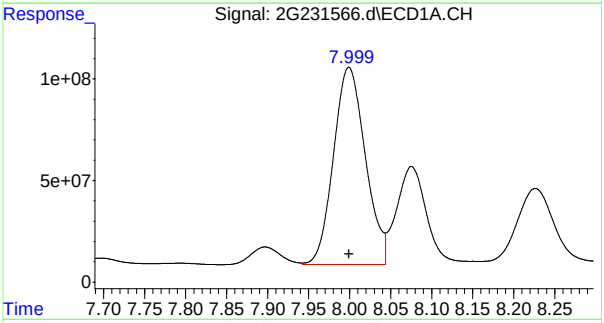
#1 Tetrachloro-m-xylene

R.T.: 4.683 min
Delta R.T.: 0.000 min
Response: 1765049564
Conc: 6.08 ppb



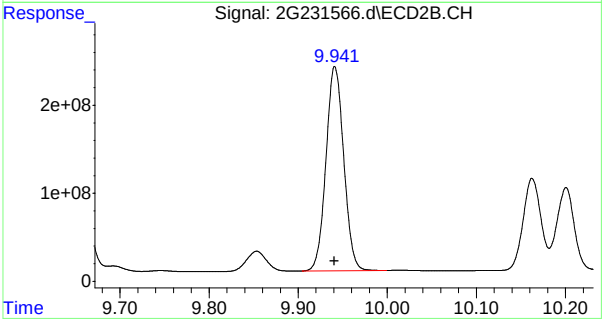
#1 Tetrachloro-m-xylene

R.T.: 5.176 min
Delta R.T.: 0.000 min
Response: 2285316380
Conc: 4.26 ppb



#41 AR1262-A

R.T.: 7.999 min
Delta R.T.: 0.000 min
Response: 2625162995
Conc: 249.57 PPB

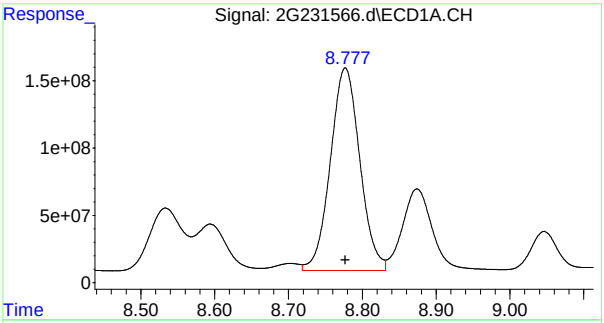


#41 AR1262-A

R.T.: 9.941 min
Delta R.T.: 0.000 min
Response: 3214615401
Conc: 117.72 PPB

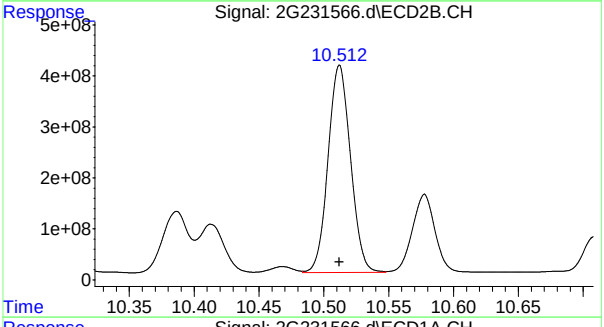
9.3.18

9



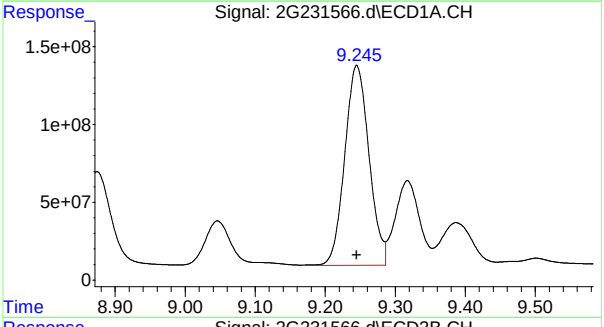
#42 AR1262-B

R.T.: 8.777 min
Delta R.T.: 0.000 min
Response: 4181222055
Conc: 272.17 PPB



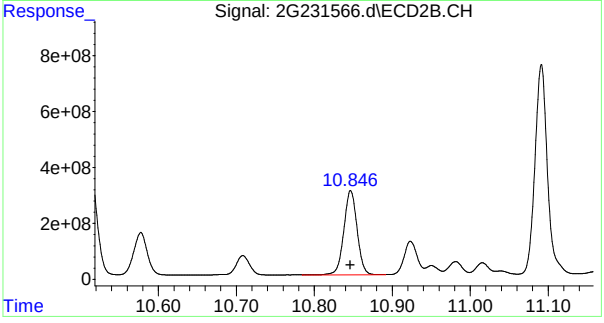
#42 AR1262-B

R.T.: 10.512 min
Delta R.T.: 0.000 min
Response: 4890000247
Conc: 179.07 PPB



#43 AR1262-C

R.T.: 9.245 min
Delta R.T.: 0.000 min
Response: 3096184740
Conc: 223.91 PPB

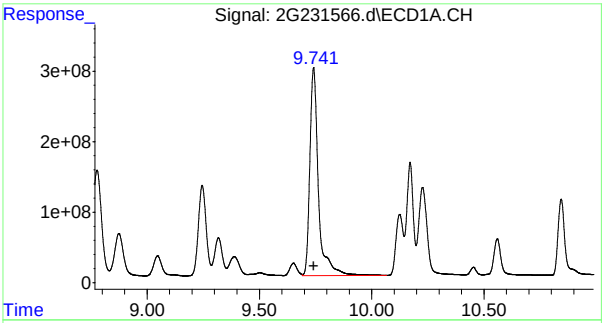


#43 AR1262-C

R.T.: 10.847 min
Delta R.T.: 0.000 min
Response: 3545903204
Conc: 99.20 PPB

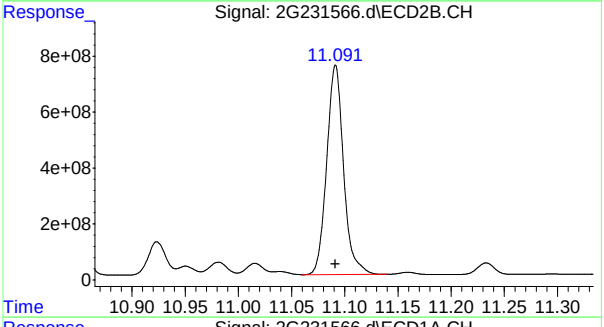
9.3.18

9



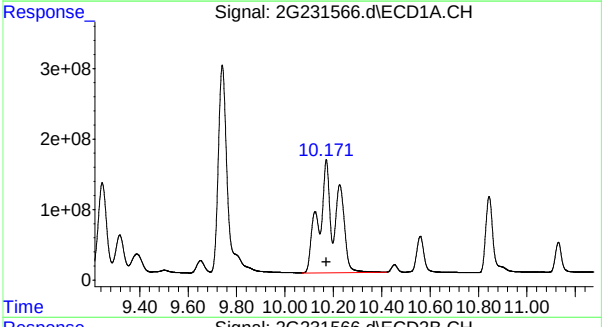
#44 AR1262-D

R.T.: 9.741 min
Delta R.T.: 0.000 min
Response: 7889940089
Conc: 276.59 PPB



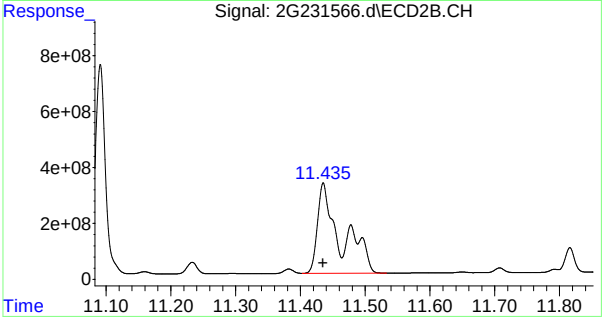
#44 AR1262-D

R.T.: 11.091 min
Delta R.T.: 0.000 min
Response: 8270642806
Conc: 149.99 PPB



#45 AR1262-E

R.T.: 10.171 min
Delta R.T.: 0.000 min
Response: 8341331519
Conc: 265.91 PPB m

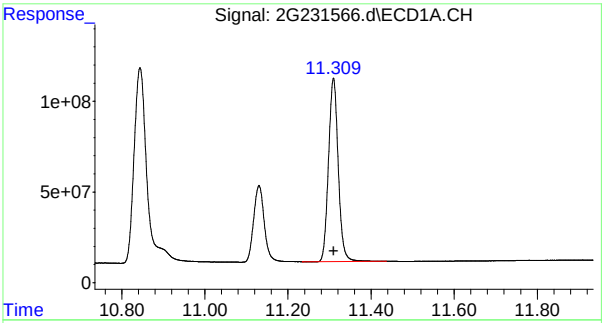


#45 AR1262-E

R.T.: 11.435 min
Delta R.T.: 0.000 min
Response: 8098076977
Conc: 148.49 PPB m

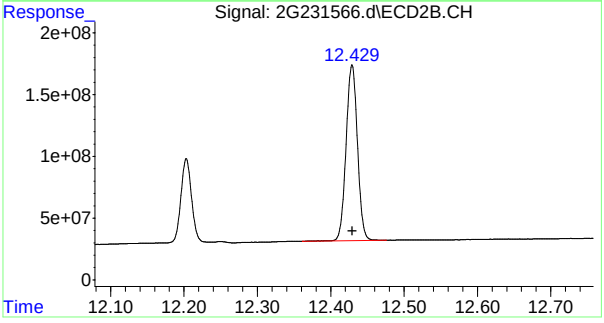
9.3.18

9



#51 Decachlorobiphenyl

R.T.: 11.310 min
Delta R.T.: 0.000 min
Response: 1638198588
Conc: 7.66 ppb



#51 Decachlorobiphenyl

R.T.: 12.429 min
Delta R.T.: 0.000 min
Response: 1522814794
Conc: 5.25 ppb

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G6081\
Data File : 2G231568.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Apr 2024 10:32 am
Operator : christp
Sample : ic6081-100
Misc : op53681,G2G6081,5.0,,,10,1
ALS Vial : 0 (Sig #1); 22 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 18:05:56 2024
Quant Method : C:\msdchem\1\METHODS\2PCBLVI6081.M
Quant Title :
QLast Update : Mon Apr 29 18:05:38 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

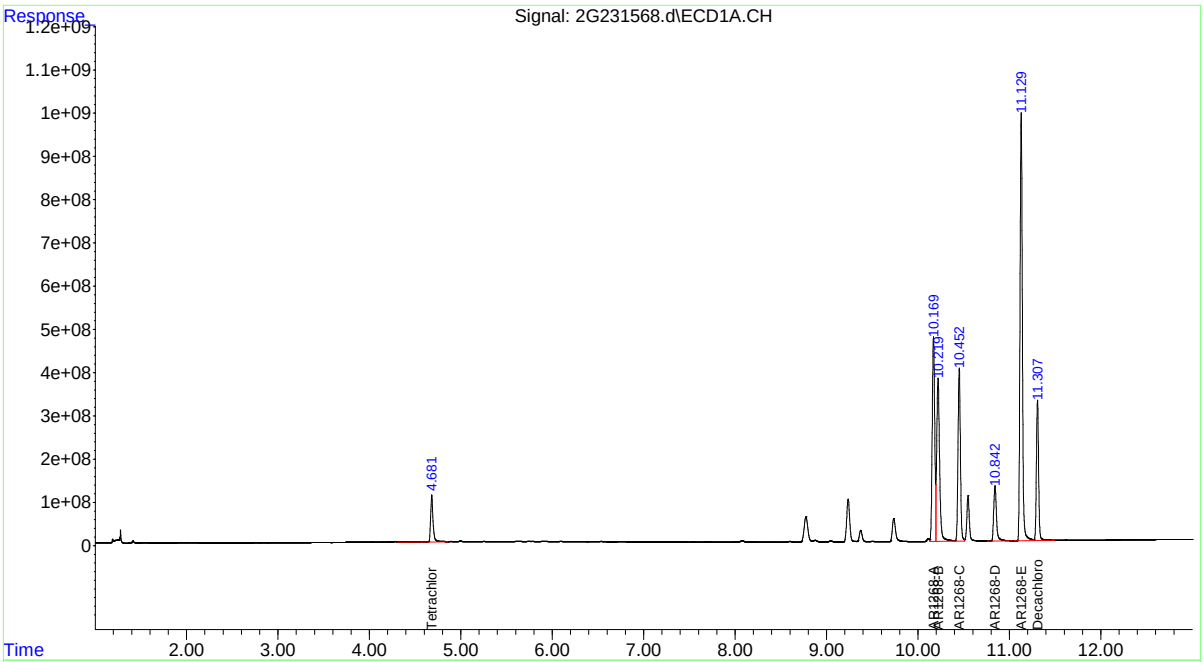
	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
1)	S Tetrachlo...	4.682	5.174	2091.8E6	2617.0E6	7.209	4.881	#
	Spiked Amount 40.000			Recovery	=	18.02%	12.20%	
51)	S Decachlor...	11.308	12.427	5442.2E6	5238.4E6	25.458	18.059	#
	Spiked Amount 40.000			Recovery	=	63.64%	45.15%	
	Target Compounds							
46)	AR1268-A	10.170	11.433	8874.6E6	9681.2E6	267.927	153.457	#
47)	AR1268-B	10.220	11.476	8403.5E6	8173.5E6	225.896	145.074	#
48)	AR1268-C	10.452	11.707	7161.4E6	7080.0E6	249.071	149.925	#
49)	AR1268-D	10.843	11.933	2634.6E6	2751.5E6	239.829	151.760	#
50)	AR1268-E	11.130	12.203	17679.5E6	18776.9E6	217.521	145.921	#

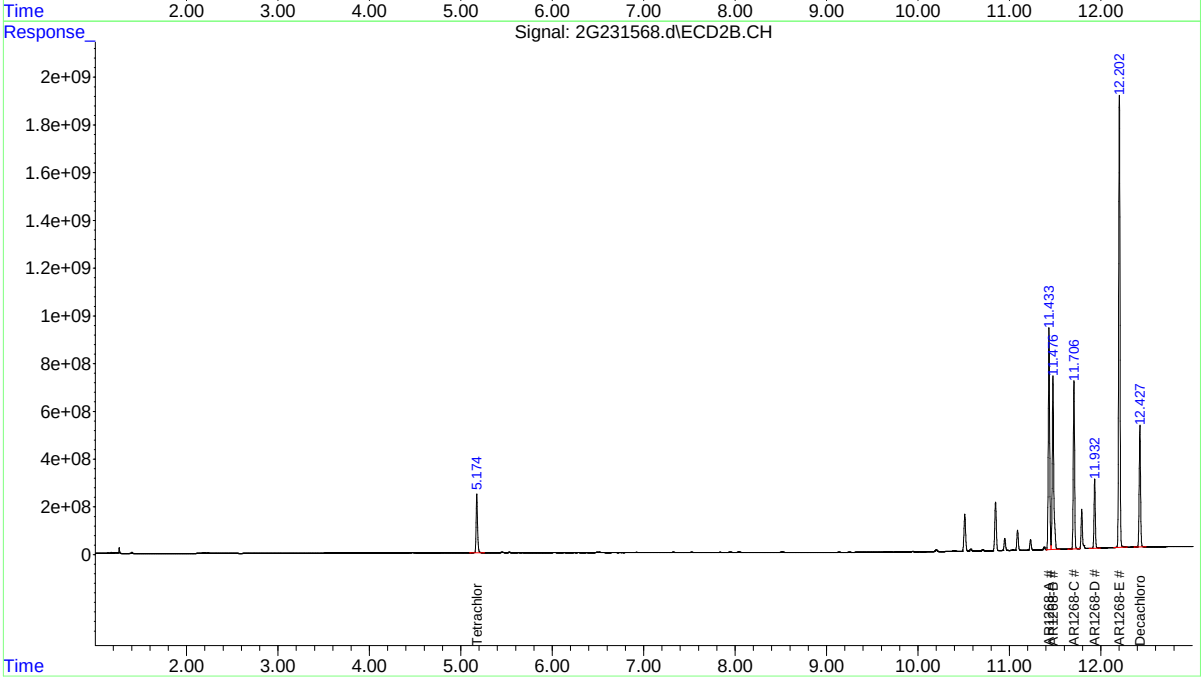
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

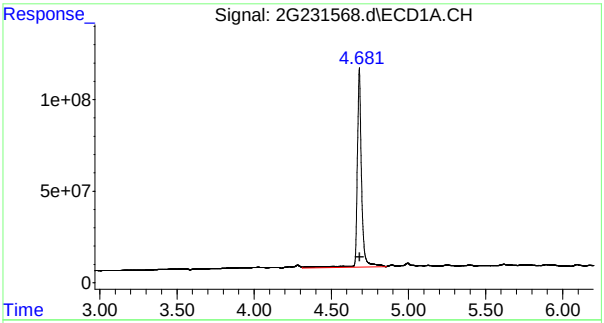
Data Path : C:\msdchem\1\DATA\2G6081\
Data File : 2G231568.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Apr 2024 10:32 am
Operator : christp
Sample : ic6081-100
Misc : op53681,G2G6081,5.0,,,10,1
ALS Vial : 0 (Sig #1); 22 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 18:05:56 2024
Quant Method : C:\msdchem\1\METHODS\2PCBLVI6081.M
Quant Title :
QLast Update : Mon Apr 29 18:05:38 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

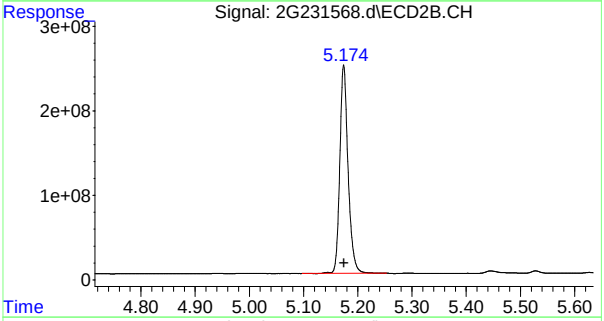






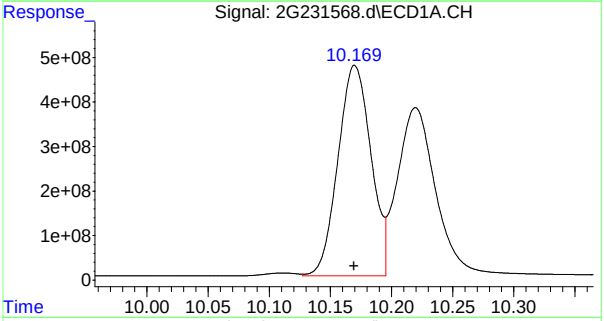
#1 Tetrachloro-m-xylene

R.T.: 4.682 min
Delta R.T.: 0.000 min
Response: 2091800574
Conc: 7.21 ppb



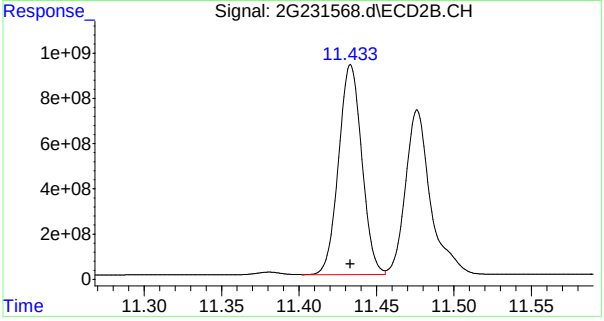
#1 Tetrachloro-m-xylene

R.T.: 5.174 min
Delta R.T.: 0.000 min
Response: 2617040921
Conc: 4.88 ppb



#46 AR1268-A

R.T.: 10.170 min
Delta R.T.: 0.000 min
Response: 8874595473
Conc: 267.93 PPB

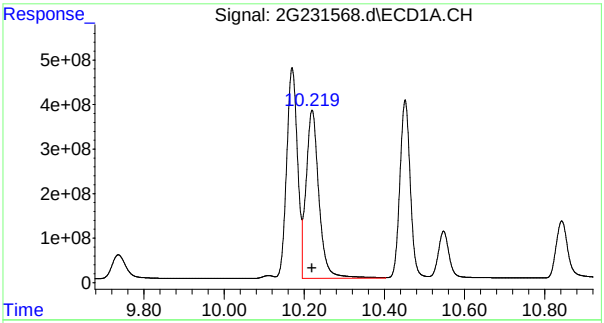


#46 AR1268-A

R.T.: 11.433 min
Delta R.T.: 0.000 min
Response: 9681227138
Conc: 153.46 PPB

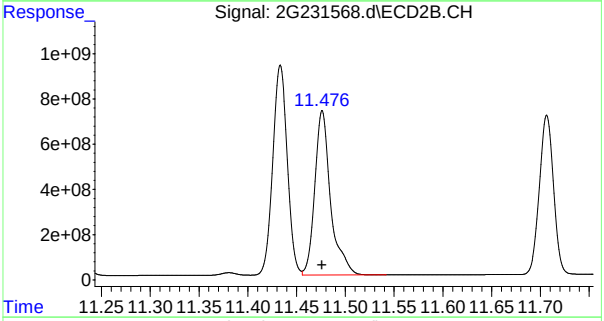
9.3.19

9



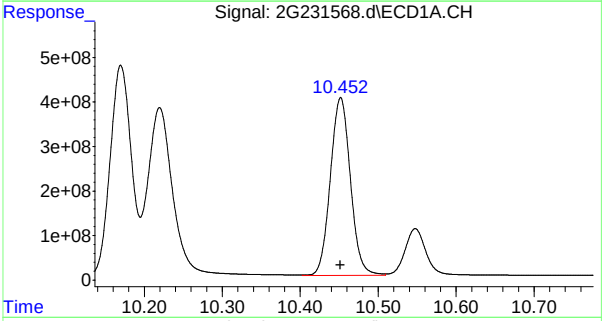
#47 AR1268-B

R.T.: 10.220 min
Delta R.T.: 0.000 min
Response: 8403510422
Conc: 225.90 PPB



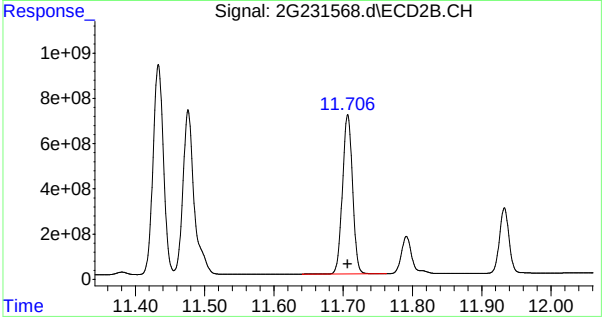
#47 AR1268-B

R.T.: 11.476 min
Delta R.T.: 0.000 min
Response: 8173478648
Conc: 145.07 PPB



#48 AR1268-C

R.T.: 10.452 min
Delta R.T.: 0.000 min
Response: 7161387336
Conc: 249.07 PPB

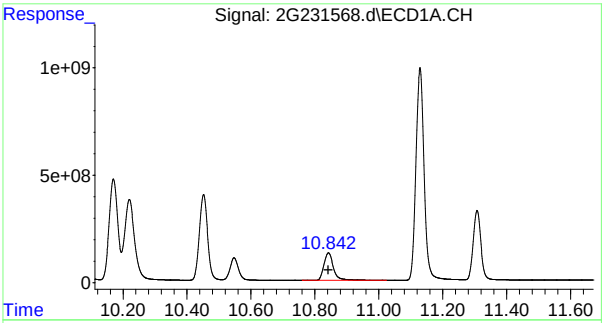


#48 AR1268-C

R.T.: 11.707 min
Delta R.T.: 0.000 min
Response: 7080023935
Conc: 149.93 PPB

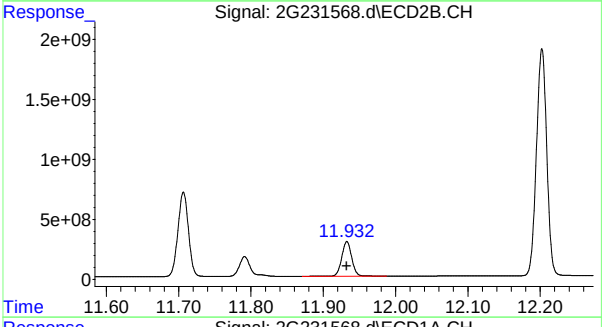
9.3.19

9



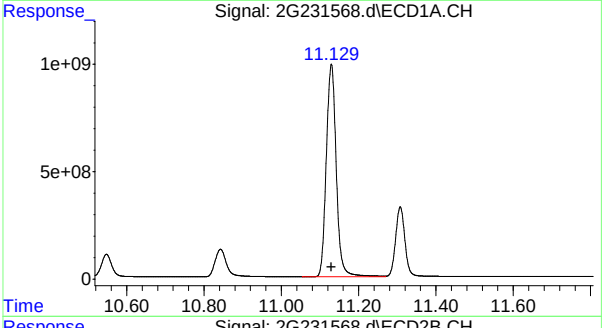
#49 AR1268-D

R.T.: 10.843 min
Delta R.T.: 0.000 min
Response: 2634648446
Conc: 239.83 PPB



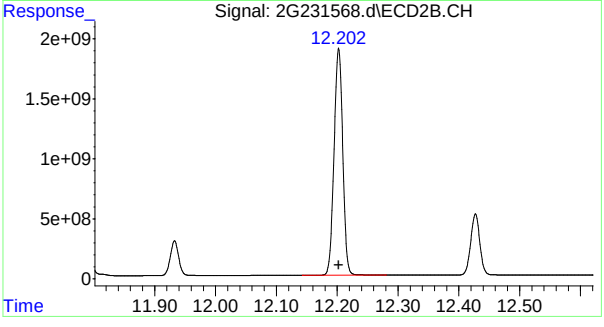
#49 AR1268-D

R.T.: 11.933 min
Delta R.T.: 0.000 min
Response: 2751545858
Conc: 151.76 PPB



#50 AR1268-E

R.T.: 11.130 min
Delta R.T.: 0.000 min
Response: 17679474136
Conc: 217.52 PPB

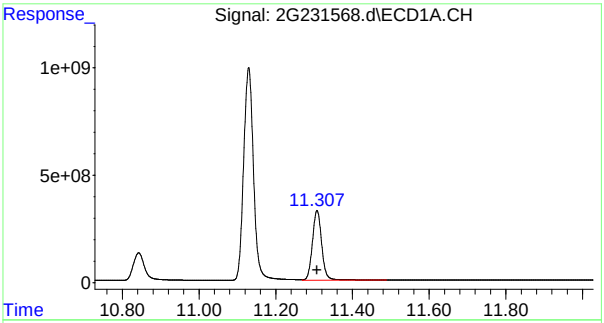


#50 AR1268-E

R.T.: 12.203 min
Delta R.T.: 0.000 min
Response: 18776868596
Conc: 145.92 PPB

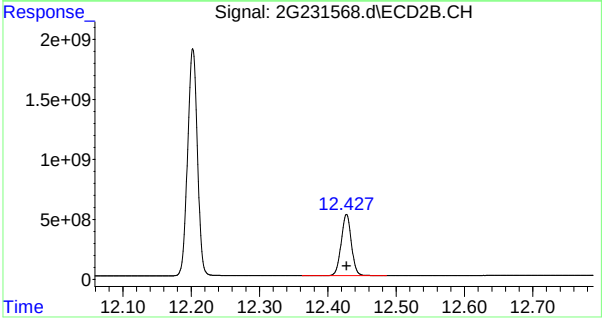
9.3.19

9



#51 Decachlorobiphenyl

R.T.: 11.308 min
Delta R.T.: 0.000 min
Response: 5442238378
Conc: 25.46 ppb



#51 Decachlorobiphenyl

R.T.: 12.427 min
Delta R.T.: 0.000 min
Response: 5238432794
Conc: 18.06 ppb

Quantitation Report (QT Reviewed)

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/02/24 15:53

Data Path : C:\msdchem\1\DATA\2G6081\
Data File : 2G231590.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 May 2024 11:27 am
Operator : rebeccak
Sample : ic6081-2000 (ar1242)
Misc : op53681,G2G6081,5.0,,,10,1
ALS Vial : 0 (Sig #1); 45 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 06:24:29 2024
Quant Method : C:\msdchem\1\METHODS\2PCBLVI6081.M
Quant Title :
QLast Update : Wed May 01 05:40:30 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
	Target Compounds						
12)	AR1242-A	5.247	6.011	17802.2E6	22642.2E6	1452.190	1434.566m
13)	AR1242-B	5.615	6.509	38704.0E6	56006.9E6	1533.731	1477.700m
14)	AR1242-C	5.743	6.676	27412.8E6	21686.3E6	2693.016m	1557.958 #
15)	AR1242-D	6.090	7.322	18165.6E6	18451.1E6	1593.820	1625.371
16)	AR1242-E	6.530	8.039	28664.7E6	24518.4E6	2108.552	1669.297

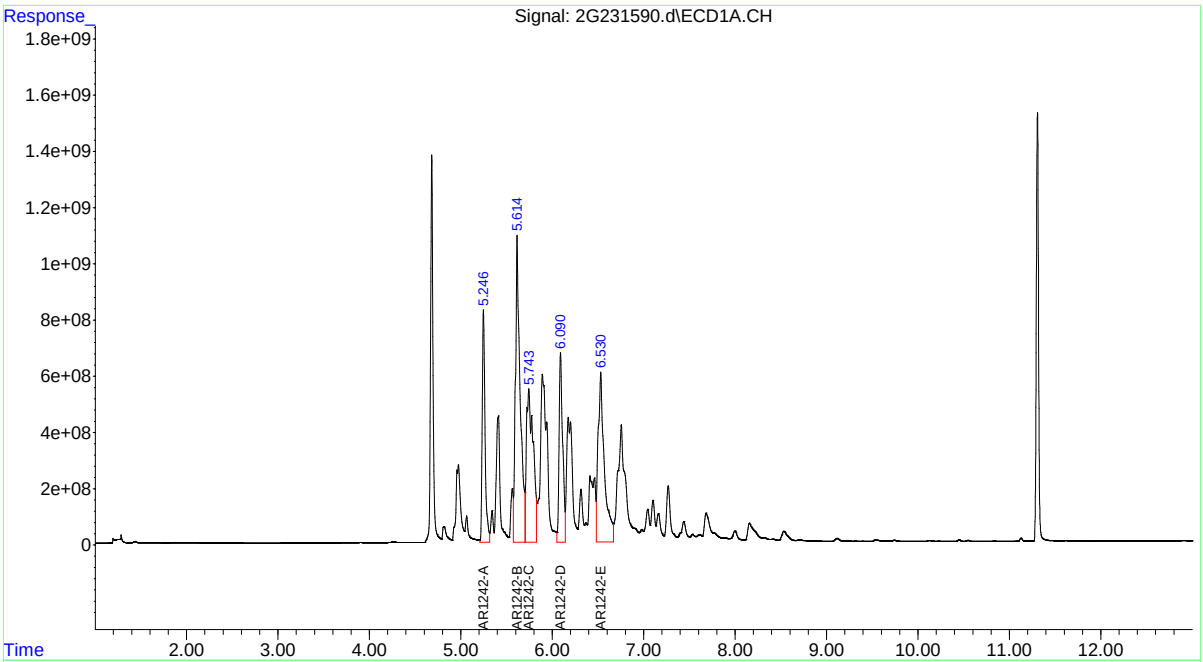
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

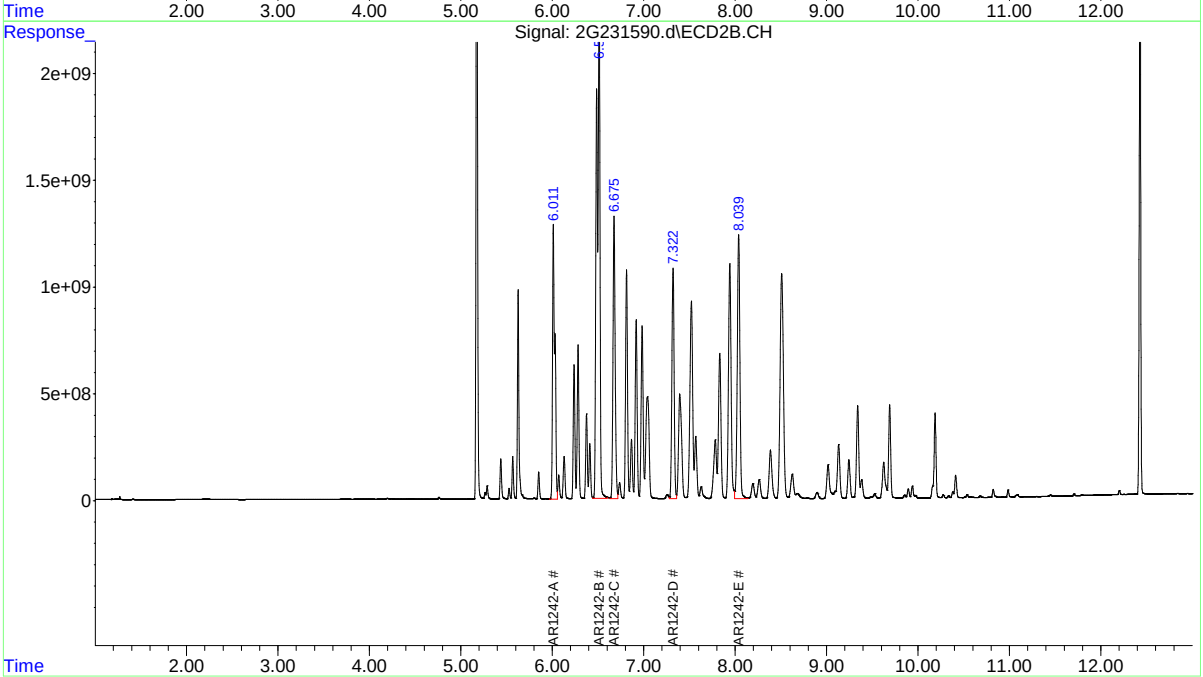
9.3.20
9

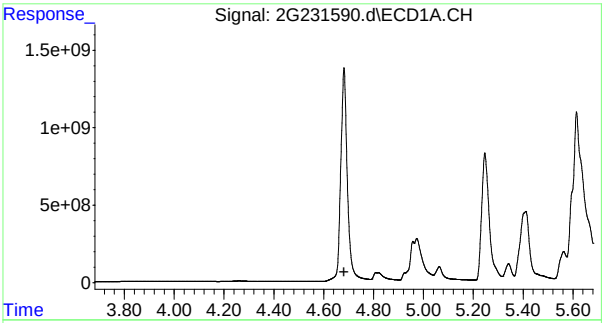
Data Path : C:\msdchem\1\DATA\2G6081\
Data File : 2G231590.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 May 2024 11:27 am
Operator : rebeccak
Sample : ic6081-2000 (ar1242)
Misc : op53681,G2G6081,5.0,,,10,1
ALS Vial : 0 (Sig #1); 45 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 06:24:29 2024
Quant Method : C:\msdchem\1\METHODS\2PCBLVI6081.M
Quant Title :
QLast Update : Wed May 01 05:40:30 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

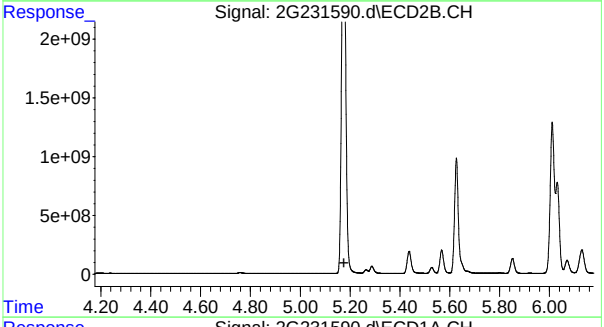






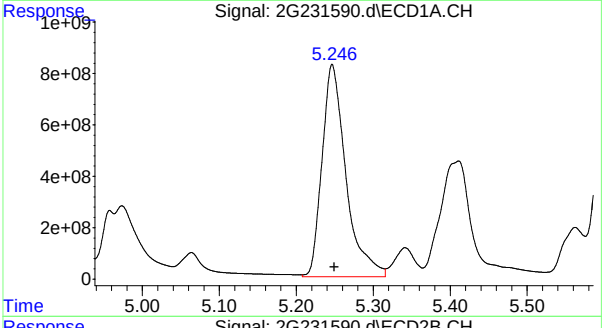
#1 Tetrachloro-m-xylene

R.T.: 0.000 min
Exp R.T. : 4.681 min
Response: 0
Conc: N.D.



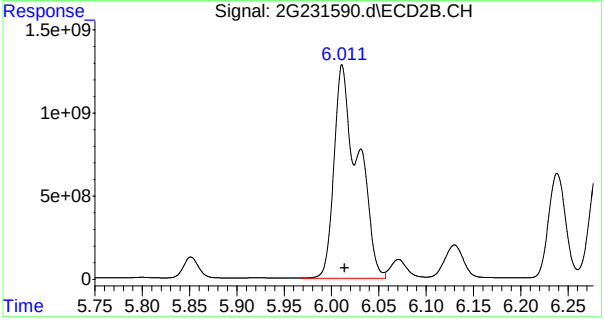
#1 Tetrachloro-m-xylene

R.T.: 0.000 min
Exp R.T. : 5.175 min
Response: 0
Conc: N.D.



#12 AR1242-A

R.T.: 5.247 min
Delta R.T.: -0.002 min
Response: 17802230092
Conc: 1452.19 PPB

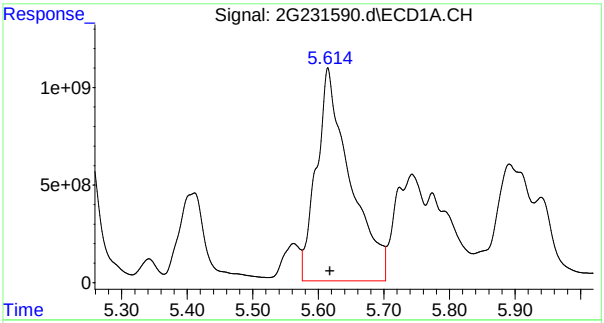


#12 AR1242-A

R.T.: 6.011 min
Delta R.T.: -0.003 min
Response: 22642158749
Conc: 1434.57 PPB m

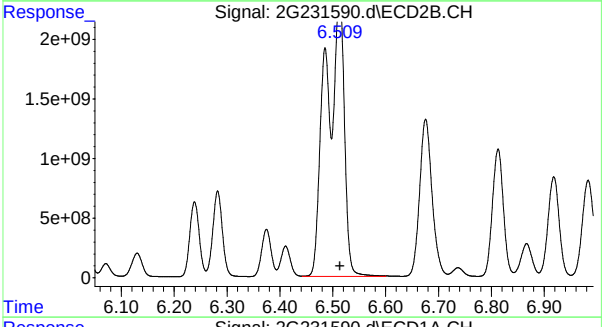
9.3.20

9



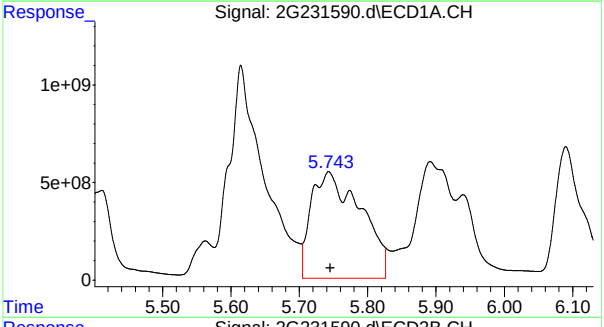
#13 AR1242-B

R.T.: 5.615 min
Delta R.T.: -0.003 min
Response: 38704044614
Conc: 1533.73 PPB



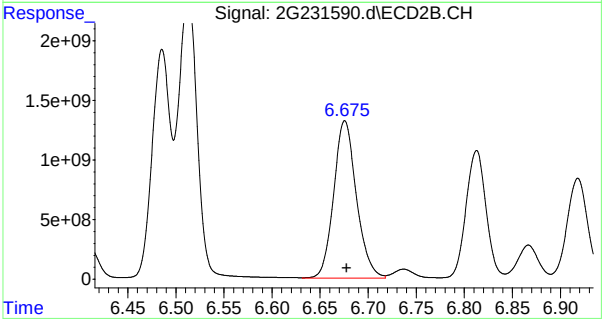
#13 AR1242-B

R.T.: 6.509 min
Delta R.T.: -0.005 min
Response: 56006900411
Conc: 1477.70 PPB m



#14 AR1242-C

R.T.: 5.743 min
Delta R.T.: -0.003 min
Response: 27412765095
Conc: 2693.02 PPB m

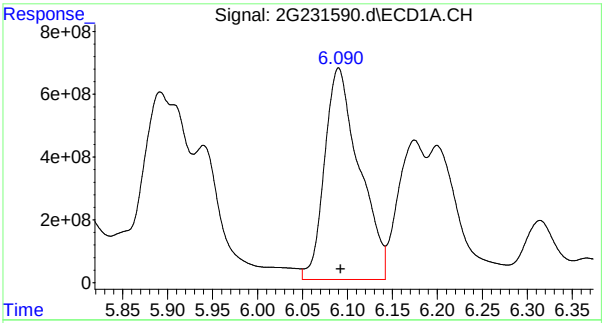


#14 AR1242-C

R.T.: 6.676 min
Delta R.T.: -0.002 min
Response: 21686262167
Conc: 1557.96 PPB

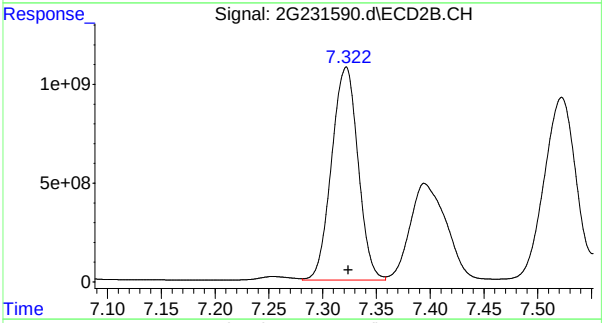
9.3.20

9



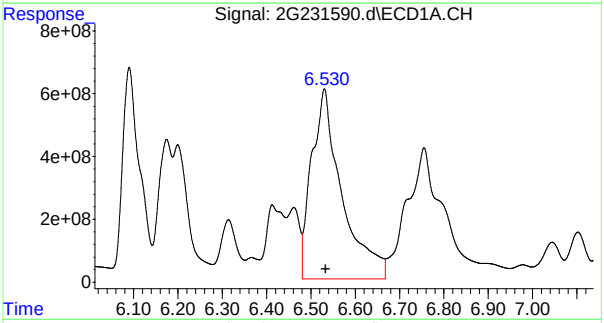
#15 AR1242-D

R.T.: 6.090 min
Delta R.T.: -0.002 min
Response: 18165557575
Conc: 1593.82 PPB



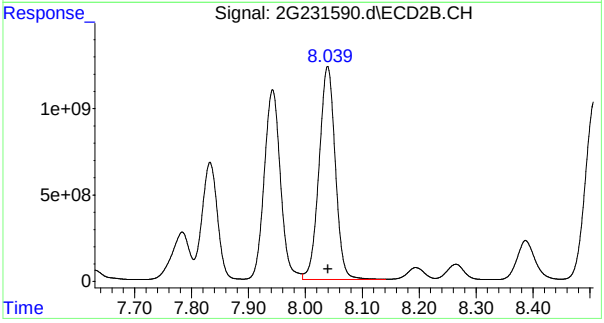
#15 AR1242-D

R.T.: 7.322 min
Delta R.T.: -0.002 min
Response: 18451085476
Conc: 1625.37 PPB



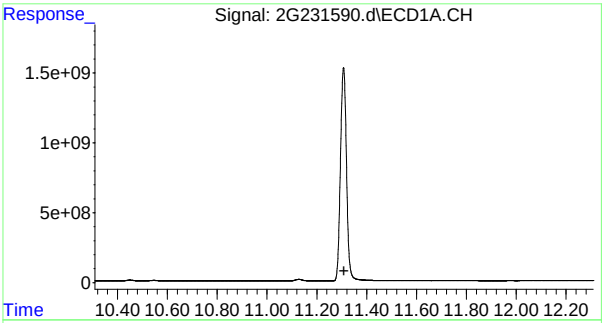
#16 AR1242-E

R.T.: 6.530 min
Delta R.T.: -0.003 min
Response: 28664703508
Conc: 2108.55 PPB



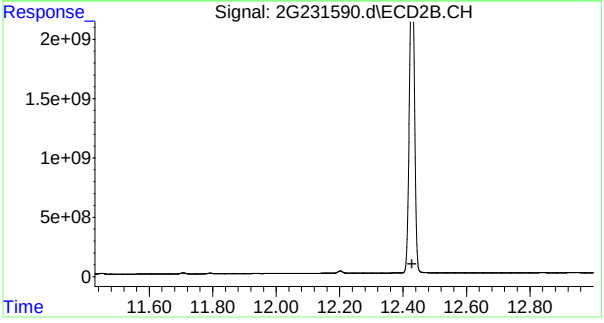
#16 AR1242-E

R.T.: 8.039 min
Delta R.T.: 0.000 min
Response: 24518379697
Conc: 1669.30 PPB



#51 Decachlorobiphenyl

R.T.: 0.000 min
Exp R.T. : 11.309 min
Response: 0
Conc: N.D.



#51 Decachlorobiphenyl

R.T.: 0.000 min
Exp R.T. : 12.428 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/02/24 15:53

Data Path : C:\msdchem\1\DATA\2G6081\
Data File : 2G231601.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 May 2024 16:07 pm
Operator : rebeccak
Sample : ic6081-2000 (ar1248)
Misc : op53681,G2G6081,5.0,,,10,1
ALS Vial : 0 (Sig #1); 56 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 06:45:45 2024
Quant Method : C:\msdchem\1\METHODS\2PCBLVI6081.M
Quant Title :
QLast Update : Wed May 01 05:40:30 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
	Target Compounds						
17)	AR1248-A	5.246	6.012	8999.0E6	11392.0E6	1600.722	1511.491
18)	AR1248-B	5.615	6.485	26718.3E6	38803.5E6	1646.996	1666.052m
19)	AR1248-C	5.890	6.918	44258.6E6	23099.4E6	2210.967m	1655.973 #
20)	AR1248-D	6.090	7.322	27680.1E6	30286.1E6	1607.318	1634.425
21)	AR1248-E	6.174	7.523	28321.1E6	31592.2E6	3071.445m	1735.853 #
22)	AR1248-F	6.530	8.039	49069.9E6	44650.7E6	1685.851	1707.246
23)	AR1248-G	6.756	8.512	47667.2E6	46537.0E6	1754.494	1773.081

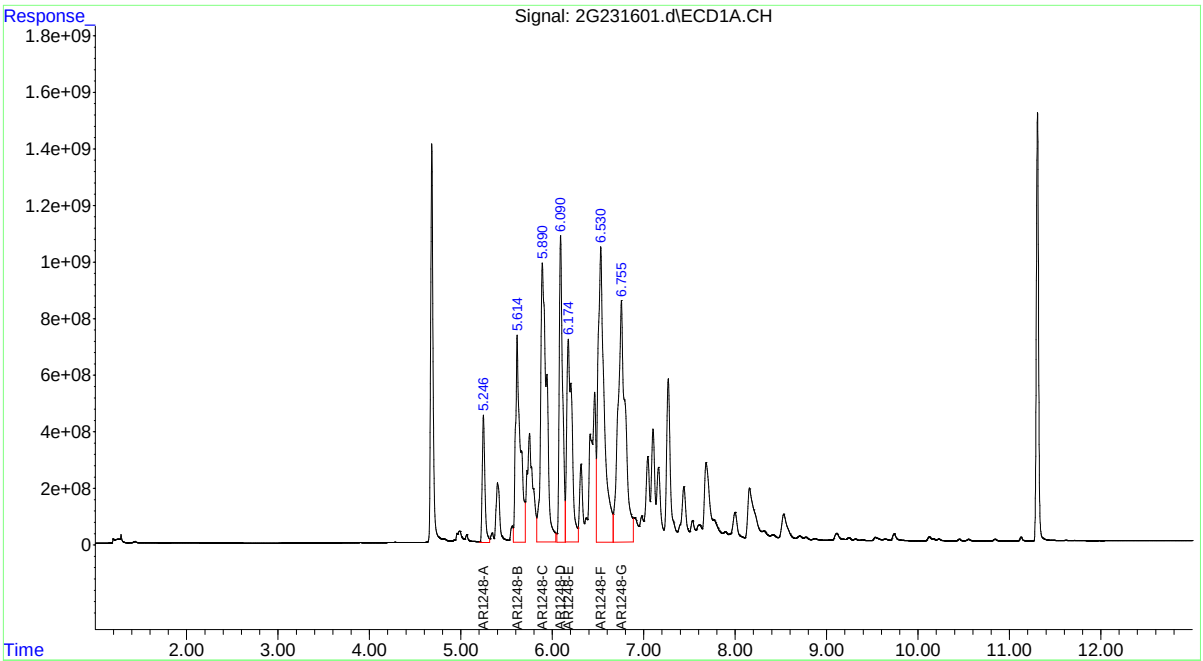
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

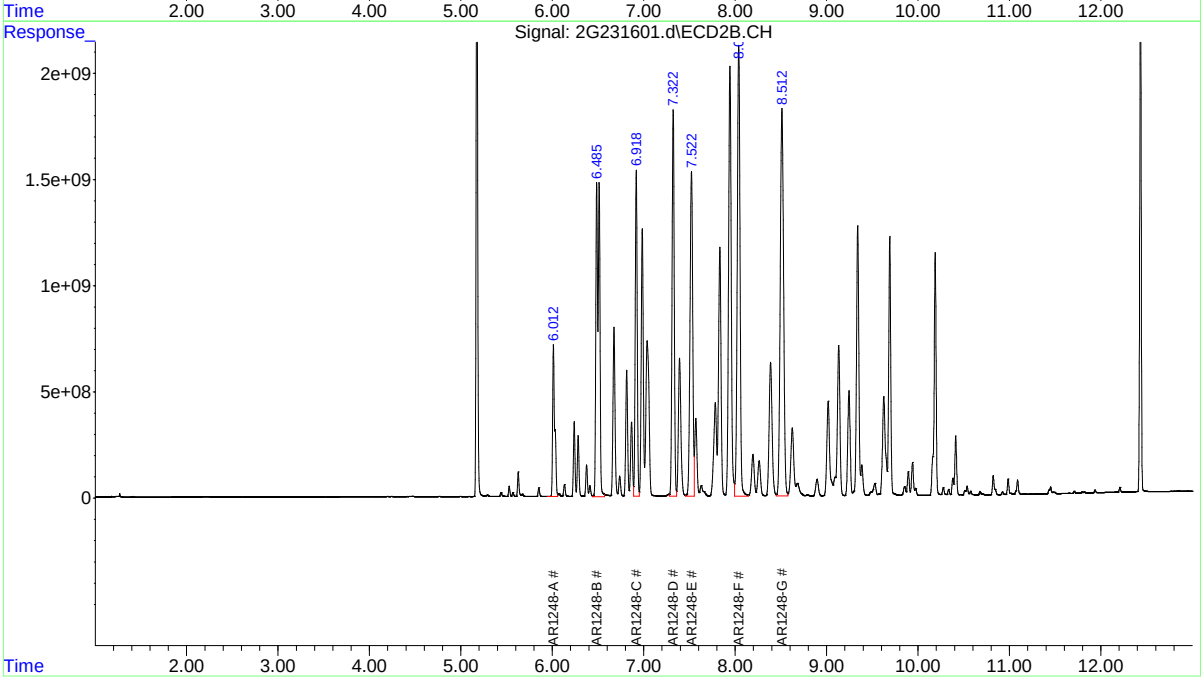
9.3.21
9

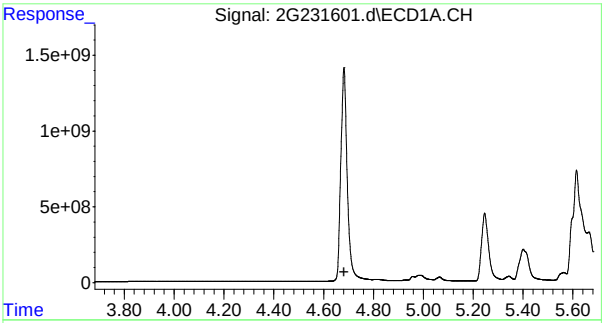
Data Path : C:\msdchem\1\DATA\2G6081\
Data File : 2G231601.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 May 2024 16:07 pm
Operator : rebeccak
Sample : ic6081-2000 (ar1248)
Misc : op53681,G2G6081,5.0,,,10,1
ALS Vial : 0 (Sig #1); 56 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 06:45:45 2024
Quant Method : C:\msdchem\1\METHODS\2PCBLVI6081.M
Quant Title :
QLast Update : Wed May 01 05:40:30 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

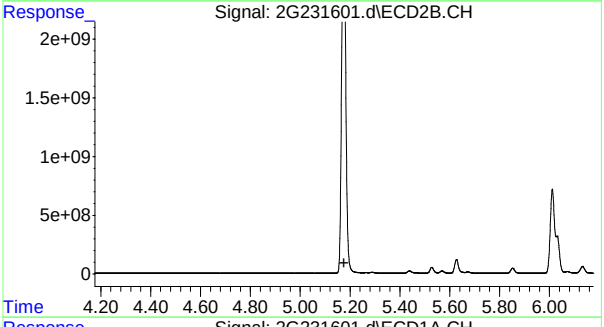






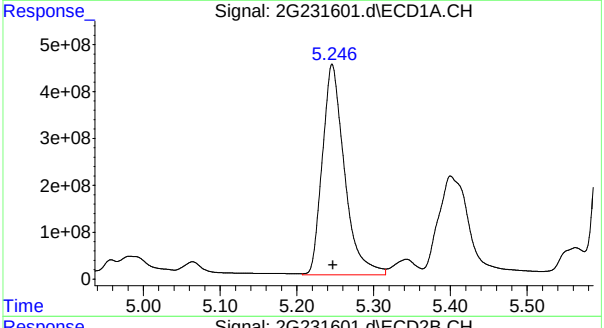
#1 Tetrachloro-m-xylene

R.T.: 0.000 min
Exp R.T. : 4.681 min
Response: 0
Conc: N.D.



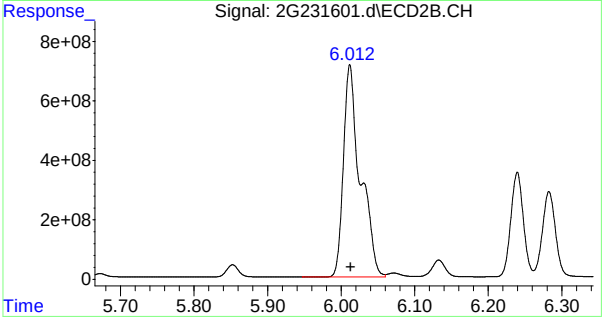
#1 Tetrachloro-m-xylene

R.T.: 0.000 min
Exp R.T. : 5.175 min
Response: 0
Conc: N.D.



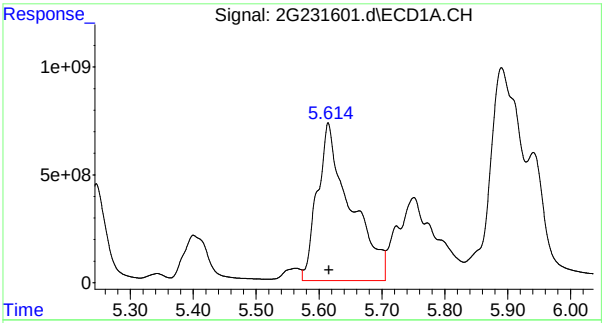
#17 AR1248-A

R.T.: 5.246 min
Delta R.T.: 0.000 min
Response: 8998992543
Conc: 1600.72 PPB



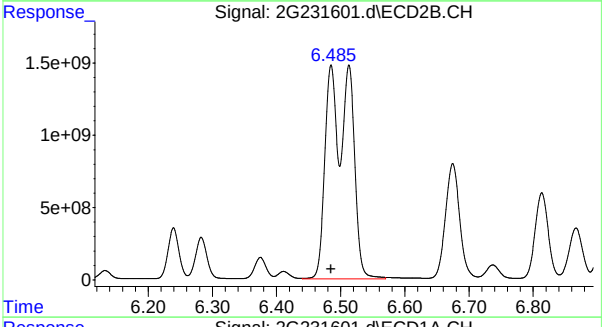
#17 AR1248-A

R.T.: 6.012 min
Delta R.T.: 0.000 min
Response: 11392012171
Conc: 1511.49 PPB



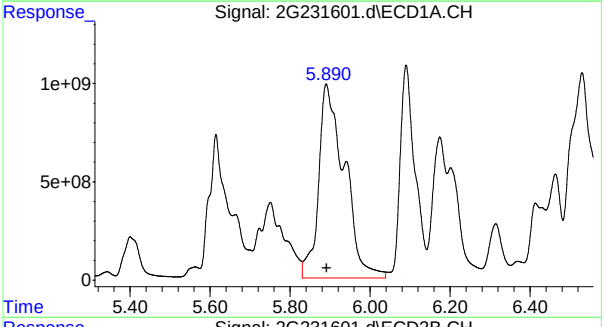
#18 AR1248-B

R.T.: 5.615 min
Delta R.T.: -0.001 min
Response: 26718299066
Conc: 1647.00 PPB



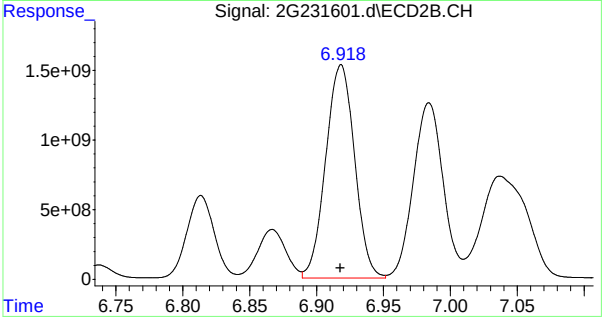
#18 AR1248-B

R.T.: 6.485 min
Delta R.T.: 0.000 min
Response: 38803536058
Conc: 1666.05 PPB m



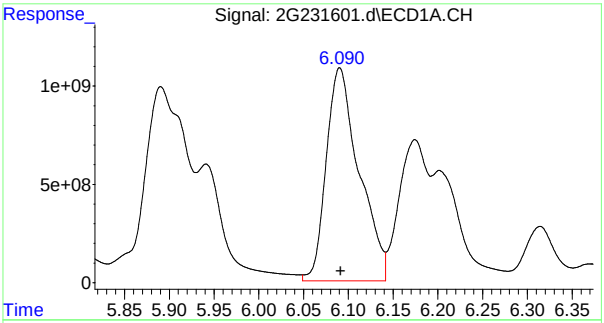
#19 AR1248-C

R.T.: 5.890 min
Delta R.T.: -0.001 min
Response: 44258564388
Conc: 2210.97 PPB m



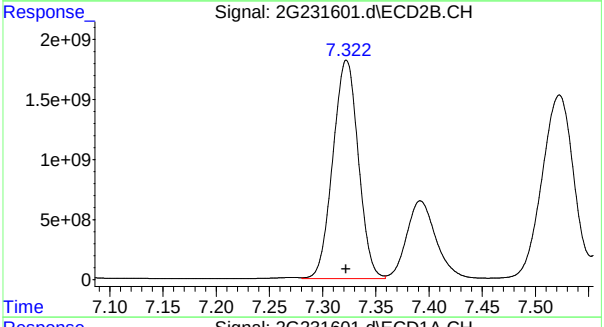
#19 AR1248-C

R.T.: 6.918 min
Delta R.T.: 0.000 min
Response: 23099433933
Conc: 1655.97 PPB



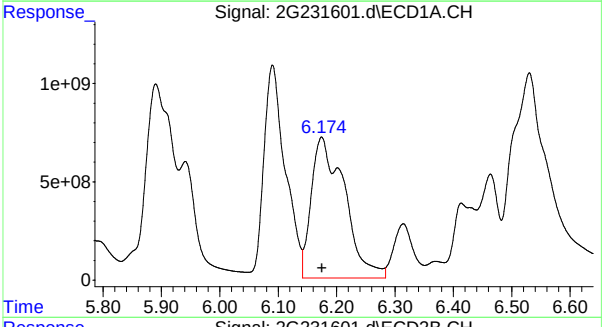
#20 AR1248-D

R.T.: 6.090 min
Delta R.T.: -0.001 min
Response: 27680143547
Conc: 1607.32 PPB



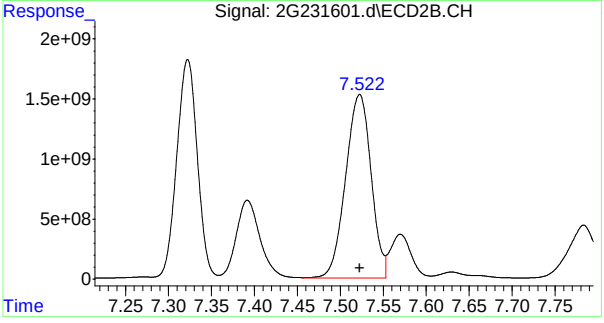
#20 AR1248-D

R.T.: 7.322 min
Delta R.T.: 0.000 min
Response: 30286104998
Conc: 1634.42 PPB



#21 AR1248-E

R.T.: 6.174 min
Delta R.T.: -0.001 min
Response: 28321069746
Conc: 3071.45 PPB m

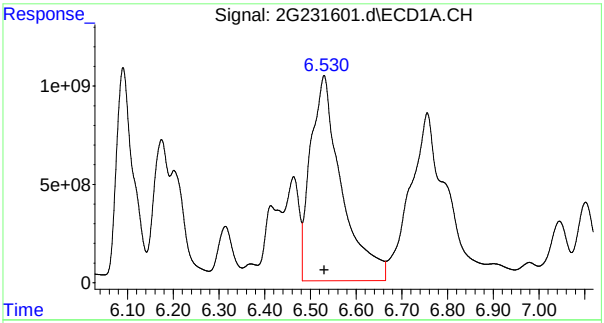


#21 AR1248-E

R.T.: 7.523 min
Delta R.T.: 0.000 min
Response: 31592178727
Conc: 1735.85 PPB

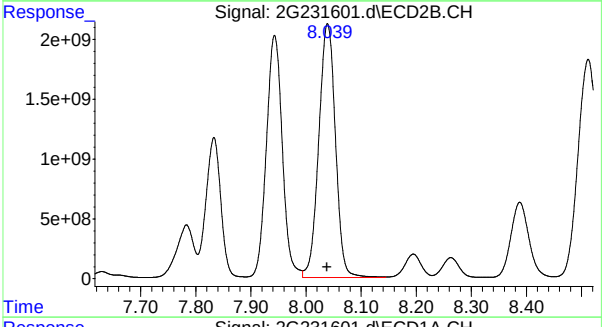
9.3.21

9



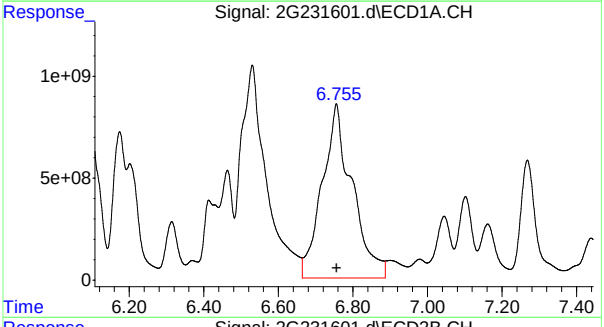
#22 AR1248-F

R.T.: 6.530 min
Delta R.T.: 0.000 min
Response: 49069926987
Conc: 1685.85 PPB



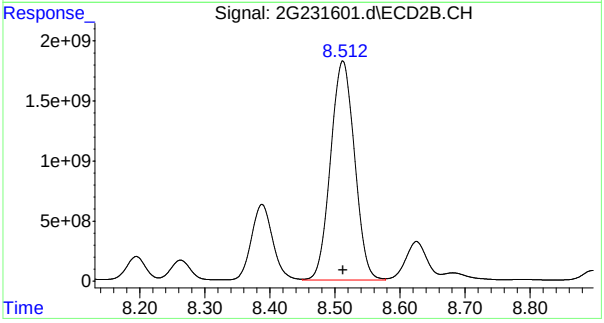
#22 AR1248-F

R.T.: 8.039 min
Delta R.T.: 0.001 min
Response: 44650653270
Conc: 1707.25 PPB



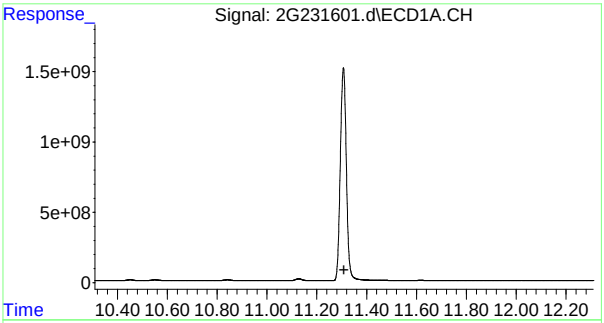
#23 AR1248-G

R.T.: 6.756 min
Delta R.T.: 0.000 min
Response: 47667202531
Conc: 1754.49



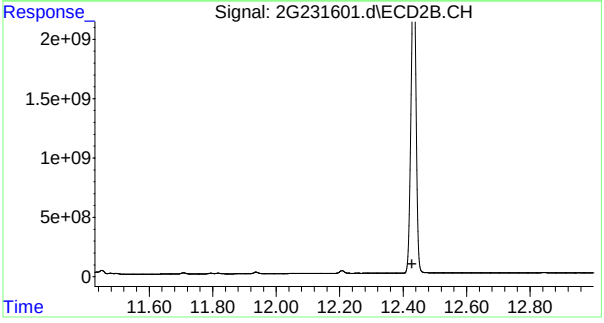
#23 AR1248-G

R.T.: 8.512 min
Delta R.T.: 0.000 min
Response: 46537030160
Conc: 1773.08



#51 Decachlorobiphenyl

R.T.: 0.000 min
Exp R.T. : 11.309 min
Response: 0
Conc: N.D.



#51 Decachlorobiphenyl

R.T.: 0.000 min
Exp R.T. : 12.428 min
Response: 0
Conc: N.D.

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
05/02/24 15:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\2G6081\
Data File : 2G231612.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 May 2024 20:42 pm
Operator : rebeccak
Sample : ic6081-2000 (ar1254)
Misc : op53681,G2G6081,5.0,,,10,1
ALS Vial : 0 (Sig #1); 67 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 06:59:54 2024
Quant Method : C:\msdchem\1\METHODS\2PCBLVI6081.M
Quant Title :
QLast Update : Wed May 01 05:40:30 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
	Target Compounds						
24)	AR1254-A	6.465	8.036	22617.3E6	36961.7E6	1486.284	1634.046
25)	AR1254-B	6.751	8.386	43480.8E6	45464.8E6	1540.400m	1650.889
26)	AR1254-C	7.100	9.131	25026.7E6	36843.0E6	1638.737	1749.304
27)	AR1254-D	7.268	9.343	46825.8E6	53107.5E6	1802.454m	1310.108 #
28)	AR1254-E	7.686	9.693	40580.0E6	44414.0E6	1743.589	1385.888
29)	AR1254-F	7.995	10.187	38798.9E6	57386.4E6	1673.758	1833.722m
30)	AR1254-G	8.528	10.403	52846.9E6	56807.4E6	1653.769	1867.314m

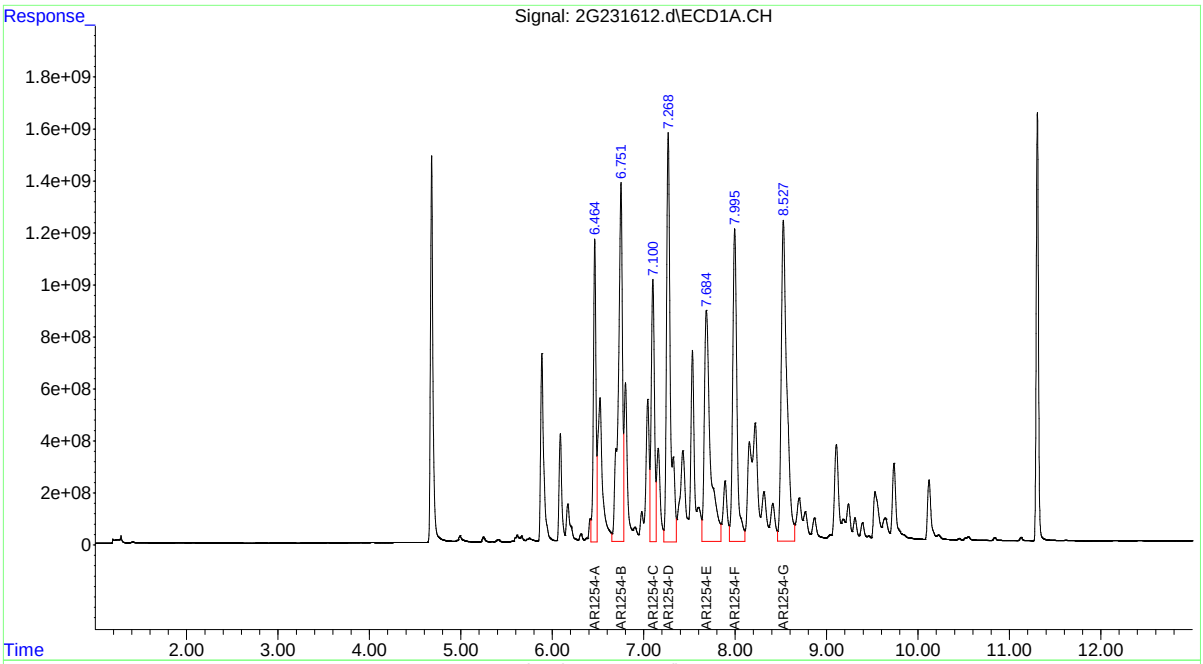
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

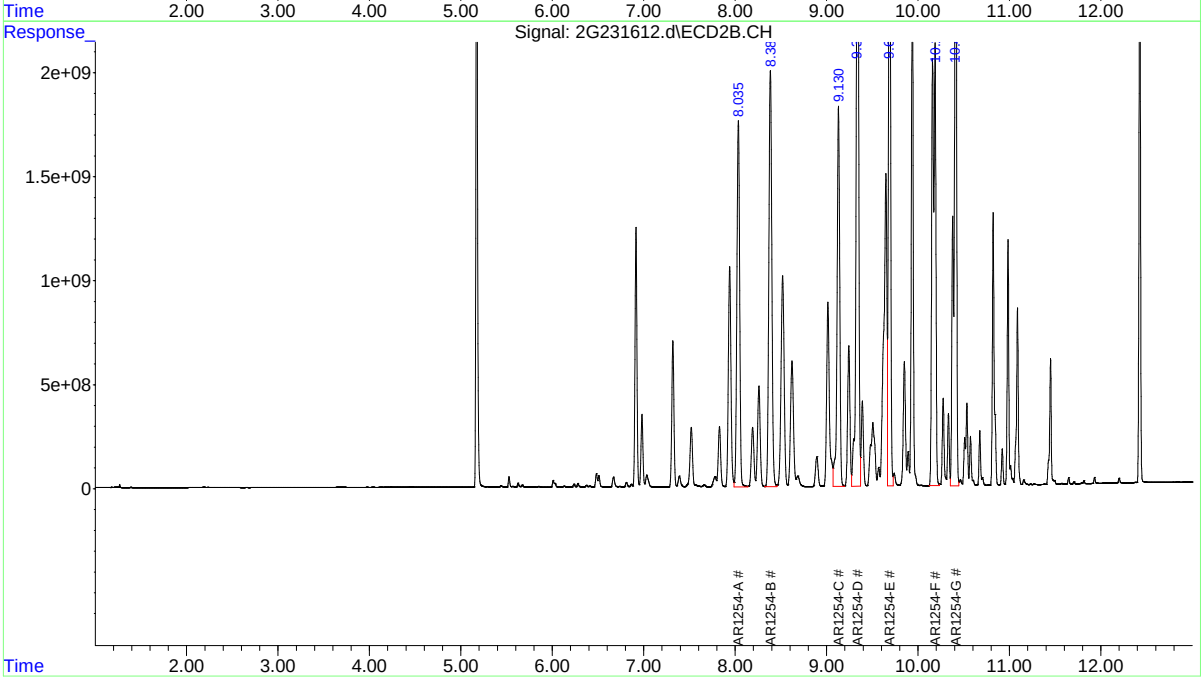
9.3.22
9

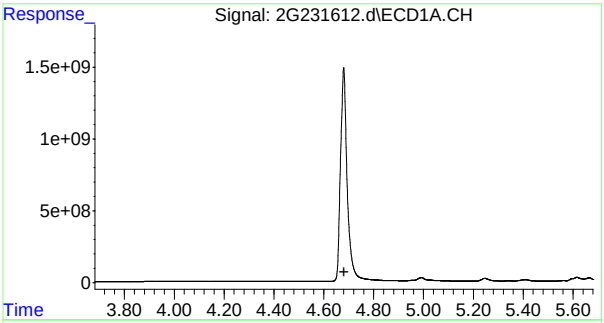
Data Path : C:\msdchem\1\DATA\2G6081\
Data File : 2G231612.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 May 2024 20:42 pm
Operator : rebeccak
Sample : ic6081-2000 (ar1254)
Misc : op53681,G2G6081,5.0,,,10,1
ALS Vial : 0 (Sig #1); 67 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 02 06:59:54 2024
Quant Method : C:\msdchem\1\METHODS\2PCBLVI6081.M
Quant Title :
QLast Update : Wed May 01 05:40:30 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZBCLP-1 Signal #2 Phase: ZBCLP-2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

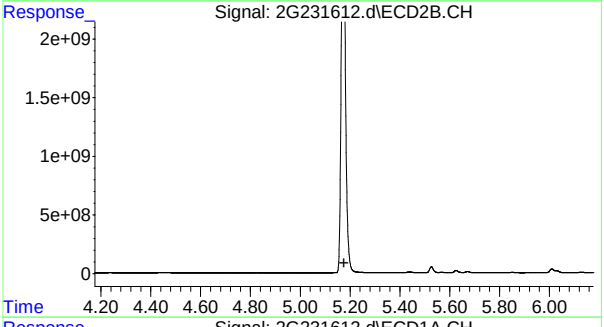






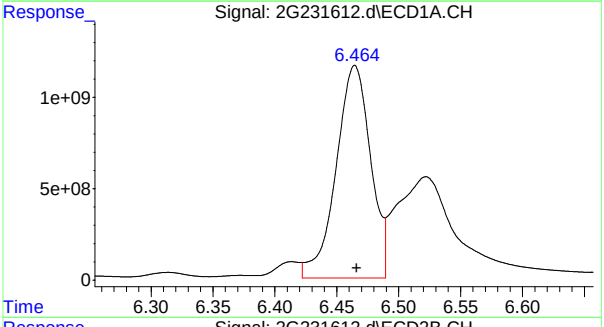
#1 Tetrachloro-m-xylene

R.T.: 0.000 min
Exp R.T. : 4.681 min
Response: 0
Conc: N.D.



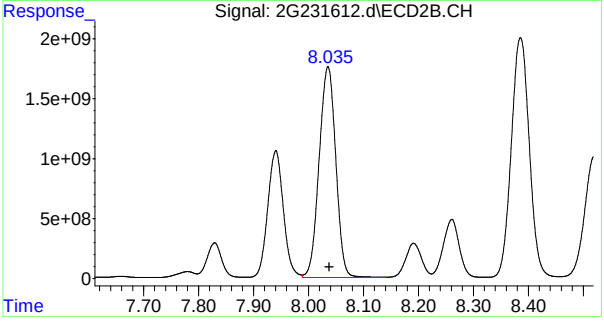
#1 Tetrachloro-m-xylene

R.T.: 0.000 min
Exp R.T. : 5.175 min
Response: 0
Conc: N.D.



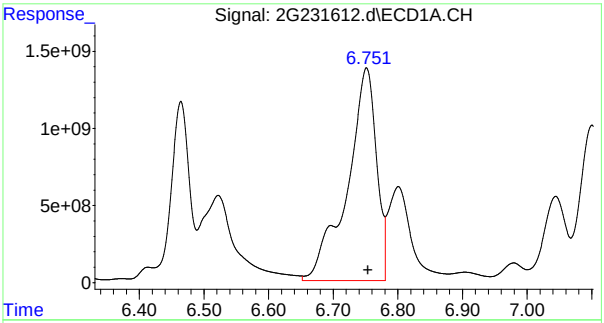
#24 AR1254-A

R.T.: 6.465 min
Delta R.T.: -0.001 min
Response: 22617319660
Conc: 1486.28



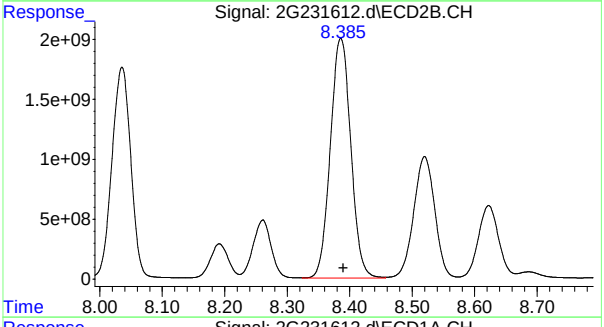
#24 AR1254-A

R.T.: 8.036 min
Delta R.T.: -0.002 min
Response: 36961684655
Conc: 1634.05



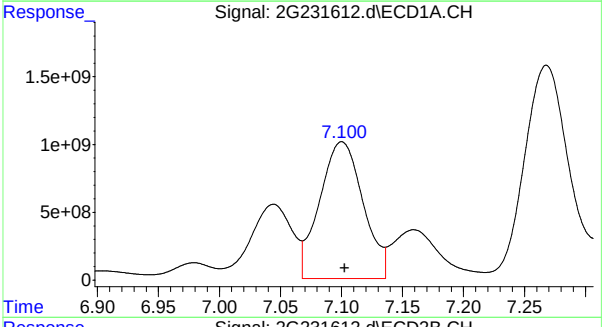
#25 AR1254-B

R.T.: 6.751 min
Delta R.T.: -0.003 min
Response: 43480788972
Conc: 1540.40 PPB m



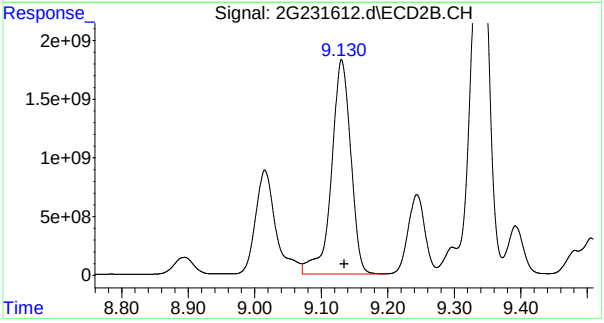
#25 AR1254-B

R.T.: 8.386 min
Delta R.T.: -0.004 min
Response: 45464788134
Conc: 1650.89 PPB



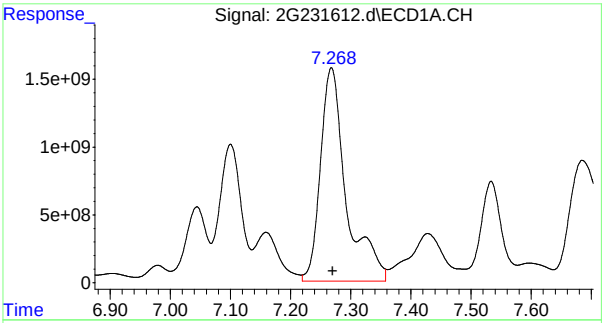
#26 AR1254-C

R.T.: 7.100 min
Delta R.T.: -0.002 min
Response: 25026650940
Conc: 1638.74 PPB



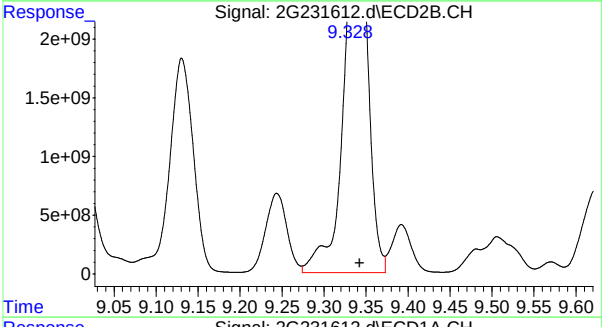
#26 AR1254-C

R.T.: 9.131 min
Delta R.T.: -0.004 min
Response: 36842970638
Conc: 1749.30 PPB



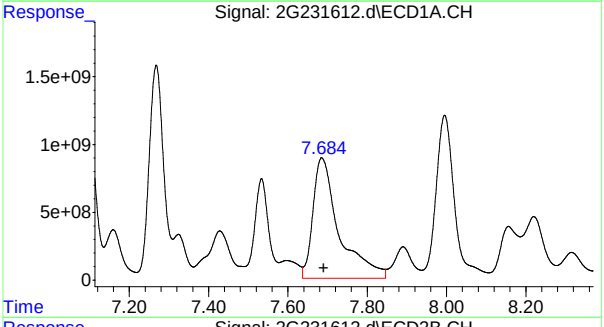
#27 AR1254-D

R.T.: 7.268 min
Delta R.T.: -0.002 min
Response: 46825755738
Conc: 1802.45 PPB m



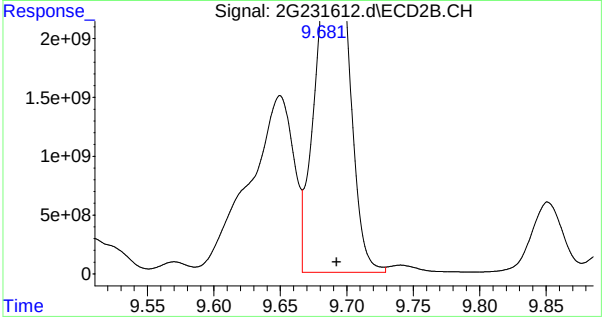
#27 AR1254-D

R.T.: 9.343 min
Delta R.T.: 0.000 min
Response: 53107474358
Conc: 1310.11 PPB



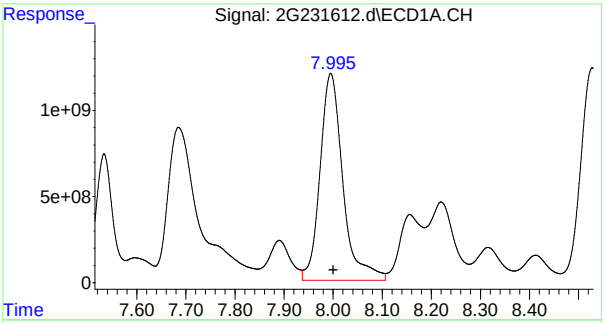
#28 AR1254-E

R.T.: 7.686 min
Delta R.T.: -0.004 min
Response: 40579964575
Conc: 1743.59 PPB



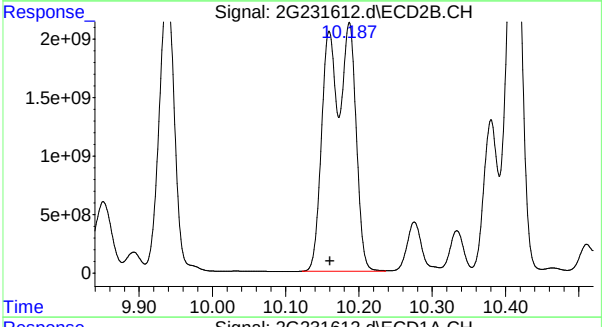
#28 AR1254-E

R.T.: 9.693 min
Delta R.T.: 0.000 min
Response: 44413988773
Conc: 1385.89 PPB



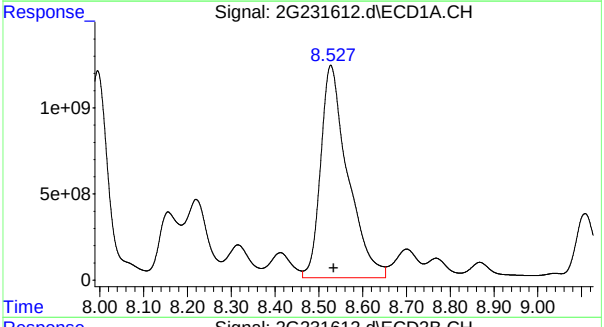
#29 AR1254-F

R.T.: 7.995 min
Delta R.T.: -0.005 min
Response: 38798902919
Conc: 1673.76 PPB



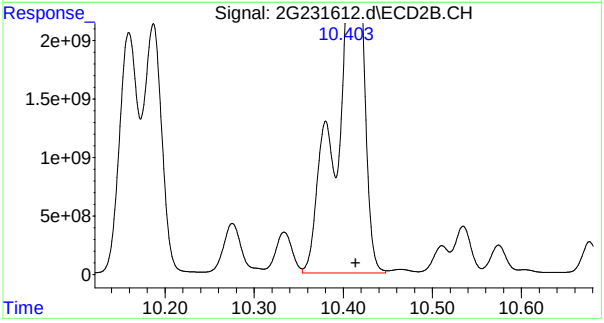
#29 AR1254-F

R.T.: 10.187 min
Delta R.T.: 0.026 min
Response: 57386438175
Conc: 1833.72 PPB m



#30 AR1254-G

R.T.: 8.528 min
Delta R.T.: -0.006 min
Response: 52846855450
Conc: 1653.77 PPB

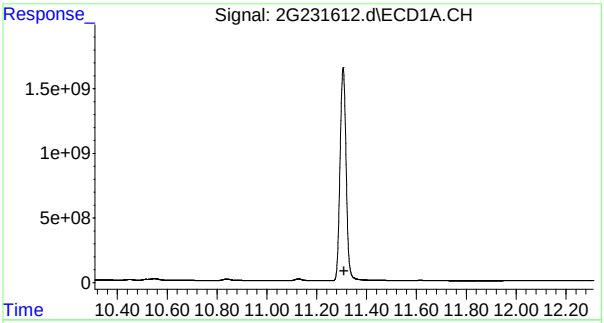


#30 AR1254-G

R.T.: 10.403 min
Delta R.T.: -0.011 min
Response: 56807433721
Conc: 1867.31 PPB m

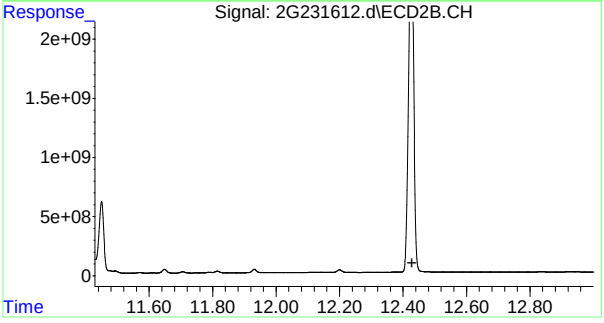
9.3.22

9



#51 Decachlorobiphenyl

R.T.: 0.000 min
Exp R.T. : 11.309 min
Response: 0
Conc: N.D.



#51 Decachlorobiphenyl

R.T.: 0.000 min
Exp R.T. : 12.428 min
Response: 0
Conc: N.D.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56021
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:01	MA56021-STD1	1		b=2.1334e-004,c=-6.2782e-002,rho=0.9997560
11:03	MA56021-STD2	1		STDB
11:04	MA56021-STD3	1		STDC
11:06	MA56021-STD4	1		STDD
11:07	MA56021-STD5	1		STDE
11:09	MA56021-STD6	1		STDF
11:12	ZZZZZZ	1		
11:13	MA56021-ICV1	1		
11:15	MA56021-ICB1	1		
11:17	MA56021-CCV1	1		
11:18	MA56021-CCB1	1		
11:20	MA56021-CRI1	1		
11:21	MP46472-MB1	1		
11:23	MP46472-B1	1		
11:24	ZZZZZZ	1		
11:26	MA56021-CCV2	1		
11:28	MA56021-CCB2	1		
11:31	MP46472-MB1	1		
11:32	MP46472-B1	1		
11:34	ZZZZZZ	1		
11:35	MA56021-CCV3	1		
11:37	MA56021-CCB3	1		
11:43	MP46448-MB1	1		
11:45	MP46448-B1	1		
11:46	MP46448-B2	1		
11:48	MP46448-S1	1		
11:50	MP46448-S2	1		
11:52	JD87813-1F	1		(sample used for QC only; not part of login JD87833)
11:53	ZZZZZZ	1		
11:55	ZZZZZZ	1		
11:56	MA56021-CCV4	1		
11:58	MA56021-CCB4	1		
12:00	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56021
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:01	ZZZZZZ	1		
12:03	ZZZZZZ	1		
12:04	ZZZZZZ	1		
12:06	ZZZZZZ	1		
12:07	ZZZZZZ	1		
12:08	ZZZZZZ	1		
12:10	ZZZZZZ	1		
12:11	MA56021-CCV5	1		
12:13	MA56021-CCB5	1		
12:15	ZZZZZZ	1		
12:16	JD87833-17	1		
12:18	ZZZZZZ	1		
12:19	MP46473-MB1	1		
12:19	MP46473-MB1	1		
12:20	MP46473-LB1	1		
12:20	MP46473-LB1	1		
12:22	MP46473-B1	1		
12:22	MP46473-B1	1		
12:23	MP46473-LS1	1		
12:23	MP46473-LS1	1		
12:25	MP46473-S1	1		
12:25	MP46473-S1	1		
12:27	MA56021-CCV6	1		
12:29	MA56021-CCB6	1		
12:31	MP46473-S2	1		
12:31	MP46473-S2	1		
12:32	JD87093-1AT	1		(sample used for QC only; not part of login JD87833)
12:34	ZZZZZZ	1		
12:35	ZZZZZZ	1		
12:36	ZZZZZZ	1		
12:38	MP46474-MB1	1		
12:39	MP46474-LB1	1		
12:48	MP46474-B1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56021
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:49	MA56021-CCV7	1		
12:53	MA56021-CCB7	1		
12:56	MP46474-LS1	1		
12:57	MP46474-S1	1		
12:59	MP46474-S2	1		
13:00	JD87474-1	1		(sample used for QC only; not part of login JD87833)
13:02	ZZZZZZ	1		
13:04	ZZZZZZ	1		
13:05	MA56021-CCV8	1		
13:06	MA56021-CCB8	1		
13:08	MP46475-MB1	1		
13:10	MP46475-LB1	1		
13:11	MP46475-B1	1		
13:12	MP46475-B1	1		
13:14	MP46475-LS1	1		
13:15	MP46475-S1	1		
13:17	MP46475-S2	1		
13:19	JD87563-1	1		(sample used for QC only; not part of login JD87833)
13:21	ZZZZZZ	1		
13:22	MA56021-CCV9	1		
13:24	MA56021-CCB9	1		
13:25	ZZZZZZ	1		
13:27	ZZZZZZ	1		
13:28	ZZZZZZ	1		
13:30	ZZZZZZ	1		
13:31	ZZZZZZ	1		
13:32	ZZZZZZ	1		
13:34	ZZZZZZ	1		
13:35	ZZZZZZ	1		
13:37	MA56021-CCV10	1		
13:38	MA56021-CCB10	1		
13:40	ZZZZZZ	1		
13:41	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56021
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:43	ZZZZZZ	1		
13:44	ZZZZZZ	1		
13:46	ZZZZZZ	1		
13:47	ZZZZZZ	1		
13:48	ZZZZZZ	1		
13:50	ZZZZZZ	1		
13:51	MA56021-CCV11	1		
13:53	MA56021-CCB11	1		
13:54	ZZZZZZ	1		
13:56	ZZZZZZ	1		
13:57	MP46476-MB1	1		
13:59	MP46476-LB1	1		
14:00	MP46476-B1	1		
14:01	MP46476-LS1	1		
14:21	MP46474-LS1	1		
14:22	MA56021-CCV12	1		
14:24	MA56021-CCB12	1		
14:27	MP46476-S1	1		
14:28	MP46476-S2	1		
14:30	JD87563-21	1		(sample used for QC only; not part of login JD87833)
14:32	ZZZZZZ	1		
14:33	ZZZZZZ	1		
14:35	ZZZZZZ	1		
14:36	ZZZZZZ	1		
14:38	ZZZZZZ	1		
14:39	MA56021-CCV13	1		
14:40	MA56021-CCB13	1		
14:42	ZZZZZZ	1		
14:44	ZZZZZZ	1		
14:45	ZZZZZZ	1		
14:47	ZZZZZZ	1		
14:48	ZZZZZZ	1		
14:49	MA56021-CCV14	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56021
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:51	MA56021-CCB14	1		
14:53	MP46477-MB1	1		
14:54	MP46477-LB1	1		
14:55	MP46477-B1	1		
14:57	MP46477-LS1	1		
14:59	MP46477-S1	1		
15:01	MP46477-S2	1		
15:02	MA56021-CCV15	1		
15:04	MA56021-CCB15	1		
15:06	JD87485-1	1		(sample used for QC only; not part of login JD87833)
15:07	MP46448-MB1	1		
---------->	Last reportable sample/prep for job JD87833			
15:09	MP46473-MB1	1		
15:09	MP46473-MB1	1		
15:10	MP46474-MB1	1		
15:12	MA56021-CCV16	1		
15:14	MA56021-CCV17	1		
15:17	MA56021-CCB16	1		
---------->	Last reportable CCB for job JD87833			
15:18	ZZZZZZ	1		
15:19	ZZZZZZ	1		
15:21	ZZZZZZ	1		
15:23	ZZZZZZ	1		
15:25	ZZZZZZ	1		
15:27	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56021
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
11:12	ZZZZZZ	1		
11:13	MA56021-ICV1	1	X	
11:15	MA56021-ICB1	1	X	
11:17	MA56021-CCV1	1	X	
11:18	MA56021-CCB1	1	X	
11:20	MA56021-CRI1	1	X	
11:21	MP46472-MB1	1		
11:23	MP46472-B1	1		
11:24	ZZZZZZ	1		
11:26	MA56021-CCV2	1	X	
11:28	MA56021-CCB2	1	X	
11:31	MP46472-MB1	1	X	
11:32	MP46472-B1	1	X	
11:34	ZZZZZZ	1		
11:35	MA56021-CCV3	1	X	
11:37	MA56021-CCB3	1	X	
11:43	MP46448-MB1	1		
11:45	MP46448-B1	1	X	
11:46	MP46448-B2	1	X	
11:48	MP46448-S1	1	X	
11:50	MP46448-S2	1	X	
11:52	JD87813-1F	1	X	(a)
11:53	ZZZZZZ	1		
11:55	ZZZZZZ	1		
11:56	MA56021-CCV4	1	X	
11:58	MA56021-CCB4	1	X	
12:00	ZZZZZZ	1		
12:01	ZZZZZZ	1		
12:03	ZZZZZZ	1		
12:04	ZZZZZZ	1		
12:06	ZZZZZZ	1		
12:07	ZZZZZZ	1		
12:08	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56021
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
12:10	ZZZZZZ	1		
12:11	MA56021-CCV5	1	X	
12:13	MA56021-CCB5	1	X	
12:15	ZZZZZZ	1		
12:16	JD87833-17	1	X	
12:18	ZZZZZZ	1		
12:19	MP46473-MB1	1		
12:19	MP46473-MB1	1		
12:20	MP46473-LB1	1		
12:20	MP46473-LB1	1		
12:22	MP46473-B1	1		
12:22	MP46473-B1	1	X	
12:23	MP46473-LS1	1		
12:23	MP46473-LS1	1	X	
12:25	MP46473-S1	1		
12:25	MP46473-S1	1	X	
12:27	MA56021-CCV6	1	X	
12:29	MA56021-CCB6	1	X	
12:31	MP46473-S2	1		
12:31	MP46473-S2	1	X	
12:32	JD87093-1AT	1	X	(a)
12:34	ZZZZZZ	1		
12:35	ZZZZZZ	1		
12:36	ZZZZZZ	1		
12:38	MP46474-MB1	1		
12:39	MP46474-LB1	1		
12:48	MP46474-B1	1	X	
12:49	MA56021-CCV7	1	X	
12:53	MA56021-CCB7	1	X	
12:56	MP46474-LS1	1		
12:57	MP46474-S1	1	X	
12:59	MP46474-S2	1	X	
13:00	JD87474-1	1	X	(a)
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56021
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
13:02	ZZZZZZ	1		
13:04	ZZZZZZ	1		
13:05	MA56021-CCV8	1	X	
13:06	MA56021-CCB8	1	X	
13:08	MP46475-MB1	1	X	
13:10	MP46475-LB1	1		
13:11	MP46475-B1	1		
13:12	MP46475-B1	1	X	
13:14	MP46475-LS1	1	X	
13:15	MP46475-S1	1	X	
13:17	MP46475-S2	1	X	
13:19	JD87563-1	1	X	(a)
13:21	ZZZZZZ	1		
13:22	MA56021-CCV9	1	X	
13:24	MA56021-CCB9	1	X	
13:25	ZZZZZZ	1		
13:27	ZZZZZZ	1		
13:28	ZZZZZZ	1		
13:30	ZZZZZZ	1		
13:31	ZZZZZZ	1		
13:32	ZZZZZZ	1		
13:34	ZZZZZZ	1		
13:35	ZZZZZZ	1		
13:37	MA56021-CCV10	1	X	
13:38	MA56021-CCB10	1	X	
13:40	ZZZZZZ	1		
13:41	ZZZZZZ	1		
13:43	ZZZZZZ	1		
13:44	ZZZZZZ	1		
13:46	ZZZZZZ	1		
13:47	ZZZZZZ	1		
13:48	ZZZZZZ	1		
13:50	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56021
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
13:51	MA56021-CCV11	1	X	
13:53	MA56021-CCB11	1	X	
13:54	ZZZZZZ	1		
13:56	ZZZZZZ	1		
13:57	MP46476-MB1	1	X	
13:59	MP46476-LB1	1		
14:00	MP46476-B1	1	X	
14:01	MP46476-LS1	1	X	
14:21	MP46474-LS1	1	X	
14:22	MA56021-CCV12	1	X	
14:24	MA56021-CCB12	1	X	
14:27	MP46476-S1	1	X	
14:28	MP46476-S2	1	X	
14:30	JD87563-21	1	X	(a)
14:32	ZZZZZZ	1		
14:33	ZZZZZZ	1		
14:35	ZZZZZZ	1		
14:36	ZZZZZZ	1		
14:38	ZZZZZZ	1		
14:39	MA56021-CCV13	1	X	
14:40	MA56021-CCB13	1	X	
14:42	ZZZZZZ	1		
14:44	ZZZZZZ	1		
14:45	ZZZZZZ	1		
14:47	ZZZZZZ	1		
14:48	ZZZZZZ	1		
14:49	MA56021-CCV14	1	X	
14:51	MA56021-CCB14	1	X	
14:53	MP46477-MB1	1	X	
14:54	MP46477-LB1	1		
14:55	MP46477-B1	1	X	
14:57	MP46477-LS1	1	X	
14:59	MP46477-S1	1	X	
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56021
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg
15:01	MP46477-S2	1	X
15:02	MA56021-CCV15	1	X
15:04	MA56021-CCB15	1	X
15:06	JD87485-1	1	X (a)
15:07	MP46448-MB1	1	X
15:09	MP46473-MB1	1	
15:09	MP46473-MB1	1	X
15:10	MP46474-MB1	1	X
15:12	MA56021-CCV16	1	
15:14	MA56021-CCV17	1	X
15:17	MA56021-CCB16	1	X
15:18	ZZZZZZ	1	
15:19	ZZZZZZ	1	
15:21	ZZZZZZ	1	
15:23	ZZZZZZ	1	
15:25	ZZZZZZ	1	
15:27	ZZZZZZ	1	

(a) Sample used for QC only; not part of login JD87833.

Element: Hg

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56021 Units: ug/l

Time:			11:15		11:18		11:28		11:37	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.013	-0.0320	<0.20	-0.0134	<0.20	-0.0188	<0.20	-0.0126	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56021 Units: ug/l

Time:			11:58		12:13		12:29		12:53	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.013	-0.0166	<0.20	-0.00300	<0.20	-0.0284	<0.20	-0.0226	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56021 Units: ug/l

Time:			13:06		13:24		13:38		13:53	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.013	-0.0147	<0.20	-0.0158	<0.20	-0.0160	<0.20	-0.00680	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56021 Units: ug/l

Time:			14:24		14:40		14:51		15:04	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.013	-0.0503	<0.20	-0.00790	<0.20	-0.00830	<0.20	-0.0175	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56021 Units: ug/l

Time:			15:17	
Sample ID:			CCB16	
Metal	RL	IDL	raw	final
Mercury	0.20	.013	-0.0808	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56021 Units: ug/l

Time:		11:13			11:17			11:26	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	3.20	106.7	2.5	2.44	97.6	2.5	2.44	97.6

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56021 Units: ug/l

Time:		11:35			11:56			12:11	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.46	98.4	2.5	2.43	97.2	2.5	2.42	96.8

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56021 Units: ug/l

Time:		12:27			12:49			13:05	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.37	94.8	2.5	2.39	95.6	2.5	2.51	100.4

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56021 Units: ug/l

Time:		13:22			13:37			13:51	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.53	101.2	2.5	2.57	102.8	2.5	2.53	101.2

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56021 Units: ug/l

Time:		14:22			14:39			14:49	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.52	100.8	2.5	2.57	102.8	2.5	2.53	101.2

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56021 Units: ug/l

Time:		15:02			15:14	
Sample ID:	CCV	CCV15		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.47	98.8	2.5	2.63	105.2

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8050824W1.CSV Date Analyzed: 05/08/24 Methods: SW846 7470A
QC Limits: 70 to 130 % Recovery Run ID: MA56021 Units: ug/l

Time:			11:20	
Sample ID:	CRI	CRIA	CRI1	
Metal	True	True	Results	% Rec
Mercury	0.20		0.202	101.0

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:01	MA56025-STD1	1		STDA
10:06	MA56025-STD2	1		STDB
10:12	MA56025-ICV1	1		
10:17	MA56025-ICB1	1		
10:23	MA56025-ICCV1	1		
10:29	MA56025-CCB1	1		
10:34	MA56025-CRI1	1		
10:39	MA56025-CRID1	1		
10:44	MA56025-ICSA1	1		
10:49	MA56025-ICSAB1	1		
10:55	MA56025-HSTD1	1		
11:01	MA56025-HSTD2	1		
11:11	ZZZZZZ	1		
11:16	ZZZZZZ	1		
11:21	ZZZZZZ	1		
11:26	ZZZZZZ	1		
11:32	MA56025-CCV1	1		
11:36	MA56025-CCB2	1		
11:41	ZZZZZZ	1		
11:46	ZZZZZZ	1		
11:51	ZZZZZZ	1		
11:56	MP46387-MB1	1		
12:01	MP46387-B1	1		
12:06	MP46387-LC1	1		Batch to redigest, LC failed
12:11	MP46387-LC2	1		
12:16	MP46387-S1	1		
12:21	MP46387-S2	1		
12:26	JD87487-3	1		(sample used for QC only; not part of login JD87833)
12:32	MA56025-CCV2	1		
12:36	MA56025-CCB3	1		
12:41	MP46387-SD1	5		
12:46	MP46387-PS1	1		
12:52	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:57	ZZZZZZ	1		
13:02	ZZZZZZ	1		
13:07	ZZZZZZ	1		
13:12	ZZZZZZ	1		
13:17	ZZZZZZ	1		
13:22	ZZZZZZ	1		
13:26	ZZZZZZ	1		
13:31	MA56025-CCV3	1		
13:36	MA56025-CCB4	1		
13:41	ZZZZZZ	1		
13:46	ZZZZZZ	1		
13:51	ZZZZZZ	1		
13:56	ZZZZZZ	1		
14:01	ZZZZZZ	1		
14:06	ZZZZZZ	1		
14:11	ZZZZZZ	1		
14:16	ZZZZZZ	1		
14:21	ZZZZZZ	1		
14:26	ZZZZZZ	1		
14:31	MA56025-CCV4	1		
14:35	MA56025-CCB5	1		
14:40	ZZZZZZ	1		
14:46	MP46388-B1	1		
14:51	MP46388-MB1	1		
14:56	MP46388-S1	1		
15:00	MP46388-S2	1		
15:05	JD87562-5	1		(sample used for QC only; not part of login JD87833)
15:10	MP46388-SD1	5		
15:15	MP46388-PS1	1		
15:20	ZZZZZZ	1		
15:25	ZZZZZZ	1		
15:30	MA56025-CCV5	1		
15:34	MA56025-CCB6	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:39	ZZZZZZ	1		
15:44	ZZZZZZ	1		
15:49	ZZZZZZ	1		
15:54	ZZZZZZ	1		
15:59	ZZZZZZ	1		
16:04	ZZZZZZ	1		
16:09	ZZZZZZ	1		
16:14	ZZZZZZ	1		
16:19	ZZZZZZ	1		
16:23	ZZZZZZ	1		
16:28	MA56025-CCV6	1		
16:33	MA56025-CCB7	1		
16:38	ZZZZZZ	1		
16:43	ZZZZZZ	1		
16:48	ZZZZZZ	1		
16:53	ZZZZZZ	1		
16:58	ZZZZZZ	1		
17:03	ZZZZZZ	1		
17:08	ZZZZZZ	1		
17:12	MP46389-B1	1		
17:17	MP46389-MB1	1		
17:22	MP46389-S1	1		FE, MN high
17:27	MA56025-CCV7	1		
17:32	MA56025-CCB8	1		
17:37	MP46389-S2	1		FE, MN high
17:43	JD87473-2	1		(sample used for QC only; not part of login JD87833)
17:48	MP46389-SD1	5		FE, MN high
17:53	MP46389-PS1	1		
17:58	ZZZZZZ	1		
18:03	ZZZZZZ	1		
18:08	ZZZZZZ	1		
18:13	ZZZZZZ	1		
18:19	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:24	ZZZZZZ	1		
18:29	MA56025-CCV8	1		
18:34	MA56025-CCB9	1		
18:39	ZZZZZZ	1		
18:44	ZZZZZZ	1		
18:49	ZZZZZZ	1		
18:54	ZZZZZZ	1		
18:59	ZZZZZZ	1		
19:04	ZZZZZZ	1		
19:09	ZZZZZZ	1		
19:14	ZZZZZZ	1		
19:19	ZZZZZZ	1		
19:24	ZZZZZZ	1		
19:29	MA56025-CCV9	1		
19:34	MA56025-CCB10	1		
19:39	ZZZZZZ	1		
19:44	ZZZZZZ	1		
19:48	ZZZZZZ	1		
19:54	MP46431-MB1	1		
19:59	MP46431-B1	1		
20:03	JD87831-1	1		(sample used for QC only; not part of login JD87833)
20:08	ZZZZZZ	1		
20:13	ZZZZZZ	1		
20:19	MA56025-CCV10	1		
20:23	MA56025-CCB11	1		
20:28	MP46415-MB1	1		
20:33	MP46415-B1	1		
20:38	MP46415-S1	1		
20:43	MP46415-S2	1		
20:48	JD87760-5	1		(sample used for QC only; not part of login JD87833)
20:53	MP46415-SD1	5		
20:58	MP46415-PS1	1		
21:03	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:08	ZZZZZZ	1		
21:13	MA56025-CCV11	1		
21:18	MA56025-CCB12	1		
21:23	ZZZZZZ	1		
21:28	ZZZZZZ	1		
21:33	ZZZZZZ	1		
21:38	ZZZZZZ	1		
21:43	ZZZZZZ	1		
21:48	ZZZZZZ	1		
21:53	ZZZZZZ	1		
21:58	ZZZZZZ	1		
22:03	ZZZZZZ	1		
22:07	MA56025-CCV12	1		
22:12	MA56025-CCB13	1		
22:17	ZZZZZZ	1		
22:22	ZZZZZZ	1		
22:27	ZZZZZZ	1		
22:32	ZZZZZZ	1		
22:37	ZZZZZZ	1		
22:42	MP46390-B1	1		
22:47	MP46390-MB1	1		
22:52	MA56025-CCV13	1		
22:57	MA56025-CCB14	1		
23:02	MP46390-S1	50		Needs post spike for Al and AG at 1;50
23:07	MP46390-S2	50		
23:12	JD87597-1	50		(sample used for QC only; not part of login JD87833)
23:17	MP46390-SD1	250		
23:22	ZZZZZZ	1		
23:27	ZZZZZZ	1		
23:32	ZZZZZZ	10		
23:37	ZZZZZZ	1		
23:43	ZZZZZZ	10		
23:48	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
23:53	MA56025-CCV14	1		
23:58	MA56025-CCB15	1		
00:03	ZZZZZZ	10		
00:07	ZZZZZZ	1		
00:13	ZZZZZZ	10		
00:18	ZZZZZZ	1		
00:23	ZZZZZZ	1		
00:28	ZZZZZZ	1		
00:34	ZZZZZZ	1		
00:40	ZZZZZZ	1		
00:46	ZZZZZZ	1		
00:51	ZZZZZZ	1		
00:57	MA56025-CCV15	1		
01:02	MA56025-CCB16	1		
01:07	ZZZZZZ	1		
01:12	ZZZZZZ	1		
01:17	ZZZZZZ	10		
01:22	ZZZZZZ	10		
01:27	ZZZZZZ	10		
01:32	ZZZZZZ	10		
01:37	ZZZZZZ	10		
01:42	ZZZZZZ	10		
01:46	ZZZZZZ	1		
01:51	MP46430-LB1	1		
01:56	MA56025-CCV16	1		
02:01	MA56025-CCB17	1		
02:06	MP46430-LS1	1		
02:11	MP46430-S1	1		
02:17	MP46430-S2	1		
02:22	JD87474-1	1		(sample used for QC only; not part of login JD87833)
02:27	MP46430-SD1	5		
02:32	ZZZZZZ	1		
02:38	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
02:43	ZZZZZZ	2		
02:48	MP46387-S1	5		
02:53	MP46387-S2	5		
02:57	MA56025-CCV17	1		
03:02	MA56025-CCB18	1		
03:07	MP46431-S1	1		to redigest -s1, s2, they dont match the sample
03:12	MP46431-S2	1		to redigest -s1, s2, they dont match the sample
03:17	MP46431-SD1	5		
03:22	ZZZZZZ	1		
03:27	ZZZZZZ	1		
03:32	ZZZZZZ	1		
03:37	ZZZZZZ	1		
03:42	ZZZZZZ	1		
03:47	ZZZZZZ	1		
03:52	ZZZZZZ	1		
03:57	MA56025-CCV18	1		
04:02	MA56025-CCB19	1		
04:07	ZZZZZZ	1		
04:12	ZZZZZZ	1		
04:17	ZZZZZZ	1		
04:22	JD87833-17	1		
---------->	Last reportable sample/prep for job JD87833			
04:27	ZZZZZZ	1		
04:32	ZZZZZZ	1		
04:37	ZZZZZZ	1		
04:42	ZZZZZZ	1		
04:47	ZZZZZZ	1		
04:52	ZZZZZZ	1		
04:57	MA56025-CCV19	1		
05:02	MA56025-CCB20	1		
---------->	Last reportable CCB for job JD87833			
07:22	ZZZZZZ	5		
07:28	MP46354-SD1	5		
07:38	MA56025-CCV20	1		
07:43	MA56025-CCB21	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn
10:12	MA56025-ICV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10:17	MA56025-ICB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10:23	MA56025-ICCV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10:29	MA56025-CCB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10:34	MA56025-CRI1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10:39	MA56025-CRID1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10:44	MA56025-ICSA1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10:49	MA56025-ICSAB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10:55	MA56025-HSTD1	1	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X
11:01	MA56025-HSTD2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11:11	ZZZZZZ	1																						
11:16	ZZZZZZ	1																						
11:21	ZZZZZZ	1																						
11:26	ZZZZZZ	1																						
11:32	MA56025-CCV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11:36	MA56025-CCB2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11:41	ZZZZZZ	1																						
11:46	ZZZZZZ	1																						
11:51	ZZZZZZ	1																						
11:56	MP46387-MB1	1																						
12:01	MP46387-B1	1																						
12:06	MP46387-LC1	1	Batch to redigest, LC failed																					
12:11	MP46387-LC2	1																						
12:16	MP46387-S1	1																						
12:21	MP46387-S2	1																						
12:26	JD87487-3	1																						
12:32	MA56025-CCV2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12:36	MA56025-CCB3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12:41	MP46387-SD1	5																						
12:46	MP46387-PS1	1																						
12:52	ZZZZZZ	1																						
12:57	ZZZZZZ	1																						
13:02	ZZZZZZ	1																						
	Element:		Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
13:07	ZZZZZZ	1																							
13:12	ZZZZZZ	1																							
13:17	ZZZZZZ	1																							
13:22	ZZZZZZ	1																							
13:26	ZZZZZZ	1																							
13:31	MA56025-CCV3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
13:36	MA56025-CCB4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
13:41	ZZZZZZ	1																							
13:46	ZZZZZZ	1																							
13:51	ZZZZZZ	1																							
13:56	ZZZZZZ	1																							
14:01	ZZZZZZ	1																							
14:06	ZZZZZZ	1																							
14:11	ZZZZZZ	1																							
14:16	ZZZZZZ	1																							
14:21	ZZZZZZ	1																							
14:26	ZZZZZZ	1																							
14:31	MA56025-CCV4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
14:35	MA56025-CCB5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
14:40	ZZZZZZ	1																							
14:46	MP46388-B1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
14:51	MP46388-MB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
14:56	MP46388-S1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
15:00	MP46388-S2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
15:05	JD87562-5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	(a)
15:10	MP46388-SD1	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
15:15	MP46388-PS1	1	X																						
15:20	ZZZZZZ	1																							
15:25	ZZZZZZ	1																							
15:30	MA56025-CCV5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
15:34	MA56025-CCB6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
15:39	ZZZZZZ	1																							
15:44	ZZZZZZ	1																							
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
15:49	ZZZZZZ	1																							
15:54	ZZZZZZ	1																							
15:59	ZZZZZZ	1																							
16:04	ZZZZZZ	1																							
16:09	ZZZZZZ	1																							
16:14	ZZZZZZ	1																							
16:19	ZZZZZZ	1																							
16:23	ZZZZZZ	1																							
16:28	MA56025-CCV6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:33	MA56025-CCB7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:38	ZZZZZZ	1																							
16:43	ZZZZZZ	1																							
16:48	ZZZZZZ	1																							
16:53	ZZZZZZ	1																							
16:58	ZZZZZZ	1																							
17:03	ZZZZZZ	1																							
17:08	ZZZZZZ	1																							
17:12	MP46389-B1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:17	MP46389-MB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:22	MP46389-S1	1	X	X	X	X	X	X	X	X	X			X	X		X	X		X	X	X	X	X	
17:27	MA56025-CCV7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:32	MA56025-CCB8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:37	MP46389-S2	1	X	X	X	X	X	X	X	X	X			X	X		X	X		X	X	X	X	X	
17:43	JD87473-2	1			X	X		X		X				X						X					(a)
17:48	MP46389-SD1	5	X	X	X	X	X	X	X	X	X			X	X		X	X		X	X	X	X	X	
17:53	MP46389-PS1	1		X		X																			
17:58	ZZZZZZ	1																							
18:03	ZZZZZZ	1																							
18:08	ZZZZZZ	1																							
18:13	ZZZZZZ	1																							
18:19	ZZZZZZ	1																							
18:24	ZZZZZZ	1																							
18:29	MA56025-CCV8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
18:34	MA56025-CCB9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:39	ZZZZZZ	1																							
18:44	ZZZZZZ	1																							
18:49	ZZZZZZ	1																							
18:54	ZZZZZZ	1																							
18:59	ZZZZZZ	1																							
19:04	ZZZZZZ	1																							
19:09	ZZZZZZ	1																							
19:14	ZZZZZZ	1																							
19:19	ZZZZZZ	1																							
19:24	ZZZZZZ	1																							
19:29	MA56025-CCV9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:34	MA56025-CCB10	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:39	ZZZZZZ	1																							
19:44	ZZZZZZ	1																							
19:48	ZZZZZZ	1																							
19:54	MP46431-MB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:59	MP46431-B1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:03	JD87831-1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	(a)
20:08	ZZZZZZ	1																							
20:13	ZZZZZZ	1																							
20:19	MA56025-CCV10	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:23	MA56025-CCB11	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:28	MP46415-MB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:33	MP46415-B1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:38	MP46415-S1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:43	MP46415-S2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:48	JD87760-5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	(a)
20:53	MP46415-SD1	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:58	MP46415-PS1	1		X																					
21:03	ZZZZZZ	1																							
21:08	ZZZZZZ	1																							
21:13	MA56025-CCV11	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
21:18	MA56025-CCB12	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:23	ZZZZZZ	1																							
21:28	ZZZZZZ	1																							
21:33	ZZZZZZ	1																							
21:38	ZZZZZZ	1																							
21:43	ZZZZZZ	1																							
21:48	ZZZZZZ	1																							
21:53	ZZZZZZ	1																							
21:58	ZZZZZZ	1																							
22:03	ZZZZZZ	1																							
22:07	MA56025-CCV12	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22:12	MA56025-CCB13	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22:17	ZZZZZZ	1																							
22:22	ZZZZZZ	1																							
22:27	ZZZZZZ	1																							
22:32	ZZZZZZ	1																							
22:37	ZZZZZZ	1																							
22:42	MP46390-B1	1											X		X										
22:47	MP46390-MB1	1											X		X										
22:52	MA56025-CCV13	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22:57	MA56025-CCB14	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23:02	MP46390-S1	50	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X	X	X	
23:07	MP46390-S2	50	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X	X	X	
23:12	JD87597-1	50	X			X			X				X		X	X	X		X			X			(a)
23:17	MP46390-SD1	250	X	X	X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	
23:22	ZZZZZZ	1																							
23:27	ZZZZZZ	1																							
23:32	ZZZZZZ	10																							
23:37	ZZZZZZ	1																							
23:43	ZZZZZZ	10																							
23:48	ZZZZZZ	1																							
23:53	MA56025-CCV14	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23:58	MA56025-CCB15	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
00:03	ZZZZZZ	10																							
00:07	ZZZZZZ	1																							
00:13	ZZZZZZ	10																							
00:18	ZZZZZZ	1																							
00:23	ZZZZZZ	1																							
00:28	ZZZZZZ	1																							
00:34	ZZZZZZ	1																							
00:40	ZZZZZZ	1																							
00:46	ZZZZZZ	1																							
00:51	ZZZZZZ	1																							
00:57	MA56025-CCV15	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
01:02	MA56025-CCB16	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
01:07	ZZZZZZ	1																							
01:12	ZZZZZZ	1																							
01:17	ZZZZZZ	10																							
01:22	ZZZZZZ	10																							
01:27	ZZZZZZ	10																							
01:32	ZZZZZZ	10																							
01:37	ZZZZZZ	10																							
01:42	ZZZZZZ	10																							
01:46	ZZZZZZ	1																							
01:51	MP46430-LB1	1																							
01:56	MA56025-CCV16	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
02:01	MA56025-CCB17	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
02:06	MP46430-LS1	1			X	X		X		X		X		X			X		X	X				X	
02:11	MP46430-S1	1			X	X		X		X		X		X			X		X	X				X	
02:17	MP46430-S2	1			X	X		X		X		X		X			X		X	X				X	
02:22	JD87474-1	1			X	X		X		X		X		X			X		X	X				X	(a)
02:27	MP46430-SD1	5			X	X		X		X		X		X			X		X	X				X	
02:32	ZZZZZZ	1																							
02:38	ZZZZZZ	1																							
02:43	ZZZZZZ	2																							
02:48	MP46387-S1	5																							
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn
02:53	MP46387-S2	5																						
02:57	MA56025-CCV17	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
03:02	MA56025-CCB18	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
03:07	MP46431-S1	1	to redigest -s1, s2, they dont match the sample																					
03:12	MP46431-S2	1	to redigest -s1, s2, they dont match the sample																					
03:17	MP46431-SD1	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
03:22	ZZZZZZ	1																						
03:27	ZZZZZZ	1																						
03:32	ZZZZZZ	1																						
03:37	ZZZZZZ	1																						
03:42	ZZZZZZ	1																						
03:47	ZZZZZZ	1																						
03:52	ZZZZZZ	1																						
03:57	MA56025-CCV18	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
04:02	MA56025-CCB19	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
04:07	ZZZZZZ	1																						
04:12	ZZZZZZ	1																						
04:17	ZZZZZZ	1																						
04:22	JD87833-17	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
04:27	ZZZZZZ	1																						
04:32	ZZZZZZ	1																						
04:37	ZZZZZZ	1																						
04:42	ZZZZZZ	1																						
04:47	ZZZZZZ	1																						
04:52	ZZZZZZ	1																						
04:57	MA56025-CCV19	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
05:02	MA56025-CCB20	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07:22	ZZZZZZ	5																						
07:28	MP46354-SD1	5																						X
07:38	MA56025-CCV20	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
07:43	MA56025-CCB21	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

(a) Sample used for QC only; not part of login JD87833.

Element: Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni K Se Ag Na Tl V Zn

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:01	MA56025-STD1	7440 R	149850 R	18582 R	12376 R
10:06	MA56025-STD2	7002	138440	18361	10847
10:12	MA56025-ICV1	7077	140510	18150	11140
10:17	MA56025-ICB1	7302	146790	18168	12208
10:23	MA56025-ICCV1	7076	140060	18020	11157
10:29	MA56025-CCB1	7312	147050	18115	12253
10:34	MA56025-CRI1	7217	145540	18142	11981
10:39	MA56025-CRID1	7275	146630	18002	12184
10:44	MA56025-ICSA1	6569	128920	17447	10091
10:49	MA56025-ICSAB1	6559	129300	17540	10083
10:55	MA56025-HSTD1	7265	144360	18085	11915
11:01	MA56025-HSTD2	6674	132230	17658	10211
11:11	ZZZZZZ	7587	140950	19017	11187
11:16	ZZZZZZ	6739	135110	17624	10687
11:21	ZZZZZZ	7192	144030	18125	12202
11:26	ZZZZZZ	7257	146110	17928	12158
11:32	MA56025-CCV1	7045	140140	17735	11151
11:36	MA56025-CCB2	7240	146480	17900	12174
11:41	ZZZZZZ	6962	138650	17149	12054
11:46	ZZZZZZ	6895	138190	17015	11949
11:51	ZZZZZZ	6902	138320	17023	11956
11:56	MP46387-MB1	No results reported for the elements associated with this internal standard.			
12:01	MP46387-B1	No results reported for the elements associated with this internal standard.			
12:06	MP46387-LC1	No results reported for the elements associated with this internal standard.			
12:11	MP46387-LC2	No results reported for the elements associated with this internal standard.			
12:16	MP46387-S1	No results reported for the elements associated with this internal standard.			
12:21	MP46387-S2	No results reported for the elements associated with this internal standard.			
12:26	JD87487-3	No results reported for the elements associated with this internal standard.			
12:32	MA56025-CCV2	7008	139650	17855	11094
12:36	MA56025-CCB3	7229	146840	17984	12158
12:41	MP46387-SD1	No results reported for the elements associated with this internal standard.			
12:46	MP46387-PS1	No results reported for the elements associated with this internal standard.			
12:52	ZZZZZZ	No results reported for the elements associated with this internal standard.			

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:57	ZZZZZZ	No results reported for the elements associated with this internal standard.			
13:02	ZZZZZZ	No results reported for the elements associated with this internal standard.			
13:07	ZZZZZZ	No results reported for the elements associated with this internal standard.			
13:12	ZZZZZZ	No results reported for the elements associated with this internal standard.			
13:17	ZZZZZZ	No results reported for the elements associated with this internal standard.			
13:22	ZZZZZZ	No results reported for the elements associated with this internal standard.			
13:26	ZZZZZZ	No results reported for the elements associated with this internal standard.			
13:31	MA56025-CCV3	7005	140610	17761	11103
13:36	MA56025-CCB4	7209	146980	18006	12136
13:41	ZZZZZZ	No results reported for the elements associated with this internal standard.			
13:46	ZZZZZZ	No results reported for the elements associated with this internal standard.			
13:51	ZZZZZZ	No results reported for the elements associated with this internal standard.			
13:56	ZZZZZZ	No results reported for the elements associated with this internal standard.			
14:01	ZZZZZZ	No results reported for the elements associated with this internal standard.			
14:06	ZZZZZZ	No results reported for the elements associated with this internal standard.			
14:11	ZZZZZZ	No results reported for the elements associated with this internal standard.			
14:16	ZZZZZZ	No results reported for the elements associated with this internal standard.			
14:21	ZZZZZZ	No results reported for the elements associated with this internal standard.			
14:26	ZZZZZZ	No results reported for the elements associated with this internal standard.			
14:31	MA56025-CCV4	7018	141230	17714	11181
14:35	MA56025-CCB5	7251	147550	17764	12262
14:40	ZZZZZZ	No results reported for the elements associated with this internal standard.			
14:46	MP46388-B1	7122	143850	18059	11540
14:51	MP46388-MB1	7249	147740	18085	12329
14:56	MP46388-S1	7110	143620	18205	11423
15:00	MP46388-S2	7197	145270	18323	11534
15:05	JD87562-5	7335	148220	18272	12162
15:10	MP46388-SD1	7288	149150	18069	12228
15:15	MP46388-PS1	7065	143780	17984	11416
15:20	ZZZZZZ	7297	147560	18343	12067
15:25	ZZZZZZ	7312	149130	18425	12146
15:30	MA56025-CCV5	7014	141740	17928	11198
15:34	MA56025-CCB6	7214	147950	18001	12237

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:39	ZZZZZZ	7365	150200	18494	12212
15:44	ZZZZZZ	7396	147870	18550	11991
15:49	ZZZZZZ	7352	149480	18421	12136
15:54	ZZZZZZ	7357	146980	18486	11933
15:59	ZZZZZZ	7389	148040	18568	11980
16:04	ZZZZZZ	7317	149210	18355	12086
16:09	ZZZZZZ	7296	149640	18432	12122
16:14	ZZZZZZ	7457	149200	18823	12030
16:19	ZZZZZZ	7367	148100	18600	11885
16:23	ZZZZZZ	7382	151080	18595	12118
16:28	MA56025-CCV6	7005	141780	17939	11201
16:33	MA56025-CCB7	7215	148250	17934	12260
16:38	ZZZZZZ	7439	147540	18654	11895
16:43	ZZZZZZ	7239	147040	18395	11930
16:48	ZZZZZZ	7364	150190	18525	12134
16:53	ZZZZZZ	7338	148350	18461	12062
16:58	ZZZZZZ	7310	148130	18472	12119
17:03	ZZZZZZ	7429	146490	18529	11863
17:08	ZZZZZZ	7316	147180	18649	11550
17:12	MP46389-B1	7122	145050	18146	11545
17:17	MP46389-MB1	7265	149630	18319	12354
17:22	MP46389-S1	7661	153180	19796	11195
17:27	MA56025-CCV7	7025	142310	17771	11231
17:32	MA56025-CCB8	7199	148450	17901	12241
17:37	MP46389-S2	7504	149500	19366	11162
17:43	JD87473-2	7733	155010	20013	11350
17:48	MP46389-SD1	7428	149180	18182	11921
17:53	MP46389-PS1	7545	151240	19745	11138
17:58	ZZZZZZ	7716	153210	19610	11524
18:03	ZZZZZZ	7351	145700	18782	11677
18:08	ZZZZZZ	7249	147890	18772	11216
18:13	ZZZZZZ	7308	148590	19082	11247
18:19	ZZZZZZ	7631	154840	19887	11608

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:24	ZZZZZZ	7262	149540	19148	11255
18:29	MA56025-CCV8	7010	142930	17870	11189
18:34	MA56025-CCB9	7207	148610	17846	12234
18:39	ZZZZZZ	7275	147540	18949	11124
18:44	ZZZZZZ	7274	148350	18855	11257
18:49	ZZZZZZ	7003	143980	17987	11722
18:54	ZZZZZZ	6881	143600	17973	11374
18:59	ZZZZZZ	7043	143930	17499	11588
19:04	ZZZZZZ	6966	144740	17711	11441
19:09	ZZZZZZ	7579	151330	19034	11810
19:14	ZZZZZZ	7550	151620	19203	11869
19:19	ZZZZZZ	7701	153590	19631	11813
19:24	ZZZZZZ	7552	151560	19400	11804
19:29	MA56025-CCV9	6997	142460	17843	11163
19:34	MA56025-CCB10	7207	147840	17979	12212
19:39	ZZZZZZ	7638	151790	19174	11719
19:44	ZZZZZZ	7700	153270	19346	11769
19:48	ZZZZZZ	7386	146910	18636	11740
19:54	MP46431-MB1	7187	148430	17920	12199
19:59	MP46431-B1	7070	143660	17765	11449
20:03	JD87831-1	7147	143800	18026	11291
20:08	ZZZZZZ	7406	148570	18872	10981
20:13	ZZZZZZ	7802	157750	20501	10691
20:19	MA56025-CCV10	7056	143070	17938	11255
20:23	MA56025-CCB11	7272	148710	18128	12282
20:28	MP46415-MB1	7198	150680	18397	12241
20:33	MP46415-B1	7070	143620	17988	11424
20:38	MP46415-S1	7314	147820	18842	11208
20:43	MP46415-S2	7247	147480	18828	11117
20:48	JD87760-5	7480	151030	18943	11745
20:53	MP46415-SD1	7294	148350	18116	11976
20:58	MP46415-PS1	7290	144690	18814	11364
21:03	ZZZZZZ	7175	147140	18856	11111

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
21:08	ZZZZZZ	7028	143810	18557	10904
21:13	MA56025-CCV11	6971	141150	17591	11171
21:18	MA56025-CCB12	7217	148140	17790	12260
21:23	ZZZZZZ	7507	148550	18792	11902
21:28	ZZZZZZ	7484	149920	18638	11996
21:33	ZZZZZZ	7375	146590	18670	11748
21:38	ZZZZZZ	7544	148800	19169	11801
21:43	ZZZZZZ	7784	156780	19791	12040
21:48	ZZZZZZ	7389	146770	18694	11767
21:53	ZZZZZZ	7467	150800	19236	11610
21:58	ZZZZZZ	7496	151960	19258	11864
22:03	ZZZZZZ	7468	147750	18729	11818
22:07	MA56025-CCV12	6959	141700	17601	11117
22:12	MA56025-CCB13	7174	147660	17717	12178
22:17	ZZZZZZ	7458	149420	18690	11903
22:22	ZZZZZZ	7381	149340	18608	11988
22:27	ZZZZZZ	7488	149820	18855	11874
22:32	ZZZZZZ	7563	151260	18904	11888
22:37	ZZZZZZ	7356	999999 !a	18515	11903
22:42	MP46390-B1	7016	141930	17207	11480
22:47	MP46390-MB1	7213	145490	17612	12457
22:52	MA56025-CCV13	7000	141940	17382	11210
22:57	MA56025-CCB14	7254	148030	17567	12315
23:02	MP46390-S1	7248	147020	17849	11761
23:07	MP46390-S2	7277	147490	17753	11783
23:12	JD87597-1	7308	147560	17943	11851
23:17	MP46390-SD1	7254	148730	17762	12123
23:22	ZZZZZZ	6722	137460	17380	10663
23:27	ZZZZZZ	6022	123780	16734	9331
23:32	ZZZZZZ	6895	140330	17364	11115
23:37	ZZZZZZ	5849	999999 !a	16648	9051
23:43	ZZZZZZ	6912	142420	17934	11066
23:48	ZZZZZZ	6286	124380	16932	9593

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
23:53	MA56025-CCV14	7139	144730	17932	11328
23:58	MA56025-CCB15	7276	149070	17833	12267
00:03	ZZZZZZ	7026	142570	17698	11320
00:07	ZZZZZZ	6584	134430	17392	10446
00:13	ZZZZZZ	7166	145730	17712	11835
00:18	ZZZZZZ	7271	148150	17857	12354
00:23	ZZZZZZ	6668	132320	17762	9843
00:28	ZZZZZZ	6546	134310	17684	10446
00:34	ZZZZZZ	6508	131770	17682	9709
00:40	ZZZZZZ	6627	133700	17718	9820
00:46	ZZZZZZ	6736	133580	17873	10008
00:51	ZZZZZZ	6495	131990	17671	11029
00:57	MA56025-CCV15	7116	144000	17527	11361
01:02	MA56025-CCB16	7317	150770	17679	12432
01:07	ZZZZZZ	7954	159500	19878	11555
01:12	ZZZZZZ	7741	155490	19578	11878
01:17	ZZZZZZ	7121	145150	17719	11364
01:22	ZZZZZZ	7131	144420	17564	11545
01:27	ZZZZZZ	7112	144520	17645	11326
01:32	ZZZZZZ	7116	144260	17801	11356
01:37	ZZZZZZ	7115	144700	17822	11339
01:42	ZZZZZZ	7071	144730	17704	11510
01:46	ZZZZZZ	7296	148820	17901	12350
01:51	MP46430-LB1	6365	127160	17453	9774
01:56	MA56025-CCV16	7052	143390	17484	11256
02:01	MA56025-CCB17	7276	150310	17681	12311
02:06	MP46430-LS1	6458	129520	17433	9676
02:11	MP46430-S1	6213	127910	17073	9300
02:17	MP46430-S2	6230	126470	17213	9318
02:22	JD87474-1	6185	125550	17277	9331
02:27	MP46430-SD1	6806	138570	17635	10678
02:32	ZZZZZZ	6041	123210	16954	9198
02:38	ZZZZZZ	6006	121600	16932	9148

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
02:43	ZZZZZZ	7336	150830	18375	11663
02:48	MP46387-S1	No results reported for the elements associated with this internal standard.			
02:53	MP46387-S2	No results reported for the elements associated with this internal standard.			
02:57	MA56025-CCV17	7062	143370	17439	11300
03:02	MA56025-CCB18	7271	150370	17639	12365
03:07	MP46431-S1	No results reported for the elements associated with this internal standard.			
03:12	MP46431-S2	No results reported for the elements associated with this internal standard.			
03:17	MP46431-SD1	7259	148680	17750	12008
03:22	ZZZZZZ	6799	138710	17456	10675
03:27	ZZZZZZ	7021	143240	17697	11332
03:32	ZZZZZZ	9103	186820	22612	11562
03:37	ZZZZZZ	6968	144790	17580	11483
03:42	ZZZZZZ	7267	151540	17494	12385
03:47	ZZZZZZ	7279	151350	17786	12232
03:52	ZZZZZZ	7359	152710	17862	12324
03:57	MA56025-CCV18	7088	145430	17486	11364
04:02	MA56025-CCB19	7295	151530	17712	12410
04:07	ZZZZZZ	7382	152360	17809	12531
04:12	ZZZZZZ	7307	152030	17816	12411
04:17	ZZZZZZ	7290	150590	18185	12403
04:22	JD87833-17	7277	151370	17894	12370
04:27	ZZZZZZ	7257	151640	17886	12367
04:32	ZZZZZZ	7285	151320	17795	12375
04:37	ZZZZZZ	7284	151830	17872	12443
04:42	ZZZZZZ	7293	150910	17711	12369
04:47	ZZZZZZ	7283	151450	17892	12391
04:52	ZZZZZZ	7338	151910	17803	12474
04:57	MA56025-CCV19	7045	144420	17606	11268
05:02	MA56025-CCB20	7278	150370	17705	12343
07:22	ZZZZZZ	7215	147100	17926	11549
07:28	MP46354-SD1	7140	146610	17815	11468
07:38	MA56025-CCV20	7020	144270	17615	11231
07:43	MA56025-CCB21	7190	149850	17673	12239

R = Reference for ISTD limits. ! = Outside limits.

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56025
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

(a) No samples reported for the elements associated with this internal standard.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56025 Units: ug/l

Time:			10:17		10:29		11:36		12:36	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	17	10.4	<200	15.2	<200	10.3	<200	5.30	<200
Antimony	6.0	1.7	1.80	<6.0	0.200	<6.0	0.900	<6.0	0.00	<6.0
Arsenic	3.0	2.1	0.400	<3.0	0.00	<3.0	0.600	<3.0	0.400	<3.0
Barium	200	.8	0.00	<200	0.00	<200	0.100	<200	0.100	<200
Beryllium	1.0	.3	0.00	<1.0	0.00	<1.0	0.00	<1.0	0.00	<1.0
Bismuth	20	2.3								
Boron	100	2.3	anr							
Cadmium	3.0	.3	0.300	<3.0	0.100	<3.0	0.100	<3.0	0.100	<3.0
Calcium	5000	6.6	-0.900	<5000	-1.00	<5000	-0.800	<5000	-0.200	<5000
Cerium	100									
Chromium	10	.3	0.00	<10	-0.100	<10	0.100	<10	0.00	<10
Cobalt	50	.4	0.00	<50	0.00	<50	0.100	<50	0.00	<50
Copper	10	.8	-0.700	<10	-0.700	<10	-0.700	<10	-1.70	<10
Iron	100	5.3	-0.500	<100	-0.300	<100	-0.400	<100	-0.900	<100
Lead	3.0	1.1	0.100	<3.0	0.400	<3.0	0.100	<3.0	0.500	<3.0
Lithium	50	4.8								
Magnesium	5000	32	9.10	<5000	20.8	<5000	10.1	<5000	0.900	<5000
Manganese	15	.1	0.00	<15	0.00	<15	0.00	<15	0.00	<15
Molybdenum	20	.6	anr							
Nickel	10	.4	0.100	<10	0.100	<10	0.100	<10	-0.100	<10
Phosphorus	50	1.2								
Potassium	10000	77	34.5	<10000	28.4	<10000	30.9	<10000	34.6	<10000
Selenium	10	3.2	-1.80	<10	0.200	<10	-1.30	<10	-0.600	<10
Silicon	200	1.7	anr							
Silver	10	1	-0.500	<10	0.200	<10	0.00	<10	0.00	<10
Sodium	10000	34	-5.50	<10000	-13.9	<10000	-9.90	<10000	-18.3	<10000
Strontium	10	.3	anr							
Sulfur	50	3								
Thallium	10	1.8	0.400	<10	-0.400	<10	0.600	<10	-0.300	<10
Tin	10	.8								
Titanium	10	.5								
Tungsten	50	2.6								
Vanadium	50	.6	-0.500	<50	-0.200	<50	-0.100	<50	0.00	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56025 Units: ug/l

Time: / Sample ID:			10:17 ICB1		10:29 CCB1		11:36 CCB2		12:36 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.1	-0.500	<20	-0.400	<20	-0.500	<20	-0.400	<20
Zirconium	10	.3								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56025 Units: ug/l

Time:			13:36		14:35		15:34		16:33	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	17	12.4	<200	7.20	<200	10.1	<200	15.2	<200
Antimony	6.0	1.7	1.40	<6.0	1.40	<6.0	0.700	<6.0	0.800	<6.0
Arsenic	3.0	2.1	0.800	<3.0	1.00	<3.0	1.10	<3.0	-0.900	<3.0
Barium	200	.8	0.00	<200	0.200	<200	0.00	<200	0.00	<200
Beryllium	1.0	.3	0.00	<1.0	0.00	<1.0	0.00	<1.0	0.00	<1.0
Bismuth	20	2.3								
Boron	100	2.3	anr							
Cadmium	3.0	.3	0.100	<3.0	0.100	<3.0	0.200	<3.0	0.200	<3.0
Calcium	5000	6.6	-0.200	<5000	-1.20	<5000	-2.00	<5000	-3.50	<5000
Cerium	100									
Chromium	10	.3	0.00	<10	0.100	<10	0.100	<10	0.00	<10
Cobalt	50	.4	0.00	<50	-0.100	<50	0.100	<50	0.200	<50
Copper	10	.8	-2.60	<10	-2.40	<10	-2.90	<10	-2.80	<10
Iron	100	5.3	-0.100	<100	0.800	<100	-2.20	<100	0.700	<100
Lead	3.0	1.1	0.200	<3.0	1.00	<3.0	0.600	<3.0	-0.200	<3.0
Lithium	50	4.8								
Magnesium	5000	32	6.40	<5000	11.5	<5000	14.8	<5000	3.80	<5000
Manganese	15	.1	0.00	<15	0.00	<15	0.00	<15	0.00	<15
Molybdenum	20	.6	anr							
Nickel	10	.4	0.100	<10	0.00	<10	0.00	<10	0.00	<10
Phosphorus	50	1.2								
Potassium	10000	77	-8.10	<10000	27.5	<10000	-31.4	<10000	20.5	<10000
Selenium	10	3.2	-2.30	<10	-1.40	<10	-1.10	<10	-1.30	<10
Silicon	200	1.7	anr							
Silver	10	1	0.00	<10	0.700	<10	0.700	<10	0.900	<10
Sodium	10000	34	-29.6	<10000	-14.4	<10000	-27.6	<10000	-39.0	<10000
Strontium	10	.3	anr							
Sulfur	50	3								
Thallium	10	1.8	0.100	<10	1.00	<10	0.700	<10	0.100	<10
Tin	10	.8								
Titanium	10	.5								
Tungsten	50	2.6								
Vanadium	50	.6	0.200	<50	0.00	<50	0.400	<50	0.00	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56025 Units: ug/l

Time: / Sample ID:			13:36 CCB4		14:35 CCB5		15:34 CCB6		16:33 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.1	-0.400	<20	-0.400	<20	-0.400	<20	-0.500	<20
Zirconium	10	.3								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56025 Units: ug/l

Time:			17:32		18:34		19:34		20:23	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	17	14.4	<200	-0.300	<200	11.5	<200	9.70	<200
Antimony	6.0	1.7	0.500	<6.0	-0.500	<6.0	1.20	<6.0	-0.700	<6.0
Arsenic	3.0	2.1	0.600	<3.0	0.400	<3.0	0.100	<3.0	0.100	<3.0
Barium	200	.8	0.100	<200	0.100	<200	0.00	<200	0.00	<200
Beryllium	1.0	.3	0.00	<1.0	0.00	<1.0	0.00	<1.0	0.00	<1.0
Bismuth	20	2.3								
Boron	100	2.3	anr							
Cadmium	3.0	.3	0.100	<3.0	0.100	<3.0	0.200	<3.0	0.200	<3.0
Calcium	5000	6.6	-2.70	<5000	-3.40	<5000	-1.70	<5000	-4.10	<5000
Cerium	100									
Chromium	10	.3	0.00	<10	0.00	<10	0.100	<10	0.100	<10
Cobalt	50	.4	0.100	<50	0.00	<50	0.100	<50	0.00	<50
Copper	10	.8	-3.00	<10	-3.70	<10	-3.40	<10	-2.80	<10
Iron	100	5.3	0.00	<100	0.600	<100	-0.800	<100	0.400	<100
Lead	3.0	1.1	0.300	<3.0	0.500	<3.0	-0.800	<3.0	0.200	<3.0
Lithium	50	4.8								
Magnesium	5000	32	-3.50	<5000	-0.400	<5000	17.9	<5000	13.0	<5000
Manganese	15	.1	0.00	<15	0.00	<15	0.00	<15	0.00	<15
Molybdenum	20	.6	anr							
Nickel	10	.4	0.00	<10	0.00	<10	0.00	<10	0.100	<10
Phosphorus	50	1.2								
Potassium	10000	77	2.30	<10000	6.90	<10000	33.2	<10000	-26.3	<10000
Selenium	10	3.2	-1.60	<10	-1.00	<10	-0.800	<10	-0.600	<10
Silicon	200	1.7	anr							
Silver	10	1	0.900	<10	0.700	<10	0.600	<10	0.600	<10
Sodium	10000	34	-37.5	<10000	-35.9	<10000	-43.6	<10000	-31.9	<10000
Strontium	10	.3	anr							
Sulfur	50	3								
Thallium	10	1.8	0.00	<10	0.900	<10	-0.100	<10	0.00	<10
Tin	10	.8								
Titanium	10	.5								
Tungsten	50	2.6								
Vanadium	50	.6	-0.200	<50	0.100	<50	-0.400	<50	-0.100	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56025 Units: ug/l

Time:			17:32		18:34		19:34		20:23	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.1	-0.500	<20	-0.500	<20	-0.600	<20	-0.500	<20
Zirconium	10	.3								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56025 Units: ug/l

Time:			21:18		22:12		22:57		23:58	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	17	10.1	<200	8.30	<200	9.00	<200	7.50	<200
Antimony	6.0	1.7	0.200	<6.0	0.800	<6.0	0.100	<6.0	1.10	<6.0
Arsenic	3.0	2.1	0.800	<3.0	0.700	<3.0	0.400	<3.0	0.100	<3.0
Barium	200	.8	0.100	<200	0.100	<200	0.100	<200	0.100	<200
Beryllium	1.0	.3	0.00	<1.0	0.00	<1.0	0.00	<1.0	0.00	<1.0
Bismuth	20	2.3								
Boron	100	2.3	anr							
Cadmium	3.0	.3	0.200	<3.0	0.100	<3.0	0.100	<3.0	0.100	<3.0
Calcium	5000	6.6	-3.00	<5000	-2.60	<5000	-2.30	<5000	-1.90	<5000
Cerium	100									
Chromium	10	.3	0.100	<10	-0.100	<10	0.00	<10	0.100	<10
Cobalt	50	.4	0.00	<50	-0.100	<50	0.100	<50	0.100	<50
Copper	10	.8	-2.10	<10	-2.80	<10	-2.60	<10	-3.20	<10
Iron	100	5.3	1.30	<100	-1.00	<100	-1.20	<100	0.500	<100
Lead	3.0	1.1	0.100	<3.0	0.00	<3.0	0.300	<3.0	0.200	<3.0
Lithium	50	4.8								
Magnesium	5000	32	15.4	<5000	10.7	<5000	8.90	<5000	-0.700	<5000
Manganese	15	.1	0.00	<15	0.00	<15	0.100	<15	0.00	<15
Molybdenum	20	.6	anr							
Nickel	10	.4	0.100	<10	0.100	<10	0.100	<10	0.200	<10
Phosphorus	50	1.2								
Potassium	10000	77	13.1	<10000	12.4	<10000	-1.10	<10000	40.9	<10000
Selenium	10	3.2	-0.300	<10	-0.200	<10	-1.40	<10	0.200	<10
Silicon	200	1.7	anr							
Silver	10	1	0.900	<10	0.700	<10	1.40	<10	0.600	<10
Sodium	10000	34	-32.0	<10000	-41.2	<10000	-34.3	<10000	82.8	<10000
Strontium	10	.3	anr							
Sulfur	50	3								
Thallium	10	1.8	0.00	<10	0.900	<10	0.200	<10	0.00	<10
Tin	10	.8								
Titanium	10	.5								
Tungsten	50	2.6								
Vanadium	50	.6	0.300	<50	0.100	<50	-0.200	<50	0.100	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56025 Units: ug/l

Time:			21:18		22:12		22:57		23:58	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.1	-0.400	<20	-0.400	<20	-0.400	<20	-0.500	<20
Zirconium	10	.3								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56025 Units: ug/l

Time:			01:02		02:01		03:02		04:02	
Sample ID:			CCB16		CCB17		CCB18		CCB19	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	17	6.50	<200	8.30	<200	8.50	<200	8.80	<200
Antimony	6.0	1.7	1.40	<6.0	-0.100	<6.0	0.200	<6.0	1.20	<6.0
Arsenic	3.0	2.1	0.500	<3.0	0.200	<3.0	-0.200	<3.0	-0.100	<3.0
Barium	200	.8	0.100	<200	-0.100	<200	0.200	<200	0.100	<200
Beryllium	1.0	.3	0.00	<1.0	0.00	<1.0	0.100	<1.0	0.00	<1.0
Bismuth	20	2.3								
Boron	100	2.3	anr							
Cadmium	3.0	.3	0.200	<3.0	0.200	<3.0	0.100	<3.0	0.100	<3.0
Calcium	5000	6.6	-4.30	<5000	-1.70	<5000	-4.00	<5000	-5.70	<5000
Cerium	100									
Chromium	10	.3	0.00	<10	0.00	<10	-0.100	<10	0.00	<10
Cobalt	50	.4	0.100	<50	0.00	<50	0.00	<50	0.00	<50
Copper	10	.8	-3.00	<10	-3.50	<10	-3.40	<10	-3.90	<10
Iron	100	5.3	1.70	<100	-1.70	<100	-1.10	<100	-0.100	<100
Lead	3.0	1.1	0.400	<3.0	0.500	<3.0	0.200	<3.0	0.700	<3.0
Lithium	50	4.8								
Magnesium	5000	32	4.60	<5000	5.50	<5000	20.4	<5000	15.4	<5000
Manganese	15	.1	0.00	<15	0.00	<15	0.00	<15	0.00	<15
Molybdenum	20	.6	anr							
Nickel	10	.4	0.00	<10	0.00	<10	0.100	<10	-0.100	<10
Phosphorus	50	1.2								
Potassium	10000	77	18.4	<10000	17.0	<10000	38.8	<10000	-11.0	<10000
Selenium	10	3.2	-1.90	<10	-0.500	<10	-2.20	<10	-2.60	<10
Silicon	200	1.7	anr							
Silver	10	1	1.00	<10	0.800	<10	1.10	<10	1.30	<10
Sodium	10000	34	-2.00	<10000	60.1	<10000	94.8	<10000	14.7	<10000
Strontium	10	.3	anr							
Sulfur	50	3								
Thallium	10	1.8	0.400	<10	0.700	<10	0.600	<10	0.600	<10
Tin	10	.8								
Titanium	10	.5								
Tungsten	50	2.6								
Vanadium	50	.6	-0.400	<50	-0.100	<50	-0.100	<50	-0.100	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56025 Units: ug/l

Time:			01:02		02:01		03:02		04:02	
Sample ID:			CCB16		CCB17		CCB18		CCB19	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.1	-0.500	<20	-0.300	<20	-0.400	<20	-0.400	<20
Zirconium	10	.3								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56025 Units: ug/l

Time:			05:02	
Sample ID:			CCB20	
Metal	RL	IDL	raw	final
Aluminum	200	17	12.7	<200
Antimony	6.0	1.7	1.70	<6.0
Arsenic	3.0	2.1	0.700	<3.0
Barium	200	.8	0.200	<200
Beryllium	1.0	.3	0.00	<1.0
Bismuth	20	2.3		
Boron	100	2.3	anr	
Cadmium	3.0	.3	0.200	<3.0
Calcium	5000	6.6	-2.70	<5000
Cerium	100			
Chromium	10	.3	0.00	<10
Cobalt	50	.4	0.00	<50
Copper	10	.8	-3.70	<10
Iron	100	5.3	-1.20	<100
Lead	3.0	1.1	0.700	<3.0
Lithium	50	4.8		
Magnesium	5000	32	16.8	<5000
Manganese	15	.1	0.00	<15
Molybdenum	20	.6	anr	
Nickel	10	.4	-0.100	<10
Phosphorus	50	1.2		
Potassium	10000	77	1.00	<10000
Selenium	10	3.2	-0.900	<10
Silicon	200	1.7	anr	
Silver	10	1	0.700	<10
Sodium	10000	34	-19.3	<10000
Strontium	10	.3	anr	
Sulfur	50	3		
Thallium	10	1.8	0.300	<10
Tin	10	.8		
Titanium	10	.5		
Tungsten	50	2.6		
Vanadium	50	.6	-0.100	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56025 Units: ug/l

Time:			05:02	
Sample ID:			CCB20	
Metal	RL	IDL	raw	final
Zinc	20	.1	-0.400	<20
Zirconium	10	.3		

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA56025 Units: ug/l

Time:		10:23	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Aluminum	40000	40100	100.3
Antimony	2000	2000	100.0
Arsenic	2000	1990	99.5
Barium	2000	2020	101.0
Beryllium			
Bismuth			
Boron	anr		
Cadmium	2000	2040	102.0
Calcium	40000	40700	101.8
Cerium			
Chromium	2000	2030	101.5
Cobalt	2000	2030	101.5
Copper	2000	1990	99.5
Iron	40000	40700	101.8
Lead	2000	2010	100.5
Lithium			
Magnesium	40000	40800	102.0
Manganese	2000	2060	103.0
Molybdenum	anr		
Nickel	2000	2020	101.0
Phosphorus			
Potassium	40000	39900	99.8
Selenium	2000	2000	100.0
Silicon	anr		
Silver	250	247	98.8
Sodium	40000	40400	101.0
Strontium	anr		
Sulfur			
Thallium	2000	2070	103.5
Tin			
Titanium			
Tungsten			
Vanadium	2000	2020	101.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA56025 Units: ug/l

Time:		10:23	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Zinc	2000	2050	102.5
Zirconium			

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56025 Units: ug/l

Time:		10:12			11:32			12:32	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39400	98.5	40000	40400	101.0	40000	40300	100.8
Antimony	2000	2010	100.5	2000	2000	100.0	2000	2010	100.5
Arsenic	2000	1950	97.5	2000	1980	99.0	2000	1990	99.5
Barium	2000	1970	98.5	2000	2020	101.0	2000	2030	101.5
Beryllium	2000	2050	102.5	2000	2050	102.5	2000	2060	103.0
Bismuth									
Boron	anr								
Cadmium	2000	2030	101.5	2000	2040	102.0	2000	2050	102.5
Calcium	40000	40300	100.8	40000	41000	102.5	40000	40900	102.3
Cerium									
Chromium	2000	2010	100.5	2000	2020	101.0	2000	2030	101.5
Cobalt	2000	2050	102.5	2000	2040	102.0	2000	2050	102.5
Copper	2000	2060	103.0	2000	1990	99.5	2000	2000	100.0
Iron	40000	40800	102.0	40000	40800	102.0	40000	40800	102.0
Lead	2000	1990	99.5	2000	2010	100.5	2000	2020	101.0
Lithium									
Magnesium	40000	41200	103.0	40000	40900	102.3	40000	40900	102.3
Manganese	2000	2020	101.0	2000	2060	103.0	2000	2040	102.0
Molybdenum	anr								
Nickel	2000	1990	99.5	2000	2010	100.5	2000	2020	101.0
Phosphorus									
Potassium	40000	39300	98.3	40000	40000	100.0	40000	40000	100.0
Selenium	2000	1940	97.0	2000	2000	100.0	2000	2010	100.5
Silicon	anr								
Silver	250	255	102.0	250	246	98.4	250	248	99.2
Sodium	40000	39600	99.0	40000	40600	101.5	40000	40600	101.5
Strontium	anr								
Sulfur									
Thallium	2000	2030	101.5	2000	2040	102.0	2000	2050	102.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	1960	98.0	2000	2010	100.5	2000	2020	101.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56025 Units: ug/l

Time:		10:12			11:32			12:32	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2040	102.0	2000	2060	103.0	2000	2060	103.0
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56025 Units: ug/l

Time:		13:31			14:31			15:30	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40300	100.8	40000	40600	101.5	40000	40600	101.5
Antimony	2000	2010	100.5	2000	2010	100.5	2000	2020	101.0
Arsenic	2000	1990	99.5	2000	1970	98.5	2000	1970	98.5
Barium	2000	2020	101.0	2000	2040	102.0	2000	2030	101.5
Beryllium	2000	2070	103.5	2000	2050	102.5	2000	2050	102.5
Bismuth									
Boron	anr								
Cadmium	2000	2050	102.5	2000	2040	102.0	2000	2050	102.5
Calcium	40000	40700	101.8	40000	41200	103.0	40000	41000	102.5
Cerium									
Chromium	2000	2030	101.5	2000	2010	100.5	2000	2000	100.0
Cobalt	2000	2050	102.5	2000	2060	103.0	2000	2070	103.5
Copper	2000	2010	100.5	2000	1990	99.5	2000	1990	99.5
Iron	40000	41000	102.5	40000	40800	102.0	40000	40800	102.0
Lead	2000	2020	101.0	2000	2010	100.5	2000	2010	100.5
Lithium									
Magnesium	40000	41200	103.0	40000	41000	102.5	40000	40900	102.3
Manganese	2000	2050	102.5	2000	2070	103.5	2000	2080	104.0
Molybdenum	anr								
Nickel	2000	2030	101.5	2000	2010	100.5	2000	2010	100.5
Phosphorus									
Potassium	40000	40000	100.0	40000	39800	99.5	40000	39800	99.5
Selenium	2000	2020	101.0	2000	2010	100.5	2000	2020	101.0
Silicon	anr								
Silver	250	248	99.2	250	245	98.0	250	245	98.0
Sodium	40000	40600	101.5	40000	40700	101.8	40000	40700	101.8
Strontium	anr								
Sulfur									
Thallium	2000	2070	103.5	2000	2060	103.0	2000	2080	104.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	2010	100.5	2000	2000	100.0	2000	2000	100.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56025 Units: ug/l

Time:		13:31			14:31			15:30	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2060	103.0	2000	2060	103.0	2000	2060	103.0
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56025 Units: ug/l

Time:		16:28			17:27			18:29	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40800	102.0	40000	40800	102.0	40000	40500	101.3
Antimony	2000	2020	101.0	2000	2010	100.5	2000	2020	101.0
Arsenic	2000	1970	98.5	2000	1960	98.0	2000	1960	98.0
Barium	2000	2050	102.5	2000	2040	102.0	2000	2030	101.5
Beryllium	2000	2050	102.5	2000	2040	102.0	2000	2040	102.0
Bismuth									
Boron	anr								
Cadmium	2000	2050	102.5	2000	2040	102.0	2000	2050	102.5
Calcium	40000	41200	103.0	40000	41200	103.0	40000	40700	101.8
Cerium									
Chromium	2000	2000	100.0	2000	2000	100.0	2000	2000	100.0
Cobalt	2000	2070	103.5	2000	2070	103.5	2000	2070	103.5
Copper	2000	1990	99.5	2000	1990	99.5	2000	2000	100.0
Iron	40000	40800	102.0	40000	40700	101.8	40000	40600	101.5
Lead	2000	2020	101.0	2000	2010	100.5	2000	2010	100.5
Lithium									
Magnesium	40000	40800	102.0	40000	40800	102.0	40000	40800	102.0
Manganese	2000	2090	104.5	2000	2090	104.5	2000	2060	103.0
Molybdenum	anr								
Nickel	2000	2000	100.0	2000	2000	100.0	2000	2010	100.5
Phosphorus									
Potassium	40000	39800	99.5	40000	39800	99.5	40000	39800	99.5
Selenium	2000	2020	101.0	2000	2020	101.0	2000	2030	101.5
Silicon	anr								
Silver	250	245	98.0	250	244	97.6	250	245	98.0
Sodium	40000	40800	102.0	40000	40800	102.0	40000	40700	101.8
Strontium	anr								
Sulfur									
Thallium	2000	2090	104.5	2000	2090	104.5	2000	2110	105.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	2000	100.0	2000	2000	100.0	2000	2000	100.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56025 Units: ug/l

Time:		16:28			17:27			18:29	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2060	103.0	2000	2060	103.0	2000	2070	103.5
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56025 Units: ug/l

Time:		19:29			20:19			21:13	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40700	101.8	40000	41000	102.5	40000	41500	103.8
Antimony	2000	2030	101.5	2000	2030	101.5	2000	2030	101.5
Arsenic	2000	1970	98.5	2000	1980	99.0	2000	1980	99.0
Barium	2000	2040	102.0	2000	2060	103.0	2000	2080	104.0
Beryllium	2000	2040	102.0	2000	2030	101.5	2000	2050	102.5
Bismuth									
Boron	anr								
Cadmium	2000	2060	103.0	2000	2050	102.5	2000	2060	103.0
Calcium	40000	40900	102.3	40000	41400	103.5	40000	41700	104.3
Cerium									
Chromium	2000	2010	100.5	2000	2010	100.5	2000	2010	100.5
Cobalt	2000	2070	103.5	2000	2080	104.0	2000	2090	104.5
Copper	2000	2010	100.5	2000	2000	100.0	2000	2000	100.0
Iron	40000	40500	101.3	40000	40500	101.3	40000	40700	101.8
Lead	2000	2020	101.0	2000	2020	101.0	2000	2030	101.5
Lithium									
Magnesium	40000	40600	101.5	40000	40500	101.3	40000	40800	102.0
Manganese	2000	2070	103.5	2000	2080	104.0	2000	2130	106.5
Molybdenum	anr								
Nickel	2000	2020	101.0	2000	2010	100.5	2000	2010	100.5
Phosphorus									
Potassium	40000	39800	99.5	40000	39800	99.5	40000	39900	99.8
Selenium	2000	2030	101.5	2000	2030	101.5	2000	2030	101.5
Silicon	anr								
Silver	250	246	98.4	250	246	98.4	250	247	98.8
Sodium	40000	40700	101.8	40000	40900	102.3	40000	41300	103.3
Strontium	anr								
Sulfur									
Thallium	2000	2100	105.0	2000	2090	104.5	2000	2110	105.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	2000	100.0	2000	2010	100.5	2000	2020	101.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56025 Units: ug/l

Time:		19:29			20:19			21:13	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2070	103.5	2000	2070	103.5	2000	2080	104.0
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56025 Units: ug/l

Time:		22:07			22:52			23:53	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41100	102.8	40000	41100	102.8	40000	40200	100.5
Antimony	2000	2050	102.5	2000	2020	101.0	2000	2010	100.5
Arsenic	2000	1990	99.5	2000	1960	98.0	2000	1960	98.0
Barium	2000	2070	103.5	2000	2060	103.0	2000	2030	101.5
Beryllium	2000	2060	103.0	2000	2020	101.0	2000	2010	100.5
Bismuth									
Boron	anr								
Cadmium	2000	2070	103.5	2000	2040	102.0	2000	2020	101.0
Calcium	40000	41200	103.0	40000	41400	103.5	40000	40200	100.5
Cerium									
Chromium	2000	2020	101.0	2000	2000	100.0	2000	1980	99.0
Cobalt	2000	2090	104.5	2000	2070	103.5	2000	2050	102.5
Copper	2000	2020	101.0	2000	1980	99.0	2000	1970	98.5
Iron	40000	40700	101.8	40000	40300	100.8	40000	39700	99.3
Lead	2000	2030	101.5	2000	2010	100.5	2000	2000	100.0
Lithium									
Magnesium	40000	40900	102.3	40000	40400	101.0	40000	39900	99.8
Manganese	2000	2090	104.5	2000	2110	105.5	2000	2040	102.0
Molybdenum	anr								
Nickel	2000	2030	101.5	2000	2000	100.0	2000	2000	100.0
Phosphorus									
Potassium	40000	40000	100.0	40000	39600	99.0	40000	39400	98.5
Selenium	2000	2050	102.5	2000	2020	101.0	2000	2020	101.0
Silicon	anr								
Silver	250	247	98.8	250	244	97.6	250	243	97.2
Sodium	40000	41100	102.8	40000	40900	102.3	40000	40300	100.8
Strontium	anr								
Sulfur									
Thallium	2000	2130	106.5	2000	2110	105.5	2000	2100	105.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	2020	101.0	2000	2000	100.0	2000	1980	99.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56025 Units: ug/l

Time:		22:07			22:52			23:53	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2080	104.0	2000	2070	103.5	2000	2050	102.5
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56025 Units: ug/l

Time:		00:57			01:56			02:57	
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41100	102.8	40000	41100	102.8	40000	41000	102.5
Antimony	2000	2010	100.5	2000	2030	101.5	2000	2010	100.5
Arsenic	2000	1960	98.0	2000	1980	99.0	2000	1940	97.0
Barium	2000	2060	103.0	2000	2060	103.0	2000	2060	103.0
Beryllium	2000	2010	100.5	2000	2030	101.5	2000	1990	99.5
Bismuth									
Boron	anr								
Cadmium	2000	2030	101.5	2000	2050	102.5	2000	2030	101.5
Calcium	40000	41300	103.3	40000	41000	102.5	40000	40700	101.8
Cerium									
Chromium	2000	1990	99.5	2000	2010	100.5	2000	1980	99.0
Cobalt	2000	2070	103.5	2000	2080	104.0	2000	2070	103.5
Copper	2000	1960	98.0	2000	1990	99.5	2000	1970	98.5
Iron	40000	39700	99.3	40000	40000	100.0	40000	39000	97.5
Lead	2000	2020	101.0	2000	2020	101.0	2000	2000	100.0
Lithium									
Magnesium	40000	40000	100.0	40000	40500	101.3	40000	39500	98.8
Manganese	2000	2100	105.0	2000	2080	104.0	2000	2090	104.5
Molybdenum	anr								
Nickel	2000	2000	100.0	2000	2020	101.0	2000	1990	99.5
Phosphorus									
Potassium	40000	39500	98.8	40000	40000	100.0	40000	39600	99.0
Selenium	2000	2020	101.0	2000	2040	102.0	2000	2010	100.5
Silicon	anr								
Silver	250	242	96.8	250	245	98.0	250	243	97.2
Sodium	40000	40800	102.0	40000	41100	102.8	40000	41000	102.5
Strontium	anr								
Sulfur									
Thallium	2000	2110	105.5	2000	2110	105.5	2000	2100	105.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	1990	99.5	2000	2000	100.0	2000	1990	99.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56025 Units: ug/l

Time:		00:57			01:56			02:57	
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2070	103.5	2000	2080	104.0	2000	2050	102.5
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56025 Units: ug/l

Time:		03:57			04:57	
Sample ID:	CCV	CCV18		CCV	CCV19	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40900	102.3	40000	40700	101.8
Antimony	2000	2010	100.5	2000	2020	101.0
Arsenic	2000	1940	97.0	2000	1950	97.5
Barium	2000	2060	103.0	2000	2050	102.5
Beryllium	2000	1990	99.5	2000	1990	99.5
Bismuth						
Boron	anr					
Cadmium	2000	2030	101.5	2000	2040	102.0
Calcium	40000	40600	101.5	40000	40200	100.5
Cerium						
Chromium	2000	1970	98.5	2000	1980	99.0
Cobalt	2000	2080	104.0	2000	2070	103.5
Copper	2000	1970	98.5	2000	1980	99.0
Iron	40000	38800	97.0	40000	38600	96.5
Lead	2000	2010	100.5	2000	2010	100.5
Lithium						
Magnesium	40000	39400	98.5	40000	39200	98.0
Manganese	2000	2050	102.5	2000	2070	103.5
Molybdenum	anr					
Nickel	2000	1990	99.5	2000	2000	100.0
Phosphorus						
Potassium	40000	39800	99.5	40000	39800	99.5
Selenium	2000	2020	101.0	2000	2020	101.0
Silicon	anr					
Silver	250	241	96.4	250	243	97.2
Sodium	40000	41000	102.5	40000	40900	102.3
Strontium	anr					
Sulfur						
Thallium	2000	2090	104.5	2000	2100	105.0
Tin						
Titanium						
Tungsten						
Vanadium	2000	1980	99.0	2000	1980	99.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56025 Units: ug/l

Time:		03:57			04:57	
Sample ID:	CCV	CCV18		CCV	CCV19	
Metal	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2060	103.0	2000	2060	103.0
Zirconium						

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56025 Units: ug/l

Time:		10:55			11:01	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum				300000	304000	101.3
Antimony	8000	7830	97.9			
Arsenic	8000	7690	96.1			
Barium	8000	7850	98.1			
Beryllium	8000	8220	102.8			
Bismuth						
Boron	anr					
Cadmium	8000	7550	94.4			
Calcium				200000	195000	97.5
Cerium						
Chromium	8000	8140	101.8			
Cobalt	8000	7990	99.9			
Copper	8000	7830	97.9			
Iron				200000	192000	96.0
Lead	8000	8040	100.5			
Lithium						
Magnesium				300000	298000	99.3
Manganese	8000	8100	101.3			
Molybdenum	anr					
Nickel	8000	7890	98.6			
Phosphorus						
Potassium				200000	198000	99.0
Selenium	8000	7760	97.0			
Silicon	anr					
Silver	625	631	101.0			
Sodium				200000	201000	100.5
Strontium	anr					
Sulfur						
Thallium	8000	8020	100.3			
Tin						
Titanium						
Tungsten						
Vanadium	8000	8030	100.4			

HIGH STANDARD CHECK SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56025 Units: ug/l

Time:		10:55			11:01	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Zinc	8000	8190	102.4			
Zirconium						

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56025 Units: ug/l

Time:				10:34		10:39	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Aluminum	200	500	100	218	109.0	111	111.0
Antimony	6.0	20	3.0	6.60	110.0		
Arsenic	8.0	20	3.0	8.10	101.3	3.10	103.3
Barium	200		4.0	197	98.5	3.90	97.5
Beryllium	2.0		1.0	2.00	100.0	1.00	100.0
Bismuth	20						
Boron	100		10	anr			
Cadmium	3.0		1.0	3.20	106.7	1.20	120.0
Calcium	5000	2000	1000	5150	103.0	1040	104.0
Cerium							
Chromium	10		2.0	10.3	103.0	1.80	90.0
Cobalt	50		3.0	49.9	99.8	3.10	103.3
Copper	10		2.0	8.30	83.0		
Iron	100	500		104	104.0		
Lead	3.0	20	2.5	2.80	93.3		
Lithium	50						
Magnesium	5000	2000	100	5240	104.8		
Manganese	15		3.0	15.4	102.7	3.10	103.3
Molybdenum	20			anr			
Nickel	10		4.0	9.80	98.0	3.70	92.5
Phosphorus	50						
Potassium	5000		2000	4940	98.8	2000	100.0
Selenium	10	20	5.0	8.10	81.0		
Silicon	200			anr			
Silver	5.0		2.0	5.10	102.0		
Sodium	5000		1000	5050	101.0	986	98.6
Strontium	10			anr			
Sulfur	50						
Thallium	10		2.0	10.7	107.0		
Tin	10						
Titanium	10						
Tungsten	50						
Vanadium	50		2.0	49.6	99.2		

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56025 Units: ug/l

Time:				10:34		10:39	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Zinc	20		10	21.0	105.0	10.1	101.0
Zirconium	10						

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56025 Units: ug/l

Time:			10:44		10:49	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	509000	101.8	500000	100.0
Antimony		1000	0.500		992	99.2
Arsenic		1000	1.60		956	95.6
Barium		500	6.30		513	102.6
Beryllium		500	0.00		503	100.6
Bismuth		500	8.10		511	102.2
Boron		500	-0.400		486	97.2
Cadmium		1000	0.500		1070	107.0
Calcium	400000	400000	383000	95.8	381000	95.3
Cerium			22.1		23.6	
Chromium		500	0.00		483	96.6
Cobalt		500	1.00		497	99.4
Copper		500	-1.60		518	103.6
Iron	200000	200000	190000	95.0	189000	94.5
Lead		1000	1.40		951	95.1
Lithium		500	2.30		522	104.4
Magnesium	500000	500000	500000	100.0	497000	99.4
Manganese		500	1.30		523	104.6
Molybdenum		500	3.10		470	94.0
Nickel		1000	-2.00		938	93.8
Phosphorus		500	-19.8		429	85.8
Potassium			-62.4		-0.900	
Selenium		1000	-3.30		931	93.1
Silicon		500	10.8		569	113.8
Silver		1000	-0.400		1070	107.0
Sodium			173		237	
Strontium		500	-3.00		493	98.6
Sulfur		500	-12.6		473	94.6
Thallium		1000	-1.50		915	91.5
Tin		500	-0.400		467	93.4
Titanium		500	-1.40		475	95.0
Tungsten		500	-0.500		447	89.4
Vanadium		500	1.70		503	100.6

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050724M1.ICP Date Analyzed: 05/07/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56025 Units: ug/l

Time:			10:44		10:49	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Zinc		1000	1.30		965	96.5
Zirconium		500	1.00		468	93.6

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
Analyst: CB Run ID: MA56033
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:03	MA56033-STD1	1		b=1.2529e-004 c=-1.1768e-001 rho=0.9998039
15:04	MA56033-STD2	1		STDB
15:06	MA56033-STD3	1		STDC
15:08	MA56033-STD4	1		STDD
15:09	MA56033-STD5	1		STDE
15:11	MA56033-STD6	1		STDF
15:16	ZZZZZZ	1		
15:18	MA56033-ICV1	1		
15:19	MA56033-ICB1	1		
15:21	MA56033-CCV1	1		
15:23	MA56033-CCB1	1		
15:25	MA56033-CRI1	1		
15:28	ZZZZZZ	1		
15:29	MA56033-CCV2	1		
15:30	MA56033-CCB2	1		
15:32	ZZZZZZ	1		
15:34	ZZZZZZ	1		
15:35	ZZZZZZ	1		
15:37	ZZZZZZ	1		
15:38	ZZZZZZ	1		
15:40	ZZZZZZ	1		
15:41	ZZZZZZ	1		
15:43	ZZZZZZ	1		
15:44	ZZZZZZ	1		
15:46	ZZZZZZ	1		
15:47	MA56033-CCV3	1		
15:49	MA56033-CCB3	1		
15:53	ZZZZZZ	1		
15:54	MP46495-MB1	1		
15:56	MP46495-B1	1		
15:57	MP46495-S1	1		
15:59	MP46495-S2	1		
16:01	JD87786-19	1		(sample used for QC only; not part of login JD87833)

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
Analyst: CB Run ID: MA56033
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:03	ZZZZZZ	1		
16:04	ZZZZZZ	1		
16:06	ZZZZZZ	1		
16:08	MA56033-CCV4	1		
16:09	MA56033-CCB4	1		
16:11	ZZZZZZ	1		
16:13	ZZZZZZ	1		
16:14	ZZZZZZ	1		
16:16	ZZZZZZ	1		
16:17	ZZZZZZ	1		
16:19	ZZZZZZ	1		
16:20	ZZZZZZ	1		
16:22	ZZZZZZ	1		
16:23	MA56033-CCV5	1		
16:25	MA56033-CCB5	1		
16:27	ZZZZZZ	1		
16:28	ZZZZZZ	1		
16:30	ZZZZZZ	1		
16:32	ZZZZZZ	1		
16:33	ZZZZZZ	1		
16:35	ZZZZZZ	1		
16:36	ZZZZZZ	1		
16:38	ZZZZZZ	1		
16:39	MA56033-CCV6	1		
16:41	MA56033-CCB6	1		
16:43	MP46496-MB1	1		
16:44	MP46496-B1	1		
16:46	MP46496-S1	1		
16:48	MP46496-S2	1		
16:50	MP46496-LC1	50		
16:52	MP46496-LC2	50		
16:53	JD87808-19	1		(sample used for QC only; not part of login JD87833)
16:55	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
Analyst: CB Run ID: MA56033
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:57	MA56033-CCV7	1		
16:58	MA56033-CCB7	1		
17:00	ZZZZZZ	1		
17:02	ZZZZZZ	1		
17:04	ZZZZZZ	1		
17:05	JD87833-1	1		
17:07	JD87833-2	1		
17:08	JD87833-3	1		
17:10	JD87833-4	1		
17:12	JD87833-5	1		
17:13	MA56033-CCV8	1		
17:15	MA56033-CCB8	1		
17:17	JD87833-6	1		
17:18	JD87833-7	1		
17:20	JD87833-8	1		
17:22	JD87833-9	1		
17:23	JD87833-10	1		
17:25	JD87833-11	1		
17:27	JD87833-12	1		
17:28	JD87833-13	1		
17:30	MA56033-CCV9	1		
17:32	MA56033-CCB9	1		
17:34	ZZZZZZ	1		
17:35	ZZZZZZ	1		
17:36	ZZZZZZ	1		
17:38	ZZZZZZ	1		
17:39	ZZZZZZ	1		
17:41	ZZZZZZ	1		
17:42	ZZZZZZ	1		
17:43	ZZZZZZ	1		
17:47	JD87833-13	1		
17:48	MA56033-CCV10	1		
17:50	MA56033-CCB10	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
Analyst: CB Run ID: MA56033
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:52	JD87833-14	1		
17:53	JD87833-15	1		
17:55	MP46497-MB1	1		
17:57	MP46497-B1	1		
17:58	MP46497-S1	1		
18:00	MP46497-S2	1		
18:02	JD87833-16	1		
---------->	Last reportable sample/prep for job JD87833			
18:04	ZZZZZZ	1		
18:06	MA56033-CCV11	1		
18:08	MA56033-CCB11	1		
---------->	Last reportable CCB for job JD87833			
18:10	ZZZZZZ	1		
18:12	ZZZZZZ	1		
18:14	ZZZZZZ	1		
18:16	ZZZZZZ	1		
18:18	ZZZZZZ	1		
18:20	ZZZZZZ	1		
18:22	ZZZZZZ	1		
18:25	ZZZZZZ	1		
18:27	MA56033-CCV12	1		
18:29	MA56033-CCB12	1		
18:31	ZZZZZZ	1		
18:32	ZZZZZZ	1		
18:34	ZZZZZZ	1		
18:36	ZZZZZZ	1		
18:38	ZZZZZZ	1		
18:40	ZZZZZZ	1		
18:42	ZZZZZZ	1		
18:43	ZZZZZZ	1		
18:45	MA56033-CCV13	1		
18:47	MA56033-CCB13	1		
18:49	ZZZZZZ	1		
18:50	ZZZZZZ	1		
18:52	MP46498-MB1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
Analyst: CB Run ID: MA56033
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:53	MP46498-B1	1		
18:55	MP46498-S1	1		
18:57	MP46498-S2	1		
18:59	JD87824-2	1		(sample used for QC only; not part of login JD87833)
19:01	ZZZZZZ	1		
19:02	MA56033-CCV14	1		
19:04	MA56033-CCB14	1		
19:06	ZZZZZZ	1		
19:07	ZZZZZZ	1		
19:09	ZZZZZZ	1		
19:11	ZZZZZZ	1		
19:12	ZZZZZZ	1		
19:14	ZZZZZZ	1		
19:16	ZZZZZZ	1		
19:17	ZZZZZZ	1		
19:19	MA56033-CCV15	1		
19:21	MA56033-CCB15	1		
19:23	ZZZZZZ	1		
19:25	ZZZZZZ	1		
19:26	ZZZZZZ	1		
19:28	ZZZZZZ	1		
19:30	ZZZZZZ	1		
19:32	ZZZZZZ	1		
19:33	ZZZZZZ	1		
19:35	MA56033-CCV16	1		
19:37	MA56033-CCB16	1		
19:39	ZZZZZZ	2		
19:40	ZZZZZZ	2		
19:42	ZZZZZZ	2		
19:44	ZZZZZZ	2		
19:46	ZZZZZZ	2		
19:48	ZZZZZZ	2		
19:50	MA56033-CCV17	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
Analyst: CB Run ID: MA56033
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:52	MA56033-CCB17	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
Analyst: CB Run ID: MA56033
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
15:16	ZZZZZZ	1		
15:18	MA56033-ICV1	1	X	
15:19	MA56033-ICB1	1	X	
15:21	MA56033-CCV1	1	X	
15:23	MA56033-CCB1	1	X	
15:25	MA56033-CRI1	1	X	
15:28	ZZZZZZ	1		
15:29	MA56033-CCV2	1	X	
15:30	MA56033-CCB2	1	X	
15:32	ZZZZZZ	1		
15:34	ZZZZZZ	1		
15:35	ZZZZZZ	1		
15:37	ZZZZZZ	1		
15:38	ZZZZZZ	1		
15:40	ZZZZZZ	1		
15:41	ZZZZZZ	1		
15:43	ZZZZZZ	1		
15:44	ZZZZZZ	1		
15:46	ZZZZZZ	1		
15:47	MA56033-CCV3	1	X	
15:49	MA56033-CCB3	1	X	
15:53	ZZZZZZ	1		
15:54	MP46495-MB1	1	X	
15:56	MP46495-B1	1	X	
15:57	MP46495-S1	1	X	
15:59	MP46495-S2	1	X	
16:01	JD87786-19	1	X	(a)
16:03	ZZZZZZ	1		
16:04	ZZZZZZ	1		
16:06	ZZZZZZ	1		
16:08	MA56033-CCV4	1	X	
16:09	MA56033-CCB4	1	X	
16:11	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
Analyst: CB Run ID: MA56033
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
16:13	ZZZZZZ	1		
16:14	ZZZZZZ	1		
16:16	ZZZZZZ	1		
16:17	ZZZZZZ	1		
16:19	ZZZZZZ	1		
16:20	ZZZZZZ	1		
16:22	ZZZZZZ	1		
16:23	MA56033-CCV5	1	X	
16:25	MA56033-CCB5	1	X	
16:27	ZZZZZZ	1		
16:28	ZZZZZZ	1		
16:30	ZZZZZZ	1		
16:32	ZZZZZZ	1		
16:33	ZZZZZZ	1		
16:35	ZZZZZZ	1		
16:36	ZZZZZZ	1		
16:38	ZZZZZZ	1		
16:39	MA56033-CCV6	1	X	
16:41	MA56033-CCB6	1	X	
16:43	MP46496-MB1	1	X	
16:44	MP46496-B1	1	X	
16:46	MP46496-S1	1	X	
16:48	MP46496-S2	1	X	
16:50	MP46496-LC1	50	X	
16:52	MP46496-LC2	50	X	
16:53	JD87808-19	1	X	(a)
16:55	ZZZZZZ	1		
16:57	MA56033-CCV7	1	X	
16:58	MA56033-CCB7	1	X	
17:00	ZZZZZZ	1		
17:02	ZZZZZZ	1		
17:04	ZZZZZZ	1		
17:05	JD87833-1	1	X	
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
Analyst: CB Run ID: MA56033
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg
17:07	JD87833-2	1	X
17:08	JD87833-3	1	X
17:10	JD87833-4	1	X
17:12	JD87833-5	1	X
17:13	MA56033-CCV8	1	X
17:15	MA56033-CCB8	1	X
17:17	JD87833-6	1	X
17:18	JD87833-7	1	X
17:20	JD87833-8	1	X
17:22	JD87833-9	1	X
17:23	JD87833-10	1	X
17:25	JD87833-11	1	X
17:27	JD87833-12	1	X
17:28	JD87833-13	1	
17:30	MA56033-CCV9	1	X
17:32	MA56033-CCB9	1	X
17:34	ZZZZZZ	1	
17:35	ZZZZZZ	1	
17:36	ZZZZZZ	1	
17:38	ZZZZZZ	1	
17:39	ZZZZZZ	1	
17:41	ZZZZZZ	1	
17:42	ZZZZZZ	1	
17:43	ZZZZZZ	1	
17:47	JD87833-13	1	X
17:48	MA56033-CCV10	1	X
17:50	MA56033-CCB10	1	X
17:52	JD87833-14	1	X
17:53	JD87833-15	1	X
17:55	MP46497-MB1	1	X
17:57	MP46497-B1	1	X
17:58	MP46497-S1	1	X
18:00	MP46497-S2	1	X
		Element:	Hg

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
Analyst: CB Run ID: MA56033
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
18:02	JD87833-16	1	X	
18:04	ZZZZZZ	1		
18:06	MA56033-CCV11	1	X	
18:08	MA56033-CCB11	1	X	
18:10	ZZZZZZ	1		
18:12	ZZZZZZ	1		
18:14	ZZZZZZ	1		
18:16	ZZZZZZ	1		
18:18	ZZZZZZ	1		
18:20	ZZZZZZ	1		
18:22	ZZZZZZ	1		
18:25	ZZZZZZ	1		
18:27	MA56033-CCV12	1	X	
18:29	MA56033-CCB12	1	X	
18:31	ZZZZZZ	1		
18:32	ZZZZZZ	1		
18:34	ZZZZZZ	1		
18:36	ZZZZZZ	1		
18:38	ZZZZZZ	1		
18:40	ZZZZZZ	1		
18:42	ZZZZZZ	1		
18:43	ZZZZZZ	1		
18:45	MA56033-CCV13	1	X	
18:47	MA56033-CCB13	1	X	
18:49	ZZZZZZ	1		
18:50	ZZZZZZ	1		
18:52	MP46498-MB1	1	X	
18:53	MP46498-B1	1	X	
18:55	MP46498-S1	1	X	
18:57	MP46498-S2	1	X	
18:59	JD87824-2	1	X	(a)
19:01	ZZZZZZ	1		
19:02	MA56033-CCV14	1	X	
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
Analyst: CB Run ID: MA56033
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg
19:04	MA56033-CCB14	1	X
19:06	ZZZZZZ	1	
19:07	ZZZZZZ	1	
19:09	ZZZZZZ	1	
19:11	ZZZZZZ	1	
19:12	ZZZZZZ	1	
19:14	ZZZZZZ	1	
19:16	ZZZZZZ	1	
19:17	ZZZZZZ	1	
19:19	MA56033-CCV15	1	X
19:21	MA56033-CCB15	1	X
19:23	ZZZZZZ	1	
19:25	ZZZZZZ	1	
19:26	ZZZZZZ	1	
19:28	ZZZZZZ	1	
19:30	ZZZZZZ	1	
19:32	ZZZZZZ	1	
19:33	ZZZZZZ	1	
19:35	MA56033-CCV16	1	X
19:37	MA56033-CCB16	1	X
19:39	ZZZZZZ	2	
19:40	ZZZZZZ	2	
19:42	ZZZZZZ	2	
19:44	ZZZZZZ	2	
19:46	ZZZZZZ	2	
19:48	ZZZZZZ	2	
19:50	MA56033-CCV17	1	X
19:52	MA56033-CCB17	1	X

(a) Sample used for QC only; not part of login JD87833.

Element: Hg

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA56033 Units: ug/l

Time:			15:19		15:23		15:30		15:49	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.04	-0.0124	<0.20	-0.0216	<0.20	-0.0283	<0.20	-0.0148	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA56033 Units: ug/l

Time:			16:09		16:25		16:41		16:58	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.04	-0.0320	<0.20	-0.0131	<0.20	-0.0200	<0.20	-0.0364	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA56033 Units: ug/l

Time:			17:15		17:32		17:50		18:08	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.04	-0.0178	<0.20	-0.190	<0.20	-0.0133	<0.20	-0.0301	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA56033 Units: ug/l

Time:		15:18			15:21			15:29	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	3.23	107.7	2.5	2.60	104.0	2.5	2.61	104.4

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA56033 Units: ug/l

Time:		15:47			16:08			16:23	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.51	100.4	2.5	2.47	98.8	2.5	2.52	100.8

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA56033 Units: ug/l

Time:		16:39			16:57			17:13	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.45	98.0	2.5	2.45	98.0	2.5	2.50	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA56033 Units: ug/l

Time:		17:30			17:48			18:06	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.58	103.2	2.5	2.61	104.4	2.5	2.50	100.0

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9050924S1.CSV Date Analyzed: 05/09/24 Methods: SW846 7471B
QC Limits: 70 to 130 % Recovery Run ID: MA56033 Units: ug/l

Time:			15:25	
Sample ID:	CRI	CRIA	CRI1	
Metal	True	True	Results	% Rec
Mercury	0.20		0.148	74.0

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56037
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:43	MA56037-STD1	1		STDA
15:50	MA56037-STD2	1		STDB
15:56	MA56037-ICV1	1		
16:01	MA56037-ICB1	1		
16:08	MA56037-ICCV1	1		
16:15	MA56037-CCB1	1		
16:20	MA56037-CCV1	1		
16:25	MA56037-CRI1	1		
16:30	MA56037-CRID1	1		
16:35	MA56037-ICSA1	1		
16:40	MA56037-ICSAB1	1		
16:45	MA56037-HSTD1	1		
16:51	MA56037-HSTD2	1		
16:56	MA56037-CCV2	1		
17:01	MA56037-CCB2	1		
17:06	ZZZZZZ	1		
17:11	MP46413-S1	1		ISTD out
17:16	MP46413-S2	1		ISTD out
17:21	JD87650-5	1		(sample used for QC only; not part of login JD87833)
17:26	MP46413-SD1	5		Data not match
17:31	MP46413-PS1	1		
17:36	ZZZZZZ	1		
17:41	ZZZZZZ	1		
17:46	ZZZZZZ	1		
17:51	ZZZZZZ	1		
17:56	MA56037-CCV3	1		
18:01	MA56037-CCB3	1		
18:06	ZZZZZZ	1		
18:11	ZZZZZZ	1		
18:16	ZZZZZZ	1		
18:21	ZZZZZZ	1		
18:26	ZZZZZZ	1		
18:31	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56037
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:36	ZZZZZZ	1		
18:41	ZZZZZZ	1		
18:46	MA56037-CCV4	1		Cu out
18:51	MA56037-CCB4	1		
18:56	ZZZZZZ	1		
19:01	ZZZZZZ	1		
19:06	ZZZZZZ	1		
19:11	ZZZZZZ	1		
19:16	MP46431-S1	1		CCV out; Need PS
19:21	MP46431-S2	1		CCV out
---------->	Last reportable sample/prep for job JD87833			
19:26	ZZZZZZ	1		
19:31	ZZZZZZ	1		
19:36	ZZZZZZ	1		
19:41	ZZZZZZ	1		
19:46	MA56037-CCV5	1		Cu out
19:51	MA56037-CCB5	1		
---------->	Last reportable CCB for job JD87833			
19:56	ZZZZZZ	1		
20:01	ZZZZZZ	1		
20:06	ZZZZZZ	1		
20:11	ZZZZZZ	1		
20:16	MP46454-MB1	1		ISTD out
20:21	MP46454-LB1	1		
20:26	MP46454-B1	1		
20:31	MP46454-LS1	1		
20:35	MP46454-S1	1		
20:40	MP46454-S2	1		
20:45	MA56037-CCV6	1		Cu out
20:50	MA56037-CCB6	1		
20:55	JD87485-1	1		(sample used for QC only; not part of login JD87833)
21:00	MP46454-SD1	5		
21:05	ZZZZZZ	1		
21:10	ZZZZZZ	5		
21:15	ZZZZZZ	5		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56037
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:20	ZZZZZZ	1		
21:25	MP46425-S1	2		
21:30	MP46425-S2	2		
21:35	JD87761-2	2		(sample used for QC only; not part of login JD87833)
21:40	MP46425-SD1	10		
21:45	MA56037-CCV7	1		Cu out
21:49	MA56037-CCB7	1		Cu out
21:54	ZZZZZZ	2		
22:00	ZZZZZZ	1		
22:05	ZZZZZZ	1		
22:10	ZZZZZZ	1		
22:15	ZZZZZZ	1		
22:20	MA56037-CCV8	1		
22:25	MA56037-CCB8	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56037
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
15:56	MA56037-ICV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:01	MA56037-ICB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:08	MA56037-ICCV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:15	MA56037-CCB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:20	MA56037-CCV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:25	MA56037-CRI1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:30	MA56037-CRID1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:35	MA56037-ICSA1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:40	MA56037-ICSAB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:45	MA56037-HSTD1	1		X	X	X	X	X		X	X		X		X	X		X	X		X	X	X	
16:51	MA56037-HSTD2	1	X					X			X		X		X		X			X				
16:56	MA56037-CCV2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:01	MA56037-CCB2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:06	ZZZZZZ	1																						
17:11	MP46413-S1	1																						
17:16	MP46413-S2	1																						
17:21	JD87650-5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	(a)
17:26	MP46413-SD1	5																						
17:31	MP46413-PS1	1																						
17:36	ZZZZZZ	1																						
17:41	ZZZZZZ	1																						
17:46	ZZZZZZ	1																						
17:51	ZZZZZZ	1																						
17:56	MA56037-CCV3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:01	MA56037-CCB3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:06	ZZZZZZ	1																						
18:11	ZZZZZZ	1																						
18:16	ZZZZZZ	1																						
18:21	ZZZZZZ	1																						
18:26	ZZZZZZ	1																						
18:31	ZZZZZZ	1																						
18:36	ZZZZZZ	1																						
18:41	ZZZZZZ	1																						
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56037
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
18:46	MA56037-CCV4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:51	MA56037-CCB4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:56	ZZZZZZ	1																						
19:01	ZZZZZZ	1																						
19:06	ZZZZZZ	1																						
19:11	ZZZZZZ	1																						
19:16	MP46431-S1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:21	MP46431-S2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:26	ZZZZZZ	1																						
19:31	ZZZZZZ	1																						
19:36	ZZZZZZ	1																						
19:41	ZZZZZZ	1																						
19:46	MA56037-CCV5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:51	MA56037-CCB5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:56	ZZZZZZ	1																						
20:01	ZZZZZZ	1																						
20:06	ZZZZZZ	1																						
20:11	ZZZZZZ	1																						
20:16	MP46454-MB1	1			X	X		X		X			X					X	X					
20:21	MP46454-LB1	1																						
20:26	MP46454-B1	1			X	X		X		X			X					X	X					
20:31	MP46454-LS1	1			X	X		X		X			X					X	X					
20:35	MP46454-S1	1			X	X		X		X			X					X	X					
20:40	MP46454-S2	1			X	X		X		X			X					X	X					
20:45	MA56037-CCV6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:50	MA56037-CCB6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:55	JD87485-1	1			X	X		X		X			X					X	X					(a)
21:00	MP46454-SD1	5			X	X		X		X			X					X	X					
21:05	ZZZZZZ	1																						
21:10	ZZZZZZ	5																						
21:15	ZZZZZZ	5																						
21:20	ZZZZZZ	1																						
21:25	MP46425-S1	2								X														
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56037
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
21:30	MP46425-S2	2								X														
21:35	JD87761-2	2								X														(a)
21:40	MP46425-SD1	10								X														
21:45	MA56037-CCV7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:49	MA56037-CCB7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:54	ZZZZZZ	2																						
22:00	ZZZZZZ	1																						
22:05	ZZZZZZ	1																						
22:10	ZZZZZZ	1																						
22:15	ZZZZZZ	1																						
22:20	MA56037-CCV8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22:25	MA56037-CCB8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

(a) Sample used for QC only; not part of login JD87833.

Element: Al Sb As Ba Be Cd Ca Cr Co Fe Pb Mg Mn Ni K Se Ag Na Tl V Zn

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56037
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:43	MA56037-STD1	6630 R	124170 R	13585 R	11728 R
15:50	MA56037-STD2	6357	115640	13267	10270
15:56	MA56037-ICV1	6481	118710	13386	10658
16:01	MA56037-ICB1	6604	123590	13318	11694
16:08	MA56037-ICCV1	6490	118060	13376	10662
16:15	MA56037-CCB1	6592	122680	13351	11671
16:20	MA56037-CCV1	6465	118080	13268	10630
16:25	MA56037-CRI1	6520	121180	13257	11411
16:30	MA56037-CRID1	6562	121910	13311	11576
16:35	MA56037-ICSA1	6013	107810	13049	9547
16:40	MA56037-ICSAB1	6037	107870	13013	9580
16:45	MA56037-HSTD1	6674	120290	13297	11371
16:51	MA56037-HSTD2	6069	110060	13061	9625
16:56	MA56037-CCV2	6552	119890	13521	10754
17:01	MA56037-CCB2	6616	123430	13491	11697
17:06	ZZZZZZ	No results reported for the elements associated with this internal standard.			
17:11	MP46413-S1	38076 !a	635800 !a	61496 !a	61364 !a
17:16	MP46413-S2	38204 !a	633070 !a	61246 !a	61497 !a
17:21	JD87650-5	6689	121340	14071	10683
17:26	MP46413-SD1	6645	122100	42548 !a	11295
17:31	MP46413-PS1	6643	121280	14337	10464
17:36	ZZZZZZ	6684	126160	14110	11858
17:41	ZZZZZZ	7024	128040	14968	11254
17:46	ZZZZZZ	6953	127050	14946	11268
17:51	ZZZZZZ	7111	130250	15258	11247
17:56	MA56037-CCV3	6611	122360	14148	10853
18:01	MA56037-CCB3	6741	128650	14322	11919
18:06	ZZZZZZ	38779 !a	665490 !a	65506 !a	62362 !a
18:11	ZZZZZZ	38796 !a	663600 !a	65749 !a	62445 !a
18:16	ZZZZZZ	6908	130500	15036	11643
18:21	ZZZZZZ	38935 !a	669260 !a	67089 !a	62631 !a
18:26	ZZZZZZ	6781	130150	14981	11367
18:31	ZZZZZZ	7046	132730	15663	11292

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56037
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:36	ZZZZZZ	6339	121800	15353	9302
18:41	ZZZZZZ	7148	134300	16152	11310
18:46	MA56037-CCV4	6688	126830	14811	10987
18:51	MA56037-CCB4	6842	133260	14926	12099
18:56	ZZZZZZ	7140	135590	16093	11430
19:01	ZZZZZZ	7220	136370	16273	11475
19:06	ZZZZZZ	6893	132680	15902	10996
19:11	ZZZZZZ	7011	135070	16072	11325
19:16	MP46431-S1	6705	128610	15522	10766
19:21	MP46431-S2	6726	129130	15566	10771
19:26	ZZZZZZ	39339 !a	702580 !a	69853 !a	63357 !a
19:31	ZZZZZZ	39163 !a	702910 !a	69508 !a	63147 !a
19:36	ZZZZZZ	6752	133360	15367	11570
19:41	ZZZZZZ	6782	135040	15610	11449
19:46	MA56037-CCV5	6813	133610	15729	11205
19:51	MA56037-CCB5	6962	139580	15803	12307
19:56	ZZZZZZ	6882	137510	15807	11799
20:01	ZZZZZZ	39350 !a	715750 !a	71141 !a	63300 !a
20:06	ZZZZZZ	6893	138600	15763	11878
20:11	ZZZZZZ	No results reported for the elements associated with this internal standard.			
20:16	MP46454-MB1	39422 !a	719180 !a	71822 !a	63456 !a
20:21	MP46454-LB1	6950	142180	15978	12268
20:26	MP46454-B1	6907	138230	16238	11521
20:31	MP46454-LS1	6934	138430	16117	11534
20:35	MP46454-S1	6900	136060	16348	11247
20:40	MP46454-S2	6887	135190	16467	11223
20:45	MA56037-CCV6	6886	138200	16279	11299
20:50	MA56037-CCB6	7051	144240	16255	12432
20:55	JD87485-1	6873	141490	16503	11629
21:00	MP46454-SD1	7018	143340	16480	12191
21:05	ZZZZZZ	No results reported for the elements associated with this internal standard.			
21:10	ZZZZZZ	7138	144430	16626	11806
21:15	ZZZZZZ	7212	146520	17237	11684

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56037
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
21:20	ZZZZZZ	No results reported for the elements associated with this internal standard.			
21:25	MP46425-S1	6669	135980	16309	10920
21:30	MP46425-S2	6655	135910	16245	10890
21:35	JD87761-2	6638	136320	16235	11031
21:40	MP46425-SD1	6913	141410	16461	11843
21:45	MA56037-CCV7	6895	139200	16327	11297
21:49	MA56037-CCB7	7045	145320	16494	12399
21:54	ZZZZZZ	6398	129800	16077	10373
22:00	ZZZZZZ	No results reported for the elements associated with this internal standard.			
22:05	ZZZZZZ	No results reported for the elements associated with this internal standard.			
22:10	ZZZZZZ	No results reported for the elements associated with this internal standard.			
22:15	ZZZZZZ	No results reported for the elements associated with this internal standard.			
22:20	MA56037-CCV8	6923	140230	16500	11329
22:25	MA56037-CCB8	7079	145690	16430	12437

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

(a) No samples reported for the elements associated with this internal standard.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56037 Units: ug/l

Time: / Sample ID:			16:01 ICB1		16:15 CCB1		17:01 CCB2		18:01 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	17	3.00	<200	7.70	<200	9.10	<200	-3.80	<200
Antimony	6.0	1.7	0.900	<6.0	0.200	<6.0	-0.200	<6.0	0.700	<6.0
Arsenic	3.0	2.1	0.800	<3.0	1.10	<3.0	1.50	<3.0	0.800	<3.0
Barium	200	.8	0.300	<200	0.300	<200	0.100	<200	0.00	<200
Beryllium	1.0	.3	-0.100	<1.0	0.100	<1.0	-0.100	<1.0	-0.100	<1.0
Bismuth	20	2.3								
Boron	100	2.3								
Cadmium	3.0	.3	-0.100	<3.0	0.100	<3.0	-0.100	<3.0	0.00	<3.0
Calcium	5000	6.6	-0.200	<5000	1.80	<5000	-2.10	<5000	1.20	<5000
Cerium	100									
Chromium	10	.3	0.00	<10	0.300	<10	-0.200	<10	0.100	<10
Cobalt	50	.4	-0.300	<50	0.100	<50	0.00	<50	0.00	<50
Copper	10	.8	anr							
Iron	100	5.3	-1.10	<100	1.20	<100	-1.80	<100	0.800	<100
Lead	3.0	1.1	-0.300	<3.0	0.600	<3.0	0.300	<3.0	0.300	<3.0
Lithium	50	4.8								
Magnesium	5000	32	10.6	<5000	11.9	<5000	10.8	<5000	15.8	<5000
Manganese	15	.1	0.00	<15	0.300	<15	0.00	<15	0.100	<15
Molybdenum	20	.6								
Nickel	10	.4	0.00	<10	0.600	<10	0.400	<10	0.400	<10
Phosphorus	50	1.2								
Potassium	10000	77	-33.7	<10000	-35.6	<10000	-34.1	<10000	1.80	<10000
Selenium	10	3.2	0.100	<10	0.400	<10	0.800	<10	-1.10	<10
Silicon	200	1.7								
Silver	10	1	-0.300	<10	-0.200	<10	-0.400	<10	-0.200	<10
Sodium	10000	34	1.30	<10000	13.8	<10000	23.1	<10000	4.30	<10000
Strontium	10	.3								
Sulfur	50	3								
Thallium	10	1.8	-0.700	<10	0.800	<10	0.600	<10	0.700	<10
Tin	10	.8								
Titanium	10	.5								
Tungsten	50	2.6								
Vanadium	50	.6	0.00	<50	0.100	<50	-0.100	<50	0.200	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56037 Units: ug/l

Time:			16:01		16:15		17:01		18:01	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.1	-0.600	<20	-0.500	<20	-0.700	<20	-0.300	<20
Zirconium	10	.3								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56037 Units: ug/l

Time:			18:51		19:51	
Sample ID:			CCB4		CCB5	
Metal	RL	IDL	raw	final	raw	final
Aluminum	200	17	8.60	<200	2.70	<200
Antimony	6.0	1.7	0.200	<6.0	0.300	<6.0
Arsenic	3.0	2.1	-0.200	<3.0	-0.400	<3.0
Barium	200	.8	-0.100	<200	-0.200	<200
Beryllium	1.0	.3	0.00	<1.0	-0.100	<1.0
Bismuth	20	2.3				
Boron	100	2.3				
Cadmium	3.0	.3	-0.100	<3.0	0.00	<3.0
Calcium	5000	6.6	4.60	<5000	7.40	<5000
Cerium	100					
Chromium	10	.3	-0.100	<10	0.00	<10
Cobalt	50	.4	0.00	<50	0.00	<50
Copper	10	.8	anr			
Iron	100	5.3	0.200	<100	0.300	<100
Lead	3.0	1.1	-0.200	<3.0	0.400	<3.0
Lithium	50	4.8				
Magnesium	5000	32	-15.7	<5000	0.900	<5000
Manganese	15	.1	0.00	<15	0.100	<15
Molybdenum	20	.6				
Nickel	10	.4	-0.300	<10	0.600	<10
Phosphorus	50	1.2				
Potassium	10000	77	-12.9	<10000	19.0	<10000
Selenium	10	3.2	0.300	<10	0.300	<10
Silicon	200	1.7				
Silver	10	1	-0.500	<10	-0.700	<10
Sodium	10000	34	8.00	<10000	6.90	<10000
Strontium	10	.3				
Sulfur	50	3				
Thallium	10	1.8	0.300	<10	-0.500	<10
Tin	10	.8				
Titanium	10	.5				
Tungsten	50	2.6				
Vanadium	50	.6	0.100	<50	-0.200	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56037 Units: ug/l

			Time:		18:51	
			Sample ID:		CCB4	
Metal	RL	IDL	raw	final	raw	final
Zinc	20	.1	-0.100	<20	-0.100	<20
Zirconium	10	.3				

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA56037 Units: ug/l

Time:		16:08	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Aluminum	40000	39300	98.3
Antimony	2000	2020	101.0
Arsenic	2000	2020	101.0
Barium	2000	1980	99.0
Beryllium	2000	2040	102.0
Bismuth			
Boron			
Cadmium	2000	2050	102.5
Calcium	40000	40000	100.0
Cerium			
Chromium	2000	2030	101.5
Cobalt	2000	2030	101.5
Copper	anr		
Iron	40000	40400	101.0
Lead	2000	2020	101.0
Lithium			
Magnesium	40000	40000	100.0
Manganese	2000	2040	102.0
Molybdenum			
Nickel	2000	2030	101.5
Phosphorus			
Potassium	40000	39400	98.5
Selenium	2000	2040	102.0
Silicon			
Silver	250	241	96.4
Sodium	40000	40100	100.3
Strontium			
Sulfur			
Thallium	2000	2020	101.0
Tin			
Titanium			
Tungsten			
Vanadium	2000	2010	100.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA56037 Units: ug/l

Time:		16:08	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Zinc	2000	2060	103.0
Zirconium			

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56037 Units: ug/l

Time:		15:56			16:20			16:56	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39300	98.3	40000	39400	98.5	40000	39800	99.5
Antimony	2000	2020	101.0	2000	2010	100.5	2000	2010	100.5
Arsenic	2000	1970	98.5	2000	2020	101.0	2000	2000	100.0
Barium	2000	1960	98.0	2000	1980	99.0	2000	2000	100.0
Beryllium	2000	2030	101.5	2000	2040	102.0	2000	2020	101.0
Bismuth									
Boron									
Cadmium	2000	2030	101.5	2000	2050	102.5	2000	2040	102.0
Calcium	40000	40200	100.5	40000	40100	100.3	40000	40300	100.8
Cerium									
Chromium	2000	2000	100.0	2000	2030	101.5	2000	2020	101.0
Cobalt	2000	2050	102.5	2000	2030	101.5	2000	2020	101.0
Copper	anr								
Iron	40000	40400	101.0	40000	40400	101.0	40000	39900	99.8
Lead	2000	1990	99.5	2000	2020	101.0	2000	2020	101.0
Lithium									
Magnesium	40000	40200	100.5	40000	40000	100.0	40000	39700	99.3
Manganese	2000	2030	101.5	2000	2030	101.5	2000	2060	103.0
Molybdenum									
Nickel	2000	1990	99.5	2000	2030	101.5	2000	2020	101.0
Phosphorus									
Potassium	40000	38900	97.3	40000	39400	98.5	40000	39400	98.5
Selenium	2000	1960	98.0	2000	2030	101.5	2000	2020	101.0
Silicon									
Silver	250	249	99.6	250	239	95.6	250	242	96.8
Sodium	40000	39500	98.8	40000	40100	100.3	40000	39800	99.5
Strontium									
Sulfur									
Thallium	2000	1970	98.5	2000	2060	103.0	2000	2070	103.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	1950	97.5	2000	2000	100.0	2000	2020	101.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56037 Units: ug/l

Time:		15:56			16:20			16:56	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2040	102.0	2000	2060	103.0	2000	2060	103.0
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56037 Units: ug/l

Time:		17:56			18:46			19:46	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41300	103.3	40000	41900	104.8	40000	43000	107.5
Antimony	2000	2060	103.0	2000	2080	104.0	2000	2110	105.5
Arsenic	2000	1990	99.5	2000	1970	98.5	2000	1930	96.5
Barium	2000	2090	104.5	2000	2130	106.5	2000	2160	108.0
Beryllium	2000	2020	101.0	2000	2000	100.0	2000	1990	99.5
Bismuth									
Boron									
Cadmium	2000	2040	102.0	2000	2030	101.5	2000	2010	100.5
Calcium	40000	41000	102.5	40000	40600	101.5	40000	40100	100.3
Cerium									
Chromium	2000	2020	101.0	2000	2020	101.0	2000	2010	100.5
Cobalt	2000	2020	101.0	2000	2020	101.0	2000	2010	100.5
Copper	anr								
Iron	40000	39300	98.3	40000	38900	97.3	40000	38300	95.8
Lead	2000	2020	101.0	2000	2020	101.0	2000	2020	101.0
Lithium									
Magnesium	40000	39200	98.0	40000	39000	97.5	40000	38700	96.8
Manganese	2000	2120	106.0	2000	2100	105.0	2000	2070	103.5
Molybdenum									
Nickel	2000	2020	101.0	2000	2010	100.5	2000	1990	99.5
Phosphorus									
Potassium	40000	40200	100.5	40000	40800	102.0	40000	41600	104.0
Selenium	2000	2020	101.0	2000	2010	100.5	2000	1990	99.5
Silicon									
Silver	250	252	100.8	250	259	103.6	250	267	106.8
Sodium	40000	39500	98.8	40000	38900	97.3	40000	37900	94.8
Strontium									
Sulfur									
Thallium	2000	2000	100.0	2000	1970	98.5	2000	1930	96.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	2090	104.5	2000	2130	106.5	2000	2160	108.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56037 Units: ug/l

Time:		17:56			18:46			19:46	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2040	102.0	2000	2040	102.0	2000	2040	102.0
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56037 Units: ug/l

Time:		16:45			16:51	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum				300000	304000	101.3
Antimony	8000	7900	98.8			
Arsenic	8000	7780	97.3			
Barium	8000	7960	99.5			
Beryllium	8000	7970	99.6			
Bismuth						
Boron						
Cadmium	8000	7560	94.5			
Calcium				200000	195000	97.5
Cerium						
Chromium	8000	8120	101.5			
Cobalt	8000	7890	98.6			
Copper	anr					
Iron				200000	191000	95.5
Lead	8000	8040	100.5			
Lithium						
Magnesium				300000	299000	99.7
Manganese	8000	8150	101.9			
Molybdenum						
Nickel	8000	7920	99.0			
Phosphorus						
Potassium				200000	198000	99.0
Selenium	8000	7850	98.1			
Silicon						
Silver	625	610	97.6			
Sodium				200000	195000	97.5
Strontium						
Sulfur						
Thallium	8000	8000	100.0			
Tin						
Titanium						
Tungsten						
Vanadium	8000	8090	101.1			

HIGH STANDARD CHECK SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56037 Units: ug/l

Time:		16:45			16:51	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Zinc	8000	8180	102.3			
Zirconium						

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56037 Units: ug/l

Time:				16:25		16:30	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Aluminum	200	500	100	201	100.5	95.8	95.8
Antimony	6.0	20	3.0	5.50	91.7		
Arsenic	8.0	20	3.0	9.20	115.0	3.40	113.3
Barium	200		4.0	190	95.0	4.00	100.0
Beryllium	2.0		1.0	1.80	90.0	1.00	100.0
Bismuth	20						
Boron	100		10				
Cadmium	3.0		1.0	3.20	106.7	1.00	100.0
Calcium	5000	2000	1000	5010	100.2	1010	101.0
Cerium							
Chromium	10		2.0	10.0	100.0	2.00	100.0
Cobalt	50		3.0	49.1	98.2	2.90	96.7
Copper	10		2.0	anr			
Iron	100	500		97.3	97.3		
Lead	3.0	20	2.5	2.40	80.0		
Lithium	50						
Magnesium	5000	2000	100	5120	102.4	95.8	95.8
Manganese	15		3.0	15.4	102.7	3.20	106.7
Molybdenum	20						
Nickel	10		4.0	9.60	96.0	4.40	110.0
Phosphorus	50						
Potassium	5000		2000	4710	94.2	1860	93.0
Selenium	10	20	5.0	10.8	108.0		
Silicon	200						
Silver	5.0		2.0	4.10	82.0		
Sodium	5000		1000	4940	98.8	987	98.7
Strontium	10						
Sulfur	50						
Thallium	10		2.0	11.5	115.0	2.20	110.0
Tin	10						
Titanium	10						
Tungsten	50						
Vanadium	50		2.0	48.5	97.0		

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56037 Units: ug/l

Time:				16:25		16:30	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Zinc	20		10	21.0	105.0	10.9	109.0
Zirconium	10						

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56037 Units: ug/l

Time:			16:35		16:40	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	488000	97.6	497000	99.4
Antimony		1000	1.10		1000	100.0
Arsenic		1000	2.60		963	96.3
Barium		500	6.30		503	100.6
Beryllium		500	0.00		491	98.2
Bismuth		500	-7.20		491	98.2
Boron		500	0.500		485	97.0
Cadmium		1000	-1.00		1060	106.0
Calcium	400000	400000	374000	93.5	380000	95.0
Cerium			60.6		61.3	
Chromium		500	1.30		476	95.2
Cobalt		500	1.40		491	98.2
Copper		500	8.90		504	100.8
Iron	200000	200000	187000	93.5	187000	93.5
Lead		1000	1.70		950	95.0
Lithium		500	3.80		523	104.6
Magnesium	500000	500000	499000	99.8	496000	99.2
Manganese		500	1.60		522	104.4
Molybdenum		500	2.30		466	93.2
Nickel		1000	-4.20		937	93.7
Phosphorus		500	-19.1		439	87.8
Potassium			-402		-351	
Selenium		1000	1.00		946	94.6
Silicon		500	10.5		573	114.6
Silver		1000	-0.600		1100	110.0
Sodium			106		118	
Strontium		500	-2.80		496	99.2
Sulfur		500	-7.20		477	95.4
Thallium		1000	-2.60		895	89.5
Tin		500	-2.00		462	92.4
Titanium		500	-1.60		469	93.8
Tungsten		500	3.70		440	88.0
Vanadium		500	14.5		510	102.0

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC050824M2.ICP Date Analyzed: 05/08/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56037 Units: ug/l

Time:			16:35		16:40	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Zinc		1000	2.60		956	95.6
Zirconium		500	-0.100		468	93.6

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:36	MA56048-STD1	1		STDA
16:41	MA56048-STD2	1		STDB
16:47	MA56048-ICV1	1		
16:53	MA56048-ICB1	1		
16:59	MA56048-ICCV1	1		
17:08	MA56048-CCB1	1		
17:13	MA56048-CRI1	1		
17:18	MA56048-CRID1	1		
17:23	MA56048-ICSA1	1		
17:28	MA56048-ICSAB1	1		
17:34	MA56048-HSTD1	1		
17:40	MA56048-HSTD2	1		
17:45	ZZZZZZ	1		
17:50	MA56048-CRID2	1		
17:55	ZZZZZZ	1		
18:00	ZZZZZZ	1		
18:05	MA56048-CCV1	1		
18:11	MA56048-CCB2	1		
18:16	ZZZZZZ	1		
18:21	ZZZZZZ	1		
18:26	MP46413-S2	1		Ca high
18:32	JD87650-5	1		(sample used for QC only; not part of login JD87833)
18:37	MP46413-SD1	5		bad dilution
18:42	MP46413-PS1	1		
18:48	ZZZZZZ	1		
18:52	ZZZZZZ	1		
18:57	ZZZZZZ	1		
19:02	ZZZZZZ	1		
19:07	MA56048-CCV2	1		
19:13	MA56048-CCB3	1		
19:18	ZZZZZZ	1		
19:23	ZZZZZZ	1		
19:28	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:33	ZZZZZZ	1		
19:38	ZZZZZZ	1		
19:43	MP46425-S1	2		
19:48	MP46425-S2	2		
19:53	JD87761-2	2		(sample used for QC only; not part of login JD87833)
19:58	MP46425-SD1	10		
20:03	ZZZZZZ	1		
20:08	MA56048-CCV3	1		
20:14	MA56048-CCB4	1		
20:19	ZZZZZZ	1		
20:24	ZZZZZZ	5		
20:29	ZZZZZZ	1		
20:34	ZZZZZZ	1		
20:39	ZZZZZZ	1		
20:44	ZZZZZZ	1		
20:49	ZZZZZZ	1		
20:54	ZZZZZZ	1		
20:59	ZZZZZZ	1		
21:04	ZZZZZZ	5		
21:09	MA56048-CCV4	1		
21:14	MA56048-CCB5	1		
21:19	ZZZZZZ	1		
21:24	ZZZZZZ	1		
21:30	ZZZZZZ	1		
21:35	ZZZZZZ	1		
21:40	ZZZZZZ	1		
21:45	ZZZZZZ	2		
21:50	ZZZZZZ	1		
21:55	ZZZZZZ	1		
22:00	ZZZZZZ	1		
22:05	ZZZZZZ	1		
22:10	MA56048-CCV5	1		
22:15	MA56048-CCB6	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Dilution Factor	PS Recov	Comments
22:20	ZZZZZZ	1		
22:25	ZZZZZZ	1		
22:30	MP46460-MB1	1		
22:35	MP46460-B1	1		fe high
22:40	MP46460-S1	1		
22:46	MP46460-S2	1		
22:51	JD87754-1	1		(sample used for QC only; not part of login JD87833)
22:56	MP46460-SD1	5		
23:01	ZZZZZZ	1		
23:07	ZZZZZZ	1		
23:12	MA56048-CCV6	1		
23:17	MA56048-CCB7	1		
23:22	ZZZZZZ	1		
23:27	ZZZZZZ	1		
23:32	ZZZZZZ	1		
23:37	ZZZZZZ	1		
23:42	ZZZZZZ	1		
23:47	ZZZZZZ	1		
23:52	ZZZZZZ	1		
23:57	ZZZZZZ	2		
00:02	ZZZZZZ	1		
00:07	ZZZZZZ	1		
00:12	MA56048-CCV7	1		
00:18	MA56048-CCB8	1		
00:23	MP46461-S1	1		FE high
00:29	MP46461-S2	1		FE high
00:34	MP46461-LC1	1		
00:40	MP46461-LC2	1		
00:45	JD87766-1	1		(sample used for QC only; not part of login JD87833)
00:51	MP46461-SD1	5		FE high
00:56	MP46461-PS1	1		
01:01	ZZZZZZ	1		
01:07	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Dilution Factor	PS Recov	Comments
01:12	ZZZZZZ	1		
01:17	MA56048-CCV8	1		
01:22	MA56048-CCB9	1		
01:27	ZZZZZZ	1		
01:32	ZZZZZZ	1		
01:37	ZZZZZZ	1		
01:42	ZZZZZZ	1		
01:47	ZZZZZZ	1		
01:52	ZZZZZZ	1		
01:58	ZZZZZZ	1		
02:03	ZZZZZZ	1		
02:08	ZZZZZZ	1		
02:13	ZZZZZZ	1		
02:18	MA56048-CCV9	1		
02:24	MA56048-CCB10	1		
02:29	ZZZZZZ	1		
02:34	ZZZZZZ	1		
02:39	ZZZZZZ	1		
02:44	ZZZZZZ	1		
02:49	ZZZZZZ	1		
02:54	ZZZZZZ	1		
02:59	MP46462-MB1	1		
03:04	MP46462-B1	1		
03:09	MP46462-S1	1		FE high
03:15	MP46462-S2	1		FE high
03:20	MA56048-CCV10	1		
03:26	MA56048-CCB11	1		
03:31	JD87757-3	1		(sample used for QC only; not part of login JD87833)
03:36	MP46462-SD1	5		FE high
03:41	MP46462-PS1	1		
03:47	ZZZZZZ	1		
03:52	ZZZZZZ	1		
03:57	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Dilution Factor	PS Recov	Comments
04:02	ZZZZZZ	1		
04:07	ZZZZZZ	1		
04:12	ZZZZZZ	1		
04:17	ZZZZZZ	1		
04:22	MA56048-CCV11	1		
04:27	MA56048-CCB12	1		
04:32	ZZZZZZ	1		
04:37	ZZZZZZ	1		
04:42	ZZZZZZ	1		
04:47	ZZZZZZ	1		
04:52	ZZZZZZ	1		
04:57	ZZZZZZ	1		
05:03	MP46463-MB1	1		
05:08	MP46463-B1	1		
05:13	MP46463-S1	1		
05:18	MP46463-S2	1		FE high
05:24	MA56048-CCV12	1		
05:29	MA56048-CCB13	1		
05:34	JD87808-18	1		(sample used for QC only; not part of login JD87833)
05:39	MP46463-SD1	5		
05:44	MP46463-PS1	1		
05:49	ZZZZZZ	1		
05:54	ZZZZZZ	1		
05:59	ZZZZZZ	1		
06:04	ZZZZZZ	1		
06:09	ZZZZZZ	1		
06:14	ZZZZZZ	1		
06:19	ZZZZZZ	1		
06:23	MA56048-CCV13	1		
06:29	MA56048-CCB14	1		
06:34	ZZZZZZ	1		
06:39	ZZZZZZ	1		
06:44	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Dilution Factor	PS Recov	Comments
06:48	ZZZZZZ	1		
06:53	ZZZZZZ	1		
06:58	ZZZZZZ	1		
07:03	ZZZZZZ	1		
07:08	ZZZZZZ	1		
07:13	ZZZZZZ	1		
07:18	ZZZZZZ	1		
07:23	MA56048-CCV14	1		
07:28	MA56048-CCB15	1		
07:33	ZZZZZZ	1		
07:38	ZZZZZZ	1		
07:43	MP46431-S1	1		
07:48	MP46431-S2	1		
---------->	Last reportable sample/prep for job JD87833			
07:54	ZZZZZZ	1		
07:59	ZZZZZZ	1		
08:04	ZZZZZZ	1		
08:10	ZZZZZZ	2.5		
08:15	ZZZZZZ	1		
08:20	MA56048-CCV15	1		
08:25	MA56048-CCB16	1		
---------->	Last reportable CCB for job JD87833			
08:30	ZZZZZZ	1		
08:35	ZZZZZZ	1		
08:40	ZZZZZZ	1		
08:45	ZZZZZZ	1		
08:51	ZZZZZZ	5		
08:55	ZZZZZZ	5		
09:01	ZZZZZZ	1		
09:06	ZZZZZZ	1		
09:11	MA56048-CCV16	1		
09:27	MA56048-CCB17	1		
09:32	ZZZZZZ	10		
09:37	MP46481-S1	1		
09:42	MP46481-S2	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:47	ZZZZZZ	1		
09:52	ZZZZZZ	5		
09:57	ZZZZZZ	5		
10:02	MP46481-PS1	1		
10:07	ZZZZZZ	1		
10:12	ZZZZZZ	1		
10:17	ZZZZZZ	1		
10:22	MA56048-CCV17	1		
10:28	MA56048-CCB18	1		
10:33	ZZZZZZ	1		
11:21	JD87937-7	1		(sample used for QC only; not part of login JD87833)
11:26	MP46481-SD1	5		
11:31	MA56048-CCV18	1		
11:36	MA56048-CCV19	1		
11:43	MA56048-CCB19	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Element: Dilution	Cu
16:47	MA56048-ICV1	1	X
16:53	MA56048-ICB1	1	X
16:59	MA56048-ICCV1	1	X
17:08	MA56048-CCB1	1	X
17:13	MA56048-CRI1	1	X
17:18	MA56048-CRID1	1	
17:23	MA56048-ICSA1	1	X
17:28	MA56048-ICSAB1	1	X
17:34	MA56048-HSTD1	1	X
17:40	MA56048-HSTD2	1	X
17:45	ZZZZZZ	1	
17:50	MA56048-CRID2	1	X
17:55	ZZZZZZ	1	
18:00	ZZZZZZ	1	
18:05	MA56048-CCV1	1	X
18:11	MA56048-CCB2	1	X
18:16	ZZZZZZ	1	
18:21	ZZZZZZ	1	
18:26	MP46413-S2	1	X
18:32	JD87650-5	1	
18:37	MP46413-SD1	5	bad dilution
18:42	MP46413-PS1	1	
18:48	ZZZZZZ	1	
18:52	ZZZZZZ	1	
18:57	ZZZZZZ	1	
19:02	ZZZZZZ	1	
19:07	MA56048-CCV2	1	X
19:13	MA56048-CCB3	1	X
19:18	ZZZZZZ	1	
19:23	ZZZZZZ	1	
19:28	ZZZZZZ	1	
19:33	ZZZZZZ	1	
19:38	ZZZZZZ	1	
		Element:	Cu

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Element: Dilution	Cu	
19:43	MP46425-S1	2		
19:48	MP46425-S2	2		
19:53	JD87761-2	2		(a)
19:58	MP46425-SD1	10		
20:03	ZZZZZZ	1		
20:08	MA56048-CCV3	1	X	
20:14	MA56048-CCB4	1	X	
20:19	ZZZZZZ	1		
20:24	ZZZZZZ	5		
20:29	ZZZZZZ	1		
20:34	ZZZZZZ	1		
20:39	ZZZZZZ	1		
20:44	ZZZZZZ	1		
20:49	ZZZZZZ	1		
20:54	ZZZZZZ	1		
20:59	ZZZZZZ	1		
21:04	ZZZZZZ	5		
21:09	MA56048-CCV4	1	X	
21:14	MA56048-CCB5	1	X	
21:19	ZZZZZZ	1		
21:24	ZZZZZZ	1		
21:30	ZZZZZZ	1		
21:35	ZZZZZZ	1		
21:40	ZZZZZZ	1		
21:45	ZZZZZZ	2		
21:50	ZZZZZZ	1		
21:55	ZZZZZZ	1		
22:00	ZZZZZZ	1		
22:05	ZZZZZZ	1		
22:10	MA56048-CCV5	1	X	
22:15	MA56048-CCB6	1	X	
22:20	ZZZZZZ	1		
22:25	ZZZZZZ	1		
		Element:	Cu	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Element: Dilution	Cu	
22:30	MP46460-MB1	1	X	
22:35	MP46460-B1	1	X	
22:40	MP46460-S1	1	X	
22:46	MP46460-S2	1	X	
22:51	JD87754-1	1	X	(a)
22:56	MP46460-SD1	5	X	
23:01	ZZZZZZ	1		
23:07	ZZZZZZ	1		
23:12	MA56048-CCV6	1	X	
23:17	MA56048-CCB7	1	X	
23:22	ZZZZZZ	1		
23:27	ZZZZZZ	1		
23:32	ZZZZZZ	1		
23:37	ZZZZZZ	1		
23:42	ZZZZZZ	1		
23:47	ZZZZZZ	1		
23:52	ZZZZZZ	1		
23:57	ZZZZZZ	2		
00:02	ZZZZZZ	1		
00:07	ZZZZZZ	1		
00:12	MA56048-CCV7	1	X	
00:18	MA56048-CCB8	1	X	
00:23	MP46461-S1	1	X	
00:29	MP46461-S2	1	X	
00:34	MP46461-LC1	1		
00:40	MP46461-LC2	1	X	
00:45	JD87766-1	1		(a)
00:51	MP46461-SD1	5	X	
00:56	MP46461-PS1	1		
01:01	ZZZZZZ	1		
01:07	ZZZZZZ	1		
01:12	ZZZZZZ	1		
01:17	MA56048-CCV8	1	X	
		Element:	Cu	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Element: Dilution	Cu	
01:22	MA56048-CCB9	1	X	
01:27	ZZZZZZ	1		
01:32	ZZZZZZ	1		
01:37	ZZZZZZ	1		
01:42	ZZZZZZ	1		
01:47	ZZZZZZ	1		
01:52	ZZZZZZ	1		
01:58	ZZZZZZ	1		
02:03	ZZZZZZ	1		
02:08	ZZZZZZ	1		
02:13	ZZZZZZ	1		
02:18	MA56048-CCV9	1	X	
02:24	MA56048-CCB10	1	X	
02:29	ZZZZZZ	1		
02:34	ZZZZZZ	1		
02:39	ZZZZZZ	1		
02:44	ZZZZZZ	1		
02:49	ZZZZZZ	1		
02:54	ZZZZZZ	1		
02:59	MP46462-MB1	1	X	
03:04	MP46462-B1	1	X	
03:09	MP46462-S1	1	X	
03:15	MP46462-S2	1	X	
03:20	MA56048-CCV10	1	X	
03:26	MA56048-CCB11	1	X	
03:31	JD87757-3	1	X	(a)
03:36	MP46462-SD1	5	X	
03:41	MP46462-PS1	1		
03:47	ZZZZZZ	1		
03:52	ZZZZZZ	1		
03:57	ZZZZZZ	1		
04:02	ZZZZZZ	1		
04:07	ZZZZZZ	1		
		Element:	Cu	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Element: Dilution	Cu	
04:12	ZZZZZZ	1		
04:17	ZZZZZZ	1		
04:22	MA56048-CCV11	1	X	
04:27	MA56048-CCB12	1	X	
04:32	ZZZZZZ	1		
04:37	ZZZZZZ	1		
04:42	ZZZZZZ	1		
04:47	ZZZZZZ	1		
04:52	ZZZZZZ	1		
04:57	ZZZZZZ	1		
05:03	MP46463-MB1	1	X	
05:08	MP46463-B1	1	X	
05:13	MP46463-S1	1	X	
05:18	MP46463-S2	1	X	
05:24	MA56048-CCV12	1	X	
05:29	MA56048-CCB13	1	X	
05:34	JD87808-18	1	X	(a)
05:39	MP46463-SD1	5	X	
05:44	MP46463-PS1	1		
05:49	ZZZZZZ	1		
05:54	ZZZZZZ	1		
05:59	ZZZZZZ	1		
06:04	ZZZZZZ	1		
06:09	ZZZZZZ	1		
06:14	ZZZZZZ	1		
06:19	ZZZZZZ	1		
06:23	MA56048-CCV13	1	X	
06:29	MA56048-CCB14	1	X	
06:34	ZZZZZZ	1		
06:39	ZZZZZZ	1		
06:44	ZZZZZZ	1		
06:48	ZZZZZZ	1		
06:53	ZZZZZZ	1		
		Element:	Cu	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Element: Dilution	Cu
06:58	ZZZZZZ	1	
07:03	ZZZZZZ	1	
07:08	ZZZZZZ	1	
07:13	ZZZZZZ	1	
07:18	ZZZZZZ	1	
07:23	MA56048-CCV14	1	X
07:28	MA56048-CCB15	1	X
07:33	ZZZZZZ	1	
07:38	ZZZZZZ	1	
07:43	MP46431-S1	1	X
07:48	MP46431-S2	1	X
07:54	ZZZZZZ	1	
07:59	ZZZZZZ	1	
08:04	ZZZZZZ	1	
08:10	ZZZZZZ	2.5	
08:15	ZZZZZZ	1	
08:20	MA56048-CCV15	1	X
08:25	MA56048-CCB16	1	X
08:30	ZZZZZZ	1	
08:35	ZZZZZZ	1	
08:40	ZZZZZZ	1	
08:45	ZZZZZZ	1	
08:51	ZZZZZZ	5	
08:55	ZZZZZZ	5	
09:01	ZZZZZZ	1	
09:06	ZZZZZZ	1	
09:11	MA56048-CCV16	1	X
09:27	MA56048-CCB17	1	X
09:32	ZZZZZZ	10	
09:37	MP46481-S1	1	
09:42	MP46481-S2	1	
09:47	ZZZZZZ	1	
09:52	ZZZZZZ	5	
		Element:	Cu

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Element: Dilution	C u	
09:57	ZZZZZZ	5		
10:02	MP46481-PS1	1		
10:07	ZZZZZZ	1		
10:12	ZZZZZZ	1		
10:17	ZZZZZZ	1		
10:22	MA56048-CCV17	1	X	
10:28	MA56048-CCB18	1	X	
10:33	ZZZZZZ	1		
11:21	JD87937-7	1		(a)
11:26	MP46481-SD1	5		
11:31	MA56048-CCV18	1		
11:36	MA56048-CCV19	1	X	
11:43	MA56048-CCB19	1	X	

(a) Sample used for QC only; not part of login JD87833.

Element:	C u

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:36	MA56048-STD1	9371 R	250780 R	21267 R	19475 R
16:41	MA56048-STD2	8540	227640	20476	16296
16:47	MA56048-ICV1	8825	235820	20878	16954
16:53	MA56048-ICB1	9402	276980	21726	19490
16:59	MA56048-ICCV1	8885	236280	21046	17033
17:08	MA56048-CCB1	9409	251650	21568	19508
17:13	MA56048-CRI1	9185	243460	21164	18680
17:18	MA56048-CRID1	No results reported for the elements associated with this internal standard.			
17:23	MA56048-ICSA1	8015	208460	19967	14853
17:28	MA56048-ICSAB1	7958	209720	19649	14805
17:34	MA56048-HSTD1	8981	242870	21056	18259
17:40	MA56048-HSTD2	8071	209550	19587	14858
17:45	ZZZZZZ	9141	242280	20759	19011
17:50	MA56048-CRID2	9351	249090	20999	19222
17:55	ZZZZZZ	9464	230850	21435	16882
18:00	ZZZZZZ	8370	221850	20072	16165
18:05	MA56048-CCV1	8887	235370	20662	16990
18:11	MA56048-CCB2	9408	251160	21130	19426
18:16	ZZZZZZ	9526	256050	21662	19791
18:21	ZZZZZZ	8983	238120	21577	16306
18:26	MP46413-S2	8925	236840	21597	16200
18:32	JD87650-5	No results reported for the elements associated with this internal standard.			
18:37	MP46413-SD1	No results reported for the elements associated with this internal standard.			
18:42	MP46413-PS1	9122	250290	22435	16782
18:48	ZZZZZZ	9458	250470	21897	18648
18:52	ZZZZZZ	9709	257150	22707	18689
18:57	ZZZZZZ	9690	258090	22551	18956
19:02	ZZZZZZ	9377	253500	22458	18154
19:07	MA56048-CCV2	8925	235540	20924	17057
19:13	MA56048-CCB3	9555	253290	21548	19728
19:18	ZZZZZZ	9496	254810	22659	18467
19:23	ZZZZZZ	9816	259040	23427	18248
19:28	ZZZZZZ	9382	249520	22870	17320

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
19:33	ZZZZZZ	9590	257680	23138	17948
19:38	ZZZZZZ	9830	249960	22758	20574
19:43	MP46425-S1	8964	238820	21743	17060
19:48	MP46425-S2	8957	239460	21826	17035
19:53	JD87761-2	8996	239100	21924	17321
19:58	MP46425-SD1	9284	245170	21614	18579
20:03	ZZZZZZ	9591	255290	22014	19851
20:08	MA56048-CCV3	8963	236750	21031	17197
20:14	MA56048-CCB4	9544	252670	21555	19762
20:19	ZZZZZZ	9537	247560	22366	18126
20:24	ZZZZZZ	9555	253060	21833	18996
20:29	ZZZZZZ	9425	249610	21332	19499
20:34	ZZZZZZ	9197	243320	21314	18598
20:39	ZZZZZZ	9027	242320	21241	18220
20:44	ZZZZZZ	9159	241680	21240	18553
20:49	ZZZZZZ	9700	259400	22388	20171
20:54	ZZZZZZ	9472	249180	22953	17331
20:59	ZZZZZZ	8984	234450	21877	16119
21:04	ZZZZZZ	9294	244590	21601	17897
21:09	MA56048-CCV4	8979	235150	20939	17256
21:14	MA56048-CCB5	9553	253170	21457	19781
21:19	ZZZZZZ	9835	258130	22608	19224
21:24	ZZZZZZ	10095	262860	23795	18475
21:30	ZZZZZZ	9902	260310	23307	19014
21:35	ZZZZZZ	10192	264800	24185	18363
21:40	ZZZZZZ	9626	252500	22602	18255
21:45	ZZZZZZ	9554	250850	22173	18545
21:50	ZZZZZZ	9793	255680	22958	18278
21:55	ZZZZZZ	9606	250480	22590	18300
22:00	ZZZZZZ	9771	253820	22884	18268
22:05	ZZZZZZ	9631	250070	22595	18499
22:10	MA56048-CCV5	8964	234330	20921	17184
22:15	MA56048-CCB6	9577	250830	21634	19811

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
22:20	ZZZZZZ	9635	250300	22425	18413
22:25	ZZZZZZ	9847	257150	23055	18581
22:30	MP46460-MB1	9753	255890	22383	20200
22:35	MP46460-B1	8954	234080	21009	17393
22:40	MP46460-S1	9399	245370	22223	17257
22:46	MP46460-S2	9391	244110	22224	17212
22:51	JD87754-1	9940	257590	23258	18532
22:56	MP46460-SD1	9728	254160	21845	19235
23:01	ZZZZZZ	9547	248850	22749	17652
23:07	ZZZZZZ	9634	251420	22263	18613
23:12	MA56048-CCV6	9065	234050	20793	17262
23:17	MA56048-CCB7	9637	251240	21491	19876
23:22	ZZZZZZ	9771	252990	23084	18408
23:27	ZZZZZZ	9770	254150	23287	18278
23:32	ZZZZZZ	9056	234770	22291	16079
23:37	ZZZZZZ	9639	252600	22567	18671
23:42	ZZZZZZ	9742	254910	22919	18763
23:47	ZZZZZZ	9706	253620	22714	18799
23:52	ZZZZZZ	9761	254680	22784	19076
23:57	ZZZZZZ	9364	244030	22209	17892
00:02	ZZZZZZ	9735	256760	22489	20139
00:07	ZZZZZZ	9308	245970	21720	18132
00:12	MA56048-CCV7	8976	233340	21038	17186
00:18	MA56048-CCB8	9610	250180	21743	19834
00:23	MP46461-S1	9145	239190	22773	16222
00:29	MP46461-S2	8824	232530	22358	15121
00:34	MP46461-LC1	9895	255590	23257	18305
00:40	MP46461-LC2	9787	252840	23164	18126
00:45	JD87766-1	9149	237390	22791	16035
00:51	MP46461-SD1	9336	241470	21829	17851
00:56	MP46461-PS1	9066	235440	22908	15929
01:01	ZZZZZZ	9633	243970	23321	17847
01:07	ZZZZZZ	9836	248330	22775	18258

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
01:12	ZZZZZZ	10117	255960	23516	18407
01:17	MA56048-CCV8	9099	235000	21183	17301
01:22	MA56048-CCB9	9654	252340	21940	19913
01:27	ZZZZZZ	9999	242440	23672	18729
01:32	ZZZZZZ	9056	239270	21673	18300
01:37	ZZZZZZ	10434	244160	24273	18254
01:42	ZZZZZZ	10715	269190	24795	18662
01:47	ZZZZZZ	10532	271580	24742	18403
01:52	ZZZZZZ	9077	238270	22493	16107
01:58	ZZZZZZ	9909	256600	23558	18362
02:03	ZZZZZZ	9567	251170	23434	18238
02:08	ZZZZZZ	9851	251140	22617	18350
02:13	ZZZZZZ	10158	255760	23651	19530
02:18	MA56048-CCV9	9121	236140	21213	17298
02:24	MA56048-CCB10	9744	253200	21815	19959
02:29	ZZZZZZ	9230	269120	22522	17444
02:34	ZZZZZZ	9531	254500	22716	18339
02:39	ZZZZZZ	9604	252190	23213	17921
02:44	ZZZZZZ	9882	256560	22795	19268
02:49	ZZZZZZ	9947	260540	22726	19693
02:54	ZZZZZZ	10017	244830	23406	18962
02:59	MP46462-MB1	9932	257620	22638	20479
03:04	MP46462-B1	9320	240990	21573	18059
03:09	MP46462-S1	9158	238600	22339	16650
03:15	MP46462-S2	9647	250170	23442	17087
03:20	MA56048-CCV10	9172	233370	20909	17391
03:26	MA56048-CCB11	9781	252330	21830	20020
03:31	JD87757-3	9272	242200	22594	17717
03:36	MP46462-SD1	9596	237920	21898	18909
03:41	MP46462-PS1	9063	259780	22323	17221
03:47	ZZZZZZ	9318	239310	22052	17794
03:52	ZZZZZZ	9921	276570	23299	18375
03:57	ZZZZZZ	9802	286130	23080	18227

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
04:02	ZZZZZZ	9777	253100	23262	18045
04:07	ZZZZZZ	9972	255290	23240	18602
04:12	ZZZZZZ	10029	243390	23163	19020
04:17	ZZZZZZ	9749	252080	22874	18272
04:22	MA56048-CCV11	9185	234670	20948	17373
04:27	MA56048-CCB12	9886	251340	21553	20222
04:32	ZZZZZZ	9826	269420	22730	18408
04:37	ZZZZZZ	9804	254010	23007	18278
04:42	ZZZZZZ	10412	253990	23917	18466
04:47	ZZZZZZ	10131	240680	22899	19173
04:52	ZZZZZZ	9764	252670	23118	17720
04:57	ZZZZZZ	9446	238760	22495	16689
05:03	MP46463-MB1	10317	261550	22604	21179
05:08	MP46463-B1	9580	242450	21767	18471
05:13	MP46463-S1	9853	245830	22511	17856
05:18	MP46463-S2	9678	247410	22617	17593
05:24	MA56048-CCV12	9239	240620	20958	17224
05:29	MA56048-CCB13	9910	260340	21409	19989
05:34	JD87808-18	10277	256040	22205	19245
05:39	MP46463-SD1	9972	249620	22179	19703
05:44	MP46463-PS1	9871	246850	22847	18356
05:49	ZZZZZZ	10361	258570	23314	19500
05:54	ZZZZZZ	10816	274940	25123	18939
05:59	ZZZZZZ	10376	262920	23459	20262
06:04	ZZZZZZ	10200	253490	23063	19438
06:09	ZZZZZZ	10188	260640	23306	18966
06:14	ZZZZZZ	10091	259840	22813	19362
06:19	ZZZZZZ	10310	268530	23227	19158
06:23	MA56048-CCV13	9211	234450	21021	17554
06:29	MA56048-CCB14	9835	250780	21778	20269
06:34	ZZZZZZ	10172	254420	23110	19443
06:39	ZZZZZZ	10203	253220	22981	19496
06:44	ZZZZZZ	10171	252380	23150	19129

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
06:48	ZZZZZZ	10171	254420	22847	20074
06:53	ZZZZZZ	10147	253680	23361	19176
06:58	ZZZZZZ	10225	260600	23807	18908
07:03	ZZZZZZ	10102	259400	23173	18647
07:08	ZZZZZZ	10010	304700	22423	19435
07:13	ZZZZZZ	10112	250960	23102	18898
07:18	ZZZZZZ	10146	257960	23145	20299
07:23	MA56048-CCV14	9197	231900	21230	17593
07:28	MA56048-CCB15	9863	250330	21901	20330
07:33	ZZZZZZ	10257	252890	23459	19082
07:38	ZZZZZZ	10352	261390	23740	19596
07:43	MP46431-S1	8963	232030	21424	16658
07:48	MP46431-S2	8987	237340	21205	16578
07:54	ZZZZZZ	9115	238560	21395	16877
07:59	ZZZZZZ	9725	249080	21791	20117
08:04	ZZZZZZ	8368	207660	20258	15398
08:10	ZZZZZZ	9538	241610	21682	18703
08:15	ZZZZZZ	9843	248050	21877	20315
08:20	MA56048-CCV15	9245	232090	21204	17679
08:25	MA56048-CCB16	9883	249480	21751	20348
08:30	ZZZZZZ	9837	245620	21808	20190
08:35	ZZZZZZ	9751	248910	21501	20048
08:40	ZZZZZZ	9646	252120	21510	19601
08:45	ZZZZZZ	9802	255140	21861	19846
08:51	ZZZZZZ	9701	255860	21873	19369
08:55	ZZZZZZ	8811	224040	21486	16473
09:01	ZZZZZZ	9773	248130	23737	17597
09:06	ZZZZZZ	9737	242760	22231	20121
09:11	MA56048-CCV16	9242	232630	21356	17650
09:27	MA56048-CCB17	9797	250770	21999	20121
09:32	ZZZZZZ	9689	256100	21965	19070
09:37	MP46481-S1	9764	257790	22964	18302
09:42	MP46481-S2	9729	247920	22787	18304

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56048
Parameters: Cu

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:47	ZZZZZZ	9881	250570	23167	18618
09:52	ZZZZZZ	9874	249260	22164	19397
09:57	ZZZZZZ	9622	242870	22078	18727
10:02	MP46481-PS1	9547	244260	22906	18115
10:07	ZZZZZZ	10192	255340	23155	19436
10:12	ZZZZZZ	10011	265260	23163	19809
10:17	ZZZZZZ	9955	252520	23046	18749
10:22	MA56048-CCV17	9233	233070	21229	17518
10:28	MA56048-CCB18	9822	251080	21914	20153
10:33	ZZZZZZ	9776	255300	22141	19891
11:21	JD87937-7	10691	274480	24248	20535
11:26	MP46481-SD1	10556	267320	23192	20919
11:31	MA56048-CCV18	No results reported for the elements associated with this internal standard.			
11:36	MA56048-CCV19	9756	245970	22242	18557
11:43	MA56048-CCB19	10471	266210	23027	21432

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56048 Units: ug/l

Time:			16:53		17:08		18:11		19:13	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	27	anr							
Antimony	6.0	2.2	anr							
Arsenic	3.0	1.3	anr							
Barium	200	1	anr							
Beryllium	1.0	.2	anr							
Bismuth	20	2.1								
Boron	100	1								
Cadmium	3.0	.2	anr							
Calcium	5000	7.7	anr							
Cerium	100									
Chromium	10	.5	anr							
Cobalt	50	.4	anr							
Copper	10	6.8	-1.50	<10	-0.300	<10	0.500	<10	-0.400	<10
Iron	100	15	anr							
Lead	3.0	1.6	anr							
Lithium	50	3.7								
Magnesium	5000	54	anr							
Manganese	15	.1	anr							
Molybdenum	20	.5								
Nickel	10	.3	anr							
Phosphorus	50	1.8								
Potassium	10000	77	anr							
Selenium	10	2	anr							
Silicon	200	1.3								
Silver	10	.9	anr							
Sodium	10000	23	anr							
Strontium	10	.4								
Sulfur	50	4.1	anr							
Thallium	10	1.6	anr							
Tin	10	.9								
Titanium	10	.9								
Tungsten	50	2								
Vanadium	50	.8	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56048 Units: ug/l

Time:			16:53		17:08		18:11		19:13	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.2	anr							
Zirconium	10	.5								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56048 Units: ug/l

Time:			20:14		21:14		22:15		23:17	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	27	anr							
Antimony	6.0	2.2	anr							
Arsenic	3.0	1.3	anr							
Barium	200	1	anr							
Beryllium	1.0	.2	anr							
Bismuth	20	2.1								
Boron	100	1								
Cadmium	3.0	.2	anr							
Calcium	5000	7.7	anr							
Cerium	100									
Chromium	10	.5	anr							
Cobalt	50	.4	anr							
Copper	10	6.8	-0.500	<10	-0.400	<10	-0.500	<10	-1.50	<10
Iron	100	15	anr							
Lead	3.0	1.6	anr							
Lithium	50	3.7								
Magnesium	5000	54	anr							
Manganese	15	.1	anr							
Molybdenum	20	.5								
Nickel	10	.3	anr							
Phosphorus	50	1.8								
Potassium	10000	77	anr							
Selenium	10	2	anr							
Silicon	200	1.3								
Silver	10	.9	anr							
Sodium	10000	23	anr							
Strontium	10	.4								
Sulfur	50	4.1	anr							
Thallium	10	1.6	anr							
Tin	10	.9								
Titanium	10	.9								
Tungsten	50	2								
Vanadium	50	.8	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56048 Units: ug/l

Time:			20:14		21:14		22:15		23:17	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.2	anr							
Zirconium	10	.5								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56048 Units: ug/l

Time:			00:18		01:22		02:24		03:26	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	27	anr							
Antimony	6.0	2.2	anr							
Arsenic	3.0	1.3	anr							
Barium	200	1	anr							
Beryllium	1.0	.2	anr							
Bismuth	20	2.1								
Boron	100	1								
Cadmium	3.0	.2	anr							
Calcium	5000	7.7	anr							
Cerium	100									
Chromium	10	.5	anr							
Cobalt	50	.4	anr							
Copper	10	6.8	-1.30	<10	-1.00	<10	-1.00	<10	-1.40	<10
Iron	100	15	anr							
Lead	3.0	1.6	anr							
Lithium	50	3.7								
Magnesium	5000	54	anr							
Manganese	15	.1	anr							
Molybdenum	20	.5								
Nickel	10	.3	anr							
Phosphorus	50	1.8								
Potassium	10000	77	anr							
Selenium	10	2	anr							
Silicon	200	1.3								
Silver	10	.9	anr							
Sodium	10000	23	anr							
Strontium	10	.4								
Sulfur	50	4.1	anr							
Thallium	10	1.6	anr							
Tin	10	.9								
Titanium	10	.9								
Tungsten	50	2								
Vanadium	50	.8	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56048 Units: ug/l

Time:			00:18		01:22		02:24		03:26	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.2	anr							
Zirconium	10	.5								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56048 Units: ug/l

Time:			04:27		05:29		06:29		07:28	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	27	anr							
Antimony	6.0	2.2	anr							
Arsenic	3.0	1.3	anr							
Barium	200	1	anr							
Beryllium	1.0	.2	anr							
Bismuth	20	2.1								
Boron	100	1								
Cadmium	3.0	.2	anr							
Calcium	5000	7.7	anr							
Cerium	100									
Chromium	10	.5	anr							
Cobalt	50	.4	anr							
Copper	10	6.8	-1.80	<10	0.500	<10	-1.70	<10	-2.20	<10
Iron	100	15	anr							
Lead	3.0	1.6	anr							
Lithium	50	3.7								
Magnesium	5000	54	anr							
Manganese	15	.1	anr							
Molybdenum	20	.5								
Nickel	10	.3	anr							
Phosphorus	50	1.8								
Potassium	10000	77	anr							
Selenium	10	2	anr							
Silicon	200	1.3								
Silver	10	.9	anr							
Sodium	10000	23	anr							
Strontium	10	.4								
Sulfur	50	4.1	anr							
Thallium	10	1.6	anr							
Tin	10	.9								
Titanium	10	.9								
Tungsten	50	2								
Vanadium	50	.8	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56048 Units: ug/l

Time:			04:27		05:29		06:29		07:28	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.2	anr							
Zirconium	10	.5								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56048 Units: ug/l

Time:			08:25	
Sample ID:			CCB16	
Metal	RL	IDL	raw	final
Aluminum	200	27	anr	
Antimony	6.0	2.2	anr	
Arsenic	3.0	1.3	anr	
Barium	200	1	anr	
Beryllium	1.0	.2	anr	
Bismuth	20	2.1		
Boron	100	1		
Cadmium	3.0	.2	anr	
Calcium	5000	7.7	anr	
Cerium	100			
Chromium	10	.5	anr	
Cobalt	50	.4	anr	
Copper	10	6.8	-2.20	<10
Iron	100	15	anr	
Lead	3.0	1.6	anr	
Lithium	50	3.7		
Magnesium	5000	54	anr	
Manganese	15	.1	anr	
Molybdenum	20	.5		
Nickel	10	.3	anr	
Phosphorus	50	1.8		
Potassium	10000	77	anr	
Selenium	10	2	anr	
Silicon	200	1.3		
Silver	10	.9	anr	
Sodium	10000	23	anr	
Strontium	10	.4		
Sulfur	50	4.1	anr	
Thallium	10	1.6	anr	
Tin	10	.9		
Titanium	10	.9		
Tungsten	50	2		
Vanadium	50	.8	anr	

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56048 Units: ug/l

Time:			08:25	
Sample ID:			CCB16	
Metal	RL	IDL	raw	final
Zinc	20	.2	anr	
Zirconium	10	.5		

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA56048 Units: ug/l

Time:		16:59	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Bismuth			
Boron			
Cadmium	anr		
Calcium	anr		
Cerium			
Chromium	anr		
Cobalt	anr		
Copper	2000	2040	102.0
Iron	anr		
Lead	anr		
Lithium			
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Phosphorus			
Potassium	anr		
Selenium	anr		
Silicon			
Silver	anr		
Sodium	anr		
Strontium			
Sulfur	anr		
Thallium	anr		
Tin			
Titanium			
Tungsten			
Vanadium	anr		

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA56048 Units: ug/l

Time:		16:59	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Zinc	anr		
Zirconium			

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56048 Units: ug/l

Time:		16:47			18:05			19:07	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Cerium									
Chromium	anr								
Cobalt	anr								
Copper	2000	2140	107.0*(a	2000	2050	102.5	2000	2070	103.5
Iron	anr								
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur	anr								
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56048 Units: ug/l

Time:		16:47			18:05			19:07	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	anr								
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested
(a) Within 90 to 110 percent limits required for SW846 6010. No EPA 200.7 samples reported for this element in the area bracketed by this QC.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56048 Units: ug/l

Time:		20:08			21:09			22:10	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Cerium									
Chromium	anr								
Cobalt	anr								
Copper	2000	2080	104.0	2000	2100	105.0	2000	2110	105.5
Iron	anr								
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur	anr								
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56048 Units: ug/l

Time:		20:08			21:09			22:10	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	anr								
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56048 Units: ug/l

Time:		23:12			00:12			01:17	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Cerium									
Chromium	anr								
Cobalt	anr								
Copper	2000	2080	104.0	2000	2110	105.5	2000	2110	105.5
Iron	anr								
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur	anr								
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56048 Units: ug/l

Time:		23:12			00:12			01:17	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	anr								
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56048 Units: ug/l

Time:		02:18			03:20			04:22	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Cerium									
Chromium	anr								
Cobalt	anr								
Copper	2000	2100	105.0	2000	2100	105.0	2000	2090	104.5
Iron	anr								
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur	anr								
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56048 Units: ug/l

Time:		02:18			03:20			04:22	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	anr								
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56048 Units: ug/l

Time:		05:24			06:23			07:23	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Cerium									
Chromium	anr								
Cobalt	anr								
Copper	2000	1980	99.0	2000	2120	106.0	2000	2170	108.5
Iron	anr								
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur	anr								
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56048 Units: ug/l

Time:		05:24			06:23			07:23	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	anr								
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56048 Units: ug/l

Time:		08:20	
Sample ID:	CCV	CCV15	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Bismuth			
Boron			
Cadmium	anr		
Calcium	anr		
Cerium			
Chromium	anr		
Cobalt	anr		
Copper	2000	2160	108.0
Iron	anr		
Lead	anr		
Lithium			
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Phosphorus			
Potassium	anr		
Selenium	anr		
Silicon			
Silver	anr		
Sodium	anr		
Strontium			
Sulfur	anr		
Thallium	anr		
Tin			
Titanium			
Tungsten			
Vanadium	anr		

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56048 Units: ug/l

Time:		08:20	
Sample ID:	CCV	CCV15	
Metal	True	Results	% Rec
Zinc	anr		
Zirconium			

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56048 Units: ug/l

Time:		17:34			17:40	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Bismuth						
Boron						
Cadmium	anr					
Calcium						
Cerium						
Chromium	anr					
Cobalt	anr					
Copper	8000	8290	103.6			
Iron						
Lead	anr					
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Phosphorus						
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Sodium						
Strontium						
Sulfur	anr					
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium	anr					

HIGH STANDARD CHECK SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56048 Units: ug/l

Time:		17:34			17:40	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Zinc	anr					
Zirconium						

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56048 Units: ug/l

Time:				17:13		17:50	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID2	
Metal	True	True	True	Results	% Rec	Results	% Rec
Aluminum	200	500	100	anr			
Antimony	6.0	20	3.0	anr			
Arsenic	8.0	20	3.0	anr			
Barium	200		4.0	anr			
Beryllium	2.0		1.0	anr			
Bismuth	20						
Boron	100		10				
Cadmium	3.0		1.0	anr			
Calcium	5000	2000	1000	anr			
Cerium							
Chromium	10		2.0	anr			
Cobalt	50		3.0	anr			
Copper	10		2.0	9.50	95.0		
Iron	100	500		anr			
Lead	3.0	20	2.5	anr			
Lithium	50						
Magnesium	5000	2000	100	anr			
Manganese	15		3.0	anr			
Molybdenum	20						
Nickel	10		4.0	anr			
Phosphorus	50						
Potassium	5000		2000	anr			
Selenium	10	20	5.0	anr			
Silicon	200						
Silver	5.0		2.0	anr			
Sodium	5000		1000	anr			
Strontium	10						
Sulfur	50			anr			
Thallium	10		2.0	anr			
Tin	10						
Titanium	10						
Tungsten	50						
Vanadium	50		2.0	anr			

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56048 Units: ug/l

Time:				17:13		17:50	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID2	
Metal	True	True	True	Results	% Rec	Results	% Rec
Zinc	20		10	anr			
Zirconium	10						

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56048 Units: ug/l

Time:			17:23		17:28	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	505000	101.0	510000	102.0
Antimony		1000	1.50		1010	101.0
Arsenic		1000	-2.30		987	98.7
Barium		500	-2.20		503	100.6
Beryllium		500	0.800		504	100.8
Bismuth		500	4.40		510	102.0
Boron		500	-0.500		462	92.4
Cadmium		1000	-0.400		1070	107.0
Calcium	400000	400000	380000	95.0	388000	97.0
Cerium			12.7		11.1	
Chromium		500	-1.00		479	95.8
Cobalt		500	1.40		472	94.4
Copper		500	-4.90		527	105.4
Iron	200000	200000	191000	95.5	192000	96.0
Lead		1000	0.00		938	93.8
Lithium		500	9.20		585	117.0
Magnesium	500000	500000	500000	100.0	507000	101.4
Manganese		500	-1.00		523	104.6
Molybdenum		500	2.00		474	94.8
Nickel		1000	-4.80		937	93.7
Phosphorus		500	-6.60		470	94.0
Potassium			14.8		35.9	
Selenium		1000	-4.90		971	97.1
Silicon		500	1.80		494	98.8
Silver		1000	-0.100		1100	110.0
Sodium			14.8		4.70	
Strontium		500	0.700		531	106.2
Sulfur		500	-24.7		460	92.0
Thallium		1000	0.00		919	91.9
Tin		500	-1.30		476	95.2
Titanium		500	-0.600		490	98.0
Tungsten		500	1.10		488	97.6
Vanadium		500	-0.600		495	99.0

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56048 Units: ug/l

Time:			17:23		17:28	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Zinc		1000	-8.30		958	95.8
Zirconium		500	0.400		483	96.6

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56049
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:13	MA56049-STD1	1		STDA
17:19	MA56049-STD2	1		STDB
17:24	MA56049-ICV1	1		
17:28	MA56049-ICB1	1		
17:39	MA56049-ICCV1	1		
17:45	MA56049-CCB1	1		
17:51	MA56049-CRI1	1		
17:56	MA56049-CRID1	1		
18:01	MA56049-ICSA1	1		
18:06	MA56049-ICSAB1	1		
18:11	MA56049-HSTD1	1		
18:17	MA56049-HSTD2	1		
18:25	ZZZZZZ	1		
18:30	MA56049-CCV1	1		
18:35	MA56049-CCB2	1		
18:40	MA56049-CRI2	1		
18:45	MP46464-MB1	1		ZN RL raised 2X for the batch
18:50	MP46464-B1	1		
18:55	MP46464-S1	1		
19:00	MP46464-S2	1		
19:05	JD87833-14	1		
19:10	MP46464-SD1	5		
19:15	ZZZZZZ	1		
19:20	ZZZZZZ	1		
19:25	JD87833-1	1		
19:30	MA56049-CCV2	1		
19:35	MA56049-CCB3	1		
19:40	JD87833-2	1		
19:45	JD87833-3	1		
19:50	JD87833-4	1		
19:55	JD87833-5	1		
20:00	JD87833-6	1		
20:05	JD87833-7	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56049
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:10	JD87833-8	1		
20:15	JD87833-9	1		
20:20	JD87833-10	1		
20:25	JD87833-11	1		
20:30	MA56049-CCV3	1		
20:34	MA56049-CCB4	1		
20:39	JD87833-12	1		
20:45	JD87833-13	1		
20:50	JD87833-15	1		
20:54	JD87833-16	1		
20:59	ZZZZZZ	1		
21:05	ZZZZZZ	1		
21:10	MP46465-MB1	1		
21:15	MP46465-B1	1		
21:19	MP46465-S1	1		FE high
21:25	MP46465-S2	1		FE high
21:30	MA56049-CCV4	1		
21:34	MA56049-CCB5	1		
21:40	JD87394-1	1		(sample used for QC only; not part of login JD87833)
21:45	MP46465-SD1	5		FE high
21:50	MP46465-PS1	1		FE high
21:55	ZZZZZZ	1		
22:01	ZZZZZZ	1		
22:06	ZZZZZZ	1		
22:11	ZZZZZZ	1		
22:16	ZZZZZZ	1		
22:21	ZZZZZZ	1		
22:26	ZZZZZZ	1		
22:31	MA56049-CCV5	1		
22:36	MA56049-CCB6	1		
22:41	ZZZZZZ	1		
22:46	ZZZZZZ	1		
22:51	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56049
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
22:56	ZZZZZZ	1		
23:01	ZZZZZZ	1		
23:06	ZZZZZZ	1		
23:11	ZZZZZZ	1		
23:16	ZZZZZZ	1		
23:21	ZZZZZZ	1		
23:26	ZZZZZZ	1		
23:31	MA56049-CCV6	1		
23:36	MA56049-CCB7	1		
23:41	ZZZZZZ	1		
23:46	ZZZZZZ	1		
23:51	MP46453-MB1	1		
23:57	MP46453-B1	1		
00:01	MP46453-S1	1		Ca, Na, S high. Y saturation
00:06	MP46453-S2	1		Ca, Na, S high. Y saturation
00:12	JD87864-1	1		(sample used for QC only; not part of login JD87833)
00:17	MP46453-SD1	5		Ca, Na, S high. Y saturation
00:22	ZZZZZZ	1		
00:27	ZZZZZZ	1		
00:32	MA56049-CCV7	1		
00:37	MA56049-CCB8	1		
00:42	ZZZZZZ	1		
00:48	ZZZZZZ	1		
00:53	ZZZZZZ	1		
00:58	MP46464-PS1	1		
---------->	Last reportable sample/prep for job JD87833			
01:03	MP46387-S1	5		
01:08	MP46387-S2	5		
01:13	ZZZZZZ	5		
01:18	ZZZZZZ	5		
01:23	ZZZZZZ	5		
01:28	MA56049-CCV8	1		
01:32	MA56049-CCB9	1		
---------->	Last reportable CCB for job JD87833			
01:37	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56049
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
01:42	ZZZZZZ	1		
01:47	ZZZZZZ	1		
01:52	MA56049-CCV9	1		
01:56	MA56049-CCB10	1		
02:02	ZZZZZZ	1		
02:07	ZZZZZZ	1		
02:12	ZZZZZZ	1		
02:17	ZZZZZZ	1		
02:22	ZZZZZZ	1		
02:28	ZZZZZZ	1		
02:33	ZZZZZZ	1		
02:38	ZZZZZZ	1		
02:43	ZZZZZZ	1		
02:48	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56049
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn
17:24	MA56049-ICV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17:28	MA56049-ICB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17:39	MA56049-ICCV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17:45	MA56049-CCB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17:51	MA56049-CRI1	1																						
17:56	MA56049-CRID1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18:01	MA56049-ICSA1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18:06	MA56049-ICSAB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18:11	MA56049-HSTD1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18:17	MA56049-HSTD2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18:25	ZZZZZZ	1																						
18:30	MA56049-CCV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18:35	MA56049-CCB2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18:40	MA56049-CRI2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18:45	MP46464-MB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18:50	MP46464-B1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18:55	MP46464-S1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19:00	MP46464-S2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19:05	JD87833-14	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19:10	MP46464-SD1	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19:15	ZZZZZZ	1																						
19:20	ZZZZZZ	1																						
19:25	JD87833-1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19:30	MA56049-CCV2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19:35	MA56049-CCB3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19:40	JD87833-2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19:45	JD87833-3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19:50	JD87833-4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19:55	JD87833-5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20:00	JD87833-6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20:05	JD87833-7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20:10	JD87833-8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20:15	JD87833-9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56049
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
20:20	JD87833-10	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:25	JD87833-11	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:30	MA56049-CCV3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:34	MA56049-CCB4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:39	JD87833-12	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:45	JD87833-13	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:50	JD87833-15	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:54	JD87833-16	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:59	ZZZZZZ	1																							
21:05	ZZZZZZ	1																							
21:10	MP46465-MB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:15	MP46465-B1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:19	MP46465-S1	1	X			X	X			X				X		X	X	X			X		X		
21:25	MP46465-S2	1	X			X	X			X				X		X	X	X			X		X		
21:30	MA56049-CCV4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:34	MA56049-CCB5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:40	JD87394-1	1	X			X				X				X		X	X	X			X		X		(a)
21:45	MP46465-SD1	5	X			X	X			X				X		X	X	X			X		X		
21:50	MP46465-PS1	1								X							X								
21:55	ZZZZZZ	1																							
22:01	ZZZZZZ	1																							
22:06	ZZZZZZ	1																							
22:11	ZZZZZZ	1																							
22:16	ZZZZZZ	1																							
22:21	ZZZZZZ	1																							
22:26	ZZZZZZ	1																							
22:31	MA56049-CCV5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22:36	MA56049-CCB6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22:41	ZZZZZZ	1																							
22:46	ZZZZZZ	1																							
22:51	ZZZZZZ	1																							
22:56	ZZZZZZ	1																							
23:01	ZZZZZZ	1																							
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56049
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
23:06	ZZZZZZ	1																							
23:11	ZZZZZZ	1																							
23:16	ZZZZZZ	1																							
23:21	ZZZZZZ	1																							
23:26	ZZZZZZ	1																							
23:31	MA56049-CCV6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23:36	MA56049-CCB7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23:41	ZZZZZZ	1																							
23:46	ZZZZZZ	1																							
23:51	MP46453-MB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23:57	MP46453-B1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
00:01	MP46453-S1	1	X	X	X	X	X	X		X		X		X		X	X	X			X		X		
00:06	MP46453-S2	1	X	X	X	X	X	X		X		X		X		X	X	X			X		X		
00:12	JD87864-1	1	X	X	X	X	X	X		X		X		X		X	X	X			X		X		(a)
00:17	MP46453-SD1	5	X	X	X	X	X	X		X		X		X		X	X	X			X		X		
00:22	ZZZZZZ	1																							
00:27	ZZZZZZ	1																							
00:32	MA56049-CCV7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
00:37	MA56049-CCB8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
00:42	ZZZZZZ	1																							
00:48	ZZZZZZ	1																							
00:53	ZZZZZZ	1																							
00:58	MP46464-PS1	1		X											X										
01:03	MP46387-S1	5								X			X												
01:08	MP46387-S2	5								X			X												
01:13	ZZZZZZ	5																							
01:18	ZZZZZZ	5																							
01:23	ZZZZZZ	5																							
01:28	MA56049-CCV8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
01:32	MA56049-CCB9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
01:37	ZZZZZZ	1																							
01:42	ZZZZZZ	1																							
01:47	ZZZZZZ	1																							
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56049
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn
01:52	MA56049-CCV9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
01:56	MA56049-CCB10	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
02:02	ZZZZZZ	1																						
02:07	ZZZZZZ	1																						
02:12	ZZZZZZ	1																						
02:17	ZZZZZZ	1																						
02:22	ZZZZZZ	1																						
02:28	ZZZZZZ	1																						
02:33	ZZZZZZ	1																						
02:38	ZZZZZZ	1																						
02:43	ZZZZZZ	1																						
02:48	ZZZZZZ	1																						

(a) Sample used for QC only; not part of login JD87833.

Element: Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni K Se Ag Na Tl V Zn

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56049
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
17:13	MA56049-STD1	2531 R	94545 R	15090 R	7286 R
17:19	MA56049-STD2	2382	91590	14599	6260
17:24	MA56049-ICV1	2453	92577	14843	6564
17:28	MA56049-ICB1	2529	94237	15080	7278
17:39	MA56049-ICCV1	2469	93072	14859	6585
17:45	MA56049-CCB1	2532	94426	15105	7287
17:51	MA56049-CRI1	No results reported for the elements associated with this internal standard.			
17:56	MA56049-CRID1	2531	94491	15134	7262
18:01	MA56049-ICSA1	2244	87437	14490	5735
18:06	MA56049-ICSAB1	2273	87624	14505	5775
18:11	MA56049-HSTD1	2497	94165	15143	7022
18:17	MA56049-HSTD2	2280	88150	14441	5800
18:25	ZZZZZZ	2509	94269	14976	7135
18:30	MA56049-CCV1	2463	92255	14810	6575
18:35	MA56049-CCB2	2530	93921	15055	7286
18:40	MA56049-CRI2	2513	93698	15029	7140
18:45	MP46464-MB1	2563	95271	15357	7403
18:50	MP46464-B1	2496	93064	14969	6813
18:55	MP46464-S1	2569	95893	15751	6654
19:00	MP46464-S2	2553	95815	15779	6612
19:05	JD87833-14	2645	97746	15961	6997
19:10	MP46464-SD1	2568	94277	15274	7183
19:15	ZZZZZZ	2604	98548	16072	6733
19:20	ZZZZZZ	2645	99529	16196	6847
19:25	JD87833-1	2614	97330	15792	7009
19:30	MA56049-CCV2	2455	91320	14654	6578
19:35	MA56049-CCB3	2535	93965	14969	7311
19:40	JD87833-2	2636	97244	15801	7100
19:45	JD87833-3	2665	98124	15899	7106
19:50	JD87833-4	2636	97176	15816	7057
19:55	JD87833-5	2652	97956	15832	7056
20:00	JD87833-6	2635	97591	15853	7025
20:05	JD87833-7	2644	97315	15792	7028

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56049
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
20:10	JD87833-8	2646	97747	15849	7069
20:15	JD87833-9	2660	98042	15916	7021
20:20	JD87833-10	2708	98876	16009	7014
20:25	JD87833-11	2652	98087	15899	7032
20:30	MA56049-CCV3	2471	92081	14585	6606
20:34	MA56049-CCB4	2553	93836	14914	7346
20:39	JD87833-12	2748	99694	16186	7022
20:45	JD87833-13	2664	96268	15672	6926
20:50	JD87833-15	2651	97010	15597	7117
20:54	JD87833-16	2658	97837	15677	7041
20:59	ZZZZZZ	2468	93233	15471	6157
21:05	ZZZZZZ	2568	96903	15763	6562
21:10	MP46465-MB1	2562	94703	15091	7407
21:15	MP46465-B1	2498	93230	14840	6812
21:19	MP46465-S1	2162	87246	13954	6583
21:25	MP46465-S2	2162	87066	13909	6626
21:30	MA56049-CCV4	2494	92391	14498	6642
21:34	MA56049-CCB5	2555	94894	14804	7347
21:40	JD87394-1	2171	87695	14055	6687
21:45	MP46465-SD1	2418	92486	14646	6904
21:50	MP46465-PS1	2165	87397	14072	6595
21:55	ZZZZZZ	2488	95118	15381	6060
22:01	ZZZZZZ	2482	93969	15319	6233
22:06	ZZZZZZ	2536	94872	15372	6695
22:11	ZZZZZZ	2534	96939	15563	6218
22:16	ZZZZZZ	2700	99145	16006	6895
22:21	ZZZZZZ	2637	96704	15209	7296
22:26	ZZZZZZ	2686	99794	15878	6898
22:31	MA56049-CCV5	2482	92221	14416	6599
22:36	MA56049-CCB6	2565	94368	14758	7350
22:41	ZZZZZZ	2623	96156	15223	7230
22:46	ZZZZZZ	2694	99504	15748	6820
22:51	ZZZZZZ	2638	98421	15551	7012

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56049
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
22:56	ZZZZZZ	2697	100490	15860	6868
23:01	ZZZZZZ	2669	97862	15406	7313
23:06	ZZZZZZ	2634	97183	15247	7167
23:11	ZZZZZZ	2576	94633	15027	7045
23:16	ZZZZZZ	2688	99117	15794	6996
23:21	ZZZZZZ	2414	91487	14679	6009
23:26	ZZZZZZ	2731	100510	15872	6849
23:31	MA56049-CCV6	2497	92335	14340	6621
23:36	MA56049-CCB7	2578	94030	14742	7356
23:41	ZZZZZZ	2608	96559	15411	7104
23:46	ZZZZZZ	2685	99701	16004	6812
23:51	MP46453-MB1	2647	96961	15251	7630
23:57	MP46453-B1	2654	95579	15114	7168
00:01	MP46453-S1	2202	80899	14369	5494
00:06	MP46453-S2	2233	999999 !a	14226	5555
00:12	JD87864-1	2222	999999 !a	14085	5583
00:17	MP46453-SD1	2361	91060	14237	6244
00:22	ZZZZZZ	2497	93789	14877	6902
00:27	ZZZZZZ	2516	999999 !a	15239	6956
00:32	MA56049-CCV7	2486	91080	14325	6605
00:37	MA56049-CCB8	2561	93634	14558	7331
00:42	ZZZZZZ	2310	91211	14208	5972
00:48	ZZZZZZ	2272	999999 !a	14193	5651
00:53	ZZZZZZ	2416	91319	14852	6363
00:58	MP46464-PS1	2586	95993	15230	6712
01:03	MP46387-S1	2553	93342	14837	6855
01:08	MP46387-S2	2553	93946	14664	6867
01:13	ZZZZZZ	2563	94077	14756	7010
01:18	ZZZZZZ	2566	93871	14859	6964
01:23	ZZZZZZ	2485	92544	14423	6798
01:28	MA56049-CCV8	2488	91694	14308	6601
01:32	MA56049-CCB9	2564	94056	14672	7316
01:37	ZZZZZZ	2479	91866	14352	6512

INTERNAL STANDARD SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56049
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
01:42	ZZZZZZ	2482	91841	14338	6481
01:47	ZZZZZZ	2456	91107	14391	6386
01:52	MA56049-CCV9	2496	92475	14306	6607
01:56	MA56049-CCB10	2572	93976	14569	7324
02:02	ZZZZZZ	2516	93058	14450	7224
02:07	ZZZZZZ	2664	91586	14922	6556
02:12	ZZZZZZ	2348	91622	13995	6303
02:17	ZZZZZZ	2571	94170	14515	7303
02:22	ZZZZZZ	2584	94464	14518	7328
02:28	ZZZZZZ	2580	94571	14584	7304
02:33	ZZZZZZ	2547	94352	14492	7258
02:38	ZZZZZZ	2578	94622	14509	7348
02:43	ZZZZZZ	2569	94173	14436	7338
02:48	ZZZZZZ	2569	94688	14505	7301

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

(a) No samples reported for the elements associated with this internal standard.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56049 Units: ug/l

Time:			17:28		17:45		18:35		19:35	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	9.2	-4.90	<200	-7.40	<200	5.50	<200	-6.10	<200
Antimony	6.0	2.8	-0.500	<6.0	0.100	<6.0	-0.700	<6.0	-0.600	<6.0
Arsenic	3.0	2.6	0.500	<3.0	0.200	<3.0	0.400	<3.0	0.400	<3.0
Barium	200	.2	0.200	<200	0.00	<200	0.100	<200	0.300	<200
Beryllium	1.0	.2	0.00	<1.0	0.00	<1.0	0.00	<1.0	0.00	<1.0
Bismuth	20	2.5								
Boron	100	1.8								
Cadmium	3.0	.4	-0.100	<3.0	-0.100	<3.0	-0.100	<3.0	0.00	<3.0
Calcium	5000	13	-7.10	<5000	-5.60	<5000	-6.60	<5000	-6.70	<5000
Cerium	100									
Chromium	10	.7	0.00	<10	0.200	<10	0.200	<10	0.200	<10
Cobalt	50	.6	0.200	<50	0.00	<50	0.200	<50	0.00	<50
Copper	10	.7	-2.40	<10	-2.40	<10	-1.20	<10	-1.10	<10
Iron	100	3.3	-0.500	<100	0.100	<100	-0.600	<100	-1.10	<100
Lead	3.0	2	0.400	<3.0	-0.400	<3.0	-0.100	<3.0	0.00	<3.0
Lithium	50	1.5								
Magnesium	5000	25	0.600	<5000	7.90	<5000	12.3	<5000	-9.10	<5000
Manganese	15	.1	0.00	<15	-0.100	<15	0.00	<15	0.00	<15
Molybdenum	20	.6	anr							
Nickel	10	.8	0.200	<10	-0.200	<10	-0.200	<10	-0.400	<10
Phosphorus	50	7								
Potassium	10000	35	17.3	<10000	6.80	<10000	22.9	<10000	25.2	<10000
Selenium	10	3.6	-1.60	<10	1.50	<10	1.20	<10	-0.700	<10
Silicon	200	2.2								
Silver	10	.6	-0.400	<10	-0.300	<10	-0.500	<10	-0.200	<10
Sodium	10000	14	6.40	<10000	4.00	<10000	24.8	<10000	-2.00	<10000
Strontium	10	.1								
Sulfur	50	3.7								
Thallium	10	5.2	1.80	<10	1.80	<10	1.50	<10	1.40	<10
Tin	10	1.4	anr							
Titanium	10	.8								
Tungsten	50	1.3								
Vanadium	50	.5	-0.100	<50	-1.00	<50	-0.200	<50	-0.800	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56049 Units: ug/l

Time: / Sample ID:			17:28 ICB1		17:45 CCB1		18:35 CCB2		19:35 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.3	-1.10	<20	-0.900	<20	-1.00	<20	-1.10	<20
Zirconium	10	.5								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56049 Units: ug/l

Time: / Sample ID:			20:34 CCB4		21:34 CCB5		22:36 CCB6		23:36 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	9.2	-3.70	<200	-10.3	<200	-5.10	<200	-0.600	<200
Antimony	6.0	2.8	0.300	<6.0	-0.100	<6.0	-0.700	<6.0	0.00	<6.0
Arsenic	3.0	2.6	-2.30	<3.0	-0.900	<3.0	-0.200	<3.0	0.100	<3.0
Barium	200	.2	0.200	<200	0.300	<200	0.300	<200	0.400	<200
Beryllium	1.0	.2	0.00	<1.0	0.100	<1.0	0.100	<1.0	0.00	<1.0
Bismuth	20	2.5								
Boron	100	1.8								
Cadmium	3.0	.4	0.00	<3.0	0.00	<3.0	0.00	<3.0	-0.100	<3.0
Calcium	5000	13	-5.00	<5000	-6.30	<5000	-7.20	<5000	-8.10	<5000
Cerium	100									
Chromium	10	.7	-0.100	<10	0.200	<10	0.00	<10	0.100	<10
Cobalt	50	.6	0.300	<50	0.100	<50	0.00	<50	0.200	<50
Copper	10	.7	0.100	<10	-1.00	<10	-0.300	<10	1.10	<10
Iron	100	3.3	-0.900	<100	-1.90	<100	1.00	<100	-0.500	<100
Lead	3.0	2	-0.900	<3.0	0.300	<3.0	1.00	<3.0	0.200	<3.0
Lithium	50	1.5								
Magnesium	5000	25	3.90	<5000	8.60	<5000	4.40	<5000	7.70	<5000
Manganese	15	.1	0.00	<15	0.00	<15	0.00	<15	0.00	<15
Molybdenum	20	.6	anr							
Nickel	10	.8	-0.300	<10	0.00	<10	-0.100	<10	0.00	<10
Phosphorus	50	7								
Potassium	10000	35	7.60	<10000	23.3	<10000	-3.40	<10000	17.6	<10000
Selenium	10	3.6	-0.200	<10	-2.20	<10	-0.600	<10	-1.70	<10
Silicon	200	2.2								
Silver	10	.6	-0.300	<10	-0.400	<10	-1.00	<10	-0.900	<10
Sodium	10000	14	-9.40	<10000	-6.90	<10000	-17.1	<10000	-11.2	<10000
Strontium	10	.1								
Sulfur	50	3.7								
Thallium	10	5.2	1.10	<10	1.60	<10	1.70	<10	0.600	<10
Tin	10	1.4	anr							
Titanium	10	.8								
Tungsten	50	1.3								
Vanadium	50	.5	0.00	<50	-0.800	<50	0.00	<50	-0.600	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56049 Units: ug/l

Time:			20:34		21:34		22:36		23:36	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.3	-0.900	<20	-0.900	<20	-1.10	<20	-0.800	<20
Zirconium	10	.5								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56049 Units: ug/l

Time:			00:37		01:32	
Sample ID:			CCB8		CCB9	
Metal	RL	IDL	raw	final	raw	final
Aluminum	200	9.2	-9.40	<200	-2.80	<200
Antimony	6.0	2.8	-0.700	<6.0	-0.100	<6.0
Arsenic	3.0	2.6	-0.400	<3.0	-0.200	<3.0
Barium	200	.2	0.300	<200	0.200	<200
Beryllium	1.0	.2	0.100	<1.0	0.100	<1.0
Bismuth	20	2.5				
Boron	100	1.8				
Cadmium	3.0	.4	-0.100	<3.0	0.00	<3.0
Calcium	5000	13	-6.70	<5000	-8.00	<5000
Cerium	100					
Chromium	10	.7	0.200	<10	0.300	<10
Cobalt	50	.6	0.300	<50	-0.100	<50
Copper	10	.7	1.60	<10	1.00	<10
Iron	100	3.3	1.00	<100	-0.800	<100
Lead	3.0	2	-0.400	<3.0	0.100	<3.0
Lithium	50	1.5				
Magnesium	5000	25	10.1	<5000	2.10	<5000
Manganese	15	.1	0.100	<15	0.00	<15
Molybdenum	20	.6	anr			
Nickel	10	.8	0.100	<10	-0.100	<10
Phosphorus	50	7				
Potassium	10000	35	49.9	<10000	31.3	<10000
Selenium	10	3.6	-1.10	<10	-0.700	<10
Silicon	200	2.2				
Silver	10	.6	-1.00	<10	-0.900	<10
Sodium	10000	14	125	<10000	72.8	<10000
Strontium	10	.1				
Sulfur	50	3.7				
Thallium	10	5.2	1.30	<10	0.200	<10
Tin	10	1.4	anr			
Titanium	10	.8				
Tungsten	50	1.3				
Vanadium	50	.5	0.00	<50	0.200	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56049 Units: ug/l

Time:			00:37		01:32	
Sample ID:			CCB8		CCB9	
Metal	RL	IDL	raw	final	raw	final
Zinc	20	.3	-1.00	<20	-1.00	<20
Zirconium	10	.5				

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA56049 Units: ug/l

Time:		17:39	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Aluminum	40000	40000	100.0
Antimony	2000	2010	100.5
Arsenic	2000	2010	100.5
Barium	2000	2020	101.0
Beryllium	2000	2050	102.5
Bismuth			
Boron			
Cadmium	2000	2020	101.0
Calcium	40000	40600	101.5
Cerium			
Chromium	2000	2060	103.0
Cobalt	2000	2020	101.0
Copper	2000	1990	99.5
Iron	40000	40700	101.8
Lead	2000	2050	102.5
Lithium			
Magnesium	40000	40400	101.0
Manganese	2000	2080	104.0
Molybdenum	anr		
Nickel	2000	2040	102.0
Phosphorus			
Potassium	40000	39800	99.5
Selenium	2000	2020	101.0
Silicon			
Silver	250	246	98.4
Sodium	40000	40200	100.5
Strontium			
Sulfur			
Thallium	2000	2080	104.0
Tin	anr		
Titanium			
Tungsten			
Vanadium	2000	2040	102.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA56049 Units: ug/l

Time:		17:39	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Zinc	2000	2070	103.5
Zirconium			

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56049 Units: ug/l

Time:		17:24			18:30			19:30	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39900	99.8	40000	40000	100.0	40000	40200	100.5
Antimony	2000	2030	101.5	2000	2030	101.5	2000	2040	102.0
Arsenic	2000	1970	98.5	2000	2020	101.0	2000	2030	101.5
Barium	2000	2000	100.0	2000	2010	100.5	2000	2020	101.0
Beryllium	2000	2050	102.5	2000	2050	102.5	2000	2070	103.5
Bismuth									
Boron									
Cadmium	2000	2020	101.0	2000	2030	101.5	2000	2040	102.0
Calcium	40000	40900	102.3	40000	40500	101.3	40000	40900	102.3
Cerium									
Chromium	2000	2050	102.5	2000	2080	104.0	2000	2100	105.0
Cobalt	2000	2050	102.5	2000	2020	101.0	2000	2020	101.0
Copper	2000	2040	102.0	2000	2000	100.0	2000	2000	100.0
Iron	40000	41000	102.5	40000	40300	100.8	40000	40200	100.5
Lead	2000	2030	101.5	2000	2060	103.0	2000	2060	103.0
Lithium									
Magnesium	40000	40800	102.0	40000	40300	100.8	40000	40600	101.5
Manganese	2000	2090	104.5	2000	2110	105.5	2000	2140	107.0
Molybdenum	anr								
Nickel	2000	2010	100.5	2000	2040	102.0	2000	2040	102.0
Phosphorus									
Potassium	40000	39400	98.5	40000	39700	99.3	40000	39800	99.5
Selenium	2000	1960	98.0	2000	2020	101.0	2000	2030	101.5
Silicon									
Silver	250	260	104.0	250	247	98.8	250	249	99.6
Sodium	40000	39800	99.5	40000	40300	100.8	40000	40500	101.3
Strontium									
Sulfur									
Thallium	2000	2040	102.0	2000	2090	104.5	2000	2090	104.5
Tin	anr								
Titanium									
Tungsten									
Vanadium	2000	2000	100.0	2000	2060	103.0	2000	2080	104.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56049 Units: ug/l

Time:		17:24			18:30			19:30	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2060	103.0	2000	2070	103.5	2000	2080	104.0
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56049 Units: ug/l

Time:		20:30			21:30			22:31	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40100	100.3	40000	40100	100.3	40000	40000	100.0
Antimony	2000	2030	101.5	2000	2010	100.5	2000	1990	99.5
Arsenic	2000	2020	101.0	2000	2010	100.5	2000	2000	100.0
Barium	2000	2020	101.0	2000	2030	101.5	2000	2000	100.0
Beryllium	2000	2070	103.5	2000	2060	103.0	2000	2030	101.5
Bismuth									
Boron									
Cadmium	2000	2030	101.5	2000	2020	101.0	2000	2020	101.0
Calcium	40000	41200	103.0	40000	41100	102.8	40000	40200	100.5
Cerium									
Chromium	2000	2080	104.0	2000	2090	104.5	2000	2090	104.5
Cobalt	2000	2020	101.0	2000	2020	101.0	2000	2020	101.0
Copper	2000	1980	99.0	2000	1980	99.0	2000	2010	100.5
Iron	40000	40400	101.0	40000	40800	102.0	40000	40600	101.5
Lead	2000	2060	103.0	2000	2070	103.5	2000	2060	103.0
Lithium									
Magnesium	40000	40800	102.0	40000	41200	103.0	40000	40600	101.5
Manganese	2000	2120	106.0	2000	2120	106.0	2000	2090	104.5
Molybdenum	anr								
Nickel	2000	2050	102.5	2000	2050	102.5	2000	2020	101.0
Phosphorus									
Potassium	40000	39900	99.8	40000	40100	100.3	40000	39700	99.3
Selenium	2000	2020	101.0	2000	2010	100.5	2000	1990	99.5
Silicon									
Silver	250	248	99.2	250	248	99.2	250	244	97.6
Sodium	40000	40300	100.8	40000	40300	100.8	40000	40200	100.5
Strontium									
Sulfur									
Thallium	2000	2090	104.5	2000	2090	104.5	2000	2090	104.5
Tin	anr								
Titanium									
Tungsten									
Vanadium	2000	2070	103.5	2000	2070	103.5	2000	2040	102.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56049 Units: ug/l

Time:		20:30			21:30			22:31	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2090	104.5	2000	2100	105.0	2000	2080	104.0
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56049 Units: ug/l

Time:		23:31			00:32			01:28	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40000	100.0	40000	40100	100.3	40000	40100	100.3
Antimony	2000	1980	99.0	2000	1990	99.5	2000	1990	99.5
Arsenic	2000	1990	99.5	2000	2000	100.0	2000	1990	99.5
Barium	2000	1980	99.0	2000	2000	100.0	2000	1980	99.0
Beryllium	2000	2030	101.5	2000	2040	102.0	2000	2030	101.5
Bismuth									
Boron									
Cadmium	2000	2020	101.0	2000	2020	101.0	2000	2020	101.0
Calcium	40000	40100	100.3	40000	40400	101.0	40000	40100	100.3
Cerium									
Chromium	2000	2100	105.0	2000	2110	105.5	2000	2110	105.5
Cobalt	2000	2020	101.0	2000	2030	101.5	2000	2030	101.5
Copper	2000	2010	100.5	2000	2000	100.0	2000	2020	101.0
Iron	40000	40300	100.8	40000	40300	100.8	40000	40300	100.8
Lead	2000	2060	103.0	2000	2070	103.5	2000	2080	104.0
Lithium									
Magnesium	40000	40600	101.5	40000	40500	101.3	40000	40600	101.5
Manganese	2000	2100	105.0	2000	2120	106.0	2000	2110	105.5
Molybdenum	anr								
Nickel	2000	2020	101.0	2000	2030	101.5	2000	2030	101.5
Phosphorus									
Potassium	40000	39500	98.8	40000	39500	98.8	40000	39400	98.5
Selenium	2000	1980	99.0	2000	1990	99.5	2000	1980	99.0
Silicon									
Silver	250	243	97.2	250	246	98.4	250	244	97.6
Sodium	40000	40200	100.5	40000	40000	100.0	40000	40000	100.0
Strontium									
Sulfur									
Thallium	2000	2090	104.5	2000	2100	105.0	2000	2110	105.5
Tin	anr								
Titanium									
Tungsten									
Vanadium	2000	2040	102.0	2000	2070	103.5	2000	2050	102.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56049 Units: ug/l

Time:		23:31			00:32			01:28	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2090	104.5	2000	2100	105.0	2000	2090	104.5
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56049 Units: ug/l

Time:		18:11			18:17	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum				300000	304000	101.3
Antimony	8000	8060	100.8			
Arsenic	8000	7920	99.0			
Barium	8000	7860	98.3			
Beryllium	8000	8010	100.1			
Bismuth						
Boron						
Cadmium	8000	7900	98.8			
Calcium				200000	193000	96.5
Cerium						
Chromium	8000	8310	103.9			
Cobalt	8000	8010	100.1			
Copper	8000	7930	99.1			
Iron				200000	190000	95.0
Lead	8000	8120	101.5			
Lithium						
Magnesium				300000	297000	99.0
Manganese	8000	8040	100.5			
Molybdenum	anr					
Nickel	8000	7960	99.5			
Phosphorus						
Potassium				200000	199000	99.5
Selenium	8000	8020	100.3			
Silicon						
Silver	625	611	97.8			
Sodium				200000	197000	98.5
Strontium						
Sulfur						
Thallium	8000	8310	103.9			
Tin	anr					
Titanium						
Tungsten						
Vanadium	8000	8180	102.3			

HIGH STANDARD CHECK SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56049 Units: ug/l

Time:		18:11			18:17	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Zinc	8000	8220	102.8			
Zirconium						

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56049 Units: ug/l

Time:				17:56		18:40	
Sample ID:	CRI	CRIA	CRID	CRID1		CRI2	
Metal	True	True	True	Results	% Rec	Results	% Rec
Aluminum	200	500	100	95.5	95.5	201	100.5
Antimony	6.0	20	3.0			5.40	90.0
Arsenic	8.0	20	3.0	2.60	86.7	7.00	87.5
Barium	200		4.0	3.50	87.5	193	96.5
Beryllium	2.0		1.0	1.00	100.0	2.00	100.0
Bismuth	20						
Boron	100		10				
Cadmium	3.0		1.0			2.70	90.0
Calcium	5000	2000	1000	1010	101.0	5080	101.6
Cerium							
Chromium	10		2.0	2.20	110.0	10.3	103.0
Cobalt	50		3.0	3.00	100.0	48.6	97.2
Copper	10		2.0			8.10	81.0
Iron	100	500				102	102.0
Lead	3.0	20	2.5			3.40	113.3
Lithium	50						
Magnesium	5000	2000	100	110	110.0	5040	100.8
Manganese	15		3.0	3.10	103.3	15.7	104.7
Molybdenum	20						
Nickel	10		4.0	4.00	100.0	9.70	97.0
Phosphorus	50						
Potassium	5000		2000	1920	96.0	4790	95.8
Selenium	10	20	5.0	4.00	80.0	9.60	96.0
Silicon	200						
Silver	5.0		2.0			4.30	86.0
Sodium	5000		1000	976	97.6	4930	98.6
Strontium	10						
Sulfur	50						
Thallium	10		2.0			11.6	116.0
Tin	10						
Titanium	10						
Tungsten	50						
Vanadium	50		2.0	1.70	85.0	49.9	99.8

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56049 Units: ug/l

Time:				17:56		18:40	
Sample ID:	CRI	CRIA	CRID	CRID1		CRI2	
Metal	True	True	True	Results	% Rec	Results	% Rec
Zinc	20		10			23.7	118.5
Zirconium	10						

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56049 Units: ug/l

Time:			18:01		18:06	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	511000	102.2	499000	99.8
Antimony		1000	5.20		982	98.2
Arsenic		1000	2.30		965	96.5
Barium		500	3.40		504	100.8
Beryllium		500	0.00		504	100.8
Bismuth		500	-0.400		489	97.8
Boron		500	1.40		478	95.6
Cadmium		1000	0.100		1060	106.0
Calcium	400000	400000	416000	104.0	373000	93.3
Cerium			40.1		31.9	
Chromium		500	-0.900		494	98.8
Cobalt		500	0.600		491	98.2
Copper		500	-0.400		541	108.2
Iron	200000	200000	230000	115.0	185000	92.5
Lead		1000	1.70		967	96.7
Lithium		500	-0.800		507	101.4
Magnesium	500000	500000	585000	117.0	489000	97.8
Manganese		500	2.00		526	105.2
Molybdenum		500	0.800		466	93.2
Nickel		1000	5.60		954	95.4
Phosphorus		500	29.3		485	97.0
Potassium			-29.5		-14.6	
Selenium		1000	4.30		943	94.3
Silicon		500	-9.00		556	111.2
Silver		1000	-0.800		1120	112.0
Sodium			37.4		61.3	
Strontium		500	-0.500		498	99.6
Sulfur		500	-5.90		481	96.2
Thallium		1000	-1.20		909	90.9
Tin		500	2.30		457	91.4
Titanium		500	2.00		496	99.2
Tungsten		500	4.00		462	92.4
Vanadium		500	3.70		517	103.4

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SF050924M2.ICP Date Analyzed: 05/09/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56049 Units: ug/l

Time:			18:01		18:06	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Zinc		1000	-5.90		951	95.1
Zirconium		500	1.00		469	93.8

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46431
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/07/24

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	17	150	12.0	<200
Antimony	6.0	1.7	4.7	1.7	<6.0
Arsenic	3.0	2.1	2.8	0.0	<3.0
Barium	200	.8	13	0.20	<200
Beryllium	1.0	.3	.5	0.0	<1.0
Bismuth	20	2.3	8.6		
Boron	100	2.3	10		
Cadmium	3.0	.3	1	0.10	<3.0
Calcium	5000	6.6	99	9.9	<5000
Cerium	100				
Chromium	10	.3	2	-0.10	<10
Cobalt	50	.4	2.6	0.0	<50
Copper	10	.8	5.9	-2.3	<10
Iron	100	5.3	32	1.7	<100
Lead	3.0	1.1	1.8	0.40	<3.0
Lithium	50	4.8	7.3		
Magnesium	5000	32	140	0.60	<5000
Manganese	15	.1	1.4	0.10	<15
Molybdenum	20	.6	3.6		
Nickel	10	.4	1.7	-0.10	<10
Phosphorus	50	1.2	18		
Potassium	10000	77	200	14.7	<10000
Selenium	10	3.2	4.9	-2.1	<10
Silicon	200	1.7	32		
Silver	10	1	6.1	0.80	<10
Sodium	10000	34	570	-41	<10000
Strontium	10	.3	2.7		
Sulfur	50	3	45		
Thallium	10	1.8	1.8	0.10	<10
Tin	10	.8	3.7		
Titanium	10	.5	2.5		
Tungsten	50	2.6	40		
Vanadium	50	.6	1.8	-0.20	<50

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46431
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/07/24

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.1	6.9	0.10	<20
Zirconium	10	.3	4.1		

Associated samples MP46431: JD87833-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46431
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/07/24

Metal	JD87831-1 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	18200	42800	25000	98.4	75-125
Antimony	1.8	1940	2000	96.9	75-125
Arsenic	0.0	2190	2000	109.5	75-125
Barium	227	2280	2000	102.7	75-125
Beryllium	0.60	2080	2000	104.0	75-125
Bismuth					
Boron					
Cadmium	0.40	2040	2000	102.0	75-125
Calcium	38500	66800	25000	113.2	75-125
Cerium					
Chromium	117	2260	2000	107.2	75-125
Cobalt	25.3	1910	2000	94.2	75-125
Copper	38.3	2080	2000	102.1	75-125
Iron	24500	57600	25000	132.4N(a	75-125
Lead	15.5	1890	2000	93.7	75-125
Lithium					
Magnesium	23200	55400	25000	128.8N(a	75-125
Manganese	415	2400	2000	99.3	75-125
Molybdenum					
Nickel	84.9	2150	2000	103.3	75-125
Phosphorus					
Potassium	15600	44600	25000	116.0	75-125
Selenium	0.0	2010	2000	100.5	75-125
Silver	0.0	250	250	100.0	75-125
Sodium	94500	125000	25000	122.0	75-125
Strontium					
Sulfur					
Thallium	0.0	2080	2000	104.0	75-125
Tin					
Titanium					
Tungsten					
Vanadium	43.8	2050	2000	100.3	75-125
Zinc	87.8	2150	2000	103.1	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46431
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/07/24

Metal	JD87831-1 Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP46431: JD87833-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46431
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/07/24

Metal	JD87831-1 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	18200	45600	25000	109.6	6.3	20
Antimony	1.8	1980	2000	98.9	2.0	20
Arsenic	0.0	2240	2000	112.0	2.3	20
Barium	227	2360	2000	106.7	3.4	20
Beryllium	0.60	2140	2000	107.0	2.8	20
Bismuth						
Boron						
Cadmium	0.40	2090	2000	104.5	2.4	20
Calcium	38500	70400	25000	127.6N(a	5.2	20
Cerium						
Chromium	117	2340	2000	111.2	3.5	20
Cobalt	25.3	1960	2000	96.7	2.6	20
Copper	38.3	2050	2000	100.6	1.5	20
Iron	24500	61300	25000	147.2N(a	6.2	20
Lead	15.5	1930	2000	95.7	2.1	20
Lithium						
Magnesium	23200	58500	25000	141.2N(a	5.4	20
Manganese	415	2490	2000	103.8	3.7	20
Molybdenum						
Nickel	84.9	2220	2000	106.8	3.2	20
Phosphorus						
Potassium	15600	46700	25000	124.4	4.6	20
Selenium	0.0	2050	2000	102.5	2.0	20
Silver	0.0	256	250	102.4	2.4	20
Sodium	94500	129000	25000	138.0N(a	3.1	20
Strontium						
Sulfur						
Thallium	0.0	2130	2000	106.5	2.4	20
Tin						
Titanium						
Tungsten						
Vanadium	43.8	2110	2000	103.3	2.9	20
Zinc	87.8	2210	2000	106.1	2.8	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46431
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/07/24

Metal	JD87831-1 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP46431: JD87833-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46431
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/07/24

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	25300	25000	101.2	80-120
Antimony	1900	2000	95.0	80-120
Arsenic	1840	2000	92.0	80-120
Barium	1950	2000	97.5	80-120
Beryllium	1940	2000	97.0	80-120
Bismuth				
Boron				
Cadmium	1930	2000	96.5	80-120
Calcium	25600	25000	102.4	80-120
Cerium				
Chromium	1910	2000	95.5	80-120
Cobalt	1960	2000	98.0	80-120
Copper	1890	2000	94.5	80-120
Iron	24900	25000	99.6	80-120
Lead	1910	2000	95.5	80-120
Lithium				
Magnesium	25000	25000	100.0	80-120
Manganese	1990	2000	99.5	80-120
Molybdenum				
Nickel	1890	2000	94.5	80-120
Phosphorus				
Potassium	24200	25000	96.8	80-120
Selenium	1900	2000	95.0	80-120
Silicon				
Silver	228	250	91.2	80-120
Sodium	25100	25000	100.4	80-120
Strontium				
Sulfur				
Thallium	2000	2000	100.0	80-120
Tin				
Titanium				
Tungsten				
Vanadium	1910	2000	95.5	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46431
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/07/24

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zinc	1970	2000	98.5	80-120
Zirconium				

Associated samples MP46431: JD87833-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46431
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/07/24

Metal	JD87831-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	18200	18700	3.0	0-10
Antimony	1.80	0.00	100.0(a)	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	227	234	3.2	0-10
Beryllium	0.600	0.00	100.0(a)	0-10
Bismuth				
Boron				
Cadmium	0.400	0.00	100.0(a)	0-10
Calcium	38500	38800	1.0	0-10
Cerium				
Chromium	117	119	1.9	0-10
Cobalt	25.3	25.5	0.8	0-10
Copper	38.3	25.9	32.4 (a)	0-10
Iron	24500	24100	1.5	0-10
Lead	15.5	15.1	2.6	0-10
Lithium				
Magnesium	23200	23500	1.2	0-10
Manganese	415	422	1.6	0-10
Molybdenum				
Nickel	84.9	85.6	0.8	0-10
Phosphorus				
Potassium	15600	15800	1.5	0-10
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium	94500	97300	3.1	0-10
Strontium				
Sulfur				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Tungsten				
Vanadium	43.8	43.4	0.9	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46431
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/07/24

Metal	JD87831-1 Original	SDL 1:5	%DIF	QC Limits
Zinc	87.8	115	31.0*(b)	0-10
Zirconium				

Associated samples MP46431: JD87833-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46448
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/07/24

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.013	.095	0.099	<0.20

Associated samples MP46448: JD87833-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46448
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/07/24

Metal	JD87813-1F Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.11	2.1	2	99.5	75-125

Associated samples MP46448: JD87833-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46448
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/07/24

Metal	JD87813-1F Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.11	2.0	2	94.5	4.9	20

Associated samples MP46448: JD87833-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46448
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/07/24 05/07/24

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits	BSD Result	Spikelot HGPW3	% Rec	BSD RPD	QC Limit
Mercury	2.1	2	105.0	80-120	2.0	2	100.0	4.9	

Associated samples MP46448: JD87833-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46464
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 05/08/24

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.92	8.1	0.27	<50
Antimony	2.0	.28	.41	-0.070	<2.0
Arsenic	2.0	.26	.28	0.090	<2.0
Barium	20	.02	1.9	0.020	<20
Beryllium	0.20	.02	.08	0.0	<0.20
Bismuth	2.0	.25	.52		
Boron	10	.18	3.7		
Cadmium	0.50	.04	.07	-0.020	<0.50
Calcium	500	1.3	21	5.9	<500
Chromium	1.0	.07	.37	0.050	<1.0
Cobalt	5.0	.06	.28	0.010	<5.0
Copper	2.5	.07	.84	-0.20	<2.5
Iron	50	.33	19	0.53	<50
Lead	2.0	.2	.41	0.030	<2.0
Lithium	5.0	.15	.92		
Magnesium	500	2.5	14	3.0	<500
Manganese	1.5	.01	.41	0.010	<1.5
Molybdenum	2.0	.06	.32		
Nickel	4.0	.08	.35	0.020	<4.0
Phosphorus	20	.7	3.3		
Potassium	1000	3.5	32	3.3	<1000
Selenium	2.0	.36	.65	0.010	<2.0
Silicon	20	.22	11		
Silver	0.50	.06	.17	-0.040	<0.50
Sodium	1000	1.4	78	5.2	<1000
Strontium	5.0	.01	.18		
Sulfur	10	.37	3.9		
Thallium	1.0	.52	.58	0.080	<1.0
Tin	20	.14	3.8		
Titanium	1.0	.08	.34		
Tungsten	5.0	.13	1.8		
Vanadium	5.0	.05	.19	-0.030	<5.0
Zinc	10	.03	2.3	3.8	<10

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46464
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 05/08/24

Metal	RL	IDL	MDL	MB raw	final
Zirconium	2.0	.05	.54		

Associated samples MP46464: JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15, JD87833-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46464
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 05/08/24

Metal	JD87833-14 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	7700	12600	2630	186.7N(a	75-125
Antimony	0.0	117	210	55.7N(a)	75-125
Arsenic	3.8	189	210	88.2	75-125
Barium	33.0	227	210	92.4	75-125
Beryllium	0.29	191	210	90.8	75-125
Bismuth					
Boron					
Cadmium	0.054	191	210	90.9	75-125
Calcium	1770	4160	2630	91.0	75-125
Chromium	10.2	205	210	92.8	75-125
Cobalt	3.9	196	210	91.5	75-125
Copper	10.9	199	210	89.6	75-125
Iron	11200	14400	2630	121.9	75-125
Lead	26.5	224	210	94.0	75-125
Lithium					
Magnesium	1640	4290	2630	100.9	75-125
Manganese	225	507	210	134.3N(a	75-125
Molybdenum					
Nickel	8.1	202	210	92.3	75-125
Phosphorus					
Potassium	543	3300	2630	105.0	75-125
Selenium	0.0	188	210	89.5	75-125
Silicon					
Silver	0.075	24.5	26.3	93.0	75-125
Sodium	128	2540	2630	91.9	75-125
Strontium					
Sulfur					
Thallium	0.0	198	210	94.3	75-125
Tin					
Titanium					
Tungsten					
Vanadium	17.8	209	210	91.0	75-125
Zinc	42.3	227	210	87.9	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46464 Methods: SW846 6010D
Matrix Type: SOLID Units: mg/kg

Prep Date: 05/08/24

Metal	JD87833-14 Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP46464: JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15, JD87833-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46464
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 05/08/24

Metal	JD87833-14 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	7700	12600	2700	181.3N(a	0.0	20
Antimony	0.0	124	216	57.4N(a)	5.8	20
Arsenic	3.8	197	216	89.4	4.1	20
Barium	33.0	236	216	93.9	3.9	20
Beryllium	0.29	198	216	91.5	3.6	20
Bismuth						
Boron						
Cadmium	0.054	198	216	91.6	3.6	20
Calcium	1770	5040	2700	121.0	19.1	20
Chromium	10.2	210	216	92.4	2.4	20
Cobalt	3.9	203	216	92.1	3.5	20
Copper	10.9	220	216	96.7	10.0	20
Iron	11200	14700	2700	129.5(b)	2.1	20
Lead	26.5	226	216	92.3	0.9	20
Lithium						
Magnesium	1640	4620	2700	110.3	7.4	20
Manganese	225	429	216	94.4	16.7	20
Molybdenum						
Nickel	8.1	210	216	93.4	3.9	20
Phosphorus						
Potassium	543	3540	2700	110.9	7.0	20
Selenium	0.0	195	216	90.2	3.7	20
Silicon						
Silver	0.075	25.5	27	94.1	4.0	20
Sodium	128	2770	2700	97.8	8.7	20
Strontium						
Sulfur						
Thallium	0.0	203	216	93.9	2.5	20
Tin						
Titanium						
Tungsten						
Vanadium	17.8	219	216	93.1	4.7	20
Zinc	42.3	232	216	87.7	2.2	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46464 Methods: SW846 6010D
Matrix Type: SOLID Units: mg/kg

Prep Date: 05/08/24

Metal	JD87833-14 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP46464: JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15, JD87833-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46464
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 05/08/24

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	2280	2500	91.2	80-120
Antimony	180	200	90.0	80-120
Arsenic	179	200	89.5	80-120
Barium	178	200	89.0	80-120
Beryllium	183	200	91.5	80-120
Bismuth				
Boron				
Cadmium	181	200	90.5	80-120
Calcium	2320	2500	92.8	80-120
Chromium	185	200	92.5	80-120
Cobalt	178	200	89.0	80-120
Copper	174	200	87.0	80-120
Iron	2280	2500	91.2	80-120
Lead	183	200	91.5	80-120
Lithium				
Magnesium	2280	2500	91.2	80-120
Manganese	188	200	94.0	80-120
Molybdenum				
Nickel	181	200	90.5	80-120
Phosphorus				
Potassium	2240	2500	89.6	80-120
Selenium	181	200	90.5	80-120
Silicon				
Silver	22.7	25	90.8	80-120
Sodium	2280	2500	91.2	80-120
Strontium				
Sulfur				
Thallium	189	200	94.5	80-120
Tin				
Titanium				
Tungsten				
Vanadium	180	200	90.0	80-120
Zinc	185	200	92.5	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46464
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 05/08/24

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP46464: JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15, JD87833-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46464
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/08/24

Metal	JD87833-14 Original	SDL 1:5	%DIF	QC Limits
Aluminum	71900	75500	5.0	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	35.3	33.7	4.5	0-10
Barium	308	319	3.4	0-10
Beryllium	2.70	2.40	11.1 (a)	0-10
Bismuth				
Boron				
Cadmium	0.500	0.00	100.0(a)	0-10
Calcium	16500	17700	7.0	0-10
Chromium	95.5	102	6.3	0-10
Cobalt	36.6	38.3	4.6	0-10
Copper	102	105	3.4	0-10
Iron	105000	111000	6.3	0-10
Lead	248	253	2.1	0-10
Lithium				
Magnesium	15400	16300	6.2	0-10
Manganese	2100	2260	7.5	0-10
Molybdenum				
Nickel	75.9	76.0	0.1	0-10
Phosphorus				
Potassium	5070	5310	4.7	0-10
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	0.700	0.00	100.0(a)	0-10
Sodium	1200	1260	4.8	0-10
Strontium				
Sulfur				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Tungsten				
Vanadium	166	176	5.8	0-10
Zinc	396	427	7.8	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46464
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/08/24

Metal	JD87833-14 Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP46464: JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15, JD87833-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46464
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/08/24

Metal	Sample ml	Final ml	JD87833-14 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	19.25	20			1866	0.2	200	2000	93.3	80-120
Arsenic										
Barium										
Beryllium										
Bismuth										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Lithium										
Magnesium										
Manganese	19.25	20	2098	2019.325	3879	0.2	200	2000	93.0	80-120
Molybdenum										
Nickel										
Phosphorus										
Potassium										
Selenium										
Silicon										
Silver										
Sodium										
Strontium										
Sulfur										
Thallium										
Tin										
Titanium										
Tungsten										
Vanadium										
Zinc										

POST DIGESTATE SPIKE SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46464
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/08/24

Metal	Sample ml	Final ml	JD87833-14 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Zirconium										

Associated samples MP46464: JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15, JD87833-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46496
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 05/08/24

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0066	.015	-0.014	<0.033

Associated samples MP46496: JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46496
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 05/08/24

Metal	JD87808-19 Original	MS	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.0	0.39	0.353	110.6	80-120

Associated samples MP46496: JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46496 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 05/08/24

Metal	JD87808-19 Original	MSD	Spikelot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.38	0.353	107.7	2.6	20

Associated samples MP46496: JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46496
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date:			05/08/24				05/08/24	
Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits	LCS Result	Spikelot HGLC540112	% Rec	QC Limits
Mercury	0.35	0.333	105.0	80-120	9.1	11	82.7	64-118

Associated samples MP46496: JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46496
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 05/08/24

Metal	LCS Result	Spikelot HGLC540112% Rec		QC Limits
Mercury	8.9	11	80.9	64-118

Associated samples MP46496: JD87833-1, JD87833-2, JD87833-3, JD87833-4, JD87833-5, JD87833-6, JD87833-7, JD87833-8, JD87833-9, JD87833-10, JD87833-11, JD87833-12, JD87833-13, JD87833-14, JD87833-15

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46497 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 05/08/24

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0066	.015	-0.0086	<0.033

Associated samples MP46497: JD87833-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46497
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 05/08/24

Metal	JD87833-16 Original	MS	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.15	0.53	0.329	115.7	80-120

Associated samples MP46497: JD87833-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46497 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 05/08/24

Metal	JD87833-16 Original	MSD	Spikelot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	0.15	0.46	0.329	94.4	14.1	20

Associated samples MP46497: JD87833-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD87833
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46497
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 05/08/24

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.36	0.333	108.0	80-120

Associated samples MP46497: JD87833-16

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: JD87833-1 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-1

Wet Weight (Total)	37.19	g
Tare Weight	30.83	g
Dry Weight (Total)	35.37	g
Solids, Percent	71.4	%

Sample: JD87833-2 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-2

Wet Weight (Total)	28.01	g
Tare Weight	20.96	g
Dry Weight (Total)	27.24	g
Solids, Percent	89.1	%

Sample: JD87833-3 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-3

Wet Weight (Total)	42.38	g
Tare Weight	34.11	g
Dry Weight (Total)	41.43	g
Solids, Percent	88.5	%

Sample: JD87833-4 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-4

Wet Weight (Total)	40.7	g
Tare Weight	31.64	g
Dry Weight (Total)	39.58	g
Solids, Percent	87.6	%

Sample: JD87833-5 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-5

Wet Weight (Total)	31.41	g
Tare Weight	23.14	g
Dry Weight (Total)	30.56	g
Solids, Percent	89.7	%

Sample: JD87833-6 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-6

Wet Weight (Total)	35.93	g
Tare Weight	26.81	g
Dry Weight (Total)	34.91	g
Solids, Percent	88.8	%

Percent Solids Raw Data Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: JD87833-7 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-7

Wet Weight (Total)	32.57	g
Tare Weight	25.27	g
Dry Weight (Total)	31.93	g
Solids, Percent	91.2	%

Sample: JD87833-8 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-8

Wet Weight (Total)	38.25	g
Tare Weight	28.83	g
Dry Weight (Total)	37.41	g
Solids, Percent	91.1	%

Sample: JD87833-9 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-9

Wet Weight (Total)	29.15	g
Tare Weight	21.16	g
Dry Weight (Total)	27.67	g
Solids, Percent	81.5	%

Sample: JD87833-10 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-10

Wet Weight (Total)	40.02	g
Tare Weight	32.67	g
Dry Weight (Total)	38.86	g
Solids, Percent	84.2	%

Sample: JD87833-11 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-11

Wet Weight (Total)	37.64	g
Tare Weight	28.26	g
Dry Weight (Total)	36.49	g
Solids, Percent	87.7	%

Sample: JD87833-12 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-12

Wet Weight (Total)	25.29	g
Tare Weight	19.35	g
Dry Weight (Total)	24.44	g
Solids, Percent	85.7	%

Percent Solids Raw Data Summary

Job Number: JD87833
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: JD87833-13 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-13

Wet Weight (Total)	35.36	g
Tare Weight	28.21	g
Dry Weight (Total)	34.34	g
Solids, Percent	85.7	%

Sample: JD87833-14 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-14

Wet Weight (Total)	36	g
Tare Weight	29.22	g
Dry Weight (Total)	35.37	g
Solids, Percent	90.7	%

Sample: JD87833-15 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: DUPE 1

Wet Weight (Total)	35.07	g
Tare Weight	26.31	g
Dry Weight (Total)	34.27	g
Solids, Percent	90.9	%

Sample: JD87833-16 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: DUPE 2

Wet Weight (Total)	36.45	g
Tare Weight	26.6	g
Dry Weight (Total)	35.64	g
Solids, Percent	91.8	%

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix New World Engineering, Inc.

Ridgewood Berm Sampling, Ridgewood, NJ

23-1429

SGS Job Number: JD87833R

Sampling Date: 05/03/24

Report to:

Matrix New World Engineering, Inc.
26 Columbia Turnpike
Florham Park, NJ 07932
mclelland@mnwe.com

ATTN: Melissa Clelland

Total number of pages in report: **226**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200
Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV, AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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SGS North America Inc.

Sample Summary

Matrix New World Engineering, Inc.

Job No: JD87833R

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD87833-1R	05/03/24	08:30	KM	05/03/24	SO	Soil	SB-1
JD87833-4R	05/03/24	09:00	KM	05/03/24	SO	Soil	SB-4
JD87833-5R	05/03/24	09:05	KM	05/03/24	SO	Soil	SB-5
JD87833-6R	05/03/24	09:10	KM	05/03/24	SO	Soil	SB-6
JD87833-7R	05/03/24	09:20	KM	05/03/24	SO	Soil	SB-7
JD87833-9R	05/03/24	09:35	KM	05/03/24	SO	Soil	SB-9
JD87833-11R	05/03/24	10:00	KM	05/03/24	SO	Soil	SB-11
JD87833-14R	05/03/24	10:35	KM	05/03/24	SO	Soil	SB-14

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Matrix New World Engineering, Inc.	**Job No:**	JD87833R
Site:	Ridgewood Berm Sampling, Ridgewood, NJ	**Report Date**	6/10/2024 9:30:56 AM

On 05/03/2024, 7 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 2.6 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JD87833R was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: LEACHATE **Batch ID:** OP54962A

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD87833-6R: Rx due to BS/BSD outside QC control limits bais low. Confirmation run.
- JD87833-4R: Rx due to BS/BSD outside QC control limits bais low. Confirmation run.
- JD87833-4R for 2-Fluorobiphenyl: Outside of in house control limits.
- OP54962A-BS12 for Benzo(a)anthracene: Outside control limits.

Matrix: LEACHATE **Batch ID:** OP55107A

- All method blanks for this batch meet method specific criteria.
- OP55107A-BSD12: Blank spike outside control limits due to analytical error.Since Blank spike duplicate recovery within control limits,data are qualified and reported.
- JD87833-6R: Sample extracted outside the holding time.Sample reextarcted due to QC recovery for targets and surrogates were outside control limits.
- JD87833-4R: Sample extracted outside the holding time.Sample reextarcted due to QC recovery for targets and surrogates were outside control limits.
- OP55107A-BSD12 for Benzo(a)anthracene: Analytical precision exceeds in-house control limits.
- OP55107A-BS12 for Benzo(a)anthracene: Outside of in house control limits.
- OP55107A-BS12 for Terphenyl-d14: Outside of in house control limits.

Metals Analysis By Method SW846 6010D

Matrix: LEACHATE **Batch ID:** MP46890

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD87833-1RMSD, JD87833-1RMS, JD87833-1RSDL were used as the QC samples for the metals analysis.
- The serial dilution RPD(s) for Lead are outside control limits for sample MP46890-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method SW846 7470A

Matrix:	LEACHATE	Batch ID:	MP46853

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD87671-8BMS, JD87671-8BMSD were used as the QC samples for the metals analysis.

Matrix:	LEACHATE	Batch ID:	MP46896

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD87833-14RMS, JD87833-14RMSD were used as the QC samples for the metals analysis.

General Chemistry By Method SW846 1312

Matrix:	ALL	Batch ID:	GN55279

- The data for SW846 1312 meets quality control requirements.

Matrix:	ALL	Batch ID:	GN55284

- The data for SW846 1312 meets quality control requirements.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JD87833R
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD87833-1R	**SB-1**					
pH, SPLP Leachate		9.38			su	SW846 1312
Volume, SPLP Leachate		2.013			l	SW846 1312
Weight, SPLP Leachate		0.1006			kg	SW846 1312
Dry Weight, SPLP Leachate		0.07185			kg	SW846 1312
JD87833-4R	**SB-4**					
pH, SPLP Leachate		9.49			su	SW846 1312
Volume, SPLP Leachate		2.002			l	SW846 1312
Weight, SPLP Leachate		0.1001			kg	SW846 1312
Dry Weight, SPLP Leachate		0.08771			kg	SW846 1312
Benzo(a)anthracene [a]		0.0785 J	0.10	0.046	ug/l	SW846 8270E BY SIM
JD87833-5R	**SB-5**					
pH, SPLP Leachate		8.91			su	SW846 1312
Volume, SPLP Leachate		3.005			l	SW846 1312
Weight, SPLP Leachate		0.1002			kg	SW846 1312
Dry Weight, SPLP Leachate		0.08991			kg	SW846 1312
Benzo(a)anthracene		0.0483 J	0.10	0.046	ug/l	SW846 8270E BY SIM
JD87833-6R	**SB-6**					
pH, SPLP Leachate		9.53			su	SW846 1312
Volume, SPLP Leachate		2.016			l	SW846 1312
Weight, SPLP Leachate		0.1008			kg	SW846 1312
Dry Weight, SPLP Leachate		0.08951			kg	SW846 1312
Benzo(a)anthracene [a]		0.104	0.10	0.046	ug/l	SW846 8270E BY SIM
JD87833-9R	**SB-9**					
pH, SPLP Leachate		10.02			su	SW846 1312
Volume, SPLP Leachate		2.002			l	SW846 1312
Weight, SPLP Leachate		0.1001			kg	SW846 1312
Dry Weight, SPLP Leachate		0.08158			kg	SW846 1312
JD87833-11R	**SB-11**					
pH, SPLP Leachate		9.65			su	SW846 1312
Volume, SPLP Leachate		2.000			l	SW846 1312
Weight, SPLP Leachate		0.1000			kg	SW846 1312
Dry Weight, SPLP Leachate		0.08770			kg	SW846 1312

Summary of Hits

Job Number: JD87833R
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD87833-14R	**SB-14**					
pH, SPLP Leachate		6.80			su	SW846 1312
Volume, SPLP Leachate		2.006			l	SW846 1312
Weight, SPLP Leachate		0.1003			kg	SW846 1312
Dry Weight, SPLP Leachate		0.09097			kg	SW846 1312

(a) Sample extracted outside the holding time.Sample reextarcted due to QC recovery for targets and surrogates were outside control limits.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SB-1		
Lab Sample ID:	JD87833-1R	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
		Percent Solids:	71.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 50		50	ug/l	1	05/24/24	05/30/24	KP	SW846 6010D [2]	SW846 3010A [4]
Mercury	< 0.00020		0.00020	mg/l	1	05/23/24	05/24/24	CB	SW846 7470A [1]	SW846 7470A [3]

(1) Instrument QC Batch: MA56148
(2) Instrument QC Batch: MA56184
(3) Prep QC Batch: MP46853
(4) Prep QC Batch: MP46890

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	SB-1		
Lab Sample ID:	JD87833-1R	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
		Percent Solids:	71.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	9.38		su	1	05/23/24 12:03	IA	SW846 1312
Volume, SPLP Leachate	2.013		l	1	05/23/24 12:03	IA	SW846 1312
Weight, SPLP Leachate	0.1006		kg	1	05/23/24 12:03	IA	SW846 1312
Dry Weight, SPLP Leachate	0.07185		kg	1	05/23/24 12:03	IA	SW846 1312

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-4		
Lab Sample ID:	JD87833-4R	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	87.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	3H1183.D	1	06/01/24 07:47	RS	05/31/24 10:30	OP55107A	E3H82
Run #2 [b]	4M124151.D	1	05/28/24 11:51	KM	05/27/24 11:30	OP54962A	E4M5826

	Initial Volume	Final Volume
Run #1	500 ml	1.0 ml
Run #2	500 ml	1.0 ml

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	0.0785		0.10	0.046	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	89%	11% [c]	18-119%
321-60-8	2-Fluorobiphenyl	67%	16% [c]	18-104%
1718-51-0	Terphenyl-d14	73%	14%	13-109%

(a) Sample extracted outside the holding time.Sample reextarcted due to QC recovery for targets and surrogates were outside control limits.
(b) Rx due to BS/BSD outside QC control limits bais low. Confirmation run.
(c) Outside of in house control limits.

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-4		
Lab Sample ID:	JD87833-4R	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
		Percent Solids:	87.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	9.49		su	1	05/23/24 12:03	IA	SW846 1312
Volume, SPLP Leachate	2.002		l	1	05/23/24 12:03	IA	SW846 1312
Weight, SPLP Leachate	0.1001		kg	1	05/23/24 12:03	IA	SW846 1312
Dry Weight, SPLP Leachate	0.08771		kg	1	05/23/24 12:03	IA	SW846 1312

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-5		
Lab Sample ID:	JD87833-5R	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	89.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M124152.D	1	05/28/24 12:14	KM	05/27/24 11:30	OP54962A	E4M5826
Run #2							

	Initial Volume	Final Volume
Run #1	500 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	0.0483		0.10	0.046	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	44%		18-119%
321-60-8	2-Fluorobiphenyl	37%		18-104%
1718-51-0	Terphenyl-d14	33%		13-109%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5		
Lab Sample ID:	JD87833-5R	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
		Percent Solids:	89.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	8.91		su	1	05/23/24 12:03	IA	SW846 1312
Volume, SPLP Leachate	3.005		l	1	05/23/24 12:03	IA	SW846 1312
Weight, SPLP Leachate	0.1002		kg	1	05/23/24 12:03	IA	SW846 1312
Dry Weight, SPLP Leachate	0.08991		kg	1	05/23/24 12:03	IA	SW846 1312

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SB-6		
Lab Sample ID:	JD87833-6R	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	88.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	3H1184.D	1	06/01/24 08:12	RS	05/31/24 10:30	OP55107A	E3H82
Run #2 [b]	4M124153.D	1	05/28/24 12:36	KM	05/27/24 11:30	OP54962A	E4M5826

	Initial Volume	Final Volume
Run #1	500 ml	1.0 ml
Run #2	500 ml	1.0 ml

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	0.104		0.10	0.046	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	107%	43%	18-119%
321-60-8	2-Fluorobiphenyl	81%	41%	18-104%
1718-51-0	Terphenyl-d14	74%	22%	13-109%

(a) Sample extracted outside the holding time.Sample reextarcted due to QC recovery for targets and surrogates were outside control limits.
(b) Rx due to BS/BSD outside QC control limits bais low. Confirmation run.

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6		
Lab Sample ID:	JD87833-6R	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
		Percent Solids:	88.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	9.53		su	1	05/23/24 12:03	IA	SW846 1312
Volume, SPLP Leachate	2.016		l	1	05/23/24 12:03	IA	SW846 1312
Weight, SPLP Leachate	0.1008		kg	1	05/23/24 12:03	IA	SW846 1312
Dry Weight, SPLP Leachate	0.08951		kg	1	05/23/24 12:03	IA	SW846 1312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SB-9		
Lab Sample ID:	JD87833-9R	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
		Percent Solids:	81.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 50		50	ug/l	1	05/24/24	05/30/24	KP	SW846 6010D [2]	SW846 3010A [4]
Mercury	< 0.00020		0.00020	mg/l	1	05/23/24	05/24/24	CB	SW846 7470A [1]	SW846 7470A [3]

(1) Instrument QC Batch: MA56148
(2) Instrument QC Batch: MA56184
(3) Prep QC Batch: MP46853
(4) Prep QC Batch: MP46890

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	SB-9		
Lab Sample ID:	JD87833-9R	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
		Percent Solids:	81.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	10.02		su	1	05/23/24 12:03	IA	SW846 1312
Volume, SPLP Leachate	2.002		l	1	05/23/24 12:03	IA	SW846 1312
Weight, SPLP Leachate	0.1001		kg	1	05/23/24 12:03	IA	SW846 1312
Dry Weight, SPLP Leachate	0.08158		kg	1	05/23/24 12:03	IA	SW846 1312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SB-11		
Lab Sample ID:	JD87833-11R	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
		Percent Solids:	87.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 50		50	ug/l	1	05/24/24	05/30/24	KP	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA56184
(2) Prep QC Batch: MP46890

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	SB-11		
Lab Sample ID:	JD87833-11R	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
		Percent Solids:	87.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	9.65		su	1	05/23/24 12:03	IA	SW846 1312
Volume, SPLP Leachate	2.000		l	1	05/23/24 12:03	IA	SW846 1312
Weight, SPLP Leachate	0.1000		kg	1	05/23/24 12:03	IA	SW846 1312
Dry Weight, SPLP Leachate	0.08770		kg	1	05/23/24 12:03	IA	SW846 1312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SB-14		
Lab Sample ID:	JD87833-14R	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
		Percent Solids:	90.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Mercury	< 0.20		0.20	ug/l	1	05/28/24	05/28/24	MK	SW846 7470A [1]	SW846 7470A [2]

(1) Instrument QC Batch: MA56163
(2) Prep QC Batch: MP46896

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	SB-14		
Lab Sample ID:	JD87833-14R	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
		Percent Solids:	90.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	6.80		su	1	05/24/24 21:38	IA	SW846 1312
Volume, SPLP Leachate	2.006		l	1	05/24/24 21:38	IA	SW846 1312
Weight, SPLP Leachate	0.1003		kg	1	05/24/24 21:38	IA	SW846 1312
Dry Weight, SPLP Leachate	0.09097		kg	1	05/24/24 21:38	IA	SW846 1312

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

Page 1 of 2

S, AQ FB

FED-EX Tracking #
Bottle Order Control # DREM-TM-05124-184
SGS Quote #
SGS Job # JD87833

Client / Reporting Information

Company Name: Matrix New World
Street Address: 26 Columbia Tpke
City: Florham Park State: NJ Zip:
Project Contact: mfeury@mnwc.com E-mail:
Phone #: 201-657-2638
Sampler(s) Name(s): Kerry Murphy Phone #: 973-818-1586

Project Information

Project Name: Ridgewood Berm Sampling
Street:
City: Ridgewood State: NJ
Project #: 23-1429
Client Purchase Order #:
Project Manager: Melissa Feury

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	TCL SVOC's	TAL Metals	TCL Pesticides	PCB's	LAB USE ONLY
1	SB-1		5/3/24	0830	KM	G	N	S	1					1				X	X	X	X	D91
2	SB-2			0835	KM	G	N	S	1					1				X	X			E91
3	SB-3			0840	KM	G	N	S	1					1				X	X	X	X	A12
4	SB-4			0900	KM	G	N	S	1					1				X	X	X	X	
5	SB-5			0905	KM	G	N	S	1					1				X	X	X	X	
6	SB-6			0910	KM	G	N	S	1					1				X	X			
7	SB-7			0920	KM	G	N	S	1					1				X	X	X	X	
8	SB-8			0930	KM	G	N	S	1					1				X	X	X	X	
9	SB-9			0935	KM	G	N	S	1					1				X	X			
10	SB-10			0950	KM	G	N	S	1					1				X	X	X	X	
11	SB-11			1000	KM	G	N	S	1					1				X	X	X	X	
12	SB-12			1015	KM	C	N	S	1					1				X	X	X	X	

Number of Bottles / pH Check (Lab Use Only)

Turn Around Time (Business Days)

Approved By (SGS PM) / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via SGS Engage

* Approval needed for 1-3 BD TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [X] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Initial Assessment 3BHR
•2x300ml
http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	[signature]	5/3/24 1530	[signature] 5/3/24 830	[signature] 5/3/24 17:08	17:08	2 [signature]
3			3	4		4
5			5	Custody Seal #	Intact / Not Intact / Absent	Therm ID: / See Sample Receipt Summary

On Ice: Cooler Temp. °C: 2.1 °C 2.2 °C IR50

~~Fed-Ex 2163~~

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

FED-EX Tracking # | Bottle Order Control #
SGS Quote # | SGS Job #

Client / Reporting Information

Company Name: Matrix New World
Street Address: 26 Columbia Tpke.
City: Florham Park State: NJ Zip:
Project Contact: mfeury@mnw.com E-mail:
Phone #: 201-057-2638
Sampler(s) Name(s): E. Murphy Phone #: 973-219-3401

Project Information

Project Name: Ridgewood Berm Sampling
Street:
City: Ridgewood State: NJ
Project #: 23-1429
Client Purchase Order #:
Project Manager: Melissa Feury
Attention:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:

TCL SVOCs | TAL Metals | TCL Pesticides | PCBs

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	EnCore	pH Check (Lab Use Only)					LAB USE ONLY
13	SB-13		5/3/24	1030	KM	G	N	S	1					1				X	X				
14	SB-14			1035	KM	G	N	S	1					1				X	X	X	X		
15	Dupe 1				KM	G	N	S	1					1				X	X	X	X		
16	Dupe 2				KM	G	N	S	1					1				X	X	X	X		
17	• Field Blank			1100	KM		N	W	5			1		4				X	X	X	X		

Turn Around Time (Business Days)

Approved By (SGS PM) / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via SGS Engage
* Approval needed for 1-3 BD TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [X] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results only, Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

• 2x300mL AMBER

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:
1	[signature]	5/3/24 1539	[signature]
2	[signature]	5/3/24 1539	[signature] 5/3/24 17:58
3			
4			
5			

Custody Seal # | [ ] Intact [ ] Not intact [ ] Absent | Therm ID: | On Ice | Cooler Temp. °C | See Sample Receipt Summary [ ]

EHSA-QAC-0023-05 Rev.Date:8/5/22

3 Coolers / TR 50 21 x2. / SGS Courier

SGS Sample Receipt Summary

Job Number: JD87833 **Client:** MATRIX NEW WORLD ENGINEERING, IN **Project:** RIDGEWOOD BERM SAMPLING, RIDGE

Date / Time Received: 5/3/2024 5:08:00 PM **Delivery Method:** SGS COURIER **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.1); Cooler 2: (2.2);

Cooler Temps (Corrected) °C: Cooler 1: (2.5); Cooler 2: (2.6);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Job Change Order: JD87833

Requested Date: 5/17/2024 **Received Date:** 5/3/2024

Account Name: Matrix New World Engineering, In **Due Date:** 5/17/2024

Project Description: Ridgewood Berm Sampling, Ridgewood, NJ **Deliverable:** REDT2

C/O Initiated By: KELLY_RAM **PM:** TM **TAT (Days):** 7

Sample #: JD87833-1, -9 **Dept:**

Client ID: **TAT:** 7

Change: Please relog for EHG, SPLPE, SPLPRATIO, EPB

Sample #: JD87833-4 **Dept:**

Client ID: SB-4 **TAT:**

Change: Please relog for B8270SPLPSIMBANTH, SPLPE, SPLPRATIO,

---

Sample #: JD87833-5, -6 **Dept:**

Client ID: **TAT:**

Change: Please relog for B8270SPLPSIMBANTH, BSIM+BAPYRN, SPLPE, SPLPRATIO,

---

Sample #: JD87833-7 **Dept:**

Client ID: SB-7 **TAT:**

Change: Please relog for B8270SPLPSIMBAPYRN, SPLPE, SPLPRATIO,

---

Above Changes Per: Melissa Feury **Date/Time:** 5/20/2024

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD87833R: Chain of Custody
Page 4 of 6

Job Change Order: JD87833

Requested Date:	5/17/2024	**Received Date:**	5/3/2024
Account Name:	Matrix New World Engineering, In	**Due Date:**	5/17/2024
Project Description:	Ridgewood Berm Sampling, Ridgewood, NJ	**Deliverable:**	REDT2
C/O Initiated By:	KELLY_RAM **PM:** TM	**TAT (Days):**	7

==========

Sample #: JD87833-11 **Dept:**

Client ID: SB-11 **TAT:**

Change: Please relog for SPLPE, SPLPRATIO, EPB

==========

Sample #: JD87833-14 **Dept:**

Client ID: SB-14 **TAT:**

Change: Please relog for EHG, SPLPE, SPLPRATIO,

Above Changes Per: Melissa Feury **Date/Time:** 5/20/2024

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD87833R: Chain of Custody

Job Change Order: JD87833

Requested Date:	5/28/2024	**Received Date:**	5/3/2024
Account Name:	Matrix New World Engineering, In	**Due Date:**	5/28/2024
Project Description:	Ridgewood Berm Sampling, Ridgewood, NJ	**Deliverable:**	REDT2
C/O Initiated By:	SARAH_YE **PM:** TM	**TAT (Days):**	6

==========

Sample #: JD87833-15 **Dept:**

Client ID: DUPE 1 **TAT:** 6

Change: Relog for B8270SPLPSIMBANTH, SPLPE, SPLPRATIO

==========

Sample #: JD87833--5R,-6R **Dept:**

Client ID: **TAT:** 6

Change: NO OUT data for BSIM+BAPYRN

==========

Sample #: JD87833--7R **Dept:**

Client ID: **TAT:** 6

Change: NO OUT data for B8270SPLPSIMBAPYRN, SPLPE, SPLPRATIO

Above Changes Per: Melissa Feury **Date/Time:** 5/28/2024

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD87833R: Chain of Custody

Page 6 of 6

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD87833R

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD87833-1R	Collected: 03-MAY-24 08:30 By: KM		Received: 03-MAY-24		By: AR	
SB-1						
JD87833-1R	SW846 1312	23-MAY-24 12:03	IA			SPLPRATIO
JD87833-1R	SW846 7470A	24-MAY-24 13:22	CB	23-MAY-24	MK	EHG
JD87833-1R	SW846 6010D	30-MAY-24 02:57	KP	24-MAY-24	SS	EPB
JD87833-4R	Collected: 03-MAY-24 09:00 By: KM		Received: 03-MAY-24		By: AR	
SB-4						
JD87833-4R	SW846 1312	23-MAY-24 12:03	IA			SPLPRATIO
JD87833-4R	SW846 8270E BY SIM	28-MAY-24 11:51	KM	27-MAY-24		
JD87833-4R	SW846 8270E BY SIM	01-JUN-24 07:47	RS	31-MAY-24	DS	B8270SPLPSIMBANTH
JD87833-5R	Collected: 03-MAY-24 09:05 By: KM		Received: 03-MAY-24		By: AR	
SB-5						
JD87833-5R	SW846 1312	23-MAY-24 12:03	IA			SPLPRATIO
JD87833-5R	SW846 8270E BY SIM	28-MAY-24 12:14	KM	27-MAY-24	SK	B8270SPLPSIMBANTH
JD87833-6R	Collected: 03-MAY-24 09:10 By: KM		Received: 03-MAY-24		By: AR	
SB-6						
JD87833-6R	SW846 1312	23-MAY-24 12:03	IA			SPLPRATIO
JD87833-6R	SW846 8270E BY SIM	28-MAY-24 12:36	KM	27-MAY-24		
JD87833-6R	SW846 8270E BY SIM	01-JUN-24 08:12	RS	31-MAY-24	DS	B8270SPLPSIMBANTH
JD87833-9R	Collected: 03-MAY-24 09:35 By: KM		Received: 03-MAY-24		By: AR	
SB-9						
JD87833-9R	SW846 1312	23-MAY-24 12:03	IA			SPLPRATIO
JD87833-9R	SW846 7470A	24-MAY-24 13:24	CB	23-MAY-24	MK	EHG
JD87833-9R	SW846 6010D	30-MAY-24 03:33	KP	24-MAY-24	SS	EPB
JD87833-11R	Collected: 03-MAY-24 10:00 By: KM		Received: 03-MAY-24		By: AR	
SB-11						
JD87833-11R	SW846 1312	23-MAY-24 12:03	IA			SPLPRATIO
JD87833-11R	SW846 6010D	30-MAY-24 03:38	KP	24-MAY-24	SS	EPB

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD87833R

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD87833-14	Collected: 03-MAY-24 10:35 By: KM		Received: 03-MAY-24 By: AR			
SB-14						
JD87833-14B	SW846 1312	24-MAY-24 21:38	IA			SPLPRATIO
JD87833-14B	SW846 7470A	28-MAY-24 13:05	MK	28-MAY-24	MK	EHG

SGS Internal Chain of Custody

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-1.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-1.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-1.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-1.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-1.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-1.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-1.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-1.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-1.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-1.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-1.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-1.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-1.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-1.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-1.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-1.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-1.1	Secured Storage	Dave Hunkele	05/22/24 10:46	Retrieve from Storage
JD87833-1.1	Dave Hunkele	Secured Staging Area	05/22/24 10:46	Return to Storage
JD87833-1.1	Secured Staging Area	Joseph Dye	05/22/24 13:27	Retrieve from Storage
JD87833-1.1	Joseph Dye	Secured Storage	05/22/24 21:01	Return to Storage
JD87833-1.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-1.1
JD87833-1.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-1.1
JD87833-1.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-1.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-1.1
JD87833-1.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-1.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-1.1
JD87833-1.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-1.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-1.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-1.1
JD87833-1.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-1.1
JD87833-1.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-1.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage
JD87833-1.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument
JD87833-1.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-1.1
JD87833-1.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-1.1
JD87833-1.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-1.1.5	Joseph Dye	TCLP	05/22/24 13:27	Leachate from JD87833-1.1
JD87833-1.1.5	TCLP	Joseph Dye	05/22/24 19:57	Leachate from JD87833-1.1

SGS Internal Chain of Custody

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-1.1.5	Joseph Dye	Secured Storage	05/22/24 19:57	Return to Storage
JD87833-4.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-4.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-4.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-4.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-4.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-4.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-4.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-4.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-4.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-4.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-4.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-4.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-4.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-4.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-4.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-4.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-4.1	Secured Storage	Dave Hunkele	05/22/24 10:46	Retrieve from Storage
JD87833-4.1	Dave Hunkele	Secured Staging Area	05/22/24 10:46	Return to Storage
JD87833-4.1	Secured Staging Area	Joseph Dye	05/22/24 13:27	Retrieve from Storage
JD87833-4.1	Joseph Dye	Secured Storage	05/22/24 21:01	Return to Storage
JD87833-4.1	Secured Storage	Dave Hunkele	05/29/24 12:55	Retrieve from Storage
JD87833-4.1	Dave Hunkele	Secured Staging Area	05/29/24 12:56	Return to Storage
JD87833-4.1	Secured Staging Area	Joseph Dye	05/29/24 20:08	Retrieve from Storage
JD87833-4.1	Joseph Dye	Secured Storage	05/29/24 22:00	Return to Storage
JD87833-4.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-4.1
JD87833-4.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-4.1
JD87833-4.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-4.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-4.1
JD87833-4.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-4.1
JD87833-4.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-4.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-4.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-4.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-4.1
JD87833-4.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-4.1
JD87833-4.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-4.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage
JD87833-4.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument

SGS Internal Chain of Custody

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-4.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-4.1
JD87833-4.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-4.1
JD87833-4.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-4.1.5	Joseph Dye	TCLP	05/22/24 13:27	Leachate from JD87833-4.1
JD87833-4.1.5	TCLP	Joseph Dye	05/22/24 19:57	Leachate from JD87833-4.1
JD87833-4.1.5	Joseph Dye	Secured Storage	05/22/24 19:57	Return to Storage
JD87833-4.1.5	Secured Storage	Sarim Khan	05/27/24 10:56	Retrieve from Storage
JD87833-4.1.6	Sarim Khan	Organics Prep	05/27/24 10:56	Extract from JD87833-4.1.5
JD87833-4.1.6	Organics Prep	Sarim Khan	05/27/24 16:56	Extract from JD87833-4.1.5
JD87833-4.1.6	Sarim Khan	Extract Storage	05/27/24 16:56	Return to Storage
JD87833-4.1.7	Joseph Dye	TCLP	05/29/24 20:08	Leachate from JD87833-4.1
JD87833-4.1.7	TCLP	Joseph Dye	05/29/24 20:09	Leachate from JD87833-4.1
JD87833-4.1.7	Joseph Dye	Secured Storage	05/29/24 20:10	Return to Storage
JD87833-4.1.7	Secured Storage	Doaa Salem	05/31/24 10:15	Retrieve from Storage
JD87833-4.1.7	Doaa Salem	Secured Storage	06/04/24 09:05	Return to Storage
JD87833-4.1.8	Doaa Salem	Organics Prep	05/31/24 10:15	Extract from JD87833-4.1.7
JD87833-4.1.8	Organics Prep	Doaa Salem	05/31/24 18:38	Extract from JD87833-4.1.7
JD87833-4.1.8	Doaa Salem	Extract Storage	05/31/24 18:38	Return to Storage
JD87833-5.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-5.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-5.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-5.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-5.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-5.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-5.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-5.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-5.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-5.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-5.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-5.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-5.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-5.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-5.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-5.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-5.1	Secured Storage	Dave Hunkele	05/22/24 10:46	Retrieve from Storage
JD87833-5.1	Dave Hunkele	Secured Staging Area	05/22/24 10:46	Return to Storage
JD87833-5.1	Secured Staging Area	Joseph Dye	05/22/24 13:27	Retrieve from Storage
JD87833-5.1	Joseph Dye	Secured Storage	05/22/24 21:01	Return to Storage

SGS Internal Chain of Custody

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-5.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-5.1
JD87833-5.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-5.1
JD87833-5.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-5.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-5.1
JD87833-5.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-5.1
JD87833-5.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-5.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-5.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-5.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-5.1
JD87833-5.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-5.1
JD87833-5.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-5.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage
JD87833-5.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument
JD87833-5.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-5.1
JD87833-5.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-5.1
JD87833-5.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-5.1.5	Joseph Dye	TCLP	05/22/24 13:27	Leachate from JD87833-5.1
JD87833-5.1.5	TCLP	Joseph Dye	05/22/24 19:57	Leachate from JD87833-5.1
JD87833-5.1.5	Joseph Dye	Secured Storage	05/22/24 19:57	Return to Storage
JD87833-5.1.5	Secured Storage	Sarim Khan	05/27/24 10:56	Retrieve from Storage
JD87833-5.1.6	Sarim Khan	Organics Prep	05/27/24 10:56	Extract from JD87833-5.1.5
JD87833-5.1.6	Organics Prep	Sarim Khan	05/27/24 16:56	Extract from JD87833-5.1.5
JD87833-5.1.6	Sarim Khan	Extract Storage	05/27/24 16:56	Return to Storage
JD87833-6.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-6.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-6.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-6.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-6.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-6.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-6.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-6.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-6.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-6.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-6.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-6.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-6.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-6.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-6.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-6.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-6.1	Secured Storage	Dave Hunkele	05/22/24 10:46	Retrieve from Storage
JD87833-6.1	Dave Hunkele	Secured Staging Area	05/22/24 10:46	Return to Storage
JD87833-6.1	Secured Staging Area	Joseph Dye	05/22/24 13:27	Retrieve from Storage
JD87833-6.1	Joseph Dye	Secured Storage	05/22/24 21:01	Return to Storage
JD87833-6.1	Secured Storage	Dave Hunkele	05/29/24 12:55	Retrieve from Storage
JD87833-6.1	Dave Hunkele	Secured Staging Area	05/29/24 12:56	Return to Storage
JD87833-6.1	Secured Staging Area	Joseph Dye	05/29/24 20:08	Retrieve from Storage
JD87833-6.1	Joseph Dye	Secured Storage	05/29/24 22:00	Return to Storage
JD87833-6.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-6.1
JD87833-6.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-6.1
JD87833-6.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-6.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-6.1
JD87833-6.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-6.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-6.1
JD87833-6.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-6.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-6.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-6.1
JD87833-6.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-6.1
JD87833-6.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-6.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-6.1
JD87833-6.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-6.1
JD87833-6.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-6.1.5	Joseph Dye	TCLP	05/22/24 13:27	Leachate from JD87833-6.1
JD87833-6.1.5	TCLP	Joseph Dye	05/22/24 19:57	Leachate from JD87833-6.1
JD87833-6.1.5	Joseph Dye	Secured Storage	05/22/24 19:57	Return to Storage
JD87833-6.1.5	Secured Storage	Sarim Khan	05/27/24 10:56	Retrieve from Storage
JD87833-6.1.6	Sarim Khan	Organics Prep	05/27/24 10:56	Extract from JD87833-6.1.5
JD87833-6.1.6	Organics Prep	Sarim Khan	05/27/24 16:56	Extract from JD87833-6.1.5
JD87833-6.1.6	Sarim Khan	Extract Storage	05/27/24 16:56	Return to Storage
JD87833-6.1.7	Joseph Dye	TCLP	05/29/24 20:08	Leachate from JD87833-6.1
JD87833-6.1.7	TCLP	Joseph Dye	05/29/24 20:09	Leachate from JD87833-6.1
JD87833-6.1.7	Joseph Dye	Secured Storage	05/29/24 20:10	Return to Storage
JD87833-6.1.7	Secured Storage	Doaa Salem	05/31/24 10:15	Retrieve from Storage
JD87833-6.1.7	Doaa Salem	Secured Storage	06/04/24 09:05	Return to Storage

SGS Internal Chain of Custody

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-6.1.8	Doaa Salem	Organics Prep	05/31/24 10:15	Extract from JD87833-6.1.7
JD87833-6.1.8	Organics Prep	Doaa Salem	05/31/24 18:38	Extract from JD87833-6.1.7
JD87833-6.1.8	Doaa Salem	Extract Storage	05/31/24 18:38	Return to Storage
JD87833-7.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-7.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-7.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-7.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-7.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-7.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-7.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-7.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-7.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-7.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-7.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-7.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-7.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-7.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-7.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-7.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-7.1	Secured Storage	Dave Hunkele	05/22/24 10:46	Retrieve from Storage
JD87833-7.1	Dave Hunkele	Secured Staging Area	05/22/24 10:46	Return to Storage
JD87833-7.1	Secured Staging Area	Joseph Dye	05/22/24 13:27	Retrieve from Storage
JD87833-7.1	Joseph Dye	Secured Storage	05/22/24 21:01	Return to Storage
JD87833-7.1	Secured Storage	Joseph Dye	05/29/24 20:08	Retrieve from Storage
JD87833-7.1	Joseph Dye	Secured Storage	05/29/24 22:00	Return to Storage
JD87833-7.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-7.1
JD87833-7.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-7.1
JD87833-7.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-7.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-7.1
JD87833-7.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-7.1
JD87833-7.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-7.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-7.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-7.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-7.1
JD87833-7.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-7.1
JD87833-7.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-7.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage
JD87833-7.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument

SGS Internal Chain of Custody

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-7.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-7.1
JD87833-7.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-7.1
JD87833-7.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-7.1.5	Joseph Dye	TCLP	05/22/24 13:27	Leachate from JD87833-7.1
JD87833-7.1.5	TCLP	Joseph Dye	05/22/24 19:57	Leachate from JD87833-7.1
JD87833-7.1.5	Joseph Dye	Secured Storage	05/22/24 19:57	Return to Storage
JD87833-7.1.5	Secured Storage	Sarim Khan	05/27/24 10:56	Retrieve from Storage
JD87833-7.1.6	Sarim Khan	Organics Prep	05/27/24 10:56	Extract from JD87833-7.1.5
JD87833-7.1.6	Organics Prep	Sarim Khan	05/27/24 16:56	Extract from JD87833-7.1.5
JD87833-7.1.6	Sarim Khan	Extract Storage	05/27/24 16:56	Return to Storage
JD87833-7.1.7	Joseph Dye	TCLP	05/29/24 20:08	Leachate from JD87833-7.1
JD87833-7.1.7	TCLP	Joseph Dye	05/29/24 20:09	Leachate from JD87833-7.1
JD87833-7.1.7	Joseph Dye	Secured Storage	05/29/24 20:10	Return to Storage
JD87833-7.1.7	Secured Storage	Doaa Salem	05/31/24 10:15	Retrieve from Storage
JD87833-7.1.7	Doaa Salem	Secured Storage	06/04/24 09:05	Return to Storage
JD87833-7.1.8	Doaa Salem	Organics Prep	05/31/24 10:15	Extract from JD87833-7.1.7
JD87833-7.1.8	Organics Prep	Doaa Salem	05/31/24 18:38	Extract from JD87833-7.1.7
JD87833-7.1.8	Doaa Salem	Extract Storage	05/31/24 18:38	Return to Storage
JD87833-9.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-9.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-9.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-9.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-9.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-9.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-9.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-9.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-9.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-9.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-9.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-9.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-9.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-9.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-9.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-9.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-9.1	Secured Storage	Dave Hunkele	05/22/24 10:46	Retrieve from Storage
JD87833-9.1	Dave Hunkele	Secured Staging Area	05/22/24 10:46	Return to Storage
JD87833-9.1	Secured Staging Area	Joseph Dye	05/22/24 13:27	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-9.1	Joseph Dye	Secured Storage	05/22/24 21:01	Return to Storage
JD87833-9.1	Secured Storage	Dave Hunkele	05/23/24 05:54	Retrieve from Storage
JD87833-9.1	Dave Hunkele	Secured Staging Area	05/23/24 05:54	Return to Storage
JD87833-9.1	Secured Staging Area	Brianna Perez	05/23/24 06:44	Retrieve from Storage
JD87833-9.1	Brianna Perez	Secured Storage	05/23/24 16:24	Return to Storage
JD87833-9.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-9.1
JD87833-9.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-9.1
JD87833-9.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-9.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-9.1
JD87833-9.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-9.1
JD87833-9.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-9.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-9.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-9.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-9.1
JD87833-9.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-9.1
JD87833-9.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-9.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-9.1
JD87833-9.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-9.1
JD87833-9.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-9.1.5	Joseph Dye	TCLP	05/22/24 13:27	Leachate from JD87833-9.1
JD87833-9.1.5	TCLP	Joseph Dye	05/22/24 19:57	Leachate from JD87833-9.1
JD87833-9.1.5	Joseph Dye	Secured Storage	05/22/24 19:57	Return to Storage
JD87833-11.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-11.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-11.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-11.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-11.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-11.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-11.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-11.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-11.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-11.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-11.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-11.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-11.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-11.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-11.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-11.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-11.1	Secured Storage	Dave Hunkele	05/22/24 10:46	Retrieve from Storage
JD87833-11.1	Dave Hunkele	Secured Staging Area	05/22/24 10:46	Return to Storage
JD87833-11.1	Secured Staging Area	Joseph Dye	05/22/24 13:27	Retrieve from Storage
JD87833-11.1	Joseph Dye	Secured Storage	05/22/24 21:01	Return to Storage
JD87833-11.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-11.1
JD87833-11.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-11.1
JD87833-11.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-11.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-11.1
JD87833-11.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-11.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-11.1
JD87833-11.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-11.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-11.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-11.1
JD87833-11.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-11.1
JD87833-11.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-11.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage
JD87833-11.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument
JD87833-11.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-11.1
JD87833-11.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-11.1
JD87833-11.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-11.1.5	Joseph Dye	TCLP	05/22/24 13:27	Leachate from JD87833-11.1
JD87833-11.1.5	TCLP	Joseph Dye	05/22/24 19:57	Leachate from JD87833-11.1
JD87833-11.1.5	Joseph Dye	Secured Storage	05/22/24 19:57	Return to Storage
JD87833-14.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-14.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-14.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-14.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-14.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-14.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-14.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-14.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-14.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-14.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-14.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-14.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-14.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-14.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-14.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-14.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-14.1	Secured Storage	Dave Hunkele	05/22/24 10:46	Retrieve from Storage
JD87833-14.1	Dave Hunkele	Secured Staging Area	05/22/24 10:46	Return to Storage
JD87833-14.1	Secured Staging Area	Joseph Dye	05/22/24 13:27	Retrieve from Storage
JD87833-14.1	Joseph Dye	Secured Storage	05/22/24 21:01	Return to Storage
JD87833-14.1	Secured Storage	Dave Hunkele	05/23/24 09:36	Retrieve from Storage
JD87833-14.1	Dave Hunkele	Secured Staging Area	05/23/24 09:36	Return to Storage
JD87833-14.1	Secured Staging Area	Joseph Dye	05/23/24 14:10	Retrieve from Storage
JD87833-14.1	Joseph Dye	Secured Storage	05/23/24 22:49	Return to Storage
JD87833-14.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-14.1
JD87833-14.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-14.1
JD87833-14.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-14.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-14.1
JD87833-14.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-14.1
JD87833-14.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-14.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-14.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-14.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-14.1
JD87833-14.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-14.1
JD87833-14.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-14.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage
JD87833-14.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument
JD87833-14.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-14.1
JD87833-14.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-14.1
JD87833-14.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-14.1.5	Joseph Dye	TCLP	05/22/24 13:27	Leachate from JD87833-14.1
JD87833-14.1.5	TCLP	Joseph Dye	05/23/24 22:44	Leachate from JD87833-14.1
JD87833-14.1.5	Joseph Dye	Secured Storage	05/23/24 22:45	Return to Storage
JD87833-14.1.6	Joseph Dye	TCLP	05/23/24 14:10	Leachate from JD87833-14.1

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54962A-MB1	4M124147.D	1	05/28/24	KM	05/27/24	OP54962A	E4M5826

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD87833-5R

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.10	0.046	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	4%* [a]	12-75%
4165-62-2	Phenol-d5	2%* [a]	14-59%
118-79-6	2,4,6-Tribromophenol	58%	19-157%
4165-60-0	Nitrobenzene-d5	34%	18-119%
321-60-8	2-Fluorobiphenyl	32%	18-104%
1718-51-0	Terphenyl-d14	22%	13-109%

(a) Outside of in house control limits.

Method Blank Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55107A-MB1	3H1177.D	1	06/01/24	RS	05/31/24	OP55107A	E3H82

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD87833-4R, JD87833-6R

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.10	0.046	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	68%	12-75%
4165-62-2	Phenol-d5	55%	14-59%
118-79-6	2,4,6-Tribromophenol	157%	19-157%
4165-60-0	Nitrobenzene-d5	109%	18-119%
321-60-8	2-Fluorobiphenyl	73%	18-104%
1718-51-0	Terphenyl-d14	103%	13-109%

Leachate Blank Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54962A-LB45	4M124148.D	1	05/28/24	KM	05/27/24	OP54962A	E4M5826

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD87833-5R

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.10	0.046	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	0%* [a]	12-75%
4165-62-2	Phenol-d5	1%* [a]	14-59%
118-79-6	2,4,6-Tribromophenol	17%* [a]	19-157%
4165-60-0	Nitrobenzene-d5	40%	18-119%
321-60-8	2-Fluorobiphenyl	33%	18-104%
1718-51-0	Terphenyl-d14	25%	13-109%

(a) Outside of in house control limits.

Leachate Blank Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55107A-LB51	3H1180.D	1	06/01/24	RS	05/31/24	OP55107A	E3H82

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD87833-4R, JD87833-6R

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.10	0.046	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	65%	12-75%
4165-62-2	Phenol-d5	54%	14-59%
118-79-6	2,4,6-Tribromophenol	152%	19-157%
4165-60-0	Nitrobenzene-d5	99%	18-119%
321-60-8	2-Fluorobiphenyl	69%	18-104%
1718-51-0	Terphenyl-d14	99%	13-109%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54962A-BS12	4M124149.D	1	05/28/24	KM	05/27/24	OP54962A	E4M5826
OP54962A-BSD12	4M124150.D	1	05/28/24	KM	05/27/24	OP54962A	E4M5826

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD87833-5R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
56-55-3	Benzo(a)anthracene	2	0.575	29* [a]	0.545	27* [a]	5	33-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	1%* [a]	8%* [a]	12-75%
4165-62-2	Phenol-d5	0%* [a]	8%* [a]	14-59%
118-79-6	2,4,6-Tribromophenol	54%	52%	19-157%
4165-60-0	Nitrobenzene-d5	39%	40%	18-119%
321-60-8	2-Fluorobiphenyl	36%	36%	18-104%
1718-51-0	Terphenyl-d14	16%	14%	13-109%

(a) Outside control limits.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55107A-BS12	3H1178.D	1	06/01/24	RS	05/31/24	OP55107A	E3H82
OP55107A-BSD12	3H1179.D	1	06/01/24	RS	05/31/24	OP55107A	E3H82

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD87833-4R, JD87833-6R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
56-55-3	Benzo(a)anthracene	2	0.454	23* [b]	1.69	85	115* [c]	33-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	53%	55%	12-75%
4165-62-2	Phenol-d5	37%	46%	14-59%
118-79-6	2,4,6-Tribromophenol	151%	151%	19-157%
4165-60-0	Nitrobenzene-d5	86%	85%	18-119%
321-60-8	2-Fluorobiphenyl	62%	58%	18-104%
1718-51-0	Terphenyl-d14	156%* [b]	92%	13-109%

(a) Blank spike outside control limits due to analytical error. Since Blank spike duplicate recovery within control limits, data are qualified and reported.
(b) Outside of in house control limits.
(c) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	E3H73-DFTPP	**Injection Date:**	05/18/24
Lab File ID:	3H1013A.D	**Injection Time:**	01:16
Instrument ID:	GCMS3H		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	17023	43.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	17054	43.8		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	20696	53.2		Pass
197	Less than 1.0% of mass 198	50	0.13		Pass
198	Base peak, 100% relative abundance	38911	100.0		Pass
199	5.0 - 9.0% of mass 198	2601	6.68		Pass
275	10.0 - 31.0% of mass 198	9310	23.9		Pass
365	1.0 - 100.0% of mass 198	1205	3.10		Pass
441	Present, but less than mass 443	5588	14.4	(92.3) [b]	Pass
442	40.0 - 100.0% of mass 198	31533	81.0		Pass
443	17.0 - 23.0% of mass 442	6057	15.6	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3H73-ICC73	3H1014.D	05/18/24	01:40	00:24	Initial cal 1
E3H73-IC73	3H1015.D	05/18/24	02:04	00:48	Initial cal 0.01
E3H73-IC73	3H1016.D	05/18/24	02:29	01:13	Initial cal 0.02
E3H73-IC73	3H1017.D	05/18/24	02:54	01:38	Initial cal 0.05
E3H73-IC73	3H1018.D	05/18/24	03:19	02:03	Initial cal 0.1
E3H73-IC73	3H1019.D	05/18/24	03:43	02:27	Initial cal 0.2
E3H73-IC73	3H1020.D	05/18/24	04:08	02:52	Initial cal 0.5
E3H73-IC73	3H1021.D	05/18/24	04:32	03:16	Initial cal 2.5
E3H73-IC73	3H1022.D	05/18/24	04:57	03:41	Initial cal 5
E3H73-ICV73	3H1023.D	05/18/24	05:22	04:06	Initial cal verification 1
E3H73-ICV73	3H1024.D	05/18/24	05:46	04:30	Initial cal verification 1
E3H73-ICV73	3H1025.D	05/18/24	06:11	04:55	Initial cal verification 5

Instrument Performance Check (DFTPP)

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H82-DFTPP
Lab File ID: 3H1170.D
Instrument ID: GCMS3H
Injection Date: 06/01/24
Injection Time: 01:52

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	15916	40.0		Pass
68	Less than 2.0% of mass 69	158	0.40	(0.96) [a]	Pass
69	Mass 69 relative abundance	16396	41.2		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	20197	50.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	39801	100.0		Pass
199	5.0 - 9.0% of mass 198	2647	6.65		Pass
275	10.0 - 30.0% of mass 198	9841	24.7		Pass
365	1.0 - 100.0% of mass 198	1327	3.33		Pass
441	Present, but less than mass 443	6100	15.3	(87.3) [b]	Pass
442	40.0 - 100.0% of mass 198	36048	90.6		Pass
443	17.0 - 23.0% of mass 442	6986	17.6	(19.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3H82-CC73	3H1171.D	06/01/24	02:04	00:12	Continuing cal 1
OP54985A-MB2	3H1173.D	06/01/24	03:43	01:51	Method Blank
ZZZZZZ	3H1174.D	06/01/24	04:08	02:16	(unrelated sample)
OP55022A-MB2	3H1175.D	06/01/24	04:32	02:40	Method Blank
OP55022A-BS122	3H1176.D	06/01/24	04:56	03:04	Blank Spike
OP55107A-MB1	3H1177.D	06/01/24	05:21	03:29	Method Blank
OP55107A-BS12	3H1178.D	06/01/24	05:45	03:53	Blank Spike
OP55107A-BSD12	3H1179.D	06/01/24	06:10	04:18	Blank Spike Duplicate
OP55107A-LB51	3H1180.D	06/01/24	06:34	04:42	Leachate Blank
OP55022A-MSA	3H1181.D	06/01/24	06:58	05:06	Matrix Spike
OP55022A-MSDA	3H1182.D	06/01/24	07:23	05:31	Matrix Spike Duplicate
JD87833-4R	3H1183.D	06/01/24	07:47	05:55	SB-4
JD87833-6R	3H1184.D	06/01/24	08:12	06:20	SB-6
ZZZZZZ	3H1186.D	06/01/24	09:01	07:09	(unrelated sample)
ZZZZZZ	3H1187.D	06/01/24	09:25	07:33	(unrelated sample)
ZZZZZZ	3H1188.D	06/01/24	09:49	07:57	(unrelated sample)
ZZZZZZ	3H1189.D	06/01/24	10:14	08:22	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E4M5801-DFTPP
Lab File ID: 4M123522.D
Instrument ID: GCMS4M
Injection Date: 05/02/24
Injection Time: 18:42

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	87352	43.7		Pass
68	Less than 2.0% of mass 69	1508	0.75	(1.68) [a]	Pass
69	Mass 69 relative abundance	89669	44.9		Pass
70	Less than 2.0% of mass 69	443	0.22	(0.49) [a]	Pass
127	40.0 - 60.0% of mass 198	100811	50.4		Pass
197	Less than 1.0% of mass 198	538	0.27		Pass
198	Base peak, 100% relative abundance	199928	100.0		Pass
199	5.0 - 9.0% of mass 198	13325	6.66		Pass
275	10.0 - 30.0% of mass 198	40869	20.4		Pass
365	1.0 - 100.0% of mass 198	4511	2.26		Pass
441	Present, but less than mass 443	20429	10.2	(78.7) [b]	Pass
442	40.0 - 100.0% of mass 198	132779	66.4		Pass
443	17.0 - 23.0% of mass 442	25945	13.0	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M5801-ICC5801	4M123523.D	05/02/24	18:57	00:15	Initial cal 1
E4M5801-IC5801	4M123525.D	05/02/24	19:43	01:01	Initial cal 0.02
E4M5801-IC5801	4M123526.D	05/02/24	20:06	01:24	Initial cal 0.05
E4M5801-IC5801	4M123528.D	05/02/24	20:52	02:10	Initial cal 0.2
E4M5801-IC5801	4M123529.D	05/02/24	21:15	02:33	Initial cal 0.5
E4M5801-IC5801	4M123530.D	05/02/24	21:42	03:00	Initial cal 0.01
E4M5801-IC5801	4M123531.D	05/02/24	22:04	03:22	Initial cal 2.5
E4M5801-IC5801	4M123532.D	05/02/24	22:27	03:45	Initial cal 0.1
E4M5801-IC5801	4M123533.D	05/02/24	22:50	04:08	Initial cal 5
E4M5801-ICV5801	4M123534.D	05/02/24	23:19	04:37	Initial cal verification 1
E4M5801-ICV5801	4M123535.D	05/02/24	23:42	05:00	Initial cal verification 1
E4M5801-ICV5801	4M123536.D	05/03/24	00:04	05:22	Initial cal verification 5
OP54175A-MB1	4M123537.D	05/03/24	00:27	05:45	Method Blank
OP54175A-BS12	4M123538.D	05/03/24	00:50	06:08	Blank Spike
OP54175A-BSD12	4M123539.D	05/03/24	01:12	06:30	Blank Spike Duplicate
ZZZZZZ	4M123540.D	05/03/24	01:35	06:53	(unrelated sample)
ZZZZZZ	4M123541.D	05/03/24	01:58	07:16	(unrelated sample)
ZZZZZZ	4M123542.D	05/03/24	02:21	07:39	(unrelated sample)
ZZZZZZ	4M123543.D	05/03/24	02:43	08:01	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	E4M5801-DFTPP	**Injection Date:**	05/02/24
Lab File ID:	4M123522.D	**Injection Time:**	18:42
Instrument ID:	GCMS4M		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	4M123544.D	05/03/24	03:06	08:24	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E4M5802-DFTPP
Lab File ID: 4M123545.D
Instrument ID: GCMS4M
Injection Date: 05/03/24
Injection Time: 11:31

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36746	45.6		Pass
68	Less than 2.0% of mass 69	681	0.85	(1.79) [a]	Pass
69	Mass 69 relative abundance	38067	47.2		Pass
70	Less than 2.0% of mass 69	82	0.10	(0.22) [a]	Pass
127	40.0 - 60.0% of mass 198	43312	53.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	80576	100.0		Pass
199	5.0 - 9.0% of mass 198	5327	6.61		Pass
275	10.0 - 30.0% of mass 198	16440	20.4		Pass
365	1.0 - 100.0% of mass 198	1708	2.12		Pass
441	Present, but less than mass 443	7766	9.64	(82.8) [b]	Pass
442	40.0 - 100.0% of mass 198	46375	57.6		Pass
443	17.0 - 23.0% of mass 442	9382	11.6	(20.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M5802-ICV5801	4M123547.D	05/03/24	12:24	00:53	Initial cal verification 5
E4M5802-CC5801	4M123548.D	05/03/24	13:04	01:33	Continuing cal 1
OP54242A-MB1	4M123552.D	05/03/24	14:46	03:15	Method Blank
ZZZZZZ	4M123553.D	05/03/24	15:09	03:38	(unrelated sample)
ZZZZZZ	4M123554.D	05/03/24	15:32	04:01	(unrelated sample)
ZZZZZZ	4M123555.D	05/03/24	15:54	04:23	(unrelated sample)
OP54242A-BS12	4M123560.D	05/03/24	16:17	04:46	Blank Spike
ZZZZZZ	4M123556.D	05/03/24	17:02	05:31	(unrelated sample)
ZZZZZZ	4M123557.D	05/03/24	17:25	05:54	(unrelated sample)
JD87379-5	4M123558.D	05/03/24	17:47	06:16	(used for QC only; not part of job JD87833R)
ZZZZZZ	4M123559.D	05/03/24	18:10	06:39	(unrelated sample)
ZZZZZZ	4M123571.D	05/03/24	18:32	07:01	(unrelated sample)
OP54242A-MSA	4M123562.D	05/03/24	18:54	07:23	Matrix Spike
OP54242A-MSDA	4M123563.D	05/03/24	19:17	07:46	Matrix Spike Duplicate

Internal Standard Area Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	E3H82-CC73	**Injection Date:**	06/01/24
Lab File ID:	3H1171.D	**Injection Time:**	02:04
Instrument ID:	GCMS3H	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	11055	6.17	12645	7.50	23380	10.20	20665	14.35
Upper Limit [a]	22110	6.67	25290	8.00	46760	10.70	41330	14.85
Lower Limit [b]	5528	5.67	6323	7.00	11690	9.70	10333	13.85

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP54985A-MB2	10003	6.16	11587	7.49	22044	10.19	19132	14.33
ZZZZZZ	9592	6.16	11220	7.49	21329	10.19	18470	14.33
OP55022A-MB2	9790	6.16	11414	7.49	21686	10.19	18974	14.33
OP55022A-BS122	8172	6.16	9457	7.49	17722	10.19	15468	14.33
OP55107A-MB1	9159	6.16	10718	7.49	20097	10.19	17528	14.33
OP55107A-BS12	9269	6.16	9529	7.48	7186*	10.18	13*	14.33
OP55107A-BSD129	9457	6.16	10941	7.48	20599	10.18	17708	14.33
OP55107A-LB51	8365	6.16	9738	7.49	18348	10.19	15583	14.33
OP55022A-MSA	9419	6.16	10814	7.49	20275	10.19	17211	14.33
OP55022A-MSDA	9577	6.16	11022	7.49	20562	10.19	17323	14.33
JD87833-4R [d]	8173	6.16	9493	7.49	17709	10.19	15327	14.33
JD87833-6R [d]	9346	6.16	10857	7.49	20111	10.19	17172	14.33
ZZZZZZ	8256	6.16	9524	7.49	17816	10.19	15318	14.33
ZZZZZZ	8736	6.16	10302	7.48	19339	10.18	16283	14.33
ZZZZZZ	8456	6.16	10071	7.48	19149	10.18	16028	14.33
ZZZZZZ	9235	6.16	10801	7.49	20067	10.19	17087	14.33

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Blank spike outside control limits due to analytical error. Since Blank spike duplicate recovery within control limits, data are qualified and reported.
(d) Sample extracted outside the holding time. Sample reextarcted due to QC recovery for targets and surrogates were outside control limits.

Internal Standard Area Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	E4M5826-CC5801	**Injection Date:**	05/28/24
Lab File ID:	4M124144.D	**Injection Time:**	08:55
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	39944	7.10	45051	8.58	79122	10.70	60309	13.40
Upper Limit [a]	79888	7.60	90102	9.08	158244	11.20	120618	13.90
Lower Limit [b]	19972	6.60	22526	8.08	39561	10.20	30155	12.90

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP54962A-MB1	28630	7.10	33550	8.58	61139	10.70	47063	13.40
OP54962A-LB45	32106	7.10	36598	8.58	63742	10.70	50495	13.40
OP54962A-BS12	33656	7.10	38104	8.58	64812	10.70	47649	13.39
OP54962A-BSD12	33141	7.10	38613	8.58	66037	10.70	46614	13.39
JD87833-4R [c]	29249	7.10	34198	8.58	61629	10.70	48051	13.40
JD87833-5R	30679	7.10	35840	8.58	65142	10.70	50810	13.39
JD87833-6R [c]	30394	7.10	35477	8.58	60220	10.70	16375[d]	13.40
OP54838A-MB1	33749	7.10	36339	8.58	56708	10.70	35120	13.40
ZZZZZZ	30020	7.10	36082	8.58	62664	10.70	47927	13.40
ZZZZZZ	26291	7.11	31103	8.58	54136	10.70	41228	13.40
ZZZZZZ	31267	7.10	37305	8.58	68163	10.70	54395	13.39
ZZZZZZ	33167	7.10	40137	8.58	76157	10.70	58654	13.39
ZZZZZZ	31344	7.10	38871	8.58	73154	10.70	54853	13.40
ZZZZZZ	29937	7.10	36507	8.58	65551	10.70	51714	13.40
ZZZZZZ	30411	7.10	36195	8.58	68217	10.70	50233	13.40
ZZZZZZ	31695	7.10	38863	8.58	70876	10.70	51991	13.40
ZZZZZZ	30073	7.10	36129	8.58	66671	10.70	51225	13.40
ZZZZZZ	28633	7.10	34540	8.58	64055	10.70	46829	13.40
ZZZZZZ	29516	7.10	34306	8.58	63335	10.70	50783	13.39
ZZZZZZ	28620	7.10	34643	8.58	63423	10.70	49008	13.39
ZZZZZZ	31024	7.10	36240	8.58	65913	10.70	54716	13.39
ZZZZZZ	35937	7.10	43071	8.58	80108	10.70	62607	13.39
ZZZZZZ	32089	7.10	38691	8.58	70512	10.70	55132	13.39
ZZZZZZ	31938	7.10	37933	8.58	69349	10.70	54862	13.39
ZZZZZZ	32149	7.10	37400	8.58	70360	10.70	54648	13.39
ZZZZZZ	31340	7.10	35847	8.58	63788	10.70	49373	13.39
ZZZZZZ	31616	7.10	36739	8.58	68837	10.70	52854	13.39
ZZZZZZ	25879	7.10	29801	8.58	54036	10.70	44102	13.39
ZZZZZZ	30266	7.10	34253	8.58	64773	10.70	51149	13.39
ZZZZZZ	29172	7.10	33495	8.58	60335	10.70	49664	13.39

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

Internal Standard Area Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	E4M5826-CC5801	**Injection Date:**	05/28/24
Lab File ID:	4M124144.D	**Injection Time:**	08:55
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

Lab	IS 1		IS 2		IS 3		IS 4	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Rx due to BS/BSD outside QC control limits bais low. Confirmation run.
(d) Outside control limits.

Surrogate Recovery Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8270E BY SIM **Matrix:** LEACHATE

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JD87833-4R	3H1183.D	89	67	73
JD87833-4R	4M124151.D	11* [a]	16* [a]	14
JD87833-5R	4M124152.D	44	37	33
JD87833-6R	3H1184.D	107	81	74
JD87833-6R	4M124153.D	43	41	22
OP54962A-BS12	4M124149.D	39	36	16
OP54962A-BSD12	4M124150.D	40	36	14
OP54962A-LB45	4M124148.D	40	33	25
OP54962A-MB1	4M124147.D	34	32	22
OP55107A-BS12	3H1178.D	86	62	156* [a]
OP55107A-BSD12	3H1179.D	85	58	92
OP55107A-LB51	3H1180.D	99	69	99
OP55107A-MB1	3H1177.D	109	73	103

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	18-119%
S2 = 2-Fluorobiphenyl	18-104%
S3 = Terphenyl-d14	13-109%

(a) Outside of in house control limits.

Initial Calibration Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H73-ICC73
Lab FileID: 3H1014.D

Response Factor Report GCMS3H

Method : C:\msdchem\1\METHODS\M3H73SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Wed May 29 16:40:24 2024
Response via : Initial Calibration

Calibration Files
0.05=3H1017.D .2 =3H1019.D 2.5 =3H1021.D .02 =3H1016.D
.1 =3H1018.D 1 =3H1014.D .01 =3H1015.D .5 =3H1020.D
5 =3H1022.D = = =

Compound	0.05	.2	2.5	.02	.1	1	.01	.5	5	Avg	%RSD
1) I 1-Methylnaphthalene-d ----------ISTD----------											
2) 2-Fluorophenol	0.407	0.406	0.426	0.409	0.408	0.417	0.460	0.407	0.468	0.423	5.67
3) Phenol-d5	0.432	0.444	0.498	0.432	0.441	0.470	0.485	0.466	0.572	0.471	9.42
4) Phenol	0.493	0.511	0.528	0.488	0.498	0.533	0.558	0.541	0.593	0.527	6.50
5) bis(2-Chloroethyl)ether										0.000#	-1.00
6) Nitrobenzene-d5	0.327	0.331	0.410	0.333	0.329	0.389	0.378	0.356	0.477	0.370	13.57
7) Naphthalene	1.424	1.435	1.393	1.429	1.488	1.399	1.610	1.465	1.498	1.460	4.58
8) Hexachlorobutadiene	0.272	0.277	0.269	0.305	0.278	0.282	0.296	0.282	0.284	0.283	4.00
9) 2-Methylnaphthalene	1.029	1.025	1.007	1.060	1.033	1.023	1.150	1.043	1.065	1.048	4.02
11) 2-Fluorobiphenyl	1.205	1.186	1.283	1.209	1.190	1.245	1.352	1.246	1.419	1.259	6.32
12) I Fluorene-d10 ----------ISTD----------											
13) Acenaphthylene	1.420	1.381	1.405	1.444	1.394	1.401	1.565	1.422	1.468	1.433	3.91
14) Acenaphthene	0.991	0.986	0.990	1.014	0.977	0.984	1.114	1.000	1.029	1.010	4.18
15) Dibenzofuran										0.000#	-1.00
16) Fluorene	1.095	1.112	1.083	1.168	1.060	1.092	1.264	1.099	1.119	1.121	5.45
17) 2,4,6-Tribromophenol	0.083	0.084	0.124	0.087	0.081	0.115	0.090	0.095		0.095	16.83
18) Hexachlorobenzene	0.343	0.334	0.329	0.353	0.343	0.346	0.391	0.342	0.340	0.347	5.20
19) Pentachlorophenol	0.077	0.085	0.128		0.078	0.125		0.097	0.154	0.106	27.83
---- Quadratic regression ---- Coefficient = 0.9987											
Response Ratio = -0.00306 + 0.10725 *A + 0.00746 *A^2											
20) Phenanthrene	1.548	1.474	1.462	1.537	1.418	1.498	1.836	1.488	1.513	1.530	7.91
21) Anthracene	1.346	1.370	1.443	1.383	1.335	1.446	1.505	1.411	1.521	1.418	4.67

Initial Calibration Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H73-ICC73
Lab FileID: 3H1014.D

```
22) I   Fluoranthene-d10      ----------------ISTD---------------------
23)  Fluoranthene
          0.904 0.861 0.905 0.907 0.878 0.909 1.031 0.899 0.952        0.916    5.43
24)  Pyrene
          0.918 0.875 0.910 0.898 0.894 0.917 0.998 0.908 0.958        0.920    4.02
25)  Terphenyl-d14
          0.655 0.673 0.804 0.651 0.656 0.755 0.687 0.731 0.901        0.724   11.70
26)  Benzo[a]anthracene
          0.691 0.682 0.763 0.691 0.672 0.845 0.812 0.706 0.819        0.742    9.16
27)  Chrysene
          0.719 0.735 0.832 0.725 0.712 0.853 0.778 0.772 0.875        0.778    7.92

28) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
29)  Benzo[b]fluoranthene
          0.904 0.854 0.987 0.895 0.876 0.981 0.974 0.885 1.009        0.930    6.20
30)  Benzo[k]fluoranthene
          0.847 0.867 0.970 0.823 0.823 0.964 0.974 0.915 1.085        0.919    9.55
31)  Benzo[a]pyrene
          0.967 0.971 1.010 0.990 0.969 0.985 1.136 0.985 1.063        1.008    5.58
32)  Indeno[1,2,3-cd]pyrene
          0.928 0.894 1.055 1.002 0.908 1.025 1.205 0.937 1.155        1.012   10.90
33)  Dibenz[a,h]anthracene
          0.550 0.601 0.740 0.609 0.577 0.722 0.765 0.646 0.823        0.670   14.18
34)  Benzo[g,h,i]perylene
          0.775 0.797 0.908 0.776 0.786 0.880 0.858 0.837 0.986        0.845    8.45

35) I   1-Methylnaphthalene-d ----------------ISTD---------------------
36)  1,4-Dioxane
          0.162 0.171 0.167 0.161 0.171 0.169       0.178 0.173        0.169    3.35
37)  1-Methylnaphthalene
          0.997 0.972 0.965 0.995 0.986 0.967 1.117 0.995 1.003        1.000    4.62

38) I   Fluorene-d10a         ----------------ISTD---------------------
39)  4,6-dinitro-2-methylphenol
               0.030 0.043       0.023 0.041       0.033 0.052        0.037#  28.47
           ---- Quadratic regression ----  Coefficient =  0.9994
             Response Ratio = -0.00175 + 0.03617 *A + 0.00257 *A^2

--------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

         M3H73SIM.M        Wed May 29 16:51:54 2024
```

Initial Calibration Verification

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H73-ICV73
Lab FileID: 3H1023.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e3h73\3H1023.D Vial: 11
Acq On : 18 May 2024 5:22 am Operator: rocquans
Sample : icv73-1 Inst : GCMS3H
Misc : op54679a,e3h73,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3H73SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Wed May 29 16:40:24 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	88	0.00	6.17
7	t	Naphthalene	1.460	1.662	-13.8	104	0.00	5.61
8	t	Hexachlorobutadiene	0.283	0.314	-11.0	98	0.00	5.70
9	t	2-Methylnaphthalene	1.048	1.120	-6.9	96	0.00	6.12
12	I	Fluorene-d10	1.000	1.000	0.0	88	0.00	7.49
13	t	Acenaphthylene	1.433	1.513	-5.6	95	0.00	6.86
14	t	Acenaphthene	1.010	1.042	-3.2	93	0.00	7.02
16	t	Fluorene	1.121	1.130	-0.8	91	0.00	7.52
18	t	Hexachlorobenzene	0.347	0.363	-4.6	92	0.00	8.12

			AvgRF	CCRF	% Dev			
20	t	Phenanthrene	1.530	1.520	0.7	89	0.00	8.61
21	t	Anthracene	1.418	1.464	-3.2	89	0.00	8.67
22	I	Fluoranthene-d10	1.000	1.000	0.0	81	0.00	10.19
23	t	Fluoranthene	0.916	0.944	-3.1	84	0.00	10.22
24	t	Pyrene	0.920	0.934	-1.5	82	0.00	10.53
26	t	Benzo[a]anthracene	0.742	0.729	1.8	70	0.00	12.35
27	t	Chrysene	0.778	0.792	-1.8	75	0.00	12.41
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	72	0.00	14.33
29	t	Benzo[b]fluoranthene	0.930	0.967	-4.0	71	0.00	13.92
30	t	Benzo[k]fluoranthene	0.919	1.090	-18.6	81	0.00	13.97
31	t	Benzo[a]pyrene	1.008	1.013	-0.5	74	0.00	14.36
32	t	Indeno[1,2,3-cd]pyrene	1.012	1.083	-7.0	76	0.00	15.79
33	t	Dibenz[a,h]anthracene	0.670	0.739	-10.3	73	0.00	15.84
34	t	Benzo[g,h,i]perylene	0.845	0.941	-11.4	77	0.00	16.14
35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	88	0.00	6.17
37	t	1-Methylnaphthalene	1.000	1.060	-6.0	96	0.00	6.20

Initial Calibration Verification

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H73-ICV73
Lab FileID: 3H1023.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3H1014.D M3H73SIM.M Wed May 29 16:48:12 2024

Initial Calibration Verification

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H73-ICV73
Lab FileID: 3H1024.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e3h73\3H1024.D Vial: 12
Acq On : 18 May 2024 5:46 am Operator: rocquans
Sample : icv73-1 Inst : GCMS3H
Misc : op54679a,e3h73,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3H73SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Wed May 29 16:40:24 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
35 I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	81	0.00	6.17
36 t	1,4-Dioxane	0.169	0.188	-11.2	90	0.00	2.78

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3H1014.D M3H73SIM.M Wed May 29 16:49:49 2024

Initial Calibration Verification

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H73-ICV73
Lab FileID: 3H1025.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e3h73\3H1025.D Vial: 13
Acq On : 18 May 2024 6:11 am Operator: rocquans
Sample : icv73-5 Inst : GCMS3H
Misc : op54679a,e3h73,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3H73SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Wed May 29 16:40:24 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	81	0.00	6.17
4	t	Phenol	0.527	0.580	-10.1	88	0.00	4.46
12	I	Fluorene-d10	1.000	1.000	0.0	79	0.00	7.49
		----------	True	Calc.	% Drift	----------		
19	t	Pentachlorophenol	5.000	5.120	-2.4	74	0.00	8.35
38	I	Fluorene-d10a	1.000	1.000	0.0	79	0.00	7.49
		----------	True	Calc.	% Drift	----------		
39	t	4,6-dinitro-2-methylpheno	5.000	6.011	-20.2	91	0.00	7.57

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3H1014.D M3H73SIM.M Wed May 29 16:51:36 2024

Continuing Calibration Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H82-CC73
Lab FileID: 3H1171.D

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\altheam\e3h82\3H1171.d Vial: 2
Acq On : 1 Jun 2024 2:04 am Operator: rocquans
Sample : cc73-1 Inst : GCMS3H
Misc : op53776a,e3h82,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...ethod\M3H73SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Mon Jun 03 07:13:29 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	86	0.00	6.17
2	S	2-Fluorophenol	0.423	0.432	-2.1	89	0.00	3.85
3	S	Phenol-d5	0.471	0.518	-10.0	95	0.00	4.46
4	t	Phenol	0.527	0.555	-5.3	89	0.00	4.47
6	S	Nitrobenzene-d5	0.370	0.452	-22.2#	100	0.00	5.10
7	t	Naphthalene	1.460	1.399	4.2	86	0.00	5.61
8	t	Hexachlorobutadiene	0.283	0.281	0.7	85	0.00	5.70
9	t	2-Methylnaphthalene	1.048	1.007	3.9	84	0.00	6.12
11	S	2-Fluorobiphenyl	1.259	1.234	2.0	85	0.00	6.41
12	I	Fluorene-d10	1.000	1.000	0.0	92	0.00	7.50
13	t	Acenaphthylene	1.433	1.338	6.6	88	0.00	6.86
14	t	Acenaphthene	1.010	0.942	6.7	88	0.00	7.02
16	t	Fluorene	1.121	1.051	6.2	88	0.00	7.53
17	S	2,4,6-Tribromophenol	0.095	0.174	-83.2#	139	0.00	7.78
18	t	Hexachlorobenzene	0.347	0.365	-5.2	97	0.00	8.12
		----------	True	Calc.	% Drift	----------		
19	t	Pentachlorophenol	5.000	8.147	-62.9#	145	0.00	8.36
		----------	AvgRF	CCRF	% Dev	----------		
20	t	Phenanthrene	1.530	1.504	1.7	92	0.00	8.62
21	t	Anthracene	1.418	1.500	-5.8	95	0.00	8.68
22	I	Fluoranthene-d10	1.000	1.000	0.0	94	0.00	10.20
23	t	Fluoranthene	0.916	0.913	0.3	94	0.00	10.23
24	t	Pyrene	0.920	0.950	-3.3	97	0.00	10.54
25	S	Terphenyl-d14	0.724	0.771	-6.5	96	0.00	10.84
26	t	Benzo[a]anthracene	0.742	0.875	-17.9	97	0.00	12.37
27	t	Chrysene	0.778	0.874	-12.3	96	0.00	12.42
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	107	0.00	14.35
29	t	Benzo[b]fluoranthene	0.930	1.021	-9.8	112	0.00	13.94
30	t	Benzo[k]fluoranthene	0.919	0.957	-4.1	107	0.00	13.98
31	t	Benzo[a]pyrene	1.008	0.994	1.4	108	0.00	14.38
32	t	Indeno[1,2,3-cd]pyrene	1.012	1.254	-23.9#	131	0.00	15.81
33	t	Dibenz[a,h]anthracene	0.670	0.893	-33.3#	133	0.00	15.85
34	t	Benzo[g,h,i]perylene	0.845	0.986	-16.7	120	0.00	16.16
35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	86	0.00	6.17
36	t	1,4-Dioxane	0.169	0.166	1.8	84	0.00	2.77
37	t	1-Methylnaphthalene	1.000	0.960	4.0	85	0.00	6.20

Continuing Calibration Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H82-CC73
Lab FileID: 3H1171.D

38	I	Fluorene-d10a	1.000	1.000	0.0	92	0.00	7.50
			True	Calc.	% Drift			
39	t	4,6-dinitro-2-methylpheno	5.000	12.587	-151.7#	249	0.00	7.58

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3H1171.d M3H73SIM.M Mon Jun 03 07:13:39 2024

Initial Calibration Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E4M5801-ICC5801
Lab FileID: 4M123523.D

Response Factor Report GCMS4M

Method : C:\msdchem\1\methods\M4M5801SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Fri May 03 09:14:28 2024
Response via : Initial Calibration

Calibration Files
0.05=4m123526.D .2 =4m123528.D 2.5 =4m123531.D .02 =4m123525.D
.1 =4m123532.D 1 =4m123523.D .01 =4m123530.D .5 =4m123529.D
5 =4m123533.D = = =

Compound	0.05	.2	2.5	.02	.1	1	.01	.5	5	Avg	%RSD
1) I 1-Methylnaphthalene-d ----------ISTD----------											
2) 1,4-Dioxane	0.205	0.199	0.228	0.190	0.231	0.212		0.220	0.221	0.213	6.83
3) 2-Fluorophenol	0.530	0.531	0.502	0.539	0.556	0.513	0.680	0.548	0.501	0.544	9.98
4) Phenol-d5	0.677	0.656	0.615	0.675	0.696	0.642	0.863	0.664	0.607	0.677	11.16
5) Phenol	0.753	0.749	0.696	0.762	0.805	0.718	1.008	0.750	0.696	0.771	12.36
6) bis(2-Chloroethyl)ether										0.000#	-1.00
7) Nitrobenzene-d5	0.501	0.509	0.549	0.490	0.543	0.529	0.624	0.550	0.560	0.539	7.41
8) Naphthalene	1.918	1.896	1.919	1.955	1.946	1.858	2.500	1.929	1.940	1.985	9.85
9) Hexachlorobutadiene	0.331	0.322	0.318	0.344	0.335	0.320	0.451	0.329	0.338	0.343	12.07
10) 2-Methylnaphthalene	1.254	1.225	1.197	1.303	1.224	1.199	1.598	1.204	1.219	1.269	10.06
11) 1-Methylnaphthalene	1.152	1.129	1.080	1.126	1.122	1.096	1.469	1.104	1.107	1.154	10.40
12) Hexachlorocyclopentadiene										0.000#	-1.00
13) 2-Fluorobiphenyl	1.302	1.273	1.066	1.332	1.309	1.140		1.241	1.017	1.210	9.92
14) I Fluorene-d10 ----------ISTD----------											
15) Acenaphthylene	1.458	1.384	1.418	1.507	1.438	1.425	1.849	1.420	1.457	1.484	9.51
16) Acenaphthene	1.022	0.996	0.973	1.066	1.005	0.998	1.265	0.992	1.067	1.043	8.59
17) Dibenzofuran										0.000#	-1.00
18) Fluorene	1.119	1.087	1.066	1.090	1.045	1.144	1.382	1.079	1.094	1.123	9.01
19) 2,4,6-Tribromophenol	0.072	0.116		0.078	0.093		0.081	0.141		0.097	27.45
---- Quadratic regression ---- Coefficient = 0.9995											
Response Ratio = -0.00976 + 0.08530 *A + 0.00226 *A^2											
20) Hexachlorobenzene	0.330	0.305	0.306	0.318	0.338	0.307	0.418	0.307	0.309	0.327	11.14
21) Pentachlorophenol	0.075	0.077	0.121		0.086	0.088		0.092	0.147	0.098	26.82

Initial Calibration Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E4M5801-ICC5801
Lab FileID: 4M123523.D

```
            ---- Quadratic regression ----  Coefficient =  0.9989
              Response Ratio = -0.00084 + 0.08502 *A + 0.01004 *A^2

22)  Phenanthrene
           1.653 1.549 1.570 1.716 1.620 1.647       1.597 1.582        1.617    3.34
23)  Anthracene
           1.632 1.579 1.598 1.607 1.587 1.674 2.112 1.589 1.626        1.667   10.16

24) I   Fluoranthene-d10      ----------------ISTD----------------------
25)  Fluoranthene
           1.113 1.069 1.058 1.174 1.127 1.069 1.449 1.093 1.074        1.136   10.82
26)  Pyrene
           1.146 1.063 1.088 1.199 1.081 1.101       1.110 1.122        1.114    3.85
27)  Terphenyl-d14
           0.600 0.584 0.486 0.610 0.589 0.540 0.762 0.571 0.469        0.579   14.65
28)  Benzo[a]anthracene
           0.920 0.881 0.907 0.965 0.873 0.957 1.207 0.915 0.949        0.953   10.56
29)  Chrysene
           0.917 0.906 0.925 0.960 0.883 0.950 1.161 0.909 0.946        0.951    8.70

30) I   Benzo(a)pyrene-d12    ----------------ISTD----------------------
31)  Benzo[b]fluoranthene
           1.205 1.128 1.115 1.228 1.053 1.167 1.465 1.141 1.162        1.185    9.86
32)  Benzo[k]fluoranthene
           1.129 1.127 1.139 1.143 1.164 1.205 1.498 1.154 1.172        1.192    9.82
33)  Benzo[a]pyrene
           1.203 1.159 1.121 1.306 1.185 1.153 1.539 1.169 1.155        1.221   10.66
34)  Indeno[1,2,3-cd]pyrene
           1.267 1.220 1.224 1.322 1.215 1.271 1.572 1.230 1.264        1.287    8.71
35)  Dibenz[a,h]anthracene
           0.986 0.951 0.984 0.921 0.932 1.019 1.202 0.972 1.002        0.997    8.35
36)  Benzo[g,h,i]perylene
           1.048 0.996 0.973 1.131 0.987 1.027 1.416 0.978 1.016        1.063   13.24

37) I   Fluorene-d10a         ----------------ISTD----------------------
38)  4,6-dinitro-2-methylphenol
           0.031 0.031 0.047       0.033 0.032       0.035 0.063        0.039#  31.50
            ---- Quadratic regression ----  Coefficient =  0.9993
              Response Ratio = 0.00026 + 0.02832 *A + 0.00565 *A^2

--------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M4M5801SIM.M        Fri May 03 09:17:37 2024
```

Initial Calibration Verification

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E4M5801-ICV5801
Lab FileID: 4M123534.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\E4M5801\4m123534.D Vial: 11
Acq On : 2 May 2024 11:19 pm Operator: rocquans
Sample : icv5801-1 Inst : GCMS4M
Misc : op53071a,e4m5801,250,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\methods\M4M5801SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Fri May 03 08:59:32 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	86	0.00	7.14
8	t	Naphthalene	1.985	2.136	-7.6	99	0.00	6.40
9	t	Hexachlorobutadiene	0.343	0.364	-6.1	97	0.00	6.54
10	t	2-Methylnaphthalene	1.269	1.289	-1.6	92	0.00	7.08
11	t	1-Methylnaphthalene	1.154	1.170	-1.4	92	0.00	7.18
14	I	Fluorene-d10	1.000	1.000	0.0	87	0.00	8.62
15	t	Acenaphthylene	1.484	1.556	-4.9	95	0.00	7.96
16	t	Acenaphthene	1.043	1.057	-1.3	92	0.00	8.13
18	t	Fluorene	1.123	1.136	-1.2	86	0.00	8.64
20	t	Hexachlorobenzene	0.327	0.352	-7.6	99	0.00	9.18

			AvgRF	CCRF	% Dev			
22	t	Phenanthrene	1.617	1.700	-5.1	90	0.00	9.58
23	t	Anthracene	1.667	1.715	-2.9	89	0.00	9.63
24	I	Fluoranthene-d10	1.000	1.000	0.0	86	0.00	10.74
25	t	Fluoranthene	1.136	1.131	0.4	91	0.00	10.76
26	t	Pyrene	1.114	1.128	-1.3	89	0.00	10.98
28	t	Benzo[a]anthracene	0.953	0.883	7.3	80	0.00	12.16
29	t	Chrysene	0.951	0.957	-0.6	87	0.00	12.20
30	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	82	0.00	13.44
31	t	Benzo[b]fluoranthene	1.185	1.182	0.3	83	0.00	13.16
32	t	Benzo[k]fluoranthene	1.192	1.302	-9.2	89	0.00	13.19
33	t	Benzo[a]pyrene	1.221	1.192	2.4	85	0.00	13.46
34	t	Indeno[1,2,3-cd]pyrene	1.287	1.302	-1.2	84	-0.01	14.65
35	t	Dibenz[a,h]anthracene	0.997	1.038	-4.1	84	-0.01	14.68
36	t	Benzo[g,h,i]perylene	1.063	1.055	0.8	85	0.00	14.98
37	I	Fluorene-d10a	1.000	1.000	0.0	87	0.00	8.62

Initial Calibration Verification

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E4M5801-ICV5801
Lab FileID: 4M123534.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 4m123523.D M4M5801SIM.M       Fri May 03 09:07:22 2024
```

Initial Calibration Verification

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E4M5801-ICV5801
Lab FileID: 4M123535.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\E4M5801\4m123535.D Vial: 12
Acq On : 2 May 2024 11:42 pm Operator: rocquans
Sample : icv5801-1 Inst : GCMS4M
Misc : op53071a,e4m5801,250,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\methods\M4M5801SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Fri May 03 08:59:32 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1-Methylnaphthalene-d10	1.000	1.000	0.0	82	0.00	7.14
2 t	1,4-Dioxane	0.213	0.226	-6.1	88	0.00	2.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m123523.D M4M5801SIM.M Fri May 03 09:09:53 2024

Initial Calibration Verification

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E4M5801-ICV5801
Lab FileID: 4M123536.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\E4M5801\4m123536.D Vial: 13
Acq On : 3 May 2024 12:04 am Operator: rocquans
Sample : icv5801-5 Inst : GCMS4M
Misc : op53071a,e4m5801,250,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\methods\M4M5801SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Fri May 03 09:20:07 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	79	0.00	7.14
5	t	Phenol	0.771	0.879	-14.0	97	0.00	4.85
14	I	Fluorene-d10	1.000	1.000	0.0	80	0.00	8.61
		----------	True	Calc.	% Drift		----------	
21	t	Pentachlorophenol	5.000	6.387	-27.7	117	0.00	9.37

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m123523.D M4M5801SIM.M Fri May 03 09:21:59 2024

Initial Calibration Verification

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E4M5802-ICV5801
Lab FileID: 4M123547.D

Evaluate Continuing Calibration Report

Data File : X:\Dayton\MSSEMI\Com...rM\e4M5802\4m123547.d Vial: 3
Acq On : 3 May 2024 12:24 pm Operator: ninap
Sample : icv5801-5 Inst : GCMS4M
Misc : op54175a,e4m5802,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton\MSSEMI...ods\M4M5801SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Fri May 03 10:21:27 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
37 I	Fluorene-d10a	1.000	1.000	0.0	103	0.00	8.62
	----------	True	Calc.	% Drift	----------		
38 t	4,6-dinitro-2-methylpheno	5.000	5.734	-14.7	134	0.00	8.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m123523.D M4M5801SIM.M Wed May 15 09:24:45 2024

Continuing Calibration Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E4M5826-CC5801
Lab FileID: 4M124144.D

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...as\e4m5826\4m124144.d Vial: 2
Acq On : 28 May 2024 8:55 am Operator: karimam
Sample : cc5801-1 Inst : GCMS4M
Misc : op54175a,e4m5826,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...ODS\M4M5801SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Fri May 24 17:12:56 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	116	-0.04	7.10
2	t	1,4-Dioxane	0.213	0.209	1.9	114	-0.11	2.55
3	S	2-Fluorophenol	0.544	0.492	9.6	111	-0.05	3.97
4	S	Phenol-d5	0.677	0.557	17.7	101	-0.01	4.82
5	t	Phenol	0.771	0.624	19.1	101	-0.01	4.84
7	S	Nitrobenzene-d5	0.539	0.540	-0.2	118	-0.04	5.66
8	t	Naphthalene	1.985	1.665	16.1	104	-0.04	6.36
9	t	Hexachlorobutadiene	0.343	0.330	3.8	120	-0.04	6.49
10	t	2-Methylnaphthalene	1.269	1.159	8.7	112	-0.04	7.04
11	t	1-Methylnaphthalene	1.154	1.103	4.4	117	-0.03	7.14
13	S	2-Fluorobiphenyl	1.210	1.082	10.6	110	-0.04	7.41
14	I	Fluorene-d10	1.000	1.000	0.0	105	-0.04	8.58
15	t	Acenaphthylene	1.484	1.553	-4.6	114	-0.03	7.93
16	t	Acenaphthene	1.043	1.060	-1.6	111	-0.04	8.10
18	t	Fluorene	1.123	1.159	-3.2	106	-0.03	8.61
		----------	True	Calc.	% Drift		----------	
19	S	2,4,6-Tribromophenol	20.000	35.601	-78.0#	209	-0.03	8.85
		----------	AvgRF	CCRF	% Dev		----------	
20	t	Hexachlorobenzene	0.327	0.368	-12.5	125	-0.03	9.15
		----------	True	Calc.	% Drift		----------	
21	t	Pentachlorophenol	5.000	7.852	-57.0#	194	-0.02	9.35
		----------	AvgRF	CCRF	% Dev		----------	
22	t	Phenanthrene	1.617	1.586	1.9	101	-0.04	9.54
23	t	Anthracene	1.667	1.791	-7.4	112	-0.04	9.59
24	I	Fluoranthene-d10	1.000	1.000	0.0	108	-0.04	10.70
25	t	Fluoranthene	1.136	1.080	4.9	109	-0.04	10.72
26	t	Pyrene	1.114	1.176	-5.6	116	-0.04	10.94
27	S	Terphenyl-d14	0.579	0.510	11.9	102	-0.05	11.11
28	t	Benzo[a]anthracene	0.953	0.965	-1.3	109	-0.04	12.12
29	t	Chrysene	0.951	1.049	-10.3	119	-0.04	12.16
30	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	116	-0.05	13.40
31	t	Benzo[b]fluoranthene	1.185	1.241	-4.7	124	-0.05	13.12

Continuing Calibration Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E4M5826-CC5801
Lab FileID: 4M124144.D

32	t	Benzo[k]fluoranthene	1.192	1.268	-6.4	122	-0.04	13.15
33	t	Benzo[a]pyrene	1.221	1.204	1.4	121	-0.05	13.42
34	t	Indeno[1,2,3-cd]pyrene	1.287	1.438	-11.7	132	-0.07	14.59
35	t	Dibenz[a,h]anthracene	0.997	1.197	-20.1#	137	-0.07	14.61
36	t	Benzo[g,h,i]perylene	1.063	1.160	-9.1	131	-0.07	14.91
37	I	Fluorene-d10a	1.000	1.000	0.0	105	-0.04	8.58
			True	Calc.	% Drift			
38	t	4,6-dinitro-2-methylpheno	5.000	6.619	-32.4#	162	-0.02	8.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m123523.D M4M5801SIM.M Tue May 28 18:29:47 2024

6.7.11

6

Run Sequence Report

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: E3H73 **Method:** SW846 8270E BY SIM **Instrument ID:** GCMS3H

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E3H73-DFTPP	3H1013A.D	05/18/24 01:16	n/a	DFTPP Tune
E3H73-ICC73	3H1014.D	05/18/24 01:40	n/a	Initial cal 1
E3H73-IC73	3H1015.D	05/18/24 02:04	n/a	Initial cal 0.01
E3H73-IC73	3H1016.D	05/18/24 02:29	n/a	Initial cal 0.02
E3H73-IC73	3H1017.D	05/18/24 02:54	n/a	Initial cal 0.05
E3H73-IC73	3H1018.D	05/18/24 03:19	n/a	Initial cal 0.1
E3H73-IC73	3H1019.D	05/18/24 03:43	n/a	Initial cal 0.2
E3H73-IC73	3H1020.D	05/18/24 04:08	n/a	Initial cal 0.5
E3H73-IC73	3H1021.D	05/18/24 04:32	n/a	Initial cal 2.5
E3H73-IC73	3H1022.D	05/18/24 04:57	n/a	Initial cal 5
E3H73-ICV73	3H1023.D	05/18/24 05:22	n/a	Initial cal verification 1
E3H73-ICV73	3H1024.D	05/18/24 05:46	n/a	Initial cal verification 1
E3H73-ICV73	3H1025.D	05/18/24 06:11	n/a	Initial cal verification 5

Run Sequence Report

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: E3H82 **Method:** SW846 8270E BY SIM **Instrument ID:** GCMS3H

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E3H82-DFTPP	3H1170.D	06/01/24 01:52	n/a	DFTPP Tune
E3H82-CC73	3H1171.D	06/01/24 02:04	n/a	Continuing cal 1
OP54985A-MB2	3H1173.D	06/01/24 03:43	OP54985A	Method Blank
ZZZZZZ	3H1174.D	06/01/24 04:08	OP54985A	(unrelated sample)
OP55022A-MB2	3H1175.D	06/01/24 04:32	OP55022A	Method Blank
OP55022A-BS122	3H1176.D	06/01/24 04:56	OP55022A	Blank Spike
OP55107A-MB1	3H1177.D	06/01/24 05:21	OP55107A	Method Blank
OP55107A-BS12	3H1178.D	06/01/24 05:45	OP55107A	Blank Spike
OP55107A-BSD12	3H1179.D	06/01/24 06:10	OP55107A	Blank Spike Duplicate
OP55107A-LB51	3H1180.D	06/01/24 06:34	OP55107A	Leachate Blank
OP55022A-MSA	3H1181.D	06/01/24 06:58	OP55022A	Matrix Spike
OP55022A-MSDA	3H1182.D	06/01/24 07:23	OP55022A	Matrix Spike Duplicate
JD87833-4R	3H1183.D	06/01/24 07:47	OP55107A	SB-4
JD87833-6R	3H1184.D	06/01/24 08:12	OP55107A	SB-6
ZZZZZZ	3H1186.D	06/01/24 09:01	OP55107A	(unrelated sample)
ZZZZZZ	3H1187.D	06/01/24 09:25	OP55107A	(unrelated sample)
ZZZZZZ	3H1188.D	06/01/24 09:49	OP55107A	(unrelated sample)
ZZZZZZ	3H1189.D	06/01/24 10:14	OP55107A	(unrelated sample)

Run Sequence Report

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: E4M5801 **Method:** SW846 8270E BY SIM **Instrument ID:** GCMS4M

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E4M5801-DFTPP	4M123522.D	05/02/24 18:42	n/a	DFTPP Tune
E4M5801-ICC5801	4M123523.D	05/02/24 18:57	n/a	Initial cal 1
E4M5801-IC5801	4M123525.D	05/02/24 19:43	n/a	Initial cal 0.02
E4M5801-IC5801	4M123526.D	05/02/24 20:06	n/a	Initial cal 0.05
E4M5801-IC5801	4M123528.D	05/02/24 20:52	n/a	Initial cal 0.2
E4M5801-IC5801	4M123529.D	05/02/24 21:15	n/a	Initial cal 0.5
E4M5801-IC5801	4M123530.D	05/02/24 21:42	n/a	Initial cal 0.01
E4M5801-IC5801	4M123531.D	05/02/24 22:04	n/a	Initial cal 2.5
E4M5801-IC5801	4M123532.D	05/02/24 22:27	n/a	Initial cal 0.1
E4M5801-IC5801	4M123533.D	05/02/24 22:50	n/a	Initial cal 5
E4M5801-ICV5801	4M123534.D	05/02/24 23:19	n/a	Initial cal verification 1
E4M5801-ICV5801	4M123535.D	05/02/24 23:42	n/a	Initial cal verification 1
E4M5801-ICV5801	4M123536.D	05/03/24 00:04	n/a	Initial cal verification 5
OP54175A-MB1	4M123537.D	05/03/24 00:27	OP54175A	Method Blank
OP54175A-BS12	4M123538.D	05/03/24 00:50	OP54175A	Blank Spike
OP54175A-BSD12	4M123539.D	05/03/24 01:12	OP54175A	Blank Spike Duplicate
ZZZZZZ	4M123540.D	05/03/24 01:35	OP54175A	(unrelated sample)
ZZZZZZ	4M123541.D	05/03/24 01:58	OP54175A	(unrelated sample)
ZZZZZZ	4M123542.D	05/03/24 02:21	OP54175A	(unrelated sample)
ZZZZZZ	4M123543.D	05/03/24 02:43	OP54175A	(unrelated sample)
ZZZZZZ	4M123544.D	05/03/24 03:06	OP54175A	(unrelated sample)

Run Sequence Report

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: E4M5802 **Method:** SW846 8270E BY SIM **Instrument ID:** GCMS4M

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E4M5802-DFTPP	4M123545.D	05/03/24 11:31	n/a	DFTPP Tune
E4M5802-ICV5801	4M123547.D	05/03/24 12:24	n/a	Initial cal verification 5
E4M5802-CC5801	4M123548.D	05/03/24 13:04	n/a	Continuing cal 1
OP54242A-MB1	4M123552.D	05/03/24 14:46	OP54242A	Method Blank
ZZZZZZ	4M123553.D	05/03/24 15:09	OP54265A	(unrelated sample)
ZZZZZZ	4M123554.D	05/03/24 15:32	OP54242A	(unrelated sample)
ZZZZZZ	4M123555.D	05/03/24 15:54	OP54242A	(unrelated sample)
OP54242A-BS12	4M123560.D	05/03/24 16:17	OP54242A	Blank Spike
ZZZZZZ	4M123556.D	05/03/24 17:02	OP54242A	(unrelated sample)
ZZZZZZ	4M123557.D	05/03/24 17:25	OP54242A	(unrelated sample)
JD87379-5	4M123558.D	05/03/24 17:47	OP54242A	(used for QC only; not part of job JD87833R)
ZZZZZZ	4M123559.D	05/03/24 18:10	OP54242A	(unrelated sample)
ZZZZZZ	4M123571.D	05/03/24 18:32	OP54265A	(unrelated sample)
OP54242A-MSA	4M123562.D	05/03/24 18:54	OP54242A	Matrix Spike
OP54242A-MSDA	4M123563.D	05/03/24 19:17	OP54242A	Matrix Spike Duplicate

Run Sequence Report

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: E4M5826	**Method:** SW846 8270E BY SIM	**Instrument ID:** GCMS4M

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E4M5826-CC5801	4M124144.D	05/28/24 08:55	n/a	Continuing cal 1
OP54962A-MB1	4M124147.D	05/28/24 10:22	OP54962A	Method Blank
OP54962A-LB45	4M124148.D	05/28/24 10:44	OP54962A	Leachate Blank
OP54962A-BS12	4M124149.D	05/28/24 11:06	OP54962A	Blank Spike
OP54962A-BSD12	4M124150.D	05/28/24 11:29	OP54962A	Blank Spike Duplicate
JD87833-4R	4M124151.D	05/28/24 11:51	OP54962A	SB-4
JD87833-5R	4M124152.D	05/28/24 12:14	OP54962A	SB-5
JD87833-6R	4M124153.D	05/28/24 12:36	OP54962A	SB-6
OP54838A-MB1	4M124154.D	05/28/24 12:58	OP54838A	Method Blank
ZZZZZZ	4M124155.D	05/28/24 13:20	OP54828A	(unrelated sample)
ZZZZZZ	4M124156.D	05/28/24 13:43	OP54828A	(unrelated sample)
ZZZZZZ	4M124158.D	05/28/24 14:27	OP54838A	(unrelated sample)
ZZZZZZ	4M124159.D	05/28/24 14:49	OP54894A	(unrelated sample)
ZZZZZZ	4M124160.D	05/28/24 15:12	OP54894A	(unrelated sample)
ZZZZZZ	4M124161.D	05/28/24 15:34	OP54896A	(unrelated sample)
ZZZZZZ	4M124162.D	05/28/24 15:56	OP54896A	(unrelated sample)
ZZZZZZ	4M124163.D	05/28/24 16:19	OP54896A	(unrelated sample)
ZZZZZZ	4M124164.D	05/28/24 16:41	OP54896A	(unrelated sample)
ZZZZZZ	4M124165.D	05/28/24 17:04	OP54896A	(unrelated sample)
ZZZZZZ	4M124166.D	05/28/24 17:26	OP54838A	(unrelated sample)
ZZZZZZ	4M124168.D	05/28/24 18:10	OP54838A	(unrelated sample)
ZZZZZZ	4M124169.D	05/28/24 18:32	OP54894A	(unrelated sample)
ZZZZZZ	4M124170.D	05/28/24 18:54	OP54894A	(unrelated sample)
ZZZZZZ	4M124171.D	05/28/24 19:17	OP54894A	(unrelated sample)
ZZZZZZ	4M124172.D	05/28/24 19:39	OP54894A	(unrelated sample)
ZZZZZZ	4M124173.D	05/28/24 20:01	OP54894A	(unrelated sample)
ZZZZZZ	4M124174.D	05/28/24 20:24	OP54894A	(unrelated sample)
ZZZZZZ	4M124175.D	05/28/24 20:46	OP54894A	(unrelated sample)
ZZZZZZ	4M124176.D	05/28/24 21:08	OP54894A	(unrelated sample)
ZZZZZZ	4M124177.D	05/28/24 21:31	OP54894A	(unrelated sample)
ZZZZZZ	4M124178.D	05/28/24 21:53	OP54894A	(unrelated sample)

MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\altheam\e3h82\
Data File : 3H1183.d
Acq On : 1 Jun 2024 7:47 am
Operator : rocquans
Sample : jd87833-4r Inst : GCMS3H
Misc : op55107a,e3h82,500,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 03 07:53:03 2024
Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3H73SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jun 03 07:13:29 2024
Response via : Initial Calibration

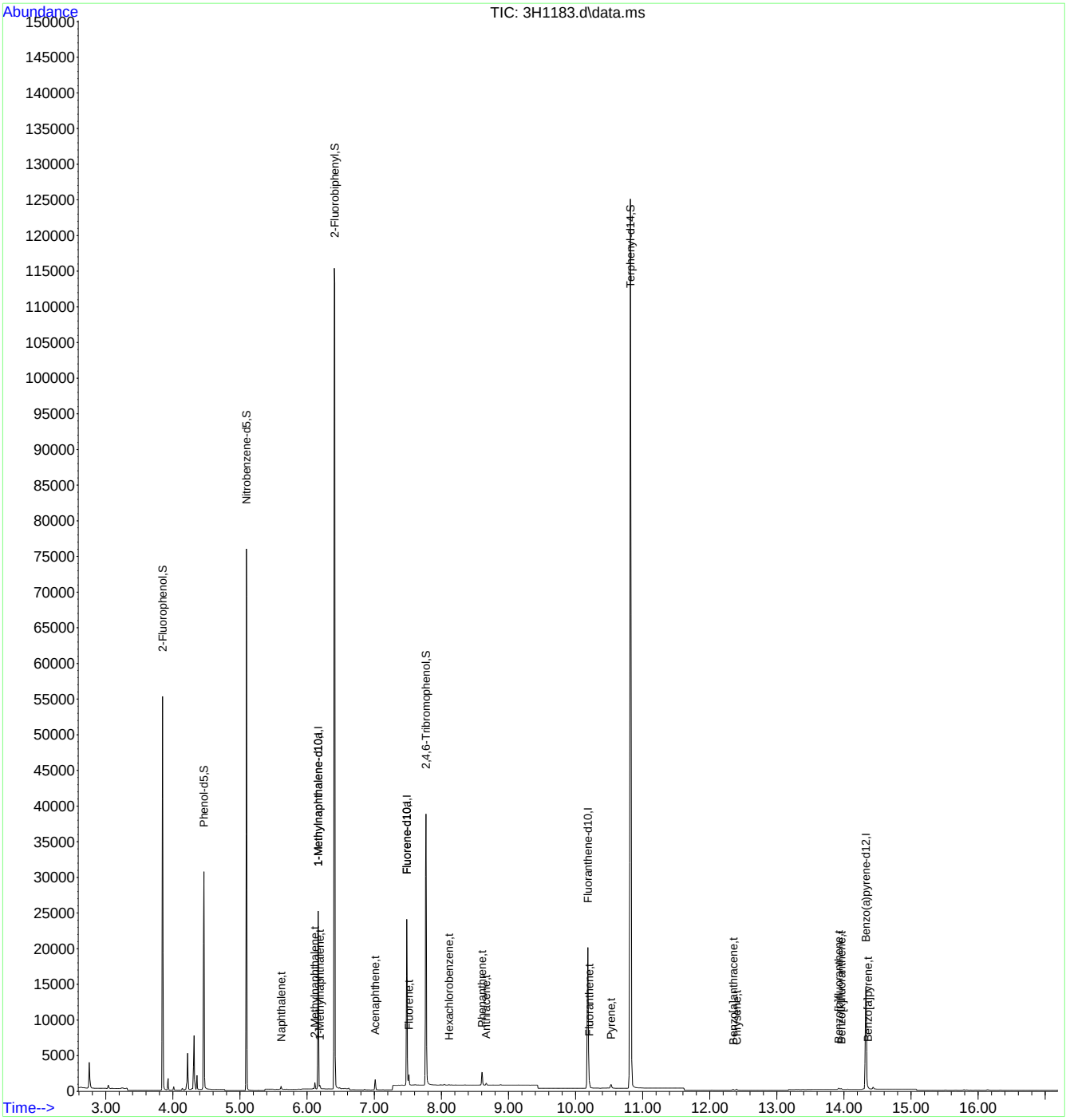
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.163	152	8173	4.00	ppm	0.00
12) Fluorene-d10	7.486	176	9493	4.00	ppm	-0.01
22) Fluoranthene-d10	10.185	212	17709	4.00	ppm	-0.01
28) Benzo(a)pyrene-d12	14.327	264	15327	4.00	ppm	-0.02
35) 1-Methylnaphthalene-d10a	6.163	152	8173	4.00	ppm	0.00
38) Fluorene-d10a	7.486	176	9493	4.00	ppm	-0.01
System Monitoring Compounds						
2) 2-Fluorophenol	3.847	112	22903	26.49	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 52.98%			
3) Phenol-d5	4.462	99	20642	21.45	ppm	0.00
Spiked Amount 50.000			Recovery = 42.90%			
6) Nitrobenzene-d5	5.094	82	33470	44.28	ppm	0.00
Spiked Amount 50.000			Recovery = 88.56%			
11) 2-Fluorobiphenyl	6.412	172	86478	33.60	ppm	0.00
Spiked Amount 50.000			Recovery = 67.20%			
17) 2,4,6-Tribromophenol	7.772	330	16325	72.63	ppm	-0.01
Spiked Amount 50.000			Recovery = 145.26%			
25) Terphenyl-d14	10.819	244	117512	36.68	ppm	-0.02
Spiked Amount 50.000			Recovery = 73.36%			
Target Compounds						Qvalue
7) Naphthalene	5.611	128	255	0.0855	ppm	94
9) 2-Methylnaphthalene	6.115	142	320	0.1494	ppm	81
14) Acenaphthene	7.016	153	506	0.2112	ppm	97
16) Fluorene	7.517	166	526	0.1976	ppm	100
18) Hexachlorobenzene	8.113	284	18	0.0219	ppm	86
20) Phenanthrene	8.608	178	1427	0.3929	ppm	99
21) Anthracene	8.669	178	215	0.0639	ppm	94
23) Fluoranthene	10.206	202	536	0.1321	ppm	95
24) Pyrene	10.533	202	407	0.1000	ppm	95
26) Benzo[a]anthracene	12.350	228	129	0.0393	ppm	99
27) Chrysene	12.403	228	143	0.0415	ppm	95
29) Benzo[b]fluoranthene	13.922	252	201	0.0564	ppm	97
30) Benzo[k]fluoranthene	13.960	252	92	0.0261	ppm	95
31) Benzo[a]pyrene	14.358	252	142	0.0368	ppm	100
37) 1-Methylnaphthalene	6.188	142	196	0.0960	ppm	88

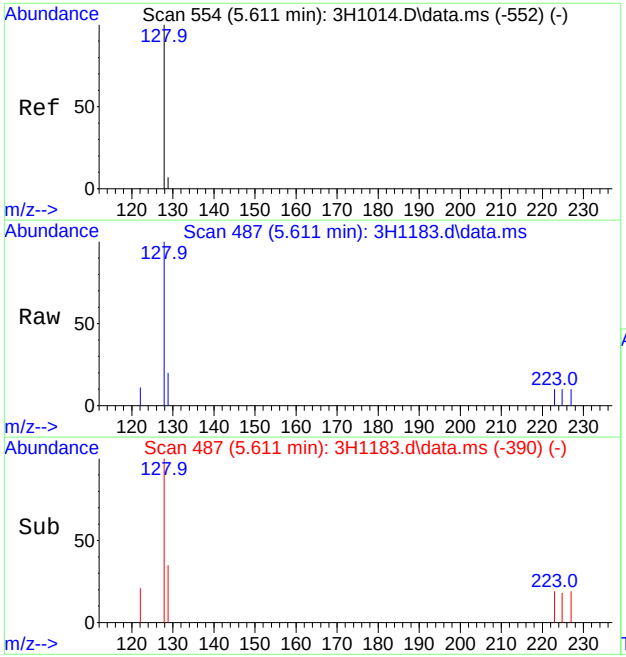
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\altheam\e3h82\
Data File : 3H1183.d
Acq On : 1 Jun 2024 7:47 am
Operator : rocquans
Sample : jd87833-4r Inst : GCMS3H
Misc : op55107a,e3h82,500,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 03 07:53:03 2024
Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3H73SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jun 03 07:13:29 2024
Response via : Initial Calibration

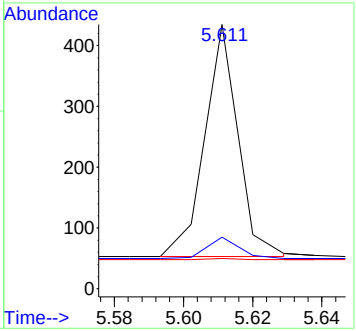


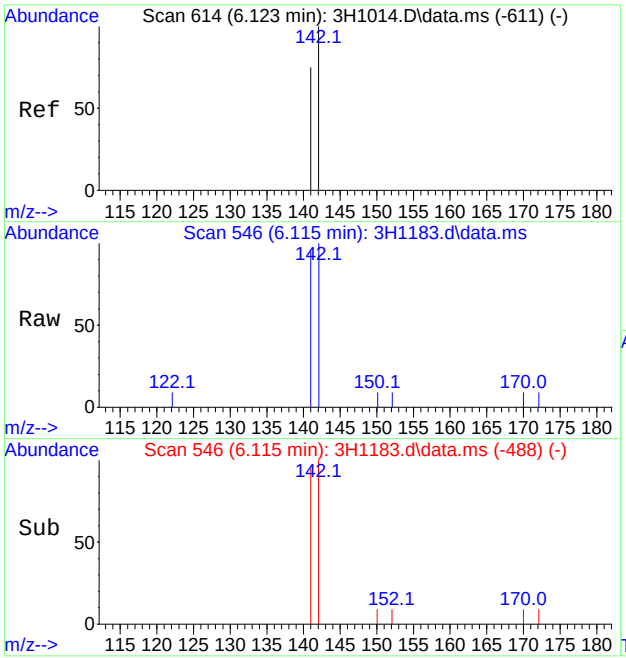


#7
Naphthalene
Concen: 0.0855 ppm
RT: 5.611 min Scan# 487
Delta R.T. -0.000 min
Lab File: 3H1183.d
Acq: 1 Jun 2024 7:47 am

Tgt Ion:128 Resp: 255

Ion	Ratio	Lower	Upper
128	100		
129	9.2	0.0	37.0
122	0.5	0.0	30.3

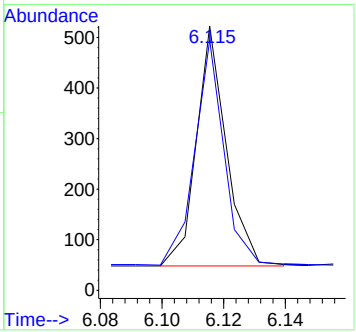


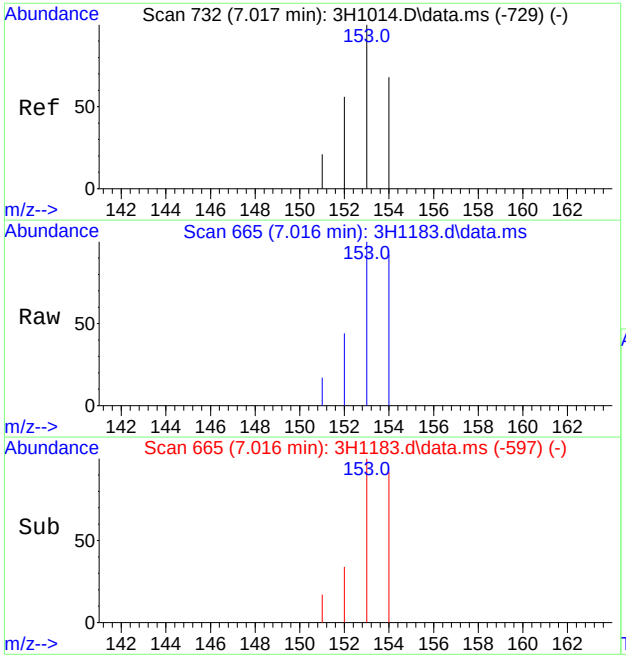


#9
2-Methylnaphthalene
Concen: 0.1494 ppm
RT: 6.115 min Scan# 546
Delta R.T. -0.008 min
Lab File: 3H1183.d
Acq: 1 Jun 2024 7:47 am

Tgt Ion:142 Resp: 320

Ion	Ratio	Lower	Upper
142	100		
141	93.8	47.6	107.6

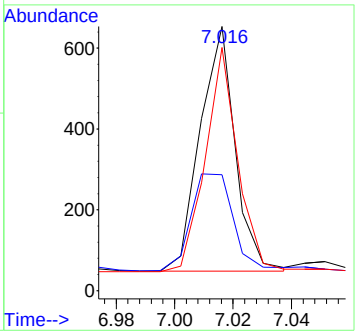


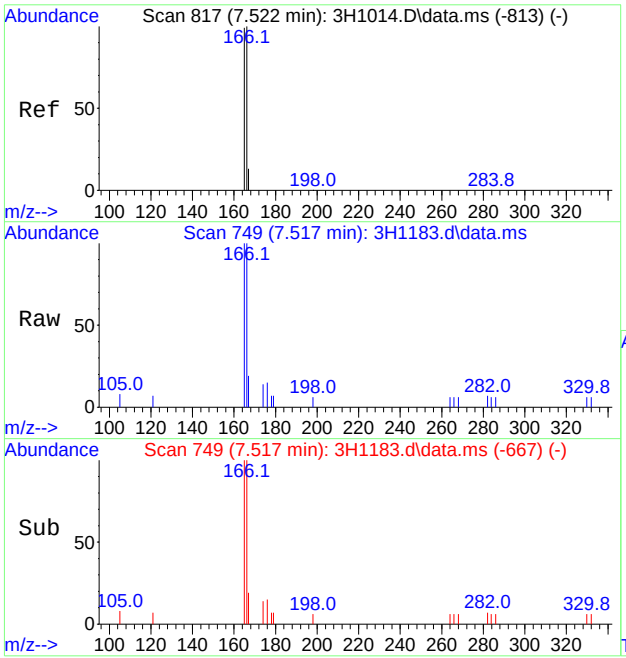


#14
Acenaphthene
Concen: 0.2112 ppm
RT: 7.016 min Scan# 665
Delta R.T. -0.007 min
Lab File: 3H1183.d
Acq: 1 Jun 2024 7:47 am

Tgt Ion:153 Resp: 506

Ion	Ratio	Lower	Upper
153	100		
152	38.8	9.3	69.3
154	91.8	58.4	118.4

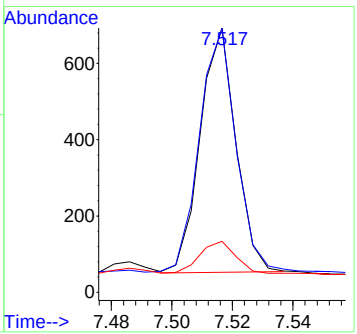


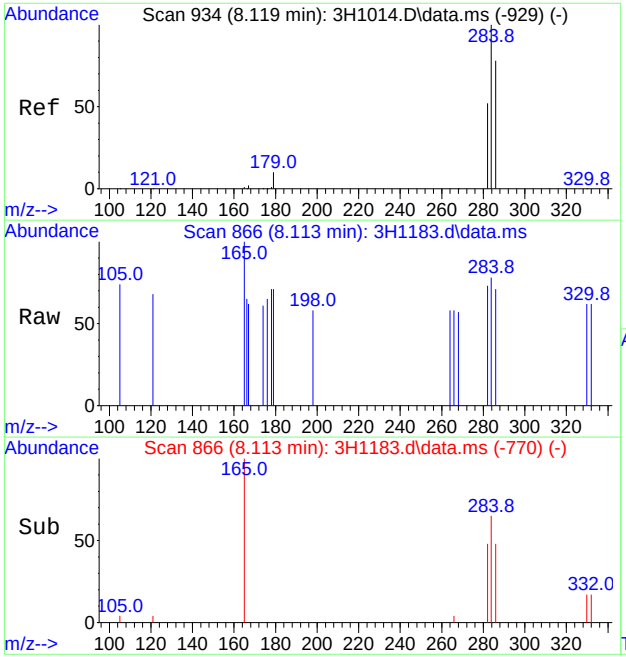


#16
Fluorene
Concen: 0.1976 ppm
RT: 7.517 min Scan# 749
Delta R.T. -0.010 min
Lab File: 3H1183.d
Acq: 1 Jun 2024 7:47 am

Tgt Ion:166 Resp: 526

Ion	Ratio	Lower	Upper
166	100		
165	99.4	69.5	129.5
167	13.1	0.0	43.0

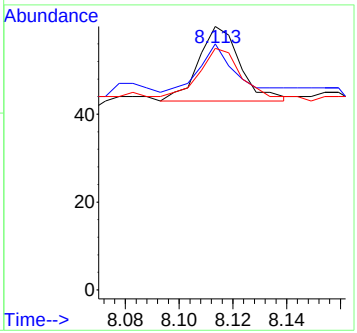


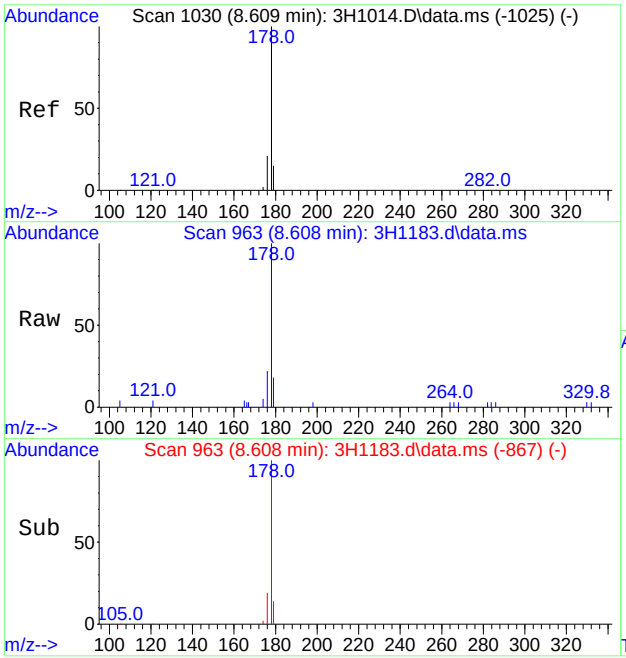


#18
Hexachlorobenzene
Concen: 0.0219 ppm
RT: 8.113 min Scan# 866
Delta R.T. -0.010 min
Lab File: 3H1183.d
Acq: 1 Jun 2024 7:47 am

Tgt Ion:284 Resp: 18

Ion	Ratio	Lower	Upper
284	100		
282	63.6	20.7	80.7
286	66.7	46.3	106.3

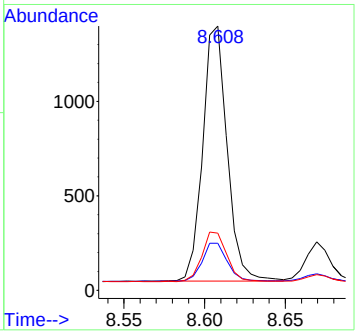


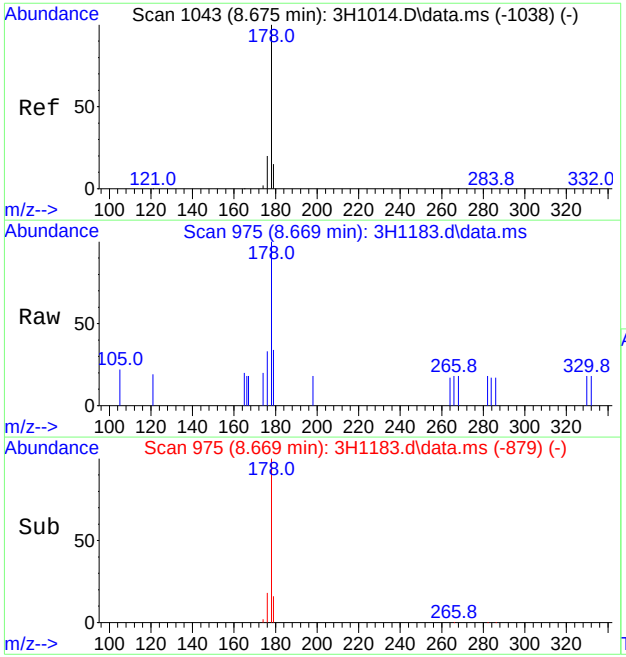


#20
Phenanthrene
Concen: 0.3929 ppm
RT: 8.608 min Scan# 963
Delta R.T. -0.010 min
Lab File: 3H1183.d
Acq: 1 Jun 2024 7:47 am

Tgt Ion:178 Resp: 1427

Ion	Ratio	Lower	Upper
178	100		
179	14.9	0.0	45.1
176	18.9	0.0	49.7

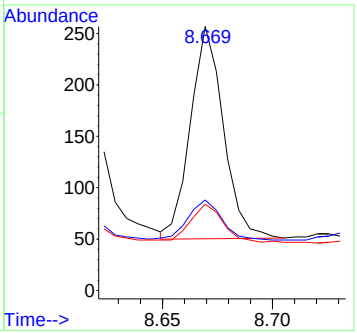


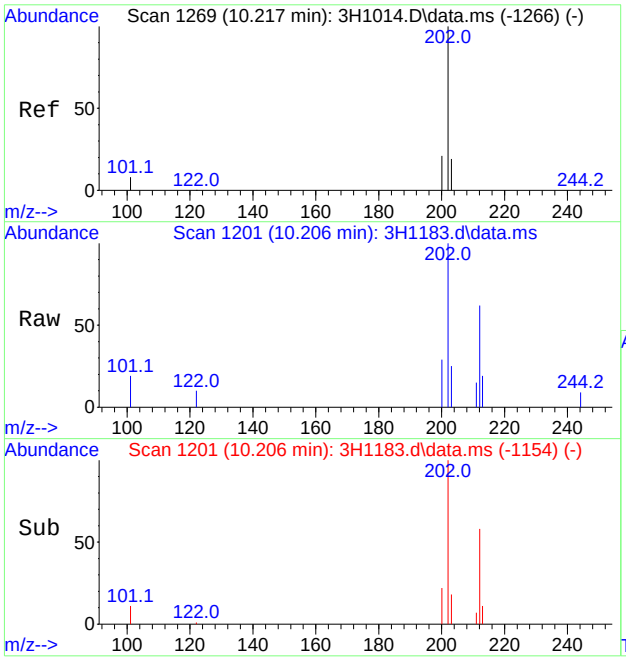


#21
Anthracene
Concen: 0.0639 ppm
RT: 8.669 min Scan# 975
Delta R.T. -0.010 min
Lab File: 3H1183.d
Acq: 1 Jun 2024 7:47 am

Tgt Ion:178 Resp: 215

Ion	Ratio	Lower	Upper
178	100		
179	18.7	0.0	45.1
176	17.7	0.0	49.4

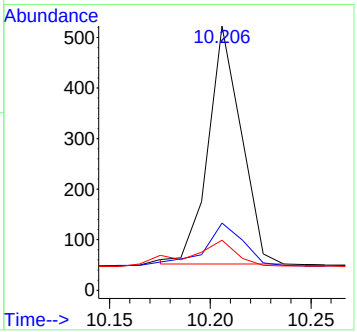


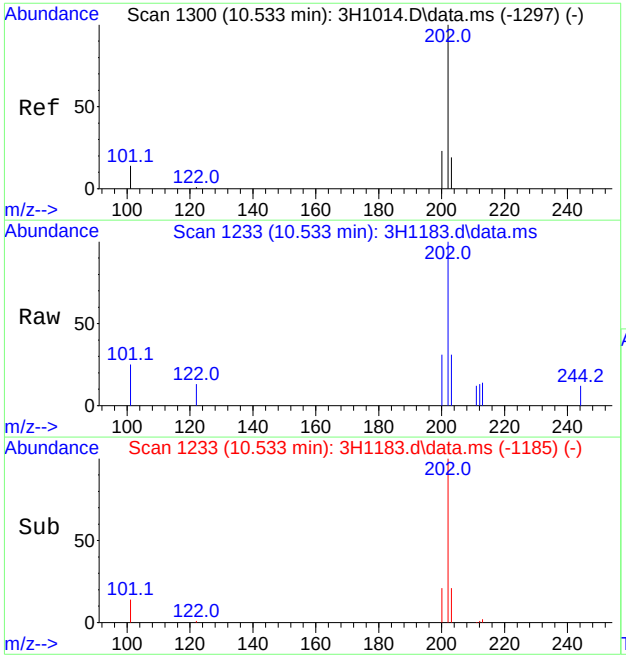


#23
Fluoranthene
Concen: 0.1321 ppm
RT: 10.206 min Scan# 1201
Delta R.T. -0.021 min
Lab File: 3H1183.d
Acq: 1 Jun 2024 7:47 am

Tgt Ion:202 Resp: 536

Ion	Ratio	Lower	Upper
202	100		
203	17.3	0.0	49.6
101	8.7	0.0	37.0

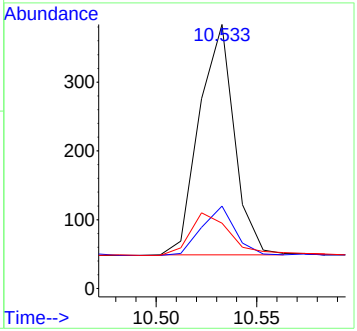


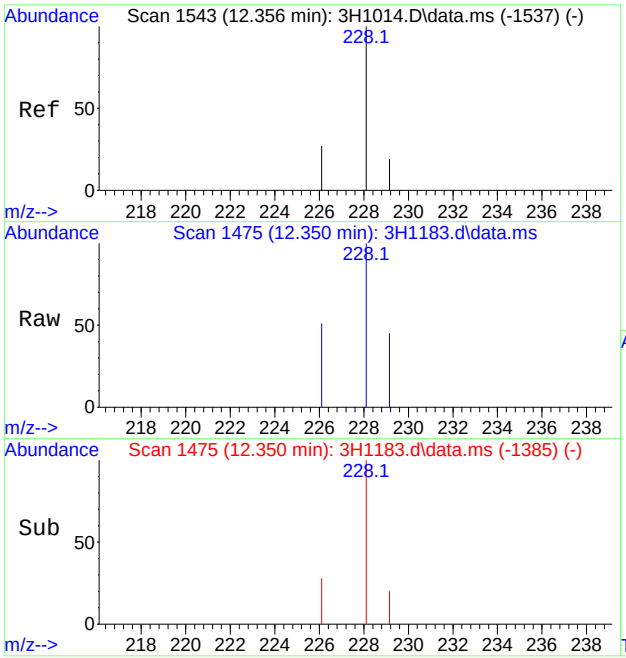


#24
Pyrene
Concen: 0.1000 ppm
RT: 10.533 min Scan# 1233
Delta R.T. -0.010 min
Lab File: 3H1183.d
Acq: 1 Jun 2024 7:47 am

Tgt Ion:202 Resp: 407

Ion	Ratio	Lower	Upper
202	100		
203	21.4	0.0	48.5
101	13.5	0.0	42.6

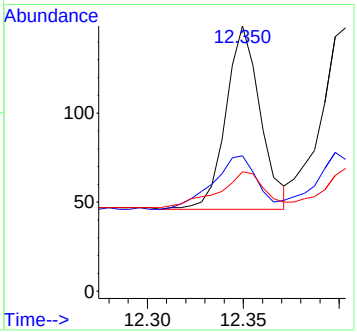


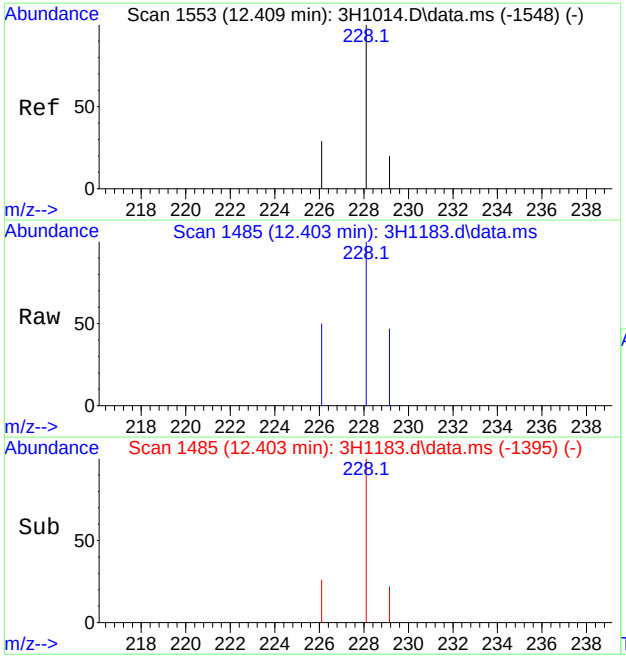


#26
Benzo[a]anthracene
Concen: 0.0393 ppm
RT: 12.350 min Scan# 1475
Delta R.T. -0.016 min
Lab File: 3H1183.d
Acq: 1 Jun 2024 7:47 am

Tgt Ion:228 Resp: 129

Ion	Ratio	Lower	Upper
228	100		
226	28.5	0.0	58.0
229	19.2	0.0	48.7

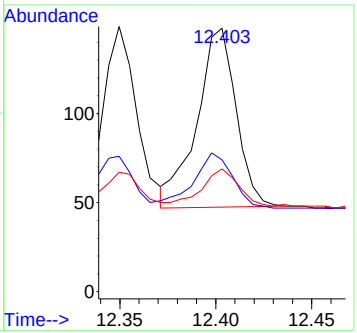


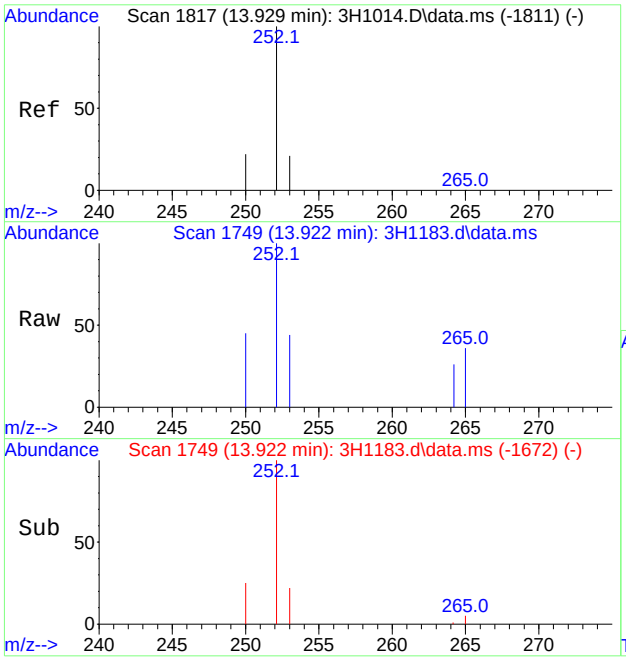


#27
Chrysene
Concen: 0.0415 ppm
RT: 12.403 min Scan# 1485
Delta R.T. -0.016 min
Lab File: 3H1183.d
Acq: 1 Jun 2024 7:47 am

Tgt Ion:228 Resp: 143

Ion	Ratio	Lower	Upper
228	100		
226	26.5	0.1	60.1
229	20.6	0.0	39.4

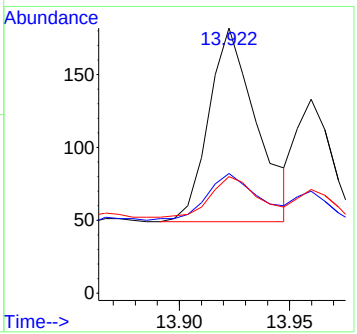


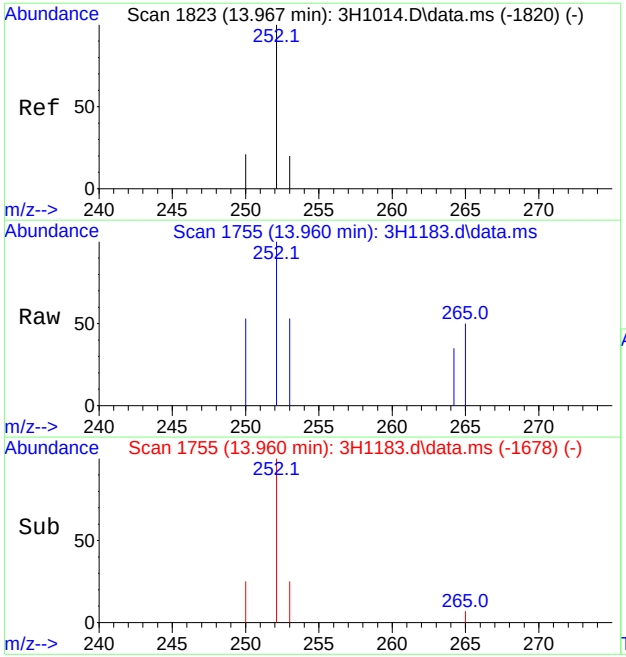


#29
Benzo[b]fluoranthene
Concen: 0.0564 ppm
RT: 13.922 min Scan# 1749
Delta R.T. -0.019 min
Lab File: 3H1183.d
Acq: 1 Jun 2024 7:47 am

Tgt Ion:252 Resp: 201

Ion	Ratio	Lower	Upper
252	100		
250	23.1	0.0	51.1
253	21.4	0.0	51.0

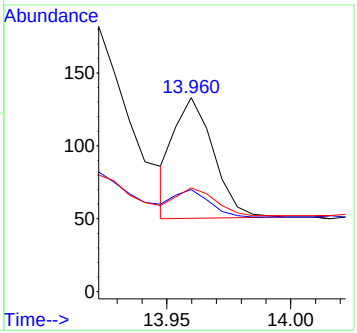


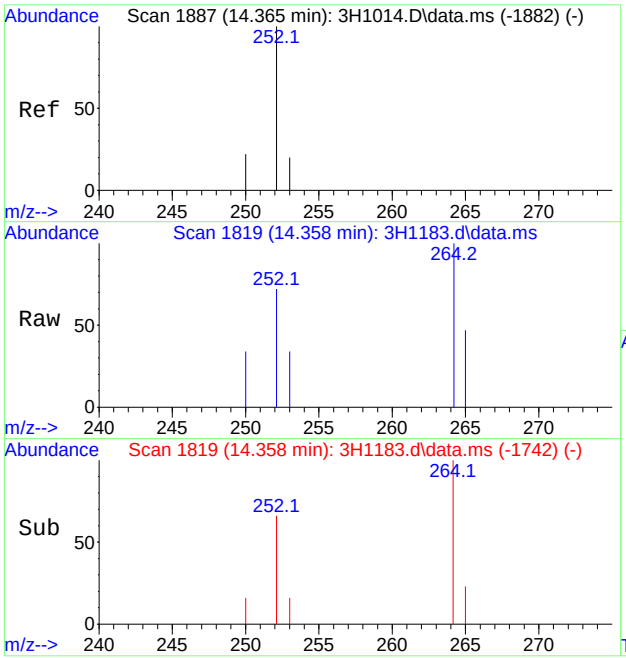


#30
Benzo[k]fluoranthene
Concen: 0.0261 ppm
RT: 13.960 min Scan# 1755
Delta R.T. -0.019 min
Lab File: 3H1183.d
Acq: 1 Jun 2024 7:47 am

Tgt Ion:252 Resp: 92

Ion	Ratio	Lower	Upper
252	100		
250	22.5	0.0	51.0
253	24.0	0.0	51.0

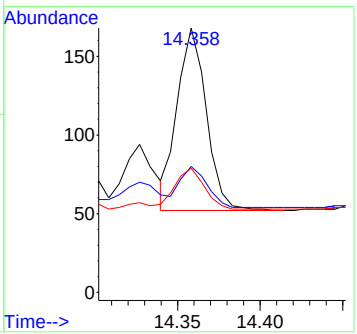


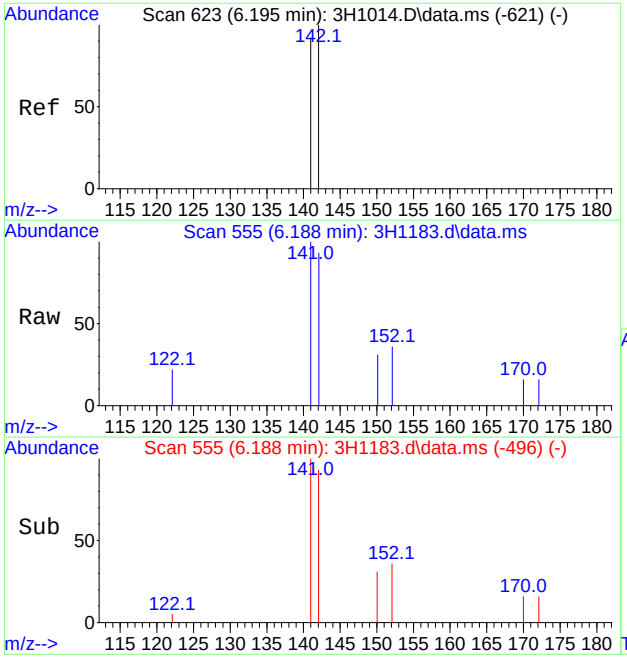


#31
Benzo[a]pyrene
Concen: 0.0368 ppm
RT: 14.358 min Scan# 1819
Delta R.T. -0.019 min
Lab File: 3H1183.d
Acq: 1 Jun 2024 7:47 am

Tgt Ion:252 Resp: 142

Ion	Ratio	Lower	Upper
252	100		
253	20.7	0.0	50.5
250	23.0	0.0	52.8

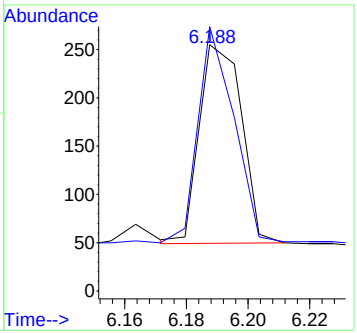




#37
1-Methylnaphthalene
Concen: 0.0960 ppm
RT: 6.188 min Scan# 555
Delta R.T. -0.008 min
Lab File: 3H1183.d
Acq: 1 Jun 2024 7:47 am

Tgt Ion:142 Resp: 196

Ion	Ratio	Lower	Upper
142	100		
141	109.8	77.9	117.9



7.1.1

7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\danielas\e4m5826\
Data File : 4m124151.d
Acq On : 28 May 2024 11:51 am
Operator : karimam
Sample : jd87833-4r Inst : GCMS4M
Misc : op54962a,e4m5826,500,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 20:12:19 2024
Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\M4M5801SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 28 18:33:01 2024
Response via : Initial Calibration

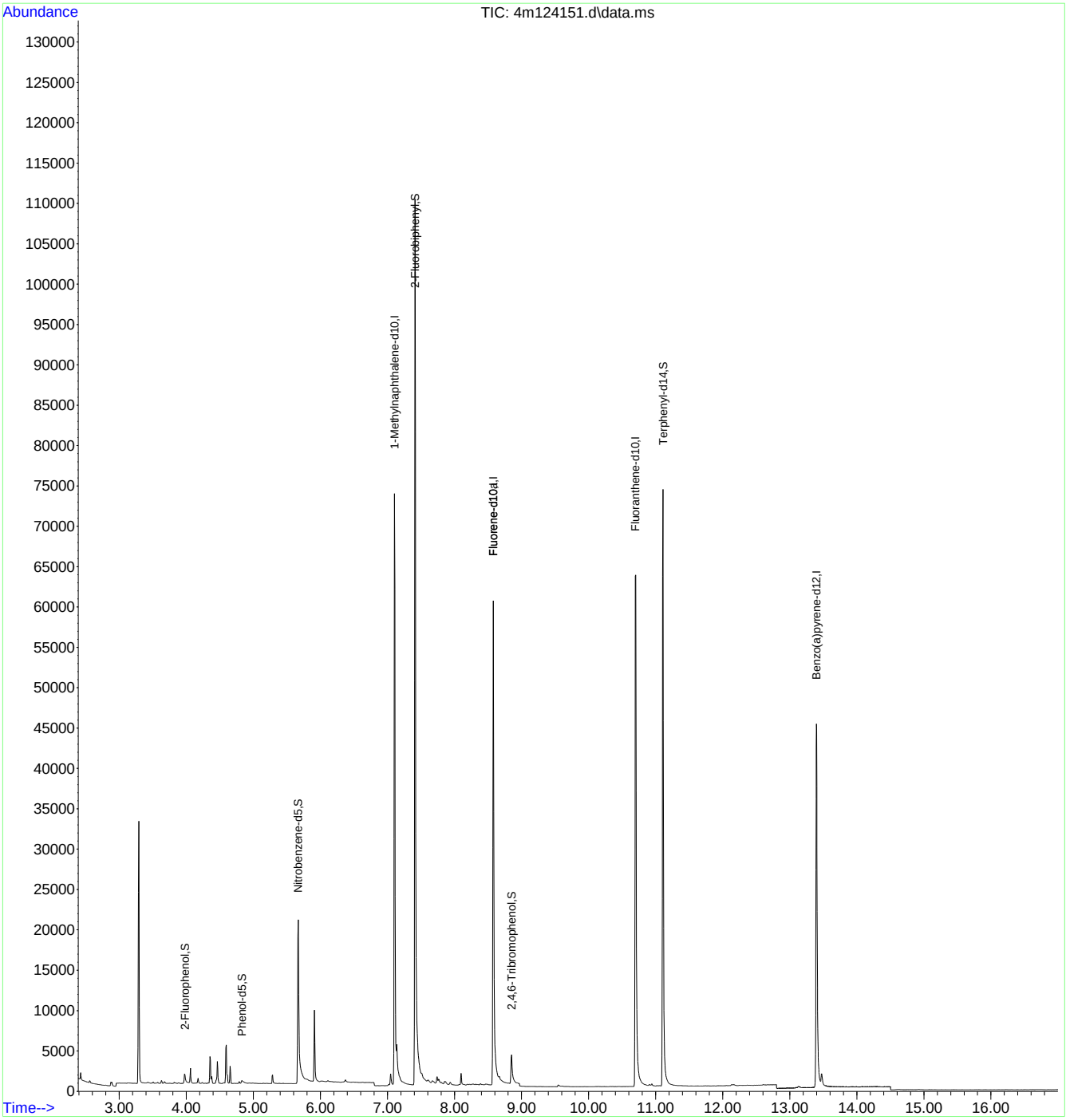
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.104	152	29249	4.00	ppm	0.00
14) Fluorene-d10	8.578	176	34198	4.00	ppm	0.00
24) Fluoranthene-d10	10.697	212	61629	4.00	ppm	0.00
30) Benzo(a)pyrene-d12	13.398	264	48051	4.00	ppm	0.00
37) Fluorene-d10a	8.578	176	34198	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	3.979	112	917	0.23	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.46%#		
4) Phenol-d5	4.830	99	550	0.11	ppm	0.00
Spiked Amount 50.000			Recovery =	0.22%		
7) Nitrobenzene-d5	5.663	82	21628	5.48	ppm	0.00
Spiked Amount 50.000			Recovery =	10.96%		
13) 2-Fluorobiphenyl	7.411	172	69823	7.89	ppm	0.00
Spiked Amount 50.000			Recovery =	15.78%		
19) 2,4,6-Tribromophenol	8.852	330	3345	4.89	ppm	0.00
Spiked Amount 50.000			Recovery =	9.78%		
27) Terphenyl-d14	11.109	244	60935	6.83	ppm	0.00
Spiked Amount 50.000			Recovery =	13.66%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\danielas\e4m5826\
Data File : 4m124151.d
Acq On : 28 May 2024 11:51 am
Operator : karimam
Sample : jd87833-4r Inst : GCMS4M
Misc : op54962a,e4m5826,500,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 20:12:19 2024
Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\M4M5801SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 28 18:33:01 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\danielas\e4m5826\
Data File : 4m124152.d
Acq On : 28 May 2024 12:14 pm
Operator : karimam
Sample : jd87833-5r Inst : GCMS4M
Misc : op54962a,e4m5826,500,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 18:50:04 2024
Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\M4M5801SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 28 18:33:01 2024
Response via : Initial Calibration

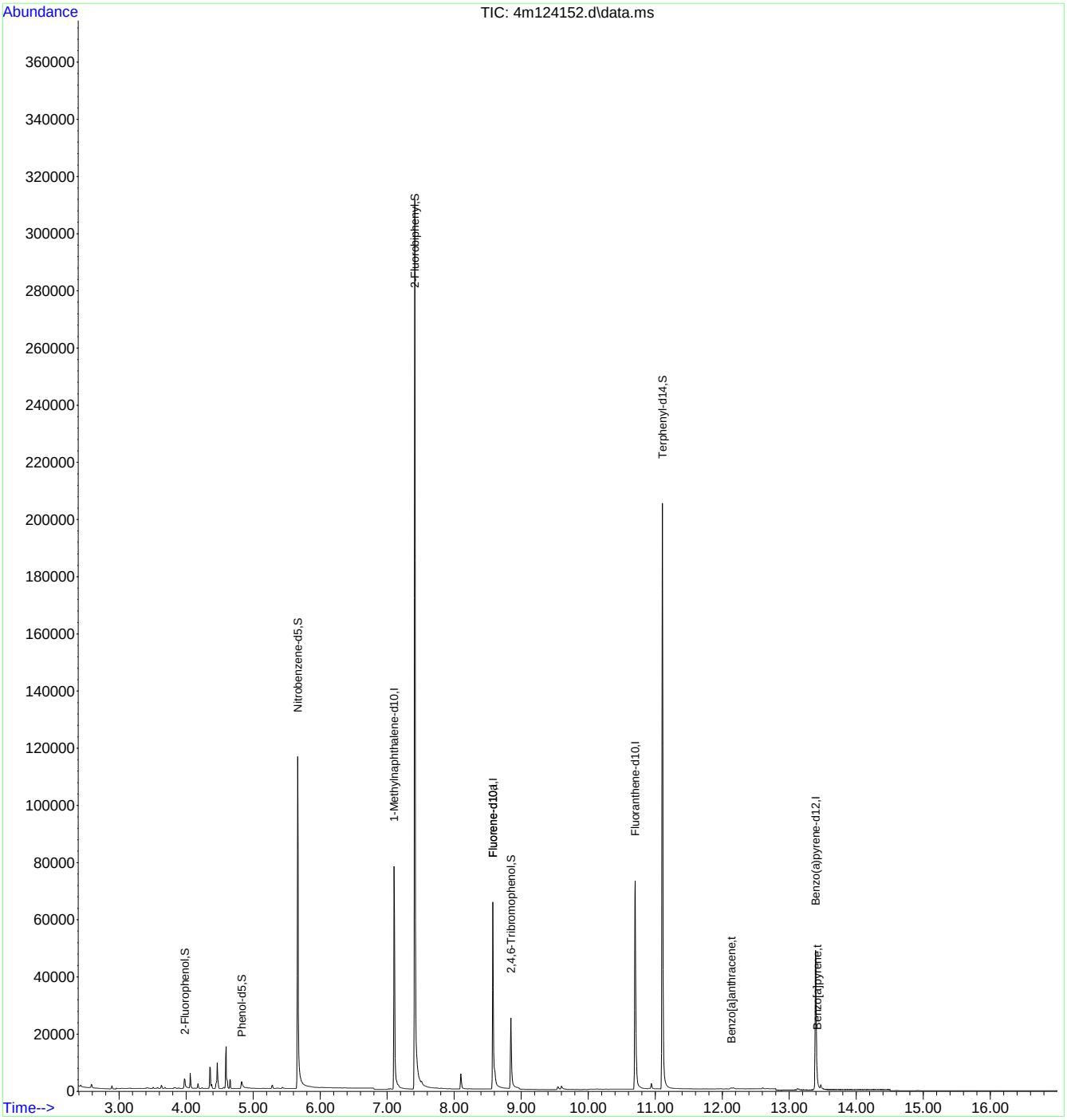
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.103	152	30679	4.00	ppm	0.00
14) Fluorene-d10	8.578	176	35840	4.00	ppm	0.00
24) Fluoranthene-d10	10.702	212	65142	4.00	ppm	0.00
30) Benzo(a)pyrene-d12	13.393	264	50810	4.00	ppm	0.00
37) Fluorene-d10a	8.578	176	35840	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	3.979	112	2623	0.63	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery =	1.26%#		
4) Phenol-d5	4.830	99	3510	0.68	ppm	0.00
Spiked Amount 50.000			Recovery =	1.36%		
7) Nitrobenzene-d5	5.663	82	91065	22.01	ppm	0.00
Spiked Amount 50.000			Recovery =	44.02%		
13) 2-Fluorobiphenyl	7.411	172	171300	18.46	ppm	0.00
Spiked Amount 50.000			Recovery =	36.92%		
19) 2,4,6-Tribromophenol	8.846	330	17486	20.55	ppm	0.00
Spiked Amount 50.000			Recovery =	41.10%		
27) Terphenyl-d14	11.108	244	157717	16.73	ppm	0.00
Spiked Amount 50.000			Recovery =	33.46%		
Target Compounds						Qvalue
28) Benzo[a]anthracene	12.134	228	375	0.0242	ppm	90
33) Benzo[a]pyrene	13.417	252	395	0.0255	ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

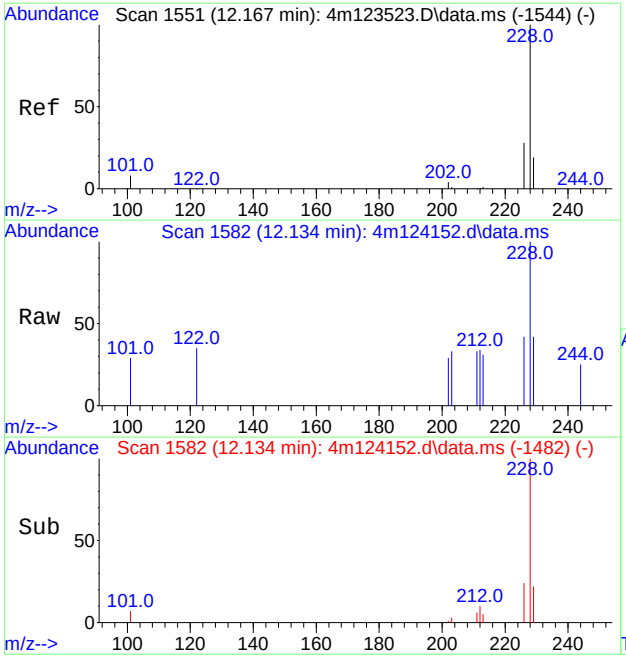
Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\danielas\e4m5826\
Data File : 4m124152.d
Acq On : 28 May 2024 12:14 pm
Operator : karimam
Sample : jd87833-5r Inst : GCMS4M
Misc : op54962a,e4m5826,500,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 18:50:04 2024
Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\M4M5801SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 28 18:33:01 2024
Response via : Initial Calibration



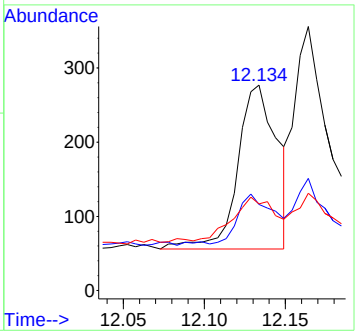
M4M5801SIM.M Tue May 28 19:03:51 2024 Page: 2

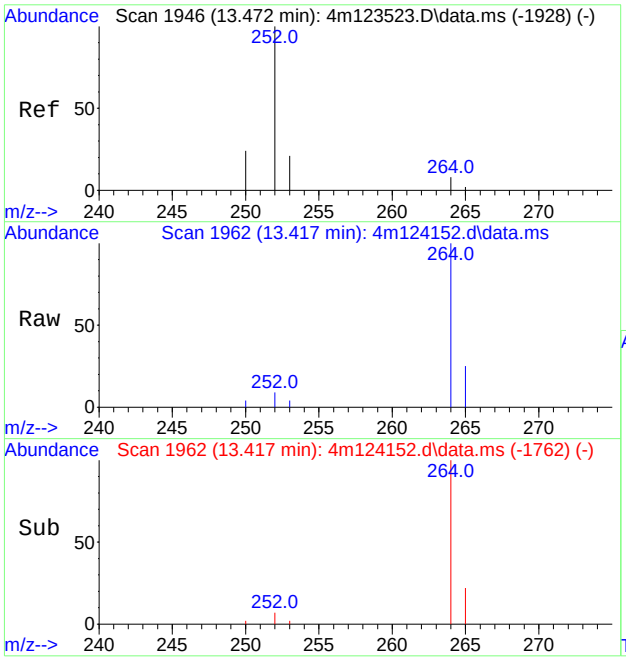


#28
Benzo[a]anthracene
Concen: 0.0242 ppm
RT: 12.134 min Scan# 1582
Delta R.T. 0.010 min
Lab File: 4m124152.d
Acq: 28 May 2024 12:14 pm

Tgt Ion:228 Resp: 375

Ion	Ratio	Lower	Upper
228	100		
226	23.0	0.0	58.0
229	24.0	0.0	48.8

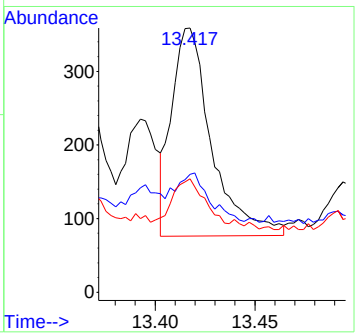




#33
Benzo[a]pyrene
Concen: 0.0255 ppm
RT: 13.417 min Scan# 1962
Delta R.T. -0.005 min
Lab File: 4m124152.d
Acq: 28 May 2024 12:14 pm

Tgt Ion:252 Resp: 395

Ion	Ratio	Lower	Upper
252	100		
253	20.5	0.0	51.5
250	26.5	0.0	53.9



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\altheam\e3h82\
Data File : 3H1184.d
Acq On : 1 Jun 2024 8:12 am
Operator : rocquans
Sample : jd87833-6r Inst : GCMS3H
Misc : op55107a,e3h82,500,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 07:37:10 2024
Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3H73SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jun 03 07:13:29 2024
Response via : Initial Calibration

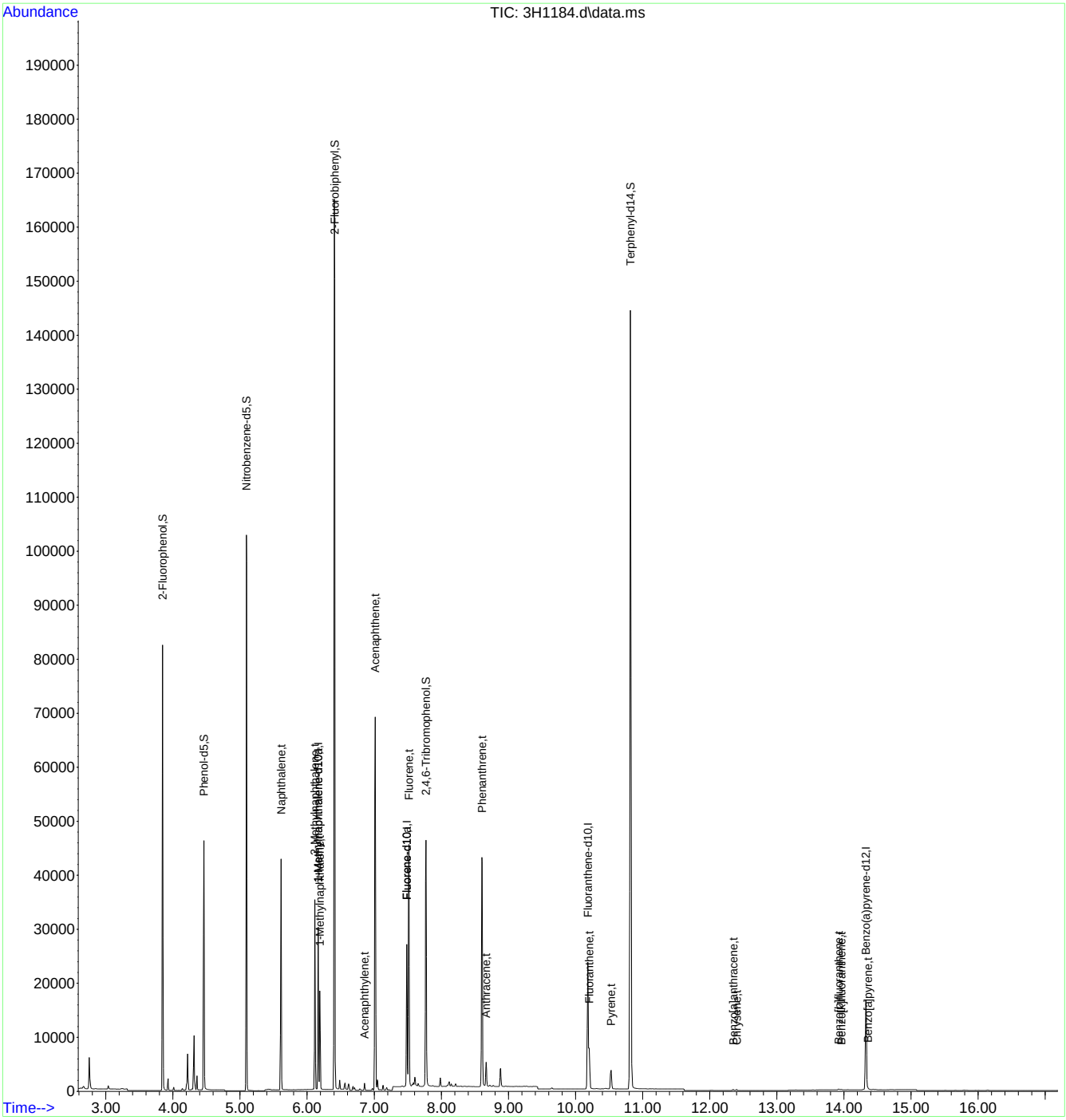
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.164	152	9346	4.00	ppm	0.00
12) Fluorene-d10	7.486	176	10857	4.00	ppm	-0.01
22) Fluoranthene-d10	10.185	212	20111	4.00	ppm	-0.01
28) Benzo(a)pyrene-d12	14.327	264	17172	4.00	ppm	-0.02
35) 1-Methylnaphthalene-d10a	6.164	152	9346	4.00	ppm	0.00
38) Fluorene-d10a	7.486	176	10857	4.00	ppm	-0.01
System Monitoring Compounds						
2) 2-Fluorophenol	3.847	112	33535	33.92	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 67.84%#			
3) Phenol-d5	4.462	99	30276	27.51	ppm	0.00
Spiked Amount 50.000			Recovery = 55.02%			
6) Nitrobenzene-d5	5.094	82	46084	53.32	ppm	0.00
Spiked Amount 50.000			Recovery = 106.64%			
11) 2-Fluorobiphenyl	6.412	172	118950	40.42	ppm	0.00
Spiked Amount 50.000			Recovery = 80.84%			
17) 2,4,6-Tribromophenol	7.772	330	20169	78.46	ppm	-0.01
Spiked Amount 50.000			Recovery = 156.92%			
25) Terphenyl-d14	10.819	244	135360	37.21	ppm	-0.02
Spiked Amount 50.000			Recovery = 74.42%			
Target Compounds						Qvalue
7) Naphthalene	5.611	128	26786	7.8517	ppm	91
9) 2-Methylnaphthalene	6.115	142	11967	4.8856	ppm	88
13) Acenaphthylene	6.854	152	712	0.1830	ppm	94
14) Acenaphthene	7.016	153	24782	9.0436	ppm	94
16) Fluorene	7.517	166	18118	5.9524	ppm	99
20) Phenanthrene	8.603	178	31809	7.6575	ppm	99
21) Anthracene	8.669	178	3288	0.8545	ppm	91
23) Fluoranthene	10.206	202	5121	1.1116	ppm	93
24) Pyrene	10.533	202	2748	0.5944	ppm	90
26) Benzo[a]anthracene	12.350	228	194	0.0520	ppm	97
27) Chrysene	12.403	228	198	0.0506	ppm	96
29) Benzo[b]fluoranthene	13.922	252	202	0.0506	ppm	96
30) Benzo[k]fluoranthene	13.960	252	81	0.0205	ppm	96
31) Benzo[a]pyrene	14.358	252	145	0.0335	ppm	99
37) 1-Methylnaphthalene	6.188	142	7612	3.2592	ppm	89

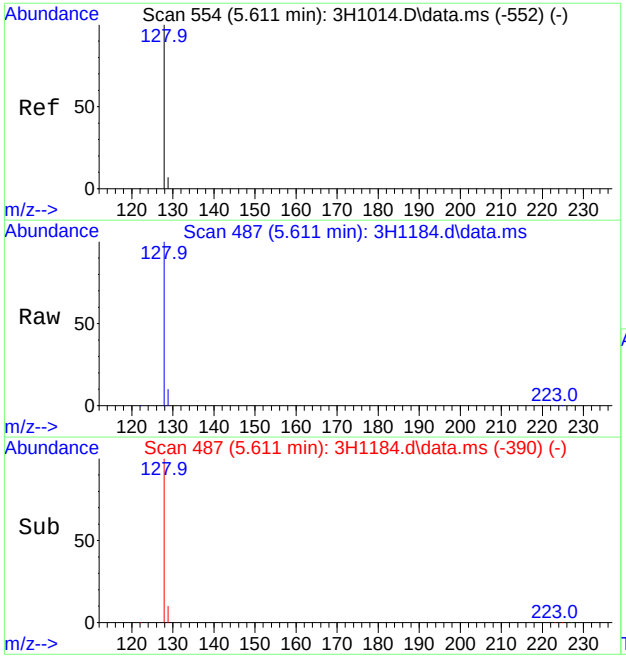
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\altheam\e3h82\
Data File : 3H1184.d
Acq On : 1 Jun 2024 8:12 am
Operator : rocquans
Sample : jd87833-6r Inst : GCMS3H
Misc : op55107a,e3h82,500,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 07:37:10 2024
Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3H73SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jun 03 07:13:29 2024
Response via : Initial Calibration

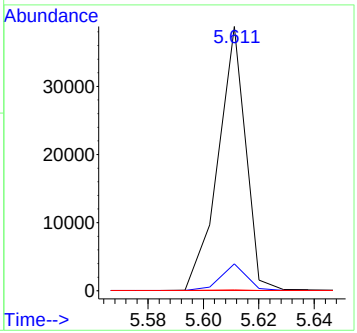


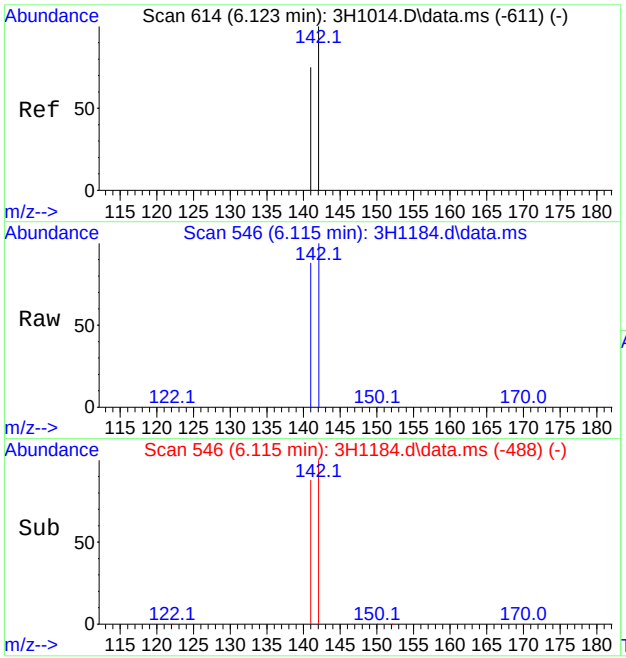


#7
Naphthalene
Concen: 7.8517 ppm
RT: 5.611 min Scan# 487
Delta R.T. -0.000 min
Lab File: 3H1184.d
Acq: 1 Jun 2024 8:12 am

Tgt Ion:128 Resp: 26786

Ion	Ratio	Lower	Upper
128	100		
129	10.1	0.0	37.0
122	0.2	0.0	30.3

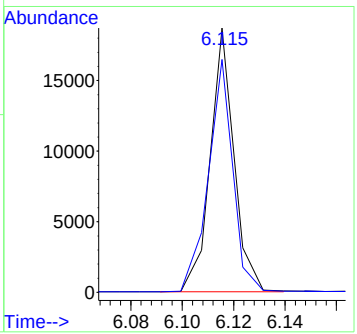


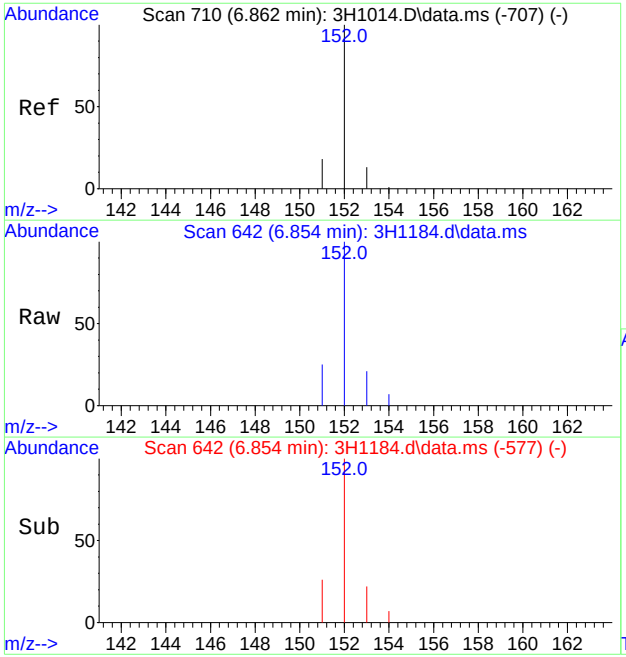


#9
2-Methylnaphthalene
Concen: 4.8856 ppm
RT: 6.115 min Scan# 546
Delta R.T. -0.008 min
Lab File: 3H1184.d
Acq: 1 Jun 2024 8:12 am

Tgt Ion:142 Resp: 11967

Ion	Ratio	Lower	Upper
142	100		
141	88.0	47.6	107.6

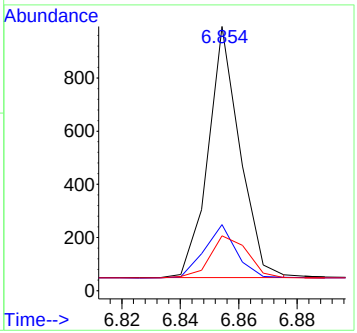


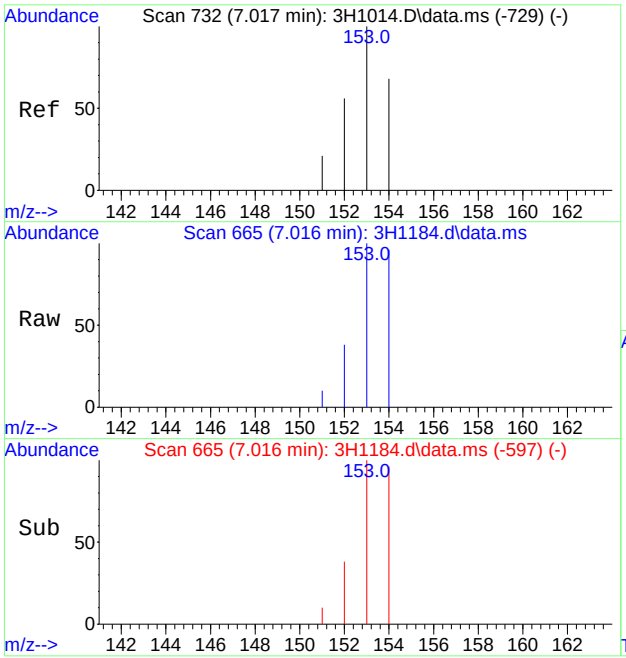


#13
Acenaphthylene
Concen: 0.1830 ppm
RT: 6.854 min Scan# 642
Delta R.T. -0.007 min
Lab File: 3H1184.d
Acq: 1 Jun 2024 8:12 am

Tgt Ion:152 Resp: 712

Ion	Ratio	Lower	Upper
152	100		
151	21.2	0.0	52.0
153	16.8	0.0	41.5

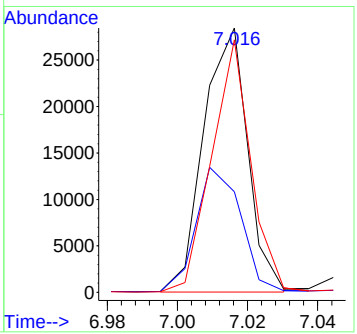


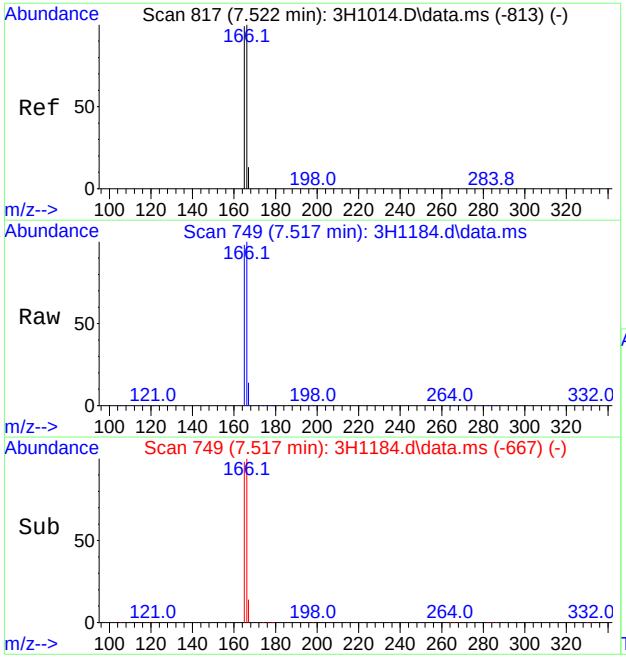


#14
Acenaphthene
Concen: 9.0436 ppm
RT: 7.016 min Scan# 665
Delta R.T. -0.007 min
Lab File: 3H1184.d
Acq: 1 Jun 2024 8:12 am

Tgt Ion:153 Resp: 24782

Ion	Ratio	Lower	Upper
153	100		
152	37.8	9.3	69.3
154	95.3	58.4	118.4

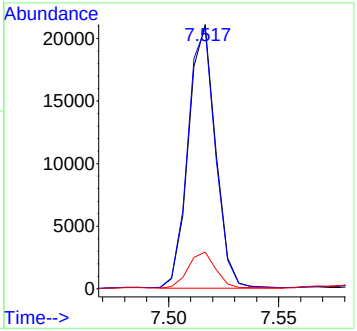


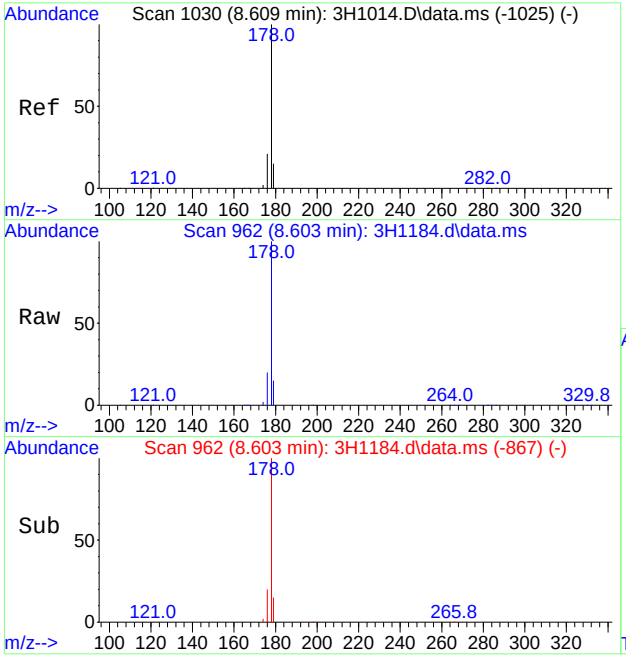


#16
Fluorene
Concen: 5.9524 ppm
RT: 7.517 min Scan# 749
Delta R.T. -0.010 min
Lab File: 3H1184.d
Acq: 1 Jun 2024 8:12 am

Tgt Ion:166 Resp: 18118

Ion	Ratio	Lower	Upper
166	100		
165	98.4	69.5	129.5
167	13.7	0.0	43.0

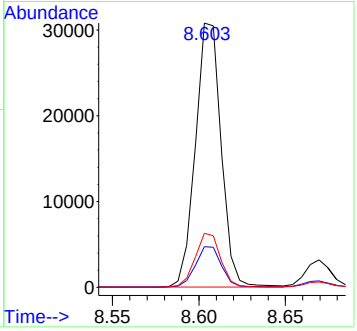


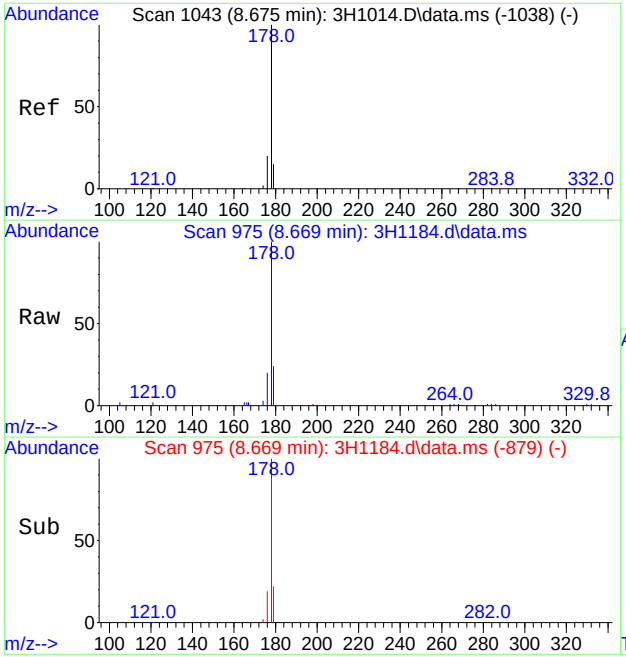


#20
Phenanthrene
Concen: 7.6575 ppm
RT: 8.603 min Scan# 962
Delta R.T. -0.015 min
Lab File: 3H1184.d
Acq: 1 Jun 2024 8:12 am

Tgt Ion:178 Resp: 31809

Ion	Ratio	Lower	Upper
178	100		
179	15.2	0.0	45.1
176	20.4	0.0	49.7

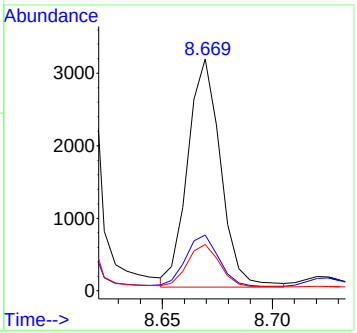


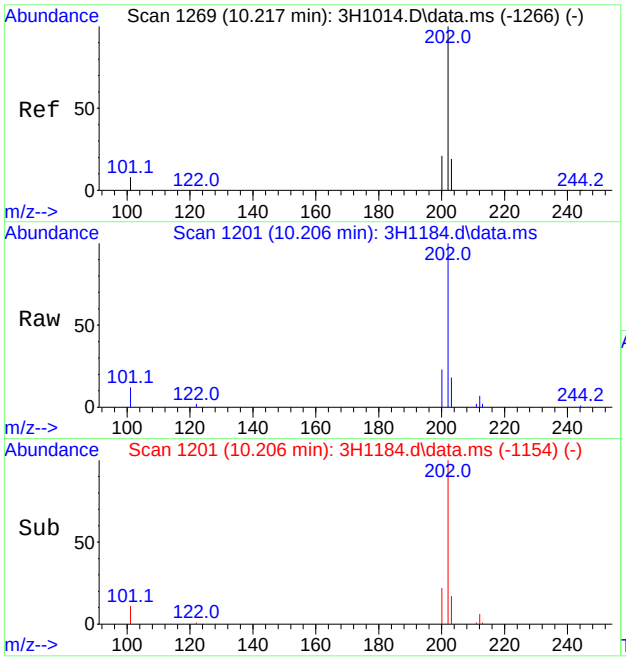


#21
Anthracene
Concen: 0.8545 ppm
RT: 8.669 min Scan# 975
Delta R.T. -0.010 min
Lab File: 3H1184.d
Acq: 1 Jun 2024 8:12 am

Tgt Ion:178 Resp: 3288

Ion	Ratio	Lower	Upper
178	100		
179	22.8	0.0	45.1
176	18.7	0.0	49.4

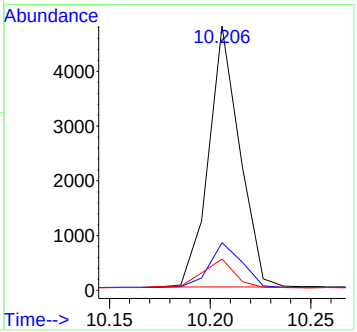


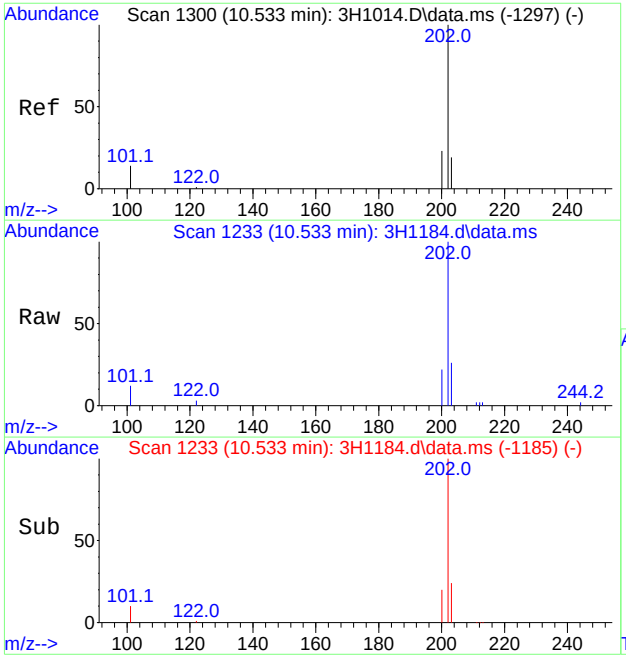


#23
Fluoranthene
Concen: 1.1116 ppm
RT: 10.206 min Scan# 1201
Delta R.T. -0.021 min
Lab File: 3H1184.d
Acq: 1 Jun 2024 8:12 am

Tgt Ion:202 Resp: 5121

Ion	Ratio	Lower	Upper
202	100		
203	17.1	0.0	49.6
101	10.7	0.0	37.0

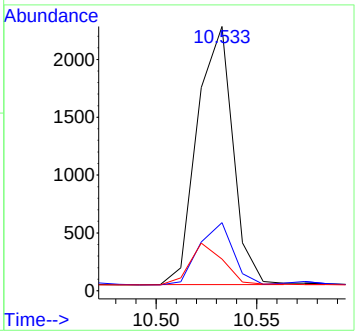


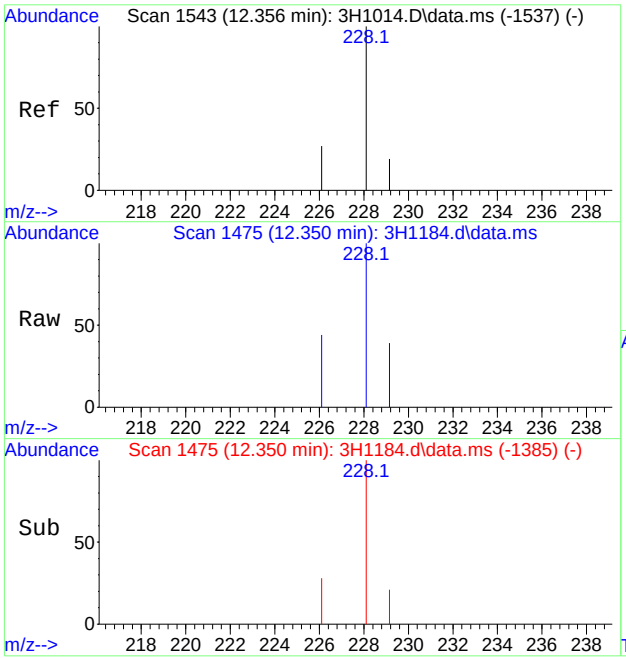


#24
Pyrene
Concen: 0.5944 ppm
RT: 10.533 min Scan# 1233
Delta R.T. -0.010 min
Lab File: 3H1184.d
Acq: 1 Jun 2024 8:12 am

Tgt Ion:202 Resp: 2748

Ion	Ratio	Lower	Upper
202	100		
203	23.9	0.0	48.5
101	9.9	0.0	42.6

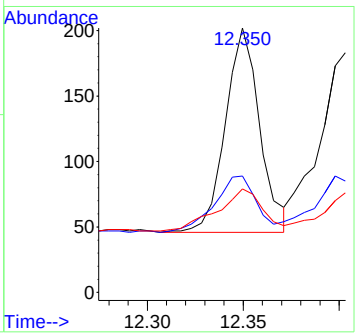


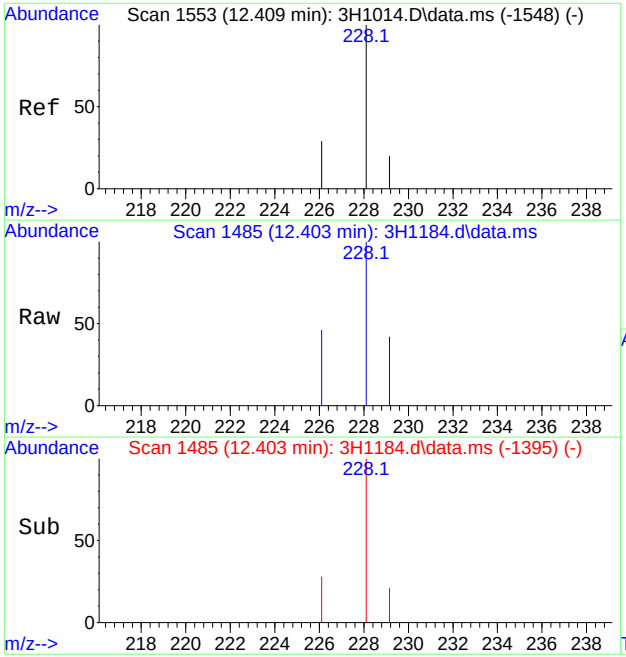


#26
Benzo[a]anthracene
Concen: 0.0520 ppm
RT: 12.350 min Scan# 1475
Delta R.T. -0.016 min
Lab File: 3H1184.d
Acq: 1 Jun 2024 8:12 am

Tgt Ion:228 Resp: 194

Ion	Ratio	Lower	Upper
228	100		
226	26.6	0.0	58.0
229	20.5	0.0	48.7

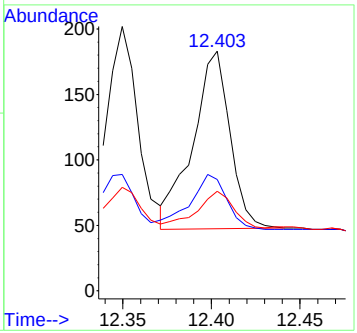


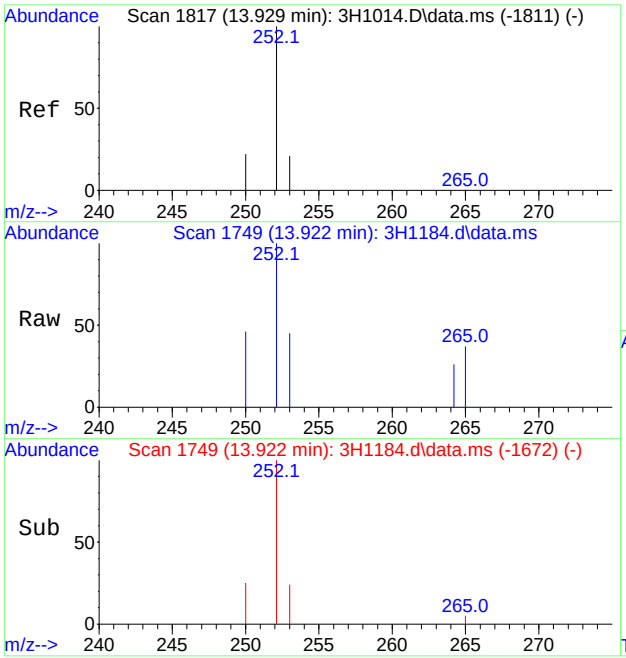


#27
Chrysene
Concen: 0.0506 ppm
RT: 12.403 min Scan# 1485
Delta R.T. -0.016 min
Lab File: 3H1184.d
Acq: 1 Jun 2024 8:12 am

Tgt Ion:228 Resp: 198

Ion	Ratio	Lower	Upper
228	100		
226	27.3	0.1	60.1
229	20.6	0.0	39.4

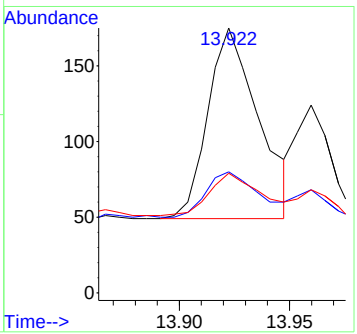


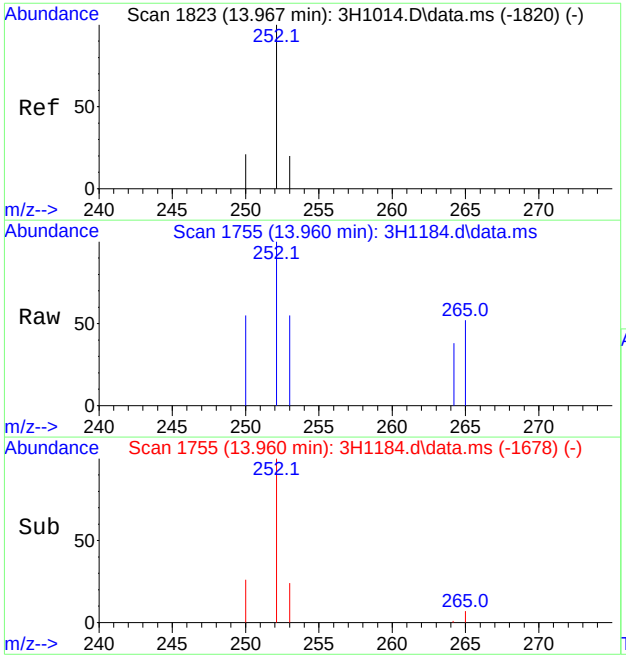


#29
Benzo[b]fluoranthene
Concen: 0.0506 ppm
RT: 13.922 min Scan# 1749
Delta R.T. -0.019 min
Lab File: 3H1184.d
Acq: 1 Jun 2024 8:12 am

Tgt Ion:252 Resp: 202

Ion	Ratio	Lower	Upper
252	100		
250	23.5	0.0	51.1
253	22.1	0.0	51.0

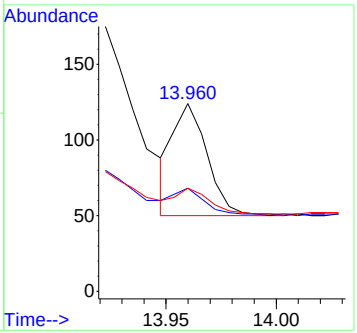


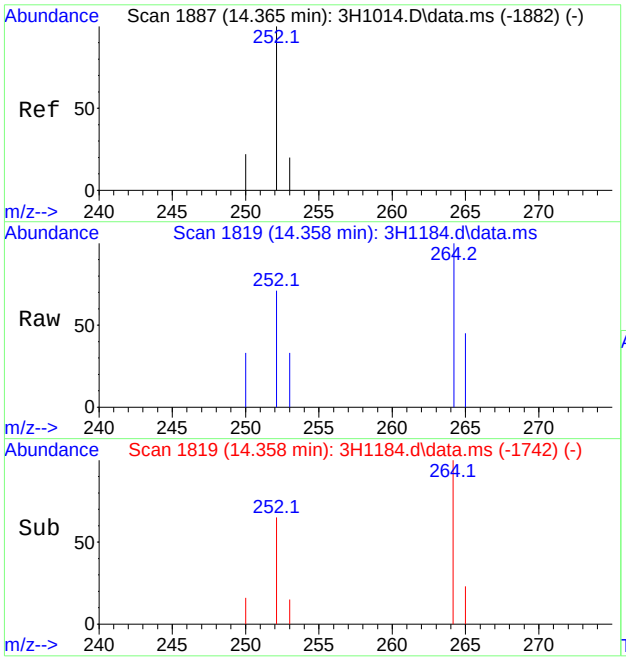


#30
Benzo[k]fluoranthene
Concen: 0.0205 ppm
RT: 13.960 min Scan# 1755
Delta R.T. -0.019 min
Lab File: 3H1184.d
Acq: 1 Jun 2024 8:12 am

Tgt Ion:252 Resp: 81

Ion	Ratio	Lower	Upper
252	100		
250	22.7	0.0	51.0
253	22.7	0.0	51.0

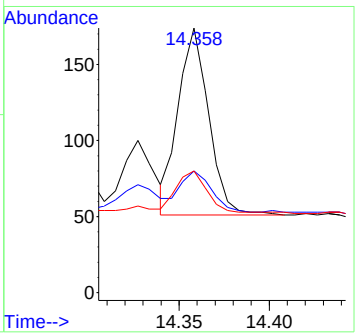


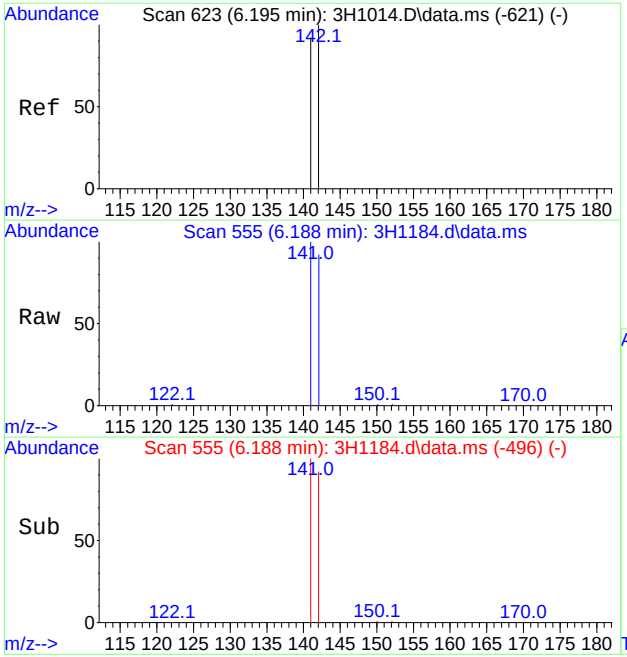


#31
Benzo[a]pyrene
Concen: 0.0335 ppm
RT: 14.358 min Scan# 1819
Delta R.T. -0.019 min
Lab File: 3H1184.d
Acq: 1 Jun 2024 8:12 am

Tgt Ion:252 Resp: 145

Ion	Ratio	Lower	Upper
252	100		
253	19.9	0.0	50.5
250	23.0	0.0	52.8

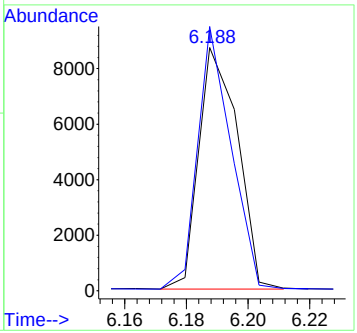




#37
1-Methylnaphthalene
Concen: 3.2592 ppm
RT: 6.188 min Scan# 555
Delta R.T. -0.008 min
Lab File: 3H1184.d
Acq: 1 Jun 2024 8:12 am

Tgt Ion:142 Resp: 7612

Ion	Ratio	Lower	Upper
142	100		
141	108.8	77.9	117.9



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\danielas\e4m5826\
Data File : 4m124153.d
Acq On : 28 May 2024 12:36 pm
Operator : karimam
Sample : jd87833-6r Inst : GCMS4M
Misc : op54962a,e4m5826,500,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 18:51:21 2024
Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\M4M5801SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 28 18:33:01 2024
Response via : Initial Calibration

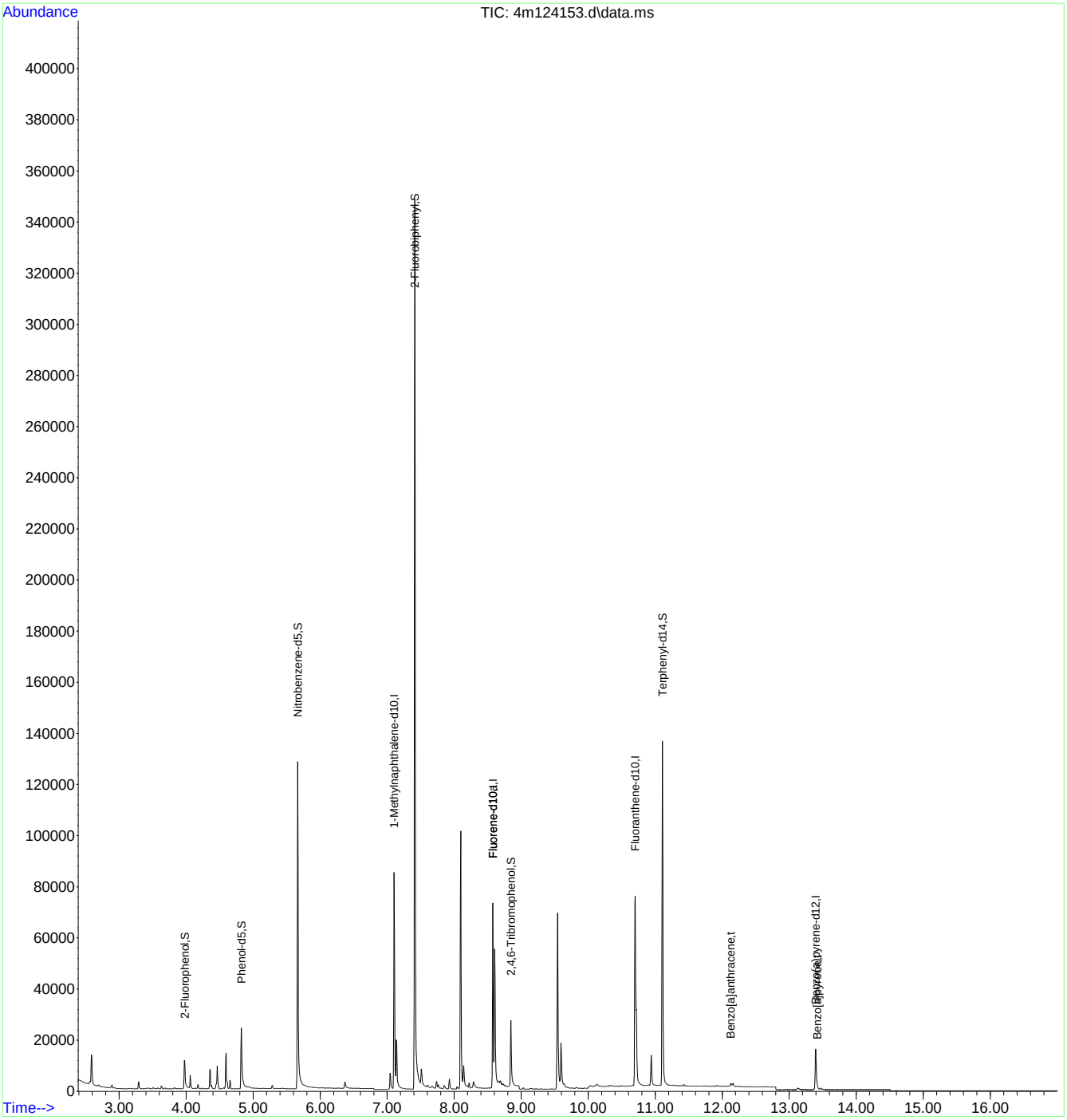
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.104	152	30394	4.00	ppm	0.00
14) Fluorene-d10	8.578	176	35477	4.00	ppm	0.00
24) Fluoranthene-d10	10.703	212	60220	4.00	ppm	0.00
30) Benzo(a)pyrene-d12	13.395	264	16375	4.00	ppm	0.00
37) Fluorene-d10a	8.578	176	35477	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	3.979	112	7391	1.79	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery =	3.58%#		
4) Phenol-d5	4.824	99	21491	4.18	ppm	0.00
Spiked Amount 50.000			Recovery =	8.36%		
7) Nitrobenzene-d5	5.663	82	88306	21.55	ppm	0.00
Spiked Amount 50.000			Recovery =	43.10%		
13) 2-Fluorobiphenyl	7.411	172	187939	20.44	ppm	0.00
Spiked Amount 50.000			Recovery =	40.88%		
19) 2,4,6-Tribromophenol	8.846	330	16253	19.44	ppm	0.00
Spiked Amount 50.000			Recovery =	38.88%		
27) Terphenyl-d14	11.109	244	97447	11.18	ppm	0.00
Spiked Amount 50.000			Recovery =	22.36%		
Target Compounds						Qvalue
28) Benzo[a]anthracene	12.124	228	1078	0.0752	ppm	98
33) Benzo[a]pyrene	13.418	252	409	0.0818	ppm	91

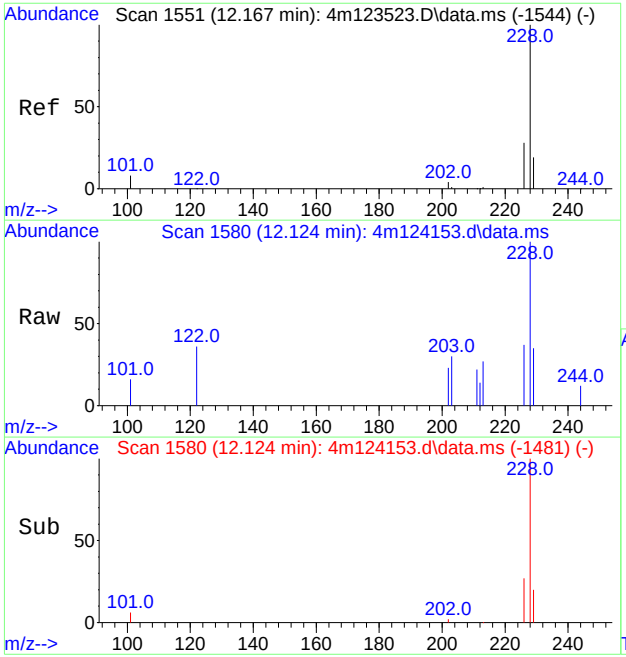
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\danielas\e4m5826\
Data File : 4m124153.d
Acq On : 28 May 2024 12:36 pm
Operator : karimam
Sample : jd87833-6r Inst : GCMS4M
Misc : op54962a,e4m5826,500,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 18:51:21 2024
Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\M4M5801SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 28 18:33:01 2024
Response via : Initial Calibration

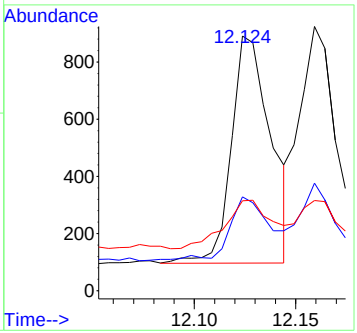


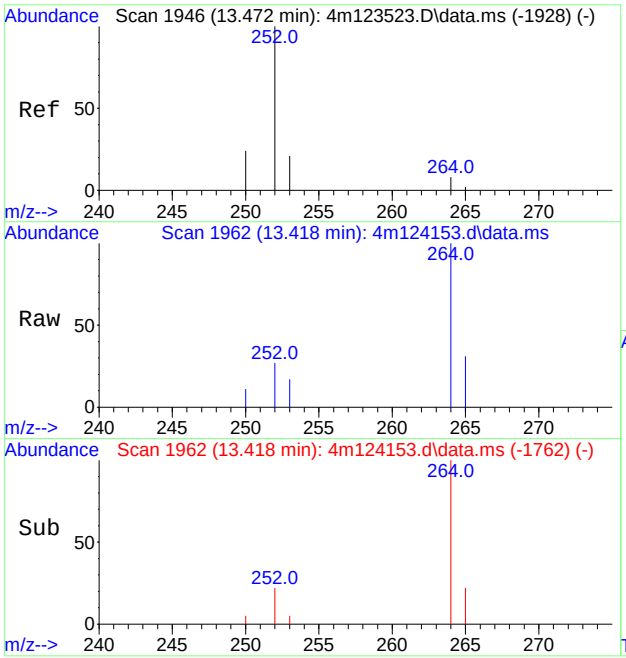


#28
Benzo[a]anthracene
Concen: 0.0752 ppm
RT: 12.124 min Scan# 1580
Delta R.T. 0.000 min
Lab File: 4m124153.d
Acq: 28 May 2024 12:36 pm

Tgt Ion:228 Resp: 1078

Ion	Ratio	Lower	Upper
228	100		
226	27.0	0.0	58.0
229	19.8	0.0	48.8

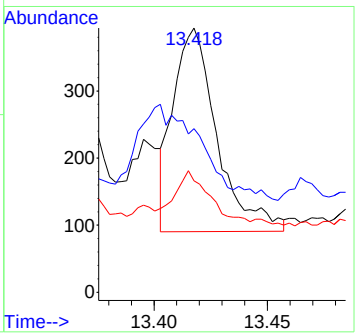




#33
Benzo[a]pyrene
Concen: 0.0818 ppm
RT: 13.418 min Scan# 1962
Delta R.T. -0.005 min
Lab File: 4m124153.d
Acq: 28 May 2024 12:36 pm

Tgt Ion:252 Resp: 409

Ion	Ratio	Lower	Upper
252	100		
253	13.3	0.0	51.5
250	23.0	0.0	53.9



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\altheam\e3h82\
Data File : 3H1177.d
Acq On : 1 Jun 2024 5:21 am
Operator : rocquans
Sample : op55107a-mb1 Inst : GCMS3H
Misc : op55107a,e3h82,500,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 07:30:44 2024
Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3H73SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jun 03 07:13:29 2024
Response via : Initial Calibration

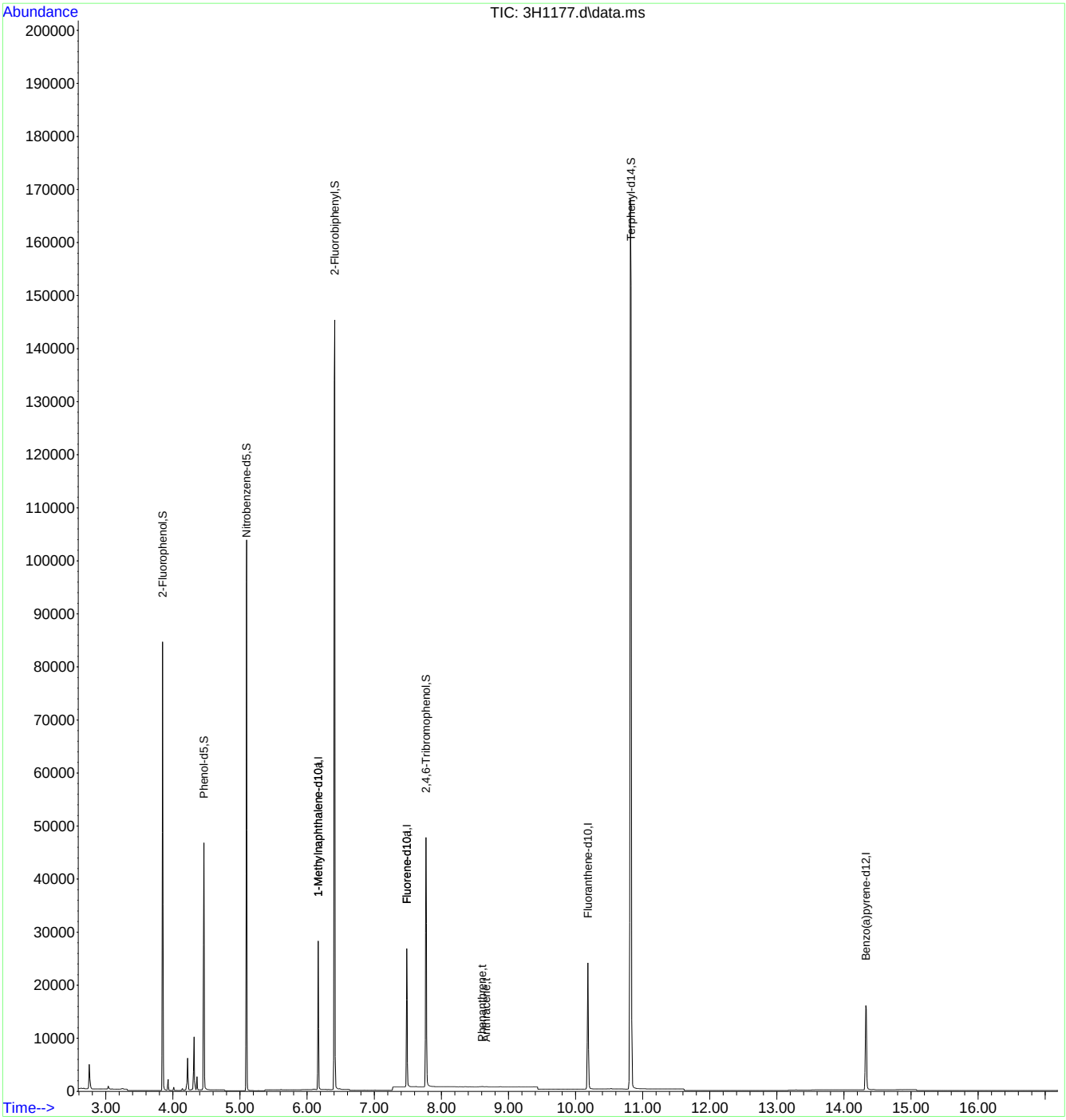
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.164	152	9159	4.00	ppm	0.00
12) Fluorene-d10	7.486	176	10718	4.00	ppm	-0.01
22) Fluoranthene-d10	10.185	212	20097	4.00	ppm	-0.01
28) Benzo(a)pyrene-d12	14.327	264	17528	4.00	ppm	-0.02
35) 1-Methylnaphthalene-d10a	6.164	152	9159	4.00	ppm	0.00
38) Fluorene-d10a	7.486	176	10718	4.00	ppm	-0.01
System Monitoring Compounds						
2) 2-Fluorophenol	3.847	112	32880	33.94	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 67.88%#			
3) Phenol-d5	4.462	99	29816	27.65	ppm	0.00
Spiked Amount 50.000			Recovery = 55.30%			
6) Nitrobenzene-d5	5.094	82	46156	54.49	ppm	0.00
Spiked Amount 50.000			Recovery = 108.98%			
11) 2-Fluorobiphenyl	6.412	172	105316	36.52	ppm	0.00
Spiked Amount 50.000			Recovery = 73.04%			
17) 2,4,6-Tribromophenol	7.772	330	19950	78.61	ppm	-0.01
Spiked Amount 50.000			Recovery = 157.22%			
25) Terphenyl-d14	10.829	244	187593	51.60	ppm	-0.01
Spiked Amount 50.000			Recovery = 103.20%			
Target Compounds						Qvalue
20) Phenanthrene	8.608	178	72	0.0176	ppm	97
21) Anthracene	8.669	178	23	0.0061	ppm	88

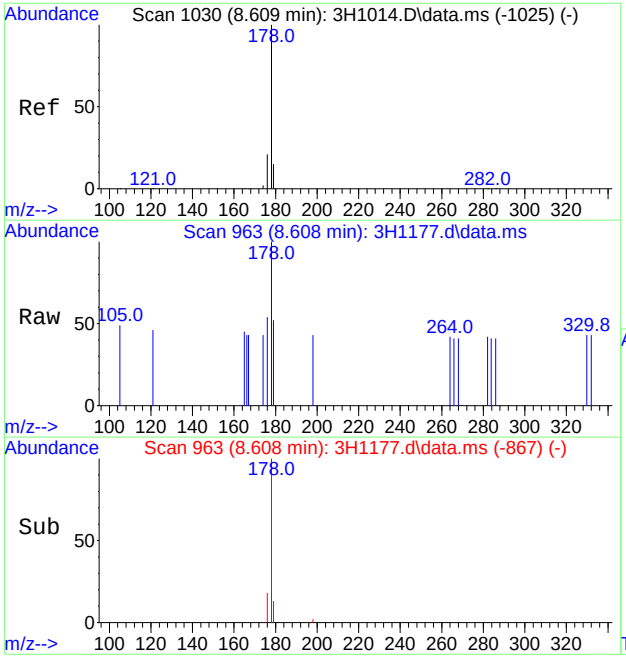
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\altheam\e3h82\
Data File : 3H1177.d
Acq On : 1 Jun 2024 5:21 am
Operator : rocquans
Sample : op55107a-mb1 Inst : GCMS3H
Misc : op55107a,e3h82,500,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 07:30:44 2024
Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3H73SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jun 03 07:13:29 2024
Response via : Initial Calibration

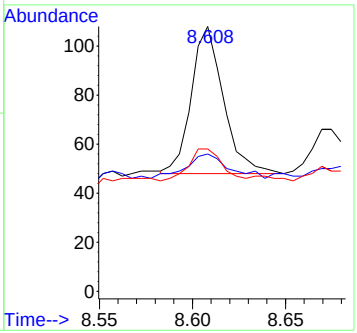


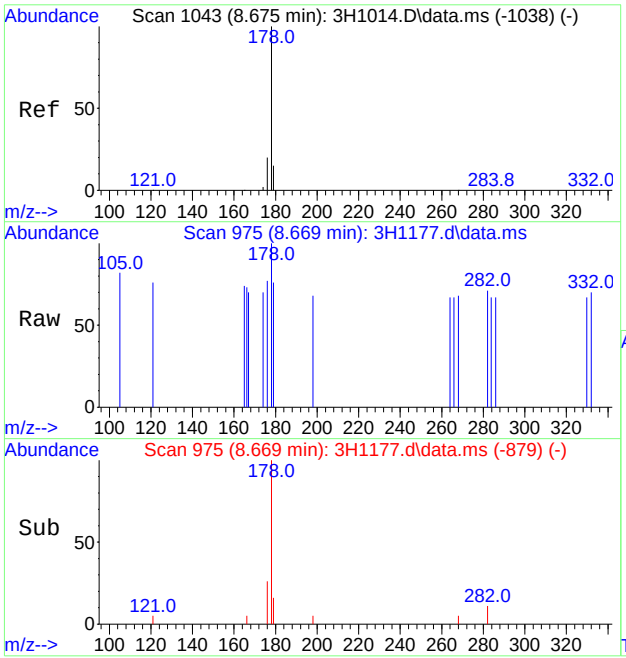


#20
Phenanthrene
Concen: 0.0176 ppm
RT: 8.608 min Scan# 963
Delta R.T. -0.010 min
Lab File: 3H1177.d
Acq: 1 Jun 2024 5:21 am

Tgt Ion:178 Resp: 72

Ion	Ratio	Lower	Upper
178	100		
179	13.4	0.0	45.1
176	21.0	0.0	49.7

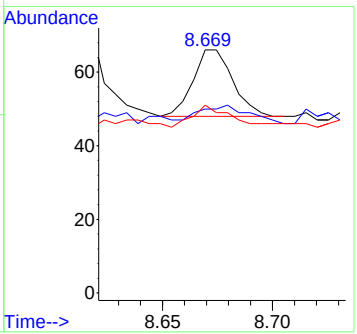




#21
Anthracene
Concen: 0.0061 ppm
RT: 8.669 min Scan# 975
Delta R.T. -0.010 min
Lab File: 3H1177.d
Acq: 1 Jun 2024 5:21 am

Tgt Ion:178 Resp: 23

Ion	Ratio	Lower	Upper
178	100		
179	16.7	0.0	45.1
176	27.8	0.0	49.4



Manual Integrations APPROVED (compounds with "m" flag)
Jacky Takeuchi 05/28/24 20:26

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\danielas\e4m5826\
Data File : 4m124147.d
Acq On : 28 May 2024 10:22 am
Operator : karimam
Sample : op54962a-mb1 Inst : GCMS4M
Misc : op54962a,e4m5826,500,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 18:36:10 2024
Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\M4M5801SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 28 18:33:01 2024
Response via : Initial Calibration

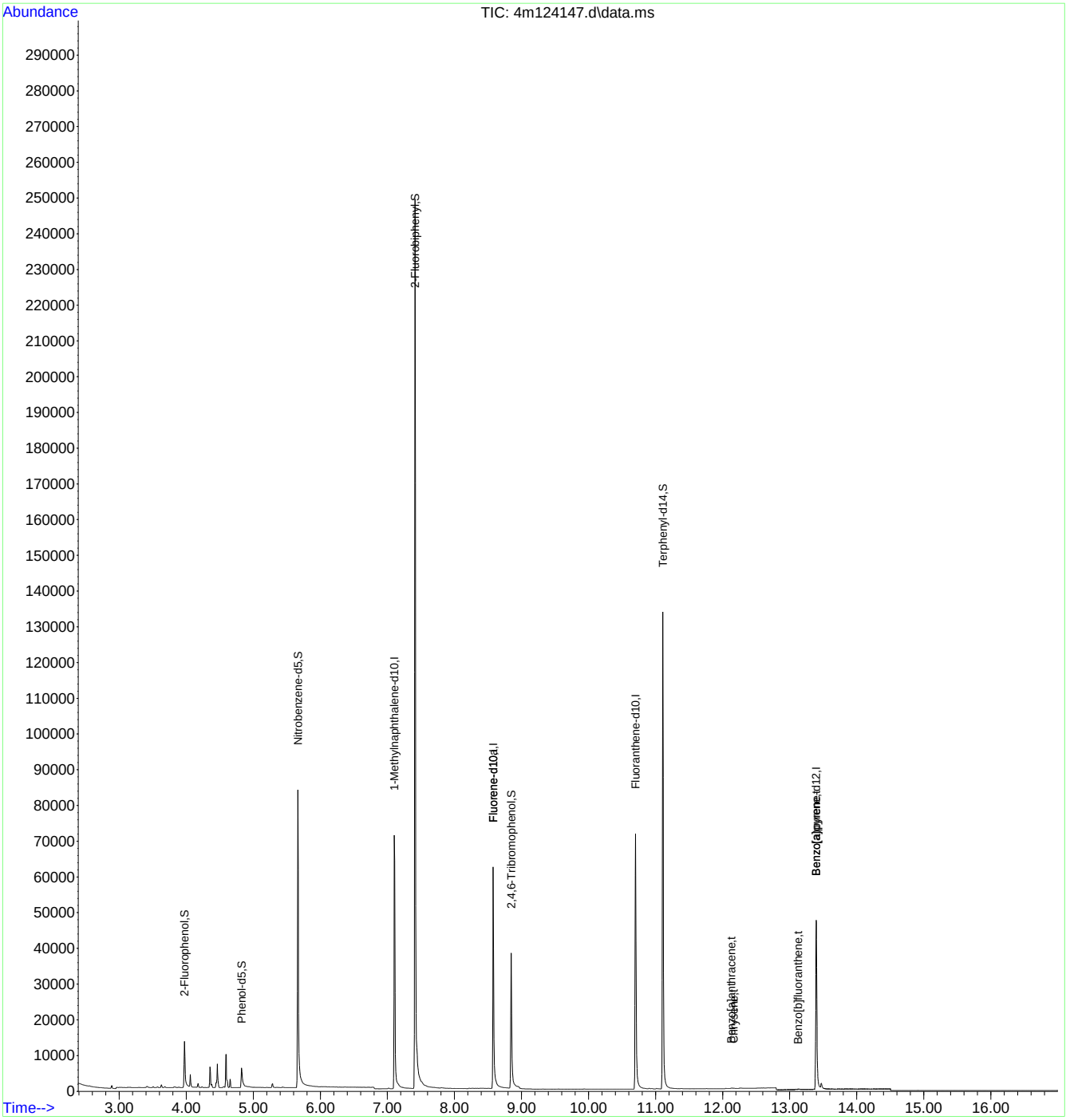
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.104	152	28630	4.00	ppm	0.00
14) Fluorene-d10	8.578	176	33550	4.00	ppm	0.00
24) Fluoranthene-d10	10.702	212	61139	4.00	ppm	0.00
30) Benzo(a)pyrene-d12	13.395	264	47063	4.00	ppm	0.00
37) Fluorene-d10a	8.578	176	33550	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	3.972	112	7664	1.97	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery =	3.94%#		
4) Phenol-d5	4.824	99	5968	1.23	ppm	0.00
Spiked Amount 50.000			Recovery =	2.46%		
7) Nitrobenzene-d5	5.663	82	65110	16.87	ppm	0.00
Spiked Amount 50.000			Recovery =	33.74%		
13) 2-Fluorobiphenyl	7.411	172	137282	15.85	ppm	0.00
Spiked Amount 50.000			Recovery =	31.70%		
19) 2,4,6-Tribromophenol	8.846	330	24420	29.02	ppm	0.00
Spiked Amount 50.000			Recovery =	58.04%		
27) Terphenyl-d14	11.108	244	98925	11.18	ppm	0.00
Spiked Amount 50.000			Recovery =	22.36%		
Target Compounds						Qvalue
28) Benzo[a]anthracene	12.129	228	91	0.0062	ppm	87
29) Chrysene	12.164	228	96	0.0066	ppm	77
31) Benzo[b]fluoranthene	13.123	252	114m	0.0082	ppm	
33) Benzo[a]pyrene	13.395	252	245	0.0171	ppm	83

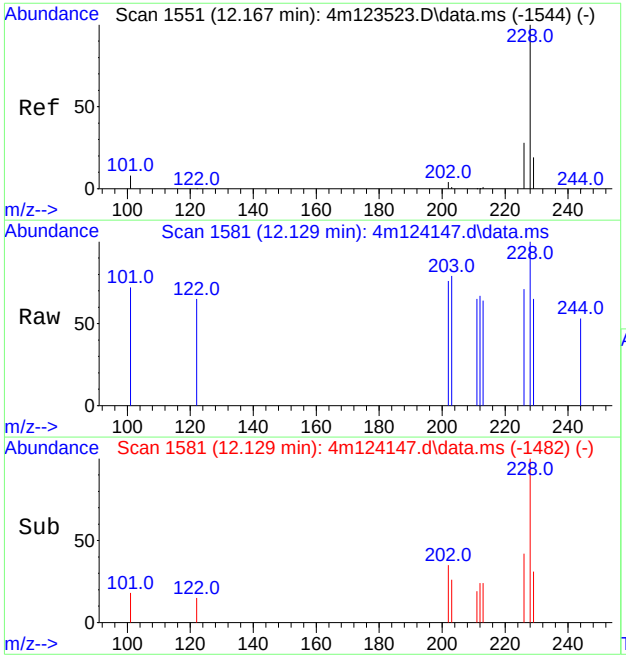
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\danielas\e4m5826\
Data File : 4m124147.d
Acq On : 28 May 2024 10:22 am
Operator : karimam
Sample : op54962a-mb1 Inst : GCMS4M
Misc : op54962a,e4m5826,500,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 18:36:10 2024
Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\M4M5801SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue May 28 18:33:01 2024
Response via : Initial Calibration

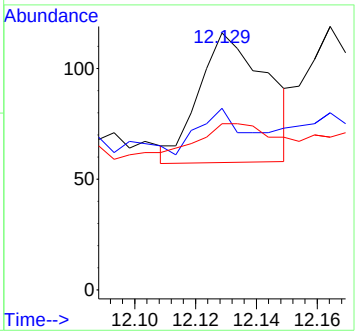


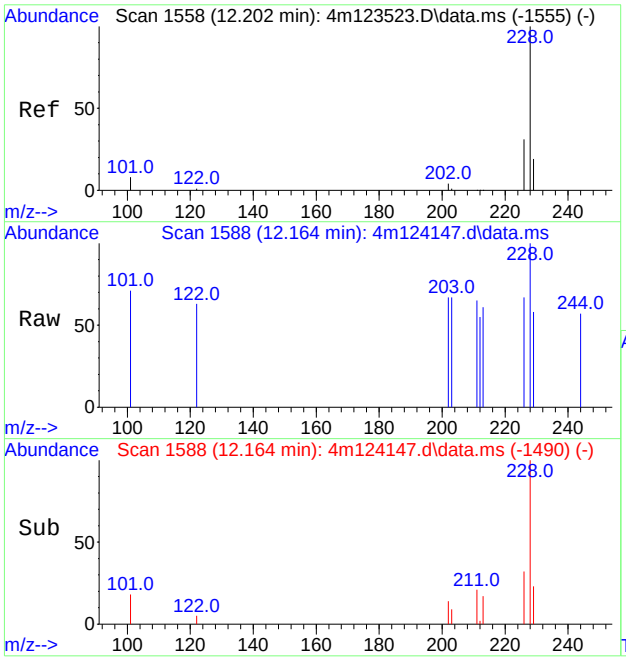


#28
Benzo[a]anthracene
Concen: 0.0062 ppm
RT: 12.129 min Scan# 1581
Delta R.T. 0.005 min
Lab File: 4m124147.d
Acq: 28 May 2024 10:22 am

Tgt Ion:228 Resp: 91

Ion	Ratio	Lower	Upper
228	100		
226	34.2	0.0	58.0
229	25.0	0.0	48.8

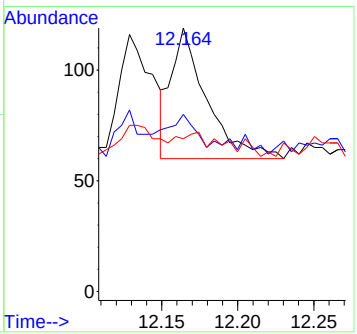


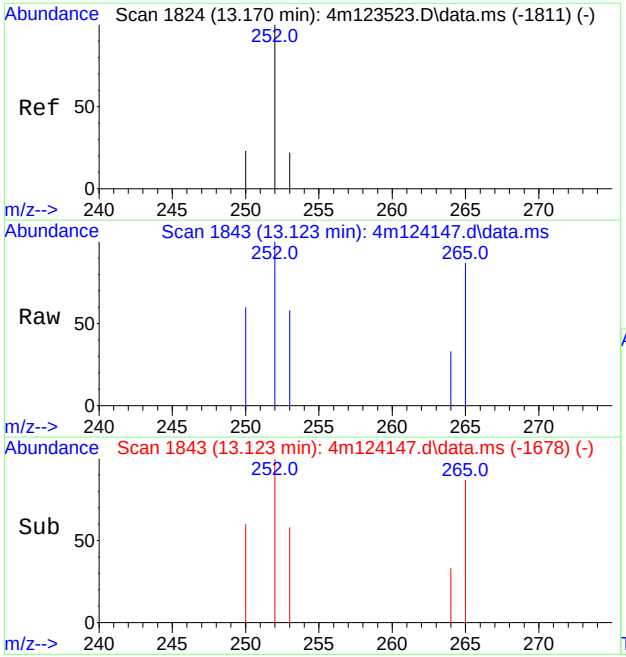


#29
Chrysene
Concen: 0.0066 ppm
RT: 12.164 min Scan# 1588
Delta R.T. -0.000 min
Lab File: 4m124147.d
Acq: 28 May 2024 10:22 am

Tgt Ion:228 Resp: 96

Ion	Ratio	Lower	Upper
228	100		
226	21.8	0.0	58.6
229	2.3	0.0	39.6

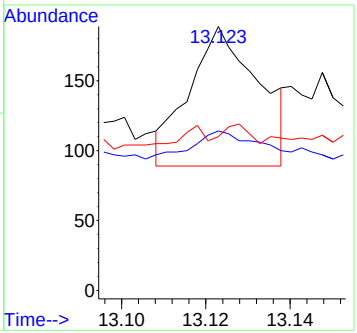


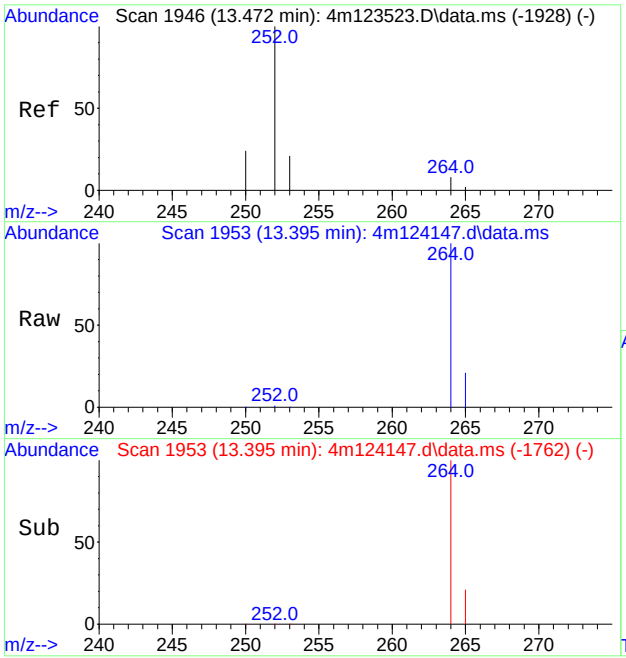


#31
Benzo[b]fluoranthene
Concen: 0.0082 ppm m
RT: 13.123 min Scan# 1843
Delta R.T. -0.000 min
Lab File: 4m124147.d
Acq: 28 May 2024 10:22 am

Tgt Ion:252 Resp: 114

Ion	Ratio	Lower	Upper
252	100		
250	60.3	0.0	53.4#
253	58.2	0.0	51.4#

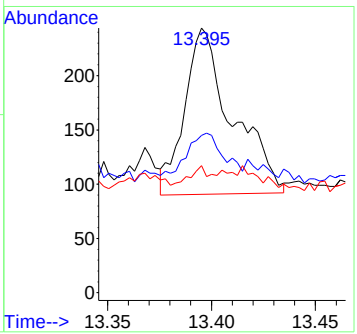




#33
Benzo[a]pyrene
Concen: 0.0171 ppm
RT: 13.395 min Scan# 1953
Delta R.T. -0.027 min
Lab File: 4m124147.d
Acq: 28 May 2024 10:22 am

Tgt Ion:252 Resp: 245

Ion	Ratio	Lower	Upper
252	100		
253	24.9	0.0	51.5
250	11.0	0.0	53.9



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052424W1.CSV Date Analyzed: 05/24/24 Methods: SW846 7470A
Analyst: CB Run ID: MA56148
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:01	MA56148-STD1	1		b=2.6651e-004,c=2.5647e-002,rho=0.9990146
10:03	MA56148-STD2	1		STDB
10:04	MA56148-STD3	1		STDC
10:06	MA56148-STD4	1		STDD
10:08	MA56148-STD5	1		STDE
10:09	MA56148-STD6	1		STDF
10:16	ZZZZZZ	1		
10:17	MA56148-ICV1	1		
10:19	MA56148-ICB1	1		
10:21	MA56148-CCV1	1		
10:22	MA56148-CCB1	1		
10:24	MA56148-CRI1	1		
10:26	MP46849-MB1	1		
10:27	MP46849-B1	1		
10:29	MP46849-S1	1		
10:31	MP46849-S2	1		
10:33	JD88735-3	1		(sample used for QC only; not part of login JD87833R)
10:35	ZZZZZZ	1		
10:36	ZZZZZZ	1		
10:38	ZZZZZZ	1		
10:39	MA56148-CCV2	1		
10:41	MA56148-CCB2	1		
10:43	ZZZZZZ	1		
10:44	ZZZZZZ	1		
10:45	ZZZZZZ	1		
10:47	ZZZZZZ	1		
10:48	ZZZZZZ	1		
10:50	ZZZZZZ	1		
10:51	ZZZZZZ	1		
10:53	ZZZZZZ	1		
10:54	MA56148-CCV3	1		
10:58	MA56148-CCB3	1		
11:03	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052424W1.CSV Date Analyzed: 05/24/24 Methods: SW846 7470A
Analyst: CB Run ID: MA56148
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:04	ZZZZZZ	1		
11:06	ZZZZZZ	1		
11:08	ZZZZZZ	1		
11:09	ZZZZZZ	1		
11:11	ZZZZZZ	1		
11:12	ZZZZZZ	1		
11:14	MA56148-CCV4	1		
11:15	MA56148-CCB4	1		
11:17	MP46850-MB1	1		
11:19	MP46850-LB1	1		
11:20	MP46850-B1	1		
11:22	MP46850-LS1	1		
11:23	MP46850-S1	1		
11:25	MP46850-S2	1		
11:27	JD87424-5B	1		(sample used for QC only; not part of login JD87833R)
11:29	ZZZZZZ	1		
11:31	MA56148-CCV5	1		
11:35	MA56148-CCB5	1		
11:38	MP46851-MB1	1		
11:39	MP46851-LB1	1		
11:40	MP46851-B1	1		
11:42	MP46851-LS1	1		
11:44	MP46851-S1	1		
11:46	MP46851-S2	1		
11:48	JD88876-1A	1		(sample used for QC only; not part of login JD87833R)
11:50	ZZZZZZ	1		
11:51	MA56148-CCV6	1		
11:53	MA56148-CCB6	1		
11:55	ZZZZZZ	1		
11:56	ZZZZZZ	1		
11:57	ZZZZZZ	1		
11:59	ZZZZZZ	1		
12:00	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052424W1.CSV Date Analyzed: 05/24/24 Methods: SW846 7470A
Analyst: CB Run ID: MA56148
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:02	ZZZZZZ	1		
12:03	ZZZZZZ	1		
12:05	ZZZZZZ	1		
12:06	MA56148-CCV7	1		
12:08	MA56148-CCB7	1		
12:10	ZZZZZZ	1		
12:11	ZZZZZZ	1		
12:13	ZZZZZZ	1		
12:14	ZZZZZZ	1		
12:16	ZZZZZZ	1		
12:17	ZZZZZZ	1		
12:19	ZZZZZZ	1		
12:20	ZZZZZZ	1		
12:22	MA56148-CCV8	1		
12:23	MA56148-CCB8	1		
12:25	ZZZZZZ	1		
12:27	ZZZZZZ	1		
12:28	MP46852-MB1	1		
12:30	MP46852-LB1	1		
12:31	MP46852-B1	1		
12:32	MP46852-LS1	1		
12:34	MP46852-S1	1		
12:36	MP46852-S2	1		
12:42	MA56148-CCV9	1		
12:46	MA56148-CCB9	1		
12:48	JD88876-21A	1		(sample used for QC only; not part of login JD87833R)
12:50	ZZZZZZ	1		
12:51	ZZZZZZ	1		
12:53	ZZZZZZ	1		
12:54	ZZZZZZ	1		
12:56	ZZZZZZ	1		
12:57	ZZZZZZ	1		
12:59	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052424W1.CSV Date Analyzed: 05/24/24 Methods: SW846 7470A
Analyst: CB Run ID: MA56148
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:00	MA56148-CCV10	1		
13:02	MA56148-CCB10	1		
13:04	ZZZZZZ	1		
13:05	ZZZZZZ	1		
13:06	MP46853-MB1	1		
13:08	MP46853-LB1	1		
13:09	MP46853-B1	1		
13:11	MP46853-LS1	1		
13:13	MP46853-S1	1		
13:15	MP46853-S2	1		
13:17	MA56148-CCV11	1		
13:19	MA56148-CCB11	1		
13:21	JD87671-8B	1		(sample used for QC only; not part of login JD87833R)
13:22	JD87833-1R	1		
13:24	JD87833-9R	1		
13:25	ZZZZZZ	1		
13:27	ZZZZZZ	1		
13:28	ZZZZZZ	1		
13:30	MA56148-CCV12	1		
13:31	MA56148-CCB12	1		
13:33	MP46876-MB1	1		
13:35	MP46876-B1	1		
13:36	MP46876-S1	1		
13:38	MP46876-S2	1		
13:40	JD88509-3	1		(sample used for QC only; not part of login JD87833R)
13:42	ZZZZZZ	1		
13:44	MP46853-MB1	1		
---------->	Last reportable sample/prep for job JD87833R			
13:45	MA56148-CCV13	1		
13:49	MA56148-CCB13	1		
---------->	Last reportable CCB for job JD87833R			

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052424W1.CSV Date Analyzed: 05/24/24 Methods: SW846 7470A
Analyst: CB Run ID: MA56148
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
10:16	ZZZZZZ	1		
10:17	MA56148-ICV1	1	X	
10:19	MA56148-ICB1	1	X	
10:21	MA56148-CCV1	1	X	
10:22	MA56148-CCB1	1	X	
10:24	MA56148-CRI1	1	X	
10:26	MP46849-MB1	1	X	
10:27	MP46849-B1	1	X	
10:29	MP46849-S1	1	X	
10:31	MP46849-S2	1	X	
10:33	JD88735-3	1	X	(a)
10:35	ZZZZZZ	1		
10:36	ZZZZZZ	1		
10:38	ZZZZZZ	1		
10:39	MA56148-CCV2	1	X	
10:41	MA56148-CCB2	1	X	
10:43	ZZZZZZ	1		
10:44	ZZZZZZ	1		
10:45	ZZZZZZ	1		
10:47	ZZZZZZ	1		
10:48	ZZZZZZ	1		
10:50	ZZZZZZ	1		
10:51	ZZZZZZ	1		
10:53	ZZZZZZ	1		
10:54	MA56148-CCV3	1	X	
10:58	MA56148-CCB3	1	X	
11:03	ZZZZZZ	1		
11:04	ZZZZZZ	1		
11:06	ZZZZZZ	1		
11:08	ZZZZZZ	1		
11:09	ZZZZZZ	1		
11:11	ZZZZZZ	1		
11:12	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052424W1.CSV Date Analyzed: 05/24/24 Methods: SW846 7470A
Analyst: CB Run ID: MA56148
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
11:14	MA56148-CCV4	1	X	
11:15	MA56148-CCB4	1	X	
11:17	MP46850-MB1	1	X	
11:19	MP46850-LB1	1		
11:20	MP46850-B1	1	X	
11:22	MP46850-LS1	1	X	
11:23	MP46850-S1	1	X	
11:25	MP46850-S2	1	X	
11:27	JD87424-5B	1	X	(a)
11:29	ZZZZZZ	1		
11:31	MA56148-CCV5	1	X	
11:35	MA56148-CCB5	1	X	
11:38	MP46851-MB1	1	X	
11:39	MP46851-LB1	1		
11:40	MP46851-B1	1	X	
11:42	MP46851-LS1	1	X	
11:44	MP46851-S1	1	X	
11:46	MP46851-S2	1	X	
11:48	JD88876-1A	1	X	(a)
11:50	ZZZZZZ	1		
11:51	MA56148-CCV6	1	X	
11:53	MA56148-CCB6	1	X	
11:55	ZZZZZZ	1		
11:56	ZZZZZZ	1		
11:57	ZZZZZZ	1		
11:59	ZZZZZZ	1		
12:00	ZZZZZZ	1		
12:02	ZZZZZZ	1		
12:03	ZZZZZZ	1		
12:05	ZZZZZZ	1		
12:06	MA56148-CCV7	1	X	
12:08	MA56148-CCB7	1	X	
12:10	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052424W1.CSV Date Analyzed: 05/24/24 Methods: SW846 7470A
Analyst: CB Run ID: MA56148
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
12:11	ZZZZZZ	1		
12:13	ZZZZZZ	1		
12:14	ZZZZZZ	1		
12:16	ZZZZZZ	1		
12:17	ZZZZZZ	1		
12:19	ZZZZZZ	1		
12:20	ZZZZZZ	1		
12:22	MA56148-CCV8	1	X	
12:23	MA56148-CCB8	1	X	
12:25	ZZZZZZ	1		
12:27	ZZZZZZ	1		
12:28	MP46852-MB1	1	X	
12:30	MP46852-LB1	1		
12:31	MP46852-B1	1	X	
12:32	MP46852-LS1	1	X	
12:34	MP46852-S1	1	X	
12:36	MP46852-S2	1	X	
12:42	MA56148-CCV9	1	X	
12:46	MA56148-CCB9	1	X	
12:48	JD88876-21A	1	X	(a)
12:50	ZZZZZZ	1		
12:51	ZZZZZZ	1		
12:53	ZZZZZZ	1		
12:54	ZZZZZZ	1		
12:56	ZZZZZZ	1		
12:57	ZZZZZZ	1		
12:59	ZZZZZZ	1		
13:00	MA56148-CCV10	1	X	
13:02	MA56148-CCB10	1	X	
13:04	ZZZZZZ	1		
13:05	ZZZZZZ	1		
13:06	MP46853-MB1	1		
13:08	MP46853-LB1	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052424W1.CSV Date Analyzed: 05/24/24 Methods: SW846 7470A
Analyst: CB Run ID: MA56148
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg
13:09	MP46853-B1	1	X
13:11	MP46853-LS1	1	X
13:13	MP46853-S1	1	X
13:15	MP46853-S2	1	X
13:17	MA56148-CCV11	1	X
13:19	MA56148-CCB11	1	X
13:21	JD87671-8B	1	X (a)
13:22	JD87833-1R	1	X
13:24	JD87833-9R	1	X
13:25	ZZZZZZ	1	
13:27	ZZZZZZ	1	
13:28	ZZZZZZ	1	
13:30	MA56148-CCV12	1	X
13:31	MA56148-CCB12	1	X
13:33	MP46876-MB1	1	X
13:35	MP46876-B1	1	X
13:36	MP46876-S1	1	X
13:38	MP46876-S2	1	X
13:40	JD88509-3	1	X (a)
13:42	ZZZZZZ	1	
13:44	MP46853-MB1	1	X
13:45	MA56148-CCV13	1	X
13:49	MA56148-CCB13	1	X

(a) Sample used for QC only; not part of login JD87833R.

Element: Hg

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052424W1.CSV Date Analyzed: 05/24/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56148 Units: ug/l

Time:			10:19		10:22		10:41		10:58	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.04	-0.0874	<0.20	-0.118	<0.20	-0.138	<0.20	-0.0727	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052424W1.CSV Date Analyzed: 05/24/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56148 Units: ug/l

Time:			11:15		11:35		11:53		12:08	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.04	-0.155	<0.20	-0.0554	<0.20	-0.144	<0.20	-0.189	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052424W1.CSV Date Analyzed: 05/24/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56148 Units: ug/l

Time:			12:23		12:46		13:02		13:19	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.04	-0.163	<0.20	-0.0890	<0.20	-0.185	<0.20	-0.130	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052424W1.CSV Date Analyzed: 05/24/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56148 Units: ug/l

Time:			13:31		13:49	
Sample ID:			CCB12		CCB13	
Metal	RL	IDL	raw	final	raw	final
Mercury	0.20	.04	-0.155	<0.20	-0.0629	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052424W1.CSV Date Analyzed: 05/24/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56148 Units: ug/l

Time:		10:17			10:21			10:39	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	3.05	101.7	2.5	2.50	100.0	2.5	2.39	95.6

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052424W1.CSV Date Analyzed: 05/24/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56148 Units: ug/l

Time:		10:54			11:14			11:31	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.37	94.8	2.5	2.32	92.8	2.5	2.36	94.4

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052424W1.CSV Date Analyzed: 05/24/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56148 Units: ug/l

Time:		11:51			12:06			12:22	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.29	91.6	2.5	2.42	96.8	2.5	2.31	92.4

(*) Outside of QC limits
(anr) Analyte not requested

8.1.3
8

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052424W1.CSV Date Analyzed: 05/24/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56148 Units: ug/l

Time:		12:42			13:00			13:17	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.39	95.6	2.5	2.48	99.2	2.5	2.35	94.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052424W1.CSV Date Analyzed: 05/24/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56148 Units: ug/l

Time:		13:30			13:45	
Sample ID:	CCV	CCV12		CCV	CCV13	
Metal	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.40	96.0	2.5	2.48	99.2

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052424W1.CSV Date Analyzed: 05/24/24 Methods: SW846 7470A
QC Limits: 70 to 130 % Recovery Run ID: MA56148 Units: ug/l

Time:			10:24	
Sample ID:	CRI	CRIA	CRI1	
Metal	True	True	Results	% Rec
Mercury	0.20		0.197	98.5

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052824W1.CSV Date Analyzed: 05/28/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56163
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:12	MA56163-STD1	1		b=2.0742e-004,c=-1.8744e-003,rho=0.9993059
10:13	MA56163-STD2	1		STDB
10:15	MA56163-STD3	1		STDC
10:16	MA56163-STD4	1		STDD
10:18	MA56163-STD5	1		STDE
10:20	MA56163-STD6	1		STDF
10:25	ZZZZZZ	1		
10:27	MA56163-ICV1	1		
10:32	MA56163-ICB1	1		
10:34	MA56163-CCV1	1		
10:35	MA56163-CCB1	1		
10:37	MA56163-CRI1	1		
10:39	MP46892-MB1	1		
10:40	MP46892-B1	1		
10:41	MP46892-S1	1		
10:43	MP46892-S2	1		
10:45	JD89071-2	1		(sample used for QC only; not part of login JD87833R)
10:47	ZZZZZZ	1		
10:48	ZZZZZZ	1		
10:50	ZZZZZZ	1		
10:51	MA56163-CCV2	1		
10:53	MA56163-CCB2	1		
10:55	ZZZZZZ	1		
10:56	MP46893-MB1	1		
10:58	MP46893-LB1	1		
10:59	MP46893-B1	1		
11:01	MP46893-LS1	1		
11:03	MP46893-S1	1		
11:04	MP46893-S2	1		
11:06	MA56163-CCV3	1		
11:08	MA56163-CCB3	1		
11:10	JD88942-1A	1		(sample used for QC only; not part of login JD87833R)
11:12	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052824W1.CSV Date Analyzed: 05/28/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56163
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:13	ZZZZZZ	1		
11:14	ZZZZZZ	1		
11:16	ZZZZZZ	1		
11:17	ZZZZZZ	1		
11:19	ZZZZZZ	1		
11:20	ZZZZZZ	1		
11:22	MA56163-CCV4	1		
11:23	MA56163-CCB4	1		
11:25	ZZZZZZ	1		
11:26	ZZZZZZ	1		
11:28	ZZZZZZ	1		
11:29	ZZZZZZ	1		
11:31	ZZZZZZ	1		
11:32	ZZZZZZ	1		
11:33	ZZZZZZ	1		
11:35	ZZZZZZ	1		
11:36	MA56163-CCV5	1		
11:38	MA56163-CCB5	1		
11:40	ZZZZZZ	1		
11:41	ZZZZZZ	1		
11:42	ZZZZZZ	1		
11:44	MP46894-MB1	1		
11:45	MP46894-LB1	1		
11:47	MP46894-B1	1		
11:48	MP46894-LS1	1		
11:50	MA56163-CCV6	1		
11:52	MA56163-CCB6	1		
11:54	MP46894-S1	1		
11:55	MP46894-S2	1		
11:57	JD88846-1	1		(sample used for QC only; not part of login JD87833R)
11:59	ZZZZZZ	1		
12:00	ZZZZZZ	1		
12:02	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052824W1.CSV Date Analyzed: 05/28/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56163
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:03	ZZZZZZ	1		
12:05	ZZZZZZ	1		
12:06	MA56163-CCV7	1		
12:08	MA56163-CCB7	1		
12:09	ZZZZZZ	1		
12:11	ZZZZZZ	1		
12:12	ZZZZZZ	1		
12:14	ZZZZZZ	1		
12:15	ZZZZZZ	1		
12:17	ZZZZZZ	1		
12:18	ZZZZZZ	1		
12:19	ZZZZZZ	1		
12:21	MA56163-CCV8	1		
12:22	MA56163-CCB8	1		
12:24	ZZZZZZ	1		
12:26	ZZZZZZ	1		
12:27	ZZZZZZ	1		
12:28	ZZZZZZ	1		
12:30	ZZZZZZ	1		
12:31	ZZZZZZ	1		
12:33	MA56163-CCV9	1		
12:34	MA56163-CCB9	1		
12:36	MP46895-MB1	1		
12:37	MP46895-LB1	1		
12:39	MP46895-B1	1		
12:40	MP46895-LS1	1		
12:42	MP46895-S1	1		
12:44	MP46895-S2	1		
12:46	JD88336-2	1		(sample used for QC only; not part of login JD87833R)
12:48	MA56163-CCV10	1		
12:50	MA56163-CCB10	1		
12:52	MP46896-MB1	1		
12:53	MP46896-LB1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052824W1.CSV Date Analyzed: 05/28/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56163
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:55	MP46896-B1	1		
12:56	MP46896-LS1	1		
12:58	MA56163-CCV11	1		
13:00	MA56163-CCB11	1		
13:02	MP46896-S1	1		
13:03	MP46896-S2	1		
13:05	JD87833-14R	1		
---------->	Last reportable sample/prep for job JD87833R			
13:07	ZZZZZZ	1		
13:09	ZZZZZZ	1		
13:10	MA56163-CCV12	1		
13:12	MA56163-CCB12	1		
---------->	Last reportable CCB for job JD87833R			
	Refer to raw data for calibration curve and standards.			

REPORTED ELEMENTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052824W1.CSV Date Analyzed: 05/28/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56163
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
10:25	ZZZZZZ	1		
10:27	MA56163-ICV1	1	X	
10:32	MA56163-ICB1	1	X	
10:34	MA56163-CCV1	1	X	
10:35	MA56163-CCB1	1	X	
10:37	MA56163-CRI1	1	X	
10:39	MP46892-MB1	1	X	
10:40	MP46892-B1	1	X	
10:41	MP46892-S1	1	X	
10:43	MP46892-S2	1	X	
10:45	JD89071-2	1	X	(a)
10:47	ZZZZZZ	1		
10:48	ZZZZZZ	1		
10:50	ZZZZZZ	1		
10:51	MA56163-CCV2	1	X	
10:53	MA56163-CCB2	1	X	
10:55	ZZZZZZ	1		
10:56	MP46893-MB1	1	X	
10:58	MP46893-LB1	1		
10:59	MP46893-B1	1	X	
11:01	MP46893-LS1	1	X	
11:03	MP46893-S1	1	X	
11:04	MP46893-S2	1	X	
11:06	MA56163-CCV3	1	X	
11:08	MA56163-CCB3	1	X	
11:10	JD88942-1A	1	X	(a)
11:12	ZZZZZZ	1		
11:13	ZZZZZZ	1		
11:14	ZZZZZZ	1		
11:16	ZZZZZZ	1		
11:17	ZZZZZZ	1		
11:19	ZZZZZZ	1		
11:20	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052824W1.CSV Date Analyzed: 05/28/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56163
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
11:22	MA56163-CCV4	1	X	
11:23	MA56163-CCB4	1	X	
11:25	ZZZZZZ	1		
11:26	ZZZZZZ	1		
11:28	ZZZZZZ	1		
11:29	ZZZZZZ	1		
11:31	ZZZZZZ	1		
11:32	ZZZZZZ	1		
11:33	ZZZZZZ	1		
11:35	ZZZZZZ	1		
11:36	MA56163-CCV5	1	X	
11:38	MA56163-CCB5	1	X	
11:40	ZZZZZZ	1		
11:41	ZZZZZZ	1		
11:42	ZZZZZZ	1		
11:44	MP46894-MB1	1	X	
11:45	MP46894-LB1	1		
11:47	MP46894-B1	1	X	
11:48	MP46894-LS1	1	X	
11:50	MA56163-CCV6	1	X	
11:52	MA56163-CCB6	1	X	
11:54	MP46894-S1	1	X	
11:55	MP46894-S2	1	X	
11:57	JD88846-1	1	X	(a)
11:59	ZZZZZZ	1		
12:00	ZZZZZZ	1		
12:02	ZZZZZZ	1		
12:03	ZZZZZZ	1		
12:05	ZZZZZZ	1		
12:06	MA56163-CCV7	1	X	
12:08	MA56163-CCB7	1	X	
12:09	ZZZZZZ	1		
12:11	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052824W1.CSV Date Analyzed: 05/28/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56163
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
12:12	ZZZZZZ	1		
12:14	ZZZZZZ	1		
12:15	ZZZZZZ	1		
12:17	ZZZZZZ	1		
12:18	ZZZZZZ	1		
12:19	ZZZZZZ	1		
12:21	MA56163-CCV8	1	X	
12:22	MA56163-CCB8	1	X	
12:24	ZZZZZZ	1		
12:26	ZZZZZZ	1		
12:27	ZZZZZZ	1		
12:28	ZZZZZZ	1		
12:30	ZZZZZZ	1		
12:31	ZZZZZZ	1		
12:33	MA56163-CCV9	1	X	
12:34	MA56163-CCB9	1	X	
12:36	MP46895-MB1	1	X	
12:37	MP46895-LB1	1		
12:39	MP46895-B1	1	X	
12:40	MP46895-LS1	1	X	
12:42	MP46895-S1	1	X	
12:44	MP46895-S2	1	X	
12:46	JD88336-2	1	X	(a)
12:48	MA56163-CCV10	1	X	
12:50	MA56163-CCB10	1	X	
12:52	MP46896-MB1	1	X	
12:53	MP46896-LB1	1		
12:55	MP46896-B1	1	X	
12:56	MP46896-LS1	1	X	
12:58	MA56163-CCV11	1	X	
13:00	MA56163-CCB11	1	X	
13:02	MP46896-S1	1	X	
13:03	MP46896-S2	1	X	
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052824W1.CSV Date Analyzed: 05/28/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56163
Parameters: Hg

Time	Sample Description	Element: Dilution	H g
13:05	JD87833-14R	1	X
13:07	ZZZZZZ	1	
13:09	ZZZZZZ	1	
13:10	MA56163-CCV12	1	X
13:12	MA56163-CCB12	1	X

(a) Sample used for QC only; not part of login JD87833R.

Element: H
g

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052824W1.CSV Date Analyzed: 05/28/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56163 Units: ug/l

Time:			10:32		10:35		10:53		11:08	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.04	-0.0284	<0.20	-0.132	<0.20	-0.130	<0.20	-0.126	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052824W1.CSV Date Analyzed: 05/28/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56163 Units: ug/l

Time: / Sample ID:			11:23 CCB4		11:38 CCB5		11:52 CCB6		12:08 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.04	-0.167	<0.20	-0.151	<0.20	-0.131	<0.20	-0.146	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052824W1.CSV Date Analyzed: 05/28/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56163 Units: ug/l

Time: / Sample ID:			12:22 CCB8		12:34 CCB9		12:50 CCB10		13:00 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.04	-0.136	<0.20	-0.140	<0.20	-0.153	<0.20	-0.109	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052824W1.CSV Date Analyzed: 05/28/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56163 Units: ug/l

Time:			13:12	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Mercury	0.20	.04	-0.174	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052824W1.CSV Date Analyzed: 05/28/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56163 Units: ug/l

Time:		10:27			10:34			10:51	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	3.27	109.0	2.5	2.67	106.8	2.5	2.51	100.4

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052824W1.CSV Date Analyzed: 05/28/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56163 Units: ug/l

Time:		11:06			11:22			11:36	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.49	99.6	2.5	2.54	101.6	2.5	2.49	99.6

(*) Outside of QC limits
(anr) Analyte not requested

8.2.3
8

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052824W1.CSV Date Analyzed: 05/28/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56163 Units: ug/l

Time:		11:50			12:06			12:21	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.50	100.0	2.5	2.51	100.4	2.5	2.49	99.6

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052824W1.CSV Date Analyzed: 05/28/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56163 Units: ug/l

Time:		12:33			12:48			12:58	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.49	99.6	2.5	2.44	97.6	2.5	2.44	97.6

(*) Outside of QC limits
(anr) Analyte not requested

8.2.3
8

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052824W1.CSV Date Analyzed: 05/28/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56163 Units: ug/l

Time:		13:10	
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Mercury	2.5	2.46	98.4

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9052824W1.CSV Date Analyzed: 05/28/24 Methods: SW846 7470A
QC Limits: 70 to 130 % Recovery Run ID: MA56163 Units: ug/l

Time:			10:37	
Sample ID:	CRI	CRIA	CRI1	
Metal	True	True	Results	% Rec
Mercury	0.20		0.151	75.5

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:09	MA56184-STD1	1		STDA
10:14	MA56184-STD2	1		STDB
10:20	MA56184-ICV1	1		
10:26	MA56184-ICB1	1		
10:37	MA56184-ICCV1	1		
10:48	MA56184-CCB1	1		
10:53	MA56184-CRI1	1		
10:58	MA56184-CRID1	1		
11:03	MA56184-ICSA1	1		
11:09	MA56184-ICSAB1	1		
11:14	MA56184-HSTD1	1		
11:20	MA56184-HSTD2	1		
11:25	ZZZZZZ	1		
11:31	ZZZZZZ	1		
12:02	ZZZZZZ	1		
12:07	ZZZZZZ	1		
12:12	MA56184-CCV1	1		
12:17	MA56184-CCB2	1		
12:22	ZZZZZZ	1		
12:27	ZZZZZZ	1		
12:32	ZZZZZZ	1		
12:37	ZZZZZZ	1		
12:42	MP46879-MB1	1		
12:47	MP46879-B1	1		
12:52	MP46879-S1	1		
12:57	MP46879-S2	1		
13:03	MP46879-LC1	1		Ag high
13:08	MP46879-LC2	1		
13:13	MA56184-CCV2	1		
13:18	MA56184-CCB3	1		
13:23	JD88949-16	1		(sample used for QC only; not part of login JD87833R)
13:28	MP46879-SD1	5		
13:33	MP46879-PS1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:38	ZZZZZZ	1		
13:43	ZZZZZZ	1		
13:48	ZZZZZZ	1		
13:53	ZZZZZZ	1		
13:58	ZZZZZZ	1		
14:03	ZZZZZZ	1		
14:08	ZZZZZZ	1		
14:13	MA56184-CCV3	1		
14:18	MA56184-CCB4	1		
14:23	MP46925-MB1	1		
14:28	MP46925-B1	1		
14:33	MP46925-S1	1		Ca high
14:38	MP46925-S2	1		Ca high
14:44	JD89298-1	1		(sample used for QC only; not part of login JD87833R)
14:49	MP46925-SD1	5		Ca high
14:54	MP46925-PS1	1		
15:00	ZZZZZZ	1		
15:05	ZZZZZZ	1		
15:10	ZZZZZZ	1		
15:15	MA56184-CCV4	1		
15:20	MA56184-CCB5	1		
15:25	ZZZZZZ	1		
15:30	ZZZZZZ	1		
15:35	ZZZZZZ	1		
15:40	ZZZZZZ	1		
15:45	ZZZZZZ	1		
15:50	ZZZZZZ	1		
15:55	ZZZZZZ	1		
16:01	ZZZZZZ	1		
16:06	ZZZZZZ	1		
16:11	ZZZZZZ	1		
16:16	MA56184-CCV5	1		
16:22	MA56184-CCB6	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:26	ZZZZZZ	1		
16:32	ZZZZZZ	1		
16:37	ZZZZZZ	1		
16:42	ZZZZZZ	1		
16:47	ZZZZZZ	1		
16:52	ZZZZZZ	1		
16:57	MP46926-MB1	1		
17:02	MP46926-B1	1		
17:07	MP46926-S1	1		
17:13	MP46926-S2	1		
17:19	MA56184-CCV6	1		
17:24	MA56184-CCB7	1		
17:29	JD89298-21	1		(sample used for QC only; not part of login JD87833R)
17:34	MP46926-SD1	5		
17:39	MP46926-PS1	1		
17:45	ZZZZZZ	1		
17:50	ZZZZZZ	1		
17:55	ZZZZZZ	1		
18:00	ZZZZZZ	1		
18:05	ZZZZZZ	1		
18:10	ZZZZZZ	1		
18:15	ZZZZZZ	1		
18:20	MA56184-CCV7	1		
18:25	MA56184-CCB8	1		
18:30	ZZZZZZ	1		
18:35	ZZZZZZ	1		
18:40	ZZZZZZ	1		
18:45	ZZZZZZ	1		
18:50	ZZZZZZ	1		
18:55	ZZZZZZ	1		
19:00	ZZZZZZ	1		
19:04	ZZZZZZ	1		
19:09	MA56184-CCV8	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:15	MA56184-CCB9	1		
19:20	MP46885-MB1	1		rerun for Al, PB and AS
19:25	MP46885-B1	1		
19:30	MP46885-B2	1		
19:35	MP46885-S1	1		rerun for As with the QC sample
19:40	MP46885-S2	1		
19:45	ZZZZZZ	1		
19:50	MP46885-SD1	5		wrong sample used
19:55	ZZZZZZ	1		
20:00	MA56184-CCV9	1		
20:05	MA56184-CCB10	1		
20:10	ZZZZZZ	1		
20:15	ZZZZZZ	1		
20:20	ZZZZZZ	1		
20:25	JD89053-5	1		(sample used for QC only; not part of login JD87833R)
20:30	ZZZZZZ	1		
20:35	ZZZZZZ	1		
20:40	ZZZZZZ	1		
20:45	ZZZZZZ	1		
20:50	ZZZZZZ	1		
20:55	ZZZZZZ	1		
21:00	MA56184-CCV10	1		
21:05	MA56184-CCB11	1		
21:10	ZZZZZZ	1		
21:15	MP46865-MB1	1		
21:20	MP46865-B1	1		Low recovery for Ag, rerun or redigest batch
21:25	MP46865-S1	1		
21:30	MP46865-S2	1		
21:35	JD87880-11R	1		(sample used for QC only; not part of login JD87833R)
21:40	MP46865-SD1	5		
21:45	MP46865-PS1	1		
21:50	ZZZZZZ	1		
21:56	MA56184-CCV11	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
22:01	MA56184-CCB12	1		
22:06	ZZZZZZ	1		
22:11	ZZZZZZ	1		
22:16	ZZZZZZ	1		
22:22	ZZZZZZ	1		
22:27	ZZZZZZ	1		
22:33	ZZZZZZ	1		
22:38	ZZZZZZ	1		
22:43	ZZZZZZ	1		
22:48	ZZZZZZ	1		
22:53	ZZZZZZ	1		
22:58	MA56184-CCV12	1		
23:03	MA56184-CCB13	1		
23:08	ZZZZZZ	1		
23:13	ZZZZZZ	1		
23:18	ZZZZZZ	1		
23:23	ZZZZZZ	1		
23:29	ZZZZZZ	1		
23:35	ZZZZZZ	1		
23:40	ZZZZZZ	1		
23:44	MP46878-MB1	1		
23:49	MP46878-B1	1		
23:54	MP46878-S1	1		
00:00	MA56184-CCV13	1		
00:05	MA56184-CCB14	1		
00:10	MP46878-S2	1		
00:15	ZZZZZZ	1		
00:15	JD88972-2	1		(sample used for QC only; not part of login JD87833R)
00:20	MP46878-SD1	5		rerun for Zn
00:25	MP46878-PS1	1		
00:30	ZZZZZZ	1		
00:34	ZZZZZZ	1		
00:39	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:44	ZZZZZZ	1		
00:49	ZZZZZZ	1		
00:54	ZZZZZZ	1		
00:59	MA56184-CCV14	1		
01:04	MA56184-CCB15	1		
01:09	ZZZZZZ	1		
01:15	ZZZZZZ	1		
01:21	ZZZZZZ	1		
01:26	ZZZZZZ	1		
01:30	ZZZZZZ	1		
01:35	ZZZZZZ	1		
01:41	ZZZZZZ	1		
01:46	ZZZZZZ	1		
01:51	ZZZZZZ	1		
01:56	ZZZZZZ	1		
02:01	MA56184-CCV15	1		
02:07	MA56184-CCB16	1		
02:12	ZZZZZZ	1		
02:17	ZZZZZZ	1		
02:22	ZZZZZZ	1		
02:27	MP46890-MB1	1		
02:32	MP46890-LB1	1		
02:37	MP46890-B1	1		
02:42	MP46890-LS1	1		
02:47	MP46890-S1	1		needs post spike for AS
02:52	MP46890-S2	1		
02:57	JD87833-1R	1		
03:02	MA56184-CCV16	1		
03:07	MA56184-CCB17	1		
03:12	MP46890-SD1	5		
03:17	ZZZZZZ	1		
03:22	ZZZZZZ	1		
03:28	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Dilution Factor	PS Recov	Comments
03:33	JD87833-9R	1		
03:38	JD87833-11R	1		
---------->	Last reportable sample/prep for job JD87833R			
03:43	ZZZZZZ	1		
03:48	MA56184-CCV17	1		
03:53	MA56184-CCB18	1		
---------->	Last reportable CCB for job JD87833R			
03:58	ZZZZZZ	1		
04:03	ZZZZZZ	1		
04:08	ZZZZZZ	1		
04:13	ZZZZZZ	1		
04:18	ZZZZZZ	1		
04:23	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Element: Dilution	P b	
10:20	MA56184-ICV1	1	X	
10:26	MA56184-ICB1	1	X	
10:37	MA56184-ICCV1	1	X	
10:48	MA56184-CCB1	1	X	
10:53	MA56184-CRI1	1	X	
10:58	MA56184-CRID1	1	X	
11:03	MA56184-ICSA1	1	X	
11:09	MA56184-ICSAB1	1	X	
11:14	MA56184-HSTD1	1	X	
11:20	MA56184-HSTD2	1	X	
11:25	ZZZZZZ	1		
11:31	ZZZZZZ	1		
12:02	ZZZZZZ	1		
12:07	ZZZZZZ	1		
12:12	MA56184-CCV1	1	X	
12:17	MA56184-CCB2	1	X	
12:22	ZZZZZZ	1		
12:27	ZZZZZZ	1		
12:32	ZZZZZZ	1		
12:37	ZZZZZZ	1		
12:42	MP46879-MB1	1	X	
12:47	MP46879-B1	1	X	
12:52	MP46879-S1	1	X	
12:57	MP46879-S2	1	X	
13:03	MP46879-LC1	1	X	
13:08	MP46879-LC2	1	X	
13:13	MA56184-CCV2	1	X	
13:18	MA56184-CCB3	1	X	
13:23	JD88949-16	1	X	(a)
13:28	MP46879-SD1	5	X	
13:33	MP46879-PS1	1		
13:38	ZZZZZZ	1		
13:43	ZZZZZZ	1		
		Element:	P b	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Element: Dilution	P b	
13:48	ZZZZZZ	1		
13:53	ZZZZZZ	1		
13:58	ZZZZZZ	1		
14:03	ZZZZZZ	1		
14:08	ZZZZZZ	1		
14:13	MA56184-CCV3	1	X	
14:18	MA56184-CCB4	1	X	
14:23	MP46925-MB1	1	X	
14:28	MP46925-B1	1	X	
14:33	MP46925-S1	1	X	
14:38	MP46925-S2	1	X	
14:44	JD89298-1	1	X	(a)
14:49	MP46925-SD1	5	X	
14:54	MP46925-PS1	1		
15:00	ZZZZZZ	1		
15:05	ZZZZZZ	1		
15:10	ZZZZZZ	1		
15:15	MA56184-CCV4	1	X	
15:20	MA56184-CCB5	1	X	
15:25	ZZZZZZ	1		
15:30	ZZZZZZ	1		
15:35	ZZZZZZ	1		
15:40	ZZZZZZ	1		
15:45	ZZZZZZ	1		
15:50	ZZZZZZ	1		
15:55	ZZZZZZ	1		
16:01	ZZZZZZ	1		
16:06	ZZZZZZ	1		
16:11	ZZZZZZ	1		
16:16	MA56184-CCV5	1	X	
16:22	MA56184-CCB6	1	X	
16:26	ZZZZZZ	1		
16:32	ZZZZZZ	1		
		Element:	P b	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Element: Dilution	P b	
16:37	ZZZZZZ	1		
16:42	ZZZZZZ	1		
16:47	ZZZZZZ	1		
16:52	ZZZZZZ	1		
16:57	MP46926-MB1	1	X	
17:02	MP46926-B1	1	X	
17:07	MP46926-S1	1	X	
17:13	MP46926-S2	1	X	
17:19	MA56184-CCV6	1	X	
17:24	MA56184-CCB7	1	X	
17:29	JD89298-21	1	X	(a)
17:34	MP46926-SD1	5	X	
17:39	MP46926-PS1	1		
17:45	ZZZZZZ	1		
17:50	ZZZZZZ	1		
17:55	ZZZZZZ	1		
18:00	ZZZZZZ	1		
18:05	ZZZZZZ	1		
18:10	ZZZZZZ	1		
18:15	ZZZZZZ	1		
18:20	MA56184-CCV7	1	X	
18:25	MA56184-CCB8	1	X	
18:30	ZZZZZZ	1		
18:35	ZZZZZZ	1		
18:40	ZZZZZZ	1		
18:45	ZZZZZZ	1		
18:50	ZZZZZZ	1		
18:55	ZZZZZZ	1		
19:00	ZZZZZZ	1		
19:04	ZZZZZZ	1		
19:09	MA56184-CCV8	1	X	
19:15	MA56184-CCB9	1	X	
19:20	MP46885-MB1	1		
		Element:	P b	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Element: Dilution	P b
19:25	MP46885-B1	1	X
19:30	MP46885-B2	1	X
19:35	MP46885-S1	1	X
19:40	MP46885-S2	1	X
19:45	ZZZZZZ	1	
19:50	MP46885-SD1	5	wrong sample used
19:55	ZZZZZZ	1	
20:00	MA56184-CCV9	1	X
20:05	MA56184-CCB10	1	X
20:10	ZZZZZZ	1	
20:15	ZZZZZZ	1	
20:20	ZZZZZZ	1	
20:25	JD89053-5	1	X (a)
20:30	ZZZZZZ	1	
20:35	ZZZZZZ	1	
20:40	ZZZZZZ	1	
20:45	ZZZZZZ	1	
20:50	ZZZZZZ	1	
20:55	ZZZZZZ	1	
21:00	MA56184-CCV10	1	X
21:05	MA56184-CCB11	1	X
21:10	ZZZZZZ	1	
21:15	MP46865-MB1	1	X
21:20	MP46865-B1	1	X
21:25	MP46865-S1	1	X
21:30	MP46865-S2	1	X
21:35	JD87880-11R	1	X (a)
21:40	MP46865-SD1	5	X
21:45	MP46865-PS1	1	
21:50	ZZZZZZ	1	
21:56	MA56184-CCV11	1	X
22:01	MA56184-CCB12	1	X
22:06	ZZZZZZ	1	
		Element:	P b

REPORTED ELEMENTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Element: Dilution	P b	
22:11	ZZZZZZ	1		
22:16	ZZZZZZ	1		
22:22	ZZZZZZ	1		
22:27	ZZZZZZ	1		
22:33	ZZZZZZ	1		
22:38	ZZZZZZ	1		
22:43	ZZZZZZ	1		
22:48	ZZZZZZ	1		
22:53	ZZZZZZ	1		
22:58	MA56184-CCV12	1	X	
23:03	MA56184-CCB13	1	X	
23:08	ZZZZZZ	1		
23:13	ZZZZZZ	1		
23:18	ZZZZZZ	1		
23:23	ZZZZZZ	1		
23:29	ZZZZZZ	1		
23:35	ZZZZZZ	1		
23:40	ZZZZZZ	1		
23:44	MP46878-MB1	1	X	
23:49	MP46878-B1	1	X	
23:54	MP46878-S1	1	X	
00:00	MA56184-CCV13	1	X	
00:05	MA56184-CCB14	1	X	
00:10	MP46878-S2	1	X	
00:15	ZZZZZZ	1		
00:15	JD88972-2	1	X	(a)
00:20	MP46878-SD1	5	X	
00:25	MP46878-PS1	1		
00:30	ZZZZZZ	1		
00:34	ZZZZZZ	1		
00:39	ZZZZZZ	1		
00:44	ZZZZZZ	1		
00:49	ZZZZZZ	1		
		Element:	P b	

REPORTED ELEMENTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Element: Dilution	P b
00:54	ZZZZZZ	1	
00:59	MA56184-CCV14	1	X
01:04	MA56184-CCB15	1	X
01:09	ZZZZZZ	1	
01:15	ZZZZZZ	1	
01:21	ZZZZZZ	1	
01:26	ZZZZZZ	1	
01:30	ZZZZZZ	1	
01:35	ZZZZZZ	1	
01:41	ZZZZZZ	1	
01:46	ZZZZZZ	1	
01:51	ZZZZZZ	1	
01:56	ZZZZZZ	1	
02:01	MA56184-CCV15	1	X
02:07	MA56184-CCB16	1	X
02:12	ZZZZZZ	1	
02:17	ZZZZZZ	1	
02:22	ZZZZZZ	1	
02:27	MP46890-MB1	1	X
02:32	MP46890-LB1	1	
02:37	MP46890-B1	1	X
02:42	MP46890-LS1	1	X
02:47	MP46890-S1	1	X
02:52	MP46890-S2	1	X
02:57	JD87833-1R	1	X
03:02	MA56184-CCV16	1	X
03:07	MA56184-CCB17	1	X
03:12	MP46890-SD1	5	X
03:17	ZZZZZZ	1	
03:22	ZZZZZZ	1	
03:28	ZZZZZZ	1	
03:33	JD87833-9R	1	X
03:38	JD87833-11R	1	X
		Element:	P b

REPORTED ELEMENTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Element: Dilution	P b
03:43	ZZZZZZ	1	
03:48	MA56184-CCV17	1	X
03:53	MA56184-CCB18	1	X
03:58	ZZZZZZ	1	
04:03	ZZZZZZ	1	
04:08	ZZZZZZ	1	
04:13	ZZZZZZ	1	
04:18	ZZZZZZ	1	
04:23	ZZZZZZ	1	

(a) Sample used for QC only; not part of login JD87833R.

Element: P
b

INTERNAL STANDARD SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:09	MA56184-STD1	6914 R	161090 R	23993 R	15363 R
10:14	MA56184-STD2	6487	148860	23159	13582
10:20	MA56184-ICV1	6741	155870	23641	14105
10:26	MA56184-ICB1	7074	165190	24219	15557
10:37	MA56184-ICCV1	6806	159940	24061	14095
10:48	MA56184-CCB1	6998	166170	24576	15411
10:53	MA56184-CRI1	6928	160670	24377	15184
10:58	MA56184-CRID1	6940	160670	24216	15306
11:03	MA56184-ICSA1	6299	139760	23073	12790
11:09	MA56184-ICSAB1	6286	140400	23082	12801
11:14	MA56184-HSTD1	6738	160240	24447	14981
11:20	MA56184-HSTD2	6375	141820	22943	12844
11:25	ZZZZZZ	6931	161070	24031	15534
11:31	ZZZZZZ	7149	151230	24040	14079
12:02	ZZZZZZ	6926	161620	23616	15588
12:07	ZZZZZZ	6905	159050	23951	15604
12:12	MA56184-CCV1	6659	151080	23285	13980
12:17	MA56184-CCB2	6934	160970	24008	15410
12:22	ZZZZZZ	6433	147280	23069	13487
12:27	ZZZZZZ	6904	161510	23667	15291
12:32	ZZZZZZ	6889	158920	23495	15631
12:37	ZZZZZZ	6833	157700	23136	15299
12:42	MP46879-MB1	6990	162670	24003	15546
12:47	MP46879-B1	6824	158250	23721	14572
12:52	MP46879-S1	6979	161120	24390	14498
12:57	MP46879-S2	7020	163980	24604	14500
13:03	MP46879-LC1	7185	167950	25275	14547
13:08	MP46879-LC2	7148	166530	24920	14556
13:13	MA56184-CCV2	6722	155010	23310	14147
13:18	MA56184-CCB3	6999	162180	23812	15547
13:23	JD88949-16	7165	161860	24880	15154
13:28	MP46879-SD1	7055	165470	24033	15277
13:33	MP46879-PS1	6964	160760	24586	14628

INTERNAL STANDARD SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:38	ZZZZZZ	7186	165180	24494	15329
13:43	ZZZZZZ	7373	170520	25429	15588
13:48	ZZZZZZ	7344	168260	25196	15477
13:53	ZZZZZZ	7388	174660	25367	15435
13:58	ZZZZZZ	7259	171420	25019	15243
14:03	ZZZZZZ	7288	168160	25153	15437
14:08	ZZZZZZ	7281	167630	25533	15215
14:13	MA56184-CCV3	6787	154900	23619	14336
14:18	MA56184-CCB4	7052	164190	24112	15757
14:23	MP46925-MB1	7039	165010	24208	15794
14:28	MP46925-B1	6825	158670	23854	14723
14:33	MP46925-S1	6701	151620	24236	13410
14:38	MP46925-S2	6768	152700	24140	13598
14:44	JD89298-1	7060	158520	24736	14110
14:49	MP46925-SD1	7163	167440	24326	15107
14:54	MP46925-PS1	7015	161660	24855	13920
15:00	ZZZZZZ	6869	161260	24622	13555
15:05	ZZZZZZ	6830	156220	24331	13602
15:10	ZZZZZZ	7194	161660	25080	15002
15:15	MA56184-CCV4	6773	154370	23581	14359
15:20	MA56184-CCB5	7049	161290	23924	15804
15:25	ZZZZZZ	6801	153870	24138	13662
15:30	ZZZZZZ	7094	161840	24098	15310
15:35	ZZZZZZ	6839	154990	24372	13562
15:40	ZZZZZZ	7450	172700	25691	15360
15:45	ZZZZZZ	7067	163000	24774	14195
15:50	ZZZZZZ	7247	169970	24740	15190
15:55	ZZZZZZ	7247	165020	25057	14778
16:01	ZZZZZZ	7199	163070	25427	14417
16:06	ZZZZZZ	7493	169550	26194	15240
16:11	ZZZZZZ	7039	158200	24617	14184
16:16	MA56184-CCV5	6773	155460	23329	14415
16:22	MA56184-CCB6	7049	163370	23657	15830

INTERNAL STANDARD SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:26	ZZZZZZ	7424	167290	24928	15224
16:32	ZZZZZZ	7447	168700	25384	15252
16:37	ZZZZZZ	7138	162360	25130	14177
16:42	ZZZZZZ	7049	164240	24732	13997
16:47	ZZZZZZ	7257	165560	25200	14885
16:52	ZZZZZZ	7399	166830	25604	15094
16:57	MP46926-MB1	7167	166090	24500	16064
17:02	MP46926-B1	6896	158240	23831	14907
17:07	MP46926-S1	7107	159640	25059	14396
17:13	MP46926-S2	7158	162070	25234	14512
17:19	MA56184-CCV6	6831	156770	23370	14544
17:24	MA56184-CCB7	7096	165130	23784	15945
17:29	JD89298-21	7290	164140	24981	14930
17:34	MP46926-SD1	7245	170260	24312	15537
17:39	MP46926-PS1	7199	168300	25277	14517
17:45	ZZZZZZ	7468	175610	25568	15213
17:50	ZZZZZZ	7124	162190	24864	14698
17:55	ZZZZZZ	7250	162240	24805	15137
18:00	ZZZZZZ	7190	164780	24738	15645
18:05	ZZZZZZ	7202	163760	24439	15622
18:10	ZZZZZZ	7197	165870	24400	15611
18:15	ZZZZZZ	7340	170130	25110	15688
18:20	MA56184-CCV7	6872	158160	23347	14662
18:25	MA56184-CCB8	7143	169750	23888	16007
18:30	ZZZZZZ	7283	170620	24651	15591
18:35	ZZZZZZ	7301	170120	25281	14513
18:40	ZZZZZZ	7368	166520	25004	15070
18:45	ZZZZZZ	7116	167040	24077	15639
18:50	ZZZZZZ	7122	166250	24209	15506
18:55	ZZZZZZ	7094	169260	24124	15473
19:00	ZZZZZZ	7173	167240	24300	15558
19:04	ZZZZZZ	7266	164520	24422	15348
19:09	MA56184-CCV8	6819	159780	23265	14600

INTERNAL STANDARD SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
19:15	MA56184-CCB9	7112	170420	23674	16030
19:20	MP46885-MB1	7091	163830	23869	15939
19:25	MP46885-B1	6830	161950	23444	14647
19:30	MP46885-B2	6843	162350	23457	14814
19:35	MP46885-S1	6702	156560	23143	14310
19:40	MP46885-S2	6733	155470	23319	14348
19:45	ZZZZZZ	6754	157760	23379	14598
19:50	MP46885-SD1	No results reported for the elements associated with this internal standard.			
19:55	ZZZZZZ	6660	152260	23156	13798
20:00	MA56184-CCV9	6767	156030	23005	14551
20:05	MA56184-CCB10	7067	166260	23728	16044
20:10	ZZZZZZ	6618	149280	23246	13261
20:15	ZZZZZZ	6606	149800	22966	13805
20:20	ZZZZZZ	6532	147450	22846	13501
20:25	JD89053-5	6847	159560	23083	14925
20:30	ZZZZZZ	6908	163640	23401	15165
20:35	ZZZZZZ	7040	192520	23854	15170
20:40	ZZZZZZ	7008	163300	23278	15374
20:45	ZZZZZZ	7074	166630	23511	15750
20:50	ZZZZZZ	6780	157740	23185	14683
20:55	ZZZZZZ	6683	155940	23006	14559
21:00	MA56184-CCV10	6848	157930	23106	14802
21:05	MA56184-CCB11	7099	169640	23683	16215
21:10	ZZZZZZ	6699	155570	23147	14571
21:15	MP46865-MB1	7123	168510	24049	16283
21:20	MP46865-B1	6885	162160	23464	15141
21:25	MP46865-S1	7119	163530	24747	15074
21:30	MP46865-S2	7162	166690	24767	15065
21:35	JD87880-11R	7445	168930	25005	15975
21:40	MP46865-SD1	7233	170880	24048	16020
21:45	MP46865-PS1	7071	164130	24770	15146
21:50	ZZZZZZ	6686	156550	24229	14227
21:56	MA56184-CCV11	6837	158050	23393	14802

INTERNAL STANDARD SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
22:01	MA56184-CCB12	7109	156460	23795	16234
22:06	ZZZZZZ	7125	169850	24747	15708
22:11	ZZZZZZ	7195	170180	25116	15643
22:16	ZZZZZZ	6242	149380	23262	14458
22:22	ZZZZZZ	6189	147190	23148	14388
22:27	ZZZZZZ	7246	171200	24884	15957
22:33	ZZZZZZ	7312	172660	24763	16066
22:38	ZZZZZZ	6348	149340	23483	13837
22:43	ZZZZZZ	7184	167010	24287	15828
22:48	ZZZZZZ	7262	167700	24716	15983
22:53	ZZZZZZ	7382	167080	24521	16071
22:58	MA56184-CCV12	6780	158610	23229	14715
23:03	MA56184-CCB13	7177	170570	23770	16370
23:08	ZZZZZZ	7490	169710	25292	15737
23:13	ZZZZZZ	7253	167630	24207	16017
23:18	ZZZZZZ	7264	167480	24173	16008
23:23	ZZZZZZ	6321	149110	23151	14563
23:29	ZZZZZZ	6043	144380	22513	14350
23:35	ZZZZZZ	7170	165430	24424	15186
23:40	ZZZZZZ	7345	171800	24588	16113
23:44	MP46878-MB1	7230	171850	24038	16595
23:49	MP46878-B1	6984	162460	23576	15397
23:54	MP46878-S1	7033	162160	23538	15267
00:00	MA56184-CCV13	6852	159040	22950	14956
00:05	MA56184-CCB14	7167	168890	23519	16522
00:10	MP46878-S2	7040	160700	23499	15256
00:15	ZZZZZZ	No results reported for the elements associated with this internal standard.			
00:15	JD88972-2	7238	169200	23883	16356
00:20	MP46878-SD1	7343	167960	23714	16678
00:25	MP46878-PS1	6942	162190	23585	15485
00:30	ZZZZZZ	7299	169500	24349	16146
00:34	ZZZZZZ	7290	170700	24376	16222
00:39	ZZZZZZ	7333	171340	24443	16118

INTERNAL STANDARD SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
00:44	ZZZZZZ	7299	170550	24259	15998
00:49	ZZZZZZ	7257	170580	24186	16345
00:54	ZZZZZZ	7033	166810	24106	15603
00:59	MA56184-CCV14	6827	147710	22913	14947
01:04	MA56184-CCB15	7115	168330	23102	16468
01:09	ZZZZZZ	5935	136670	22067	13380
01:15	ZZZZZZ	6773	162710	23578	14677
01:21	ZZZZZZ	7272	176910	24407	15935
01:26	ZZZZZZ	7254	182880	24021	16239
01:30	ZZZZZZ	7199	168200	23736	16131
01:35	ZZZZZZ	7080	164090	24267	15354
01:41	ZZZZZZ	7293	169520	24118	16050
01:46	ZZZZZZ	6250	145900	22636	13522
01:51	ZZZZZZ	7284	171400	23952	16249
01:56	ZZZZZZ	7443	169460	24923	15584
02:01	MA56184-CCV15	6764	156350	22542	14869
02:07	MA56184-CCB16	7054	166010	22853	16337
02:12	ZZZZZZ	7451	170330	24991	15565
02:17	ZZZZZZ	7402	169470	24875	15604
02:22	ZZZZZZ	7661	173030	25669	15802
02:27	MP46890-MB1	7111	168020	22961	16431
02:32	MP46890-LB1	7059	166990	22844	16388
02:37	MP46890-B1	6822	157160	22641	15209
02:42	MP46890-LS1	6863	159370	22547	15260
02:47	MP46890-S1	6880	159570	22717	15271
02:52	MP46890-S2	6880	160540	22613	15275
02:57	JD87833-1R	7105	166100	22957	16070
03:02	MA56184-CCV16	6772	155090	22132	14880
03:07	MA56184-CCB17	7034	165690	22687	16321
03:12	MP46890-SD1	7017	163640	22512	16214
03:17	ZZZZZZ	6419	147220	21748	13873
03:22	ZZZZZZ	6464	149960	21782	13985
03:28	ZZZZZZ	6517	147820	21876	14098

INTERNAL STANDARD SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56184
Parameters: Pb

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
03:33	JD87833-9R	7001	163820	22678	16073
03:38	JD87833-11R	7042	165730	22587	16081
03:43	ZZZZZZ	6500	149070	21943	14081
03:48	MA56184-CCV17	6746	155670	21988	14849
03:53	MA56184-CCB18	6987	166030	22561	16186
03:58	ZZZZZZ	7094	165820	22775	16491
04:03	ZZZZZZ	6903	165800	22627	16308
04:08	ZZZZZZ	7065	165390	22686	16440
04:13	ZZZZZZ	7186	169920	23171	16562
04:18	ZZZZZZ	7036	165830	22800	16310
04:23	ZZZZZZ	6991	163930	22632	16337

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56184 Units: ug/l

Time:			10:26		10:48		12:17		13:18	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	27	anr							
Antimony	6.0	2.2	anr							
Arsenic	3.0	1.3	anr							
Barium	200	1	anr							
Beryllium	1.0	.2	anr							
Bismuth	20	2.1								
Boron	100	1								
Cadmium	3.0	.2	anr							
Calcium	5000	7.7	anr							
Cerium	100									
Chromium	10	.5	anr							
Cobalt	50	.4	anr							
Copper	10	6.8	anr							
Iron	100	15	anr							
Lead	3.0	1.6	1.30	<3.0	-0.100	<3.0	0.600	<3.0	-0.600	<3.0
Lithium	50	3.7								
Magnesium	5000	54	anr							
Manganese	15	.1	anr							
Molybdenum	20	.5								
Nickel	10	.3	anr							
Phosphorus	50	1.8								
Potassium	10000	77	anr							
Selenium	10	2	anr							
Silicon	200	1.3								
Silver	10	.9	anr							
Sodium	10000	23	anr							
Strontium	10	.4								
Sulfur	50	4.1								
Thallium	10	1.6	anr							
Tin	10	.9								
Titanium	10	.9								
Tungsten	50	2								
Vanadium	50	.8	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56184 Units: ug/l

Time:			10:26		10:48		12:17		13:18	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.2	anr							
Zirconium	10	.5								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56184 Units: ug/l

Time:			14:18		15:20		16:22		17:24	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	27	anr							
Antimony	6.0	2.2	anr							
Arsenic	3.0	1.3	anr							
Barium	200	1	anr							
Beryllium	1.0	.2	anr							
Bismuth	20	2.1								
Boron	100	1								
Cadmium	3.0	.2	anr							
Calcium	5000	7.7	anr							
Cerium	100									
Chromium	10	.5	anr							
Cobalt	50	.4	anr							
Copper	10	6.8	anr							
Iron	100	15	anr							
Lead	3.0	1.6	-0.900	<3.0	-1.10	<3.0	-1.70	<3.0	-2.10	<3.0
Lithium	50	3.7								
Magnesium	5000	54	anr							
Manganese	15	.1	anr							
Molybdenum	20	.5								
Nickel	10	.3	anr							
Phosphorus	50	1.8								
Potassium	10000	77	anr							
Selenium	10	2	anr							
Silicon	200	1.3								
Silver	10	.9	anr							
Sodium	10000	23	anr							
Strontium	10	.4								
Sulfur	50	4.1								
Thallium	10	1.6	anr							
Tin	10	.9								
Titanium	10	.9								
Tungsten	50	2								
Vanadium	50	.8	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56184 Units: ug/l

Time: / Sample ID:			14:18 CCB4		15:20 CCB5		16:22 CCB6		17:24 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.2	anr							
Zirconium	10	.5								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56184 Units: ug/l

Time:			18:25		19:15		20:05		21:05	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	27	anr							
Antimony	6.0	2.2	anr							
Arsenic	3.0	1.3	anr							
Barium	200	1	anr							
Beryllium	1.0	.2	anr							
Bismuth	20	2.1								
Boron	100	1								
Cadmium	3.0	.2	anr							
Calcium	5000	7.7	anr							
Cerium	100									
Chromium	10	.5	anr							
Cobalt	50	.4	anr							
Copper	10	6.8	anr							
Iron	100	15	anr							
Lead	3.0	1.6	-1.40	<3.0	-2.30	<3.0	-2.50	<3.0	-2.10	<3.0
Lithium	50	3.7								
Magnesium	5000	54	anr							
Manganese	15	.1	anr							
Molybdenum	20	.5								
Nickel	10	.3	anr							
Phosphorus	50	1.8								
Potassium	10000	77	anr							
Selenium	10	2	anr							
Silicon	200	1.3								
Silver	10	.9	anr							
Sodium	10000	23	anr							
Strontium	10	.4								
Sulfur	50	4.1								
Thallium	10	1.6	anr							
Tin	10	.9								
Titanium	10	.9								
Tungsten	50	2								
Vanadium	50	.8	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56184 Units: ug/l

Time: / Sample ID:			18:25 CCB8		19:15 CCB9		20:05 CCB10		21:05 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.2	anr							
Zirconium	10	.5								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56184 Units: ug/l

Time: / Sample ID:			22:01 CCB12		23:03 CCB13		00:05 CCB14		01:04 CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	27	anr							
Antimony	6.0	2.2	anr							
Arsenic	3.0	1.3	anr							
Barium	200	1	anr							
Beryllium	1.0	.2	anr							
Bismuth	20	2.1								
Boron	100	1								
Cadmium	3.0	.2	anr							
Calcium	5000	7.7	anr							
Cerium	100									
Chromium	10	.5	anr							
Cobalt	50	.4	anr							
Copper	10	6.8	anr							
Iron	100	15	anr							
Lead	3.0	1.6	-1.50	<3.0	-2.00	<3.0	-2.10	<3.0	-2.10	<3.0
Lithium	50	3.7								
Magnesium	5000	54	anr							
Manganese	15	.1	anr							
Molybdenum	20	.5								
Nickel	10	.3	anr							
Phosphorus	50	1.8								
Potassium	10000	77	anr							
Selenium	10	2	anr							
Silicon	200	1.3								
Silver	10	.9	anr							
Sodium	10000	23	anr							
Strontium	10	.4								
Sulfur	50	4.1								
Thallium	10	1.6	anr							
Tin	10	.9								
Titanium	10	.9								
Tungsten	50	2								
Vanadium	50	.8	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56184 Units: ug/l

Time:			22:01		23:03		00:05		01:04	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.2	anr							
Zirconium	10	.5								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56184 Units: ug/l

Time:			02:07		03:07		03:53	
Sample ID:			CCB16		CCB17		CCB18	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	27	anr					
Antimony	6.0	2.2	anr					
Arsenic	3.0	1.3	anr					
Barium	200	1	anr					
Beryllium	1.0	.2	anr					
Bismuth	20	2.1						
Boron	100	1						
Cadmium	3.0	.2	anr					
Calcium	5000	7.7	anr					
Cerium	100							
Chromium	10	.5	anr					
Cobalt	50	.4	anr					
Copper	10	6.8	anr					
Iron	100	15	anr					
Lead	3.0	1.6	-2.60	<3.0	-1.90	<100	-1.80	<100
Lithium	50	3.7						
Magnesium	5000	54	anr					
Manganese	15	.1	anr					
Molybdenum	20	.5						
Nickel	10	.3	anr					
Phosphorus	50	1.8						
Potassium	10000	77	anr					
Selenium	10	2	anr					
Silicon	200	1.3						
Silver	10	.9	anr					
Sodium	10000	23	anr					
Strontium	10	.4						
Sulfur	50	4.1						
Thallium	10	1.6	anr					
Tin	10	.9						
Titanium	10	.9						
Tungsten	50	2						
Vanadium	50	.8	anr					

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56184 Units: ug/l

Time:			02:07		03:07		03:53	
Sample ID:			CCB16		CCB17		CCB18	
Metal	RL	IDL	raw	final	raw	final	raw	final
Zinc	20	.2	anr					
Zirconium	10	.5						

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA56184 Units: ug/l

Time:		10:37	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Bismuth			
Boron			
Cadmium	anr		
Calcium	anr		
Cerium			
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	2000	2040	102.0
Lithium			
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Phosphorus			
Potassium	anr		
Selenium	anr		
Silicon			
Silver	anr		
Sodium	anr		
Strontium			
Sulfur			
Thallium	anr		
Tin			
Titanium			
Tungsten			
Vanadium	anr		

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA56184 Units: ug/l

Time:		10:37	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Zinc	anr		
Zirconium			

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56184 Units: ug/l

Time:		10:20			12:12			13:13	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Cerium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2040	102.0	2000	2000	100.0	2000	1990	99.5
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56184 Units: ug/l

Time:		10:20			12:12			13:13	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	anr								
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56184 Units: ug/l

Time:		14:13			15:15			16:16	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Cerium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1980	99.0	2000	1970	98.5	2000	1970	98.5
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56184 Units: ug/l

Time:		14:13			15:15			16:16	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	anr								
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56184 Units: ug/l

Time:		17:19			18:20			19:09	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Cerium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1960	98.0	2000	1960	98.0	2000	1980	99.0
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56184 Units: ug/l

Time:		17:19			18:20			19:09	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	anr								
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56184 Units: ug/l

Time:		20:00			21:00			21:56	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Cerium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1970	98.5	2000	1950	97.5	2000	1970	98.5
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56184 Units: ug/l

Time:		20:00			21:00			21:56	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	anr								
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56184 Units: ug/l

Time:		22:58			00:00			00:59	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Cerium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1990	99.5	2000	1960	98.0	2000	1950	97.5
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56184 Units: ug/l

Time:		22:58			00:00			00:59	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	anr								
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56184 Units: ug/l

Time:		02:01			03:02			03:48	
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Cerium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1950	97.5	2000	1950	97.5	2000	1950	97.5
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56184 Units: ug/l

Time:		02:01			03:02			03:48	
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	anr								
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56184 Units: ug/l

Time:		11:14			11:20	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum						
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Bismuth						
Boron						
Cadmium	anr					
Calcium						
Cerium						
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron						
Lead	8000	8420	105.3			
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Phosphorus						
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Sodium						
Strontium						
Sulfur						
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium	anr					

HIGH STANDARD CHECK SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56184 Units: ug/l

Time:		11:14			11:20	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Zinc	anr					
Zirconium						

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56184 Units: ug/l

Time:				10:53		10:58	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Aluminum	200	500	100	anr			
Antimony	6.0	20	3.0	anr			
Arsenic	8.0	20	3.0	anr			
Barium	200		4.0	anr			
Beryllium	2.0		1.0	anr			
Bismuth	20						
Boron	100		10				
Cadmium	3.0		1.0	anr			
Calcium	5000	2000	1000	anr			
Cerium							
Chromium	10		2.0	anr			
Cobalt	50		3.0	anr			
Copper	10		2.0	anr			
Iron	100	500		anr			
Lead	3.0	20	2.5	3.20	106.7		
Lithium	50						
Magnesium	5000	2000	100	anr			
Manganese	15		3.0	anr			
Molybdenum	20						
Nickel	10		4.0	anr			
Phosphorus	50						
Potassium	5000		2000	anr			
Selenium	10	20	5.0	anr			
Silicon	200						
Silver	5.0		2.0	anr			
Sodium	5000		1000	anr			
Strontium	10						
Sulfur	50						
Thallium	10		2.0	anr			
Tin	10						
Titanium	10						
Tungsten	50						
Vanadium	50		2.0	anr			

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56184 Units: ug/l

Time:				10:53		10:58	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Zinc	20		10	anr			
Zirconium	10						

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56184 Units: ug/l

Time:			11:03		11:09	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	504000	100.8	502000	100.4
Antimony		1000	2.70		968	96.8
Arsenic		1000	-1.30		962	96.2
Barium		500	-1.90		506	101.2
Beryllium		500	-0.800		502	100.4
Bismuth		500	6.50		496	99.2
Boron		500	2.40		446	89.2
Cadmium		1000	0.800		1050	105.0
Calcium	400000	400000	388000	97.0	383000	95.8
Cerium			-19.1		-26.1	
Chromium		500	-2.80		479	95.8
Cobalt		500	-0.100		465	93.0
Copper		500	-2.00		532	106.4
Iron	200000	200000	192000	96.0	192000	96.0
Lead		1000	0.00		934	93.4
Lithium		500	-5.90		542	108.4
Magnesium	500000	500000	499000	99.8	495000	99.0
Manganese		500	-3.80		519	103.8
Molybdenum		500	1.50		467	93.4
Nickel		1000	0.300		937	93.7
Phosphorus		500	-3.20		463	92.6
Potassium			159		179	
Selenium		1000	0.00		958	95.8
Silicon		500	16.7		488	97.6
Silver		1000	-0.500		1090	109.0
Sodium			74.6		130	
Strontium		500	-1.20		523	104.6
Sulfur		500	-4.00		491	98.2
Thallium		1000	-1.80		957	95.7
Tin		500	4.20		473	94.6
Titanium		500	0.600		485	97.0
Tungsten		500	-1.50		479	95.8
Vanadium		500	-0.800		499	99.8

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD052924M1.ICP Date Analyzed: 05/29/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56184 Units: ug/l

Time:			11:03		11:09	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Zinc		1000	-5.50		939	93.9
Zirconium		500	-0.700		459	91.8

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46853 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date: 05/23/24

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.00020	.00004	.000095	0.000027	<0.00020

Associated samples MP46853: JD87833-1R, JD87833-9R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46853
Matrix Type: LEACHATE
Methods: SW846 7470A
Units: mg/l

Prep Date: 05/23/24

Metal	JD87671-8B Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0	0.0020	0.0020	100.0	75-125

Associated samples MP46853: JD87833-1R, JD87833-9R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46853 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date: 05/23/24

Metal	JD87671-8B Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.0	0.0019	0.0020	95.0	5.1	20

Associated samples MP46853: JD87833-1R, JD87833-9R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46853
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 05/23/24 05/23/24

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0018	0.0020	90.0	80-120	0.0019	0.0020	95.0	80-120

Associated samples MP46853: JD87833-1R, JD87833-9R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46890
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/24/24

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	27	46		
Antimony	100	2.2	4.7		
Arsenic	100	1.3	2.8		
Barium	200	1	13		
Beryllium	2.0	.2	.5		
Bismuth	20	2.1	4		
Boron	100	1	63		
Cadmium	4.0	.2	1		
Calcium	5000	7.7	99		
Chromium	10	.5	2		
Cobalt	50	.4	2.6		
Copper	10	6.8	5.9		
Iron	100	15	32		
Lead	100	1.6	1.8	-2.6	<100
Lithium	50	3.7	7.3		
Magnesium	5000	54	140		
Manganese	15	.1	1.4		
Molybdenum	20	.5	3.6		
Nickel	10	.3	1.7		
Phosphorus	50	1.8	18		
Potassium	10000	77	200		
Selenium	100	2	4.9		
Silicon	200	1.3	100		
Silver	10	.9	1.9		
Sodium	10000	23	570		
Strontium	10	.4	1		
Sulfur	50	4.1	45		
Thallium	100	1.6	1.8		
Tin	10	.9	3.7		
Titanium	10	.9	2.5		
Tungsten	50	2	40		
Vanadium	50	.8	1.8		
Zinc	20	.2	6.9		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46890
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/24/24

Metal	RL	IDL	MDL	MB raw	final
Zirconium	10	.5	4.1		

Associated samples MP46890: JD87833-1R, JD87833-9R, JD87833-11R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46890
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/24/24

Metal	JD87833-1R Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	anr				
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Bismuth					
Boron					
Cadmium	anr				
Calcium	anr				
Chromium	anr				
Cobalt	anr				
Copper	anr				
Iron	anr				
Lead	6.5	1510	2000	75.2	75-125
Lithium					
Magnesium	anr				
Manganese	anr				
Molybdenum					
Nickel	anr				
Phosphorus					
Potassium	anr				
Selenium	anr				
Silicon					
Silver	anr				
Sodium	anr				
Strontium					
Sulfur					
Thallium	anr				
Tin					
Titanium					
Tungsten					
Vanadium	anr				
Zinc	anr				

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46890 Methods: SW846 6010D
Matrix Type: LEACHATE Units: ug/l

Prep Date: 05/24/24

Metal	JD87833-1R Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP46890: JD87833-1R, JD87833-9R, JD87833-11R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46890
Matrix Type: LEACHATE
Methods: SW846 6010D
Units: ug/l

Prep Date: 05/24/24

Metal	JD87833-1R Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Bismuth						
Boron						
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	6.5	1540	2000	76.7	2.0	20
Lithium						
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Phosphorus						
Potassium	anr					
Selenium	anr					
Silicon						
Silver	anr					
Sodium	anr					
Strontium						
Sulfur						
Thallium	anr					
Tin						
Titanium						
Tungsten						
Vanadium	anr					
Zinc	anr					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46890 Methods: SW846 6010D
Matrix Type: LEACHATE Units: ug/l

Prep Date: 05/24/24

Metal	JD87833-1R Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP46890: JD87833-1R, JD87833-9R, JD87833-11R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46890
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date:		05/24/24				05/24/24		
Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	anr							
Antimony	anr							
Arsenic	anr							
Barium	anr							
Beryllium	anr							
Bismuth								
Boron								
Cadmium	anr							
Calcium	anr							
Chromium	anr							
Cobalt	anr							
Copper	anr							
Iron	anr							
Lead	1760	2000	88.0	80-120	1750	2000	87.5	80-120
Lithium								
Magnesium	anr							
Manganese	anr							
Molybdenum								
Nickel	anr							
Phosphorus								
Potassium	anr							
Selenium	anr							
Silicon								
Silver	anr							
Sodium	anr							
Strontium								
Sulfur								
Thallium	anr							
Tin								
Titanium								
Tungsten								
Vanadium	anr							
Zinc	anr							

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46890
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/24/24 05/24/24

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium								

Associated samples MP46890: JD87833-1R, JD87833-9R, JD87833-11R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46890
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/24/24

Metal	JD87833-1R Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	6.50	0.00	100.0(a)	0-10
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	anr			

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46890
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/24/24

Metal	JD87833-1R Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP46890: JD87833-1R, JD87833-9R, JD87833-11R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46890
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/24/24

Metal	Sample ml	Final ml	JD87833-1R Raw	JD87833-1R Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Bismuth										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Lithium										
Magnesium										
Manganese										
Molybdenum										
Nickel										
Phosphorus										
Potassium										
Selenium										
Silicon										
Silver										
Sodium										
Strontium										
Sulfur										
Thallium										
Tin										
Titanium										
Tungsten										
Vanadium										
Zinc										

POST DIGESTATE SPIKE SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46890
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 05/24/24

Metal	Sample ml	Final ml	JD87833-1R Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Zirconium										

Associated samples MP46890: JD87833-1R, JD87833-9R, JD87833-11R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46896
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/28/24

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.04	.095	0.015	<0.20

Associated samples MP46896: JD87833-14R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46896
Matrix Type: LEACHATE
Methods: SW846 7470A
Units: ug/l

Prep Date: 05/28/24

Metal	JD87833-14R Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0	2.3	2	115.0	75-125

Associated samples MP46896: JD87833-14R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46896 Methods: SW846 7470A
Matrix Type: LEACHATE Units: ug/l

Prep Date: 05/28/24

Metal	JD87833-14R Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.0	2.2	2	110.0	4.4	20

Associated samples MP46896: JD87833-14R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD87833R
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP46896
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: ug/l

Prep Date: 05/28/24 05/28/24

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	2.1	2	105.0	80-120	2.1	2	105.0	80-120

Associated samples MP46896: JD87833-14R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: JD87833-1 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-1

Wet Weight (Total)	37.19	g
Tare Weight	30.83	g
Dry Weight (Total)	35.37	g
Solids, Percent	71.4	%

Sample: JD87833-4 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-4

Wet Weight (Total)	40.7	g
Tare Weight	31.64	g
Dry Weight (Total)	39.58	g
Solids, Percent	87.6	%

Sample: JD87833-5 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED M
ClientID: SB-5

Wet Weight (Total)	31.41	g
Tare Weight	23.14	g
Dry Weight (Total)	30.56	g
Solids, Percent	89.7	%

Sample: JD87833-6 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-6

Wet Weight (Total)	35.93	g
Tare Weight	26.81	g
Dry Weight (Total)	34.91	g
Solids, Percent	88.8	%

Sample: JD87833-7 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-7

Wet Weight (Total)	32.57	g
Tare Weight	25.27	g
Dry Weight (Total)	31.93	g
Solids, Percent	91.2	%

Sample: JD87833-9 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-9

Wet Weight (Total)	29.15	g
Tare Weight	21.16	g
Dry Weight (Total)	27.67	g
Solids, Percent	81.5	%

Percent Solids Raw Data Summary

Job Number: JD87833R
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: JD87833-11 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-11

Wet Weight (Total)	37.64	g
Tare Weight	28.26	g
Dry Weight (Total)	36.49	g
Solids, Percent	87.7	%

Sample: JD87833-14 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: SB-14

Wet Weight (Total)	36	g
Tare Weight	29.22	g
Dry Weight (Total)	35.37	g
Solids, Percent	90.7	%

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix New World Engineering, Inc.

Ridgewood Berm Sampling, Ridgewood, NJ

23-1429

SGS Job Number: JD87833T

Sampling Date: 05/03/24

Report to:

Matrix New World Engineering, Inc.
26 Columbia Turnpike
Florham Park, NJ 07932
mclelland@mnwe.com

ATTN: Melissa Clelland

Total number of pages in report: 52

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200
Certifications: NJ(12129), NY(10983), CA, CO, CT, FL, HI, IL, IN, KY, LA (120428), MA, MD, ME, MN, NC, NH, NV, AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX (T104704234), UT, VA, WA, WV

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Sample Summary

Matrix New World Engineering, Inc.

Job No: JD87833T

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD87833-15T	05/03/24	00:00	KM	05/03/24	SO	Soil	DUPE 1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Matrix New World Engineering, Inc.	**Job No:**	JD87833T
Site:	Ridgewood Berm Sampling, Ridgewood, NJ	**Report Date**	6/4/2024 4:18:02 AM

On 05/03/2024, 1 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 2.6 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JD87833T was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: LEACHATE **Batch ID:** OP55107A

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- The blank spike (BS) recovery(s) of Benzo(a)anthracene are outside control limits.
- OP55107A-BSD12: Blank spike outside control limits due to analytical error.Since Blank spike duplicate recovery within control limits,data are qualified and reported.
- OP55107A-BSD12 for Benzo(a)anthracene: Analytical precision exceeds in-house control limits.
- OP55107A-BS12 for Terphenyl-d14: Outside of in house control limits.
- OP55107A-BS12 for Benzo(a)anthracene: Outside of in house control limits.

General Chemistry By Method SW846 1312

Matrix: ALL **Batch ID:** GN55465

- The data for SW846 1312 meets quality control requirements.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JD87833T
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 05/03/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD87833-15T	**DUPE 1**					
pH, SPLP Leachate		8.15			su	SW846 1312
Volume, SPLP Leachate		2.002			l	SW846 1312
Weight, SPLP Leachate		0.1001			kg	SW846 1312
Dry Weight, SPLP Leachate		0.09099			kg	SW846 1312
Benzo(a)anthracene		0.153	0.10	0.046	ug/l	SW846 8270E BY SIM

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUPE 1		
Lab Sample ID:	JD87833-15T	**Date Sampled:**	05/03/24
Matrix:	SO - Soil	**Date Received:**	05/03/24
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	90.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3H1186.D	1	06/01/24 09:01	RS	05/31/24 10:30	OP55107A	E3H82
Run #2							

	Initial Volume	Final Volume
Run #1	500 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	0.153		0.10	0.046	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	95%		18-119%
321-60-8	2-Fluorobiphenyl	73%		18-104%
1718-51-0	Terphenyl-d14	75%		13-109%

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUPE 1
Lab Sample ID: JD87833-15T
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 05/03/24
Date Received: 05/03/24
Percent Solids: 90.9

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	8.15		su	1	05/30/24 13:42	IA	SW846 1312
Volume, SPLP Leachate	2.002		l	1	05/30/24 13:42	IA	SW846 1312
Weight, SPLP Leachate	0.1001		kg	1	05/30/24 13:42	IA	SW846 1312
Dry Weight, SPLP Leachate	0.09099		kg	1	05/30/24 13:42	IA	SW846 1312

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

Page 1 of 2

S, AQ FB

FED-EX Tracking #
Bottle Order Control # DREM-TM-05124-184
SGS Quote #
SGS Job # JD87833

Client / Reporting Information

Company Name: Matrix New World
Street Address: 26 Columbia Tpke
City: Florham Park State: NJ Zip:
Project Contact: mfeury@mnwc.com E-mail:
Phone #: 201-657-2638
Sampler(s) Name(s): Kerry Murphy Phone #: 973-818-1586

Project Information

Project Name: Ridgewood Berm Sampling
Street:
City: Ridgewood State: NJ
Project #: 23-1429
Client Purchase Order #:
Project Manager: Melissa Feury

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	TCL SVOC's	TAL Metals	TCL Pesticides	PCB's	LAB USE ONLY
1	SB-1		5/3/24	0830	KM	G	N	S	1					1				X	X	X	X	D51
2	SB-2			0835	KM	G	N	S	1					1				X	X			E91
3	SB-3			0840	KM	G	N	S	1					1				X	X	X	X	A12
4	SB-4			0900	KM	G	N	S	1					1				X	X	X	X	
5	SB-5			0905	KM	G	N	S	1					1				X	X	X	X	
6	SB-6			0910	KM	G	N	S	1					1				X	X			
7	SB-7			0920	KM	G	N	S	1					1				X	X	X	X	
8	SB-8			0930	KM	G	N	S	1					1				X	X	X	X	
9	SB-9			0935	KM	G	N	S	1					1				X	X			
10	SB-10			0950	KM	G	N	S	1					1				X	X	X	X	
11	SB-11			1000	KM	G	N	S	1					1				X	X	X	X	
12	SB-12			1015	KM	C	N	S	1					1				X	X	X	X	

Number of Bottles / pH Check (Lab Use Only)

Turn Around Time (Business Days)

Approved By (SGS PM) / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via SGS Engage

* Approval needed for 1-3 BD TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [X] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Initial Assessment 3BHR
•2x300ml
http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:
1		5/3/24 1530	1
2		5/3/24 830	2
3		Date / Time:	3
4		5/3/24 17:08	4
5		Date / Time:	5

Custody Seal # ☐ Intact ☐ Not intact ☐ Absent
Therm ID: On Ice Cooler Temp. °C
See Sample Receipt Summary ☐

~~FB-SO-2163~~ 2.1°C 2.2°C IR50

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

FED-EX Tracking # | Bottle Order Control #
SGS Quote # | SGS Job #

Client / Reporting Information

Company Name: Matrix New World
Street Address: 26 Columbia Tpke.
City: Florham Park State: NJ Zip:
Project Contact: mfeury Email: @mnwi.com
Phone #: 201-057-2638
Sampler(s) Name(s): E. Murphy Phone #: 973-219-3401
Project Manager: Melissa Feury

Project Information

Project Name: Ridgewood Berm Sampling
Street:
City: Ridgewood State: NJ
Project #: 23-1429
Client Purchase Order #:

Billing Information (if different from Report to)
Company Name:
Street Address:
City State Zip:
Attention:

TCL SVOCs | TAL Metals | TCL Pesticides | PCBs

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	Number of Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	EnCore	pH Check (Lab Use Only)	LAB USE ONLY
13	SB-13		5/3/24	1030	KM	G	N	S	1					1				X X	
14	SB-14			1035	KM	G	N	S	1					1				X X X X	
15	Dupe 1				KM	G	N	S	1					1				X X X X	
16	Dupe 2				KM	G	N	S	1					1				X X X X	
17	• Field Blank	ø		1100	KM		N	W	5			1		4				X X X X	

Turn Around Time (Business Days)

Approved By (SGS PM) / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via SGS Engage
* Approval needed for 1-3 BD TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [X] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results only, Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

• 2x300mL AMBER

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:
1	[signature] MF	5/3/24 1539	[signature] 5/3/24 1539
2	[signature]	5/3/24 17:58	
3			
4			
5			

Custody Seal # | Intact | Not Intact | Absent
Therm ID: | On Ice | Cooler Temp. °C | See Sample Receipt Summary

EHSA-QAC-0023-05 Rev.Date:8/5/22

3 Coolers / TR 50 21 x2 / SGS Courier

SGS Sample Receipt Summary

Job Number: JD87833 **Client:** MATRIX NEW WORLD ENGINEERING, IN **Project:** RIDGEWOOD BERM SAMPLING, RIDGE

Date / Time Received: 5/3/2024 5:08:00 PM **Delivery Method:** SGS COURIER **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.1); Cooler 2: (2.2);

Cooler Temps (Corrected) °C: Cooler 1: (2.5); Cooler 2: (2.6);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Job Change Order: JD87833

Requested Date: 5/17/2024 **Received Date:** 5/3/2024

Account Name: Matrix New World Engineering, In **Due Date:** 5/17/2024

Project Description: Ridgewood Berm Sampling, Ridgewood, NJ **Deliverable:** REDT2

C/O Initiated By: KELLY_RAM **PM:** TM **TAT (Days):** 7

Sample #: JD87833-1, -9 **Dept:**

Client ID: **TAT:** 7

Change: Please relog for EHG, SPLPE, SPLPRATIO, EPB

Sample #: JD87833-4 **Dept:**

Client ID: SB-4 **TAT:**

Change: Please relog for B8270SPLPSIMBANTH, SPLPE, SPLPRATIO,

---

Sample #: JD87833-5, -6 **Dept:**

Client ID: **TAT:**

Change: Please relog for B8270SPLPSIMBANTH, BSIM+BAPYRN, SPLPE, SPLPRATIO,

---

Sample #: JD87833-7 **Dept:**

Client ID: SB-7 **TAT:**

Change: Please relog for B8270SPLPSIMBAPYRN, SPLPE, SPLPRATIO,

---

Above Changes Per: Melissa Feury **Date/Time:** 5/20/2024

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JD87833

Requested Date: 5/17/2024 **Received Date:** 5/3/2024

Account Name: Matrix New World Engineering, In **Due Date:** 5/17/2024

Project Description: Ridgewood Berm Sampling, Ridgewood, NJ **Deliverable:** REDT2

C/O Initiated By: KELLY_RAM **PM:** TM **TAT (Days):** 7

==========

Sample #: JD87833-11 **Dept:**

Client ID: SB-11 **TAT:**

Change: Please relog for SPLPE, SPLPRATIO, EPB

==========

Sample #: JD87833-14 **Dept:**

Client ID: SB-14 **TAT:**

Change: Please relog for EHG, SPLPE, SPLPRATIO,

Above Changes Per: Melissa Feury **Date/Time:** 5/20/2024

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JD87833

Requested Date:	5/28/2024	**Received Date:**	5/3/2024
Account Name:	Matrix New World Engineering, In	**Due Date:**	5/28/2024
Project Description:	Ridgewood Berm Sampling, Ridgewood, NJ	**Deliverable:**	REDT2
C/O Initiated By:	SARAH_YE **PM:** TM	**TAT (Days):**	6

==========

Sample #: JD87833-15 **Dept:**

Client ID: DUPE 1 **TAT:** 6

Change: Relog for B8270SPLPSIMBANTH, SPLPE, SPLPRATIO

==========

Sample #: JD87833--5R,-6R **Dept:**

Client ID: **TAT:** 6

Change: NO OUT data for BSIM+BAPYRN

==========

Sample #: JD87833--7R **Dept:**

Client ID: **TAT:** 6

Change: NO OUT data for B8270SPLPSIMBAPYRN, SPLPE, SPLPRATIO

Above Changes Per: Melissa Feury **Date/Time:** 5/28/2024

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD87833T: Chain of Custody

Page 6 of 6

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD87833T

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD87833-15T	Collected: 03-MAY-24 00:00 By: KM		Received: 03-MAY-24 By: AR			
DUPE 1						
JD87833-15T	SW846 1312	30-MAY-24 13:42	IA			SPLPRATIO
JD87833-15T	SW846 8270E BY SIM	01-JUN-24 09:01	RS	31-MAY-24	DS	B8270SPLPSIMBANTH

SGS Internal Chain of Custody

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-15.1	Haleigh Rosado	Secured Storage	05/04/24 17:02	Return to Storage
JD87833-15.1	Secured Storage	Todd Shoemaker	05/06/24 14:42	Retrieve from Storage
JD87833-15.1	Todd Shoemaker	Secured Staging Area	05/06/24 14:43	Return to Storage
JD87833-15.1	Secured Staging Area	Saloni Chauhan	05/06/24 15:32	Retrieve from Storage
JD87833-15.1	Saloni Chauhan	Secured Storage	05/06/24 22:47	Return to Storage
JD87833-15.1	Secured Storage	Aleandi Rodriguez	05/07/24 22:26	Retrieve from Storage
JD87833-15.1	Aleandi Rodriguez	Secured Staging Area	05/07/24 22:26	Return to Storage
JD87833-15.1	Secured Staging Area	Lauren Halloran	05/08/24 07:57	Retrieve from Storage
JD87833-15.1	Secured Storage	Brianna Perez	05/08/24 12:30	Retrieve from Storage
Analyst chain of custody update error.				
JD87833-15.1	Brianna Perez	Secured Storage	05/08/24 15:25	Return to Storage
JD87833-15.1	Secured Storage	Ellen Dondeo	05/08/24 16:10	Retrieve from Storage
JD87833-15.1	Ellen Dondeo	Secured Storage	05/08/24 19:05	Return to Storage
JD87833-15.1	Secured Storage	Joshua Reitan	05/08/24 23:47	Retrieve from Storage
JD87833-15.1	Joshua Reitan	Secured Staging Area	05/08/24 23:47	Return to Storage
JD87833-15.1	Secured Staging Area	Lauren Halloran	05/09/24 07:48	Retrieve from Storage
JD87833-15.1	Lauren Halloran	Secured Storage	05/09/24 16:50	Return to Storage
JD87833-15.1	Secured Storage	Dave Hunkele	05/29/24 09:36	Retrieve from Storage
JD87833-15.1	Dave Hunkele	Secured Staging Area	05/29/24 09:36	Return to Storage
JD87833-15.1	Secured Staging Area	Joseph Dye	05/29/24 13:12	Retrieve from Storage
JD87833-15.1	Joseph Dye	Secured Storage	05/29/24 22:00	Return to Storage
JD87833-15.1.1	Brianna Perez	Metals Digestion	05/08/24 12:31	Digestate from JD87833-15.1
JD87833-15.1.1	Metals Digestion	Brianna Perez	05/08/24 12:32	Digestate from JD87833-15.1
JD87833-15.1.1	Brianna Perez	Metals Digestate Storage	05/08/24 12:32	Return to Storage
JD87833-15.1.2	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-15.1
JD87833-15.1.2	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-15.1
JD87833-15.1.2	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-15.1.2	Extract Storage	Christine Phillips	05/09/24 01:52	Retrieve from Storage
JD87833-15.1.2	Christine Phillips	GC8G	05/09/24 01:52	Load on Instrument
JD87833-15.1.3	Ellen Dondeo	Organics Prep	05/08/24 16:12	Extract from JD87833-15.1
JD87833-15.1.3	Organics Prep	Ellen Dondeo	05/08/24 20:48	Extract from JD87833-15.1
JD87833-15.1.3	Ellen Dondeo	Extract Storage	05/08/24 20:48	Return to Storage
JD87833-15.1.3	Extract Storage	Christine Phillips	05/09/24 04:52	Retrieve from Storage
JD87833-15.1.3	Christine Phillips	GC2G	05/09/24 04:52	Load on Instrument
JD87833-15.1.4	Lauren Halloran	Organics Prep	05/09/24 08:10	Extract from JD87833-15.1
JD87833-15.1.4	Organics Prep	Erin Burke	05/09/24 15:00	Extract from JD87833-15.1
JD87833-15.1.4	Erin Burke	Extract Storage	05/09/24 15:00	Return to Storage
JD87833-15.1.5	Joseph Dye	TCLP	05/29/24 13:12	Leachate from JD87833-15.1
JD87833-15.1.5	TCLP	Joseph Dye	05/29/24 20:09	Leachate from JD87833-15.1

SGS Internal Chain of Custody

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 05/03/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD87833-15.1.5	Joseph Dye	Secured Storage	05/29/24 20:10	Return to Storage
JD87833-15.1.5	Secured Storage	Doaa Salem	05/31/24 10:15	Retrieve from Storage
JD87833-15.1.6	Doaa Salem	Organics Prep	05/31/24 10:15	Extract from JD87833-15.1.5
JD87833-15.1.6	Organics Prep	Doaa Salem	05/31/24 18:38	Extract from JD87833-15.1.5
JD87833-15.1.6	Doaa Salem	Extract Storage	05/31/24 18:38	Return to Storage

MS Semi-volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55107A-MB1	3H1177.D	1	06/01/24	RS	05/31/24	OP55107A	E3H82

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD87833-15T

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.10	0.046	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	68%	12-75%
4165-62-2	Phenol-d5	55%	14-59%
118-79-6	2,4,6-Tribromophenol	157%	19-157%
4165-60-0	Nitrobenzene-d5	109%	18-119%
321-60-8	2-Fluorobiphenyl	73%	18-104%
1718-51-0	Terphenyl-d14	103%	13-109%

Leachate Blank Summary

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55107A-LB51	3H1180.D	1	06/01/24	RS	05/31/24	OP55107A	E3H82

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD87833-15T

CAS No.	Compound	Result	RL	MDL	Units	Q
56-55-3	Benzo(a)anthracene	ND	0.10	0.046	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	65%	12-75%
4165-62-2	Phenol-d5	54%	14-59%
118-79-6	2,4,6-Tribromophenol	152%	19-157%
4165-60-0	Nitrobenzene-d5	99%	18-119%
321-60-8	2-Fluorobiphenyl	69%	18-104%
1718-51-0	Terphenyl-d14	99%	13-109%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55107A-BS12	3H1178.D	1	06/01/24	RS	05/31/24	OP55107A	E3H82
OP55107A-BSD12	3H1179.D	1	06/01/24	RS	05/31/24	OP55107A	E3H82

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD87833-15T

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
56-55-3	Benzo(a)anthracene	2	0.454	23* [b]	1.69	85	115* [c]	33-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	53%	55%	12-75%
4165-62-2	Phenol-d5	37%	46%	14-59%
118-79-6	2,4,6-Tribromophenol	151%	151%	19-157%
4165-60-0	Nitrobenzene-d5	86%	85%	18-119%
321-60-8	2-Fluorobiphenyl	62%	58%	18-104%
1718-51-0	Terphenyl-d14	156%* [b]	92%	13-109%

(a) Blank spike outside control limits due to analytical error. Since Blank spike duplicate recovery within control limits, data are qualified and reported.
(b) Outside of in house control limits.
(c) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H73-DFTPP
Lab File ID: 3H1013A.D
Instrument ID: GCMS3H
Injection Date: 05/18/24
Injection Time: 01:16

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	17023	43.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	17054	43.8		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	20696	53.2		Pass
197	Less than 1.0% of mass 198	50	0.13		Pass
198	Base peak, 100% relative abundance	38911	100.0		Pass
199	5.0 - 9.0% of mass 198	2601	6.68		Pass
275	10.0 - 31.0% of mass 198	9310	23.9		Pass
365	1.0 - 100.0% of mass 198	1205	3.10		Pass
441	Present, but less than mass 443	5588	14.4	(92.3) [b]	Pass
442	40.0 - 100.0% of mass 198	31533	81.0		Pass
443	17.0 - 23.0% of mass 442	6057	15.6	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3H73-ICC73	3H1014.D	05/18/24	01:40	00:24	Initial cal 1
E3H73-IC73	3H1015.D	05/18/24	02:04	00:48	Initial cal 0.01
E3H73-IC73	3H1016.D	05/18/24	02:29	01:13	Initial cal 0.02
E3H73-IC73	3H1017.D	05/18/24	02:54	01:38	Initial cal 0.05
E3H73-IC73	3H1018.D	05/18/24	03:19	02:03	Initial cal 0.1
E3H73-IC73	3H1019.D	05/18/24	03:43	02:27	Initial cal 0.2
E3H73-IC73	3H1020.D	05/18/24	04:08	02:52	Initial cal 0.5
E3H73-IC73	3H1021.D	05/18/24	04:32	03:16	Initial cal 2.5
E3H73-IC73	3H1022.D	05/18/24	04:57	03:41	Initial cal 5
E3H73-ICV73	3H1023.D	05/18/24	05:22	04:06	Initial cal verification 1
E3H73-ICV73	3H1024.D	05/18/24	05:46	04:30	Initial cal verification 1
E3H73-ICV73	3H1025.D	05/18/24	06:11	04:55	Initial cal verification 5

Instrument Performance Check (DFTPP)

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H82-DFTPP
Lab File ID: 3H1170.D
Instrument ID: GCMS3H
Injection Date: 06/01/24
Injection Time: 01:52

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	15916	40.0		Pass
68	Less than 2.0% of mass 69	158	0.40	(0.96) [a]	Pass
69	Mass 69 relative abundance	16396	41.2		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	20197	50.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	39801	100.0		Pass
199	5.0 - 9.0% of mass 198	2647	6.65		Pass
275	10.0 - 30.0% of mass 198	9841	24.7		Pass
365	1.0 - 100.0% of mass 198	1327	3.33		Pass
441	Present, but less than mass 443	6100	15.3	(87.3) [b]	Pass
442	40.0 - 100.0% of mass 198	36048	90.6		Pass
443	17.0 - 23.0% of mass 442	6986	17.6	(19.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3H82-CC73	3H1171.D	06/01/24	02:04	00:12	Continuing cal 1
OP54985A-MB2	3H1173.D	06/01/24	03:43	01:51	Method Blank
ZZZZZZ	3H1174.D	06/01/24	04:08	02:16	(unrelated sample)
OP55022A-MB2	3H1175.D	06/01/24	04:32	02:40	Method Blank
OP55022A-BS122	3H1176.D	06/01/24	04:56	03:04	Blank Spike
OP55107A-MB1	3H1177.D	06/01/24	05:21	03:29	Method Blank
OP55107A-BS12	3H1178.D	06/01/24	05:45	03:53	Blank Spike
OP55107A-BSD12	3H1179.D	06/01/24	06:10	04:18	Blank Spike Duplicate
OP55107A-LB51	3H1180.D	06/01/24	06:34	04:42	Leachate Blank
OP55022A-MSA	3H1181.D	06/01/24	06:58	05:06	Matrix Spike
OP55022A-MSDA	3H1182.D	06/01/24	07:23	05:31	Matrix Spike Duplicate
ZZZZZZ	3H1183.D	06/01/24	07:47	05:55	(unrelated sample)
ZZZZZZ	3H1184.D	06/01/24	08:12	06:20	(unrelated sample)
ZZZZZZ	3H1185.D	06/01/24	08:36	06:44	(unrelated sample)
JD87833-15T	3H1186.D	06/01/24	09:01	07:09	DUPE 1
ZZZZZZ	3H1187.D	06/01/24	09:25	07:33	(unrelated sample)
ZZZZZZ	3H1188.D	06/01/24	09:49	07:57	(unrelated sample)
ZZZZZZ	3H1189.D	06/01/24	10:14	08:22	(unrelated sample)

Internal Standard Area Summary

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	E3H82-CC73	**Injection Date:**	06/01/24
Lab File ID:	3H1171.D	**Injection Time:**	02:04
Instrument ID:	GCMS3H	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	11055	6.17	12645	7.50	23380	10.20	20665	14.35
Upper Limit [a]	22110	6.67	25290	8.00	46760	10.70	41330	14.85
Lower Limit [b]	5528	5.67	6323	7.00	11690	9.70	10333	13.85

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP54985A-MB2	10003	6.16	11587	7.49	22044	10.19	19132	14.33
ZZZZZZ	9592	6.16	11220	7.49	21329	10.19	18470	14.33
OP55022A-MB2	9790	6.16	11414	7.49	21686	10.19	18974	14.33
OP55022A-BS122	8172	6.16	9457	7.49	17722	10.19	15468	14.33
OP55107A-MB1	9159	6.16	10718	7.49	20097	10.19	17528	14.33
OP55107A-BS12	9269	6.16	9529	7.48	7186*	10.18	13*	14.33
OP55107A-BSD129	9457	6.16	10941	7.48	20599	10.18	17708	14.33
OP55107A-LB51	8365	6.16	9738	7.49	18348	10.19	15583	14.33
OP55022A-MSA	9419	6.16	10814	7.49	20275	10.19	17211	14.33
OP55022A-MSDA	9577	6.16	11022	7.49	20562	10.19	17323	14.33
ZZZZZZ	8173	6.16	9493	7.49	17709	10.19	15327	14.33
ZZZZZZ	9346	6.16	10857	7.49	20111	10.19	17172	14.33
ZZZZZZ	8809	6.16	10198	7.49	19089	10.19	16280	14.33
JD87833-15T	8256	6.16	9524	7.49	17816	10.19	15318	14.33
ZZZZZZ	8736	6.16	10302	7.48	19339	10.18	16283	14.33
ZZZZZZ	8456	6.16	10071	7.48	19149	10.18	16028	14.33
ZZZZZZ	9235	6.16	10801	7.49	20067	10.19	17087	14.33

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Blank spike outside control limits due to analytical error. Since Blank spike duplicate recovery within control limits, data are qualified and reported.

Surrogate Recovery Summary

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8270E BY SIM **Matrix:** LEACHATE

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JD87833-15T	3H1186.D	95	73	75
OP55107A-BS12	3H1178.D	86	62	156* [a]
OP55107A-BSD12	3H1179.D	85	58	92
OP55107A-LB51	3H1180.D	99	69	99
OP55107A-MB1	3H1177.D	109	73	103

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	18-119%
S2 = 2-Fluorobiphenyl	18-104%
S3 = Terphenyl-d14	13-109%

(a) Outside of in house control limits.

Initial Calibration Summary

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H73-ICC73
Lab FileID: 3H1014.D

Response Factor Report GCMS3H

Method : C:\msdchem\1\METHODS\M3H73SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Wed May 29 16:40:24 2024
Response via : Initial Calibration

Calibration Files
0.05=3H1017.D .2 =3H1019.D 2.5 =3H1021.D .02 =3H1016.D
.1 =3H1018.D 1 =3H1014.D .01 =3H1015.D .5 =3H1020.D
5 =3H1022.D = = =

Compound	0.05	.2	2.5	.02	.1	1	.01	.5	5	Avg	%RSD
1) I 1-Methylnaphthalene-d ----------ISTD----------											
2) 2-Fluorophenol	0.407	0.406	0.426	0.409	0.408	0.417	0.460	0.407	0.468	0.423	5.67
3) Phenol-d5	0.432	0.444	0.498	0.432	0.441	0.470	0.485	0.466	0.572	0.471	9.42
4) Phenol	0.493	0.511	0.528	0.488	0.498	0.533	0.558	0.541	0.593	0.527	6.50
5) bis(2-Chloroethyl)ether										0.000#	-1.00
6) Nitrobenzene-d5	0.327	0.331	0.410	0.333	0.329	0.389	0.378	0.356	0.477	0.370	13.57
7) Naphthalene	1.424	1.435	1.393	1.429	1.488	1.399	1.610	1.465	1.498	1.460	4.58
8) Hexachlorobutadiene	0.272	0.277	0.269	0.305	0.278	0.282	0.296	0.282	0.284	0.283	4.00
9) 2-Methylnaphthalene	1.029	1.025	1.007	1.060	1.033	1.023	1.150	1.043	1.065	1.048	4.02
11) 2-Fluorobiphenyl	1.205	1.186	1.283	1.209	1.190	1.245	1.352	1.246	1.419	1.259	6.32
12) I Fluorene-d10 ----------ISTD----------											
13) Acenaphthylene	1.420	1.381	1.405	1.444	1.394	1.401	1.565	1.422	1.468	1.433	3.91
14) Acenaphthene	0.991	0.986	0.990	1.014	0.977	0.984	1.114	1.000	1.029	1.010	4.18
15) Dibenzofuran										0.000#	-1.00
16) Fluorene	1.095	1.112	1.083	1.168	1.060	1.092	1.264	1.099	1.119	1.121	5.45
17) 2,4,6-Tribromophenol	0.083	0.084	0.124	0.087	0.081	0.115	0.090	0.095		0.095	16.83
18) Hexachlorobenzene	0.343	0.334	0.329	0.353	0.343	0.346	0.391	0.342	0.340	0.347	5.20
19) Pentachlorophenol	0.077	0.085	0.128		0.078	0.125		0.097	0.154	0.106	27.83
---- Quadratic regression ---- Coefficient = 0.9987											
Response Ratio = -0.00306 + 0.10725 *A + 0.00746 *A^2											
20) Phenanthrene	1.548	1.474	1.462	1.537	1.418	1.498	1.836	1.488	1.513	1.530	7.91
21) Anthracene	1.346	1.370	1.443	1.383	1.335	1.446	1.505	1.411	1.521	1.418	4.67

Initial Calibration Summary

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H73-ICC73
Lab FileID: 3H1014.D

```
22) I   Fluoranthene-d10      ----------------ISTD---------------------
23)  Fluoranthene
          0.904 0.861 0.905 0.907 0.878 0.909 1.031 0.899 0.952        0.916    5.43
24)  Pyrene
          0.918 0.875 0.910 0.898 0.894 0.917 0.998 0.908 0.958        0.920    4.02
25)  Terphenyl-d14
          0.655 0.673 0.804 0.651 0.656 0.755 0.687 0.731 0.901        0.724   11.70
26)  Benzo[a]anthracene
          0.691 0.682 0.763 0.691 0.672 0.845 0.812 0.706 0.819        0.742    9.16
27)  Chrysene
          0.719 0.735 0.832 0.725 0.712 0.853 0.778 0.772 0.875        0.778    7.92

28) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
29)  Benzo[b]fluoranthene
          0.904 0.854 0.987 0.895 0.876 0.981 0.974 0.885 1.009        0.930    6.20
30)  Benzo[k]fluoranthene
          0.847 0.867 0.970 0.823 0.823 0.964 0.974 0.915 1.085        0.919    9.55
31)  Benzo[a]pyrene
          0.967 0.971 1.010 0.990 0.969 0.985 1.136 0.985 1.063        1.008    5.58
32)  Indeno[1,2,3-cd]pyrene
          0.928 0.894 1.055 1.002 0.908 1.025 1.205 0.937 1.155        1.012   10.90
33)  Dibenz[a,h]anthracene
          0.550 0.601 0.740 0.609 0.577 0.722 0.765 0.646 0.823        0.670   14.18
34)  Benzo[g,h,i]perylene
          0.775 0.797 0.908 0.776 0.786 0.880 0.858 0.837 0.986        0.845    8.45

35) I   1-Methylnaphthalene-d ----------------ISTD---------------------
36)  1,4-Dioxane
          0.162 0.171 0.167 0.161 0.171 0.169       0.178 0.173        0.169    3.35
37)  1-Methylnaphthalene
          0.997 0.972 0.965 0.995 0.986 0.967 1.117 0.995 1.003        1.000    4.62

38) I   Fluorene-d10a         ----------------ISTD---------------------
39)  4,6-dinitro-2-methylphenol
               0.030 0.043       0.023 0.041       0.033 0.052        0.037#  28.47
           ---- Quadratic regression ----  Coefficient =  0.9994
             Response Ratio = -0.00175 + 0.03617 *A + 0.00257 *A^2

--------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

         M3H73SIM.M        Wed May 29 16:51:54 2024
```

Initial Calibration Verification

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H73-ICV73
Lab FileID: 3H1023.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e3h73\3H1023.D Vial: 11
Acq On : 18 May 2024 5:22 am Operator: rocquans
Sample : icv73-1 Inst : GCMS3H
Misc : op54679a,e3h73,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3H73SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Wed May 29 16:40:24 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	88	0.00	6.17
7	t	Naphthalene	1.460	1.662	-13.8	104	0.00	5.61
8	t	Hexachlorobutadiene	0.283	0.314	-11.0	98	0.00	5.70
9	t	2-Methylnaphthalene	1.048	1.120	-6.9	96	0.00	6.12
12	I	Fluorene-d10	1.000	1.000	0.0	88	0.00	7.49
13	t	Acenaphthylene	1.433	1.513	-5.6	95	0.00	6.86
14	t	Acenaphthene	1.010	1.042	-3.2	93	0.00	7.02
16	t	Fluorene	1.121	1.130	-0.8	91	0.00	7.52
18	t	Hexachlorobenzene	0.347	0.363	-4.6	92	0.00	8.12

			AvgRF	CCRF	% Dev			
20	t	Phenanthrene	1.530	1.520	0.7	89	0.00	8.61
21	t	Anthracene	1.418	1.464	-3.2	89	0.00	8.67
22	I	Fluoranthene-d10	1.000	1.000	0.0	81	0.00	10.19
23	t	Fluoranthene	0.916	0.944	-3.1	84	0.00	10.22
24	t	Pyrene	0.920	0.934	-1.5	82	0.00	10.53
26	t	Benzo[a]anthracene	0.742	0.729	1.8	70	0.00	12.35
27	t	Chrysene	0.778	0.792	-1.8	75	0.00	12.41
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	72	0.00	14.33
29	t	Benzo[b]fluoranthene	0.930	0.967	-4.0	71	0.00	13.92
30	t	Benzo[k]fluoranthene	0.919	1.090	-18.6	81	0.00	13.97
31	t	Benzo[a]pyrene	1.008	1.013	-0.5	74	0.00	14.36
32	t	Indeno[1,2,3-cd]pyrene	1.012	1.083	-7.0	76	0.00	15.79
33	t	Dibenz[a,h]anthracene	0.670	0.739	-10.3	73	0.00	15.84
34	t	Benzo[g,h,i]perylene	0.845	0.941	-11.4	77	0.00	16.14
35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	88	0.00	6.17
37	t	1-Methylnaphthalene	1.000	1.060	-6.0	96	0.00	6.20

Initial Calibration Verification

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H73-ICV73
Lab FileID: 3H1023.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3H1014.D M3H73SIM.M Wed May 29 16:48:12 2024

Initial Calibration Verification

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H73-ICV73
Lab FileID: 3H1024.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e3h73\3H1024.D Vial: 12
Acq On : 18 May 2024 5:46 am Operator: rocquans
Sample : icv73-1 Inst : GCMS3H
Misc : op54679a,e3h73,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3H73SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Wed May 29 16:40:24 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
35 I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	81	0.00	6.17
36 t	1,4-Dioxane	0.169	0.188	-11.2	90	0.00	2.78

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3H1014.D M3H73SIM.M Wed May 29 16:49:49 2024

Initial Calibration Verification

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H73-ICV73
Lab FileID: 3H1025.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e3h73\3H1025.D Vial: 13
Acq On : 18 May 2024 6:11 am Operator: rocquans
Sample : icv73-5 Inst : GCMS3H
Misc : op54679a,e3h73,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M3H73SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Wed May 29 16:40:24 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	81	0.00	6.17
4	t	Phenol	0.527	0.580	-10.1	88	0.00	4.46
12	I	Fluorene-d10	1.000	1.000	0.0	79	0.00	7.49
		----------	True	Calc.	% Drift	----------		
19	t	Pentachlorophenol	5.000	5.120	-2.4	74	0.00	8.35
38	I	Fluorene-d10a	1.000	1.000	0.0	79	0.00	7.49
		----------	True	Calc.	% Drift	----------		
39	t	4,6-dinitro-2-methylpheno	5.000	6.011	-20.2	91	0.00	7.57

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3H1014.D M3H73SIM.M Wed May 29 16:51:36 2024

Continuing Calibration Summary

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H82-CC73
Lab FileID: 3H1171.D

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\altheam\e3h82\3H1171.d Vial: 2
Acq On : 1 Jun 2024 2:04 am Operator: rocquans
Sample : cc73-1 Inst : GCMS3H
Misc : op53776a,e3h82,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...ethod\M3H73SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Mon Jun 03 07:13:29 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	86	0.00	6.17
2	S	2-Fluorophenol	0.423	0.432	-2.1	89	0.00	3.85
3	S	Phenol-d5	0.471	0.518	-10.0	95	0.00	4.46
4	t	Phenol	0.527	0.555	-5.3	89	0.00	4.47
6	S	Nitrobenzene-d5	0.370	0.452	-22.2#	100	0.00	5.10
7	t	Naphthalene	1.460	1.399	4.2	86	0.00	5.61
8	t	Hexachlorobutadiene	0.283	0.281	0.7	85	0.00	5.70
9	t	2-Methylnaphthalene	1.048	1.007	3.9	84	0.00	6.12
11	S	2-Fluorobiphenyl	1.259	1.234	2.0	85	0.00	6.41
12	I	Fluorene-d10	1.000	1.000	0.0	92	0.00	7.50
13	t	Acenaphthylene	1.433	1.338	6.6	88	0.00	6.86
14	t	Acenaphthene	1.010	0.942	6.7	88	0.00	7.02
16	t	Fluorene	1.121	1.051	6.2	88	0.00	7.53
17	S	2,4,6-Tribromophenol	0.095	0.174	-83.2#	139	0.00	7.78
18	t	Hexachlorobenzene	0.347	0.365	-5.2	97	0.00	8.12
		----------	True	Calc.	% Drift	----------		
19	t	Pentachlorophenol	5.000	8.147	-62.9#	145	0.00	8.36
		----------	AvgRF	CCRF	% Dev	----------		
20	t	Phenanthrene	1.530	1.504	1.7	92	0.00	8.62
21	t	Anthracene	1.418	1.500	-5.8	95	0.00	8.68
22	I	Fluoranthene-d10	1.000	1.000	0.0	94	0.00	10.20
23	t	Fluoranthene	0.916	0.913	0.3	94	0.00	10.23
24	t	Pyrene	0.920	0.950	-3.3	97	0.00	10.54
25	S	Terphenyl-d14	0.724	0.771	-6.5	96	0.00	10.84
26	t	Benzo[a]anthracene	0.742	0.875	-17.9	97	0.00	12.37
27	t	Chrysene	0.778	0.874	-12.3	96	0.00	12.42
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	107	0.00	14.35
29	t	Benzo[b]fluoranthene	0.930	1.021	-9.8	112	0.00	13.94
30	t	Benzo[k]fluoranthene	0.919	0.957	-4.1	107	0.00	13.98
31	t	Benzo[a]pyrene	1.008	0.994	1.4	108	0.00	14.38
32	t	Indeno[1,2,3-cd]pyrene	1.012	1.254	-23.9#	131	0.00	15.81
33	t	Dibenz[a,h]anthracene	0.670	0.893	-33.3#	133	0.00	15.85
34	t	Benzo[g,h,i]perylene	0.845	0.986	-16.7	120	0.00	16.16
35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	86	0.00	6.17
36	t	1,4-Dioxane	0.169	0.166	1.8	84	0.00	2.77
37	t	1-Methylnaphthalene	1.000	0.960	4.0	85	0.00	6.20

Continuing Calibration Summary

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3H82-CC73
Lab FileID: 3H1171.D

38	I	Fluorene-d10a	1.000	1.000	0.0	92	0.00	7.50
			True	Calc.	% Drift			
39	t	4,6-dinitro-2-methylpheno	5.000	12.587	-151.7#	249	0.00	7.58

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3H1171.d M3H73SIM.M Mon Jun 03 07:13:39 2024

Run Sequence Report

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: E3H73	**Method:** SW846 8270E BY SIM	**Instrument ID:** GCMS3H

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E3H73-DFTPP	3H1013A.D	05/18/24 01:16	n/a	DFTPP Tune
E3H73-ICC73	3H1014.D	05/18/24 01:40	n/a	Initial cal 1
E3H73-IC73	3H1015.D	05/18/24 02:04	n/a	Initial cal 0.01
E3H73-IC73	3H1016.D	05/18/24 02:29	n/a	Initial cal 0.02
E3H73-IC73	3H1017.D	05/18/24 02:54	n/a	Initial cal 0.05
E3H73-IC73	3H1018.D	05/18/24 03:19	n/a	Initial cal 0.1
E3H73-IC73	3H1019.D	05/18/24 03:43	n/a	Initial cal 0.2
E3H73-IC73	3H1020.D	05/18/24 04:08	n/a	Initial cal 0.5
E3H73-IC73	3H1021.D	05/18/24 04:32	n/a	Initial cal 2.5
E3H73-IC73	3H1022.D	05/18/24 04:57	n/a	Initial cal 5
E3H73-ICV73	3H1023.D	05/18/24 05:22	n/a	Initial cal verification 1
E3H73-ICV73	3H1024.D	05/18/24 05:46	n/a	Initial cal verification 1
E3H73-ICV73	3H1025.D	05/18/24 06:11	n/a	Initial cal verification 5

Run Sequence Report

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: E3H82 **Method:** SW846 8270E BY SIM **Instrument ID:** GCMS3H

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E3H82-DFTPP	3H1170.D	06/01/24 01:52	n/a	DFTPP Tune
E3H82-CC73	3H1171.D	06/01/24 02:04	n/a	Continuing cal 1
OP54985A-MB2	3H1173.D	06/01/24 03:43	OP54985A	Method Blank
ZZZZZZ	3H1174.D	06/01/24 04:08	OP54985A	(unrelated sample)
OP55022A-MB2	3H1175.D	06/01/24 04:32	OP55022A	Method Blank
OP55022A-BS122	3H1176.D	06/01/24 04:56	OP55022A	Blank Spike
OP55107A-MB1	3H1177.D	06/01/24 05:21	OP55107A	Method Blank
OP55107A-BS12	3H1178.D	06/01/24 05:45	OP55107A	Blank Spike
OP55107A-BSD12	3H1179.D	06/01/24 06:10	OP55107A	Blank Spike Duplicate
OP55107A-LB51	3H1180.D	06/01/24 06:34	OP55107A	Leachate Blank
OP55022A-MSA	3H1181.D	06/01/24 06:58	OP55022A	Matrix Spike
OP55022A-MSDA	3H1182.D	06/01/24 07:23	OP55022A	Matrix Spike Duplicate
ZZZZZZ	3H1183.D	06/01/24 07:47	OP55107A	(unrelated sample)
ZZZZZZ	3H1184.D	06/01/24 08:12	OP55107A	(unrelated sample)
ZZZZZZ	3H1185.D	06/01/24 08:36	OP55107A	(unrelated sample)
JD87833-15T	3H1186.D	06/01/24 09:01	OP55107A	DUPE 1
ZZZZZZ	3H1187.D	06/01/24 09:25	OP55107A	(unrelated sample)
ZZZZZZ	3H1188.D	06/01/24 09:49	OP55107A	(unrelated sample)
ZZZZZZ	3H1189.D	06/01/24 10:14	OP55107A	(unrelated sample)

MS Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Ying Li
06/03/24 17:31

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\altheam\e3h82\
Data File : 3H1186.d
Acq On : 1 Jun 2024 9:01 am
Operator : rocquans
Sample : jd87833-15t Inst : GCMS3H
Misc : op55107a,e3h82,500,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 03 07:40:06 2024
Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3H73SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jun 03 07:13:29 2024
Response via : Initial Calibration

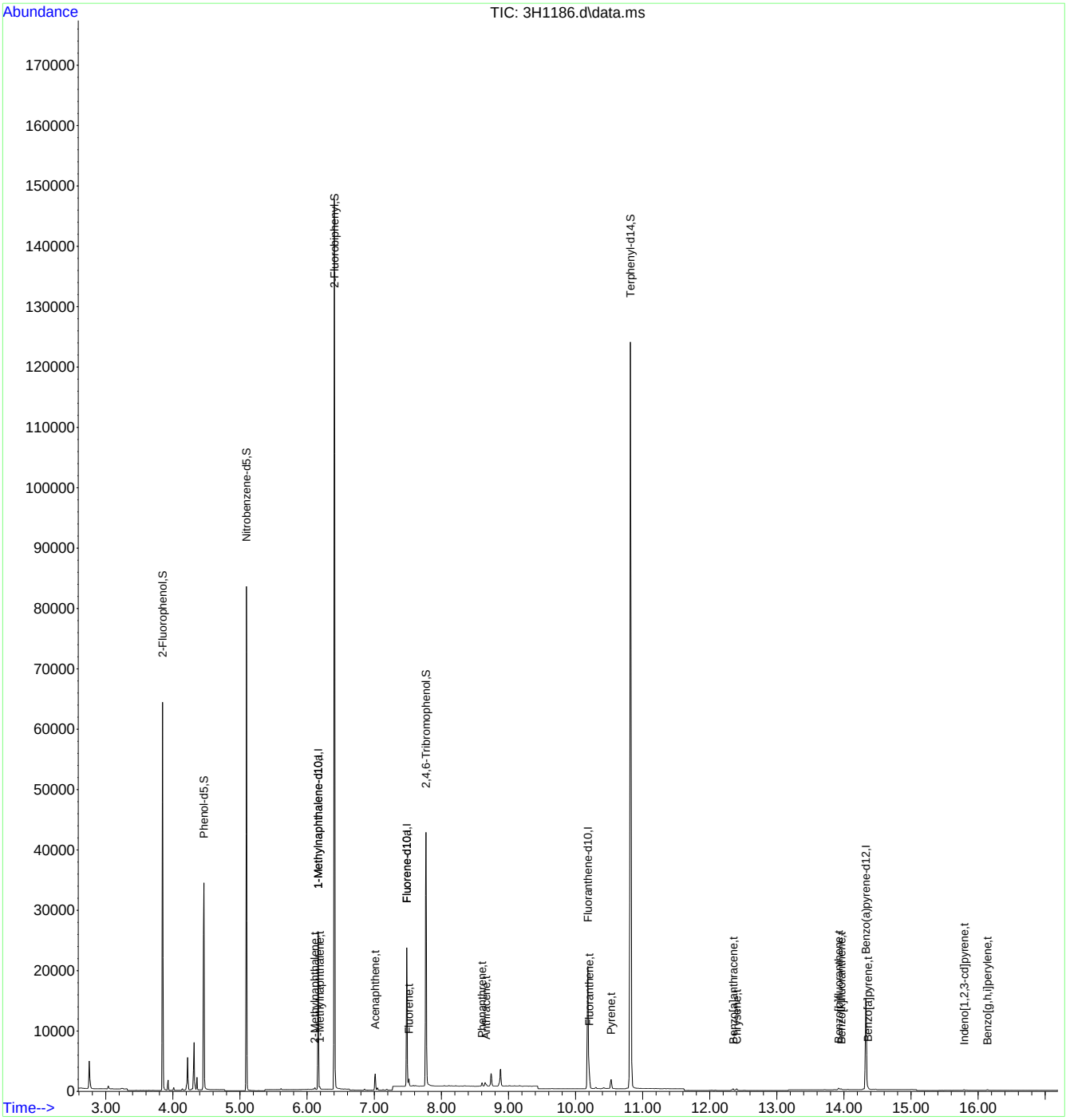
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.163	152	8256	4.00	ppm	0.00
12) Fluorene-d10	7.486	176	9524	4.00	ppm	-0.01
22) Fluoranthene-d10	10.185	212	17816	4.00	ppm	-0.01
28) Benzo(a)pyrene-d12	14.327	264	15318	4.00	ppm	-0.02
35) 1-Methylnaphthalene-d10a	6.163	152	8256	4.00	ppm	0.00
38) Fluorene-d10a	7.486	176	9524	4.00	ppm	-0.01
System Monitoring Compounds						
2) 2-Fluorophenol	3.847	112	26606	30.47	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 60.94%#			
3) Phenol-d5	4.462	99	24185	24.88	ppm	0.00
Spiked Amount 50.000			Recovery = 49.76%			
6) Nitrobenzene-d5	5.094	82	36324	47.57	ppm	0.00
Spiked Amount 50.000			Recovery = 95.14%			
11) 2-Fluorobiphenyl	6.404	172	95327	36.67	ppm	0.00
Spiked Amount 50.000			Recovery = 73.34%			
17) 2,4,6-Tribromophenol	7.772	330	18158	80.52	ppm	-0.01
Spiked Amount 50.000			Recovery = 161.04%			
25) Terphenyl-d14	10.819	244	120062	37.25	ppm	-0.02
Spiked Amount 50.000			Recovery = 74.50%			
Target Compounds						Qvalue
9) 2-Methylnaphthalene	6.115	142	98	0.0453	ppm	89
14) Acenaphthene	7.016	153	1008	0.4193	ppm	95
16) Fluorene	7.516	166	446	0.1670	ppm	99
20) Phenanthrene	8.608	178	447	0.1227	ppm	98
21) Anthracene	8.669	178	218	0.0646	ppm	82
23) Fluoranthene	10.206	202	1896	0.4646	ppm	94
24) Pyrene	10.533	202	1176	0.2871	ppm	95
26) Benzo[a]anthracene	12.350	228	253	0.0765	ppm	99
27) Chrysene	12.403	228	266	0.0768	ppm	96
29) Benzo[b]fluoranthene	13.922	252	312	0.0876	ppm	98
30) Benzo[k]fluoranthene	13.960	252	120	0.0341	ppm	96
31) Benzo[a]pyrene	14.358	252	212	0.0549	ppm	98
32) Indeno[1,2,3-cd]pyrene	15.794	276	197m	0.0508	ppm	
34) Benzo[g,h,i]perylene	16.138	276	182	0.0563	ppm	100
37) 1-Methylnaphthalene	6.187	142	130m	0.0630	ppm	

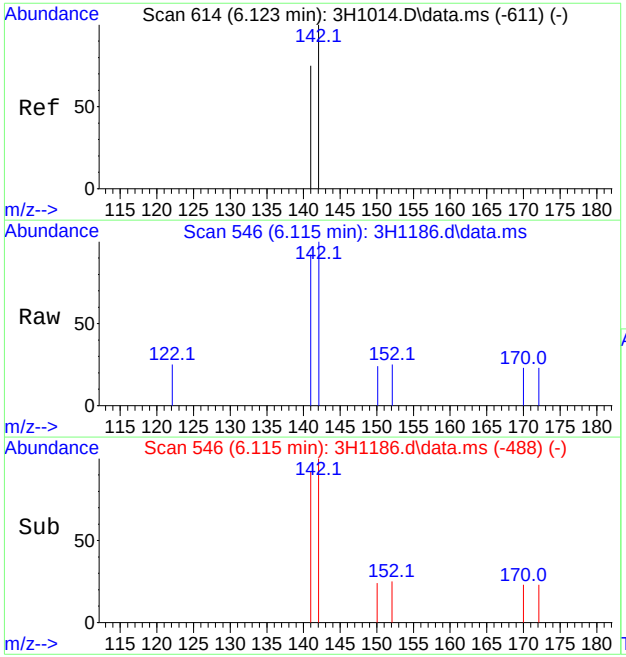
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\altheam\e3h82\
Data File : 3H1186.d
Acq On : 1 Jun 2024 9:01 am
Operator : rocquans
Sample : jd87833-15t Inst : GCMS3H
Misc : op55107a,e3h82,500,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 03 07:40:06 2024
Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3H73SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jun 03 07:13:29 2024
Response via : Initial Calibration

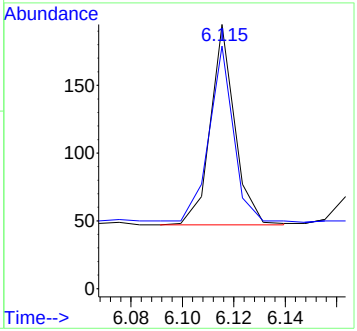


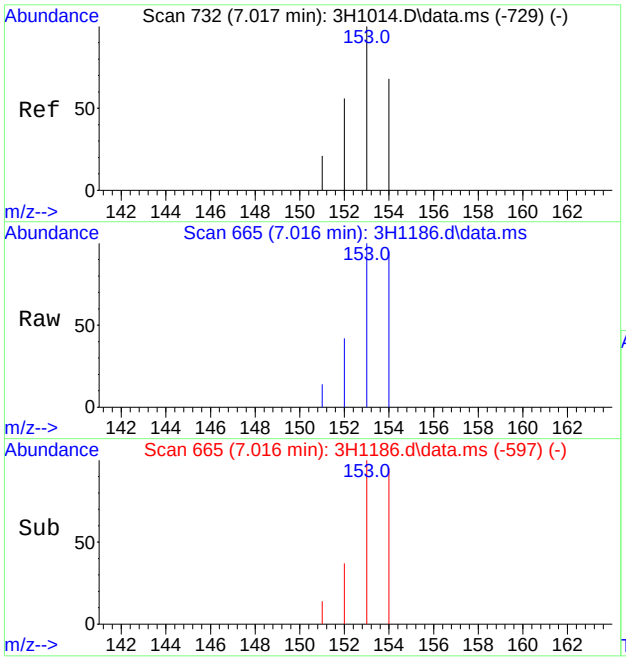


#9
2-Methylnaphthalene
Concen: 0.0453 ppm
RT: 6.115 min Scan# 546
Delta R.T. -0.008 min
Lab File: 3H1186.d
Acq: 1 Jun 2024 9:01 am

Tgt Ion:142 Resp: 98

Ion	Ratio	Lower	Upper
142	100		
141	87.5	47.6	107.6

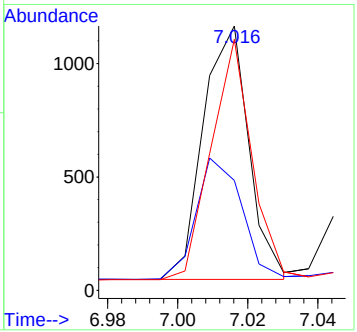


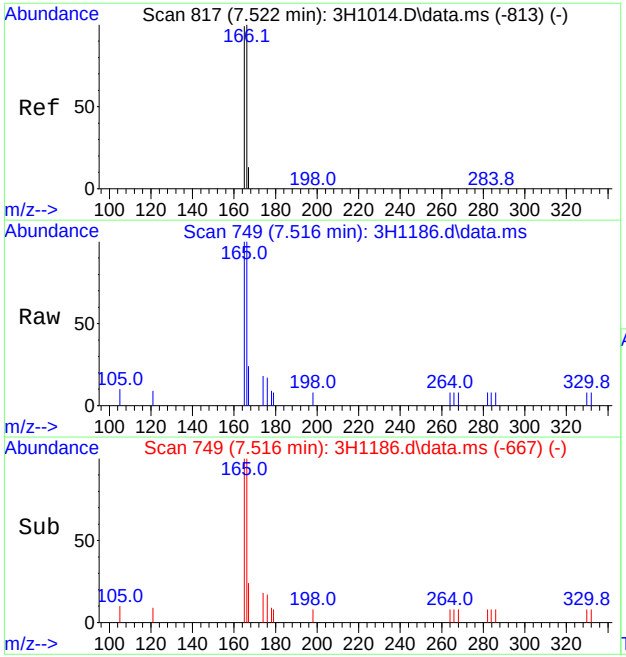


#14
Acenaphthene
Concen: 0.4193 ppm
RT: 7.016 min Scan# 665
Delta R.T. -0.007 min
Lab File: 3H1186.d
Acq: 1 Jun 2024 9:01 am

Tgt Ion:153 Resp: 1008

Ion	Ratio	Lower	Upper
153	100		
152	38.8	9.3	69.3
154	94.6	58.4	118.4

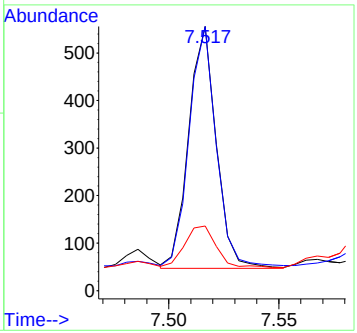


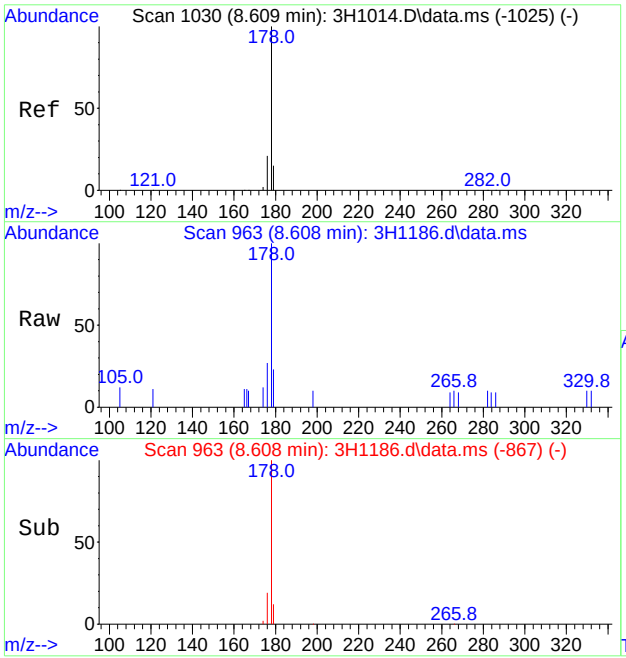


#16
Fluorene
Concen: 0.1670 ppm
RT: 7.516 min Scan# 749
Delta R.T. -0.010 min
Lab File: 3H1186.d
Acq: 1 Jun 2024 9:01 am

Tgt Ion:166 Resp: 446

Ion	Ratio	Lower	Upper
166	100		
165	99.7	69.5	129.5
167	17.0	0.0	43.0

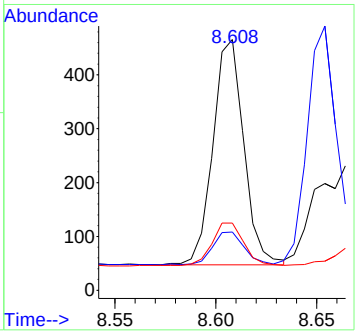


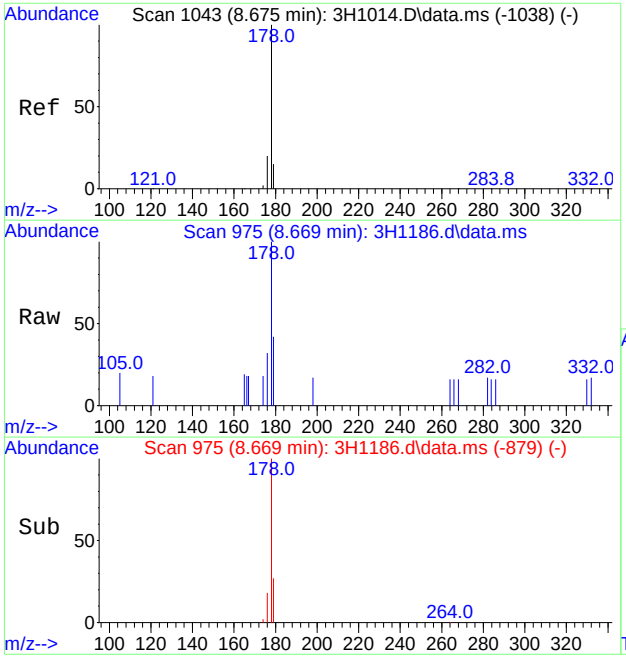


#20
Phenanthrene
Concen: 0.1227 ppm
RT: 8.608 min Scan# 963
Delta R.T. -0.010 min
Lab File: 3H1186.d
Acq: 1 Jun 2024 9:01 am

Tgt Ion:178 Resp: 447

Ion	Ratio	Lower	Upper
178	100		
179	13.8	0.0	45.1
176	19.1	0.0	49.7

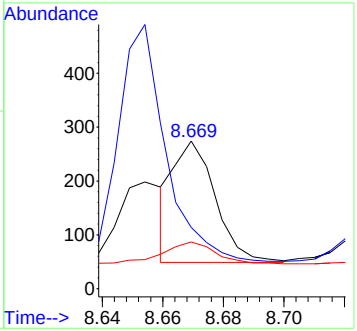


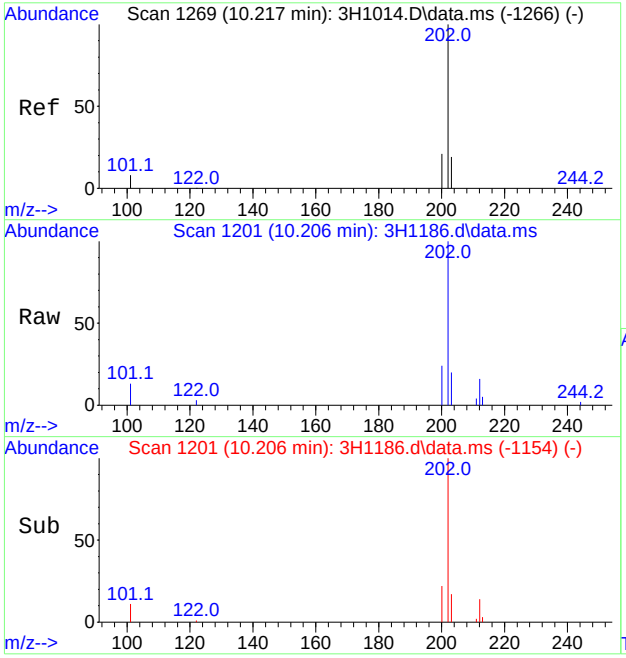


#21
Anthracene
Concen: 0.0646 ppm
RT: 8.669 min Scan# 975
Delta R.T. -0.010 min
Lab File: 3H1186.d
Acq: 1 Jun 2024 9:01 am

Tgt Ion:178 Resp: 218

Ion	Ratio	Lower	Upper
178	100		
179	0.0	0.0	45.1
176	20.8	0.0	49.4

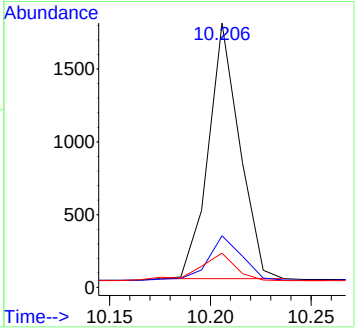


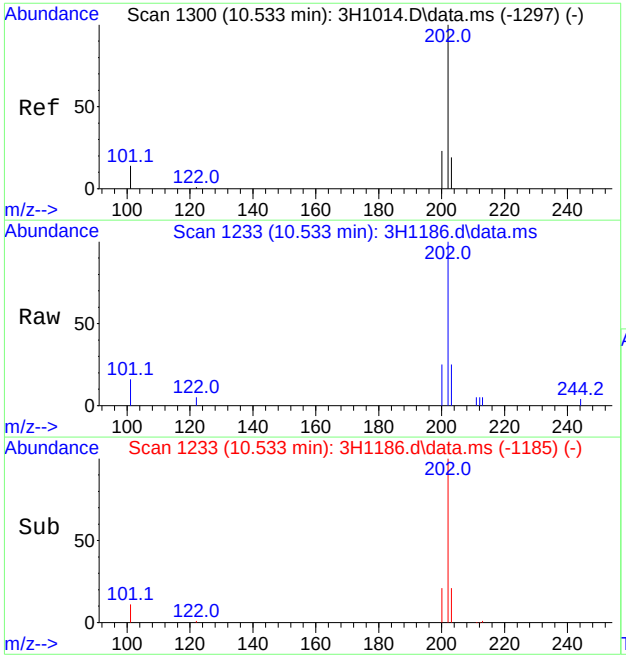


#23
Fluoranthene
Concen: 0.4646 ppm
RT: 10.206 min Scan# 1201
Delta R.T. -0.021 min
Lab File: 3H1186.d
Acq: 1 Jun 2024 9:01 am

Tgt Ion:202 Resp: 1896

Ion	Ratio	Lower	Upper
202	100		
203	17.2	0.0	49.6
101	10.0	0.0	37.0

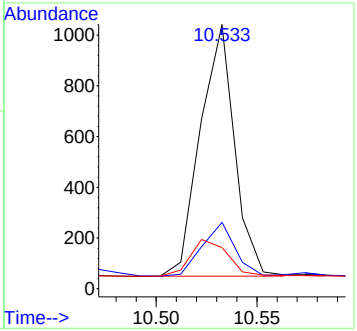


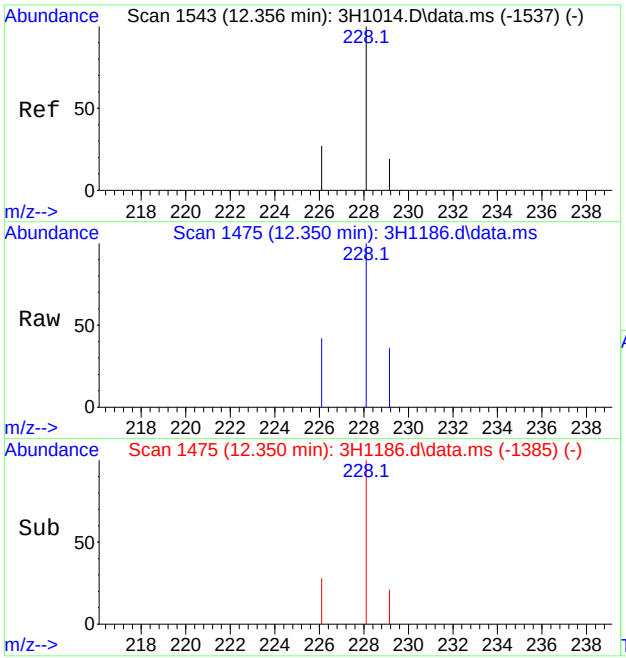


#24
Pyrene
Concen: 0.2871 ppm
RT: 10.533 min Scan# 1233
Delta R.T. -0.010 min
Lab File: 3H1186.d
Acq: 1 Jun 2024 9:01 am

Tgt Ion:202 Resp: 1176

Ion	Ratio	Lower	Upper
202	100		
203	21.1	0.0	48.5
101	11.3	0.0	42.6

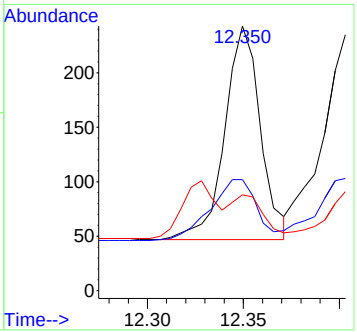


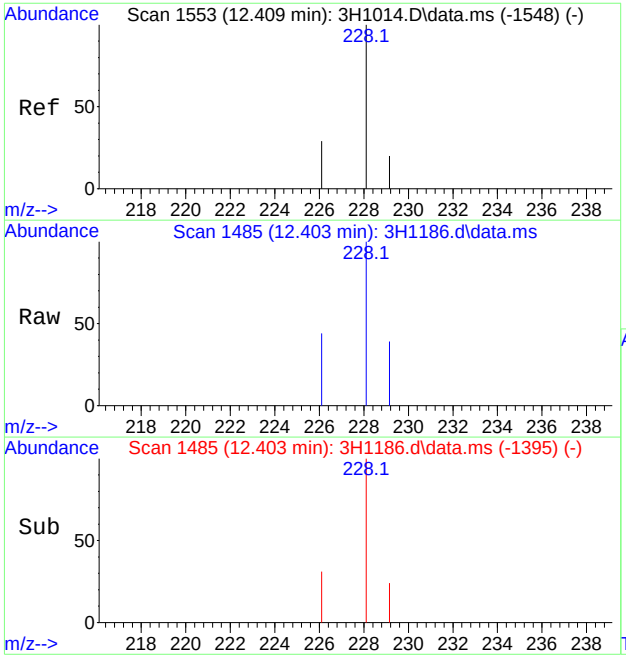


#26
Benzo[a]anthracene
Concen: 0.0765 ppm
RT: 12.350 min Scan# 1475
Delta R.T. -0.016 min
Lab File: 3H1186.d
Acq: 1 Jun 2024 9:01 am

Tgt Ion:228 Resp: 253

Ion	Ratio	Lower	Upper
228	100		
226	27.5	0.0	58.0
229	19.7	0.0	48.7

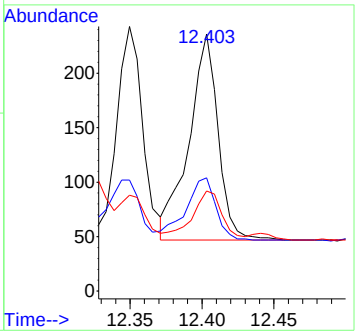


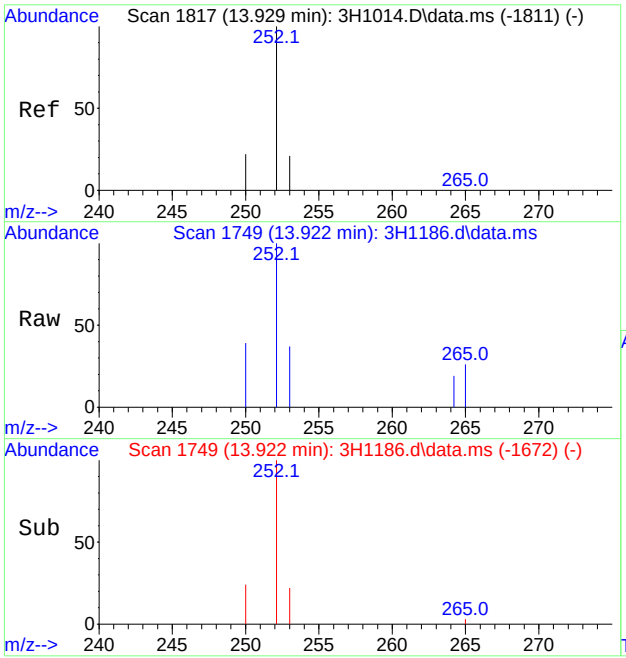


#27
Chrysene
Concen: 0.0768 ppm
RT: 12.403 min Scan# 1485
Delta R.T. -0.016 min
Lab File: 3H1186.d
Acq: 1 Jun 2024 9:01 am

Tgt Ion:228 Resp: 266

Ion	Ratio	Lower	Upper
228	100		
226	29.7	0.1	60.1
229	23.2	0.0	39.4

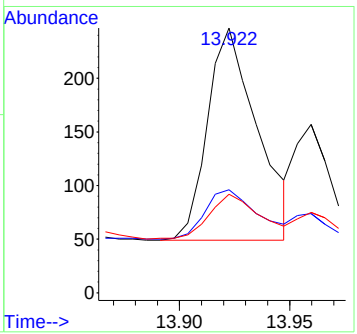


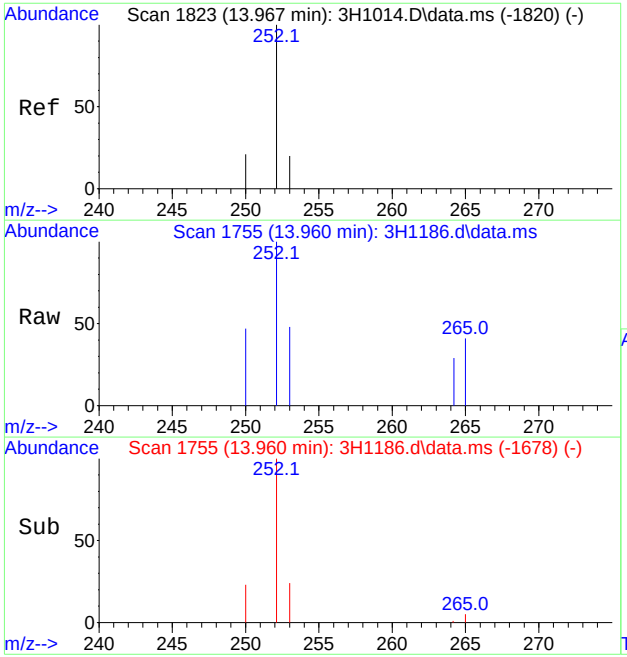


#29
Benzo[b]fluoranthene
Concen: 0.0876 ppm
RT: 13.922 min Scan# 1749
Delta R.T. -0.019 min
Lab File: 3H1186.d
Acq: 1 Jun 2024 9:01 am

Tgt Ion:252 Resp: 312

Ion	Ratio	Lower	Upper
252	100		
250	22.9	0.0	51.1
253	20.9	0.0	51.0

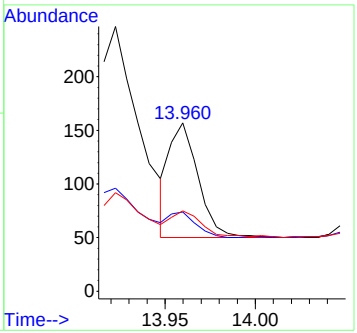


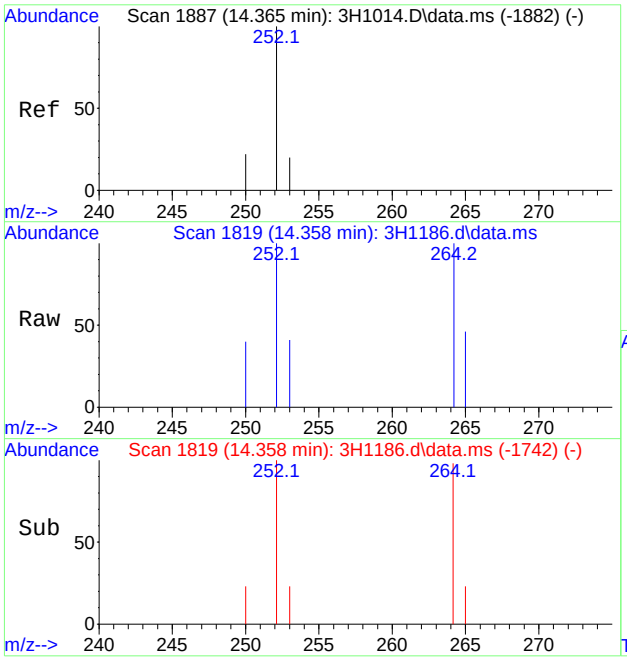


#30
Benzo[k]fluoranthene
Concen: 0.0341 ppm
RT: 13.960 min Scan# 1755
Delta R.T. -0.019 min
Lab File: 3H1186.d
Acq: 1 Jun 2024 9:01 am

Tgt Ion:252 Resp: 120

Ion	Ratio	Lower	Upper
252	100		
250	21.4	0.0	51.0
253	23.9	0.0	51.0

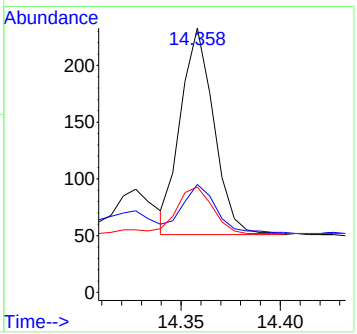


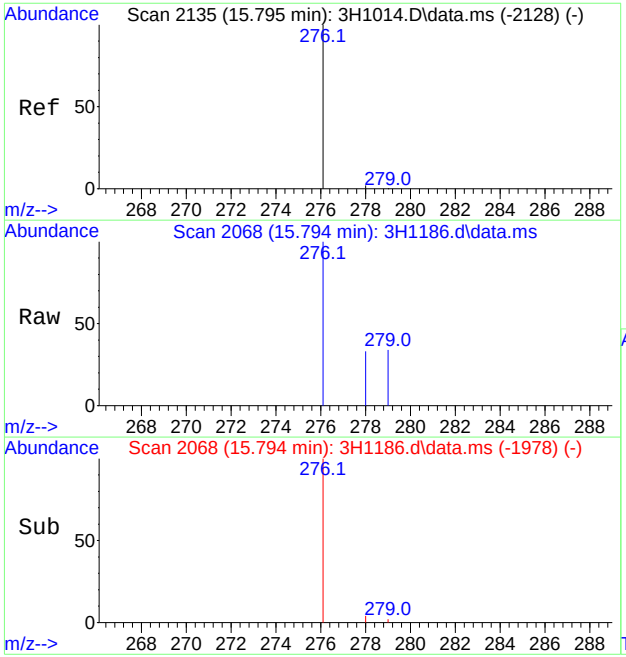


#31
Benzo[a]pyrene
Concen: 0.0549 ppm
RT: 14.358 min Scan# 1819
Delta R.T. -0.019 min
Lab File: 3H1186.d
Acq: 1 Jun 2024 9:01 am

Tgt Ion:252 Resp: 212

Ion	Ratio	Lower	Upper
252	100		
253	22.4	0.0	50.5
250	22.7	0.0	52.8

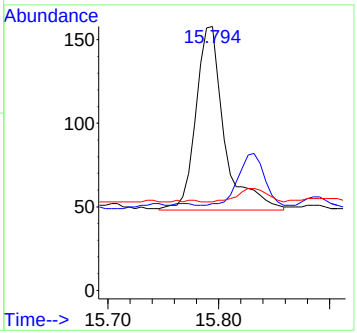


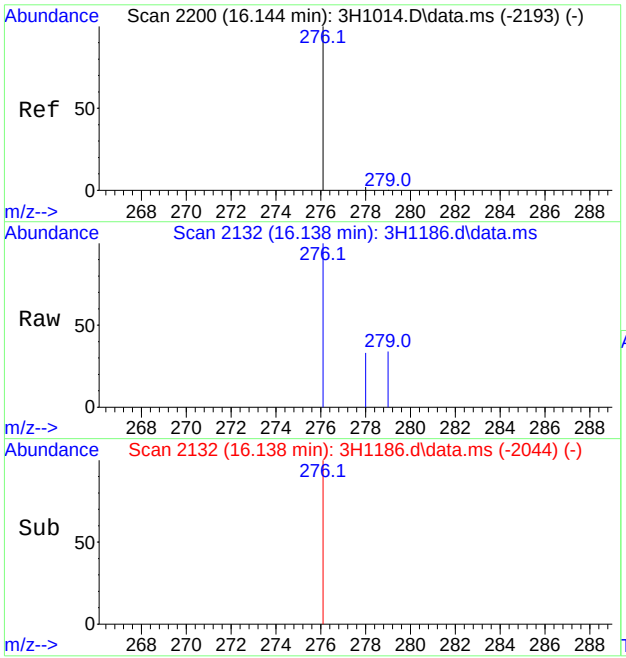


#32
Indeno[1,2,3-cd]pyrene
Concen: 0.0508 ppm m
RT: 15.794 min Scan# 2068
Delta R.T. -0.016 min
Lab File: 3H1186.d
Acq: 1 Jun 2024 9:01 am

Tgt Ion:276 Resp: 197

Ion	Ratio	Lower	Upper
276	100		
278	32.9	0.0	33.8
279	33.5	0.0	31.8#

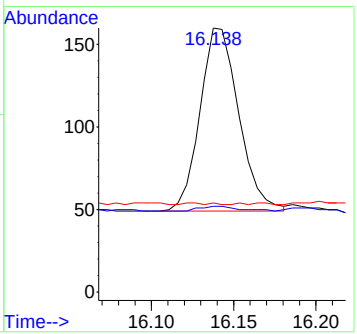


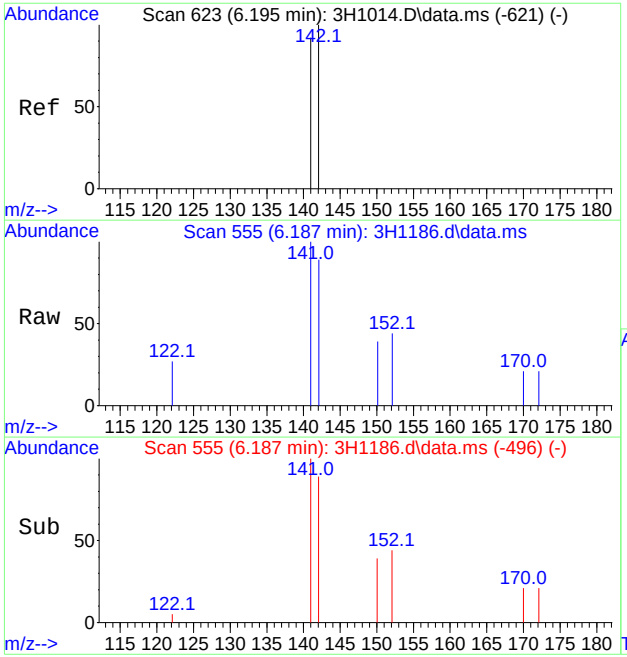


#34
Benzo[g,h,i]perylene
Concen: 0.0563 ppm
RT: 16.138 min Scan# 2132
Delta R.T. -0.027 min
Lab File: 3H1186.d
Acq: 1 Jun 2024 9:01 am

Tgt Ion:276 Resp: 182

Ion	Ratio	Lower	Upper
276	100		
278	2.3	0.0	32.4
279	0.5	0.0	30.1

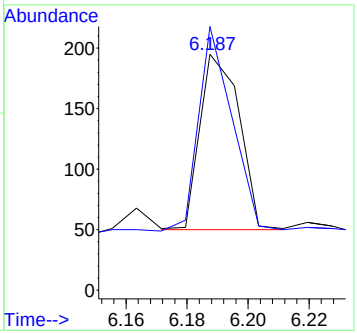




#37
1-Methylnaphthalene
Concen: 0.0630 ppm m
RT: 6.187 min Scan# 555
Delta R.T. -0.008 min
Lab File: 3H1186.d
Acq: 1 Jun 2024 9:01 am

Tgt Ion:142 Resp: 130

Ion	Ratio	Lower	Upper
142	100		
141	111.8	77.9	117.9



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\altheam\e3h82\
Data File : 3H1177.d
Acq On : 1 Jun 2024 5:21 am
Operator : rocquans
Sample : op55107a-mb1 Inst : GCMS3H
Misc : op55107a,e3h82,500,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 07:30:44 2024
Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3H73SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jun 03 07:13:29 2024
Response via : Initial Calibration

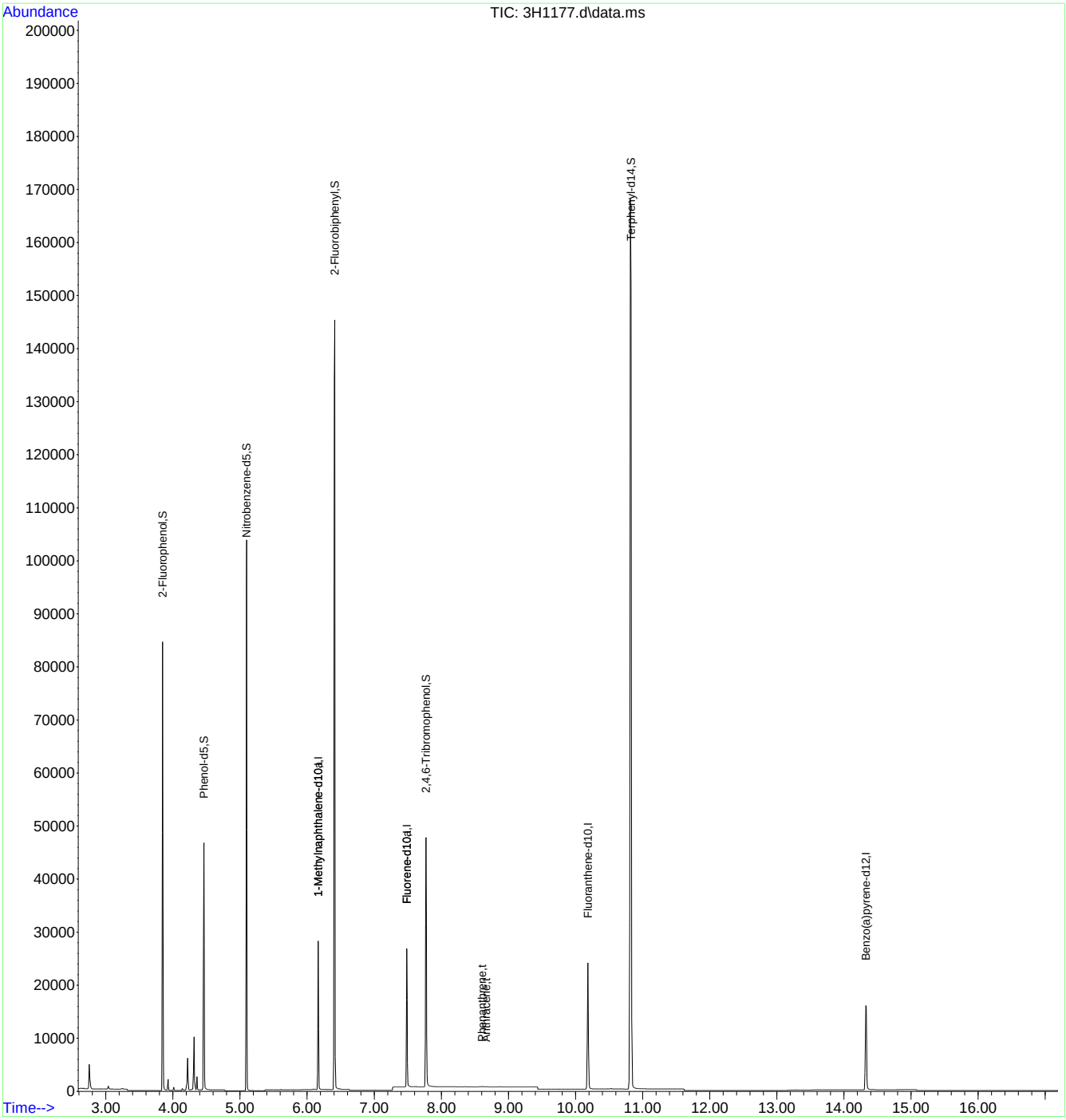
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.164	152	9159	4.00	ppm	0.00
12) Fluorene-d10	7.486	176	10718	4.00	ppm	-0.01
22) Fluoranthene-d10	10.185	212	20097	4.00	ppm	-0.01
28) Benzo(a)pyrene-d12	14.327	264	17528	4.00	ppm	-0.02
35) 1-Methylnaphthalene-d10a	6.164	152	9159	4.00	ppm	0.00
38) Fluorene-d10a	7.486	176	10718	4.00	ppm	-0.01
System Monitoring Compounds						
2) 2-Fluorophenol	3.847	112	32880	33.94	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 67.88%#			
3) Phenol-d5	4.462	99	29816	27.65	ppm	0.00
Spiked Amount 50.000			Recovery = 55.30%			
6) Nitrobenzene-d5	5.094	82	46156	54.49	ppm	0.00
Spiked Amount 50.000			Recovery = 108.98%			
11) 2-Fluorobiphenyl	6.412	172	105316	36.52	ppm	0.00
Spiked Amount 50.000			Recovery = 73.04%			
17) 2,4,6-Tribromophenol	7.772	330	19950	78.61	ppm	-0.01
Spiked Amount 50.000			Recovery = 157.22%			
25) Terphenyl-d14	10.829	244	187593	51.60	ppm	-0.01
Spiked Amount 50.000			Recovery = 103.20%			
Target Compounds						Qvalue
20) Phenanthrene	8.608	178	72	0.0176	ppm	97
21) Anthracene	8.669	178	23	0.0061	ppm	88

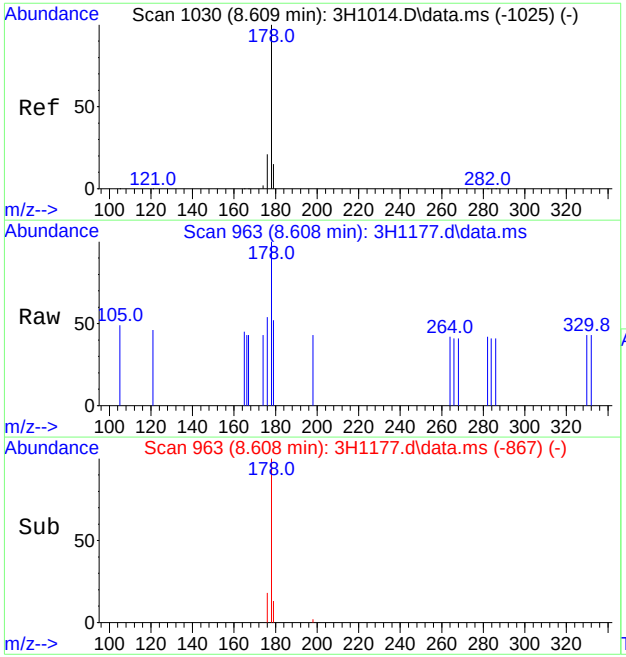
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\altheam\e3h82\
Data File : 3H1177.d
Acq On : 1 Jun 2024 5:21 am
Operator : rocquans
Sample : op55107a-mb1 Inst : GCMS3H
Misc : op55107a,e3h82,500,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 07:30:44 2024
Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3H73SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jun 03 07:13:29 2024
Response via : Initial Calibration

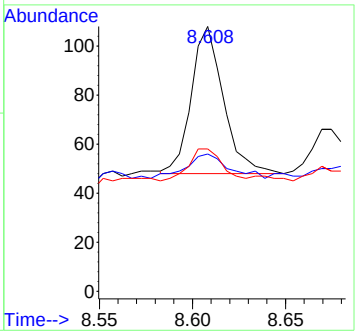


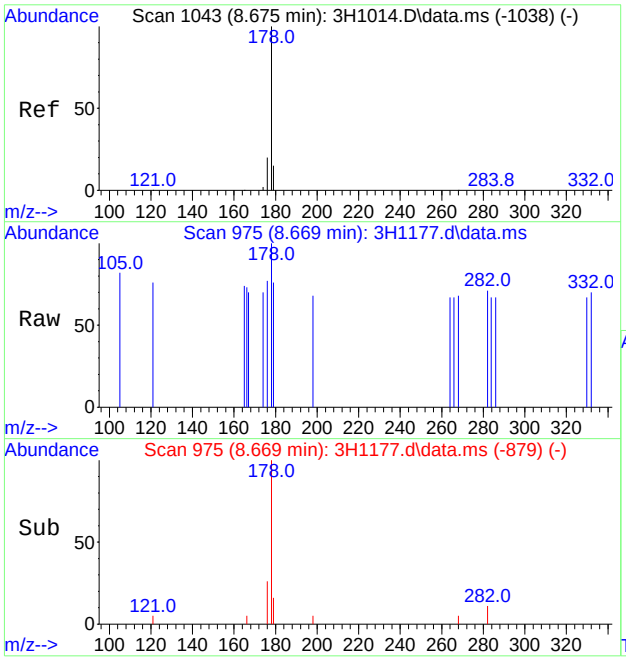


#20
Phenanthrene
Concen: 0.0176 ppm
RT: 8.608 min Scan# 963
Delta R.T. -0.010 min
Lab File: 3H1177.d
Acq: 1 Jun 2024 5:21 am

Tgt Ion:178 Resp: 72

Ion	Ratio	Lower	Upper
178	100		
179	13.4	0.0	45.1
176	21.0	0.0	49.7

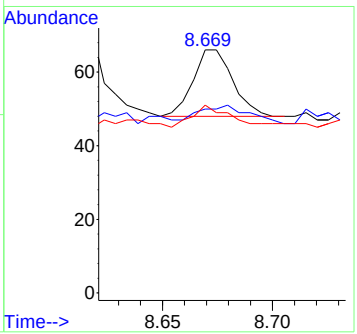




#21
Anthracene
Concen: 0.0061 ppm
RT: 8.669 min Scan# 975
Delta R.T. -0.010 min
Lab File: 3H1177.d
Acq: 1 Jun 2024 5:21 am

Tgt Ion:178 Resp: 23

Ion	Ratio	Lower	Upper
178	100		
179	16.7	0.0	45.1
176	27.8	0.0	49.4



General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JD87833T
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: JD87833-15 **Analyzed:** 06-MAY-24 by SC **Method:** SM2540 G 18TH ED MOD
ClientID: DUPE 1

Wet Weight (Total)	35.07	g
Tare Weight	26.31	g
Dry Weight (Total)	34.27	g
Solids, Percent	90.9	%

APPENDIX F

Soil and Soil Leachate Migration to Groundwater Exposure Pathway Calculator Sheets

NJDEP 2022 SPLP Spreadsheet

Case name/area of concern:	Schedler Property - Berm
Case number:	24-05-28-1117-27
Sampling date:	5/3/2024

CALCULATE SITE SPECIFIC MGW STANDARD

Reset Spreadsheet

Instructions

Back to MGW Site-Specific Menu

Exit

CLICK HERE if chemical is not on drop-down list, or to enter alternate GWRS

Contaminant:	Benzo(a)anthracene (1,2-Benzanth
CAS No:	56-55-3
Water solubility (mg/L)	9.40E-03
Aqueous reporting limit (µg/L):	1.00E-01
Soil reporting limit (mg/kg):	1.70E-01
Ground Water Remediation Std (µg/L)	1.00E-01
DAF (20, or site-specific if approved):	**20**
Leachate Standard (µg/L):	2.00E+00
Henry's law constant (dimensionless):	4.91E-04

NOTE:
USE ONE PAGE PER CONTAMINANT, do not leave empty rows between samples
Do not enter samples with soil concentrations at or below the soil reporting limit
SPLP leachate concentrations may be entered down to the detection limit, but see guidance
Enter site-specific dilution-attenuation factor (DAF) if desired

Data entry cells (do not skip rows)
Optional data entry
Calculated or locked cells
Indicates that Alternative Remediation Standard needs to be recalculated

Sample ID	Soil sample weight (kg)	Leachate Volume (L)	Total Soil Concentration (mg/kg)	SPLP Leachate Concentration (µg/L)	Final pH of Leachate (except VOCs)	Optional data				Kd (L/kg)	% Contaminant in Leachate	Field leachate concentration (µg/L)	Pass or fail?
						Sampling Depth (ft)	Soil Type	Organic Carbon (mg/kg)	Organic Carbon (%)				
SB-4	1.001	2.002	1.55	0.0785	9.49					19743.22	0.01	0.08	PASS
SB-6	1.008	2.016	1.58	0.104	9.53					15190.31	0.01	0.10	PASS
DUPE 1	1.001	2.002	1.82	0.143	8.15					12725.27	0.02	0.14	PASS
SB-5	1.002	3.005	1.85	0.0483	8.91					38299.28	0.01	0.05	PASS

SPLP RESULTS for

OPTION 1a: All adjusted leachate concentrations are below the leachate criterion

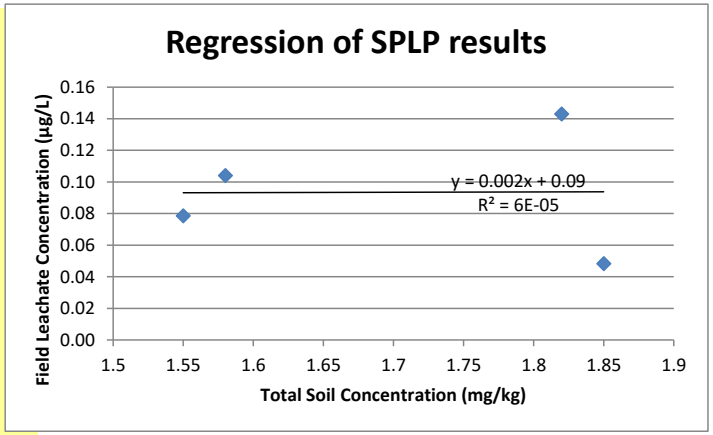
REMEDIATION STANDARD = 1.85 mg/kg

OPTION 1b: Simple inspection of tabulated results to find highest acceptable standard
EVERYTHING PASSED, OPTION 1b NOT VALID

OPTION 2: Remediation standard using site-specific Kd value
Kd ratio = 3.01, AVERAGING Kds OK
Kd USED FOR CALCULATING STANDARD = 21489.5204 L/kg
result before rounding = 42.9793 mg/kg
REMEDIATION STANDARD = 1.8 mg/kg (controlled by maximum soil concentration)

OPTION 3: Remediation standard using linear regression

Soil concentration midrange = 1.7
Number of points above midrange = 2
Enough points above midrange? YES
R-Square high enough? NO
Leachate criterion within range of leachate concentrations? NO
OPTION 3 NOT VALID



NJDEP 2022 SPLP Spreadsheet

Case name/area of concern:	Schedler Property - Berm
Case number:	24-05-28-1117-27
Sampling date:	5/3/2024
Contaminant:	Lead (total)
CAS No:	7439-92-1
Water solubility (mg/L)	NA
Aqueous reporting limit (µg/L):	5.00E+00
Soil reporting limit (mg/kg):	5.00E-01
Ground Water Remediation Std (µg/L)	5.00E+00
DAF (20, or site-specific if approved):	**20**
Leachate Standard (µg/L):	1.00E+02
Henry's law constant (dimensionless):	0.00E+00

CALCULATE SITE SPECIFIC MGW STANDARD

Reset Spreadsheet

CLICK HERE if chemical is not on drop-down list, or to enter alternate GWRS

Instructions

Back to MGW Site-Specific Menu

Exit

NOTE:
USE ONE PAGE PER CONTAMINANT, do not leave empty rows between samples
Do not enter samples with soil concentrations at or below the soil reporting limit
SPLP leachate concentrations may be entered down to the detection limit, but see guidance
Enter site-specific dilution-attenuation factor (DAF) if desired

Data entry cells (do not skip rows)
Optional data entry
Calculated or locked cells
Indicates that Alternative Remediation Standard needs to be recalculated

Sample ID	Soil sample weight (kg)	Leachate Volume (L)	Total Soil Concentration (mg/kg)	SPLP Leachate Concentration (µg/L)	Final pH of Leachate (except VOCs)	Optional data				Kd (L/kg)	% Contaminant in Leachate	Field leachate concentration (µg/L)	Pass or fail?
						Sampling Depth (ft)	Soil Type	Organic Carbon (mg/kg)	Organic Carbon (%)				
SB-11	0.1	2	28.9	50	9.65					558	3.46	51.78	PASS
SB-9	1.001	2.002	71.1	50	10.02					1420	0.14	50.07	PASS
SB-1	1.006	2.013	169	50	9.38					3377.999	0.06	50.03	PASS

SPLP RESULTS for

OPTION 1a: All adjusted leachate concentrations are below the leachate criterion

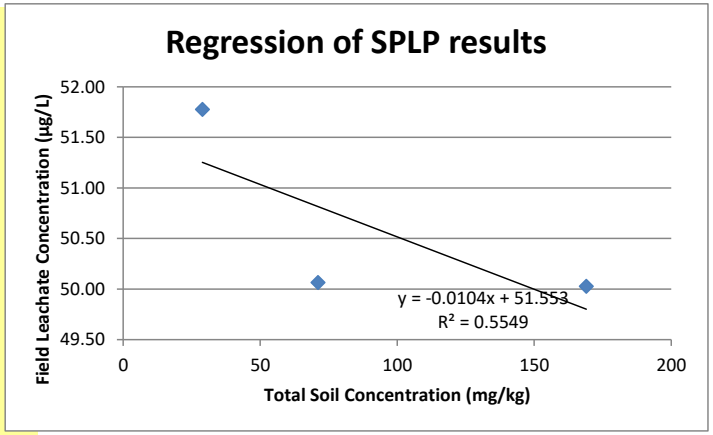
REMEDIATION STANDARD = 169 mg/kg

OPTION 1b: Simple inspection of tabulated results to find highest acceptable standard
EVERYTHING PASSED, OPTION 1b NOT VALID

OPTION 2: Remediation standard using site-specific Kd value
Kd ratio = 6.05, AVERAGING Kds OK
Kd USED FOR CALCULATING STANDARD = 1785.333 L/kg
result before rounding = 178.5486 mg/kg
REMEDIATION STANDARD = 170 mg/kg (controlled by maximum soil concentration)

OPTION 3: Remediation standard using linear regression

Soil concentration midrange = 98.95
Number of points above midrange = 1
Enough points above midrange? NO
R-Square high enough? NO
Leachate criterion within range of leachate concentrations? NO
OPTION 3 NOT VALID



NJDEP 2022 SPLP Spreadsheet

Case name/area of concern:	Schedler Property - Berm
Case number:	24-05-28-1117-27
Sampling date:	5/3/2024
Contaminant:	Mercury (total)
CAS No:	7439-97-6
Water solubility (mg/L)	NA
Aqueous reporting limit (µg/L):	5.00E-02
Soil reporting limit (mg/kg):	1.00E-01
Ground Water Remediation Std (µg/L)	2.00E+00
DAF (20, or site-specific if approved):	**20**
Leachate Standard (µg/L):	4.00E+01
Henry's law constant (dimensionless):	0.00E+00

CALCULATE SITE SPECIFIC MGW STANDARD

Reset Spreadsheet

Instructions

CLICK HERE if chemical is not on drop-down list, or to enter alternate GWRS

Back to MGW Site-Specific Menu

Exit

NOTE:
USE ONE PAGE PER CONTAMINANT, do not leave empty rows between samples
Do not enter samples with soil concentrations at or below the soil reporting limit
SPLP leachate concentrations may be entered down to the detection limit, but see guidance
Enter site-specific dilution-attenuation factor (DAF) if desired

Data entry cells (do not skip rows)
Optional data entry
Calculated or locked cells
Indicates that Alternative Remediation Standard needs to be recalculated

Sample ID	Soil sample weight (kg)	Leachate Volume (L)	Total Soil Concentration (mg/kg)	SPLP Leachate Concentration (µg/L)	Final pH of Leachate (except VOCs)	Optional data				Kd (L/kg)	% Contaminant in Leachate	Field leachate concentration (µg/L)	Pass or fail?
						Sampling Depth (ft)	Soil Type	Organic Carbon (mg/kg)	Organic Carbon (%)				
SB-14	0.1003	2.006	0.17	0.2	6.8					830	2.35	0.20	PASS
SB-9	0.1001	2.002	0.19	0.0002	10.02					949980	0.00	0.00	PASS
SB-1	0.1006	2.013	0.29	0.0002	9.38					1449980	0.00	0.00	PASS

SPLP RESULTS for

OPTION 1a: All adjusted leachate concentrations are below the leachate criterion

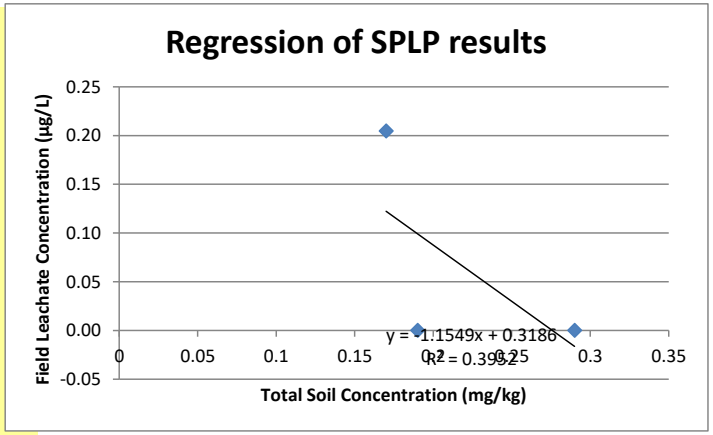
REMEDIATION STANDARD = 0.29 mg/kg

OPTION 1b: Simple inspection of tabulated results to find highest acceptable standard
EVERYTHING PASSED, OPTION 1b NOT VALID

OPTION 2: Remediation standard using site-specific Kd value
Kd ratio = 1746.96, USE MINIMUM Kd
Kd USED FOR CALCULATING STANDARD = 830. L/kg
result before rounding = 33.2061 mg/kg
REMEDIATION STANDARD = 0.29 mg/kg (controlled by maximum soil concentration)

OPTION 3: Remediation standard using linear regression

Soil concentration midrange = .23
Number of points above midrange = 1
Enough points above midrange? NO
R-Square high enough? NO
Leachate criterion within range of leachate concentrations? NO
OPTION 3 NOT VALID



APPENDIX E

Soil Boring Logs

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-1**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785673.57"N** **604482.31"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604482.31 Northing 785673.57

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown SANDY SILT, dry, some Gravel	GRID-1	11:35	0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20,
2					0	
3					0	
4					0	
5					0	
6					0	
7					0	
8					0	
9					0	
10					0	
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-2**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785602.94"N** **604529.35"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604529.35 Northing 785602.94

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown fine SANDY SILT, dry, some Gravel	GRID-2	0:00	0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
					0	
					0.4	
2					0.4	
					0	
3					0	
					0	
4					0	
					0	
5					0	
					0	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-3**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785473.52"N** **604505.88"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604505.88 Northing 785473.52

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown SANDY SILT, some medium to fine Gravel, dry	GRID-3	9:20	0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
					0	
2					0.3	
					0.3	
3					0	
					0	
4					0	
					0	
5					0	
					0	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-4**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785385.52"N** **604501.03"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604501.03 Northing 785385.52

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown SANDY SILT, some medium to fine Gravel, dry	GRID-4	0:00	0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
					0	
2					1.3	
					1.3	
3					0	
					0	
4					0	
					0	
5					0	
					0	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-5**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785184.37"N** **604528.04"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604528.04 Northing 785184.37

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown SILTY SAND, some medium to find Gravel, dry	GRID-5	12:20	0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
					0	
2					0.4	
					0.4	
3					0	
					0	
4					0	
					0	
5					0	
					0	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-6**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785089.56"N** **604530.8"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604530.8 Northing 785089.56

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown SILTY SAND, some medium to fine Gravel, dry	GRID-6	12:30	0 0 2.4 0 0 0 0 0 0 0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
2						
3						
4						
5						
6					0 0 0 0 0 0 0 0 0 0 5 0 0 0 0 0 0 0 0 0

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-7**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **784986.5"N** **604536.1"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604536.1 Northing 784986.5

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown SILTY SAND, some medium to find Gravel, dry	GRID-7	12:45	0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
					0	
					0.9	
2					0	
					0	
3					0	
					0	
4					0	
					0	
5					0	
					0	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-8**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785062.68"N** **604472.45"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604472.45 Northing 785062.68

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown SILTY SAND, some medium to fine Gravel			0 0.8	
2		Brown fine SAND, some medium to fine Gravel and Silt	GRID-8A	0:00	1.1 0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
3					0 0	
4					0 0	
5					0.1	
6					0	
7					0 0	
8					0 0	
9					0 0	
10					0 5	
11					0 0	
12					0 0	
13					0 0	
14					0 0	
15					0 0	
16					0 0	
17					0 0	
18					0 0	
19					0 0	
20					0 0	
21					0 0	
22					0 0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-9**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785178.81"N** **604422.75"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604422.75 Northing 785178.81

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		Topsoil			0	
1		Brown fine SILT, some medium to fine Gravel, dry	GRID-9	11:15	0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
					1.5	
2					0.2	
					0	
3					0	
					0	
4					0	
					0	
5					0	
					0	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-10**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785283.42"N** **604425.94"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604425.94 Northing 785283.42

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		TOPSOIL			0	
1		Brown SANDY SILT, some medium to fine Gravel	GRID-10	10:40	0.5 1.5	BHex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
2		Brown CLAY			0.9 1.1	
3					1.6	
4		Brown medium to fine SAND, some Gravel			1.9 0.4	
5					0.3 0.2	
					0.4	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-26**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785798.02"N** **604012.85"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604012.85 Northing 785798.02

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown medium to fine SANDY SILT, some Gravel	GRID-26	8:50	0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
					0	
2					0	
					1.5	
3					0	
					0	
4					0	
					0	
5					0	
					0	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-11**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785350.25"N** **604415.28"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604415.28 Northing 785350.25

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown SILTY SAND, some medium to fine Gravel			0	
					0	
			GRID-11	10:15	0.1	Hex. Chrome,TCL/TAL+30
2		Brown-red SAND, some Silt and medium to fine Gravel			74.2	
					9.7	
3					1.5	
4		Concrete			0	
					0	
5		Brown SAND, some fill			0	
					0	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-12**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785428.75"N** **604516.08"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604516.08 Northing 785428.75

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		TOPSOIL			0	
1		Light brown SANDY SILT, some Gravel, dry	GRID-12A	12:55	0.5 0.1 0.2 0 0 0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
2						
3						
4		Light brown medium to fine SAND with Gravel			0 0 0	
5						
6					0 0 0 0 0 0 0 0 0 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **SB-12R**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **784947.18"N** **604516.08"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604516.08 Northing 784947.18

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown SILTY CLAY, some Sand and medium to fine Gravel, moist	SB-12R	13:40	0	VOCs
2					0	
3					0	
4					0	
5					0.1	
6					0	
7					0	
8					0	
9					0	
10					0	
11					0	
12					0	
13					0	
14					0	
15					0	
16					0	
17					0	
18					0	
19					0	
20					0	
21					0	
22					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-13**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785546.73"N** **604399.67"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604399.67 Northing 785546.73

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown fine SANDY SILT, dry	GRID-13	12:05	0.9	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
2					0	
3					0	
4					0	
5					0	
6					0	
7					0	
8					0	
9					0	
10					0	
11					5	
12					0	
13					0	
14					0	
15					0	
16					0	
17					0	
18					0	
19					0	
20					0	
21					0	
22					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-14**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785636.13"N** **604362.07"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604362.07 Northing 785636.13

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		TOPSOIL			0	
1		Light brown SANDY SILT, some Gravel	GRID-14A	11:10	0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
					0.1	
2					0.1	
					0.1	
3		Brown SAND. dry			0.1	
					0.1	
4					0.1	
					0.1	
5					0	
					0	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-15**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785723.19"N** **604381.1"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604381.1 Northing 785723.19

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown SANDY SILT, some Gravel	GRID-15	0:00	0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
					0	
2					0	
					0	
3					0	
					0	
4					0	
					0	
5					0	
					0	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-16**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785752.55"N** **604258.8"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604258.8 Northing 785752.55

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown SILT, some Clay	GRID-16	0:00	0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
					0.9	
2					0	
					0	
3					0	
					0	
4					0	
					0	
5					0	
					0	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-17**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785649.22"N** **604262.51"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604262.51 Northing 785649.22

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown SANDY SILT, some Gravel, dry	GRID-17	10:25	0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
					0	
					0.5	
2					0	
					0	
3					0	
					0	
4					0	
					0	
5					0	
					0	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-18**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785571.9"N** **604308.71"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604308.71 Northing 785571.9

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown fine SANDY SILT, some Gravel	GRID-18	12:15	0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
					0	
					0.3	
2					0	
					0	
3					0	
					0	
4					0	
					0	
5					0	
					0	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-19**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785487.62"N** **604301.29"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604301.29 Northing 785487.62

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown fine SANDY SILT, some Gravel	GRID-19	13:35	0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
					0	
					1.6	
2					0	
					0	
3					0	
					0	
4					0	
					0	
5					0	
					0	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-20**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785366.97"N** **604313.37"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604313.37 Northing 785366.97

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		TOPSOIL			0	
1		Brown-red SILTY SAND, some Gravel, dry	GRID-20	10:00	0.1	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
					2.6	
2					2	
					0.2	
3		Brown CLAY, some Silt and medium to fine Gravel			0	
					0	
4		Brown SAND, some Silt and medium to fine Gravel			0	
					0	
5					0	
					0	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-21**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785255.02"N** **604327.82"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604327.82 Northing 785255.02

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown SILTY SAND, some medium to fine Gravel, dry	GRID-21	11:00	0	Hex. Chrome,TCL/TAL+30
					0	
2					274	
					2100	
3					0	
					0	
4					0	
					0	
5					0	
					0	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-22**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785480.82"N** **604229.12"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604229.12 Northing 785480.82

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		TOPSOIL			0	
1		Light brown fine SANDY GRAVEL	GRID-22A	13:55	0.1	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
					0.2	
2					0.4	
					0.3	
3					0.3	
		Brown SAND, some Gravel			0.2	
4					0.2	
					0.2	
5					0.2	
					0.2	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-23**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785579.1"N** **604199.87"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604199.87 Northing 785579.1

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown SAND and Silt, some Gravel	GRID-23	14:05	0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
2						
3						
4						
5						
6					0.1 0 0 0 0 0 0 0 0 0 0 5 0 0 0 0 0 0 0 0 0 0

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-24**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785650.39"N** **604183.33"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604183.33 Northing 785650.39

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown medium to fine SANDY SILT, slight grey staining	GRID-24	10:00	0 0.4 0.2 0.1	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
2						
3		Light brown SILT, some Gravel			0.1 0.1 0.1 0.1 0 0	
4						
5						
6		Light brown SANDY SILT, some Gravel			0 0 0	
7		Brown medium to fine SAND			0 0 0 0 0 0 0	
8						
9						
10						
11					5 0 0 0 0 0 0

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-25**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785760.88"N** **604162.53"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604162.53 Northing 785760.88

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown medium to fine SANDY SILT	GRID-25	9:15	0 0.3 0 0 0 0 0 0 0 0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
2						
3						
4						
5						
6					0 0 0 0 0 0 0 0 0 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-26**

SHEET **1** OF **1**

PROJECT NO.: **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785798.02"N** **604012.85"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604012.85 Northing 785798.02

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown medium to fine SANDY SILT, some Gravel	GRID-26	8:50	0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
					0	
2					0	
					1.5	
3					0	
					0	
4					0	
					0	
5					0	
					0	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-27**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785729.84"N** **604136.59"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604136.59 Northing 785729.84

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
		TOPSOIL			0	
1		FILL MATERIAL, light brown Sandy Silt and Gravel	GRID-27	9:10	0.3	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
					0.3	
2					0.5	
					0.1	
3					0.1	
					0.1	
4		Brown medium to fine SAND, and Gravel			0	
					0	
5					0	
					0	
6					0	
					0	
7					0	
					0	
8					0	
					0	
9					0	
					0	
10					0	
					5	
11					0	
					0	
12					0	
					0	
13					0	
					0	
14					0	
					0	
15					0	
					0	
16					0	
					0	
17					0	
					0	
18					0	
					0	
19					0	
					0	
20					0	
					0	
21					0	
					0	
22					0	
					0	
23					0	

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
Engineering Progress

BORING LOG

BORING NO.: **GRID-28**

SHEET **1** OF **1**

PROJECT NO. **23-1429** PROJECT: **Ridgewood Grid Sampling** DATE: **6/26/2024**

PROJECT LOCATION: **Schedler Property** CLIENT: **Village of Ridgewood**

BORING LOCATION: **785634.33"N** **604136.59"E** DRILLER:

DRILLING CONTRACTOR: **EPI** LOGGED BY: **E. McNally**

DRILLING EQUIPMENT: **Geoprobe 7822 DT**

DRILLING METHOD: **Direct Push**

BOREHOLE DEPTH (ft): **5** BOREHOLE DIAMETER (in): **2**

ELEV.: DATUM:

Easting 604136.59 Northing 785634.33

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
		0	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Laboratory Tests
1		Brown medium to fine SANDY SILT	GRID-28	9:40	0 2.7 0 0 0 0 0 0 0 0	Hex. Chrome,PCBs,Pesticides,TAL Metals,TCLSVOC+20
2						
3						
4						
5						
6					0 0 0 0 0 0 0 0 0 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

APPENDIX F

Analytical Laboratory Reports

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix New World Engineering, Inc.

Ridgewood Berm Sampling, Ridgewood, NJ

23-1429 PO#2024 1801

SGS Job Number: JD91204

Sampling Date: 06/26/24

Report to:

Matrix New World Engineering, Inc.
26 Columbia Turnpike
Florham Park, NJ 07932
mfeury@mnwe.com

ATTN: Melissa Feury

Total number of pages in report: **1765**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200
Certifications: NJ(12129), NY(10983), CA, CO, CT, FL, HI, IL, IN, KY, LA (120428), MA, MD, ME, MN, NC, NH, NV, AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX (T104704234), UT, VA, WA, WV

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EHS.US.CustomerCare@sgs.com

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Sample Summary

Matrix New World Engineering, Inc.

Job No: JD91204

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429 PO#2024 1801

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies:							
Organics ND = Not detected above the MDL							
JD91204-1	06/26/24	08:50	AC	06/26/24	SO	Soil	GRID-26
JD91204-2	06/26/24	09:10	AC	06/26/24	SO	Soil	GRID-27
JD91204-3	06/26/24	09:15	AC	06/26/24	SO	Soil	GRID-25
JD91204-4	06/26/24	09:25	AC	06/26/24	SO	Soil	GRID-16
JD91204-5	06/26/24	09:40	AC	06/26/24	SO	Soil	GRID-28
JD91204-6	06/26/24	10:00	AC	06/26/24	SO	Soil	GRID-24A
JD91204-7	06/26/24	10:25	AC	06/26/24	SO	Soil	GRID-17
JD91204-8	06/26/24	11:10	AC	06/26/24	SO	Soil	GRID-14A
JD91204-9	06/26/24	11:25	AC	06/26/24	SO	Soil	GRID-15
JD91204-10	06/26/24	11:45	AC	06/26/24	SO	Soil	GRID-2
JD91204-11	06/26/24	13:35	AC	06/26/24	SO	Soil	GRID-19
JD91204-12	06/26/24	12:05	AC	06/26/24	SO	Soil	GRID-13

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Matrix New World Engineering, Inc.

Job No: JD91204

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429 PO#2024 1801

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD91204-13	06/26/24	11:35	AC	06/26/24	SO	Soil	GRID-1
JD91204-14	06/26/24	12:15	AC	06/26/24	SO	Soil	GRID-18
JD91204-15	06/26/24	12:55	AC	06/26/24	SO	Soil	GRID-12A
JD91204-16	06/26/24	13:55	AC	06/26/24	SO	Soil	GRID-22A
JD91204-17	06/26/24	14:05	AC	06/26/24	SO	Soil	GRID-23
JD91204-18	06/26/24	10:30	AC	06/26/24	AQ	Field Blank Soil	FB-1
JD91204-19	06/26/24	12:00	AC	06/26/24	AQ	Field Blank Soil	FB-2

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Matrix New World Engineering, Inc.	**Job No:**	JD91204
Site:	Ridgewood Berm Sampling, Ridgewood, NJ	**Report Date**	7/31/2024 10:35:44 A

On 06/26/2024, 17 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 2 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 3 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JD91204 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Semi-volatiles By Method SW846 8270E

Matrix: AQ **Batch ID:** OP55747

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD91204-19 for Di-n-octyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91204-18 for Di-n-octyl phthalate: Associated CCV outside of control limits high, sample was ND.

Matrix: SO **Batch ID:** OP55759

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) JD91204-1MS, JD91204-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The matrix spike (MS) recovery(s) of 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, Hexachlorocyclopentadiene are outside control limits. Probable cause due to matrix interference.
- The matrix spike duplicate (MSD) recovery(s) of 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, Hexachlorocyclopentadiene are outside control limits. Probable cause due to matrix interference.
- JD91204-1 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-1 for 2-Methylphenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-6 for 2-Chlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-9 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-9 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91204-14 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91204-11 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-1 for 2-Chlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-9 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91204-1 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-14 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91204-16 for 4-Nitrophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-16 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-16 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-14 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO **Batch ID:** OP55759

- JD91204-14 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-14 for 2-Chlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-14 for 2-Methylphenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-1 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-1 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91204-14 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-6 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-14 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91204-14 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91204-14 for Phenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-14 for Butyl benzyl phthalate: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91204-14 for 4-Nitrophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-14 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-9 for 4-Nitrophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-14 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-11 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91204-6 for Phenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-6 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91204-6 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91204-6 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91204-6 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91204-6 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91204-7 for 2-Methylphenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-9 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-11 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-11 for 4-Nitrophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-11 for Phenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-11 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91204-11 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91204-9 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91204-11 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-9 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91204-9 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91204-16 for Phenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-9 for Phenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-6 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-11 for Atrazine: Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO **Batch ID:** OP55759

- JD91204-9 for 2-Chlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-11 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91204-9 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-11 for 2-Chlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-11 for 2-Methylphenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-11 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-11 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91204-9 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91204-9 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-3 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91204-2 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91204-2 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91204-2 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-2 for 2-Methylphenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-2 for 2-Chlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-2 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-2 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91204-8 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-2 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-3 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91204-2 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91204-3 for Phenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-3 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-3 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-6 for 2-Methylphenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-3 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91204-3 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91204-3 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91204-3 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91204-3 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-2 for Phenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-2 for 4-Nitrophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-2 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-2 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-3 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-3 for 2-Chlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-3 for 2-Methylphenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-3 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO **Batch ID:** OP55759

- JD91204-3 for 4-Nitrophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-4 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-16 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91204-14 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91204-4 for 2-Methylphenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-6 for Butyl benzyl phthalate: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91204-6 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-4 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-4 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-4 for 4-Nitrophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-4 for Butyl benzyl phthalate: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91204-4 for Phenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-4 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91204-4 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91204-4 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91204-2 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91204-1 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-16 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91204-17 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91204-1 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91204-1 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91204-1 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91204-4 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91204-1 for 4-Nitrophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-1 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91204-1 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-4 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-4 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-4 for 2-Chlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-1 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91204-2 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91204-1 for Phenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-10 for Butyl benzyl phthalate: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91204-10 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-10 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91204-10 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO **Batch ID:** OP55759

- JD91204-15 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91204-10 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91204-16 for 2-Methylphenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-10 for Phenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-10 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-10 for 4-Nitrophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-10 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-10 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-16 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-16 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-12 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-5 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91204-10 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91204-12 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91204-12 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91204-12 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91204-12 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91204-12 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91204-12 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91204-10 for 2-Methylphenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-8 for 4-Nitrophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-10 for 2-Chlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-5 for Phenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-5 for 4-Nitrophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-5 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-5 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-10 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-16 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-12 for Phenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-5 for 2-Chlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-17 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91204-5 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91204-17 for 4-Nitrophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-17 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-17 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-16 for 2-Chlorophenol: Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO **Batch ID:** OP55759

- JD91204-5 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-17 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91204-5 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-5 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91204-5 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91204-15 for Phenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-6 for 4-Nitrophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-4 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91204-5 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-17 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-16 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91204-8 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-10 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91204-17 for Phenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-16 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91204-15 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-5 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91204-17 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-17 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91204-17 for 2-Chlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-17 for 2-Methylphenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-17 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-17 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91204-17 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91204-5 for 2-Methylphenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-15 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-13 for 2-Methylphenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-12 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-9 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-7 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-13 for 4-Nitrophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-16 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91204-13 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-7 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-13 for 2-Chlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-7 for 4-Nitrophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-13 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.

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Matrix: SO **Batch ID:** OP55759

- JD91204-13 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91204-13 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91204-13 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91204-13 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91204-13 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91204-13 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-7 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91204-5 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91204-12 for 2-Methylphenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-6 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-6 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-7 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-9 for 2-Methylphenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-7 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-7 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-16 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91204-7 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91204-7 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91204-7 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91204-7 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91204-7 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91204-7 for Phenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-7 for 2-Chlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-8 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91204-8 for 2-Chlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-13 for Phenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-8 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-8 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91204-8 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91204-8 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-8 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91204-11 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-8 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91204-12 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-12 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-8 for Phenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-15 for 4-Nitrophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO **Batch ID:** OP55759

- JD91204-12 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-8 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91204-15 for 2-Methylphenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-12 for 4-Nitrophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-13 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-13 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-15 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91204-8 for 2-Methylphenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-15 for 2-Chlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-8 for Pentachlorophenol: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91204-12 for 2-Chlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-15 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91204-15 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91204-15 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91204-15 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91204-15 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91204-15 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91204-13 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91204-15 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: AQ **Batch ID:** OP55744

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- OP55744-BSD for Dieldrin: Analytical precision exceeds in-house control limits.
- OP55744-BSD for 4,4'-DDD: Analytical precision exceeds in-house control limits.
- OP55744-BSD for 4,4'-DDT: Analytical precision exceeds in-house control limits.
- OP55744-BSD for beta-BHC: Analytical precision exceeds in-house control limits.
- OP55744-BSD for Endosulfan-I: Analytical precision exceeds in-house control limits.
- OP55744-BSD for 4,4'-DDE: Analytical precision exceeds in-house control limits.

Matrix: SO **Batch ID:** OP55761

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91204-1MS, JD91204-1MSD, OP55761-MSMSD were used as the QC samples indicated.
- The matrix spike (MS) recovery(s) of Endrin aldehyde, 4,4'-DDD, 4,4'-DDT, alpha-BHC, delta-BHC, gamma-BHC (Lindane) are outside control limits. Probable cause due to matrix interference.
- The RPD(s) for the MS and MSD recoveries of 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-BHC, beta-BHC, delta-BHC, Endosulfan sulfate, Endosulfan-II, gamma-BHC (Lindane) are outside control limits for sample OP55761-MSD. Probable cause due to sample homogeneity.
- Sample(s) JD91204-1, JD91204-10, JD91204-11, JD91204-12, JD91204-14, JD91204-16, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-9 have surrogates outside control limits. Probable cause due to matrix interference.
- JD91204-1: Had TBA cleanup.
- OP55761-MS: Had TBA cleanup.
- OP55761-MSD: Had TBA cleanup.
- JD91204-14: Had TBA cleanup.
- JD91204-9: Had TBA cleanup.
- OP55761-MS for 4,4'-DDD: Outside of in house control limits.
- OP55761-MS for Endrin aldehyde: Outside in house control limits due to degredation from TBA cleanup.
- JD91204-14 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91204-14 for Endrin aldehyde: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
- JD91204-14 for Heptachlor epoxide: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
- JD91204-14 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- OP55761-MSD for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91204-9 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-9 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91204-1 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- OP55761-MS for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91204-1 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91204-12 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-11 for Decachlorobiphenyl: Outside control limits due to matrix interference.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO **Batch ID:** OP55761

- JD91204-5 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-11 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JD91204-4 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-7 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JD91204-8 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-10 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-10 for Dieldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-10 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-10 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91204-11 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-12 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91204-13 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-5 for alpha-BHC: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-13 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-12 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-12 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-12 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-4 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91204-12 for 4,4'-DDD: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD91204-13 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-13 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-7 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91204-11 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-11 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-16 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-7 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JD91204-5 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-4 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-7 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91204-5 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91204-7 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-16 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JD91204-16 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91204-16 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-16 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-10 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91204-16 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-4 for 4,4'-DDD: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
- JD91204-13 for 4,4'-DDD: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO **Batch ID:** OP55761

- OP55761-BS1 for Endosulfan sulfate: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD91204-7 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-3 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-3 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-3 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-2 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- OP55761-BS1 for Endrin aldehyde: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
- OP55761-BS1 for Endosulfan-I: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD91204-6 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-16 for Dieldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-6 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JD91204-4 for Dieldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-5 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JD91204-7 for Heptachlor: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-7 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-13 for Dieldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-7 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-5 for Dieldrin: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-6 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-6 for Heptachlor: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-6 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-6 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-4 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-6 for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-4 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-5 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91204-5 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: AQ **Batch ID:** OP55745

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD91204-18 for Aroclor 1016: Associated CCV outside of control limits high, sample was ND.
- JD91204-18 for Aroclor 1260: Associated CCV outside of control limits high, sample was ND.
- JD91204-19 for Aroclor 1260: Associated CCV outside of control limits high, sample was ND.
- JD91204-19 for Aroclor 1016: Associated CCV outside of control limits high, sample was ND.

Matrix: SO **Batch ID:** OP55762

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) JD91204-2MS, JD91204-2MSD, OP55762-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91204-11 have surrogates outside control limits. Probable cause due to matrix interference.
- JD91204-12 for Aroclor 1262: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-11 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91204-13 for Aroclor 1254: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-1 for Aroclor 1260: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91204-16 for Aroclor 1262: More than 40 % RPD for detected concentrations between the two GC columns.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP47574

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91222-1MS, JD91222-1MSD, JD91222-1SDL were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Magnesium are outside control limits. Spike recovery indicates possible matrix interference.
- The matrix spike (MS) recovery(s) of Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- The serial dilution RPD(s) for Cobalt, Iron, Lead, Nickel, Potassium, Selenium, Silver, Thallium are outside control limits for sample MP47574-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO **Batch ID:** MP47572

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91204-1MS, JD91204-1MSD, JD91204-1PS, JD91204-1SDL were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Aluminum, Antimony, Manganese are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- The matrix spike duplicate (MSD) recovery(s) of Aluminum, Antimony are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- The matrix spike (MS) recovery(s) of Iron are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- The serial dilution RPD(s) for Cadmium, Potassium, Silver are outside control limits for sample MP47572-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP47572-SD1 for Chromium: Serial dilution indicates possible matrix interference.

Metals Analysis By Method SW846 7470A

Matrix: AQ **Batch ID:** MP47597

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91181-1MS, JD91181-1MSD, JD91181-1PS were used as the QC samples for the metals analysis.

Metals Analysis By Method SW846 7471B

Matrix: SO **Batch ID:** MP47595

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91204-1MS, JD91204-1MSD were used as the QC samples for the metals analysis.

General Chemistry By Method ASTM D1498-76

Matrix: AQ **Batch ID:** GN56776

- The data for ASTM D1498-76 meets quality control requirements.

General Chemistry By Method ASTM D1498-76M

Matrix: SO **Batch ID:** GN56627

- Sample(s) JD91204-1DUP were used as the QC samples for the Redox Potential Vs H2 analysis.

General Chemistry By Method EPA 335.4/LACHAT

Matrix: AQ **Batch ID:** GP54998

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD90788-1DUP, JD90788-1MS were used as the QC samples for the Cyanide analysis.
- The matrix spike (MS) recovery(s) of Cyanide are outside control limits. Spike recovery indicates possible matrix interference.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO **Batch ID:** GN56694

- Sample(s) JD91204-1DUP were used as the QC samples for the Solids, Percent analysis.

General Chemistry By Method SM4500H+ B-11

Matrix: AQ **Batch ID:** GN56756

- Sample(s) JD91204-18DUP were used as the QC samples for the pH analysis.
- The duplicate RPD(s) for pH are outside control limits for sample GN56756-D1. Probable cause due to sample homogeneity.
- JD91204-19 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.56 Deg. C
- JD91204-18 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.66 Deg. C

General Chemistry By Method SW846 3060A/7196A

Matrix: SO **Batch ID:** GP54991

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91204-1MS, JD91204-1DUP, JD91204-1MS were used as the QC samples for the Chromium, Hexavalent analysis.
- The matrix spike (MS) recovery(s) of Chromium, Hexavalent are outside control limits. Soluble XCR matrix spike recovery indicates possible matrix interference. Good post spike recovery (96__%) on this sample.
- The duplicate RPD(s) for Chromium, Hexavalent are outside control limits for sample GP54991-D1. RPD acceptable due to low duplicate and sample concentrations.

General Chemistry By Method SW846 9012B/LACHAT

Matrix: SO **Batch ID:** GP54996

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91204-1MS, JD91183-1DUP were used as the QC samples for the Cyanide analysis.
- The duplicate RPD(s) for Cyanide are outside control limits for sample GP54996-D1. RPD acceptable due to low duplicate and sample concentrations.

General Chemistry By Method SW846 9045D

Matrix: SO **Batch ID:** GN56626

- Sample(s) JD91204-1DUP were used as the QC samples for the pH analysis.
- JD91204-8 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C
- JD91204-12 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C
- JD91204-3 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.9 Deg. C
- JD91204-4 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C
- JD91204-6 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C
- JD91204-9 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C
- JD91204-10 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C
- JD91204-11 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C
- JD91204-5 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C
- JD91204-13 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C
- JD91204-14 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C
- JD91204-15 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C
- JD91204-16 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C
- JD91204-17 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C
- JD91204-7 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C
- JD91204-1 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C
- JD91204-2 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.9 Deg. C

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JD91204
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/26/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD91204-1	**GRID-26**					
Acenaphthene		0.0451	0.034	0.012	mg/kg	SW846 8270E
Acenaphthylene		0.143	0.034	0.017	mg/kg	SW846 8270E
Anthracene		0.221	0.034	0.021	mg/kg	SW846 8270E
Benzo(a)anthracene		0.746	0.034	0.0095	mg/kg	SW846 8270E
Benzo(a)pyrene		0.799	0.034	0.015	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.951	0.034	0.015	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.554	0.034	0.017	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.323	0.034	0.016	mg/kg	SW846 8270E
1,1'-Biphenyl		0.0095 J	0.067	0.0046	mg/kg	SW846 8270E
Carbazole		0.0412 J	0.067	0.0049	mg/kg	SW846 8270E
Chrysene		0.704	0.034	0.011	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.161	0.034	0.015	mg/kg	SW846 8270E
Dibenzofuran		0.0271 J	0.067	0.014	mg/kg	SW846 8270E
Di-n-butyl phthalate		0.0055 J	0.067	0.0055	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.102	0.067	0.0078	mg/kg	SW846 8270E
Fluoranthene		1.42	0.034	0.015	mg/kg	SW846 8270E
Fluorene		0.0571	0.034	0.015	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.446	0.034	0.016	mg/kg	SW846 8270E
2-Methylnaphthalene		0.0338 J	0.034	0.0076	mg/kg	SW846 8270E
Naphthalene		0.0427	0.034	0.0094	mg/kg	SW846 8270E
Phenanthrene		0.587	0.034	0.011	mg/kg	SW846 8270E
Pyrene		1.26	0.034	0.011	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		10.72 J			mg/kg	
alpha-BHC [a]		0.00016 J	0.00040	0.000046	mg/kg	SW846 8081B
delta-BHC [a]		0.00019 J	0.00040	0.000060	mg/kg	SW846 8081B
gamma-BHC (Lindane) [b]		0.00012 J	0.00040	0.000069	mg/kg	SW846 8081B
alpha-Chlordane [b]		0.0016	0.00040	0.000054	mg/kg	SW846 8081B
gamma-Chlordane [b]		0.0014	0.00040	0.000060	mg/kg	SW846 8081B
Chlordane (alpha and gamma) [a]		0.0031	0.00040	0.000054	mg/kg	SW846 8081B
Dieldrin [b]		0.00028 J	0.00040	0.000064	mg/kg	SW846 8081B
4,4'-DDD [a]		0.00094	0.00040	0.000042	mg/kg	SW846 8081B
4,4'-DDE [b]		0.00099	0.00040	0.000048	mg/kg	SW846 8081B
4,4'-DDT [a]		0.0053	0.00040	0.000069	mg/kg	SW846 8081B
Heptachlor epoxide [a]		0.00048	0.00040	0.000071	mg/kg	SW846 8081B
Aroclor 1260 [c]		0.0086 J	0.020	0.0068	mg/kg	SW846 8082A
Aluminum		5570	51		mg/kg	SW846 6010D
Arsenic		2.9	2.0		mg/kg	SW846 6010D
Barium		37.3	20		mg/kg	SW846 6010D
Beryllium		0.27	0.20		mg/kg	SW846 6010D
Calcium		2230	510		mg/kg	SW846 6010D
Chromium		8.8	1.0		mg/kg	SW846 6010D
Copper		16.2	2.5		mg/kg	SW846 6010D
Iron		11000	51		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD91204
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/26/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Lead		42.8	2.0		mg/kg	SW846 6010D
Magnesium		1650	510		mg/kg	SW846 6010D
Manganese		279	1.5		mg/kg	SW846 6010D
Mercury		0.25	0.029		mg/kg	SW846 7471B
Nickel		8.2	4.0		mg/kg	SW846 6010D
Vanadium		15.8	5.1		mg/kg	SW846 6010D
Zinc		67.9	5.1		mg/kg	SW846 6010D
Redox Potential Vs H2		315			mv	ASTM D1498-76M
pH [d]		6.68 NC			su	SW846 9045D
JD91204-2	**GRID-27**					
Total TIC, Semi-Volatile		0.19 J			mg/kg	
4,4'-DDE [c]		0.00022 J	0.00039	0.000047	mg/kg	SW846 8081B
4,4'-DDT		0.000088 J	0.00039	0.000068	mg/kg	SW846 8081B
Aluminum		9040	52		mg/kg	SW846 6010D
Arsenic		3.1	2.1		mg/kg	SW846 6010D
Barium		21.5	21		mg/kg	SW846 6010D
Beryllium		0.31	0.21		mg/kg	SW846 6010D
Chromium		9.2	1.0		mg/kg	SW846 6010D
Copper		9.4	2.6		mg/kg	SW846 6010D
Iron		13200	52		mg/kg	SW846 6010D
Lead		19.7	2.1		mg/kg	SW846 6010D
Magnesium		1760	520		mg/kg	SW846 6010D
Manganese		237	1.6		mg/kg	SW846 6010D
Nickel		9.1	4.2		mg/kg	SW846 6010D
Vanadium		13.7	5.2		mg/kg	SW846 6010D
Zinc		28.6	5.2		mg/kg	SW846 6010D
Redox Potential Vs H2		380			mv	ASTM D1498-76M
pH [e]		3.90 NC			su	SW846 9045D
JD91204-3	**GRID-25**					
Benzo(a)anthracene		0.0846	0.034	0.0097	mg/kg	SW846 8270E
Benzo(a)pyrene		0.0962	0.034	0.016	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.132	0.034	0.015	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.0711	0.034	0.017	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.0400	0.034	0.016	mg/kg	SW846 8270E
Benzaldehyde		0.0106 J	0.17	0.0085	mg/kg	SW846 8270E
Carbazole		0.0076 J	0.069	0.0050	mg/kg	SW846 8270E
Chrysene		0.0980	0.034	0.011	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.0202 J	0.034	0.015	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.0126 J	0.069	0.0080	mg/kg	SW846 8270E
Fluoranthene		0.182	0.034	0.015	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.0574	0.034	0.016	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD91204
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/26/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Phenanthrene		0.0779	0.034	0.012	mg/kg	SW846 8270E
Pyrene		0.165	0.034	0.011	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		4.81 J			mg/kg	
alpha-Chlordane [c]		0.00079	0.00041	0.000055	mg/kg	SW846 8081B
gamma-Chlordane [c]		0.00078	0.00041	0.000061	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.0016	0.00041	0.000055	mg/kg	SW846 8081B
Dieldrin		0.00048	0.00041	0.000065	mg/kg	SW846 8081B
4,4'-DDD		0.00064	0.00041	0.000043	mg/kg	SW846 8081B
4,4'-DDE		0.0067	0.00041	0.000049	mg/kg	SW846 8081B
4,4'-DDT		0.0121	0.00041	0.000071	mg/kg	SW846 8081B
Heptachlor epoxide [c]		0.00025 J	0.00041	0.000073	mg/kg	SW846 8081B
Aluminum		9550	55		mg/kg	SW846 6010D
Arsenic		9.4	2.2		mg/kg	SW846 6010D
Barium		47.3	22		mg/kg	SW846 6010D
Beryllium		0.40	0.22		mg/kg	SW846 6010D
Calcium		573	550		mg/kg	SW846 6010D
Chromium		11.9	1.1		mg/kg	SW846 6010D
Copper		13.8	2.7		mg/kg	SW846 6010D
Iron		12800	55		mg/kg	SW846 6010D
Lead		51.0	2.2		mg/kg	SW846 6010D
Magnesium		1420	550		mg/kg	SW846 6010D
Manganese		624	1.6		mg/kg	SW846 6010D
Mercury		0.14	0.031		mg/kg	SW846 7471B
Nickel		9.1	4.4		mg/kg	SW846 6010D
Vanadium		17.3	5.5		mg/kg	SW846 6010D
Zinc		42.0	5.5		mg/kg	SW846 6010D
Chromium, Hexavalent		0.46	0.43		mg/kg	SW846 3060A/7196A
Redox Potential Vs H2		407			mv	ASTM D1498-76M
pH [e]		3.89 NC			su	SW846 9045D
JD91204-4	**GRID-16**					
Acenaphthene		0.0489	0.036	0.012	mg/kg	SW846 8270E
Acenaphthylene		0.0712	0.036	0.018	mg/kg	SW846 8270E
Anthracene		0.170	0.036	0.022	mg/kg	SW846 8270E
Benzo(a)anthracene		0.751	0.036	0.010	mg/kg	SW846 8270E
Benzo(a)pyrene		0.810	0.036	0.016	mg/kg	SW846 8270E
Benzo(b)fluoranthene		1.06	0.036	0.016	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.588	0.036	0.018	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.369	0.036	0.017	mg/kg	SW846 8270E
Butyl benzyl phthalate [f]		0.0122 J	0.072	0.0088	mg/kg	SW846 8270E
1,1'-Biphenyl		0.0069 J	0.072	0.0050	mg/kg	SW846 8270E
Benzaldehyde		0.0285 J	0.18	0.0090	mg/kg	SW846 8270E
Carbazole		0.0651 J	0.072	0.0052	mg/kg	SW846 8270E
Chrysene		0.819	0.036	0.011	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD91204
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/26/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Dibenzo(a,h)anthracene		0.173	0.036	0.016	mg/kg	SW846 8270E
Dibenzofuran		0.0176 J	0.072	0.015	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.0401 J	0.072	0.0085	mg/kg	SW846 8270E
Fluoranthene		1.55	0.036	0.016	mg/kg	SW846 8270E
Fluorene		0.0428	0.036	0.017	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.473	0.036	0.017	mg/kg	SW846 8270E
2-Methylnaphthalene		0.0101 J	0.036	0.0082	mg/kg	SW846 8270E
Naphthalene		0.0182 J	0.036	0.010	mg/kg	SW846 8270E
Phenanthrene		0.612	0.036	0.012	mg/kg	SW846 8270E
Pyrene		1.36	0.036	0.012	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		15.21 J			mg/kg	
alpha-BHC		0.00014 J	0.00042	0.000048	mg/kg	SW846 8081B
alpha-Chlordane [c]		0.0105	0.00042	0.000057	mg/kg	SW846 8081B
gamma-Chlordane [c]		0.0055	0.00042	0.000063	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.0161	0.00042	0.000057	mg/kg	SW846 8081B
Dieldrin [c]		0.0013	0.00042	0.000067	mg/kg	SW846 8081B
4,4'-DDD [g]		0.0029	0.00042	0.000044	mg/kg	SW846 8081B
4,4'-DDE [c]		0.0047	0.00042	0.000050	mg/kg	SW846 8081B
4,4'-DDT		0.0101	0.00042	0.000074	mg/kg	SW846 8081B
Heptachlor epoxide [c]		0.0049	0.00042	0.000076	mg/kg	SW846 8081B
Aroclor 1262		0.0150 J	0.021	0.0018	mg/kg	SW846 8082A
Aluminum		8060	53		mg/kg	SW846 6010D
Arsenic		4.7	2.1		mg/kg	SW846 6010D
Barium		37.1	21		mg/kg	SW846 6010D
Beryllium		0.29	0.21		mg/kg	SW846 6010D
Calcium		945	530		mg/kg	SW846 6010D
Chromium		11.8	1.1		mg/kg	SW846 6010D
Copper		14.8	2.6		mg/kg	SW846 6010D
Iron		12900	53		mg/kg	SW846 6010D
Lead		58.2	2.1		mg/kg	SW846 6010D
Magnesium		1810	530		mg/kg	SW846 6010D
Manganese		352	1.6		mg/kg	SW846 6010D
Mercury		0.11	0.034		mg/kg	SW846 7471B
Nickel		9.3	4.2		mg/kg	SW846 6010D
Vanadium		19.4	5.3		mg/kg	SW846 6010D
Zinc		41.8	5.3		mg/kg	SW846 6010D
Cyanide		0.23	0.23		mg/kg	SW846 9012B/LACHAT
Redox Potential Vs H2		398			mv	ASTM D1498-76M
pH [h]		3.95 NC			su	SW846 9045D
JD91204-5	**GRID-28**					
Acenaphthene		0.0515	0.033	0.011	mg/kg	SW846 8270E
Acenaphthylene		0.150	0.033	0.017	mg/kg	SW846 8270E
Anthracene		0.224	0.033	0.020	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD91204
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/26/24

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Benzo(a)anthracene	0.773	0.033	0.0094	mg/kg	SW846 8270E
Benzo(a)pyrene	0.898	0.033	0.015	mg/kg	SW846 8270E
Benzo(b)fluoranthene	1.06	0.033	0.015	mg/kg	SW846 8270E
Benzo(g,h,i)perylene	0.639	0.033	0.017	mg/kg	SW846 8270E
Benzo(k)fluoranthene	0.360	0.033	0.016	mg/kg	SW846 8270E
1,1'-Biphenyl	0.0070 J	0.066	0.0045	mg/kg	SW846 8270E
Carbazole	0.0501 J	0.066	0.0048	mg/kg	SW846 8270E
Chrysene	0.751	0.033	0.010	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene	0.174	0.033	0.015	mg/kg	SW846 8270E
Dibenzofuran	0.0272 J	0.066	0.014	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate	0.0186 J	0.066	0.0078	mg/kg	SW846 8270E
Fluoranthene	1.55	0.033	0.015	mg/kg	SW846 8270E
Fluorene	0.0657	0.033	0.015	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene	0.507	0.033	0.016	mg/kg	SW846 8270E
2-Methylnaphthalene	0.0187 J	0.033	0.0075	mg/kg	SW846 8270E
Naphthalene	0.0306 J	0.033	0.0094	mg/kg	SW846 8270E
Phenanthrene	0.640	0.033	0.011	mg/kg	SW846 8270E
Pyrene	1.40	0.033	0.011	mg/kg	SW846 8270E
Total TIC, Semi-Volatile	8.57 J			mg/kg	
alpha-BHC [c]	0.00012 J	0.00039	0.000044	mg/kg	SW846 8081B
alpha-Chlordane [c]	0.0016	0.00039	0.000052	mg/kg	SW846 8081B
gamma-Chlordane [c]	0.0011	0.00039	0.000058	mg/kg	SW846 8081B
Chlordane (alpha and gamma)	0.0027	0.00039	0.000052	mg/kg	SW846 8081B
Dieldrin [c]	0.00053	0.00039	0.000062	mg/kg	SW846 8081B
4,4'-DDD	0.0030	0.00039	0.000041	mg/kg	SW846 8081B
4,4'-DDE [c]	0.0358	0.0039	0.00046	mg/kg	SW846 8081B
4,4'-DDT	0.0686	0.0039	0.00068	mg/kg	SW846 8081B
Heptachlor epoxide	0.00078	0.00039	0.000070	mg/kg	SW846 8081B
Aluminum	4990	53		mg/kg	SW846 6010D
Arsenic	2.1	2.1		mg/kg	SW846 6010D
Barium	25.1	21		mg/kg	SW846 6010D
Calcium	3350	530		mg/kg	SW846 6010D
Chromium	6.8	1.1		mg/kg	SW846 6010D
Copper	12.4	2.6		mg/kg	SW846 6010D
Iron	10100	53		mg/kg	SW846 6010D
Lead	13.1	2.1		mg/kg	SW846 6010D
Magnesium	1640	530		mg/kg	SW846 6010D
Manganese	248	1.6		mg/kg	SW846 6010D
Mercury	0.16	0.029		mg/kg	SW846 7471B
Nickel	7.6	4.2		mg/kg	SW846 6010D
Vanadium	14.9	5.3		mg/kg	SW846 6010D
Zinc	24.7	5.3		mg/kg	SW846 6010D
Cyanide	0.33	0.25		mg/kg	SW846 9012B/LACHAT
Redox Potential Vs H2	405			mv	ASTM D1498-76M
pH [d]	4.06 NC			su	SW846 9045D

Summary of Hits

Job Number: JD91204
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/26/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD91204-6	**GRID-24A**					
Acenaphthene		0.0131 J	0.033	0.011	mg/kg	SW846 8270E
Acenaphthylene		0.0264 J	0.033	0.017	mg/kg	SW846 8270E
Anthracene		0.0506	0.033	0.020	mg/kg	SW846 8270E
Benzo(a)anthracene		0.101	0.033	0.0094	mg/kg	SW846 8270E
Benzo(a)pyrene		0.121	0.033	0.015	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.172	0.033	0.015	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.0816	0.033	0.017	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.0513	0.033	0.015	mg/kg	SW846 8270E
Butyl benzyl phthalate [f]		0.0168 J	0.066	0.0081	mg/kg	SW846 8270E
1,1'-Biphenyl		0.0054 J	0.066	0.0045	mg/kg	SW846 8270E
Carbazole		0.0324 J	0.066	0.0048	mg/kg	SW846 8270E
Chrysene		0.107	0.033	0.010	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.0268 J	0.033	0.015	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.0150 J	0.066	0.0078	mg/kg	SW846 8270E
Fluoranthene		0.222	0.033	0.015	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.0646	0.033	0.016	mg/kg	SW846 8270E
2-Methylnaphthalene		0.0096 J	0.033	0.0075	mg/kg	SW846 8270E
Naphthalene		0.0195 J	0.033	0.0094	mg/kg	SW846 8270E
Phenanthrene		0.128	0.033	0.011	mg/kg	SW846 8270E
Pyrene		0.190	0.033	0.011	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		2.89 J			mg/kg	
alpha-Chlordane		0.00079	0.00038	0.000051	mg/kg	SW846 8081B
gamma-Chlordane [c]		0.0010	0.00038	0.000057	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.0018	0.00038	0.000051	mg/kg	SW846 8081B
Dieldrin		0.00013 J	0.00038	0.000061	mg/kg	SW846 8081B
4,4'-DDD [c]		0.000072 J	0.00038	0.000040	mg/kg	SW846 8081B
4,4'-DDE [c]		0.00015 J	0.00038	0.000046	mg/kg	SW846 8081B
4,4'-DDT [c]		0.00045	0.00038	0.000066	mg/kg	SW846 8081B
Heptachlor [c]		0.00043	0.00038	0.000049	mg/kg	SW846 8081B
Heptachlor epoxide [c]		0.00024 J	0.00038	0.000068	mg/kg	SW846 8081B
Aroclor 1262		0.0061 J	0.019	0.0016	mg/kg	SW846 8082A
Aluminum		4340	51		mg/kg	SW846 6010D
Barium		24.5	20		mg/kg	SW846 6010D
Calcium		2760	510		mg/kg	SW846 6010D
Chromium		6.2	1.0		mg/kg	SW846 6010D
Copper		15.5	2.5		mg/kg	SW846 6010D
Iron		8710	51		mg/kg	SW846 6010D
Lead		24.6	2.0		mg/kg	SW846 6010D
Magnesium		1460	510		mg/kg	SW846 6010D
Manganese		175	1.5		mg/kg	SW846 6010D
Nickel		7.2	4.1		mg/kg	SW846 6010D
Vanadium		11.3	5.1		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD91204
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/26/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Zinc		33.4	5.1		mg/kg	SW846 6010D
Redox Potential Vs H2		401			mv	ASTM D1498-76M
pH [d]		6.84 NC			su	SW846 9045D
JD91204-7	**GRID-17**					
Acenaphthene		0.0127 J	0.033	0.011	mg/kg	SW846 8270E
Acenaphthylene		0.0441	0.033	0.017	mg/kg	SW846 8270E
Anthracene		0.0473	0.033	0.020	mg/kg	SW846 8270E
Benzo(a)anthracene		0.173	0.033	0.0094	mg/kg	SW846 8270E
Benzo(a)pyrene		0.205	0.033	0.015	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.253	0.033	0.015	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.171	0.033	0.017	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.0718	0.033	0.016	mg/kg	SW846 8270E
Carbazole		0.0109 J	0.066	0.0048	mg/kg	SW846 8270E
Chrysene		0.172	0.033	0.010	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.0426	0.033	0.015	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.0092 J	0.066	0.0078	mg/kg	SW846 8270E
Fluoranthene		0.321	0.033	0.015	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.128	0.033	0.016	mg/kg	SW846 8270E
Phenanthrene		0.136	0.033	0.011	mg/kg	SW846 8270E
Pyrene		0.337	0.033	0.011	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		8.15 J			mg/kg	
alpha-Chlordane [c]		0.0143	0.00041	0.000055	mg/kg	SW846 8081B
gamma-Chlordane [c]		0.0363	0.0041	0.00061	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.0745	0.0041	0.00055	mg/kg	SW846 8081B
Dieldrin		0.00096	0.00041	0.000065	mg/kg	SW846 8081B
4,4'-DDD		0.00043	0.00041	0.000043	mg/kg	SW846 8081B
4,4'-DDE [c]		0.00055	0.00041	0.000049	mg/kg	SW846 8081B
4,4'-DDT		0.0033	0.00041	0.000071	mg/kg	SW846 8081B
Heptachlor [c]		0.00039 J	0.00041	0.000053	mg/kg	SW846 8081B
Heptachlor epoxide [c]		0.00054	0.00041	0.000073	mg/kg	SW846 8081B
Aluminum		4800	52		mg/kg	SW846 6010D
Arsenic		4.0	2.1		mg/kg	SW846 6010D
Barium		22.9	21		mg/kg	SW846 6010D
Beryllium		0.31	0.21		mg/kg	SW846 6010D
Calcium		954	520		mg/kg	SW846 6010D
Chromium		10.7	1.0		mg/kg	SW846 6010D
Copper		12.5	2.6		mg/kg	SW846 6010D
Iron		11600	52		mg/kg	SW846 6010D
Lead		20.2	2.1		mg/kg	SW846 6010D
Magnesium		1200	520		mg/kg	SW846 6010D
Manganese		180	1.6		mg/kg	SW846 6010D
Mercury		0.058	0.032		mg/kg	SW846 7471B
Nickel		5.5	4.2		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD91204
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/26/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Vanadium		17.3	5.2		mg/kg	SW846 6010D
Zinc		27.3	5.2		mg/kg	SW846 6010D
Cyanide		0.31	0.22		mg/kg	SW846 9012B/LACHAT
Redox Potential Vs H2		391			mv	ASTM D1498-76M
pH [h]		4.69 NC			su	SW846 9045D
JD91204-8	**GRID-14A**					
Total TIC, Semi-Volatile		4.33 J			mg/kg	
4,4'-DDE [c]		0.000081 J	0.00040	0.000048	mg/kg	SW846 8081B
4,4'-DDT		0.00015 J	0.00040	0.000070	mg/kg	SW846 8081B
Aluminum		8470	51		mg/kg	SW846 6010D
Arsenic		3.2	2.0		mg/kg	SW846 6010D
Beryllium		0.29	0.20		mg/kg	SW846 6010D
Chromium		8.8	1.0		mg/kg	SW846 6010D
Copper		6.9	2.5		mg/kg	SW846 6010D
Iron		12000	51		mg/kg	SW846 6010D
Lead		14.5	2.0		mg/kg	SW846 6010D
Magnesium		1560	510		mg/kg	SW846 6010D
Manganese		256	1.5		mg/kg	SW846 6010D
Mercury		0.052	0.029		mg/kg	SW846 7471B
Nickel		8.1	4.1		mg/kg	SW846 6010D
Vanadium		14.1	5.1		mg/kg	SW846 6010D
Zinc		28.1	5.1		mg/kg	SW846 6010D
Chromium, Hexavalent		0.46	0.43		mg/kg	SW846 3060A/7196A
Redox Potential Vs H2		437			mv	ASTM D1498-76M
pH [h]		3.29 NC			su	SW846 9045D
JD91204-9	**GRID-15**					
Acenaphthene		0.0523	0.037	0.013	mg/kg	SW846 8270E
Acenaphthylene		0.171	0.037	0.019	mg/kg	SW846 8270E
Acetophenone		0.0108 J	0.18	0.0079	mg/kg	SW846 8270E
Anthracene		0.248	0.037	0.022	mg/kg	SW846 8270E
Benzo(a)anthracene		0.498	0.037	0.010	mg/kg	SW846 8270E
Benzo(a)pyrene		0.493	0.037	0.017	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.597	0.037	0.016	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.323	0.037	0.018	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.210	0.037	0.017	mg/kg	SW846 8270E
1,1'-Biphenyl		0.0128 J	0.073	0.0050	mg/kg	SW846 8270E
Benzaldehyde		0.0299 J	0.18	0.0091	mg/kg	SW846 8270E
Carbazole		0.0529 J	0.073	0.0053	mg/kg	SW846 8270E
Chrysene		0.590	0.037	0.012	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.0983	0.037	0.016	mg/kg	SW846 8270E
Dibenzofuran		0.0253 J	0.073	0.015	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD91204
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/26/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Di-n-butyl phthalate		0.0096 J	0.073	0.0060	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.0338 J	0.073	0.0086	mg/kg	SW846 8270E
Fluoranthene		1.11	0.037	0.016	mg/kg	SW846 8270E
Fluorene		0.0733	0.037	0.017	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.244	0.037	0.017	mg/kg	SW846 8270E
2-Methylnaphthalene		0.0312 J	0.037	0.0083	mg/kg	SW846 8270E
Naphthalene		0.0510	0.037	0.010	mg/kg	SW846 8270E
Phenanthrene		0.730	0.037	0.012	mg/kg	SW846 8270E
Pyrene		1.11	0.037	0.012	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		18.43 J			mg/kg	
gamma-BHC (Lindane) [b]		0.00022 J	0.00044	0.000078	mg/kg	SW846 8081B
alpha-Chlordane [b]		0.0015	0.00044	0.000060	mg/kg	SW846 8081B
gamma-Chlordane [b]		0.00086	0.00044	0.000066	mg/kg	SW846 8081B
Chlordane (alpha and gamma) [a]		0.0024	0.00044	0.000060	mg/kg	SW846 8081B
Dieldrin [a]		0.00093	0.00044	0.000071	mg/kg	SW846 8081B
4,4'-DDD [a]		0.0016	0.00044	0.000047	mg/kg	SW846 8081B
4,4'-DDE [b]		0.0101	0.00044	0.000053	mg/kg	SW846 8081B
4,4'-DDT [a]		0.0174	0.00044	0.000078	mg/kg	SW846 8081B
Heptachlor epoxide [a]		0.00078	0.00044	0.000080	mg/kg	SW846 8081B
Aroclor 1262		0.0149 J	0.022	0.0018	mg/kg	SW846 8082A
Aluminum		8110	54		mg/kg	SW846 6010D
Arsenic		5.5	2.2		mg/kg	SW846 6010D
Barium		44.8	22		mg/kg	SW846 6010D
Beryllium		0.39	0.22		mg/kg	SW846 6010D
Calcium		1900	540		mg/kg	SW846 6010D
Chromium		9.5	1.1		mg/kg	SW846 6010D
Copper		21.6	2.7		mg/kg	SW846 6010D
Iron		11500	54		mg/kg	SW846 6010D
Lead		117	2.2		mg/kg	SW846 6010D
Magnesium		1440	540		mg/kg	SW846 6010D
Manganese		459	1.6		mg/kg	SW846 6010D
Mercury		0.18	0.029		mg/kg	SW846 7471B
Nickel		8.2	4.3		mg/kg	SW846 6010D
Vanadium		19.9	5.4		mg/kg	SW846 6010D
Zinc		63.2	5.4		mg/kg	SW846 6010D
Redox Potential Vs H2		408			mv	ASTM D1498-76M
pH [h]		4.75 NC			su	SW846 9045D
JD91204-10	**GRID-2**					
Acenaphthene		0.0563	0.036	0.012	mg/kg	SW846 8270E
Acenaphthylene		0.0517	0.036	0.018	mg/kg	SW846 8270E
Acetophenone		0.0088 J	0.18	0.0078	mg/kg	SW846 8270E
Anthracene		0.124	0.036	0.022	mg/kg	SW846 8270E
Benzo(a)anthracene		0.477	0.036	0.010	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD91204
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/26/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzo(a)pyrene		0.500	0.036	0.016	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.696	0.036	0.016	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.370	0.036	0.018	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.223	0.036	0.017	mg/kg	SW846 8270E
Butyl benzyl phthalate [f]		0.0158 J	0.072	0.0088	mg/kg	SW846 8270E
1,1'-Biphenyl		0.0082 J	0.072	0.0049	mg/kg	SW846 8270E
Benzaldehyde		0.0254 J	0.18	0.0090	mg/kg	SW846 8270E
Carbazole		0.0760	0.072	0.0052	mg/kg	SW846 8270E
Chrysene		0.584	0.036	0.011	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.0983	0.036	0.016	mg/kg	SW846 8270E
Dibenzofuran		0.0209 J	0.072	0.015	mg/kg	SW846 8270E
Di-n-butyl phthalate		0.0129 J	0.072	0.0059	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.0659 J	0.072	0.0084	mg/kg	SW846 8270E
Fluoranthene		1.29	0.036	0.016	mg/kg	SW846 8270E
Fluorene		0.0483	0.036	0.017	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.297	0.036	0.017	mg/kg	SW846 8270E
2-Methylnaphthalene		0.0255 J	0.036	0.0082	mg/kg	SW846 8270E
Naphthalene		0.120	0.036	0.010	mg/kg	SW846 8270E
Phenanthrene		0.693	0.036	0.012	mg/kg	SW846 8270E
Pyrene		1.09	0.036	0.012	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		24.07 J			mg/kg	
alpha-Chlordane [c]		0.0018	0.00041	0.000055	mg/kg	SW846 8081B
gamma-Chlordane		0.0012	0.00041	0.000061	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.0030	0.00041	0.000055	mg/kg	SW846 8081B
Dieldrin [c]		0.0011	0.00041	0.000065	mg/kg	SW846 8081B
4,4'-DDD		0.0083	0.00041	0.000043	mg/kg	SW846 8081B
4,4'-DDE		0.0898	0.0082	0.00098	mg/kg	SW846 8081B
4,4'-DDT		0.165	0.0082	0.0014	mg/kg	SW846 8081B
Heptachlor epoxide [c]		0.0013	0.00041	0.000074	mg/kg	SW846 8081B
Aluminum		9520	53		mg/kg	SW846 6010D
Arsenic		8.8	2.1		mg/kg	SW846 6010D
Barium		29.5	21		mg/kg	SW846 6010D
Beryllium		0.34	0.21		mg/kg	SW846 6010D
Chromium		11.8	1.1		mg/kg	SW846 6010D
Copper		17.0	2.7		mg/kg	SW846 6010D
Iron		14400	53		mg/kg	SW846 6010D
Lead		101	2.1		mg/kg	SW846 6010D
Magnesium		1550	530		mg/kg	SW846 6010D
Manganese		233	1.6		mg/kg	SW846 6010D
Mercury		0.24	0.029		mg/kg	SW846 7471B
Nickel		9.0	4.2		mg/kg	SW846 6010D
Vanadium		25.3	5.3		mg/kg	SW846 6010D
Zinc		36.4	5.3		mg/kg	SW846 6010D
Redox Potential Vs H2		416			mv	ASTM D1498-76M
pH [h]		3.62 NC			su	SW846 9045D

Summary of Hits

Job Number: JD91204
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/26/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD91204-11	**GRID-19**					
Acenaphthene		0.0265 J	0.035	0.012	mg/kg	SW846 8270E
Acenaphthylene		0.0454	0.035	0.018	mg/kg	SW846 8270E
Anthracene		0.0843	0.035	0.021	mg/kg	SW846 8270E
Benzo(a)anthracene		0.292	0.035	0.0098	mg/kg	SW846 8270E
Benzo(a)pyrene		0.321	0.035	0.016	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.393	0.035	0.015	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.221	0.035	0.017	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.120	0.035	0.016	mg/kg	SW846 8270E
Carbazole		0.0214 J	0.069	0.0050	mg/kg	SW846 8270E
Chrysene		0.284	0.035	0.011	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.0622	0.035	0.015	mg/kg	SW846 8270E
Fluoranthene		0.582	0.035	0.015	mg/kg	SW846 8270E
Fluorene		0.0270 J	0.035	0.016	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.174	0.035	0.016	mg/kg	SW846 8270E
Phenanthrene		0.268	0.035	0.012	mg/kg	SW846 8270E
Pyrene		0.553	0.035	0.011	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		2.97 J			mg/kg	
alpha-Chlordane [c]		0.0052	0.00039	0.000053	mg/kg	SW846 8081B
gamma-Chlordane [c]		0.0026	0.00039	0.000059	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.0078	0.00039	0.000053	mg/kg	SW846 8081B
Dieldrin		0.0012	0.00039	0.000063	mg/kg	SW846 8081B
4,4'-DDD		0.00098	0.00039	0.000041	mg/kg	SW846 8081B
4,4'-DDE		0.0053	0.00039	0.000047	mg/kg	SW846 8081B
4,4'-DDT		0.0063	0.00039	0.000069	mg/kg	SW846 8081B
Heptachlor epoxide [c]		0.00060	0.00039	0.000071	mg/kg	SW846 8081B
Aroclor 1262		0.0117 J	0.020	0.0016	mg/kg	SW846 8082A
Aluminum		5610	50		mg/kg	SW846 6010D
Arsenic		3.7	2.0		mg/kg	SW846 6010D
Barium		34.8	20		mg/kg	SW846 6010D
Beryllium		0.23	0.20		mg/kg	SW846 6010D
Calcium		1810	500		mg/kg	SW846 6010D
Chromium		9.6	1.0		mg/kg	SW846 6010D
Copper		16.0	2.5		mg/kg	SW846 6010D
Iron		10500	50		mg/kg	SW846 6010D
Lead		44.8	2.0		mg/kg	SW846 6010D
Magnesium		1750	500		mg/kg	SW846 6010D
Manganese		223	1.5		mg/kg	SW846 6010D
Mercury		0.071	0.032		mg/kg	SW846 7471B
Nickel		7.6	4.0		mg/kg	SW846 6010D
Vanadium		15.0	5.0		mg/kg	SW846 6010D
Zinc		47.0	5.0		mg/kg	SW846 6010D
Cyanide		0.26	0.23		mg/kg	SW846 9012B/LACHAT

Summary of Hits

Job Number: JD91204
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/26/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Redox Potential Vs H2		361			mv	ASTM D1498-76M
pH [h]		5.77 NC			su	SW846 9045D
JD91204-12	**GRID-13**					
Acenaphthylene		0.0245 J	0.035	0.018	mg/kg	SW846 8270E
Anthracene		0.0333 J	0.035	0.021	mg/kg	SW846 8270E
Benzo(a)anthracene		0.168	0.035	0.0098	mg/kg	SW846 8270E
Benzo(a)pyrene		0.177	0.035	0.016	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.231	0.035	0.015	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.127	0.035	0.017	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.0638	0.035	0.016	mg/kg	SW846 8270E
Carbazole		0.0108 J	0.069	0.0050	mg/kg	SW846 8270E
Chrysene		0.159	0.035	0.011	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.0310 J	0.035	0.015	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.0136 J	0.069	0.0081	mg/kg	SW846 8270E
Fluoranthene		0.317	0.035	0.015	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.102	0.035	0.016	mg/kg	SW846 8270E
Phenanthrene		0.128	0.035	0.012	mg/kg	SW846 8270E
Pyrene		0.310	0.035	0.011	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		5.13 J			mg/kg	
alpha-Chlordane [c]		0.0016	0.00040	0.000054	mg/kg	SW846 8081B
gamma-Chlordane [c]		0.00059	0.00040	0.000060	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.0021	0.00040	0.000054	mg/kg	SW846 8081B
Dieldrin		0.00071	0.00040	0.000064	mg/kg	SW846 8081B
4,4'-DDD [i]		0.00037 J	0.00040	0.000042	mg/kg	SW846 8081B
4,4'-DDE [c]		0.00097	0.00040	0.000048	mg/kg	SW846 8081B
4,4'-DDT		0.0027	0.00040	0.000070	mg/kg	SW846 8081B
Heptachlor epoxide [c]		0.00050	0.00040	0.000072	mg/kg	SW846 8081B
Aroclor 1262 [c]		0.0066 J	0.020	0.0017	mg/kg	SW846 8082A
Aluminum		7460	54		mg/kg	SW846 6010D
Arsenic		7.1	2.2		mg/kg	SW846 6010D
Barium		31.3	22		mg/kg	SW846 6010D
Beryllium		0.27	0.22		mg/kg	SW846 6010D
Calcium		1040	540		mg/kg	SW846 6010D
Chromium		8.9	1.1		mg/kg	SW846 6010D
Copper		13.5	2.7		mg/kg	SW846 6010D
Iron		11500	54		mg/kg	SW846 6010D
Lead		57.6	2.2		mg/kg	SW846 6010D
Magnesium		1470	540		mg/kg	SW846 6010D
Manganese		350	1.6		mg/kg	SW846 6010D
Mercury		0.15	0.034		mg/kg	SW846 7471B
Nickel		8.2	4.3		mg/kg	SW846 6010D
Vanadium		20.2	5.4		mg/kg	SW846 6010D
Zinc		31.6	5.4		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD91204
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/26/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Cyanide		0.26	0.25		mg/kg	SW846 9012B/LACHAT
Redox Potential Vs H2		376			mv	ASTM D1498-76M
pH [h]		4.38 NC			su	SW846 9045D
JD91204-13	**GRID-1**					
Benzo(a)anthracene		0.0622	0.037	0.011	mg/kg	SW846 8270E
Benzo(a)pyrene		0.0646	0.037	0.017	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.104	0.037	0.017	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.0477	0.037	0.019	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.0298 J	0.037	0.017	mg/kg	SW846 8270E
Benzaldehyde		0.0145 J	0.19	0.0093	mg/kg	SW846 8270E
Carbazole		0.0090 J	0.075	0.0054	mg/kg	SW846 8270E
Chrysene		0.0813	0.037	0.012	mg/kg	SW846 8270E
Di-n-butyl phthalate		0.0066 J	0.075	0.0061	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.0252 J	0.075	0.0087	mg/kg	SW846 8270E
Fluoranthene		0.176	0.037	0.017	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.0384	0.037	0.018	mg/kg	SW846 8270E
Phenanthrene		0.0924	0.037	0.013	mg/kg	SW846 8270E
Pyrene		0.152	0.037	0.012	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		10.92 J			mg/kg	
alpha-Chlordane [c]		0.00015 J	0.00044	0.000059	mg/kg	SW846 8081B
gamma-Chlordane [c]		0.000091 J	0.00044	0.000065	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.00025 J	0.00044	0.000059	mg/kg	SW846 8081B
Dieldrin [c]		0.00017 J	0.00044	0.000070	mg/kg	SW846 8081B
4,4'-DDD [g]		0.00024 J	0.00044	0.000046	mg/kg	SW846 8081B
4,4'-DDE [c]		0.00067	0.00044	0.000052	mg/kg	SW846 8081B
4,4'-DDT		0.0016	0.00044	0.000076	mg/kg	SW846 8081B
Heptachlor epoxide [c]		0.00014 J	0.00044	0.000078	mg/kg	SW846 8081B
Aroclor 1254 [c]		0.0039 J	0.022	0.0023	mg/kg	SW846 8082A
Aluminum		14200	55		mg/kg	SW846 6010D
Arsenic		6.2	2.2		mg/kg	SW846 6010D
Barium		46.0	22		mg/kg	SW846 6010D
Beryllium		0.58	0.22		mg/kg	SW846 6010D
Chromium		13.8	1.1		mg/kg	SW846 6010D
Cobalt		6.1	5.5		mg/kg	SW846 6010D
Copper		12.7	5.5		mg/kg	SW846 6010D
Iron		26200	110		mg/kg	SW846 6010D
Lead		49.6	2.2		mg/kg	SW846 6010D
Magnesium		1860	550		mg/kg	SW846 6010D
Manganese		756	1.7		mg/kg	SW846 6010D
Mercury		0.18	0.035		mg/kg	SW846 7471B
Nickel		11.3	4.4		mg/kg	SW846 6010D
Vanadium		24.3	5.5		mg/kg	SW846 6010D
Zinc		45.3	5.5		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD91204
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/26/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Redox Potential Vs H2		412			mv	ASTM D1498-76M
pH [h]		3.08 NC			su	SW846 9045D
JD91204-14	**GRID-18**					
Acenaphthene		0.466	0.033	0.012	mg/kg	SW846 8270E
Acenaphthylene		0.113	0.033	0.017	mg/kg	SW846 8270E
Acetophenone		0.0093 J	0.17	0.0072	mg/kg	SW846 8270E
Anthracene		0.868	0.033	0.020	mg/kg	SW846 8270E
Benzo(a)anthracene		2.37	0.033	0.0094	mg/kg	SW846 8270E
Benzo(a)pyrene		2.41	0.033	0.015	mg/kg	SW846 8270E
Benzo(b)fluoranthene		2.74	0.033	0.015	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		1.75	0.033	0.017	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.885	0.033	0.016	mg/kg	SW846 8270E
Butyl benzyl phthalate [f]		0.0279 J	0.067	0.0081	mg/kg	SW846 8270E
1,1'-Biphenyl		0.0422 J	0.067	0.0046	mg/kg	SW846 8270E
Benzaldehyde		0.0226 J	0.17	0.0083	mg/kg	SW846 8270E
Carbazole		0.519	0.067	0.0048	mg/kg	SW846 8270E
Chrysene		2.17	0.033	0.011	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.455	0.033	0.015	mg/kg	SW846 8270E
Dibenzofuran		0.230	0.067	0.014	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.0450 J	0.067	0.0078	mg/kg	SW846 8270E
Fluoranthene		5.18	0.17	0.074	mg/kg	SW846 8270E
Fluorene		0.455	0.033	0.015	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		1.35	0.033	0.016	mg/kg	SW846 8270E
2-Methylnaphthalene		0.133	0.033	0.0075	mg/kg	SW846 8270E
Naphthalene		0.147	0.033	0.0094	mg/kg	SW846 8270E
Phenanthrene		3.03	0.033	0.011	mg/kg	SW846 8270E
Pyrene		4.05	0.17	0.053	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		17.84 J			mg/kg	
gamma-BHC (Lindane) [b]		0.000076 J	0.00040	0.000070	mg/kg	SW846 8081B
alpha-Chlordane [b]		0.0027	0.00040	0.000054	mg/kg	SW846 8081B
gamma-Chlordane [a]		0.0033	0.00040	0.000060	mg/kg	SW846 8081B
Chlordane (alpha and gamma) [a]		0.0060	0.00040	0.000054	mg/kg	SW846 8081B
Dieldrin [b]		0.0023	0.00040	0.000064	mg/kg	SW846 8081B
4,4'-DDD [a]		0.0018	0.00040	0.000042	mg/kg	SW846 8081B
4,4'-DDE [b]		0.0018	0.00040	0.000048	mg/kg	SW846 8081B
4,4'-DDT [a]		0.0068	0.00040	0.000070	mg/kg	SW846 8081B
Endrin aldehyde [j]		0.0019	0.00040	0.00012	mg/kg	SW846 8081B
Heptachlor epoxide [k]		0.0021	0.00040	0.000072	mg/kg	SW846 8081B
Aroclor 1254		0.0967	0.020	0.0022	mg/kg	SW846 8082A
Aroclor 1260		0.0248	0.020	0.0069	mg/kg	SW846 8082A
Aluminum		6570	50		mg/kg	SW846 6010D
Arsenic		3.7	2.0		mg/kg	SW846 6010D
Barium		34.4	20		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD91204
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/26/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Beryllium		0.23	0.20		mg/kg	SW846 6010D
Calcium		1350	500		mg/kg	SW846 6010D
Chromium		8.3	0.99		mg/kg	SW846 6010D
Cobalt		5.2	5.0		mg/kg	SW846 6010D
Copper		14.5	2.5		mg/kg	SW846 6010D
Iron		12500	50		mg/kg	SW846 6010D
Lead		23.7	2.0		mg/kg	SW846 6010D
Magnesium		2280	500		mg/kg	SW846 6010D
Manganese		239	1.5		mg/kg	SW846 6010D
Nickel		9.6	4.0		mg/kg	SW846 6010D
Vanadium		18.6	5.0		mg/kg	SW846 6010D
Zinc		34.2	5.0		mg/kg	SW846 6010D
Redox Potential Vs H2		362			mv	ASTM D1498-76M
pH [h]		5.08 NC			su	SW846 9045D
JD91204-15	**GRID-12A**					
Total TIC, Semi-Volatile		1.86 J			mg/kg	
Aluminum		9670	50		mg/kg	SW846 6010D
Arsenic		3.2	2.0		mg/kg	SW846 6010D
Barium		36.2	20		mg/kg	SW846 6010D
Beryllium		0.36	0.20		mg/kg	SW846 6010D
Chromium		9.1	1.0		mg/kg	SW846 6010D
Copper		7.1	2.5		mg/kg	SW846 6010D
Iron		14000	50		mg/kg	SW846 6010D
Lead		26.5	2.0		mg/kg	SW846 6010D
Magnesium		1460	500		mg/kg	SW846 6010D
Manganese		338	1.5		mg/kg	SW846 6010D
Mercury		0.076	0.035		mg/kg	SW846 7471B
Nickel		8.2	4.0		mg/kg	SW846 6010D
Vanadium		15.6	5.0		mg/kg	SW846 6010D
Zinc		40.7	5.0		mg/kg	SW846 6010D
Chromium, Hexavalent		0.50	0.42		mg/kg	SW846 3060A/7196A
Redox Potential Vs H2		389			mv	ASTM D1498-76M
pH [h]		3.48 NC			su	SW846 9045D
JD91204-16	**GRID-22A**					
Acenaphthene		0.0227 J	0.035	0.012	mg/kg	SW846 8270E
Acenaphthylene		0.0626	0.035	0.018	mg/kg	SW846 8270E
Anthracene		0.0933	0.035	0.022	mg/kg	SW846 8270E
Benzo(a)anthracene		0.377	0.035	0.010	mg/kg	SW846 8270E
Benzo(a)pyrene		0.414	0.035	0.016	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.524	0.035	0.016	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.290	0.035	0.018	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD91204
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/26/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzo(k)fluoranthene		0.142	0.035	0.016	mg/kg	SW846 8270E
Carbazole		0.0143 J	0.071	0.0051	mg/kg	SW846 8270E
Chrysene		0.353	0.035	0.011	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene		0.0799	0.035	0.016	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.0121 J	0.071	0.0083	mg/kg	SW846 8270E
Fluoranthene		0.760	0.035	0.016	mg/kg	SW846 8270E
Fluorene		0.0264 J	0.035	0.016	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		0.240	0.035	0.017	mg/kg	SW846 8270E
Phenanthrene		0.277	0.035	0.012	mg/kg	SW846 8270E
Pyrene		0.701	0.035	0.011	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		4.81 J			mg/kg	
alpha-Chlordane [c]		0.00089	0.00040	0.000054	mg/kg	SW846 8081B
gamma-Chlordane [c]		0.0012	0.00040	0.000060	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.0021	0.00040	0.000054	mg/kg	SW846 8081B
Dieldrin [c]		0.00014 J	0.00040	0.000064	mg/kg	SW846 8081B
4,4'-DDD		0.00049	0.00040	0.000042	mg/kg	SW846 8081B
4,4'-DDE [c]		0.0011	0.00040	0.000048	mg/kg	SW846 8081B
4,4'-DDT		0.0013	0.00040	0.000069	mg/kg	SW846 8081B
Heptachlor epoxide [c]		0.00022 J	0.00040	0.000071	mg/kg	SW846 8081B
Aroclor 1254		0.0072 J	0.020	0.0021	mg/kg	SW846 8082A
Aroclor 1262 [c]		0.0031 J	0.020	0.0017	mg/kg	SW846 8082A
Aluminum		6580	53		mg/kg	SW846 6010D
Arsenic		2.6	2.1		mg/kg	SW846 6010D
Barium		28.9	21		mg/kg	SW846 6010D
Beryllium		0.23	0.21		mg/kg	SW846 6010D
Calcium		1400	530		mg/kg	SW846 6010D
Chromium		8.2	1.1		mg/kg	SW846 6010D
Copper		8.9	2.6		mg/kg	SW846 6010D
Iron		10600	53		mg/kg	SW846 6010D
Lead		23.0	2.1		mg/kg	SW846 6010D
Magnesium		1420	530		mg/kg	SW846 6010D
Manganese		231	1.6		mg/kg	SW846 6010D
Mercury		0.069	0.029		mg/kg	SW846 7471B
Nickel		7.7	4.2		mg/kg	SW846 6010D
Vanadium		13.5	5.3		mg/kg	SW846 6010D
Zinc		31.3	5.3		mg/kg	SW846 6010D
Redox Potential Vs H2		377			mv	ASTM D1498-76M
pH [h]		5.07 NC			su	SW846 9045D
JD91204-17	**GRID-23**					
Total TIC, Semi-Volatile		6.63 J			mg/kg	
Aluminum		12800	52		mg/kg	SW846 6010D
Arsenic		4.0	2.1		mg/kg	SW846 6010D
Barium		54.6	21		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD91204
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/26/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Beryllium		0.44	0.21		mg/kg	SW846 6010D
Chromium		12.4	1.0		mg/kg	SW846 6010D
Copper		5.6	2.6		mg/kg	SW846 6010D
Iron		16200	52		mg/kg	SW846 6010D
Lead		10.5	2.1		mg/kg	SW846 6010D
Magnesium		1670	520		mg/kg	SW846 6010D
Manganese		280	1.6		mg/kg	SW846 6010D
Mercury		0.033	0.028		mg/kg	SW846 7471B
Nickel		9.3	4.1		mg/kg	SW846 6010D
Vanadium		20.6	5.2		mg/kg	SW846 6010D
Zinc		31.0	5.2		mg/kg	SW846 6010D
Redox Potential Vs H2		401			mv	ASTM D1498-76M
pH [h]		3.32 NC			su	SW846 9045D
JD91204-18	**FB-1**					
Redox Potential Vs H2		412			mv	ASTM D1498-76
pH [l]		6.84			su	SM4500H+ B-11
JD91204-19	**FB-2**					
Redox Potential Vs H2		413			mv	ASTM D1498-76
pH [m]		6.66			su	SM4500H+ B-11

(a) Had TBA cleanup.
(b) Had TBA cleanup. More than 40 % RPD for detected concentrations between the two GC columns.
(c) More than 40 % RPD for detected concentrations between the two GC columns.
(d) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C
(e) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.9 Deg. C
(f) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
(g) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
(h) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C
(i) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
(j) Had TBA cleanup. Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
(k) Had TBA cleanup. Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
(l) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.66 Deg. C
(m) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.56 Deg. C

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-26		
Lab Sample ID:	JD91204-1	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	96.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ8012.D	1	07/01/24 20:34	KM	06/30/24 17:15	OP55759	ECJ348
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol [a]	ND	0.067	0.017	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.17	0.021	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.17	0.029	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.17	0.060	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.17	0.13	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.17	0.036	mg/kg	
95-48-7	2-Methylphenol [a]	ND	0.067	0.021	mg/kg	
	3&4-Methylphenol	ND	0.067	0.028	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.17	0.022	mg/kg	
100-02-7	4-Nitrophenol [b]	ND	0.34	0.089	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.13	0.031	mg/kg	
108-95-2	Phenol [a]	ND	0.067	0.017	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.17	0.022	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.17	0.025	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.17	0.020	mg/kg	
83-32-9	Acenaphthene	0.0451	0.034	0.012	mg/kg	
208-96-8	Acenaphthylene	0.143	0.034	0.017	mg/kg	
98-86-2	Acetophenone	ND	0.17	0.0072	mg/kg	
120-12-7	Anthracene	0.221	0.034	0.021	mg/kg	
1912-24-9	Atrazine [a]	ND	0.067	0.014	mg/kg	
56-55-3	Benzo(a)anthracene	0.746	0.034	0.0095	mg/kg	
50-32-8	Benzo(a)pyrene	0.799	0.034	0.015	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.951	0.034	0.015	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.554	0.034	0.017	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.323	0.034	0.016	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.067	0.013	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.067	0.0082	mg/kg	
92-52-4	1,1'-Biphenyl	0.0095	0.067	0.0046	mg/kg	J
100-52-7	Benzaldehyde	ND	0.17	0.0083	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.067	0.0080	mg/kg	
106-47-8	4-Chloroaniline	ND	0.17	0.012	mg/kg	
86-74-8	Carbazole	0.0412	0.067	0.0049	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-26		
Lab Sample ID:	JD91204-1	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	96.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.067	0.013	mg/kg	
218-01-9	Chrysene	0.704	0.034	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.067	0.0072	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.067	0.014	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.067	0.012	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.067	0.011	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.034	0.010	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.034	0.017	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.067	0.028	mg/kg	
123-91-1	1,4-Dioxane	ND	0.034	0.022	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.161	0.034	0.015	mg/kg	
132-64-9	Dibenzofuran	0.0271	0.067	0.014	mg/kg	J
84-74-2	Di-n-butyl phthalate	0.0055	0.067	0.0055	mg/kg	J
117-84-0	Di-n-octyl phthalate	ND	0.067	0.0083	mg/kg	
84-66-2	Diethyl phthalate	ND	0.067	0.0071	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.067	0.0060	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.102	0.067	0.0078	mg/kg	
206-44-0	Fluoranthene	1.42	0.034	0.015	mg/kg	
86-73-7	Fluorene	0.0571	0.034	0.015	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.067	0.0085	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.034	0.013	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.34	0.013	mg/kg	
67-72-1	Hexachloroethane	ND	0.17	0.017	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.446	0.034	0.016	mg/kg	
78-59-1	Isophorone	ND	0.067	0.0072	mg/kg	
91-57-6	2-Methylnaphthalene	0.0338	0.034	0.0076	mg/kg	J
88-74-4	2-Nitroaniline	ND	0.17	0.0079	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.17	0.0084	mg/kg	
100-01-6	4-Nitroaniline	ND	0.17	0.0087	mg/kg	
91-20-3	Naphthalene	0.0427	0.034	0.0094	mg/kg	
98-95-3	Nitrobenzene	ND	0.067	0.013	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.067	0.0097	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.17	0.012	mg/kg	
85-01-8	Phenanthrene	0.587	0.034	0.011	mg/kg	
129-00-0	Pyrene	1.26	0.034	0.011	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.17	0.0085	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-26		
Lab Sample ID:	JD91204-1	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	96.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	58%		10-96%
118-79-6	2,4,6-Tribromophenol	55%		10-123%
4165-60-0	Nitrobenzene-d5	59%		10-109%
321-60-8	2-Fluorobiphenyl	66%		11-109%
1718-51-0	Terphenyl-d14	68%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.54	.32	mg/kg	J
	Unknown	4.57	.27	mg/kg	J
	Unknown alcohol	10.53	.39	mg/kg	J
	Unknown PAH substance	11.05	.41	mg/kg	J
	Alkane	11.08	.36	mg/kg	J
	Unknown alcohol	11.13	.6	mg/kg	J
	Unknown PAH substance	11.19	.58	mg/kg	J
	Unknown	11.39	.47	mg/kg	J
	Unknown	11.42	.25	mg/kg	J
	Unknown	11.46	.39	mg/kg	J
	Unknown	11.52	.62	mg/kg	J
	Unknown	11.59	.38	mg/kg	J
	Alkane	11.68	.69	mg/kg	J
	Unknown	11.75	.47	mg/kg	J
59-02-9	Vitamin E	11.85	.33	mg/kg	JN
	Unknown alcohol	12.22	.66	mg/kg	J
	Unknown PAH substance	12.44	.31	mg/kg	J
	Unknown alcohol	12.54	.34	mg/kg	J
	Sitosterol	12.71	.57	mg/kg	J
	Unknown PAH substance	12.79	.37	mg/kg	J
	Unknown	13.02	.29	mg/kg	J
	Unknown	13.15	.28	mg/kg	J
	Unknown	13.20	.36	mg/kg	J
	Unknown	13.35	.32	mg/kg	J
	Dibenzopyrene	14.14	.69	mg/kg	J
	Total TIC, Semi-Volatile		10.72	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-26		
Lab Sample ID:	JD91204-1	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	96.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5G138914.D	1	07/02/24 09:59	CP	06/29/24 14:50	OP55761	G5G3661
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00040	0.000077	mg/kg	
319-84-6	alpha-BHC	0.00016	0.00040	0.000046	mg/kg	J
319-85-7	beta-BHC	ND	0.00040	0.000058	mg/kg	
319-86-8	delta-BHC	0.00019	0.00040	0.000060	mg/kg	J
58-89-9	gamma-BHC (Lindane) [b]	0.00012	0.00040	0.000069	mg/kg	J
5103-71-9	alpha-Chlordane [b]	0.0016	0.00040	0.000054	mg/kg	
5103-74-2	gamma-Chlordane [b]	0.0014	0.00040	0.000060	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0031	0.00040	0.000054	mg/kg	
60-57-1	Dieldrin [b]	0.00028	0.00040	0.000064	mg/kg	J
72-54-8	4,4'-DDD	0.00094	0.00040	0.000042	mg/kg	
72-55-9	4,4'-DDE [b]	0.00099	0.00040	0.000048	mg/kg	
50-29-3	4,4'-DDT	0.0053	0.00040	0.000069	mg/kg	
72-20-8	Endrin	ND	0.00040	0.000058	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00040	0.000048	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00040	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00040	0.000054	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00040	0.000056	mg/kg	
76-44-8	Heptachlor	ND	0.00040	0.000052	mg/kg	
1024-57-3	Heptachlor epoxide	0.00048	0.00040	0.000071	mg/kg	
72-43-5	Methoxychlor	ND	0.00040	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00040	0.000064	mg/kg	
8001-35-2	Toxaphene	ND	0.0050	0.0033	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	59%		46-145%
877-09-8	Tetrachloro-m-xylene	54%		46-145%
2051-24-3	Decachlorobiphenyl	443% [c]		29-163%
2051-24-3	Decachlorobiphenyl	66%		29-163%

(a) Had TBA cleanup.
(b) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-26		
Lab Sample ID:	JD91204-1	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	96.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-26		
Lab Sample ID:	JD91204-1	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	96.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL17976.D	1	07/01/24 03:11	CP	06/29/24 14:50	OP55762	GRL399
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.020	0.0084	mg/kg	
11104-28-2	Aroclor 1221	ND	0.020	0.0067	mg/kg	
11141-16-5	Aroclor 1232	ND	0.020	0.016	mg/kg	
53469-21-9	Aroclor 1242	ND	0.020	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.020	0.0043	mg/kg	
11097-69-1	Aroclor 1254	ND	0.020	0.0021	mg/kg	
11096-82-5	Aroclor 1260 [a]	0.0086	0.020	0.0068	mg/kg	J
11100-14-4	Aroclor 1268	ND	0.020	0.0020	mg/kg	
37324-23-5	Aroclor 1262	ND	0.020	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		42-159%
877-09-8	Tetrachloro-m-xylene	99%		42-159%
2051-24-3	Decachlorobiphenyl	79%		18-154%
2051-24-3	Decachlorobiphenyl	93%		18-154%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-26
Lab Sample ID: JD91204-1
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/26/24
Date Received: 06/26/24
Percent Solids: 96.9

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5570	51	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.0	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	2.9	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	37.3	20	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.27	0.20	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.51	0.51	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	2230	510	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	8.8	1.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.1	5.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	16.2	2.5	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	11000	51	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	42.8	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1650	510	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	279	1.5	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.25	0.029	mg/kg	1	06/28/24	07/01/24	MK	SW846 7471B [1]	SW846 7471B [4]
Nickel	8.2	4.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1000	1000	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.0	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.51	0.51	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1000	1000	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	15.8	5.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	67.9	5.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56369
(2) Instrument QC Batch: MA56387
(3) Prep QC Batch: MP47572
(4) Prep QC Batch: MP47595

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-26		
Lab Sample ID:	JD91204-1	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	96.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.40	0.40	mg/kg	1	07/01/24 17:03	RI	SW846 3060A/7196A
Cyanide	< 0.25	0.25	mg/kg	1	06/28/24 17:55	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	315		mv	1	06/28/24 14:09	MM	ASTM D1498-76M
Solids, Percent	96.9		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	6.68 NC		su	1	06/28/24 13:47	MM	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-27		
Lab Sample ID:	JD91204-2	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	97.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ7994.D	1	07/01/24 14:57	KM	06/30/24 17:15	OP55759	ECJ348
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol [a]	ND	0.068	0.017	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.17	0.021	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.17	0.029	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.17	0.060	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.17	0.13	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.17	0.036	mg/kg	
95-48-7	2-Methylphenol [a]	ND	0.068	0.022	mg/kg	
	3&4-Methylphenol	ND	0.068	0.028	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.17	0.022	mg/kg	
100-02-7	4-Nitrophenol [b]	ND	0.34	0.091	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.14	0.032	mg/kg	
108-95-2	Phenol [a]	ND	0.068	0.018	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.17	0.022	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.17	0.025	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.17	0.020	mg/kg	
83-32-9	Acenaphthene	ND	0.034	0.012	mg/kg	
208-96-8	Acenaphthylene	ND	0.034	0.017	mg/kg	
98-86-2	Acetophenone	ND	0.17	0.0073	mg/kg	
120-12-7	Anthracene	ND	0.034	0.021	mg/kg	
1912-24-9	Atrazine [a]	ND	0.068	0.015	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.034	0.0096	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.034	0.015	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.034	0.015	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.034	0.017	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.034	0.016	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.068	0.013	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.068	0.0083	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.068	0.0047	mg/kg	
100-52-7	Benzaldehyde	ND	0.17	0.0084	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.068	0.0081	mg/kg	
106-47-8	4-Chloroaniline	ND	0.17	0.012	mg/kg	
86-74-8	Carbazole	ND	0.068	0.0049	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-27		
Lab Sample ID:	JD91204-2	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	97.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.068	0.013	mg/kg	
218-01-9	Chrysene	ND	0.034	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.068	0.0073	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.068	0.015	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.068	0.012	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.068	0.011	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.034	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.034	0.017	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.068	0.028	mg/kg	
123-91-1	1,4-Dioxane	ND	0.034	0.022	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.034	0.015	mg/kg	
132-64-9	Dibenzofuran	ND	0.068	0.014	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.068	0.0055	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.068	0.0085	mg/kg	
84-66-2	Diethyl phthalate	ND	0.068	0.0072	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.068	0.0060	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.068	0.0079	mg/kg	
206-44-0	Fluoranthene	ND	0.034	0.015	mg/kg	
86-73-7	Fluorene	ND	0.034	0.016	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.068	0.0086	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.034	0.014	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.34	0.014	mg/kg	
67-72-1	Hexachloroethane	ND	0.17	0.017	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.034	0.016	mg/kg	
78-59-1	Isophorone	ND	0.068	0.0073	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.034	0.0077	mg/kg	
88-74-4	2-Nitroaniline	ND	0.17	0.0080	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.17	0.0085	mg/kg	
100-01-6	4-Nitroaniline	ND	0.17	0.0088	mg/kg	
91-20-3	Naphthalene	ND	0.034	0.0096	mg/kg	
98-95-3	Nitrobenzene	ND	0.068	0.013	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.068	0.0098	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.17	0.012	mg/kg	
85-01-8	Phenanthrene	ND	0.034	0.011	mg/kg	
129-00-0	Pyrene	ND	0.034	0.011	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.17	0.0086	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	23%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-27		
Lab Sample ID:	JD91204-2	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	97.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	26%		10-96%
118-79-6	2,4,6-Tribromophenol	27%		10-123%
4165-60-0	Nitrobenzene-d5	30%		10-109%
321-60-8	2-Fluorobiphenyl	34%		11-109%
1718-51-0	Terphenyl-d14	34%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	12.37	.19	mg/kg	J
	Total TIC, Semi-Volatile		.19	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-27		
Lab Sample ID:	JD91204-2	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	97.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G138859.D	1	07/01/24 02:33	CP	06/29/24 14:50	OP55761	G5G3659
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00039	0.000076	mg/kg	
319-84-6	alpha-BHC	ND	0.00039	0.000045	mg/kg	
319-85-7	beta-BHC	ND	0.00039	0.000056	mg/kg	
319-86-8	delta-BHC	ND	0.00039	0.000058	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00039	0.000068	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.00039	0.000052	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.00039	0.000058	mg/kg	
57-74-9	Chlordane (alpha and gamma)	ND	0.00039	0.000052	mg/kg	
60-57-1	Dieldrin	ND	0.00039	0.000062	mg/kg	
72-54-8	4,4'-DDD	ND	0.00039	0.000041	mg/kg	
72-55-9	4,4'-DDE [a]	0.00022	0.00039	0.000047	mg/kg	J
50-29-3	4,4'-DDT	0.000088	0.00039	0.000068	mg/kg	J
72-20-8	Endrin	ND	0.00039	0.000056	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00039	0.000047	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00039	0.00011	mg/kg	
959-98-8	Endosulfan-I	ND	0.00039	0.000052	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00039	0.000054	mg/kg	
76-44-8	Heptachlor	ND	0.00039	0.000050	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00039	0.000070	mg/kg	
72-43-5	Methoxychlor	ND	0.00039	0.00015	mg/kg	
53494-70-5	Endrin ketone	ND	0.00039	0.000062	mg/kg	
8001-35-2	Toxaphene	ND	0.0049	0.0032	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	59%		46-145%
877-09-8	Tetrachloro-m-xylene	75%		46-145%
2051-24-3	Decachlorobiphenyl	65%		29-163%
2051-24-3	Decachlorobiphenyl	62%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-27		
Lab Sample ID:	JD91204-2	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	97.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL17977.D	1	07/01/24 03:28	CP	06/29/24 14:50	OP55762	GRL399
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.019	0.0082	mg/kg	
11104-28-2	Aroclor 1221	ND	0.019	0.0065	mg/kg	
11141-16-5	Aroclor 1232	ND	0.019	0.016	mg/kg	
53469-21-9	Aroclor 1242	ND	0.019	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.019	0.0042	mg/kg	
11097-69-1	Aroclor 1254	ND	0.019	0.0021	mg/kg	
11096-82-5	Aroclor 1260	ND	0.019	0.0067	mg/kg	
11100-14-4	Aroclor 1268	ND	0.019	0.0020	mg/kg	
37324-23-5	Aroclor 1262	ND	0.019	0.0016	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		42-159%
877-09-8	Tetrachloro-m-xylene	97%		42-159%
2051-24-3	Decachlorobiphenyl	81%		18-154%
2051-24-3	Decachlorobiphenyl	91%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-27
Lab Sample ID: JD91204-2
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/26/24
Date Received: 06/26/24
Percent Solids: 97.2

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	9040	52	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.1	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	3.1	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	21.5	21	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.31	0.21	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.52	0.52	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	< 520	520	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	9.2	1.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.2	5.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	9.4	2.6	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	13200	52	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	19.7	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1760	520	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	237	1.6	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.033	0.033	mg/kg	1	06/28/24	07/01/24	MK	SW846 7471B [1]	SW846 7471B [4]
Nickel	9.1	4.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1000	1000	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.52	0.52	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1000	1000	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	13.7	5.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	28.6	5.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56369
(2) Instrument QC Batch: MA56387
(3) Prep QC Batch: MP47572
(4) Prep QC Batch: MP47595

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-27		
Lab Sample ID:	JD91204-2	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	97.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.40	0.40	mg/kg	1	07/01/24 17:14	RI	SW846 3060A/7196A
Cyanide	< 0.23	0.23	mg/kg	1	06/28/24 17:56	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	380		mv	1	06/28/24 14:18	MM	ASTM D1498-76M
Solids, Percent	97.2		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	3.90 NC		su	1	06/28/24 13:50	MM	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.9 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-25		
Lab Sample ID:	JD91204-3	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	94.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ7995.D	1	07/01/24 15:16	KM	06/30/24 17:15	OP55759	ECJ348
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol [a]	ND	0.069	0.017	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.17	0.021	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.17	0.029	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.17	0.061	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.17	0.13	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.17	0.037	mg/kg	
95-48-7	2-Methylphenol [a]	ND	0.069	0.022	mg/kg	
	3&4-Methylphenol	ND	0.069	0.028	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.17	0.023	mg/kg	
100-02-7	4-Nitrophenol [b]	ND	0.34	0.092	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.14	0.032	mg/kg	
108-95-2	Phenol [a]	ND	0.069	0.018	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.17	0.023	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.17	0.026	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.17	0.020	mg/kg	
83-32-9	Acenaphthene	ND	0.034	0.012	mg/kg	
208-96-8	Acenaphthylene	ND	0.034	0.017	mg/kg	
98-86-2	Acetophenone	ND	0.17	0.0074	mg/kg	
120-12-7	Anthracene	ND	0.034	0.021	mg/kg	
1912-24-9	Atrazine [a]	ND	0.069	0.015	mg/kg	
56-55-3	Benzo(a)anthracene	0.0846	0.034	0.0097	mg/kg	
50-32-8	Benzo(a)pyrene	0.0962	0.034	0.016	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.132	0.034	0.015	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0711	0.034	0.017	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0400	0.034	0.016	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.069	0.013	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.069	0.0084	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.069	0.0047	mg/kg	
100-52-7	Benzaldehyde	0.0106	0.17	0.0085	mg/kg	J
91-58-7	2-Chloronaphthalene	ND	0.069	0.0082	mg/kg	
106-47-8	4-Chloroaniline	ND	0.17	0.012	mg/kg	
86-74-8	Carbazole	0.0076	0.069	0.0050	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-25		
Lab Sample ID:	JD91204-3	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	94.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.069	0.014	mg/kg	
218-01-9	Chrysene	0.0980	0.034	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.069	0.0074	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.069	0.015	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.069	0.012	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.069	0.011	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.034	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.034	0.017	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.069	0.029	mg/kg	
123-91-1	1,4-Dioxane	ND	0.034	0.023	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0202	0.034	0.015	mg/kg	J
132-64-9	Dibenzofuran	ND	0.069	0.014	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.069	0.0056	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.069	0.0086	mg/kg	
84-66-2	Diethyl phthalate	ND	0.069	0.0073	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.069	0.0061	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0126	0.069	0.0080	mg/kg	J
206-44-0	Fluoranthene	0.182	0.034	0.015	mg/kg	
86-73-7	Fluorene	ND	0.034	0.016	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.069	0.0087	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.034	0.014	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.34	0.014	mg/kg	
67-72-1	Hexachloroethane	ND	0.17	0.017	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0574	0.034	0.016	mg/kg	
78-59-1	Isophorone	ND	0.069	0.0074	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.034	0.0078	mg/kg	
88-74-4	2-Nitroaniline	ND	0.17	0.0081	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.17	0.0086	mg/kg	
100-01-6	4-Nitroaniline	ND	0.17	0.0089	mg/kg	
91-20-3	Naphthalene	ND	0.034	0.0097	mg/kg	
98-95-3	Nitrobenzene	ND	0.069	0.013	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.069	0.0099	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.17	0.013	mg/kg	
85-01-8	Phenanthrene	0.0779	0.034	0.012	mg/kg	
129-00-0	Pyrene	0.165	0.034	0.011	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.17	0.0087	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	22%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-25		
Lab Sample ID:	JD91204-3	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	94.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	26%		10-96%
118-79-6	2,4,6-Tribromophenol	31%		10-123%
4165-60-0	Nitrobenzene-d5	27%		10-109%
321-60-8	2-Fluorobiphenyl	34%		11-109%
1718-51-0	Terphenyl-d14	34%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Alkane	11.08	.5	mg/kg	J
	Unknown	11.51	.32	mg/kg	J
	Alkane	11.67	1	mg/kg	J
	Unknown	11.75	.15	mg/kg	J
	Unknown	11.83	.22	mg/kg	J
	Alkane	12.01	.17	mg/kg	J
	Unknown	12.21	.29	mg/kg	J
	Alkane	12.41	.42	mg/kg	J
	Unknown	12.53	.23	mg/kg	J
	Sitosterol	12.77	.41	mg/kg	J
	Unknown	13.00	.16	mg/kg	J
	Unknown	13.13	.2	mg/kg	J
	Unknown	13.32	.24	mg/kg	J
	Unknown	13.55	.28	mg/kg	J
	Unknown	13.95	.22	mg/kg	J
	Total TIC, Semi-Volatile		4.81	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-25		
Lab Sample ID:	JD91204-3	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	94.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G138860.D	1	07/01/24 02:54	CP	06/29/24 14:50	OP55761	G5G3659
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00041	0.000079	mg/kg	
319-84-6	alpha-BHC	ND	0.00041	0.000047	mg/kg	
319-85-7	beta-BHC	ND	0.00041	0.000059	mg/kg	
319-86-8	delta-BHC	ND	0.00041	0.000061	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00041	0.000071	mg/kg	
5103-71-9	alpha-Chlordane [a]	0.00079	0.00041	0.000055	mg/kg	
5103-74-2	gamma-Chlordane [a]	0.00078	0.00041	0.000061	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0016	0.00041	0.000055	mg/kg	
60-57-1	Dieldrin	0.00048	0.00041	0.000065	mg/kg	
72-54-8	4,4'-DDD	0.00064	0.00041	0.000043	mg/kg	
72-55-9	4,4'-DDE	0.0067	0.00041	0.000049	mg/kg	
50-29-3	4,4'-DDT	0.0121	0.00041	0.000071	mg/kg	
72-20-8	Endrin	ND	0.00041	0.000059	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00041	0.000049	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00041	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00041	0.000055	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00041	0.000057	mg/kg	
76-44-8	Heptachlor	ND	0.00041	0.000053	mg/kg	
1024-57-3	Heptachlor epoxide [a]	0.00025	0.00041	0.000073	mg/kg	J
72-43-5	Methoxychlor	ND	0.00041	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00041	0.000065	mg/kg	
8001-35-2	Toxaphene	ND	0.0051	0.0034	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	47%		46-145%
877-09-8	Tetrachloro-m-xylene	68%		46-145%
2051-24-3	Decachlorobiphenyl	104%		29-163%
2051-24-3	Decachlorobiphenyl	89%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-25		
Lab Sample ID:	JD91204-3	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	94.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL17978.D	1	07/01/24 03:44	CP	06/29/24 14:50	OP55762	GRL399
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.020	0.0087	mg/kg	
11104-28-2	Aroclor 1221	ND	0.020	0.0068	mg/kg	
11141-16-5	Aroclor 1232	ND	0.020	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.020	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.020	0.0044	mg/kg	
11097-69-1	Aroclor 1254	ND	0.020	0.0022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.020	0.0070	mg/kg	
11100-14-4	Aroclor 1268	ND	0.020	0.0021	mg/kg	
37324-23-5	Aroclor 1262	ND	0.020	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		42-159%
877-09-8	Tetrachloro-m-xylene	98%		42-159%
2051-24-3	Decachlorobiphenyl	108%		18-154%
2051-24-3	Decachlorobiphenyl	129%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-25
Lab Sample ID: JD91204-3
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/26/24
Date Received: 06/26/24
Percent Solids: 94.4

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	9550	55	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.2	2.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	9.4	2.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	47.3	22	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.40	0.22	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.55	0.55	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	573	550	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	11.9	1.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.5	5.5	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	13.8	2.7	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	12800	55	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	51.0	2.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1420	550	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	624	1.6	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.14	0.031	mg/kg	1	06/28/24	07/01/24	MK	SW846 7471B [1]	SW846 7471B [4]
Nickel	9.1	4.4	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.55	0.55	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	17.3	5.5	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	42.0	5.5	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56369
(2) Instrument QC Batch: MA56387
(3) Prep QC Batch: MP47572
(4) Prep QC Batch: MP47595

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-25		
Lab Sample ID:	JD91204-3	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	94.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.46	0.43	mg/kg	1	07/01/24 17:14	RI	SW846 3060A/7196A
Cyanide	< 0.25	0.25	mg/kg	1	06/28/24 17:57	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	407		mv	1	06/28/24 14:19	MM	ASTM D1498-76M
Solids, Percent	94.4		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	3.89 NC		su	1	06/28/24 13:51	MM	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.9 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-16		
Lab Sample ID:	JD91204-4	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ8013.D	1	07/01/24 20:53	KM	06/30/24 17:15	OP55759	ECJ348
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol [a]	ND	0.072	0.018	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.18	0.022	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.18	0.031	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.18	0.064	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.18	0.14	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.18	0.039	mg/kg	
95-48-7	2-Methylphenol [a]	ND	0.072	0.023	mg/kg	
	3&4-Methylphenol	ND	0.072	0.030	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.18	0.024	mg/kg	
100-02-7	4-Nitrophenol [b]	ND	0.36	0.097	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.14	0.034	mg/kg	
108-95-2	Phenol [a]	ND	0.072	0.019	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.18	0.024	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.18	0.027	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.18	0.022	mg/kg	
83-32-9	Acenaphthene	0.0489	0.036	0.012	mg/kg	
208-96-8	Acenaphthylene	0.0712	0.036	0.018	mg/kg	
98-86-2	Acetophenone	ND	0.18	0.0078	mg/kg	
120-12-7	Anthracene	0.170	0.036	0.022	mg/kg	
1912-24-9	Atrazine [a]	ND	0.072	0.015	mg/kg	
56-55-3	Benzo(a)anthracene	0.751	0.036	0.010	mg/kg	
50-32-8	Benzo(a)pyrene	0.810	0.036	0.016	mg/kg	
205-99-2	Benzo(b)fluoranthene	1.06	0.036	0.016	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.588	0.036	0.018	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.369	0.036	0.017	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.072	0.014	mg/kg	
85-68-7	Butyl benzyl phthalate [c]	0.0122	0.072	0.0088	mg/kg	J
92-52-4	1,1'-Biphenyl	0.0069	0.072	0.0050	mg/kg	J
100-52-7	Benzaldehyde	0.0285	0.18	0.0090	mg/kg	J
91-58-7	2-Chloronaphthalene	ND	0.072	0.0086	mg/kg	
106-47-8	4-Chloroaniline	ND	0.18	0.013	mg/kg	
86-74-8	Carbazole	0.0651	0.072	0.0052	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-16		
Lab Sample ID:	JD91204-4	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.072	0.014	mg/kg	
218-01-9	Chrysene	0.819	0.036	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.072	0.0077	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.072	0.016	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.072	0.013	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.072	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.036	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.036	0.018	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.072	0.030	mg/kg	
123-91-1	1,4-Dioxane	ND	0.036	0.024	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.173	0.036	0.016	mg/kg	
132-64-9	Dibenzofuran	0.0176	0.072	0.015	mg/kg	J
84-74-2	Di-n-butyl phthalate	ND	0.072	0.0059	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.072	0.0090	mg/kg	
84-66-2	Diethyl phthalate	ND	0.072	0.0077	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.072	0.0064	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0401	0.072	0.0085	mg/kg	J
206-44-0	Fluoranthene	1.55	0.036	0.016	mg/kg	
86-73-7	Fluorene	0.0428	0.036	0.017	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.072	0.0092	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.036	0.015	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.36	0.014	mg/kg	
67-72-1	Hexachloroethane	ND	0.18	0.018	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.473	0.036	0.017	mg/kg	
78-59-1	Isophorone	ND	0.072	0.0077	mg/kg	
91-57-6	2-Methylnaphthalene	0.0101	0.036	0.0082	mg/kg	J
88-74-4	2-Nitroaniline	ND	0.18	0.0085	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.18	0.0090	mg/kg	
100-01-6	4-Nitroaniline	ND	0.18	0.0094	mg/kg	
91-20-3	Naphthalene	0.0182	0.036	0.010	mg/kg	J
98-95-3	Nitrobenzene	ND	0.072	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.072	0.010	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.18	0.013	mg/kg	
85-01-8	Phenanthrene	0.612	0.036	0.012	mg/kg	
129-00-0	Pyrene	1.36	0.036	0.012	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.18	0.0092	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-16		
Lab Sample ID:	JD91204-4	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	55%		10-96%
118-79-6	2,4,6-Tribromophenol	63%		10-123%
4165-60-0	Nitrobenzene-d5	53%		10-109%
321-60-8	2-Fluorobiphenyl	61%		11-109%
1718-51-0	Terphenyl-d14	63%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.54	.79	mg/kg	J
57-10-3	n-Hexadecanoic acid	8.00	.27	mg/kg	JN
	Pyrene methyl	9.22	.24	mg/kg	J
	Unknown	9.89	.33	mg/kg	J
	Unknown	10.53	.54	mg/kg	J
	Unknown acid	10.73	.24	mg/kg	J
	Unknown PAH substance	11.05	.44	mg/kg	J
	Alkane	11.09	.86	mg/kg	J
	Unknown alcohol	11.12	1.1	mg/kg	J
	Alkane	11.37	.5	mg/kg	J
	Unknown	11.44	.59	mg/kg	J
	Unknown alcohol	11.52	1.2	mg/kg	J
7616-22-0	.gamma.-Tocopherol	11.59	.31	mg/kg	JN
	Alkane	11.69	1.4	mg/kg	J
	Unknown alcohol	11.74	.94	mg/kg	J
59-02-9	Vitamin E	11.85	.51	mg/kg	JN
	Unknown	11.94	.32	mg/kg	J
	Alkane	12.03	.4	mg/kg	J
	Unknown alcohol	12.13	.39	mg/kg	J
	Unknown alcohol	12.23	1.2	mg/kg	J
	Alkane	12.43	.54	mg/kg	J
	Unknown alcohol	12.55	.91	mg/kg	J
	Sitosterol	12.72	.35	mg/kg	J
	Unknown alcohol	13.16	.48	mg/kg	J
	Unknown alcohol	13.59	.36	mg/kg	J
	Total TIC, Semi-Volatile		15.21	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
(c) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-16		
Lab Sample ID:	JD91204-4	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	91.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G138861.D	1	07/01/24 03:15	CP	06/29/24 14:50	OP55761	G5G3659
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00042	0.000082	mg/kg	
319-84-6	alpha-BHC	0.00014	0.00042	0.000048	mg/kg	J
319-85-7	beta-BHC	ND	0.00042	0.000061	mg/kg	
319-86-8	delta-BHC	ND	0.00042	0.000063	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00042	0.000074	mg/kg	
5103-71-9	alpha-Chlordane [a]	0.0105	0.00042	0.000057	mg/kg	
5103-74-2	gamma-Chlordane [a]	0.0055	0.00042	0.000063	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0161	0.00042	0.000057	mg/kg	
60-57-1	Dieldrin [a]	0.0013	0.00042	0.000067	mg/kg	
72-54-8	4,4'-DDD [b]	0.0029	0.00042	0.000044	mg/kg	
72-55-9	4,4'-DDE [a]	0.0047	0.00042	0.000050	mg/kg	
50-29-3	4,4'-DDT	0.0101	0.00042	0.000074	mg/kg	
72-20-8	Endrin	ND	0.00042	0.000061	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00042	0.000050	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00042	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00042	0.000057	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00042	0.000059	mg/kg	
76-44-8	Heptachlor	ND	0.00042	0.000055	mg/kg	
1024-57-3	Heptachlor epoxide [a]	0.0049	0.00042	0.000076	mg/kg	
72-43-5	Methoxychlor	ND	0.00042	0.00017	mg/kg	
53494-70-5	Endrin ketone	ND	0.00042	0.000067	mg/kg	
8001-35-2	Toxaphene	ND	0.0053	0.0035	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	58%		46-145%
877-09-8	Tetrachloro-m-xylene	49%		46-145%
2051-24-3	Decachlorobiphenyl	519% [c]		29-163%
2051-24-3	Decachlorobiphenyl	113%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-16		
Lab Sample ID:	JD91204-4	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	91.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-16		
Lab Sample ID:	JD91204-4	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	91.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL17979.D	1	07/01/24 04:01	CP	06/29/24 14:50	OP55762	GRL399
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.021	0.0089	mg/kg	
11104-28-2	Aroclor 1221	ND	0.021	0.0071	mg/kg	
11141-16-5	Aroclor 1232	ND	0.021	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.021	0.013	mg/kg	
12672-29-6	Aroclor 1248	ND	0.021	0.0045	mg/kg	
11097-69-1	Aroclor 1254	ND	0.021	0.0023	mg/kg	
11096-82-5	Aroclor 1260	ND	0.021	0.0073	mg/kg	
11100-14-4	Aroclor 1268	ND	0.021	0.0021	mg/kg	
37324-23-5	Aroclor 1262	0.0150	0.021	0.0018	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		42-159%
877-09-8	Tetrachloro-m-xylene	100%		42-159%
2051-24-3	Decachlorobiphenyl	81%		18-154%
2051-24-3	Decachlorobiphenyl	94%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-16
Lab Sample ID: JD91204-4
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/26/24
Date Received: 06/26/24
Percent Solids: 91.5

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	8060	53	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.1	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	4.7	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	37.1	21	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.29	0.21	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.53	0.53	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	945	530	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	11.8	1.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.3	5.3	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	14.8	2.6	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	12900	53	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	58.2	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1810	530	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	352	1.6	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.11	0.034	mg/kg	1	06/28/24	07/01/24	MK	SW846 7471B [1]	SW846 7471B [4]
Nickel	9.3	4.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.53	0.53	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	19.4	5.3	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	41.8	5.3	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56369
(2) Instrument QC Batch: MA56387
(3) Prep QC Batch: MP47572
(4) Prep QC Batch: MP47595

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-16		
Lab Sample ID:	JD91204-4	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	91.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.44	0.44	mg/kg	1	07/01/24 17:14	RI	SW846 3060A/7196A
Cyanide	0.23	0.23	mg/kg	1	06/28/24 17:59	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	398		mv	1	06/28/24 14:21	MM	ASTM D1498-76M
Solids, Percent	91.5		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	3.95 NC		su	1	06/28/24 13:54	MM	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-28		
Lab Sample ID:	JD91204-5	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	95.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ8008.D	1	07/01/24 19:19	KM	06/30/24 17:15	OP55759	ECJ348
Run #2							

	Initial Weight	Final Volume
Run #1	31.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol [a]	ND	0.066	0.016	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.17	0.020	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.17	0.028	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.17	0.059	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.17	0.12	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.17	0.036	mg/kg	
95-48-7	2-Methylphenol [a]	ND	0.066	0.021	mg/kg	
	3&4-Methylphenol	ND	0.066	0.027	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.17	0.022	mg/kg	
100-02-7	4-Nitrophenol [b]	ND	0.33	0.089	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.13	0.031	mg/kg	
108-95-2	Phenol [a]	ND	0.066	0.017	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.17	0.022	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.17	0.025	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.17	0.020	mg/kg	
83-32-9	Acenaphthene	0.0515	0.033	0.011	mg/kg	
208-96-8	Acenaphthylene	0.150	0.033	0.017	mg/kg	
98-86-2	Acetophenone	ND	0.17	0.0071	mg/kg	
120-12-7	Anthracene	0.224	0.033	0.020	mg/kg	
1912-24-9	Atrazine [a]	ND	0.066	0.014	mg/kg	
56-55-3	Benzo(a)anthracene	0.773	0.033	0.0094	mg/kg	
50-32-8	Benzo(a)pyrene	0.898	0.033	0.015	mg/kg	
205-99-2	Benzo(b)fluoranthene	1.06	0.033	0.015	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.639	0.033	0.017	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.360	0.033	0.016	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.066	0.013	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.066	0.0081	mg/kg	
92-52-4	1,1'-Biphenyl	0.0070	0.066	0.0045	mg/kg	J
100-52-7	Benzaldehyde	ND	0.17	0.0082	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.066	0.0079	mg/kg	
106-47-8	4-Chloroaniline	ND	0.17	0.012	mg/kg	
86-74-8	Carbazole	0.0501	0.066	0.0048	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-28		
Lab Sample ID:	JD91204-5	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	95.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.066	0.013	mg/kg	
218-01-9	Chrysene	0.751	0.033	0.010	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.066	0.0071	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.066	0.014	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.066	0.012	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.066	0.011	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.033	0.010	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.033	0.017	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.066	0.028	mg/kg	
123-91-1	1,4-Dioxane	ND	0.033	0.022	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.174	0.033	0.015	mg/kg	
132-64-9	Dibenzofuran	0.0272	0.066	0.014	mg/kg	J
84-74-2	Di-n-butyl phthalate	ND	0.066	0.0054	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.066	0.0083	mg/kg	
84-66-2	Diethyl phthalate	ND	0.066	0.0071	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.066	0.0059	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0186	0.066	0.0078	mg/kg	J
206-44-0	Fluoranthene	1.55	0.033	0.015	mg/kg	
86-73-7	Fluorene	0.0657	0.033	0.015	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.066	0.0084	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.033	0.013	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.33	0.013	mg/kg	
67-72-1	Hexachloroethane	ND	0.17	0.016	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.507	0.033	0.016	mg/kg	
78-59-1	Isophorone	ND	0.066	0.0071	mg/kg	
91-57-6	2-Methylnaphthalene	0.0187	0.033	0.0075	mg/kg	J
88-74-4	2-Nitroaniline	ND	0.17	0.0078	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.17	0.0083	mg/kg	
100-01-6	4-Nitroaniline	ND	0.17	0.0086	mg/kg	
91-20-3	Naphthalene	0.0306	0.033	0.0094	mg/kg	J
98-95-3	Nitrobenzene	ND	0.066	0.013	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.066	0.0096	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.17	0.012	mg/kg	
85-01-8	Phenanthrene	0.640	0.033	0.011	mg/kg	
129-00-0	Pyrene	1.40	0.033	0.011	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.17	0.0084	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-28		
Lab Sample ID:	JD91204-5	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	95.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	42%		10-96%
118-79-6	2,4,6-Tribromophenol	38%		10-123%
4165-60-0	Nitrobenzene-d5	43%		10-109%
321-60-8	2-Fluorobiphenyl	50%		11-109%
1718-51-0	Terphenyl-d14	50%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.55	.44	mg/kg	J
203-64-5	4H-Cyclopenta[def]phenanthrene	8.03	.3	mg/kg	JN
	Pyrene methyl	9.12	.21	mg/kg	J
	Pyrene methyl	9.22	.18	mg/kg	J
	Unknown alcohol	9.90	.18	mg/kg	J
	Unknown alcohol	10.53	.33	mg/kg	J
	Unknown PAH substance	11.04	.17	mg/kg	J
	Alkane	11.08	.46	mg/kg	J
	Unknown alcohol	11.13	.61	mg/kg	J
	Unknown PAH substance	11.18	.54	mg/kg	J
	Unknown alcohol	11.51	.51	mg/kg	J
	Alkane	11.68	.88	mg/kg	J
	Unknown	11.76	.35	mg/kg	J
	Unknown alcohol	12.22	.61	mg/kg	J
	Alkane	12.42	.42	mg/kg	J
	Unknown PAH substance	12.47	.17	mg/kg	J
	Unknown	12.53	.36	mg/kg	J
	Sitosterol	12.72	.29	mg/kg	J
	Unknown PAH substance	12.78	.2	mg/kg	J
	Unknown alcohol	13.14	.41	mg/kg	J
	Unknown	13.34	.16	mg/kg	J
	Unknown alcohol	13.58	.23	mg/kg	J
	Unknown	13.96	.16	mg/kg	J
	Dibenzopyrene	14.11	.21	mg/kg	J
	Dibenzopyrene	14.23	.19	mg/kg	J
	Total TIC, Semi-Volatile		8.57	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-28		
Lab Sample ID:	JD91204-5	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	95.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G138862.D	1	07/01/24 03:36	CP	06/29/24 14:50	OP55761	G5G3659
Run #2	5G138909.D	10	07/02/24 08:14	CP	06/29/24 14:50	OP55761	G5G3661

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2	5.4 g	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00039	0.000075	mg/kg	
319-84-6	alpha-BHC [a]	0.00012	0.00039	0.000044	mg/kg	J
319-85-7	beta-BHC	ND	0.00039	0.000056	mg/kg	
319-86-8	delta-BHC	ND	0.00039	0.000058	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00039	0.000068	mg/kg	
5103-71-9	alpha-Chlordane [a]	0.0016	0.00039	0.000052	mg/kg	
5103-74-2	gamma-Chlordane [a]	0.0011	0.00039	0.000058	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0027	0.00039	0.000052	mg/kg	
60-57-1	Dieldrin [a]	0.00053	0.00039	0.000062	mg/kg	
72-54-8	4,4'-DDD	0.0030	0.00039	0.000041	mg/kg	
72-55-9	4,4'-DDE [a]	0.0358 [b]	0.0039	0.00046	mg/kg	
50-29-3	4,4'-DDT	0.0686 [b]	0.0039	0.00068	mg/kg	
72-20-8	Endrin	ND	0.00039	0.000056	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00039	0.000046	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00039	0.00011	mg/kg	
959-98-8	Endosulfan-I	ND	0.00039	0.000052	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00039	0.000054	mg/kg	
76-44-8	Heptachlor	ND	0.00039	0.000050	mg/kg	
1024-57-3	Heptachlor epoxide	0.00078	0.00039	0.000070	mg/kg	
72-43-5	Methoxychlor	ND	0.00039	0.00015	mg/kg	
53494-70-5	Endrin ketone	ND	0.00039	0.000062	mg/kg	
8001-35-2	Toxaphene	ND	0.0048	0.0032	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	45% [c]	61%	46-145%
877-09-8	Tetrachloro-m-xylene	58%	74%	46-145%
2051-24-3	Decachlorobiphenyl	817% [c]	421% [c]	29-163%
2051-24-3	Decachlorobiphenyl	193% [c]	76%	29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-28		
Lab Sample ID:	JD91204-5	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	95.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-28		
Lab Sample ID:	JD91204-5	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	95.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL17980.D	1	07/01/24 04:18	CP	06/29/24 14:50	OP55762	GRL399
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.019	0.0082	mg/kg	
11104-28-2	Aroclor 1221	ND	0.019	0.0065	mg/kg	
11141-16-5	Aroclor 1232	ND	0.019	0.016	mg/kg	
53469-21-9	Aroclor 1242	ND	0.019	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.019	0.0042	mg/kg	
11097-69-1	Aroclor 1254	ND	0.019	0.0021	mg/kg	
11096-82-5	Aroclor 1260	ND	0.019	0.0067	mg/kg	
11100-14-4	Aroclor 1268	ND	0.019	0.0020	mg/kg	
37324-23-5	Aroclor 1262	ND	0.019	0.0016	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		42-159%
877-09-8	Tetrachloro-m-xylene	106%		42-159%
2051-24-3	Decachlorobiphenyl	81%		18-154%
2051-24-3	Decachlorobiphenyl	97%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-28
Lab Sample ID: JD91204-5
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/26/24
Date Received: 06/26/24
Percent Solids: 95.9

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	4990	53	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.1	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	2.1	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	25.1	21	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	< 0.21	0.21	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.53	0.53	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	3350	530	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	6.8	1.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.3	5.3	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	12.4	2.6	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	10100	53	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	13.1	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1640	530	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	248	1.6	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.16	0.029	mg/kg	1	06/28/24	07/01/24	MK	SW846 7471B [1]	SW846 7471B [4]
Nickel	7.6	4.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.53	0.53	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	14.9	5.3	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	24.7	5.3	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56369
(2) Instrument QC Batch: MA56387
(3) Prep QC Batch: MP47572
(4) Prep QC Batch: MP47595

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-28		
Lab Sample ID:	JD91204-5	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	95.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.41	0.41	mg/kg	1	07/01/24 17:14	RI	SW846 3060A/7196A
Cyanide	0.33	0.25	mg/kg	1	06/28/24 18:00	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	405		mv	1	06/28/24 14:26	MM	ASTM D1498-76M
Solids, Percent	95.9		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	4.06 NC		su	1	06/28/24 13:57	MM	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-24A		
Lab Sample ID:	JD91204-6	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	97.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ8014.D	1	07/01/24 21:11	KM	06/30/24 17:15	OP55759	ECJ348
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol [a]	ND	0.066	0.016	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.17	0.020	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.17	0.028	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.17	0.059	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.17	0.12	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.17	0.035	mg/kg	
95-48-7	2-Methylphenol [a]	ND	0.066	0.021	mg/kg	
	3&4-Methylphenol	ND	0.066	0.027	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.17	0.022	mg/kg	
100-02-7	4-Nitrophenol [b]	ND	0.33	0.089	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.13	0.031	mg/kg	
108-95-2	Phenol [a]	ND	0.066	0.017	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.17	0.022	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.17	0.025	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.17	0.020	mg/kg	
83-32-9	Acenaphthene	0.0131	0.033	0.011	mg/kg	J
208-96-8	Acenaphthylene	0.0264	0.033	0.017	mg/kg	J
98-86-2	Acetophenone	ND	0.17	0.0071	mg/kg	
120-12-7	Anthracene	0.0506	0.033	0.020	mg/kg	
1912-24-9	Atrazine [a]	ND	0.066	0.014	mg/kg	
56-55-3	Benzo(a)anthracene	0.101	0.033	0.0094	mg/kg	
50-32-8	Benzo(a)pyrene	0.121	0.033	0.015	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.172	0.033	0.015	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0816	0.033	0.017	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0513	0.033	0.015	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.066	0.013	mg/kg	
85-68-7	Butyl benzyl phthalate [c]	0.0168	0.066	0.0081	mg/kg	J
92-52-4	1,1'-Biphenyl	0.0054	0.066	0.0045	mg/kg	J
100-52-7	Benzaldehyde	ND	0.17	0.0082	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.066	0.0079	mg/kg	
106-47-8	4-Chloroaniline	ND	0.17	0.012	mg/kg	
86-74-8	Carbazole	0.0324	0.066	0.0048	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-24A
Lab Sample ID: JD91204-6
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/26/24
Date Received: 06/26/24
Percent Solids: 97.6

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.066	0.013	mg/kg	
218-01-9	Chrysene	0.107	0.033	0.010	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.066	0.0071	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.066	0.014	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.066	0.012	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.066	0.011	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.033	0.010	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.033	0.017	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.066	0.028	mg/kg	
123-91-1	1,4-Dioxane	ND	0.033	0.022	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0268	0.033	0.015	mg/kg	J
132-64-9	Dibenzofuran	ND	0.066	0.013	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.066	0.0054	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.066	0.0083	mg/kg	
84-66-2	Diethyl phthalate	ND	0.066	0.0071	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.066	0.0059	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0150	0.066	0.0078	mg/kg	J
206-44-0	Fluoranthene	0.222	0.033	0.015	mg/kg	
86-73-7	Fluorene	ND	0.033	0.015	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.066	0.0084	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.033	0.013	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.33	0.013	mg/kg	
67-72-1	Hexachloroethane	ND	0.17	0.016	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0646	0.033	0.016	mg/kg	
78-59-1	Isophorone	ND	0.066	0.0071	mg/kg	
91-57-6	2-Methylnaphthalene	0.0096	0.033	0.0075	mg/kg	J
88-74-4	2-Nitroaniline	ND	0.17	0.0078	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.17	0.0083	mg/kg	
100-01-6	4-Nitroaniline	ND	0.17	0.0086	mg/kg	
91-20-3	Naphthalene	0.0195	0.033	0.0094	mg/kg	J
98-95-3	Nitrobenzene	ND	0.066	0.013	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.066	0.0096	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.17	0.012	mg/kg	
85-01-8	Phenanthrene	0.128	0.033	0.011	mg/kg	
129-00-0	Pyrene	0.190	0.033	0.011	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.17	0.0084	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-24A		
Lab Sample ID:	JD91204-6	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	97.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	50%		10-96%
118-79-6	2,4,6-Tribromophenol	51%		10-123%
4165-60-0	Nitrobenzene-d5	51%		10-109%
321-60-8	2-Fluorobiphenyl	58%		11-109%
1718-51-0	Terphenyl-d14	54%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.55	.28	mg/kg	J
	Unknown	4.58	.27	mg/kg	J
	Unknown	4.80	.19	mg/kg	J
	Unknown	4.94	.67	mg/kg	J
	Unknown PAH substance	11.04	.24	mg/kg	J
	Alkane	11.09	.28	mg/kg	J
	Unknown	11.13	.28	mg/kg	J
	Unknown	11.52	.36	mg/kg	J
	Unknown	11.75	.17	mg/kg	J
	Dibenzopyrene	14.12	.15	mg/kg	J
	Total TIC, Semi-Volatile		2.89	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
(c) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-24A		
Lab Sample ID:	JD91204-6	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	97.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G138863.D	1	07/01/24 03:58	CP	06/29/24 14:50	OP55761	G5G3659
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00038	0.000074	mg/kg	
319-84-6	alpha-BHC	ND	0.00038	0.000044	mg/kg	
319-85-7	beta-BHC	ND	0.00038	0.000055	mg/kg	
319-86-8	delta-BHC	ND	0.00038	0.000057	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00038	0.000066	mg/kg	
5103-71-9	alpha-Chlordane	0.00079	0.00038	0.000051	mg/kg	
5103-74-2	gamma-Chlordane [a]	0.0010	0.00038	0.000057	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0018	0.00038	0.000051	mg/kg	
60-57-1	Dieldrin	0.00013	0.00038	0.000061	mg/kg	J
72-54-8	4,4'-DDD [a]	0.000072	0.00038	0.000040	mg/kg	J
72-55-9	4,4'-DDE [a]	0.00015	0.00038	0.000046	mg/kg	J
50-29-3	4,4'-DDT [a]	0.00045	0.00038	0.000066	mg/kg	
72-20-8	Endrin	ND	0.00038	0.000055	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00038	0.000046	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00038	0.00011	mg/kg	
959-98-8	Endosulfan-I	ND	0.00038	0.000051	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00038	0.000053	mg/kg	
76-44-8	Heptachlor [a]	0.00043	0.00038	0.000049	mg/kg	
1024-57-3	Heptachlor epoxide [a]	0.00024	0.00038	0.000068	mg/kg	J
72-43-5	Methoxychlor	ND	0.00038	0.00015	mg/kg	
53494-70-5	Endrin ketone	ND	0.00038	0.000061	mg/kg	
8001-35-2	Toxaphene	ND	0.0047	0.0031	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	23% [b]		46-145%
877-09-8	Tetrachloro-m-xylene	69%		46-145%
2051-24-3	Decachlorobiphenyl	50%		29-163%
2051-24-3	Decachlorobiphenyl	94%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-24A		
Lab Sample ID:	JD91204-6	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	97.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL17981.D	1	07/01/24 04:35	CP	06/29/24 14:50	OP55762	GRL399
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.019	0.0081	mg/kg	
11104-28-2	Aroclor 1221	ND	0.019	0.0064	mg/kg	
11141-16-5	Aroclor 1232	ND	0.019	0.016	mg/kg	
53469-21-9	Aroclor 1242	ND	0.019	0.011	mg/kg	
12672-29-6	Aroclor 1248	ND	0.019	0.0041	mg/kg	
11097-69-1	Aroclor 1254	ND	0.019	0.0020	mg/kg	
11096-82-5	Aroclor 1260	ND	0.019	0.0065	mg/kg	
11100-14-4	Aroclor 1268	ND	0.019	0.0019	mg/kg	
37324-23-5	Aroclor 1262	0.0061	0.019	0.0016	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		42-159%
877-09-8	Tetrachloro-m-xylene	95%		42-159%
2051-24-3	Decachlorobiphenyl	87%		18-154%
2051-24-3	Decachlorobiphenyl	103%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-24A
Lab Sample ID: JD91204-6
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/26/24
Date Received: 06/26/24
Percent Solids: 97.6

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	4340	51	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.0	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	< 2.0	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	24.5	20	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	< 0.20	0.20	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.51	0.51	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	2760	510	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	6.2	1.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.1	5.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	15.5	2.5	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	8710	51	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	24.6	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1460	510	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	175	1.5	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.029	0.029	mg/kg	1	06/28/24	07/01/24	MK	SW846 7471B [1]	SW846 7471B [4]
Nickel	7.2	4.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1000	1000	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.0	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.51	0.51	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1000	1000	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	11.3	5.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	33.4	5.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56369
(2) Instrument QC Batch: MA56387
(3) Prep QC Batch: MP47572
(4) Prep QC Batch: MP47595

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-24A		
Lab Sample ID:	JD91204-6	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	97.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.41	0.41	mg/kg	1	07/01/24 17:14	RI	SW846 3060A/7196A
Cyanide	< 0.23	0.23	mg/kg	1	06/28/24 18:01	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	401		mv	1	06/28/24 14:37	MM	ASTM D1498-76M
Solids, Percent	97.6		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	6.84 NC		su	1	06/28/24 14:09	MM	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-17		
Lab Sample ID:	JD91204-7	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	96.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ8015.D	1	07/01/24 21:30	KM	06/30/24 17:15	OP55759	ECJ348
Run #2							

	Initial Weight	Final Volume
Run #1	31.1 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol [a]	ND	0.066	0.016	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.17	0.020	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.17	0.028	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.17	0.059	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.17	0.12	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.17	0.036	mg/kg	
95-48-7	2-Methylphenol [a]	ND	0.066	0.021	mg/kg	
	3&4-Methylphenol	ND	0.066	0.027	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.17	0.022	mg/kg	
100-02-7	4-Nitrophenol [b]	ND	0.33	0.089	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.13	0.031	mg/kg	
108-95-2	Phenol [a]	ND	0.066	0.017	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.17	0.022	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.17	0.025	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.17	0.020	mg/kg	
83-32-9	Acenaphthene	0.0127	0.033	0.011	mg/kg	J
208-96-8	Acenaphthylene	0.0441	0.033	0.017	mg/kg	
98-86-2	Acetophenone	ND	0.17	0.0071	mg/kg	
120-12-7	Anthracene	0.0473	0.033	0.020	mg/kg	
1912-24-9	Atrazine [a]	ND	0.066	0.014	mg/kg	
56-55-3	Benzo(a)anthracene	0.173	0.033	0.0094	mg/kg	
50-32-8	Benzo(a)pyrene	0.205	0.033	0.015	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.253	0.033	0.015	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.171	0.033	0.017	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0718	0.033	0.016	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.066	0.013	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.066	0.0081	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.066	0.0046	mg/kg	
100-52-7	Benzaldehyde	ND	0.17	0.0082	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.066	0.0079	mg/kg	
106-47-8	4-Chloroaniline	ND	0.17	0.012	mg/kg	
86-74-8	Carbazole	0.0109	0.066	0.0048	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-17		
Lab Sample ID:	JD91204-7	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	96.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.066	0.013	mg/kg	
218-01-9	Chrysene	0.172	0.033	0.010	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.066	0.0071	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.066	0.014	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.066	0.012	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.066	0.011	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.033	0.010	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.033	0.017	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.066	0.028	mg/kg	
123-91-1	1,4-Dioxane	ND	0.033	0.022	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0426	0.033	0.015	mg/kg	
132-64-9	Dibenzofuran	ND	0.066	0.014	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.066	0.0054	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.066	0.0083	mg/kg	
84-66-2	Diethyl phthalate	ND	0.066	0.0071	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.066	0.0059	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0092	0.066	0.0078	mg/kg	J
206-44-0	Fluoranthene	0.321	0.033	0.015	mg/kg	
86-73-7	Fluorene	ND	0.033	0.015	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.066	0.0084	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.033	0.013	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.33	0.013	mg/kg	
67-72-1	Hexachloroethane	ND	0.17	0.016	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.128	0.033	0.016	mg/kg	
78-59-1	Isophorone	ND	0.066	0.0071	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.033	0.0075	mg/kg	
88-74-4	2-Nitroaniline	ND	0.17	0.0078	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.17	0.0083	mg/kg	
100-01-6	4-Nitroaniline	ND	0.17	0.0086	mg/kg	
91-20-3	Naphthalene	ND	0.033	0.0094	mg/kg	
98-95-3	Nitrobenzene	ND	0.066	0.013	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.066	0.0096	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.17	0.012	mg/kg	
85-01-8	Phenanthrene	0.136	0.033	0.011	mg/kg	
129-00-0	Pyrene	0.337	0.033	0.011	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.17	0.0084	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-17		
Lab Sample ID:	JD91204-7	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	96.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	30%		10-96%
118-79-6	2,4,6-Tribromophenol	36%		10-123%
4165-60-0	Nitrobenzene-d5	38%		10-109%
321-60-8	2-Fluorobiphenyl	45%		11-109%
1718-51-0	Terphenyl-d14	44%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	10.21	.14	mg/kg	J
	Unknown	10.32	.19	mg/kg	J
	Alkane	10.51	.15	mg/kg	J
	Unknown alcohol	10.53	.37	mg/kg	J
	Unknown	10.85	.33	mg/kg	J
	Unknown PAH substance	11.05	.21	mg/kg	J
	Alkane	11.08	.44	mg/kg	J
	Unknown	11.13	.47	mg/kg	J
	Unknown PAH substance	11.19	.37	mg/kg	J
	Alkane	11.37	.36	mg/kg	J
	Unknown	11.45	.41	mg/kg	J
	Unknown alcohol	11.51	.69	mg/kg	J
	Unknown	11.60	.24	mg/kg	J
	Alkane	11.68	.74	mg/kg	J
	Unknown alcohol	11.76	.4	mg/kg	J
	Unknown	11.80	.21	mg/kg	J
59-02-9	Vitamin E	11.85	.3	mg/kg	JN
	Unknown	11.94	.3	mg/kg	J
	Alkane	12.03	.3	mg/kg	J
	Unknown	12.12	.17	mg/kg	J
	Unknown alcohol	12.22	.55	mg/kg	J
	Unknown	12.38	.32	mg/kg	J
	Alkane	12.42	.18	mg/kg	J
	Unknown	12.54	.15	mg/kg	J
	Sitosterol	12.72	.16	mg/kg	J
	Total TIC, Semi-Volatile		8.15	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-17		
Lab Sample ID:	JD91204-7	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	96.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G138864.D	1	07/01/24 04:19	CP	06/29/24 14:50	OP55761	G5G3659
Run #2	5G138910.D	10	07/02/24 08:35	CP	06/29/24 14:50	OP55761	G5G3661

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2	5.1 g	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00041	0.000079	mg/kg	
319-84-6	alpha-BHC	ND	0.00041	0.000047	mg/kg	
319-85-7	beta-BHC	ND	0.00041	0.000059	mg/kg	
319-86-8	delta-BHC	ND	0.00041	0.000061	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00041	0.000071	mg/kg	
5103-71-9	alpha-Chlordane [a]	0.0143	0.00041	0.000055	mg/kg	
5103-74-2	gamma-Chlordane [a]	0.0363 [b]	0.0041	0.00061	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0745 [b]	0.0041	0.00055	mg/kg	
60-57-1	Dieldrin	0.00096	0.00041	0.000065	mg/kg	
72-54-8	4,4'-DDD	0.00043	0.00041	0.000043	mg/kg	
72-55-9	4,4'-DDE [a]	0.00055	0.00041	0.000049	mg/kg	
50-29-3	4,4'-DDT	0.0033	0.00041	0.000071	mg/kg	
72-20-8	Endrin	ND	0.00041	0.000059	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00041	0.000049	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00041	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00041	0.000055	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00041	0.000057	mg/kg	
76-44-8	Heptachlor [a]	0.00039	0.00041	0.000053	mg/kg	J
1024-57-3	Heptachlor epoxide [a]	0.00054	0.00041	0.000073	mg/kg	
72-43-5	Methoxychlor	ND	0.00041	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00041	0.000065	mg/kg	
8001-35-2	Toxaphene	ND	0.0051	0.0033	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	43% [c]	122%	46-145%
877-09-8	Tetrachloro-m-xylene	62%	157% [c]	46-145%
2051-24-3	Decachlorobiphenyl	178% [c]	295% [c]	29-163%
2051-24-3	Decachlorobiphenyl	92%	176% [c]	29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-17		
Lab Sample ID:	JD91204-7	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	96.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-17		
Lab Sample ID:	JD91204-7	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	96.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL17982.D	1	07/01/24 04:51	CP	06/29/24 14:50	OP55762	GRL399
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.020	0.0086	mg/kg	
11104-28-2	Aroclor 1221	ND	0.020	0.0068	mg/kg	
11141-16-5	Aroclor 1232	ND	0.020	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.020	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.020	0.0044	mg/kg	
11097-69-1	Aroclor 1254	ND	0.020	0.0022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.020	0.0070	mg/kg	
11100-14-4	Aroclor 1268	ND	0.020	0.0020	mg/kg	
37324-23-5	Aroclor 1262	ND	0.020	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		42-159%
877-09-8	Tetrachloro-m-xylene	96%		42-159%
2051-24-3	Decachlorobiphenyl	81%		18-154%
2051-24-3	Decachlorobiphenyl	92%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-17
Lab Sample ID: JD91204-7
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/26/24
Date Received: 06/26/24
Percent Solids: 96.8

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	4800	52	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.1	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	4.0	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	22.9	21	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.31	0.21	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.52	0.52	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	954	520	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	10.7	1.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.2	5.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	12.5	2.6	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	11600	52	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	20.2	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1200	520	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	180	1.6	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.058	0.032	mg/kg	1	06/28/24	07/01/24	MK	SW846 7471B [1]	SW846 7471B [4]
Nickel	5.5	4.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1000	1000	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.52	0.52	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1000	1000	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	17.3	5.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	27.3	5.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56369
(2) Instrument QC Batch: MA56387
(3) Prep QC Batch: MP47572
(4) Prep QC Batch: MP47595

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-17		
Lab Sample ID:	JD91204-7	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	96.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.41	0.41	mg/kg	1	07/01/24 17:14	RI	SW846 3060A/7196A
Cyanide	0.31	0.22	mg/kg	1	06/28/24 18:02	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	391		mv	1	06/28/24 14:38	MM	ASTM D1498-76M
Solids, Percent	96.8		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	4.69 NC		su	1	06/28/24 14:10	MM	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-14A		
Lab Sample ID:	JD91204-8	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	96.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ7996.D	1	07/01/24 15:35	KM	06/30/24 17:15	OP55759	ECJ348
Run #2							

	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol [a]	ND	0.067	0.017	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.17	0.021	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.17	0.029	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.17	0.060	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.17	0.13	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.17	0.036	mg/kg	
95-48-7	2-Methylphenol [a]	ND	0.067	0.021	mg/kg	
	3&4-Methylphenol	ND	0.067	0.028	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.17	0.022	mg/kg	
100-02-7	4-Nitrophenol [b]	ND	0.34	0.090	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.13	0.032	mg/kg	
108-95-2	Phenol [a]	ND	0.067	0.018	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.17	0.022	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.17	0.025	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.17	0.020	mg/kg	
83-32-9	Acenaphthene	ND	0.034	0.012	mg/kg	
208-96-8	Acenaphthylene	ND	0.034	0.017	mg/kg	
98-86-2	Acetophenone	ND	0.17	0.0072	mg/kg	
120-12-7	Anthracene	ND	0.034	0.021	mg/kg	
1912-24-9	Atrazine [a]	ND	0.067	0.014	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.034	0.0095	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.034	0.015	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.034	0.015	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.034	0.017	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.034	0.016	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.067	0.013	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.067	0.0082	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.067	0.0046	mg/kg	
100-52-7	Benzaldehyde	ND	0.17	0.0083	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.067	0.0080	mg/kg	
106-47-8	4-Chloroaniline	ND	0.17	0.012	mg/kg	
86-74-8	Carbazole	ND	0.067	0.0049	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-14A		
Lab Sample ID:	JD91204-8	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	96.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.067	0.013	mg/kg	
218-01-9	Chrysene	ND	0.034	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.067	0.0072	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.067	0.014	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.067	0.012	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.067	0.011	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.034	0.010	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.034	0.017	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.067	0.028	mg/kg	
123-91-1	1,4-Dioxane	ND	0.034	0.022	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.034	0.015	mg/kg	
132-64-9	Dibenzofuran	ND	0.067	0.014	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.067	0.0055	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.067	0.0084	mg/kg	
84-66-2	Diethyl phthalate	ND	0.067	0.0072	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.067	0.0060	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.067	0.0079	mg/kg	
206-44-0	Fluoranthene	ND	0.034	0.015	mg/kg	
86-73-7	Fluorene	ND	0.034	0.015	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.067	0.0085	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.034	0.014	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.34	0.013	mg/kg	
67-72-1	Hexachloroethane	ND	0.17	0.017	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.034	0.016	mg/kg	
78-59-1	Isophorone	ND	0.067	0.0072	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.034	0.0076	mg/kg	
88-74-4	2-Nitroaniline	ND	0.17	0.0079	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.17	0.0084	mg/kg	
100-01-6	4-Nitroaniline	ND	0.17	0.0087	mg/kg	
91-20-3	Naphthalene	ND	0.034	0.0095	mg/kg	
98-95-3	Nitrobenzene	ND	0.067	0.013	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.067	0.0097	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.17	0.012	mg/kg	
85-01-8	Phenanthrene	ND	0.034	0.011	mg/kg	
129-00-0	Pyrene	ND	0.034	0.011	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.17	0.0085	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-14A		
Lab Sample ID:	JD91204-8	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	96.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	58%		10-96%
118-79-6	2,4,6-Tribromophenol	67%		10-123%
4165-60-0	Nitrobenzene-d5	55%		10-109%
321-60-8	2-Fluorobiphenyl	63%		11-109%
1718-51-0	Terphenyl-d14	65%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.55	.24	mg/kg	J
	Unknown	4.94	.21	mg/kg	J
	Unknown alcohol	10.58	.39	mg/kg	J
	Alkane	11.08	.37	mg/kg	J
	Unknown alcohol	11.17	.49	mg/kg	J
	Unknown	11.43	.14	mg/kg	J
	Unknown alcohol	11.51	.37	mg/kg	J
	Alkane	11.67	.46	mg/kg	J
	Unknown	11.75	.15	mg/kg	J
	Unknown alcohol	11.81	.15	mg/kg	J
	Unknown alcohol	11.83	.21	mg/kg	J
	Unknown alcohol	12.21	.37	mg/kg	J
	Alkane	12.41	.17	mg/kg	J
	Unknown	12.53	.16	mg/kg	J
	Sitosterol	12.75	.25	mg/kg	J
	Unknown alcohol	13.13	.2	mg/kg	J
	Total TIC, Semi-Volatile		4.33	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-14A		
Lab Sample ID:	JD91204-8	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	96.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G138865.D	1	07/01/24 04:40	CP	06/29/24 14:50	OP55761	G5G3659
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00040	0.000078	mg/kg	
319-84-6	alpha-BHC	ND	0.00040	0.000046	mg/kg	
319-85-7	beta-BHC	ND	0.00040	0.000058	mg/kg	
319-86-8	delta-BHC	ND	0.00040	0.000060	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00040	0.000070	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.00040	0.000054	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.00040	0.000060	mg/kg	
57-74-9	Chlordane (alpha and gamma)	ND	0.00040	0.000054	mg/kg	
60-57-1	Dieldrin	ND	0.00040	0.000064	mg/kg	
72-54-8	4,4'-DDD	ND	0.00040	0.000042	mg/kg	
72-55-9	4,4'-DDE [a]	0.000081	0.00040	0.000048	mg/kg	J
50-29-3	4,4'-DDT	0.00015	0.00040	0.000070	mg/kg	J
72-20-8	Endrin	ND	0.00040	0.000058	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00040	0.000048	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00040	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00040	0.000054	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00040	0.000056	mg/kg	
76-44-8	Heptachlor	ND	0.00040	0.000052	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00040	0.000072	mg/kg	
72-43-5	Methoxychlor	ND	0.00040	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00040	0.000064	mg/kg	
8001-35-2	Toxaphene	ND	0.0050	0.0033	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	60%		46-145%
877-09-8	Tetrachloro-m-xylene	77%		46-145%
2051-24-3	Decachlorobiphenyl	56%		29-163%
2051-24-3	Decachlorobiphenyl	64%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-14A		
Lab Sample ID:	JD91204-8	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	96.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL17983.D	1	07/01/24 05:08	CP	06/29/24 14:50	OP55762	GRL399
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.020	0.0085	mg/kg	
11104-28-2	Aroclor 1221	ND	0.020	0.0067	mg/kg	
11141-16-5	Aroclor 1232	ND	0.020	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.020	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.020	0.0043	mg/kg	
11097-69-1	Aroclor 1254	ND	0.020	0.0022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.020	0.0069	mg/kg	
11100-14-4	Aroclor 1268	ND	0.020	0.0020	mg/kg	
37324-23-5	Aroclor 1262	ND	0.020	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		42-159%
877-09-8	Tetrachloro-m-xylene	97%		42-159%
2051-24-3	Decachlorobiphenyl	82%		18-154%
2051-24-3	Decachlorobiphenyl	91%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-14A		
Lab Sample ID:	JD91204-8	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	96.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	8470	51	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.0	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	3.2	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	< 20	20	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.29	0.20	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.51	0.51	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	< 510	510	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	8.8	1.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.1	5.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	6.9	2.5	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	12000	51	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	14.5	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1560	510	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	256	1.5	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.052	0.029	mg/kg	1	06/28/24	07/01/24	MK	SW846 7471B [1]	SW846 7471B [4]
Nickel	8.1	4.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1000	1000	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.0	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.51	0.51	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1000	1000	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	14.1	5.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	28.1	5.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56369
(2) Instrument QC Batch: MA56387
(3) Prep QC Batch: MP47572
(4) Prep QC Batch: MP47595

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-14A		
Lab Sample ID:	JD91204-8	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	96.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.46	0.43	mg/kg	1	07/01/24 17:14	RI	SW846 3060A/7196A
Cyanide	< 0.23	0.23	mg/kg	1	06/28/24 18:03	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	437		mv	1	06/28/24 14:41	MM	ASTM D1498-76M
Solids, Percent	96.2		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	3.29 NC		su	1	06/28/24 14:11	MM	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-15		
Lab Sample ID:	JD91204-9	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	88.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ8016.D	1	07/01/24 21:49	KM	06/30/24 17:15	OP55759	ECJ348
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol [a]	ND	0.073	0.018	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.18	0.022	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.18	0.031	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.18	0.065	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.18	0.14	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.18	0.039	mg/kg	
95-48-7	2-Methylphenol [a]	ND	0.073	0.023	mg/kg	
	3&4-Methylphenol	ND	0.073	0.030	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.18	0.024	mg/kg	
100-02-7	4-Nitrophenol [b]	ND	0.37	0.098	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.15	0.034	mg/kg	
108-95-2	Phenol [a]	ND	0.073	0.019	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.18	0.024	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.18	0.027	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.18	0.022	mg/kg	
83-32-9	Acenaphthene	0.0523	0.037	0.013	mg/kg	
208-96-8	Acenaphthylene	0.171	0.037	0.019	mg/kg	
98-86-2	Acetophenone	0.0108	0.18	0.0079	mg/kg	J
120-12-7	Anthracene	0.248	0.037	0.022	mg/kg	
1912-24-9	Atrazine [a]	ND	0.073	0.016	mg/kg	
56-55-3	Benzo(a)anthracene	0.498	0.037	0.010	mg/kg	
50-32-8	Benzo(a)pyrene	0.493	0.037	0.017	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.597	0.037	0.016	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.323	0.037	0.018	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.210	0.037	0.017	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.073	0.014	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.073	0.0090	mg/kg	
92-52-4	1,1'-Biphenyl	0.0128	0.073	0.0050	mg/kg	J
100-52-7	Benzaldehyde	0.0299	0.18	0.0091	mg/kg	J
91-58-7	2-Chloronaphthalene	ND	0.073	0.0087	mg/kg	
106-47-8	4-Chloroaniline	ND	0.18	0.013	mg/kg	
86-74-8	Carbazole	0.0529	0.073	0.0053	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-15		
Lab Sample ID:	JD91204-9	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	88.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.073	0.014	mg/kg	
218-01-9	Chrysene	0.590	0.037	0.012	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.073	0.0079	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.073	0.016	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.073	0.013	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.073	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.037	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.037	0.018	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.073	0.031	mg/kg	
123-91-1	1,4-Dioxane	ND	0.037	0.024	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0983	0.037	0.016	mg/kg	
132-64-9	Dibenzofuran	0.0253	0.073	0.015	mg/kg	J
84-74-2	Di-n-butyl phthalate	0.0096	0.073	0.0060	mg/kg	J
117-84-0	Di-n-octyl phthalate	ND	0.073	0.0091	mg/kg	
84-66-2	Diethyl phthalate	ND	0.073	0.0078	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.073	0.0065	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0338	0.073	0.0086	mg/kg	J
206-44-0	Fluoranthene	1.11	0.037	0.016	mg/kg	
86-73-7	Fluorene	0.0733	0.037	0.017	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.073	0.0093	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.037	0.015	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.37	0.015	mg/kg	
67-72-1	Hexachloroethane	ND	0.18	0.018	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.244	0.037	0.017	mg/kg	
78-59-1	Isophorone	ND	0.073	0.0079	mg/kg	
91-57-6	2-Methylnaphthalene	0.0312	0.037	0.0083	mg/kg	J
88-74-4	2-Nitroaniline	ND	0.18	0.0087	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.18	0.0092	mg/kg	
100-01-6	4-Nitroaniline	ND	0.18	0.0095	mg/kg	
91-20-3	Naphthalene	0.0510	0.037	0.010	mg/kg	
98-95-3	Nitrobenzene	ND	0.073	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.073	0.011	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.18	0.013	mg/kg	
85-01-8	Phenanthrene	0.730	0.037	0.012	mg/kg	
129-00-0	Pyrene	1.11	0.037	0.012	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.18	0.0093	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-15		
Lab Sample ID:	JD91204-9	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	88.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	43%		10-96%
118-79-6	2,4,6-Tribromophenol	48%		10-123%
4165-60-0	Nitrobenzene-d5	41%		10-109%
321-60-8	2-Fluorobiphenyl	48%		11-109%
1718-51-0	Terphenyl-d14	48%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.54	.32	mg/kg	J
	Unknown	4.57	.21	mg/kg	J
	Pyrene methyl	9.13	.25	mg/kg	J
	Pyrene methyl	9.22	.27	mg/kg	J
	Unknown	9.89	.41	mg/kg	J
	Unknown alcohol	10.53	.89	mg/kg	J
	Alkane	11.09	1.1	mg/kg	J
	Unknown alcohol	11.12	1.6	mg/kg	J
	Unknown alcohol	11.52	1.9	mg/kg	J
	Alkane	11.69	1.9	mg/kg	J
	Unknown alcohol	11.74	1.1	mg/kg	J
59-02-9	Vitamin E	11.85	.3	mg/kg	JN
	Unknown alcohol	12.13	.24	mg/kg	J
	Unknown alcohol	12.23	1.1	mg/kg	J
	Alkane	12.43	1.1	mg/kg	J
	Unknown alcohol	12.54	1.4	mg/kg	J
	Sitosterol	12.72	.99	mg/kg	J
	Unknown PAH substance	12.80	.53	mg/kg	J
	Unknown	12.90	.21	mg/kg	J
	Unknown	13.03	.41	mg/kg	J
	Unknown alcohol	13.15	.48	mg/kg	J
	Unknown	13.25	.41	mg/kg	J
	Unknown	13.36	.45	mg/kg	J
	Unknown alcohol	13.59	.66	mg/kg	J
	Dibenzopyrene	14.13	.2	mg/kg	J
	Total TIC, Semi-Volatile		18.43	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-15		
Lab Sample ID:	JD91204-9	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	88.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5G138915.D	1	07/02/24 10:20	CP	06/29/24 14:50	OP55761	G5G3661
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00044	0.000086	mg/kg	
319-84-6	alpha-BHC	ND	0.00044	0.000051	mg/kg	
319-85-7	beta-BHC	ND	0.00044	0.000064	mg/kg	
319-86-8	delta-BHC	ND	0.00044	0.000066	mg/kg	
58-89-9	gamma-BHC (Lindane) [b]	0.00022	0.00044	0.000078	mg/kg	J
5103-71-9	alpha-Chlordane [b]	0.0015	0.00044	0.000060	mg/kg	
5103-74-2	gamma-Chlordane [b]	0.00086	0.00044	0.000066	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0024	0.00044	0.000060	mg/kg	
60-57-1	Dieldrin	0.00093	0.00044	0.000071	mg/kg	
72-54-8	4,4'-DDD	0.0016	0.00044	0.000047	mg/kg	
72-55-9	4,4'-DDE [b]	0.0101	0.00044	0.000053	mg/kg	
50-29-3	4,4'-DDT	0.0174	0.00044	0.000078	mg/kg	
72-20-8	Endrin	ND	0.00044	0.000064	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00044	0.000053	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00044	0.00013	mg/kg	
959-98-8	Endosulfan-I	ND	0.00044	0.000060	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00044	0.000062	mg/kg	
76-44-8	Heptachlor	ND	0.00044	0.000058	mg/kg	
1024-57-3	Heptachlor epoxide	0.00078	0.00044	0.000080	mg/kg	
72-43-5	Methoxychlor	ND	0.00044	0.00018	mg/kg	
53494-70-5	Endrin ketone	ND	0.00044	0.000071	mg/kg	
8001-35-2	Toxaphene	ND	0.0055	0.0037	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	51%		46-145%
877-09-8	Tetrachloro-m-xylene	54%		46-145%
2051-24-3	Decachlorobiphenyl	805% [c]		29-163%
2051-24-3	Decachlorobiphenyl	207% [c]		29-163%

(a) Had TBA cleanup.
(b) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-15		
Lab Sample ID:	JD91204-9	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	88.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-15		
Lab Sample ID:	JD91204-9	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	88.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL17984.D	1	07/01/24 05:25	CP	06/29/24 14:50	OP55762	GRL399
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.022	0.0094	mg/kg	
11104-28-2	Aroclor 1221	ND	0.022	0.0074	mg/kg	
11141-16-5	Aroclor 1232	ND	0.022	0.018	mg/kg	
53469-21-9	Aroclor 1242	ND	0.022	0.013	mg/kg	
12672-29-6	Aroclor 1248	ND	0.022	0.0048	mg/kg	
11097-69-1	Aroclor 1254	ND	0.022	0.0024	mg/kg	
11096-82-5	Aroclor 1260	ND	0.022	0.0076	mg/kg	
11100-14-4	Aroclor 1268	ND	0.022	0.0022	mg/kg	
37324-23-5	Aroclor 1262	0.0149	0.022	0.0018	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		42-159%
877-09-8	Tetrachloro-m-xylene	113%		42-159%
2051-24-3	Decachlorobiphenyl	116%		18-154%
2051-24-3	Decachlorobiphenyl	135%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-15		
Lab Sample ID:	JD91204-9	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	88.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	8110	54	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.2	2.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	5.5	2.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	44.8	22	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.39	0.22	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.54	0.54	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	1900	540	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	9.5	1.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.4	5.4	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	21.6	2.7	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	11500	54	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	117	2.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1440	540	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	459	1.6	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.18	0.029	mg/kg	1	06/28/24	07/01/24	MK	SW846 7471B [1]	SW846 7471B [4]
Nickel	8.2	4.3	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.54	0.54	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	19.9	5.4	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	63.2	5.4	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56369
(2) Instrument QC Batch: MA56387
(3) Prep QC Batch: MP47572
(4) Prep QC Batch: MP47595

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-15		
Lab Sample ID:	JD91204-9	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	88.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.44	0.44	mg/kg	1	07/01/24 17:14	RI	SW846 3060A/7196A
Cyanide	< 0.26	0.26	mg/kg	1	06/28/24 18:04	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	408		mv	1	06/28/24 14:45	MM	ASTM D1498-76M
Solids, Percent	88.5		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	4.75 NC		su	1	06/28/24 14:13	MM	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-2		
Lab Sample ID:	JD91204-10	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ8009.D	1	07/01/24 19:38	KM	06/30/24 17:15	OP55759	ECJ348
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol [a]	ND	0.072	0.018	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.18	0.022	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.18	0.031	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.18	0.064	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.18	0.14	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.18	0.039	mg/kg	
95-48-7	2-Methylphenol [a]	ND	0.072	0.023	mg/kg	
	3&4-Methylphenol	ND	0.072	0.030	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.18	0.024	mg/kg	
100-02-7	4-Nitrophenol [b]	ND	0.36	0.096	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.14	0.034	mg/kg	
108-95-2	Phenol [a]	ND	0.072	0.019	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.18	0.024	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.18	0.027	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.18	0.022	mg/kg	
83-32-9	Acenaphthene	0.0563	0.036	0.012	mg/kg	
208-96-8	Acenaphthylene	0.0517	0.036	0.018	mg/kg	
98-86-2	Acetophenone	0.0088	0.18	0.0078	mg/kg	J
120-12-7	Anthracene	0.124	0.036	0.022	mg/kg	
1912-24-9	Atrazine [a]	ND	0.072	0.015	mg/kg	
56-55-3	Benzo(a)anthracene	0.477	0.036	0.010	mg/kg	
50-32-8	Benzo(a)pyrene	0.500	0.036	0.016	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.696	0.036	0.016	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.370	0.036	0.018	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.223	0.036	0.017	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.072	0.014	mg/kg	
85-68-7	Butyl benzyl phthalate [c]	0.0158	0.072	0.0088	mg/kg	J
92-52-4	1,1'-Biphenyl	0.0082	0.072	0.0049	mg/kg	J
100-52-7	Benzaldehyde	0.0254	0.18	0.0090	mg/kg	J
91-58-7	2-Chloronaphthalene	ND	0.072	0.0086	mg/kg	
106-47-8	4-Chloroaniline	ND	0.18	0.013	mg/kg	
86-74-8	Carbazole	0.0760	0.072	0.0052	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-2		
Lab Sample ID:	JD91204-10	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.072	0.014	mg/kg	
218-01-9	Chrysene	0.584	0.036	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.072	0.0077	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.072	0.016	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.072	0.013	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.072	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.036	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.036	0.018	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.072	0.030	mg/kg	
123-91-1	1,4-Dioxane	ND	0.036	0.024	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0983	0.036	0.016	mg/kg	
132-64-9	Dibenzofuran	0.0209	0.072	0.015	mg/kg	J
84-74-2	Di-n-butyl phthalate	0.0129	0.072	0.0059	mg/kg	J
117-84-0	Di-n-octyl phthalate	ND	0.072	0.0090	mg/kg	
84-66-2	Diethyl phthalate	ND	0.072	0.0077	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.072	0.0064	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0659	0.072	0.0084	mg/kg	J
206-44-0	Fluoranthene	1.29	0.036	0.016	mg/kg	
86-73-7	Fluorene	0.0483	0.036	0.017	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.072	0.0091	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.036	0.015	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.36	0.014	mg/kg	
67-72-1	Hexachloroethane	ND	0.18	0.018	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.297	0.036	0.017	mg/kg	
78-59-1	Isophorone	ND	0.072	0.0077	mg/kg	
91-57-6	2-Methylnaphthalene	0.0255	0.036	0.0082	mg/kg	J
88-74-4	2-Nitroaniline	ND	0.18	0.0085	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.18	0.0090	mg/kg	
100-01-6	4-Nitroaniline	ND	0.18	0.0094	mg/kg	
91-20-3	Naphthalene	0.120	0.036	0.010	mg/kg	
98-95-3	Nitrobenzene	ND	0.072	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.072	0.010	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.18	0.013	mg/kg	
85-01-8	Phenanthrene	0.693	0.036	0.012	mg/kg	
129-00-0	Pyrene	1.09	0.036	0.012	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.18	0.0092	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-2		
Lab Sample ID:	JD91204-10	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	39%		10-96%
118-79-6	2,4,6-Tribromophenol	45%		10-123%
4165-60-0	Nitrobenzene-d5	38%		10-109%
321-60-8	2-Fluorobiphenyl	42%		11-109%
1718-51-0	Terphenyl-d14	42%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.54	.54	mg/kg	J
	Unknown	9.89	.87	mg/kg	J
	Unknown acid	10.10	.35	mg/kg	J
	Unknown alcohol	10.52	2.2	mg/kg	J
	Unknown acid	10.72	.39	mg/kg	J
	Alkane	11.09	1.5	mg/kg	J
	Unknown alcohol	11.12	2	mg/kg	J
	Alkane	11.37	.51	mg/kg	J
	Unknown alcohol	11.44	.39	mg/kg	J
	Unknown alcohol	11.51	1.6	mg/kg	J
7616-22-0	.gamma.-Tocopherol	11.59	.34	mg/kg	JN
	Alkane	11.69	2.8	mg/kg	J
	Unknown alcohol	11.73	.97	mg/kg	J
	Unknown alcohol	11.76	.76	mg/kg	J
	Unknown	11.84	.59	mg/kg	J
	Unknown alcohol	12.12	.55	mg/kg	J
	Unknown alcohol	12.22	1.5	mg/kg	J
	Alkane	12.43	1.3	mg/kg	J
	Unknown alcohol	12.51	.59	mg/kg	J
	Unknown alcohol	12.54	.88	mg/kg	J
	Sitosterol	12.70	.71	mg/kg	J
	Unknown	13.02	.35	mg/kg	J
	Unknown alcohol	13.15	1	mg/kg	J
	Unknown	13.35	.45	mg/kg	J
	Unknown alcohol	13.58	.93	mg/kg	J
	Total TIC, Semi-Volatile		24.07	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
(c) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-2		
Lab Sample ID:	JD91204-10	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	90.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G138867.D	1	07/01/24 05:22	CP	06/29/24 14:50	OP55761	G5G3659
Run #2	5G138911.D	20	07/02/24 08:56	CP	06/29/24 14:50	OP55761	G5G3661

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2	5.4 g	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00041	0.000080	mg/kg	
319-84-6	alpha-BHC	ND	0.00041	0.000047	mg/kg	
319-85-7	beta-BHC	ND	0.00041	0.000059	mg/kg	
319-86-8	delta-BHC	ND	0.00041	0.000061	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00041	0.000072	mg/kg	
5103-71-9	alpha-Chlordane [a]	0.0018	0.00041	0.000055	mg/kg	
5103-74-2	gamma-Chlordane	0.0012	0.00041	0.000061	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0030	0.00041	0.000055	mg/kg	
60-57-1	Dieldrin [a]	0.0011	0.00041	0.000065	mg/kg	
72-54-8	4,4'-DDD	0.0083	0.00041	0.000043	mg/kg	
72-55-9	4,4'-DDE	0.0898 [b]	0.0082	0.00098	mg/kg	
50-29-3	4,4'-DDT	0.165 [b]	0.0082	0.0014	mg/kg	
72-20-8	Endrin	ND	0.00041	0.000059	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00041	0.000049	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00041	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00041	0.000055	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00041	0.000057	mg/kg	
76-44-8	Heptachlor	ND	0.00041	0.000053	mg/kg	
1024-57-3	Heptachlor epoxide [a]	0.0013	0.00041	0.000074	mg/kg	
72-43-5	Methoxychlor	ND	0.00041	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00041	0.000065	mg/kg	
8001-35-2	Toxaphene	ND	0.0051	0.0034	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	50%	78%	46-145%
877-09-8	Tetrachloro-m-xylene	54%	83%	46-145%
2051-24-3	Decachlorobiphenyl	602% [c]	236% [c]	29-163%
2051-24-3	Decachlorobiphenyl	153%	91%	29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-2		
Lab Sample ID:	JD91204-10	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	90.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-2		
Lab Sample ID:	JD91204-10	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	90.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL17985.D	1	07/01/24 05:42	CP	06/29/24 14:50	OP55762	GRL399
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.020	0.0087	mg/kg	
11104-28-2	Aroclor 1221	ND	0.020	0.0069	mg/kg	
11141-16-5	Aroclor 1232	ND	0.020	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.020	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.020	0.0044	mg/kg	
11097-69-1	Aroclor 1254	ND	0.020	0.0022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.020	0.0071	mg/kg	
11100-14-4	Aroclor 1268	ND	0.020	0.0021	mg/kg	
37324-23-5	Aroclor 1262	ND	0.020	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		42-159%
877-09-8	Tetrachloro-m-xylene	102%		42-159%
2051-24-3	Decachlorobiphenyl	90%		18-154%
2051-24-3	Decachlorobiphenyl	104%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-2
Lab Sample ID: JD91204-10
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/26/24
Date Received: 06/26/24
Percent Solids: 90.5

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	9520	53	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.1	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	8.8	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	29.5	21	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.34	0.21	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.53	0.53	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	< 530	530	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	11.8	1.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.3	5.3	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	17.0	2.7	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	14400	53	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	101	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1550	530	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	233	1.6	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.24	0.029	mg/kg	1	06/28/24	07/01/24	MK	SW846 7471B [1]	SW846 7471B [4]
Nickel	9.0	4.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.53	0.53	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	25.3	5.3	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	36.4	5.3	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56369
(2) Instrument QC Batch: MA56387
(3) Prep QC Batch: MP47572
(4) Prep QC Batch: MP47595

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-2		
Lab Sample ID:	JD91204-10	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	90.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.43	0.43	mg/kg	1	07/01/24 17:14	RI	SW846 3060A/7196A
Cyanide	< 0.25	0.25	mg/kg	1	06/28/24 18:05	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	416		mv	1	06/28/24 14:56	MM	ASTM D1498-76M
Solids, Percent	90.5		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	3.62 NC		su	1	06/28/24 14:19	MM	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-19		
Lab Sample ID:	JD91204-11	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	95.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ8017.D	1	07/01/24 22:08	KM	06/30/24 17:15	OP55759	ECJ348
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol [a]	ND	0.069	0.017	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.17	0.021	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.17	0.029	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.17	0.061	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.17	0.13	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.17	0.037	mg/kg	
95-48-7	2-Methylphenol [a]	ND	0.069	0.022	mg/kg	
	3&4-Methylphenol	ND	0.069	0.028	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.17	0.023	mg/kg	
100-02-7	4-Nitrophenol [b]	ND	0.35	0.092	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.14	0.032	mg/kg	
108-95-2	Phenol [a]	ND	0.069	0.018	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.17	0.023	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.17	0.026	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.17	0.021	mg/kg	
83-32-9	Acenaphthene	0.0265	0.035	0.012	mg/kg	J
208-96-8	Acenaphthylene	0.0454	0.035	0.018	mg/kg	
98-86-2	Acetophenone	ND	0.17	0.0074	mg/kg	
120-12-7	Anthracene	0.0843	0.035	0.021	mg/kg	
1912-24-9	Atrazine [a]	ND	0.069	0.015	mg/kg	
56-55-3	Benzo(a)anthracene	0.292	0.035	0.0098	mg/kg	
50-32-8	Benzo(a)pyrene	0.321	0.035	0.016	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.393	0.035	0.015	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.221	0.035	0.017	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.120	0.035	0.016	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.069	0.013	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.069	0.0084	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.069	0.0047	mg/kg	
100-52-7	Benzaldehyde	ND	0.17	0.0086	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.069	0.0082	mg/kg	
106-47-8	4-Chloroaniline	ND	0.17	0.012	mg/kg	
86-74-8	Carbazole	0.0214	0.069	0.0050	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-19		
Lab Sample ID:	JD91204-11	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	95.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.069	0.014	mg/kg	
218-01-9	Chrysene	0.284	0.035	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.069	0.0074	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.069	0.015	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.069	0.012	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.069	0.011	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.035	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.035	0.017	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.069	0.029	mg/kg	
123-91-1	1,4-Dioxane	ND	0.035	0.023	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0622	0.035	0.015	mg/kg	
132-64-9	Dibenzofuran	ND	0.069	0.014	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.069	0.0056	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.069	0.0086	mg/kg	
84-66-2	Diethyl phthalate	ND	0.069	0.0074	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.069	0.0061	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.069	0.0081	mg/kg	
206-44-0	Fluoranthene	0.582	0.035	0.015	mg/kg	
86-73-7	Fluorene	0.0270	0.035	0.016	mg/kg	J
118-74-1	Hexachlorobenzene	ND	0.069	0.0087	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.035	0.014	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.35	0.014	mg/kg	
67-72-1	Hexachloroethane	ND	0.17	0.017	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.174	0.035	0.016	mg/kg	
78-59-1	Isophorone	ND	0.069	0.0074	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.035	0.0078	mg/kg	
88-74-4	2-Nitroaniline	ND	0.17	0.0081	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.17	0.0086	mg/kg	
100-01-6	4-Nitroaniline	ND	0.17	0.0089	mg/kg	
91-20-3	Naphthalene	ND	0.035	0.0097	mg/kg	
98-95-3	Nitrobenzene	ND	0.069	0.013	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.069	0.010	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.17	0.013	mg/kg	
85-01-8	Phenanthrene	0.268	0.035	0.012	mg/kg	
129-00-0	Pyrene	0.553	0.035	0.011	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.17	0.0088	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	19%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-19		
Lab Sample ID:	JD91204-11	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	95.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	19%		10-96%
118-79-6	2,4,6-Tribromophenol	22%		10-123%
4165-60-0	Nitrobenzene-d5	28%		10-109%
321-60-8	2-Fluorobiphenyl	31%		11-109%
1718-51-0	Terphenyl-d14	31%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Alkane	11.08	.27	mg/kg	J
	Unknown alcohol	11.13	.27	mg/kg	J
	Alkane	11.37	.18	mg/kg	J
	Unknown	11.45	.17	mg/kg	J
	Unknown alcohol	11.51	.36	mg/kg	J
	Alkane	11.68	.33	mg/kg	J
	Unknown alcohol	11.76	.21	mg/kg	J
	Unknown alcohol	12.22	.2	mg/kg	J
	Unknown PAH substance	12.44	.14	mg/kg	J
	Sitosterol	12.72	.2	mg/kg	J
	Unknown	13.01	.17	mg/kg	J
	Unknown alcohol	13.15	.15	mg/kg	J
	Unknown	13.98	.17	mg/kg	J
	Dibenzopyrene	14.13	.15	mg/kg	J
	Total TIC, Semi-Volatile		2.97	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-19		
Lab Sample ID:	JD91204-11	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	95.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G138868.D	1	07/01/24 05:43	CP	06/29/24 14:50	OP55761	G5G3659
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00039	0.000077	mg/kg	
319-84-6	alpha-BHC	ND	0.00039	0.000045	mg/kg	
319-85-7	beta-BHC	ND	0.00039	0.000057	mg/kg	
319-86-8	delta-BHC	ND	0.00039	0.000059	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00039	0.000069	mg/kg	
5103-71-9	alpha-Chlordane [a]	0.0052	0.00039	0.000053	mg/kg	
5103-74-2	gamma-Chlordane [a]	0.0026	0.00039	0.000059	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0078	0.00039	0.000053	mg/kg	
60-57-1	Dieldrin	0.0012	0.00039	0.000063	mg/kg	
72-54-8	4,4'-DDD	0.00098	0.00039	0.000041	mg/kg	
72-55-9	4,4'-DDE	0.0053	0.00039	0.000047	mg/kg	
50-29-3	4,4'-DDT	0.0063	0.00039	0.000069	mg/kg	
72-20-8	Endrin	ND	0.00039	0.000057	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00039	0.000047	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00039	0.00011	mg/kg	
959-98-8	Endosulfan-I	ND	0.00039	0.000053	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00039	0.000055	mg/kg	
76-44-8	Heptachlor	ND	0.00039	0.000051	mg/kg	
1024-57-3	Heptachlor epoxide [a]	0.00060	0.00039	0.000071	mg/kg	
72-43-5	Methoxychlor	ND	0.00039	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00039	0.000063	mg/kg	
8001-35-2	Toxaphene	ND	0.0049	0.0033	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	39% [b]		46-145%
877-09-8	Tetrachloro-m-xylene	59%		46-145%
2051-24-3	Decachlorobiphenyl	378% [b]		29-163%
2051-24-3	Decachlorobiphenyl	189% [b]		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-19		
Lab Sample ID:	JD91204-11	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	95.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL17986.D	1	07/01/24 05:59	CP	06/29/24 14:50	OP55762	GRL399
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.020	0.0084	mg/kg	
11104-28-2	Aroclor 1221	ND	0.020	0.0066	mg/kg	
11141-16-5	Aroclor 1232	ND	0.020	0.016	mg/kg	
53469-21-9	Aroclor 1242	ND	0.020	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.020	0.0043	mg/kg	
11097-69-1	Aroclor 1254	ND	0.020	0.0021	mg/kg	
11096-82-5	Aroclor 1260	ND	0.020	0.0068	mg/kg	
11100-14-4	Aroclor 1268	ND	0.020	0.0020	mg/kg	
37324-23-5	Aroclor 1262	0.0117	0.020	0.0016	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		42-159%
877-09-8	Tetrachloro-m-xylene	100%		42-159%
2051-24-3	Decachlorobiphenyl	172% [a]		18-154%
2051-24-3	Decachlorobiphenyl	193% [a]		18-154%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-19
Lab Sample ID: JD91204-11
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/26/24
Date Received: 06/26/24
Percent Solids: 95.6

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5610	50	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.0	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	3.7	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	34.8	20	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.23	0.20	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.50	0.50	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	1810	500	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	9.6	1.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.0	5.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	16.0	2.5	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	10500	50	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	44.8	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1750	500	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	223	1.5	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.071	0.032	mg/kg	1	06/28/24	07/01/24	MK	SW846 7471B [1]	SW846 7471B [4]
Nickel	7.6	4.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1000	1000	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.0	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.50	0.50	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1000	1000	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	15.0	5.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	47.0	5.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56369
(2) Instrument QC Batch: MA56387
(3) Prep QC Batch: MP47572
(4) Prep QC Batch: MP47595

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-19		
Lab Sample ID:	JD91204-11	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	95.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.43	0.43	mg/kg	1	07/01/24 17:14	RI	SW846 3060A/7196A
Cyanide	0.26	0.23	mg/kg	1	06/28/24 18:06	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	361		mv	1	06/28/24 15:00	MM	ASTM D1498-76M
Solids, Percent	95.6		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	5.77 NC		su	1	06/28/24 14:20	MM	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-13		
Lab Sample ID:	JD91204-12	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	94.0
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ7997.D	1	07/01/24 15:54	KM	06/30/24 17:15	OP55759	ECJ348
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol [a]	ND	0.069	0.017	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.17	0.021	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.17	0.030	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.17	0.062	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.17	0.13	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.17	0.037	mg/kg	
95-48-7	2-Methylphenol [a]	ND	0.069	0.022	mg/kg	
	3&4-Methylphenol	ND	0.069	0.028	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.17	0.023	mg/kg	
100-02-7	4-Nitrophenol [b]	ND	0.35	0.093	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.14	0.033	mg/kg	
108-95-2	Phenol [a]	ND	0.069	0.018	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.17	0.023	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.17	0.026	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.17	0.021	mg/kg	
83-32-9	Acenaphthene	ND	0.035	0.012	mg/kg	
208-96-8	Acenaphthylene	0.0245	0.035	0.018	mg/kg	J
98-86-2	Acetophenone	ND	0.17	0.0075	mg/kg	
120-12-7	Anthracene	0.0333	0.035	0.021	mg/kg	J
1912-24-9	Atrazine [a]	ND	0.069	0.015	mg/kg	
56-55-3	Benzo(a)anthracene	0.168	0.035	0.0098	mg/kg	
50-32-8	Benzo(a)pyrene	0.177	0.035	0.016	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.231	0.035	0.015	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.127	0.035	0.017	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0638	0.035	0.016	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.069	0.013	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.069	0.0085	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.069	0.0047	mg/kg	
100-52-7	Benzaldehyde	ND	0.17	0.0086	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.069	0.0082	mg/kg	
106-47-8	4-Chloroaniline	ND	0.17	0.012	mg/kg	
86-74-8	Carbazole	0.0108	0.069	0.0050	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-13		
Lab Sample ID:	JD91204-12	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	94.0
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.069	0.014	mg/kg	
218-01-9	Chrysene	0.159	0.035	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.069	0.0074	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.069	0.015	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.069	0.012	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.069	0.011	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.035	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.035	0.017	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.069	0.029	mg/kg	
123-91-1	1,4-Dioxane	ND	0.035	0.023	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0310	0.035	0.015	mg/kg	J
132-64-9	Dibenzofuran	ND	0.069	0.014	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.069	0.0056	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.069	0.0086	mg/kg	
84-66-2	Diethyl phthalate	ND	0.069	0.0074	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.069	0.0062	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0136	0.069	0.0081	mg/kg	J
206-44-0	Fluoranthene	0.317	0.035	0.015	mg/kg	
86-73-7	Fluorene	ND	0.035	0.016	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.069	0.0088	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.035	0.014	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.35	0.014	mg/kg	
67-72-1	Hexachloroethane	ND	0.17	0.017	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.102	0.035	0.016	mg/kg	
78-59-1	Isophorone	ND	0.069	0.0074	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.035	0.0078	mg/kg	
88-74-4	2-Nitroaniline	ND	0.17	0.0082	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.17	0.0087	mg/kg	
100-01-6	4-Nitroaniline	ND	0.17	0.0090	mg/kg	
91-20-3	Naphthalene	ND	0.035	0.0098	mg/kg	
98-95-3	Nitrobenzene	ND	0.069	0.013	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.069	0.010	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.17	0.013	mg/kg	
85-01-8	Phenanthrene	0.128	0.035	0.012	mg/kg	
129-00-0	Pyrene	0.310	0.035	0.011	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.17	0.0088	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	15%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-13		
Lab Sample ID:	JD91204-12	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	94.0
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	17%		10-96%
118-79-6	2,4,6-Tribromophenol	22%		10-123%
4165-60-0	Nitrobenzene-d5	20%		10-109%
321-60-8	2-Fluorobiphenyl	25%		11-109%
1718-51-0	Terphenyl-d14	26%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown alcohol	10.57	.23	mg/kg	J
	Alkane	11.08	.62	mg/kg	J
	Alkane	11.36	.17	mg/kg	J
	Unknown	11.45	.18	mg/kg	J
	Unknown alcohol	11.51	.43	mg/kg	J
	Alkane	11.68	1.2	mg/kg	J
	Unknown alcohol	12.21	.33	mg/kg	J
	Alkane	12.42	.52	mg/kg	J
	Unknown alcohol	12.53	.19	mg/kg	J
	Sitosterol	12.75	.38	mg/kg	J
	Unknown	13.00	.16	mg/kg	J
	Unknown	13.14	.21	mg/kg	J
	Unknown	13.33	.19	mg/kg	J
	Unknown	13.57	.18	mg/kg	J
	Unknown	13.96	.14	mg/kg	J
	Total TIC, Semi-Volatile		5.13	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-13		
Lab Sample ID:	JD91204-12	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	94.0
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G138869.D	1	07/01/24 06:04	CP	06/29/24 14:50	OP55761	G5G3659
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00040	0.000078	mg/kg	
319-84-6	alpha-BHC	ND	0.00040	0.000046	mg/kg	
319-85-7	beta-BHC	ND	0.00040	0.000058	mg/kg	
319-86-8	delta-BHC	ND	0.00040	0.000060	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00040	0.000070	mg/kg	
5103-71-9	alpha-Chlordane [a]	0.0016	0.00040	0.000054	mg/kg	
5103-74-2	gamma-Chlordane [a]	0.00059	0.00040	0.000060	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0021	0.00040	0.000054	mg/kg	
60-57-1	Dieldrin	0.00071	0.00040	0.000064	mg/kg	
72-54-8	4,4'-DDD [b]	0.00037	0.00040	0.000042	mg/kg	J
72-55-9	4,4'-DDE [a]	0.00097	0.00040	0.000048	mg/kg	
50-29-3	4,4'-DDT	0.0027	0.00040	0.000070	mg/kg	
72-20-8	Endrin	ND	0.00040	0.000058	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00040	0.000048	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00040	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00040	0.000054	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00040	0.000056	mg/kg	
76-44-8	Heptachlor	ND	0.00040	0.000052	mg/kg	
1024-57-3	Heptachlor epoxide [a]	0.00050	0.00040	0.000072	mg/kg	
72-43-5	Methoxychlor	ND	0.00040	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00040	0.000064	mg/kg	
8001-35-2	Toxaphene	ND	0.0050	0.0033	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	57%		46-145%
877-09-8	Tetrachloro-m-xylene	72%		46-145%
2051-24-3	Decachlorobiphenyl	254% [c]		29-163%
2051-24-3	Decachlorobiphenyl	126%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-13		
Lab Sample ID:	JD91204-12	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	94.0
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

being used for confirmation only.
(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-13		
Lab Sample ID:	JD91204-12	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	94.0
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL17987.D	1	07/01/24 06:15	CP	06/29/24 14:50	OP55762	GRL399
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.020	0.0085	mg/kg	
11104-28-2	Aroclor 1221	ND	0.020	0.0067	mg/kg	
11141-16-5	Aroclor 1232	ND	0.020	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.020	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.020	0.0043	mg/kg	
11097-69-1	Aroclor 1254	ND	0.020	0.0022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.020	0.0069	mg/kg	
11100-14-4	Aroclor 1268	ND	0.020	0.0020	mg/kg	
37324-23-5	Aroclor 1262 [a]	0.0066	0.020	0.0017	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		42-159%
877-09-8	Tetrachloro-m-xylene	98%		42-159%
2051-24-3	Decachlorobiphenyl	82%		18-154%
2051-24-3	Decachlorobiphenyl	94%		18-154%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: GRID-13
Lab Sample ID: JD91204-12
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/26/24
Date Received: 06/26/24
Percent Solids: 94.0

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	7460	54	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.2	2.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	7.1	2.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	31.3	22	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.27	0.22	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.54	0.54	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	1040	540	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	8.9	1.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.4	5.4	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	13.5	2.7	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	11500	54	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	57.6	2.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1470	540	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	350	1.6	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.15	0.034	mg/kg	1	06/28/24	07/01/24	MK	SW846 7471B [1]	SW846 7471B [4]
Nickel	8.2	4.3	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.54	0.54	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	20.2	5.4	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	31.6	5.4	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56369
(2) Instrument QC Batch: MA56387
(3) Prep QC Batch: MP47572
(4) Prep QC Batch: MP47595

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-13		
Lab Sample ID:	JD91204-12	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	94.0
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.43	0.43	mg/kg	1	07/01/24 17:20	RI	SW846 3060A/7196A
Cyanide	0.26	0.25	mg/kg	1	06/28/24 18:07	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	376		mv	1	06/28/24 15:01	MM	ASTM D1498-76M
Solids, Percent	94		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	4.38 NC		su	1	06/28/24 14:26	MM	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-1		
Lab Sample ID:	JD91204-13	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	88.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ7998.D	1	07/01/24 16:12	KM	06/30/24 17:15	OP55759	ECJ348
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol [a]	ND	0.075	0.018	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.19	0.023	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.19	0.032	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.19	0.066	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.19	0.14	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.19	0.040	mg/kg	
95-48-7	2-Methylphenol [a]	ND	0.075	0.024	mg/kg	
	3&4-Methylphenol	ND	0.075	0.031	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.19	0.025	mg/kg	
100-02-7	4-Nitrophenol [b]	ND	0.37	0.10	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.15	0.035	mg/kg	
108-95-2	Phenol [a]	ND	0.075	0.019	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.19	0.025	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.19	0.028	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.19	0.022	mg/kg	
83-32-9	Acenaphthene	ND	0.037	0.013	mg/kg	
208-96-8	Acenaphthylene	ND	0.037	0.019	mg/kg	
98-86-2	Acetophenone	ND	0.19	0.0080	mg/kg	
120-12-7	Anthracene	ND	0.037	0.023	mg/kg	
1912-24-9	Atrazine [a]	ND	0.075	0.016	mg/kg	
56-55-3	Benzo(a)anthracene	0.0622	0.037	0.011	mg/kg	
50-32-8	Benzo(a)pyrene	0.0646	0.037	0.017	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.104	0.037	0.017	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0477	0.037	0.019	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0298	0.037	0.017	mg/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	0.075	0.014	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.075	0.0091	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.075	0.0051	mg/kg	
100-52-7	Benzaldehyde	0.0145	0.19	0.0093	mg/kg	J
91-58-7	2-Chloronaphthalene	ND	0.075	0.0089	mg/kg	
106-47-8	4-Chloroaniline	ND	0.19	0.013	mg/kg	
86-74-8	Carbazole	0.0090	0.075	0.0054	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-1		
Lab Sample ID:	JD91204-13	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	88.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.075	0.015	mg/kg	
218-01-9	Chrysene	0.0813	0.037	0.012	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.075	0.0080	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.075	0.016	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.075	0.013	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.075	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.037	0.012	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.037	0.019	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.075	0.031	mg/kg	
123-91-1	1,4-Dioxane	ND	0.037	0.025	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.037	0.017	mg/kg	
132-64-9	Dibenzofuran	ND	0.075	0.015	mg/kg	
84-74-2	Di-n-butyl phthalate	0.0066	0.075	0.0061	mg/kg	J
117-84-0	Di-n-octyl phthalate	ND	0.075	0.0093	mg/kg	
84-66-2	Diethyl phthalate	ND	0.075	0.0080	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.075	0.0066	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0252	0.075	0.0087	mg/kg	J
206-44-0	Fluoranthene	0.176	0.037	0.017	mg/kg	
86-73-7	Fluorene	ND	0.037	0.017	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.075	0.0094	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.037	0.015	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.37	0.015	mg/kg	
67-72-1	Hexachloroethane	ND	0.19	0.018	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0384	0.037	0.018	mg/kg	
78-59-1	Isophorone	ND	0.075	0.0080	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.037	0.0084	mg/kg	
88-74-4	2-Nitroaniline	ND	0.19	0.0088	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.19	0.0093	mg/kg	
100-01-6	4-Nitroaniline	ND	0.19	0.0097	mg/kg	
91-20-3	Naphthalene	ND	0.037	0.011	mg/kg	
98-95-3	Nitrobenzene	ND	0.075	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.075	0.011	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.19	0.014	mg/kg	
85-01-8	Phenanthrene	0.0924	0.037	0.013	mg/kg	
129-00-0	Pyrene	0.152	0.037	0.012	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.19	0.0095	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-1		
Lab Sample ID:	JD91204-13	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	88.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	40%		10-96%
118-79-6	2,4,6-Tribromophenol	46%		10-123%
4165-60-0	Nitrobenzene-d5	44%		10-109%
321-60-8	2-Fluorobiphenyl	53%		11-109%
1718-51-0	Terphenyl-d14	45%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Alkane	10.50	.19	mg/kg	J
	Unknown alcohol	10.55	.91	mg/kg	J
	Unknown	10.85	.16	mg/kg	J
	Alkane	11.08	.92	mg/kg	J
	Unknown	11.14	.79	mg/kg	J
	Alkane	11.37	.16	mg/kg	J
	Unknown alcohol	11.51	.73	mg/kg	J
	Alkane	11.68	1.5	mg/kg	J
	Unknown	11.76	.27	mg/kg	J
	Unknown	11.84	.17	mg/kg	J
	Unknown	12.12	.16	mg/kg	J
	Unknown alcohol	12.21	.67	mg/kg	J
	Unknown	12.37	.29	mg/kg	J
	Alkane	12.42	.44	mg/kg	J
	Unknown	12.48	.24	mg/kg	J
	Unknown	12.53	.29	mg/kg	J
	Sitosterol	12.73	.99	mg/kg	J
	Unknown	13.00	.31	mg/kg	J
	Unknown alcohol	13.13	.42	mg/kg	J
	Unknown	13.23	.33	mg/kg	J
	Unknown	13.32	.36	mg/kg	J
	Unknown	13.56	.27	mg/kg	J
	Unknown	13.95	.35	mg/kg	J
	Total TIC, Semi-Volatile		10.92	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-1		
Lab Sample ID:	JD91204-13	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	88.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G138870.D	1	07/01/24 06:25	CP	06/29/24 14:50	OP55761	G5G3659
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00044	0.000085	mg/kg	
319-84-6	alpha-BHC	ND	0.00044	0.000050	mg/kg	
319-85-7	beta-BHC	ND	0.00044	0.000063	mg/kg	
319-86-8	delta-BHC	ND	0.00044	0.000065	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00044	0.000076	mg/kg	
5103-71-9	alpha-Chlordane [a]	0.00015	0.00044	0.000059	mg/kg	J
5103-74-2	gamma-Chlordane [a]	0.000091	0.00044	0.000065	mg/kg	J
57-74-9	Chlordane (alpha and gamma)	0.00025	0.00044	0.000059	mg/kg	J
60-57-1	Dieldrin [a]	0.00017	0.00044	0.000070	mg/kg	J
72-54-8	4,4'-DDD [b]	0.00024	0.00044	0.000046	mg/kg	J
72-55-9	4,4'-DDE [a]	0.00067	0.00044	0.000052	mg/kg	
50-29-3	4,4'-DDT	0.0016	0.00044	0.000076	mg/kg	
72-20-8	Endrin	ND	0.00044	0.000063	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00044	0.000052	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00044	0.00013	mg/kg	
959-98-8	Endosulfan-I	ND	0.00044	0.000059	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00044	0.000061	mg/kg	
76-44-8	Heptachlor	ND	0.00044	0.000057	mg/kg	
1024-57-3	Heptachlor epoxide [a]	0.00014	0.00044	0.000078	mg/kg	J
72-43-5	Methoxychlor	ND	0.00044	0.00017	mg/kg	
53494-70-5	Endrin ketone	ND	0.00044	0.000070	mg/kg	
8001-35-2	Toxaphene	ND	0.0054	0.0036	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	54%		46-145%
877-09-8	Tetrachloro-m-xylene	70%		46-145%
2051-24-3	Decachlorobiphenyl	99%		29-163%
2051-24-3	Decachlorobiphenyl	79%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-1		
Lab Sample ID:	JD91204-13	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	88.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-1		
Lab Sample ID:	JD91204-13	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	88.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL17988.D	1	07/01/24 06:32	CP	06/29/24 14:50	OP55762	GRL399
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.022	0.0092	mg/kg	
11104-28-2	Aroclor 1221	ND	0.022	0.0073	mg/kg	
11141-16-5	Aroclor 1232	ND	0.022	0.018	mg/kg	
53469-21-9	Aroclor 1242	ND	0.022	0.013	mg/kg	
12672-29-6	Aroclor 1248	ND	0.022	0.0047	mg/kg	
11097-69-1	Aroclor 1254 [a]	0.0039	0.022	0.0023	mg/kg	J
11096-82-5	Aroclor 1260	ND	0.022	0.0075	mg/kg	
11100-14-4	Aroclor 1268	ND	0.022	0.0022	mg/kg	
37324-23-5	Aroclor 1262	ND	0.022	0.0018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		42-159%
877-09-8	Tetrachloro-m-xylene	98%		42-159%
2051-24-3	Decachlorobiphenyl	83%		18-154%
2051-24-3	Decachlorobiphenyl	94%		18-154%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-1		
Lab Sample ID:	JD91204-13	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	88.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	14200	55	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]
Antimony	< 2.2	2.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]
Arsenic	6.2	2.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]
Barium	46.0	22	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]
Beryllium	0.58	0.22	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]
Cadmium	< 0.55	0.55	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]
Calcium	< 550	550	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]
Chromium	13.8	1.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]
Cobalt	6.1	5.5	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]
Copper	12.7	5.5	mg/kg	2	06/28/24	06/30/24	MM	SW846 6010D [3]	SW846 3050B [4]
Iron	26200	110	mg/kg	2	06/28/24	06/30/24	MM	SW846 6010D [3]	SW846 3050B [4]
Lead	49.6	2.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]
Magnesium	1860	550	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]
Manganese	756	1.7	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]
Mercury	0.18	0.035	mg/kg	1	06/28/24	07/01/24	MK	SW846 7471B [1]	SW846 7471B [5]
Nickel	11.3	4.4	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]
Potassium	< 1100	1100	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]
Selenium	< 4.4	4.4	mg/kg	2	06/28/24	06/30/24	MM	SW846 6010D [3]	SW846 3050B [4]
Silver	< 0.55	0.55	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]
Sodium	< 1100	1100	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]
Thallium	< 1.1	1.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]
Vanadium	24.3	5.5	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]
Zinc	45.3	5.5	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA56369
(2) Instrument QC Batch: MA56387
(3) Instrument QC Batch: MA56389
(4) Prep QC Batch: MP47572
(5) Prep QC Batch: MP47595

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-1		
Lab Sample ID:	JD91204-13	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	88.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.45	0.45	mg/kg	1	07/01/24 17:20	RI	SW846 3060A/7196A
Cyanide	< 0.23	0.23	mg/kg	1	06/28/24 18:08	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	412		mv	1	06/28/24 15:02	MM	ASTM D1498-76M
Solids, Percent	88.4		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	3.08 NC		su	1	06/28/24 14:27	MM	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-18		
Lab Sample ID:	JD91204-14	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	95.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ8011.D	1	07/01/24 20:15	KM	06/30/24 17:15	OP55759	ECJ348
Run #2	6P516236.D	5	07/02/24 15:44	JY	06/30/24 17:15	OP55759	E6P4200

	Initial Weight	Final Volume
Run #1	31.3 g	1.0 ml
Run #2	31.3 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol [a]	ND	0.067	0.016	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.17	0.020	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.17	0.028	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.17	0.059	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.17	0.13	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.17	0.036	mg/kg	
95-48-7	2-Methylphenol [a]	ND	0.067	0.021	mg/kg	
	3&4-Methylphenol	ND	0.067	0.027	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.17	0.022	mg/kg	
100-02-7	4-Nitrophenol [b]	ND	0.33	0.089	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.13	0.031	mg/kg	
108-95-2	Phenol [a]	ND	0.067	0.017	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.17	0.022	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.17	0.025	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.17	0.020	mg/kg	
83-32-9	Acenaphthene	0.466	0.033	0.012	mg/kg	
208-96-8	Acenaphthylene	0.113	0.033	0.017	mg/kg	
98-86-2	Acetophenone	0.0093	0.17	0.0072	mg/kg	J
120-12-7	Anthracene	0.868	0.033	0.020	mg/kg	
1912-24-9	Atrazine [a]	ND	0.067	0.014	mg/kg	
56-55-3	Benzo(a)anthracene	2.37	0.033	0.0094	mg/kg	
50-32-8	Benzo(a)pyrene	2.41	0.033	0.015	mg/kg	
205-99-2	Benzo(b)fluoranthene	2.74	0.033	0.015	mg/kg	
191-24-2	Benzo(g,h,i)perylene	1.75	0.033	0.017	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.885	0.033	0.016	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.067	0.013	mg/kg	
85-68-7	Butyl benzyl phthalate [c]	0.0279	0.067	0.0081	mg/kg	J
92-52-4	1,1'-Biphenyl	0.0422	0.067	0.0046	mg/kg	J
100-52-7	Benzaldehyde	0.0226	0.17	0.0083	mg/kg	J
91-58-7	2-Chloronaphthalene	ND	0.067	0.0079	mg/kg	
106-47-8	4-Chloroaniline	ND	0.17	0.012	mg/kg	
86-74-8	Carbazole	0.519	0.067	0.0048	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-18		
Lab Sample ID:	JD91204-14	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	95.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.067	0.013	mg/kg	
218-01-9	Chrysene	2.17	0.033	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.067	0.0071	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.067	0.014	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.067	0.012	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.067	0.011	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.033	0.010	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.033	0.017	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.067	0.028	mg/kg	
123-91-1	1,4-Dioxane	ND	0.033	0.022	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.455	0.033	0.015	mg/kg	
132-64-9	Dibenzofuran	0.230	0.067	0.014	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.067	0.0054	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.067	0.0083	mg/kg	
84-66-2	Diethyl phthalate	ND	0.067	0.0071	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.067	0.0059	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0450	0.067	0.0078	mg/kg	J
206-44-0	Fluoranthene	5.18 [d]	0.17	0.074	mg/kg	
86-73-7	Fluorene	0.455	0.033	0.015	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.067	0.0084	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.033	0.013	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.33	0.013	mg/kg	
67-72-1	Hexachloroethane	ND	0.17	0.017	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	1.35	0.033	0.016	mg/kg	
78-59-1	Isophorone	ND	0.067	0.0071	mg/kg	
91-57-6	2-Methylnaphthalene	0.133	0.033	0.0075	mg/kg	
88-74-4	2-Nitroaniline	ND	0.17	0.0079	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.17	0.0083	mg/kg	
100-01-6	4-Nitroaniline	ND	0.17	0.0086	mg/kg	
91-20-3	Naphthalene	0.147	0.033	0.0094	mg/kg	
98-95-3	Nitrobenzene	ND	0.067	0.013	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.067	0.0096	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.17	0.012	mg/kg	
85-01-8	Phenanthrene	3.03	0.033	0.011	mg/kg	
129-00-0	Pyrene	4.05 [d]	0.17	0.053	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.17	0.0085	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%	46%	10-99%

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-18		
Lab Sample ID:	JD91204-14	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	95.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	47%	52%	10-96%
118-79-6	2,4,6-Tribromophenol	53%	63%	10-123%
4165-60-0	Nitrobenzene-d5	47%	45%	10-109%
321-60-8	2-Fluorobiphenyl	53%	52%	11-109%
1718-51-0	Terphenyl-d14	55%	54%	10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.54	.57	mg/kg	J
203-64-5	4H-Cyclopenta[def]phenanthrene	8.03	.83	mg/kg	JN
	Unknown	10.83	.45	mg/kg	J
	Unknown PAH substance	11.05	.8	mg/kg	J
	Alkane	11.08	.62	mg/kg	J
	Unknown	11.14	1.1	mg/kg	J
	Unknown PAH substance	11.19	1.5	mg/kg	J
	Unknown	11.37	.5	mg/kg	J
	Unknown	11.46	.73	mg/kg	J
	Unknown	11.51	1.1	mg/kg	J
	Unknown	11.60	.57	mg/kg	J
	Alkane	11.68	1.2	mg/kg	J
	Unknown	11.75	.79	mg/kg	J
	Unknown	11.80	.43	mg/kg	J
59-02-9	Vitamin E	11.85	.64	mg/kg	JN
	Unknown PAH substance	11.93	.55	mg/kg	J
	Unknown PAH substance	12.00	.44	mg/kg	J
	Unknown	12.05	.46	mg/kg	J
	Unknown PAH substance	12.22	1.4	mg/kg	J
	Unknown PAH substance	12.44	.55	mg/kg	J
	Unknown PAH substance	12.49	.5	mg/kg	J
	Unknown	12.54	.49	mg/kg	J
	Sitosterol	12.72	.46	mg/kg	J
	Unknown PAH substance	12.80	.65	mg/kg	J
	-Dibenzopyrene	14.13	.51	mg/kg	J
	Total TIC, Semi-Volatile		17.84	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
(c) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-18		
Lab Sample ID:	JD91204-14	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	95.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q

(d) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-18		
Lab Sample ID:	JD91204-14	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	95.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5G138916.D	1	07/02/24 10:41	CP	06/29/24 14:50	OP55761	G5G3661
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00040	0.000078	mg/kg	
319-84-6	alpha-BHC	ND	0.00040	0.000046	mg/kg	
319-85-7	beta-BHC	ND	0.00040	0.000058	mg/kg	
319-86-8	delta-BHC	ND	0.00040	0.000060	mg/kg	
58-89-9	gamma-BHC (Lindane) [b]	0.000076	0.00040	0.000070	mg/kg	J
5103-71-9	alpha-Chlordane [b]	0.0027	0.00040	0.000054	mg/kg	
5103-74-2	gamma-Chlordane	0.0033	0.00040	0.000060	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0060	0.00040	0.000054	mg/kg	
60-57-1	Dieldrin [b]	0.0023	0.00040	0.000064	mg/kg	
72-54-8	4,4'-DDD	0.0018	0.00040	0.000042	mg/kg	
72-55-9	4,4'-DDE [b]	0.0018	0.00040	0.000048	mg/kg	
50-29-3	4,4'-DDT	0.0068	0.00040	0.000070	mg/kg	
72-20-8	Endrin	ND	0.00040	0.000058	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00040	0.000048	mg/kg	
7421-93-4	Endrin aldehyde [c]	0.0019	0.00040	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00040	0.000054	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00040	0.000056	mg/kg	
76-44-8	Heptachlor	ND	0.00040	0.000052	mg/kg	
1024-57-3	Heptachlor epoxide [d]	0.0021	0.00040	0.000072	mg/kg	
72-43-5	Methoxychlor	ND	0.00040	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00040	0.000064	mg/kg	
8001-35-2	Toxaphene	ND	0.0050	0.0033	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	43% [e]		46-145%
877-09-8	Tetrachloro-m-xylene	50%		46-145%
2051-24-3	Decachlorobiphenyl	420% [e]		29-163%
2051-24-3	Decachlorobiphenyl	49%		29-163%

(a) Had TBA cleanup.
(b) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-18		
Lab Sample ID:	JD91204-14	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	95.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

(c) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
(d) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
(e) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-18		
Lab Sample ID:	JD91204-14	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	95.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL17993.D	1	07/01/24 07:56	CP	06/29/24 14:50	OP55762	GRL399
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.020	0.0085	mg/kg	
11104-28-2	Aroclor 1221	ND	0.020	0.0067	mg/kg	
11141-16-5	Aroclor 1232	ND	0.020	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.020	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.020	0.0043	mg/kg	
11097-69-1	Aroclor 1254	0.0967	0.020	0.0022	mg/kg	
11096-82-5	Aroclor 1260	0.0248	0.020	0.0069	mg/kg	
11100-14-4	Aroclor 1268	ND	0.020	0.0020	mg/kg	
37324-23-5	Aroclor 1262	ND	0.020	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		42-159%
877-09-8	Tetrachloro-m-xylene	98%		42-159%
2051-24-3	Decachlorobiphenyl	81%		18-154%
2051-24-3	Decachlorobiphenyl	94%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-18
Lab Sample ID: JD91204-14
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/26/24
Date Received: 06/26/24
Percent Solids: 95.8

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	6570	50	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.0	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	3.7	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	34.4	20	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.23	0.20	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.50	0.50	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	1350	500	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	8.3	0.99	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	5.2	5.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	14.5	2.5	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	12500	50	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	23.7	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	2280	500	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	239	1.5	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.028	0.028	mg/kg	1	06/28/24	07/01/24	MK	SW846 7471B [1]	SW846 7471B [4]
Nickel	9.6	4.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 990	990	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.0	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.50	0.50	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 990	990	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 0.99	0.99	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	18.6	5.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	34.2	5.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56369
(2) Instrument QC Batch: MA56387
(3) Prep QC Batch: MP47572
(4) Prep QC Batch: MP47595

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-18		
Lab Sample ID:	JD91204-14	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	95.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.42	0.42	mg/kg	1	07/01/24 17:20	RI	SW846 3060A/7196A
Cyanide	< 0.23	0.23	mg/kg	1	06/28/24 18:10	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	362		mv	1	06/28/24 15:06	MM	ASTM D1498-76M
Solids, Percent	95.8		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	5.08 NC		su	1	06/28/24 14:29	MM	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-12A		
Lab Sample ID:	JD91204-15	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	95.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ7999.D	1	07/01/24 16:31	KM	06/30/24 17:15	OP55759	ECJ348
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol [a]	ND	0.068	0.017	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.17	0.021	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.17	0.029	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.17	0.061	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.17	0.13	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.17	0.037	mg/kg	
95-48-7	2-Methylphenol [a]	ND	0.068	0.022	mg/kg	
	3&4-Methylphenol	ND	0.068	0.028	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.17	0.023	mg/kg	
100-02-7	4-Nitrophenol [b]	ND	0.34	0.091	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.14	0.032	mg/kg	
108-95-2	Phenol [a]	ND	0.068	0.018	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.17	0.023	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.17	0.026	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.17	0.020	mg/kg	
83-32-9	Acenaphthene	ND	0.034	0.012	mg/kg	
208-96-8	Acenaphthylene	ND	0.034	0.017	mg/kg	
98-86-2	Acetophenone	ND	0.17	0.0073	mg/kg	
120-12-7	Anthracene	ND	0.034	0.021	mg/kg	
1912-24-9	Atrazine [a]	ND	0.068	0.015	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.034	0.0097	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.034	0.016	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.034	0.015	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.034	0.017	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.034	0.016	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.068	0.013	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.068	0.0083	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.068	0.0047	mg/kg	
100-52-7	Benzaldehyde	ND	0.17	0.0085	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.068	0.0081	mg/kg	
106-47-8	4-Chloroaniline	ND	0.17	0.012	mg/kg	
86-74-8	Carbazole	ND	0.068	0.0050	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-12A		
Lab Sample ID:	JD91204-15	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	95.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.068	0.014	mg/kg	
218-01-9	Chrysene	ND	0.034	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.068	0.0073	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.068	0.015	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.068	0.012	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.068	0.011	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.034	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.034	0.017	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.068	0.029	mg/kg	
123-91-1	1,4-Dioxane	ND	0.034	0.023	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.034	0.015	mg/kg	
132-64-9	Dibenzofuran	ND	0.068	0.014	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.068	0.0056	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.068	0.0085	mg/kg	
84-66-2	Diethyl phthalate	ND	0.068	0.0073	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.068	0.0061	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.068	0.0080	mg/kg	
206-44-0	Fluoranthene	ND	0.034	0.015	mg/kg	
86-73-7	Fluorene	ND	0.034	0.016	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.068	0.0086	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.034	0.014	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.34	0.014	mg/kg	
67-72-1	Hexachloroethane	ND	0.17	0.017	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.034	0.016	mg/kg	
78-59-1	Isophorone	ND	0.068	0.0073	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.034	0.0077	mg/kg	
88-74-4	2-Nitroaniline	ND	0.17	0.0081	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.17	0.0085	mg/kg	
100-01-6	4-Nitroaniline	ND	0.17	0.0089	mg/kg	
91-20-3	Naphthalene	ND	0.034	0.0096	mg/kg	
98-95-3	Nitrobenzene	ND	0.068	0.013	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.068	0.0099	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.17	0.013	mg/kg	
85-01-8	Phenanthrene	ND	0.034	0.011	mg/kg	
129-00-0	Pyrene	ND	0.034	0.011	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.17	0.0087	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-12A		
Lab Sample ID:	JD91204-15	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	95.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	51%		10-96%
118-79-6	2,4,6-Tribromophenol	60%		10-123%
4165-60-0	Nitrobenzene-d5	59%		10-109%
321-60-8	2-Fluorobiphenyl	65%		11-109%
1718-51-0	Terphenyl-d14	61%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown alcohol	10.55	.3	mg/kg	J
	Unknown alcohol	10.92	.21	mg/kg	J
	Alkane	11.08	.19	mg/kg	J
	Unknown alcohol	11.15	.48	mg/kg	J
	Unknown alcohol	11.50	.26	mg/kg	J
	Alkane	11.67	.19	mg/kg	J
	Sitosterol	12.74	.23	mg/kg	J
	Total TIC, Semi-Volatile		1.86	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-12A		
Lab Sample ID:	JD91204-15	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	95.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G138872.D	1	07/01/24 07:07	CP	06/29/24 14:50	OP55761	G5G3659
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00041	0.000080	mg/kg	
319-84-6	alpha-BHC	ND	0.00041	0.000047	mg/kg	
319-85-7	beta-BHC	ND	0.00041	0.000059	mg/kg	
319-86-8	delta-BHC	ND	0.00041	0.000062	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00041	0.000072	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.00041	0.000055	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.00041	0.000062	mg/kg	
57-74-9	Chlordane (alpha and gamma)	ND	0.00041	0.000055	mg/kg	
60-57-1	Dieldrin	ND	0.00041	0.000066	mg/kg	
72-54-8	4,4'-DDD	ND	0.00041	0.000043	mg/kg	
72-55-9	4,4'-DDE	ND	0.00041	0.000049	mg/kg	
50-29-3	4,4'-DDT	ND	0.00041	0.000072	mg/kg	
72-20-8	Endrin	ND	0.00041	0.000059	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00041	0.000049	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00041	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00041	0.000055	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00041	0.000057	mg/kg	
76-44-8	Heptachlor	ND	0.00041	0.000053	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00041	0.000074	mg/kg	
72-43-5	Methoxychlor	ND	0.00041	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00041	0.000066	mg/kg	
8001-35-2	Toxaphene	ND	0.0051	0.0034	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	57%		46-145%
877-09-8	Tetrachloro-m-xylene	72%		46-145%
2051-24-3	Decachlorobiphenyl	56%		29-163%
2051-24-3	Decachlorobiphenyl	57%		29-163%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-12A		
Lab Sample ID:	JD91204-15	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	95.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL17994.D	1	07/01/24 08:13	CP	06/29/24 14:50	OP55762	GRL399
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.021	0.0087	mg/kg	
11104-28-2	Aroclor 1221	ND	0.021	0.0069	mg/kg	
11141-16-5	Aroclor 1232	ND	0.021	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.021	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.021	0.0044	mg/kg	
11097-69-1	Aroclor 1254	ND	0.021	0.0022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.021	0.0071	mg/kg	
11100-14-4	Aroclor 1268	ND	0.021	0.0021	mg/kg	
37324-23-5	Aroclor 1262	ND	0.021	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		42-159%
877-09-8	Tetrachloro-m-xylene	97%		42-159%
2051-24-3	Decachlorobiphenyl	81%		18-154%
2051-24-3	Decachlorobiphenyl	91%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-12A
Lab Sample ID: JD91204-15
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/26/24
Date Received: 06/26/24
Percent Solids: 95.6

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	9670	50	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.0	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	3.2	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	36.2	20	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.36	0.20	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.50	0.50	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	< 500	500	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	9.1	1.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.0	5.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	7.1	2.5	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	14000	50	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	26.5	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1460	500	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	338	1.5	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.076	0.035	mg/kg	1	06/28/24	07/01/24	MK	SW846 7471B [1]	SW846 7471B [4]
Nickel	8.2	4.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1000	1000	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.0	2.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.50	0.50	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1000	1000	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	15.6	5.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	40.7	5.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56369
(2) Instrument QC Batch: MA56387
(3) Prep QC Batch: MP47572
(4) Prep QC Batch: MP47595

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-12A		
Lab Sample ID:	JD91204-15	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	95.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.50	0.42	mg/kg	1	07/01/24 17:20	RI	SW846 3060A/7196A
Cyanide	< 0.25	0.25	mg/kg	1	06/28/24 18:11	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	389		mv	1	06/28/24 15:07	MM	ASTM D1498-76M
Solids, Percent	95.6		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	3.48 NC		su	1	06/28/24 14:30	MM	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-22A		
Lab Sample ID:	JD91204-16	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	93.3
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ8010.D	1	07/01/24 19:57	KM	06/30/24 17:15	OP55759	ECJ348
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol [a]	ND	0.071	0.017	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.18	0.022	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.18	0.030	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.18	0.063	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.18	0.13	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.18	0.038	mg/kg	
95-48-7	2-Methylphenol [a]	ND	0.071	0.023	mg/kg	
	3&4-Methylphenol	ND	0.071	0.029	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.18	0.023	mg/kg	
100-02-7	4-Nitrophenol [b]	ND	0.35	0.094	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.14	0.033	mg/kg	
108-95-2	Phenol [a]	ND	0.071	0.018	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.18	0.023	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.18	0.026	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.18	0.021	mg/kg	
83-32-9	Acenaphthene	0.0227	0.035	0.012	mg/kg	J
208-96-8	Acenaphthylene	0.0626	0.035	0.018	mg/kg	
98-86-2	Acetophenone	ND	0.18	0.0076	mg/kg	
120-12-7	Anthracene	0.0933	0.035	0.022	mg/kg	
1912-24-9	Atrazine [a]	ND	0.071	0.015	mg/kg	
56-55-3	Benzo(a)anthracene	0.377	0.035	0.010	mg/kg	
50-32-8	Benzo(a)pyrene	0.414	0.035	0.016	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.524	0.035	0.016	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.290	0.035	0.018	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.142	0.035	0.016	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.071	0.014	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.071	0.0086	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.071	0.0048	mg/kg	
100-52-7	Benzaldehyde	ND	0.18	0.0087	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.071	0.0084	mg/kg	
106-47-8	4-Chloroaniline	ND	0.18	0.013	mg/kg	
86-74-8	Carbazole	0.0143	0.071	0.0051	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-22A		
Lab Sample ID:	JD91204-16	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	93.3
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.071	0.014	mg/kg	
218-01-9	Chrysene	0.353	0.035	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.071	0.0075	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.071	0.015	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.071	0.013	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.071	0.011	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.035	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.035	0.018	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.071	0.029	mg/kg	
123-91-1	1,4-Dioxane	ND	0.035	0.023	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0799	0.035	0.016	mg/kg	
132-64-9	Dibenzofuran	ND	0.071	0.014	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.071	0.0057	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.071	0.0088	mg/kg	
84-66-2	Diethyl phthalate	ND	0.071	0.0075	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.071	0.0063	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0121	0.071	0.0083	mg/kg	J
206-44-0	Fluoranthene	0.760	0.035	0.016	mg/kg	
86-73-7	Fluorene	0.0264	0.035	0.016	mg/kg	J
118-74-1	Hexachlorobenzene	ND	0.071	0.0089	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.035	0.014	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.35	0.014	mg/kg	
67-72-1	Hexachloroethane	ND	0.18	0.017	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.240	0.035	0.017	mg/kg	
78-59-1	Isophorone	ND	0.071	0.0075	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.035	0.0080	mg/kg	
88-74-4	2-Nitroaniline	ND	0.18	0.0083	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.18	0.0088	mg/kg	
100-01-6	4-Nitroaniline	ND	0.18	0.0091	mg/kg	
91-20-3	Naphthalene	ND	0.035	0.0099	mg/kg	
98-95-3	Nitrobenzene	ND	0.071	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.071	0.010	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.18	0.013	mg/kg	
85-01-8	Phenanthrene	0.277	0.035	0.012	mg/kg	
129-00-0	Pyrene	0.701	0.035	0.011	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.18	0.0090	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	26%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-22A		
Lab Sample ID:	JD91204-16	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	93.3
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	28%		10-96%
118-79-6	2,4,6-Tribromophenol	32%		10-123%
4165-60-0	Nitrobenzene-d5	36%		10-109%
321-60-8	2-Fluorobiphenyl	42%		11-109%
1718-51-0	Terphenyl-d14	40%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Alkene	9.89	.17	mg/kg	J
	Unknown alcohol	10.53	.21	mg/kg	J
	Alkane	11.08	.26	mg/kg	J
	Unknown alcohol	11.12	.51	mg/kg	J
	Alkane	11.36	.14	mg/kg	J
	Unknown	11.42	.19	mg/kg	J
	Unknown alcohol	11.51	.66	mg/kg	J
	Alkane	11.68	.34	mg/kg	J
	Unknown alcohol	11.74	.32	mg/kg	J
	Unknown alcohol	12.21	.26	mg/kg	J
	Unknown	12.38	.27	mg/kg	J
	Unknown PAH substance	12.43	.19	mg/kg	J
	Unknown alcohol	12.53	.17	mg/kg	J
	Sitosterol	12.70	.35	mg/kg	J
	Unknown PAH substance	12.78	.15	mg/kg	J
	Unknown	13.14	.18	mg/kg	J
	Unknown	13.34	.2	mg/kg	J
	Dibenzopyrene	14.11	.24	mg/kg	J
	Total TIC, Semi-Volatile		4.81	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-22A		
Lab Sample ID:	JD91204-16	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	93.3
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G138873.D	1	07/01/24 07:28	CP	06/29/24 14:50	OP55761	G5G3659
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00040	0.000077	mg/kg	
319-84-6	alpha-BHC	ND	0.00040	0.000046	mg/kg	
319-85-7	beta-BHC	ND	0.00040	0.000058	mg/kg	
319-86-8	delta-BHC	ND	0.00040	0.000060	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00040	0.000069	mg/kg	
5103-71-9	alpha-Chlordane [a]	0.00089	0.00040	0.000054	mg/kg	
5103-74-2	gamma-Chlordane [a]	0.0012	0.00040	0.000060	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0021	0.00040	0.000054	mg/kg	
60-57-1	Dieldrin [a]	0.00014	0.00040	0.000064	mg/kg	J
72-54-8	4,4'-DDD	0.00049	0.00040	0.000042	mg/kg	
72-55-9	4,4'-DDE [a]	0.0011	0.00040	0.000048	mg/kg	
50-29-3	4,4'-DDT	0.0013	0.00040	0.000069	mg/kg	
72-20-8	Endrin	ND	0.00040	0.000058	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00040	0.000048	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00040	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00040	0.000054	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00040	0.000056	mg/kg	
76-44-8	Heptachlor	ND	0.00040	0.000052	mg/kg	
1024-57-3	Heptachlor epoxide [a]	0.00022	0.00040	0.000071	mg/kg	J
72-43-5	Methoxychlor	ND	0.00040	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00040	0.000064	mg/kg	
8001-35-2	Toxaphene	ND	0.0050	0.0033	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	41% [b]		46-145%
877-09-8	Tetrachloro-m-xylene	57%		46-145%
2051-24-3	Decachlorobiphenyl	275% [b]		29-163%
2051-24-3	Decachlorobiphenyl	112%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-22A		
Lab Sample ID:	JD91204-16	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	93.3
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL17995.D	1	07/01/24 08:30	CP	06/29/24 14:50	OP55762	GRL399
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.020	0.0084	mg/kg	
11104-28-2	Aroclor 1221	ND	0.020	0.0067	mg/kg	
11141-16-5	Aroclor 1232	ND	0.020	0.016	mg/kg	
53469-21-9	Aroclor 1242	ND	0.020	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.020	0.0043	mg/kg	
11097-69-1	Aroclor 1254	0.0072	0.020	0.0021	mg/kg	J
11096-82-5	Aroclor 1260	ND	0.020	0.0068	mg/kg	
11100-14-4	Aroclor 1268	ND	0.020	0.0020	mg/kg	
37324-23-5	Aroclor 1262 [a]	0.0031	0.020	0.0017	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		42-159%
877-09-8	Tetrachloro-m-xylene	100%		42-159%
2051-24-3	Decachlorobiphenyl	81%		18-154%
2051-24-3	Decachlorobiphenyl	94%		18-154%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-22A		
Lab Sample ID:	JD91204-16	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	93.3
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	6580	53	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.1	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	2.6	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	28.9	21	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.23	0.21	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.53	0.53	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	1400	530	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	8.2	1.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.3	5.3	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	8.9	2.6	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	10600	53	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	23.0	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1420	530	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	231	1.6	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.069	0.029	mg/kg	1	06/28/24	07/01/24	MK	SW846 7471B [1]	SW846 7471B [4]
Nickel	7.7	4.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.53	0.53	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	13.5	5.3	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	31.3	5.3	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56369
(2) Instrument QC Batch: MA56387
(3) Prep QC Batch: MP47572
(4) Prep QC Batch: MP47595

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-22A		
Lab Sample ID:	JD91204-16	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	93.3
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.42	0.42	mg/kg	1	07/01/24 17:20	RI	SW846 3060A/7196A
Cyanide	< 0.26	0.26	mg/kg	1	06/28/24 18:12	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	377		mv	1	06/28/24 15:09	MM	ASTM D1498-76M
Solids, Percent	93.3		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	5.07 NC		su	1	06/28/24 14:31	MM	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-23		
Lab Sample ID:	JD91204-17	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	93.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CJ8000.D	1	07/01/24 16:50	KM	06/30/24 17:15	OP55759	ECJ348
Run #2							

	Initial Weight	Final Volume
Run #1	31.3 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol [a]	ND	0.068	0.017	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.17	0.021	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.17	0.029	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.17	0.061	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.17	0.13	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.17	0.036	mg/kg	
95-48-7	2-Methylphenol [a]	ND	0.068	0.022	mg/kg	
	3&4-Methylphenol	ND	0.068	0.028	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.17	0.023	mg/kg	
100-02-7	4-Nitrophenol [b]	ND	0.34	0.091	mg/kg	
87-86-5	Pentachlorophenol [b]	ND	0.14	0.032	mg/kg	
108-95-2	Phenol [a]	ND	0.068	0.018	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.17	0.023	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.17	0.026	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.17	0.020	mg/kg	
83-32-9	Acenaphthene	ND	0.034	0.012	mg/kg	
208-96-8	Acenaphthylene	ND	0.034	0.017	mg/kg	
98-86-2	Acetophenone	ND	0.17	0.0073	mg/kg	
120-12-7	Anthracene	ND	0.034	0.021	mg/kg	
1912-24-9	Atrazine [a]	ND	0.068	0.015	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.034	0.0096	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.034	0.016	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.034	0.015	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.034	0.017	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.034	0.016	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.068	0.013	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.068	0.0083	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.068	0.0047	mg/kg	
100-52-7	Benzaldehyde	ND	0.17	0.0085	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.068	0.0081	mg/kg	
106-47-8	4-Chloroaniline	ND	0.17	0.012	mg/kg	
86-74-8	Carbazole	ND	0.068	0.0049	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-23		
Lab Sample ID:	JD91204-17	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	93.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.068	0.013	mg/kg	
218-01-9	Chrysene	ND	0.034	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.068	0.0073	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.068	0.015	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.068	0.012	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.068	0.011	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.034	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.034	0.017	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.068	0.028	mg/kg	
123-91-1	1,4-Dioxane	ND	0.034	0.023	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.034	0.015	mg/kg	
132-64-9	Dibenzofuran	ND	0.068	0.014	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.068	0.0056	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.068	0.0085	mg/kg	
84-66-2	Diethyl phthalate	ND	0.068	0.0073	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.068	0.0061	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.068	0.0080	mg/kg	
206-44-0	Fluoranthene	ND	0.034	0.015	mg/kg	
86-73-7	Fluorene	ND	0.034	0.016	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.068	0.0086	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.034	0.014	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.34	0.014	mg/kg	
67-72-1	Hexachloroethane	ND	0.17	0.017	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.034	0.016	mg/kg	
78-59-1	Isophorone	ND	0.068	0.0073	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.034	0.0077	mg/kg	
88-74-4	2-Nitroaniline	ND	0.17	0.0080	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.17	0.0085	mg/kg	
100-01-6	4-Nitroaniline	ND	0.17	0.0088	mg/kg	
91-20-3	Naphthalene	ND	0.034	0.0096	mg/kg	
98-95-3	Nitrobenzene	ND	0.068	0.013	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.068	0.0099	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.17	0.012	mg/kg	
85-01-8	Phenanthrene	ND	0.034	0.011	mg/kg	
129-00-0	Pyrene	ND	0.034	0.011	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.17	0.0087	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-23		
Lab Sample ID:	JD91204-17	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	93.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	58%		10-96%
118-79-6	2,4,6-Tribromophenol	67%		10-123%
4165-60-0	Nitrobenzene-d5	54%		10-109%
321-60-8	2-Fluorobiphenyl	62%		11-109%
1718-51-0	Terphenyl-d14	65%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
57-10-3	n-Hexadecanoic acid	7.99	.29	mg/kg	JN
	Unknown acid	8.66	.2	mg/kg	J
57-11-4	Octadecanoic acid	8.74	.21	mg/kg	JN
	Unknown alcohol	9.91	.54	mg/kg	J
	Unknown alcohol	10.54	.6	mg/kg	J
	Unknown acid	10.71	.19	mg/kg	J
	Unknown	10.85	.21	mg/kg	J
	Unknown alcohol	10.92	.17	mg/kg	J
	Alkane	11.08	.22	mg/kg	J
	Unknown alcohol	11.14	.46	mg/kg	J
	Alkane	11.36	.17	mg/kg	J
	Unknown	11.43	.2	mg/kg	J
	Unknown	11.51	.24	mg/kg	J
	Unknown	11.55	.21	mg/kg	J
	Alkane	11.68	.21	mg/kg	J
	Unknown	11.76	.3	mg/kg	J
59-02-9	Vitamin E	11.84	.17	mg/kg	JN
	Unknown	12.12	.26	mg/kg	J
	Unknown alcohol	12.21	.21	mg/kg	J
	Unknown	12.37	.47	mg/kg	J
	Unknown	12.53	.2	mg/kg	J
	Unknown	12.59	.17	mg/kg	J
	Sitosterol	12.72	.32	mg/kg	J
	Unknown	13.22	.24	mg/kg	J
	Unknown	14.18	.17	mg/kg	J
	Total TIC, Semi-Volatile		6.63	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-23		
Lab Sample ID:	JD91204-17	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	93.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G138874.D	1	07/01/24 07:49	CP	06/29/24 14:50	OP55761	G5G3659
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00041	0.000080	mg/kg	
319-84-6	alpha-BHC	ND	0.00041	0.000047	mg/kg	
319-85-7	beta-BHC	ND	0.00041	0.000060	mg/kg	
319-86-8	delta-BHC	ND	0.00041	0.000062	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00041	0.000072	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.00041	0.000055	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.00041	0.000062	mg/kg	
57-74-9	Chlordane (alpha and gamma)	ND	0.00041	0.000055	mg/kg	
60-57-1	Dieldrin	ND	0.00041	0.000066	mg/kg	
72-54-8	4,4'-DDD	ND	0.00041	0.000043	mg/kg	
72-55-9	4,4'-DDE	ND	0.00041	0.000049	mg/kg	
50-29-3	4,4'-DDT	ND	0.00041	0.000072	mg/kg	
72-20-8	Endrin	ND	0.00041	0.000060	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00041	0.000049	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00041	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00041	0.000055	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00041	0.000057	mg/kg	
76-44-8	Heptachlor	ND	0.00041	0.000053	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00041	0.000074	mg/kg	
72-43-5	Methoxychlor	ND	0.00041	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00041	0.000066	mg/kg	
8001-35-2	Toxaphene	ND	0.0051	0.0034	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	58%		46-145%
877-09-8	Tetrachloro-m-xylene	73%		46-145%
2051-24-3	Decachlorobiphenyl	56%		29-163%
2051-24-3	Decachlorobiphenyl	57%		29-163%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-23		
Lab Sample ID:	JD91204-17	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	93.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL17996.D	1	07/01/24 08:46	CP	06/29/24 14:50	OP55762	GRL399
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.021	0.0087	mg/kg	
11104-28-2	Aroclor 1221	ND	0.021	0.0069	mg/kg	
11141-16-5	Aroclor 1232	ND	0.021	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.021	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.021	0.0044	mg/kg	
11097-69-1	Aroclor 1254	ND	0.021	0.0022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.021	0.0071	mg/kg	
11100-14-4	Aroclor 1268	ND	0.021	0.0021	mg/kg	
37324-23-5	Aroclor 1262	ND	0.021	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		42-159%
877-09-8	Tetrachloro-m-xylene	98%		42-159%
2051-24-3	Decachlorobiphenyl	82%		18-154%
2051-24-3	Decachlorobiphenyl	91%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-23
Lab Sample ID: JD91204-17
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/26/24
Date Received: 06/26/24
Percent Solids: 93.7

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	12800	52	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.1	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Arsenic	4.0	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Barium	54.6	21	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.44	0.21	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.52	0.52	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Calcium	< 520	520	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Chromium	12.4	1.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 5.2	5.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Copper	5.6	2.6	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Iron	16200	52	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Lead	10.5	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Magnesium	1670	520	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Manganese	280	1.6	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.033	0.028	mg/kg	1	06/28/24	07/01/24	MK	SW846 7471B [1]	SW846 7471B [4]
Nickel	9.3	4.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1000	1000	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.52	0.52	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1000	1000	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Vanadium	20.6	5.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]
Zinc	31.0	5.2	mg/kg	1	06/28/24	06/28/24	MM	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA56369
(2) Instrument QC Batch: MA56387
(3) Prep QC Batch: MP47572
(4) Prep QC Batch: MP47595

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-23		
Lab Sample ID:	JD91204-17	**Date Sampled:**	06/26/24
Matrix:	SO - Soil	**Date Received:**	06/26/24
		Percent Solids:	93.7
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.43	0.43	mg/kg	1	07/01/24 17:20	RI	SW846 3060A/7196A
Cyanide	< 0.22	0.22	mg/kg	1	06/28/24 18:13	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	401		mv	1	06/28/24 15:10	MM	ASTM D1498-76M
Solids, Percent	93.7		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	3.32 NC		su	1	06/28/24 14:32	MM	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	JD91204-18	**Date Sampled:**	06/26/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F220737.D	1	06/29/24 14:36	KLS	06/28/24 15:30	OP55747	EF9807
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	5.0	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	4.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	JD91204-18	**Date Sampled:**	06/26/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate [a]	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		10-71%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	JD91204-18	**Date Sampled:**	06/26/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	21%		10-58%
118-79-6	2,4,6-Tribromophenol	78%		22-144%
4165-60-0	Nitrobenzene-d5	64%		28-118%
321-60-8	2-Fluorobiphenyl	69%		34-116%
1718-51-0	Terphenyl-d14	77%		10-127%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	JD91204-18	**Date Sampled:**	06/26/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G197509.D	1	06/29/24 09:44	TP	06/28/24 09:30	OP55744	G1G7068
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0050	0.0026	ug/l	
319-84-6	alpha-BHC	ND	0.0050	0.0026	ug/l	
319-85-7	beta-BHC	ND	0.0050	0.0040	ug/l	
319-86-8	delta-BHC	ND	0.0050	0.0033	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0050	0.0030	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0050	0.0025	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0050	0.0021	ug/l	
57-74-9	Chlordane (alpha and gamma)	ND	0.0050	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.0050	0.0038	ug/l	
72-54-8	4,4'-DDD	ND	0.0050	0.0029	ug/l	
72-55-9	4,4'-DDE	ND	0.0050	0.0025	ug/l	
50-29-3	4,4'-DDT	ND	0.0050	0.0034	ug/l	
72-20-8	Endrin	ND	0.0050	0.0030	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0050	0.0027	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0050	0.0034	ug/l	
53494-70-5	Endrin ketone	ND	0.0050	0.0031	ug/l	
959-98-8	Endosulfan-I	ND	0.0050	0.0026	ug/l	
33213-65-9	Endosulfan-II	ND	0.0050	0.0024	ug/l	
76-44-8	Heptachlor	ND	0.0050	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0050	0.0030	ug/l	
72-43-5	Methoxychlor	ND	0.010	0.0034	ug/l	
8001-35-2	Toxaphene	ND	0.13	0.082	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		10-175%
877-09-8	Tetrachloro-m-xylene	95%		10-175%
2051-24-3	Decachlorobiphenyl	65%		10-128%
2051-24-3	Decachlorobiphenyl	60%		10-128%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	JD91204-18	**Date Sampled:**	06/26/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2513576.D	1	06/29/24 14:01	TP	06/28/24 09:30	OP55745	GXX8562
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016 [a]	ND	0.25	0.098	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	0.21	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	0.13	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	0.23	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	0.22	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	0.21	ug/l	
11096-82-5	Aroclor 1260 [a]	ND	0.25	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	0.087	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		10-169%
877-09-8	Tetrachloro-m-xylene	75%		10-169%
2051-24-3	Decachlorobiphenyl	47%		10-130%
2051-24-3	Decachlorobiphenyl	47%		10-130%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FB-1
Lab Sample ID: JD91204-18
Matrix: AQ - Field Blank Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/26/24
Date Received: 06/26/24
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Antimony	< 6.0	6.0	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Calcium	< 5000	5000	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Copper	< 10	10	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Iron	< 100	100	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Magnesium	< 5000	5000	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Manganese	< 15	15	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	06/28/24	07/01/24	MK	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 10	10	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Potassium	< 10000	10000	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Sodium	< 10000	10000	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Vanadium	< 50	50	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA56360
(2) Instrument QC Batch: MA56386
(3) Prep QC Batch: MP47574
(4) Prep QC Batch: MP47597

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	JD91204-18	**Date Sampled:**	06/26/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/26/24
		Percent Solids:	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	06/28/24 19:09	JD	EPA 335.4/LACHAT
Redox Potential Vs H2	412		mv	1	07/02/24 17:01	DB	ASTM D1498-76
pH [a]	6.84		su	1	07/02/24 16:34	JOO	SM4500H+ B-11

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.66 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	FB-2		
Lab Sample ID:	JD91204-19	**Date Sampled:**	06/26/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F220738.D	1	06/29/24 15:02	KLS	06/28/24 15:30	OP55747	EF9807
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	5.0	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	4.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FB-2
Lab Sample ID: JD91204-19
Matrix: AQ - Field Blank Soil
Method: SW846 8270E SW846 3510C
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/26/24
Date Received: 06/26/24
Percent Solids: n/a

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate [a]	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		10-71%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-2		
Lab Sample ID:	JD91204-19	**Date Sampled:**	06/26/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/26/24
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	22%		10-58%
118-79-6	2,4,6-Tribromophenol	64%		22-144%
4165-60-0	Nitrobenzene-d5	61%		28-118%
321-60-8	2-Fluorobiphenyl	63%		34-116%
1718-51-0	Terphenyl-d14	63%		10-127%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FB-2		
Lab Sample ID:	JD91204-19	**Date Sampled:**	06/26/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/26/24
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G197510.D	1	06/29/24 10:00	TP	06/28/24 09:30	OP55744	G1G7068
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0050	0.0026	ug/l	
319-84-6	alpha-BHC	ND	0.0050	0.0026	ug/l	
319-85-7	beta-BHC	ND	0.0050	0.0040	ug/l	
319-86-8	delta-BHC	ND	0.0050	0.0033	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0050	0.0030	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0050	0.0025	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0050	0.0021	ug/l	
57-74-9	Chlordane (alpha and gamma)	ND	0.0050	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.0050	0.0038	ug/l	
72-54-8	4,4'-DDD	ND	0.0050	0.0029	ug/l	
72-55-9	4,4'-DDE	ND	0.0050	0.0025	ug/l	
50-29-3	4,4'-DDT	ND	0.0050	0.0034	ug/l	
72-20-8	Endrin	ND	0.0050	0.0030	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0050	0.0027	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0050	0.0034	ug/l	
53494-70-5	Endrin ketone	ND	0.0050	0.0031	ug/l	
959-98-8	Endosulfan-I	ND	0.0050	0.0026	ug/l	
33213-65-9	Endosulfan-II	ND	0.0050	0.0024	ug/l	
76-44-8	Heptachlor	ND	0.0050	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0050	0.0030	ug/l	
72-43-5	Methoxychlor	ND	0.010	0.0034	ug/l	
8001-35-2	Toxaphene	ND	0.13	0.082	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		10-175%
877-09-8	Tetrachloro-m-xylene	83%		10-175%
2051-24-3	Decachlorobiphenyl	51%		10-128%
2051-24-3	Decachlorobiphenyl	47%		10-128%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FB-2		
Lab Sample ID:	JD91204-19	**Date Sampled:**	06/26/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/26/24
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2513577.D	1	06/29/24 14:18	TP	06/28/24 09:30	OP55745	GXX8562
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016 [a]	ND	0.25	0.098	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	0.21	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	0.13	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	0.23	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	0.22	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	0.21	ug/l	
11096-82-5	Aroclor 1260 [a]	ND	0.25	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	0.087	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		10-169%
877-09-8	Tetrachloro-m-xylene	59%		10-169%
2051-24-3	Decachlorobiphenyl	33%		10-130%
2051-24-3	Decachlorobiphenyl	33%		10-130%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-2		
Lab Sample ID:	JD91204-19	**Date Sampled:**	06/26/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/26/24
		Percent Solids:	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Antimony	< 6.0	6.0	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Calcium	< 5000	5000	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Copper	< 10	10	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Iron	< 100	100	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Magnesium	< 5000	5000	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Manganese	< 15	15	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	06/28/24	07/01/24	MK	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 10	10	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Potassium	< 10000	10000	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Sodium	< 10000	10000	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Vanadium	< 50	50	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	06/28/24	06/29/24	MM	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA56360
(2) Instrument QC Batch: MA56386
(3) Prep QC Batch: MP47574
(4) Prep QC Batch: MP47597

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FB-2		
Lab Sample ID:	JD91204-19	**Date Sampled:**	06/26/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/26/24
		Percent Solids:	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	06/28/24 19:10	JD	EPA 335.4/LACHAT
Redox Potential Vs H2	413		mv	1	07/02/24 17:04	DB	ASTM D1498-76
pH [a]	6.66		su	1	07/02/24 16:34	JOO	SM4500H+ B-11

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.56 Deg. C

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

Parameter Certification Exceptions

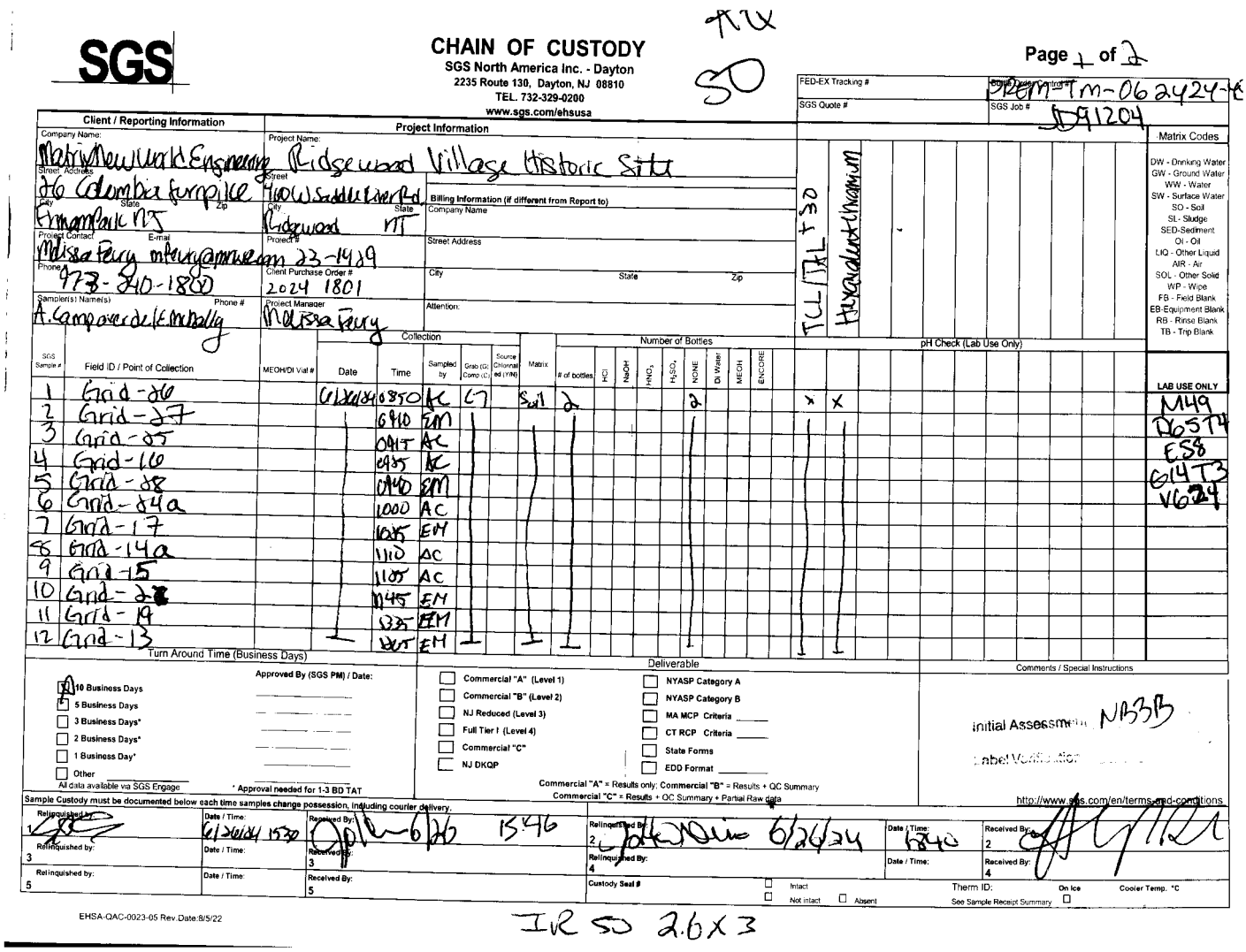
Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Redox Potential Vs H2		**ASTM D1498-76M**	SO	SGS is not certified for this parameter.[a]
Redox Potential Vs H2		**ASTM D1498-76**	AQ	SGS is not certified for this parameter.[a]

(a) Lab cert for analyte not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.



SGS

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

Page 1 of 2

FED-EX Tracking #

Bottle Order Control #

SGS Quote #

SGS Job # JD91204

Client / Reporting Information

Company Name: Mott MacDonald New World Engineering
Street Address: 216 Columbia Turnpike
City: Florham Park State: NJ Zip:
Project Contact: Melissa Feury E-mail: melissa.feury@mottmac.com
Phone: 973-340-1800
Sampler(s) Name(s): A. Campoverde/E. Mobilia Phone #:

Project Information

Project Name: Ridgewood Village Historic Site
Street: 140 W. Saddle River Rd
City: Ridgewood State: NJ
Project #: 423-1489
Client Purchase Order #: 2024 1801
Project Manager: Melissa Feury

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	pH Check (Lab Use Only)		LAB USE ONLY
1	Grid - 20		6/12/24	0850	AC	G		Soil	2					2				X	X	M49
2	Grid - 27			0910	EM															D65T4
3	Grid - 25			0917	AC															ES8
4	Grid - 16			0935	AC															614T3
5	Grid - 28			0940	EM															V629
6	Grid - 24a			1000	AC															
7	Grid - 17			1005	EM															
8	Grid - 14a			1110	AC															
9	Grid - 15			1105	AC															
10	Grid - 23			1145	EM															
11	Grid - 19			1325	EM															
12	Grid - 13			1405	EM															

TCL / TAL + 30
Hexavalent Chromium

Turn Around Time (Business Days)

- [X] 10 Business Days
- [X] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

Approved By (SGS PM) / Date:

All data available via SGS Engage

* Approval needed for 1-3 BD TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Initial Assessment NB3B

Label Verification

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:
1		6/13/24 1530	
2			6/14/24 1546
3			
4			6/24/24 1840
5			

Custody Seal # [ ] Intact [ ] Not Intact [ ] Absent

Therm ID: See Sample Receipt Summary

On Ice [ ] Cooler Temp. °C

EHSA-QAC-0023-05 Rev.Date:8/5/22

IR 50 2.6X3

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

Page 2 of 2

FED-EX Tracking # | Bottle Order Control #
SGS Quote # | SGS Job # JD91204

Client / Reporting Information

Company Name: Matrix New World Engineering
Street Address: 26 Columbia Turnpike
City / State / Zip: Florham Park NJ.
Project Contact / E-mail: Melissa Feury mfeury@mnwe.com
Phone #: 973-240-1800
Sampler(s) Name(s) / Phone #: A. Campoverde/E. McNally
Project Manager: Melissa Feury

Project Information

Project Name: Ridgewood Village Historic Site
Street: 460 West River Rd
City / State: Ridgewood NJ.
Project #: 23-1429
Client Purchase Order #: 2024 1801

Billing Information (if different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention:

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Source Code (Ground Water Only) (Y/N)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	pH Check (Lab Use Only)		LAB USE ONLY
13	Grid-1		6/26/24	1135	AC	G		Soil	2					2				X	X	
14	Grid-18			1315	EM															
15	Grid-13a			1355	AC															
16	Grid-22-a			1355	EM															
17	Grid-23			1405	AC															
18	FB-1			1030	MF													X	X	
19	FB-2			1000														X	X	
~~20~~																				

FCL/TAL + 30
Hexavalent Chromium

Turn Around Time (Business Days)

Approved By (SGS PM) / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via SGS Engage
* Approval needed for 1-3 BD TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:	Relinquished by:	Date / Time:	Received By:
1		6/26/24 1530	6/26 15:46	2	6/26/24 1800	
3			3	4		4
5			5			

Custody Seal # | Intact | Not intact | Absent
Therm ID: | On Ice | Cooler Temp. °C | See Sample Receipt Summary

EHSA-QAC-0023-05 Rev.Date:8/5/22

FIL SO 2.6X3

SGS Sample Receipt Summary

Job Number: JD91204 **Client:** MATRIX NEW WORLD ENGINEERING, IN **Project:** RIDGEWOOD BERM SAMPLING, RIDGE

Date / Time Received: 6/26/2024 6:40:00 PM **Delivery Method:** SGS **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.6); Cooler 2: (2.6); Cooler 3: (2.6);

Cooler Temps (Corrected) °C: Cooler 1: (3.0); Cooler 2: (3.0); Cooler 3: (3.0);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	3		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Job Change Order: JD91204

Requested Date:	7/31/2024	**Received Date:**	6/26/2024
Account Name:	Matrix New World Engineering, In	**Due Date:**	7/31/2024
Project Description:	Ridgewood Berm Sampling, Ridgewood, NJ	**Deliverable:**	REDT2
C/O Initiated By:	TAMMY_MC **PM:** TM	**TAT (Days):**	0

==========

Sample #: JD91204-All **Dept:**

Client ID: **TAT:** 0

Change: Please no out VO data and reissue report

Above Changes Per: Melissa Feury **Date/Time:** 7/31/2024

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD91204: Chain of Custody
Page 4 of 4

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD91204

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429 PO#2024 1801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD91204-1 GRID-26	Collected: 26-JUN-24 08:50 By: AC		Received: 26-JUN-24 By: HR			
JD91204-1	SW846 9045D	28-JUN-24 13:47	MM			PHTEMP
JD91204-1	ASTM D1498-76M	28-JUN-24 14:09	MM			EH
JD91204-1	SW846 6010D	28-JUN-24 15:57	MM	28-JUN-24	NV	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91204-1	SW846 9012B/LACHAT	28-JUN-24 17:55	JD	28-JUN-24	MS	CN
JD91204-1	SM2540 G 18TH ED MOD	29-JUN-24 14:00	MK			SOL104
JD91204-1	SW846 8082A	01-JUL-24 03:11	CP	29-JUN-24	IS	P8082PCB11AO
JD91204-1	SW846 7471B	01-JUL-24 13:12	MK	28-JUN-24	CB	HG
JD91204-1	SW846 3060A/7196A	01-JUL-24 17:03	RI	28-JUN-24	RI	XCRA
JD91204-1	SW846 8270E	01-JUL-24 20:34	KM	30-JUN-24	AB	AB8270TCL20+
JD91204-1	SW846 8081B	02-JUL-24 09:59	CP	29-JUN-24	IS	P8081PESTTCL
JD91204-2 GRID-27	Collected: 26-JUN-24 09:10 By: AC		Received: 26-JUN-24 By: HR			
JD91204-2	SW846 9045D	28-JUN-24 13:50	MM			PHTEMP
JD91204-2	ASTM D1498-76M	28-JUN-24 14:18	MM			EH
JD91204-2	SW846 6010D	28-JUN-24 16:17	MM	28-JUN-24	NV	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91204-2	SW846 9012B/LACHAT	28-JUN-24 17:56	JD	28-JUN-24	MS	CN
JD91204-2	SM2540 G 18TH ED MOD	29-JUN-24 14:00	MK			SOL104
JD91204-2	SW846 8081B	01-JUL-24 02:33	CP	29-JUN-24	IS	P8081PESTTCL
JD91204-2	SW846 8082A	01-JUL-24 03:28	CP	29-JUN-24	IS	P8082PCB11AO
JD91204-2	SW846 7471B	01-JUL-24 13:14	MK	28-JUN-24	CB	HG
JD91204-2	SW846 8270E	01-JUL-24 14:57	KM	30-JUN-24	AB	AB8270TCL20+
JD91204-2	SW846 3060A/7196A	01-JUL-24 17:14	RI	28-JUN-24	RI	XCRA
JD91204-3 GRID-25	Collected: 26-JUN-24 09:15 By: AC		Received: 26-JUN-24 By: HR			
JD91204-3	SW846 9045D	28-JUN-24 13:51	MM			PHTEMP
JD91204-3	ASTM D1498-76M	28-JUN-24 14:19	MM			EH
JD91204-3	SW846 6010D	28-JUN-24 16:32	MM	28-JUN-24	NV	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD91204

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429 PO#2024 1801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD91204-3	SW846 9012B/LACHAT	28-JUN-24 17:57	JD	28-JUN-24	MS	CN
JD91204-3	SM2540 G 18TH ED MOD.	29-JUN-24 14:00	MK			SOL104
JD91204-3	SW846 8081B	01-JUL-24 02:54	CP	29-JUN-24	IS	P8081PESTTCL
JD91204-3	SW846 8082A	01-JUL-24 03:44	CP	29-JUN-24	IS	P8082PCB11AO
JD91204-3	SW846 7471B	01-JUL-24 13:16	MK	28-JUN-24	CB	HG
JD91204-3	SW846 8270E	01-JUL-24 15:16	KM	30-JUN-24	AB	AB8270TCL20+
JD91204-3	SW846 3060A/7196A	01-JUL-24 17:14	RI	28-JUN-24	RI	XCRA
JD91204-4	Collected: 26-JUN-24 09:25 By: AC		Received: 26-JUN-24 By: HR			
GRID-16						
JD91204-4	SW846 9045D	28-JUN-24 13:54	MM			PHTEMP
JD91204-4	ASTM D1498-76M	28-JUN-24 14:21	MM			EH
JD91204-4	SW846 6010D	28-JUN-24 16:37	MM	28-JUN-24	NV	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91204-4	SW846 9012B/LACHAT	28-JUN-24 17:59	JD	28-JUN-24	MS	CN
JD91204-4	SM2540 G 18TH ED MOD.	29-JUN-24 14:00	MK			SOL104
JD91204-4	SW846 8081B	01-JUL-24 03:15	CP	29-JUN-24	IS	P8081PESTTCL
JD91204-4	SW846 8082A	01-JUL-24 04:01	CP	29-JUN-24	IS	P8082PCB11AO
JD91204-4	SW846 7471B	01-JUL-24 13:17	MK	28-JUN-24	CB	HG
JD91204-4	SW846 3060A/7196A	01-JUL-24 17:14	RI	28-JUN-24	RI	XCRA
JD91204-4	SW846 8270E	01-JUL-24 20:53	KM	30-JUN-24	AB	AB8270TCL20+
JD91204-5	Collected: 26-JUN-24 09:40 By: AC		Received: 26-JUN-24 By: HR			
GRID-28						
JD91204-5	SW846 9045D	28-JUN-24 13:57	MM			PHTEMP
JD91204-5	ASTM D1498-76M	28-JUN-24 14:26	MM			EH
JD91204-5	SW846 6010D	28-JUN-24 16:42	MM	28-JUN-24	NV	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91204-5	SW846 9012B/LACHAT	28-JUN-24 18:00	JD	28-JUN-24	MS	CN
JD91204-5	SM2540 G 18TH ED MOD.	29-JUN-24 14:00	MK			SOL104
JD91204-5	SW846 8081B	01-JUL-24 03:36	CP	29-JUN-24	IS	P8081PESTTCL
JD91204-5	SW846 8082A	01-JUL-24 04:18	CP	29-JUN-24	IS	P8082PCB11AO
JD91204-5	SW846 7471B	01-JUL-24 13:23	MK	28-JUN-24	CB	HG
JD91204-5	SW846 3060A/7196A	01-JUL-24 17:14	RI	28-JUN-24	RI	XCRA
JD91204-5	SW846 8270E	01-JUL-24 19:19	KM	30-JUN-24	AB	AB8270TCL20+
JD91204-5	SW846 8081B	02-JUL-24 08:14	CP	29-JUN-24	IS	P8081PESTTCL

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD91204

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429 PO#2024 1801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD91204-6 GRID-24A	Collected: 26-JUN-24 10:00 By: AC		Received: 26-JUN-24 By: HR			
JD91204-6	SW846 9045D	28-JUN-24 14:09	MM			PHTEMP
JD91204-6	ASTM D1498-76M	28-JUN-24 14:37	MM			EH
JD91204-6	SW846 6010D	28-JUN-24 16:47	MM	28-JUN-24	NV	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91204-6	SW846 9012B/LACHAT	28-JUN-24 18:01	JD	28-JUN-24	MS	CN
JD91204-6	SM2540 G 18TH ED MOD.	29-JUN-24 14:00	MK			SOL104
JD91204-6	SW846 8081B	01-JUL-24 03:58	CP	29-JUN-24	IS	P8081PESTTCL
JD91204-6	SW846 8082A	01-JUL-24 04:35	CP	29-JUN-24	IS	P8082PCB11AO
JD91204-6	SW846 7471B	01-JUL-24 13:24	MK	28-JUN-24	CB	HG
JD91204-6	SW846 3060A/7196A	01-JUL-24 17:14	RI	28-JUN-24	RI	XCRA
JD91204-6	SW846 8270E	01-JUL-24 21:11	KM	30-JUN-24	AB	AB8270TCL20+
JD91204-7 GRID-17	Collected: 26-JUN-24 10:25 By: AC		Received: 26-JUN-24 By: HR			
JD91204-7	SW846 9045D	28-JUN-24 14:10	MM			PHTEMP
JD91204-7	ASTM D1498-76M	28-JUN-24 14:38	MM			EH
JD91204-7	SW846 6010D	28-JUN-24 16:52	MM	28-JUN-24	NV	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91204-7	SW846 9012B/LACHAT	28-JUN-24 18:02	JD	28-JUN-24	MS	CN
JD91204-7	SM2540 G 18TH ED MOD.	29-JUN-24 14:00	MK			SOL104
JD91204-7	SW846 8081B	01-JUL-24 04:19	CP	29-JUN-24	IS	P8081PESTTCL
JD91204-7	SW846 8082A	01-JUL-24 04:51	CP	29-JUN-24	IS	P8082PCB11AO
JD91204-7	SW846 7471B	01-JUL-24 13:26	MK	28-JUN-24	CB	HG
JD91204-7	SW846 3060A/7196A	01-JUL-24 17:14	RI	28-JUN-24	RI	XCRA
JD91204-7	SW846 8270E	01-JUL-24 21:30	KM	30-JUN-24	AB	AB8270TCL20+
JD91204-7	SW846 8081B	02-JUL-24 08:35	CP	29-JUN-24	IS	P8081PESTTCL
JD91204-8 GRID-14A	Collected: 26-JUN-24 11:10 By: AC		Received: 26-JUN-24 By: HR			
JD91204-8	SW846 9045D	28-JUN-24 14:11	MM			PHTEMP
JD91204-8	ASTM D1498-76M	28-JUN-24 14:41	MM			EH

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD91204

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429 PO#2024 1801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD91204-8	SW846 6010D	28-JUN-24 16:57	MM	28-JUN-24	NV	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91204-8	SW846 9012B/LACHAT	28-JUN-24 18:03	JD	28-JUN-24	MS	CN
JD91204-8	SM2540 G 18TH ED MOD	29-JUN-24 14:00	MK			SOL104
JD91204-8	SW846 8081B	01-JUL-24 04:40	CP	29-JUN-24	IS	P8081PESTTCL
JD91204-8	SW846 8082A	01-JUL-24 05:08	CP	29-JUN-24	IS	P8082PCB11AO
JD91204-8	SW846 7471B	01-JUL-24 13:28	MK	28-JUN-24	CB	HG
JD91204-8	SW846 8270E	01-JUL-24 15:35	KM	30-JUN-24	AB	AB8270TCL20+
JD91204-8	SW846 3060A/7196A	01-JUL-24 17:14	RI	28-JUN-24	RI	XCRA
JD91204-9	Collected: 26-JUN-24 11:25 By: AC			Received: 26-JUN-24 By: HR		
GRID-15						
JD91204-9	SW846 9045D	28-JUN-24 14:13	MM			PHTEMP
JD91204-9	ASTM D1498-76M	28-JUN-24 14:45	MM			EH
JD91204-9	SW846 6010D	28-JUN-24 17:02	MM	28-JUN-24	NV	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91204-9	SW846 9012B/LACHAT	28-JUN-24 18:04	JD	28-JUN-24	MS	CN
JD91204-9	SM2540 G 18TH ED MOD	29-JUN-24 14:00	MK			SOL104
JD91204-9	SW846 8082A	01-JUL-24 05:25	CP	29-JUN-24	IS	P8082PCB11AO
JD91204-9	SW846 7471B	01-JUL-24 13:29	MK	28-JUN-24	CB	HG
JD91204-9	SW846 3060A/7196A	01-JUL-24 17:14	RI	28-JUN-24	RI	XCRA
JD91204-9	SW846 8270E	01-JUL-24 21:49	KM	30-JUN-24	AB	AB8270TCL20+
JD91204-9	SW846 8081B	02-JUL-24 10:20	CP	29-JUN-24	IS	P8081PESTTCL
JD91204-10	Collected: 26-JUN-24 11:45 By: AC			Received: 26-JUN-24 By: HR		
GRID-2						
JD91204-10	SW846 9045D	28-JUN-24 14:19	MM			PHTEMP
JD91204-10	ASTM D1498-76M	28-JUN-24 14:56	MM			EH
JD91204-10	SW846 6010D	28-JUN-24 17:07	MM	28-JUN-24	NV	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91204-10	SW846 9012B/LACHAT	28-JUN-24 18:05	JD	28-JUN-24	MS	CN
JD91204-10	SM2540 G 18TH ED MOD	29-JUN-24 14:00	MK			SOL104
JD91204-10	SW846 8081B	01-JUL-24 05:22	CP	29-JUN-24	IS	P8081PESTTCL
JD91204-10	SW846 8082A	01-JUL-24 05:42	CP	29-JUN-24	IS	P8082PCB11AO
JD91204-10	SW846 7471B	01-JUL-24 13:31	MK	28-JUN-24	CB	HG

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD91204

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429 PO#2024 1801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD91204-10	SW846 3060A/7196A	01-JUL-24 17:14	RI	28-JUN-24	RI	XCRA
JD91204-10	SW846 8270E	01-JUL-24 19:38	KM	30-JUN-24	AB	AB8270TCL20+
JD91204-10	SW846 8081B	02-JUL-24 08:56	CP	29-JUN-24	IS	P8081PESTTCL
JD91204-11	Collected: 26-JUN-24 13:35 By: AC			Received: 26-JUN-24 By: HR		
GRID-19						
JD91204-11	SW846 9045D	28-JUN-24 14:20	MM			PHTEMP
JD91204-11	ASTM D1498-76M	28-JUN-24 15:00	MM			EH
JD91204-11	SW846 6010D	28-JUN-24 17:12	MM	28-JUN-24	NV	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91204-11	SW846 9012B/LACHAT	28-JUN-24 18:06	JD	28-JUN-24	MS	CN
JD91204-11	SM2540 G 18TH ED MOD.	29-JUN-24 14:00	MK			SOL104
JD91204-11	SW846 8081B	01-JUL-24 05:43	CP	29-JUN-24	IS	P8081PESTTCL
JD91204-11	SW846 8082A	01-JUL-24 05:59	CP	29-JUN-24	IS	P8082PCB11AO
JD91204-11	SW846 7471B	01-JUL-24 13:33	MK	28-JUN-24	CB	HG
JD91204-11	SW846 3060A/7196A	01-JUL-24 17:14	RI	28-JUN-24	RI	XCRA
JD91204-11	SW846 8270E	01-JUL-24 22:08	KM	30-JUN-24	AB	AB8270TCL20+
JD91204-12	Collected: 26-JUN-24 12:05 By: AC			Received: 26-JUN-24 By: HR		
GRID-13						
JD91204-12	SW846 9045D	28-JUN-24 14:26	MM			PHTEMP
JD91204-12	ASTM D1498-76M	28-JUN-24 15:01	MM			EH
JD91204-12	SW846 6010D	28-JUN-24 17:17	MM	28-JUN-24	NV	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91204-12	SW846 9012B/LACHAT	28-JUN-24 18:07	JD	28-JUN-24	MS	CN
JD91204-12	SM2540 G 18TH ED MOD.	29-JUN-24 14:00	MK			SOL104
JD91204-12	SW846 8081B	01-JUL-24 06:04	CP	29-JUN-24	IS	P8081PESTTCL
JD91204-12	SW846 8082A	01-JUL-24 06:15	CP	29-JUN-24	IS	P8082PCB11AO
JD91204-12	SW846 7471B	01-JUL-24 13:34	MK	28-JUN-24	CB	HG
JD91204-12	SW846 8270E	01-JUL-24 15:54	KM	30-JUN-24	AB	AB8270TCL20+
JD91204-12	SW846 3060A/7196A	01-JUL-24 17:20	RI	28-JUN-24	RI	XCRA
JD91204-13	Collected: 26-JUN-24 11:35 By: AC			Received: 26-JUN-24 By: HR		
GRID-1						
JD91204-13	SW846 9045D	28-JUN-24 14:27	MM			PHTEMP

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD91204

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429 PO#2024 1801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD91204-13	ASTM D1498-76M	28-JUN-24 15:02	MM			EH
JD91204-13	SW846 6010D	28-JUN-24 17:32	MM	28-JUN-24	NV	AG,AL,AS,BA,BE,CA,CD,CO,CR,K,MG,MN,NA,NI,PB,SB,TL,V,ZN
JD91204-13	SW846 9012B/LACHAT	28-JUN-24 18:08	JD	28-JUN-24	MS	CN
JD91204-13	SM2540 G 18TH ED MOD.	29-JUN-24 14:00	MK			SOL104
JD91204-13	SW846 6010D	30-JUN-24 12:46	MM	28-JUN-24	NV	CU,FE,SE
JD91204-13	SW846 8081B	01-JUL-24 06:25	CP	29-JUN-24	IS	P8081PESTTCL
JD91204-13	SW846 8082A	01-JUL-24 06:32	CP	29-JUN-24	IS	P8082PCB11AO
JD91204-13	SW846 7471B	01-JUL-24 13:39	MK	28-JUN-24	CB	HG
JD91204-13	SW846 8270E	01-JUL-24 16:12	KM	30-JUN-24	AB	AB8270TCL20+
JD91204-13	SW846 3060A/7196A	01-JUL-24 17:20	RI	28-JUN-24	RI	XCRA
JD91204-14	Collected: 26-JUN-24 12:15 By: AC			Received: 26-JUN-24 By: HR		
GRID-18						
JD91204-14	SW846 9045D	28-JUN-24 14:29	MM			PHTEMP
JD91204-14	ASTM D1498-76M	28-JUN-24 15:06	MM			EH
JD91204-14	SW846 6010D	28-JUN-24 17:37	MM	28-JUN-24	NV	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91204-14	SW846 9012B/LACHAT	28-JUN-24 18:10	JD	28-JUN-24	MS	CN
JD91204-14	SM2540 G 18TH ED MOD.	29-JUN-24 14:00	MK			SOL104
JD91204-14	SW846 8082A	01-JUL-24 07:56	CP	29-JUN-24	IS	P8082PCB11AO
JD91204-14	SW846 7471B	01-JUL-24 13:41	MK	28-JUN-24	CB	HG
JD91204-14	SW846 3060A/7196A	01-JUL-24 17:20	RI	28-JUN-24	RI	XCRA
JD91204-14	SW846 8270E	01-JUL-24 20:15	KM	30-JUN-24	AB	AB8270TCL20+
JD91204-14	SW846 8081B	02-JUL-24 10:41	CP	29-JUN-24	IS	P8081PESTTCL
JD91204-14	SW846 8270E	02-JUL-24 15:44	JY	30-JUN-24	AB	AB8270TCL20+
JD91204-15	Collected: 26-JUN-24 12:55 By: AC			Received: 26-JUN-24 By: HR		
GRID-12A						
JD91204-15	SW846 9045D	28-JUN-24 14:30	MM			PHTEMP
JD91204-15	ASTM D1498-76M	28-JUN-24 15:07	MM			EH
JD91204-15	SW846 6010D	28-JUN-24 17:42	MM	28-JUN-24	NV	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91204-15	SW846 9012B/LACHAT	28-JUN-24 18:11	JD	28-JUN-24	MS	CN
JD91204-15	SM2540 G 18TH ED MOD.	29-JUN-24 14:00	MK			SOL104
JD91204-15	SW846 8081B	01-JUL-24 07:07	CP	29-JUN-24	IS	P8081PESTTCL

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD91204

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429 PO#2024 1801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD91204-15	SW846 8082A	01-JUL-24 08:13	CP	29-JUN-24	IS	P8082PCB11AO
JD91204-15	SW846 7471B	01-JUL-24 13:43	MK	28-JUN-24	CB	HG
JD91204-15	SW846 8270E	01-JUL-24 16:31	KM	30-JUN-24	AB	AB8270TCL20+
JD91204-15	SW846 3060A/7196A	01-JUL-24 17:20	RI	28-JUN-24	RI	XCRA
JD91204-16	Collected: 26-JUN-24 13:55 By: AC			Received: 26-JUN-24 By: HR		
GRID-22A						
JD91204-16	SW846 9045D	28-JUN-24 14:31	MM			PHTEMP
JD91204-16	ASTM D1498-76M	28-JUN-24 15:09	MM			EH
JD91204-16	SW846 6010D	28-JUN-24 17:47	MM	28-JUN-24	NV	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91204-16	SW846 9012B/LACHAT	28-JUN-24 18:12	JD	28-JUN-24	MS	CN
JD91204-16	SM2540 G 18TH ED MOD.	29-JUN-24 14:00	MK			SOL104
JD91204-16	SW846 8081B	01-JUL-24 07:28	CP	29-JUN-24	IS	P8081PESTTCL
JD91204-16	SW846 8082A	01-JUL-24 08:30	CP	29-JUN-24	IS	P8082PCB11AO
JD91204-16	SW846 7471B	01-JUL-24 13:44	MK	28-JUN-24	CB	HG
JD91204-16	SW846 3060A/7196A	01-JUL-24 17:20	RI	28-JUN-24	RI	XCRA
JD91204-16	SW846 8270E	01-JUL-24 19:57	KM	30-JUN-24	AB	AB8270TCL20+
JD91204-17	Collected: 26-JUN-24 14:05 By: AC			Received: 26-JUN-24 By: HR		
GRID-23						
JD91204-17	SW846 9045D	28-JUN-24 14:32	MM			PHTEMP
JD91204-17	ASTM D1498-76M	28-JUN-24 15:10	MM			EH
JD91204-17	SW846 6010D	28-JUN-24 17:52	MM	28-JUN-24	NV	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91204-17	SW846 9012B/LACHAT	28-JUN-24 18:13	JD	28-JUN-24	MS	CN
JD91204-17	SM2540 G 18TH ED MOD.	29-JUN-24 14:00	MK			SOL104
JD91204-17	SW846 8081B	01-JUL-24 07:49	CP	29-JUN-24	IS	P8081PESTTCL
JD91204-17	SW846 8082A	01-JUL-24 08:46	CP	29-JUN-24	IS	P8082PCB11AO
JD91204-17	SW846 7471B	01-JUL-24 13:46	MK	28-JUN-24	CB	HG
JD91204-17	SW846 8270E	01-JUL-24 16:50	KM	30-JUN-24	AB	AB8270TCL20+
JD91204-17	SW846 3060A/7196A	01-JUL-24 17:20	RI	28-JUN-24	RI	XCRA
JD91204-18	Collected: 26-JUN-24 10:30 By: AC			Received: 26-JUN-24 By: HR		
FB-1						

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD91204

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429 PO#2024 1801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD91204-18	EPA 335.4/LACHAT	28-JUN-24 19:09	JD	28-JUN-24	MS	CN
JD91204-18	SW846 6010D	29-JUN-24 01:57	MM	28-JUN-24	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91204-18	SW846 8081B	29-JUN-24 09:44	TP	28-JUN-24	ED	P8081PESTTCL
JD91204-18	SW846 8082A	29-JUN-24 14:01	TP	28-JUN-24	ED	P8082PCB11AO
JD91204-18	SW846 8270E	29-JUN-24 14:36	KLS	28-JUN-24	VP	AB8270TCL20+
JD91204-18	SW846 7470A	01-JUL-24 14:48	MK	28-JUN-24	MK	HG
JD91204-18	SM4500H+ B-11	02-JUL-24 16:34	JOO			PHLABTEMP
JD91204-18	ASTM D1498-76	02-JUL-24 17:01	DB			EH
JD91204-19	Collected: 26-JUN-24 12:00 By: AC		Received: 26-JUN-24 By: HR			
FB-2						
JD91204-19	EPA 335.4/LACHAT	28-JUN-24 19:10	JD	28-JUN-24	MS	CN
JD91204-19	SW846 6010D	29-JUN-24 02:01	MM	28-JUN-24	BP	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91204-19	SW846 8081B	29-JUN-24 10:00	TP	28-JUN-24	ED	P8081PESTTCL
JD91204-19	SW846 8082A	29-JUN-24 14:18	TP	28-JUN-24	ED	P8082PCB11AO
JD91204-19	SW846 8270E	29-JUN-24 15:02	KLS	28-JUN-24	VP	AB8270TCL20+
JD91204-19	SW846 7470A	01-JUL-24 14:50	MK	28-JUN-24	MK	HG
JD91204-19	SM4500H+ B-11	02-JUL-24 16:34	JOO			PHLABTEMP
JD91204-19	ASTM D1498-76	02-JUL-24 17:04	DB			EH

SGS Internal Chain of Custody

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/26/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91204-1.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-1.1	Secured Storage	Maged Mekhail	06/27/24 20:29	Retrieve from Storage
JD91204-1.1	Maged Mekhail	Secured Storage	06/27/24 23:12	Return to Storage
JD91204-1.1	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-1.1	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-1.1	Secured Staging Area	Marcin Kotowski	06/28/24 13:25	Retrieve from Storage
JD91204-1.1	Marcin Kotowski	Secured Storage	06/28/24 18:13	Return to Storage
JD91204-1.1	Secured Storage	Ellen Dondeo	06/29/24 10:00	Retrieve from Storage
JD91204-1.1	Ellen Dondeo	Secured Staging Area	06/29/24 16:56	Return to Storage
JD91204-1.1	Secured Staging Area	Amin Bhavin	07/01/24 06:20	Retrieve from Storage
JD91204-1.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91204-1.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage
JD91204-1.1.1	Ellen Dondeo	Organics Prep	06/29/24 10:01	Extract from JD91204-1.1
JD91204-1.1.2	Ellen Dondeo	Organics Prep	06/29/24 10:01	Extract from JD91204-1.1
JD91204-1.1.3	Ellen Dondeo	Organics Prep	06/29/24 10:02	Extract from JD91204-1.1
JD91204-1.1.4	Ellen Dondeo	Organics Prep	06/29/24 10:21	Extract from JD91204-1.1
JD91204-1.1.4	Amin Bhavin	Extract Storage	07/01/24 11:12	Return to Storage
JD91204-1.1.4	Organics Prep	Amin Bhavin	07/01/24 11:12	Extract from JD91204-1.1
JD91204-1.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-1.2	Secured Storage	Aleandi Rodriguez	06/27/24 23:04	Retrieve from Storage
JD91204-1.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 23:04	Return to Storage
JD91204-1.2	Secured Staging Area	Brianna Perez	06/28/24 06:46	Retrieve from Storage
JD91204-1.2	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-1.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91204-1.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91204-1.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91204-1.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91204-1.2.1	Brianna Perez	Metals Digestion	06/28/24 12:55	Digestate from JD91204-1.2
JD91204-1.2.1	Metals Digestion	Brianna Perez	06/28/24 12:55	Digestate from JD91204-1.2
JD91204-1.2.1	Brianna Perez	Metals Digestate Storage	06/28/24 12:55	Return to Storage
JD91204-2.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-2.1	Secured Storage	Maged Mekhail	06/27/24 20:29	Retrieve from Storage
JD91204-2.1	Maged Mekhail	Secured Storage	06/27/24 23:12	Return to Storage
JD91204-2.1	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-2.1	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-2.1	Secured Staging Area	Marcin Kotowski	06/28/24 13:25	Retrieve from Storage
JD91204-2.1	Marcin Kotowski	Secured Storage	06/28/24 18:13	Return to Storage

SGS Internal Chain of Custody

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/26/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91204-2.1	Secured Staging Area	Ellen Dondeo	06/29/24 09:54	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD91204-2.1	Ellen Dondeo	Secured Staging Area	06/29/24 16:56	Return to Storage
JD91204-2.1	Secured Staging Area	Amin Bhavin	07/01/24 06:20	Retrieve from Storage
JD91204-2.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91204-2.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage
JD91204-2.1.1	Ellen Dondeo	Organics Prep	06/29/24 10:00	Extract from JD91204-2.1
JD91204-2.1.2	Ellen Dondeo	Organics Prep	06/29/24 10:01	Extract from JD91204-2.1
JD91204-2.1.3	Ellen Dondeo	Organics Prep	06/29/24 10:02	Extract from JD91204-2.1
JD91204-2.1.4	Ellen Dondeo	Organics Prep	06/29/24 10:21	Extract from JD91204-2.1
JD91204-2.1.4	Amin Bhavin	Extract Storage	07/01/24 11:12	Return to Storage
JD91204-2.1.4	Organics Prep	Amin Bhavin	07/01/24 11:12	Extract from JD91204-2.1
JD91204-2.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-2.2	Secured Storage	Aleandi Rodriguez	06/27/24 23:04	Retrieve from Storage
JD91204-2.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 23:04	Return to Storage
JD91204-2.2	Secured Staging Area	Brianna Perez	06/28/24 06:46	Retrieve from Storage
JD91204-2.2	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-2.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91204-2.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91204-2.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91204-2.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91204-2.2.1	Brianna Perez	Metals Digestion	06/28/24 12:55	Digestate from JD91204-2.2
JD91204-2.2.1	Metals Digestion	Brianna Perez	06/28/24 12:55	Digestate from JD91204-2.2
JD91204-2.2.1	Brianna Perez	Metals Digestate Storage	06/28/24 12:55	Return to Storage
JD91204-3.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-3.1	Secured Storage	Maged Mekhail	06/27/24 20:29	Retrieve from Storage
JD91204-3.1	Maged Mekhail	Secured Storage	06/27/24 23:12	Return to Storage
JD91204-3.1	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-3.1	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-3.1	Secured Staging Area	Marcin Kotowski	06/28/24 13:25	Retrieve from Storage
JD91204-3.1	Marcin Kotowski	Secured Storage	06/28/24 18:13	Return to Storage
JD91204-3.1	Secured Staging Area	Ellen Dondeo	06/29/24 09:54	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD91204-3.1	Ellen Dondeo	Secured Staging Area	06/29/24 16:56	Return to Storage
JD91204-3.1	Secured Staging Area	Amin Bhavin	07/01/24 06:20	Retrieve from Storage
JD91204-3.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91204-3.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage

SGS Internal Chain of Custody

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/26/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91204-3.1.1	Ellen Dondeo	Organics Prep	06/29/24 10:00	Extract from JD91204-3.1
JD91204-3.1.2	Ellen Dondeo	Organics Prep	06/29/24 10:01	Extract from JD91204-3.1
JD91204-3.1.3	Ellen Dondeo	Organics Prep	06/29/24 10:02	Extract from JD91204-3.1
JD91204-3.1.4	Ellen Dondeo	Organics Prep	06/29/24 10:21	Extract from JD91204-3.1
JD91204-3.1.4	Amin Bhavin	Extract Storage	07/01/24 11:12	Return to Storage
JD91204-3.1.4	Organics Prep	Amin Bhavin	07/01/24 11:12	Extract from JD91204-3.1
JD91204-3.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-3.2	Secured Storage	Aleandi Rodriguez	06/27/24 23:04	Retrieve from Storage
JD91204-3.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 23:04	Return to Storage
JD91204-3.2	Secured Staging Area	Brianna Perez	06/28/24 06:46	Retrieve from Storage
JD91204-3.2	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-3.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91204-3.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91204-3.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91204-3.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91204-3.2.1	Brianna Perez	Metals Digestion	06/28/24 12:55	Digestate from JD91204-3.2
JD91204-3.2.1	Metals Digestion	Brianna Perez	06/28/24 12:55	Digestate from JD91204-3.2
JD91204-3.2.1	Brianna Perez	Metals Digestate Storage	06/28/24 12:55	Return to Storage
JD91204-4.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-4.1	Secured Storage	Maged Mekhail	06/27/24 20:29	Retrieve from Storage
JD91204-4.1	Maged Mekhail	Secured Storage	06/27/24 23:12	Return to Storage
JD91204-4.1	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-4.1	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-4.1	Secured Staging Area	Marcin Kotowski	06/28/24 13:25	Retrieve from Storage
JD91204-4.1	Marcin Kotowski	Secured Storage	06/28/24 18:13	Return to Storage
JD91204-4.1	Secured Staging Area	Ellen Dondeo	06/29/24 09:54	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD91204-4.1	Ellen Dondeo	Secured Staging Area	06/29/24 16:56	Return to Storage
JD91204-4.1	Secured Staging Area	Amin Bhavin	07/01/24 06:20	Retrieve from Storage
JD91204-4.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91204-4.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage
JD91204-4.1.1	Ellen Dondeo	Organics Prep	06/29/24 10:00	Extract from JD91204-4.1
JD91204-4.1.2	Ellen Dondeo	Organics Prep	06/29/24 10:01	Extract from JD91204-4.1
JD91204-4.1.3	Ellen Dondeo	Organics Prep	06/29/24 10:02	Extract from JD91204-4.1

SGS Internal Chain of Custody

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/26/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91204-4.1.4	Ellen Dondeo	Organics Prep	06/29/24 10:21	Extract from JD91204-4.1
JD91204-4.1.4	Amin Bhavin	Extract Storage	07/01/24 11:12	Return to Storage
JD91204-4.1.4	Organics Prep	Amin Bhavin	07/01/24 11:12	Extract from JD91204-4.1
JD91204-4.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-4.2	Secured Storage	Aleandi Rodriguez	06/27/24 23:04	Retrieve from Storage
JD91204-4.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 23:04	Return to Storage
JD91204-4.2	Secured Staging Area	Brianna Perez	06/28/24 06:46	Retrieve from Storage
JD91204-4.2	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-4.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91204-4.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91204-4.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91204-4.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91204-4.2.1	Brianna Perez	Metals Digestion	06/28/24 12:55	Digestate from JD91204-4.2
JD91204-4.2.1	Metals Digestion	Brianna Perez	06/28/24 12:55	Digestate from JD91204-4.2
JD91204-4.2.1	Brianna Perez	Metals Digestate Storage	06/28/24 12:55	Return to Storage
JD91204-5.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-5.1	Secured Storage	Maged Mekhail	06/27/24 20:29	Retrieve from Storage
JD91204-5.1	Maged Mekhail	Secured Storage	06/27/24 23:12	Return to Storage
JD91204-5.1	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-5.1	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-5.1	Secured Staging Area	Marcin Kotowski	06/28/24 13:25	Retrieve from Storage
JD91204-5.1	Marcin Kotowski	Secured Storage	06/28/24 18:13	Return to Storage
JD91204-5.1	Secured Staging Area	Ellen Dondeo	06/29/24 09:54	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD91204-5.1	Ellen Dondeo	Secured Staging Area	06/29/24 16:56	Return to Storage
JD91204-5.1	Secured Staging Area	Amin Bhavin	07/01/24 06:20	Retrieve from Storage
JD91204-5.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91204-5.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage
JD91204-5.1.1	Ellen Dondeo	Organics Prep	06/29/24 10:00	Extract from JD91204-5.1
JD91204-5.1.2	Ellen Dondeo	Organics Prep	06/29/24 10:01	Extract from JD91204-5.1
JD91204-5.1.3	Ellen Dondeo	Organics Prep	06/29/24 10:02	Extract from JD91204-5.1
JD91204-5.1.4	Ellen Dondeo	Organics Prep	06/29/24 10:21	Extract from JD91204-5.1
JD91204-5.1.4	Amin Bhavin	Extract Storage	07/01/24 11:12	Return to Storage
JD91204-5.1.4	Organics Prep	Amin Bhavin	07/01/24 11:12	Extract from JD91204-5.1
JD91204-5.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage

SGS Internal Chain of Custody

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/26/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91204-5.2	Secured Storage	Aleandi Rodriguez	06/27/24 23:04	Retrieve from Storage
JD91204-5.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 23:04	Return to Storage
JD91204-5.2	Secured Staging Area	Brianna Perez	06/28/24 06:46	Retrieve from Storage
JD91204-5.2	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-5.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91204-5.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91204-5.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91204-5.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91204-5.2.1	Brianna Perez	Metals Digestion	06/28/24 12:55	Digestate from JD91204-5.2
JD91204-5.2.1	Metals Digestion	Brianna Perez	06/28/24 12:55	Digestate from JD91204-5.2
JD91204-5.2.1	Brianna Perez	Metals Digestate Storage	06/28/24 12:55	Return to Storage
JD91204-6.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-6.1	Secured Storage	Maged Mekhail	06/27/24 20:29	Retrieve from Storage
JD91204-6.1	Maged Mekhail	Secured Storage	06/27/24 23:12	Return to Storage
JD91204-6.1	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-6.1	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-6.1	Secured Staging Area	Marcin Kotowski	06/28/24 13:25	Retrieve from Storage
JD91204-6.1	Marcin Kotowski	Secured Storage	06/28/24 18:13	Return to Storage
JD91204-6.1	Secured Storage	Ellen Dondeo	06/29/24 09:55	Retrieve from Storage
JD91204-6.1	Ellen Dondeo	Secured Staging Area	06/29/24 16:56	Return to Storage
JD91204-6.1	Secured Staging Area	Amin Bhavin	07/01/24 06:20	Retrieve from Storage
JD91204-6.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91204-6.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage
JD91204-6.1.1	Ellen Dondeo	Organics Prep	06/29/24 10:00	Extract from JD91204-6.1
JD91204-6.1.2	Ellen Dondeo	Organics Prep	06/29/24 10:01	Extract from JD91204-6.1
JD91204-6.1.3	Ellen Dondeo	Organics Prep	06/29/24 10:02	Extract from JD91204-6.1
JD91204-6.1.4	Ellen Dondeo	Organics Prep	06/29/24 10:21	Extract from JD91204-6.1
JD91204-6.1.4	Amin Bhavin	Extract Storage	07/01/24 11:12	Return to Storage
JD91204-6.1.4	Organics Prep	Amin Bhavin	07/01/24 11:12	Extract from JD91204-6.1
JD91204-6.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-6.2	Secured Storage	Aleandi Rodriguez	06/27/24 23:04	Retrieve from Storage
JD91204-6.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 23:04	Return to Storage
JD91204-6.2	Secured Staging Area	Brianna Perez	06/28/24 06:46	Retrieve from Storage
JD91204-6.2	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-6.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91204-6.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91204-6.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/26/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91204-6.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91204-6.2.1	Brianna Perez	Metals Digestion	06/28/24 12:55	Digestate from JD91204-6.2
JD91204-6.2.1	Metals Digestion	Brianna Perez	06/28/24 12:55	Digestate from JD91204-6.2
JD91204-6.2.1	Brianna Perez	Metals Digestate Storage	06/28/24 12:55	Return to Storage
JD91204-7.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-7.1	Secured Storage	Maged Mekhail	06/27/24 20:29	Retrieve from Storage
JD91204-7.1	Maged Mekhail	Secured Storage	06/27/24 23:12	Return to Storage
JD91204-7.1	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-7.1	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-7.1	Secured Staging Area	Marcin Kotowski	06/28/24 13:25	Retrieve from Storage
JD91204-7.1	Marcin Kotowski	Secured Storage	06/28/24 18:13	Return to Storage
JD91204-7.1	Secured Staging Area	Ellen Dondeo	06/29/24 09:54	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD91204-7.1	Ellen Dondeo	Secured Staging Area	06/29/24 16:56	Return to Storage
JD91204-7.1	Secured Staging Area	Amin Bhavin	07/01/24 06:20	Retrieve from Storage
JD91204-7.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91204-7.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage
JD91204-7.1.1	Ellen Dondeo	Organics Prep	06/29/24 10:00	Extract from JD91204-7.1
JD91204-7.1.2	Ellen Dondeo	Organics Prep	06/29/24 10:01	Extract from JD91204-7.1
JD91204-7.1.3	Ellen Dondeo	Organics Prep	06/29/24 10:02	Extract from JD91204-7.1
JD91204-7.1.4	Ellen Dondeo	Organics Prep	06/29/24 10:21	Extract from JD91204-7.1
JD91204-7.1.4	Amin Bhavin	Extract Storage	07/01/24 11:12	Return to Storage
JD91204-7.1.4	Organics Prep	Amin Bhavin	07/01/24 11:12	Extract from JD91204-7.1
JD91204-7.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-7.2	Secured Storage	Aleandi Rodriguez	06/27/24 23:04	Retrieve from Storage
JD91204-7.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 23:04	Return to Storage
JD91204-7.2	Secured Staging Area	Brianna Perez	06/28/24 06:46	Retrieve from Storage
JD91204-7.2	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-7.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91204-7.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91204-7.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91204-7.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91204-7.2.1	Brianna Perez	Metals Digestion	06/28/24 12:55	Digestate from JD91204-7.2
JD91204-7.2.1	Metals Digestion	Brianna Perez	06/28/24 12:55	Digestate from JD91204-7.2
JD91204-7.2.1	Brianna Perez	Metals Digestate Storage	06/28/24 12:55	Return to Storage

SGS Internal Chain of Custody

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/26/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91204-8.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-8.1	Secured Storage	Maged Mekhail	06/27/24 20:29	Retrieve from Storage
JD91204-8.1	Maged Mekhail	Secured Storage	06/27/24 23:12	Return to Storage
JD91204-8.1	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-8.1	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-8.1	Secured Staging Area	Marcin Kotowski	06/28/24 13:25	Retrieve from Storage
JD91204-8.1	Marcin Kotowski	Secured Storage	06/28/24 18:13	Return to Storage
JD91204-8.1	Secured Staging Area	Ellen Dondeo	06/29/24 09:54	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD91204-8.1	Ellen Dondeo	Secured Staging Area	06/29/24 16:56	Return to Storage
JD91204-8.1	Secured Staging Area	Amin Bhavin	07/01/24 06:20	Retrieve from Storage
JD91204-8.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91204-8.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage
JD91204-8.1.1	Ellen Dondeo	Organics Prep	06/29/24 10:00	Extract from JD91204-8.1
JD91204-8.1.2	Ellen Dondeo	Organics Prep	06/29/24 10:01	Extract from JD91204-8.1
JD91204-8.1.3	Ellen Dondeo	Organics Prep	06/29/24 10:02	Extract from JD91204-8.1
JD91204-8.1.4	Ellen Dondeo	Organics Prep	06/29/24 10:21	Extract from JD91204-8.1
JD91204-8.1.4	Amin Bhavin	Extract Storage	07/01/24 11:12	Return to Storage
JD91204-8.1.4	Organics Prep	Amin Bhavin	07/01/24 11:12	Extract from JD91204-8.1
JD91204-8.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-8.2	Secured Storage	Aleandi Rodriguez	06/27/24 23:04	Retrieve from Storage
JD91204-8.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 23:04	Return to Storage
JD91204-8.2	Secured Staging Area	Brianna Perez	06/28/24 06:46	Retrieve from Storage
JD91204-8.2	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-8.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91204-8.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91204-8.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91204-8.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91204-8.2.1	Brianna Perez	Metals Digestion	06/28/24 12:55	Digestate from JD91204-8.2
JD91204-8.2.1	Metals Digestion	Brianna Perez	06/28/24 12:55	Digestate from JD91204-8.2
JD91204-8.2.1	Brianna Perez	Metals Digestate Storage	06/28/24 12:55	Return to Storage
JD91204-9.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-9.1	Secured Storage	Maged Mekhail	06/27/24 20:29	Retrieve from Storage
JD91204-9.1	Maged Mekhail	Secured Storage	06/27/24 23:12	Return to Storage
JD91204-9.1	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-9.1	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-9.1	Secured Staging Area	Marcin Kotowski	06/28/24 13:25	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/26/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91204-9.1	Marcin Kotowski	Secured Storage	06/28/24 18:13	Return to Storage
JD91204-9.1	Secured Storage	Ellen Dondeo	06/29/24 09:55	Retrieve from Storage
JD91204-9.1	Ellen Dondeo	Secured Staging Area	06/29/24 16:56	Return to Storage
JD91204-9.1	Secured Staging Area	Amin Bhavin	07/01/24 06:20	Retrieve from Storage
JD91204-9.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91204-9.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage
JD91204-9.1.1	Ellen Dondeo	Organics Prep	06/29/24 10:00	Extract from JD91204-9.1
JD91204-9.1.2	Ellen Dondeo	Organics Prep	06/29/24 10:01	Extract from JD91204-9.1
JD91204-9.1.3	Ellen Dondeo	Organics Prep	06/29/24 10:02	Extract from JD91204-9.1
JD91204-9.1.4	Ellen Dondeo	Organics Prep	06/29/24 10:21	Extract from JD91204-9.1
JD91204-9.1.4	Organics Prep	Amin Bhavin	07/01/24 11:12	Extract from JD91204-9.1
JD91204-9.1.4	Amin Bhavin	Extract Storage	07/01/24 11:12	Return to Storage
JD91204-9.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-9.2	Secured Storage	Aleandi Rodriguez	06/27/24 23:04	Retrieve from Storage
JD91204-9.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 23:04	Return to Storage
JD91204-9.2	Secured Staging Area	Brianna Perez	06/28/24 06:46	Retrieve from Storage
JD91204-9.2	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-9.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91204-9.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91204-9.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91204-9.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91204-9.2.1	Brianna Perez	Metals Digestion	06/28/24 12:55	Digestate from JD91204-9.2
JD91204-9.2.1	Metals Digestion	Brianna Perez	06/28/24 12:55	Digestate from JD91204-9.2
JD91204-9.2.1	Brianna Perez	Metals Digestate Storage	06/28/24 12:55	Return to Storage
JD91204-10.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-10.1	Secured Storage	Maged Mekhail	06/27/24 20:29	Retrieve from Storage
JD91204-10.1	Maged Mekhail	Secured Storage	06/27/24 23:12	Return to Storage
JD91204-10.1	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-10.1	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-10.1	Secured Staging Area	Marcin Kotowski	06/28/24 13:25	Retrieve from Storage
JD91204-10.1	Marcin Kotowski	Secured Storage	06/28/24 18:13	Return to Storage
JD91204-10.1	Secured Staging Area	Ellen Dondeo	06/29/24 09:54	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD91204-10.1	Ellen Dondeo	Secured Staging Area	06/29/24 16:56	Return to Storage
JD91204-10.1	Secured Staging Area	Amin Bhavin	07/01/24 06:20	Retrieve from Storage
JD91204-10.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91204-10.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage

SGS Internal Chain of Custody

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/26/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91204-10.1.1	Ellen Dondeo	Organics Prep	06/29/24 10:00	Extract from JD91204-10.1
JD91204-10.1.2	Ellen Dondeo	Organics Prep	06/29/24 10:01	Extract from JD91204-10.1
JD91204-10.1.3	Ellen Dondeo	Organics Prep	06/29/24 10:02	Extract from JD91204-10.1
JD91204-10.1.4	Ellen Dondeo	Organics Prep	06/29/24 10:21	Extract from JD91204-10.1
JD91204-10.1.4	Amin Bhavin	Extract Storage	07/01/24 11:12	Return to Storage
JD91204-10.1.4	Organics Prep	Amin Bhavin	07/01/24 11:12	Extract from JD91204-10.1
JD91204-10.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-10.2	Secured Storage	Aleandi Rodriguez	06/27/24 23:04	Retrieve from Storage
JD91204-10.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 23:04	Return to Storage
JD91204-10.2	Secured Staging Area	Brianna Perez	06/28/24 06:46	Retrieve from Storage
JD91204-10.2	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-10.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91204-10.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91204-10.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91204-10.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91204-10.2.1	Brianna Perez	Metals Digestion	06/28/24 12:55	Digestate from JD91204-10.2
JD91204-10.2.1	Metals Digestion	Brianna Perez	06/28/24 12:55	Digestate from JD91204-10.2
JD91204-10.2.1	Brianna Perez	Metals Digestate Storage	06/28/24 12:55	Return to Storage
JD91204-11.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-11.1	Secured Storage	Maged Mekhail	06/27/24 20:29	Retrieve from Storage
JD91204-11.1	Maged Mekhail	Secured Storage	06/27/24 23:12	Return to Storage
JD91204-11.1	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-11.1	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-11.1	Secured Staging Area	Marcin Kotowski	06/28/24 13:25	Retrieve from Storage
JD91204-11.1	Marcin Kotowski	Secured Storage	06/28/24 18:13	Return to Storage
JD91204-11.1	Secured Staging Area	Ellen Dondeo	06/29/24 09:54	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD91204-11.1	Ellen Dondeo	Secured Staging Area	06/29/24 16:56	Return to Storage
JD91204-11.1	Secured Staging Area	Amin Bhavin	07/01/24 06:20	Retrieve from Storage
JD91204-11.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91204-11.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage
JD91204-11.1.1	Ellen Dondeo	Organics Prep	06/29/24 10:00	Extract from JD91204-11.1
JD91204-11.1.2	Ellen Dondeo	Organics Prep	06/29/24 10:01	Extract from JD91204-11.1
JD91204-11.1.3	Ellen Dondeo	Organics Prep	06/29/24 10:02	Extract from JD91204-11.1

SGS Internal Chain of Custody

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/26/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91204-11.1.4	Ellen Dondeo	Organics Prep	06/29/24 10:21	Extract from JD91204-11.1
JD91204-11.1.4	Organics Prep	Amin Bhavin	07/01/24 11:12	Extract from JD91204-11.1
JD91204-11.1.4	Amin Bhavin	Extract Storage	07/01/24 11:12	Return to Storage
JD91204-11.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-11.2	Secured Storage	Aleandi Rodriguez	06/27/24 23:04	Retrieve from Storage
JD91204-11.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 23:04	Return to Storage
JD91204-11.2	Secured Staging Area	Brianna Perez	06/28/24 06:46	Retrieve from Storage
JD91204-11.2	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-11.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91204-11.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91204-11.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91204-11.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91204-11.2.1	Brianna Perez	Metals Digestion	06/28/24 12:55	Digestate from JD91204-11.2
JD91204-11.2.1	Metals Digestion	Brianna Perez	06/28/24 12:55	Digestate from JD91204-11.2
JD91204-11.2.1	Brianna Perez	Metals Digestate Storage	06/28/24 12:55	Return to Storage
JD91204-12.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-12.1	Secured Storage	Maged Mekhail	06/27/24 20:29	Retrieve from Storage
JD91204-12.1	Maged Mekhail	Secured Storage	06/27/24 23:12	Return to Storage
JD91204-12.1	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-12.1	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-12.1	Secured Staging Area	Marcin Kotowski	06/28/24 13:25	Retrieve from Storage
JD91204-12.1	Marcin Kotowski	Secured Storage	06/28/24 18:13	Return to Storage
JD91204-12.1	Secured Staging Area	Ellen Dondeo	06/29/24 09:54	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD91204-12.1	Ellen Dondeo	Secured Staging Area	06/29/24 16:56	Return to Storage
JD91204-12.1	Secured Staging Area	Amin Bhavin	07/01/24 06:20	Retrieve from Storage
JD91204-12.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91204-12.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage
JD91204-12.1.1	Ellen Dondeo	Organics Prep	06/29/24 10:00	Extract from JD91204-12.1
JD91204-12.1.2	Ellen Dondeo	Organics Prep	06/29/24 10:01	Extract from JD91204-12.1
JD91204-12.1.3	Ellen Dondeo	Organics Prep	06/29/24 10:02	Extract from JD91204-12.1
JD91204-12.1.4	Ellen Dondeo	Organics Prep	06/29/24 10:21	Extract from JD91204-12.1
JD91204-12.1.4	Amin Bhavin	Extract Storage	07/01/24 11:12	Return to Storage
JD91204-12.1.4	Organics Prep	Amin Bhavin	07/01/24 11:12	Extract from JD91204-12.1
JD91204-12.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage

SGS Internal Chain of Custody

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/26/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91204-12.2	Secured Storage	Aleandi Rodriguez	06/27/24 23:04	Retrieve from Storage
JD91204-12.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 23:04	Return to Storage
JD91204-12.2	Secured Staging Area	Brianna Perez	06/28/24 06:46	Retrieve from Storage
JD91204-12.2	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-12.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91204-12.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91204-12.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91204-12.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91204-12.2.1	Brianna Perez	Metals Digestion	06/28/24 12:55	Digestate from JD91204-12.2
JD91204-12.2.1	Metals Digestion	Brianna Perez	06/28/24 12:55	Digestate from JD91204-12.2
JD91204-12.2.1	Brianna Perez	Metals Digestate Storage	06/28/24 12:55	Return to Storage
JD91204-13.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-13.1	Secured Storage	Maged Mekhail	06/27/24 20:29	Retrieve from Storage
JD91204-13.1	Maged Mekhail	Secured Storage	06/27/24 23:12	Return to Storage
JD91204-13.1	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-13.1	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-13.1	Secured Staging Area	Marcin Kotowski	06/28/24 13:25	Retrieve from Storage
JD91204-13.1	Marcin Kotowski	Secured Storage	06/28/24 18:13	Return to Storage
JD91204-13.1	Secured Staging Area	Ellen Dondeo	06/29/24 09:54	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD91204-13.1	Ellen Dondeo	Secured Staging Area	06/29/24 16:56	Return to Storage
JD91204-13.1	Secured Staging Area	Amin Bhavin	07/01/24 06:20	Retrieve from Storage
JD91204-13.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91204-13.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage
JD91204-13.1.1	Ellen Dondeo	Organics Prep	06/29/24 10:00	Extract from JD91204-13.1
JD91204-13.1.2	Ellen Dondeo	Organics Prep	06/29/24 10:01	Extract from JD91204-13.1
JD91204-13.1.3	Ellen Dondeo	Organics Prep	06/29/24 10:02	Extract from JD91204-13.1
JD91204-13.1.4	Ellen Dondeo	Organics Prep	06/29/24 10:21	Extract from JD91204-13.1
JD91204-13.1.4	Amin Bhavin	Extract Storage	07/01/24 11:12	Return to Storage
JD91204-13.1.4	Organics Prep	Amin Bhavin	07/01/24 11:12	Extract from JD91204-13.1
JD91204-13.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-13.2	Secured Storage	Aleandi Rodriguez	06/27/24 23:04	Retrieve from Storage
JD91204-13.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 23:04	Return to Storage
JD91204-13.2	Secured Staging Area	Brianna Perez	06/28/24 06:46	Retrieve from Storage
JD91204-13.2	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-13.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91204-13.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage

SGS Internal Chain of Custody

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/26/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91204-13.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91204-13.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91204-13.2.1	Brianna Perez	Metals Digestion	06/28/24 12:55	Digestate from JD91204-13.2
JD91204-13.2.1	Metals Digestion	Brianna Perez	06/28/24 12:55	Digestate from JD91204-13.2
JD91204-13.2.1	Brianna Perez	Metals Digestate Storage	06/28/24 12:55	Return to Storage
JD91204-14.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-14.1	Secured Storage	Maged Mekhail	06/27/24 20:29	Retrieve from Storage
JD91204-14.1	Maged Mekhail	Secured Storage	06/27/24 23:12	Return to Storage
JD91204-14.1	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-14.1	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-14.1	Secured Staging Area	Marcin Kotowski	06/28/24 13:25	Retrieve from Storage
JD91204-14.1	Marcin Kotowski	Secured Storage	06/28/24 18:13	Return to Storage
JD91204-14.1	Secured Staging Area	Ellen Dondeo	06/29/24 09:54	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD91204-14.1	Ellen Dondeo	Secured Staging Area	06/29/24 16:56	Return to Storage
JD91204-14.1	Secured Staging Area	Amin Bhavin	07/01/24 06:20	Retrieve from Storage
JD91204-14.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91204-14.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage
JD91204-14.1.1	Ellen Dondeo	Organics Prep	06/29/24 10:00	Extract from JD91204-14.1
JD91204-14.1.2	Ellen Dondeo	Organics Prep	06/29/24 10:01	Extract from JD91204-14.1
JD91204-14.1.3	Ellen Dondeo	Organics Prep	06/29/24 10:02	Extract from JD91204-14.1
JD91204-14.1.4	Ellen Dondeo	Organics Prep	06/29/24 10:21	Extract from JD91204-14.1
JD91204-14.1.4	Amin Bhavin	Extract Storage	07/01/24 11:12	Return to Storage
JD91204-14.1.4	Organics Prep	Amin Bhavin	07/01/24 11:12	Extract from JD91204-14.1
JD91204-14.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-14.2	Secured Storage	Aleandi Rodriguez	06/27/24 23:04	Retrieve from Storage
JD91204-14.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 23:04	Return to Storage
JD91204-14.2	Secured Staging Area	Brianna Perez	06/28/24 06:46	Retrieve from Storage
JD91204-14.2	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-14.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91204-14.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91204-14.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91204-14.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91204-14.2.1	Brianna Perez	Metals Digestion	06/28/24 12:55	Digestate from JD91204-14.2
JD91204-14.2.1	Metals Digestion	Brianna Perez	06/28/24 12:55	Digestate from JD91204-14.2
JD91204-14.2.1	Brianna Perez	Metals Digestate Storage	06/28/24 12:55	Return to Storage

SGS Internal Chain of Custody

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/26/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91204-15.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-15.1	Secured Storage	Maged Mekhail	06/27/24 20:29	Retrieve from Storage
JD91204-15.1	Maged Mekhail	Secured Storage	06/27/24 23:12	Return to Storage
JD91204-15.1	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-15.1	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-15.1	Secured Staging Area	Marcin Kotowski	06/28/24 13:25	Retrieve from Storage
JD91204-15.1	Marcin Kotowski	Secured Storage	06/28/24 18:13	Return to Storage
JD91204-15.1	Secured Storage	Ellen Dondeo	06/29/24 09:55	Retrieve from Storage
JD91204-15.1	Ellen Dondeo	Secured Staging Area	06/29/24 16:56	Return to Storage
JD91204-15.1	Secured Staging Area	Amin Bhavin	07/01/24 06:20	Retrieve from Storage
JD91204-15.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91204-15.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage
JD91204-15.1.1	Ellen Dondeo	Organics Prep	06/29/24 10:00	Extract from JD91204-15.1
JD91204-15.1.2	Ellen Dondeo	Organics Prep	06/29/24 10:01	Extract from JD91204-15.1
JD91204-15.1.3	Ellen Dondeo	Organics Prep	06/29/24 10:02	Extract from JD91204-15.1
JD91204-15.1.4	Ellen Dondeo	Organics Prep	06/29/24 10:21	Extract from JD91204-15.1
JD91204-15.1.4	Amin Bhavin	Extract Storage	07/01/24 11:12	Return to Storage
JD91204-15.1.4	Organics Prep	Amin Bhavin	07/01/24 11:12	Extract from JD91204-15.1
JD91204-15.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-15.2	Secured Storage	Aleandi Rodriguez	06/27/24 23:04	Retrieve from Storage
JD91204-15.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 23:04	Return to Storage
JD91204-15.2	Secured Staging Area	Brianna Perez	06/28/24 06:46	Retrieve from Storage
JD91204-15.2	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-15.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91204-15.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91204-15.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91204-15.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91204-15.2.1	Brianna Perez	Metals Digestion	06/28/24 12:55	Digestate from JD91204-15.2
JD91204-15.2.1	Metals Digestion	Brianna Perez	06/28/24 12:55	Digestate from JD91204-15.2
JD91204-15.2.1	Brianna Perez	Metals Digestate Storage	06/28/24 12:55	Return to Storage
JD91204-16.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-16.1	Secured Storage	Maged Mekhail	06/27/24 20:29	Retrieve from Storage
JD91204-16.1	Maged Mekhail	Secured Storage	06/27/24 23:12	Return to Storage
JD91204-16.1	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-16.1	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-16.1	Secured Staging Area	Marcin Kotowski	06/28/24 13:25	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/26/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91204-16.1	Marcin Kotowski	Secured Storage	06/28/24 18:13	Return to Storage
JD91204-16.1	Secured Staging Area	Ellen Dondeo	06/29/24 09:54	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD91204-16.1	Ellen Dondeo	Secured Staging Area	06/29/24 16:56	Return to Storage
JD91204-16.1	Secured Staging Area	Amin Bhavin	07/01/24 06:20	Retrieve from Storage
JD91204-16.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91204-16.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage
JD91204-16.1.1	Ellen Dondeo	Organics Prep	06/29/24 10:00	Extract from JD91204-16.1
JD91204-16.1.2	Ellen Dondeo	Organics Prep	06/29/24 10:01	Extract from JD91204-16.1
JD91204-16.1.3	Ellen Dondeo	Organics Prep	06/29/24 10:02	Extract from JD91204-16.1
JD91204-16.1.4	Ellen Dondeo	Organics Prep	06/29/24 10:21	Extract from JD91204-16.1
JD91204-16.1.4	Amin Bhavin	Extract Storage	07/01/24 11:12	Return to Storage
JD91204-16.1.4	Organics Prep	Amin Bhavin	07/01/24 11:12	Extract from JD91204-16.1
JD91204-16.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-16.2	Secured Storage	Aleandi Rodriguez	06/27/24 23:04	Retrieve from Storage
JD91204-16.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 23:04	Return to Storage
JD91204-16.2	Secured Staging Area	Brianna Perez	06/28/24 06:46	Retrieve from Storage
JD91204-16.2	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-16.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91204-16.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91204-16.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91204-16.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91204-16.2.1	Brianna Perez	Metals Digestion	06/28/24 12:55	Digestate from JD91204-16.2
JD91204-16.2.1	Metals Digestion	Brianna Perez	06/28/24 12:55	Digestate from JD91204-16.2
JD91204-16.2.1	Brianna Perez	Metals Digestate Storage	06/28/24 12:55	Return to Storage
JD91204-17.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-17.1	Secured Storage	Maged Mekhail	06/27/24 20:29	Retrieve from Storage
JD91204-17.1	Maged Mekhail	Secured Storage	06/27/24 23:12	Return to Storage
JD91204-17.1	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-17.1	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-17.1	Secured Staging Area	Marcin Kotowski	06/28/24 13:25	Retrieve from Storage
JD91204-17.1	Marcin Kotowski	Secured Storage	06/28/24 18:13	Return to Storage
JD91204-17.1	Secured Staging Area	Ellen Dondeo	06/29/24 09:54	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD91204-17.1	Ellen Dondeo	Secured Staging Area	06/29/24 16:56	Return to Storage
JD91204-17.1	Secured Staging Area	Amin Bhavin	07/01/24 06:20	Retrieve from Storage
JD91204-17.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer

SGS Internal Chain of Custody

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/26/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91204-17.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage
JD91204-17.1.1	Ellen Dondeo	Organics Prep	06/29/24 10:00	Extract from JD91204-17.1
JD91204-17.1.2	Ellen Dondeo	Organics Prep	06/29/24 10:01	Extract from JD91204-17.1
JD91204-17.1.3	Ellen Dondeo	Organics Prep	06/29/24 10:02	Extract from JD91204-17.1
JD91204-17.1.4	Ellen Dondeo	Organics Prep	06/29/24 10:21	Extract from JD91204-17.1
JD91204-17.1.4	Amin Bhavin	Extract Storage	07/01/24 11:12	Return to Storage
JD91204-17.1.4	Organics Prep	Amin Bhavin	07/01/24 11:12	Extract from JD91204-17.1
JD91204-17.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:41	Return to Storage
JD91204-17.2	Secured Storage	Aleandi Rodriguez	06/27/24 23:04	Retrieve from Storage
JD91204-17.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 23:04	Return to Storage
JD91204-17.2	Secured Staging Area	Brianna Perez	06/28/24 06:46	Retrieve from Storage
JD91204-17.2	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-17.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91204-17.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91204-17.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91204-17.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91204-17.2.1	Brianna Perez	Metals Digestion	06/28/24 12:55	Digestate from JD91204-17.2
JD91204-17.2.1	Metals Digestion	Brianna Perez	06/28/24 12:55	Digestate from JD91204-17.2
JD91204-17.2.1	Brianna Perez	Metals Digestate Storage	06/28/24 12:55	Return to Storage
JD91204-18.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:37	Return to Storage
JD91204-18.1	Secured Storage	Dave Hunkele	07/02/24 08:01	Retrieve from Storage
JD91204-18.1	Dave Hunkele	Secured Staging Area	07/02/24 08:02	Return to Storage
JD91204-18.1	Secured Staging Area	Jared O. Onindo	07/02/24 15:31	Retrieve from Storage
JD91204-18.1	Secured Storage	Dave Hunkele	07/03/24 07:03	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD91204-18.1	Dave Hunkele	Secured Staging Area	07/03/24 07:03	Return to Storage
JD91204-18.1	Secured Staging Area	Rie Iwasaki	07/03/24 08:12	Retrieve from Storage
JD91204-18.1	Rie Iwasaki	Secured Storage	07/03/24 15:26	Return to Storage
JD91204-18.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:37	Return to Storage
JD91204-18.2	Secured Storage	Aleandi Rodriguez	06/27/24 22:54	Retrieve from Storage
JD91204-18.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 22:54	Return to Storage
JD91204-18.2	Secured Staging Area	Ellen Dondeo	06/27/24 23:56	Retrieve from Storage
JD91204-18.2	Secured Storage	Ellen Dondeo	06/28/24 00:06	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD91204-18.2	Ellen Dondeo	Secured Storage	06/29/24 08:41	Return to Storage

SGS Internal Chain of Custody

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/26/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91204-18.2.1	Ellen Dondeo	Organics Prep	06/28/24 00:14	Extract from JD91204-18.2
JD91204-18.2.1	Organics Prep	Ellen Dondeo	06/28/24 23:24	Extract from JD91204-18.2
JD91204-18.2.1	Ellen Dondeo	Extract Storage	06/28/24 23:24	Return to Storage
JD91204-18.2.2	Ellen Dondeo	Organics Prep	06/28/24 00:15	Extract from JD91204-18.2
JD91204-18.2.2	Ellen Dondeo	Extract Storage	06/28/24 23:25	Return to Storage
JD91204-18.2.2	Organics Prep	Ellen Dondeo	06/28/24 23:25	Extract from JD91204-18.2
JD91204-18.2.3	Ellen Dondeo	Organics Prep	06/28/24 00:20	Extract from JD91204-18.2
JD91204-18.2.3	Organics Prep	Vraj Patel	06/29/24 11:54	Extract from JD91204-18.2
JD91204-18.2.3	Vraj Patel	Extract Storage	06/29/24 11:54	Return to Storage
JD91204-18.3	Aleandi Rodriguez	Secured Storage	06/27/24 16:37	Return to Storage
JD91204-18.3	Secured Storage	Angel Guzman	06/28/24 20:27	Retrieve from Storage
JD91204-18.3	Angel Guzman	Secured Storage	07/11/24 00:31	Return to Storage
JD91204-18.4	Aleandi Rodriguez	Secured Storage	06/27/24 16:37	Return to Storage
JD91204-18.4	Secured Storage	Aleandi Rodriguez	06/27/24 22:54	Retrieve from Storage
JD91204-18.4	Aleandi Rodriguez	Secured Staging Area	06/27/24 22:54	Return to Storage
JD91204-18.4	Secured Staging Area	Ellen Dondeo	06/27/24 23:56	Retrieve from Storage
JD91204-18.4	Secured Storage	Ellen Dondeo	06/28/24 00:06	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD91204-18.4	Ellen Dondeo	Secured Storage	06/29/24 08:41	Return to Storage
JD91204-18.5	Aleandi Rodriguez	Secured Storage	06/27/24 16:37	Return to Storage
JD91204-18.5	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-18.5	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-18.5	Secured Storage	Brianna Perez	06/28/24 13:04	Retrieve from Storage
Analyst chain of custody update error.				
JD91204-18.5	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-18.5.1	Brianna Perez	Metals Digestion	06/28/24 13:05	Digestate from JD91204-18.5
JD91204-18.5.1	Metals Digestion	Brianna Perez	06/28/24 13:06	Digestate from JD91204-18.5
JD91204-18.5.1	Brianna Perez	Metals Digestate Storage	06/28/24 13:07	Return to Storage
JD91204-18.6	Joe Waddington	Secured Storage	06/27/24 17:31	Return to Storage
JD91204-18.6	Secured Storage	Dave Hunkele	06/28/24 08:42	Retrieve from Storage
JD91204-18.6	Dave Hunkele	Secured Staging Area	06/28/24 08:42	Return to Storage
JD91204-18.6	Secured Staging Area	Melissa Saenz	06/28/24 09:48	Retrieve from Storage
JD91204-18.6	Melissa Saenz	Secured Storage	06/28/24 15:59	Return to Storage
JD91204-18.7	Secured Storage	Edward Durner	06/28/24 14:35	Retrieve from Storage
JD91204-18.7	Edward Durner	GCMS1U	06/28/24 14:35	Load on Instrument
JD91204-18.7	GCMS1U	Camille Fiumara	07/01/24 15:20	Unload from Instrument

SGS Internal Chain of Custody

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Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91204-18.7	Camille Fiumara	Secured Storage	07/01/24 15:20	Return to Storage
JD91204-19.1	Aleandi Rodriguez	Secured Storage	06/27/24 16:37	Return to Storage
JD91204-19.1	Secured Storage	Angel Guzman	06/28/24 20:27	Retrieve from Storage
JD91204-19.1	Angel Guzman		07/11/24 00:32	Depleted
JD91204-19.2	Aleandi Rodriguez	Secured Storage	06/27/24 16:37	Return to Storage
JD91204-19.2	Secured Storage	Aleandi Rodriguez	06/27/24 22:54	Retrieve from Storage
JD91204-19.2	Aleandi Rodriguez	Secured Staging Area	06/27/24 22:54	Return to Storage
JD91204-19.2	Secured Staging Area	Ellen Dondeo	06/27/24 23:56	Retrieve from Storage
JD91204-19.2	Secured Storage	Ellen Dondeo	06/28/24 00:06	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD91204-19.2	Ellen Dondeo	Secured Storage	06/29/24 08:41	Return to Storage
JD91204-19.2.1	Ellen Dondeo	Organics Prep	06/28/24 00:14	Extract from JD91204-19.2
JD91204-19.2.1	Organics Prep	Ellen Dondeo	06/28/24 23:24	Extract from JD91204-19.2
JD91204-19.2.1	Ellen Dondeo	Extract Storage	06/28/24 23:24	Return to Storage
JD91204-19.2.2	Ellen Dondeo	Organics Prep	06/28/24 00:15	Extract from JD91204-19.2
JD91204-19.2.2	Ellen Dondeo	Extract Storage	06/28/24 23:25	Return to Storage
JD91204-19.2.2	Organics Prep	Ellen Dondeo	06/28/24 23:25	Extract from JD91204-19.2
JD91204-19.2.3	Ellen Dondeo	Organics Prep	06/28/24 00:20	Extract from JD91204-19.2
JD91204-19.2.3	Organics Prep	Vraj Patel	06/29/24 11:54	Extract from JD91204-19.2
JD91204-19.2.3	Vraj Patel	Extract Storage	06/29/24 11:54	Return to Storage
JD91204-19.3	Aleandi Rodriguez	Secured Storage	06/27/24 16:37	Return to Storage
JD91204-19.3	Secured Storage	Dave Hunkele	07/02/24 08:01	Retrieve from Storage
JD91204-19.3	Dave Hunkele	Secured Staging Area	07/02/24 08:02	Return to Storage
JD91204-19.3	Secured Staging Area	Jared O. Onindo	07/02/24 15:31	Retrieve from Storage
JD91204-19.3	Secured Storage	Dave Hunkele	07/03/24 07:03	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD91204-19.3	Dave Hunkele	Secured Staging Area	07/03/24 07:03	Return to Storage
JD91204-19.3	Secured Staging Area	Rie Iwasaki	07/03/24 08:12	Retrieve from Storage
JD91204-19.3	Rie Iwasaki	Secured Storage	07/03/24 15:26	Return to Storage
JD91204-19.4	Aleandi Rodriguez	Secured Storage	06/27/24 16:37	Return to Storage
JD91204-19.4	Secured Storage	Aleandi Rodriguez	06/27/24 22:54	Retrieve from Storage
JD91204-19.4	Aleandi Rodriguez	Secured Staging Area	06/27/24 22:54	Return to Storage
JD91204-19.4	Secured Staging Area	Ellen Dondeo	06/27/24 23:56	Retrieve from Storage
JD91204-19.4	Secured Storage	Ellen Dondeo	06/28/24 00:06	Retrieve from Storage
Analyst unavailable for custody transfer.				
JD91204-19.4	Ellen Dondeo	Secured Storage	06/29/24 08:41	Return to Storage

SGS Internal Chain of Custody

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/26/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91204-19.5	Aleandi Rodriguez	Secured Storage	06/27/24 16:37	Return to Storage
JD91204-19.5	Secured Storage	Dave Hunkele	06/28/24 05:02	Retrieve from Storage
JD91204-19.5	Dave Hunkele	Secured Staging Area	06/28/24 05:02	Return to Storage
JD91204-19.5	Secured Storage	Brianna Perez	06/28/24 13:04	Retrieve from Storage
Analyst chain of custody update error.				
JD91204-19.5	Brianna Perez	Secured Storage	06/28/24 14:28	Return to Storage
JD91204-19.5.1	Brianna Perez	Metals Digestion	06/28/24 13:05	Digestate from JD91204-19.5
JD91204-19.5.1	Metals Digestion	Brianna Perez	06/28/24 13:06	Digestate from JD91204-19.5
JD91204-19.5.1	Brianna Perez	Metals Digestate Storage	06/28/24 13:07	Return to Storage
JD91204-19.6	Joe Waddington	Secured Storage	06/27/24 17:31	Return to Storage
JD91204-19.6	Secured Storage	Dave Hunkele	06/28/24 08:42	Retrieve from Storage
JD91204-19.6	Dave Hunkele	Secured Staging Area	06/28/24 08:42	Return to Storage
JD91204-19.6	Secured Staging Area	Melissa Saenz	06/28/24 09:48	Retrieve from Storage
JD91204-19.6	Melissa Saenz	Secured Storage	06/28/24 15:59	Return to Storage
JD91204-19.7	Secured Storage	Edward Durner	06/28/24 14:35	Retrieve from Storage
JD91204-19.7	Edward Durner	GCMS1U	06/28/24 14:35	Load on Instrument
JD91204-19.7	GCMS1U	Camille Fiumara	07/01/24 15:20	Unload from Instrument
JD91204-19.7	Camille Fiumara	Secured Storage	07/01/24 15:20	Return to Storage

MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55747-MB1	F220735.D	1	06/29/24	KLS	06/28/24	OP55747	EF9807

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91204-18, JD91204-19

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	5.0	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	4.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	
105-60-2	Caprolactam	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	

Method Blank Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55747-MB1	F220735.D	1	06/29/24	KLS	06/28/24	OP55747	EF9807

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91204-18, JD91204-19

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

Method Blank Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55747-MB1	F220735.D	1	06/29/24	KLS	06/28/24	OP55747	EF9807

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91204-18, JD91204-19

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	36%	10-71%
4165-62-2	Phenol-d5	24%	10-58%
118-79-6	2,4,6-Tribromophenol	67%	22-144%
4165-60-0	Nitrobenzene-d5	64%	28-118%
321-60-8	2-Fluorobiphenyl	66%	34-116%
1718-51-0	Terphenyl-d14	67%	10-127%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55759-MB1	CJ7989.D	1	07/01/24	KM	06/30/24	OP55759	ECJ348

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	28	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	36	ug/kg	
95-48-7	2-Methylphenol	ND	67	21	ug/kg	
	3&4-Methylphenol	ND	67	27	ug/kg	
88-75-5	2-Nitrophenol	ND	170	22	ug/kg	
100-02-7	4-Nitrophenol	ND	330	89	ug/kg	
87-86-5	Pentachlorophenol	ND	130	31	ug/kg	
108-95-2	Phenol	ND	67	17	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	25	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
98-86-2	Acetophenone	ND	170	7.2	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
1912-24-9	Atrazine	ND	67	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	8.1	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	7.9	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	67	4.8	ug/kg	
105-60-2	Caprolactam	ND	67	13	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	14	ug/kg	

Method Blank Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55759-MB1	CJ7989.D	1	07/01/24	KM	06/30/24	OP55759	ECJ348

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	67	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	10	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	28	ug/kg	
123-91-1	1,4-Dioxane	ND	33	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
132-64-9	Dibenzofuran	ND	67	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	5.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	8.3	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	5.9	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.8	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	13	ug/kg	
67-72-1	Hexachloroethane	ND	170	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
78-59-1	Isophorone	ND	67	7.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	33	7.5	ug/kg	
88-74-4	2-Nitroaniline	ND	170	7.9	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.3	ug/kg	
100-01-6	4-Nitroaniline	ND	170	8.6	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
98-95-3	Nitrobenzene	ND	67	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	9.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	12	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.5	ug/kg	

Method Blank Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55759-MB1	CJ7989.D	1	07/01/24	KM	06/30/24	OP55759	ECJ348

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	69%	10-99%
4165-62-2	Phenol-d5	72%	10-96%
118-79-6	2,4,6-Tribromophenol	77%	10-123%
4165-60-0	Nitrobenzene-d5	69%	10-109%
321-60-8	2-Fluorobiphenyl	75%	11-109%
1718-51-0	Terphenyl-d14	83%	10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55759-BS1	CJ7990.D	1	07/01/24	KM	06/30/24	OP55759	ECJ348

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1120	67	10-135
59-50-7	4-Chloro-3-methyl phenol	1670	1220	73	10-141
120-83-2	2,4-Dichlorophenol	1670	1220	73	10-139
105-67-9	2,4-Dimethylphenol	1670	1140	68	10-141
51-28-5	2,4-Dinitrophenol	3330	1660	50	10-138
534-52-1	4,6-Dinitro-o-cresol	1670	1350	81	10-156
95-48-7	2-Methylphenol	1670	1240	74	10-139
	3&4-Methylphenol	3330	2430	73	10-174
88-75-5	2-Nitrophenol	1670	1230	74	10-142
100-02-7	4-Nitrophenol	1670	669	40	10-144
87-86-5	Pentachlorophenol	3330	1430	43	10-165
108-95-2	Phenol	1670	1230	74	23-115
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1020	61	10-146
95-95-4	2,4,5-Trichlorophenol	1670	1160	70	13-136
88-06-2	2,4,6-Trichlorophenol	1670	1210	73	10-142
83-32-9	Acenaphthene	1670	1270	76	10-141
208-96-8	Acenaphthylene	1670	1260	76	10-133
98-86-2	Acetophenone	1670	1040	62	23-115
120-12-7	Anthracene	1670	1350	81	10-144
1912-24-9	Atrazine	1670	1390	83	17-149
56-55-3	Benzo(a)anthracene	1670	1310	79	11-139
50-32-8	Benzo(a)pyrene	1670	1390	83	13-141
205-99-2	Benzo(b)fluoranthene	1670	1420	85	14-140
191-24-2	Benzo(g,h,i)perylene	1670	1410	85	13-138
207-08-9	Benzo(k)fluoranthene	1670	1300	78	12-140
101-55-3	4-Bromophenyl phenyl ether	1670	1360	82	10-146
85-68-7	Butyl benzyl phthalate	1670	1420	85	10-150
92-52-4	1,1'-Biphenyl	1670	1220	73	10-141
100-52-7	Benzaldehyde	1670	925	56	10-146
91-58-7	2-Chloronaphthalene	1670	1190	71	10-142
106-47-8	4-Chloroaniline	1670	874	52	10-108
86-74-8	Carbazole	1670	1360	82	10-145
105-60-2	Caprolactam	1670	1690	101	10-187
218-01-9	Chrysene	1670	1350	81	11-139
111-91-1	bis(2-Chloroethoxy)methane	1670	1100	66	10-144
111-44-4	bis(2-Chloroethyl)ether	1670	1000	60	10-145

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55759-BS1	CJ7990.D	1	07/01/24	KM	06/30/24	OP55759	ECJ348

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	2,2'-Oxybis(1-chloropropane)	1670	1080	65	10-145
7005-72-3	4-Chlorophenyl phenyl ether	1670	1290	77	10-145
121-14-2	2,4-Dinitrotoluene	1670	1380	83	10-148
606-20-2	2,6-Dinitrotoluene	1670	1380	83	12-145
91-94-1	3,3'-Dichlorobenzidine	1670	1010	61	10-100
123-91-1	1,4-Dioxane	1670	559	34	10-97
53-70-3	Dibenzo(a,h)anthracene	1670	1460	88	14-142
132-64-9	Dibenzofuran	1670	1240	74	10-140
84-74-2	Di-n-butyl phthalate	1670	1390	83	11-147
117-84-0	Di-n-octyl phthalate	1670	1400	84	15-145
84-66-2	Diethyl phthalate	1670	1270	76	10-145
131-11-3	Dimethyl phthalate	1670	1280	77	10-144
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1390	83	26-132
206-44-0	Fluoranthene	1670	1390	83	10-147
86-73-7	Fluorene	1670	1290	77	12-139
118-74-1	Hexachlorobenzene	1670	1320	79	10-144
87-68-3	Hexachlorobutadiene	1670	950	57	10-142
77-47-4	Hexachlorocyclopentadiene	3330	800	24	10-120
67-72-1	Hexachloroethane	1670	945	57	10-141
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1440	86	13-144
78-59-1	Isophorone	1670	1100	66	10-139
91-57-6	2-Methylnaphthalene	1670	1160	70	10-140
88-74-4	2-Nitroaniline	1670	1280	77	10-148
99-09-2	3-Nitroaniline	1670	1060	64	10-127
100-01-6	4-Nitroaniline	1670	1300	78	10-143
91-20-3	Naphthalene	1670	1100	66	10-141
98-95-3	Nitrobenzene	1670	1020	61	10-139
621-64-7	N-Nitroso-di-n-propylamine	1670	1060	64	10-143
86-30-6	N-Nitrosodiphenylamine	1670	1370	82	10-145
85-01-8	Phenanthrene	1670	1320	79	10-142
129-00-0	Pyrene	1670	1340	80	13-141
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1120	67	10-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55759-BS1	CJ7990.D	1	07/01/24	KM	06/30/24	OP55759	ECJ348

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	61%	10-99%
4165-62-2	Phenol-d5	64%	10-96%
118-79-6	2,4,6-Tribromophenol	74%	10-123%
4165-60-0	Nitrobenzene-d5	62%	10-109%
321-60-8	2-Fluorobiphenyl	72%	11-109%
1718-51-0	Terphenyl-d14	79%	10-120%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55747-BS1	F220739.D	1	06/29/24	KLS	06/28/24	OP55747	EF9807
OP55747-BSD	F220740.D	1	06/29/24	KLS	06/28/24	OP55747	EF9807

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91204-18, JD91204-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	50	31.2	62	33.4	67	7	17-111/59
59-50-7	4-Chloro-3-methyl phenol	50	34.1	68	37.1	74	8	30-118/47
120-83-2	2,4-Dichlorophenol	50	33.9	68	36.3	73	7	30-119/50
105-67-9	2,4-Dimethylphenol	50	30.8	62	34.6	69	12	20-114/49
51-28-5	2,4-Dinitrophenol	100	67.5	68	74.2	74	9	11-141/72
534-52-1	4,6-Dinitro-o-cresol	50	35.1	70	37.1	74	6	30-142/51
95-48-7	2-Methylphenol	50	30.2	60	31.9	64	5	10-110/56
	3&4-Methylphenol	100	54.8	55	57.9	58	6	10-164/59
88-75-5	2-Nitrophenol	50	33.7	67	35.7	71	6	33-123/49
100-02-7	4-Nitrophenol	50	18.4	37	20.9	42	13	10-84/61
87-86-5	Pentachlorophenol	100	80.6	81	82.5	83	2	10-171/41
108-95-2	Phenol	50	14.6	29	16.4	33	12	10-85/57
58-90-2	2,3,4,6-Tetrachlorophenol	50	36.6	73	40.8	82	11	36-130/44
95-95-4	2,4,5-Trichlorophenol	50	40.4	81	42.1	84	4	38-124/44
88-06-2	2,4,6-Trichlorophenol	50	37.6	75	40.5	81	7	37-122/46
83-32-9	Acenaphthene	50	38.9	78	40.7	81	5	52-115/30
208-96-8	Acenaphthylene	50	38.2	76	40.6	81	6	30-114/31
98-86-2	Acetophenone	50	34.2	68	35.8	72	5	40-115/39
120-12-7	Anthracene	50	40.9	82	43.4	87	6	55-122/29
1912-24-9	Atrazine	50	38.7	77	40.7	81	5	54-140/33
100-52-7	Benzaldehyde	50	32.8	66	33.0	66	1	35-121/35
56-55-3	Benzo(a)anthracene	50	39.0	78	40.9	82	5	55-122/29
50-32-8	Benzo(a)pyrene	50	40.3	81	42.4	85	5	50-123/30
205-99-2	Benzo(b)fluoranthene	50	40.2	80	41.8	84	4	57-124/28
191-24-2	Benzo(g,h,i)perylene	50	42.6	85	43.2	86	1	55-125/30
207-08-9	Benzo(k)fluoranthene	50	40.7	81	42.5	85	4	53-124/28
101-55-3	4-Bromophenyl phenyl ether	50	41.5	83	43.9	88	6	55-124/29
85-68-7	Butyl benzyl phthalate	50	39.9	80	41.7	83	4	54-134/29
92-52-4	1,1'-Biphenyl	50	38.3	77	41.1	82	7	46-115/32
91-58-7	2-Chloronaphthalene	50	38.3	77	40.1	80	5	44-113/32
106-47-8	4-Chloroaniline	50	16.2	32	18.4	37	13	10-100/92
86-74-8	Carbazole	50	41.0	82	43.2	86	5	56-123/29
105-60-2	Caprolactam	50	12.1	24	12.3	25	2	10-85/35
218-01-9	Chrysene	50	40.9	82	43.2	86	5	54-122/29
111-91-1	bis(2-Chloroethoxy)methane	50	35.7	71	36.9	74	3	39-116/36
111-44-4	bis(2-Chloroethyl)ether	50	33.2	66	34.3	69	3	31-118/45

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55747-BS1	F220739.D	1	06/29/24	KLS	06/28/24	OP55747	EF9807
OP55747-BSD	F220740.D	1	06/29/24	KLS	06/28/24	OP55747	EF9807

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91204-18, JD91204-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
108-60-1	2,2'-Oxybis(1-chloropropane)	50	31.9	64	34.0	68	6	34-117/43
7005-72-3	4-Chlorophenyl phenyl ether	50	38.8	78	41.3	83	6	53-119/28
121-14-2	2,4-Dinitrotoluene	50	40.6	81	43.7	87	7	58-129/29
606-20-2	2,6-Dinitrotoluene	50	40.3	81	43.5	87	8	56-128/30
91-94-1	3,3'-Dichlorobenzidine	50	24.5	49	26.1	52	6	23-122/44
123-91-1	1,4-Dioxane	50	19.1	38	18.1	36	5	10-88/49
53-70-3	Dibenzo(a,h)anthracene	50	41.1	82	42.9	86	4	55-127/29
132-64-9	Dibenzofuran	50	39.0	78	40.8	82	5	53-116/29
84-74-2	Di-n-butyl phthalate	50	39.8	80	41.4	83	4	57-129/30
117-84-0	Di-n-octyl phthalate	50	40.1	80	42.3	85	5	45-139/28
84-66-2	Diethyl phthalate	50	39.4	79	41.3	83	5	53-123/30
131-11-3	Dimethyl phthalate	50	39.8	80	42.3	85	6	50-122/35
117-81-7	bis(2-Ethylhexyl)phthalate	50	41.3	83	42.3	85	2	49-137/30
206-44-0	Fluoranthene	50	40.7	81	42.8	86	5	58-125/30
86-73-7	Fluorene	50	39.6	79	41.5	83	5	56-119/28
118-74-1	Hexachlorobenzene	50	39.8	80	41.7	83	5	53-125/29
87-68-3	Hexachlorobutadiene	50	30.9	62	32.1	64	4	21-109/47
77-47-4	Hexachlorocyclopentadiene	100	68.0	68	72.7	73	7	10-96/52
67-72-1	Hexachloroethane	50	30.5	61	31.5	63	3	19-105/40
193-39-5	Indeno(1,2,3-cd)pyrene	50	41.6	83	41.9	84	1	50-132/30
78-59-1	Isophorone	50	35.2	70	36.4	73	3	41-117/33
91-57-6	2-Methylnaphthalene	50	34.2	68	36.1	72	5	41-112/35
88-74-4	2-Nitroaniline	50	40.4	81	40.0	80	1	48-128/31
99-09-2	3-Nitroaniline	50	28.3	57	30.3	61	7	30-115/51
100-01-6	4-Nitroaniline	50	37.6	75	40.3	81	7	43-121/34
91-20-3	Naphthalene	50	33.5	67	35.2	70	5	37-112/39
98-95-3	Nitrobenzene	50	32.4	65	33.7	67	4	35-119/39
621-64-7	N-Nitroso-di-n-propylamine	50	34.6	69	35.0	70	1	34-121/36
86-30-6	N-Nitrosodiphenylamine	50	42.1	84	42.8	86	2	52-121/29
85-01-8	Phenanthrene	50	41.3	83	42.7	85	3	56-121/28
129-00-0	Pyrene	50	40.6	81	42.2	84	4	55-125/29
95-94-3	1,2,4,5-Tetrachlorobenzene	50	36.5	73	38.4	77	5	40-110/35

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55747-BS1	F220739.D	1	06/29/24	KLS	06/28/24	OP55747	EF9807
OP55747-BSD	F220740.D	1	06/29/24	KLS	06/28/24	OP55747	EF9807

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91204-18, JD91204-19

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	42%	44%	10-71%
4165-62-2	Phenol-d5	30%	31%	10-58%
118-79-6	2,4,6-Tribromophenol	79%	85%	22-144%
4165-60-0	Nitrobenzene-d5	70%	71%	28-118%
321-60-8	2-Fluorobiphenyl	79%	81%	34-116%
1718-51-0	Terphenyl-d14	64%	69%	10-127%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55759-MS	CJ8018.D	1	07/01/24	KM	06/30/24	OP55759	ECJ348
OP55759-MSD	CJ8019.D	1	07/01/24	KM	06/30/24	OP55759	ECJ348
JD91204-1	CJ8012.D	1	07/01/24	KM	06/30/24	OP55759	ECJ348

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

CAS No.	Compound	JD91204-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		1710	1000	59	1710	958	56	4	10-137/86
59-50-7	4-Chloro-3-methyl phenol	ND		1710	1000	59	1710	987	58	1	10-146/84
120-83-2	2,4-Dichlorophenol	ND		1710	1050	61	1710	1010	59	4	10-145/86
105-67-9	2,4-Dimethylphenol	ND		1710	602	35	1710	569	33	6	10-148/87
51-28-5	2,4-Dinitrophenol	ND		3420	ND	0* [a]	3430	ND	0* [a]	nc	10-118/90
534-52-1	4,6-Dinitro-o-cresol	ND		1710	87.5	5* [a]	1710	93.1	5* [a]	6	10-131/97
95-48-7	2-Methylphenol	ND		1710	950	56	1710	900	53	5	10-143/86
	3&4-Methylphenol	ND		3420	2000	59	3430	1920	56	4	10-162/87
88-75-5	2-Nitrophenol	ND		1710	1080	63	1710	1040	61	4	10-147/93
100-02-7	4-Nitrophenol	ND		1710	690	40	1710	636	37	8	10-152/85
87-86-5	Pentachlorophenol	ND		3420	756	22	3430	745	22	1	10-146/89
108-95-2	Phenol	ND		1710	1060	62	1710	1020	60	4	10-118/84
58-90-2	2,3,4,6-Tetrachlorophenol	ND		1710	869	51	1710	835	49	4	10-139/87
95-95-4	2,4,5-Trichlorophenol	ND		1710	1030	60	1710	976	57	5	10-140/86
88-06-2	2,4,6-Trichlorophenol	ND		1710	1070	63	1710	1010	59	6	10-141/86
83-32-9	Acenaphthene	45.1		1710	1150	65	1710	1150	64	0	10-156/87
208-96-8	Acenaphthylene	143		1710	1320	69	1710	1310	68	1	10-143/84
98-86-2	Acetophenone	ND		1710	983	58	1710	935	55	5	10-130/90
120-12-7	Anthracene	221		1710	1400	69	1710	1470	73	5	10-166/88
1912-24-9	Atrazine	ND		1710	1100	64	1710	1040	61	6	10-148/86
56-55-3	Benzo(a)anthracene	746		1710	1920	69	1710	2520	103	27	10-163/88
50-32-8	Benzo(a)pyrene	799		1710	2020	71	1710	2570	103	24	10-163/89
205-99-2	Benzo(b)fluoranthene	951		1710	2230	75	1710	2760	106	21	10-156/91
191-24-2	Benzo(g,h,i)perylene	554		1710	1710	68	1710	2000	84	16	10-158/89
207-08-9	Benzo(k)fluoranthene	323		1710	1260	55	1710	1630	76	26	10-157/86
101-55-3	4-Bromophenyl phenyl ether	ND		1710	1150	67	1710	1090	64	5	10-143/87
85-68-7	Butyl benzyl phthalate	ND		1710	1200	70	1710	1170	68	3	10-161/89
92-52-4	1,1'-Biphenyl	9.5	J	1710	1120	65	1710	1060	61	6	10-143/86
100-52-7	Benzaldehyde	ND		1710	885	52	1710	827	48	7	10-148/88
91-58-7	2-Chloronaphthalene	ND		1710	1090	64	1710	1040	61	5	10-145/86
106-47-8	4-Chloroaniline	ND		1710	383	22	1710	403	24	5	10-109/87
86-74-8	Carbazole	41.2	J	1710	1160	65	1710	1130	64	3	10-158/87
105-60-2	Caprolactam	ND		1710	682	40	1710	651	38	5	10-150/82
218-01-9	Chrysene	704		1710	1800	64	1710	2330	95	26	10-164/87
111-91-1	bis(2-Chloroethoxy)methane	ND		1710	1030	60	1710	984	57	5	10-152/86
111-44-4	bis(2-Chloroethyl)ether	ND		1710	1070	63	1710	1020	60	5	10-147/86

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55759-MS	CJ8018.D	1	07/01/24	KM	06/30/24	OP55759	ECJ348
OP55759-MSD	CJ8019.D	1	07/01/24	KM	06/30/24	OP55759	ECJ348
JD91204-1	CJ8012.D	1	07/01/24	KM	06/30/24	OP55759	ECJ348

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

CAS No.	Compound	JD91204-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	2,2'-Oxybis(1-chloropropane)	ND		1710	1040	61	1710	979	57	6	10-134/88
7005-72-3	4-Chlorophenyl phenyl ether	ND		1710	1130	66	1710	1080	63	5	10-142/87
121-14-2	2,4-Dinitrotoluene	ND		1710	1100	64	1710	1020	60	8	10-147/86
606-20-2	2,6-Dinitrotoluene	ND		1710	1140	67	1710	1080	63	5	10-147/88
91-94-1	3,3'-Dichlorobenzidine	ND		1710	581	34	1710	591	34	2	10-106/93
123-91-1	1,4-Dioxane	ND		1710	550	32	1710	536	31	3	10-102/85
53-70-3	Dibenzo(a,h)anthracene	161		1710	1330	68	1710	1350	69	1	10-149/89
132-64-9	Dibenzofuran	27.1	J	1710	1130	65	1710	1140	65	1	10-155/86
84-74-2	Di-n-butyl phthalate	5.5	J	1710	1160	68	1710	1130	66	3	10-158/86
117-84-0	Di-n-octyl phthalate	ND		1710	1180	69	1710	1140	67	3	10-154/84
84-66-2	Diethyl phthalate	ND		1710	1100	64	1710	1060	62	4	10-148/84
131-11-3	Dimethyl phthalate	ND		1710	1110	65	1710	1060	62	5	10-144/85
117-81-7	bis(2-Ethylhexyl)phthalate	102		1710	1170	63	1710	1100	58	6	10-153/84
206-44-0	Fluoranthene	1420		1710	2490	63	1710	3730	135	40	10-165/93
86-73-7	Fluorene	57.1		1710	1200	67	1710	1270	71	6	10-158/87
118-74-1	Hexachlorobenzene	ND		1710	1110	65	1710	1070	62	4	10-139/85
87-68-3	Hexachlorobutadiene	ND		1710	953	56	1710	902	53	5	10-139/88
77-47-4	Hexachlorocyclopentadiene	ND		3420	132	4* [a]	3430	139	4* [a]	5	10-116/30
67-72-1	Hexachloroethane	ND		1710	765	45	1710	730	43	5	10-141/93
193-39-5	Indeno(1,2,3-cd)pyrene	446		1710	1650	70	1710	1880	84	13	10-160/91
78-59-1	Isophorone	ND		1710	1020	60	1710	984	57	4	10-150/86
91-57-6	2-Methylnaphthalene	33.8	J	1710	1100	62	1710	1080	61	2	10-145/86
88-74-4	2-Nitroaniline	ND		1710	1110	65	1710	1040	61	7	10-152/77
99-09-2	3-Nitroaniline	ND		1710	825	48	1710	773	45	7	10-136/83
100-01-6	4-Nitroaniline	ND		1710	911	53	1710	878	51	4	10-140/81
91-20-3	Naphthalene	42.7		1710	1070	60	1710	1060	59	1	10-146/87
98-95-3	Nitrobenzene	ND		1710	981	57	1710	946	55	4	10-146/88
621-64-7	N-Nitroso-di-n-propylamine	ND		1710	1010	59	1710	947	55	6	10-147/77
86-30-6	N-Nitrosodiphenylamine	ND		1710	1170	68	1710	1100	64	6	10-159/78
85-01-8	Phenanthrene	587		1710	1680	64	1710	2150	91	25	10-158/95
129-00-0	Pyrene	1260		1710	2410	67	1710	3540	133	38	10-176/90
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		1710	1060	62	1710	999	58	6	10-137/87

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55759-MS	CJ8018.D	1	07/01/24	KM	06/30/24	OP55759	ECJ348
OP55759-MSD	CJ8019.D	1	07/01/24	KM	06/30/24	OP55759	ECJ348
JD91204-1	CJ8012.D	1	07/01/24	KM	06/30/24	OP55759	ECJ348

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

CAS No.	Surrogate Recoveries	MS	MSD	JD91204-1	Limits
367-12-4	2-Fluorophenol	62%	57%	51%	10-99%
4165-62-2	Phenol-d5	62%	58%	58%	10-96%
118-79-6	2,4,6-Tribromophenol	70%	62%	55%	10-123%
4165-60-0	Nitrobenzene-d5	62%	58%	59%	10-109%
321-60-8	2-Fluorobiphenyl	69%	64%	66%	11-109%
1718-51-0	Terphenyl-d14	71%	68%	68%	10-120%

(a) Outside of in house control limits.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E6P4168-DFTPP
Lab File ID: 6P515526.D
Instrument ID: GCMS6P
Injection Date: 05/20/24
Injection Time: 16:17

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	47949	52.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	33240	36.1		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	46360	50.3		Pass
197	Less than 1.0% of mass 198	582	0.63		Pass
198	Base peak, 100% relative abundance	92099	100.0		Pass
199	5.0 - 9.0% of mass 198	4854	5.27		Pass
275	10.0 - 30.0% of mass 198	21734	23.6		Pass
365	1.0 - 100.0% of mass 198	3432	3.73		Pass
441	Present, but less than mass 443	14898	16.2	(85.4) [b]	Pass
442	40.0 - 100.0% of mass 198	91563	99.4		Pass
443	17.0 - 23.0% of mass 442	17455	19.0	(19.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P4168-ICC4168	6P515527.D	05/20/24	17:05	00:48	Initial cal 50
E6P4168-IC4168	6P515528.D	05/20/24	17:33	01:16	Initial cal 1
E6P4168-IC4168	6P515529.D	05/20/24	17:52	01:35	Initial cal 2
E6P4168-IC4168	6P515530.D	05/20/24	18:11	01:54	Initial cal 5
E6P4168-IC4168	6P515531.D	05/20/24	18:30	02:13	Initial cal 10
E6P4168-IC4168	6P515532.D	05/20/24	18:49	02:32	Initial cal 25
E6P4168-IC4168	6P515533.D	05/20/24	19:08	02:51	Initial cal 80
E6P4168-IC4168	6P515534.D	05/20/24	19:27	03:10	Initial cal 100
E6P4168-IC4168	6P515535A.D	05/20/24	21:11	04:54	Initial cal 50
E6P4168-IC4168	6P515536.D	05/20/24	21:30	05:13	Initial cal 1
E6P4168-IC4168	6P515537.D	05/20/24	21:50	05:33	Initial cal 2
E6P4168-IC4168	6P515538.D	05/20/24	22:09	05:52	Initial cal 5
E6P4168-IC4168	6P515539.D	05/20/24	22:28	06:11	Initial cal 10
E6P4168-IC4168	6P515540.D	05/20/24	22:47	06:30	Initial cal 25
E6P4168-IC4168	6P515541.D	05/20/24	23:06	06:49	Initial cal 80
E6P4168-IC4168	6P515542.D	05/20/24	23:25	07:08	Initial cal 100
E6P4168-ICV4168	6P515543.D	05/20/24	23:44	07:27	Initial cal verification 50
E6P4168-ICV4168	6P515544.D	05/21/24	00:03	07:46	Initial cal verification 50
E6P4168-ICV4168	6P515545.D	05/21/24	00:22	08:05	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	E6P4168-DFTPP	**Injection Date:**	05/20/24
Lab File ID:	6P515526.D	**Injection Time:**	16:17
Instrument ID:	GCMS6P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P4168-ICV4168	6P515546.D	05/21/24	00:41	08:24	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: ECJ296-DFTPP
Lab File ID: CJ6488.D
Instrument ID: GCMSCJ
Injection Date: 05/08/24
Injection Time: 14:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	127437	43.4		Pass
68	Less than 2.0% of mass 69	263	0.09	(0.18) [a]	Pass
69	Mass 69 relative abundance	145224	49.5		Pass
70	Less than 2.0% of mass 69	743	0.25	(0.51) [a]	Pass
127	40.0 - 60.0% of mass 198	154005	52.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	293525	100.0		Pass
199	5.0 - 9.0% of mass 198	19452	6.63		Pass
275	10.0 - 31.0% of mass 198	66797	22.8		Pass
365	1.0 - 100.0% of mass 198	8388	2.86		Pass
441	Present, but less than mass 443	28606	9.75	(77.4) [b]	Pass
442	40.0 - 100.0% of mass 198	195269	66.5		Pass
443	17.0 - 23.0% of mass 442	36968	12.6	(18.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ECJ296-ICC296	CJ6490.D	05/08/24	16:42	01:46	Initial cal 50
ECJ296-IC296	CJ6491.D	05/08/24	17:20	02:24	Initial cal 1
ECJ296-IC296	CJ6492.D	05/08/24	17:39	02:43	Initial cal 2
ECJ296-IC296	CJ6493.D	05/08/24	17:58	03:02	Initial cal 5
ECJ296-IC296	CJ6494.D	05/08/24	18:17	03:21	Initial cal 10
ECJ296-IC296	CJ6495.D	05/08/24	18:36	03:40	Initial cal 25
ECJ296-IC296	CJ6496.D	05/08/24	18:54	03:58	Initial cal 80
ECJ296-IC296	CJ6497.D	05/08/24	19:13	04:17	Initial cal 100
ECJ296-IC296	CJ6498.D	05/08/24	19:32	04:36	Initial cal 50
ECJ296-IC296	CJ6499.D	05/08/24	19:51	04:55	Initial cal 1
ECJ296-IC296	CJ6500.D	05/08/24	20:10	05:14	Initial cal 2
ECJ296-IC296	CJ6501.D	05/08/24	20:29	05:33	Initial cal 5
ECJ296-IC296	CJ6502.D	05/08/24	20:47	05:51	Initial cal 10
ECJ296-IC296	CJ6503.D	05/08/24	21:06	06:10	Initial cal 25
ECJ296-IC296	CJ6504.D	05/08/24	21:25	06:29	Initial cal 80
ECJ296-IC296	CJ6505.D	05/08/24	21:43	06:47	Initial cal 100
ECJ296-ICV296	CJ6506.D	05/08/24	22:02	07:06	Initial cal verification 50
ECJ296-ICV296	CJ6507.D	05/08/24	22:20	07:24	Initial cal verification 50
ECJ296-ICV296	CJ6508.D	05/08/24	22:39	07:43	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	ECJ296-DFTPP	**Injection Date:**	05/08/24
Lab File ID:	CJ6488.D	**Injection Time:**	14:56
Instrument ID:	GCMSCJ		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ECJ296-ICV296	CJ6509.D	05/08/24	22:58	08:02	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EF9803-DFTPP
Lab File ID: F220643.D
Instrument ID: GCMSF
Injection Date: 06/24/24
Injection Time: 15:20

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	24381	44.7		Pass
68	Less than 2.0% of mass 69	79	0.14	(0.34) [a]	Pass
69	Mass 69 relative abundance	23531	43.1		Pass
70	Less than 2.0% of mass 69	156	0.29	(0.66) [a]	Pass
127	40.0 - 60.0% of mass 198	26996	49.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	54570	100.0		Pass
199	5.0 - 9.0% of mass 198	3594	6.59		Pass
275	10.0 - 30.0% of mass 198	11256	20.6		Pass
365	1.0 - 100.0% of mass 198	1019	1.87		Pass
441	Present, but less than mass 443	3684	6.75	(77.2) [b]	Pass
442	40.0 - 100.0% of mass 198	23577	43.2		Pass
443	17.0 - 23.0% of mass 442	4769	8.74	(20.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF9803-ICC9803	F220644.D	06/24/24	16:19	00:59	Initial cal 50
EF9803-IC9803	F220645B.D	06/24/24	18:29	03:09	Initial cal 1
EF9803-IC9803	F220646.D	06/24/24	18:55	03:35	Initial cal 2
EF9803-IC9803	F220647.D	06/24/24	19:22	04:02	Initial cal 5
EF9803-IC9803	F220648.D	06/24/24	19:48	04:28	Initial cal 10
EF9803-IC9803	F220649.D	06/24/24	20:15	04:55	Initial cal 25
EF9803-IC9803	F220650.D	06/24/24	20:41	05:21	Initial cal 80
EF9803-IC9803	F220651.D	06/24/24	21:07	05:47	Initial cal 100
EF9803-IC9803	F220652.D	06/24/24	21:34	06:14	Initial cal 50
EF9803-IC9803	F220653.D	06/24/24	22:00	06:40	Initial cal 1
EF9803-IC9803	F220654.D	06/24/24	22:26	07:06	Initial cal 2
EF9803-IC9803	F220655.D	06/24/24	22:52	07:32	Initial cal 5
EF9803-IC9803	F220656.D	06/24/24	23:18	07:58	Initial cal 10
EF9803-IC9803	F220657.D	06/24/24	23:45	08:25	Initial cal 25
EF9803-IC9803	F220658.D	06/25/24	00:11	08:51	Initial cal 80
EF9803-IC9803	F220659.D	06/25/24	00:37	09:17	Initial cal 100
EF9803-ICV9803	F220660.D	06/25/24	01:02	09:42	Initial cal verification 50
EF9803-ICV9803	F220661.D	06/25/24	01:28	10:08	Initial cal verification 50
EF9803-ICV9803	F220662.D	06/25/24	01:54	10:34	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	EF9803-DFTPP	**Injection Date:**	06/24/24
Lab File ID:	F220643.D	**Injection Time:**	15:20
Instrument ID:	GCMSF		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF9803-ICV9803	F220663.D	06/25/24	02:20	11:00	Initial cal verification 50

Internal Standard Area Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	E6P4200-CC4168	**Injection Date:**	07/02/24
Lab File ID:	6P516229.D	**Injection Time:**	12:34
Instrument ID:	GCMS6P	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	158301	4.46	669423	5.18	362501	6.30	612538	7.48	526554	9.91	587402	11.26
Check Std [b]	118583	4.39	501673	5.13	287867	6.25	536551	7.43	491253	9.91	549243	11.27
Upper Limit [c]	237166	4.56	1003346	5.30	575734	6.42	1073102	7.60	982506	10.08	1098486	11.44
Lower Limit [d]	59292	4.22	250837	4.96	143934	6.08	268276	7.26	245627	9.74	274622	11.10
Lab Sample ID	**IS 1 AREA**	**RT**	**IS 2 AREA**	**RT**	**IS 3 AREA**	**RT**	**IS 4 AREA**	**RT**	**IS 5 AREA**	**RT**	**IS 6 AREA**	**RT**
ZZZZZZ	76833	4.39	329146	5.14	193015	6.27	361241	7.44	378004	9.92	457912	11.30
ZZZZZZ	74732	4.39	335758	5.13	196952	6.25	353261	7.43	372165	9.92	461887	11.30
ZZZZZZ	79488	4.39	370678	5.13	224711	6.26	406407	7.44	373587	9.92	448589	11.29
ZZZZZZ	78356	4.39	338251	5.13	194078	6.25	349867	7.43	337162	9.91	425126	11.29
JD91204-14	85334	4.39	363740	5.13	206263	6.26	379194	7.43	339369	9.91	425212	11.28
ZZZZZZ	79497	4.39	359573	5.13	210355	6.26	389122	7.43	375749	9.91	441795	11.29
ZZZZZZ	91468	4.39	393989	5.13	226492	6.25	404069	7.43	368619	9.91	441304	11.28
ZZZZZZ	102970	4.39	444753	5.13	253470	6.26	458474	7.43	409607	9.91	489569	11.28
ZZZZZZ	88188	4.39	371370	5.13	209079	6.26	371723	7.43	329970	9.90	400034	11.28

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: E6P4168-ICC4168 6P515527.D 05/20/24 17:05
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Internal Standard Area Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	ECJ348-CC296	**Injection Date:**	07/01/24
Lab File ID:	CJ7985.D	**Injection Time:**	12:08
Instrument ID:	GCMSCJ	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	388362	4.66	1338976	5.47	756975	6.66	1383515	7.87	1108712	10.37	1144889	11.72
Check Std [b]	389756	4.37	1408297	5.16	825766	6.31	1523436	7.49	1246459	9.97	1355043	11.27
Upper Limit [c]	779512	4.54	2816594	5.33	1651532	6.48	3046872	7.66	2492918	10.14	2710086	11.44
Lower Limit [d]	194878	4.20	704149	4.99	412883	6.14	761718	7.32	623230	9.80	677522	11.10

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP55759-MB1	390341	4.36	1427767	5.16	794614	6.31	1419086	7.48	1115346	9.96	1180041	11.27
OP55759-BS1	387459	4.36	1374071	5.16	763423	6.31	1381509	7.49	1137677	9.97	1195347	11.27
OP55798-MB1	407525	4.36	1499766	5.16	844892	6.31	1554890	7.48	1263075	9.96	1304725	11.27
OP55798-BS1	397354	4.36	1389824	5.16	775490	6.31	1416660	7.49	1178646	9.97	1255562	11.27
ZZZZZZ	432786	4.36	1581470	5.16	877374	6.31	1572766	7.48	1250798	9.96	1307543	11.27
JD91204-2	391381	4.36	1467822	5.16	854273	6.31	1570061	7.48	1290029	9.96	1349967	11.27
JD91204-3	401975	4.36	1505935	5.16	861610	6.31	1589816	7.48	1271672	9.96	1290675	11.27
JD91204-8	376620	4.37	1397305	5.16	784989	6.31	1455161	7.48	1182939	9.96	1220354	11.27
JD91204-12	406313	4.36	1518010	5.16	864404	6.31	1583758	7.48	1234440	9.97	1279305	11.28
JD91204-13	399328	4.36	1486784	5.16	838596	6.31	1568548	7.49	1217162	9.96	1222333	11.28
JD91204-15	388312	4.36	1445929	5.16	819436	6.31	1534579	7.49	1220718	9.96	1229883	11.27
JD91204-17	383462	4.37	1432667	5.16	792213	6.31	1450962	7.49	1178249	9.97	1219382	11.28
ZZZZZZ	406218	4.36	1486776	5.16	847906	6.31	1546533	7.49	1236269	9.96	1276966	11.27
JD91373-1	422690	4.36	1547124	5.16	874687	6.31	1615757	7.49	1278167	9.96	1319590	11.27
ZZZZZZ	409952	4.36	1520358	5.16	861048	6.31	1594456	7.49	1241570	9.96	1291805	11.27
ZZZZZZ	402228	4.36	1477155	5.16	834804	6.31	1532285	7.49	1186032	9.97	1230449	11.28
ZZZZZZ	413701	4.36	1512748	5.16	842432	6.31	1524923	7.49	1179227	9.97	1230039	11.28
OP55798-MS	394292	4.37	1435380	5.16	809101	6.31	1472981	7.49	1182403	9.97	1212977	11.28
OP55798-MSD	395048	4.37	1439602	5.16	817027	6.31	1502383	7.49	1163489	9.97	1199798	11.28
JD91204-5	409292	4.37	1499705	5.16	854184	6.31	1579816	7.49	1246664	9.97	1281168	11.28
JD91204-10	373603	4.37	1377837	5.16	774136	6.31	1411856	7.49	1106039	9.97	1162625	11.28
JD91204-16	393070	4.37	1456204	5.16	824298	6.31	1528759	7.49	1159552	9.97	1168106	11.28
JD91204-14	373522	4.37	1367625	5.16	764618	6.31	1450188	7.49	1096753	9.98	1175914	11.29
JD91204-1	370618	4.36	1361257	5.16	769493	6.31	1420000	7.49	1105746	9.97	1150645	11.29
JD91204-4	371331	4.37	1353146	5.16	767722	6.31	1423047	7.49	1092383	9.97	1135044	11.29
JD91204-6	376057	4.37	1384703	5.17	788235	6.31	1450750	7.49	1122024	9.97	1150875	11.29
JD91204-7	397396	4.37	1447836	5.16	821615	6.31	1518781	7.49	1126384	9.97	1132360	11.29
JD91204-9	369120	4.37	1340519	5.16	755648	6.31	1385878	7.49	1063229	9.97	1101182	11.29
JD91204-11	402501	4.37	1463272	5.16	832714	6.31	1545354	7.49	1121934	9.97	1132035	11.29
OP55759-MS	406542	4.37	1414478	5.17	778831	6.31	1443188	7.49	1128692	9.98	1172305	11.29
OP55759-MSD	402538	4.37	1397748	5.17	785735	6.31	1448470	7.49	1091718	9.98	1126966	11.29

IS 1 = 1,4-Dichlorobenzene-d4

Internal Standard Area Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	ECJ348-CC296	**Injection Date:**	07/01/24
Lab File ID:	CJ7985.D	**Injection Time:**	12:08
Instrument ID:	GCMSCJ	**Method:**	SW846 8270E

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT

IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: ECJ296-ICC296 CJ6490.D 05/08/24 16:42
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Internal Standard Area Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	EF9807-CC9803	**Injection Date:**	06/29/24
Lab File ID:	F220732.D	**Injection Time:**	11:58
Instrument ID:	GCMSF	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	55327	4.64	215178	5.54	115212	6.94	193063	8.81	157124	14.07	164180	17.12
Check Std [b]	86129	4.64	336311	5.54	176768	6.94	298576	8.80	243183	14.06	247092	17.10
Upper Limit [c]	172258	4.81	672622	5.71	353536	7.11	597152	8.97	486366	14.23	494184	17.27
Lower Limit [d]	43065	4.47	168156	5.37	88384	6.77	149288	8.63	121592	13.89	123546	16.93

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP55747-MB1	58781	4.64	227550	5.54	118192	6.93	197778	8.79	156756	14.04	170972	17.09
ZZZZZZ	53925	4.64	213713	5.54	111588	6.93	188562	8.79	150312	14.04	163712	17.09
JD91204-18	55232	4.64	215949	5.54	111905	6.93	188049	8.79	146876	14.04	160866	17.09
JD91204-19	55659	4.64	221600	5.54	115464	6.93	192264	8.79	152501	14.04	161639	17.09
OP55747-BS1	51169	4.64	202504	5.54	102890	6.93	171453	8.79	139266	14.04	150552	17.09
OP55747-BSD	53612	4.64	210318	5.54	107374	6.93	181376	8.79	147135	14.04	156742	17.09
ZZZZZZ	51260	4.64	203562	5.54	106051	6.93	176390	8.79	144176	14.04	152111	17.09
ZZZZZZ	52436	4.64	213358	5.54	116668	6.93	197951	8.79	153533	14.04	160084	17.09
ZZZZZZ	56487	4.64	231705	5.54	119962	6.93	204988	8.79	159996	14.04	170596	17.09

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: EF9803-ICC9803 F220644.D 06/24/24 16:19
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Surrogate Recovery Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8270E **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD91204-18	F220737.D	36	21	78	64	69	77
JD91204-19	F220738.D	34	22	64	61	63	63
OP55747-BS1	F220739.D	42	30	79	70	79	64
OP55747-BSD	F220740.D	44	31	85	71	81	69
OP55747-MB1	F220735.D	36	24	67	64	66	67

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-71%
S2 = Phenol-d5	10-58%
S3 = 2,4,6-Tribromophenol	22-144%
S4 = Nitrobenzene-d5	28-118%
S5 = 2-Fluorobiphenyl	34-116%
S6 = Terphenyl-d14	10-127%

Surrogate Recovery Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8270E **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD91204-1	CJ8012.D	51	58	55	59	66	68
JD91204-2	CJ7994.D	23	26	27	30	34	34
JD91204-3	CJ7995.D	22	26	31	27	34	34
JD91204-4	CJ8013.D	49	55	63	53	61	63
JD91204-5	CJ8008.D	36	42	38	43	50	50
JD91204-6	CJ8014.D	44	50	51	51	58	54
JD91204-7	CJ8015.D	29	30	36	38	45	44
JD91204-8	CJ7996.D	52	58	67	55	63	65
JD91204-9	CJ8016.D	39	43	48	41	48	48
JD91204-10	CJ8009.D	37	39	45	38	42	42
JD91204-11	CJ8017.D	19	19	22	28	31	31
JD91204-12	CJ7997.D	15	17	22	20	25	26
JD91204-13	CJ7998.D	36	40	46	44	53	45
JD91204-14	6P516236.D	46	52	63	45	52	54
JD91204-14	CJ8011.D	43	47	53	47	53	55
JD91204-15	CJ7999.D	48	51	60	59	65	61
JD91204-16	CJ8010.D	26	28	32	36	42	40
JD91204-17	CJ8000.D	52	58	67	54	62	65
OP55759-BS1	CJ7990.D	61	64	74	62	72	79
OP55759-MB1	CJ7989.D	69	72	77	69	75	83
OP55759-MS	CJ8018.D	62	62	70	62	69	71
OP55759-MSD	CJ8019.D	57	58	62	58	64	68

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-99%
S2 = Phenol-d5	10-96%
S3 = 2,4,6-Tribromophenol	10-123%
S4 = Nitrobenzene-d5	10-109%
S5 = 2-Fluorobiphenyl	11-109%
S6 = Terphenyl-d14	10-120%

Initial Calibration Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E6P4168-ICC4168
Lab FileID: 6P515527.D

Response Factor Report GCMS6P

Method : C:\MSDCHEM\1\METHODS\M6P4168.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Sep 14 16:02:13 2023
Last Update : Thu May 23 15:07:43 2024
Response via : Initial Calibration

Calibration Files
2 =6p515529.D 5 =6p515530.D 25 =6p515532.D 80 =6p515533.D
100 =6p515534.D 50 =6p515527.D 1 =6p515528.D 10 =6p515531.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD									
2) 1,4-Dioxane	0.604	0.546	0.558	0.517	0.577	0.589	0.728	0.555	0.584	10.97
3) Pyridine	1.318	1.344	1.481	1.369	1.529	1.553	1.297	1.297	1.399	7.59
4) N-Nitrosodim	0.666	0.612	0.734	0.701	0.779	0.806	0.669	0.698	0.708	8.97
5) 2-Fluorophen	1.158	1.148	1.241	1.187	1.314	1.354	1.187	1.199	1.223	6.08
6) Indene	2.184	2.257	2.323	2.124	2.319	2.424	2.194	2.246	2.259	4.21
7) Cumene	2.629	2.762	2.882	2.675	2.950	3.064	2.585	2.759	2.788	5.93
8) Phenol-d5	1.366	1.377	1.447	1.364	1.506	1.584	1.453	1.373	1.434	5.56
9) Phenol	1.444	1.486	1.592	1.496	1.655	1.734	1.419	1.527	1.544	7.02
10) Aniline	1.692	1.798	1.966	1.832	1.962	2.041	1.555	1.872	1.840	8.65
11) bis(2-Chloro	1.118	1.274	1.324	1.196	1.308	1.390	1.151	1.208	1.246	7.47
12) 2-Chlorophen	1.130	1.249	1.337	1.239	1.378	1.413	1.174	1.241	1.270	7.75
13) Decane	2.094	2.057	2.136	1.938	2.150	2.238	2.220	2.007	2.105	4.88
14) 1,3-Dichloro	1.344	1.423	1.499	1.373	1.522	1.560	1.438	1.434	1.449	5.08
15) 1,4-Dichloro	1.417	1.373	1.507	1.396	1.541	1.568	1.446	1.446	1.462	4.80
16) Benzyl alcoh	0.866	0.828	0.903	0.873	0.991	0.982	0.829	0.861	0.892	7.12
17) 1,2-Dichloro	1.257	1.337	1.465	1.333	1.493	1.488	1.278	1.399	1.381	6.79
18) Acetophenone	1.933	1.935	2.006	1.837	2.002	2.091	1.805	1.909	1.940	4.82
19) 2-Methylphen	1.132	1.113	1.237	1.146	1.285	1.333	1.128	1.200	1.197	6.82
20) 2,2'-oxybis(	0.435	0.432	0.408	0.379	0.412	0.434	0.362	0.402	0.408	6.53
21) 3&4-Methylph	1.190	1.246	1.312	1.197	1.308	1.361	1.129	1.273	1.252	6.11
22) n-Nitroso-di	0.830	0.922	0.927	0.862	0.980	1.012	0.915	0.908	0.920	6.34
23) Hexachloroet	0.464	0.516	0.500	0.465	0.508	0.516	0.455	0.469	0.487	5.28
24) I Naphthalene-d8	ISTD									
25) Nitrobenzene	0.339	0.348	0.384	0.352	0.384	0.401	0.337	0.351	0.362	6.65
26) Nitrobenzene	0.294	0.346	0.356	0.333	0.362	0.382	0.347	0.326	0.343	7.68
27) Quinoline	0.543	0.590	0.616	0.581	0.640	0.639	0.548	0.567	0.590	6.42
28) Isophorone	0.583	0.613	0.644	0.586	0.640	0.670	0.532	0.601	0.609	7.11
29) 2-Nitropheno	0.144	0.152	0.173	0.156	0.169	0.183	0.143	0.147	0.158	9.40
30) 2,4-Dimethyl	0.303	0.336	0.348	0.314	0.343	0.357	0.326	0.325	0.331	5.45
31) Benzoic acid		0.186	0.266	0.253	0.279	0.293		0.220	0.249	15.96
32) bis(2-Chloro	0.324	0.360	0.391	0.351	0.383	0.401	0.334	0.351	0.362	7.55
33) 2,4-Dichloro	0.248	0.250	0.269	0.250	0.275	0.280	0.261	0.244	0.260	5.22
34) 2,6-Dichloro	0.234	0.264	0.268	0.245	0.262	0.270	0.239	0.251	0.254	5.36
35) 1,3,5-Trichl	0.281	0.263	0.288	0.256	0.276	0.292	0.279	0.270	0.276	4.41
36) 1,2,4-Trichl	0.243	0.274	0.273	0.249	0.276	0.286	0.244	0.255	0.263	6.35
37) 1,2,3-Trichl	0.232	0.268	0.272	0.247	0.270	0.279	0.236	0.253	0.257	6.88
38) Naphthalene	0.868	0.927	0.958	0.881	0.972	0.993	0.866	0.892	0.920	5.44
39) 4-Chloroanil	0.311	0.358	0.381	0.345	0.364	0.360	0.292	0.351	0.345	8.50
40) 2,3-Dichloro	0.290	0.304	0.321	0.290	0.317	0.326	0.249	0.295	0.299	8.25
41) Hydroquinone		0.228	0.300	0.236	0.226	0.274		0.257	0.253	11.58
42) Hexachlorobu	0.148	0.154	0.158	0.149	0.157	0.157	0.135	0.143	0.150	5.32
43) 4-Chloro-3-m	0.247	0.287	0.291	0.269	0.296	0.303	0.256	0.271	0.277	7.17
44) 2-Methylnaph	0.502	0.552	0.583	0.535	0.578	0.596	0.520	0.544	0.551	5.92
45) 1-Methylnaph	0.481	0.527	0.551	0.511	0.555	0.572	0.509	0.514	0.528	5.67

Initial Calibration Summary

Job Number: JD91204 **Sample:** E6P4168-ICC4168
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 6P515527.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

46) I Acenaphthene-d10 ----------ISTD----------
47) Hexachlorocy 0.271 0.267 0.331 0.289 0.276 0.313 0.251 0.289 0.286 9.07
48) 1,2,4,5-tetr 0.468 0.492 0.501 0.449 0.462 0.514 0.450 0.466 0.475 5.11
49) 2,4,6-Trichl 0.312 0.354 0.352 0.316 0.324 0.355 0.339 0.325 0.335 5.34
50) 2,4,5-Trichl 0.317 0.342 0.388 0.355 0.358 0.392 0.264 0.338 0.344 11.87
51) 2-Fluorobiph 1.177 1.239 1.303 1.202 1.213 1.327 1.212 1.233 1.238 4.15
52) 2-Chloronaph 0.954 1.106 1.148 1.054 1.075 1.170 0.993 1.052 1.069 6.82
53) Biphenyl 1.356 1.395 1.440 1.321 1.351 1.467 1.261 1.327 1.365 4.91
54) 2-Nitroanili 0.305 0.344 0.378 0.353 0.372 0.403 0.369 0.343 0.358 8.17
55) Dimethylphth 1.135 1.240 1.312 1.231 1.261 1.352 1.130 1.176 1.230 6.50
56) Acenaphthyle 1.394 1.576 1.629 1.513 1.546 1.716 1.498 1.495 1.546 6.28
57) 2,6-Dinitrot 0.231 0.235 0.275 0.260 0.267 0.283 0.266 0.225 0.255 8.60
58) 3-Nitroanili 0.245 0.265 0.312 0.299 0.305 0.287 0.187 0.264 0.271 15.11
59) Acenaphthene 0.980 1.118 1.163 1.075 1.094 1.194 1.071 1.067 1.095 5.96
60) 2,4-Dinitrop 0.070 0.082 0.122 0.141 0.154 0.154 0.098 0.117 29.51
----- Quadratic regression ----- Coefficient = 0.9954
Response Ratio = -0.00862 + 0.12882 *A + 0.00524 *A^2

61) 4-Nitropheno 0.145 0.177 0.206 0.202 0.209 0.214 0.191 0.170 0.189 12.47
62) Dibenzofuran 1.437 1.538 1.622 1.483 1.516 1.647 1.457 1.500 1.525 4.90
63) 2,4-Dinitrot 0.300 0.328 0.381 0.372 0.384 0.424 0.354 0.330 0.359 10.98
64) 2,3,4,6-Tetr 0.260 0.265 0.301 0.282 0.287 0.309 0.245 0.267 0.277 7.82
65) Diethylphtha 1.202 1.320 1.364 1.267 1.298 1.405 1.264 1.208 1.291 5.49
66) Fluorene 1.115 1.244 1.317 1.200 1.240 1.328 1.181 1.189 1.227 5.81
67) 4-Chlorophen 0.566 0.585 0.585 0.525 0.532 0.586 0.511 0.536 0.553 5.50
68) 4-Nitroanili 0.224 0.269 0.321 0.306 0.325 0.316 0.256 0.288 13.50

69) I Phenanthrene-d10 ----------ISTD----------
70) 4,6-Dinitro- 0.073 0.101 0.107 0.112 0.123 0.075 0.099 20.73
----- Quadratic regression ----- Coefficient = 0.9949
Response Ratio = -0.00805 + 0.12287 *A + -0.00330 *A^2

71) n-Nitrosodip 0.565 0.578 0.642 0.580 0.588 0.662 0.583 0.602 0.600 5.66
72) 1,2-Diphenyl 0.704 0.768 0.836 0.736 0.740 0.863 0.706 0.744 0.762 7.65
73) pentachloron 0.035 0.039 0.039 0.039 0.038 0.042 0.037 0.038# 5.35
74) 2,4,6-Tribro 0.086 0.105 0.109 0.098 0.098 0.111 0.095 0.097 0.100 7.97
75) 4-Bromopheny 0.167 0.181 0.198 0.181 0.181 0.206 0.151 0.176 0.180 9.47
76) Hexachlorobe 0.208 0.207 0.231 0.206 0.209 0.234 0.210 0.211 0.215 5.30
77) Pentachlorop 0.114 0.130 0.147 0.133 0.136 0.152 0.116 0.128 0.132 10.08
78) Phenanthrene 0.989 1.025 1.086 0.987 1.009 1.124 0.886 0.991 1.012 7.04
79) Anthracene 0.961 1.029 1.106 1.012 1.031 1.154 0.906 0.999 1.025 7.60
80) Carbazole 0.881 0.980 1.068 0.969 0.971 1.099 0.930 0.969 0.983 7.16
81) Di-n-butylph 1.092 1.240 1.379 1.266 1.279 1.449 1.060 1.209 1.247 10.51
82) Fluoranthene 1.006 1.084 1.213 1.099 1.112 1.245 0.946 1.080 1.098 8.90
83) Octadecane 0.599 0.670 0.713 0.652 0.648 0.751 0.623 0.647 0.663 7.34

84) I Chrysene-d12 ----------ISTD----------
85) benzidine 0.050 0.343 0.454 0.414 0.131 0.136 0.255 66.64
86) Pyrene 1.248 1.348 1.459 1.349 1.382 1.507 1.226 1.331 1.356 7.02
87) Terphenyl-d1 0.905 0.960 1.067 0.981 1.017 1.099 0.890 0.972 0.986 7.35
88) Butylbenzylp 0.549 0.611 0.693 0.646 0.675 0.744 0.535 0.605 0.632 11.33
89) Benzo[a]anth 1.169 1.209 1.314 1.231 1.248 1.377 1.260 1.201 1.251 5.34
90) 3,3'-Dichlor 0.209 0.370 0.493 0.465 0.484 0.494 0.400 0.417 24.87
----- Quadratic regression ----- Coefficient = 0.9990
Response Ratio = -0.01634 + 0.50837 *A + -0.00965 *A^2

91) Chrysene 1.092 1.142 1.307 1.140 1.162 1.306 1.051 1.178 1.172 7.85
92) bis(2-Ethylh 0.794 0.904 1.029 0.960 0.974 1.081 0.862 0.903 0.938 9.82

Initial Calibration Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E6P4168-ICC4168
Lab FileID: 6P515527.D

```
 93) I   Perylene-d12          ----------------ISTD--------------------
 94) Di-n-octylph 1.232 1.408 1.615 1.531 1.518 1.743 1.319 1.370 1.467  11.37
 95) Benzo[b]fluo 1.020 1.100 1.303 1.184 1.136 1.257 1.040 1.109 1.144   8.66
 96) Benzo[k]fluo 0.981 1.087 1.189 1.024 1.042 1.271 1.009 1.062 1.083   9.11
 97) Benzo[a]pyre 0.903 0.963 1.096 1.003 0.986 1.121 0.889 0.953 0.989   8.41
 98) Indeno[1,2,3 1.166 1.230 1.418 1.321 1.301 1.487 1.180 1.226 1.291   8.84
 99) Dibenz(a,h)a 0.762 0.845 0.964 0.906 0.896 1.025 0.809 0.839 0.881   9.68
100) Dibenz[a,h]a 0.933 1.010 1.161 1.069 1.057 1.216 0.930 1.022 1.050   9.57
101) 7,12-Dimethy 0.389 0.379 0.527 0.472 0.456 0.510 0.420 0.455 0.451  11.80
102) Benzo[g,h,i] 0.939 0.955 1.096 0.999 1.002 1.118 0.959 0.951 1.002   6.84

103)     1,4-Dichlorobenzene-d ----------------ISTD--------------------
104) Benzaldehyde 1.243 1.203 1.088 1.198 1.161 1.248 1.052 1.314 1.188   7.28

105)     Phenanthrene-d10a     ----------------ISTD--------------------
106) Atrazine     0.095 0.103 0.092 0.100 0.100 0.104 0.106 0.106 0.101   5.11

107) I   Naphthalene-d8a       ----------------ISTD--------------------
108) Caprolactam  0.163 0.171 0.167 0.192 0.192 0.204       0.180 0.181   8.46

109)     Phenanthrene-d10b     ----------------ISTD--------------------
110) 1-chloroocta 0.413 0.452 0.444 0.502 0.501 0.518 0.419 0.488 0.467   8.70
111) o-terphenyl  0.506 0.538 0.509 0.546 0.547 0.562 0.491 0.589 0.536   6.05


 ------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M6P4168.M         Thu May 23 15:10:10 2024
```

Initial Calibration Verification

Job Number: JD91204 **Sample:** E6P4168-ICV4168
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 6P515543.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P4168\6p515543.D Vial: 18
Acq On : 20 May 2024 11:44 pm Operator: rocquans
Sample : icv4168-50 Inst : GCMS6P
Misc : op50815,e6p4168,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P4168.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Sep 14 16:02:13 2023
Last Update : Thu May 23 14:09:21 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	4.46
2	t	1,4-Dioxane	0.584	0.533	8.7	90	0.00	2.73
6	t	Indene	2.259	2.221	1.7	91	0.00	4.60
7	t	Cumene	2.788	2.787	0.0	91	0.00	4.01
11	t	bis(2-Chloroethyl)ether	1.246	1.252	-0.5	90	0.00	4.30
13	t	Decane	2.105	2.062	2.0	92	0.00	4.36
14	t	1,3-Dichlorobenzene	1.449	1.409	2.8	90	0.00	4.43
15	t	1,4-Dichlorobenzene	1.462	1.435	1.8	91	0.00	4.47
16	t	Benzyl alcohol	0.892	0.876	1.8	89	0.00	4.52
17	t	1,2-Dichlorobenzene	1.381	1.387	-0.4	93	0.00	4.56
18	t	Acetophenone	1.940	1.886	2.8	90	0.00	4.68
20	t	2,2'-oxybis(1-Chloropropa	0.408	0.381	6.6	88	0.00	4.60
23	t	Hexachloroethane	0.487	0.477	2.1	92	0.00	4.74
24	I	Naphthalene-d8	1.000	1.000	0.0	96	-0.01	5.17
26	t	Nitrobenzene	0.343	0.342	0.3	86	0.00	4.77
27	t	Quinoline	0.590	0.602	-2.0	90	-0.03	5.37
28	t	Isophorone	0.609	0.622	-2.1	89	-0.01	4.90
32	t	bis(2-Chloroethoxy)methan	0.362	0.382	-5.5	91	-0.01	5.02
35		1,3,5-Trichlorobenzene	0.276	0.286	-3.6	94	-0.01	4.96
36	t	1,2,4-Trichlorobenzene	0.263	0.266	-1.1	89	-0.01	5.13
37		1,2,3-Trichlorobenzene	0.257	0.265	-3.1	91	-0.02	5.26
38	t	Naphthalene	0.920	0.928	-0.9	90	-0.02	5.18
40	t	2,3-Dichloroaniline	0.299	0.301	-0.7	89	-0.02	5.77
42	t	Hexachlorobutadiene	0.150	0.154	-2.7	94	-0.02	5.25
44	t	2-Methylnaphthalene	0.551	0.560	-1.6	90	-0.01	5.59
45	t	1-Methylnaphthalene	0.528	0.528	0.0	89	-0.02	5.65
46	I	Acenaphthene-d10	1.000	1.000	0.0	97	-0.02	6.29
47	t	Hexachlorocyclopentadiene	0.286	0.323	-12.9	100	-0.02	5.69
48		1,2,4,5-tetrachlorobenzen	0.475	0.476	-0.2	90	-0.02	5.69

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E6P4168-ICV4168
Lab FileID: 6P515543.D

52	t	2-Chloronaphthalene	1.069	1.089	-1.9	90	-0.02	5.90
53	t	Biphenyl	1.365	1.373	-0.6	91	-0.02	5.89
55	t	Dimethylphthalate	1.230	1.262	-2.6	90	-0.02	6.09
56	t	Acenaphthylene	1.546	1.613	-4.3	91	-0.02	6.19
57	t	2,6-Dinitrotoluene	0.255	0.254	0.4	87	-0.02	6.13
59	t	Acenaphthene	1.095	1.117	-2.0	91	-0.02	6.31
62	t	Dibenzofuran	1.525	1.547	-1.4	91	-0.02	6.44
63	t	2,4-Dinitrotoluene	0.359	0.340	5.3	78	-0.02	6.42
65	t	Diethylphthalate	1.291	1.277	1.1	88	-0.02	6.59
66	t	Fluorene	1.227	1.242	-1.2	91	-0.02	6.69
67	t	4-Chlorophenyl-phenylethe	0.553	0.540	2.4	89	-0.02	6.68
69	I	Phenanthrene-d10	1.000	1.000	0.0	99	-0.02	7.46

			AvgRF	CCRF	% Dev			
72	t	1,2-Diphenylhydrazine	0.762	0.764	-0.3	88	-0.02	6.81
73		pentachloronitrobenzene	0.038	0.038#	0.0	89	-0.02	7.30
75	t	4-Bromophenyl-phenylether	0.180	0.188	-4.4	91	-0.02	7.07
76	t	Hexachlorobenzene	0.215	0.221	-2.8	94	-0.02	7.13
78	t	Phenanthrene	1.012	1.010	0.2	89	-0.02	7.48
79	t	Anthracene	1.025	1.040	-1.5	89	-0.02	7.52
80	t	Carbazole	0.983	1.007	-2.4	91	-0.01	7.66
81	t	Di-n-butylphthalate	1.247	1.284	-3.0	88	-0.01	7.97
82	t	Fluoranthene	1.098	1.122	-2.2	89	-0.01	8.54
83	t	Octadecane	0.663	0.667	-0.6	88	-0.02	7.35
84	I	Chrysene-d12	1.000	1.000	0.0	99	-0.01	9.90
86	t	Pyrene	1.356	1.373	-1.3	90	-0.01	8.75
88	t	Butylbenzylphthalate	0.632	0.644	-1.9	86	0.00	9.38
89	t	Benzo[a]anthracene	1.251	1.225	2.1	88	-0.01	9.89

			True	Calc.	% Drift			
90	t	3,3'-Dichlorobenzidine		NA				

			AvgRF	CCRF	% Dev			
91	t	Chrysene	1.172	1.208	-3.1	92	0.00	9.93
92	t	bis(2-Ethylhexyl)phthalat	0.938	0.971	-3.5	89	0.00	9.94
93	I	Perylene-d12	1.000	1.000	0.0	100	0.00	11.25
94	t	Di-n-octylphthalate	1.467	1.535	-4.6	88	-0.01	10.54
95	t	Benzo[b]fluoranthene	1.144	1.257	-9.9	100	-0.01	10.88
96	t	Benzo[k]fluoranthene	1.083	1.075	0.7	84	-0.01	10.91
97	t	Benzo[a]pyrene	0.989	1.042	-5.4	93	-0.01	11.19
98	t	Indeno[1,2,3-cd]pyrene	1.291	1.378	-6.7	92	-0.01	12.44
99	t	Dibenz(a,h)acridine	0.881	0.935	-6.1	91	-0.01	12.16
100	t	Dibenz[a,h]anthracene	1.050	1.126	-7.2	92	-0.01	12.47
101	t	7,12-Dimethylbenz(a)anthr	0.451	0.462	-2.4	90	-0.01	10.88
102	t	Benzo[g,h,i]perylene	1.002	1.065	-6.3	95	-0.02	12.79

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E6P4168-ICV4168
Lab FileID: 6P515543.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p515527.D M6P4168.M Thu May 23 14:28:42 2024

Initial Calibration Verification

Job Number: JD91204 **Sample:** E6P4168-ICV4168
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 6P515544.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P4168\6p515544.D Vial: 19
Acq On : 21 May 2024 12:03 am Operator: rocquans
Sample : icv4168-50 Inst : GCMS6P
Misc : op50815,e6p4168,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P4168.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Sep 14 16:02:13 2023
Last Update : Thu May 23 14:09:21 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	4.46
9 t	Phenol	1.544	1.466	5.1	85	0.00	4.24
12 t	2-Chlorophenol	1.270	1.221	3.9	87	0.00	4.34
19 t	2-Methylphenol	1.197	1.106	7.6	83	0.00	4.58
21 t	3&4-Methylphenol	1.252	1.160	7.3	86	0.00	4.66
24 I	Naphthalene-d8	1.000	1.000	0.0	98	-0.01	5.17
29 t	2-Nitrophenol	0.158	0.152	3.8	82	0.00	4.95
30 t	2,4-Dimethylphenol	0.331	0.312	5.7	86	0.00	4.96
31 t	Benzoic acid	0.249	0.229	8.0	77	-0.02	5.02
33 t	2,4-Dichlorophenol	0.260	0.248	4.6	87	-0.02	5.08
34 t	2,6-Dichlorophenol	0.254	0.246	3.1	89	-0.02	5.21
41 t	Hydroquinone	0.253	0.291	-15.0	105	-0.02	5.42
43 t	4-Chloro-3-methylphenol	0.277	0.274	1.1	89	-0.02	5.48
46 I	Acenaphthene-d10	1.000	1.000	0.0	98	-0.02	6.29
49 t	2,4,6-Trichlorophenol	0.335	0.333	0.6	92	-0.02	5.76
50 t	2,4,5-Trichlorophenol	0.344	0.331	3.8	82	-0.02	5.79
	---------- True	Calc.	% Drift	----------			
60 t	2,4-Dinitrophenol	100.000	81.244	18.8	70	-0.03	6.32
	---------- AvgRF	CCRF	% Dev	----------			
61 t	4-Nitrophenol	0.189	0.187	1.1	85	-0.03	6.35
64	2,3,4,6-Tetrachlorophenol	0.277	0.274	1.1	87	-0.02	6.52
69 I	Phenanthrene-d10	1.000	1.000	0.0	101	-0.02	7.45
	---------- True	Calc.	% Drift	----------			

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E6P4168-ICV4168
Lab FileID: 6P515544.D

70	t	4,6-Dinitro-2-methylpheno	50.000	38.237	23.5	70	-0.03	6.72
77	t	Pentachlorophenol	0.132	0.129	2.3	87	-0.02	7.29

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p515527.D M6P4168.M Thu May 23 14:28:45 2024

Initial Calibration Verification

Job Number: JD91204 **Sample:** E6P4168-ICV4168
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 6P515545.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P4168\6p515545.D Vial: 20
Acq On : 21 May 2024 12:22 am Operator: rocquans
Sample : icv4168-50 Inst : GCMS6P
Misc : op50815,e6p4168,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P4168.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Sep 14 16:02:13 2023
Last Update : Thu May 23 14:09:21 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00	4.46
3	t	Pyridine	1.399	1.397	0.1	89	0.00	2.94
4	t	N-Nitrosodimethylamine	0.708	0.784	-10.7	96	0.00	2.91
10		Aniline	1.840	1.911	-3.9	93	0.00	4.27
22	t	n-Nitroso-di-n-propylamin	0.920	0.908	1.3	89	-0.01	4.67
24	I	Naphthalene-d8	1.000	1.000	0.0	99	-0.01	5.17
39	t	4-Chloroaniline	0.345	0.358	-3.8	98	-0.02	5.20
46	I	Acenaphthene-d10	1.000	1.000	0.0	96	-0.02	6.29
54	t	2-Nitroaniline	0.358	0.346	3.4	83	-0.02	5.97
58	t	3-Nitroaniline	0.271	0.296	-9.2	99	-0.03	6.25
68	t	4-Nitroaniline	0.288	0.289	-0.3	88	-0.03	6.71
69	I	Phenanthrene-d10	1.000	1.000	0.0	100	-0.02	7.45
			AvgRF	CCRF	% Dev			
71	t	n-Nitrosodiphenylamine	0.600	0.582	3.0	88	-0.02	6.77
84	I	Chrysene-d12	1.000	1.000	0.0	101	-0.02	9.90
85		benzidine	0.255	0.661	-159.2#	507#	-0.02	8.66
			True	Calc.	% Drift			
90	t	3,3'-Dichlorobenzidine	50.000	47.850	4.3	94	-0.02	9.87

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E6P4168-ICV4168
Lab FileID: 6P515545.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p515527.D M6P4168.M Thu May 23 14:28:47 2024

Initial Calibration Verification

Job Number: JD91204 **Sample:** E6P4168-ICV4168
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 6P515546.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P4168\6p515546.D Vial: 21
Acq On : 21 May 2024 12:41 am Operator: rocquans
Sample : icv4168-50 Inst : GCMS6P
Misc : op50815,e6p4168,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P4168.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Sep 14 16:02:13 2023
Last Update : Thu May 23 15:07:43 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	93	0.00	4.46
104	Benzaldehyde	1.188	1.225	-3.1	91	0.00	4.21
105	Phenanthrene-d10a	1.000	1.000	0.0	94	0.00	7.45
106	Atrazine	0.101	0.101	0.0	91	0.00	7.20
107 I	Naphthalene-d8a	1.000	1.000	0.0	95	0.00	5.17
108 T	Caprolactam	0.181	0.187	-3.3	87	0.00	5.41

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p515535b.D M6P4168.M Thu May 23 15:10:35 2024

Continuing Calibration Summary

Job Number: JD91204 **Sample:** E6P4200-CC4168
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 6P516229.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : R:\MSSEMI\Completed\...as\E6P4200\6p516229.d Vial: 3
Acq On : 2 Jul 2024 12:34 pm Operator: anthonyo
Sample : cc4168-50 Inst : GCMS6P
Misc : op55678,e6p4200,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...ETHODS\M6P4168.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Sep 14 16:02:13 2023
Last Update : Tue Jul 02 20:47:15 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	75	0.00	4.39
2	t	1,4-Dioxane	0.584	0.536	8.2	68	0.00	2.44
3	t	Pyridine	1.399	1.431	-2.3	69	0.00	2.70
4	t	N-Nitrosodimethylamine	0.708	0.696	1.7	65	0.00	2.67
5	S	2-Fluorophenol	1.223	1.322	-8.1	73	0.00	3.60
6	t	Indene	2.259	2.533	-12.1	78	0.00	4.54
7	t	Cumene	2.788	3.017	-8.2	74	0.00	3.90
8	S	Phenol-d5	1.434	1.639	-14.3	78	0.00	4.18
9	t	Phenol	1.544	1.933	-25.2#	83	0.00	4.18
10		Aniline	1.840	2.180	-18.5	80	0.00	4.19
11	t	bis(2-Chloroethyl)ether	1.246	1.332	-6.9	72	0.00	4.23
12	t	2-Chlorophenol	1.270	1.436	-13.1	76	0.00	4.27
13	t	Decane	2.105	1.454	30.9#	49#	0.00	4.28
14	t	1,3-Dichlorobenzene	1.449	1.499	-3.5	72	0.00	4.35
15	t	1,4-Dichlorobenzene	1.462	1.551	-6.1	74	0.00	4.39
16	t	Benzyl alcohol	0.892	0.959	-7.5	73	0.00	4.47
17	t	1,2-Dichlorobenzene	1.381	1.466	-6.2	74	0.00	4.49
18	t	Acetophenone	1.940	2.283	-17.7	82	0.00	4.62
19	t	2-Methylphenol	1.197	1.361	-13.7	77	0.00	4.53
20	t	2,2'-oxybis(1-Chloropropa	0.408	0.446	-9.3	77	0.00	4.54
21	t	3&4-Methylphenol	1.252	1.455	-16.2	80	0.00	4.63
22	t	n-Nitroso-di-n-propylamin	0.920	0.985	-7.1	73	0.00	4.62
23	t	Hexachloroethane	0.487	0.566	-16.2	82	0.00	4.68
24	I	Naphthalene-d8	1.000	1.000	0.0	75	0.00	5.13
25	S	Nitrobenzene-d5	0.362	0.378	-4.4	71	0.00	4.72
26	t	Nitrobenzene	0.343	0.386	-12.5	76	0.00	4.73
27	t	Quinoline	0.590	0.701	-18.8	82	0.00	5.36
28	t	Isophorone	0.609	0.703	-15.4	79	0.00	4.87
29	t	2-Nitrophenol	0.158	0.193	-22.2#	79	0.00	4.91
30	t	2,4-Dimethylphenol	0.331	0.388	-17.2	81	0.00	4.93
31	t	Benzoic acid	0.249	0.270	-8.4	69	0.00	5.02
32	t	bis(2-Chloroethoxy)methan	0.362	0.413	-14.1	77	0.00	4.98
33	t	2,4-Dichlorophenol	0.260	0.278	-6.9	74	0.00	5.05
34	t	2,6-Dichlorophenol	0.254	0.280	-10.2	78	0.00	5.18
35		1,3,5-Trichlorobenzene	0.276	0.318	-15.2	82	0.00	4.91
36	t	1,2,4-Trichlorobenzene	0.263	0.303	-15.2	79	0.00	5.09
37		1,2,3-Trichlorobenzene	0.257	0.303	-17.9	81	0.00	5.23
38	t	Naphthalene	0.920	1.045	-13.6	79	0.00	5.14
39	t	4-Chloroaniline	0.345	0.438	-27.0#	91	0.00	5.18
40	t	2,3-Dichloroaniline	0.299	0.342	-14.4	79	0.00	5.74
41	t	Hydroquinone	0.253	0.206	18.6	56	0.00	5.37

Continuing Calibration Summary

Job Number: JD91204 **Sample:** E6P4200-CC4168
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 6P516229.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42	t	Hexachlorobutadiene	0.150	0.192	-28.0#	92	0.00	5.20
43	t	4-Chloro-3-methylphenol	0.277	0.340	-22.7#	84	0.00	5.46
44	t	2-Methylnaphthalene	0.551	0.614	-11.4	77	0.00	5.55
45	t	1-Methylnaphthalene	0.528	0.598	-13.3	78	0.00	5.62
46	I	Acenaphthene-d10	1.000	1.000	0.0	79	0.00	6.25
47	t	Hexachlorocyclopentadiene	0.286	0.085	70.3#	21#	0.00	5.65
48		1,2,4,5-tetrachlorobenzen	0.475	0.543	-14.3	84	0.00	5.66
49	t	2,4,6-Trichlorophenol	0.335	0.341	-1.8	76	0.00	5.74
50	t	2,4,5-Trichlorophenol	0.344	0.371	-7.8	75	0.00	5.77
51	S	2-Fluorobiphenyl	1.238	1.335	-7.8	80	0.00	5.78
52	t	2-Chloronaphthalene	1.069	1.168	-9.3	79	0.00	5.88
53	t	Biphenyl	1.365	1.547	-13.3	84	0.00	5.85
54	t	2-Nitroaniline	0.358	0.416	-16.2	82	0.00	5.95
55	t	Dimethylphthalate	1.230	1.374	-11.7	81	0.00	6.05
56	t	Acenaphthylene	1.546	1.669	-8.0	77	0.00	6.15
57	t	2,6-Dinitrotoluene	0.255	0.306	-20.0	86	0.00	6.10
58	t	3-Nitroaniline	0.271	0.347	-28.0#	96	0.00	6.23
59	t	Acenaphthene	1.095	1.267	-15.7	84	0.00	6.28

			True	Calc.	% Drift			
60	t	2,4-Dinitrophenol	100.000	109.561	-9.6	79	0.00	6.32

			AvgRF	CCRF	% Dev			
61	t	4-Nitrophenol	0.189	0.163	13.8	60	0.00	6.35
62	t	Dibenzofuran	1.525	1.693	-11.0	82	0.00	6.40
63	t	2,4-Dinitrotoluene	0.359	0.443	-23.4#	83	0.00	6.40
64		2,3,4,6-Tetrachlorophenol	0.277	0.304	-9.7	78	0.00	6.50
65	t	Diethylphthalate	1.291	1.496	-15.9	85	0.00	6.56
66	t	Fluorene	1.227	1.384	-12.8	83	0.00	6.66
67	t	4-Chlorophenyl-phenylethe	0.553	0.643	-16.3	87	0.00	6.65
68	t	4-Nitroaniline	0.288	0.332	-15.3	84	0.00	6.69
69	I	Phenanthrene-d10	1.000	1.000	0.0	88	0.00	7.43

			True	Calc.	% Drift			
70	t	4,6-Dinitro-2-methylpheno	50.000	56.854	-13.7	91	0.00	6.72

			AvgRF	CCRF	% Dev			
71	t	n-Nitrosodiphenylamine	0.600	0.630	-5.0	83	0.00	6.74
72	t	1,2-Diphenylhydrazine	0.762	0.806	-5.8	82	0.00	6.77
73		pentachloronitrobenzene	0.038	0.048#	-26.3#	101	0.00	7.28
74	S	2,4,6-Tribromophenol	0.100	0.119	-19.0	94	0.00	6.85
75	t	4-Bromophenyl-phenylether	0.180	0.226	-25.6#	96	0.00	7.04
76	t	Hexachlorobenzene	0.215	0.259	-20.5#	97	0.00	7.11
77	t	Pentachlorophenol	0.132	0.123	6.8	71	0.00	7.27
78	t	Phenanthrene	1.012	1.101	-8.8	86	0.00	7.45
79	t	Anthracene	1.025	1.150	-12.2	87	0.00	7.50
80	t	Carbazole	0.983	1.014	-3.2	81	0.00	7.64
81	t	Di-n-butylphthalate	1.247	1.387	-11.2	84	0.00	7.92
82	t	Fluoranthene	1.098	1.251	-13.9	88	0.00	8.53
83	t	Octadecane	0.663	0.602	9.2	70	0.00	7.30
84	I	Chrysene-d12	1.000	1.000	0.0	93	0.00	9.91
85		benzidine	0.255	0.524	-105.5#	373#	0.00	8.65
86	t	Pyrene	1.356	1.398	-3.1	87	0.00	8.74
87	S	Terphenyl-d14	0.986	1.104	-12.0	94	0.00	8.88
88	t	Butylbenzylphthalate	0.632	0.695	-10.0	87	0.00	9.35
89	t	Benzo[a]anthracene	1.251	1.387	-10.9	94	0.00	9.90

Continuing Calibration Summary

Job Number: JD91204 **Sample:** E6P4200-CC4168
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 6P516229.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

			True	Calc.	% Drift			
90	t	3,3'-Dichlorobenzidine	50.000	54.931	-9.9	100	0.00	9.87

			AvgRF	CCRF	% Dev			
91	t	Chrysene	1.172	1.311	-11.9	94	0.00	9.94
92	t	bis(2-Ethylhexyl)phthalat	0.938	1.067	-13.8	92	0.00	9.90
93	I	Perylene-d12	1.000	1.000	0.0	94	0.00	11.27
94	t	Di-n-octylphthalate	1.467	1.587	-8.2	85	0.00	10.51
95	t	Benzo[b]fluoranthene	1.144	1.284	-12.2	96	0.00	10.90
96	t	Benzo[k]fluoranthene	1.083	1.293	-19.4	95	0.00	10.93
97	t	Benzo[a]pyrene	0.989	1.129	-14.2	94	0.00	11.22
98	t	Indeno[1,2,3-cd]pyrene	1.291	1.550	-20.1#	97	0.00	12.51
99	t	Dibenz(a,h)acridine	0.881	1.062	-20.5#	97	0.00	12.20
100	t	Dibenz[a,h]anthracene	1.050	1.274	-21.3#	98	0.00	12.52
101	t	7,12-Dimethylbenz(a)anthr	0.451	0.547	-21.3#	100	0.00	10.88
102	t	Benzo[g,h,i]perylene	1.002	1.158	-15.6	97	0.00	12.87

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p516229.d M6P4168.M Wed Jul 03 03:55:02 2024

Continuing Calibration Summary

Job Number: JD91204 **Sample:** E6P4200-CC4168
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 6P516230A.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : R:\MSSEMI\Completed\...s\E6P4200\6p516230a.d Vial: 4
Acq On : 2 Jul 2024 1:18 pm Operator: anthonyo
Sample : cc4168-50 Inst : GCMS6P
Misc : op55678,e6p4200,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...ETHODS\M6P4168.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Sep 14 16:02:13 2023
Last Update : Tue Jul 02 20:47:15 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	61	0.00	4.38
104	Benzaldehyde	1.188	1.299	-9.3	63	-0.08	4.13
105	Phenanthrene-d10a	1.000	1.000	0.0	72	0.00	7.43
106	Atrazine	0.101	0.109	-7.9	75	-0.03	7.17
107 I	Naphthalene-d8a	1.000	1.000	0.0	59	0.00	5.13
108 T	Caprolactam	0.181	0.185	-2.2	53	-0.03	5.38
109	Phenanthrene-d10b	1.000	1.000	0.0	72	0.00	7.43
110 s	1-chlorooctadecane	0.467	0.430	7.9	60	-0.03	8.39
111 s	o-terphenyl	0.536	0.643	-20.0	82	-0.03	7.75

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p516229.d M6P4168.M Wed Jul 03 03:55:05 2024

Initial Calibration Summary

Job Number: JD91204 **Sample:** ECJ296-ICC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6490.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Response Factor Report GCMSCJ

Method : D:\MassHunter\GC...methods\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Thu May 09 12:05:48 2024
Response via : Initial Calibration

Calibration Files
2 =cj6492.D 5 =cj6493.D 25 =cj6495.D 80 =cj6496.D
100 =cj6497.D 50 =cj6490.D 1 =cj6491.D 10 =cj6494.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD									
2) 1,4-Dioxane	0.508	0.548	0.573	0.538	0.583	0.588	0.495	0.508	0.543	6.75
3) Pyridine	1.223	1.320	1.506	1.441	1.592	1.597	1.230	1.339	1.406	10.71
4) N-Nitrosodim	0.702	0.710	0.800	0.745	0.822	0.824	0.675	0.722	0.750	7.73
5) 2-Fluorophen	1.045	1.147	1.215	1.156	1.267	1.279	0.991	1.097	1.150	8.94
6) Indene	1.978	2.113	2.152	1.917	2.058	2.189	2.027	2.024	2.057	4.40
7) Cumene	2.454	2.685	2.803	2.559	2.819	2.866	2.478	2.530	2.649	6.23
8) Phenol-d5	1.353	1.505	1.559	1.452	1.604	1.627	1.333	1.431	1.483	7.42
9) Phenol	1.470	1.595	1.675	1.568	1.731	1.751	1.447	1.544	1.598	7.10
10) Aniline	1.799	1.966	2.096	1.903	2.056	2.150	1.888	1.872	1.966	6.24
11) bis(2-Chloro	1.221	1.310	1.340	1.227	1.343	1.400	1.191	1.262	1.287	5.65
12) 2-Chlorophen	1.109	1.206	1.272	1.178	1.288	1.333	1.090	1.160	1.205	7.22
13) Decane	1.545	1.598	1.635	1.469	1.569	1.694	1.514	1.504	1.566	4.73
14) 1,3-Dichloro	1.308	1.421	1.467	1.335	1.438	1.493	1.265	1.367	1.387	5.82
15) 1,4-Dichloro	1.333	1.451	1.468	1.315	1.448	1.514	1.352	1.357	1.405	5.27
16) Benzyl alcoh	0.749	0.806	0.853	0.805	0.888	0.898	0.730	0.788	0.815	7.50
17) 1,2-Dichloro	1.326	1.369	1.421	1.252	1.389	1.425	1.239	1.310	1.341	5.34
18) Acetophenone	1.833	1.893	1.941	1.679	1.842	1.944	1.758	1.820	1.839	4.90
19) 2-Methylphen	1.045	1.134	1.162	1.057	1.163	1.195	1.053	1.062	1.109	5.49
20) 2,2'-oxybis(	0.345	0.367	0.383	0.345	0.376	0.390	0.348	0.348	0.363	5.13
21) 3&4-Methylph	1.082	1.174	1.215	1.061	1.176	1.217	1.071	1.135	1.141	5.58
22) n-Nitroso-di	0.877	0.951	0.966	0.871	0.959	0.984	0.897	0.917	0.928	4.66
23) Hexachloroet	0.468	0.550	0.559	0.504	0.561	0.582	0.499	0.522	0.531	7.29
24) I Naphthalene-d8	ISTD									
25) Nitrobenzene	0.373	0.400	0.439	0.393	0.435	0.462	0.372	0.403	0.410	7.92
26) Nitrobenzene	0.403	0.424	0.443	0.398	0.438	0.471	0.379	0.405	0.420	7.07
27) Quinoline	0.563	0.608	0.657	0.588	0.656	0.688	0.569	0.611	0.618	7.32
28) Isophorone	0.676	0.707	0.768	0.686	0.754	0.790	0.679	0.703	0.720	6.13
29) 2-Nitropheno	0.141	0.153	0.180	0.168	0.184	0.196	0.143	0.157	0.165	12.23
30) 2,4-Dimethyl	0.336	0.370	0.391	0.350	0.381	0.405	0.336	0.360	0.366	6.93
31) Benzoic acid		0.213	0.300	0.286	0.321	0.320		0.240	0.280	15.75
32) bis(2-Chloro	0.437	0.462	0.484	0.419	0.454	0.495	0.407	0.445	0.450	6.66
33) 2,4-Dichloro	0.255	0.282	0.306	0.271	0.295	0.316	0.255	0.280	0.283	7.85
34) 2,6-Dichloro	0.258	0.278	0.298	0.264	0.287	0.301	0.242	0.272	0.275	7.36
35) 1,3,5-Trichl	0.322	0.339	0.358	0.316	0.343	0.363	0.319	0.334	0.337	5.29
36) 1,2,4-Trichl	0.306	0.325	0.340	0.308	0.333	0.348	0.291	0.320	0.321	5.96
37) 1,2,3-Trichl	0.304	0.316	0.338	0.295	0.323	0.340	0.294	0.305	0.314	5.69
38) Naphthalene	0.938	0.980	1.030	0.883	0.955	1.022	0.902	0.955	0.958	5.43
39) 4-Chloroanil	0.378	0.403	0.434	0.379	0.414	0.444	0.376	0.396	0.403	6.48
40) 2,3-Dichloro	0.307	0.329	0.349	0.312	0.342	0.363	0.305	0.321	0.329	6.44
41) Hydroquinone	0.259	0.297	0.331	0.259	0.260	0.308	0.269	0.287	0.284	9.37
42) Hexachlorobu	0.185	0.204	0.210	0.188	0.207	0.220	0.179	0.193	0.198	7.14
43) 4-Chloro-3-m	0.278	0.302	0.331	0.299	0.328	0.342	0.269	0.300	0.306	8.51
44) 2-Methylnaph	0.554	0.569	0.607	0.534	0.575	0.625	0.522	0.559	0.568	6.07
45) 1-Methylnaph	0.517	0.543	0.582	0.513	0.551	0.590	0.506	0.543	0.543	5.70

Initial Calibration Summary

Job Number: JD91204 **Sample:** ECJ296-ICC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6490.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

46) I Acenaphthene-d10 ----------ISTD----------
47) Hexachlorocy 0.351 0.381 0.434 0.371 0.368 0.440 0.334 0.375 0.382 9.75
48) 1,2,4,5-tetr 0.559 0.599 0.619 0.543 0.570 0.624 0.546 0.563 0.578 5.50
49) 2,4,6-Trichl 0.304 0.348 0.385 0.346 0.364 0.406 0.305 0.347 0.351 10.05
50) 2,4,5-Trichl 0.334 0.386 0.428 0.381 0.402 0.442 0.338 0.379 0.386 9.88
51) 2-Fluorobiph 1.195 1.304 1.352 1.189 1.234 1.367 1.183 1.244 1.259 5.84
52) 2-Chloronaph 1.021 1.137 1.170 1.015 1.060 1.173 1.045 1.067 1.086 5.95
53) Biphenyl 1.315 1.421 1.471 1.283 1.324 1.473 1.349 1.359 1.374 5.26
54) 2-Nitroanili 0.324 0.362 0.408 0.364 0.385 0.420 0.322 0.354 0.367 9.65
55) Dimethylphth 1.148 1.262 1.360 1.186 1.232 1.384 1.191 1.237 1.250 6.66
56) Acenaphthyle 1.411 1.577 1.698 1.467 1.525 1.719 1.492 1.523 1.551 6.98
57) 2,6-Dinitrot 0.216 0.255 0.289 0.268 0.284 0.305 0.231 0.252 0.262 11.44
58) 3-Nitroanili 0.248 0.287 0.332 0.298 0.316 0.345 0.251 0.288 0.296 11.91
59) Acenaphthene 1.068 1.134 1.185 1.031 1.084 1.198 1.030 1.095 1.103 5.81
60) 2,4-Dinitrop 0.068 0.093 0.148 0.159 0.174 0.176 0.109 0.132 32.19
---- Quadratic regression ---- Coefficient = 0.9956
Response Ratio = -0.01185 + 0.15424 *A + 0.00410 *A^2

61) 4-Nitropheno 0.147 0.180 0.212 0.199 0.211 0.231 0.184 0.195 13.98
62) Dibenzofuran 1.485 1.572 1.641 1.432 1.485 1.665 1.454 1.514 1.531 5.63
63) 2,4-Dinitrot 0.294 0.350 0.413 0.375 0.388 0.426 0.298 0.356 0.363 13.40
64) 2,3,4,6-Tetr 0.248 0.291 0.331 0.310 0.326 0.345 0.227 0.295 0.297 13.85
65) Diethylphtha 1.182 1.290 1.392 1.221 1.284 1.412 1.173 1.242 1.275 7.02
66) Fluorene 1.138 1.238 1.300 1.138 1.185 1.318 1.160 1.199 1.209 5.79
67) 4-Chlorophen 0.542 0.591 0.628 0.553 0.573 0.637 0.542 0.557 0.578 6.53
68) 4-Nitroanili 0.256 0.293 0.339 0.306 0.321 0.348 0.245 0.297 0.301 12.06

69) I Phenanthrene-d10 ----------ISTD----------
70) 4,6-Dinitro- 0.074 0.106 0.110 0.116 0.121 0.081 0.101 19.24
71) n-Nitrosodip 0.514 0.566 0.600 0.525 0.530 0.605 0.492 0.536 0.546 7.43
72) 1,2-Diphenyl 0.717 0.784 0.838 0.732 0.746 0.852 0.694 0.761 0.766 7.34
73) pentachloron 0.032 0.034 0.037 0.034 0.036 0.039 0.032 0.033 0.035# 7.17
74) 2,4,6-Tribro 0.073 0.084 0.098 0.091 0.094 0.103 0.072 0.086 0.088 12.55
75) 4-Bromopheny 0.162 0.182 0.198 0.177 0.183 0.202 0.180 0.173 0.182 7.07
76) Hexachlorobe 0.194 0.212 0.217 0.194 0.204 0.221 0.194 0.191 0.203 5.84
77) Pentachlorop 0.087 0.108 0.137 0.134 0.138 0.149 0.115 0.124 17.41
78) Phenanthrene 0.925 1.008 1.036 0.910 0.932 1.040 0.942 0.940 0.967 5.45
79) Anthracene 0.900 0.985 1.056 0.920 0.954 1.070 0.908 0.950 0.968 6.70
80) Carbazole 0.835 0.913 0.988 0.861 0.879 1.001 0.857 0.881 0.902 6.80
81) Di-n-butylph 0.974 1.093 1.239 1.109 1.146 1.280 0.962 1.112 1.114 10.04
82) Fluoranthene 0.948 1.041 1.147 1.035 1.059 1.168 0.935 1.039 1.047 7.87
83) Octadecane 0.494 0.539 0.601 0.533 0.540 0.625 0.519 0.541 0.549 7.82

84) I Chrysene-d12 ----------ISTD----------
85) benzidine 0.682 0.695 0.790 0.699 0.641 0.839 0.674 0.717 9.82
86) Pyrene 1.282 1.405 1.483 1.327 1.309 1.519 1.223 1.335 1.360 7.43
87) Terphenyl-d1 0.937 0.993 1.086 0.958 0.971 1.103 0.913 0.945 0.988 7.04
88) Butylbenzylp 0.505 0.574 0.689 0.643 0.641 0.725 0.490 0.588 0.607 13.77
89) Benzo[a]anth 1.231 1.289 1.391 1.248 1.251 1.419 1.232 1.226 1.286 5.94
90) 3,3'-Dichlor 0.372 0.417 0.496 0.473 0.485 0.531 0.352 0.434 0.445 14.06
91) Chrysene 1.136 1.209 1.269 1.145 1.138 1.317 1.121 1.158 1.187 6.06
92) bis(2-Ethylh 0.727 0.838 0.997 0.907 0.910 1.059 0.855 0.899 12.08

93) I Perylene-d12 ----------ISTD----------
94) Di-n-octylph 1.081 1.330 1.659 1.555 1.515 1.750 1.383 1.468 15.29
95) Benzo[b]fluo 1.049 1.180 1.280 1.314 1.253 1.431 1.030 1.131 1.208 11.36
96) Benzo[k]fluo 1.052 1.145 1.244 1.000 0.975 1.154 1.016 1.113 1.087 8.49
97) Benzo[a]pyre 0.873 0.986 1.112 1.027 1.008 1.151 0.880 0.965 1.000 9.88
98) Indeno[1,2,3 1.047 1.192 1.355 1.237 1.206 1.395 1.080 1.163 1.209 9.98

Initial Calibration Summary

Job Number: JD91204 **Sample:** ECJ296-ICC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6490.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

```
 99) Dibenz(a,h)a 0.673 0.782 0.909 0.854 0.839 0.963 0.655 0.758 0.804  13.46
100) Dibenz[a,h]a 0.859 0.962 1.079 0.987 0.957 1.120 0.831 0.935 0.966  10.19
101) 7,12-Dimethy 0.399 0.469 0.530 0.511 0.489 0.569 0.407 0.472 0.481  12.03
102) Benzo[g,h,i] 0.828 0.919 1.013 0.930 0.900 1.055 1.000 0.873 0.940   8.20

103)     1,4-Dichlorobenzene-d ----------------ISTD---------------------
104) Benzaldehyde 1.109 1.175 1.058 1.169 1.113 1.188 1.124 1.224 1.145   4.65

105)     Phenanthrene-d10a     ----------------ISTD---------------------
106) Atrazine     0.089 0.087 0.084 0.098 0.096 0.099 0.080 0.095 0.091   7.47

107) I   Naphthalene-d8a       ----------------ISTD---------------------
108) Caprolactam  0.138 0.166 0.158 0.186 0.183 0.195 0.155 0.178 0.170  11.23

109)     Phenanthrene-d10b     ----------------ISTD---------------------
110) 1-chloroocta 0.337 0.381 0.363 0.395 0.384 0.414 0.335 0.409 0.377   8.07
111) o-terphenyl  0.495 0.510 0.466 0.514 0.507 0.522 0.468 0.546 0.503   5.35


 --------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           mCJ296.m          Thu May 09 12:07:52 2024
```

Initial Calibration Verification

Job Number: JD91204 **Sample:** ECJ296-ICV296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6506.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : D:\MassHunter\GCMS\1\data\ecj296\cj6506.D Vial: 18
Acq On : 08 May 2024 10:02 pm Operator: rocquans
Sample : icv296-50 Inst : GCMSCJ
Misc : op53120,ecj296,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : D:\MassHunter\GC...methods\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Thu May 09 11:29:25 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	123	0.00	4.66
2	t	1,4-Dioxane	0.543	0.546	-0.6	114	0.00	2.45
6	t	Indene	2.057	2.023	1.7	113	0.00	4.82
7	t	Cumene	2.649	2.665	-0.6	114	0.00	4.15
11	t	bis(2-Chloroethyl)ether	1.287	1.294	-0.5	113	0.00	4.49
13	t	Decane	1.566	1.550	1.0	112	0.00	4.56
14	t	1,3-Dichlorobenzene	1.387	1.406	-1.4	116	0.00	4.63
15	t	1,4-Dichlorobenzene	1.405	1.394	0.8	113	0.00	4.67
16	t	Benzyl alcohol	0.815	0.812	0.4	111	0.00	4.74
17	t	1,2-Dichlorobenzene	1.341	1.324	1.3	114	0.00	4.77
18	t	Acetophenone	1.839	1.781	3.2	112	0.00	4.92
20	t	2,2'-oxybis(1-Chloropropa	0.363	0.358	1.4	113	0.00	4.83
23	t	Hexachloroethane	0.531	0.538	-1.3	113	0.00	4.98
24	I	Naphthalene-d8	1.000	1.000	0.0	124	0.00	5.47
26	t	Nitrobenzene	0.420	0.403	4.0	106	0.00	5.02
27	t	Quinoline	0.618	0.599	3.1	108	-0.01	5.69
28	t	Isophorone	0.720	0.713	1.0	112	0.00	5.17
32	t	bis(2-Chloroethoxy)methan	0.450	0.447	0.7	112	0.00	5.30
35		1,3,5-Trichlorobenzene	0.337	0.340	-0.9	116	0.00	5.23
36	t	1,2,4-Trichlorobenzene	0.321	0.321	0.0	114	0.00	5.43
37		1,2,3-Trichlorobenzene	0.314	0.313	0.3	114	0.00	5.57
38	t	Naphthalene	0.958	0.950	0.8	115	0.00	5.48
40	t	2,3-Dichloroaniline	0.329	0.317	3.6	108	0.00	6.11
42	t	Hexachlorobutadiene	0.198	0.198	0.0	112	0.00	5.55
44	t	2-Methylnaphthalene	0.568	0.566	0.4	112	0.00	5.92
45	t	1-Methylnaphthalene	0.543	0.536	1.3	113	0.00	5.99
46	I	Acenaphthene-d10	1.000	1.000	0.0	122	0.00	6.65
47	t	Hexachlorocyclopentadiene	0.382	0.420	-9.9	117	0.00	6.03
48		1,2,4,5-tetrachlorobenzen	0.578	0.569	1.6	112	0.00	6.03

Initial Calibration Verification

Job Number: JD91204 **Sample:** ECJ296-ICV296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6506.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

52	t	2-Chloronaphthalene	1.086	1.077	0.8	112	0.00	6.25
53	t	Biphenyl	1.374	1.343	2.3	112	0.00	6.24
55	t	Dimethylphthalate	1.250	1.258	-0.6	111	0.00	6.45
56	t	Acenaphthylene	1.551	1.597	-3.0	114	0.00	6.55
57	t	2,6-Dinitrotoluene	0.262	0.269	-2.7	108	0.00	6.49
59	t	Acenaphthene	1.103	1.101	0.2	113	0.00	6.68

			AvgRF	CCRF	% Dev			
62	t	Dibenzofuran	1.531	1.514	1.1	111	0.00	6.81
63	t	2,4-Dinitrotoluene	0.363	0.365	-0.6	105	0.00	6.79
65	t	Diethylphthalate	1.275	1.273	0.2	110	0.00	6.97
66	t	Fluorene	1.209	1.209	0.0	112	0.00	7.08
67	t	4-Chlorophenyl-phenylethe	0.578	0.583	-0.9	112	0.00	7.08
69	I	Phenanthrene-d10	1.000	1.000	0.0	121	0.00	7.87
72	t	1,2-Diphenylhydrazine	0.766	0.778	-1.6	110	-0.01	7.20
73		pentachloronitrobenzene	0.035	0.034#	2.9	106	0.00	7.71
75	t	4-Bromophenyl-phenylether	0.182	0.190	-4.4	114	0.00	7.48
76	t	Hexachlorobenzene	0.203	0.201	1.0	110	0.00	7.53
78	t	Phenanthrene	0.967	0.962	0.5	112	0.00	7.89
79	t	Anthracene	0.968	0.979	-1.1	111	0.00	7.94
80	t	Carbazole	0.902	0.904	-0.2	109	0.00	8.07
81	t	Di-n-butylphthalate	1.114	1.170	-5.0	110	0.00	8.40
82	t	Fluoranthene	1.047	1.074	-2.6	111	-0.01	8.98
83	t	Octadecane	0.549	0.560	-2.0	108	0.00	7.77
84	I	Chrysene-d12	1.000	1.000	0.0	122	-0.01	10.36
86	t	Pyrene	1.360	1.347	1.0	108	0.00	9.19
88	t	Butylbenzylphthalate	0.607	0.645	-6.3	109	-0.01	9.83
89	t	Benzo[a]anthracene	1.286	1.255	2.4	108	-0.01	10.35
91	t	Chrysene	1.187	1.196	-0.8	111	-0.01	10.39
92	t	bis(2-Ethylhexyl)phthalat	0.899	0.930	-3.4	107	-0.01	10.40
93	I	Perylene-d12	1.000	1.000	0.0	119	-0.01	11.71
94	t	Di-n-octylphthalate	1.468	1.583	-7.8	107	-0.01	11.01
95	t	Benzo[b]fluoranthene	1.208	1.252	-3.6	104	0.00	11.35
96	t	Benzo[k]fluoranthene	1.087	1.136	-4.5	117	0.00	11.38
97	t	Benzo[a]pyrene	1.000	1.063	-6.3	110	-0.01	11.65
98	t	Indeno[1,2,3-cd]pyrene	1.209	1.298	-7.4	111	-0.01	12.90
99	t	Dibenz(a,h)acridine	0.804	0.882	-9.7	109	-0.01	12.61
100	t	Dibenz[a,h]anthracene	0.966	1.035	-7.1	110	-0.01	12.92
101	t	7,12-Dimethylbenz(a)anthr	0.481	0.470	2.3	98	0.00	11.34
102	t	Benzo[g,h,i]perylene	0.940	0.980	-4.3	110	-0.01	13.24

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: ECJ296-ICV296
Lab FileID: CJ6506.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cj6490.D mCJ296.m Thu May 09 11:35:01 2024

Initial Calibration Verification

Job Number: JD91204 **Sample:** ECJ296-ICV296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6507.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : D:\MassHunter\GCMS\1\data\ecj296\cj6507.D Vial: 19
Acq On : 08 May 2024 10:20 pm Operator: rocquans
Sample : icv296-50 Inst : GCMSCJ
Misc : op53120,ecj296,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : D:\MassHunter\GC...methods\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Thu May 09 11:29:25 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	136	0.00	4.66
9	t	Phenol	1.598	1.485	7.1	116	0.00	4.42
12	t	2-Chlorophenol	1.205	1.151	4.5	118	0.00	4.52
19	t	2-Methylphenol	1.109	1.031	7.0	118	0.00	4.81
21	t	3&4-Methylphenol	1.141	1.077	5.6	121	0.00	4.90
24	I	Naphthalene-d8	1.000	1.000	0.0	136	0.00	5.47
29	t	2-Nitrophenol	0.165	0.164	0.6	114	0.00	5.22
30	t	2,4-Dimethylphenol	0.366	0.354	3.3	119	0.00	5.24
31	t	Benzoic acid	0.280	0.263	6.1	112	0.00	5.31
33	t	2,4-Dichlorophenol	0.283	0.278	1.8	120	0.00	5.37
34	t	2,6-Dichlorophenol	0.275	0.268	2.5	122	0.00	5.51
41	t	Hydroquinone	0.284	0.336	-18.3	149	0.00	5.70
43	t	4-Chloro-3-methylphenol	0.306	0.297	2.9	118	0.00	5.80
46	I	Acenaphthene-d10	1.000	1.000	0.0	138	0.00	6.65
49	t	2,4,6-Trichlorophenol	0.351	0.351	0.0	119	0.00	6.10
50	t	2,4,5-Trichlorophenol	0.386	0.382	1.0	119	0.00	6.13
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	88.281	11.7	110	0.00	6.69
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.195	0.193	1.0	116	0.00	6.72
64		2,3,4,6-Tetrachlorophenol	0.297	0.303	-2.0	121	0.00	6.89
69	I	Phenanthrene-d10	1.000	1.000	0.0	139	0.00	7.87
70	t	4,6-Dinitro-2-methylpheno	0.101	0.094	6.9	108	-0.01	7.10
77	t	Pentachlorophenol	0.124	0.124	0.0	116	0.00	7.69

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: ECJ296-ICV296
Lab FileID: CJ6507.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cj6490.D mCJ296.m Thu May 09 11:39:49 2024

Initial Calibration Verification

Job Number: JD91204 **Sample:** ECJ296-ICV296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6508.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : D:\MassHunter\GCMS\1\data\ecj296\cj6508.D Vial: 20
Acq On : 08 May 2024 10:39 pm Operator: rocquans
Sample : icv296-50 Inst : GCMSCJ
Misc : op53120,ecj296,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : D:\MassHunter\GC...methods\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Thu May 09 11:29:25 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	145	0.00	4.66
3	t	Pyridine	1.406	1.384	1.6	126	0.00	2.75
4	t	N-Nitrosodimethylamine	0.750	0.798	-6.4	141	0.00	2.74
10		Aniline	1.966	1.914	2.6	130	0.00	4.45
22	t	n-Nitroso-di-n-propylamin	0.928	0.889	4.2	131	-0.01	4.91
24	I	Naphthalene-d8	1.000	1.000	0.0	147	0.00	5.47
39	t	4-Chloroaniline	0.403	0.394	2.2	131	0.00	5.51
46	I	Acenaphthene-d10	1.000	1.000	0.0	149	0.00	6.65
54	t	2-Nitroaniline	0.367	0.362	1.4	128	0.00	6.32
58	t	3-Nitroaniline	0.296	0.296	0.0	128	0.00	6.62
68	t	4-Nitroaniline	0.301	0.293	2.7	125	0.00	7.09
69	I	Phenanthrene-d10	1.000	1.000	0.0	150	0.00	7.87
71	t	n-Nitrosodiphenylamine	0.546	0.531	2.7	132	0.00	7.17
84	I	Chrysene-d12	1.000	1.000	0.0	147	-0.01	10.36
85		benzidine	0.717	0.878	-22.5	154	0.00	9.11
90	t	3,3'-Dichlorobenzidine	0.445	0.458	-2.9	127	0.00	10.33

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cj6490.D mCJ296.m Thu May 09 11:41:41 2024

Initial Calibration Verification

Job Number: JD91204 **Sample:** ECJ296-ICV296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ6509.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : D:\MassHunter\GCMS\1\data\ecj296\cj6509.D Vial: 21
Acq On : 08 May 2024 10:58 pm Operator: rocquans
Sample : icv296-50 Inst : GCMSCJ
Misc : op53120,ecj296,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : D:\MassHunter\GC...methods\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Thu May 09 12:05:48 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	100	0.00	4.66
104	Benzaldehyde	1.145	1.152	-0.6	97	0.00	4.38
105	Phenanthrene-d10a	1.000	1.000	0.0	96	0.00	7.86
106	Atrazine	0.091	0.095	-4.4	92	0.00	7.61
107 I	Naphthalene-d8a	1.000	1.000	0.0	97	0.00	5.47
108 T	Caprolactam	0.170	0.183	-7.6	91	0.00	5.72

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cj6498A.D mCJ296.m Thu May 09 12:07:31 2024

Continuing Calibration Summary

Job Number: JD91204 **Sample:** ECJ348-CC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ7985.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\nerirose\ECJ348\cj7985.D Vial: 2
Acq On : 01 Jul 2024 12:08 pm Operator: karimam
Sample : cc296-50 Inst : GCMSCJ
Misc : op53120,ecj348,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...methods\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Wed Jun 12 15:06:04 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	-0.01	4.37
2	t	1,4-Dioxane	0.543	0.620	-14.2	106	0.04	2.07
3	t	Pyridine	1.406	1.642	-16.8	103	0.03	2.42
4	t	N-Nitrosodimethylamine	0.750	0.880	-17.3	107	0.04	2.41
5	S	2-Fluorophenol	1.150	1.399	-21.7#	110	0.00	3.53
6	t	Indene	2.057	2.406	-17.0	110	-0.02	4.52
7	t	Cumene	2.649	3.077	-16.2	108	-0.01	3.84
8	S	Phenol-d5	1.483	1.743	-17.5	107	0.00	4.16
9	t	Phenol	1.598	2.099	-31.4#	120	0.00	4.17
10		Aniline	1.966	2.147	-9.2	100	0.00	4.16
11	t	bis(2-Chloroethyl)ether	1.287	1.488	-15.6	107	-0.01	4.20
12	t	2-Chlorophenol	1.205	1.453	-20.6#	109	-0.01	4.24
13	t	Decane	1.566	1.716	-9.6	102	-0.02	4.25
14	t	1,3-Dichlorobenzene	1.387	1.581	-14.0	106	-0.01	4.33
15	t	1,4-Dichlorobenzene	1.405	1.610	-14.6	107	-0.01	4.38
16	t	Benzyl alcohol	0.815	0.909	-11.5	102	0.00	4.47
17	t	1,2-Dichlorobenzene	1.341	1.516	-13.0	107	-0.02	4.47
18	t	Acetophenone	1.839	2.067	-12.4	107	-0.01	4.63
19	t	2-Methylphenol	1.109	1.355	-22.2#	114	0.00	4.54
20	t	2,2'-oxybis(1-Chloropropa	0.363	0.435	-19.8	112	-0.01	4.54
21	t	3&4-Methylphenol	1.141	1.336	-17.1	110	-0.01	4.64
22	t	n-Nitroso-di-n-propylamin	0.928	1.002	-8.0	102	-0.01	4.63
23	t	Hexachloroethane	0.531	0.577	-8.7	99	-0.02	4.68
24	I	Naphthalene-d8	1.000	1.000	0.0	105	-0.02	5.16
25	S	Nitrobenzene-d5	0.410	0.443	-8.0	101	-0.01	4.72
26	t	Nitrobenzene	0.420	0.453	-7.9	101	-0.01	4.73
27	t	Quinoline	0.618	0.737	-19.3	113	-0.01	5.40
28	t	Isophorone	0.720	0.805	-11.8	107	-0.01	4.88
29	t	2-Nitrophenol	0.165	0.208	-26.1#	112	-0.01	4.93
30	t	2,4-Dimethylphenol	0.366	0.398	-8.7	103	-0.01	4.96
31	t	Benzoic acid	0.280	0.295	-5.4	97	0.00	5.07
32	t	bis(2-Chloroethoxy)methan	0.450	0.507	-12.7	108	-0.02	5.01
33	t	2,4-Dichlorophenol	0.283	0.326	-15.2	109	-0.01	5.09
34	t	2,6-Dichlorophenol	0.275	0.309	-12.4	108	-0.02	5.22
35		1,3,5-Trichlorobenzene	0.337	0.366	-8.6	106	-0.02	4.93
36	t	1,2,4-Trichlorobenzene	0.321	0.351	-9.3	106	-0.02	5.13
37		1,2,3-Trichlorobenzene	0.314	0.342	-8.9	106	-0.02	5.27
38	t	Naphthalene	0.958	1.073	-12.0	111	-0.02	5.18
39	t	4-Chloroaniline	0.403	0.439	-8.9	104	-0.02	5.22
40	t	2,3-Dichloroaniline	0.329	0.364	-10.6	105	-0.02	5.79
41	t	Hydroquinone	0.284	0.210	26.1#	72	0.00	5.44

Continuing Calibration Summary

Job Number: JD91204 **Sample:** ECJ348-CC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ7985.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42	t	Hexachlorobutadiene	0.198	0.206	-4.0	99	-0.02	5.25
43	t	4-Chloro-3-methylphenol	0.306	0.347	-13.4	107	-0.01	5.53
44	t	2-Methylnaphthalene	0.568	0.651	-14.6	110	-0.02	5.61
45	t	1-Methylnaphthalene	0.543	0.623	-14.7	111	-0.02	5.67
46	I	Acenaphthene-d10	1.000	1.000	0.0	109	-0.03	6.31
47	t	Hexachlorocyclopentadiene	0.382	0.148	61.3#	37#	-0.02	5.70
48		1,2,4,5-tetrachlorobenzen	0.578	0.620	-7.3	108	-0.02	5.72
49	t	2,4,6-Trichlorophenol	0.351	0.367	-4.6	99	-0.02	5.80
50	t	2,4,5-Trichlorophenol	0.386	0.411	-6.5	101	-0.01	5.83
51	S	2-Fluorobiphenyl	1.259	1.376	-9.3	110	-0.02	5.84
52	t	2-Chloronaphthalene	1.086	1.169	-7.6	109	-0.02	5.93
53	t	Biphenyl	1.374	1.525	-11.0	113	-0.02	5.91
54	t	2-Nitroaniline	0.367	0.407	-10.9	106	-0.02	6.00
55	t	Dimethylphthalate	1.250	1.410	-12.8	111	-0.02	6.12
56	t	Acenaphthylene	1.551	1.711	-10.3	109	-0.02	6.21
57	t	2,6-Dinitrotoluene	0.262	0.319	-21.8#	114	-0.02	6.17
58	t	3-Nitroaniline	0.296	0.361	-22.0#	114	-0.01	6.30
59	t	Acenaphthene	1.103	1.221	-10.7	111	-0.02	6.33

			True	Calc.	% Drift			
60	t	2,4-Dinitrophenol	100.000	95.096	4.9	94	0.00	6.39

			AvgRF	CCRF	% Dev			
61	t	4-Nitrophenol	0.195	0.113	42.1#	54	0.00	6.45
62	t	Dibenzofuran	1.531	1.697	-10.8	111	-0.02	6.46
63	t	2,4-Dinitrotoluene	0.363	0.437	-20.4#	112	-0.01	6.47
64		2,3,4,6-Tetrachlorophenol	0.297	0.273	8.1	86	-0.02	6.56
65	t	Diethylphthalate	1.275	1.405	-10.2	109	-0.03	6.63
66	t	Fluorene	1.209	1.345	-11.2	111	-0.03	6.72
67	t	4-Chlorophenyl-phenylethe	0.578	0.655	-13.3	112	-0.03	6.71
68	t	4-Nitroaniline	0.301	0.347	-15.3	109	0.00	6.76
69	I	Phenanthrene-d10	1.000	1.000	0.0	110	-0.03	7.49
70	t	4,6-Dinitro-2-methylpheno	0.101	0.125	-23.8#	114	0.00	6.79
71	t	n-Nitrosodiphenylamine	0.546	0.623	-14.1	113	-0.02	6.81
72	t	1,2-Diphenylhydrazine	0.766	0.819	-6.9	106	-0.03	6.84
73		pentachloronitrobenzene	0.035	0.042#	-20.0	117	-0.02	7.34
74	S	2,4,6-Tribromophenol	0.088	0.099	-12.5	107	-0.03	6.91
75	t	4-Bromophenyl-phenylether	0.182	0.211	-15.9	115	-0.03	7.10
76	t	Hexachlorobenzene	0.203	0.232	-14.3	115	-0.02	7.16
77	t	Pentachlorophenol	0.124	0.078	37.1#	58	-0.02	7.33
78	t	Phenanthrene	0.967	1.070	-10.7	113	-0.03	7.51
79	t	Anthracene	0.968	1.102	-13.8	113	-0.03	7.55
80	t	Carbazole	0.902	1.023	-13.4	112	-0.02	7.70
81	t	Di-n-butylphthalate	1.114	1.300	-16.7	112	-0.03	8.01
82	t	Fluoranthene	1.047	1.217	-16.2	115	-0.03	8.59
83	t	Octadecane	0.549	0.620	-12.9	109	-0.04	7.39
84	I	Chrysene-d12	1.000	1.000	0.0	112	-0.02	9.97
85		benzidine	0.717	0.595	17.0	80	-0.03	8.72
86	t	Pyrene	1.360	1.536	-12.9	114	-0.03	8.79
87	S	Terphenyl-d14	0.988	1.151	-16.5	117	-0.03	8.95
88	t	Butylbenzylphthalate	0.607	0.742	-22.2#	115	-0.04	9.43
89	t	Benzo[a]anthracene	1.286	1.464	-13.8	116	-0.02	9.95
90	t	3,3'-Dichlorobenzidine	0.445	0.567	-27.4#	120	-0.02	9.94
91	t	Chrysene	1.187	1.312	-10.5	112	-0.03	9.99
92	t	bis(2-Ethylhexyl)phthalat	0.899	1.065	-18.5	113	-0.04	10.00
93	I	Perylene-d12	1.000	1.000	0.0	118	-0.02	11.27

Continuing Calibration Summary

Job Number: JD91204 **Sample:** ECJ348-CC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ7985.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

94	t	Di-n-octylphthalate	1.468	1.703	-16.0	115	-0.04	10.61
95	t	Benzo[b]fluoranthene	1.208	1.352	-11.9	112	-0.02	10.95
96	t	Benzo[k]fluoranthene	1.087	1.144	-5.2	117	-0.02	10.97
97	t	Benzo[a]pyrene	1.000	1.133	-13.3	116	-0.01	11.23
98	t	Indeno[1,2,3-cd]pyrene	1.209	1.396	-15.5	118	0.00	12.31
99	t	Dibenz(a,h)acridine	0.804	0.984	-22.4#	121	-0.02	12.06
100	t	Dibenz[a,h]anthracene	0.966	1.117	-15.6	118	-0.02	12.32
101	t	7,12-Dimethylbenz(a)anthr	0.481	0.540	-12.3	112	-0.03	10.93
102	t	Benzo[g,h,i]perylene	0.940	1.078	-14.7	121	-0.01	12.60

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cj7211.D mCJ296.m Mon Jul 01 21:46:56 2024

6.8.13
6

Continuing Calibration Summary

Job Number: JD91204 **Sample:** ECJ348-CC296
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CJ7986.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\nerirose\ECJ348\cj7986.D Vial: 3
Acq On : 01 Jul 2024 12:27 pm Operator: karimam
Sample : cc296-50 Inst : GCMSCJ
Misc : op53120,ecj348,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...methods\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Wed Jun 12 15:06:04 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	114	-0.02	4.36
104	Benzaldehyde	1.145	1.293	-12.9	124	-0.01	4.09
105	Phenanthrene-d10a	1.000	1.000	0.0	121	-0.03	7.49
106	Atrazine	0.091	0.113	-24.2#	138	-0.03	7.25
107 I	Naphthalene-d8a	1.000	1.000	0.0	119	-0.02	5.16
108 T	Caprolactam	0.170	0.205	-20.6#	125	0.00	5.44
109	Phenanthrene-d10b	1.000	1.000	0.0	121	-0.03	7.49
110 s	1-chlorooctadecane	0.377	0.434	-15.1	127	-0.03	8.49
111 s	o-terphenyl	0.503	0.577	-14.7	134	-0.03	7.82

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cj7211.D mCJ296.m Mon Jul 01 21:46:59 2024

Continuing Calibration Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: ECJ348-CC296
Lab FileID: CJ7987.D

Low Level Verification Report

Data File : X:\Dayton SVOA GCMS\nerirose\ECJ348\cj7987.D Vial: 4
Acq On : 01 Jul 2024 12:46 pm Operator: karimam
Sample : cc296-2 Inst : GCMSCJ
Misc : op53120,ecj348,30.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...methods\mCJ296.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Mon Jul 01 21:49:56 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
24	I	Naphthalene-d8	1.000	1.000	0.0	182	0.00	5.16
41	t	Hydroquinone	0.284	0.240	15.5	169	0.02	5.46
46	I	Acenaphthene-d10	1.000	1.000	0.0	186	0.00	6.31
47	t	Hexachlorocyclopentadiene	0.382	0.022#	94.2	12#	0.00	5.70
61	t	4-Nitrophenol	0.195	0.085	56.4	107	0.04	6.48
69	I	Phenanthrene-d10	1.000	1.000	0.0	189	0.00	7.49
77	t	Pentachlorophenol	0.124	0.037#	70.2	81	0.00	7.34

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cj6500A.D mCJ296.m Mon Jul 01 21:57:50 2024

Initial Calibration Summary

Job Number: JD91204 **Sample:** EF9803-ICC9803
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** F220644.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Response Factor Report GCMSF

Method : C:\MSDCHEM\1\METHODS\MF9803.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 25 17:38:07 2024
Response via : Initial Calibration

Calibration Files
2 =F220646.D 5 =F220647.D 25 =F220649.D 80 =F220650.D
100 =F220651.D 50 =F220644.D 10 =F220648.D 1 =F220645b.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD									
2) 1,4-Dioxane	0.625	0.540	0.543	0.560	0.571	0.621	0.546	0.615	0.578	6.37
3) Pyridine	1.209	1.376	1.466	1.480	1.519	1.675	1.301	1.566	1.449	10.31
4) N-Nitrosodim	0.632	0.632	0.722	0.739	0.759	0.865	0.679		0.718	11.37
5) 2-Fluorophen	0.959	1.050	1.193	1.247	1.291	1.380	1.074		1.171	12.74
6) Indene	1.971	1.985	2.218	2.333	2.438	2.438	1.957	2.008	2.168	9.83
7) Cumene	2.294	2.474	2.622	2.747	2.866	2.888	2.382	2.391	2.583	8.95
8) Phenol-d5	1.163	1.268	1.402	1.505	1.603	1.590	1.279		1.401	12.23
9) Phenol	1.426	1.590	1.691	1.763	1.854	1.933	1.564	1.391	1.651	11.77
10) Aniline	1.639	1.783	1.923	1.863	1.914	1.989	1.754	1.672	1.817	6.91
11) bis(2-Chloro	1.020	1.084	1.184	1.221	1.290	1.312	1.056	1.088	1.157	9.55
12) 2-Chlorophen	1.110	1.174	1.262	1.359	1.434	1.402	1.119	1.133	1.249	10.71
13) Decane	1.460	1.547	1.636	1.672	1.727	1.784	1.452	1.505	1.598	7.83
14) 1,3-Dichloro	1.205	1.358	1.458	1.545	1.638	1.623	1.282	1.233	1.418	12.21
15) 1,4-Dichloro	1.275	1.459	1.490	1.607	1.692	1.672	1.376	1.299	1.484	10.94
16) Benzyl alcoh	0.673	0.769	0.831	0.891	0.942	0.939	0.759		0.829	12.22
17) 1,2-Dichloro	1.231	1.352	1.434	1.524	1.632	1.559	1.315	1.308	1.419	9.93
18) Acetophenone	1.652	1.761	1.974	2.062	2.158	2.128	1.747	1.426	1.863	13.88
19) 2-Methylphen	0.988	1.122	1.217	1.270	1.318	1.318	1.109	1.036	1.172	10.84
20) 2,2'-oxybis(	0.309	0.342	0.334	0.369	0.392	0.379	0.333	0.328	0.348	8.14
21) 3&4-Methylph	1.046	1.164	1.243	1.343	1.398	1.380	1.120	1.027	1.215	12.19
22) n-Nitroso-di	0.797	0.878	0.947	0.988	1.018	1.012	0.835	0.866	0.918	9.24
23) Hexachloroet	0.488	0.505	0.537	0.584	0.617	0.601	0.498	0.468	0.537	10.53
24) I Naphthalene-d8	ISTD									
25) Nitrobenzene	0.300	0.322	0.346	0.359	0.379	0.382	0.315	0.326	0.341	8.83
26) Nitrobenzene	0.340	0.352	0.364	0.373	0.389	0.398	0.331	0.306	0.357	8.63
27) Quinoline	0.519	0.564	0.603	0.633	0.678	0.677	0.551	0.531	0.595	10.61
28) Isophorone	0.501	0.571	0.605	0.629	0.660	0.690	0.559	0.536	0.594	10.79
29) 2-Nitropheno	0.140	0.151	0.173	0.193	0.207	0.201	0.151		0.174	15.53
30) 2,4-Dimethyl	0.272	0.304	0.332	0.350	0.373	0.374	0.298	0.267	0.321	13.20
31) Benzoic acid		0.096	0.167	0.211	0.239	0.216	0.121		0.175	32.59
----- Quadratic regression -----								Coefficient =		0.9971
Response Ratio = -0.01274 + 0.18064 *A + 0.02383 *A^2										
32) bis(2-Chloro	0.323	0.344	0.377	0.392	0.420	0.414	0.332	0.305	0.363	11.88
33) 2,4-Dichloro	0.221	0.242	0.275	0.295	0.313	0.318	0.246		0.273	13.81
34) 2,6-Dichloro	0.230	0.259	0.277	0.303	0.323	0.305	0.245	0.214	0.269	14.47
35) 1,3,5-Trichl	0.259	0.292	0.318	0.348	0.369	0.357	0.300	0.262	0.313	13.38
36) 1,2,4-Trichl	0.255	0.284	0.299	0.327	0.346	0.337	0.270	0.239	0.294	13.38
37) 1,2,3-Trichl	0.251	0.267	0.302	0.324	0.348	0.327	0.269	0.251	0.292	12.98
38) Naphthalene	0.828	0.889	0.934	0.999	1.061	1.055	0.844	0.806	0.927	10.98
39) 4-Chloroanil	0.326	0.371	0.403	0.419	0.441	0.426	0.364	0.331	0.385	11.32
40) 2,3-Dichloro	0.248	0.295	0.310	0.350	0.366	0.344	0.282		0.313	13.47
41) Hydroquinone		0.258	0.280	0.203	0.208	0.228	0.246		0.237	12.61
42) Hexachlorobu	0.155	0.168	0.182	0.197	0.209	0.199	0.162	0.151	0.178	12.45

Initial Calibration Summary

Job Number: JD91204 **Sample:** EF9803-ICC9803
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** F220644.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

43) 4-Chloro-3-m 0.238 0.243 0.275 0.284 0.302 0.296 0.237 0.199 0.259 13.70
44) 2-Methylnaph 0.509 0.532 0.558 0.617 0.668 0.633 0.511 0.455 0.560 12.97
45) 1-Methylnaph 0.502 0.544 0.584 0.638 0.687 0.644 0.555 0.527 0.585 11.08

46) I Acenaphthene-d10 ----------ISTD----------
47) Hexachlorocy 0.142 0.185 0.303 0.300 0.313 0.310 0.226 0.254 27.50
----- Quadratic regression ----- Coefficient = 0.9982
Response Ratio = -0.02131 + 0.30317 *A + 0.00239 *A^2

48) 1,2,4,5-tetr 0.450 0.513 0.568 0.612 0.638 0.618 0.497 0.557 12.83
49) 2,4,6-Trichl 0.277 0.309 0.358 0.393 0.409 0.399 0.313 0.351 14.79
50) 2,4,5-Trichl 0.293 0.337 0.392 0.420 0.438 0.432 0.348 0.380 14.52
51) 2-Fluorobiph 1.087 1.201 1.336 1.392 1.442 1.421 1.203 1.123 1.276 10.92
52) 2-Chloronaph 0.972 1.081 1.157 1.197 1.245 1.236 1.063 0.946 1.112 10.36
53) Biphenyl 1.145 1.264 1.399 1.474 1.518 1.513 1.266 1.109 1.336 12.18
54) 2-Nitroanili 0.281 0.309 0.334 0.337 0.345 0.365 0.300 0.264 0.317 10.84
55) Dimethylphth 1.078 1.164 1.271 1.311 1.344 1.387 1.197 1.044 1.225 10.19
56) Acenaphthyle 1.348 1.487 1.577 1.615 1.697 1.709 1.447 1.335 1.527 9.56
57) 2,6-Dinitrot 0.208 0.242 0.261 0.277 0.288 0.283 0.244 0.226 0.254 11.26
58) 3-Nitroanili 0.238 0.273 0.302 0.316 0.324 0.339 0.279 0.296 11.75
59) Acenaphthene 0.992 1.090 1.153 1.192 1.255 1.236 1.053 0.954 1.116 10.01
60) 2,4-Dinitrop 0.044 0.064 0.125 0.153 0.169 0.155 0.079 0.113 44.26
----- Quadratic regression ----- Coefficient = 0.9963
Response Ratio = -0.01120 + 0.12196 *A + 0.00973 *A^2

61) 4-Nitropheno 0.128 0.156 0.180 0.192 0.186 0.125 0.161 18.30
62) Dibenzofuran 1.319 1.460 1.579 1.651 1.700 1.711 1.481 1.406 1.538 9.37
63) 2,4-Dinitrot 0.289 0.341 0.381 0.412 0.431 0.422 0.340 0.263 0.360 17.36
64) 2,3,4,6-Tetr 0.194 0.259 0.291 0.310 0.294 0.215 0.260 18.00
65) Diethylphtha 1.110 1.168 1.309 1.317 1.377 1.379 1.169 1.123 1.244 9.07
66) Fluorene 1.052 1.137 1.251 1.344 1.379 1.353 1.121 1.054 1.211 11.29
67) 4-Chlorophen 0.498 0.545 0.595 0.635 0.641 0.654 0.536 0.486 0.574 11.55
68) 4-Nitroanili 0.227 0.253 0.307 0.310 0.319 0.329 0.254 0.286 14.03

69) I Phenanthrene-d10 ----------ISTD----------
70) 4,6-Dinitro- 0.071 0.113 0.125 0.129 0.127 0.085 0.108 22.60
----- Quadratic regression ----- Coefficient = 0.9991
Response Ratio = -0.00813 + 0.12689 *A + 0.00192 *A^2

71) n-Nitrosodip 0.501 0.556 0.611 0.616 0.635 0.657 0.538 0.502 0.577 10.53
72) 1,2-Diphenyl 0.653 0.722 0.766 0.754 0.777 0.826 0.696 0.623 0.727 9.26
73) 2,4,6-Tribro 0.066 0.074 0.084 0.094 0.097 0.094 0.073 0.083 14.75
74) 4-Bromopheny 0.169 0.184 0.201 0.207 0.211 0.217 0.174 0.166 0.191 10.66
75) Hexachlorobe 0.177 0.193 0.209 0.216 0.223 0.228 0.189 0.190 0.203 9.14
76) Pentachlorop 0.024 0.037 0.075 0.109 0.117 0.103 0.055 0.074 49.76
----- Quadratic regression ----- Coefficient = 0.9973
Response Ratio = -0.00720 + 0.07476 *A + 0.00904 *A^2

77) Phenanthrene 0.891 0.956 1.060 1.051 1.087 1.120 0.934 0.866 0.996 9.62
78) Anthracene 0.861 0.946 1.068 1.082 1.113 1.128 0.931 0.815 0.993 12.10
79) Carbazole 0.821 0.894 0.994 0.994 1.046 1.038 0.873 0.819 0.935 10.04
80) Di-n-butylph 1.049 1.107 1.241 1.277 1.320 1.333 1.078 1.080 1.186 10.02
81) Fluoranthene 0.894 0.970 1.078 1.111 1.173 1.164 0.951 0.890 1.029 11.34
82) Octadecane 0.431 0.467 0.510 0.513 0.524 0.547 0.446 0.419 0.482 9.87

83) I Chrysene-d12 ----------ISTD----------
84) Benzidine 0.396 0.601 0.753 0.458 0.416 0.560 0.651 0.548 24.01
----- Quadratic regression ----- Coefficient = 0.9949
Response Ratio = -0.02067 + 0.80699 *A + -0.15937 *A^2

Initial Calibration Summary

Job Number: JD91204 **Sample:** EF9803-ICC9803
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** F220644.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

85)	Pyrene	1.172	1.288	1.446	1.359	1.437	1.531	1.264	1.161	1.332	10.06
86)	Terphenyl-d1	0.832	0.971	1.066	1.038	1.087	1.152	0.935	0.872	0.994	11.14
87)	Butylbenzylp	0.534	0.558	0.644	0.617	0.644	0.692	0.557	0.530	0.597	10.12
88)	Benzo[a]anth	1.118	1.163	1.295	1.250	1.300	1.355	1.133	1.226	1.230	6.97
89)	3,3'-Dichlor	0.374	0.405	0.489	0.489	0.500	0.528	0.440	0.354	0.447	14.35
90)	Chrysene	1.059	1.182	1.306	1.284	1.321	1.386	1.156	1.032	1.216	10.58
91)	bis(2-Ethylh	0.755	0.816	0.963	0.941	0.971	1.028	0.836	0.777	0.886	11.51
92)	I Perylene-d12	----------	ISTD	----------							
93)	Di-n-octylph	1.143	1.302	1.518	1.544	1.645	1.643	1.272	1.198	1.408	14.36
94)	Benzo[b]fluo	0.929	1.045	1.187	1.245	1.323	1.295	1.019	1.042	1.136	12.83
95)	Benzo[k]fluo	0.997	1.058	1.202	1.232	1.291	1.278	1.032	0.970	1.133	11.63
96)	Benzo[a]pyre	0.834	0.929	1.041	1.051	1.111	1.094	0.899	0.871	0.979	11.01
97)	Indeno[1,2,3	0.923	1.050	1.132	1.109	1.189	1.170	1.021	0.895	1.061	10.32
98)	Dibenz(a,h)a	0.764	0.870	0.938	0.909	0.957	0.978	0.828	0.747	0.874	10.01
99)	Dibenz[a,h]a	0.896	1.018	1.119	1.105	1.210	1.164	0.992	0.874	1.047	11.72
100)	7,12-Dimethy		0.399	0.509	0.510	0.532	0.547	0.384		0.480	14.60
101)	Benzo[g,h,i]	0.906	1.015	1.067	1.046	1.113	1.121	0.970	0.855	1.011	9.46
157)	I 1,4-Dichlorobenzene-d	----------	ISTD	----------							
158)	Benzaldehyde	0.979	1.035	0.974	1.166	1.159	1.226	1.168	0.908	1.077	10.87
159)	I Phenanthrene-d10b	----------	ISTD	----------							
160)	Atrazine	0.149	0.176	0.171	0.210	0.211	0.226	0.199		0.192	14.14
161)	I Naphthalene-d8b	----------	ISTD	----------							
162)	Caprolactam	0.133	0.143	0.130	0.153	0.151	0.166	0.148	0.112	0.142	11.86

(#) = Out of Range ### Number of calibration levels exceeded format ###

MF9803.M Tue Jun 25 17:52:50 2024 RT1

Initial Calibration Verification

Job Number: JD91204 **Sample:** EF9803-ICV9803
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** F220660.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF9803\F220660.D Vial: 18
Acq On : 25 Jun 2024 1:02 am Operator: anthonyo
Sample : icv9803-50 Inst : GCMSF
Misc : op54678,ef9803,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\MF9803.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 25 11:05:19 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00	4.64
2	t	1,4-Dioxane	0.578	0.496	14.2	85	0.00	2.42
6	t	Indene	2.168	2.092	3.5	91	0.00	4.82
7	t	Cumene	2.583	2.465	4.6	90	0.00	4.07
11	t	bis(2-Chloroethyl)ether	1.157	1.053	9.0	85	0.00	4.45
13	t	Decane	1.598	1.486	7.0	88	0.00	4.52
14	t	1,3-Dichlorobenzene	1.418	1.396	1.6	91	0.00	4.60
15	t	1,4-Dichlorobenzene	1.484	1.428	3.8	90	0.00	4.65
16	t	Benzyl alcohol	0.829	0.767	7.5	86	0.00	4.74
17	t	1,2-Dichlorobenzene	1.419	1.347	5.1	92	0.00	4.76
18	t	Acetophenone	1.863	1.759	5.6	88	0.00	4.92
20	t	2,2'-oxybis(1-Chloropropa	0.348	0.320	8.0	89	0.00	4.83
23	t	Hexachloroethane	0.537	0.509	5.2	90	0.00	5.00
24	I	Naphthalene-d8	1.000	1.000	0.0	107	0.00	5.54
26	t	Nitrobenzene	0.357	0.324	9.2	87	0.00	5.05
27	t	Quinoline	0.595	0.582	2.2	92	-0.01	5.80
28	t	Isophorone	0.594	0.579	2.5	90	0.00	5.21

		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.363	0.362	0.3	93	0.00	5.36
35		1,3,5-Trichlorobenzene	0.313	0.311	0.6	93	0.00	5.28
36	t	1,2,4-Trichlorobenzene	0.294	0.287	2.4	91	0.00	5.50
37		1,2,3-Trichlorobenzene	0.292	0.292	0.0	95	0.00	5.66
38	t	Naphthalene	0.927	0.932	-0.5	94	0.00	5.55
40	t	2,3-Dichloroaniline	0.313	0.298	4.8	93	0.00	6.27
42	t	Hexachlorobutadiene	0.178	0.175	1.7	94	0.00	5.64
44	t	2-Methylnaphthalene	0.560	0.553	1.3	93	0.00	6.05
45	t	1-Methylnaphthalene	0.585	0.582	0.5	96	0.00	6.13
46	I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00	6.94

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EF9803-ICV9803
Lab FileID: F220660.D

			True	Calc.	% Drift			
47	t	Hexachlorocyclopentadiene	100.000	110.384	-10.4	114	0.00	6.17

			AvgRF	CCRF	% Dev			
48	t	1,2,4,5-tetrachlorobenzen	0.557	0.582	-4.5	100	0.00	6.18
52	t	2-Chloronaphthalene	1.112	1.120	-0.7	96	0.00	6.44
53	t	Biphenyl	1.336	1.373	-2.8	96	0.00	6.42
55	t	Dimethylphthalate	1.225	1.237	-1.0	95	0.00	6.68
56	t	Acenaphthylene	1.527	1.601	-4.8	99	0.00	6.81
57	t	2,6-Dinitrotoluene	0.254	0.256	-0.8	96	0.00	6.74
59	t	Acenaphthene	1.116	1.133	-1.5	97	0.00	6.97
62	t	Dibenzofuran	1.538	1.543	-0.3	96	0.00	7.15
63	t	2,4-Dinitrotoluene	0.360	0.367	-1.9	92	0.00	7.14
65	t	Diethylphthalate	1.244	1.248	-0.3	96	-0.01	7.40
66	t	Fluorene	1.211	1.257	-3.8	99	0.00	7.53
67	t	4-Chlorophenyl-phenylethe	0.574	0.599	-4.4	97	0.00	7.53
69	I	Phenanthrene-d10	1.000	1.000	0.0	111	-0.01	8.80
72	t	1,2-Diphenylhydrazine	0.727	0.721	0.8	97	-0.01	7.72
74	t	4-Bromophenyl-phenylether	0.191	0.195	-2.1	99	-0.01	8.15
75	t	Hexachlorobenzene	0.203	0.200	1.5	97	-0.01	8.23

			AvgRF	CCRF	% Dev			
77	t	Phenanthrene	0.996	0.994	0.2	98	-0.01	8.84
78	t	Anthracene	0.993	1.022	-2.9	100	-0.01	8.92
79	t	Carbazole	0.935	0.938	-0.3	100	-0.02	9.20
80	t	Di-n-butylphthalate	1.186	1.195	-0.8	99	-0.02	9.89
81	t	Fluoranthene	1.029	1.058	-2.8	101	-0.01	10.96
82	t	Octadecane	0.482	0.482	0.0	97	-0.01	8.70
83	I	Chrysene-d12	1.000	1.000	0.0	115	-0.02	14.05

			AvgRF	CCRF	% Dev			
85	t	Pyrene	1.332	1.314	1.4	99	-0.02	11.40
87	t	Butylbenzylphthalate	0.597	0.584	2.2	97	-0.02	13.01
88	t	Benzo[a]anthracene	1.230	1.171	4.8	100	-0.02	14.02
90	t	Chrysene	1.216	1.219	-0.2	101	-0.02	14.11
91	t	bis(2-Ethylhexyl)phthalat	0.886	0.912	-2.9	102	-0.02	14.43
92	I	Perylene-d12	1.000	1.000	0.0	112	-0.02	17.09
93	t	Di-n-octylphthalate	1.408	1.501	-6.6	102	-0.02	15.88
94	t	Benzo[b]fluoranthene	1.136	1.197	-5.4	104	-0.02	16.35
95	t	Benzo[k]fluoranthene	1.133	1.193	-5.3	105	-0.02	16.41
96	t	Benzo[a]pyrene	0.979	1.015	-3.7	104	-0.02	16.98
97	t	Indeno[1,2,3-cd]pyrene	1.061	1.082	-2.0	104	-0.02	19.05

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EF9803-ICV9803
Lab FileID: F220660.D

98	t	Dibenz(a,h)acridine	0.874	0.893	-2.2	102	-0.02	18.69
99	t	Dibenz[a,h]anthracene	1.047	1.078	-3.0	104	-0.02	19.11
100	t	7,12-Dimethylbenz(a)anthr	0.480	0.417	13.1	86	-0.02	16.36
101	t	Benzo[g,h,i]perylene	1.011	1.041	-3.0	104	-0.02	19.48

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F220644.D MF9803.M Tue Jun 25 11:11:23 2024 RT1

Initial Calibration Verification

Job Number: JD91204 **Sample:** EF9803-ICV9803
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** F220661.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF9803\F220661.D Vial: 19
Acq On : 25 Jun 2024 1:28 am Operator: anthonyo
Sample : icv9803-50 Inst : GCMSF
Misc : op54678,ef9803,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\MF9803.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 25 11:43:49 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	116	0.00	4.64
9	t	Phenol	1.651	1.390	15.8	83	0.00	4.41
12	t	2-Chlorophenol	1.249	1.186	5.0	98	0.00	4.50
19	t	2-Methylphenol	1.172	1.039	11.3	91	-0.01	4.83
21	t	3&4-Methylphenol	1.215	1.139	6.3	96	0.00	4.94
24	I	Naphthalene-d8	1.000	1.000	0.0	122	0.00	5.54
29	t	2-Nitrophenol	0.174	0.153	12.1	93	0.00	5.27
30	t	2,4-Dimethylphenol	0.321	0.301	6.2	98	0.00	5.31
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	50.000	43.155	13.7	95	0.00	5.42
		----------	AvgRF	CCRF	% Dev	----------		
33	t	2,4-Dichlorophenol	0.273	0.247	9.5	95	0.00	5.45
34		2,6-Dichlorophenol	0.269	0.247	8.2	99	0.00	5.60
41	t	Hydroquinone	0.237	0.291	-22.8	156	-0.02	5.86
43	t	4-Chloro-3-methylphenol	0.259	0.242	6.6	100	-0.01	5.95
		----------	AvgRF	CCRF	% Dev	----------		
49	t	2,4,6-Trichlorophenol	0.351	0.343	2.3	100	0.00	6.28
50	t	2,4,5-Trichlorophenol	0.380	0.374	1.6	101	-0.01	6.32
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	92.534	7.5	97	0.00	7.01
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.161	0.148	8.1	93	-0.02	7.12
64		2,3,4,6-Tetrachlorophenol	0.260	0.262	-0.8	104	-0.01	7.29

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EF9803-ICV9803
Lab FileID: F220661.D

69	I	Phenanthrene-d10	1.000	1.000	0.0	121	-0.01	8.80
			True	Calc.	% Drift			
70	t	4,6-Dinitro-2-methylpheno	50.000	40.280	19.4	92	-0.02	7.60
			True	Calc.	% Drift			
76	t	Pentachlorophenol	100.000	94.891	5.1	104	-0.02	8.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F220644.D MF9803.M Tue Jun 25 11:49:25 2024 RT1

Initial Calibration Verification

Job Number: JD91204 **Sample:** EF9803-ICV9803
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** F220662.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF9803\F220662.D Vial: 20
Acq On : 25 Jun 2024 1:54 am Operator: anthonyo
Sample : icv9803-50 Inst : GCMSF
Misc : op54678,ef9803,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\MF9803.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 25 17:38:07 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00	4.64
3	t	Pyridine	1.449	1.366	5.7	88	0.00	2.69
4	t	N-Nitrosodimethylamine	0.718	0.724	-0.8	90	0.00	2.66
10	t	Aniline	1.817	1.785	1.8	96	0.00	4.41
22		n-Nitroso-di-n-propylamin	0.918	0.854	7.0	91	-0.01	4.92
24	I	Naphthalene-d8	1.000	1.000	0.0	110	0.00	5.54
39	t	4-Chloroaniline	0.385	0.371	3.6	96	0.00	5.60
46	I	Acenaphthene-d10	1.000	1.000	0.0	112	0.00	6.94
54	t	2-Nitroaniline	0.317	0.304	4.1	93	-0.01	6.53
58	t	3-Nitroaniline	0.296	0.286	3.4	94	-0.01	6.91
68	t	4-Nitroaniline	0.286	0.272	4.9	93	-0.02	7.56
69	I	Phenanthrene-d10	1.000	1.000	0.0	114	-0.02	8.79

		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.577	0.563	2.4	98	-0.01	7.67
83	I	Chrysene-d12	1.000	1.000	0.0	108	-0.02	14.04
89	t	3,3'-Dichlorobenzidine	0.447	0.479	-7.2	98	-0.02	14.08

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F220652A.D MF9803.M Tue Jun 25 17:52:25 2024 RT1

Initial Calibration Verification

Job Number: JD91204 **Sample:** EF9803-ICV9803
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** F220663.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF9803\F220663.D Vial: 21
Acq On : 25 Jun 2024 2:20 am Operator: anthonyo
Sample : icv9803-50 Inst : GCMSF
Misc : op54678,ef9803,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\MF9803.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 25 12:16:26 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
157 I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	112	0.00	4.64
158	Benzaldehyde	1.077	1.162	-7.9	107	0.00	4.33
159 I	Phenanthrene-d10b	1.000	1.000	0.0	113	0.00	8.79
160	Atrazine	0.192	0.202	-5.2	101	0.00	8.42
161 I	Naphthalene-d8b	1.000	1.000	0.0	111	0.00	5.54
162	Caprolactam	0.142	0.154	-8.5	103	0.00	5.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F220652A.D MF9803.M Tue Jun 25 12:18:38 2024 RT1

Continuing Calibration Summary

Job Number: JD91204 **Sample:** EF9807-CC9803
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** F220732.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...eelo\ef9807\F220732.D Vial: 1
Acq On : 29 Jun 2024 11:58 am Operator: kristis
Sample : cc9803-50 Inst : GCMSF
Misc : op54678,ef9807,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...Methods\MF9803.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 25 12:16:26 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	156	0.00	4.64
2	t	1,4-Dioxane	0.578	0.621	-7.4	156	-0.02	2.40
3	t	Pyridine	1.449	1.639	-13.1	152	-0.02	2.68
4	t	N-Nitrosodimethylamine	0.718	0.767	-6.8	138	-0.02	2.65
5	S	2-Fluorophenol	1.171	1.348	-15.1	152	0.00	3.72
6	t	Indene	2.168	2.390	-10.2	153	0.00	4.82
7	t	Cumene	2.583	2.889	-11.8	156	0.00	4.06
8	S	Phenol-d5	1.401	1.571	-12.1	154	-0.01	4.40
9	t	Phenol	1.651	1.824	-10.5	147	-0.01	4.41
10	t	Aniline	1.817	1.935	-6.5	151	0.00	4.41
11	t	bis(2-Chloroethyl)ether	1.157	1.291	-11.6	153	0.00	4.45
12	t	2-Chlorophenol	1.249	1.422	-13.9	158	0.00	4.50
13	t	Decane	1.598	1.696	-6.1	148	0.00	4.52
14	t	1,3-Dichlorobenzene	1.418	1.627	-14.7	156	0.00	4.59
15	t	1,4-Dichlorobenzene	1.484	1.664	-12.1	155	0.00	4.65
16	t	Benzyl alcohol	0.829	0.853	-2.9	141	0.00	4.74
17	t	1,2-Dichlorobenzene	1.419	1.572	-10.8	157	0.00	4.75
18	t	Acetophenone	1.863	2.061	-10.6	151	0.00	4.92
19	t	2-Methylphenol	1.172	1.339	-14.2	158	-0.01	4.83
20	t	2,2'-oxybis(1-Chloropropa	0.348	0.376	-8.0	155	0.00	4.83
21	t	3&4-Methylphenol	1.215	1.346	-10.8	152	0.00	4.94
22		n-Nitroso-di-n-propylamin	0.918	0.954	-3.9	147	0.00	4.93
23	t	Hexachloroethane	0.537	0.586	-9.1	152	0.00	4.99
24	I	Naphthalene-d8	1.000	1.000	0.0	156	0.00	5.54
25	S	Nitrobenzene-d5	0.341	0.368	-7.9	151	0.00	5.03
26	t	Nitrobenzene	0.357	0.388	-8.7	152	0.00	5.05
27	t	Quinoline	0.595	0.667	-12.1	154	0.00	5.81
28	t	Isophorone	0.594	0.658	-10.8	149	0.00	5.22
29	t	2-Nitrophenol	0.174	0.197	-13.2	154	0.00	5.27
30	t	2,4-Dimethylphenol	0.321	0.358	-11.5	149	0.00	5.31
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	50.000	53.726	-7.5	158	0.00	5.42
		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.363	0.402	-10.7	152	0.00	5.37
33	t	2,4-Dichlorophenol	0.273	0.308	-12.8	151	0.00	5.45
34		2,6-Dichlorophenol	0.269	0.309	-14.9	158	0.00	5.61
35		1,3,5-Trichlorobenzene	0.313	0.354	-13.1	155	0.00	5.28
36	t	1,2,4-Trichlorobenzene	0.294	0.331	-12.6	154	0.00	5.50
37		1,2,3-Trichlorobenzene	0.292	0.324	-11.0	155	0.00	5.66

Continuing Calibration Summary

Job Number: JD91204 **Sample:** EF9807-CC9803
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** F220732.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

38	t	Naphthalene	0.927	1.028	-10.9	152	0.00	5.56
39	t	4-Chloroaniline	0.385	0.420	-9.1	154	0.00	5.60
40	t	2,3-Dichloroaniline	0.313	0.341	-8.9	155	0.00	6.28
41	t	Hydroquinone	0.237	0.176	25.7#	120	0.00	5.88
42	t	Hexachlorobutadiene	0.178	0.191	-7.3	150	0.00	5.64
43	t	4-Chloro-3-methylphenol	0.259	0.293	-13.1	155	0.00	5.96
44	t	2-Methylnaphthalene	0.560	0.613	-9.5	151	0.00	6.05
45	t	1-Methylnaphthalene	0.585	0.638	-9.1	155	0.00	6.13
46	I	Acenaphthene-d10	1.000	1.000	0.0	153	0.00	6.94
			True	Calc.	% Drift			
47	t	Hexachlorocyclopentadiene	100.000	102.597	-2.6	153	0.00	6.17
			AvgRF	CCRF	% Dev			
48	t	1,2,4,5-tetrachlorobenzen	0.557	0.617	-10.8	153	0.00	6.18
49	t	2,4,6-Trichlorophenol	0.351	0.398	-13.4	153	0.00	6.28
50	t	2,4,5-Trichlorophenol	0.380	0.435	-14.5	154	-0.01	6.32
51	S	2-Fluorobiphenyl	1.276	1.425	-11.7	154	0.00	6.33
52	t	2-Chloronaphthalene	1.112	1.259	-13.2	156	0.00	6.44
53	t	Biphenyl	1.336	1.520	-13.8	154	0.00	6.42
54	t	2-Nitroaniline	0.317	0.348	-9.8	146	0.00	6.53
55	t	Dimethylphthalate	1.225	1.393	-13.7	154	0.00	6.69
56	t	Acenaphthylene	1.527	1.705	-11.7	153	0.00	6.81
57	t	2,6-Dinitrotoluene	0.254	0.293	-15.4	159	0.00	6.75
58	t	3-Nitroaniline	0.296	0.334	-12.8	151	0.00	6.92
59	t	Acenaphthene	1.116	1.237	-10.8	154	0.00	6.97
			True	Calc.	% Drift			
60	t	2,4-Dinitrophenol	100.000	109.561	-9.6	157	0.00	7.02
			AvgRF	CCRF	% Dev			
61	t	4-Nitrophenol	0.161	0.178	-10.6	146	-0.01	7.13
62	t	Dibenzofuran	1.538	1.719	-11.8	154	0.00	7.15
63	t	2,4-Dinitrotoluene	0.360	0.422	-17.2	154	0.00	7.15
64		2,3,4,6-Tetrachlorophenol	0.260	0.287	-10.4	150	0.00	7.29
65	t	Diethylphthalate	1.244	1.383	-11.2	154	0.00	7.41
66	t	Fluorene	1.211	1.378	-13.8	156	0.00	7.53
67	t	4-Chlorophenyl-phenylethe	0.574	0.638	-11.1	150	0.00	7.53
68	t	4-Nitroaniline	0.286	0.325	-13.6	151	0.00	7.58
69	I	Phenanthrene-d10	1.000	1.000	0.0	155	0.00	8.80
			True	Calc.	% Drift			
70	t	4,6-Dinitro-2-methylpheno	50.000	53.914	-7.8	162	0.00	7.61
			AvgRF	CCRF	% Dev			
71	t	n-Nitrosodiphenylamine	0.577	0.650	-12.7	153	0.00	7.68
72	t	1,2-Diphenylhydrazine	0.727	0.802	-10.3	150	0.00	7.72
73	S	2,4,6-Tribromophenol	0.083	0.095	-14.5	157	0.00	7.83
74	t	4-Bromophenyl-phenylether	0.191	0.214	-12.0	153	0.00	8.16
75	t	Hexachlorobenzene	0.203	0.223	-9.9	151	0.00	8.23
			True	Calc.	% Drift			
76	t	Pentachlorophenol	100.000	112.814	-12.8	165	0.00	8.54
			AvgRF	CCRF	% Dev			
77	t	Phenanthrene	0.996	1.095	-9.9	151	0.00	8.84
78	t	Anthracene	0.993	1.121	-12.9	154	0.00	8.92
79	t	Carbazole	0.935	1.060	-13.4	158	0.00	9.21

Continuing Calibration Summary

Job Number: JD91204 **Sample:** EF9807-CC9803
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** F220732.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

80	t	Di-n-butylphthalate	1.186	1.361	-14.8	158	-0.01	9.90
81	t	Fluoranthene	1.029	1.175	-14.2	156	0.00	10.97
82	t	Octadecane	0.482	0.541	-12.2	153	0.00	8.71
83	I	Chrysene-d12	1.000	1.000	0.0	155	0.00	14.06
			True	Calc.	% Drift			
84	t	Benzidine	50.000	43.245	13.5	147	0.00	11.32
			AvgRF	CCRF	% Dev			
85	t	Pyrene	1.332	1.503	-12.8	152	0.00	11.41
86	S	Terphenyl-d14	0.994	1.131	-13.8	152	0.00	11.84
87	t	Butylbenzylphthalate	0.597	0.695	-16.4	155	0.00	13.02
88	t	Benzo[a]anthracene	1.230	1.360	-10.6	155	-0.01	14.03
89	t	3,3'-Dichlorobenzidine	0.447	0.517	-15.7	152	-0.01	14.09
90	t	Chrysene	1.216	1.361	-11.9	152	0.00	14.12
91	t	bis(2-Ethylhexyl)phthalat	0.886	1.034	-16.7	156	-0.01	14.43
92	I	Perylene-d12	1.000	1.000	0.0	151	-0.01	17.10
93	t	Di-n-octylphthalate	1.408	1.723	-22.4#	158	0.00	15.89
94	t	Benzo[b]fluoranthene	1.136	1.291	-13.6	150	0.00	16.36
95	t	Benzo[k]fluoranthene	1.133	1.293	-14.1	152	0.00	16.42
96	t	Benzo[a]pyrene	0.979	1.099	-12.3	151	0.00	16.99
97	t	Indeno[1,2,3-cd]pyrene	1.061	1.176	-10.8	151	0.00	19.07
98	t	Dibenz(a,h)acridine	0.874	0.971	-11.1	149	-0.01	18.70
99	t	Dibenz[a,h]anthracene	1.047	1.161	-10.9	150	0.00	19.12
100	t	7,12-Dimethylbenz(a)anthr	0.480	0.534	-11.3	147	0.00	16.37
101	t	Benzo[g,h,i]perylene	1.011	1.113	-10.1	149	0.00	19.49

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F220652A.D MF9803.M Mon Jul 01 01:05:30 2024

Continuing Calibration Summary

Job Number: JD91204 **Sample:** EF9807-CC9803
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** F220733.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...eelo\ef9807\F220733.D Vial: 2
Acq On : 29 Jun 2024 12:31 pm Operator: kristis
Sample : cc9803-50 Inst : GCMSF
Misc : op54678,ef9807,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...Methods\MF9803.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 25 12:16:26 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
157 I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	111	0.00	4.64
158	Benzaldehyde	1.077	1.237	-14.9	112	0.00	4.33
159 I	Phenanthrene-d10b	1.000	1.000	0.0	108	0.00	8.79
160	Atrazine	0.192	0.217	-13.0	103	0.00	8.42
161 I	Naphthalene-d8b	1.000	1.000	0.0	111	0.00	5.54
162	Caprolactam	0.142	0.158	-11.3	105	0.00	5.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F220652A.D MF9803.M Mon Jul 01 01:05:33 2024

Run Sequence Report

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: E6P4168	**Method:** SW846 8270E	**Instrument ID:** GCMS6P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E6P4168-DFTPP	6P515526.D	05/20/24 16:17	n/a	DFTPP Tune
E6P4168-ICC4168	6P515527.D	05/20/24 17:05	n/a	Initial cal 50
E6P4168-IC4168	6P515528.D	05/20/24 17:33	n/a	Initial cal 1
E6P4168-IC4168	6P515529.D	05/20/24 17:52	n/a	Initial cal 2
E6P4168-IC4168	6P515530.D	05/20/24 18:11	n/a	Initial cal 5
E6P4168-IC4168	6P515531.D	05/20/24 18:30	n/a	Initial cal 10
E6P4168-IC4168	6P515532.D	05/20/24 18:49	n/a	Initial cal 25
E6P4168-IC4168	6P515533.D	05/20/24 19:08	n/a	Initial cal 80
E6P4168-IC4168	6P515534.D	05/20/24 19:27	n/a	Initial cal 100
E6P4168-IC4168	6P515535A.D	05/20/24 21:11	n/a	Initial cal 50
E6P4168-IC4168	6P515536.D	05/20/24 21:30	n/a	Initial cal 1
E6P4168-IC4168	6P515537.D	05/20/24 21:50	n/a	Initial cal 2
E6P4168-IC4168	6P515538.D	05/20/24 22:09	n/a	Initial cal 5
E6P4168-IC4168	6P515539.D	05/20/24 22:28	n/a	Initial cal 10
E6P4168-IC4168	6P515540.D	05/20/24 22:47	n/a	Initial cal 25
E6P4168-IC4168	6P515541.D	05/20/24 23:06	n/a	Initial cal 80
E6P4168-IC4168	6P515542.D	05/20/24 23:25	n/a	Initial cal 100
E6P4168-ICV4168	6P515543.D	05/20/24 23:44	n/a	Initial cal verification 50
E6P4168-ICV4168	6P515544.D	05/21/24 00:03	n/a	Initial cal verification 50
E6P4168-ICV4168	6P515545.D	05/21/24 00:22	n/a	Initial cal verification 50
E6P4168-ICV4168	6P515546.D	05/21/24 00:41	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: E6P4200	**Method:** SW846 8270E	**Instrument ID:** GCMS6P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E6P4200-CC4168	6P516229.D	07/02/24 12:34	n/a	Continuing cal 50
E6P4200-CC4168	6P516230A.D	07/02/24 13:18	n/a	Continuing cal 50
ZZZZZZ	6P516232.D	07/02/24 14:24	OP55799	(unrelated sample)
ZZZZZZ	6P516233.D	07/02/24 14:43	OP55799	(unrelated sample)
ZZZZZZ	6P516234.D	07/02/24 15:02	OP55799	(unrelated sample)
ZZZZZZ	6P516235.D	07/02/24 15:20	OP55799	(unrelated sample)
JD91204-14	6P516236.D	07/02/24 15:44	OP55759	GRID-18
ZZZZZZ	6P516237.D	07/02/24 16:03	OP55799	(unrelated sample)
ZZZZZZ	6P516238.D	07/02/24 16:22	OP55703	(unrelated sample)
ZZZZZZ	6P516239.D	07/02/24 16:41	OP55703	(unrelated sample)
ZZZZZZ	6P516240.D	07/02/24 17:00	OP55733A	(unrelated sample)

Run Sequence Report

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: ECJ296	**Method:** SW846 8270E	**Instrument ID:** GCMSCJ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
ECJ296-DFTPP	CJ6488.D	05/08/24 14:56	n/a	DFTPP Tune
ECJ296-ICC296	CJ6490.D	05/08/24 16:42	n/a	Initial cal 50
ECJ296-IC296	CJ6491.D	05/08/24 17:20	n/a	Initial cal 1
ECJ296-IC296	CJ6492.D	05/08/24 17:39	n/a	Initial cal 2
ECJ296-IC296	CJ6493.D	05/08/24 17:58	n/a	Initial cal 5
ECJ296-IC296	CJ6494.D	05/08/24 18:17	n/a	Initial cal 10
ECJ296-IC296	CJ6495.D	05/08/24 18:36	n/a	Initial cal 25
ECJ296-IC296	CJ6496.D	05/08/24 18:54	n/a	Initial cal 80
ECJ296-IC296	CJ6497.D	05/08/24 19:13	n/a	Initial cal 100
ECJ296-IC296	CJ6498.D	05/08/24 19:32	n/a	Initial cal 50
ECJ296-IC296	CJ6499.D	05/08/24 19:51	n/a	Initial cal 1
ECJ296-IC296	CJ6500.D	05/08/24 20:10	n/a	Initial cal 2
ECJ296-IC296	CJ6501.D	05/08/24 20:29	n/a	Initial cal 5
ECJ296-IC296	CJ6502.D	05/08/24 20:47	n/a	Initial cal 10
ECJ296-IC296	CJ6503.D	05/08/24 21:06	n/a	Initial cal 25
ECJ296-IC296	CJ6504.D	05/08/24 21:25	n/a	Initial cal 80
ECJ296-IC296	CJ6505.D	05/08/24 21:43	n/a	Initial cal 100
ECJ296-ICV296	CJ6506.D	05/08/24 22:02	n/a	Initial cal verification 50
ECJ296-ICV296	CJ6507.D	05/08/24 22:20	n/a	Initial cal verification 50
ECJ296-ICV296	CJ6508.D	05/08/24 22:39	n/a	Initial cal verification 50
ECJ296-ICV296	CJ6509.D	05/08/24 22:58	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: ECJ348	**Method:** SW846 8270E	**Instrument ID:** GCMSCJ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
ECJ348-CC296	CJ7985.D	07/01/24 12:08	n/a	Continuing cal 50
ECJ348-CC296	CJ7986.D	07/01/24 12:27	n/a	Continuing cal 50
ECJ348-CC296	CJ7987.D	07/01/24 12:46	n/a	Continuing cal 2
OP55759-MB1	CJ7989.D	07/01/24 13:24	OP55759	Method Blank
OP55759-BS1	CJ7990.D	07/01/24 13:42	OP55759	Blank Spike
OP55798-MB1	CJ7991.D	07/01/24 14:01	OP55798	Method Blank
OP55798-BS1	CJ7992.D	07/01/24 14:20	OP55798	Blank Spike
ZZZZZZ	CJ7993.D	07/01/24 14:39	OP55759	(unrelated sample)
JD91204-2	CJ7994.D	07/01/24 14:57	OP55759	GRID-27
JD91204-3	CJ7995.D	07/01/24 15:16	OP55759	GRID-25
JD91204-8	CJ7996.D	07/01/24 15:35	OP55759	GRID-14A
JD91204-12	CJ7997.D	07/01/24 15:54	OP55759	GRID-13
JD91204-13	CJ7998.D	07/01/24 16:12	OP55759	GRID-1
JD91204-15	CJ7999.D	07/01/24 16:31	OP55759	GRID-12A
JD91204-17	CJ8000.D	07/01/24 16:50	OP55759	GRID-23
ZZZZZZ	CJ8001.D	07/01/24 17:08	OP55798	(unrelated sample)
JD91373-1	CJ8002.D	07/01/24 17:27	OP55798	(used for QC only; not part of job JD91204)
ZZZZZZ	CJ8003.D	07/01/24 17:46	OP55798	(unrelated sample)
ZZZZZZ	CJ8004.D	07/01/24 18:05	OP55798	(unrelated sample)
ZZZZZZ	CJ8005.D	07/01/24 18:23	OP55798	(unrelated sample)
OP55798-MS	CJ8006.D	07/01/24 18:42	OP55798	Matrix Spike
OP55798-MSD	CJ8007.D	07/01/24 19:01	OP55798	Matrix Spike Duplicate
JD91204-5	CJ8008.D	07/01/24 19:19	OP55759	GRID-28
JD91204-10	CJ8009.D	07/01/24 19:38	OP55759	GRID-2
JD91204-16	CJ8010.D	07/01/24 19:57	OP55759	GRID-22A
JD91204-14	CJ8011.D	07/01/24 20:15	OP55759	GRID-18
JD91204-1	CJ8012.D	07/01/24 20:34	OP55759	GRID-26
JD91204-4	CJ8013.D	07/01/24 20:53	OP55759	GRID-16
JD91204-6	CJ8014.D	07/01/24 21:11	OP55759	GRID-24A
JD91204-7	CJ8015.D	07/01/24 21:30	OP55759	GRID-17
JD91204-9	CJ8016.D	07/01/24 21:49	OP55759	GRID-15
JD91204-11	CJ8017.D	07/01/24 22:08	OP55759	GRID-19
OP55759-MS	CJ8018.D	07/01/24 22:27	OP55759	Matrix Spike
OP55759-MSD	CJ8019.D	07/01/24 22:45	OP55759	Matrix Spike Duplicate

Run Sequence Report

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: EF9803	**Method:** SW846 8270E	**Instrument ID:** GCMSF

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
EF9803-DFTPP	F220643.D	06/24/24 15:20	n/a	DFTPP Tune
EF9803-ICC9803	F220644.D	06/24/24 16:19	n/a	Initial cal 50
EF9803-IC9803	F220645B.D	06/24/24 18:29	n/a	Initial cal 1
EF9803-IC9803	F220646.D	06/24/24 18:55	n/a	Initial cal 2
EF9803-IC9803	F220647.D	06/24/24 19:22	n/a	Initial cal 5
EF9803-IC9803	F220648.D	06/24/24 19:48	n/a	Initial cal 10
EF9803-IC9803	F220649.D	06/24/24 20:15	n/a	Initial cal 25
EF9803-IC9803	F220650.D	06/24/24 20:41	n/a	Initial cal 80
EF9803-IC9803	F220651.D	06/24/24 21:07	n/a	Initial cal 100
EF9803-IC9803	F220652.D	06/24/24 21:34	n/a	Initial cal 50
EF9803-IC9803	F220653.D	06/24/24 22:00	n/a	Initial cal 1
EF9803-IC9803	F220654.D	06/24/24 22:26	n/a	Initial cal 2
EF9803-IC9803	F220655.D	06/24/24 22:52	n/a	Initial cal 5
EF9803-IC9803	F220656.D	06/24/24 23:18	n/a	Initial cal 10
EF9803-IC9803	F220657.D	06/24/24 23:45	n/a	Initial cal 25
EF9803-IC9803	F220658.D	06/25/24 00:11	n/a	Initial cal 80
EF9803-IC9803	F220659.D	06/25/24 00:37	n/a	Initial cal 100
EF9803-ICV9803	F220660.D	06/25/24 01:02	n/a	Initial cal verification 50
EF9803-ICV9803	F220661.D	06/25/24 01:28	n/a	Initial cal verification 50
EF9803-ICV9803	F220662.D	06/25/24 01:54	n/a	Initial cal verification 50
EF9803-ICV9803	F220663.D	06/25/24 02:20	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: EF9807	**Method:** SW846 8270E	**Instrument ID:** GCMSF

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
EF9807-CC9803	F220732.D	06/29/24 11:58	n/a	Continuing cal 50
EF9807-CC9803	F220733.D	06/29/24 12:31	n/a	Continuing cal 50
OP55747-MB1	F220735.D	06/29/24 13:38	OP55747	Method Blank
ZZZZZZ	F220736.D	06/29/24 14:04	OP55747	(unrelated sample)
JD91204-18	F220737.D	06/29/24 14:36	OP55747	FB-1
JD91204-19	F220738.D	06/29/24 15:02	OP55747	FB-2
OP55747-BS1	F220739.D	06/29/24 15:27	OP55747	Blank Spike
OP55747-BSD	F220740.D	06/29/24 15:53	OP55747	Blank Spike Duplicate
ZZZZZZ	F220741.D	06/29/24 16:19	OP55747	(unrelated sample)
ZZZZZZ	F220742.D	06/29/24 16:45	OP55747	(unrelated sample)
ZZZZZZ	F220743.D	06/29/24 17:11	OP55747	(unrelated sample)

MS Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 07/02/24 05:10

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1 Inst : GCMSCJ
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 02 04:23:31 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	4.365	152	370618	40.00	ppm		0.00
24) Naphthalene-d8	5.162	136	1361257	40.00	ppm		0.00
46) Acenaphthene-d10	6.312	164	769493	40.00	ppm		0.00
69) Phenanthrene-d10	7.489	188	1420000	40.00	ppm		0.00
84) Chrysene-d12	9.970	240	1105746	40.00	ppm		0.01
93) Perylene-d12	11.286	264	1150645	40.00	ppm		0.02
103) 1,4-Dichlorobenzene-d4a	4.365	152	370618	40.00	ppm		0.00
105) Phenanthrene-d10a	7.489	188	1420000	40.00	ppm		0.00
107) Naphthalene-d8a	5.162	136	1361257	40.00	ppm		0.00
109) Phenanthrene-d10b	7.489	188	1420000	40.00	ppm	#	0.00
112) Chrysene-d12a	9.970	240	1105746	40.00	ppm		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	3.563	112	269038	25.25	ppm		0.04
Spiked Amount 50.000			Recovery = 50.50%				
8) Phenol-d5	4.178	99	396785	28.88	ppm		0.02
Spiked Amount 50.000			Recovery = 57.76%				
25) Nitrobenzene-d5	4.723	82	410087	29.42	ppm		0.00
Spiked Amount 50.000			Recovery = 58.84%				
51) 2-Fluorobiphenyl	5.841	172	800306	33.05	ppm		0.00
Spiked Amount 50.000			Recovery = 66.10%				
74) 2,4,6-Tribromophenol	6.916	330	86031	27.63	ppm		0.00
Spiked Amount 50.000			Recovery = 55.26%				
87) Terphenyl-d14	8.954	244	932159	34.12	ppm		0.00
Spiked Amount 50.000			Recovery = 68.24%				
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm		
Spiked Amount 50.000			Recovery = 0.00%				
111) o-terphenyl	0.000	230	0	0.00	ppm		
Spiked Amount 50.000			Recovery = 0.00%				
Target Compounds							Qvalue
18) Acetophenone	4.632	105	3097	0.1818	ppm		83
21) 3&4-Methylphenol	4.659	108	1938	0.1833	ppm		97
38) Naphthalene	5.178	128	41562	1.2746	ppm		99
44) 2-Methylnaphthalene	5.611	141	19493	1.0082	ppm		99
53) Biphenyl	5.911	154	7479	0.2829	ppm		95
56) Acenaphthylene	6.210	152	126961	4.2540	ppm		99
59) Acenaphthene	6.333	153	28561	1.3457	ppm		95
62) Dibenzofuran	6.462	168	23831	0.8091	ppm		97
66) Fluorene	6.718	166	39663m	1.7047	ppm		
78) Phenanthrene	7.510	178	601031	17.5139	ppm		99
79) Anthracene	7.558	178	226961	6.6050	ppm		96
80) Carbazole	7.708	167	39394	1.2303	ppm		98
81) Di-n-butylphthalate	8.013	149	6553	0.1656	ppm		95
82) Fluoranthene	8.590	202	1574794	42.3873	ppm		99
86) Pyrene	8.804	202	1415235	37.6344	ppm		98
89) Benzo[a]anthracene	9.960	228	791100	22.2516	ppm		95
91) Chrysene	9.997	228	688778	20.9983	ppm		98
92) bis(2-Ethylhexyl)phtha...	10.008	149	75285	3.0295	ppm		98
95) Benzo[b]fluoranthene	10.960	252	986633m	28.3846	ppm		
96) Benzo[k]fluoranthene	10.976	252	301104m	9.6268	ppm		
97) Benzo[a]pyrene	11.238	252	686586	23.8607	ppm		98
98) Indeno[1,2,3-cd]pyrene	12.324	276	463457	13.3231	ppm		89
100) Dibenz[a,h]anthracene	12.324	278	133753	4.8121	ppm		80
102) Benzo[g,h,i]perylene	12.623	276	446986	16.5350	ppm		99

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1 Inst : GCMSCJ
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 02 04:23:31 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

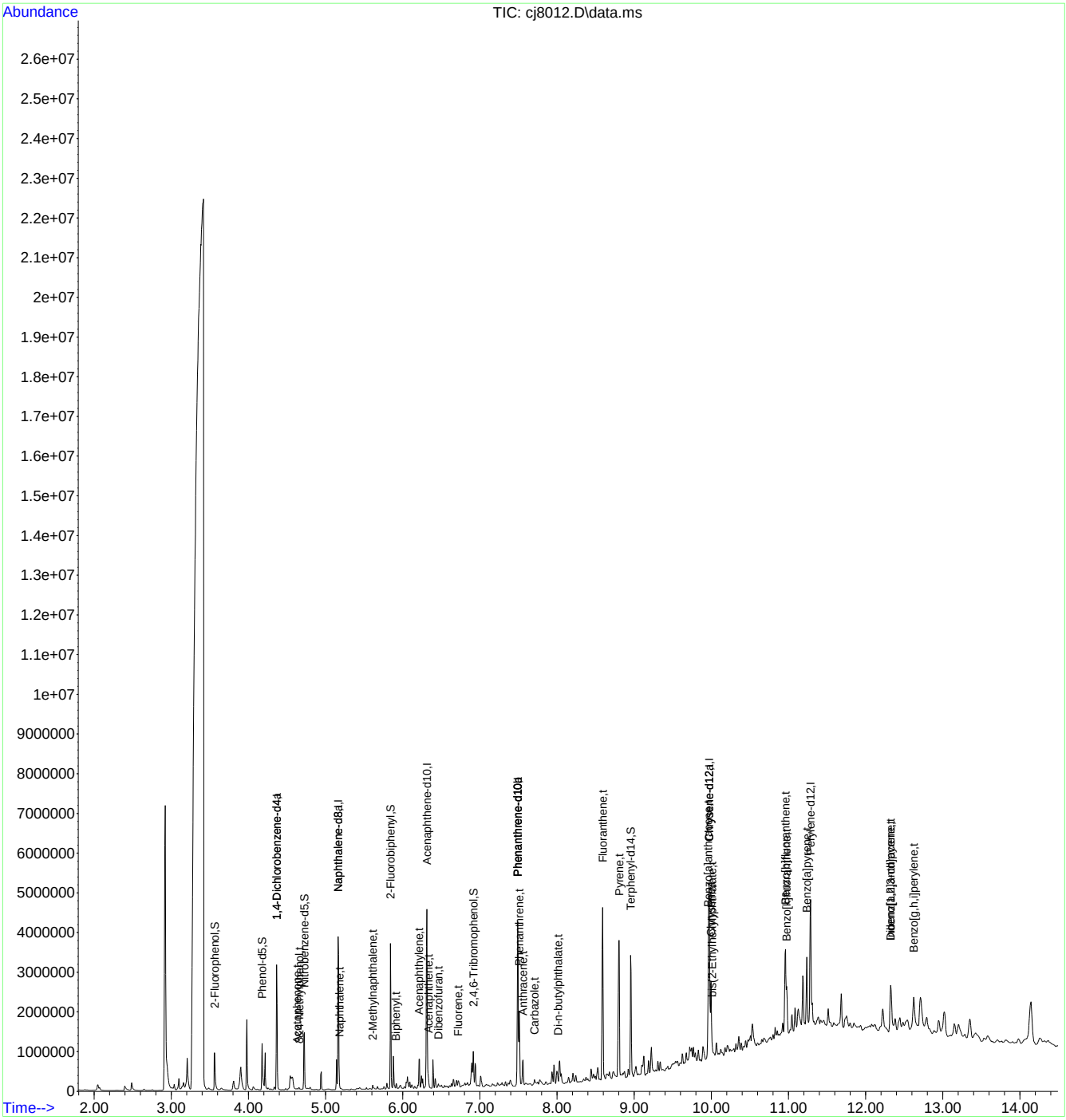
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

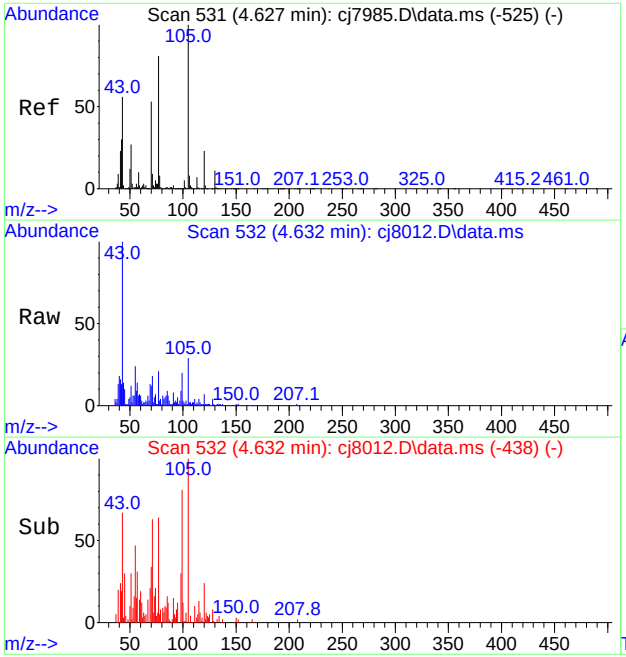
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1 Inst : GCMSCJ
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 02 04:23:31 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

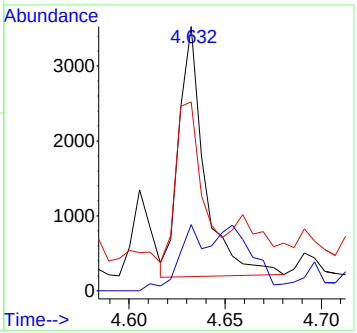


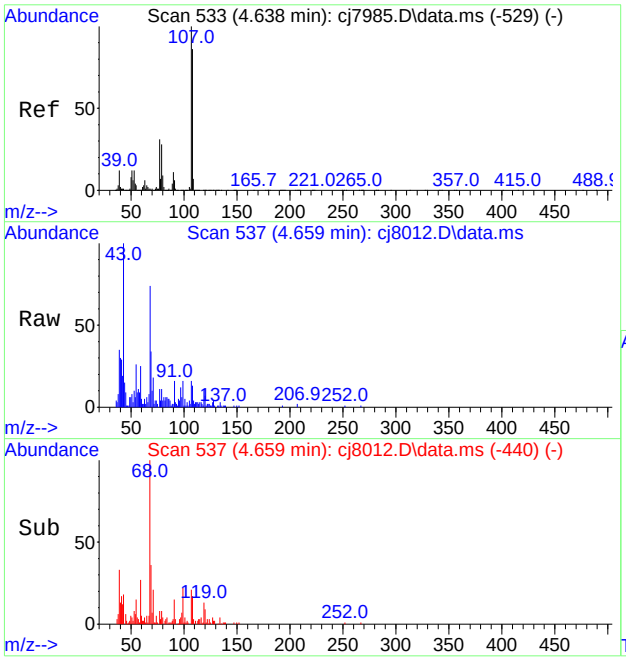


#18
Acetophenone
Concen: 0.1818 ppm
RT: 4.632 min Scan# 532
Delta R.T. 0.005 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:105 Resp: 3097

Ion	Ratio	Lower	Upper
105	100		
120	24.8	0.0	53.1
77	62.3	50.8	110.8

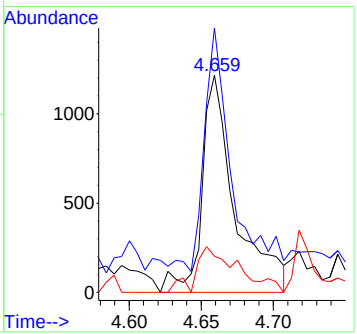


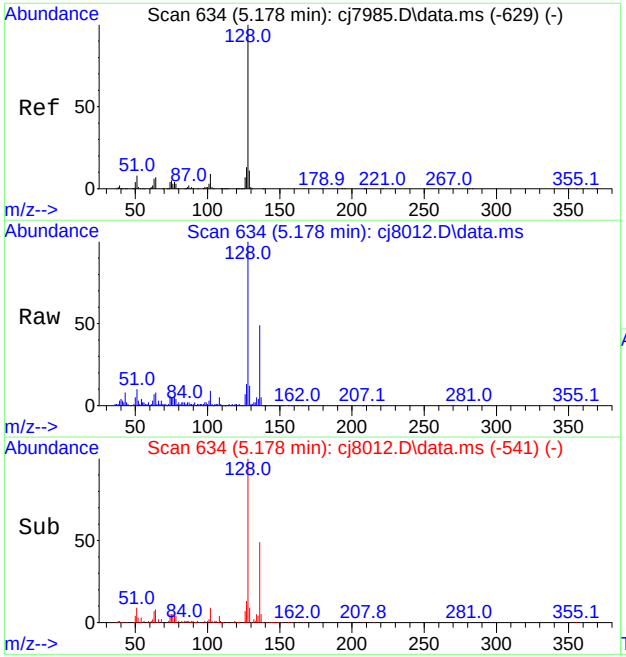


#21
3&4-Methylphenol
Concen: 0.1833 ppm
RT: 4.659 min Scan# 537
Delta R.T. 0.021 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:108 Resp: 1938

Ion	Ratio	Lower	Upper
108	100		
107	114.2	85.6	145.6
90	17.8	0.0	42.2

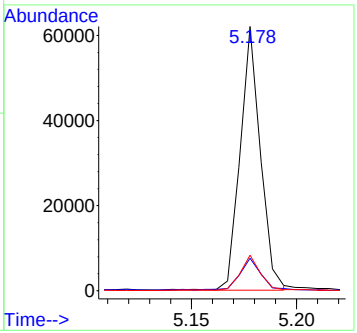


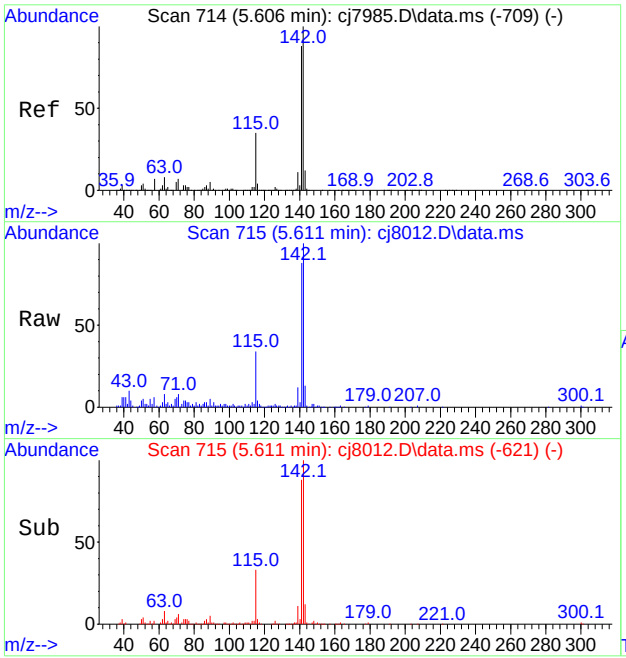


#38
Naphthalene
Concen: 1.2746 ppm
RT: 5.178 min Scan# 634
Delta R.T. -0.000 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:128 Resp: 41562

Ion	Ratio	Lower	Upper
128	100		
129	11.8	0.0	41.3
127	13.3	0.0	43.5

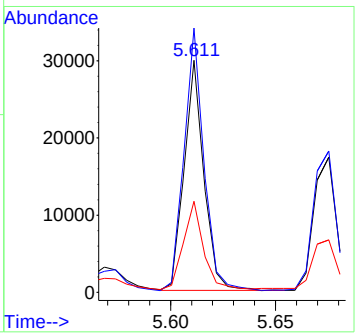


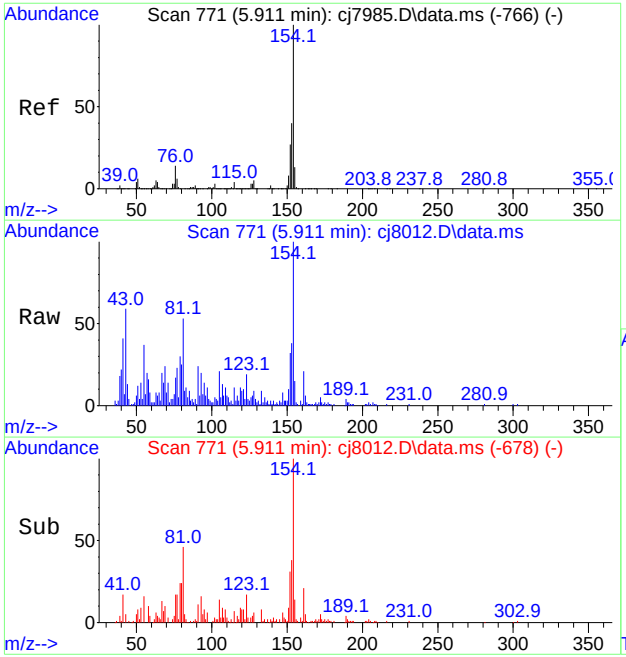


#44
2-Methylnaphthalene
Concen: 1.0082 ppm
RT: 5.611 min Scan# 715
Delta R.T. 0.005 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:141 Resp: 19493

Ion	Ratio	Lower	Upper
141	100		
142	114.2	83.7	143.7
115	38.2	9.3	69.3

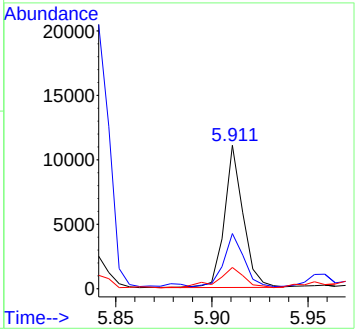


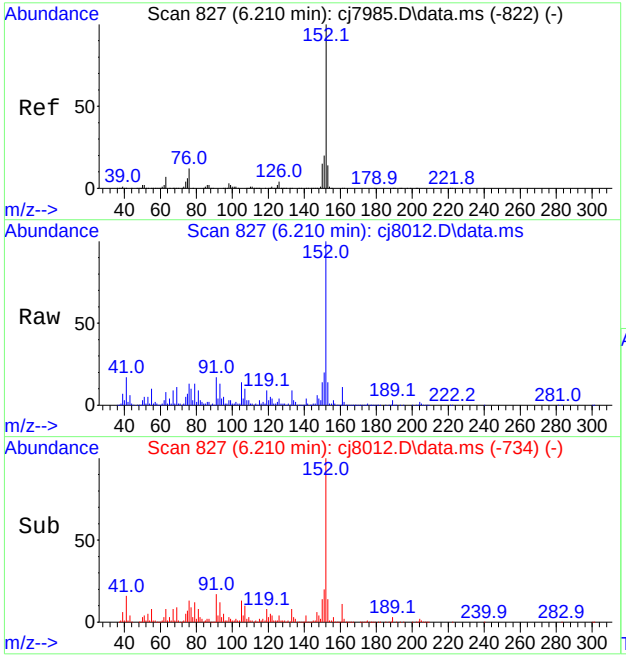


#53
Biphenyl
Concen: 0.2829 ppm
RT: 5.911 min Scan# 771
Delta R.T. -0.000 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:154 Resp: 7479

Ion	Ratio	Lower	Upper
154	100		
153	37.0	10.3	70.3
155	14.0	0.0	42.9

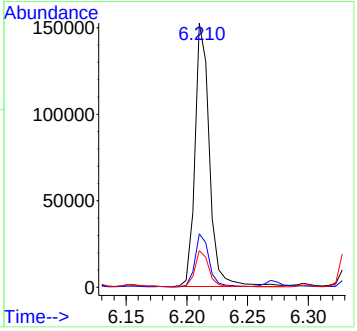


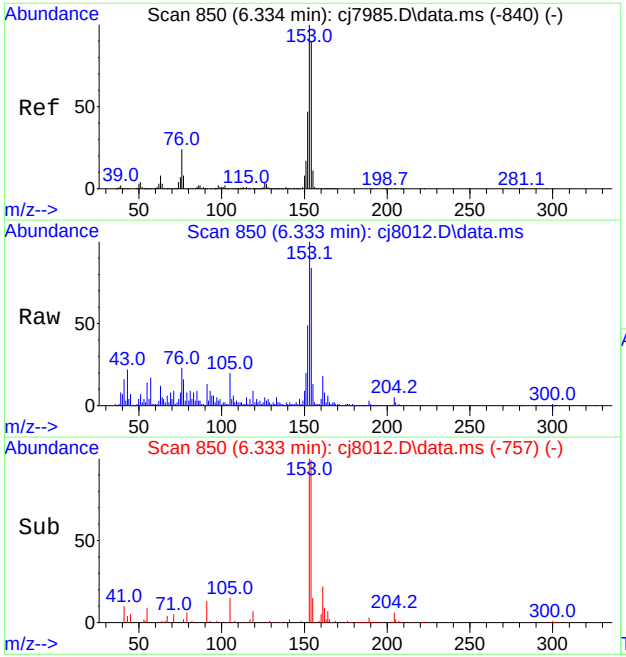


#56
Acenaphthylene
Concen: 4.2540 ppm
RT: 6.210 min Scan# 827
Delta R.T. -0.000 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:152 Resp: 126961

Ion	Ratio	Lower	Upper
152	100		
151	19.8	0.0	50.2
153	13.7	0.0	43.5

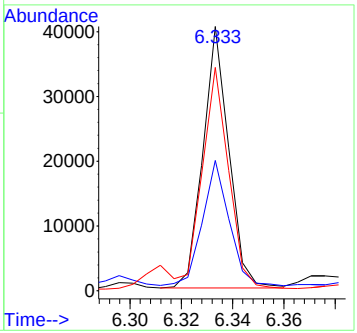


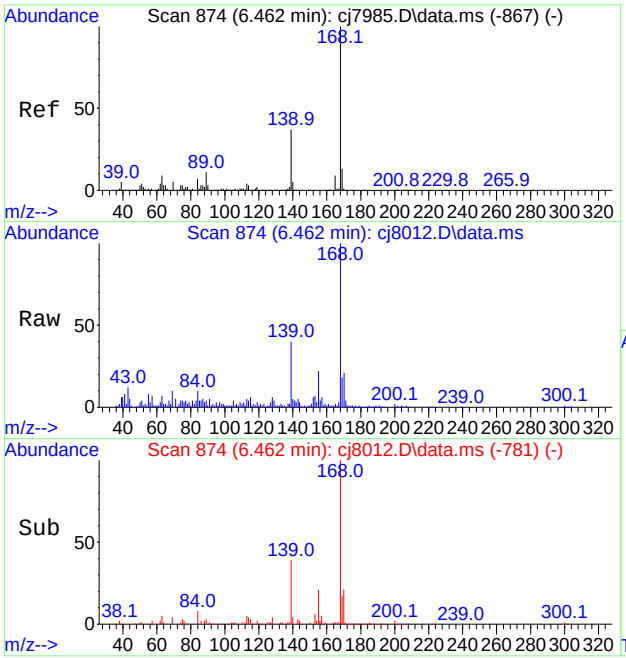


#59
Acenaphthene
Concen: 1.3457 ppm
RT: 6.333 min Scan# 850
Delta R.T. -0.000 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:153 Resp: 28561

Ion	Ratio	Lower	Upper
153	100		
152	47.9	16.9	76.9
154	80.2	56.2	116.2

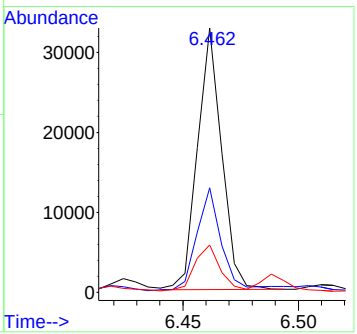


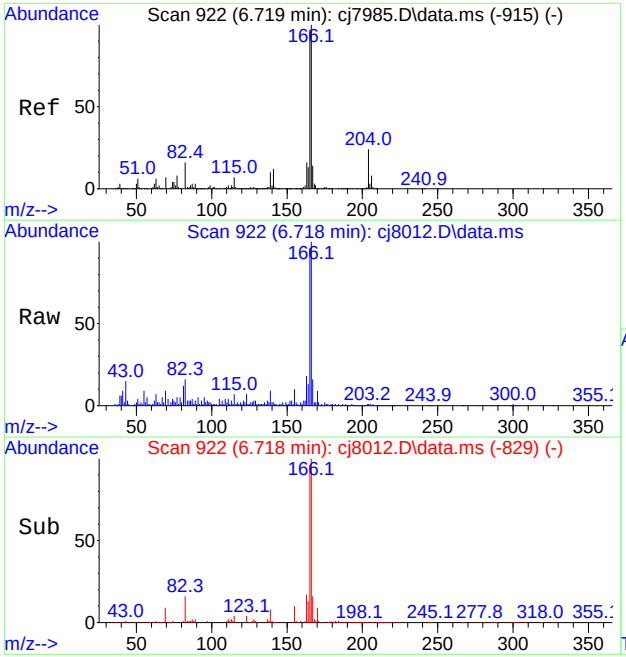


#62
Dibenzofuran
Concen: 0.8091 ppm
RT: 6.462 min Scan# 874
Delta R.T. -0.000 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:168 Resp: 23831

Ion	Ratio	Lower	Upper
168	100		
139	38.4	7.3	67.3
169	15.7	0.0	43.4

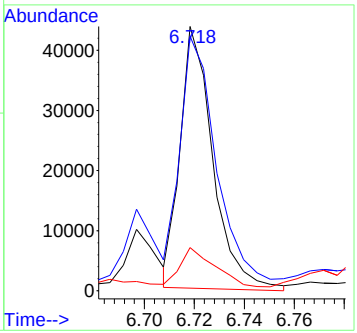


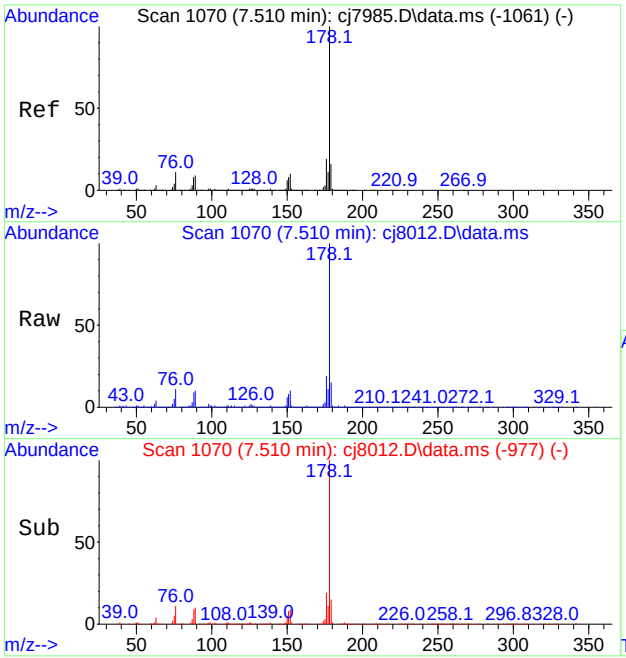


#66
Fluorene
Concen: 1.7047 ppm m
RT: 6.718 min Scan# 922
Delta R.T. -0.000 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:166 Resp: 39663

Ion	Ratio	Lower	Upper
166	100		
165	96.3	67.2	127.2
167	16.4	0.0	43.8

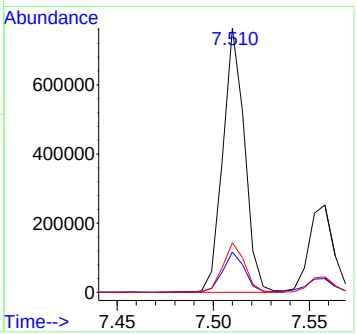


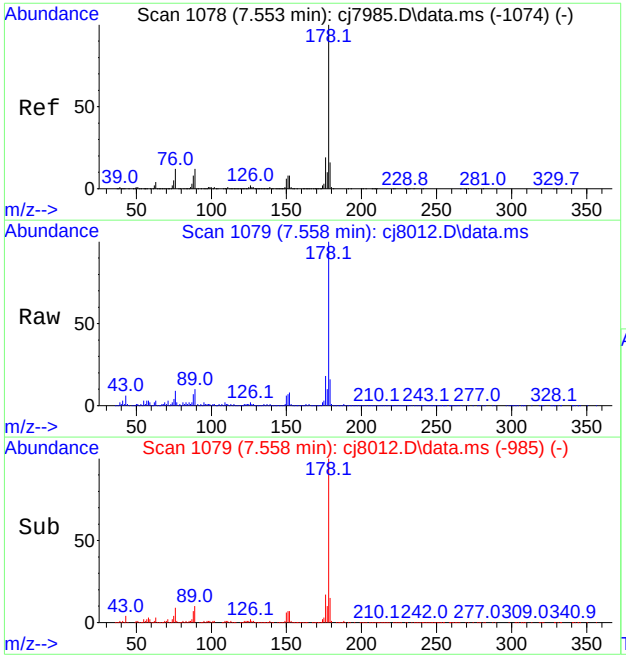


#78
Phenanthrene
Concen: 17.5139 ppm
RT: 7.510 min Scan# 1070
Delta R.T. -0.000 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:178 Resp: 601031

Ion	Ratio	Lower	Upper
178	100		
179	15.1	0.0	45.5
176	18.7	0.0	48.7

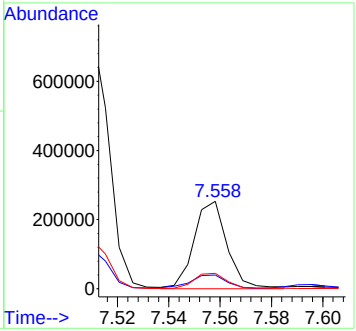


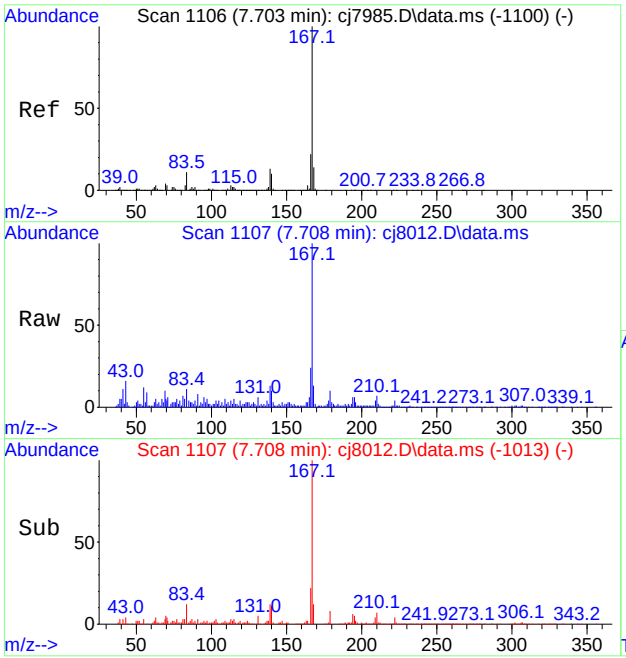


#79
Anthracene
Concen: 6.6050 ppm
RT: 7.558 min Scan# 1079
Delta R.T. 0.005 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:178 Resp: 226961

Ion	Ratio	Lower	Upper
178	100		
179	14.1	0.0	45.9
176	17.4	0.0	48.8

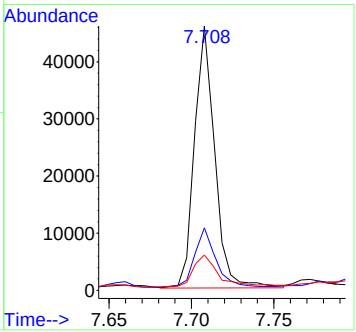


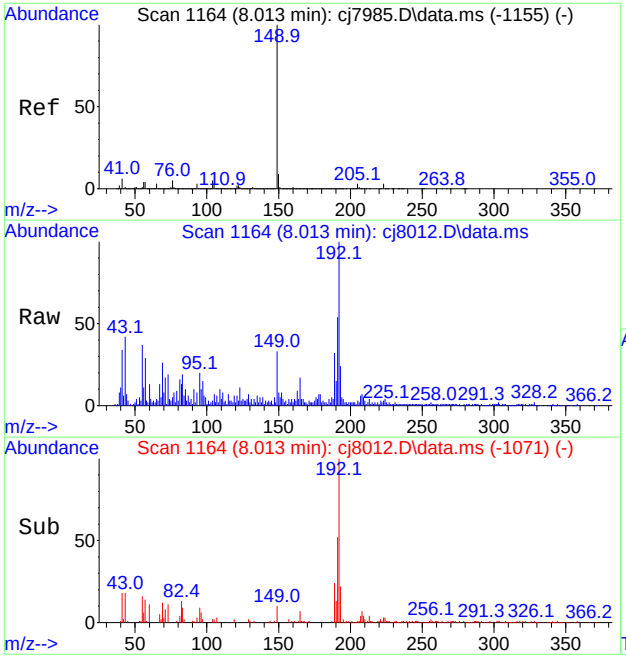


#80
Carbazole
Concen: 1.2303 ppm
RT: 7.708 min Scan# 1107
Delta R.T. 0.005 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:167 Resp: 39394

Ion	Ratio	Lower	Upper
167	100		
166	22.5	0.0	51.7
139	11.9	0.0	42.8

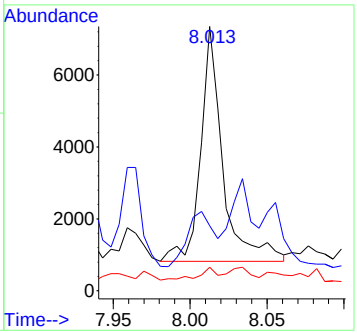


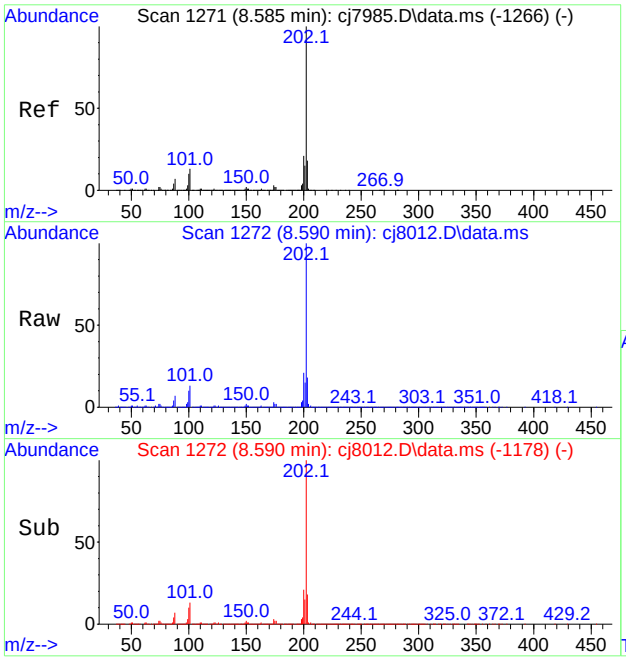


#81
Di-n-butylphthalate
Concen: 0.1656 ppm
RT: 8.013 min Scan# 1164
Delta R.T. -0.000 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:149 Resp: 6553

Ion	Ratio	Lower	Upper
149	100		
150	11.6	0.0	39.2
104	4.4	0.0	34.6

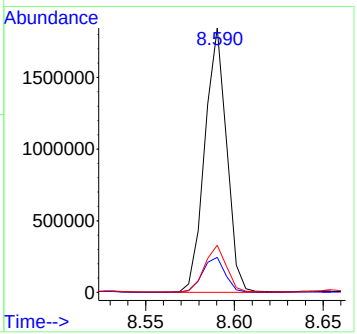


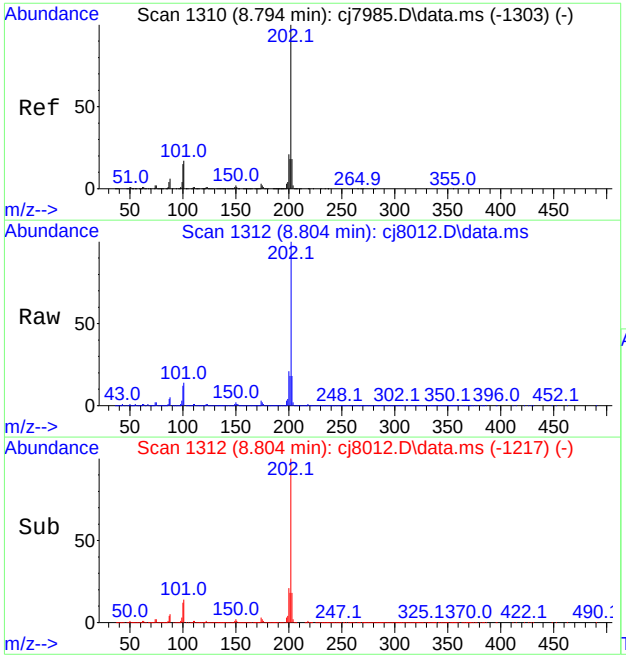


#82
Fluoranthene
Concen: 42.3873 ppm
RT: 8.590 min Scan# 1272
Delta R.T. 0.005 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:202 Resp: 1574794

Ion	Ratio	Lower	Upper
202	100		
101	13.2	0.0	42.9
203	17.8	0.0	47.5

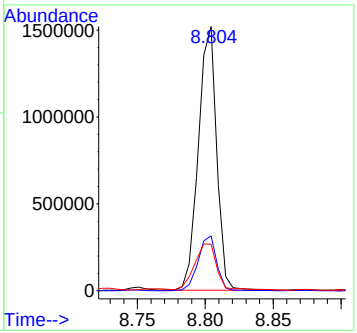


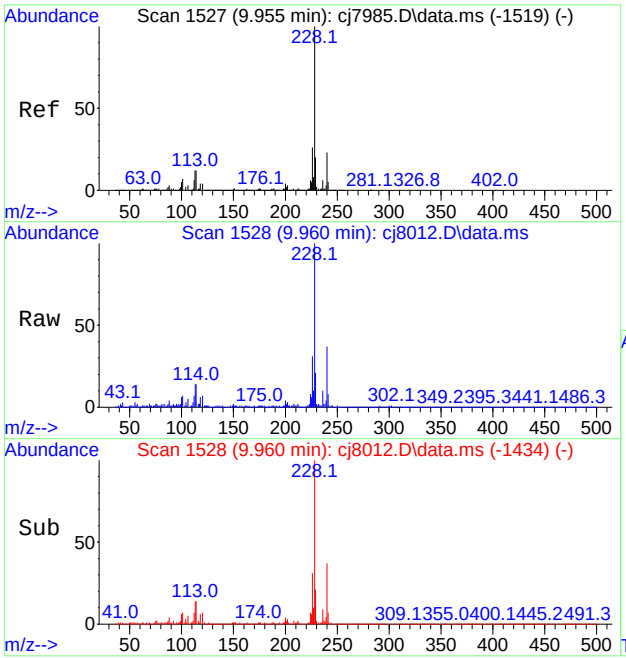


#86
Pyrene
Concen: 37.6344 ppm
RT: 8.804 min Scan# 1312
Delta R.T. 0.010 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:202 Resp: 1415235

Ion	Ratio	Lower	Upper
202	100		
200	20.8	0.0	51.0
203	17.2	0.0	48.5

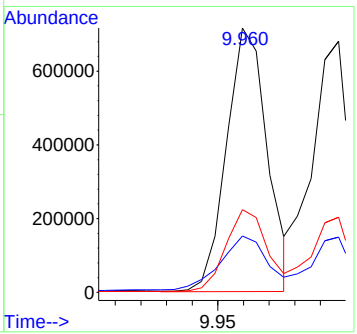


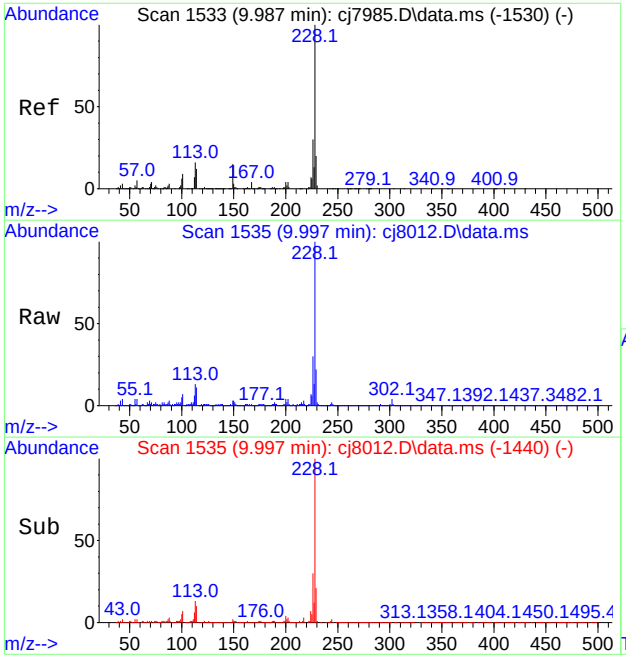


#89
Benzo[a]anthracene
Concen: 22.2516 ppm
RT: 9.960 min Scan# 1528
Delta R.T. 0.005 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:228 Resp: 791100

Ion	Ratio	Lower	Upper
228	100		
229	20.1	0.0	49.9
226	30.9	0.0	56.5

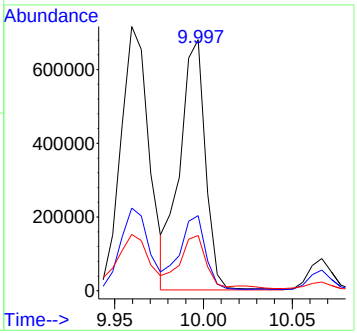


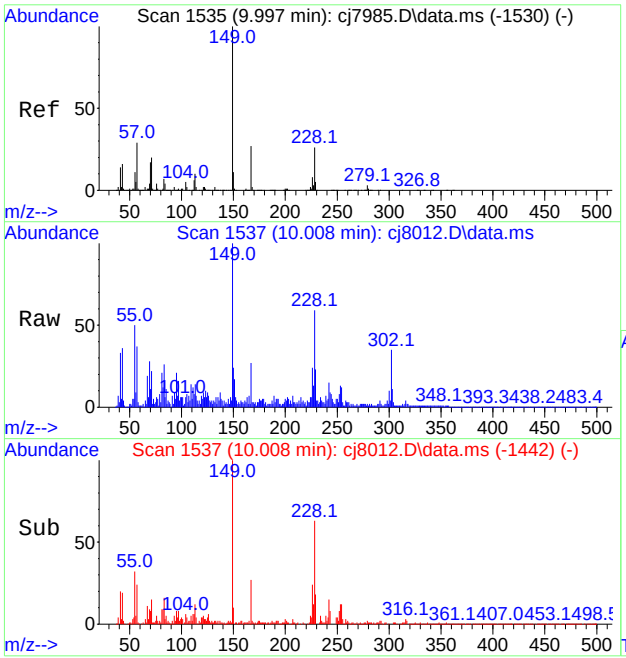


#91
Chrysene
Concen: 20.9983 ppm
RT: 9.997 min Scan# 1535
Delta R.T. 0.010 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:228 Resp: 688778

Ion	Ratio	Lower	Upper
228	100		
226	29.3	0.3	60.3
229	20.9	0.0	50.3

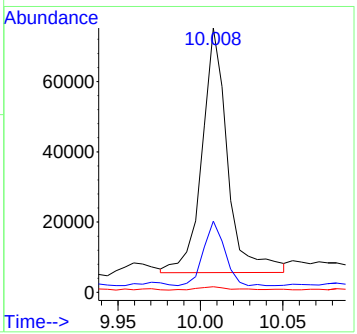


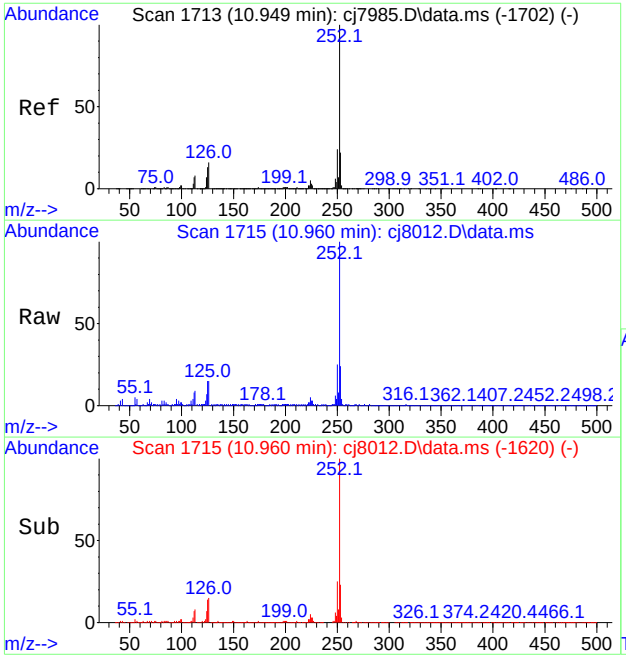


#92
bis(2-Ethylhexyl)phthalate
Concen: 3.0295 ppm
RT: 10.008 min Scan# 1537
Delta R.T. 0.010 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:149 Resp: 75285

Ion	Ratio	Lower	Upper
149	100		
167	26.4	0.0	56.9
279	1.1	0.0	33.4

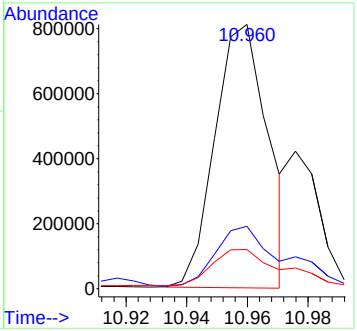


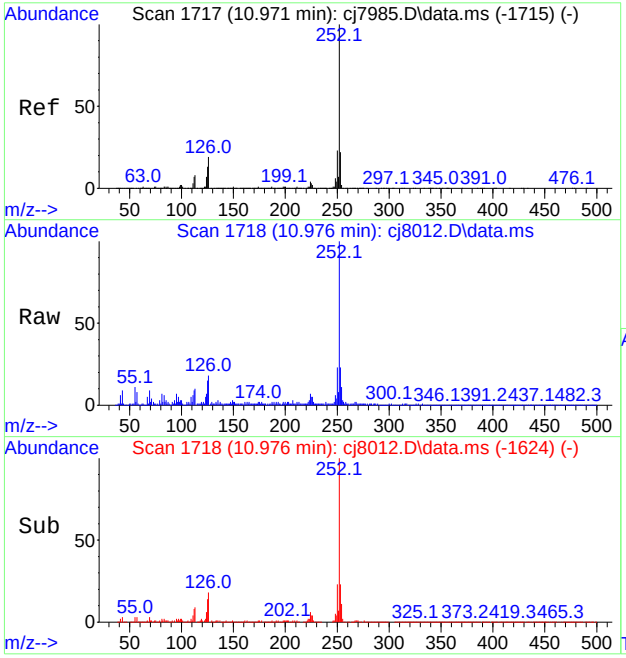


#95
Benzo[b]fluoranthene
Concen: 28.3846 ppm m
RT: 10.960 min Scan# 1715
Delta R.T. 0.010 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:252 Resp: 986633

Ion	Ratio	Lower	Upper
252	100		
253	23.6	0.0	52.5
125	14.9	0.0	42.4

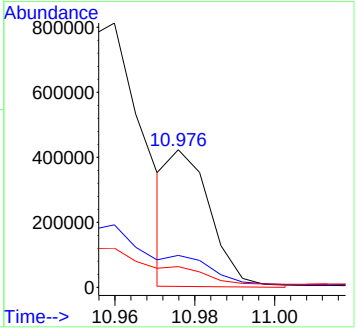


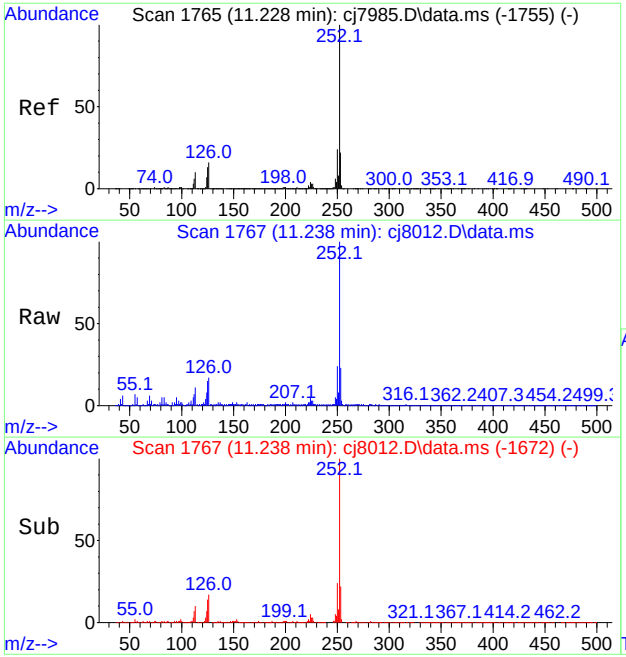


#96
Benzo[k]fluoranthene
Concen: 9.6268 ppm m
RT: 10.976 min Scan# 1718
Delta R.T. 0.005 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:252 Resp: 301104

Ion	Ratio	Lower	Upper
252	100		
253	23.3	0.0	51.7
125	15.1	0.0	43.5

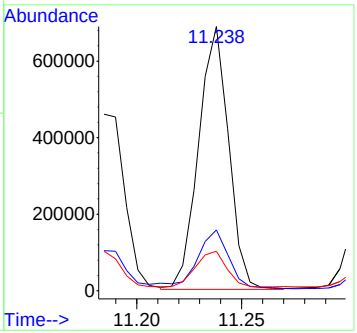


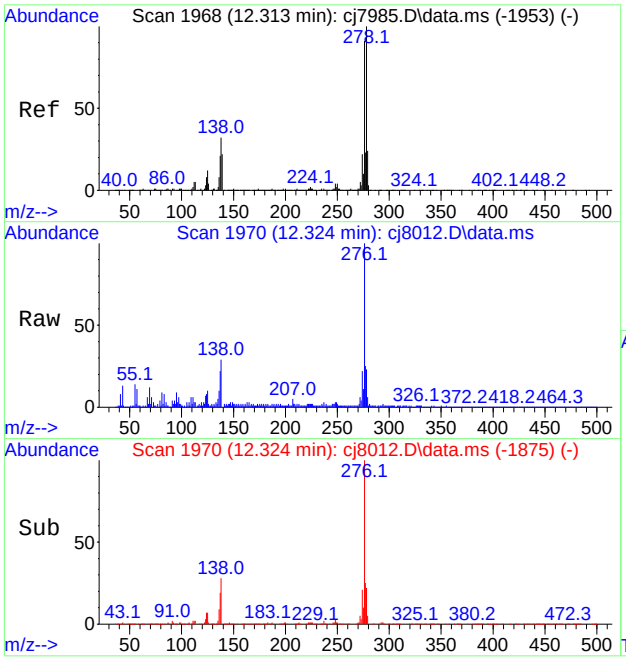


#97
Benzo[a]pyrene
Concen: 23.8607 ppm
RT: 11.238 min Scan# 1767
Delta R.T. 0.010 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:252 Resp: 686586

Ion	Ratio	Lower	Upper
252	100		
253	21.3	0.0	52.1
125	13.5	0.0	42.5

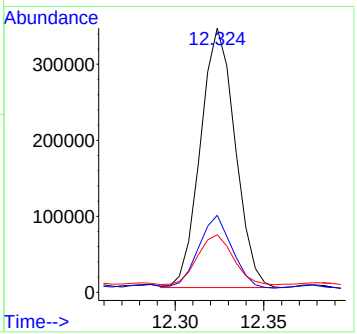


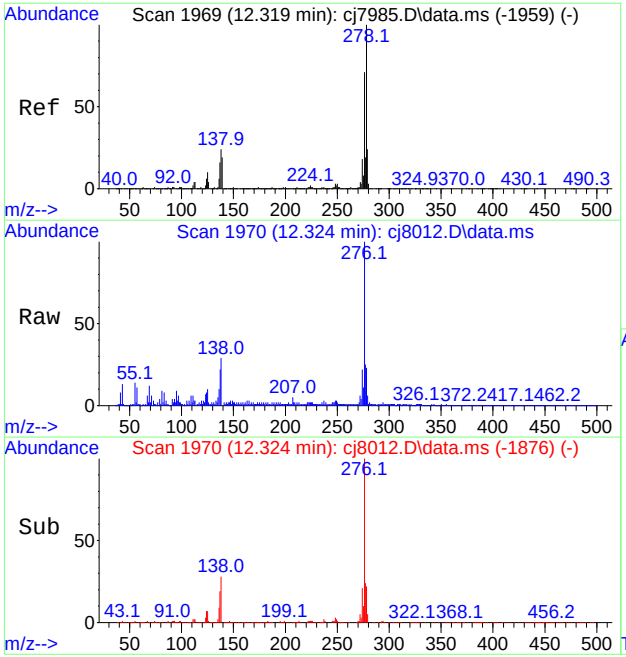


#98
Indeno[1,2,3-cd]pyrene
Concen: 13.3231 ppm
RT: 12.324 min Scan# 1970
Delta R.T. 0.010 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:276 Resp: 463457

Ion	Ratio	Lower	Upper
276	100		
138	27.6	5.2	65.2
137	19.2	0.0	53.3

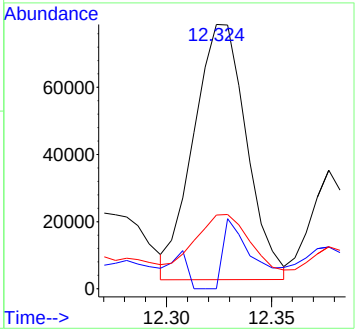


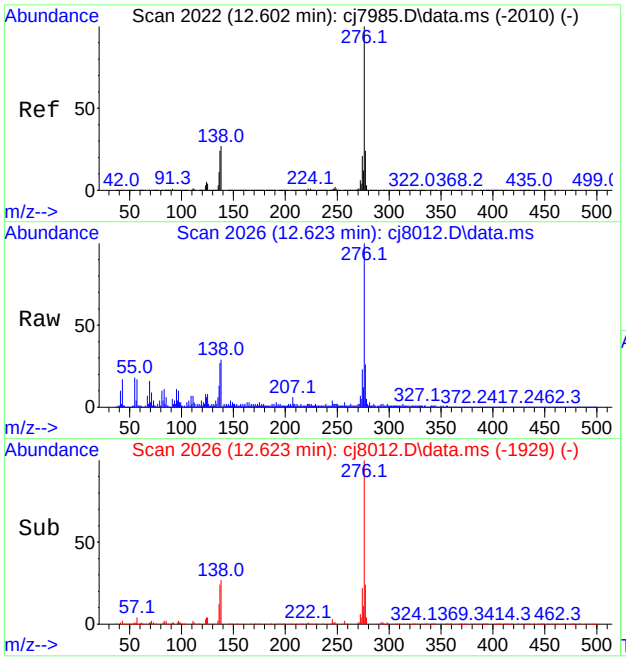


#100
Dibenz[a,h]anthracene
Concen: 4.8121 ppm
RT: 12.324 min Scan# 1970
Delta R.T. 0.005 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:278 Resp: 133753

Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	48.9
279	22.1	0.0	53.7

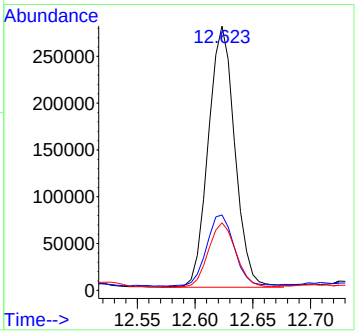




#102
Benzo[g,h,i]perylene
Concen: 16.5350 ppm
RT: 12.623 min Scan# 2026
Delta R.T. 0.021 min
Lab File: cj8012.D
Acq: 01 Jul 2024 08:34 pm

Tgt Ion:276 Resp: 446986

Ion	Ratio	Lower	Upper
276	100		
138	27.1	0.0	57.0
277	24.5	0.0	53.6



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj8012.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.178	443	447	452	rBV	1170572	1127629	16.33%	0.746%
2	4.215	452	454	459	rVV	932333	625015	9.05%	0.414%
3	4.365	479	482	493	rVB	3154387	2206750	31.95%	1.461%
4	4.541	508	515	518	rBV2	352278	524550	7.60%	0.347%
5	4.568	518	520	529	rVV2	318896	443972	6.43%	0.294%
6	4.723	542	549	555	rVV	1439550	1210430	17.53%	0.801%
7	4.943	583	590	596	rVB	455430	333020	4.82%	0.220%
8	5.140	621	627	629	rBV	760102	526758	7.63%	0.349%
9	5.162	629	631	644	rVB	3863445	2971188	43.02%	1.967%
10	5.841	754	758	762	rBV	3660002	2381728	34.49%	1.577%
11	5.879	762	765	770	rVB2	800027	517193	7.49%	0.342%
12	6.060	794	799	803	rBV3	295183	363517	5.26%	0.241%
13	6.210	820	827	830	rBV	736344	655152	9.49%	0.434%
14	6.312	839	846	857	rVB	4512025	3841807	55.63%	2.543%
15	6.392	857	861	864	rBV	723303	501505	7.26%	0.332%
16	6.895	948	955	956	rBV2	576428	568037	8.23%	0.376%
17	6.916	956	959	961	rVB	787612	668254	9.68%	0.442%
18	6.938	961	963	968	rVB	568509	477836	6.92%	0.316%
19	7.489	1059	1066	1069	rBV	4160243	3953394	57.25%	2.617%
20	7.510	1069	1070	1075	rVB	1838793	1039826	15.06%	0.688%
21	7.558	1075	1079	1083	rVB	623103	554439	8.03%	0.367%
22	7.959	1152	1154	1158	rVB	471963	399833	5.79%	0.265%
23	7.997	1158	1161	1165	rBV2	314298	386600	5.60%	0.256%
24	8.034	1165	1168	1179	rVB2	579144	819428	11.87%	0.542%
25	8.590	1267	1272	1279	rBV	4350695	3898818	56.46%	2.581%
26	8.729	1294	1298	1306	rBV3	178265	373238	5.40%	0.247%
27	8.804	1306	1312	1319	rBV	3437814	3774446	54.65%	2.498%
28	8.954	1337	1340	1347	rVB	3060136	2777459	40.22%	1.839%
29	9.018	1347	1352	1357	rBV3	259862	421710	6.11%	0.279%
30	9.125	1361	1372	1375	rVB2	489703	831817	12.04%	0.551%
31	9.184	1376	1383	1386	rBV	374975	439732	6.37%	0.291%
32	9.222	1386	1390	1398	rBV	650497	729744	10.57%	0.483%
33	9.537	1434	1449	1450	rBV5	200963	591437	8.56%	0.391%
34	9.719	1478	1483	1486	rBV2	336643	471975	6.83%	0.312%
35	9.890	1511	1515	1522	rBV3	371099	598720	8.67%	0.396%
36	9.970	1522	1530	1533	rBV2	4360885	5924067	85.78%	3.921%
37	9.997	1533	1535	1544	rVV2	1922692	1923375	27.85%	1.273%
38	10.067	1544	1548	1551	rVV2	366076	442220	6.40%	0.293%
39	10.120	1555	1558	1565	rVV3	190968	344678	4.99%	0.228%
40	10.211	1571	1575	1579	rVV4	275584	523826	7.59%	0.347%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	10.291	1584	1590	1592	rVV5	180425	367445	5.32%	0.243%
42	10.318	1592	1595	1598	rVV2	299090	377309	5.46%	0.250%
43	10.355	1598	1602	1605	rVV2	476046	632283	9.16%	0.419%
44	10.388	1605	1608	1611	rVV	306061	393639	5.70%	0.261%
45	10.446	1611	1619	1621	rVV4	352255	755028	10.93%	0.500%
46	10.478	1621	1625	1626	rVV3	375906	520778	7.54%	0.345%
47	10.505	1626	1630	1632	rVV3	470558	753236	10.91%	0.499%
48	10.532	1632	1635	1645	rVV4	751349	1727301	25.01%	1.143%
49	10.596	1645	1647	1651	rVV4	265973	461175	6.68%	0.305%
50	10.655	1651	1658	1660	rVV4	351971	801500	11.61%	0.531%
51	10.682	1660	1663	1669	rVV3	376440	943772	13.67%	0.625%
52	10.762	1669	1678	1681	rVV3	387561	1273548	18.44%	0.843%
53	10.799	1681	1685	1687	rVV2	447797	715011	10.35%	0.473%
54	10.826	1687	1690	1693	rVV	623021	934844	13.54%	0.619%
55	10.853	1693	1695	1698	rVV	535532	755542	10.94%	0.500%
56	10.874	1698	1699	1702	rVV3	443297	539175	7.81%	0.357%
57	10.922	1702	1708	1711	rVV3	712681	1534021	22.21%	1.015%
58	10.960	1711	1715	1723	rVV	2561976	5172751	74.90%	3.424%
59	11.045	1723	1731	1734	rVV2	904974	2121430	30.72%	1.404%
60	11.083	1734	1738	1742	rVV	1064877	1869254	27.07%	1.237%
61	11.126	1742	1746	1754	rVV7	1026752	3080751	44.61%	2.039%
62	11.184	1754	1757	1763	rVV	1859388	3001690	43.47%	1.987%
63	11.238	1763	1767	1771	rVV	2319900	3277915	47.47%	2.170%
64	11.286	1771	1776	1787	rVV2	3755336	6905954	100.00%	4.571%
65	11.388	1787	1795	1798	rVV9	785329	2430746	35.20%	1.609%
66	11.420	1798	1801	1804	rVV	699255	1277374	18.50%	0.846%
67	11.457	1804	1808	1814	rVV5	685723	2016026	29.19%	1.334%
68	11.516	1814	1819	1829	rVV2	964499	3187725	46.16%	2.110%
69	11.586	1829	1832	1840	rVV5	606735	1962607	28.42%	1.299%
70	11.682	1840	1850	1856	rVV2	1317516	3543110	51.31%	2.345%
71	11.751	1856	1863	1868	rVV5	749249	2443651	35.38%	1.618%
72	11.800	1869	1872	1877	rVV5	563296	1272158	18.42%	0.842%
73	11.848	1877	1881	1888	rVV3	552433	1711699	24.79%	1.133%
74	11.896	1889	1890	1894	rVV4	449846	717592	10.39%	0.475%
75	11.933	1894	1897	1902	rVV4	478542	1078513	15.62%	0.714%
76	11.997	1902	1909	1912	rVV7	419113	1265289	18.32%	0.838%
77	12.051	1912	1919	1921	rVV9	451631	1242309	17.99%	0.822%
78	12.078	1921	1924	1927	rVV3	482064	868189	12.57%	0.575%
79	12.115	1929	1931	1939	rVV6	467149	1259240	18.23%	0.834%
80	12.222	1941	1951	1965	rVV4	832054	3379209	48.93%	2.237%
81	12.324	1965	1970	1977	rVV	1412931	2909857	42.14%	1.926%
82	12.383	1977	1981	1985	rVV2	571124	1134939	16.43%	0.751%
83	12.441	1985	1992	1996	rVV2	581757	1582198	22.91%	1.047%
84	12.484	1996	2000	2003	rVV2	463525	932197	13.50%	0.617%
85	12.538	2003	2010	2016	rVV7	505525	1764740	25.55%	1.168%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.623	2017	2026	2035	rVV	1063319	3139713	45.46%	2.078%
87	12.709	2037	2042	2051	rVV5	1044929	2924402	42.35%	1.936%
88	12.789	2051	2057	2071	rVV3	524663	1902523	27.55%	1.259%
89	12.885	2071	2075	2080	rVV5	183148	435098	6.30%	0.288%
90	12.944	2080	2086	2092	rVV3	426886	985067	14.26%	0.652%
91	13.019	2092	2100	2108	rVB7	624391	1510935	21.88%	1.000%
92	13.147	2117	2124	2129	rVV3	538694	1459378	21.13%	0.966%
93	13.201	2129	2134	2145	rVV8	506878	1835491	26.58%	1.215%
94	13.287	2145	2150	2154	rVV6	252207	617922	8.95%	0.409%
95	13.351	2154	2162	2169	rVV3	626683	1670878	24.19%	1.106%
96	13.426	2169	2176	2191	rVV3	257154	1205212	17.45%	0.798%
97	13.581	2200	2205	2220	rVB7	172289	528535	7.65%	0.350%
98	14.142	2286	2310	2323	rVV7	1085498	3564946	51.62%	2.360%
99	14.260	2323	2332	2338	rVV2	190493	591552	8.57%	0.392%
100	14.367	2347	2352	2370	rVB2	156115	639169	9.26%	0.423%

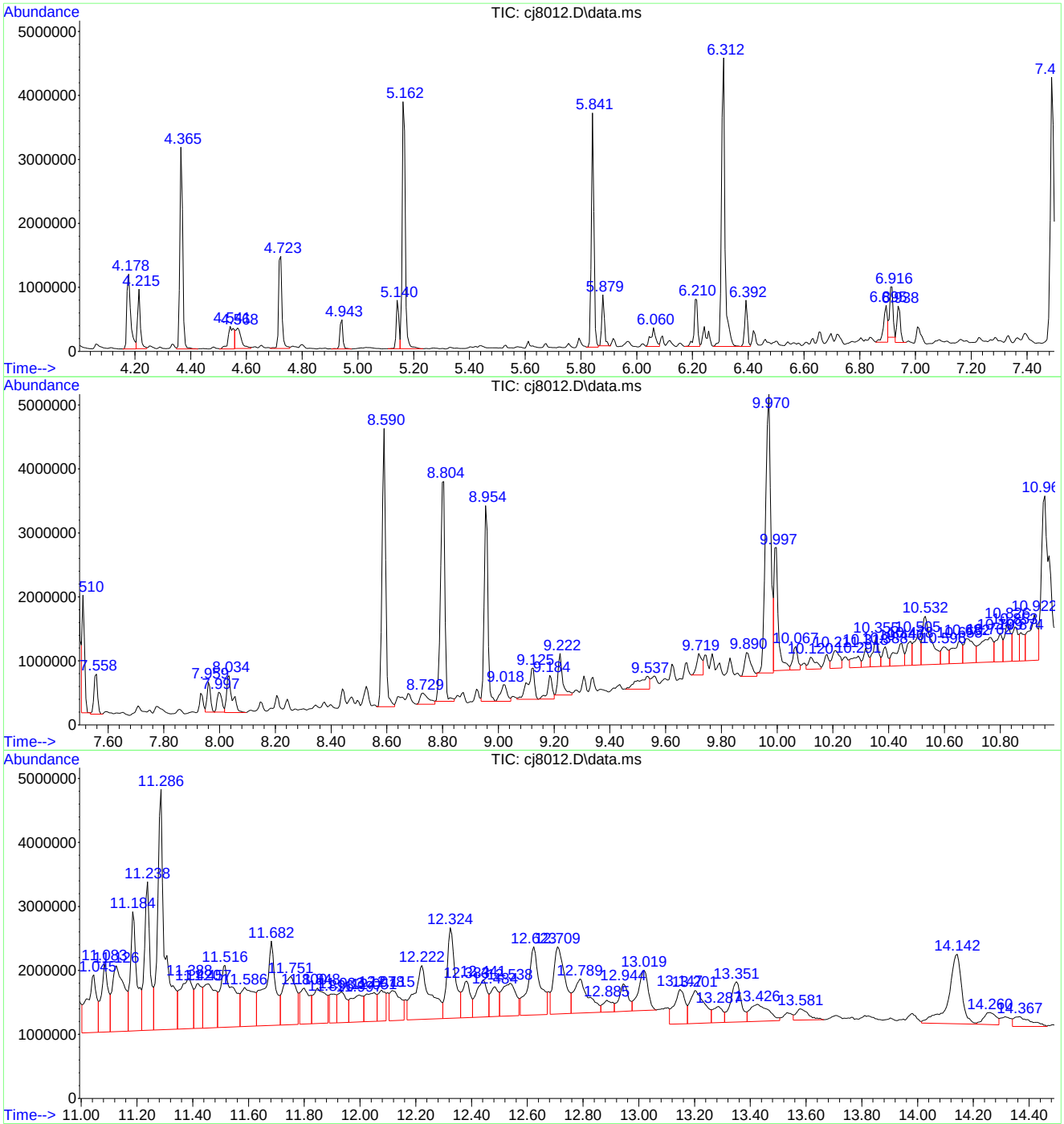
Sum of corrected areas: 151070664

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

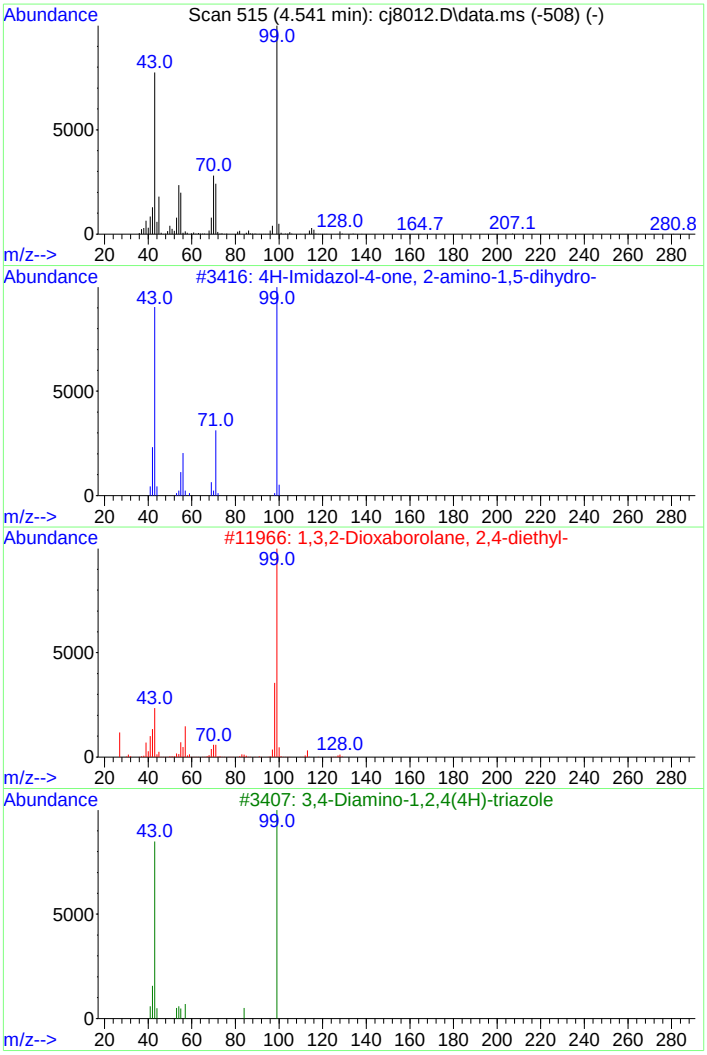
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

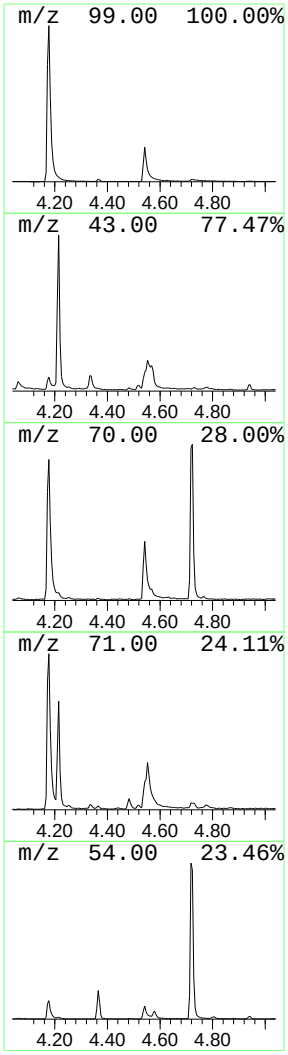
****

Peak Number 1 Unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.541	9.51 ppm	524550	1,4-Dichlorobenzene-d4a	4.365

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Imidazol-4-one, 2-amino-1,5-d...	99	C3H5N3O	000503-86-6	53
2	1,3,2-Dioxaborolane, 2,4-diethyl-	128	C6H13BO2	057633-63-3	43
3	3,4-Diamino-1,2,4(4H)-triazole	99	C2H5N5	038104-45-9	43
4	2(3H)-Furanone, 5-ethyldihydro-5...	128	C7H12O2	002865-82-9	38
5	3,5-Diamino-1,2,4-triazole	99	C2H5N5	001455-77-2	37





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

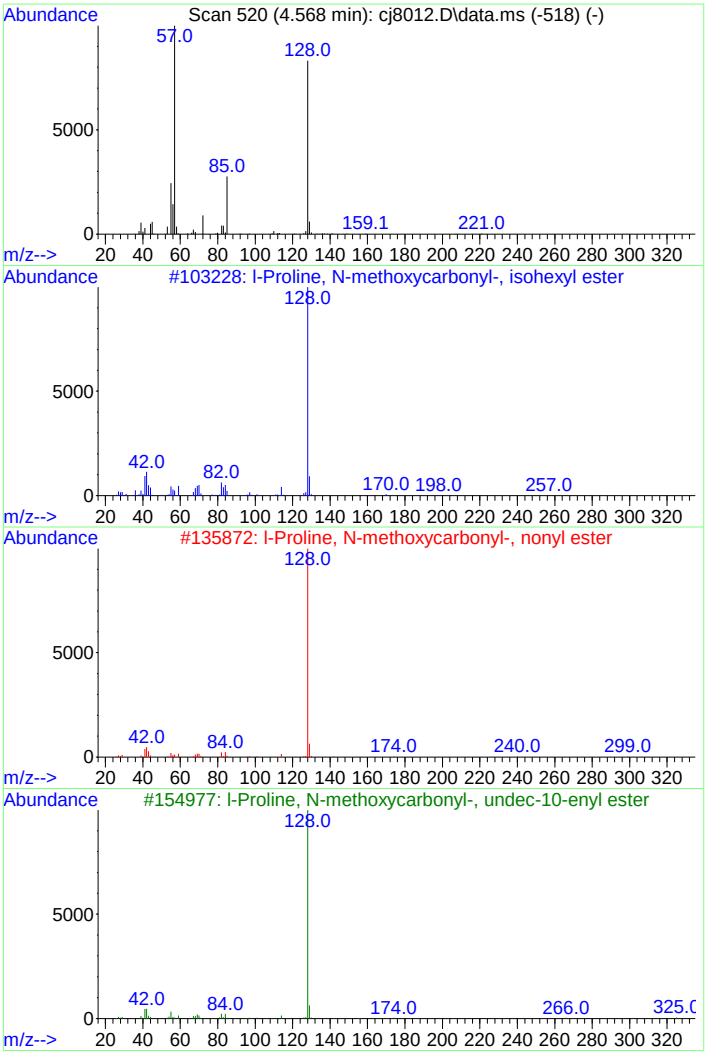
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

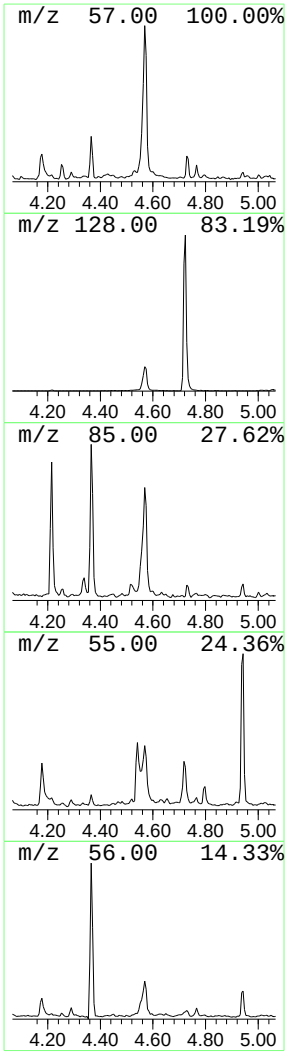
****

Peak Number 2 Unknown Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.568	8.05 ppm	443972	1,4-Dichlorobenzene-d4a	4.365

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	l-Proline, N-methoxycarbonyl-, i...	257	C13H23NO4	1000314-40-2	33
2	l-Proline, N-methoxycarbonyl-, n...	299	C16H29NO4	1000313-76-6	25
3	l-Proline, N-methoxycarbonyl-, u...	325	C18H31NO4	1000313-76-8	25
4	Nipecotic acid	129	C6H11NO2	000498-95-3	9
5	2,4(1H,3H)-Pyrimidinedione, 5-hy...	128	C4H4N2O3	020636-41-3	9





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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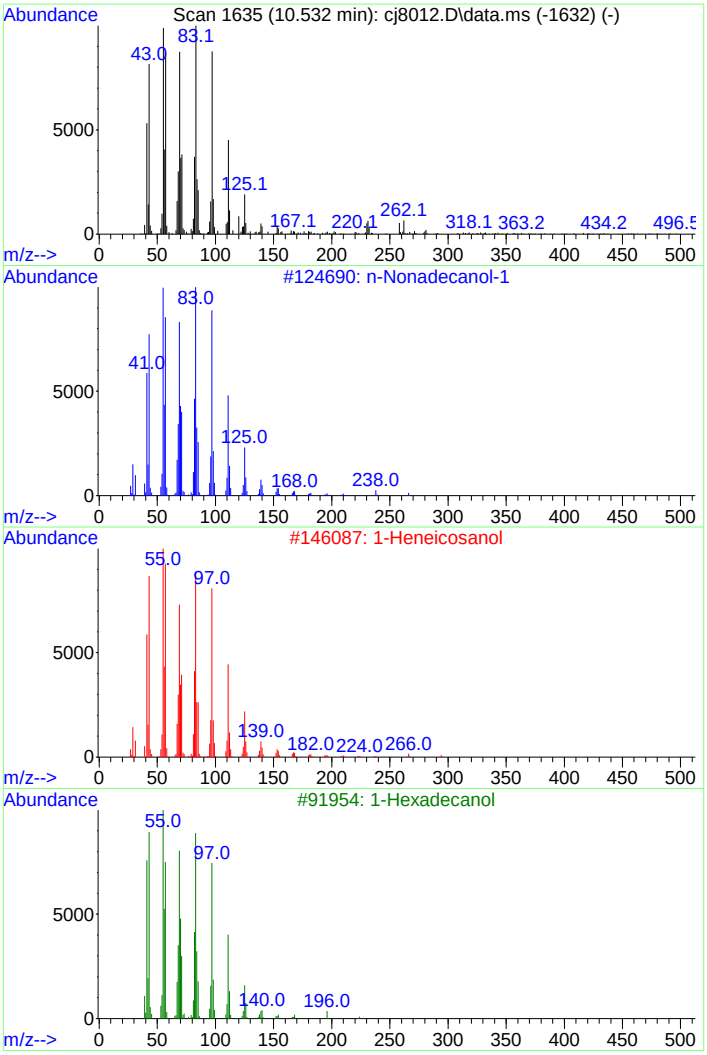
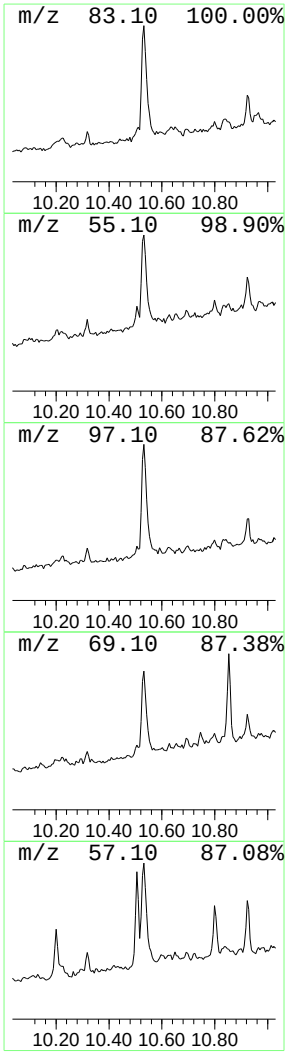
Peak Number 3 Unknown alcohol Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.532	11.66 ppm	1727300	Chrysene-d12a	9.970

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Nonadecanol-1	284	C19H40O	001454-84-8	95
2	1-Heneicosanol	312	C21H44O	015594-90-8	93
3	1-Hexadecanol	242	C16H34O	036653-82-4	90
4	Behenic alcohol	326	C22H46O	000661-19-8	90
5	Fumaric acid, octadecyl 2,2,3,3,...	582	C27H42F8O4	1000348-79-4	87





Library Search Compound Report

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Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
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Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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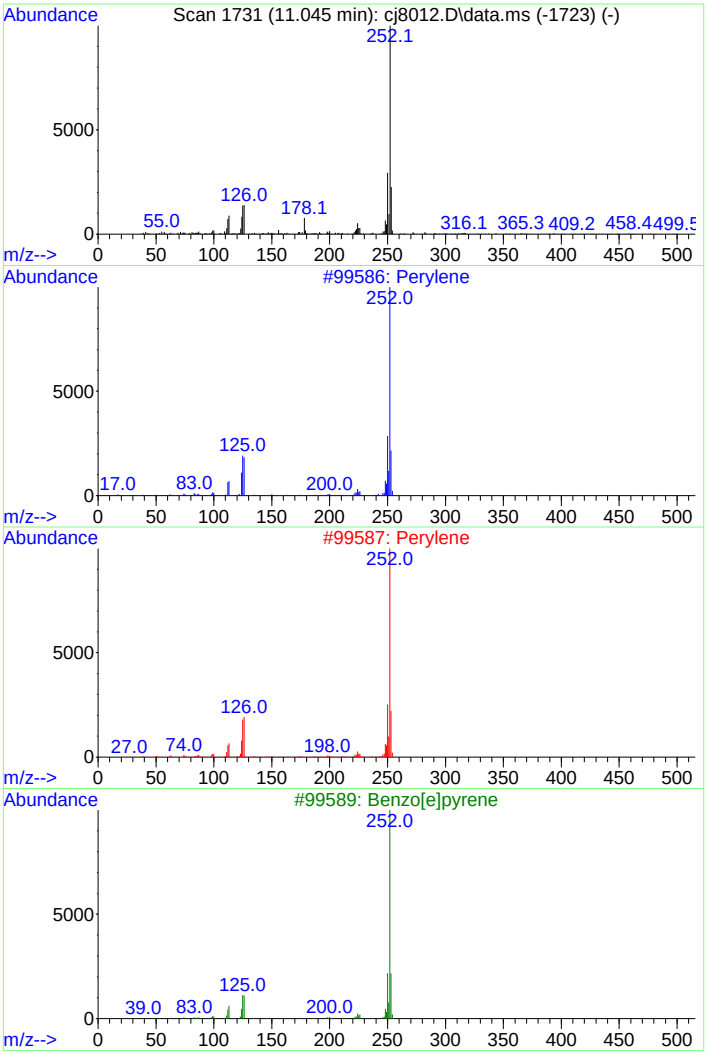
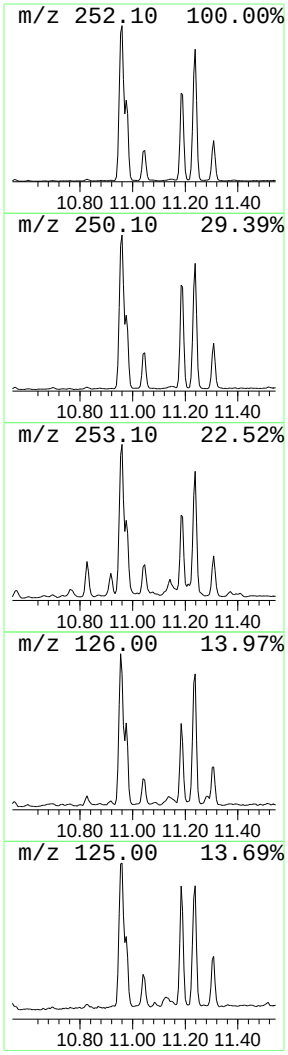
Peak Number 4 Unknown PAH substance Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.045	12.29 ppm	2121430	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	98
2	Perylene	252	C20H12	000198-55-0	97
3	Benzo[e]pyrene	252	C20H12	000192-97-2	97
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
5	Benzo[e]pyrene	252	C20H12	000192-97-2	95





Library Search Compound Report

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Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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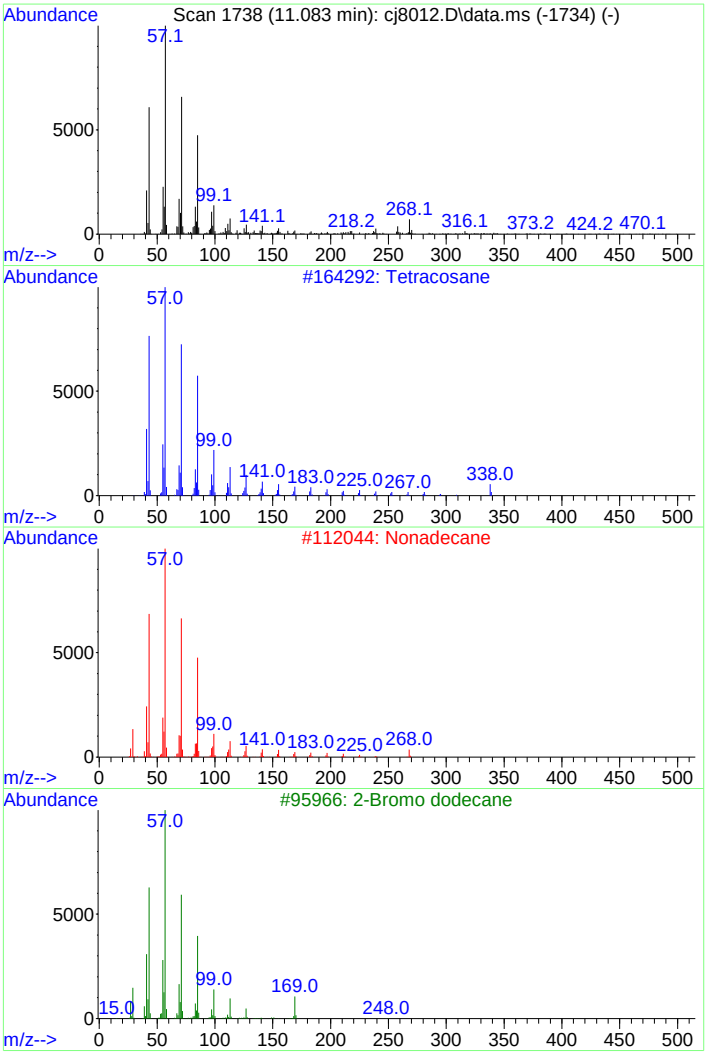
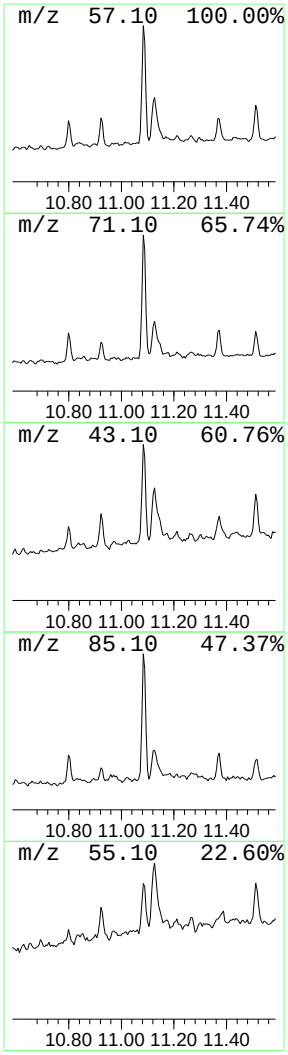
Peak Number 5 Alkane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.083	10.83 ppm	1869250	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	93
2	Nonadecane	268	C19H40	000629-92-5	91
3	2-Bromo dodecane	248	C12H25Br	013187-99-0	90
4	Tetracosane	338	C24H50	000646-31-1	87
5	Octacosane	394	C28H58	000630-02-4	87





Library Search Compound Report

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Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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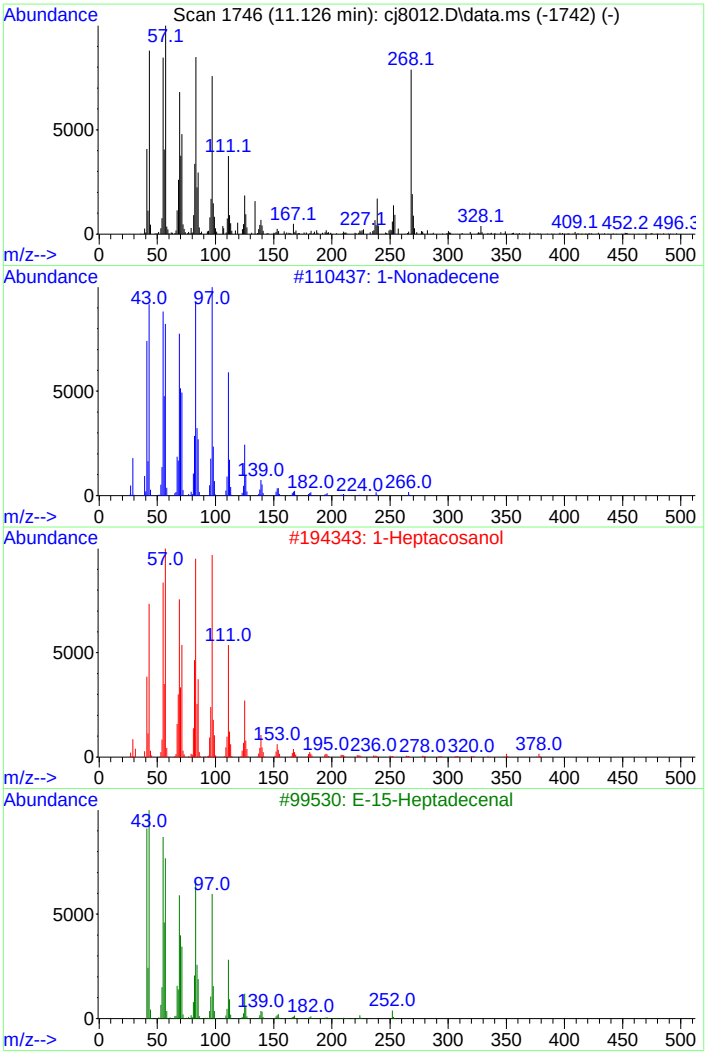
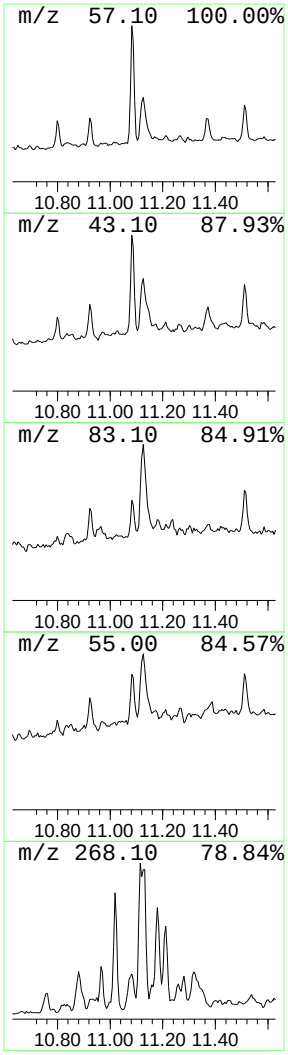
Peak Number 6 Unknown alcohol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.126	17.84 ppm	3080750	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Nonadecene	266	C19H38	018435-45-5	96
2	1-Heptacosanol	396	C27H56O	002004-39-9	91
3	E-15-Heptadecenal	252	C17H32O	1000130-97-9	91
4	Heptacosyl acetate	438	C29H58O2	1000351-78-2	87
5	Cyclopentadecane	210	C15H30	000295-48-7	87





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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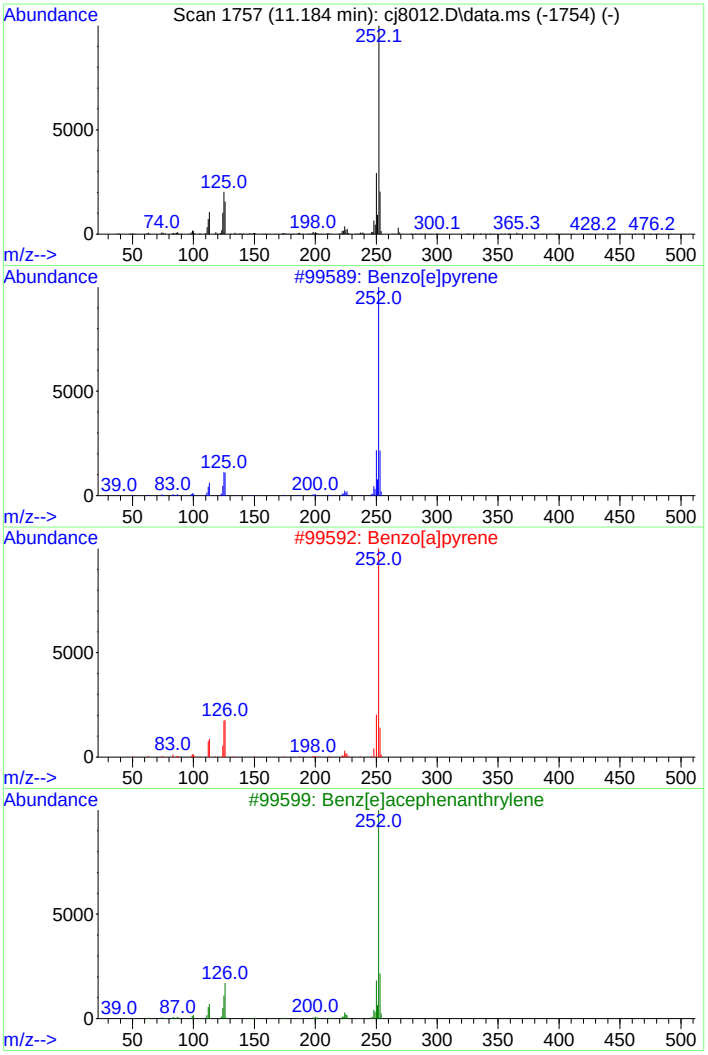
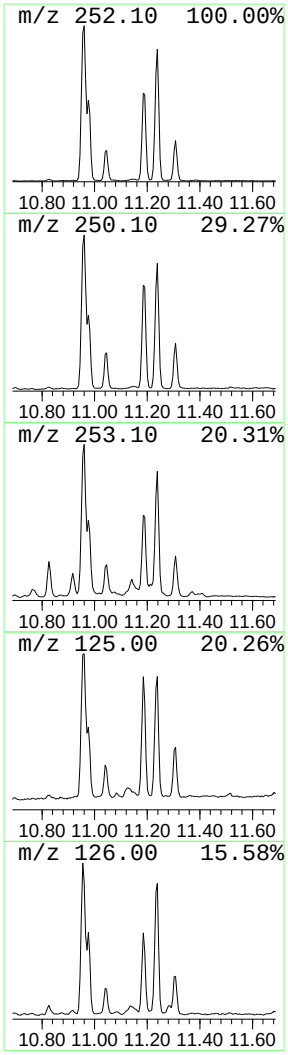
Peak Number 7 Unknown PAH substance Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.185	17.39 ppm	3001690	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[a]pyrene	252	C20H12	000050-32-8	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Perylene	252	C20H12	000198-55-0	90
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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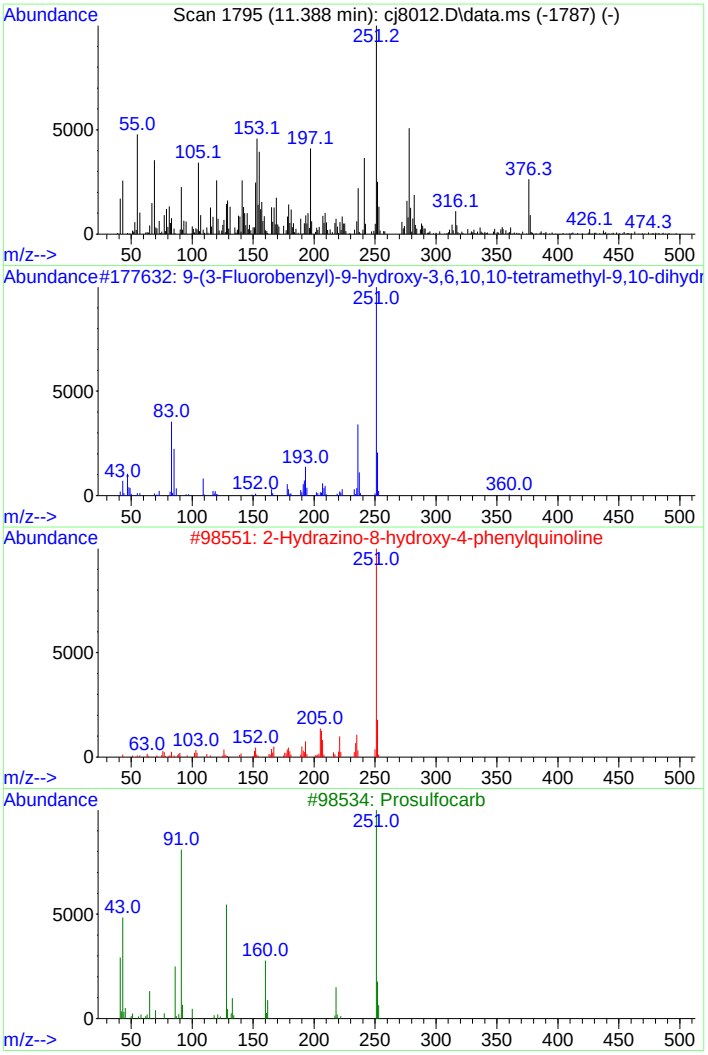
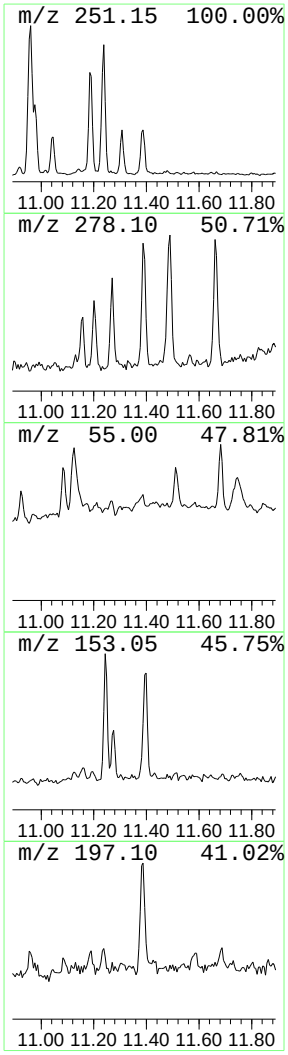
Peak Number 8 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.388	14.08 ppm	2430750	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-(3-Fluorobenzyl)-9-hydroxy-3,6...	360	C25H25FO	1000110-43-4	18
2	2-Hydrazino-8-hydroxy-4-phenylqu...	251	C15H13N3O	104926-85-4	18
3	Prosulfocarb	251	C14H21NOS	052888-80-9	14
4	6H-Indolo[2,3-b]quinoxaline, 9-f...	251	C15H10FN3	1000319-60-2	14
5	2-(2-Benzothiazolyl)benzofurane	251	C15H9NOS	069976-47-2	14





Library Search Compound Report

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Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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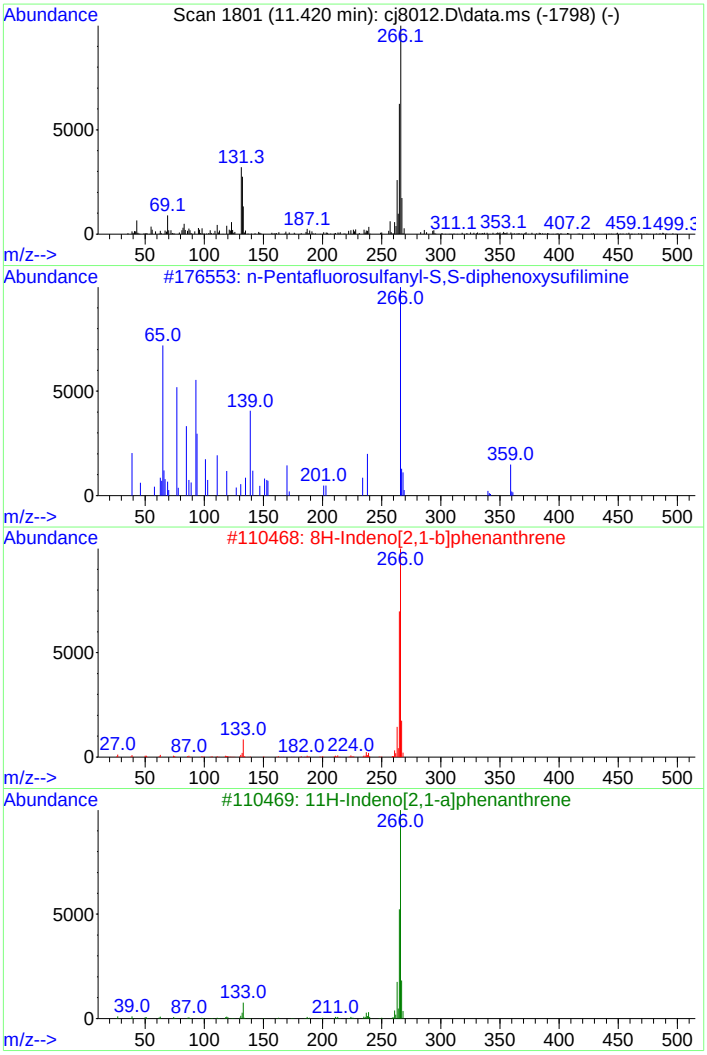
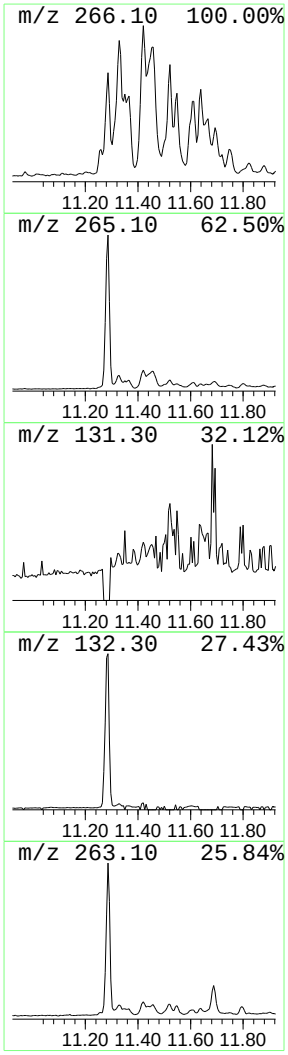
Peak Number 9 Unknown Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.420	7.40 ppm	1277370	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Pentafluorosulfanyl-S,S-diphen...	359	C12H10F5NO2S2	080039-31-2	80
2	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	68
3	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	62
4	4H-1-Benzopyran-4-one, 3-hydroxy...	266	C17H14O3	078396-37-9	59
5	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	58





Library Search Compound Report

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Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
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Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
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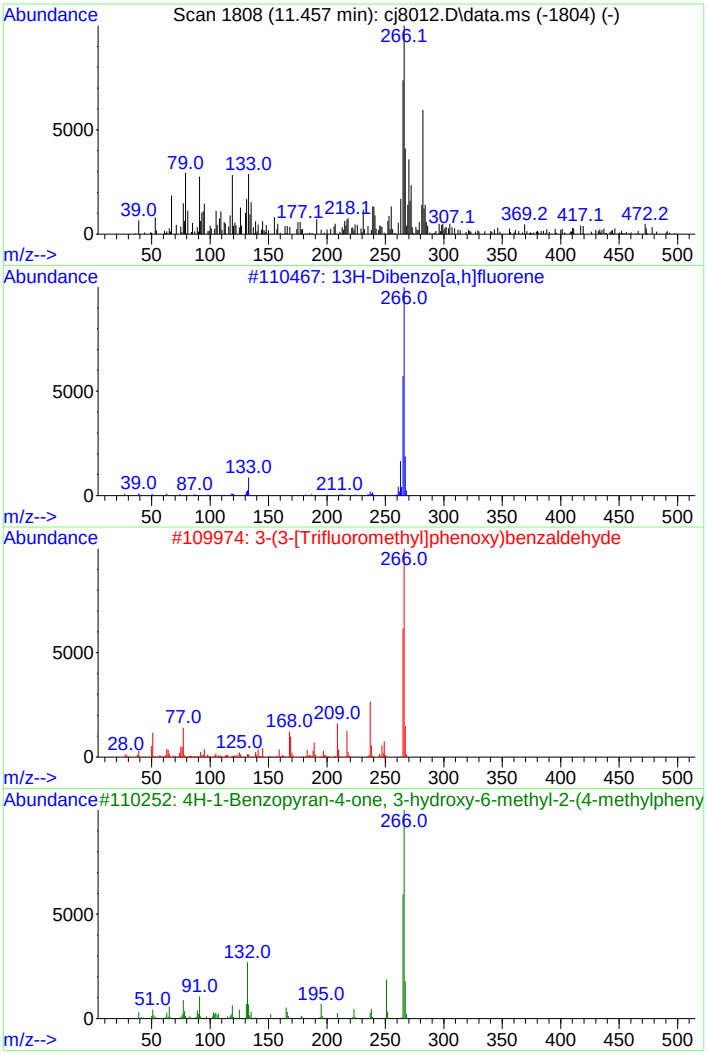
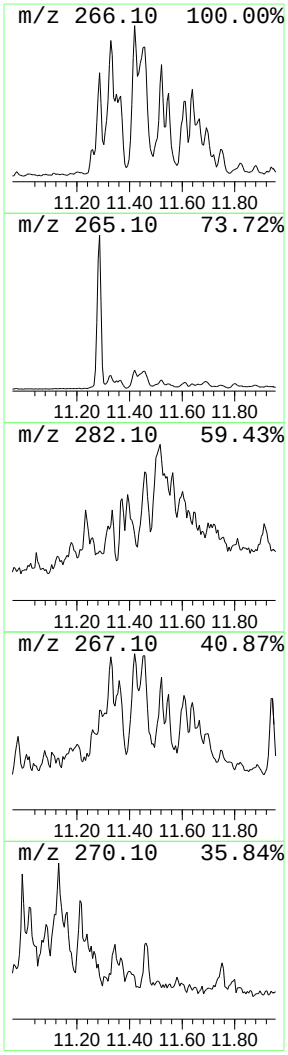
Peak Number 10 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.457	11.68 ppm	2016030	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	43
2	3-(3-[Trifluoromethyl]phenoxy)be...	266	C14H9F3O2	078725-46-9	43
3	4H-1-Benzopyran-4-one, 3-hydroxy...	266	C17H14O3	078396-37-9	43
4	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	43
5	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	43





Library Search Compound Report

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Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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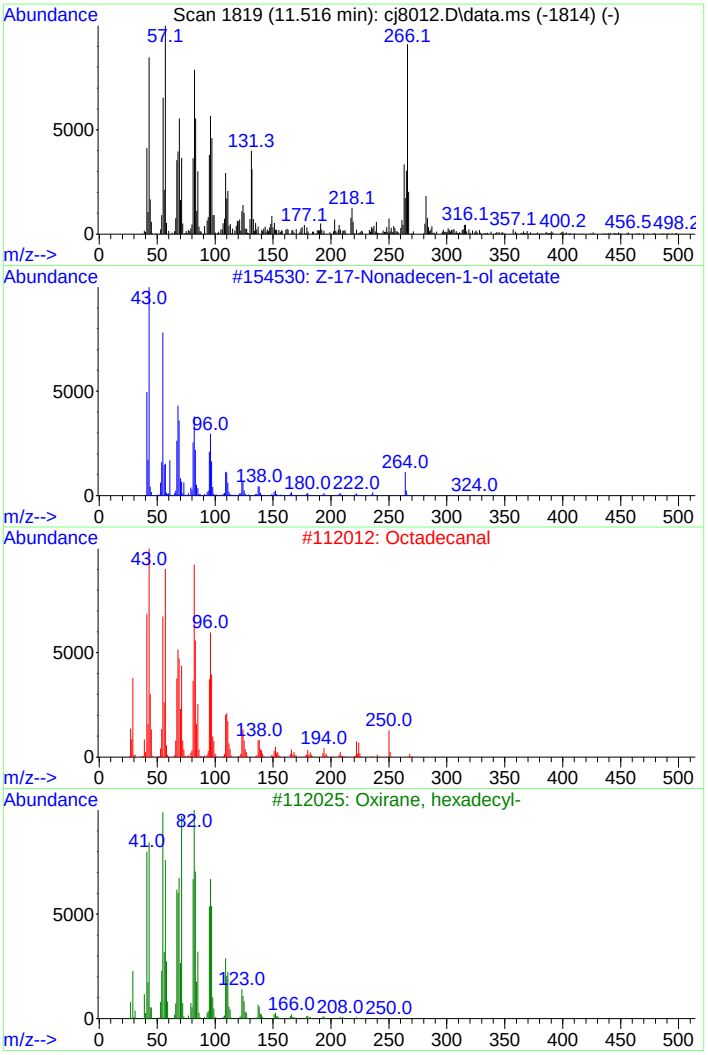
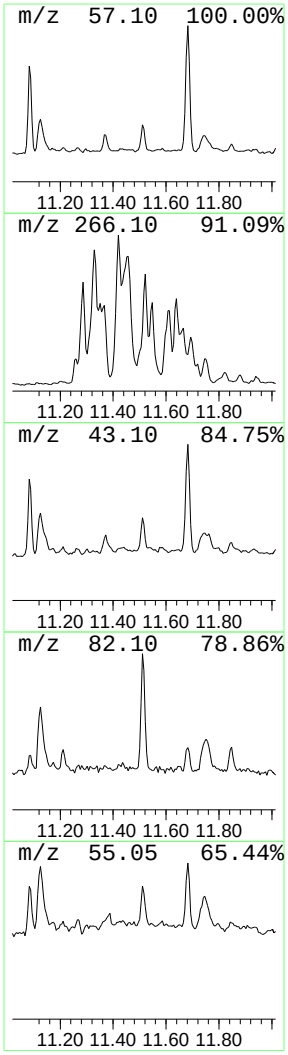
Peak Number 11 Unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.516	18.46 ppm	3187730	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Z-17-Nonadecen-1-ol acetate	324	C21H40O2	1000131-07-9	42
2	Octadecanal	268	C18H36O	000638-66-4	41
3	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	41
4	Benzo[1,2-b:4,3-b']dithiophene, ...	266	C16H10S2	016587-58-9	38
5	Z-10-Octadecen-1-ol acetate	310	C20H38O2	1000131-07-2	38





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Sample : jd91204-1
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ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
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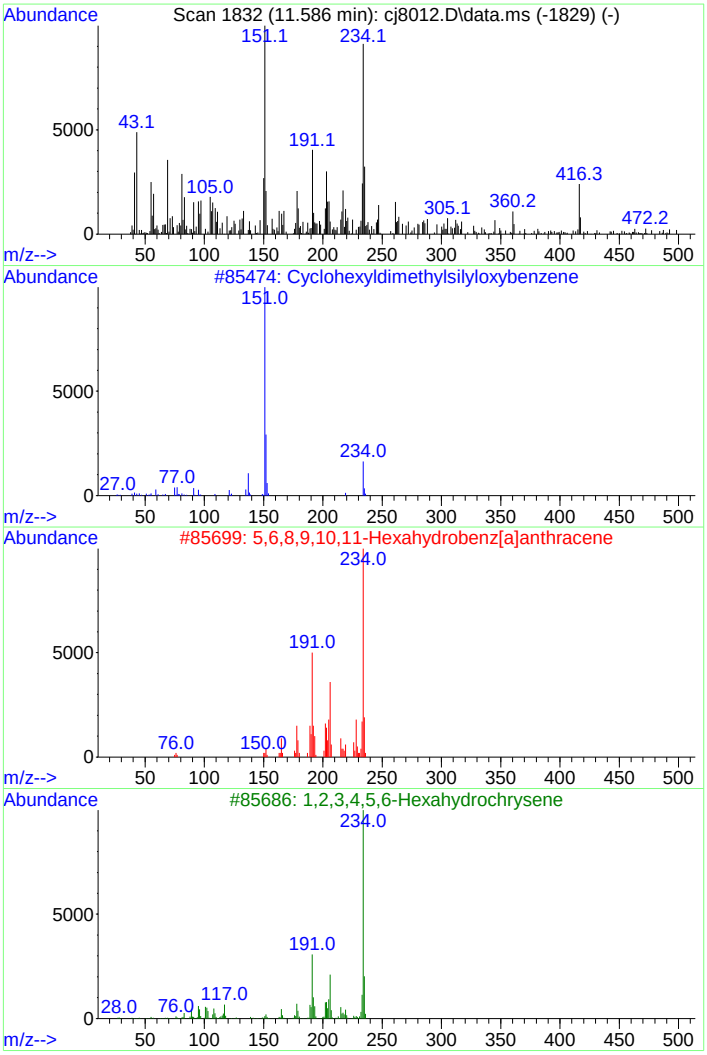
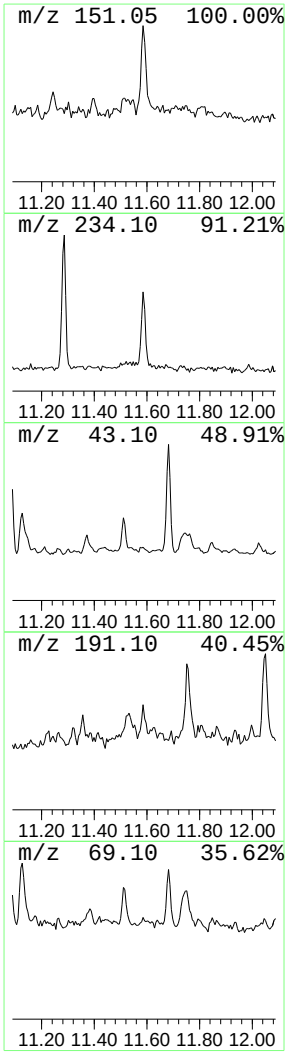
Peak Number 12 Unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.586	11.37 ppm	1962610	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexyldimethylsilyloxybenzene	234	C14H22OSi	1000299-09-8	43
2	5,6,8,9,10,11-Hexahydrobenz[a]an...	234	C18H18	067064-61-3	38
3	1,2,3,4,5,6-Hexahydrochrysene	234	C18H18	002091-91-0	38
4	D-Alanine, N-(2-fluoro-3-trifluo...	489	C26H39F4NO3	1000348-42-6	35
5	D-Alanine, N-(3-fluoro-5-trifluo...	461	C24H35F4NO3	1000347-81-2	27





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Data File : cj8012.D
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Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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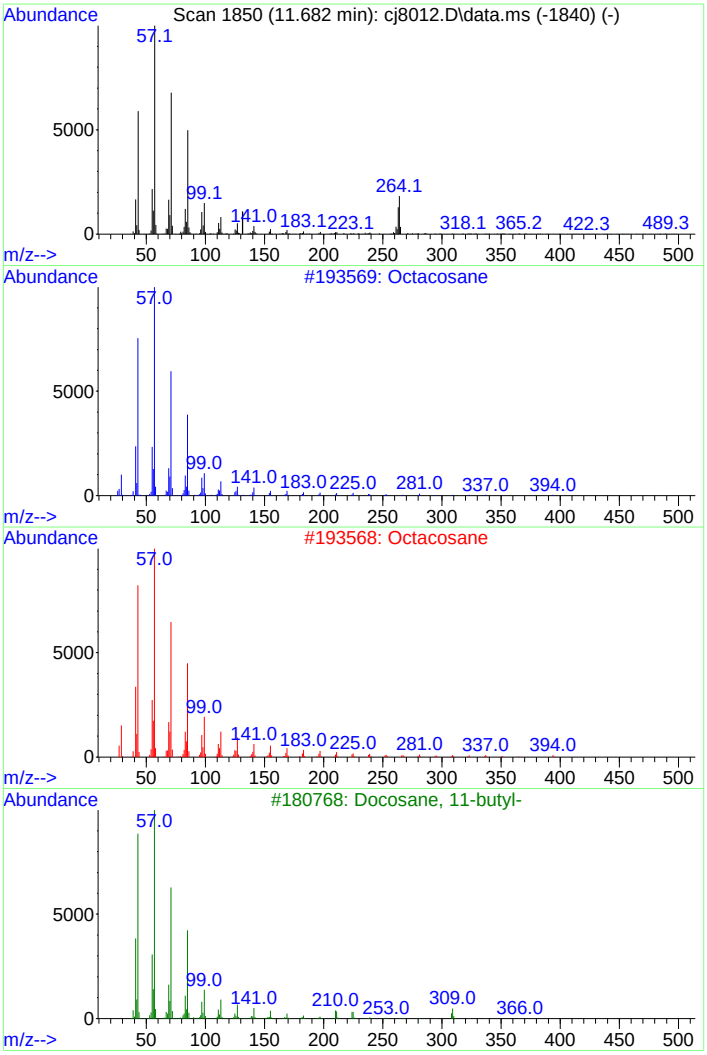
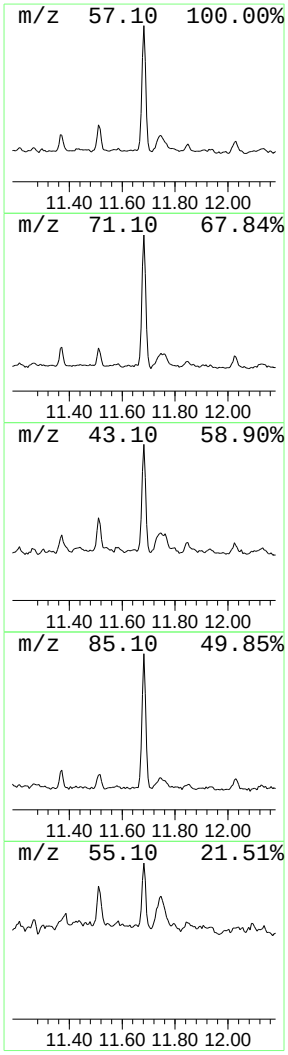
Peak Number 13 Alkane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.682	20.52 ppm	3543110	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	98
2	Octacosane	394	C28H58	000630-02-4	95
3	Docosane, 11-butyl-	366	C26H54	013475-76-8	78
4	Hexadecane	226	C16H34	000544-76-3	70
5	Hexadecane	226	C16H34	000544-76-3	64





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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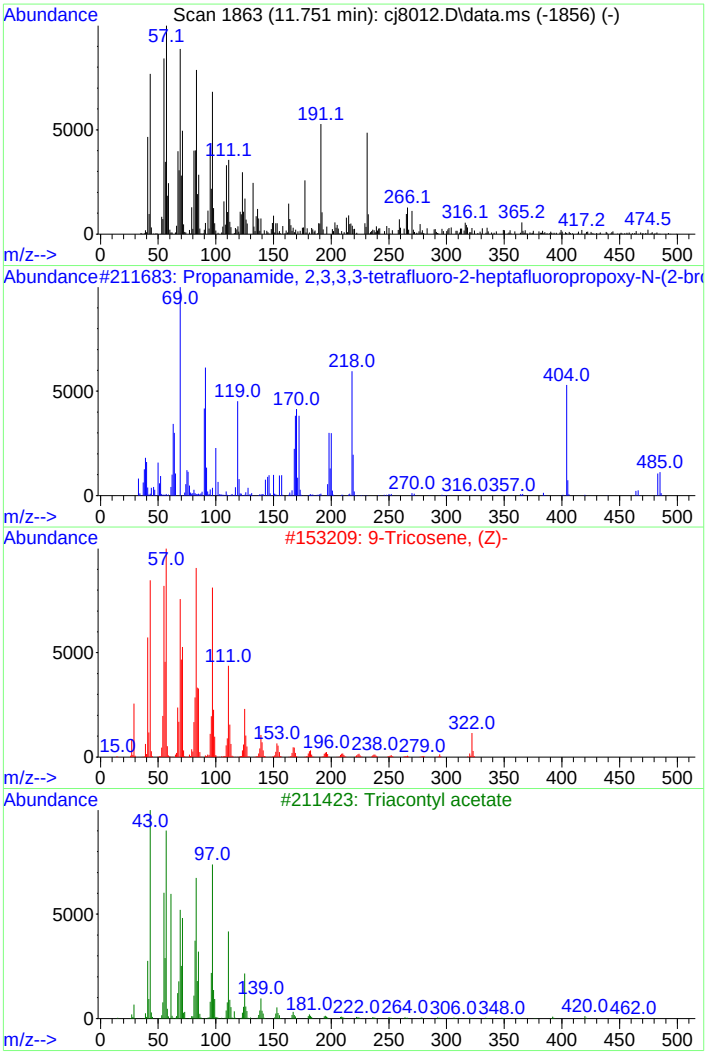
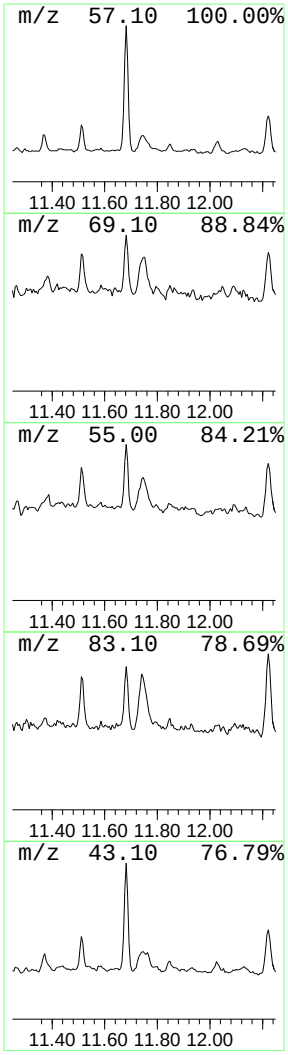
Peak Number 14 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.751	14.15 ppm	2443650	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanamide, 2,3,3,3-tetrafluoro...	483	C12H5BrF11NO2	294195-06-5	91
2	9-Tricosene, (Z)-	322	C23H46	027519-02-4	70
3	Triacontyl acetate	480	C32H64O2	041755-58-2	58
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	55
5	1-Heptacosanol	396	C27H56O	002004-39-9	55





Library Search Compound Report

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Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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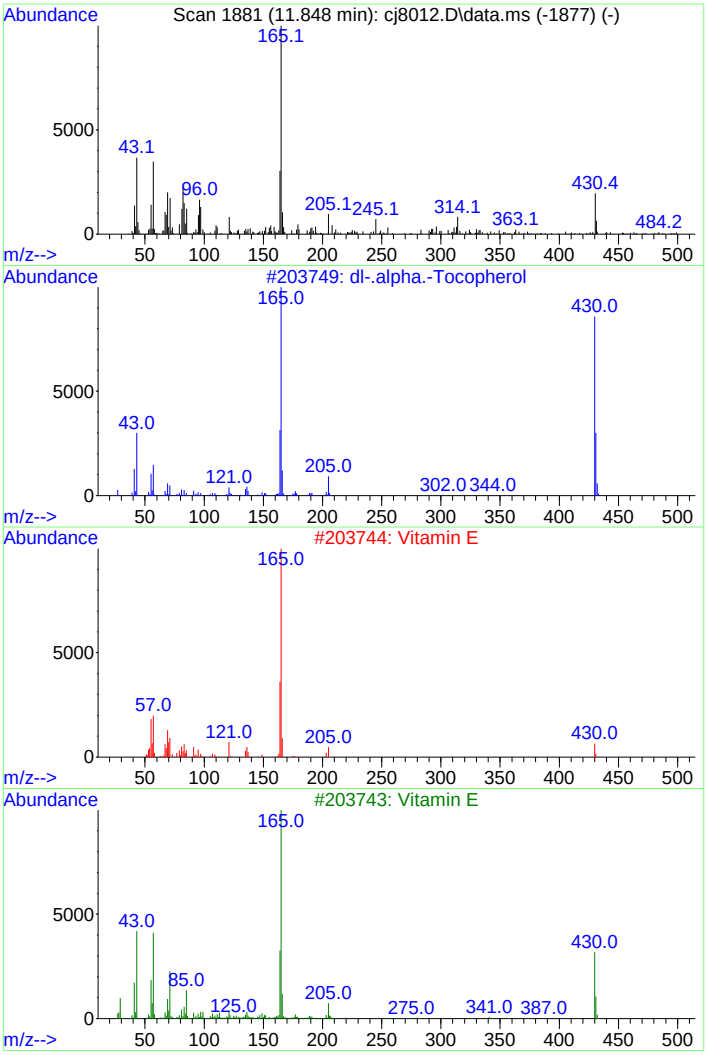
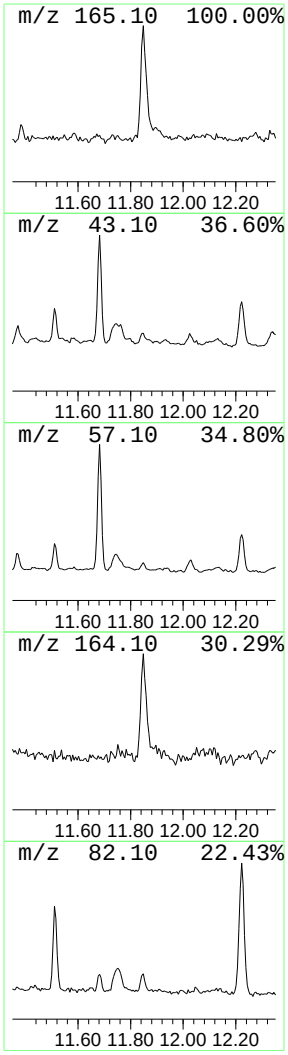
Peak Number 15 Vitamin E Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.848	9.91 ppm	1711700	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	dl-.alpha.-Tocopherol	430	C29H50O2	010191-41-0	91
2	Vitamin E	430	C29H50O2	000059-02-9	91
3	Vitamin E	430	C29H50O2	000059-02-9	89
4	dl-.alpha.-Tocopherol	430	C29H50O2	010191-41-0	87
5	2H-1-Benzopyran-6-ol, 3,4-dihydr...	472	C31H52O3	000058-95-7	72





Library Search Compound Report

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Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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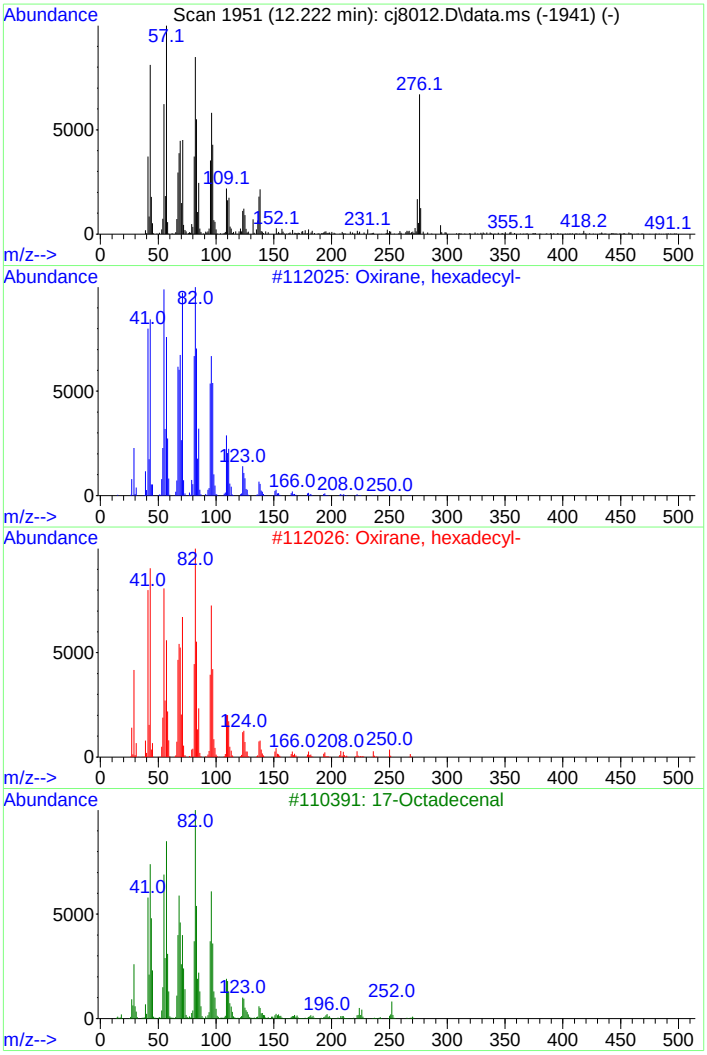
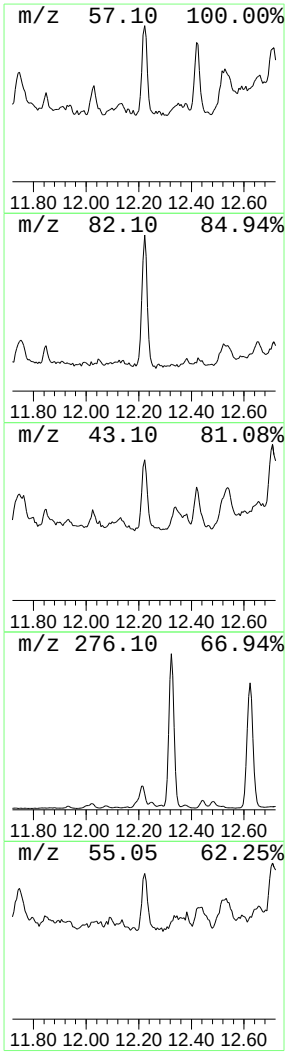
Peak Number 16 Unknown alcohol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.222	19.57 ppm	3379210	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	70
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	70
3	17-Octadecenal	266	C18H34O	056554-86-0	58
4	1,30-Triacontanediol	454	C30H62O2	036645-68-8	58
5	Oleyl Alcohol	268	C18H36O	000143-28-2	53





Library Search Compound Report

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Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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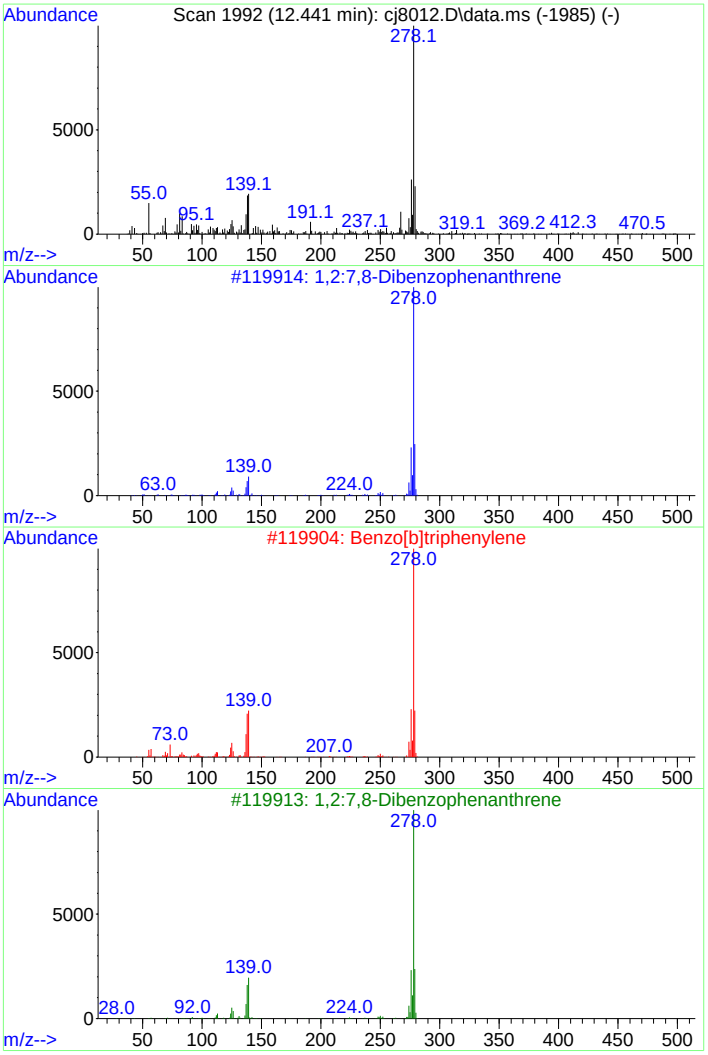
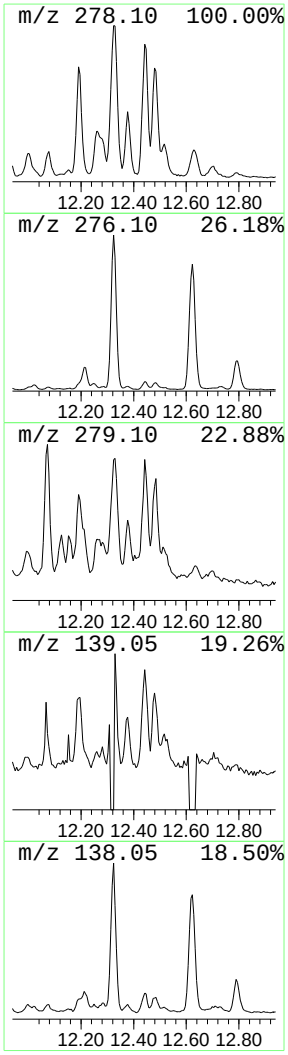
Peak Number 17 Unknown PAH substance Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.441	9.16 ppm	1582200	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	98
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	98
4	Benzo[b]chrysene	278	C22H14	000214-17-5	97
5	Benzo[b]triphenylene	278	C22H14	000215-58-7	96





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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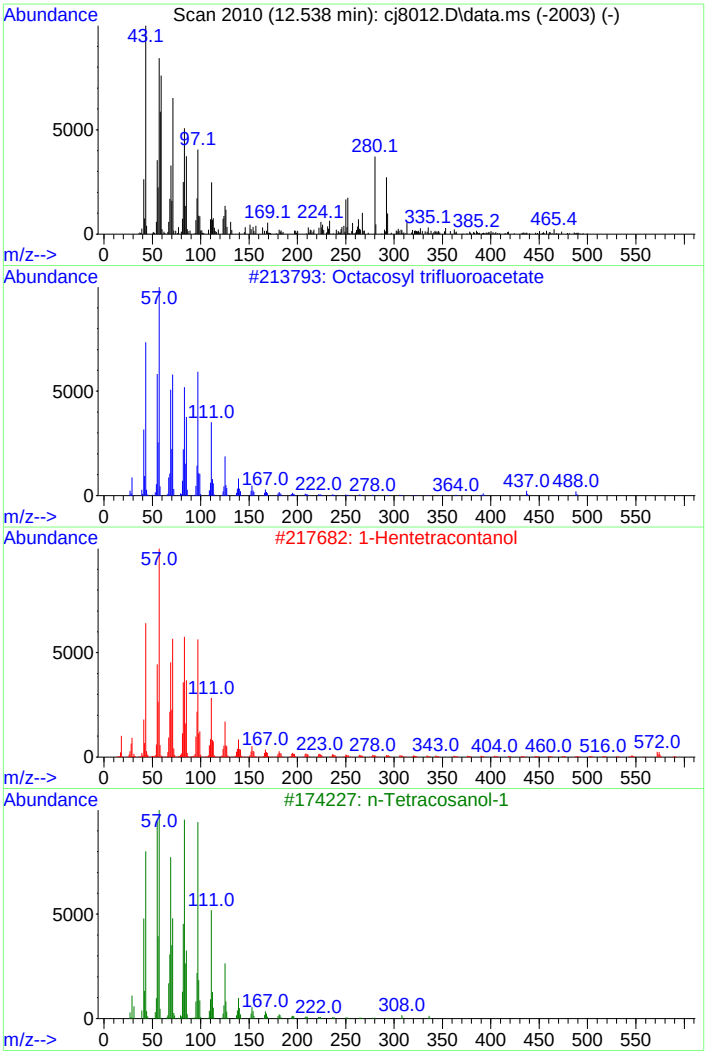
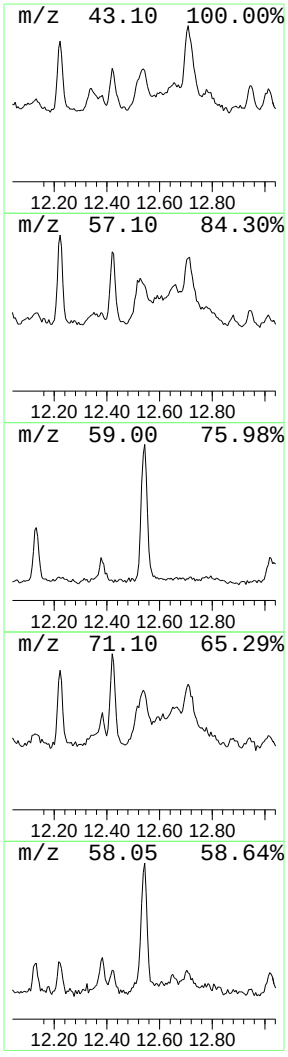
Peak Number 18 Unknown alcohol Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.538	10.22 ppm	1764740	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosyl trifluoroacetate	506	C30H57F3O2	1000351-74-9	46
2	1-Hentetracontanol	593	C41H84O	040710-42-7	46
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	42
4	Octacosanol	410	C28H58O	000557-61-9	42
5	1-Heptacosanol	396	C27H56O	002004-39-9	42





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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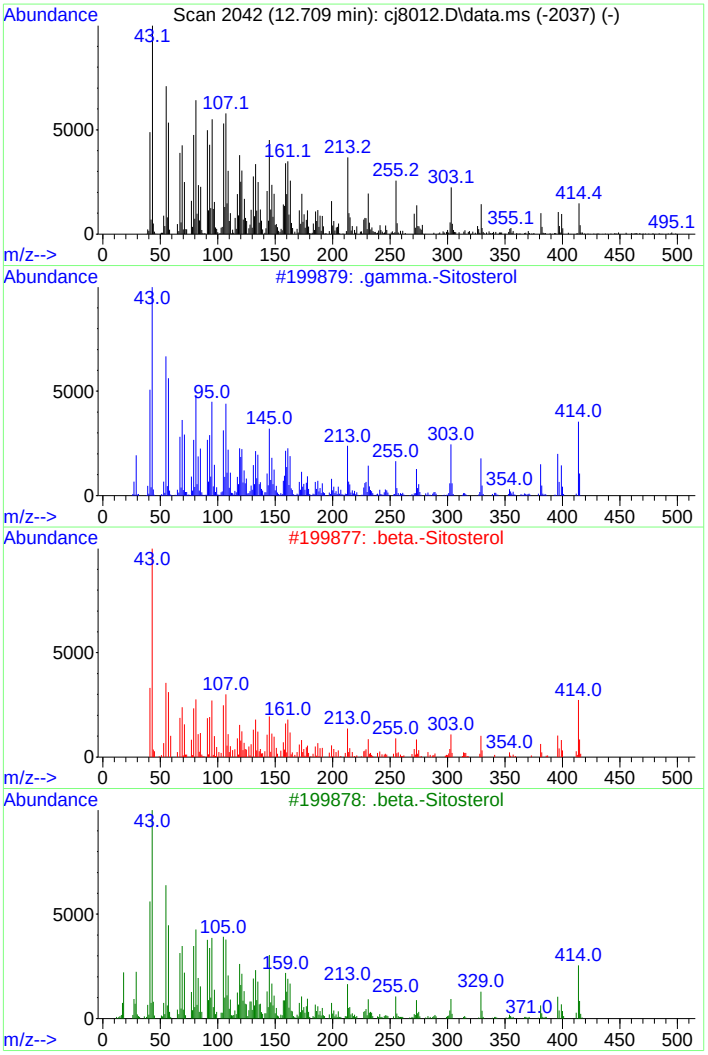
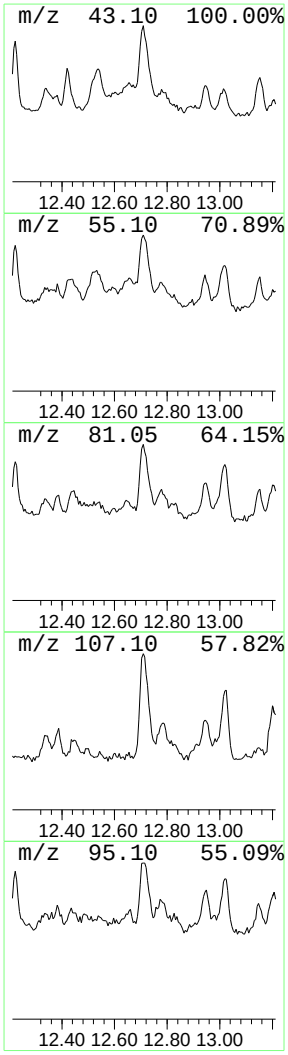
Peak Number 19 Sitosterol Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.709	16.94 ppm	2924400	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	93
4	.gamma.-Sitosterol	414	C29H50O	000083-47-6	86
5	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	53





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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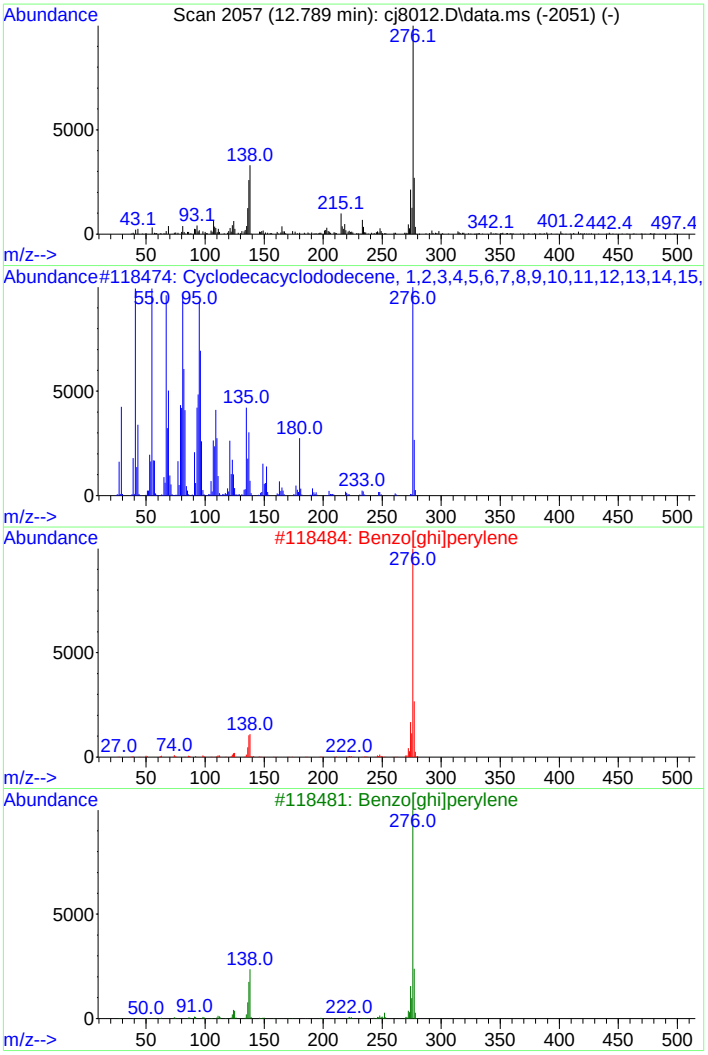
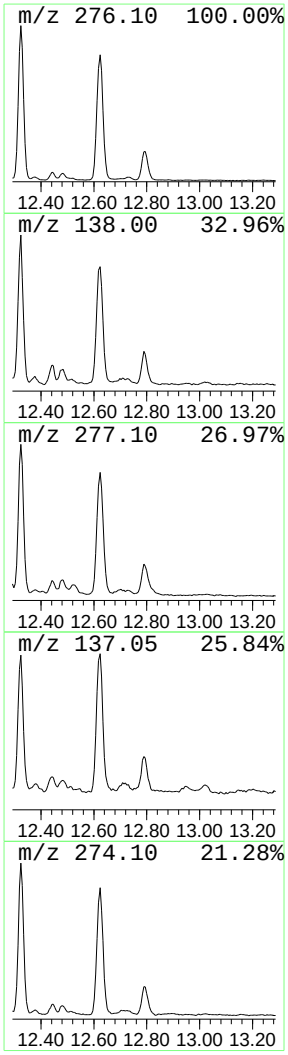
Peak Number 20 Unknown PAH substance Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.789	11.02 ppm	1902520	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclodecacyclododecene, 1,2,3,4,...	276	C20H36	014113-80-5	98
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	93
3	Benzo[ghi]perylene	276	C22H12	000191-24-2	93
4	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	91
5	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	90





Library Search Compound Report

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Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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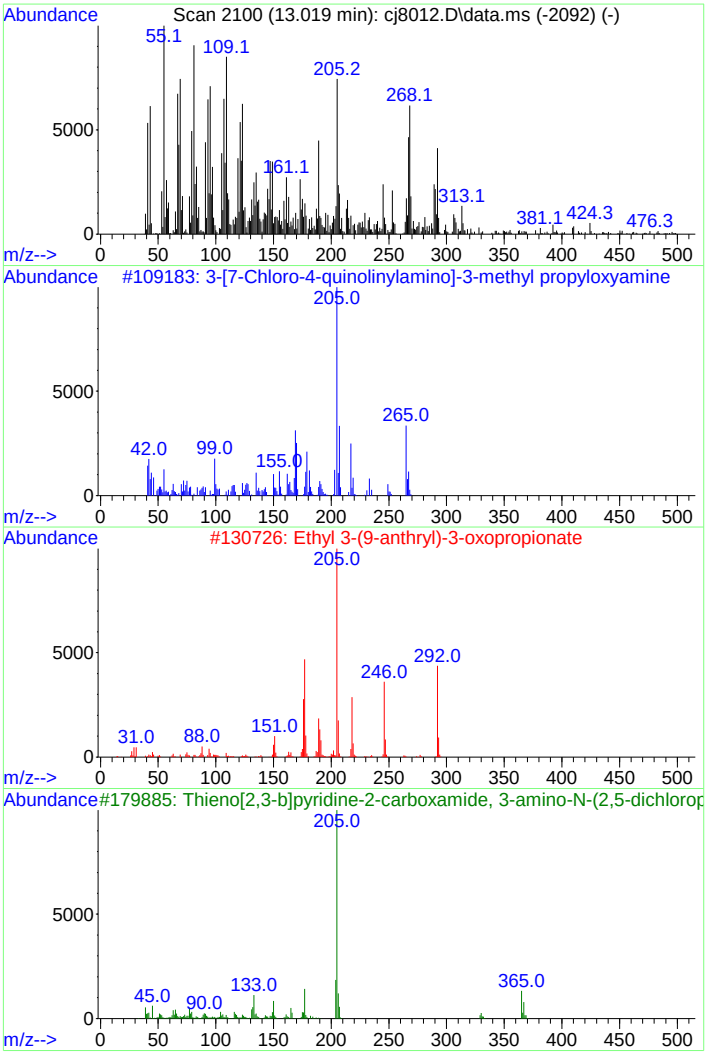
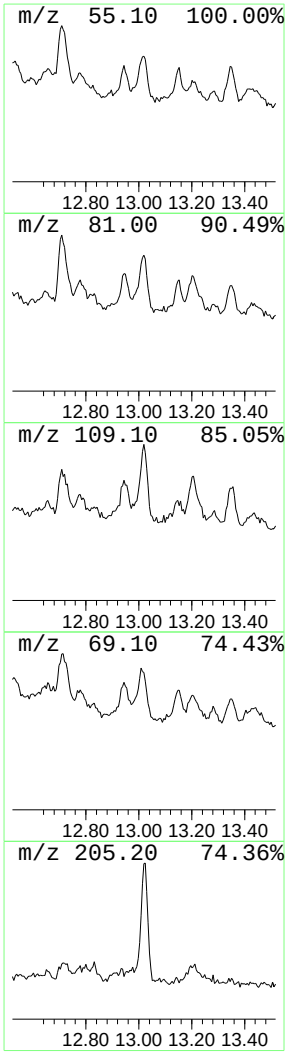
Peak Number 21 Unknown Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.019	8.75 ppm	1510940	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-[7-Chloro-4-quinolinylamino]-3...	265	C13H16ClN3O	031328-07-1	25
2	Ethyl 3-(9-anthryl)-3-oxopropionate	292	C19H16O3	1000233-87-3	25
3	Thieno[2,3-b]pyridine-2-carboxam...	365	C16H13Cl2N3OS	1000316-27-3	25
4	8-Chloro-2,3-dihydrofuro(2,3-b)q...	205	C11H8ClNO	095322-67-1	25
5	trans-Z-.alpha.-Bisabolene epoxide	220	C15H24O	1000131-71-1	25





Library Search Compound Report

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Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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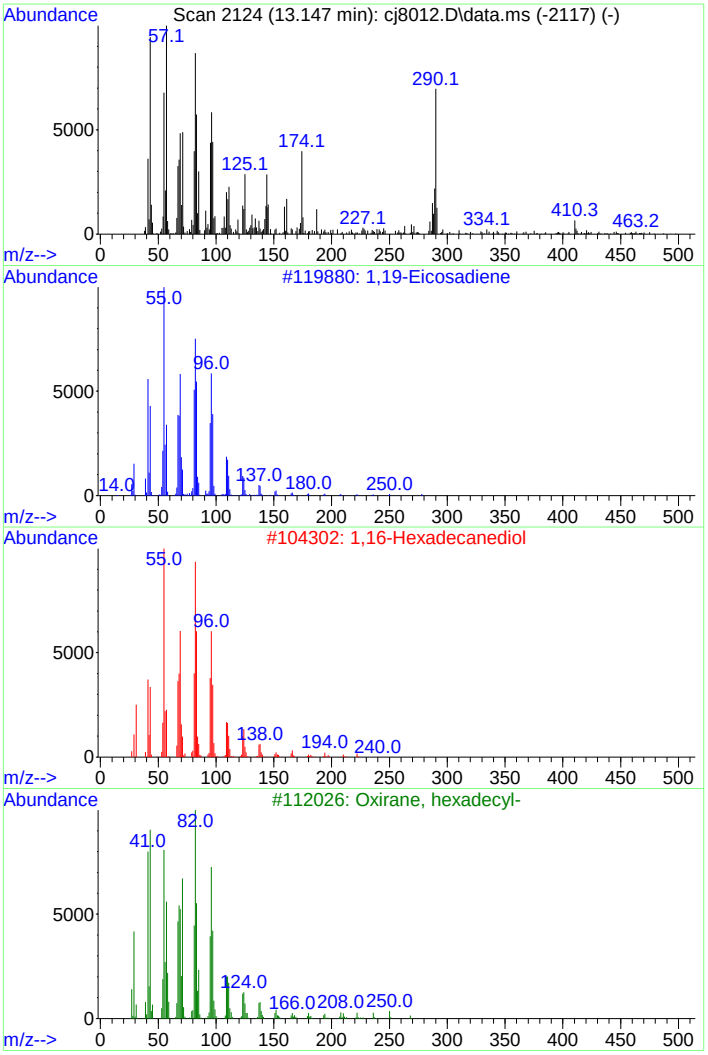
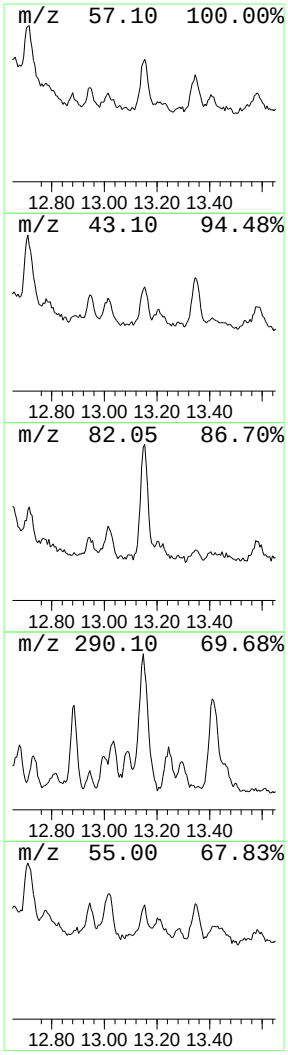
Peak Number 22 Unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.148	8.45 ppm	1459380	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,19-Eicosadiene	278	C20H38	014811-95-1	55
2	1,16-Hexadecanediol	258	C16H34O2	007735-42-4	55
3	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	49
4	Octadecanal	268	C18H36O	000638-66-4	43
5	18-Nonadecen-1-ol	282	C19H38O	1000142-89-2	43





Library Search Compound Report

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Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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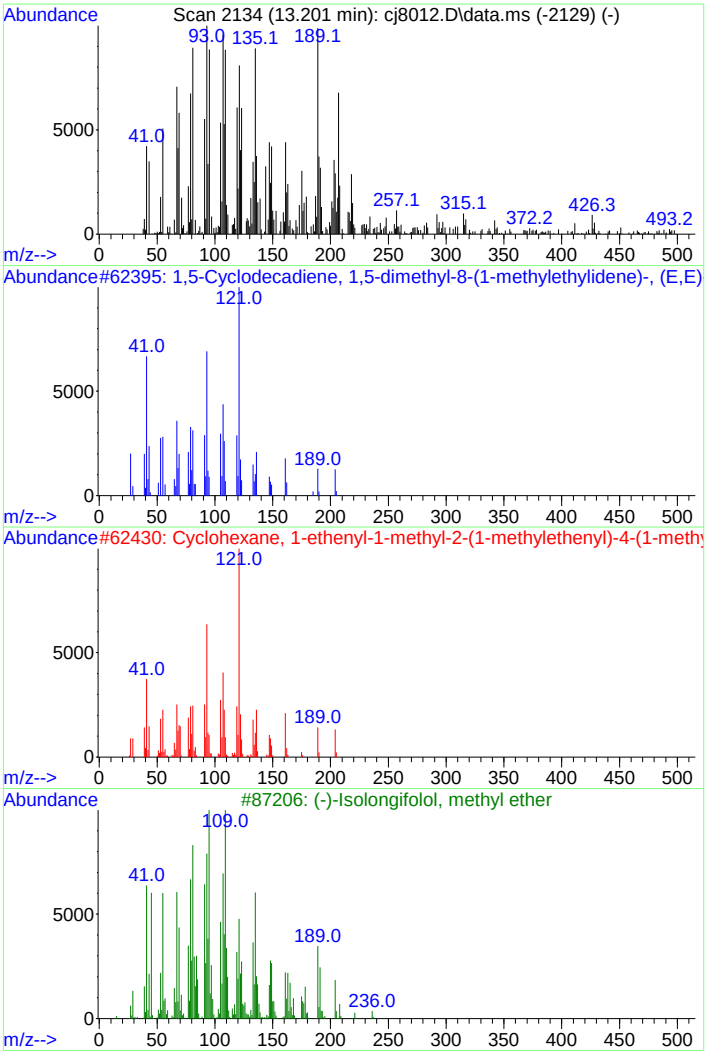
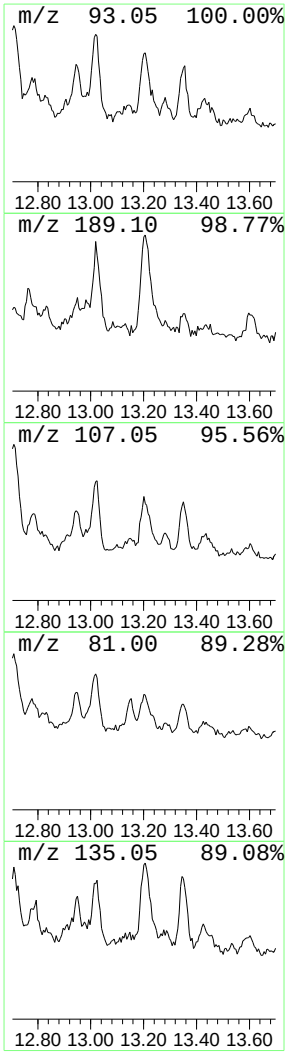
Peak Number 23 Unknown Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.201	10.63 ppm	1835490	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,5-Cyclodecadiene, 1,5-dimethyl...	204	C15H24	015423-57-1	46
2	Cyclohexane, 1-ethenyl-1-methyl-...	204	C15H24	003242-08-8	44
3	(-)-Isolongifolol, methyl ether	236	C16H28O	1000333-80-8	41
4	1-Cycloheptene, 1,4-dimethyl-3-(...	204	C15H24	1000159-38-6	38
5	2-Isopropenyl-4a,8-dimethyl-1,2,...	204	C15H24	1000193-57-0	35





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
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Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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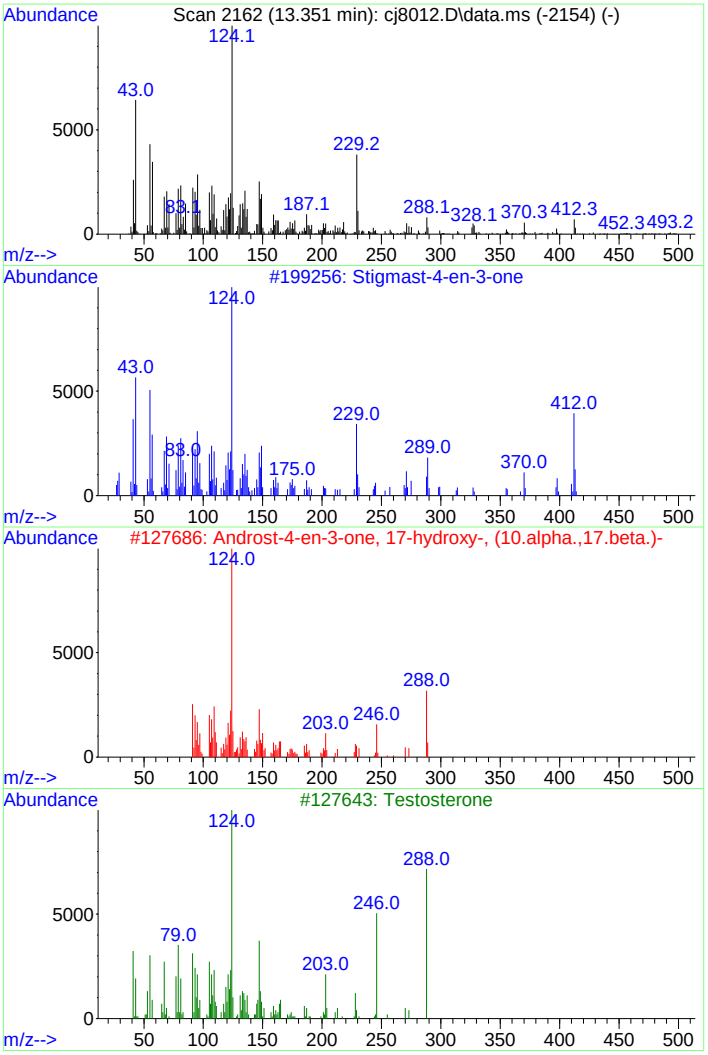
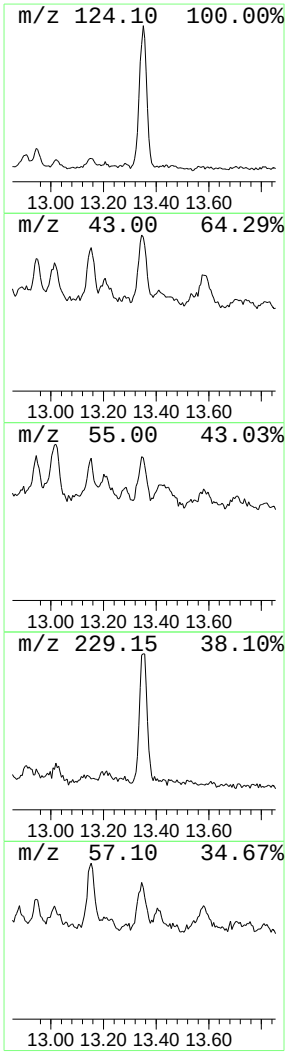
Peak Number 24 Unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.351	9.68 ppm	1670880	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	93
2	Androst-4-en-3-one, 17-hydroxy-,...	288	C19H28O2	000604-39-7	89
3	Testosterone	288	C19H28O2	000058-22-0	55
4	Phenol, 2,6-diamino-	124	C6H8N2O	022440-82-0	35
5	Androst-4-en-3-one, 17-hydroxy-,...	288	C19H28O2	000481-30-1	30





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

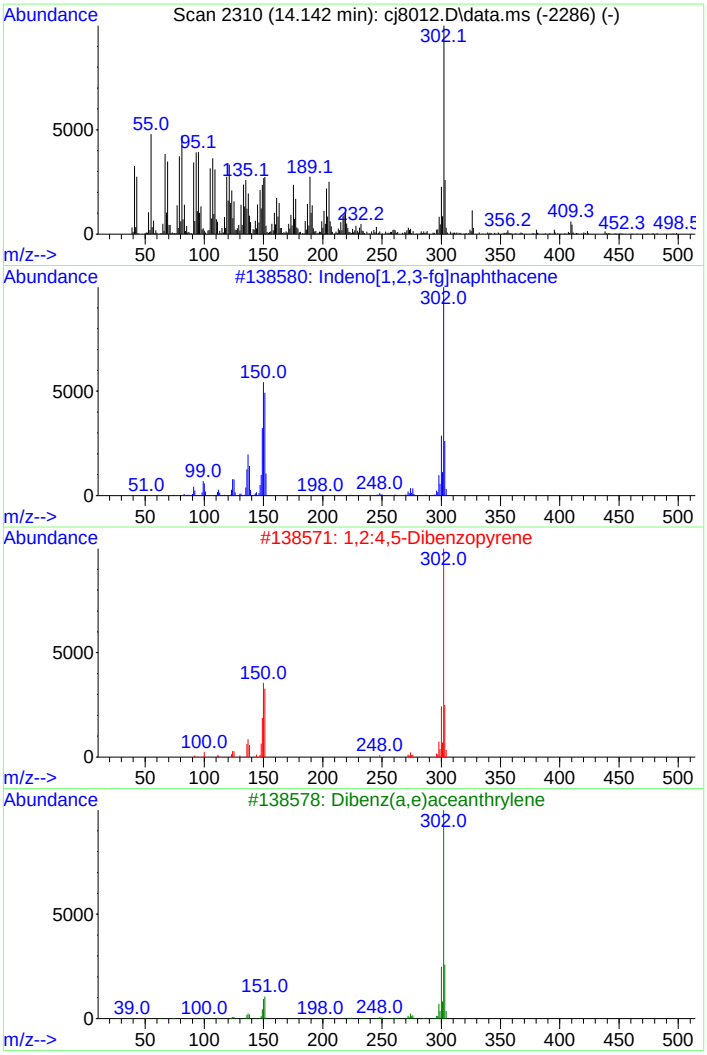
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

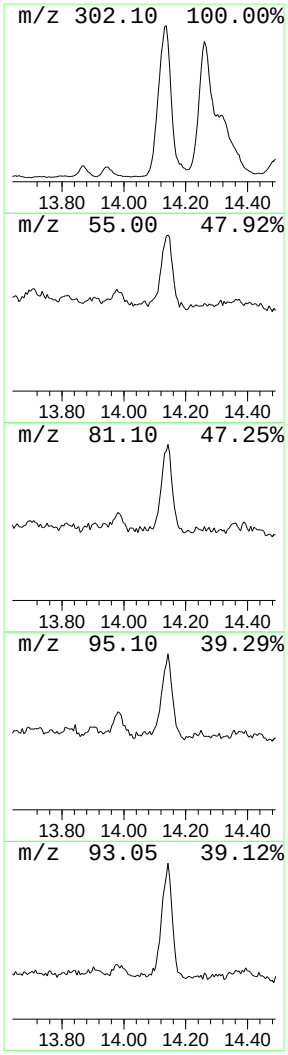
****

Peak Number 25 Dibenzopyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.142	20.65 ppm	3564950	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[1,2,3-fg]naphthacene	302	C24H14	000203-11-2	83
2	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	80
3	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	45
4	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	43
5	7-Phenyl-2-p-tolyl-2,5-dihydro-p...	302	C18H14N4O	1000318-49-6	42





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8012.D
Acq On : 01 Jul 2024 08:34 pm
Operator : karimam
Sample : jd91204-1
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.541	9.5	ppm	524550	2	4.365	2206750	40.0
Unknown	4.568	8.1	ppm	443972	2	4.365	2206750	40.0
Unknown alcohol	10.532	11.7	ppm	1727300	10	9.970	5924070	40.0
Unknown PAH sub...	11.045	12.3	ppm	2121430	11	11.286	6905950	40.0
Alkane	11.083	10.8	ppm	1869250	11	11.286	6905950	40.0
Unknown alcohol	11.126	17.8	ppm	3080750	11	11.286	6905950	40.0
Unknown PAH sub...	11.185	17.4	ppm	3001690	11	11.286	6905950	40.0
Unknown	11.388	14.1	ppm	2430750	11	11.286	6905950	40.0
Unknown	11.420	7.4	ppm	1277370	11	11.286	6905950	40.0
Unknown	11.457	11.7	ppm	2016030	11	11.286	6905950	40.0
Unknown	11.516	18.5	ppm	3187730	11	11.286	6905950	40.0
Unknown	11.586	11.4	ppm	1962610	11	11.286	6905950	40.0
Alkane	11.682	20.5	ppm	3543110	11	11.286	6905950	40.0
Unknown	11.751	14.2	ppm	2443650	11	11.286	6905950	40.0
Vitamin E	11.848	9.9	ppm	1711700	11	11.286	6905950	40.0
Unknown alcohol	12.222	19.6	ppm	3379210	11	11.286	6905950	40.0
Unknown PAH sub...	12.441	9.2	ppm	1582200	11	11.286	6905950	40.0
Unknown alcohol	12.538	10.2	ppm	1764740	11	11.286	6905950	40.0
Sitosterol	12.709	16.9	ppm	2924400	11	11.286	6905950	40.0
Unknown PAH sub...	12.789	11.0	ppm	1902520	11	11.286	6905950	40.0
Unknown	13.019	8.8	ppm	1510940	11	11.286	6905950	40.0
Unknown	13.148	8.4	ppm	1459380	11	11.286	6905950	40.0
Unknown	13.201	10.6	ppm	1835490	11	11.286	6905950	40.0
Unknown	13.351	9.7	ppm	1670880	11	11.286	6905950	40.0
Dibenzopyrene	14.142	20.6	ppm	3564950	11	11.286	6905950	40.0

Quantitation Report (LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7994.D
Acq On : 01 Jul 2024 02:57 pm
Operator : karimam
Sample : jd91204-2 Inst : GCMSCJ
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 22:09:49 2024
Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Mon Jul 01 21:49:56 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.360	152	391381	40.00	ppm	0.00
24) Naphthalene-d8	5.162	136	1467822	40.00	ppm	0.00
46) Acenaphthene-d10	6.307	164	854273	40.00	ppm	0.00
69) Phenanthrene-d10	7.484	188	1570061	40.00	ppm	0.00
84) Chrysene-d12	9.960	240	1290029	40.00	ppm	0.00
93) Perylene-d12	11.270	264	1349967	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.360	152	391381	40.00	ppm	0.00
105) Phenanthrene-d10a	7.484	188	1570061	40.00	ppm	0.00
107) Naphthalene-d8a	5.162	136	1467822	40.00	ppm	0.00
109) Phenanthrene-d10b	7.484	188	1570061	40.00	ppm	0.00
112) Chrysene-d12a	9.960	240	1290029	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.542	112	131592	11.70	ppm	0.02
Spiked Amount 50.000			Recovery = 23.40%			
8) Phenol-d5	4.167	99	186761	12.87	ppm	0.01
Spiked Amount 50.000			Recovery = 25.74%			
25) Nitrobenzene-d5	4.718	82	227477	15.14	ppm	0.00
Spiked Amount 50.000			Recovery = 30.28%			
51) 2-Fluorobiphenyl	5.842	172	460190	17.12	ppm	0.00
Spiked Amount 50.000			Recovery = 34.24%			
74) 2,4,6-Tribromophenol	6.911	330	46003	13.36	ppm	0.00
Spiked Amount 50.000			Recovery = 26.72%			
87) Terphenyl-d14	8.949	244	549739	17.25	ppm	0.00
Spiked Amount 50.000			Recovery = 34.50%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

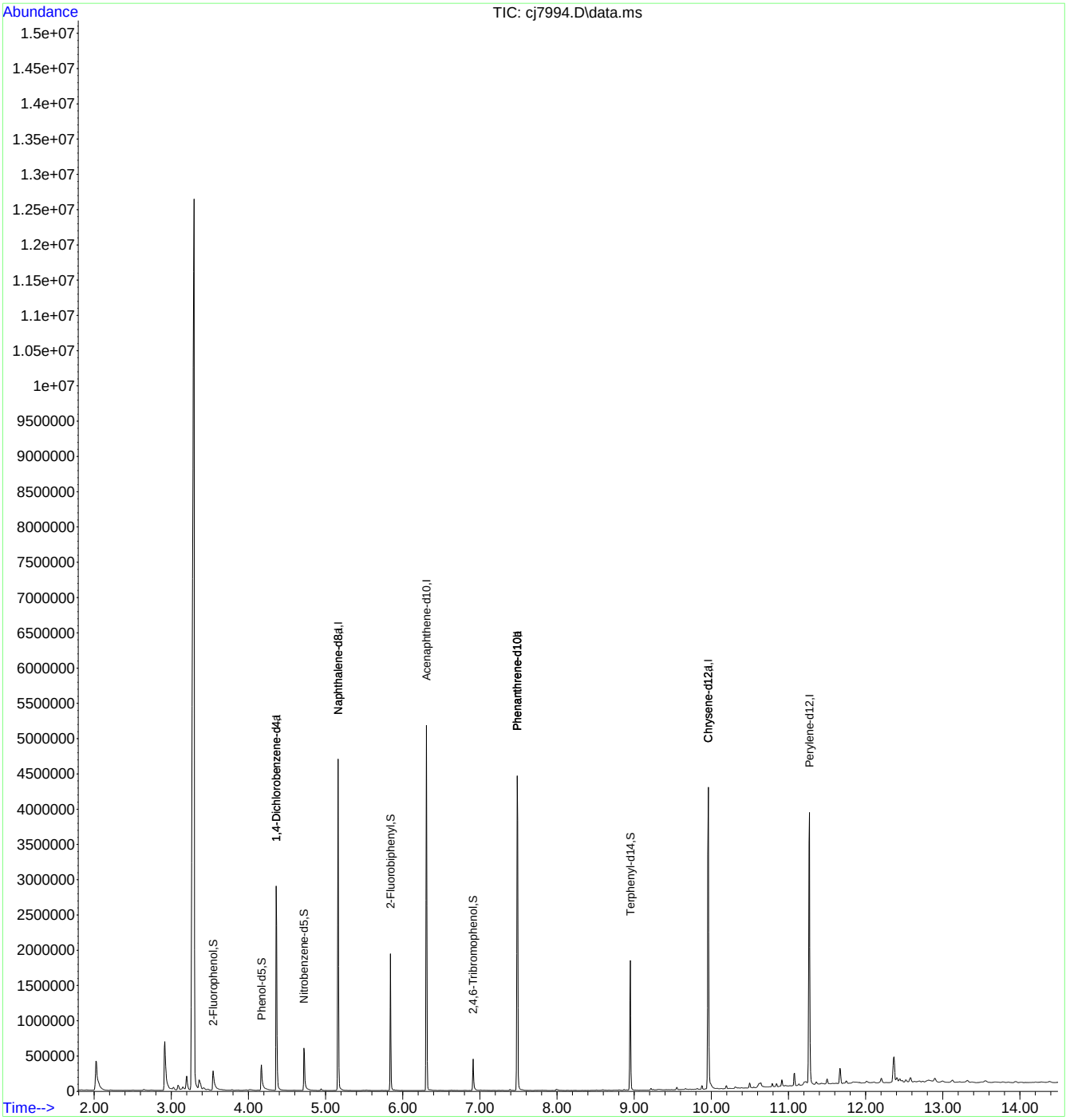
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7994.D
Acq On : 01 Jul 2024 02:57 pm
Operator : karimam
Sample : jd91204-2 Inst : GCMSCJ
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 01 22:09:49 2024
Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Mon Jul 01 21:49:56 2024
Response via : Initial Calibration



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7994.D
Acq On : 01 Jul 2024 02:57 pm
Operator : karimam
Sample : jd91204-2
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj7994.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.023	417	418	431	rVB6	9290	19458	0.48%	0.066%
2	4.167	439	445	477	rVB	360520	530957	13.17%	1.804%
3	4.360	477	481	503	rBV	2897899	2318525	57.52%	7.877%
4	4.585	519	523	530	rVB9	3765	5486	0.14%	0.019%
5	4.718	545	548	567	rBV	600659	635941	15.78%	2.160%
6	4.943	583	590	599	rBV	24974	23689	0.59%	0.080%
7	5.162	624	631	652	rVV	4699547	3095839	76.81%	10.517%
8	5.494	686	693	694	rBV6	6149	9681	0.24%	0.033%
9	5.526	694	699	705	rVV4	9510	17719	0.44%	0.060%
10	5.729	732	737	742	rBV6	3955	7183	0.18%	0.024%
11	5.842	751	758	766	rVV	1941417	1359670	33.73%	4.619%
12	5.890	766	767	770	rVV	11995	9639	0.24%	0.033%
13	5.922	770	773	783	rVV7	7147	12927	0.32%	0.044%
14	6.307	839	845	873	rVV	5178621	3698523	91.76%	12.565%
15	6.494	873	880	882	rVV8	3768	6421	0.16%	0.022%
16	6.628	903	905	908	rVV2	7590	5884	0.15%	0.020%
17	6.799	933	937	944	rVB9	4374	7548	0.19%	0.026%
18	6.911	953	958	974	rBV	446858	431078	10.70%	1.464%
19	7.008	974	976	983	rVV	8777	11101	0.28%	0.038%
20	7.248	1014	1021	1025	rBV10	4143	7029	0.17%	0.024%
21	7.387	1039	1047	1056	rVB	16043	19367	0.48%	0.066%
22	7.484	1056	1065	1075	rBV	4463512	3892474	96.57%	13.224%
23	7.649	1092	1096	1102	rVB3	4060	5680	0.14%	0.019%
24	7.767	1113	1118	1123	rVV6	4309	8299	0.21%	0.028%
25	7.810	1123	1126	1131	rVV7	5948	9242	0.23%	0.031%
26	7.858	1131	1135	1143	rVB7	2981	6176	0.15%	0.021%
27	7.992	1153	1160	1175	rVV4	17386	35034	0.87%	0.119%
28	8.141	1182	1188	1193	rBV10	4349	7177	0.18%	0.024%
29	8.511	1253	1257	1260	rVB2	8863	7638	0.19%	0.026%
30	8.591	1260	1272	1278	rBV4	10185	24568	0.61%	0.083%
31	8.671	1283	1287	1295	rVB4	4031	9186	0.23%	0.031%
32	8.741	1295	1300	1304	rBV8	5520	9869	0.24%	0.034%
33	8.805	1309	1312	1320	rVB3	6544	9941	0.25%	0.034%
34	8.869	1320	1324	1327	rBV2	10736	9858	0.24%	0.033%
35	8.949	1333	1339	1349	rBV	1840166	1553431	38.54%	5.277%
36	9.013	1349	1351	1359	rVB9	5907	6557	0.16%	0.022%
37	9.217	1380	1389	1393	rBV	24679	24696	0.61%	0.084%
38	9.249	1393	1395	1398	rVB3	7933	5947	0.15%	0.020%
39	9.313	1398	1407	1408	rBV8	8820	15110	0.37%	0.051%
40	9.554	1443	1452	1456	rBV	37329	34215	0.85%	0.116%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7994.D
Acq On : 01 Jul 2024 02:57 pm
Operator : karimam
Sample : jd91204-2
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.623	1461	1465	1469	rBV7	3898	6209	0.15%	0.021%
42	9.666	1469	1473	1476	rBV3	12079	10357	0.26%	0.035%
43	9.816	1493	1501	1505	rBV7	14220	23746	0.59%	0.081%
44	9.880	1508	1513	1518	rVB	53962	49304	1.22%	0.167%
45	9.960	1518	1528	1546	rBV	4284552	4030536	100.00%	13.693%
46	10.072	1546	1549	1553	rVB6	6712	9006	0.22%	0.031%
47	10.137	1553	1561	1564	rVB8	6036	11315	0.28%	0.038%
48	10.195	1564	1572	1576	rBV	45531	50130	1.24%	0.170%
49	10.244	1576	1581	1585	rBV7	5157	6378	0.16%	0.022%
50	10.313	1589	1594	1599	rBV2	22945	38564	0.96%	0.131%
51	10.388	1606	1608	1612	rBV5	6568	6032	0.15%	0.020%
52	10.495	1622	1628	1635	rBV	73967	81014	2.01%	0.275%
53	10.548	1635	1638	1642	rBV	12794	9887	0.25%	0.034%
54	10.639	1642	1655	1669	rBV5	70082	245051	6.08%	0.833%
55	10.789	1679	1683	1687	rBV	48509	46925	1.16%	0.159%
56	10.843	1687	1693	1697	rBV2	44351	46042	1.14%	0.156%
57	10.912	1697	1706	1712	rBV	97525	113079	2.81%	0.384%
58	10.955	1712	1714	1720	rBV5	8231	9494	0.24%	0.032%
59	11.078	1729	1737	1742	rBV	183161	187014	4.64%	0.635%
60	11.137	1742	1748	1751	rBV2	24415	29468	0.73%	0.100%
61	11.222	1754	1764	1768	rBV8	50861	153122	3.80%	0.520%
62	11.270	1768	1773	1785	rVB	3856051	3853435	95.61%	13.091%
63	11.361	1785	1790	1797	rBV	35144	48979	1.22%	0.166%
64	11.426	1797	1802	1805	rBV5	13874	18886	0.47%	0.064%
65	11.500	1811	1816	1824	rBV2	71142	81323	2.02%	0.276%
66	11.575	1824	1830	1834	rBV9	6966	13291	0.33%	0.045%
67	11.618	1834	1838	1841	rBV6	7157	8038	0.20%	0.027%
68	11.666	1843	1847	1853	rBV	219616	245608	6.09%	0.834%
69	11.714	1853	1856	1858	rBV4	8526	8670	0.22%	0.029%
70	11.752	1858	1863	1867	rVB	36612	44135	1.10%	0.150%
71	11.837	1874	1879	1885	rBV9	17790	48272	1.20%	0.164%
72	12.014	1906	1912	1921	rBV4	26512	50016	1.24%	0.170%
73	12.105	1922	1929	1936	rVB10	13753	29695	0.74%	0.101%
74	12.201	1938	1947	1954	rBV	66467	103145	2.56%	0.350%
75	12.367	1966	1978	1982	rBV	368011	552266	13.70%	1.876%
76	12.404	1982	1985	1989	rVV	71894	108908	2.70%	0.370%
77	12.442	1989	1992	1996	rVV3	54221	86971	2.16%	0.295%
78	12.474	1996	1998	2002	rVV5	30568	38377	0.95%	0.130%
79	12.522	2002	2007	2013	rVV2	38011	73831	1.83%	0.251%
80	12.581	2013	2018	2023	rVV7	71038	118662	2.94%	0.403%
81	12.629	2024	2027	2032	rVV7	16224	33438	0.83%	0.114%
82	12.699	2034	2040	2044	rVV9	20067	48198	1.20%	0.164%
83	12.736	2044	2047	2052	rVV7	17316	30369	0.75%	0.103%
84	12.816	2052	2062	2072	rVV7	31520	144127	3.58%	0.490%
85	12.896	2072	2077	2085	rVB9	56437	116364	2.89%	0.395%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7994.D
Acq On : 01 Jul 2024 02:57 pm
Operator : karimam
Sample : jd91204-2
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	13.993	2090	2095	2108	rVB9	19384	45961	1.14%	0.156%
87	13.126	2113	2120	2127	rVB6	31288	55955	1.39%	0.190%
88	13.223	2134	2138	2144	rVB9	8406	10892	0.27%	0.037%
89	13.319	2148	2156	2162	rVV9	30746	64684	1.60%	0.220%
90	13.378	2163	2167	2177	rVB10	8958	21956	0.54%	0.075%
91	13.506	2184	2191	2194	rBV9	8768	19395	0.48%	0.066%
92	13.554	2195	2200	2208	rVB8	27140	58608	1.45%	0.199%
93	13.672	2216	2222	2236	rBV8	8347	30581	0.76%	0.104%
94	13.774	2237	2241	2249	rVV10	9122	19512	0.48%	0.066%
95	13.849	2251	2255	2263	rVB10	7352	14143	0.35%	0.048%
96	13.939	2267	2272	2280	rVB10	17015	34565	0.86%	0.117%
97	14.025	2280	2288	2295	rBV10	7228	20137	0.50%	0.068%
98	14.196	2318	2320	2324	rVV5	4319	5608	0.14%	0.019%
99	14.276	2332	2335	2347	rVV5	9329	18872	0.47%	0.064%
100	14.383	2348	2355	2363	rVB5	17694	38197	0.95%	0.130%

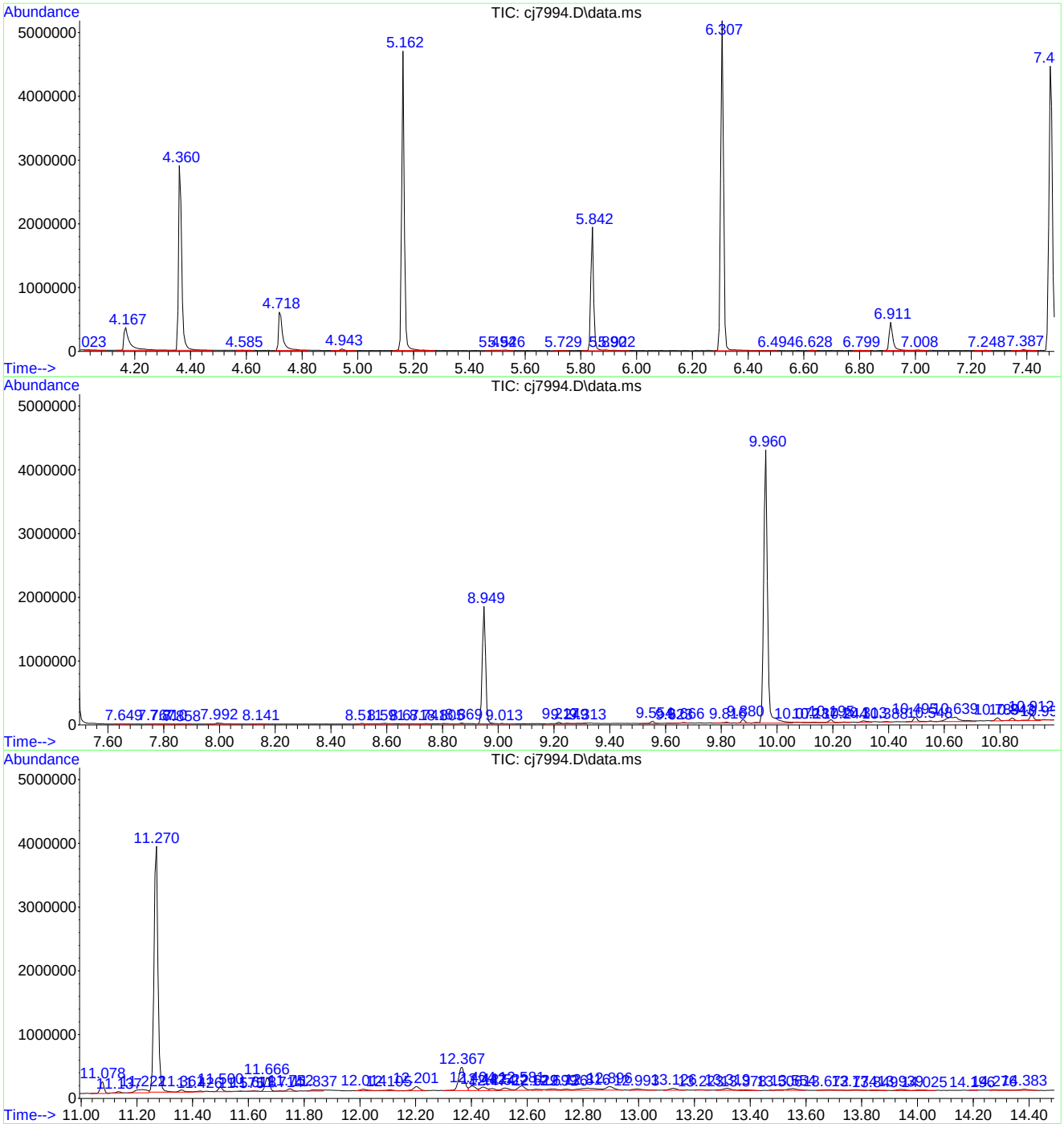
Sum of corrected areas: 29435506

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7994.D
Acq On : 01 Jul 2024 02:57 pm
Operator : karimam
Sample : jd91204-2
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7994.D
Acq On : 01 Jul 2024 02:57 pm
Operator : karimam
Sample : jd91204-2
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

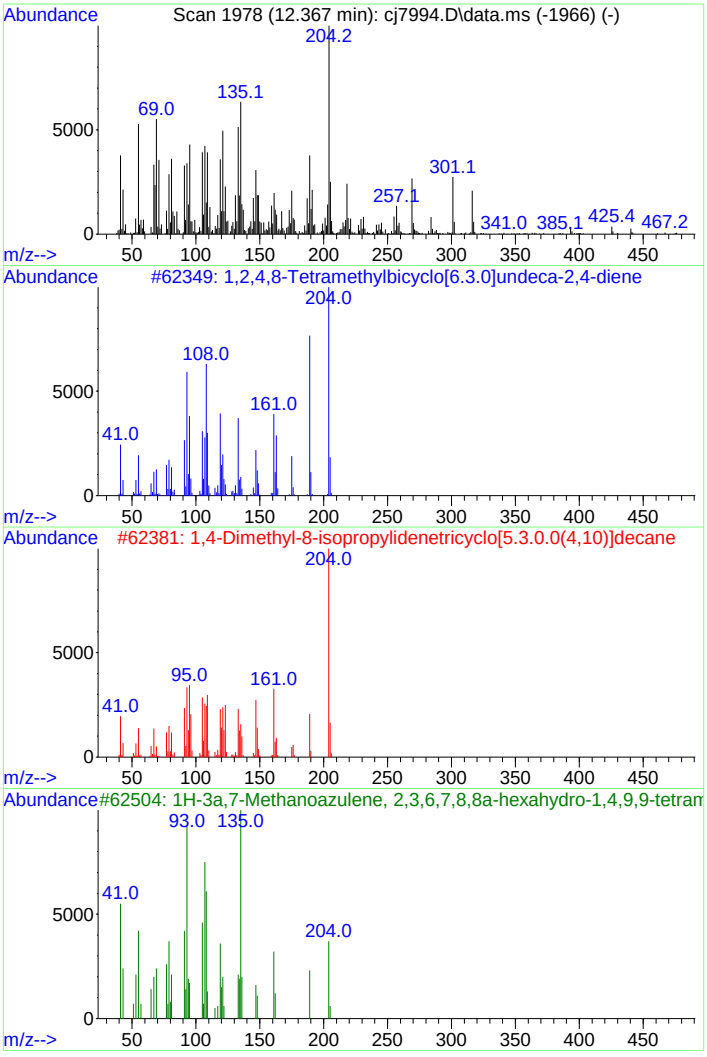
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

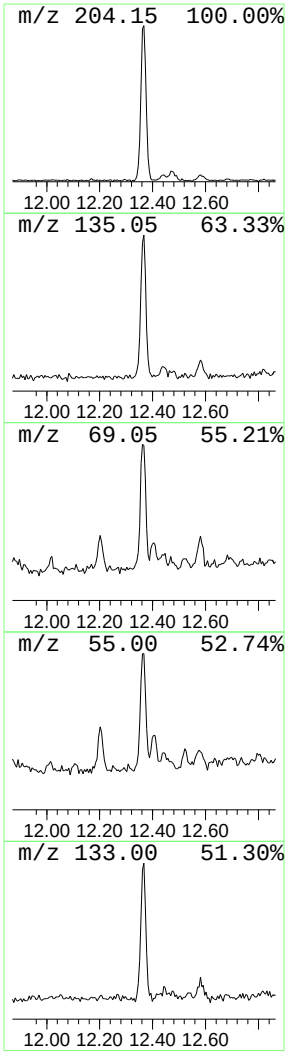
****

Peak Number 1 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.367	5.73 ppm	552266	Perylene-d12	11.271

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
2	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1000140-07-7	49
3	1H-3a,7-Methanoazulene, 2,3,6,7,...	204	C15H24	000560-32-7	45
4	1H-Cycloprop[e]azulene, 1a,2,3,4...	204	C15H24	000489-40-7	43
5	1H-Cycloprop[e]azulene, 1a,2,3,4...	204	C15H24	000489-40-7	43





Tentatively Identified Compound (LSC) summary

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TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	12.367	5.7	ppm	552266	11	11.271	3853440	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jeryll Fabriene Reyes 07/02/24 00:25

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7995.D
Acq On : 01 Jul 2024 03:16 pm
Operator : karimam
Sample : jd91204-3 Inst : GCMSCJ
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 01 22:12:26 2024
Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Mon Jul 01 21:49:56 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.360	152	401975	40.00	ppm	0.00
24) Naphthalene-d8	5.162	136	1505935	40.00	ppm	0.00
46) Acenaphthene-d10	6.307	164	861610	40.00	ppm	0.00
69) Phenanthrene-d10	7.483	188	1589816	40.00	ppm	0.00
84) Chrysene-d12	9.960	240	1271672	40.00	ppm	0.00
93) Perylene-d12	11.270	264	1290675	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.360	152	401975	40.00	ppm	0.00
105) Phenanthrene-d10a	7.483	188	1589816	40.00	ppm	0.00
107) Naphthalene-d8a	5.162	136	1505935	40.00	ppm	0.00
109) Phenanthrene-d10b	7.483	188	1589816	40.00	ppm	0.00
112) Chrysene-d12a	9.960	240	1271672	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.541	112	128540	11.12	ppm	0.02
Spiked Amount 50.000			Recovery = 22.24%			
8) Phenol-d5	4.167	99	191142	12.83	ppm	0.01
Spiked Amount 50.000			Recovery = 25.66%			
25) Nitrobenzene-d5	4.718	82	208567	13.53	ppm	0.00
Spiked Amount 50.000			Recovery = 27.06%			
51) 2-Fluorobiphenyl	5.841	172	455698	16.81	ppm	0.00
Spiked Amount 50.000			Recovery = 33.62%			
74) 2,4,6-Tribromophenol	6.911	330	54094	15.52	ppm	0.00
Spiked Amount 50.000			Recovery = 31.04%			
87) Terphenyl-d14	8.949	244	540916	17.22	ppm	0.00
Spiked Amount 50.000			Recovery = 34.44%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
56) Acenaphthylene	6.216	152	12975	0.3883	ppm	98
59) Acenaphthene	6.333	153	4136m	0.1740	ppm	
66) Fluorene	6.724	166	5271m	0.2023	ppm	
78) Phenanthrene	7.505	178	87046	2.2656	ppm	100
79) Anthracene	7.558	178	17054	0.4433	ppm	98
80) Carbazole	7.713	167	7973	0.2224	ppm	98
82) Fluoranthene	8.585	202	220121	5.2919	ppm	99
86) Pyrene	8.794	202	207771	4.8042	ppm	99
89) Benzo[a]anthracene	9.954	228	100573	2.4598	ppm	95
91) Chrysene	9.987	228	107487	2.8493	ppm	98
92) bis(2-Ethylhexyl)phtha...	9.997	149	10467	0.3662	ppm	98
95) Benzo[b]fluoranthene	10.949	252	150165m	3.8514	ppm	
96) Benzo[k]fluoranthene	10.971	252	40835m	1.1639	ppm	
97) Benzo[a]pyrene	11.227	252	90243	2.7959	ppm	99
98) Indeno[1,2,3-cd]pyrene	12.319	276	65116	1.6688	ppm	85
100) Dibenz[a,h]anthracene	12.324	278	18286	0.5865	ppm	95
102) Benzo[g,h,i]perylene	12.613	276	62653	2.0662	ppm	98
104) Benzaldehyde	4.124	105	3558	0.3092	ppm	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

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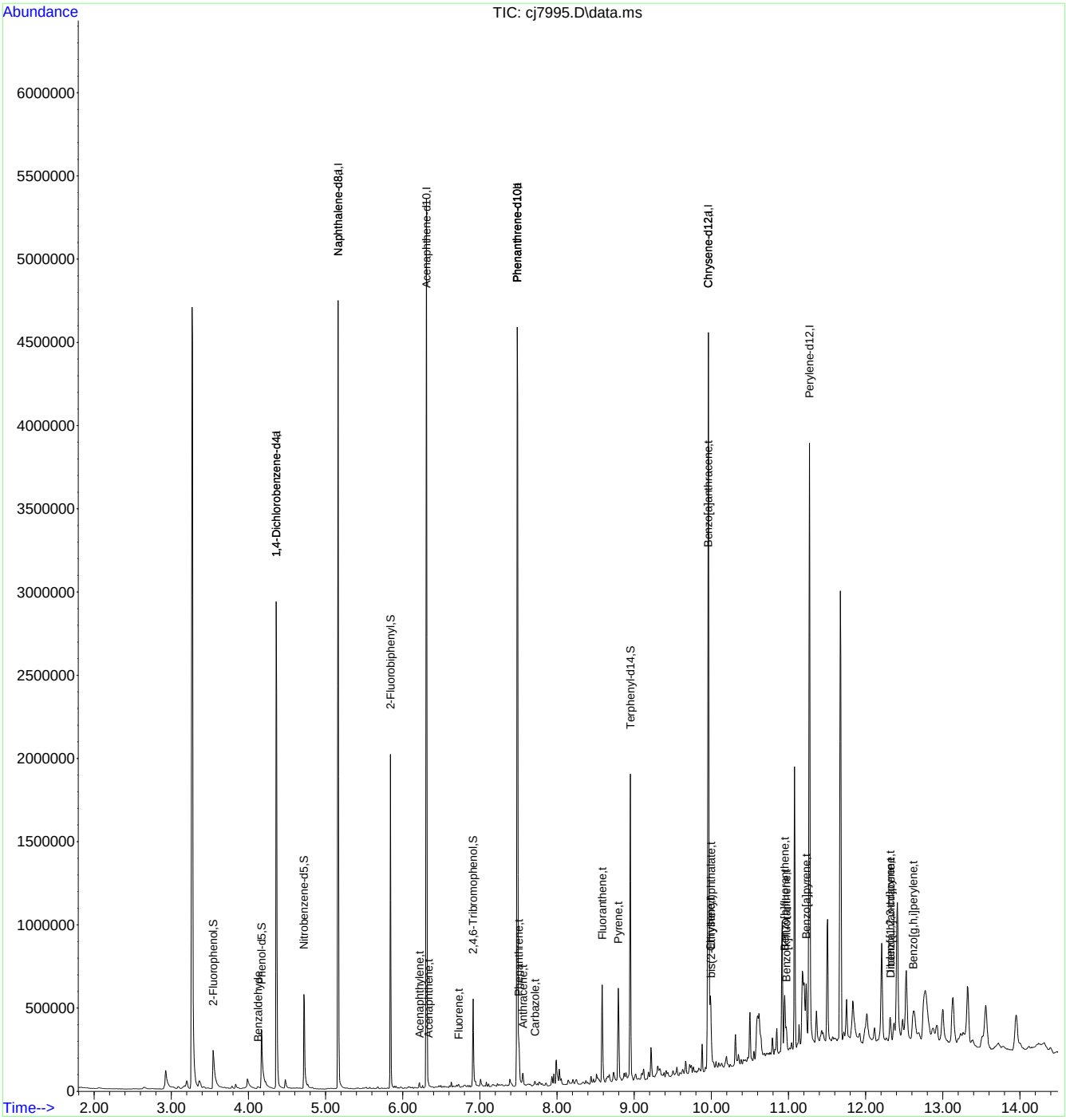
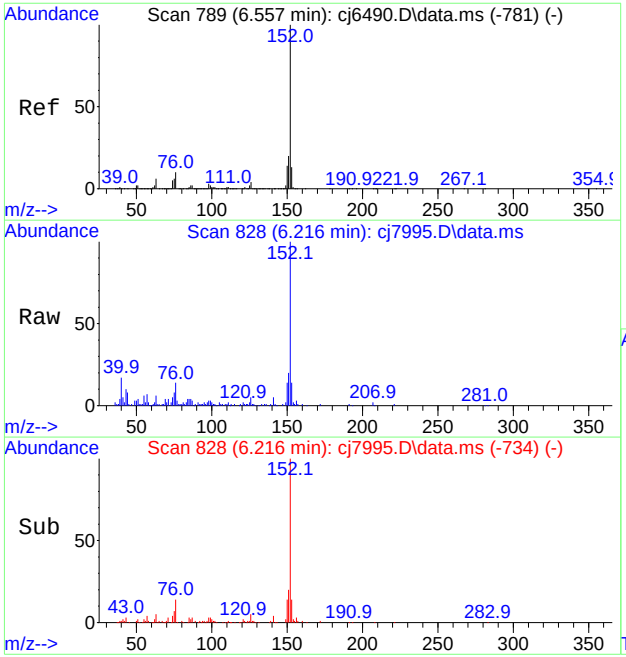
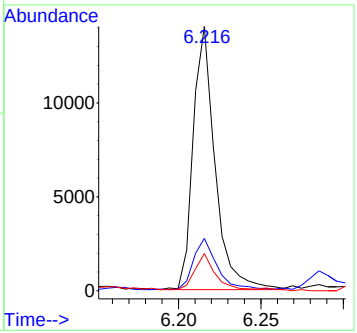


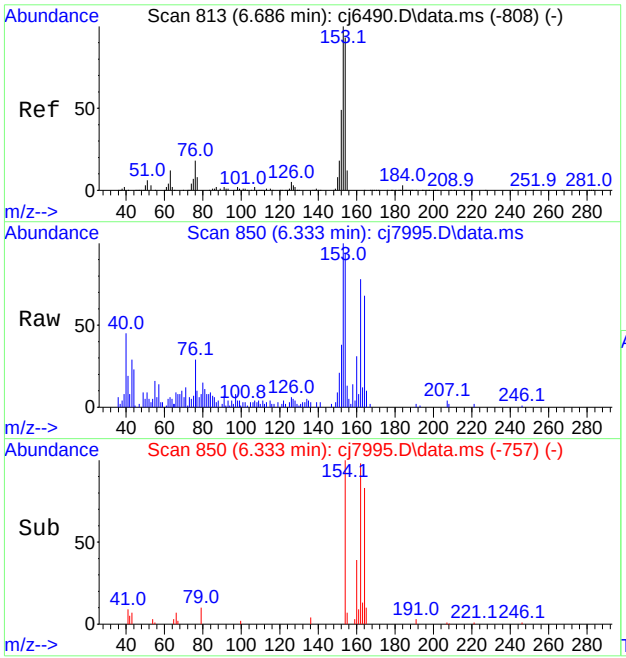


#56
Acenaphthylene
Concen: 0.3883 ppm
RT: 6.216 min Scan# 828
Delta R.T. 0.005 min
Lab File: cj7995.D
Acq: 01 Jul 2024 03:16 pm

Tgt Ion:152 Resp: 12975

Ion	Ratio	Lower	Upper
152	100		
151	19.0	0.0	50.2
153	13.7	0.0	43.5

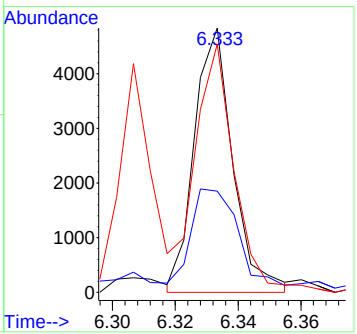


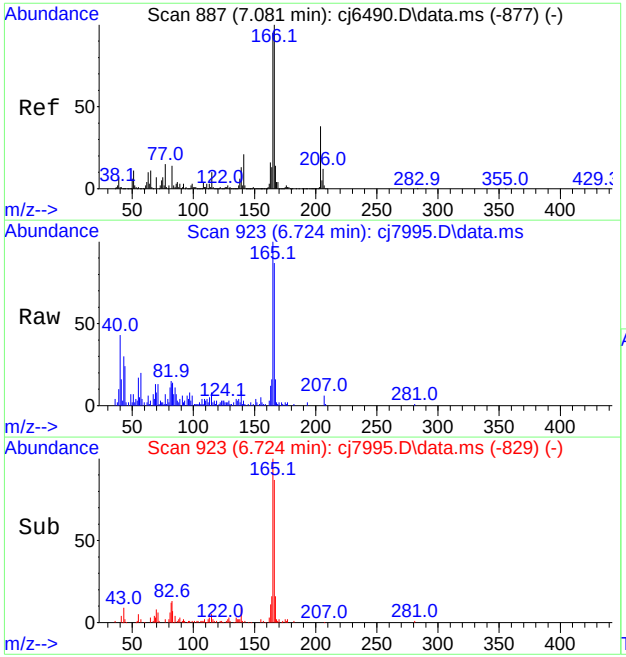


#59
Acenaphthene
Concen: 0.1740 ppm m
RT: 6.333 min Scan# 850
Delta R.T. -0.000 min
Lab File: cj7995.D
Acq: 01 Jul 2024 03:16 pm

Tgt Ion:153 Resp: 4136

Ion	Ratio	Lower	Upper
153	100		
152	38.3	16.9	76.9
154	93.9	56.2	116.2

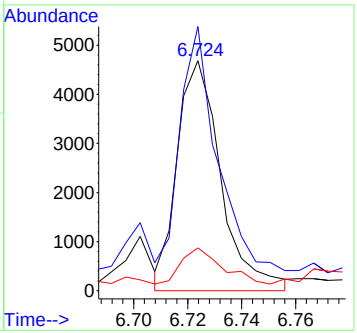


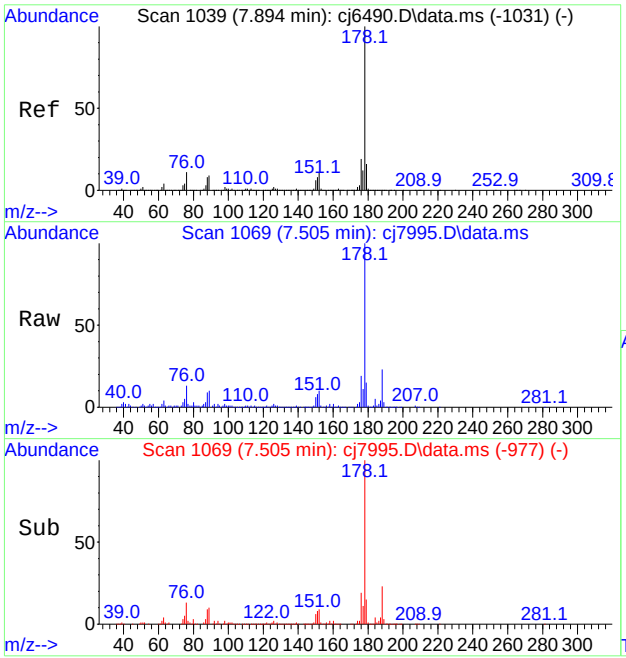


#66
Fluorene
Concen: 0.2023 ppm m
RT: 6.724 min Scan# 923
Delta R.T. 0.005 min
Lab File: cj7995.D
Acq: 01 Jul 2024 03:16 pm

Tgt Ion:166 Resp: 5271

Ion	Ratio	Lower	Upper
166	100		
165	114.9	67.2	127.2
167	18.6	0.0	43.8

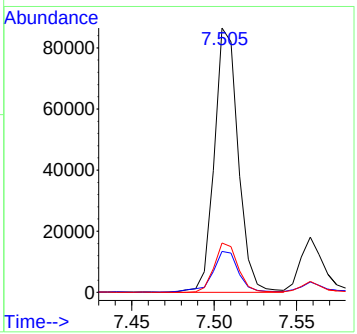


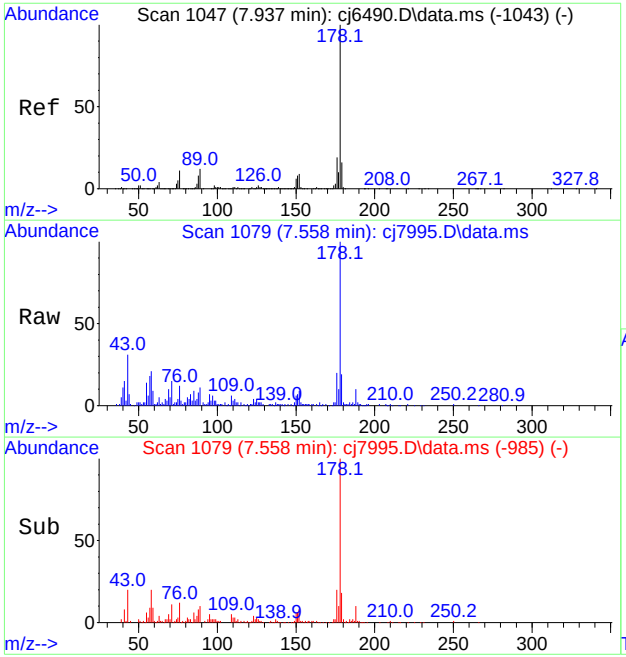


#78
Phenanthrene
Concen: 2.2656 ppm
RT: 7.505 min Scan# 1069
Delta R.T. -0.006 min
Lab File: cj7995.D
Acq: 01 Jul 2024 03:16 pm

Tgt Ion:178 Resp: 87046

Ion	Ratio	Lower	Upper
178	100		
179	15.3	0.0	45.5
176	18.6	0.0	48.7

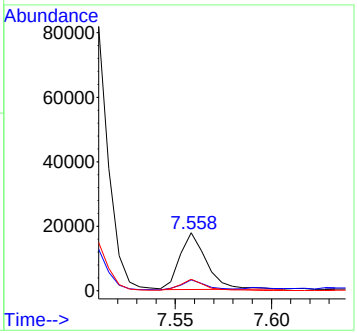


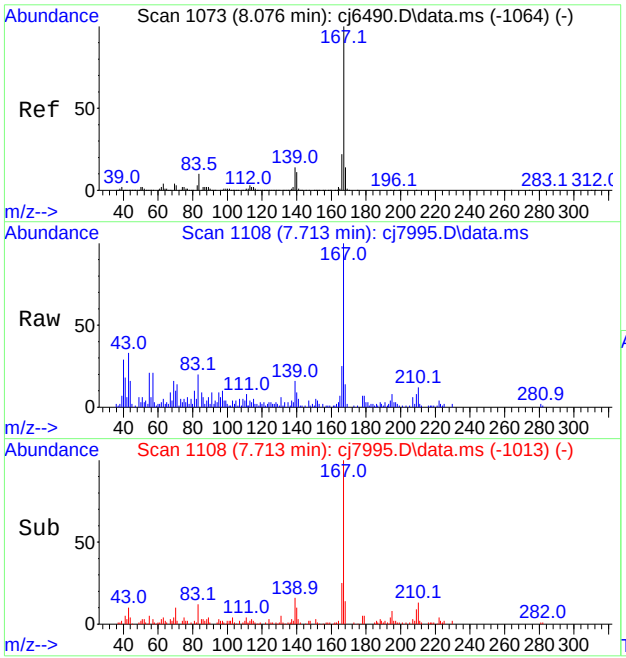


#79
Anthracene
Concen: 0.4433 ppm
RT: 7.558 min Scan# 1079
Delta R.T. 0.005 min
Lab File: cj7995.D
Acq: 01 Jul 2024 03:16 pm

Tgt Ion:178 Resp: 17054

Ion	Ratio	Lower	Upper
178	100		
179	16.8	0.0	45.9
176	19.7	0.0	48.8

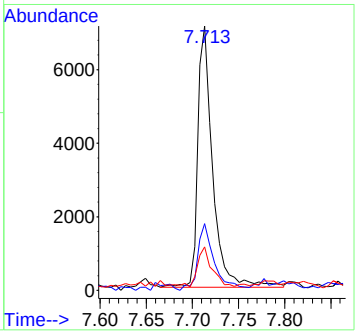


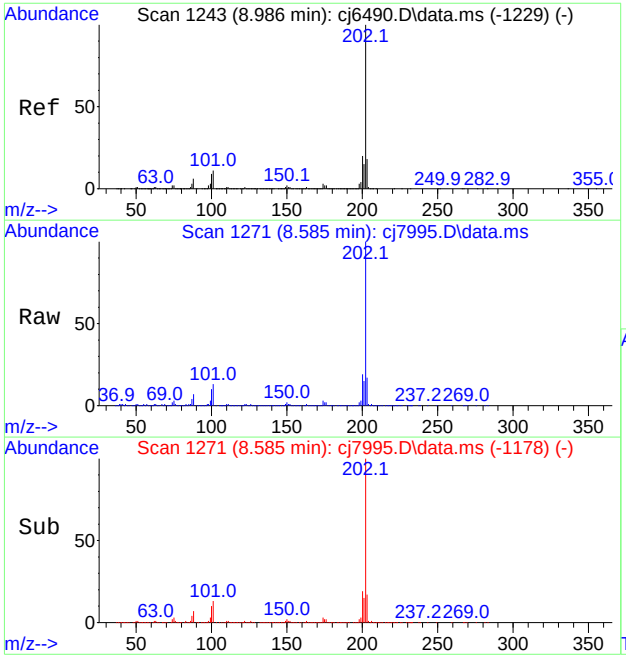


#80
Carbazole
Concen: 0.2224 ppm
RT: 7.713 min Scan# 1108
Delta R.T. 0.011 min
Lab File: cj7995.D
Acq: 01 Jul 2024 03:16 pm

Tgt Ion:167 Resp: 7973

Ion	Ratio	Lower	Upper
167	100		
166	22.3	0.0	51.7
139	13.6	0.0	42.8

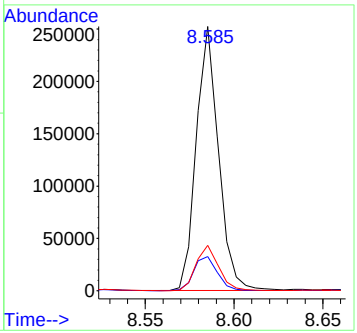


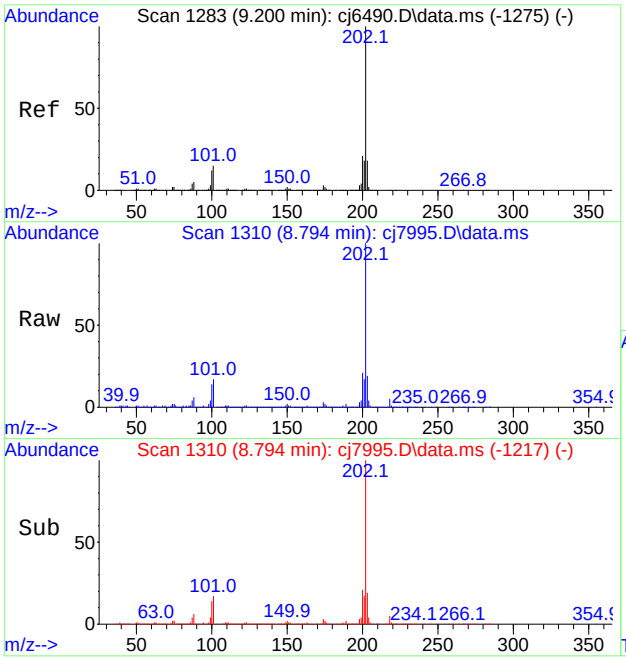


#82
Fluoranthene
Concen: 5.2919 ppm
RT: 8.585 min Scan# 1271
Delta R.T. -0.000 min
Lab File: cj7995.D
Acq: 01 Jul 2024 03:16 pm

Tgt Ion:202 Resp: 220121

Ion	Ratio	Lower	Upper
202	100		
101	12.9	0.0	42.9
203	17.1	0.0	47.5

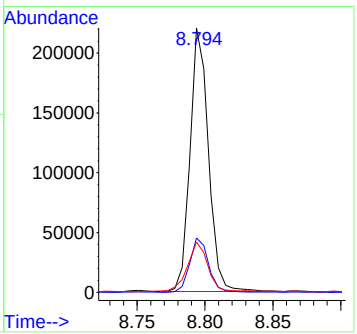


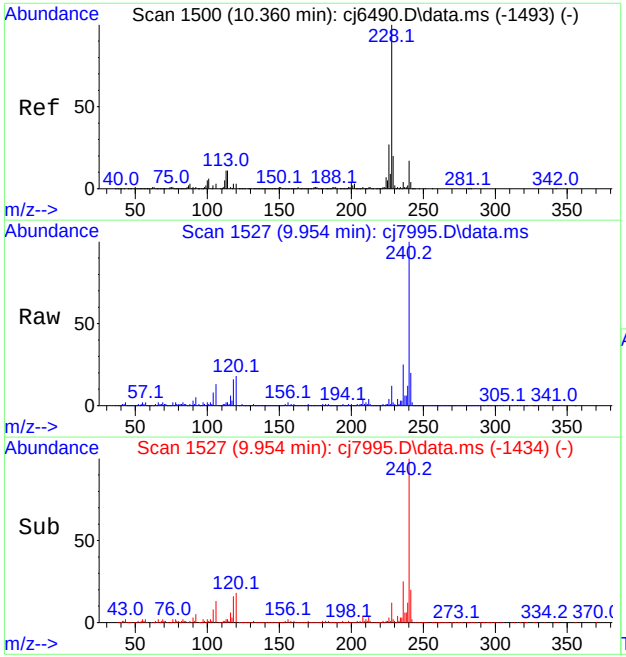


#86
Pyrene
Concen: 4.8042 ppm
RT: 8.794 min Scan# 1310
Delta R.T. -0.000 min
Lab File: cj7995.D
Acq: 01 Jul 2024 03:16 pm

Tgt Ion:202 Resp: 207771

Ion	Ratio	Lower	Upper
202	100		
200	20.6	0.0	51.0
203	18.7	0.0	48.5

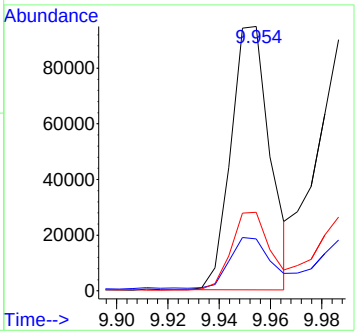


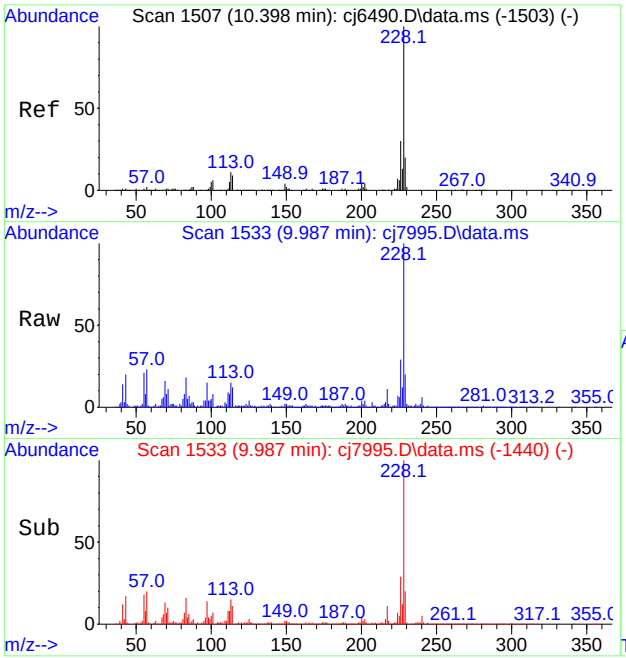


#89
Benzo[a]anthracene
Concen: 2.4598 ppm
RT: 9.954 min Scan# 1527
Delta R.T. -0.000 min
Lab File: cj7995.D
Acq: 01 Jul 2024 03:16 pm

Tgt Ion:228 Resp: 100573

Ion	Ratio	Lower	Upper
228	100		
229	18.3	0.0	49.9
226	29.6	0.0	56.5

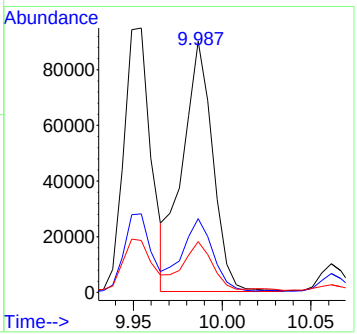


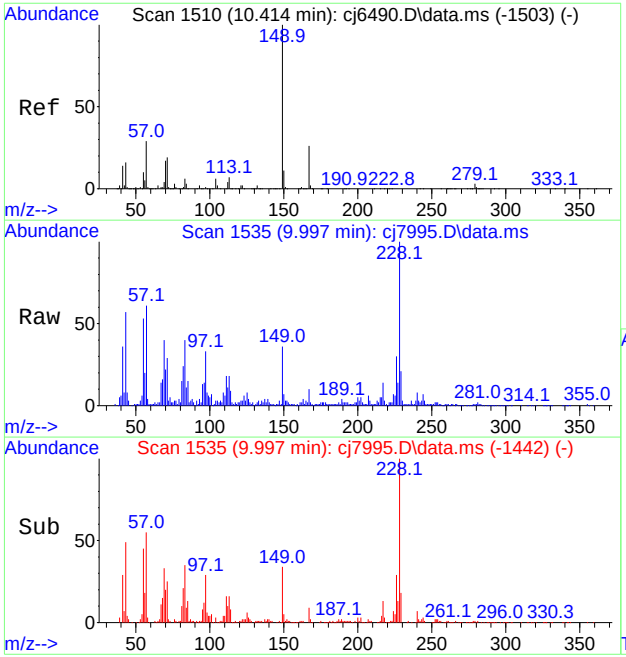


#91
Chrysene
Concen: 2.8493 ppm
RT: 9.987 min Scan# 1533
Delta R.T. -0.000 min
Lab File: cj7995.D
Acq: 01 Jul 2024 03:16 pm

Tgt Ion:228 Resp: 107487

Ion	Ratio	Lower	Upper
228	100		
226	29.1	0.3	60.3
229	19.1	0.0	50.3

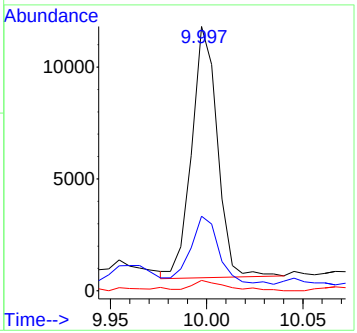


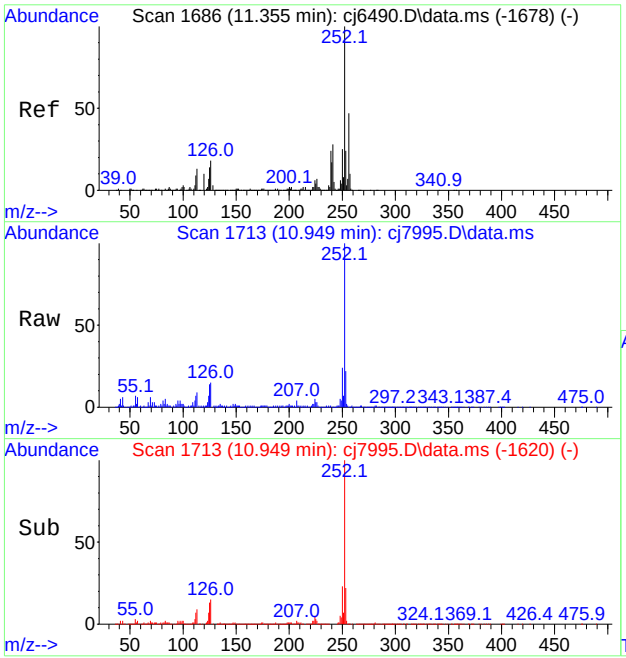


#92
bis(2-Ethylhexyl)phthalate
Concen: 0.3662 ppm
RT: 9.997 min Scan# 1535
Delta R.T. -0.000 min
Lab File: cj7995.D
Acq: 01 Jul 2024 03:16 pm

Tgt Ion:149 Resp: 10467

Ion	Ratio	Lower	Upper
149	100		
167	25.6	0.0	56.9
279	3.5	0.0	33.4

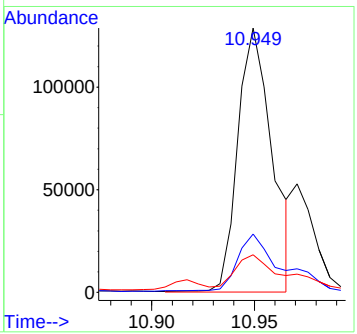


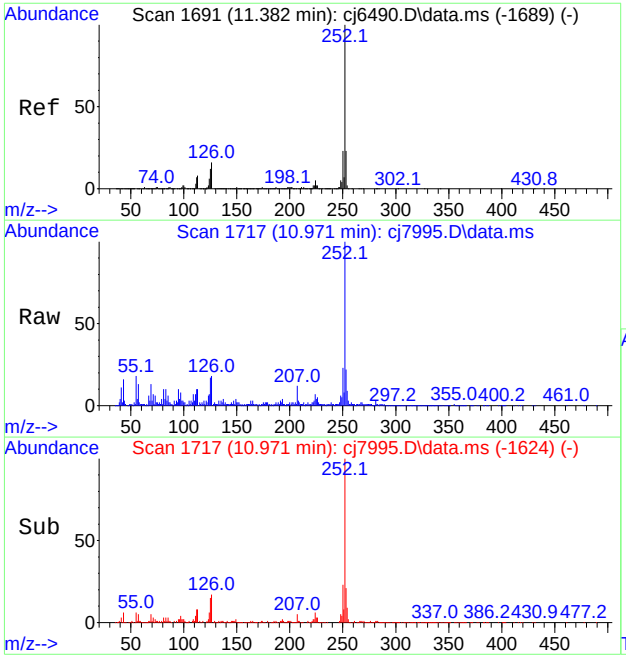


#95
Benzo[b]fluoranthene
Concen: 3.8514 ppm m
RT: 10.949 min Scan# 1713
Delta R.T. -0.000 min
Lab File: cj7995.D
Acq: 01 Jul 2024 03:16 pm

Tgt Ion:252 Resp: 150165

Ion	Ratio	Lower	Upper
252	100		
253	22.0	0.0	52.5
125	14.3	0.0	42.4

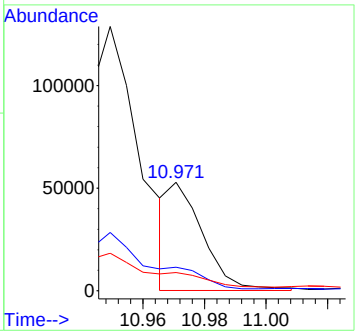


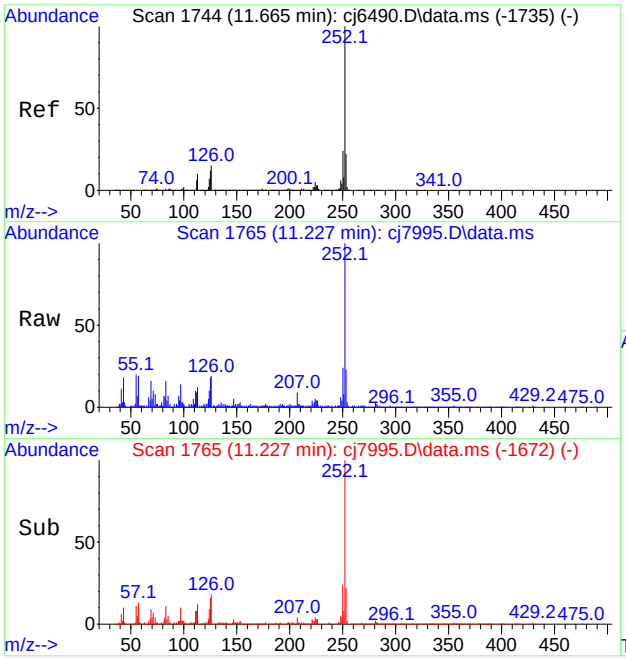


#96
Benzo[k]fluoranthene
Concen: 1.1639 ppm m
RT: 10.971 min Scan# 1717
Delta R.T. -0.000 min
Lab File: cj7995.D
Acq: 01 Jul 2024 03:16 pm

Tgt Ion:252 Resp: 40835

Ion	Ratio	Lower	Upper
252	100		
253	21.8	0.0	51.7
125	16.9	0.0	43.5

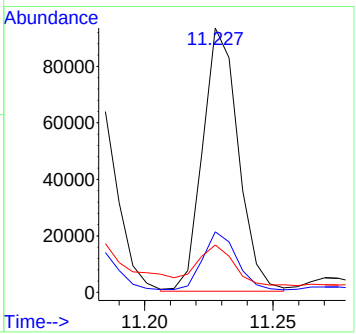


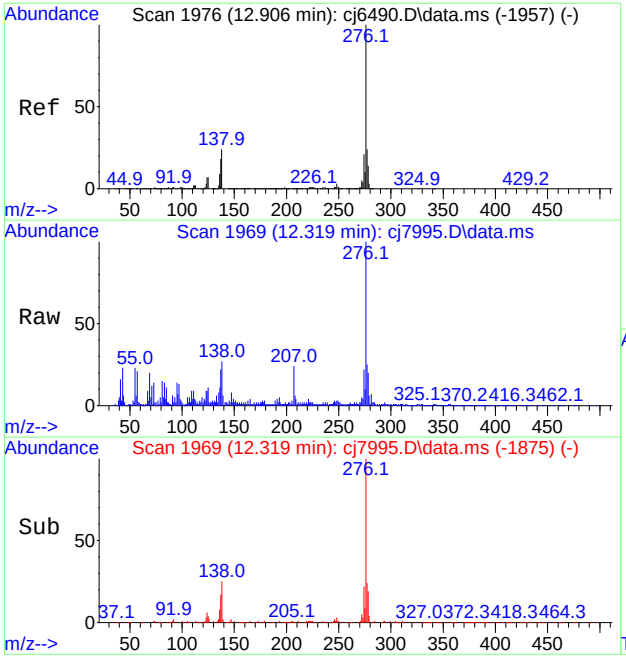


#97
Benzo[a]pyrene
Concen: 2.7959 ppm
RT: 11.227 min Scan# 1765
Delta R.T. -0.000 min
Lab File: cj7995.D
Acq: 01 Jul 2024 03:16 pm

Tgt Ion:252 Resp: 90243

Ion	Ratio	Lower	Upper
252	100		
253	22.3	0.0	52.1
125	13.2	0.0	42.5

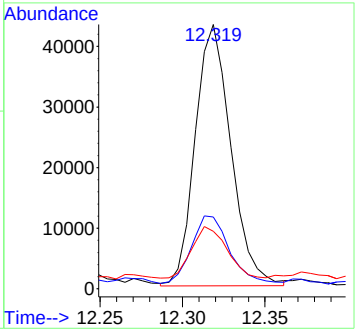


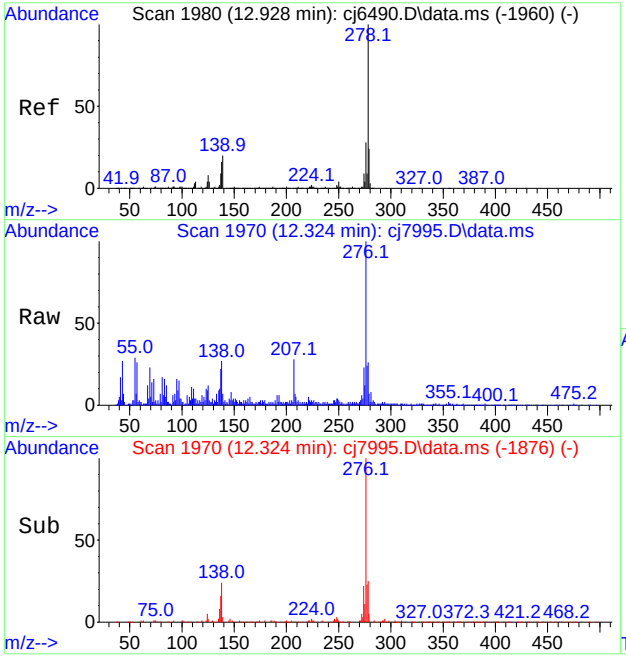


#98
Indeno[1,2,3-cd]pyrene
Concen: 1.6688 ppm
RT: 12.319 min Scan# 1969
Delta R.T. 0.005 min
Lab File: cj7995.D
Acq: 01 Jul 2024 03:16 pm

Tgt Ion:276 Resp: 65116

Ion	Ratio	Lower	Upper
276	100		
138	25.6	5.2	65.2
137	17.7	0.0	53.3

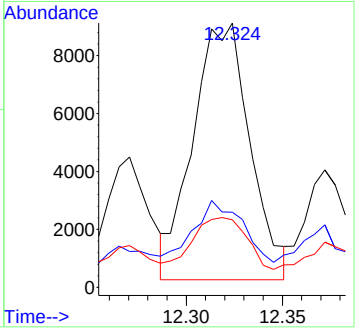


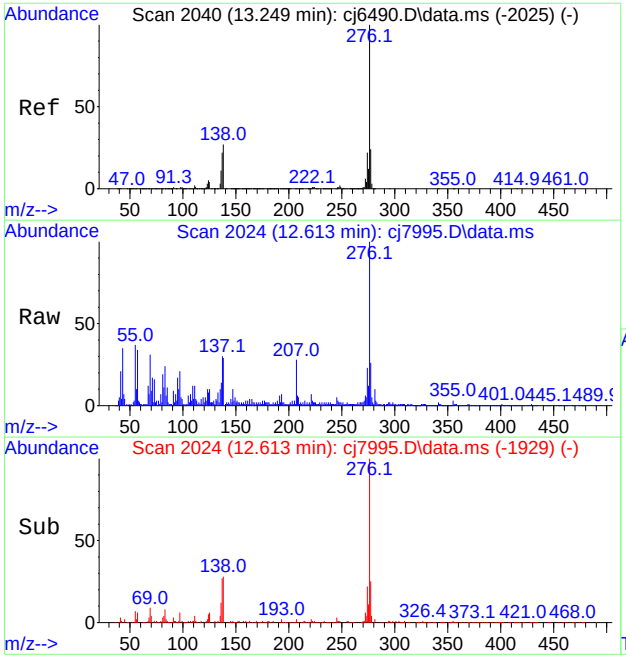


#100
Dibenz[a,h]anthracene
Concen: 0.5865 ppm
RT: 12.324 min Scan# 1970
Delta R.T. 0.005 min
Lab File: cj7995.D
Acq: 01 Jul 2024 03:16 pm

Tgt Ion:278 Resp: 18286

Ion	Ratio	Lower	Upper
278	100		
139	18.1	0.0	48.9
279	20.3	0.0	53.7

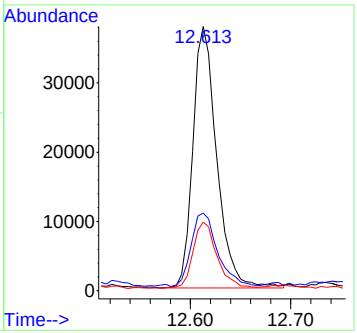


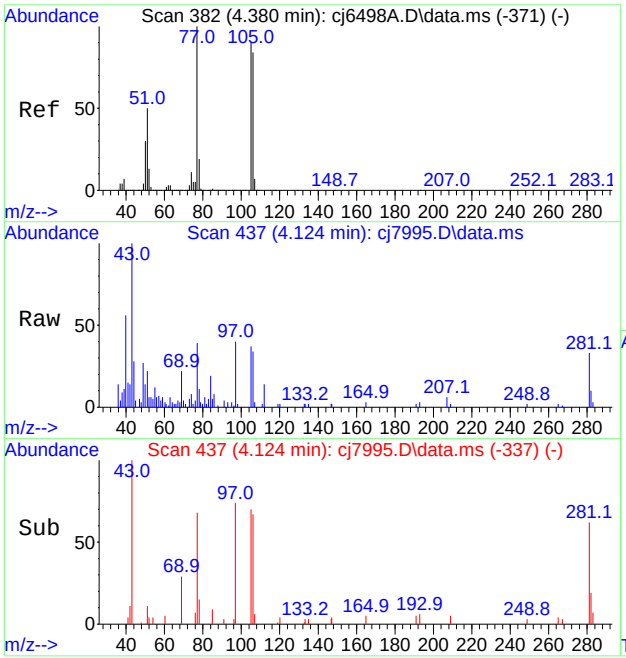


#102
Benzo[g,h,i]perylene
Concen: 2.0662 ppm
RT: 12.613 min Scan# 2024
Delta R.T. 0.011 min
Lab File: cj7995.D
Acq: 01 Jul 2024 03:16 pm

Tgt Ion:276 Resp: 62653

Ion	Ratio	Lower	Upper
276	100		
138	27.7	0.0	57.0
277	24.7	0.0	53.6

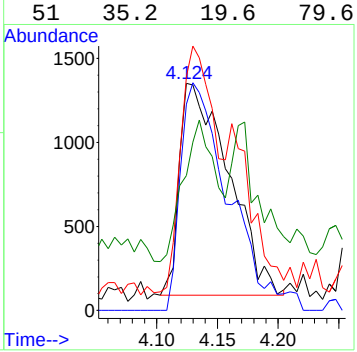




#104
Benzaldehyde
Concen: 0.3092 ppm
RT: 4.124 min Scan# 437
Delta R.T. 0.037 min
Lab File: cj7995.D
Acq: 01 Jul 2024 03:16 pm

Tgt Ion:105 Resp: 3558

Ion	Ratio	Lower	Upper
105	100		
106	94.6	66.2	126.2
77	100.1	78.1	138.1
51	35.2	19.6	79.6



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7995.D
Acq On : 01 Jul 2024 03:16 pm
Operator : karimam
Sample : jd91204-3
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj7995.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.167	442	445	476	rVB	355819	575708	11.24%	1.083%
2	4.360	476	481	499	rBV	2925148	2388907	46.66%	4.494%
3	4.477	499	503	511	rBV	50826	58030	1.13%	0.109%
4	4.718	542	548	556	rBV	564786	557722	10.89%	1.049%
5	5.162	626	631	650	rBV	4736365	3162244	61.77%	5.948%
6	5.841	754	758	765	rBV	2008317	1328637	25.95%	2.499%
7	6.307	838	845	857	rBV	5342275	3779039	73.81%	7.109%
8	6.911	952	958	967	rBV	528876	509239	9.95%	0.958%
9	7.007	973	976	983	rVB	42189	46138	0.90%	0.087%
10	7.387	1041	1047	1057	rVB3	43091	69431	1.36%	0.131%
11	7.483	1057	1065	1076	rBV	4562048	4214450	82.32%	7.928%
12	7.558	1076	1079	1086	rVB2	72785	78184	1.53%	0.147%
13	7.713	1101	1108	1112	rBV	29020	41555	0.81%	0.078%
14	7.933	1139	1149	1152	rBV	57474	67970	1.33%	0.128%
15	7.959	1152	1154	1157	rVV	65934	55534	1.08%	0.104%
16	7.991	1157	1160	1165	rVV2	149150	183602	3.59%	0.345%
17	8.029	1165	1167	1170	rVV	92666	88176	1.72%	0.166%
18	8.147	1181	1189	1193	rBV2	27033	37338	0.73%	0.070%
19	8.248	1204	1208	1215	rVB3	29438	44065	0.86%	0.083%
20	8.441	1240	1244	1247	rBV	47698	48250	0.94%	0.091%
21	8.510	1252	1257	1267	rBV5	51441	89693	1.75%	0.169%
22	8.585	1267	1271	1278	rVB	586822	538890	10.53%	1.014%
23	8.676	1278	1288	1294	rBV7	47220	116518	2.28%	0.219%
24	8.730	1294	1298	1305	rBV4	57834	88937	1.74%	0.167%
25	8.794	1305	1310	1318	rBV	554618	547060	10.69%	1.029%
26	8.869	1318	1324	1326	rBV3	45436	48226	0.94%	0.091%
27	8.949	1332	1339	1347	rVB	1841366	1582294	30.91%	2.976%
28	9.018	1347	1352	1356	rBV3	37831	56536	1.10%	0.106%
29	9.099	1362	1367	1369	rBV3	36814	49194	0.96%	0.093%
30	9.120	1369	1371	1375	rVB2	65192	60568	1.18%	0.114%
31	9.184	1376	1383	1386	rBV2	44663	52550	1.03%	0.099%
32	9.216	1386	1389	1395	rBV	178192	159467	3.11%	0.300%
33	9.307	1398	1406	1408	rBV3	66198	104639	2.04%	0.197%
34	9.334	1408	1411	1418	rVB2	42403	59190	1.16%	0.111%
35	9.414	1423	1426	1428	rBV	39795	40186	0.78%	0.076%
36	9.500	1436	1442	1446	rBV3	37170	52761	1.03%	0.099%
37	9.553	1446	1452	1457	rVB3	50442	54800	1.07%	0.103%
38	9.666	1469	1473	1479	rVB2	77353	76681	1.50%	0.144%
39	9.719	1479	1483	1485	rBV	56828	67456	1.32%	0.127%
40	9.741	1485	1487	1489	rVB2	44857	34468	0.67%	0.065%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7995.D
Acq On : 01 Jul 2024 03:16 pm
Operator : karimam
Sample : jd91204-3
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.767	1489	1492	1495	rBV	35726	32236	0.63%	0.061%
42	9.837	1499	1505	1510	rBV3	27133	45409	0.89%	0.085%
43	9.880	1510	1513	1517	rVB	168058	138017	2.70%	0.260%
44	9.960	1517	1528	1544	rBV	4443399	5119781	100.00%	9.631%
45	10.061	1544	1547	1551	rVB2	36430	36699	0.72%	0.069%
46	10.094	1551	1553	1557	rBV4	29685	31791	0.62%	0.060%
47	10.131	1557	1560	1566	rVB6	24314	33130	0.65%	0.062%
48	10.195	1566	1572	1579	rBV4	67265	108769	2.12%	0.205%
49	10.313	1588	1594	1599	rBV	191404	218606	4.27%	0.411%
50	10.350	1599	1601	1605	rVB2	58984	51615	1.01%	0.097%
51	10.414	1611	1613	1616	rBV4	26919	32677	0.64%	0.061%
52	10.500	1621	1629	1635	rBV	296185	321075	6.27%	0.604%
53	10.554	1635	1639	1641	rBV	56291	51768	1.01%	0.097%
54	10.602	1641	1648	1649	rBV2	262995	457518	8.94%	0.861%
55	10.794	1680	1684	1687	rVB	101336	104360	2.04%	0.196%
56	10.848	1687	1694	1699	rBV	156739	178319	3.48%	0.335%
57	10.917	1699	1707	1710	rVV	796751	768566	15.01%	1.446%
58	10.949	1710	1713	1722	rVV	346959	566357	11.06%	1.065%
59	11.014	1722	1725	1727	rVV2	26921	32911	0.64%	0.062%
60	11.040	1727	1730	1733	rVV	57535	63019	1.23%	0.119%
61	11.078	1733	1737	1742	rVV	1712205	1465327	28.62%	2.756%
62	11.137	1742	1748	1751	rVV2	158853	211336	4.13%	0.398%
63	11.179	1751	1756	1763	rVV4	477712	1166799	22.79%	2.195%
64	11.227	1763	1765	1769	rVV	397713	458361	8.95%	0.862%
65	11.270	1769	1773	1786	rVV	3642546	4037224	78.86%	7.594%
66	11.361	1786	1790	1797	rVV	224232	353917	6.91%	0.666%
67	11.431	1797	1803	1812	rVV7	103520	329563	6.44%	0.620%
68	11.506	1812	1817	1826	rVV	765002	953268	18.62%	1.793%
69	11.575	1826	1830	1832	rVV4	55745	86460	1.69%	0.163%
70	11.597	1832	1834	1840	rVV7	45698	101697	1.99%	0.191%
71	11.671	1840	1848	1853	rVV	2728672	3046323	59.50%	5.730%
72	11.714	1853	1856	1859	rVV4	74766	112256	2.19%	0.211%
73	11.752	1859	1863	1872	rVV	268197	426100	8.32%	0.802%
74	11.832	1872	1878	1891	rVV2	251739	660560	12.90%	1.243%
75	11.923	1891	1895	1902	rVB6	60917	92146	1.80%	0.173%
76	12.014	1902	1912	1924	rBV2	178239	510712	9.98%	0.961%
77	12.115	1925	1931	1935	rVB	81146	106250	2.08%	0.200%
78	12.206	1936	1948	1957	rBV	586249	853788	16.68%	1.606%
79	12.319	1964	1969	1974	rBV2	142469	201956	3.94%	0.380%
80	12.367	1974	1978	1981	rBV5	103183	152008	2.97%	0.286%
81	12.410	1981	1986	1994	rVV	804925	1246491	24.35%	2.345%
82	12.479	1994	1999	2002	rVV3	100477	144518	2.82%	0.272%
83	12.527	2002	2008	2018	rVB	409264	685601	13.39%	1.290%
84	12.618	2018	2025	2034	rBV3	166768	457516	8.94%	0.861%
85	12.773	2044	2054	2067	rBV7	293432	1204317	23.52%	2.265%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7995.D
Acq On : 01 Jul 2024 03:16 pm
Operator : karimam
Sample : jd91204-3
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.875	2067	2073	2077	rVV7	73233	187067	3.65%	0.352%
87	12.923	2077	2082	2088	rVV4	95039	187916	3.67%	0.353%
88	12.998	2088	2096	2112	rVB3	201128	456894	8.92%	0.859%
89	13.132	2112	2121	2130	rVV2	272208	587731	11.48%	1.106%
90	13.233	2130	2140	2142	rVV2	61410	152153	2.97%	0.286%
91	13.260	2143	2145	2150	rVV5	71127	141855	2.77%	0.267%
92	13.319	2150	2156	2164	rVV2	350523	712502	13.92%	1.340%
93	13.388	2164	2169	2183	rVB3	44483	113428	2.22%	0.213%
94	13.554	2185	2200	2214	rVB3	263708	813555	15.89%	1.530%
95	13.720	2218	2231	2238	rBV3	38659	131046	2.56%	0.247%
96	13.784	2238	2243	2252	rVB3	19438	50833	0.99%	0.096%
97	13.950	2265	2274	2295	rBV7	211451	636739	12.44%	1.198%
98	14.239	2319	2328	2334	rBV8	26092	99197	1.94%	0.187%
99	14.314	2337	2342	2353	rVV8	49469	146689	2.87%	0.276%
100	14.394	2354	2357	2365	rVB6	36654	72104	1.41%	0.136%

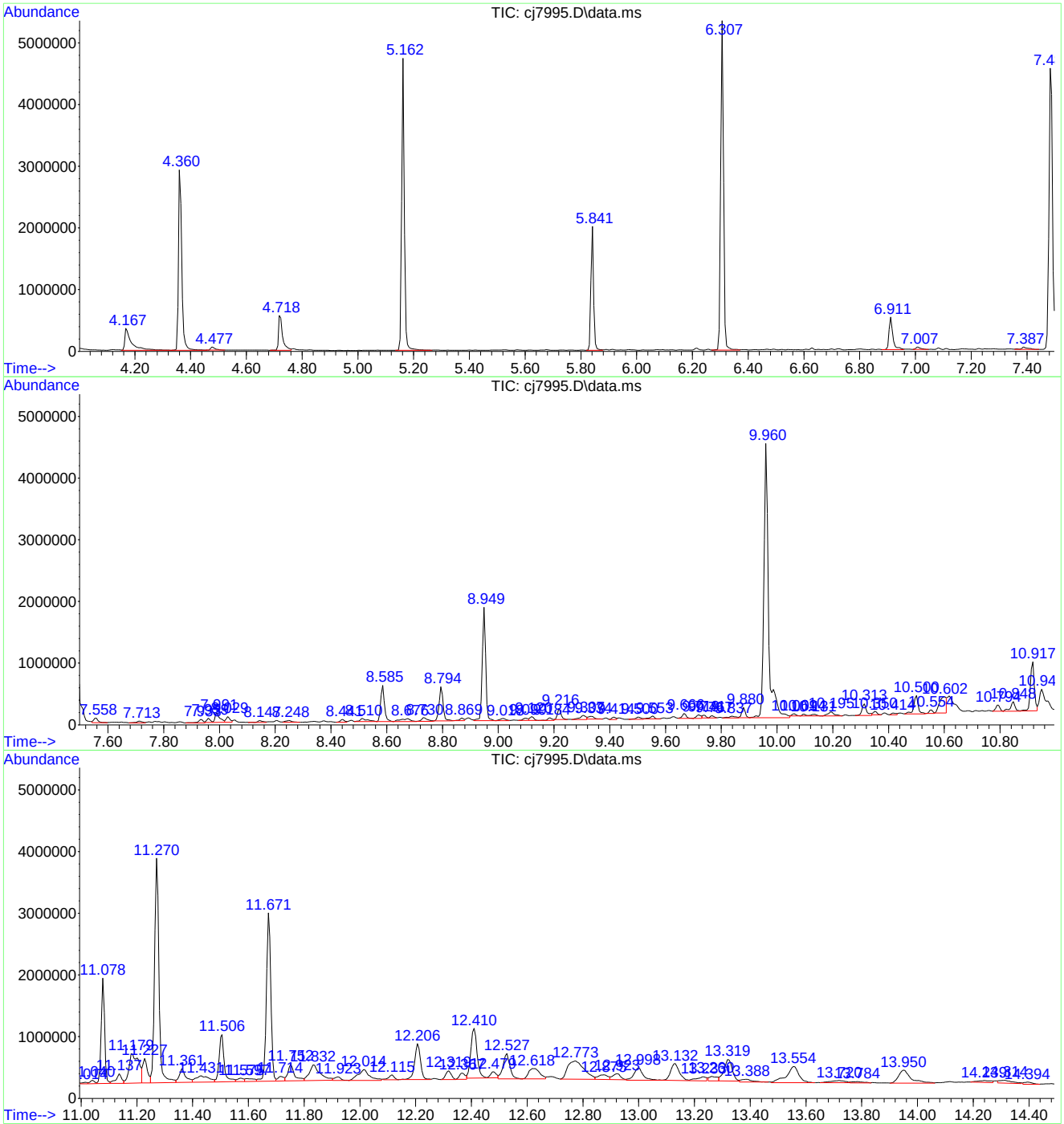
Sum of corrected areas: 53161159

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7995.D
Acq On : 01 Jul 2024 03:16 pm
Operator : karimam
Sample : jd91204-3
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7995.D
Acq On : 01 Jul 2024 03:16 pm
Operator : karimam
Sample : jd91204-3
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

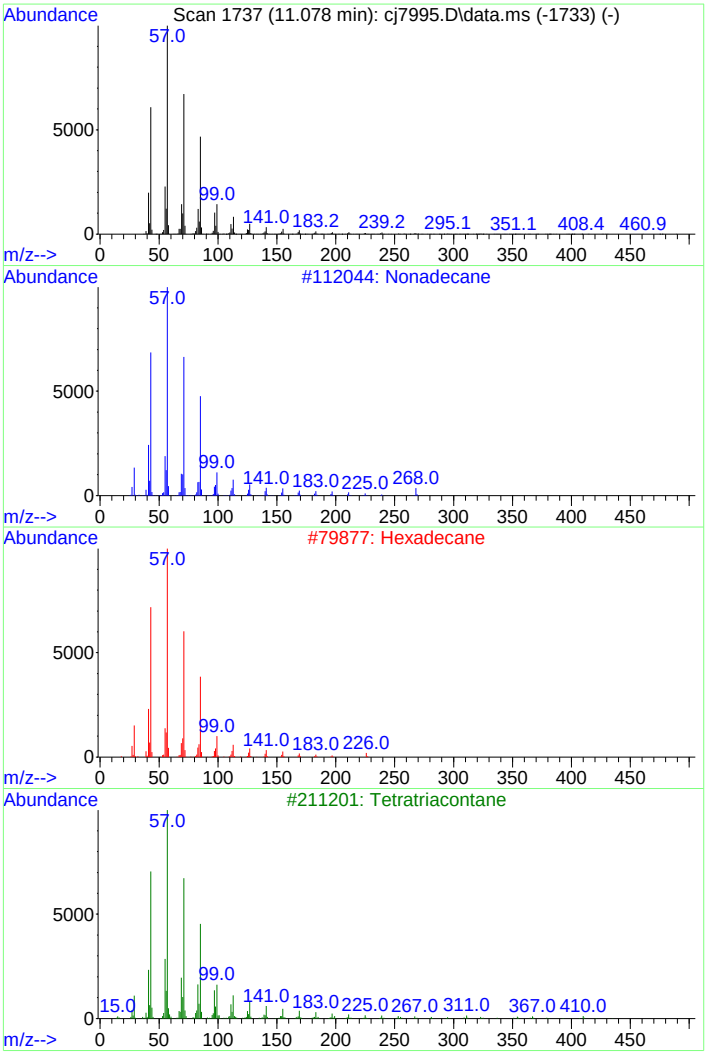
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

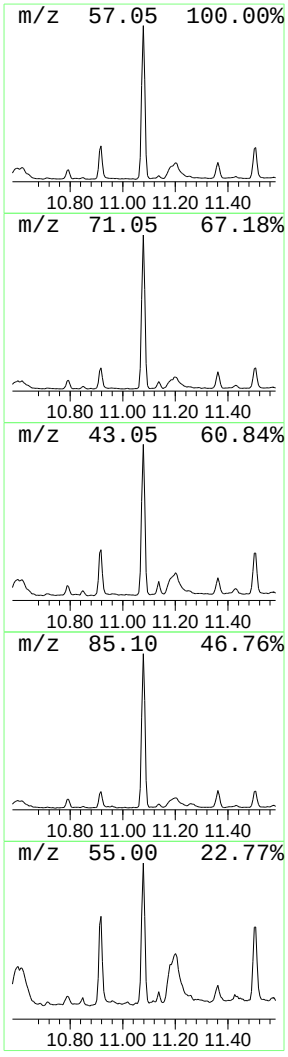
****

Peak Number 1 Alkane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.078	14.52 ppm	1465330	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	95
2	Hexadecane	226	C16H34	000544-76-3	94
3	Tetratriacontane	479	C34H70	014167-59-0	91
4	Heptacosane	380	C27H56	000593-49-7	91
5	Octacosane	394	C28H58	000630-02-4	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7995.D
Acq On : 01 Jul 2024 03:16 pm
Operator : karimam
Sample : jd91204-3
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

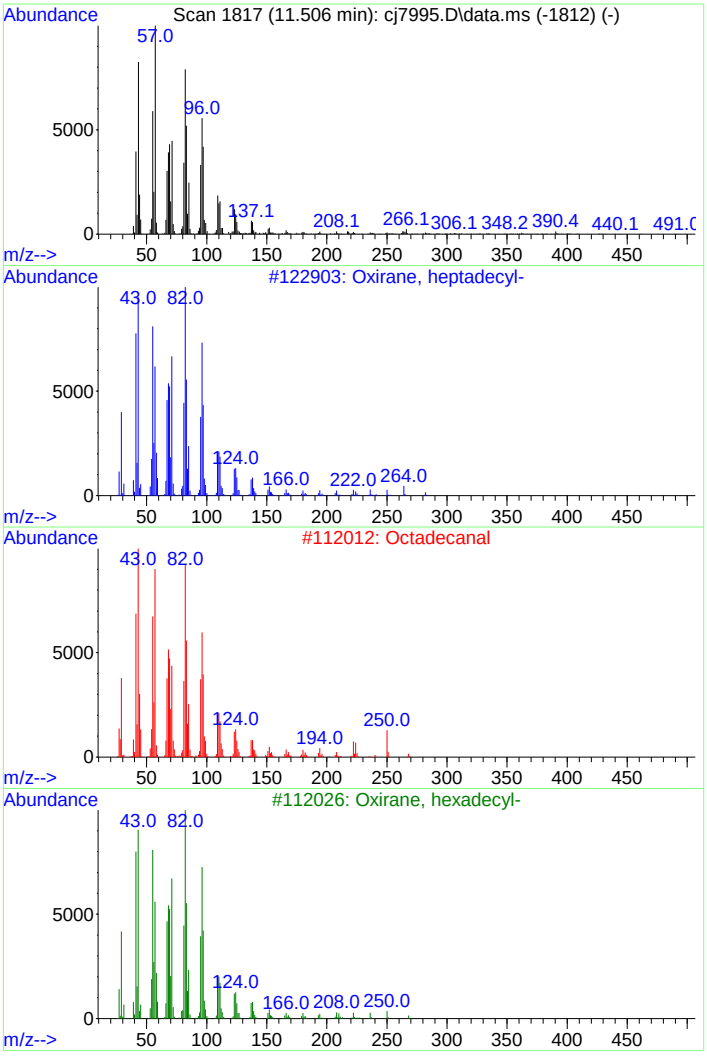
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

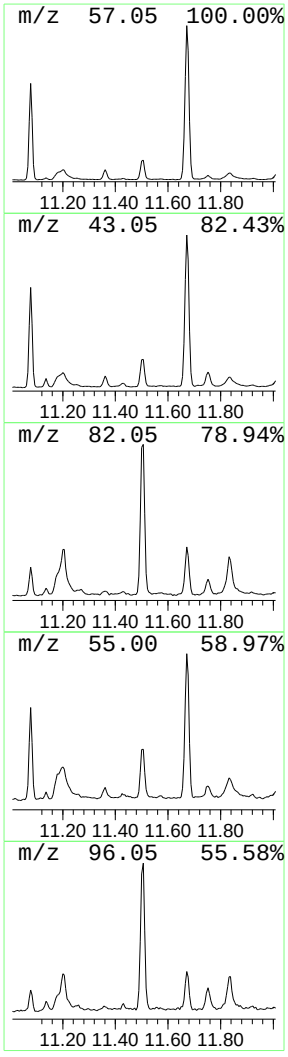
****

Peak Number 2 Unknown acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.506	9.44 ppm	953268	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	91
2	Octadecanal	268	C18H36O	000638-66-4	91
3	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	90
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	90
5	Octadecanal	268	C18H36O	000638-66-4	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7995.D
Acq On : 01 Jul 2024 03:16 pm
Operator : karimam
Sample : jd91204-3
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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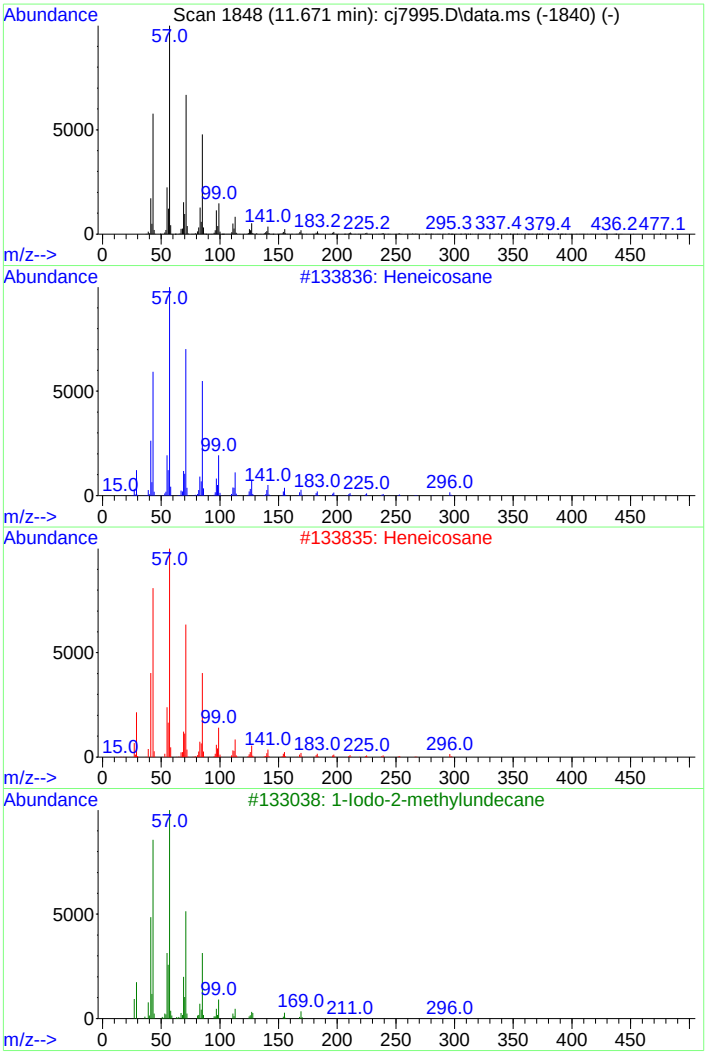
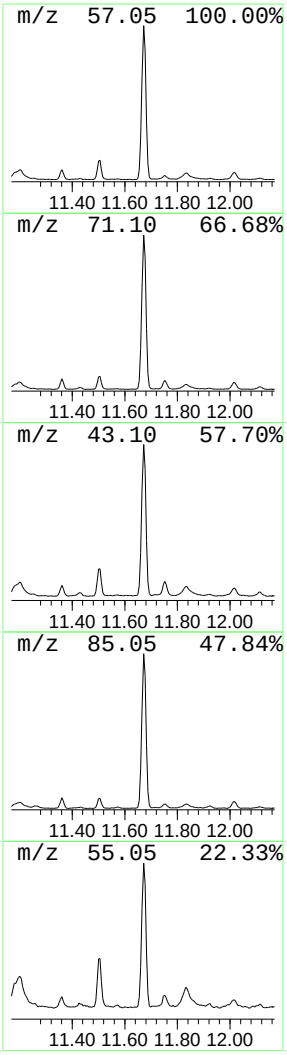
Peak Number 3 Alkane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.671	30.18 ppm	3046320	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	98
2	Heneicosane	296	C21H44	000629-94-7	96
3	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	94
4	Tetratriacontane	479	C34H70	014167-59-0	91
5	Eicosane, 10-methyl-	296	C21H44	054833-23-7	91





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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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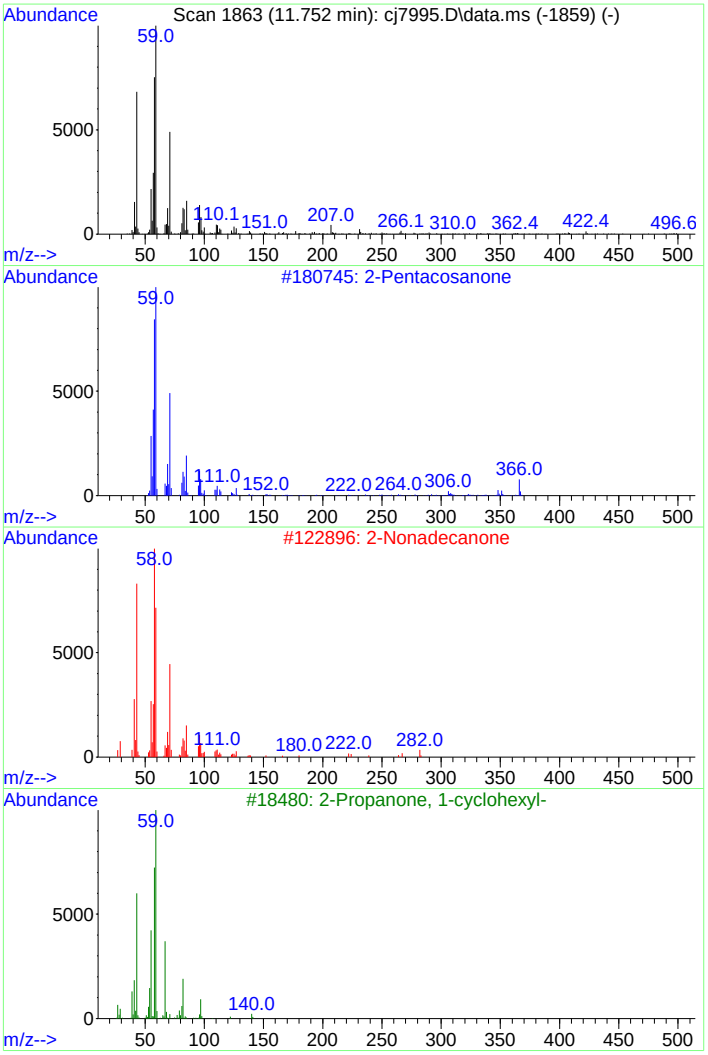
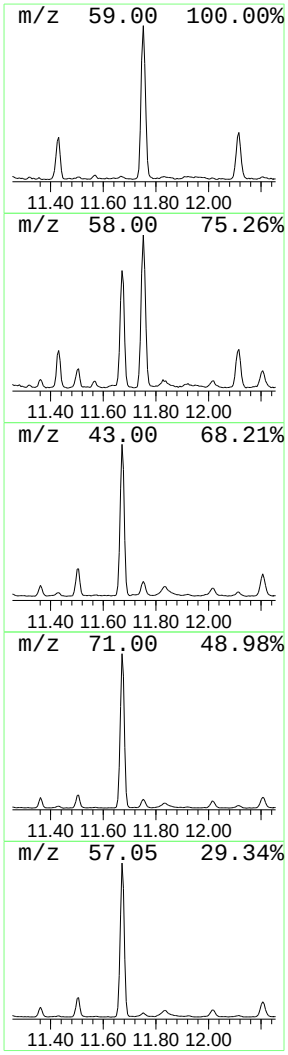
Peak Number 4 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.752	4.22 ppm	426100	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentacosanone	366	C25H50O	075207-54-4	91
2	2-Nonadecanone	282	C19H38O	000629-66-3	64
3	2-Propanone, 1-cyclohexyl-	140	C9H16O	000103-78-6	50
4	2-Tridecanone	198	C13H26O	000593-08-8	50
5	2-Pentadecanone	226	C15H30O	002345-28-0	47





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TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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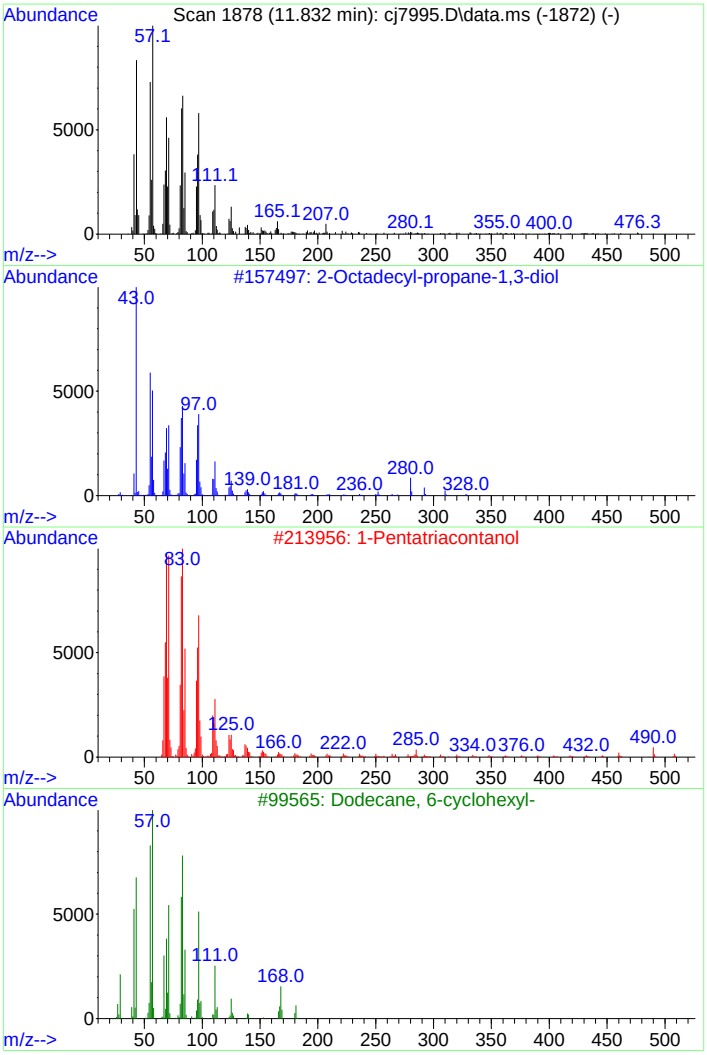
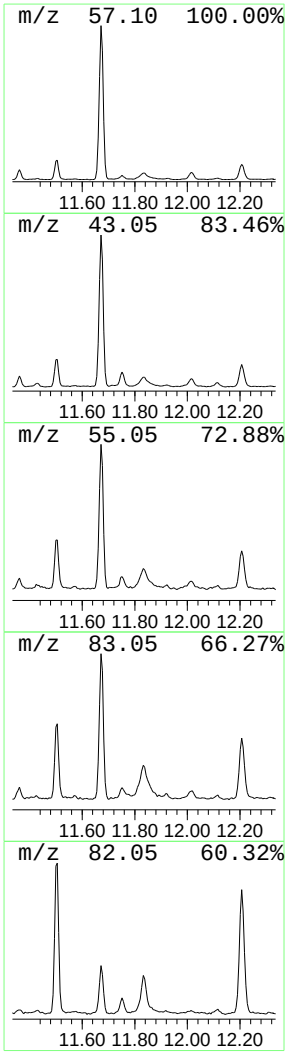
Peak Number 5 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.832	6.54 ppm	660560	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Octadecyl-propane-1,3-diol	328	C21H44O2	005337-61-1	91
2	1-Pentatriacontanol	509	C35H72O	055517-90-3	81
3	Dodecane, 6-cyclohexyl-	252	C18H36	013151-86-5	76
4	Fumaric acid, 2-methylallyl octa...	422	C26H46O4	1000330-55-7	60
5	Dodecane, 5-cyclohexyl-	252	C18H36	013151-85-4	58





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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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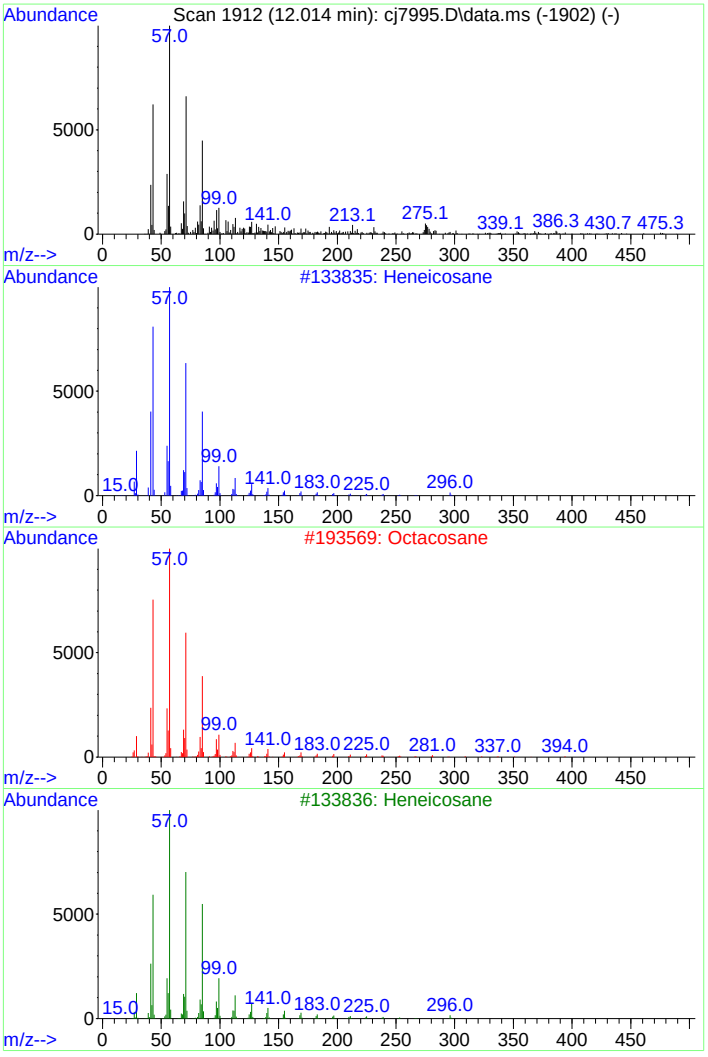
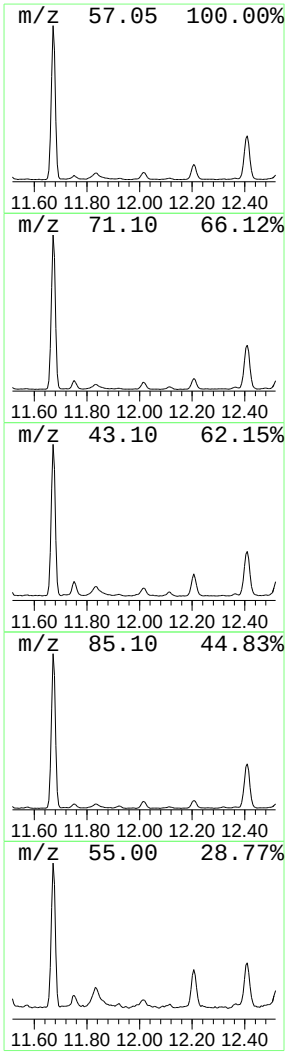
Peak Number 6 Alkane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.014	5.06 ppm	510712	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	96
2	Octacosane	394	C28H58	000630-02-4	94
3	Heneicosane	296	C21H44	000629-94-7	94
4	Tricosane, 2-methyl-	338	C24H50	001928-30-9	91
5	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	91





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Data File : cj7995.D
Acq On : 01 Jul 2024 03:16 pm
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Sample : jd91204-3
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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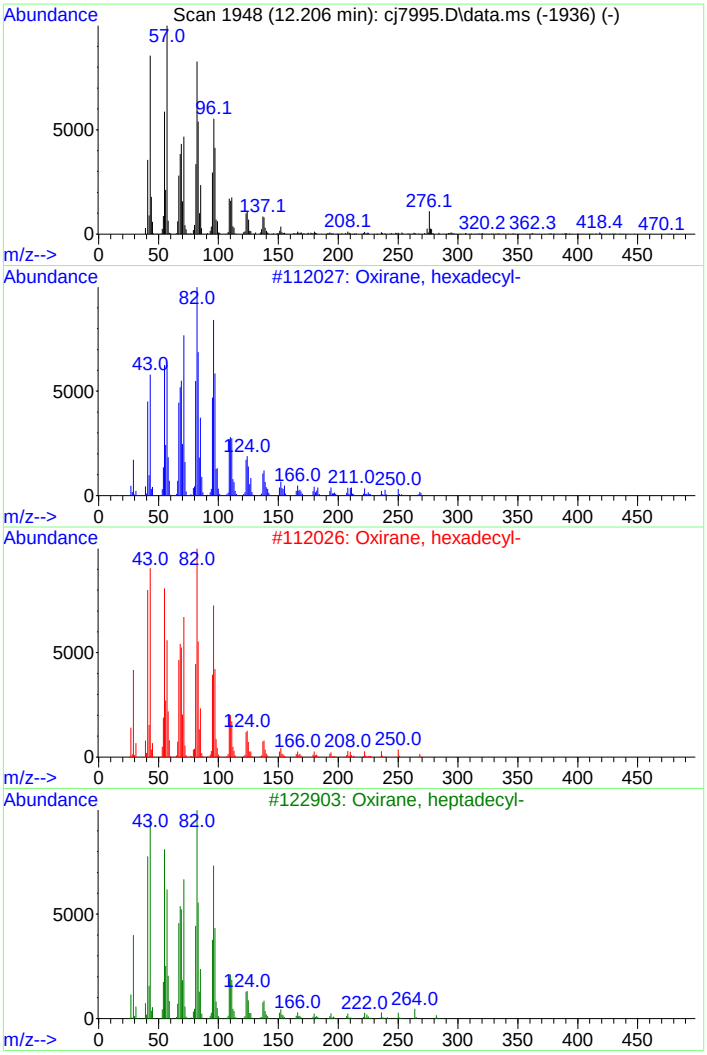
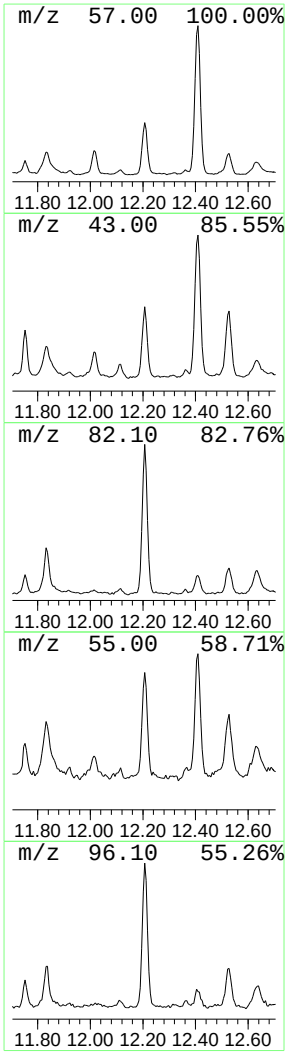
Peak Number 7 Unknown acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.206	8.46 ppm	853788	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
3	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	91
4	Octadecanal	268	C18H36O	000638-66-4	90
5	Octadecanal	268	C18H36O	000638-66-4	80





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Data File : cj7995.D
Acq On : 01 Jul 2024 03:16 pm
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Sample : jd91204-3
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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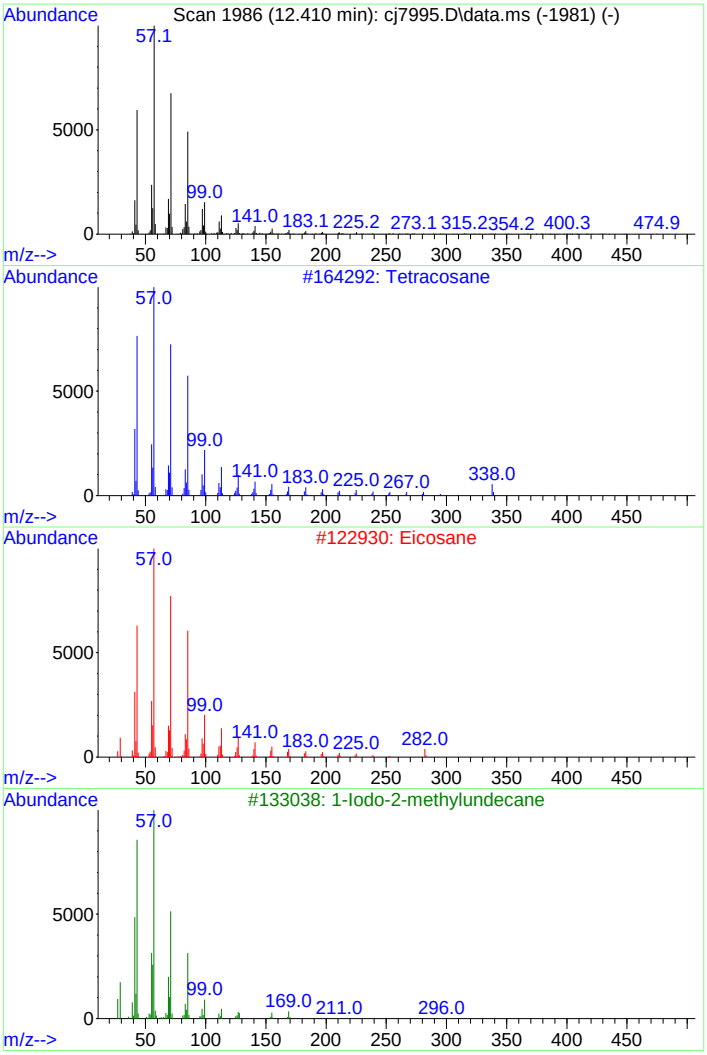
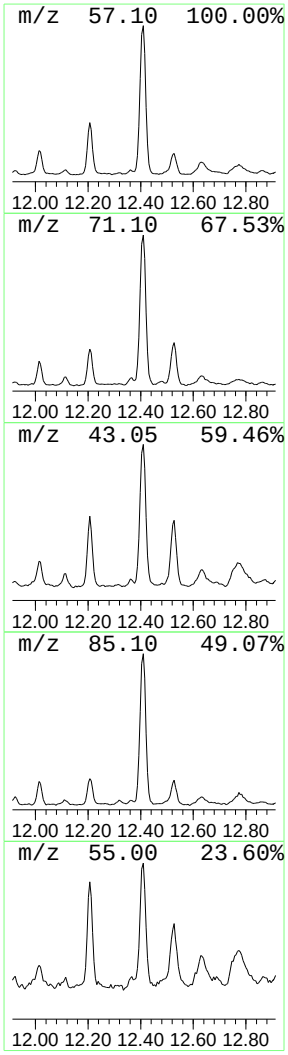
Peak Number 8 Alkane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.410	12.35 ppm	1246490	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	96
2	Eicosane	282	C20H42	000112-95-8	94
3	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	91
4	Heneicosane	296	C21H44	000629-94-7	91
5	Sulfurous acid, butyl dodecyl ester	306	C16H34O3S	1000309-17-9	91





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Acq On : 01 Jul 2024 03:16 pm
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Sample : jd91204-3
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ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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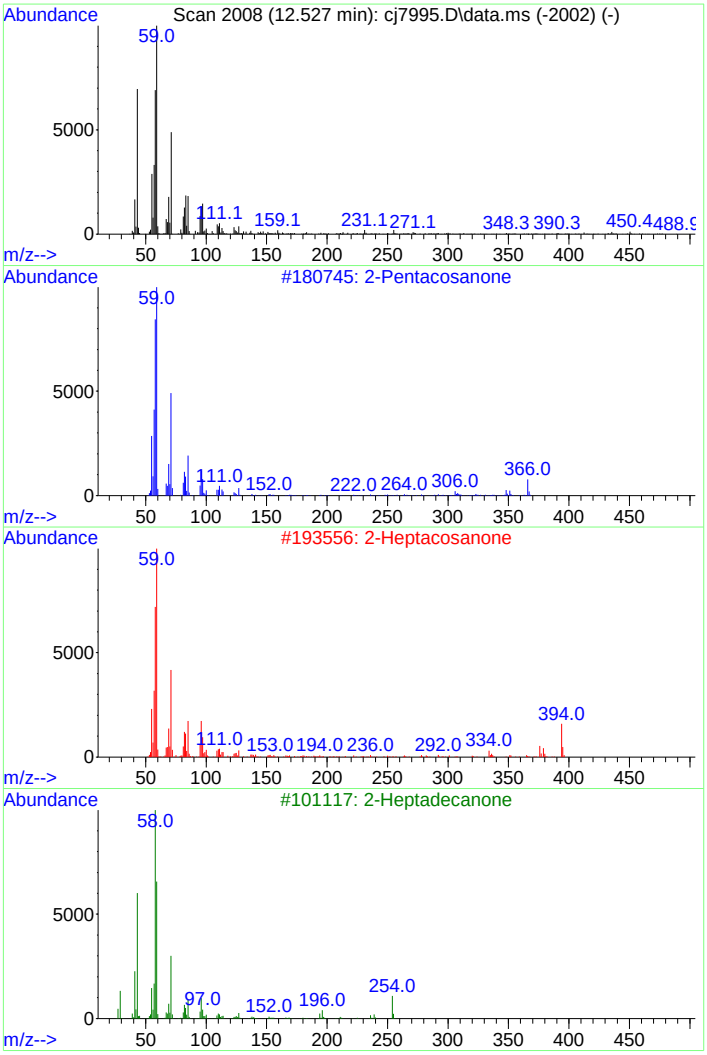
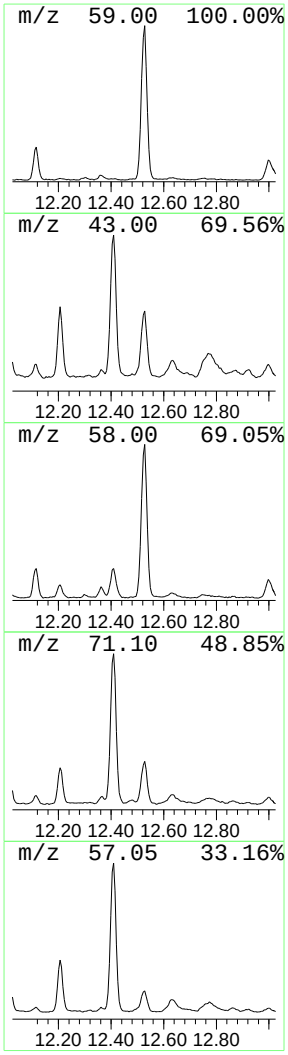
Peak Number 9 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.527	6.79 ppm	685601	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentacosanone	366	C25H50O	075207-54-4	86
2	2-Heptacosanone	394	C27H54O	007796-19-2	64
3	2-Heptadecanone	254	C17H34O	002922-51-2	53
4	Octanal, 7-hydroxy-3,7-dimethyl-	172	C10H20O2	000107-75-5	50
5	Oxirane, 3-ethyl-2,2-dimethyl-	100	C6H12O	001192-22-9	49





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Sample : jd91204-3
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ALS Vial : 11 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
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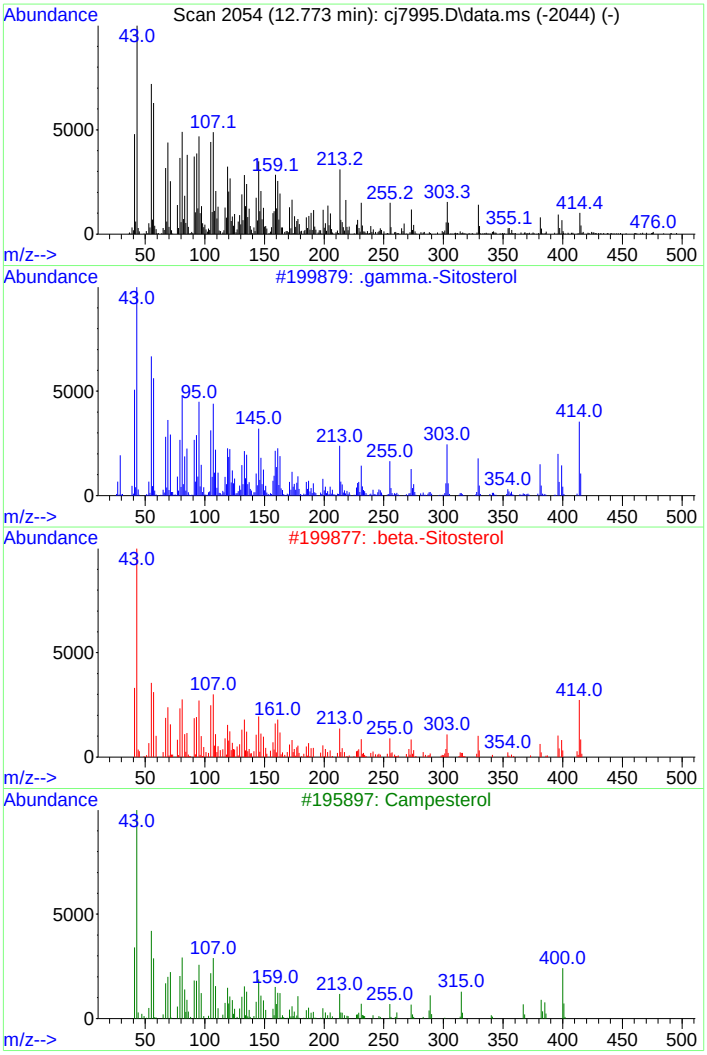
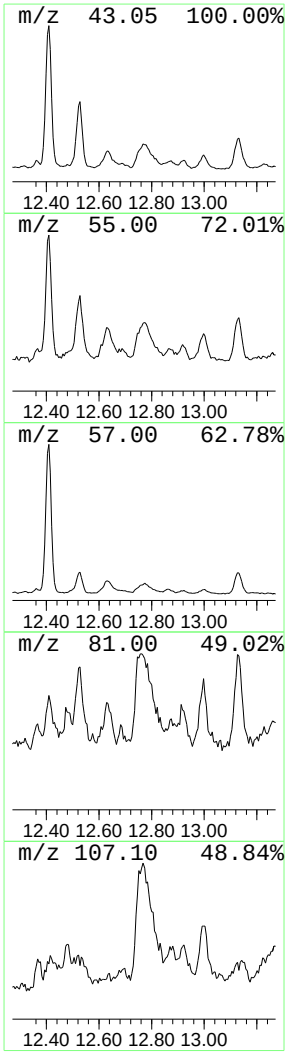
Peak Number 10 Sitosterol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.773	11.93 ppm	1204320	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
3	Campesterol	400	C28H48O	000474-62-4	52
4	.gamma.-Sitosterol	414	C29H50O	000083-47-6	52
5	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	49





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Sample : jd91204-3
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ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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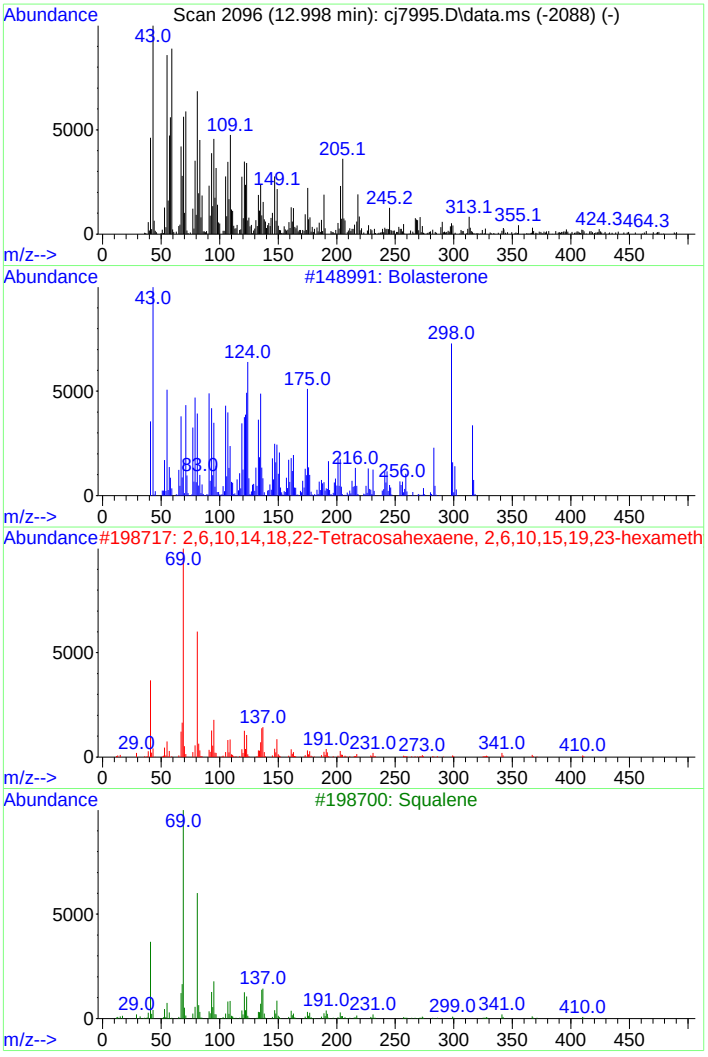
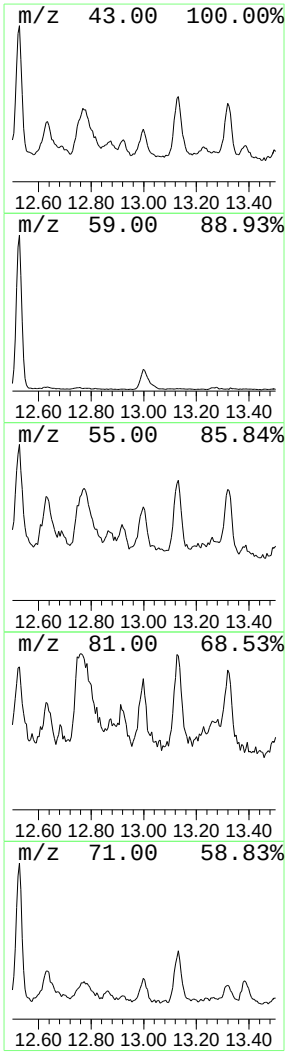
Peak Number 11 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.998	4.53 ppm	456894	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bolasterone	316	C21H32O2	001605-89-6	42
2	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	35
3	Squalene	410	C30H50	007683-64-9	35
4	Non-7-ynamide	153	C9H15NO	1000187-49-0	27
5	Acetic acid, 3-hydroxy-6-isoprop...	278	C17H26O3	1000185-44-8	27





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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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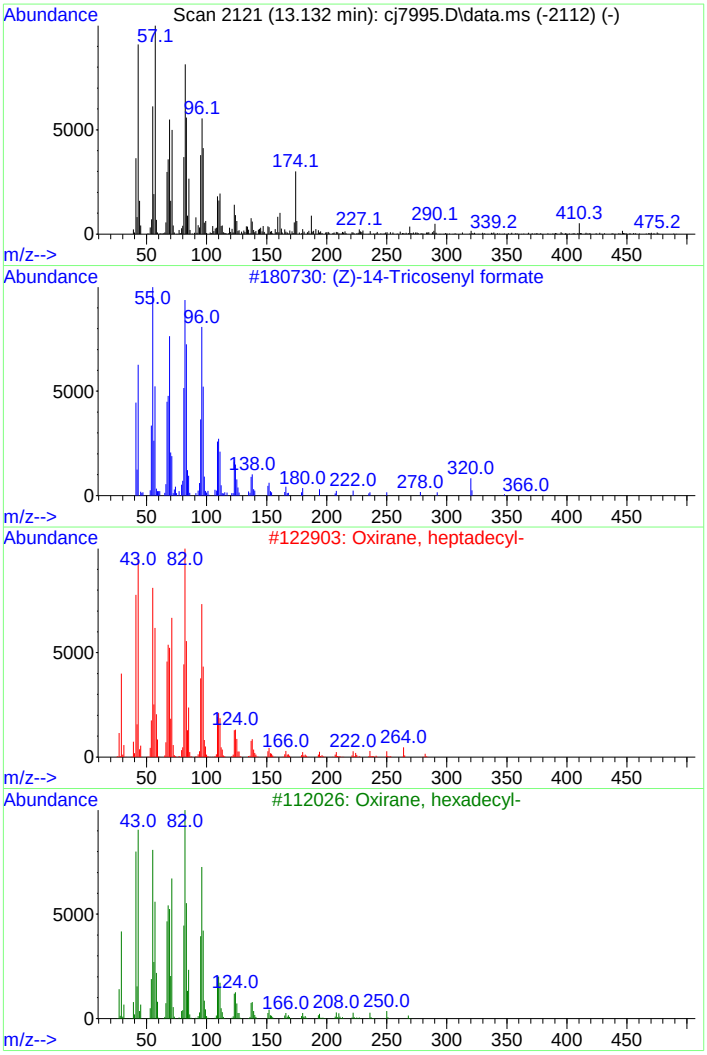
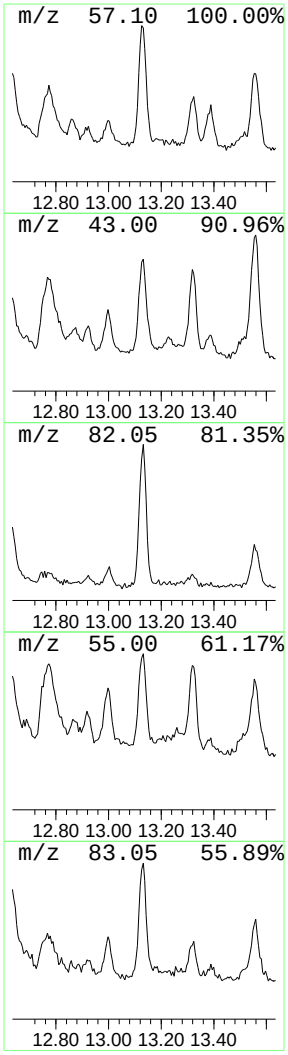
Peak Number 12 Unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.132	5.82 ppm	587731	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	86
2	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	74
3	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	72
4	1,19-Eicosadiene	278	C20H38	014811-95-1	62
5	1,19-Eicosadiene	278	C20H38	014811-95-1	58





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Sample : jd91204-3
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ALS Vial : 11 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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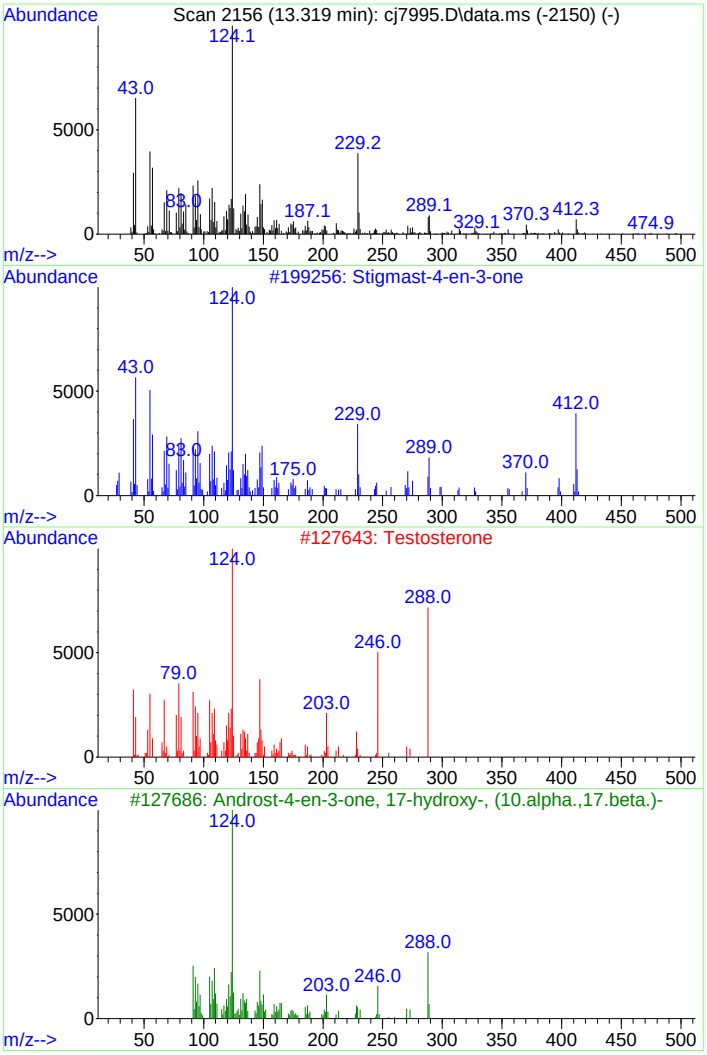
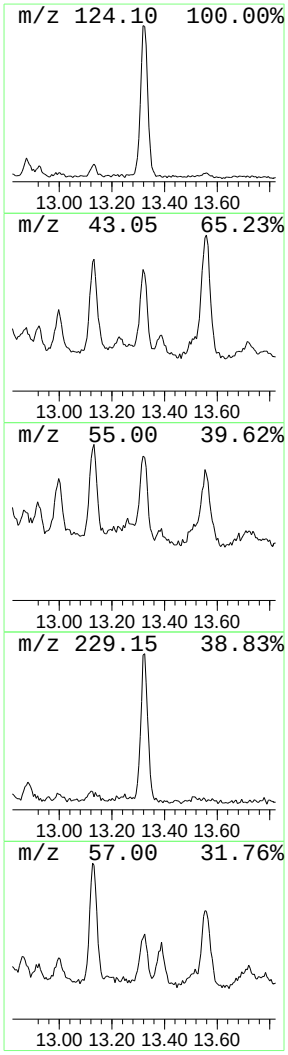
Peak Number 13 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.319	7.06 ppm	712502	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	97
2	Testosterone	288	C19H28O2	000058-22-0	78
3	Androst-4-en-3-one, 17-hydroxy-,...	288	C19H28O2	000604-39-7	50
4	Testosterone	288	C19H28O2	000058-22-0	46
5	Pregn-4-ene-3,20-dione, (9.beta....	314	C21H30O2	002755-10-4	43





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Data File : cj7995.D
Acq On : 01 Jul 2024 03:16 pm
Operator : karimam
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ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

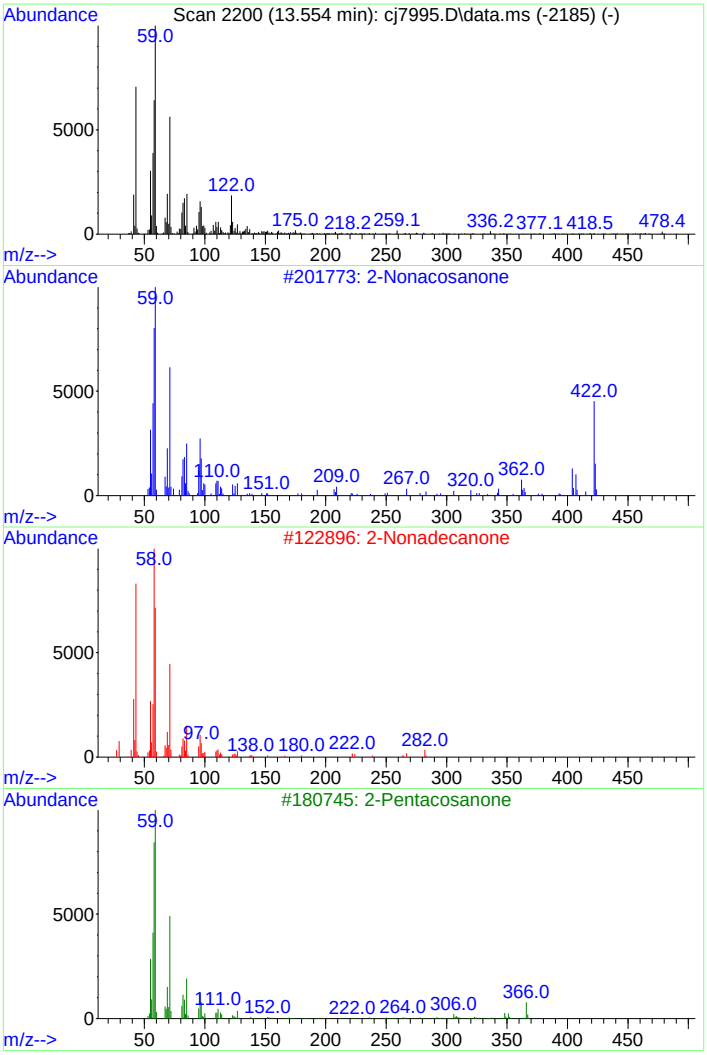
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

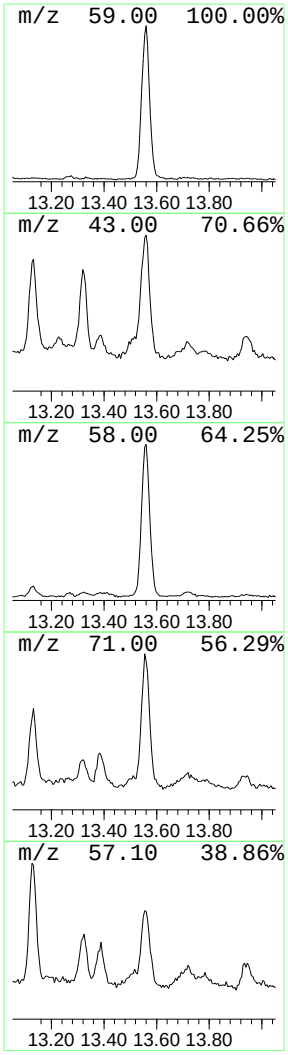
****

Peak Number 14 Unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.554	8.06 ppm	813555	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Nonacosanone	422	C29H58O	017600-99-6	90
2	2-Nonadecanone	282	C19H38O	000629-66-3	64
3	2-Pentacosanone	366	C25H50O	075207-54-4	58
4	Oxirane, 3-ethyl-2,2-dimethyl-	100	C6H12O	001192-22-9	50
5	Carbonic acid, 2-methoxyethyl ne...	190	C9H18O4	1000331-42-7	47





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7995.D
Acq On : 01 Jul 2024 03:16 pm
Operator : karimam
Sample : jd91204-3
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

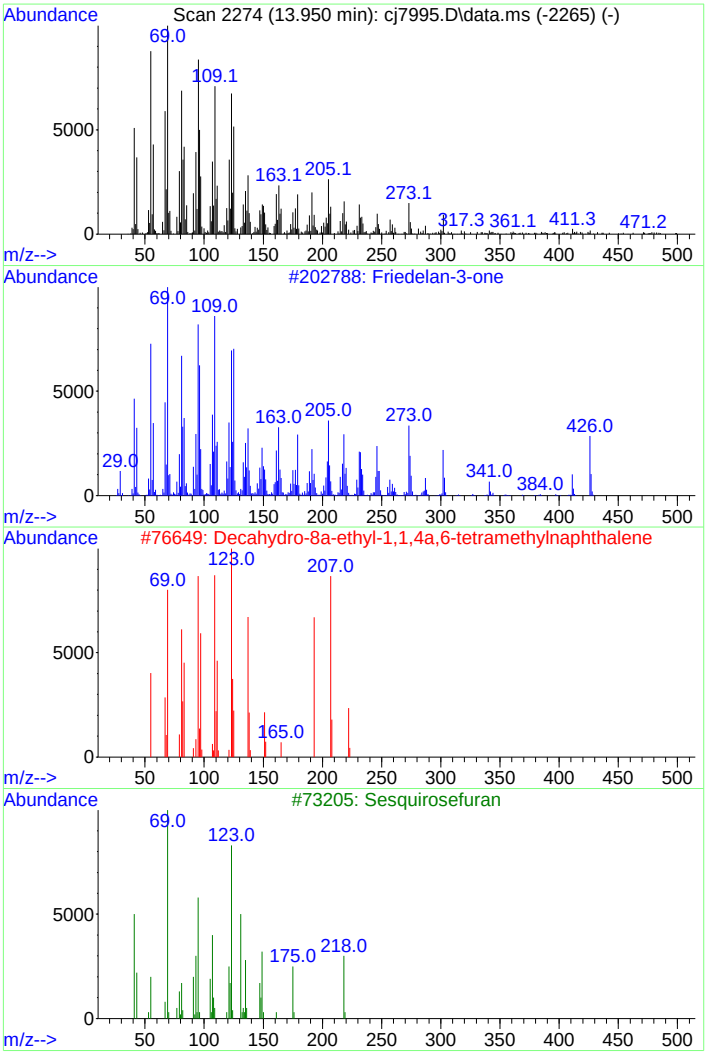
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

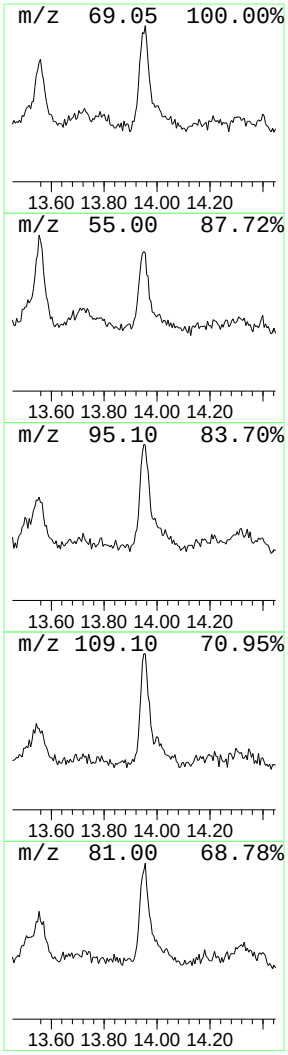
****

Peak Number 15 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.950	6.31 ppm	636739	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Friedelan-3-one	426	C30H50O	000559-74-0	96
2	Decahydro-8a-ethyl-1,1,4a,6-tetr...	222	C16H30	1000100-23-6	86
3	Sesquirosefuran	218	C15H22O	039007-93-7	46
4	(7,7-Dimethyl-2-oxobicyclo[2.2.1...	246	C11H18O4S	1000197-55-6	45
5	Cyclohexane, 1,1,2-trimethyl-3,5...	206	C15H26	062337-97-7	43





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7995.D
Acq On : 01 Jul 2024 03:16 pm
Operator : karimam
Sample : jd91204-3
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
Alkane	11.078	14.5	ppm	1465330	11	11.270	4037220	40.0
Unknown acid	11.506	9.4	ppm	953268	11	11.270	4037220	40.0
Alkane	11.671	30.2	ppm	3046320	11	11.270	4037220	40.0
Unknown	11.752	4.2	ppm	426100	11	11.270	4037220	40.0
Unknown	11.832	6.5	ppm	660560	11	11.270	4037220	40.0
Alkane	12.014	5.1	ppm	510712	11	11.270	4037220	40.0
Unknown acid	12.206	8.5	ppm	853788	11	11.270	4037220	40.0
Alkane	12.410	12.4	ppm	1246490	11	11.270	4037220	40.0
Unknown	12.527	6.8	ppm	685601	11	11.270	4037220	40.0
Sitosterol	12.773	11.9	ppm	1204320	11	11.270	4037220	40.0
Unknown	12.998	4.5	ppm	456894	11	11.270	4037220	40.0
Unknown	13.132	5.8	ppm	587731	11	11.270	4037220	40.0
Unknown	13.319	7.1	ppm	712502	11	11.270	4037220	40.0
Unknown	13.554	8.1	ppm	813555	11	11.270	4037220	40.0
Unknown	13.950	6.3	ppm	636739	11	11.270	4037220	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 07/02/24 05:10

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4 Inst : GCMSCJ
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 02 04:26:03 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	4.365	152	371331	40.00	ppm		0.00
24) Naphthalene-d8	5.162	136	1353146	40.00	ppm		0.00
46) Acenaphthene-d10	6.312	164	767722	40.00	ppm		0.00
69) Phenanthrene-d10	7.489	188	1423047	40.00	ppm		0.00
84) Chrysene-d12	9.971	240	1092383	40.00	ppm		0.01
93) Perylene-d12	11.287	264	1135044	40.00	ppm		0.02
103) 1,4-Dichlorobenzene-d4a	4.365	152	371331	40.00	ppm		0.00
105) Phenanthrene-d10a	7.489	188	1423047	40.00	ppm		0.00
107) Naphthalene-d8a	5.162	136	1353146	40.00	ppm		0.00
109) Phenanthrene-d10b	7.489	188	1423047	40.00	ppm	#	0.00
112) Chrysene-d12a	9.971	240	1092383	40.00	ppm		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	3.552	112	260178	24.38	ppm		0.03
Spiked Amount 50.000			Recovery = 48.76%				
8) Phenol-d5	4.173	99	376718	27.36	ppm		0.02
Spiked Amount 50.000			Recovery = 54.72%				
25) Nitrobenzene-d5	4.718	82	364367	26.30	ppm		0.00
Spiked Amount 50.000			Recovery = 52.60%				
51) 2-Fluorobiphenyl	5.842	172	738271	30.56	ppm		0.00
Spiked Amount 50.000			Recovery = 61.12%				
74) 2,4,6-Tribromophenol	6.917	330	98345	31.52	ppm		0.00
Spiked Amount 50.000			Recovery = 63.04%				
87) Terphenyl-d14	8.960	244	848235	31.43	ppm		0.01
Spiked Amount 50.000			Recovery = 62.86%				
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm		
Spiked Amount 50.000			Recovery = 0.00%				
111) o-terphenyl	0.000	230	0	0.00	ppm		
Spiked Amount 50.000			Recovery = 0.00%				
Target Compounds							Qvalue
18) Acetophenone	4.633	105	3182	0.1864	ppm		77
21) 3&4-Methylphenol	4.660	108	1344	0.1268	ppm		87
38) Naphthalene	5.178	128	16278	0.5022	ppm		98
44) 2-Methylnaphthalene	5.612	141	5339	0.2778	ppm		92
53) Biphenyl	5.911	154	5008	0.1899	ppm		95
56) Acenaphthylene	6.211	152	58591	1.9677	ppm		99
59) Acenaphthene	6.334	153	28606	1.3509	ppm		97
62) Dibenzofuran	6.462	168	14298	0.4866	ppm		97
66) Fluorene	6.719	166	27435m	1.1818	ppm		
78) Phenanthrene	7.510	178	581948	16.9215	ppm		100
79) Anthracene	7.559	178	162002	4.7045	ppm		97
80) Carbazole	7.708	167	57692	1.7979	ppm		98
82) Fluoranthene	8.591	202	1596836	42.8886	ppm		97
86) Pyrene	8.805	202	1392550	37.4842	ppm		100
88) Butylbenzylphthalate	9.436	149	5602	0.3380	ppm		94
89) Benzo[a]anthracene	9.966	228	729364	20.7661	ppm		98
91) Chrysene	9.998	228	732975	22.6190	ppm		99
92) bis(2-Ethylhexyl)phtha...	10.008	149	27195	1.1077	ppm		99
95) Benzo[b]fluoranthene	10.960	252	1008409m	29.4098	ppm		
96) Benzo[k]fluoranthene	10.976	252	314703m	10.1999	ppm		
97) Benzo[a]pyrene	11.238	252	635556	22.3909	ppm		99
98) Indeno[1,2,3-cd]pyrene	12.330	276	448509	13.0706	ppm		86
100) Dibenz[a,h]anthracene	12.330	278	131397	4.7923	ppm		79
102) Benzo[g,h,i]perylene	12.629	276	433284	16.2485	ppm		98
104) Benzaldehyde	4.109	105	8364	0.7869	ppm		93

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4 Inst : GCMSCJ
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 02 04:26:03 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

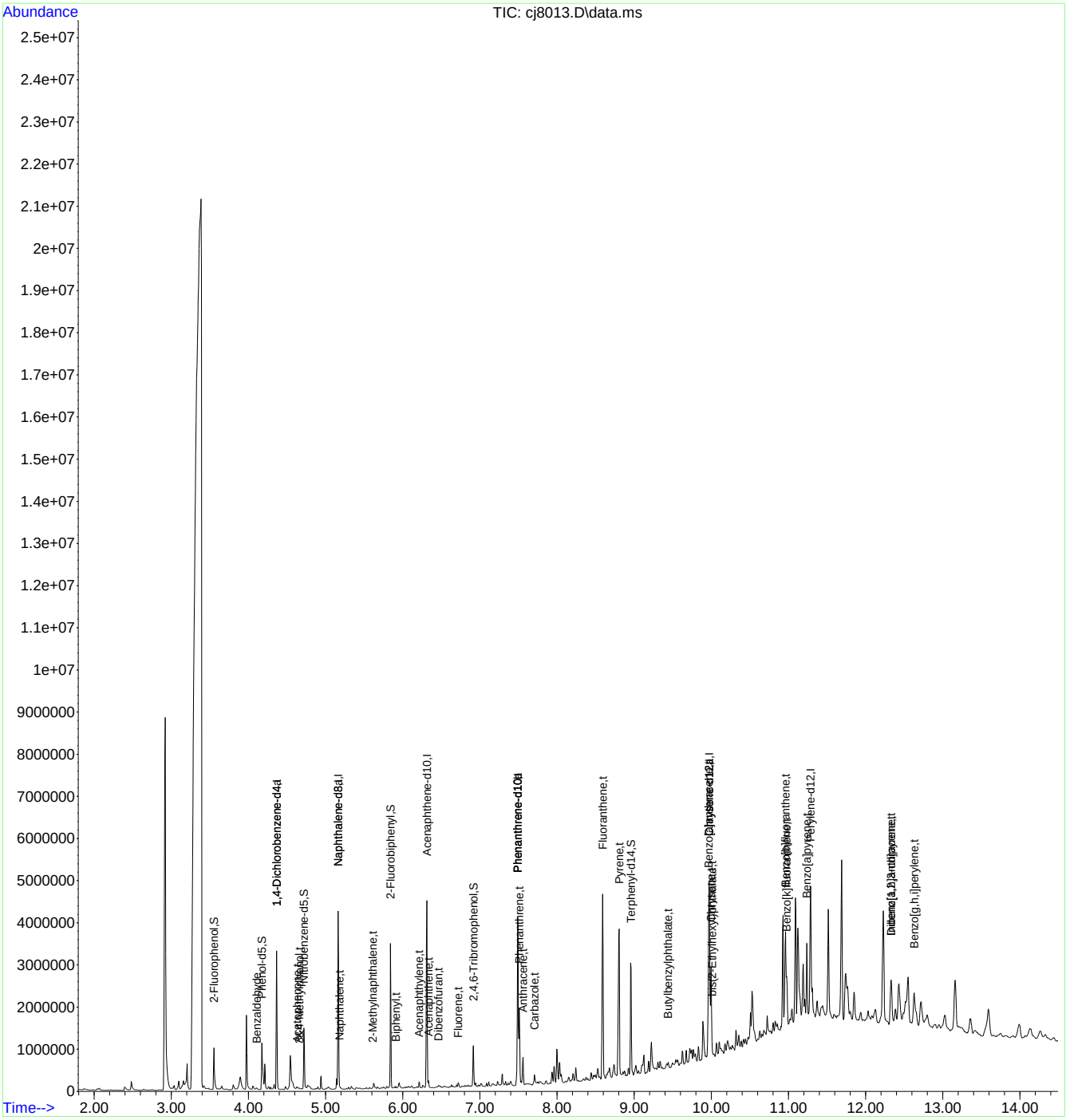
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

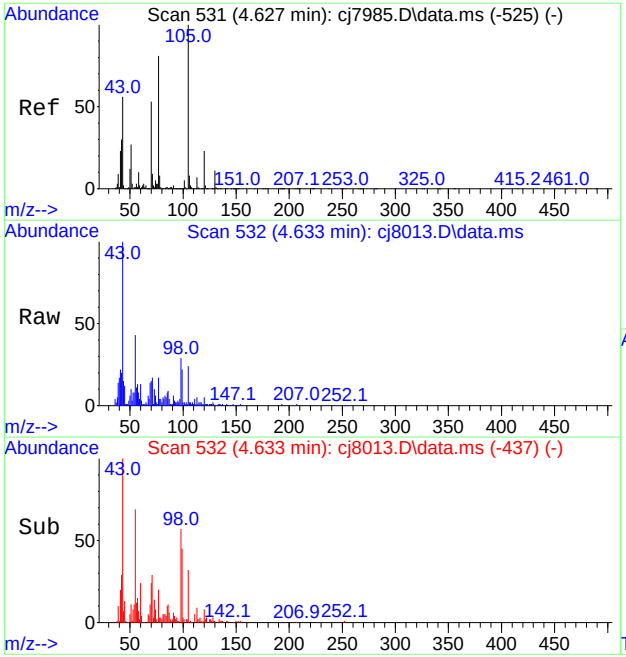
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4 Inst : GCMSCJ
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 02 04:26:03 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

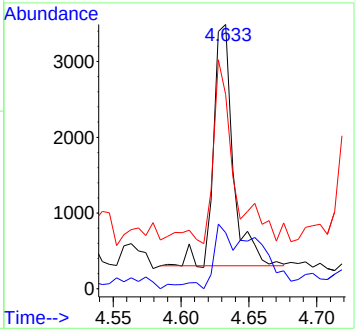


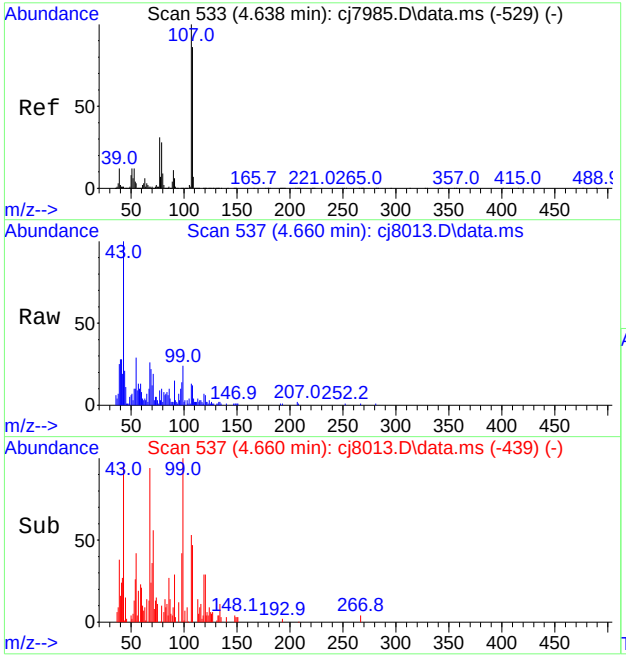


#18
Acetophenone
Concen: 0.1864 ppm
RT: 4.633 min Scan# 532
Delta R.T. 0.006 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:105 Resp: 3182

Ion	Ratio	Lower	Upper
105	100		
120	19.5	0.0	53.1
77	56.8	50.8	110.8

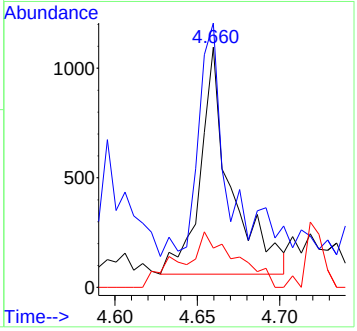


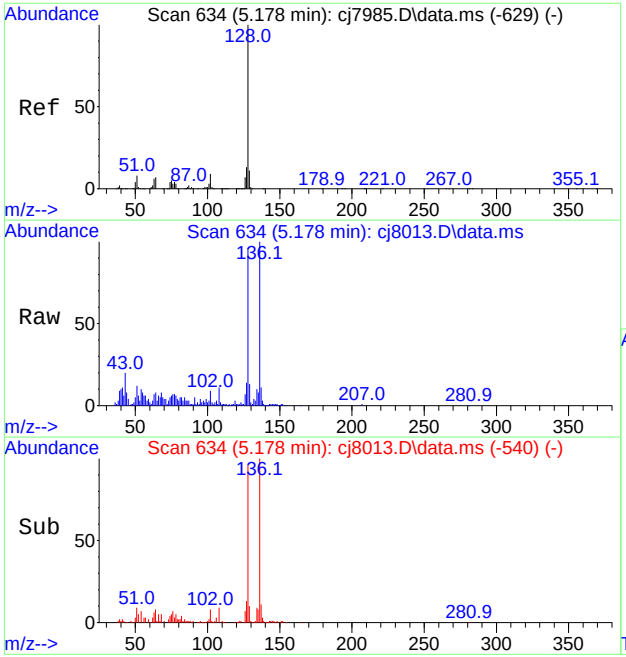


#21
3&4-Methylphenol
Concen: 0.1268 ppm
RT: 4.660 min Scan# 537
Delta R.T. 0.022 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:108 Resp: 1344

Ion	Ratio	Lower	Upper
108	100		
107	101.0	85.6	145.6
90	14.7	0.0	42.2

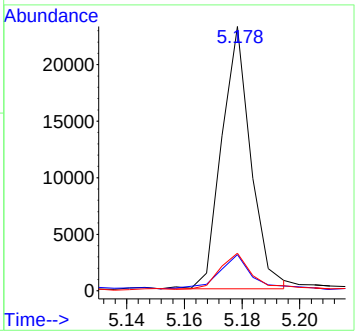


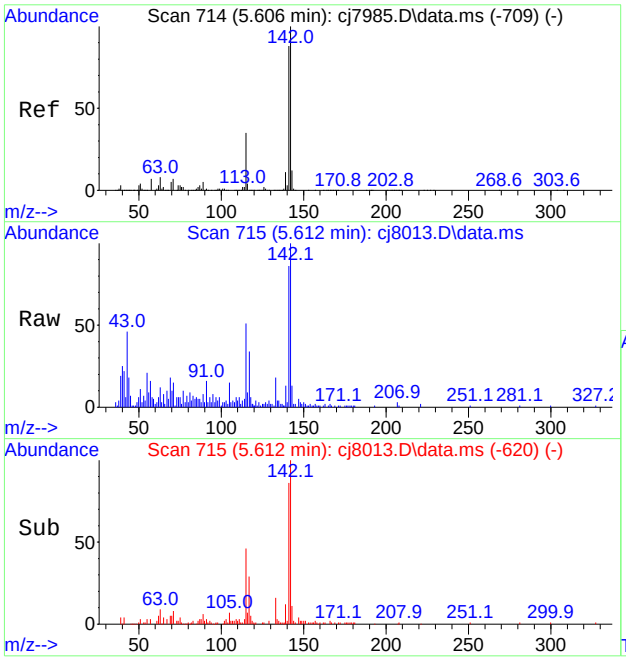


#38
Naphthalene
Concen: 0.5022 ppm
RT: 5.178 min Scan# 634
Delta R.T. 0.000 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:128 Resp: 16278

Ion	Ratio	Lower	Upper
128	100		
129	12.6	0.0	41.3
127	13.1	0.0	43.5

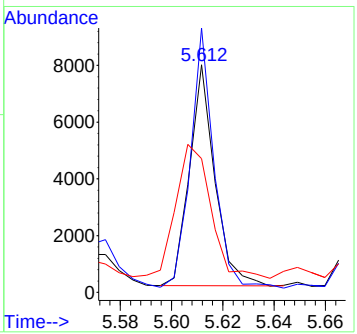


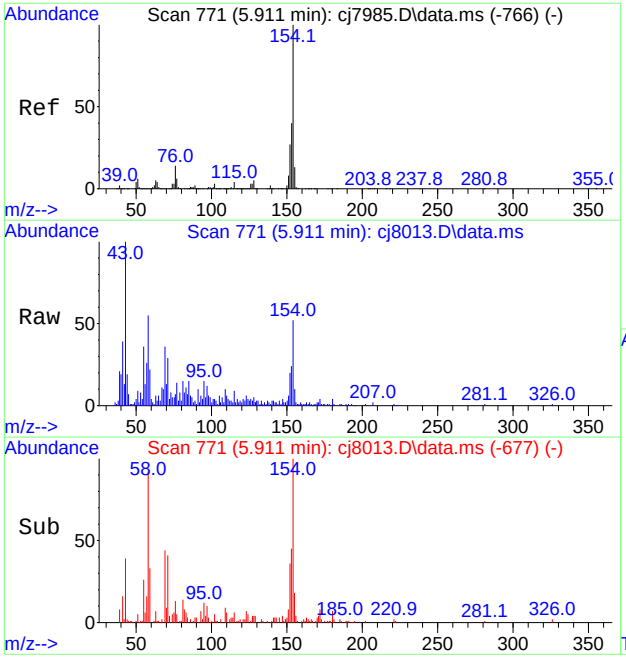


#44
2-Methylnaphthalene
Concen: 0.2778 ppm
RT: 5.612 min Scan# 715
Delta R.T. 0.006 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:141 Resp: 5339

Ion	Ratio	Lower	Upper
141	100		
142	117.8	83.7	143.7
115	50.8	9.3	69.3

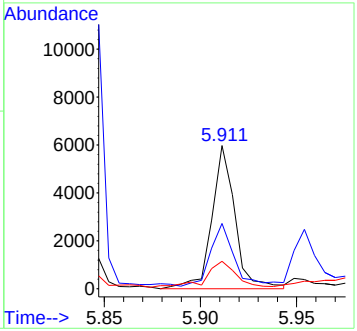


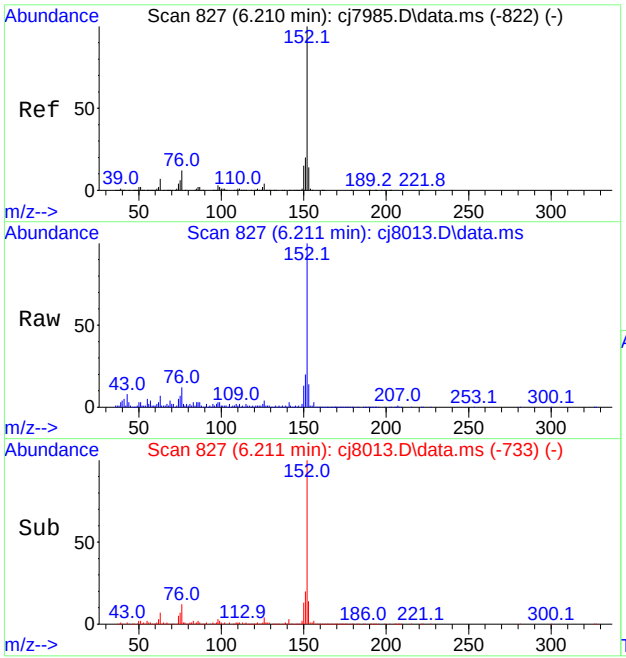


#53
Biphenyl
Concen: 0.1899 ppm
RT: 5.911 min Scan# 771
Delta R.T. 0.000 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:154 Resp: 5008

Ion	Ratio	Lower	Upper
154	100		
153	42.3	10.3	70.3
155	16.9	0.0	42.9

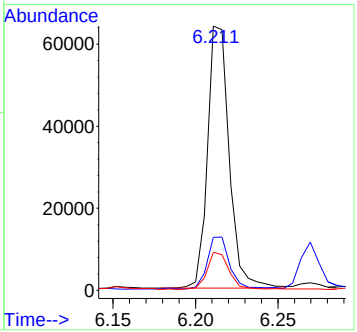


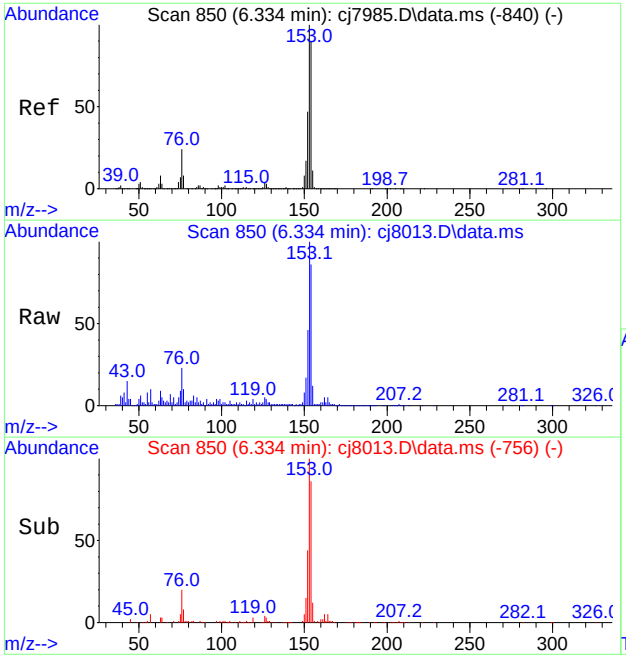


#56
Acenaphthylene
Concen: 1.9677 ppm
RT: 6.211 min Scan# 827
Delta R.T. 0.000 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:152 Resp: 58591

Ion	Ratio	Lower	Upper
152	100		
151	19.6	0.0	50.2
153	14.1	0.0	43.5

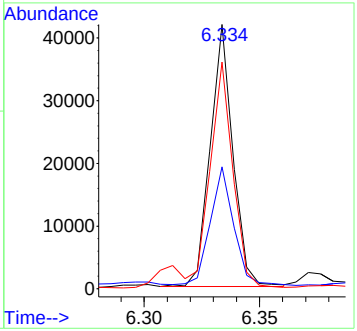


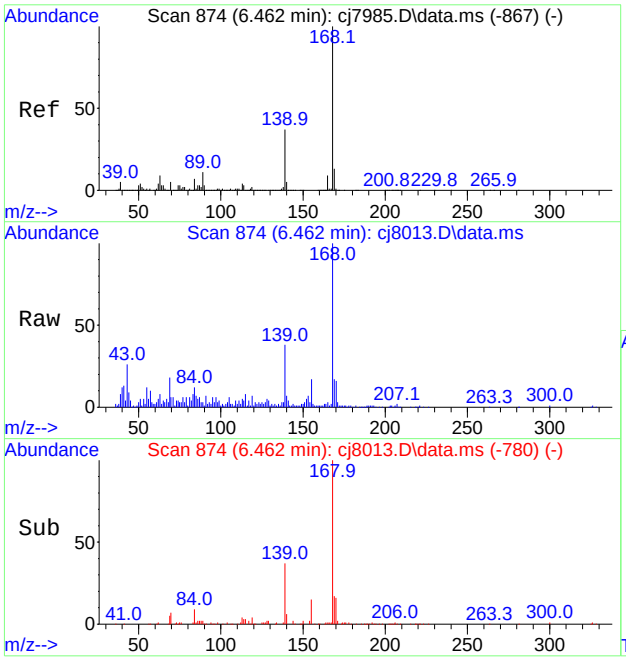


#59
Acenaphthene
Concen: 1.3509 ppm
RT: 6.334 min Scan# 850
Delta R.T. 0.000 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:153 Resp: 28606

Ion	Ratio	Lower	Upper
153	100		
152	45.0	16.9	76.9
154	82.9	56.2	116.2

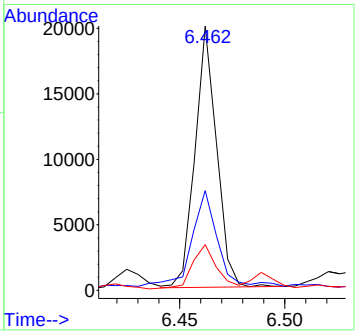


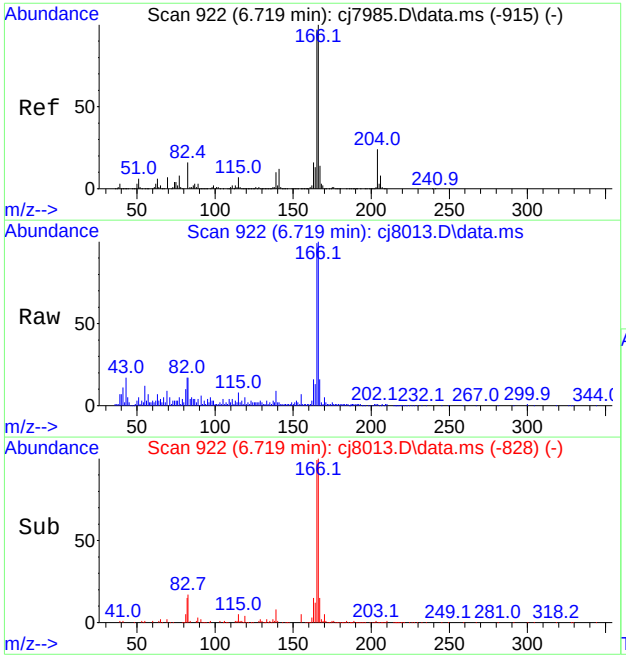


#62
Dibenzofuran
Concen: 0.4866 ppm
RT: 6.462 min Scan# 874
Delta R.T. 0.000 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:168 Resp: 14298

Ion	Ratio	Lower	Upper
168	100		
139	36.0	7.3	67.3
169	16.1	0.0	43.4

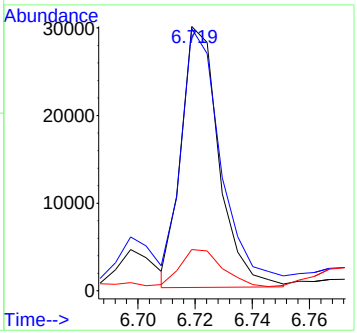


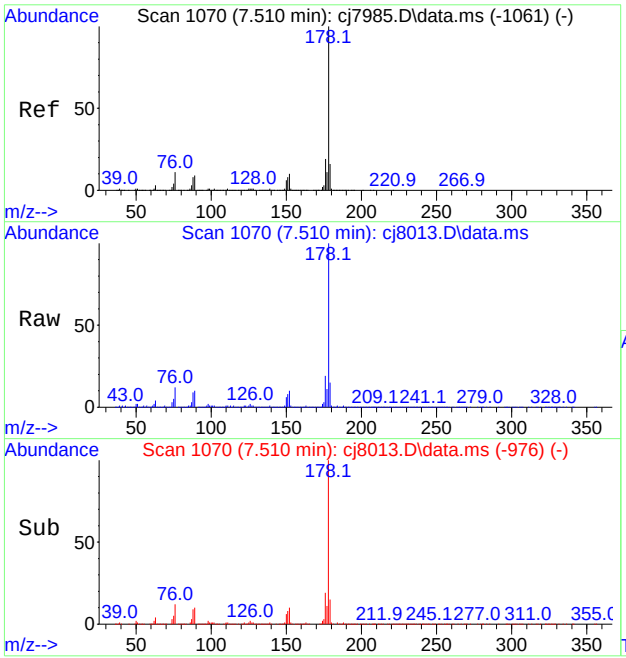


#66
Fluorene
Concen: 1.1818 ppm m
RT: 6.719 min Scan# 922
Delta R.T. 0.000 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:166 Resp: 27435

Ion	Ratio	Lower	Upper
166	100		
165	99.2	67.2	127.2
167	15.6	0.0	43.8

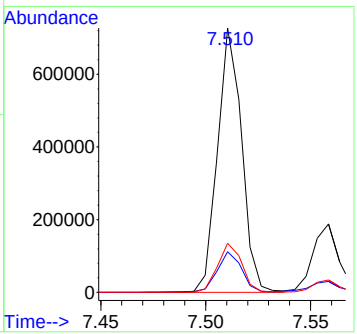


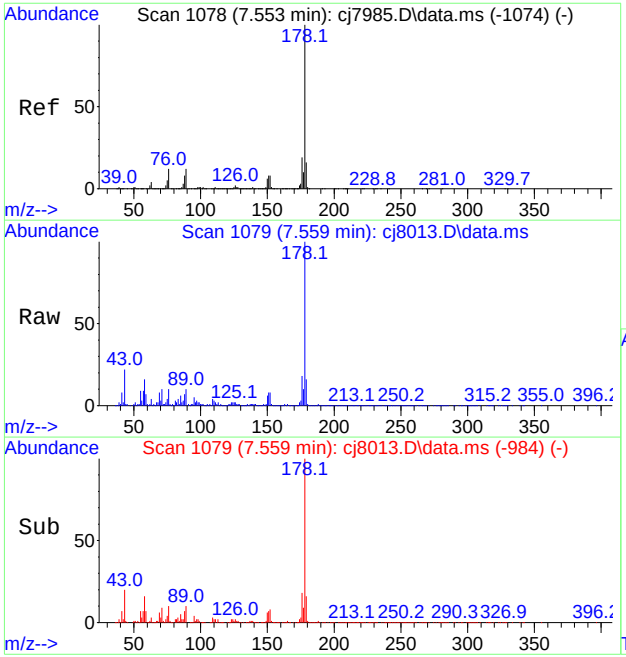


#78
Phenanthrene
Concen: 16.9215 ppm
RT: 7.510 min Scan# 1070
Delta R.T. 0.000 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:178 Resp: 581948

Ion	Ratio	Lower	Upper
178	100		
179	15.2	0.0	45.5
176	18.6	0.0	48.7

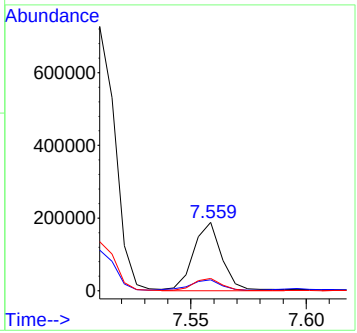


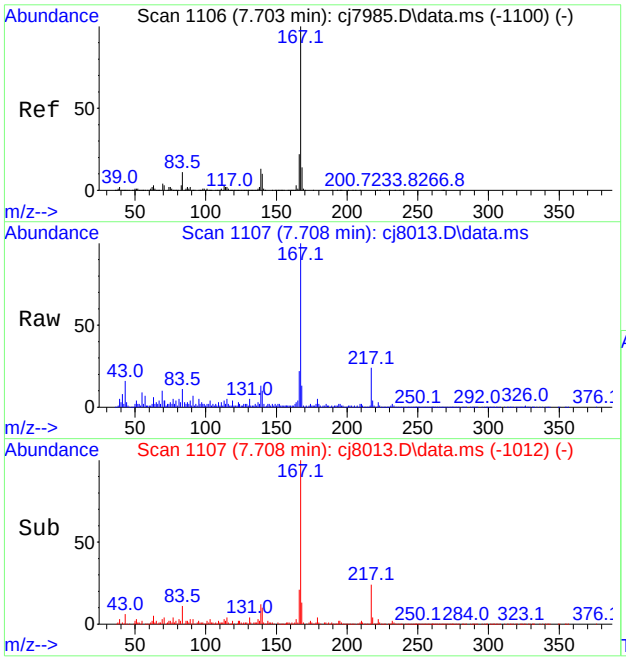


#79
Anthracene
Concen: 4.7045 ppm
RT: 7.559 min Scan# 1079
Delta R.T. 0.006 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:178 Resp: 162002

Ion	Ratio	Lower	Upper
178	100		
179	14.1	0.0	45.9
176	18.1	0.0	48.8

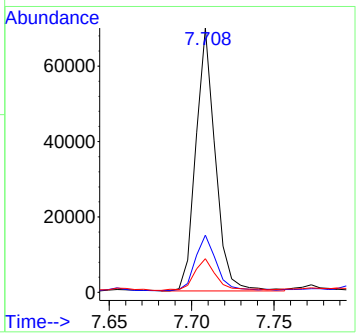


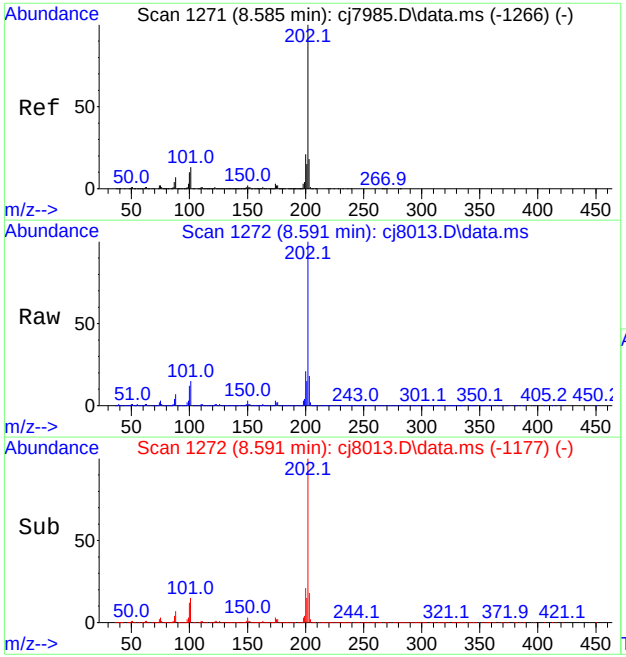


#80
Carbazole
Concen: 1.7979 ppm
RT: 7.708 min Scan# 1107
Delta R.T. 0.006 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:167 Resp: 57692

Ion	Ratio	Lower	Upper
167	100		
166	20.9	0.0	51.7
139	11.8	0.0	42.8

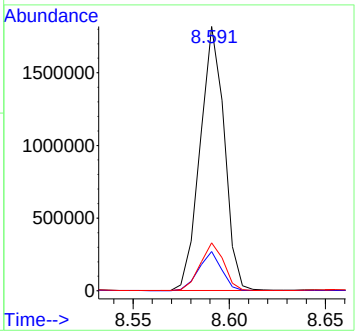


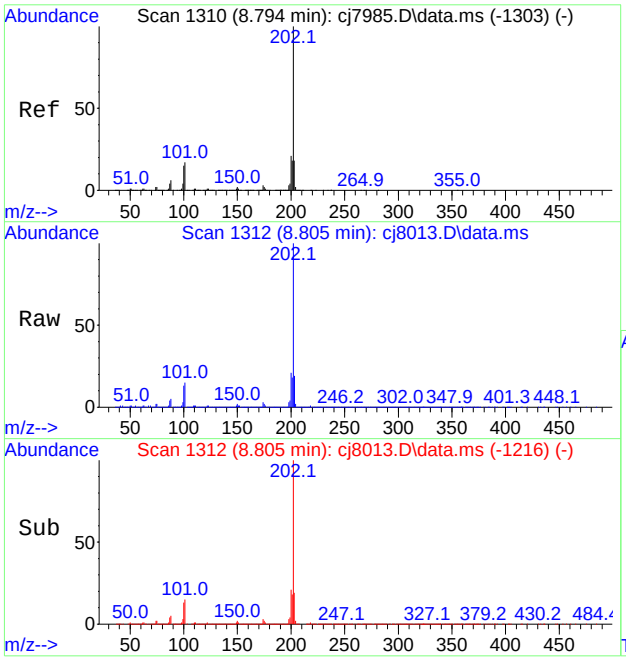


#82
Fluoranthene
Concen: 42.8886 ppm
RT: 8.591 min Scan# 1272
Delta R.T. 0.006 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:202 Resp: 1596836

Ion	Ratio	Lower	Upper
202	100		
101	14.8	0.0	42.9
203	18.1	0.0	47.5

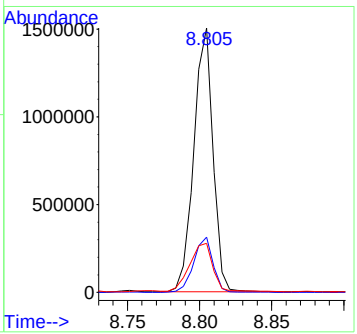


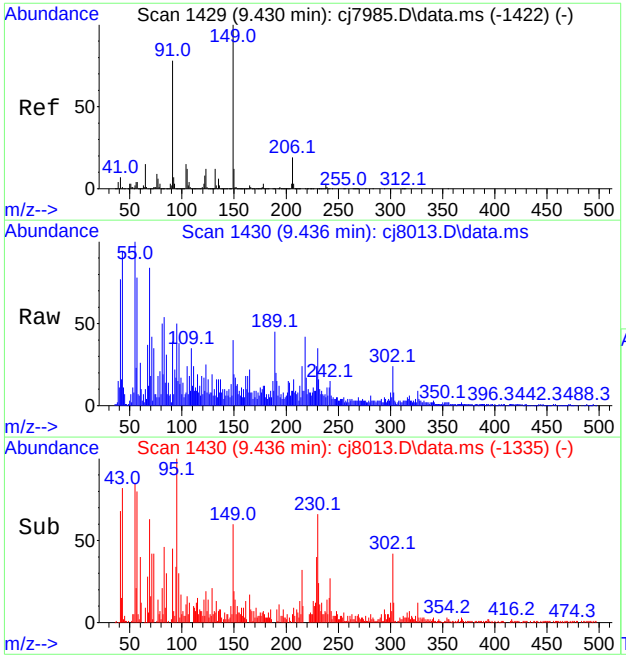


#86
Pyrene
Concen: 37.4842 ppm
RT: 8.805 min Scan# 1312
Delta R.T. 0.011 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:202 Resp: 1392550

Ion	Ratio	Lower	Upper
202	100		
200	20.9	0.0	51.0
203	18.3	0.0	48.5

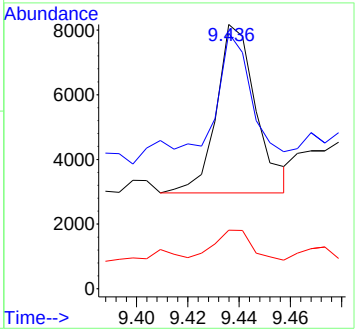


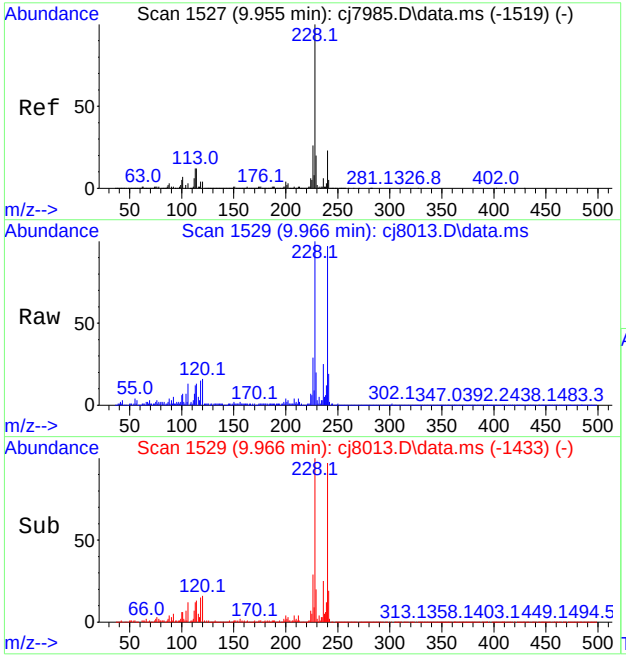


#88
Butylbenzylphthalate
Concen: 0.3380 ppm
RT: 9.436 min Scan# 1430
Delta R.T. 0.006 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:149 Resp: 5602

Ion	Ratio	Lower	Upper
149	100		
91	72.6	47.5	107.5
206	15.8	0.0	49.2

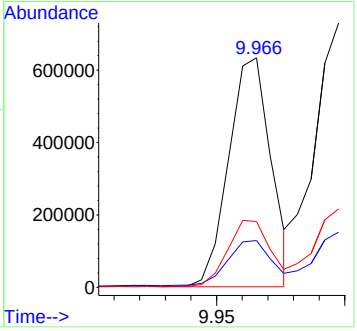


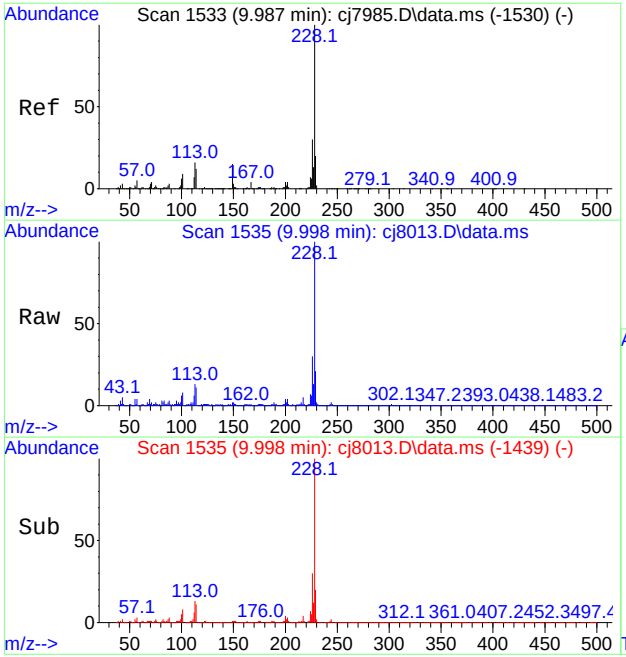


#89
Benzo[a]anthracene
Concen: 20.7661 ppm
RT: 9.966 min Scan# 1529
Delta R.T. 0.011 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:228 Resp: 729364

Ion	Ratio	Lower	Upper
228	100		
229	19.4	0.0	49.9
226	28.3	0.0	56.5

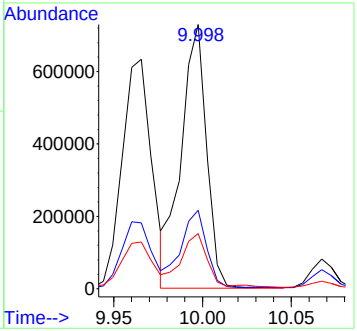


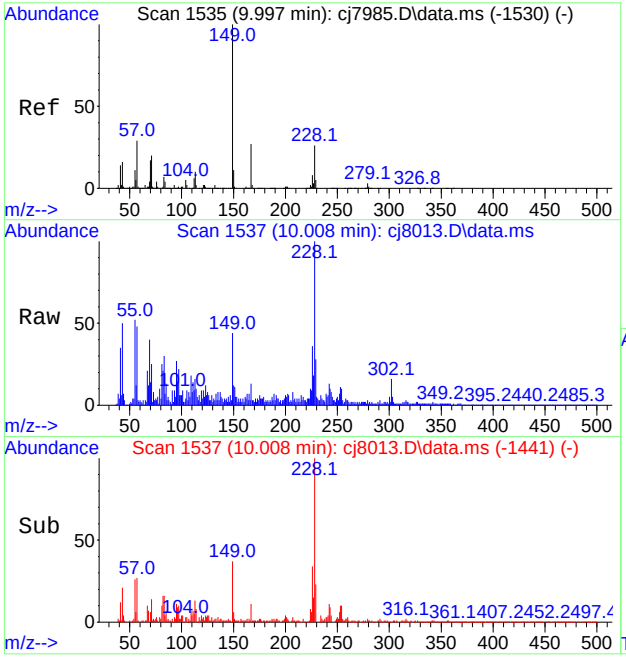


#91
Chrysene
Concen: 22.6190 ppm
RT: 9.998 min Scan# 1535
Delta R.T. 0.011 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:228 Resp: 732975

Ion	Ratio	Lower	Upper
228	100		
226	29.4	0.3	60.3
229	20.1	0.0	50.3

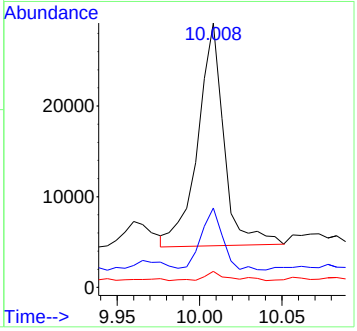


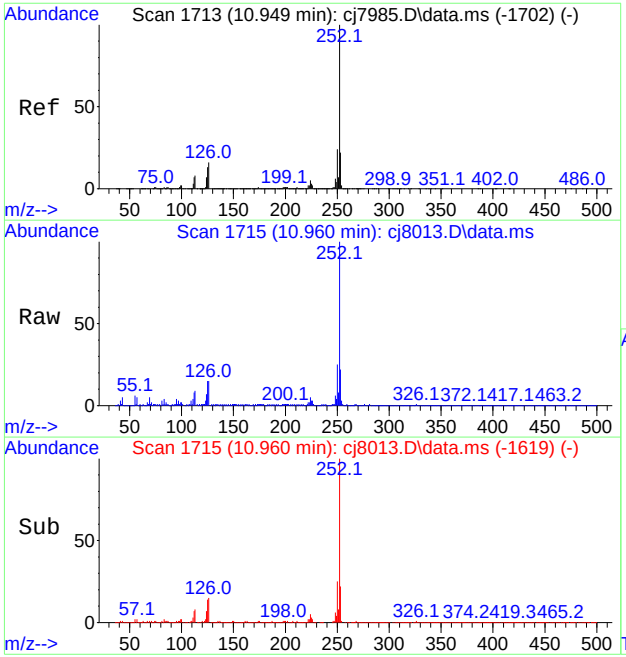


#92
bis(2-Ethylhexyl)phthalate
Concen: 1.1077 ppm
RT: 10.008 min Scan# 1537
Delta R.T. 0.011 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:149 Resp: 27195

Ion	Ratio	Lower	Upper
149	100		
167	26.1	0.0	56.9
279	3.7	0.0	33.4

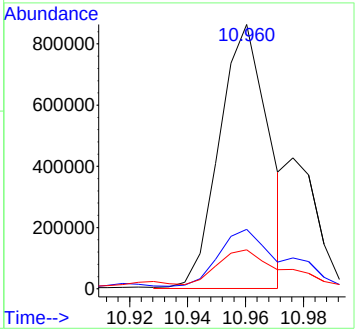


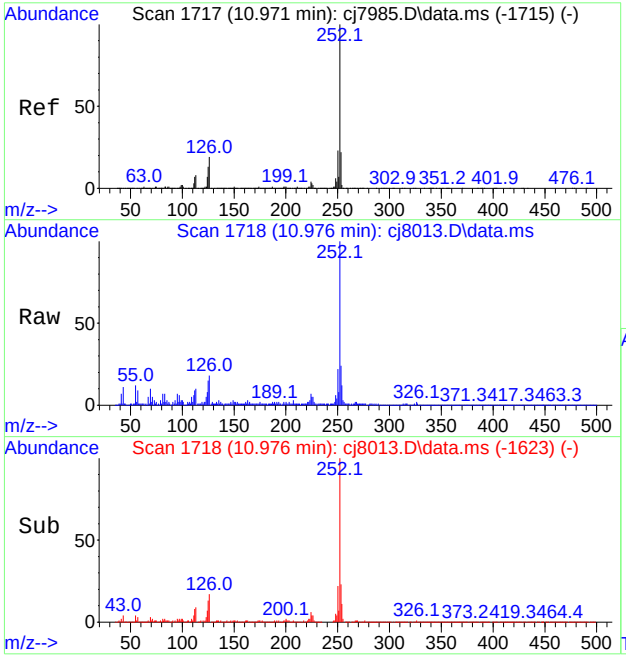


#95
Benzo[b]fluoranthene
Concen: 29.4098 ppm m
RT: 10.960 min Scan# 1715
Delta R.T. 0.011 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:252 Resp: 1008409

Ion	Ratio	Lower	Upper
252	100		
253	22.5	0.0	52.5
125	14.8	0.0	42.4

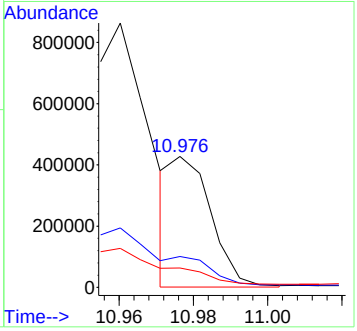


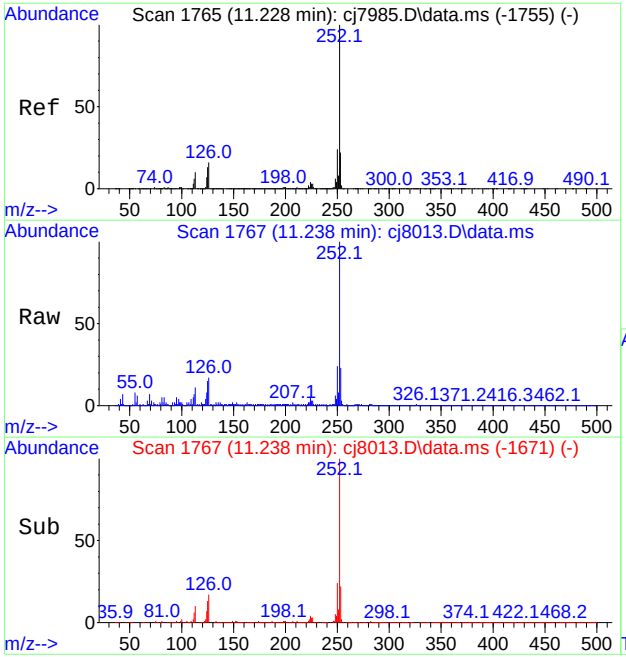


#96
Benzo[k]fluoranthene
Concen: 10.1999 ppm m
RT: 10.976 min Scan# 1718
Delta R.T. 0.006 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:252 Resp: 314703

Ion	Ratio	Lower	Upper
252	100		
253	23.6	0.0	51.7
125	14.8	0.0	43.5

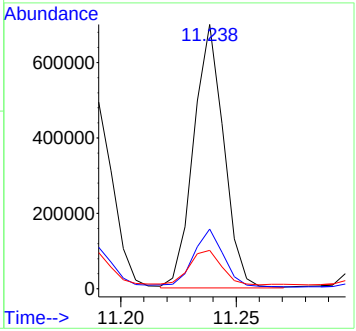


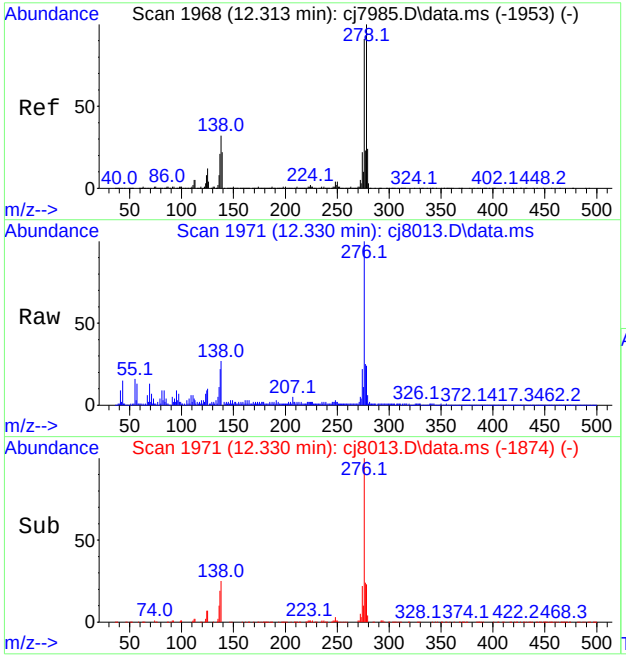


#97
Benzo[a]pyrene
Concen: 22.3909 ppm
RT: 11.238 min Scan# 1767
Delta R.T. 0.011 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:252 Resp: 635556

Ion	Ratio	Lower	Upper
252	100		
253	21.7	0.0	52.1
125	12.9	0.0	42.5

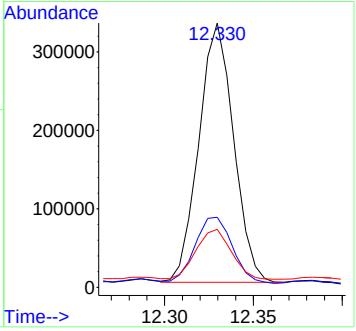


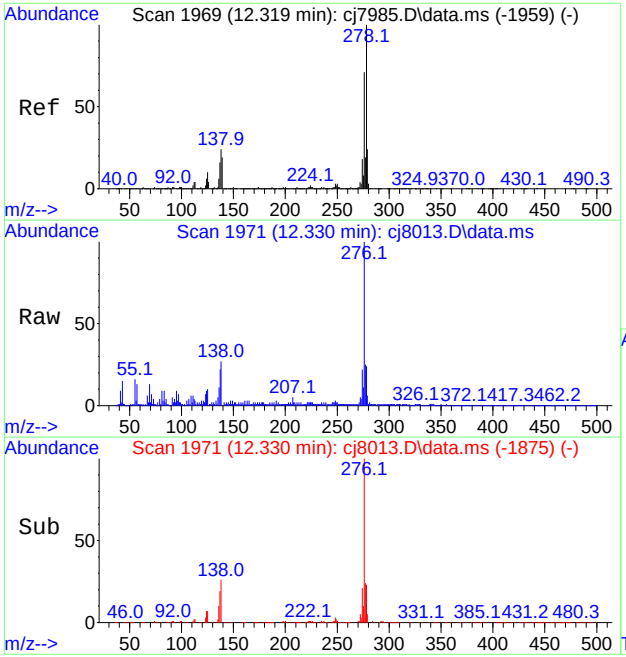


#98
Indeno[1,2,3-cd]pyrene
Concen: 13.0706 ppm
RT: 12.330 min Scan# 1971
Delta R.T. 0.016 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:276 Resp: 448509

Ion	Ratio	Lower	Upper
276	100		
138	25.1	5.2	65.2
137	19.1	0.0	53.3

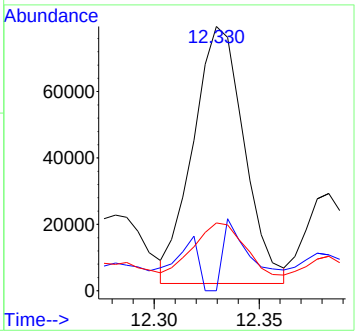


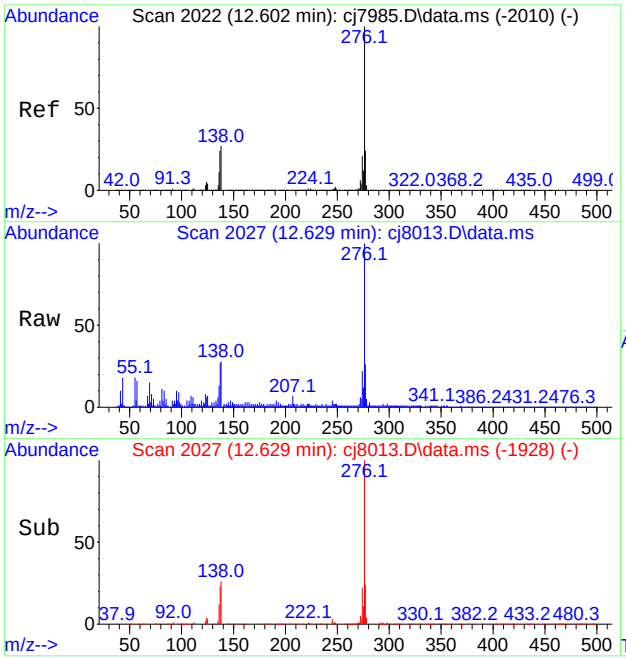


#100
Dibenz[a,h]anthracene
Concen: 4.7923 ppm
RT: 12.330 min Scan# 1971
Delta R.T. 0.011 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:278 Resp: 131397

Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	48.9
279	21.5	0.0	53.7

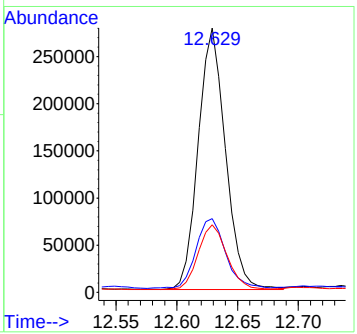


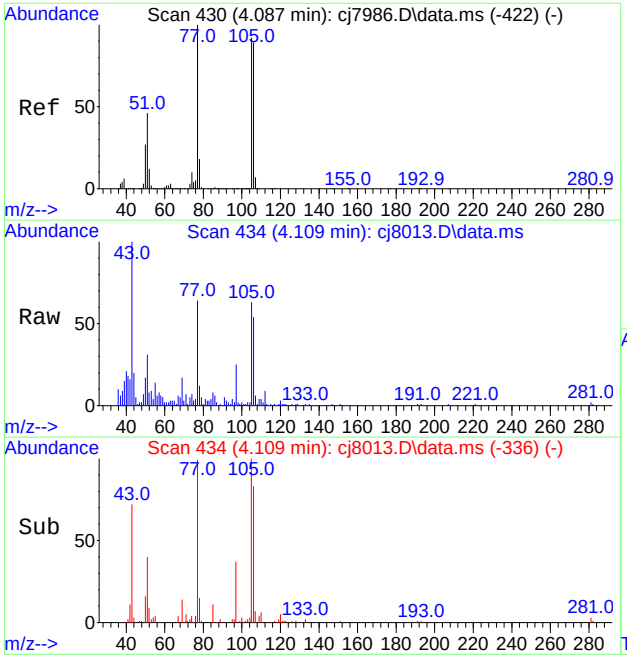


#102
Benzo[g,h,i]perylene
Concen: 16.2485 ppm
RT: 12.629 min Scan# 2027
Delta R.T. 0.027 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:276 Resp: 433284

Ion	Ratio	Lower	Upper
276	100		
138	26.5	0.0	57.0
277	24.6	0.0	53.6

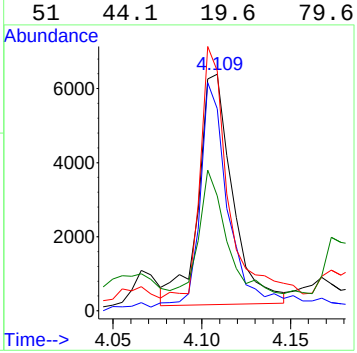




#104
Benzaldehyde
Concen: 0.7869 ppm
RT: 4.109 min Scan# 434
Delta R.T. 0.022 min
Lab File: cj8013.D
Acq: 01 Jul 2024 08:53 pm

Tgt Ion:105 Resp: 8364

Ion	Ratio	Lower	Upper
105	100		
106	88.9	66.2	126.2
77	101.9	78.1	138.1
51	44.1	19.6	79.6



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj8013.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.173	443	446	451	rBV	1107006	1185431	16.98%	0.752%
2	4.210	451	453	459	rVB	592493	428828	6.14%	0.272%
3	4.365	479	482	491	rVB	3285724	2157160	30.90%	1.368%
4	4.542	508	515	528	rBV	800818	1171712	16.78%	0.743%
5	4.718	542	548	555	rBV	1448566	1125662	16.12%	0.714%
6	4.767	555	557	573	rVB5	97435	222059	3.18%	0.141%
7	4.943	586	590	598	rVB	318610	233526	3.35%	0.148%
8	5.162	619	631	643	rBV	4231677	3115456	44.63%	1.975%
9	5.842	753	758	765	rVB	3431098	2183176	31.27%	1.384%
10	6.312	840	846	855	rVB	4443255	3459766	49.56%	2.194%
11	6.917	953	959	962	rBV	974009	908141	13.01%	0.576%
12	7.291	1023	1029	1034	rBV	266947	252203	3.61%	0.160%
13	7.489	1057	1066	1069	rBV	4000497	3998633	57.28%	2.535%
14	7.510	1069	1070	1075	rVB	1739475	989987	14.18%	0.628%
15	7.559	1075	1079	1083	rVB	654686	541675	7.76%	0.343%
16	7.708	1101	1107	1113	rBV	249271	341004	4.88%	0.216%
17	7.933	1145	1149	1152	rBV	275907	266549	3.82%	0.169%
18	7.960	1152	1154	1158	rVB	383825	346199	4.96%	0.219%
19	7.997	1158	1161	1165	rBV2	796396	752774	10.78%	0.477%
20	8.035	1165	1168	1179	rVB2	482659	657224	9.41%	0.417%
21	8.206	1194	1200	1203	rBV	183548	188206	2.70%	0.119%
22	8.243	1203	1207	1211	rVB	316372	268426	3.84%	0.170%
23	8.527	1256	1260	1268	rVB4	259231	353431	5.06%	0.224%
24	8.591	1268	1272	1279	rBV	4399765	3889994	55.72%	2.466%
25	8.682	1279	1289	1294	rBV4	256032	563356	8.07%	0.357%
26	8.735	1294	1299	1306	rBV3	308293	494935	7.09%	0.314%
27	8.805	1306	1312	1319	rBV	3489633	3776925	54.10%	2.395%
28	8.928	1328	1335	1337	rBV	182159	198606	2.84%	0.126%
29	8.955	1337	1340	1347	rVB	2669265	2481230	35.54%	1.573%
30	9.024	1347	1353	1356	rBV3	240436	381118	5.46%	0.242%
31	9.126	1362	1372	1376	rBV3	442373	693329	9.93%	0.440%
32	9.185	1376	1383	1386	rBV	300128	334079	4.79%	0.212%
33	9.222	1386	1390	1398	rBV2	704175	936813	13.42%	0.594%
34	9.441	1420	1431	1436	rBV6	162757	371168	5.32%	0.235%
35	9.623	1462	1465	1469	rVB	321922	297433	4.26%	0.189%
36	9.677	1469	1475	1478	rBV3	337034	361135	5.17%	0.229%
37	9.719	1478	1483	1486	rBV2	334127	448522	6.42%	0.284%
38	9.832	1500	1504	1508	rBV	349663	319322	4.57%	0.202%
39	9.891	1510	1515	1522	rBV	921675	1258902	18.03%	0.798%
40	9.971	1524	1530	1533	rBV2	4191921	5573545	79.84%	3.534%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.998	1533	1535	1540	rVB	2084458	1774791	25.42%	1.125%
42	10.067	1544	1548	1551	rBV2	325325	344240	4.93%	0.218%
43	10.105	1551	1555	1565	rBV5	287555	482063	6.91%	0.306%
44	10.179	1565	1569	1571	rBV	227577	232177	3.33%	0.147%
45	10.212	1571	1575	1580	rBV2	230589	356314	5.10%	0.226%
46	10.319	1592	1595	1598	rBV	481693	469760	6.73%	0.298%
47	10.356	1598	1602	1605	rVB	277118	257819	3.69%	0.163%
48	10.420	1611	1614	1616	rBV3	181362	204230	2.93%	0.129%
49	10.474	1621	1624	1626	rVV3	195345	244223	3.50%	0.155%
50	10.506	1626	1630	1632	rVV2	774632	871907	12.49%	0.553%
51	10.527	1632	1634	1645	rVV3	1274883	2088607	29.92%	1.324%
52	10.629	1649	1653	1656	rVV	319171	464144	6.65%	0.294%
53	10.655	1656	1658	1660	rVV2	243043	283531	4.06%	0.180%
54	10.682	1660	1663	1668	rVV4	328586	700184	10.03%	0.444%
55	10.725	1668	1671	1677	rVV3	665023	1161741	16.64%	0.737%
56	10.768	1677	1679	1681	rVV3	304637	359974	5.16%	0.228%
57	10.800	1681	1685	1688	rVV	490867	779271	11.16%	0.494%
58	10.827	1688	1690	1694	rVV3	521842	862159	12.35%	0.547%
59	10.859	1694	1696	1702	rVV4	447213	890113	12.75%	0.564%
60	10.928	1702	1709	1711	rVV	3023642	3400414	48.71%	2.156%
61	10.960	1711	1715	1722	rVV	2621974	4889676	70.04%	3.100%
62	11.046	1722	1731	1734	rVV2	776601	2133535	30.56%	1.353%
63	11.089	1734	1739	1742	rVV	3405485	4132336	59.19%	2.620%
64	11.121	1742	1745	1753	rVV2	2680653	5189079	74.33%	3.290%
65	11.190	1753	1758	1761	rVV	1818014	2831243	40.55%	1.795%
66	11.238	1764	1767	1770	rVV	2303082	2628798	37.66%	1.667%
67	11.287	1770	1776	1787	rVV2	3638959	6981254	100.00%	4.426%
68	11.372	1787	1792	1798	rVV4	908152	2421706	34.69%	1.535%
69	11.442	1798	1805	1811	rVV7	785160	2841724	40.71%	1.802%
70	11.517	1812	1819	1830	rVV	3060245	5751255	82.38%	3.646%
71	11.592	1830	1833	1839	rVV5	557592	1496380	21.43%	0.949%
72	11.688	1839	1851	1856	rVV	4205847	6789631	97.26%	4.305%
73	11.741	1856	1861	1870	rVV2	1498625	4545628	65.11%	2.882%
74	11.800	1870	1872	1876	rVV4	599029	989585	14.17%	0.627%
75	11.848	1876	1881	1889	rVV3	1035696	2446892	35.05%	1.551%
76	11.939	1891	1898	1902	rVV6	550552	1541309	22.08%	0.977%
77	11.971	1902	1904	1907	rVV3	368225	578024	8.28%	0.366%
78	12.030	1907	1915	1921	rVV6	567571	1910781	27.37%	1.211%
79	12.078	1921	1924	1927	rVV	444200	793206	11.36%	0.503%
80	12.126	1927	1933	1941	rVV7	582254	1870727	26.80%	1.186%
81	12.228	1941	1952	1966	rVV3	2905014	5797362	83.04%	3.676%
82	12.330	1966	1971	1977	rVV	1250550	2367449	33.91%	1.501%
83	12.388	1977	1982	1985	rVV3	555289	1075700	15.41%	0.682%
84	12.431	1985	1990	1997	rVV2	1144751	2615342	37.46%	1.658%
85	12.549	1997	2012	2021	rVV3	1284776	4368261	62.57%	2.770%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.629	2021	2027	2037	rVV	892636	2287261	32.76%	1.450%
87	12.720	2037	2044	2051	rVV5	667199	1690697	24.22%	1.072%
88	12.795	2051	2058	2071	rVV5	343988	1149601	16.47%	0.729%
89	12.897	2071	2077	2082	rVV8	108165	265037	3.80%	0.168%
90	13.025	2091	2101	2114	rVB7	380710	1126703	16.14%	0.714%
91	13.159	2114	2126	2133	rBV	1210173	2319008	33.22%	1.470%
92	13.362	2155	2164	2169	rVV4	353221	729117	10.44%	0.462%
93	13.415	2169	2174	2189	rVB8	139924	502219	7.19%	0.318%
94	13.592	2193	2207	2216	rVB	647359	1747454	25.03%	1.108%
95	13.747	2227	2236	2242	rVB8	82473	214466	3.07%	0.136%
96	13.988	2272	2281	2289	rVV7	335709	843224	12.08%	0.535%
97	14.132	2299	2308	2321	rVV2	249877	895066	12.82%	0.567%
98	14.261	2324	2332	2339	rVV2	214592	627651	8.99%	0.398%
99	14.330	2341	2345	2357	rVV6	145399	377666	5.41%	0.239%
100	14.442	2358	2366	2371	rVB6	86326	204600	2.93%	0.130%

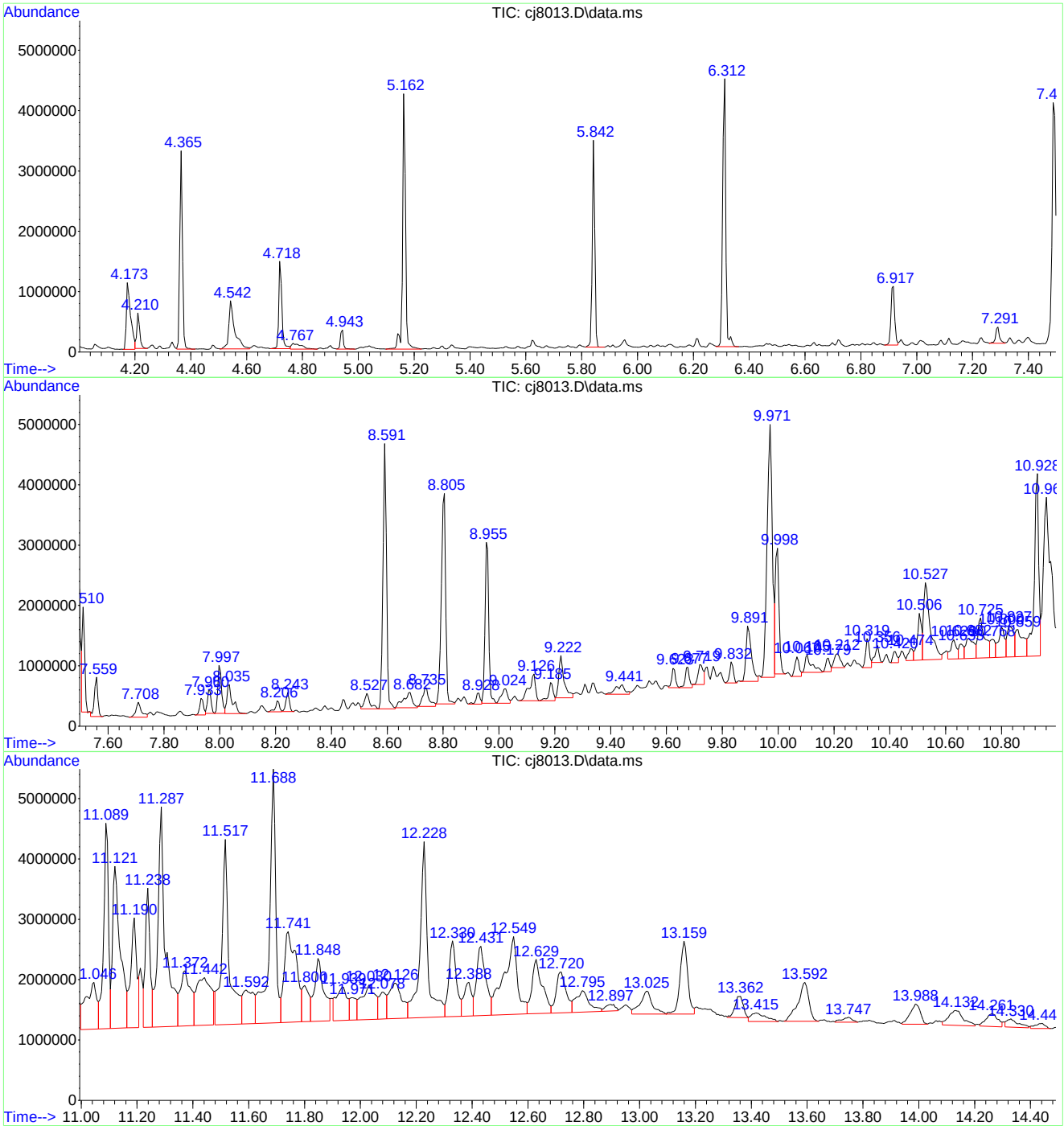
Sum of corrected areas: 157721955

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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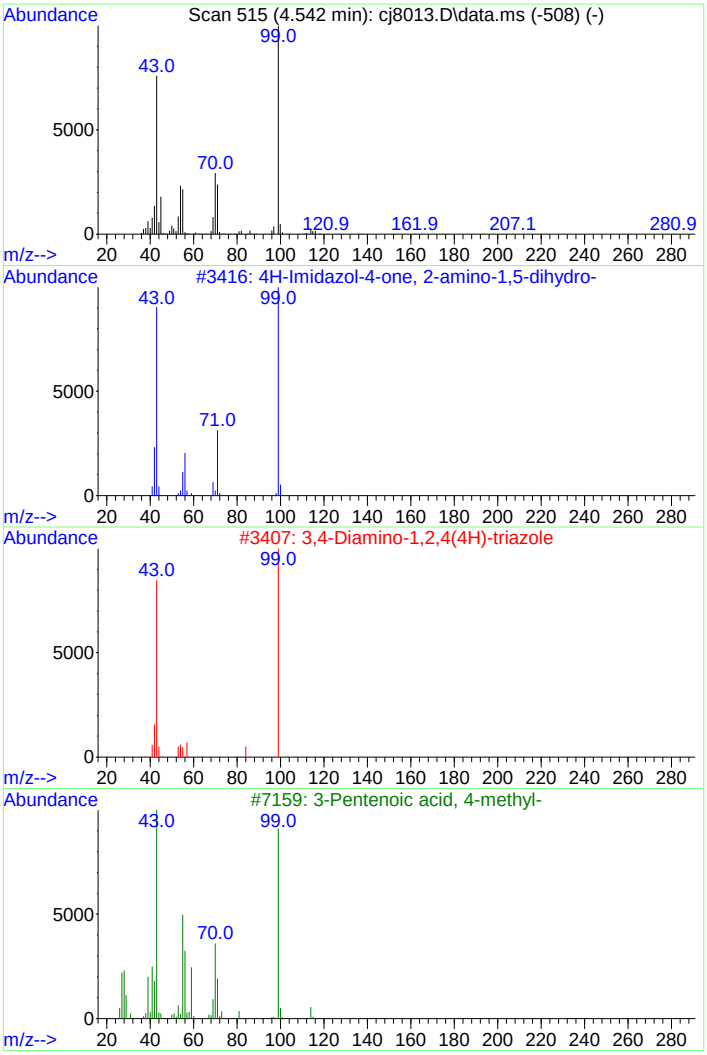
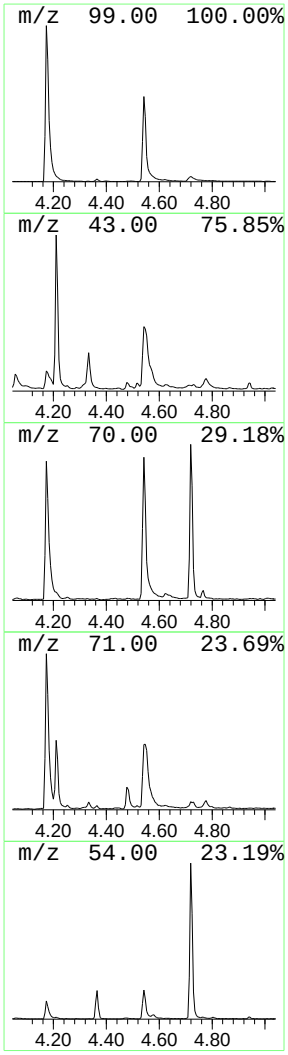
Peak Number 1 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.542	21.73 ppm	1171710	1,4-Dichlorobenzene-d4a	4.365

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Imidazol-4-one, 2-amino-1,5-d...	99	C3H5N3O	000503-86-6	52
2	3,4-Diamino-1,2,4(4H)-triazole	99	C2H5N5	038104-45-9	43
3	3-Pentenoic acid, 4-methyl-	114	C6H10O2	000504-85-8	42
4	4-Methylthiazole	99	C4H5NS	000693-95-8	38
5	.beta.-Acetylacrylic acid	114	C5H6O3	004743-82-2	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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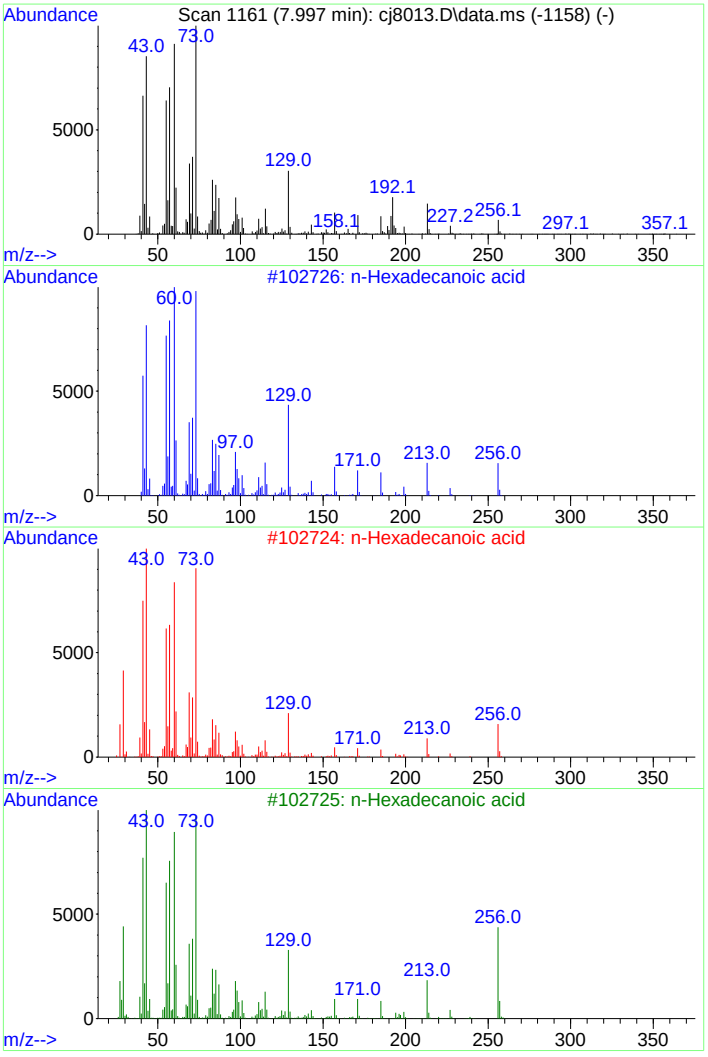
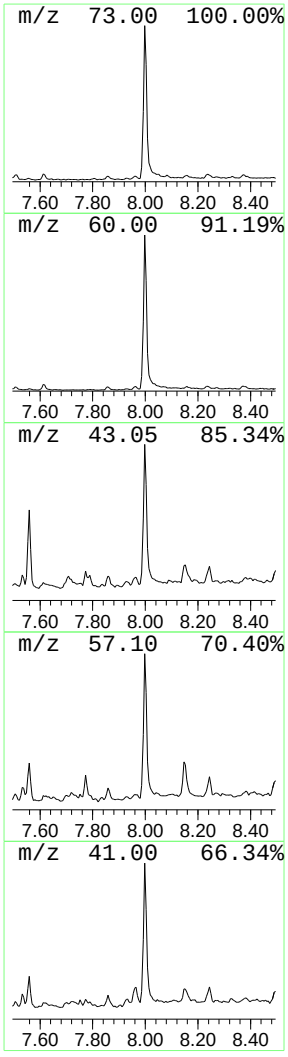
Peak Number 2 n-Hexadecanoic acid Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.997	7.53 ppm	752774	Phenanthrene-d10b	7.489

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	94
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	93
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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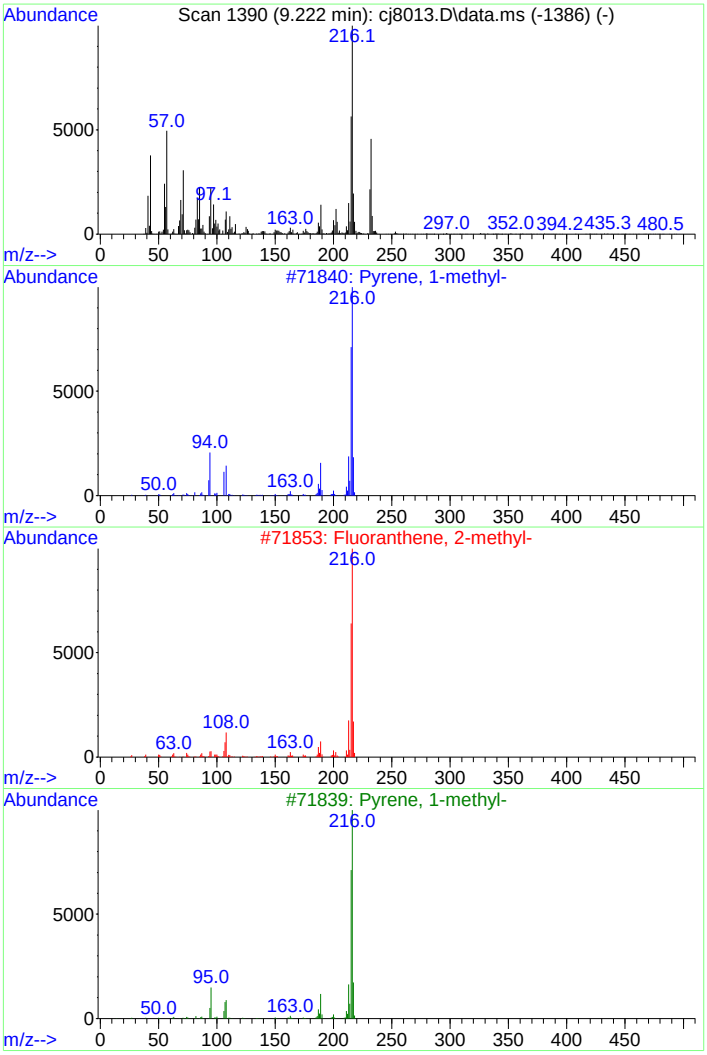
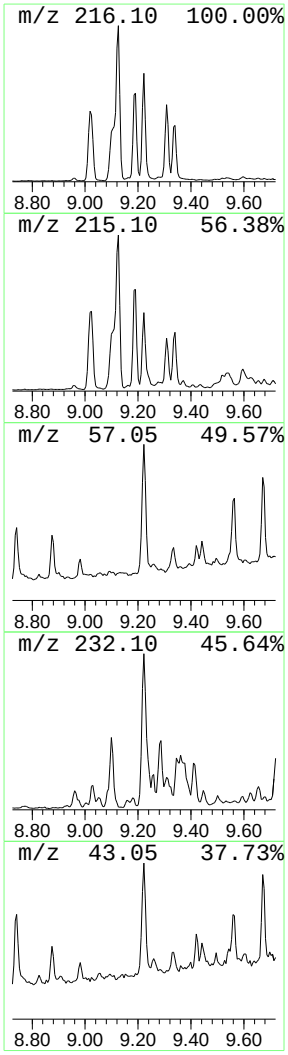
Peak Number 3 Pyrene methyl Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.222	6.72 ppm	936813	Chrysene-d12	9.971

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	78





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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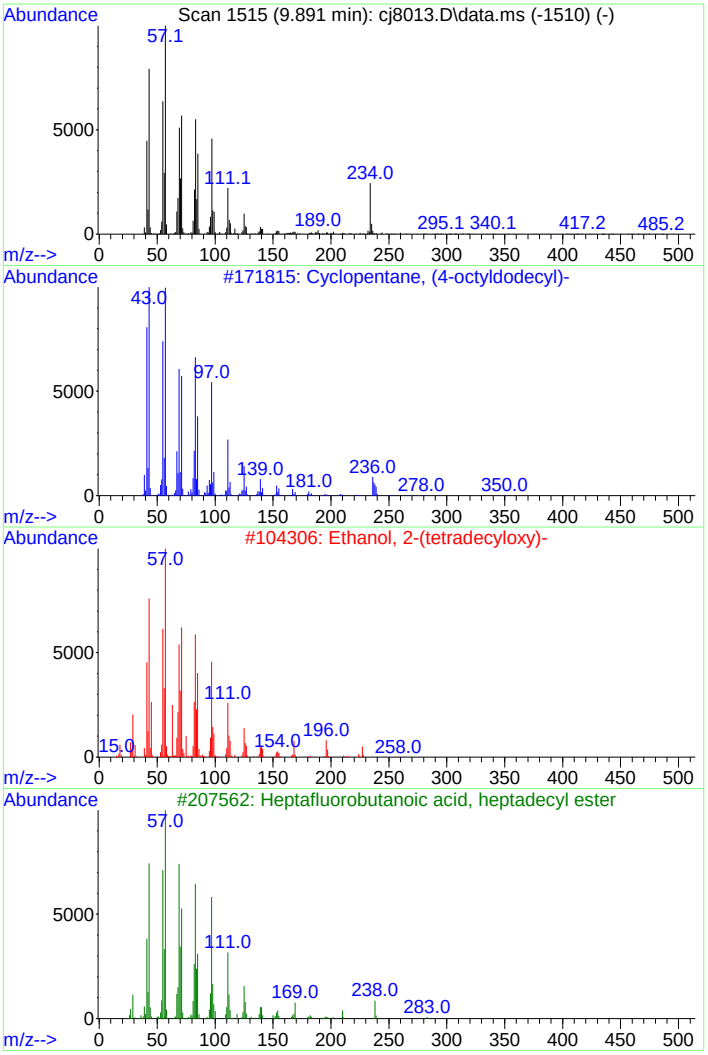
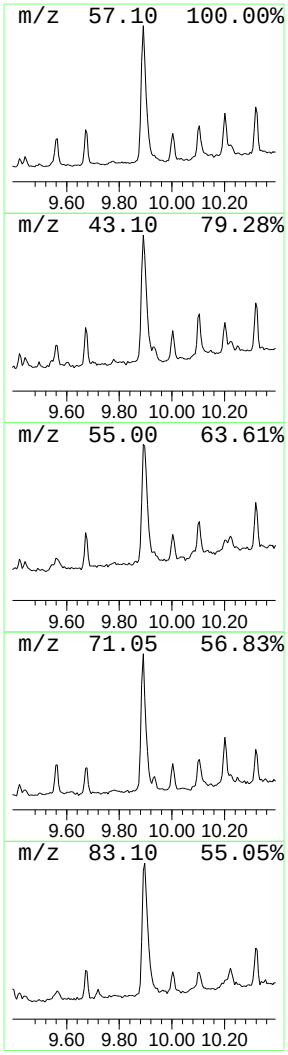
Peak Number 4 Unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.891	9.03 ppm	1258900	Chrysene-d12	9.971

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, (4-octyldodecyl)-	350	C25H50	005638-09-5	90
2	Ethanol, 2-(tetradecyloxy)-	258	C16H34O2	002136-70-1	81
3	Heptafluorobutanoic acid, heptad...	452	C21H35F7O2	1000282-97-3	64
4	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	1000283-04-2	64
5	Heptadecyl pentafluoropropionate	402	C20H35F5O2	1000351-80-6	60





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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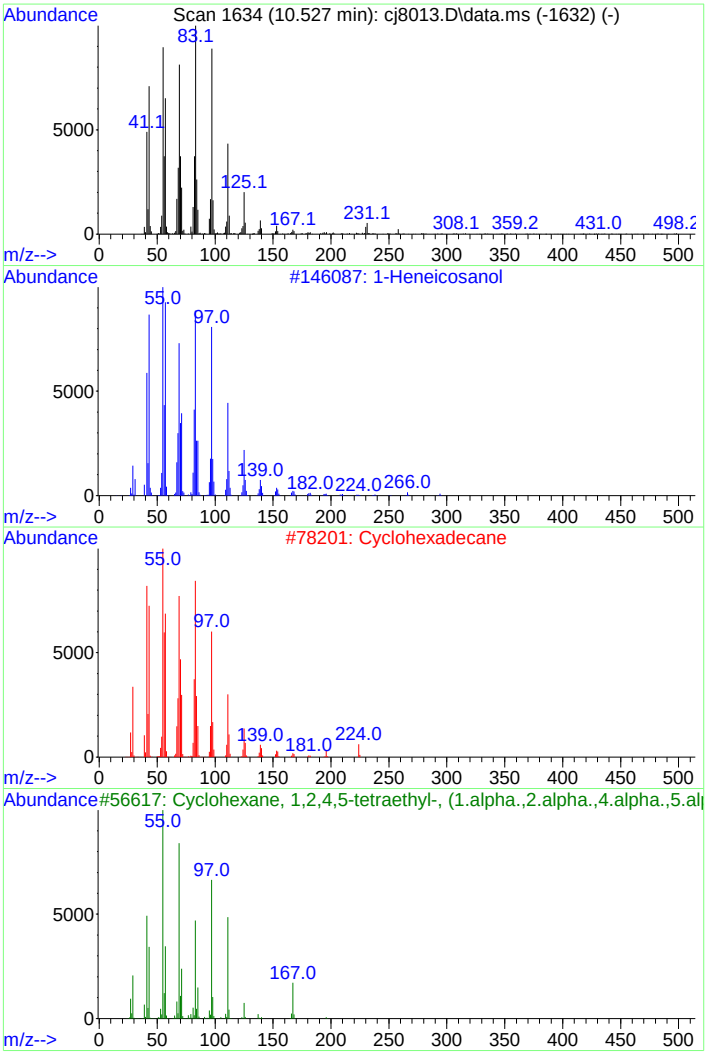
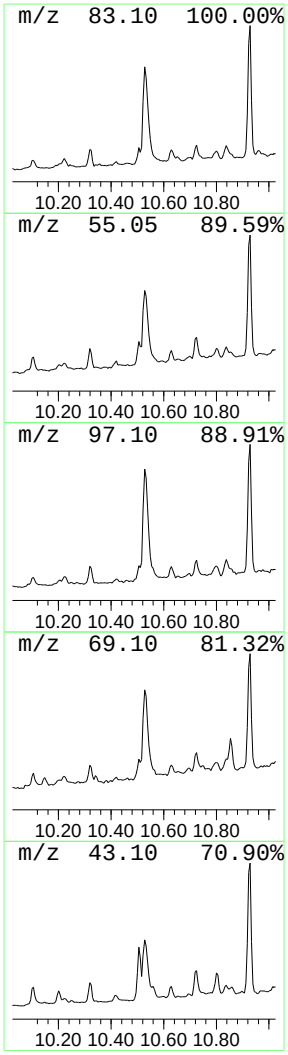
Peak Number 5 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.527	14.99 ppm	2088610	Chrysene-d12a	9.971

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	91
2	Cyclohexadecane	224	C16H32	000295-65-8	74
3	Cyclohexane, 1,2,4,5-tetraethyl-...	196	C14H28	061142-24-3	58
4	1-Tricosene	322	C23H46	018835-32-0	58
5	1-Docosene	308	C22H44	001599-67-3	58





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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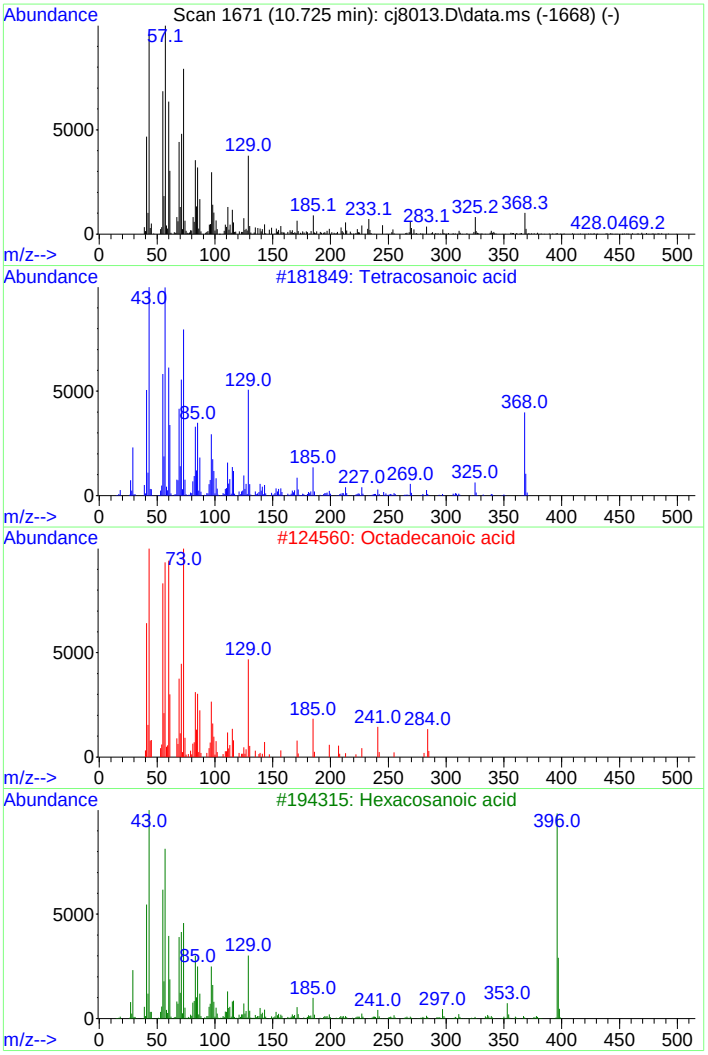
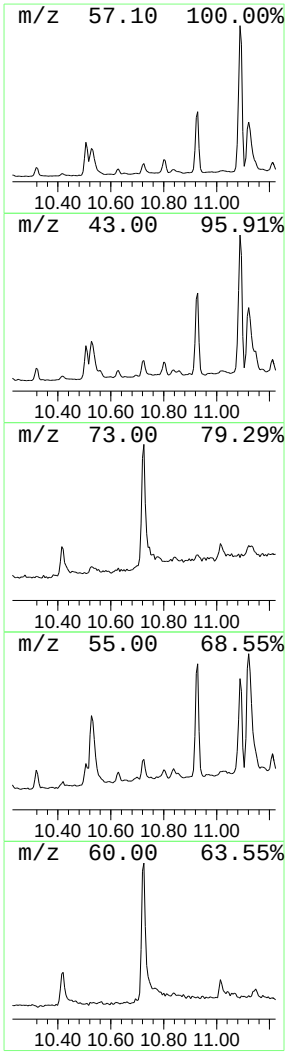
Peak Number 6 Unknown acid Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.725	6.66 ppm	1161740	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosanoic acid	368	C24H48O2	000557-59-5	96
2	Octadecanoic acid	284	C18H36O2	000057-11-4	62
3	Hexacosanoic acid	396	C26H52O2	000506-46-7	58
4	3-[4-Chloro-.alpha.,.alpha.,.alp...	325	C11H7ClF3NOS2	020174-59-8	56
5	Decanoic acid, silver(1+) salt	278	C10H19AgO2	013126-67-5	50





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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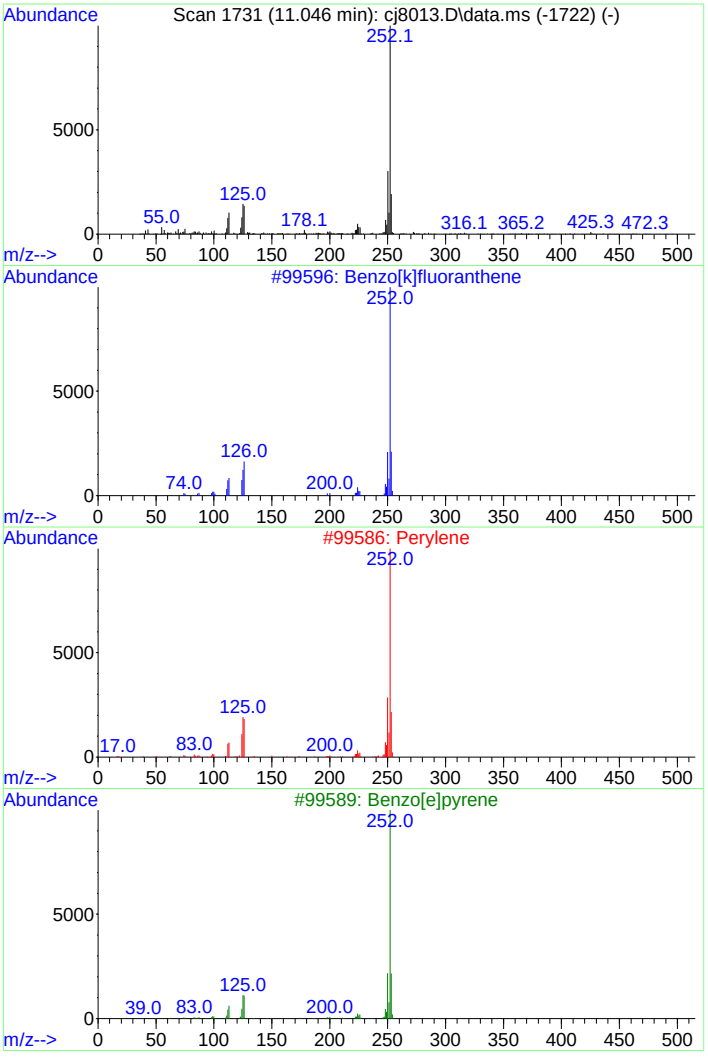
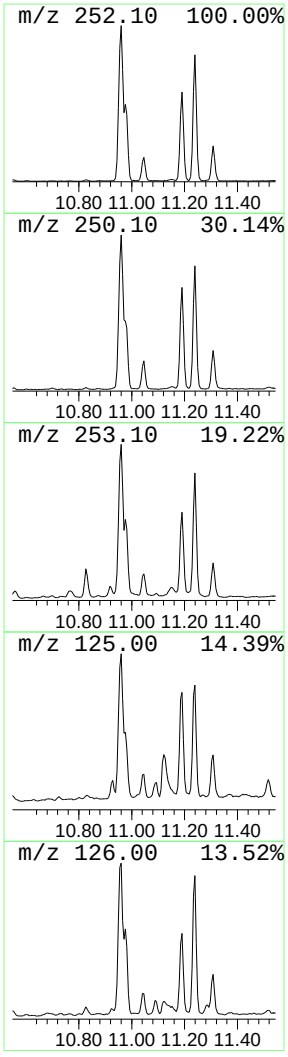
Peak Number 7 Unknown PAH substance Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.046	12.22 ppm	2133540	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
2	Perylene	252	C20H12	000198-55-0	93
3	Benzo[e]pyrene	252	C20H12	000192-97-2	91
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	91
5	Perylene	252	C20H12	000198-55-0	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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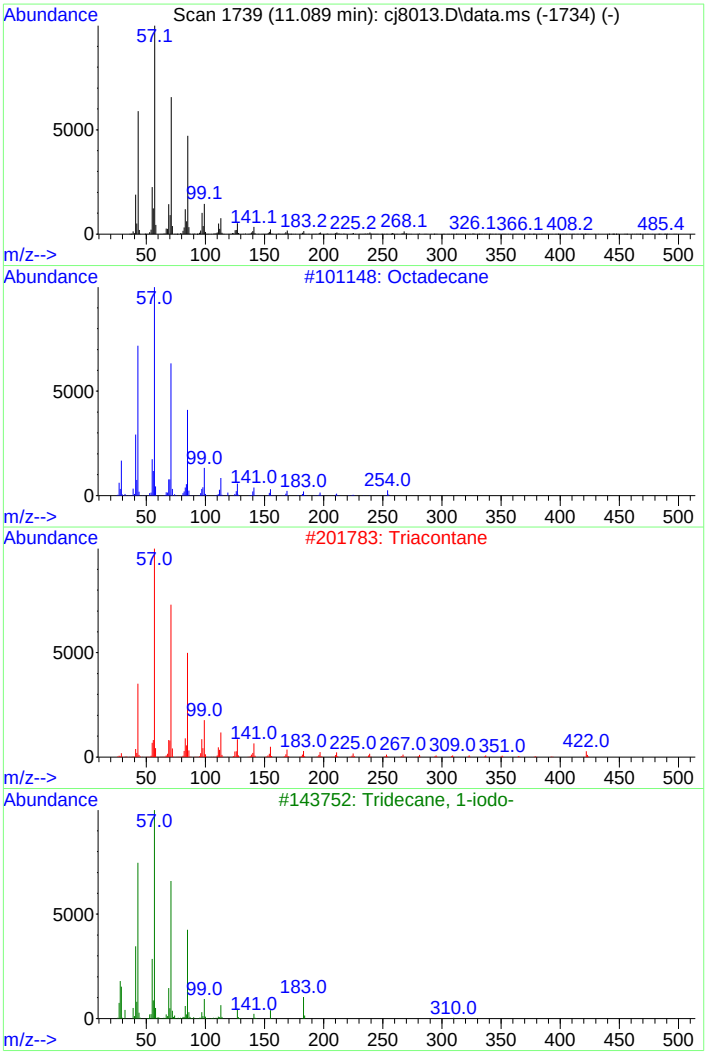
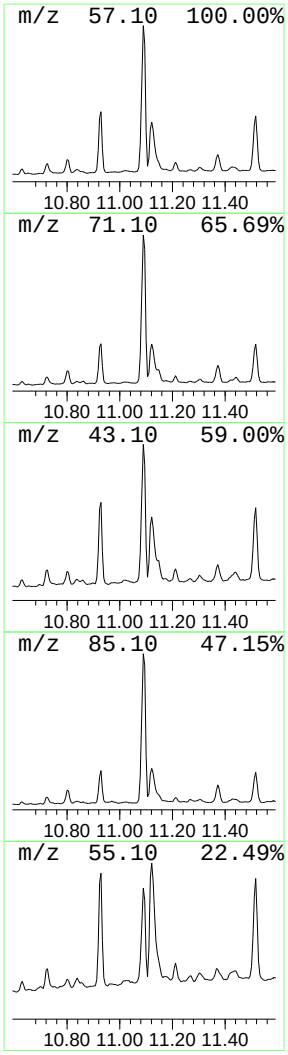
Peak Number 8 Alkane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.089	23.68 ppm	4132340	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	95
2	Triacontane	422	C30H62	000638-68-6	94
3	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	91
4	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	91
5	Octacosane	394	C28H58	000630-02-4	91





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Sample : jd91204-4
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ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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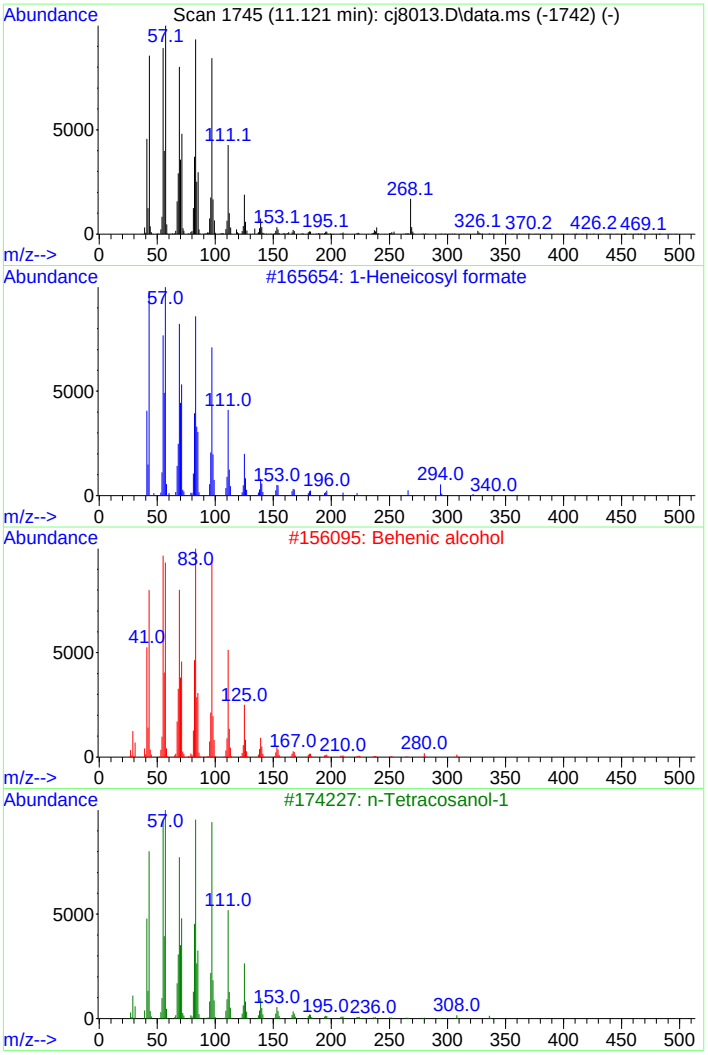
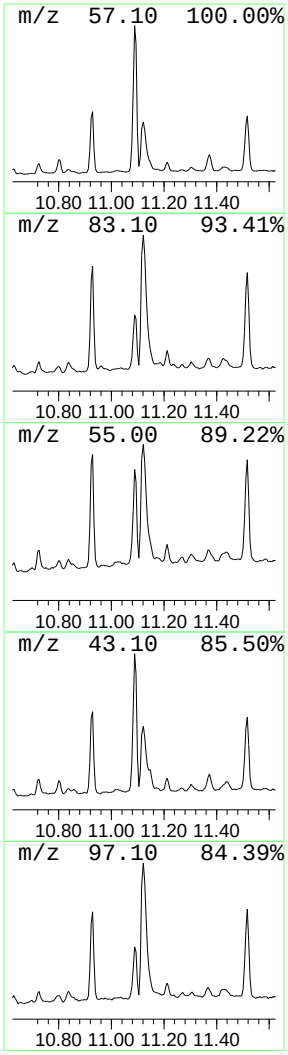
Peak Number 9 Unknown alcohol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.121	29.73 ppm	5189080	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosyl formate	340	C22H44O2	077899-03-7	94
2	Behenic alcohol	326	C22H46O	000661-19-8	94
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
4	Cyclopentadecane	210	C15H30	000295-48-7	93
5	n-Nonadecanol-1	284	C19H40O	001454-84-8	93





Library Search Compound Report

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Data File : cj8013.D
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Sample : jd91204-4
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ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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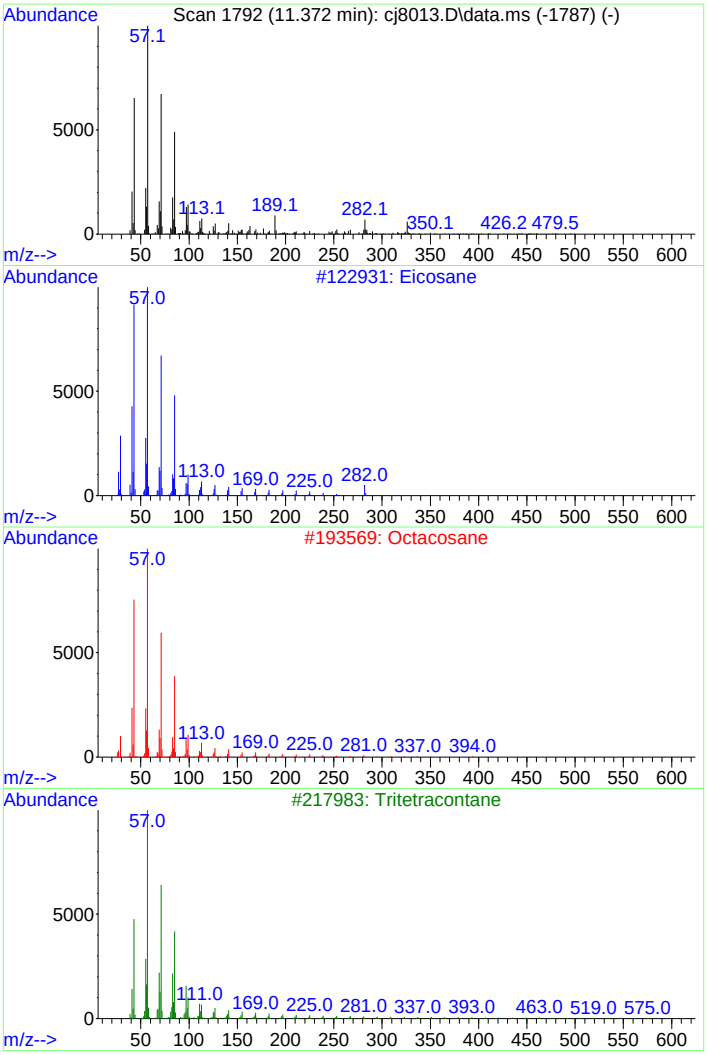
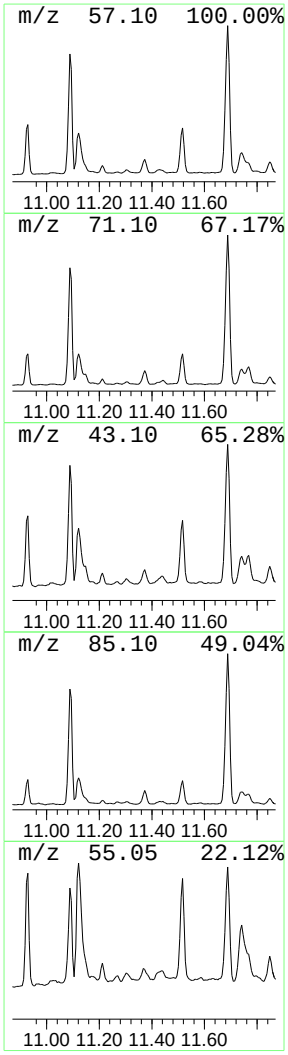
Peak Number 10 Alkane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.372	13.88 ppm	2421710	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	91
2	Octacosane	394	C28H58	000630-02-4	87
3	Tritetracontane	605	C43H88	007098-21-7	87
4	Octadecane, 5,14-dibutyl-	366	C26H54	055282-13-8	86
5	Hexatriacontane	507	C36H74	000630-06-8	83





Library Search Compound Report

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Data File : cj8013.D
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Sample : jd91204-4
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ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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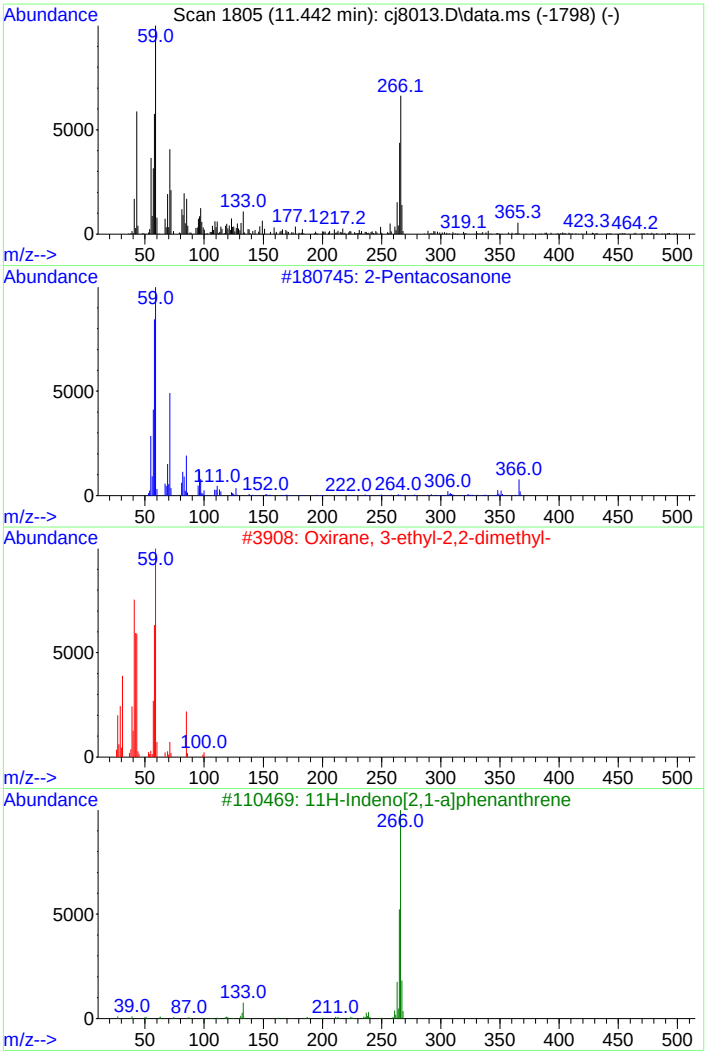
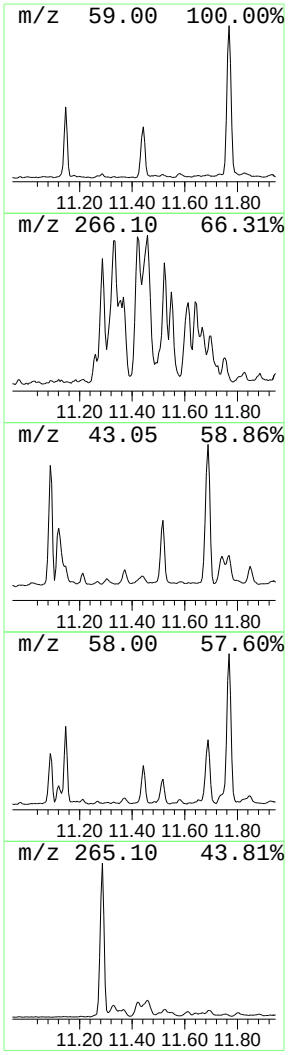
Peak Number 11 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.442	16.28 ppm	2841720	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentacosanone	366	C25H50O	075207-54-4	43
2	Oxirane, 3-ethyl-2,2-dimethyl-	100	C6H12O	001192-22-9	35
3	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	35
4	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	30
5	Silane, dimethyl-	60	C2H8Si	001111-74-6	27





Library Search Compound Report

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Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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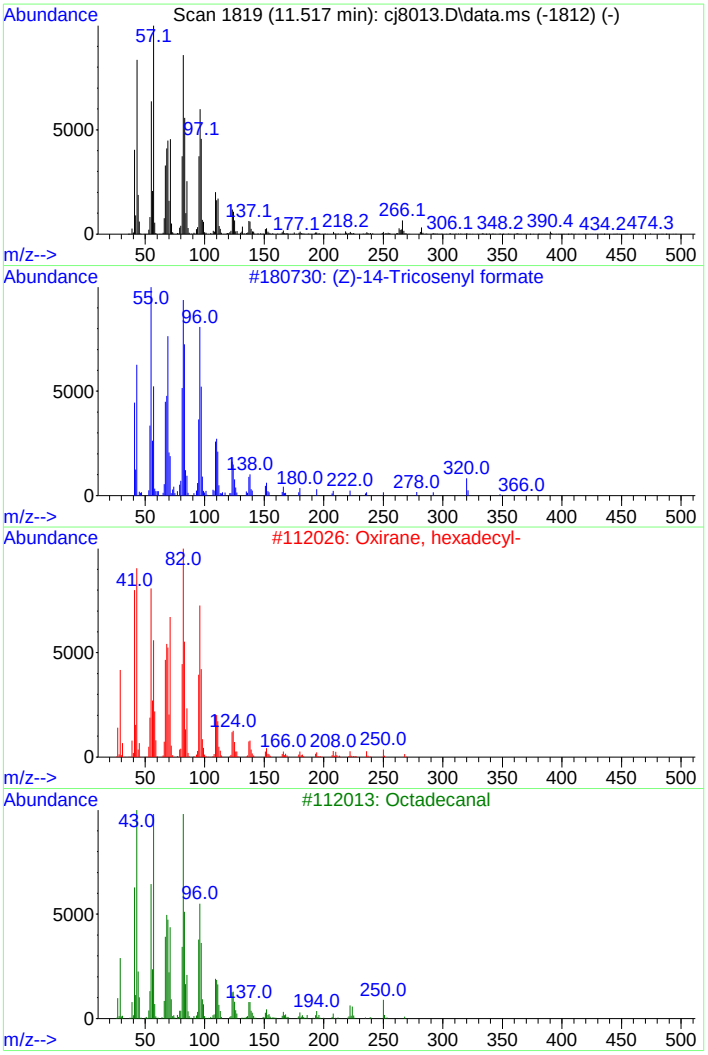
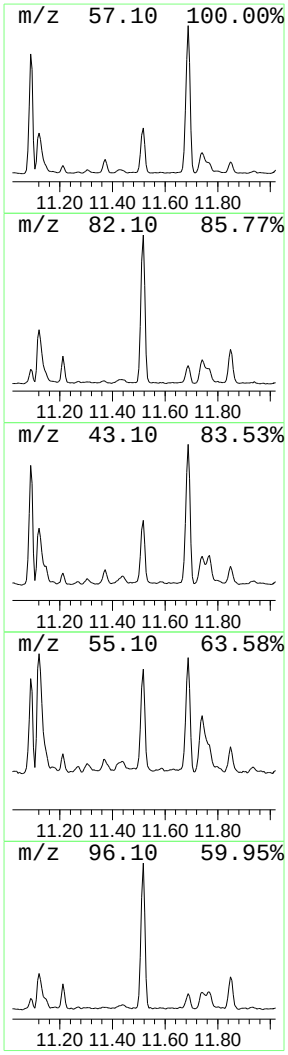
Peak Number 12 Unknown alcohol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.517	32.95 ppm	5751260	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	95
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
3	Octadecanal	268	C18H36O	000638-66-4	90
4	Octadecanal	268	C18H36O	000638-66-4	87
5	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	87





Library Search Compound Report

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Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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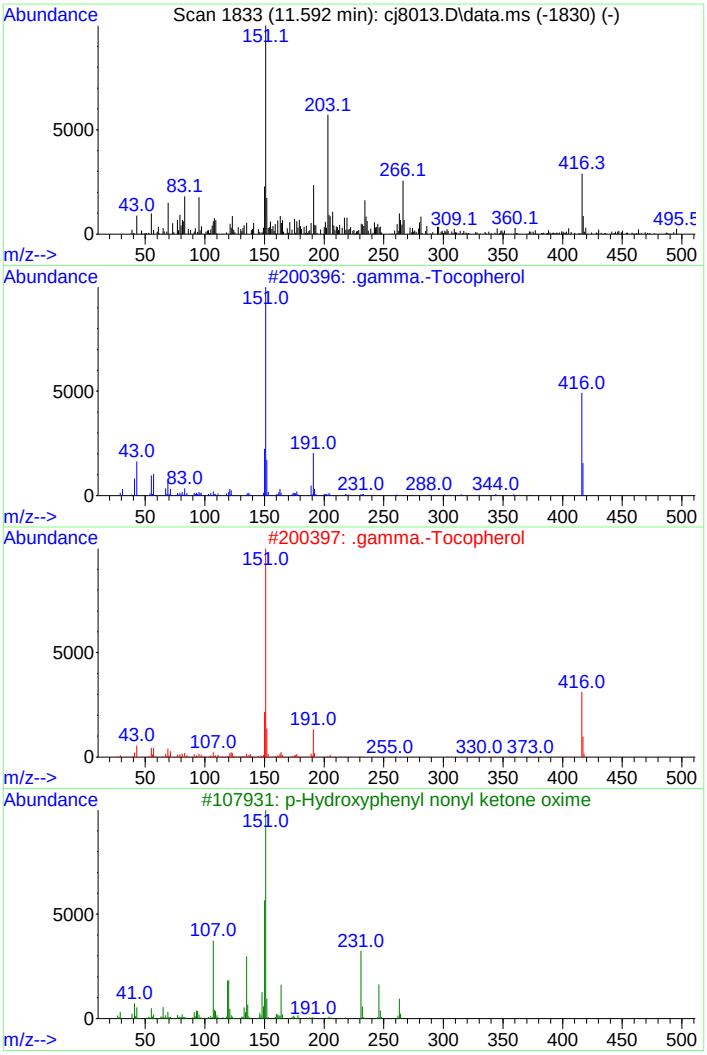
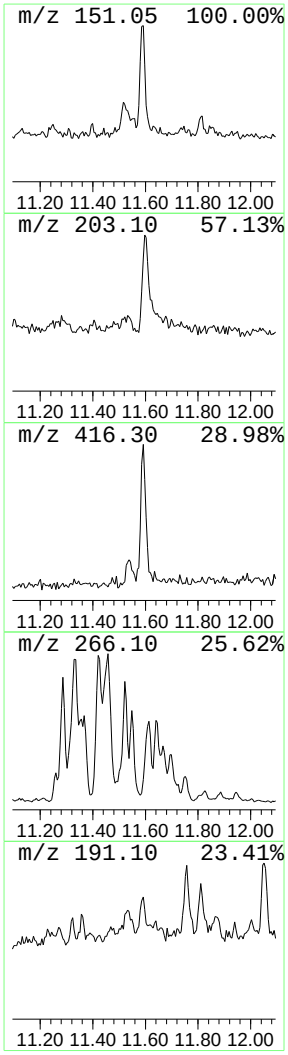
Peak Number 13 .gamma.-Tocopherol Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.592	8.57 ppm	1496380	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Tocopherol	416	C28H48O2	007616-22-0	60
2	.gamma.-Tocopherol	416	C28H48O2	007616-22-0	49
3	p-Hydroxyphenyl nonyl ketone oxime	263	C16H25NO2	014353-83-4	30
4	1H-1,2,4-Triazol-5-amine, N-(3,4...	234	C11H14N4O2	100057-78-1	27
5	Tetrahydropyrrolo[1,2-a] 1,4-dia...	194	C11H18N2O	197709-30-1	27





Library Search Compound Report

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Sample : jd91204-4
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ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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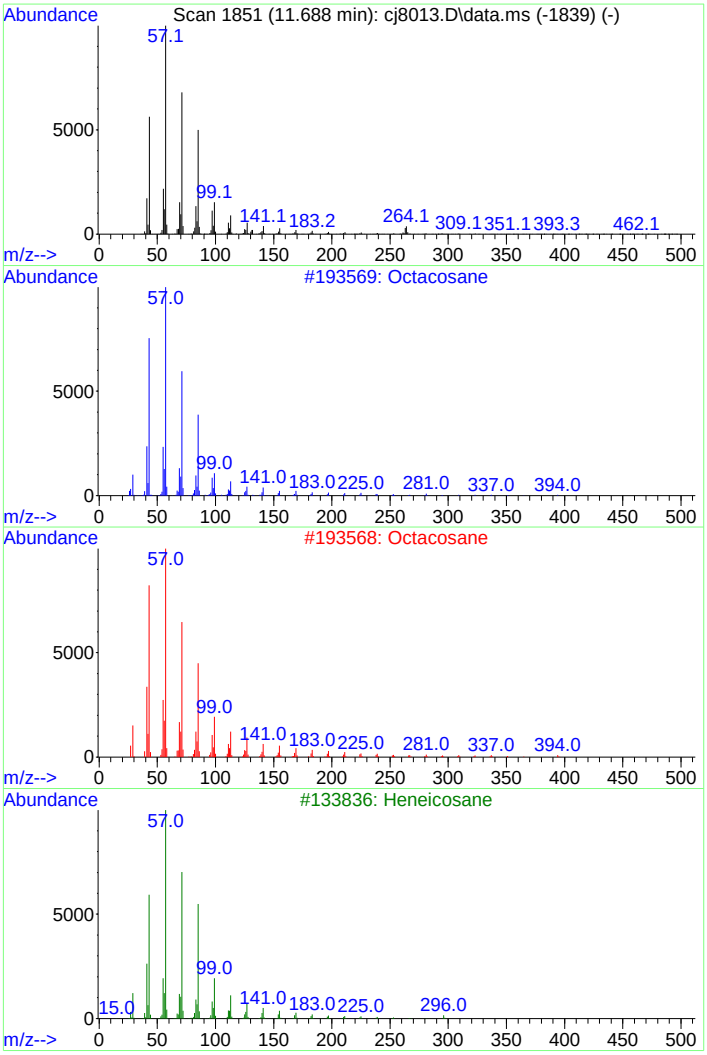
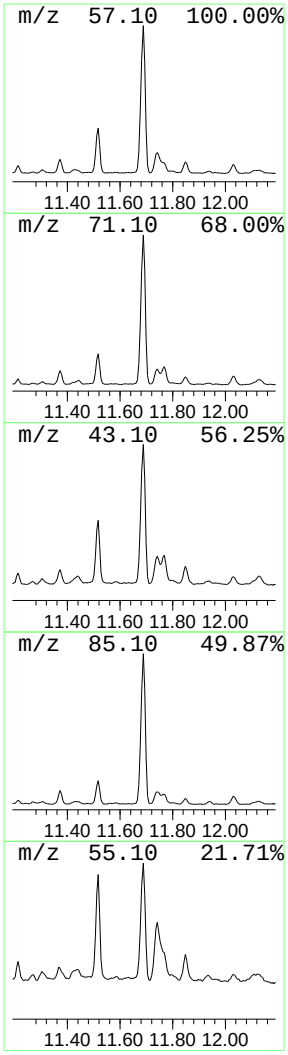
Peak Number 14 Alkane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.688	38.90 ppm	6789630	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	98
2	Octacosane	394	C28H58	000630-02-4	97
3	Heneicosane	296	C21H44	000629-94-7	91
4	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	91
5	Heptacosane	380	C27H56	000593-49-7	87





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Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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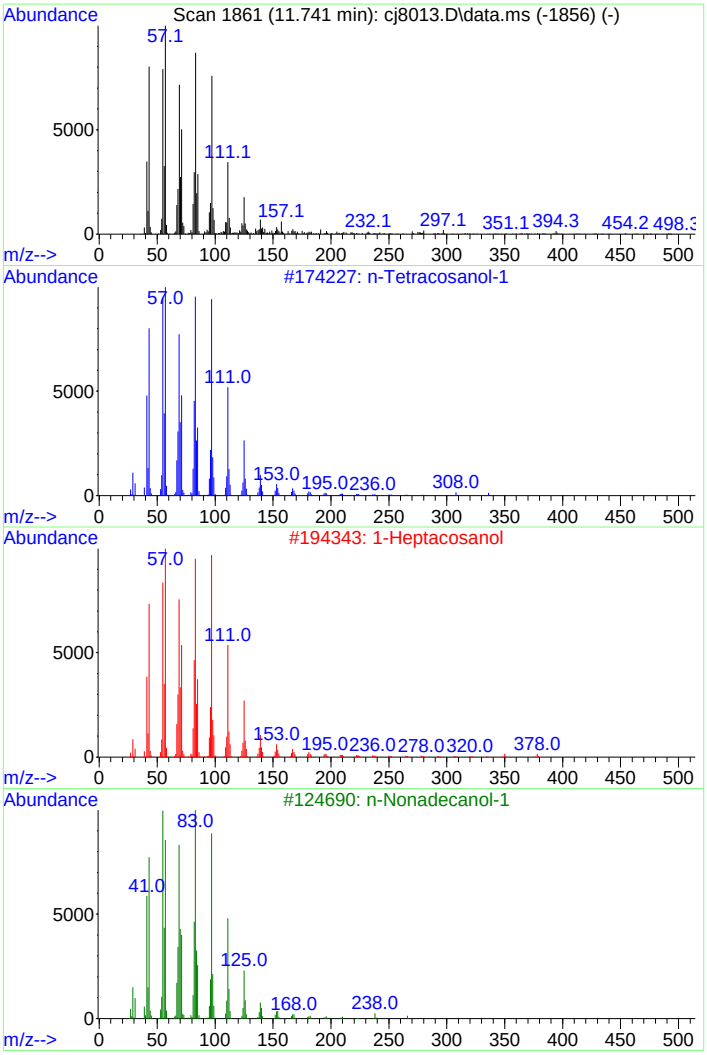
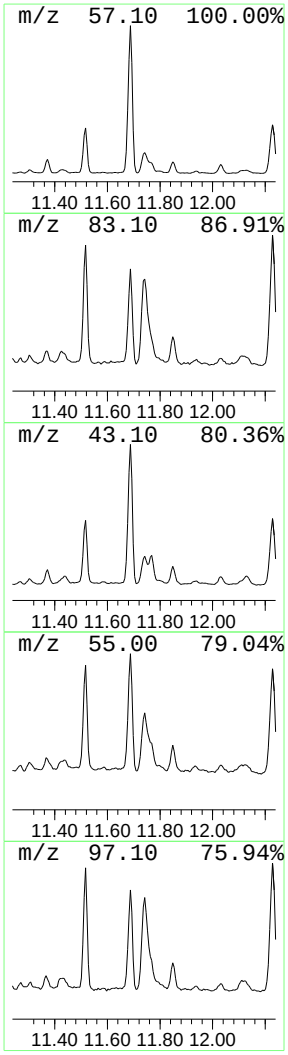
Peak Number 15 Unknown alcohol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.741	26.04 ppm	4545630	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Tetracosanol-1	354	C24H50O	000506-51-4	93
2	1-Heptacosanol	396	C27H56O	002004-39-9	91
3	n-Nonadecanol-1	284	C19H40O	001454-84-8	87
4	Octadecane, 1-(ethenyloxy)-	296	C20H40O	000930-02-9	86
5	1-Hexacosene	364	C26H52	018835-33-1	81





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Acq On : 01 Jul 2024 08:53 pm
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Sample : jd91204-4
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ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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Peak Number 16 Vitamin E Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.848	14.02 ppm	2446890	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	64
2	1,19-Eicosadiene	278	C20H38	014811-95-1	60
3	Vitamin E	430	C29H50O2	000059-02-9	53
4	Octadecanal	268	C18H36O	000638-66-4	53
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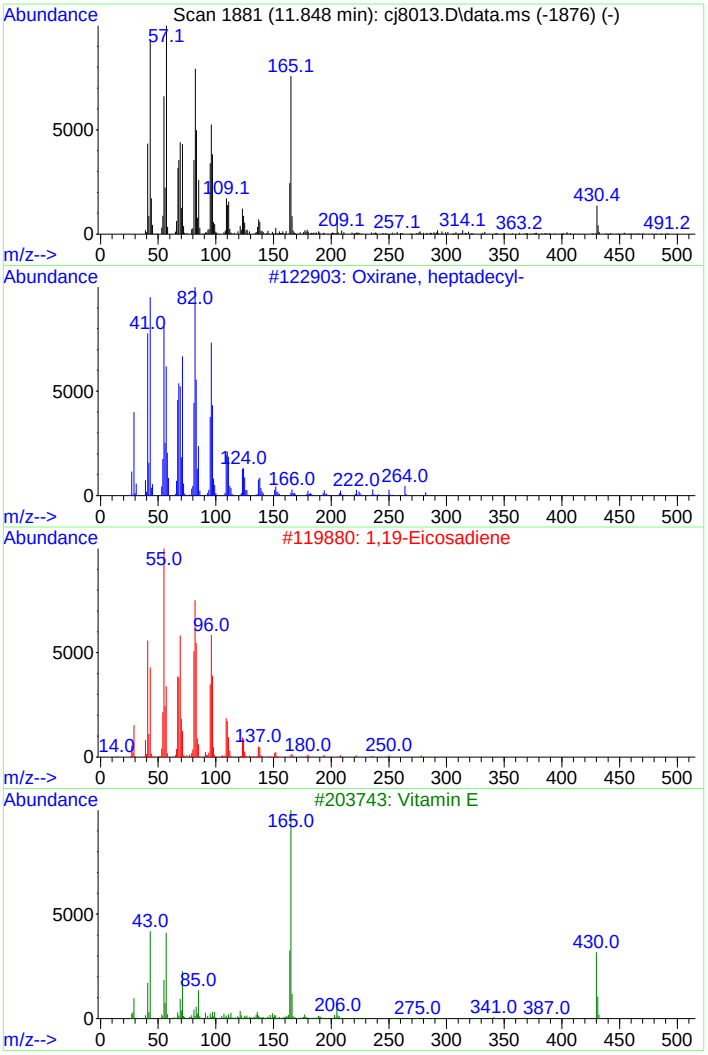

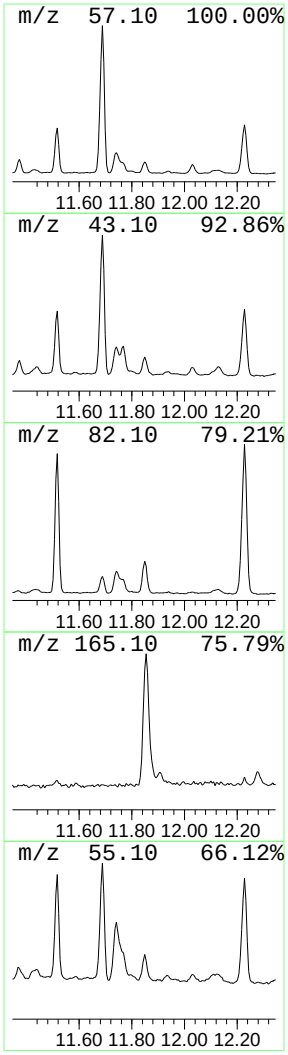

Library Search Compound Report

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Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
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Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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Peak Number 17 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.939	8.83 ppm	1541310	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,7-Nonanedione, 5-(2-furanyl)-2...	278	C17H26O3	1000319-41-4	25
2	Furan-2-carboxylic acid, (1-benz...	267	C15H13N3O2	1000316-90-5	18
3	Octadecanoic acid, ethenyl ester	310	C20H38O2	000111-63-7	16
4	26-Nor-5-cholesten-3.beta.-ol-25...	386	C26H42O2	007494-34-0	15
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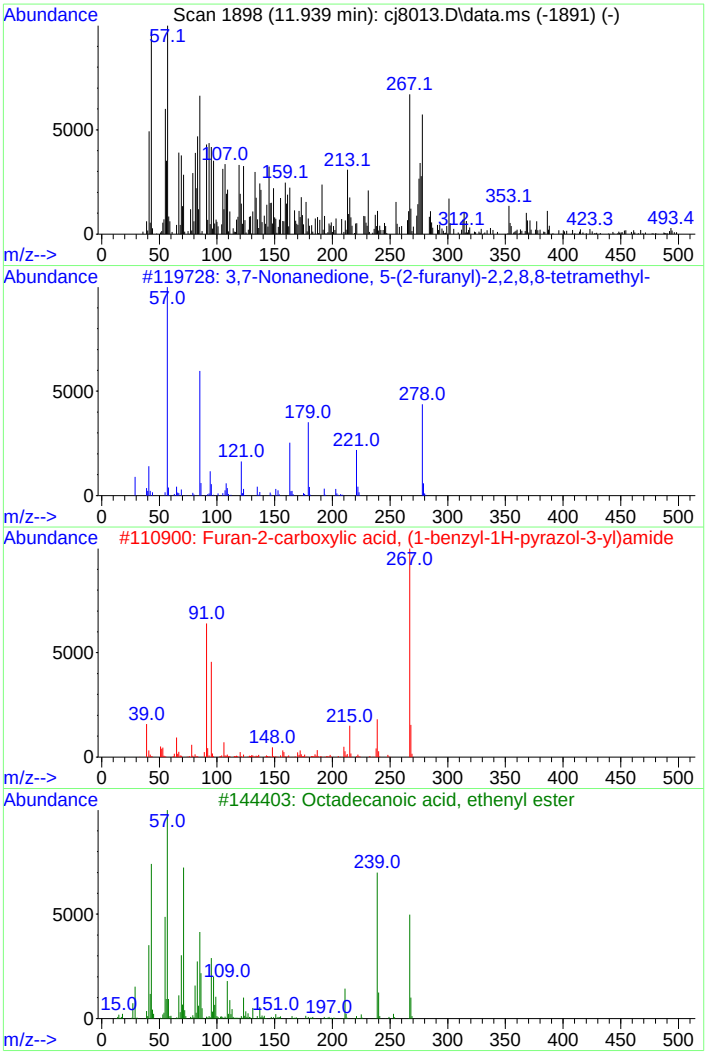

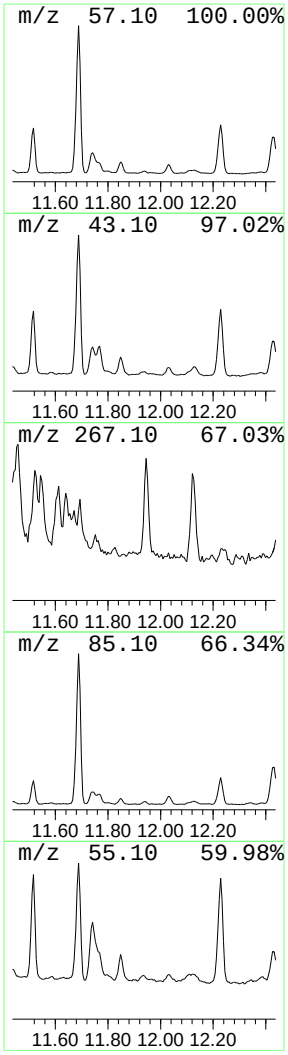

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Sample : jd91204-4
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ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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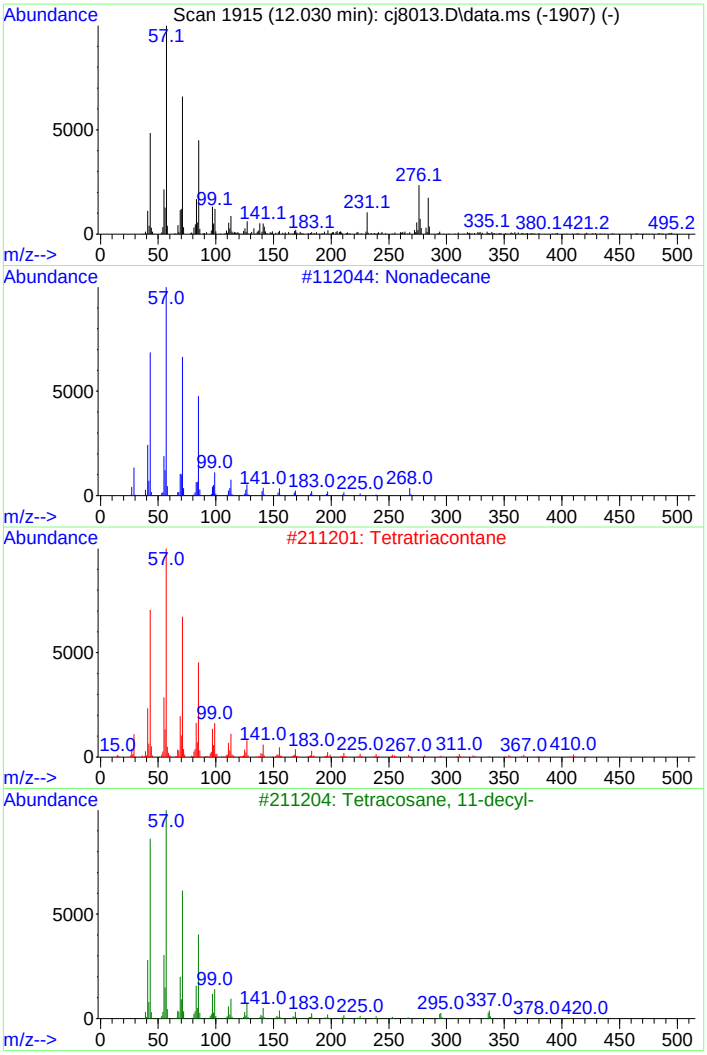
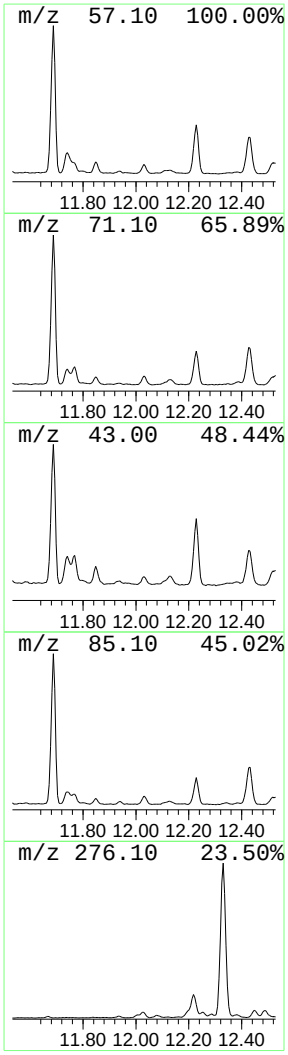
Peak Number 18 Alkane Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.030	10.95 ppm	1910780	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	93
2	Tetratriacontane	479	C34H70	014167-59-0	70
3	Tetracosane, 11-decyl-	479	C34H70	055429-84-0	62
4	Heptacosane, 1-chloro-	414	C27H55Cl	062016-79-9	62
5	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	58





Library Search Compound Report

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Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

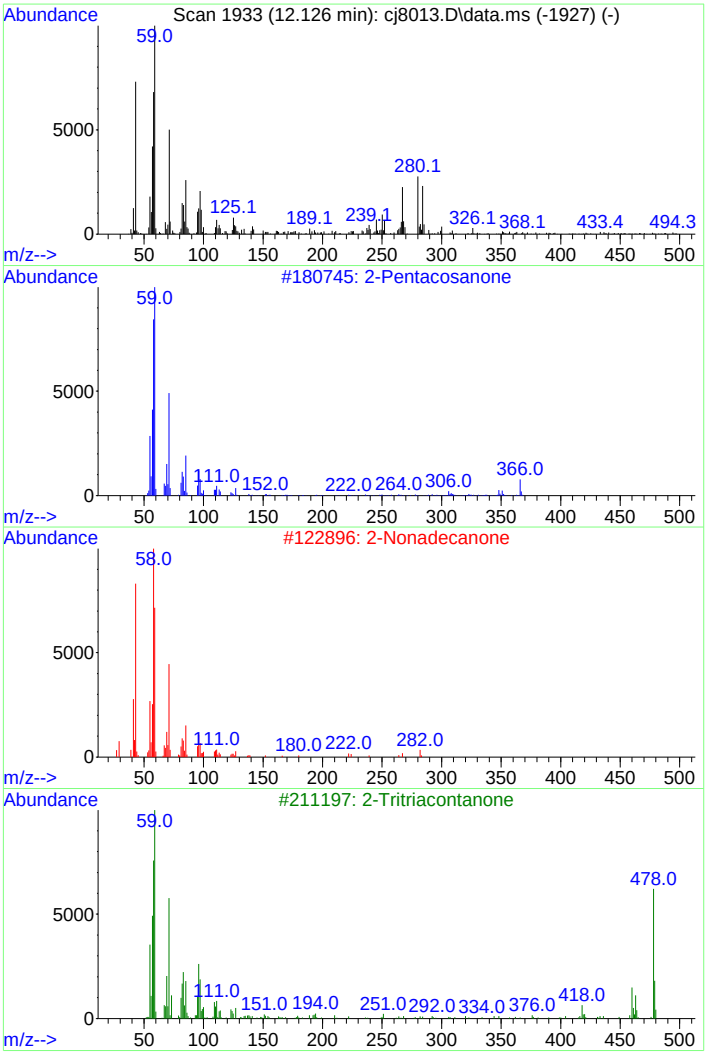
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

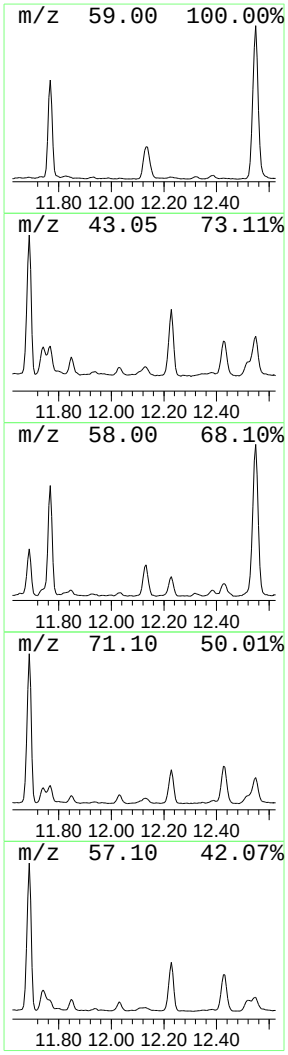
****

Peak Number 19 Unknown alcohol Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.126	10.72 ppm	1870730	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentacosanone	366	C25H50O	075207-54-4	49
2	2-Nonadecanone	282	C19H38O	000629-66-3	45
3	2-Tritriacontanone	479	C33H66O	075207-55-5	42
4	2-Hexadecanone	240	C16H32O	018787-63-8	38
5	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	35





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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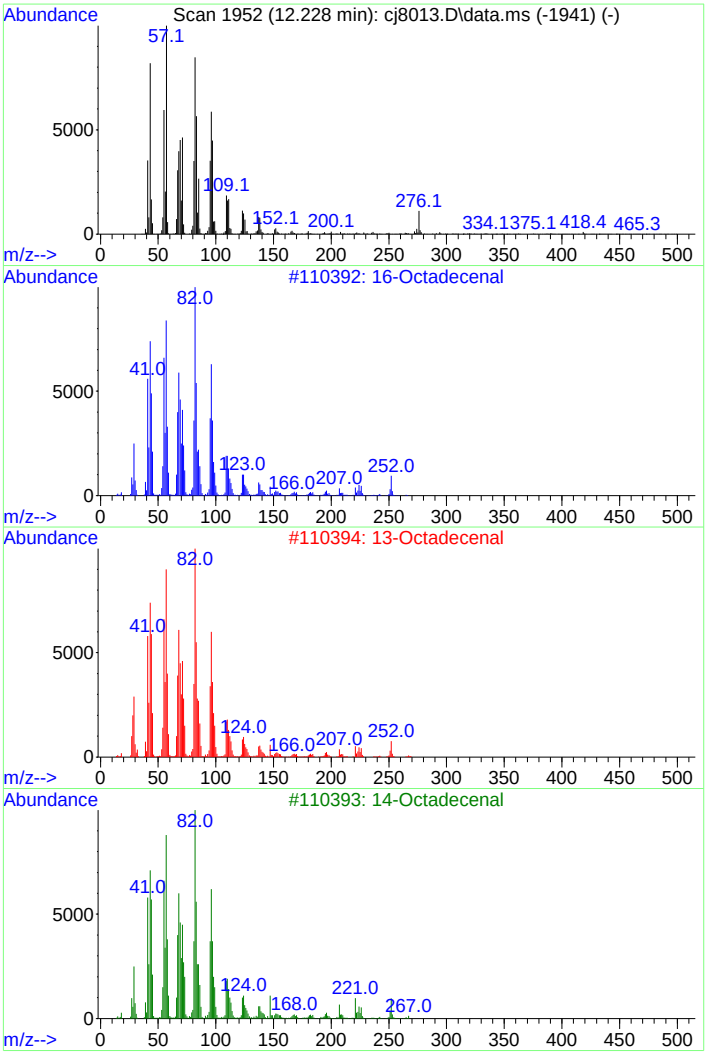
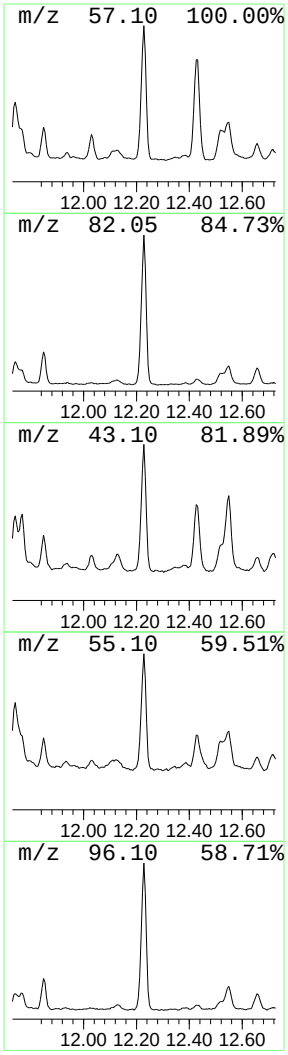
Peak Number 20 Unknown alcohol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.228	33.22 ppm	5797360	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	16-Octadecenal	266	C18H34O	056554-87-1	91
2	13-Octadecenal	266	C18H34O	056554-90-6	91
3	14-Octadecenal	266	C18H34O	056554-89-3	91
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
5	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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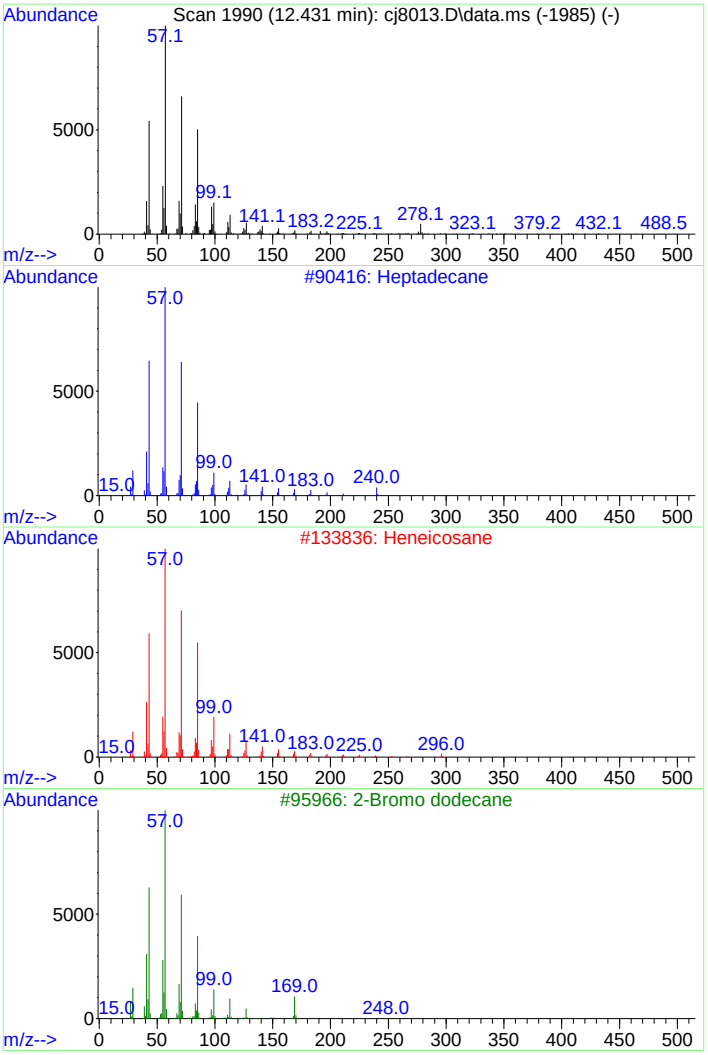
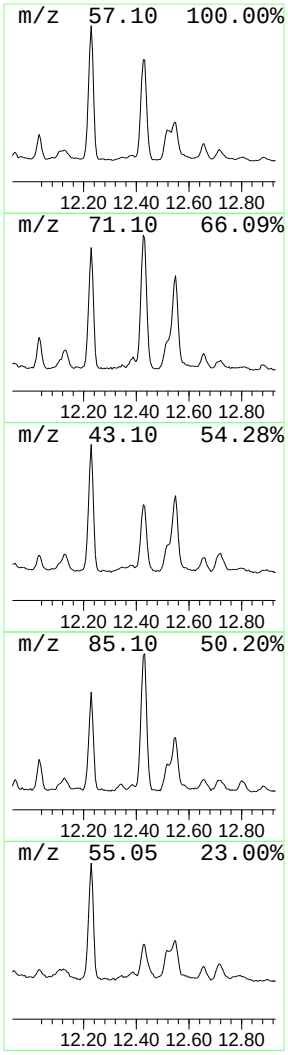
Peak Number 21 Alkane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.431	14.98 ppm	2615340	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	93
2	Heneicosane	296	C21H44	000629-94-7	91
3	2-Bromo dodecane	248	C12H25Br	013187-99-0	91
4	Octacosane	394	C28H58	000630-02-4	91
5	Hexatriacontane	507	C36H74	000630-06-8	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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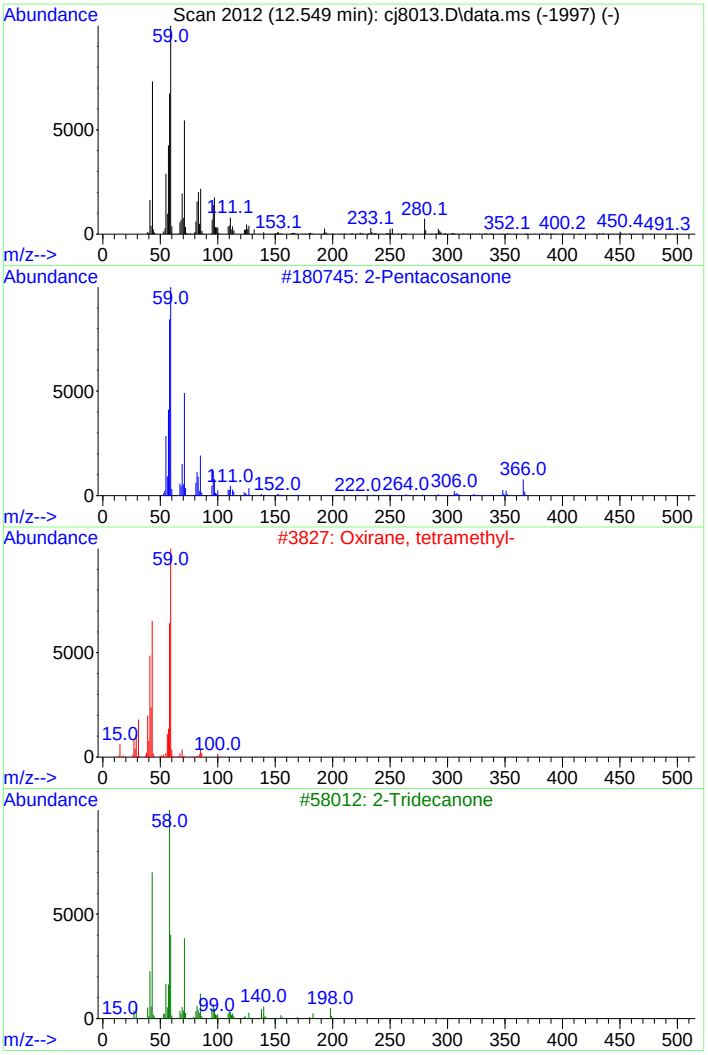
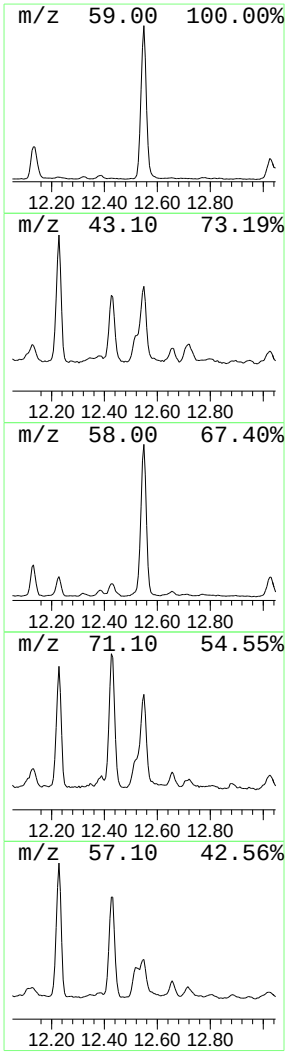
Peak Number 22 Unknown alcohol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.549	25.03 ppm	4368260	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentacosanone	366	C25H50O	075207-54-4	80
2	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	46
3	2-Tridecanone	198	C13H26O	000593-08-8	43
4	2-Nonadecanone	282	C19H38O	000629-66-3	43
5	Octanal, 7-hydroxy-3,7-dimethyl-	172	C10H20O2	000107-75-5	43





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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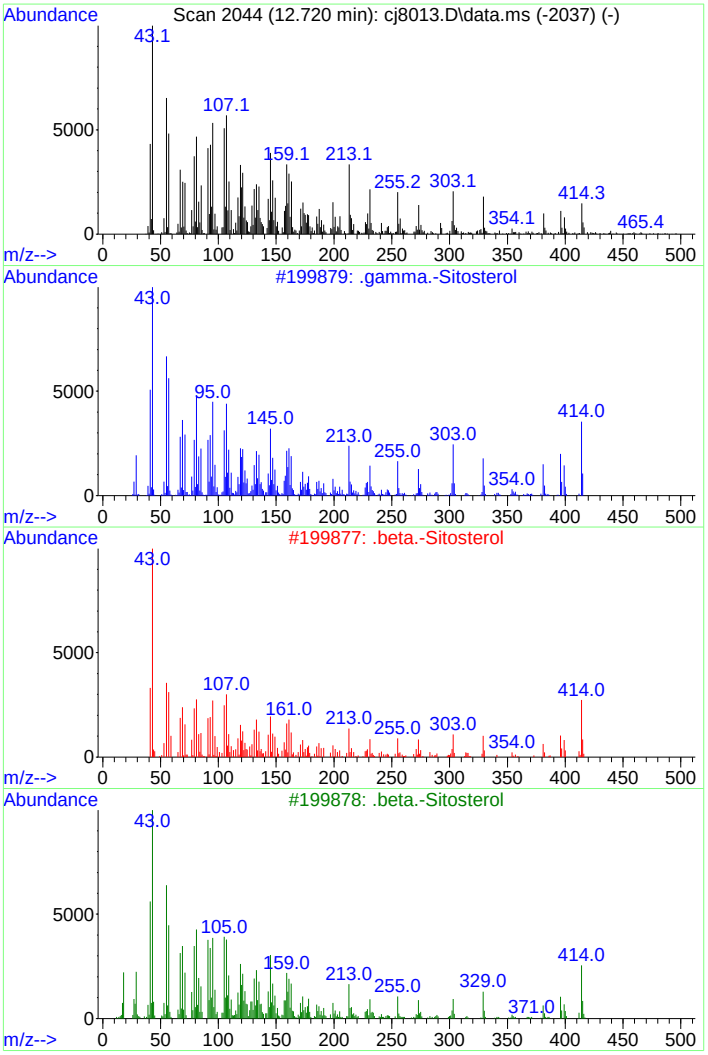
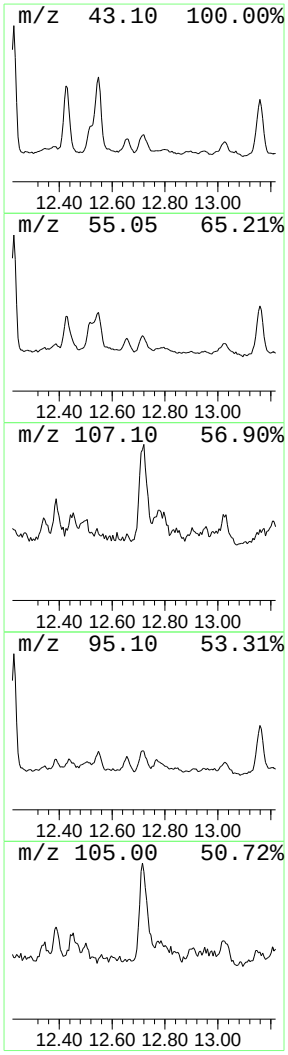
Peak Number 23 Sitosterol Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.720	9.69 ppm	1690700	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	92
4	.gamma.-Sitosterol	414	C29H50O	000083-47-6	64
5	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	64





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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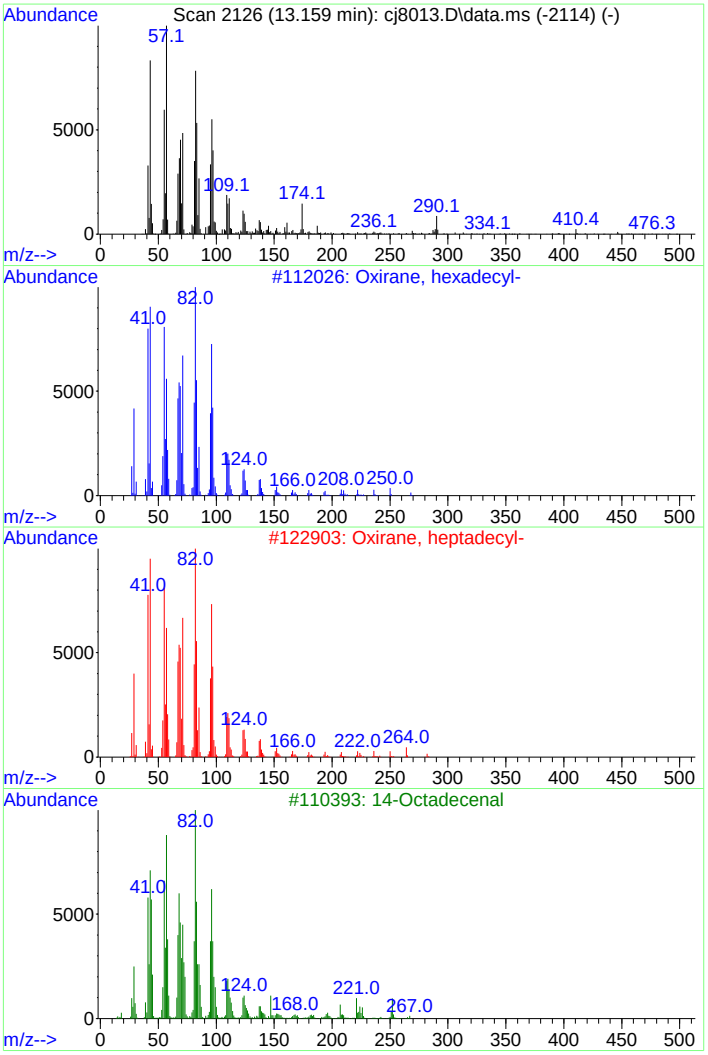
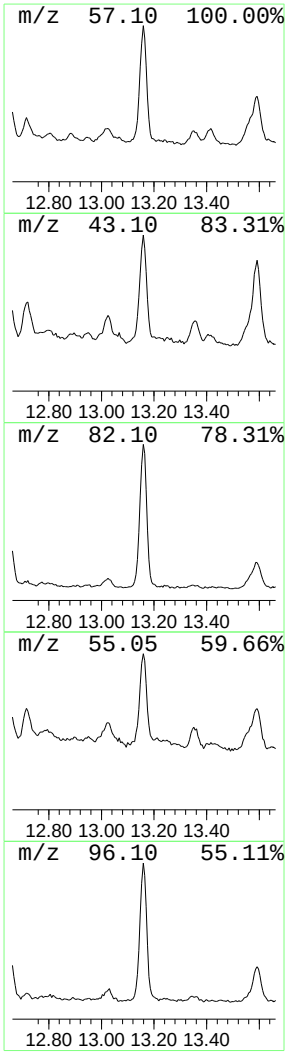
Peak Number 24 Unknown alcohol Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.159	13.29 ppm	2319010	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	90
2	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	90
3	14-Octadecenal	266	C18H34O	056554-89-3	90
4	Octadecanal	268	C18H36O	000638-66-4	68
5	1,19-Eicosadiene	278	C20H38	014811-95-1	64





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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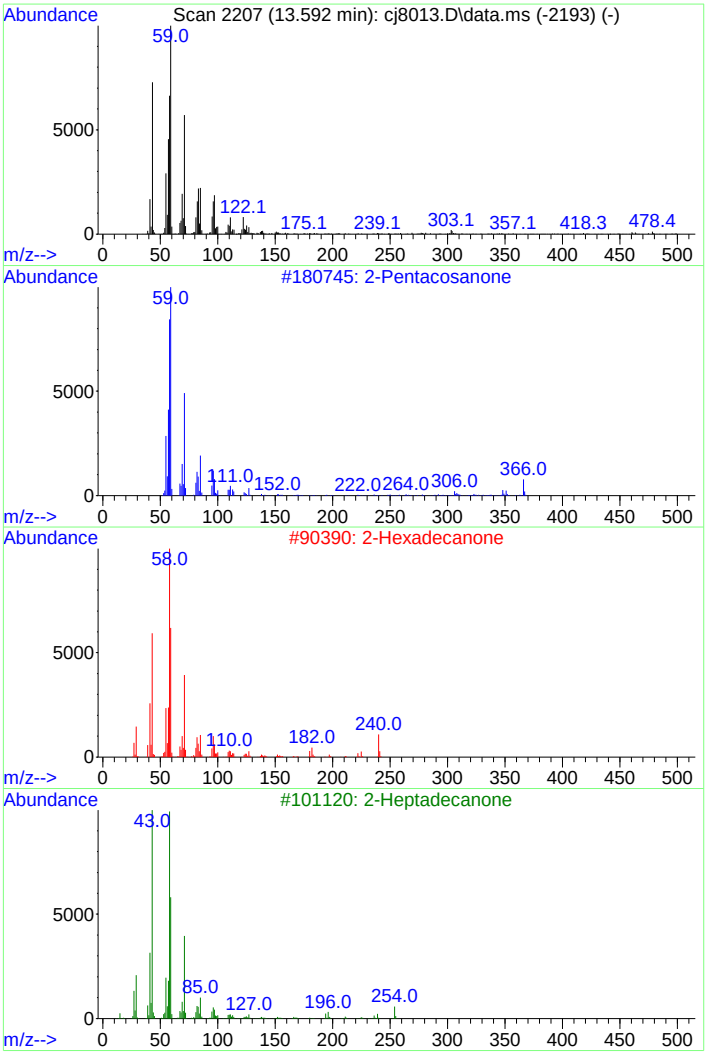
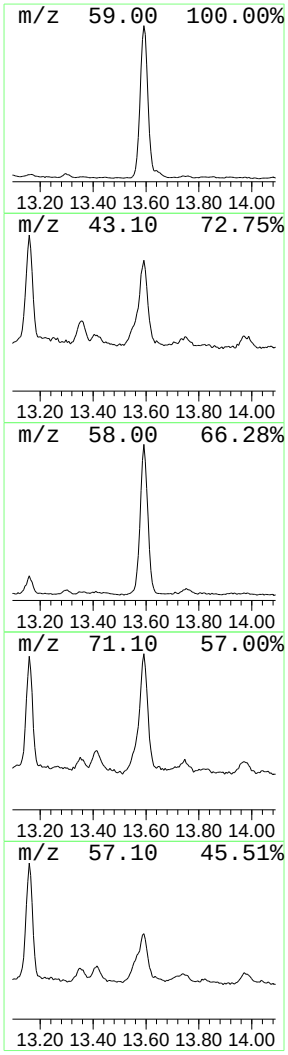
Peak Number 25 Unknown alcohol Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.592	10.01 ppm	1747450	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentacosanone	366	C25H50O	075207-54-4	58
2	2-Hexadecanone	240	C16H32O	018787-63-8	53
3	2-Heptadecanone	254	C17H34O	002922-51-2	50
4	2-Nonadecanone	282	C19H38O	000629-66-3	50
5	2-Pentadecanone	226	C15H30O	002345-28-0	47





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8013.D
Acq On : 01 Jul 2024 08:53 pm
Operator : karimam
Sample : jd91204-4
Misc : op55759,ecj348,30.2,,,1,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.542	21.7	ppm	1171710	2	4.365	2157160	40.0
n-Hexadecanoic ...	7.997	7.5	ppm	752774	8	7.489	3998630	40.0
Pyrene methyl	9.222	6.7	ppm	936813	9	9.971	5573550	40.0
Unknown	9.891	9.0	ppm	1258900	9	9.971	5573550	40.0
Unknown	10.527	15.0	ppm	2088610	10	9.971	5573550	40.0
Unknown acid	10.725	6.7	ppm	1161740	11	11.287	6981250	40.0
Unknown PAH sub...	11.046	12.2	ppm	2133540	11	11.287	6981250	40.0
Alkane	11.089	23.7	ppm	4132340	11	11.287	6981250	40.0
Unknown alcohol	11.121	29.7	ppm	5189080	11	11.287	6981250	40.0
Alkane	11.372	13.9	ppm	2421710	11	11.287	6981250	40.0
Unknown	11.442	16.3	ppm	2841720	11	11.287	6981250	40.0
Unknown alcohol	11.517	33.0	ppm	5751260	11	11.287	6981250	40.0
.gamma.-Tocopherol	11.592	8.6	ppm	1496380	11	11.287	6981250	40.0
Alkane	11.688	38.9	ppm	6789630	11	11.287	6981250	40.0
Unknown alcohol	11.741	26.0	ppm	4545630	11	11.287	6981250	40.0
Vitamin E	11.848	14.0	ppm	2446890	11	11.287	6981250	40.0
Unknown	11.939	8.8	ppm	1541310	11	11.287	6981250	40.0
Alkane	12.030	10.9	ppm	1910780	11	11.287	6981250	40.0
Unknown alcohol	12.126	10.7	ppm	1870730	11	11.287	6981250	40.0
Unknown alcohol	12.228	33.2	ppm	5797360	11	11.287	6981250	40.0
Alkane	12.431	15.0	ppm	2615340	11	11.287	6981250	40.0
Unknown alcohol	12.549	25.0	ppm	4368260	11	11.287	6981250	40.0
Sitosterol	12.720	9.7	ppm	1690700	11	11.287	6981250	40.0
Unknown alcohol	13.159	13.3	ppm	2319010	11	11.287	6981250	40.0
Unknown alcohol	13.592	10.0	ppm	1747450	11	11.287	6981250	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 07/02/24 05:10

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5 Inst : GCMSCJ
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 02 04:09:31 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

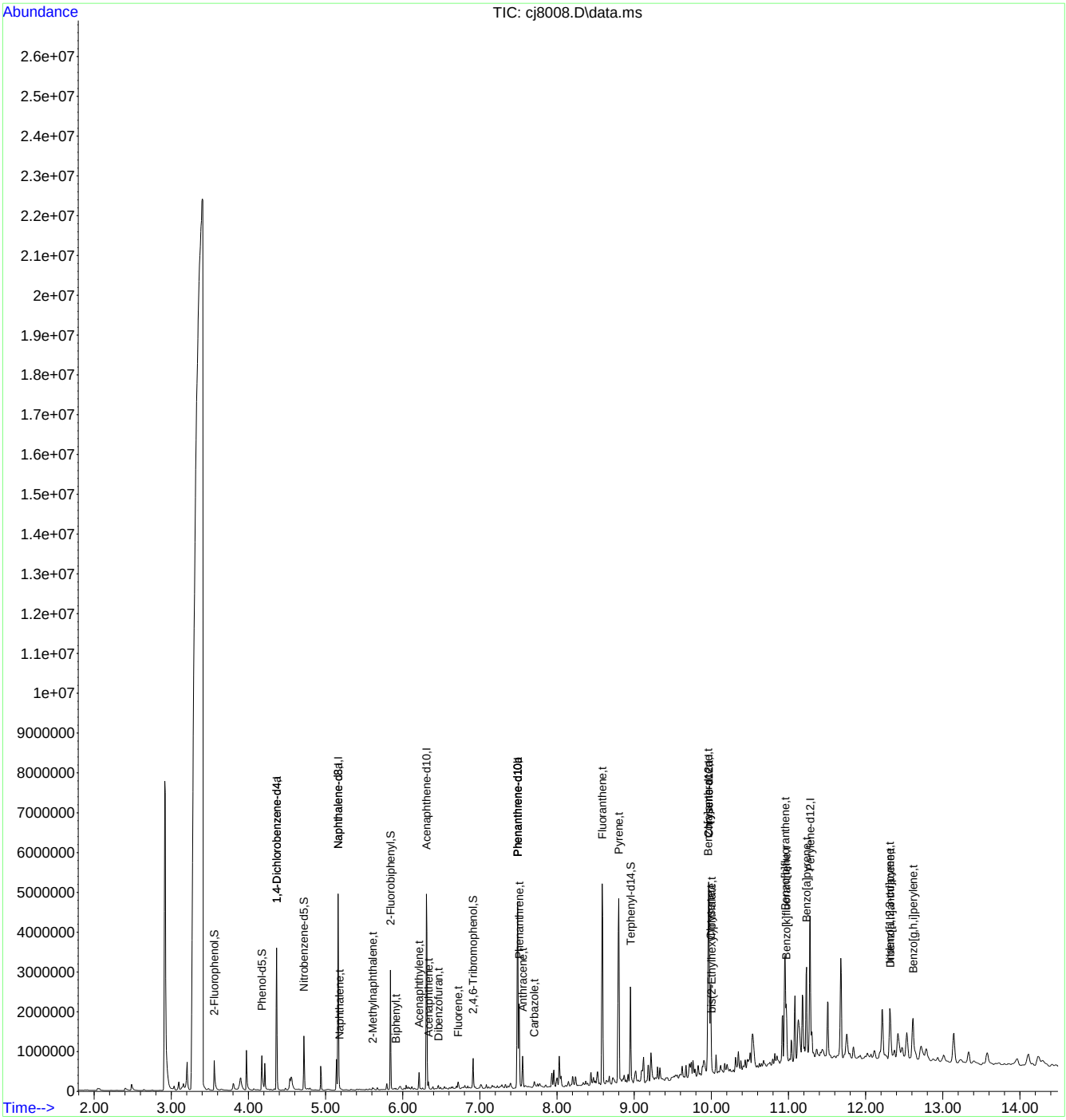
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.365	152	409292	40.00	ppm	0.00
24) Naphthalene-d8	5.162	136	1499705	40.00	ppm	0.00
46) Acenaphthene-d10	6.307	164	854184	40.00	ppm	0.00
69) Phenanthrene-d10	7.489	188	1579816	40.00	ppm	0.00
84) Chrysene-d12	9.965	240	1246664	40.00	ppm	0.00
93) Perylene-d12	11.281	264	1281168	40.00	ppm	0.01
103) 1,4-Dichlorobenzene-d4a	4.365	152	409292	40.00	ppm	0.00
105) Phenanthrene-d10a	7.489	188	1579816	40.00	ppm	0.00
107) Naphthalene-d8a	5.162	136	1499705	40.00	ppm	0.00
109) Phenanthrene-d10b	7.489	188	1579816	40.00	ppm	0.00
112) Chrysene-d12a	9.965	240	1246664	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.558	112	210728	17.91	ppm	0.03
Spiked Amount 50.000			Recovery = 35.82%			
8) Phenol-d5	4.173	99	317645	20.93	ppm	0.02
Spiked Amount 50.000			Recovery = 41.86%			
25) Nitrobenzene-d5	4.718	82	330369	21.51	ppm	0.00
Spiked Amount 50.000			Recovery = 43.02%			
51) 2-Fluorobiphenyl	5.841	172	666306	24.79	ppm	0.00
Spiked Amount 50.000			Recovery = 49.58%			
74) 2,4,6-Tribromophenol	6.911	330	65843	19.01	ppm	0.00
Spiked Amount 50.000			Recovery = 38.02%			
87) Terphenyl-d14	8.954	244	765879	24.86	ppm	0.00
Spiked Amount 50.000			Recovery = 49.72%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
38) Naphthalene	5.178	128	33101	0.9214	ppm	98
44) 2-Methylnaphthalene	5.611	141	11968	0.5619	ppm	95
53) Biphenyl	5.911	154	6215	0.2118	ppm	99
56) Acenaphthylene	6.211	152	149962	4.5264	ppm	100
59) Acenaphthene	6.334	153	36514	1.5498	ppm	98
62) Dibenzofuran	6.462	168	26751	0.8182	ppm	99
66) Fluorene	6.719	166	51076m	1.9775	ppm	
78) Phenanthrene	7.510	178	735469	19.2633	ppm	99
79) Anthracene	7.553	178	257761	6.7425	ppm	98
80) Carbazole	7.703	167	53697	1.5074	ppm	97
82) Fluoranthene	8.585	202	1924240	46.5536	ppm	97
86) Pyrene	8.799	202	1789633	42.2111	ppm	99
89) Benzo[a]anthracene	9.960	228	932785	23.2711	ppm	96
91) Chrysene	9.992	228	836734	22.6255	ppm	99
92) bis(2-Ethylhexyl)phtha...	10.003	149	15671	0.5593	ppm	95
95) Benzo[b]fluoranthene	10.955	252	1236916m	31.9597	ppm	
96) Benzo[k]fluoranthene	10.971	252	377928m	10.8520	ppm	
97) Benzo[a]pyrene	11.233	252	865949	27.0282	ppm	99
98) Indeno[1,2,3-cd]pyrene	12.313	276	591088	15.2610	ppm	90
100) Dibenz[a,h]anthracene	12.319	278	162617	5.2545	ppm	78
102) Benzo[g,h,i]perylene	12.613	276	578763	19.2286	ppm	99

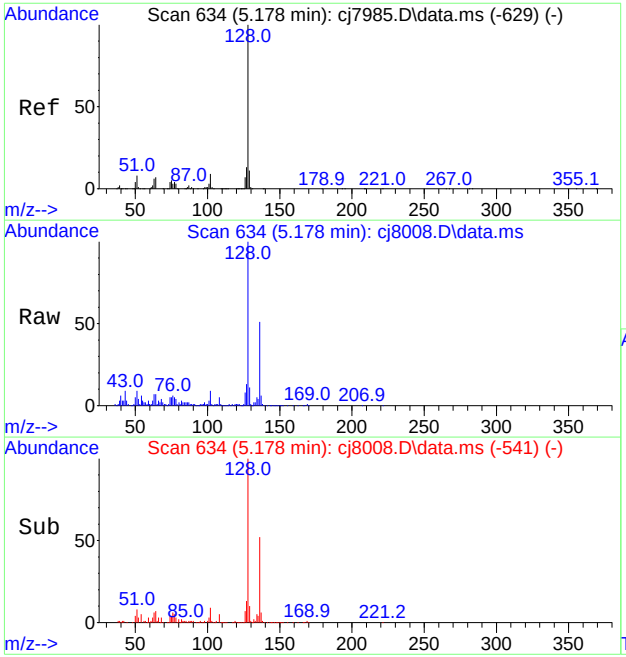
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5 Inst : GCMSCJ
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 02 04:09:31 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

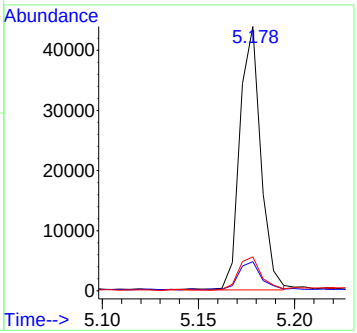


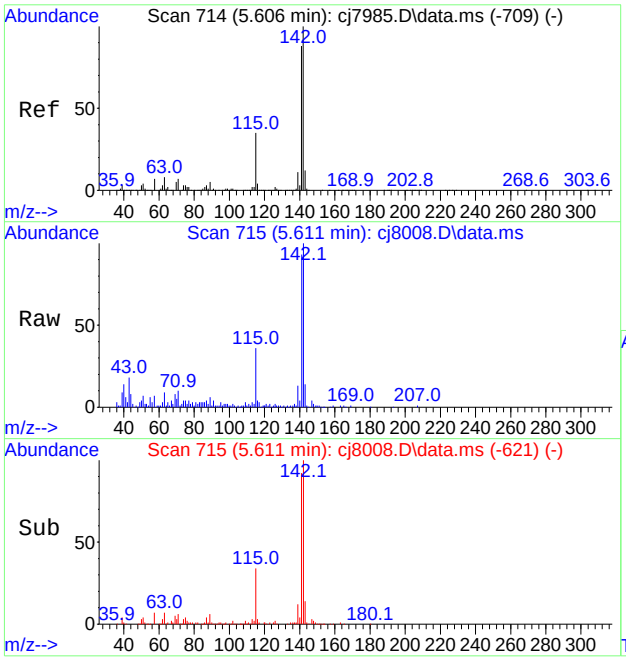


#38
Naphthalene
Concen: 0.9214 ppm
RT: 5.178 min Scan# 634
Delta R.T. 0.000 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:128 Resp: 33101

Ion	Ratio	Lower	Upper
128	100		
129	10.6	0.0	41.3
127	12.6	0.0	43.5

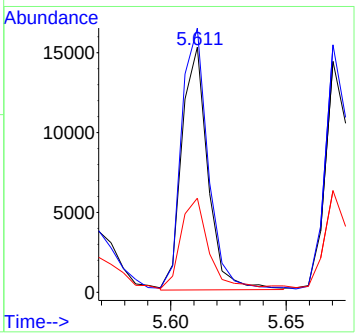


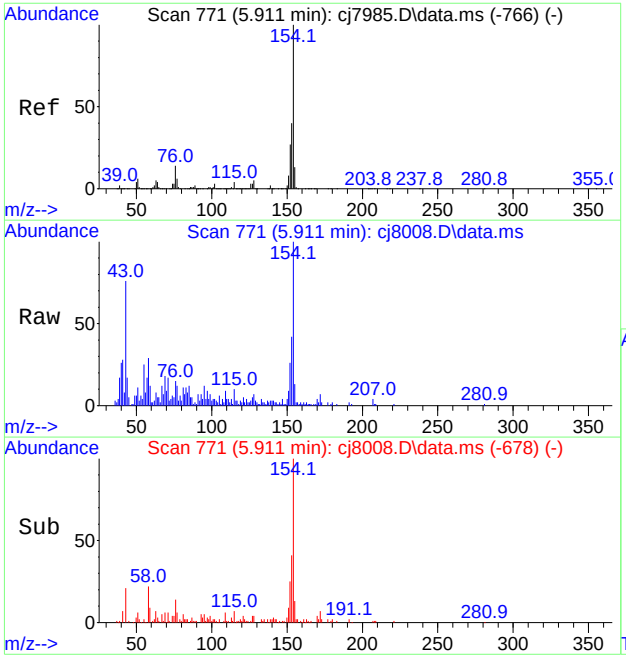


#44
2-Methylnaphthalene
Concen: 0.5619 ppm
RT: 5.611 min Scan# 715
Delta R.T. 0.005 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:141 Resp: 11968

Ion	Ratio	Lower	Upper
141	100		
142	107.9	83.7	143.7
115	37.0	9.3	69.3

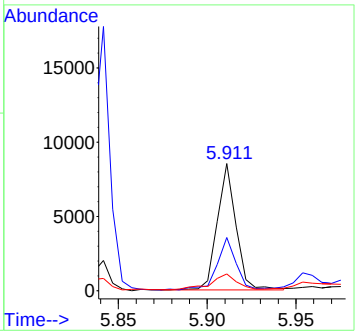


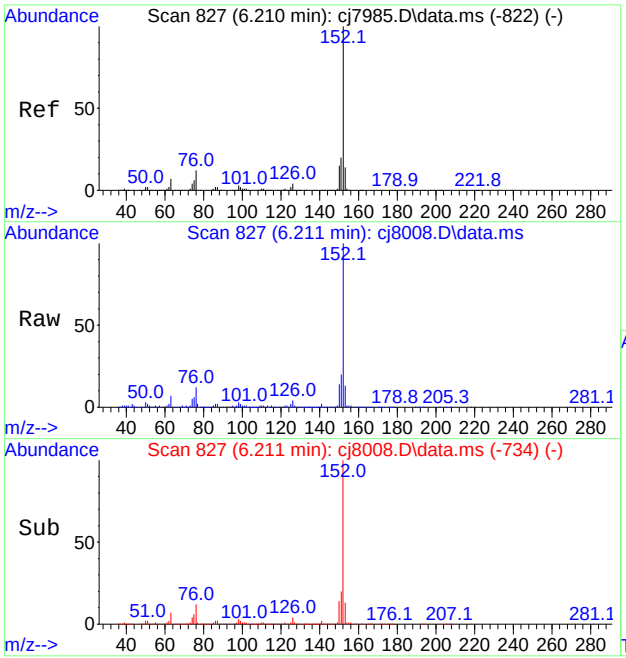


#53
Biphenyl
Concen: 0.2118 ppm
RT: 5.911 min Scan# 771
Delta R.T. 0.000 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:154 Resp: 6215

Ion	Ratio	Lower	Upper
154	100		
153	40.5	10.3	70.3
155	12.0	0.0	42.9

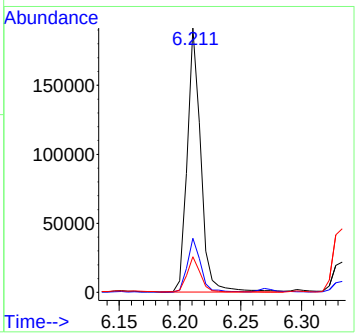


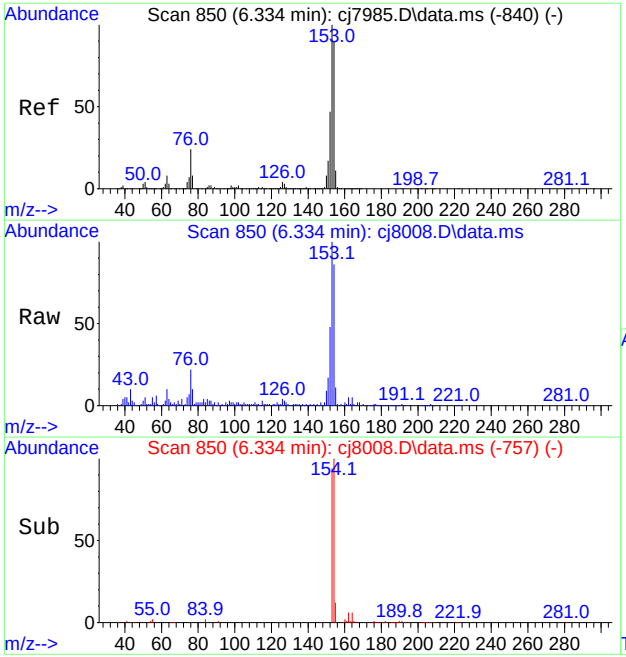


#56
Acenaphthylene
Concen: 4.5264 ppm
RT: 6.211 min Scan# 827
Delta R.T. 0.000 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:152 Resp: 149962

Ion	Ratio	Lower	Upper
152	100		
151	20.3	0.0	50.2
153	13.4	0.0	43.5

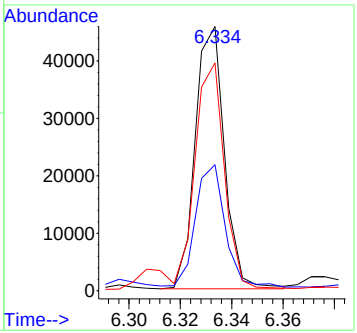


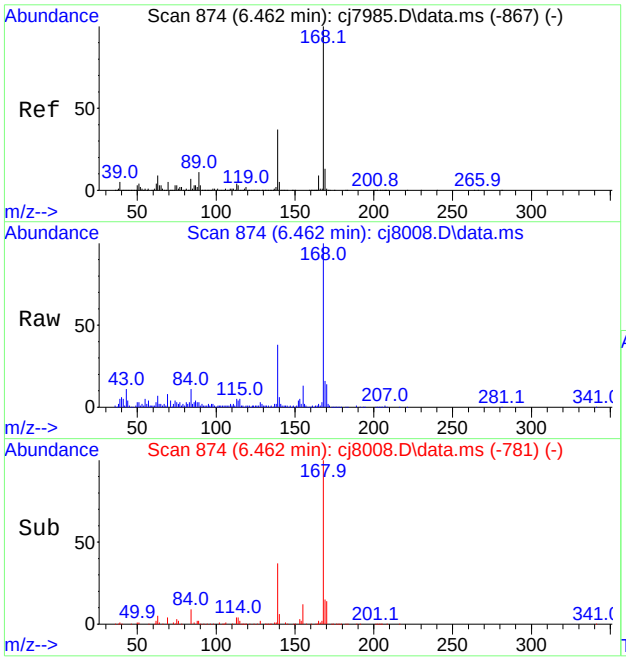


#59
Acenaphthene
Concen: 1.5498 ppm
RT: 6.334 min Scan# 850
Delta R.T. 0.000 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:153 Resp: 36514

Ion	Ratio	Lower	Upper
153	100		
152	46.6	16.9	76.9
154	82.9	56.2	116.2

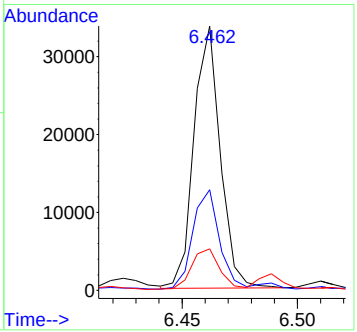


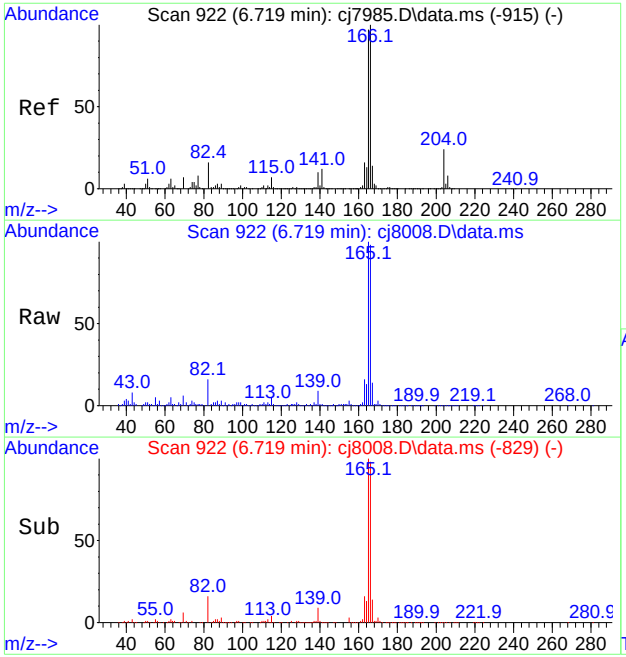


#62
Dibenzofuran
Concen: 0.8182 ppm
RT: 6.462 min Scan# 874
Delta R.T. 0.000 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:168 Resp: 26751

Ion	Ratio	Lower	Upper
168	100		
139	37.8	7.3	67.3
169	14.1	0.0	43.4

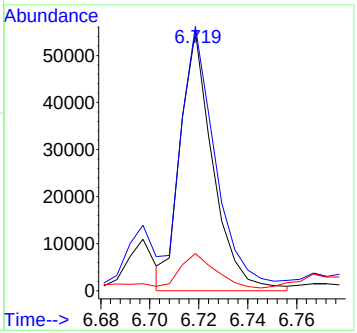


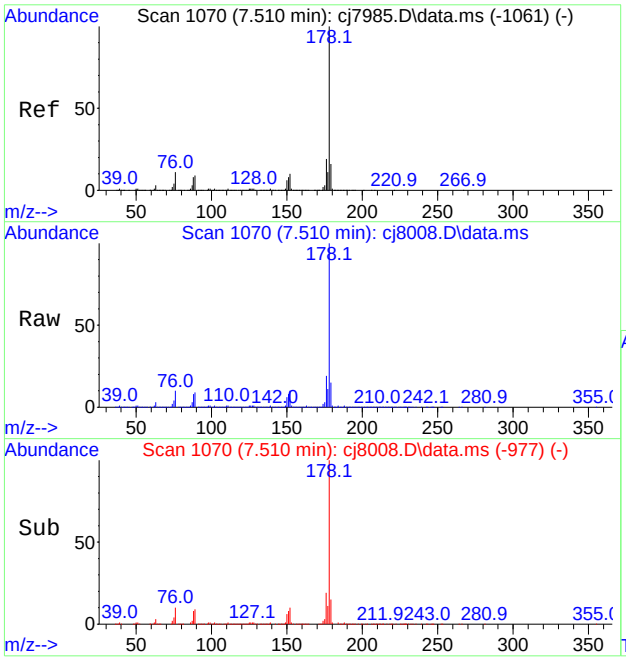


#66
Fluorene
Concen: 1.9775 ppm m
RT: 6.719 min Scan# 922
Delta R.T. 0.000 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:166 Resp: 51076

Ion	Ratio	Lower	Upper
166	100		
165	101.9	67.2	127.2
167	14.4	0.0	43.8

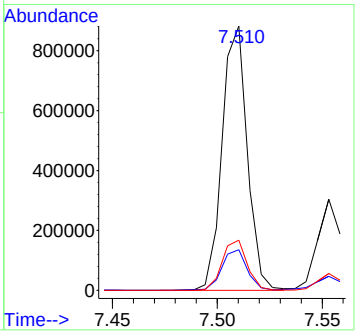


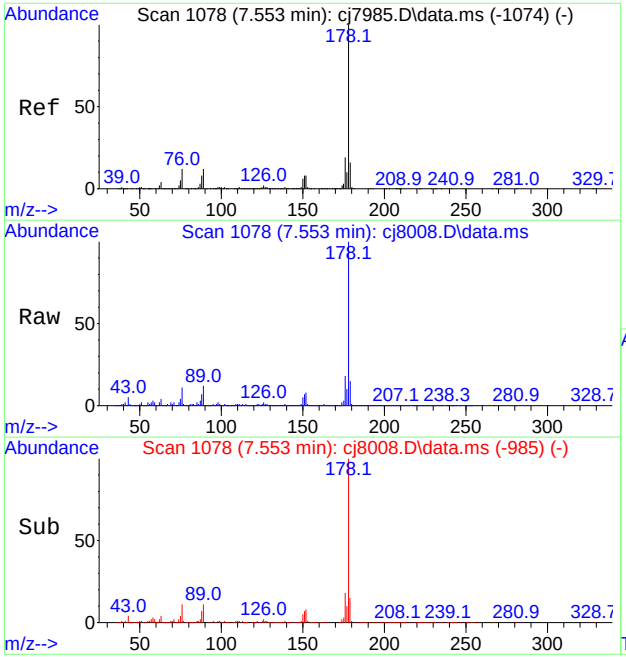


#78
Phenanthrene
Concen: 19.2633 ppm
RT: 7.510 min Scan# 1070
Delta R.T. 0.000 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:178 Resp: 735469

Ion	Ratio	Lower	Upper
178	100		
179	15.2	0.0	45.5
176	18.9	0.0	48.7

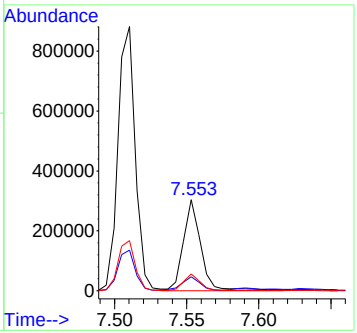


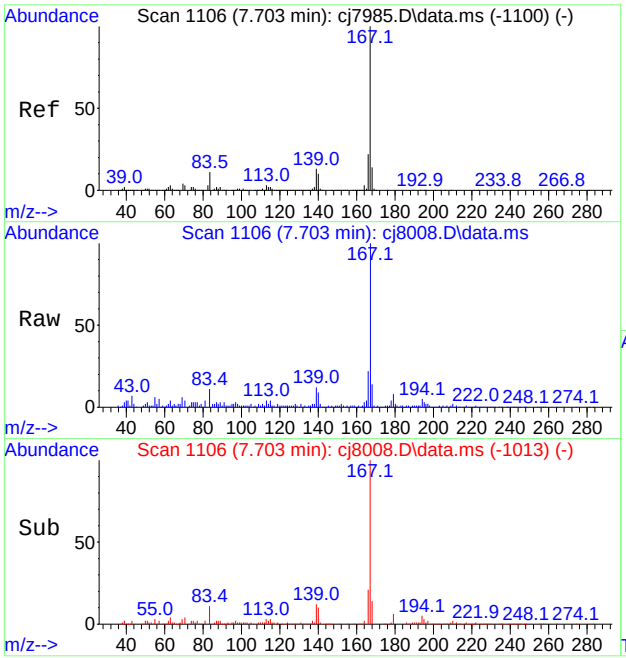


#79
Anthracene
Concen: 6.7425 ppm
RT: 7.553 min Scan# 1078
Delta R.T. 0.000 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:178 Resp: 257761

Ion	Ratio	Lower	Upper
178	100		
179	14.2	0.0	45.9
176	18.3	0.0	48.8

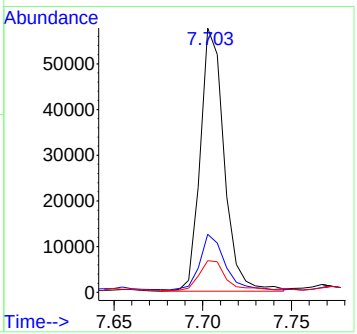


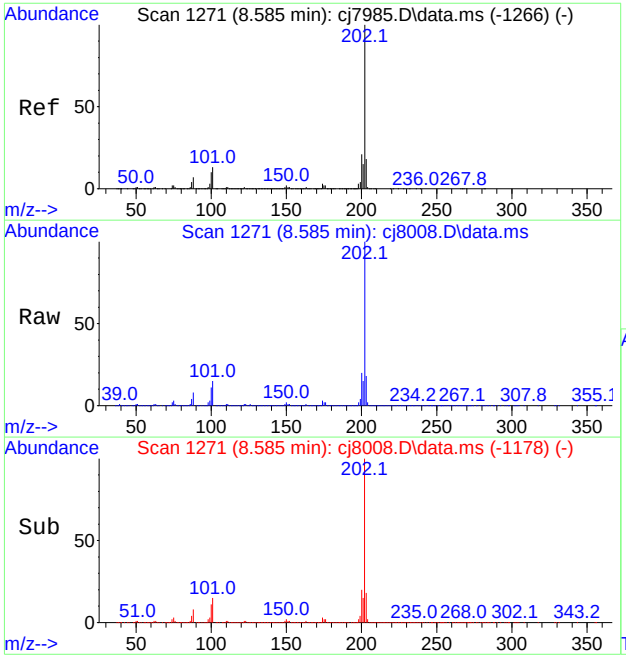


#80
Carbazole
Concen: 1.5074 ppm
RT: 7.703 min Scan# 1106
Delta R.T. 0.000 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:167 Resp: 53697

Ion	Ratio	Lower	Upper
167	100		
166	21.1	0.0	51.7
139	10.9	0.0	42.8

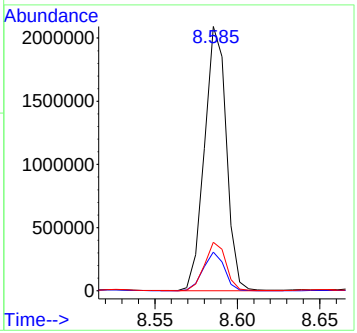


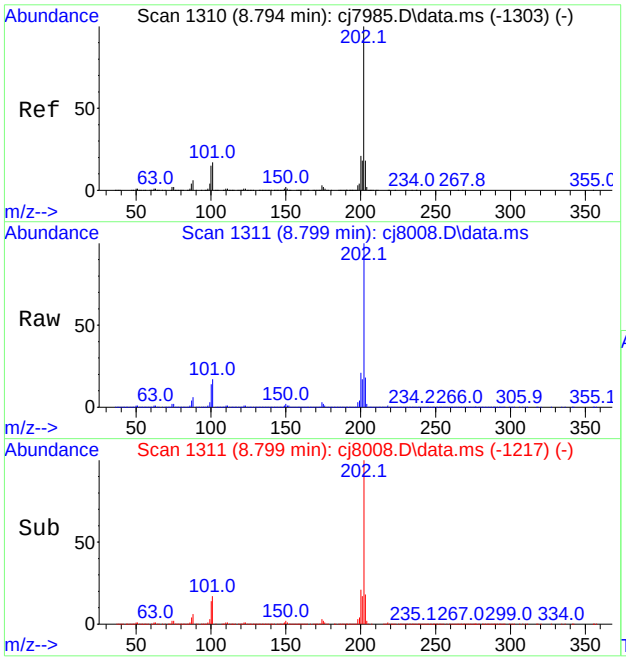


#82
Fluoranthene
Concen: 46.5536 ppm
RT: 8.585 min Scan# 1271
Delta R.T. 0.000 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:202 Resp: 1924240

Ion	Ratio	Lower	Upper
202	100		
101	14.6	0.0	42.9
203	18.2	0.0	47.5

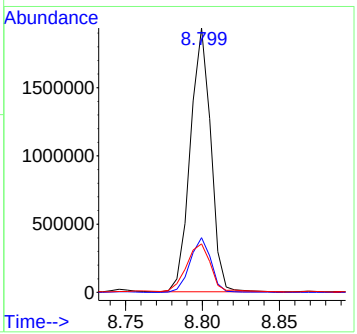


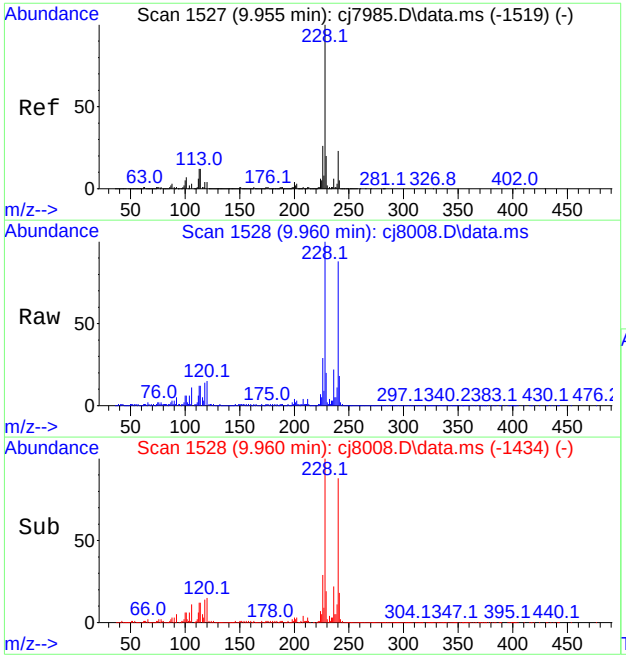


#86
Pyrene
Concen: 42.2111 ppm
RT: 8.799 min Scan# 1311
Delta R.T. 0.005 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:202 Resp: 1789633

Ion	Ratio	Lower	Upper
202	100		
200	20.7	0.0	51.0
203	18.2	0.0	48.5

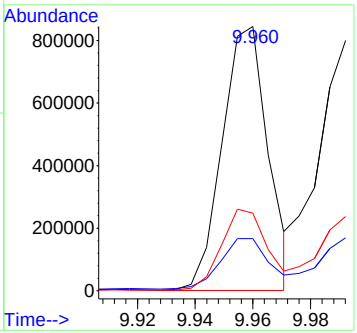


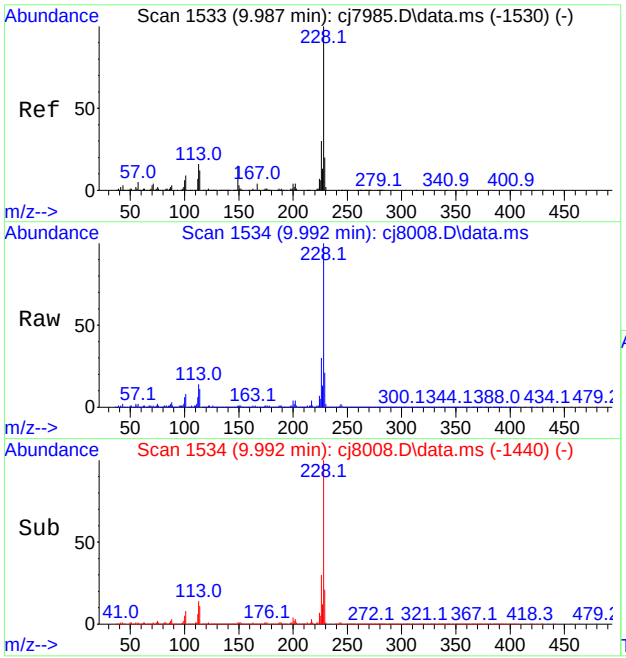


#89
Benzo[a]anthracene
Concen: 23.2711 ppm
RT: 9.960 min Scan# 1528
Delta R.T. 0.005 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:228 Resp: 932785

Ion	Ratio	Lower	Upper
228	100		
229	18.6	0.0	49.9
226	28.7	0.0	56.5

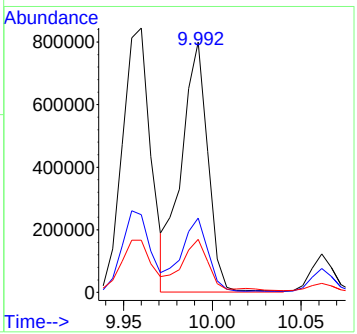


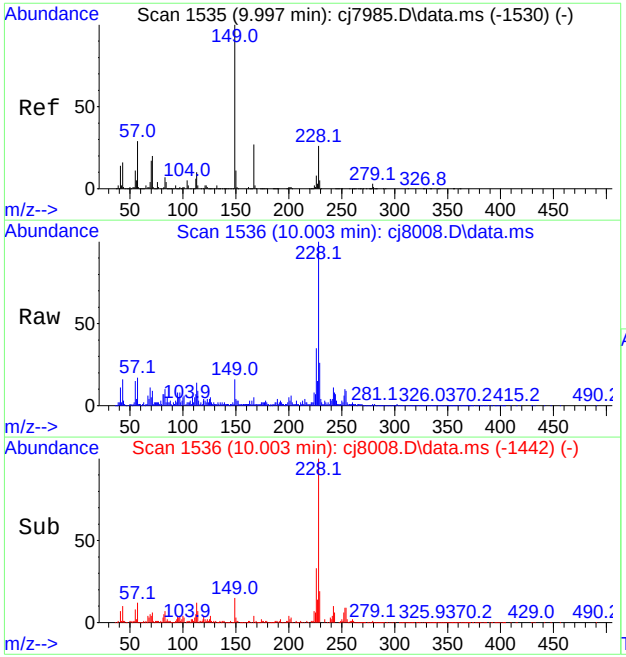


#91
Chrysene
Concen: 22.6255 ppm
RT: 9.992 min Scan# 1534
Delta R.T. 0.005 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:228 Resp: 836734

Ion	Ratio	Lower	Upper
228	100		
226	29.0	0.3	60.3
229	20.2	0.0	50.3

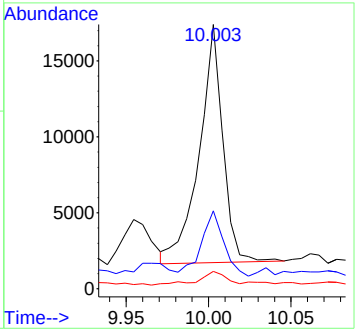


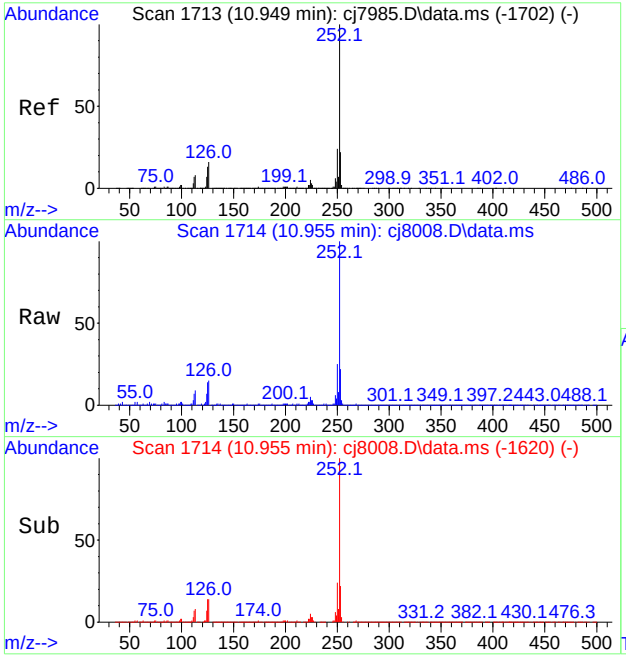


#92
bis(2-Ethylhexyl)phthalate
Concen: 0.5593 ppm
RT: 10.003 min Scan# 1536
Delta R.T. 0.005 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:149 Resp: 15671

Ion	Ratio	Lower	Upper
149	100		
167	24.4	0.0	56.9
279	5.0	0.0	33.4

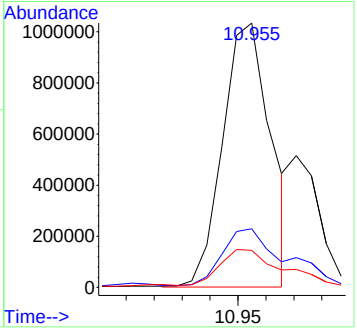


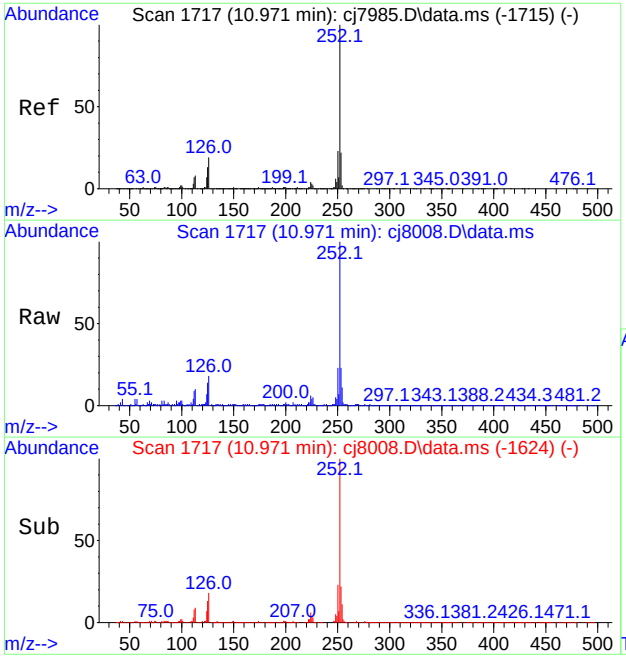


#95
Benzo[b]fluoranthene
Concen: 31.9597 ppm m
RT: 10.955 min Scan# 1714
Delta R.T. 0.005 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:252 Resp: 1236916

Ion	Ratio	Lower	Upper
252	100		
253	22.1	0.0	52.5
125	14.0	0.0	42.4

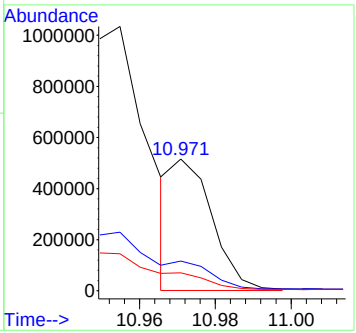


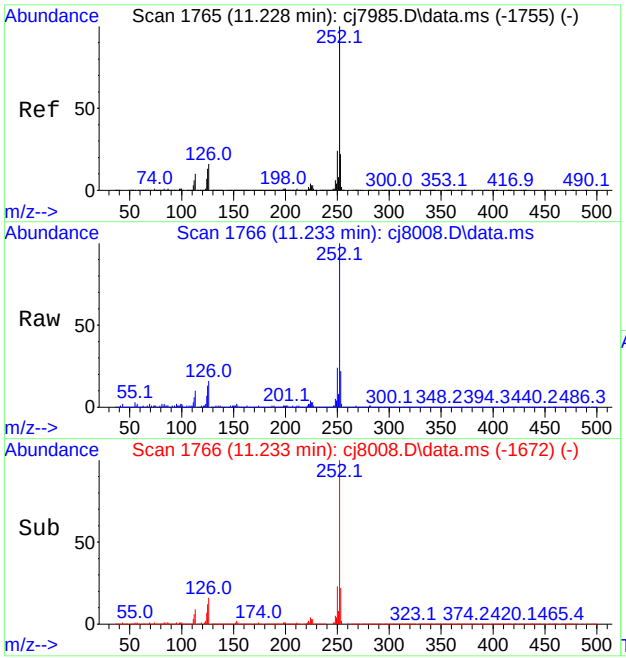


#96
Benzo[k]fluoranthene
Concen: 10.8520 ppm m
RT: 10.971 min Scan# 1717
Delta R.T. 0.000 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:252 Resp: 377928

Ion	Ratio	Lower	Upper
252	100		
253	22.6	0.0	51.7
125	13.7	0.0	43.5

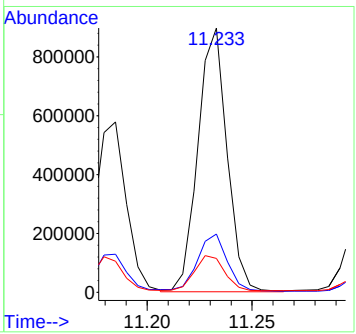


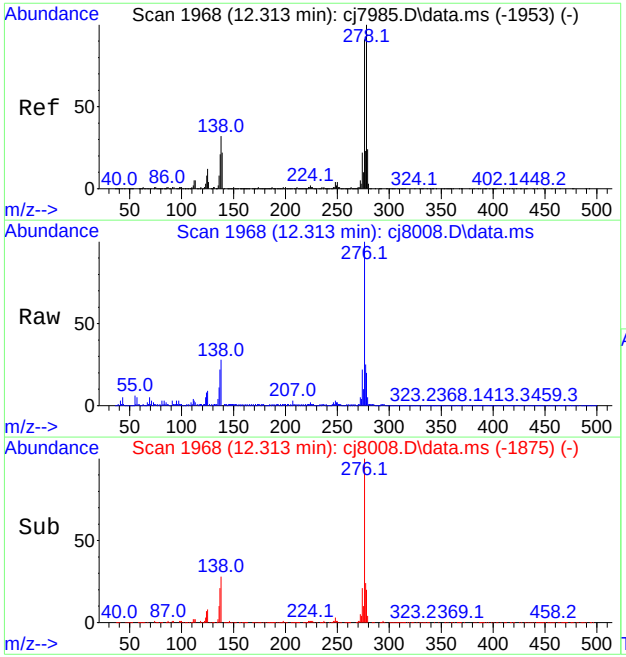


#97
Benzo[a]pyrene
Concen: 27.0282 ppm
RT: 11.233 min Scan# 1766
Delta R.T. 0.005 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:252 Resp: 865949

Ion	Ratio	Lower	Upper
252	100		
253	21.5	0.0	52.1
125	12.3	0.0	42.5

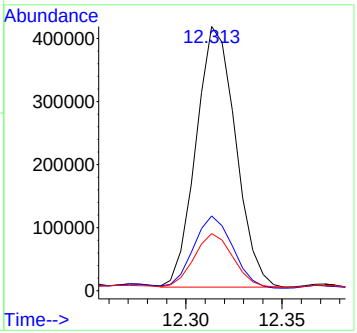


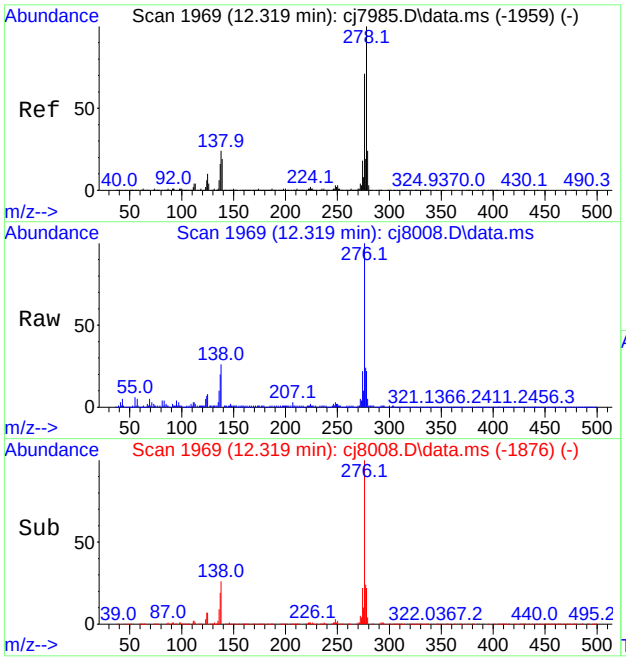


#98
Indeno[1,2,3-cd]pyrene
Concen: 15.2610 ppm
RT: 12.313 min Scan# 1968
Delta R.T. 0.000 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:276 Resp: 591088

Ion	Ratio	Lower	Upper
276	100		
138	27.3	5.2	65.2
137	20.5	0.0	53.3

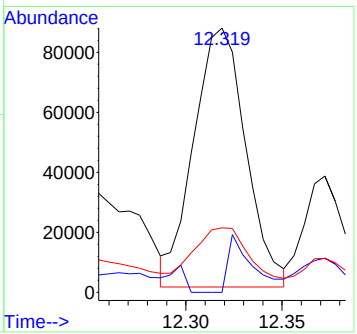


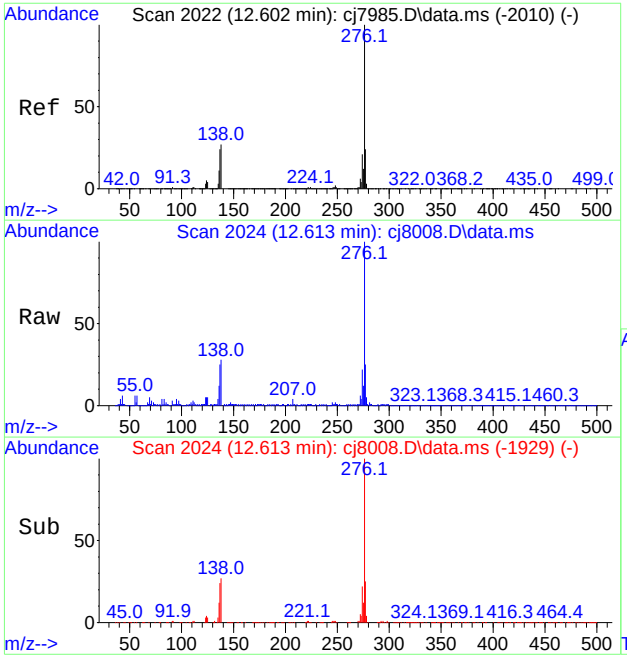


#100
Dibenz[a,h]anthracene
Concen: 5.2545 ppm
RT: 12.319 min Scan# 1969
Delta R.T. 0.000 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:278 Resp: 162617

Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	48.9
279	20.4	0.0	53.7

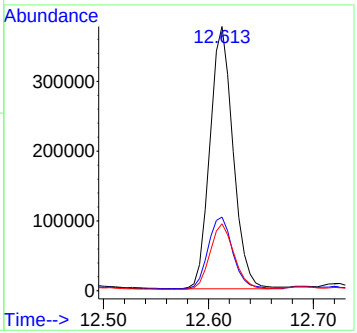




#102
Benzo[g,h,i]perylene
Concen: 19.2286 ppm
RT: 12.613 min Scan# 2024
Delta R.T. 0.011 min
Lab File: cj8008.D
Acq: 01 Jul 2024 07:19 pm

Tgt Ion:276 Resp: 578763

Ion	Ratio	Lower	Upper
276	100		
138	27.3	0.0	57.0
277	24.7	0.0	53.6



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj8008.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.173	441	446	451	rBV	866305	852747	13.06%	0.832%
2	4.210	451	453	460	rVB	655646	441579	6.76%	0.431%
3	4.365	478	482	493	rVB	3574868	2428143	37.20%	2.369%
4	4.552	508	517	529	rBV4	326432	807631	12.37%	0.788%
5	4.718	542	548	555	rBV	1355087	961133	14.72%	0.938%
6	4.938	583	589	596	rBV	605555	381053	5.84%	0.372%
7	5.141	620	627	629	rBV	774221	527880	8.09%	0.515%
8	5.162	629	631	643	rVB	4930101	3205962	49.11%	3.128%
9	5.841	754	758	764	rBV	3006675	1975358	30.26%	1.927%
10	6.211	823	827	833	rBV	428591	337458	5.17%	0.329%
11	6.307	840	845	856	rBV	4905118	3866697	59.23%	3.772%
12	6.719	919	922	927	rVB	177750	176904	2.71%	0.173%
13	6.911	953	958	962	rBV	748877	628898	9.63%	0.614%
14	7.013	968	977	983	rBV4	99554	168558	2.58%	0.164%
15	7.398	1045	1049	1056	rVB2	134825	192765	2.95%	0.188%
16	7.489	1056	1066	1068	rBV	4699857	4140108	63.42%	4.039%
17	7.510	1068	1070	1074	rVB	2066145	1539450	23.58%	1.502%
18	7.553	1074	1078	1082	rVB	774071	609779	9.34%	0.595%
19	7.703	1101	1106	1112	rBV	154112	240473	3.68%	0.235%
20	7.933	1145	1149	1151	rBV	349440	291279	4.46%	0.284%
21	7.960	1151	1154	1158	rVB	419654	368971	5.65%	0.360%
22	8.002	1158	1162	1164	rBV2	221100	248091	3.80%	0.242%
23	8.029	1164	1167	1179	rVB	772216	942111	14.43%	0.919%
24	8.200	1193	1199	1203	rBV	243016	291820	4.47%	0.285%
25	8.238	1203	1206	1210	rVB2	230404	224531	3.44%	0.219%
26	8.441	1239	1244	1247	rBV	332813	344827	5.28%	0.336%
27	8.527	1256	1260	1267	rVB3	332158	436481	6.69%	0.426%
28	8.585	1267	1271	1278	rBV	5053516	4655802	71.32%	4.542%
29	8.676	1285	1288	1293	rVB	205222	199380	3.05%	0.195%
30	8.724	1293	1297	1305	rBV3	167717	333147	5.10%	0.325%
31	8.799	1305	1311	1318	rBV	4625195	4804114	73.59%	4.687%
32	8.869	1318	1324	1327	rVB3	169468	211348	3.24%	0.206%
33	8.922	1331	1334	1336	rBV	201318	182511	2.80%	0.178%
34	8.949	1336	1339	1346	rVB	2416710	2289184	35.07%	2.233%
35	9.019	1346	1352	1356	rBV2	303856	479636	7.35%	0.468%
36	9.120	1361	1371	1375	rVB	649636	1025235	15.71%	1.000%
37	9.179	1375	1382	1386	rBV	445162	518260	7.94%	0.506%
38	9.217	1386	1389	1397	rBV	709372	870699	13.34%	0.849%
39	9.302	1402	1405	1408	rVB	313860	256434	3.93%	0.250%
40	9.334	1408	1411	1422	rVB2	318294	407529	6.24%	0.398%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.430	1422	1429	1433	rVB4	78858	168275	2.58%	0.164%
42	9.623	1462	1465	1469	rVB	271576	236379	3.62%	0.231%
43	9.671	1469	1474	1478	rVB	311981	267855	4.10%	0.261%
44	9.714	1478	1482	1485	rBV2	348931	501880	7.69%	0.490%
45	9.741	1485	1487	1489	rVB	286924	210587	3.23%	0.205%
46	9.762	1489	1491	1494	rBV	331591	244425	3.74%	0.238%
47	9.832	1499	1504	1507	rBV	271589	309851	4.75%	0.302%
48	9.901	1511	1517	1523	rBV3	378885	887446	13.59%	0.866%
49	9.965	1523	1529	1532	rBV2	4757394	6527774	100.00%	6.368%
50	9.992	1532	1534	1543	rVB	2245380	2001252	30.66%	1.952%
51	10.062	1543	1547	1551	rBV2	473779	454587	6.96%	0.443%
52	10.120	1555	1558	1565	rVB4	176455	218924	3.35%	0.214%
53	10.174	1565	1568	1571	rBV	229978	233528	3.58%	0.228%
54	10.201	1571	1573	1578	rVB4	169033	194298	2.98%	0.190%
55	10.313	1591	1594	1597	rBV2	379493	383591	5.88%	0.374%
56	10.350	1597	1601	1605	rVB	431579	401280	6.15%	0.391%
57	10.383	1605	1607	1610	rVB2	232670	180946	2.77%	0.177%
58	10.436	1610	1617	1620	rBV4	248394	377892	5.79%	0.369%
59	10.468	1620	1623	1625	rBV3	218458	256837	3.93%	0.251%
60	10.500	1625	1629	1632	rVB3	250552	242448	3.71%	0.237%
61	10.532	1632	1635	1644	rVB3	841327	1608245	24.64%	1.569%
62	10.677	1659	1662	1669	rVB4	152384	202624	3.10%	0.198%
63	10.757	1669	1677	1681	rBV6	102660	222210	3.40%	0.217%
64	10.821	1686	1689	1692	rBV	258899	248623	3.81%	0.243%
65	10.848	1692	1694	1701	rVB4	190194	269271	4.13%	0.263%
66	10.923	1701	1708	1710	rBV2	1209724	1216891	18.64%	1.187%
67	10.955	1710	1714	1723	rVB	2659497	4293401	65.77%	4.188%
68	11.035	1723	1729	1733	rVB2	544927	557441	8.54%	0.544%
69	11.083	1733	1738	1741	rBV	1653861	1537927	23.56%	1.500%
70	11.126	1741	1746	1753	rBV3	978212	2027375	31.06%	1.978%
71	11.179	1753	1756	1762	rVV	1551605	1810785	27.74%	1.766%
72	11.233	1762	1766	1770	rVV	2247234	2269385	34.77%	2.214%
73	11.281	1770	1775	1786	rVB2	3542849	4418306	67.68%	4.310%
74	11.367	1786	1791	1797	rBV5	197646	316536	4.85%	0.309%
75	11.436	1797	1804	1811	rVB3	175307	383510	5.88%	0.374%
76	11.506	1811	1817	1829	rVB2	1409787	1710416	26.20%	1.669%
77	11.677	1837	1849	1854	rVB	2505319	2941177	45.06%	2.869%
78	11.757	1854	1864	1869	rBV2	601447	1179775	18.07%	1.151%
79	11.843	1876	1880	1887	rVB2	284401	360755	5.53%	0.352%
80	12.116	1925	1931	1937	rVB5	202390	333777	5.11%	0.326%
81	12.217	1938	1950	1955	rBV4	1229437	2041315	31.27%	1.991%
82	12.313	1963	1968	1975	rBV	1264828	1956830	29.98%	1.909%
83	12.372	1975	1979	1982	rVV2	222227	330436	5.06%	0.322%
84	12.415	1982	1987	1994	rVV2	641403	1383305	21.19%	1.349%
85	12.469	1994	1997	2003	rVV2	294056	553326	8.48%	0.540%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.533	2003	2009	2016	rVV2	672832	1183840	18.14%	1.155%
87	12.613	2016	2024	2036	rVV	1035597	1972938	30.22%	1.925%
88	12.720	2036	2044	2052	rVV8	349800	959642	14.70%	0.936%
89	12.784	2052	2056	2068	rVB2	305018	669388	10.25%	0.653%
90	12.934	2078	2084	2090	rVB7	106402	189067	2.90%	0.184%
91	13.009	2090	2098	2114	rVB10	185549	513234	7.86%	0.501%
92	13.142	2114	2123	2131	rVB	745332	1376307	21.08%	1.343%
93	13.233	2133	2140	2151	rBV	81165	218612	3.35%	0.213%
94	13.335	2151	2159	2165	rVB2	285258	531127	8.14%	0.518%
95	13.405	2166	2172	2189	rVB7	108142	426014	6.53%	0.416%
96	13.576	2197	2204	2220	rVB2	299652	748830	11.47%	0.731%
97	13.961	2261	2276	2285	rVB10	167828	537400	8.23%	0.524%
98	14.111	2294	2304	2311	rBV2	275500	682927	10.46%	0.666%
99	14.234	2320	2327	2334	rBV2	227763	630175	9.65%	0.615%
100	14.292	2334	2338	2356	rVB5	153077	529883	8.12%	0.517%

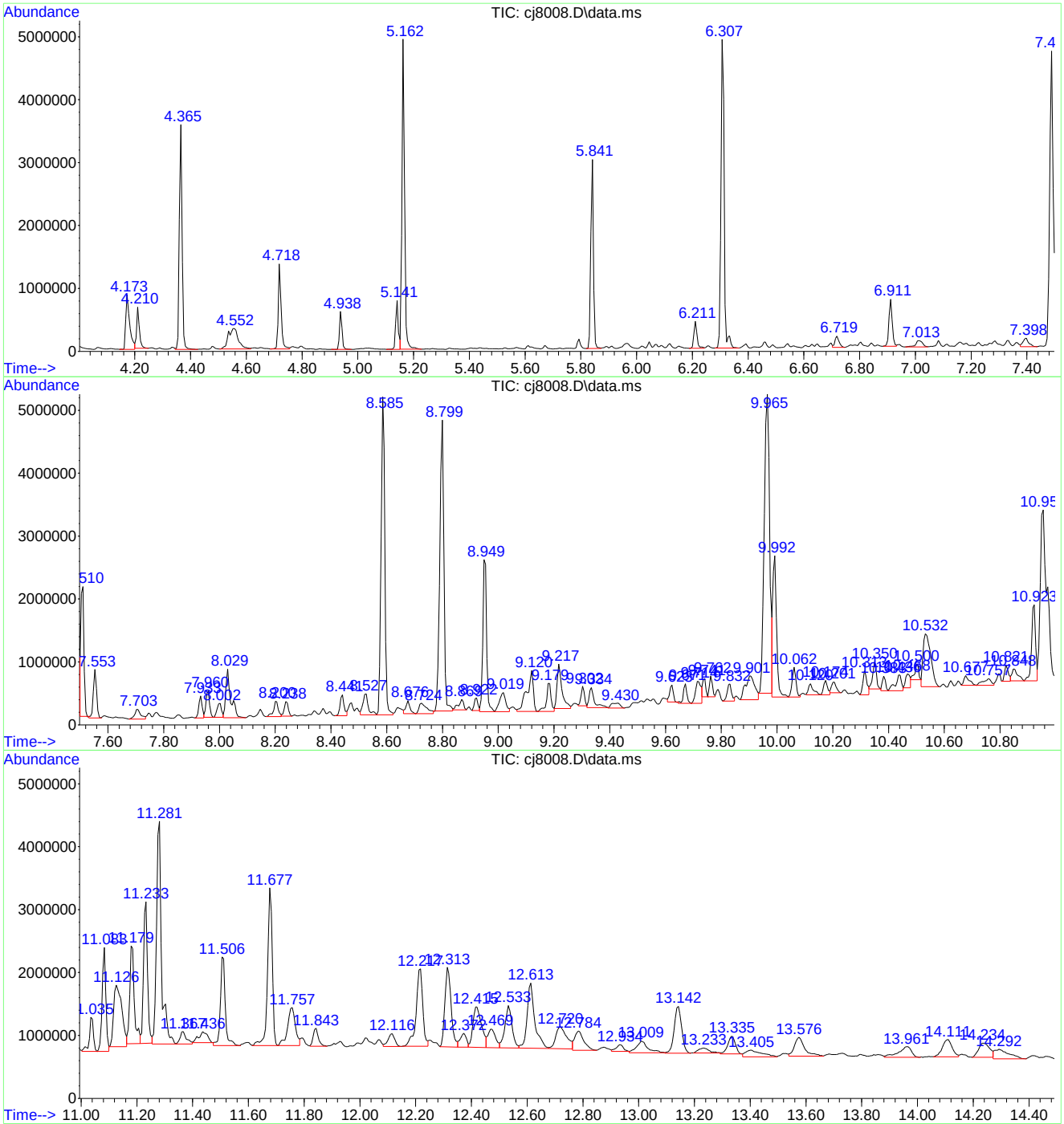
Sum of corrected areas: 102507047

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

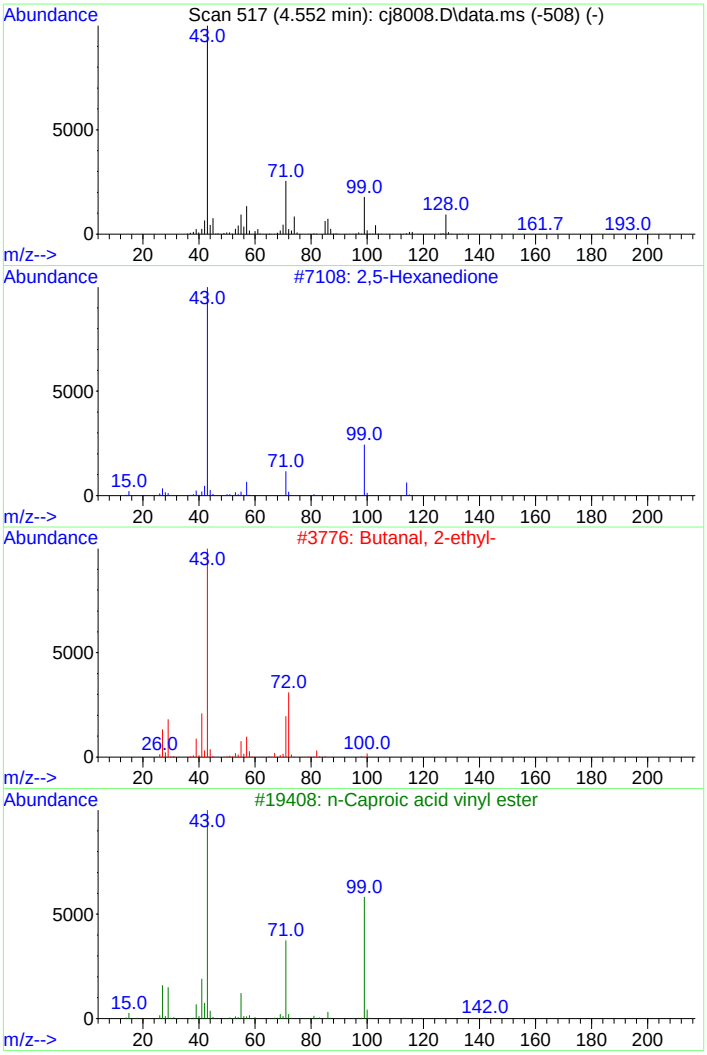
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

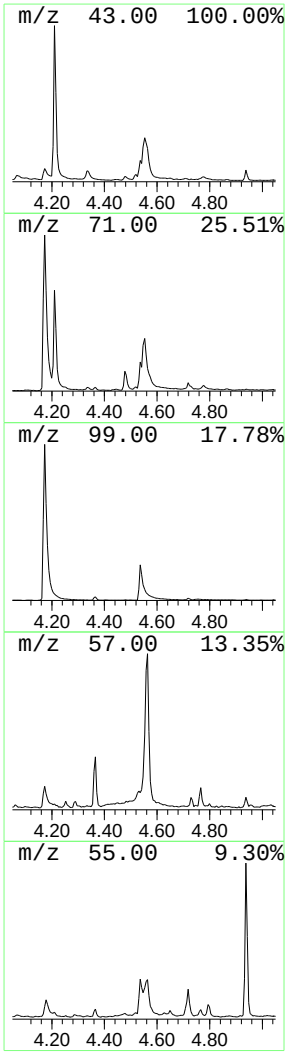
****

Peak Number 1 Unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.552	13.30 ppm	807631	1,4-Dichlorobenzene-d4a	4.365

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,5-Hexanedione	114	C6H10O2	000110-13-4	50
2	Butanal, 2-ethyl-	100	C6H12O	000097-96-1	43
3	n-Caproic acid vinyl ester	142	C8H14O2	003050-69-9	43
4	Isopentyloxyethyl acetate	174	C9H18O3	204652-53-9	38
5	3,4-Dimethyl-2-pentanone	114	C7H14O	1000202-23-1	37





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

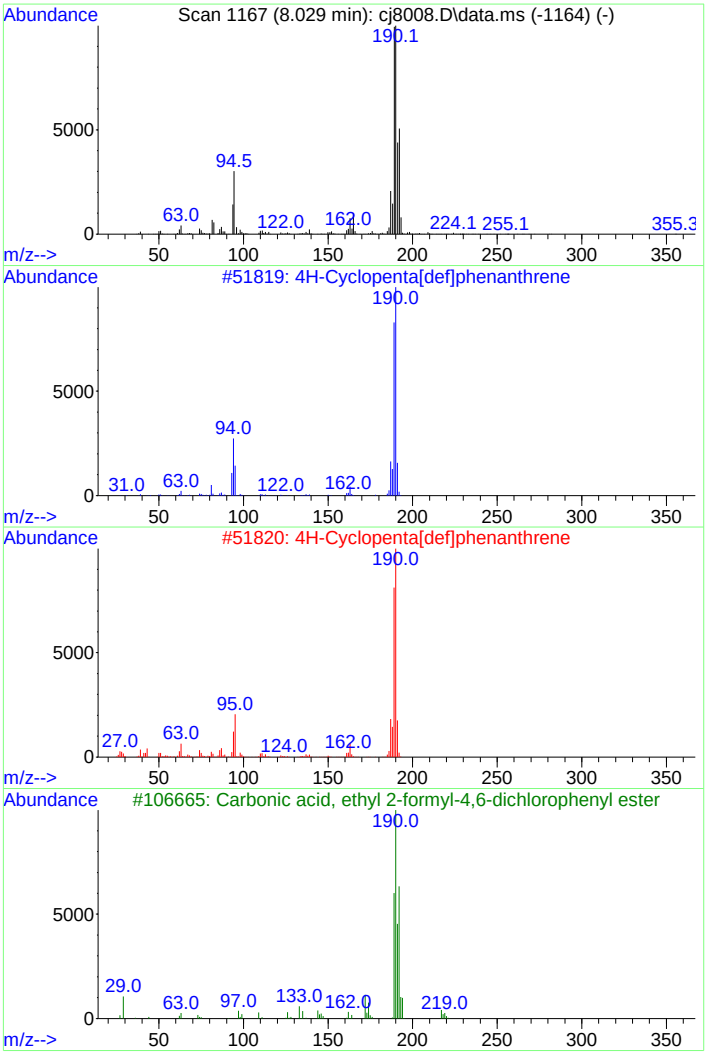
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

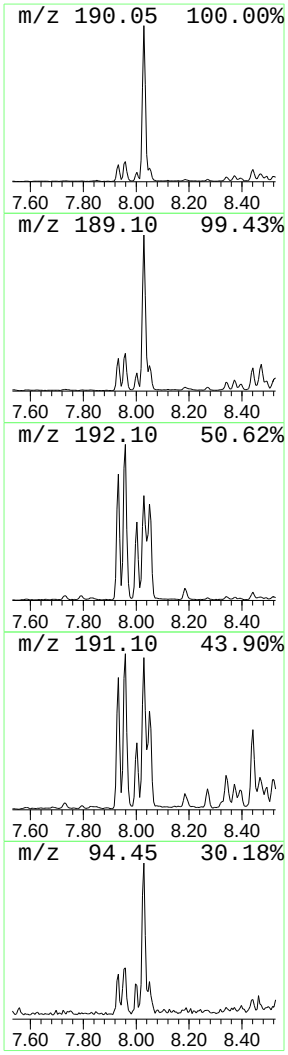
****

Peak Number 2 4H-Cyclopenta[def]phenanthrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.029	9.10 ppm	942111	Phenanthrene-d10b	7.489

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	53
3	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	47
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	35
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	18





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

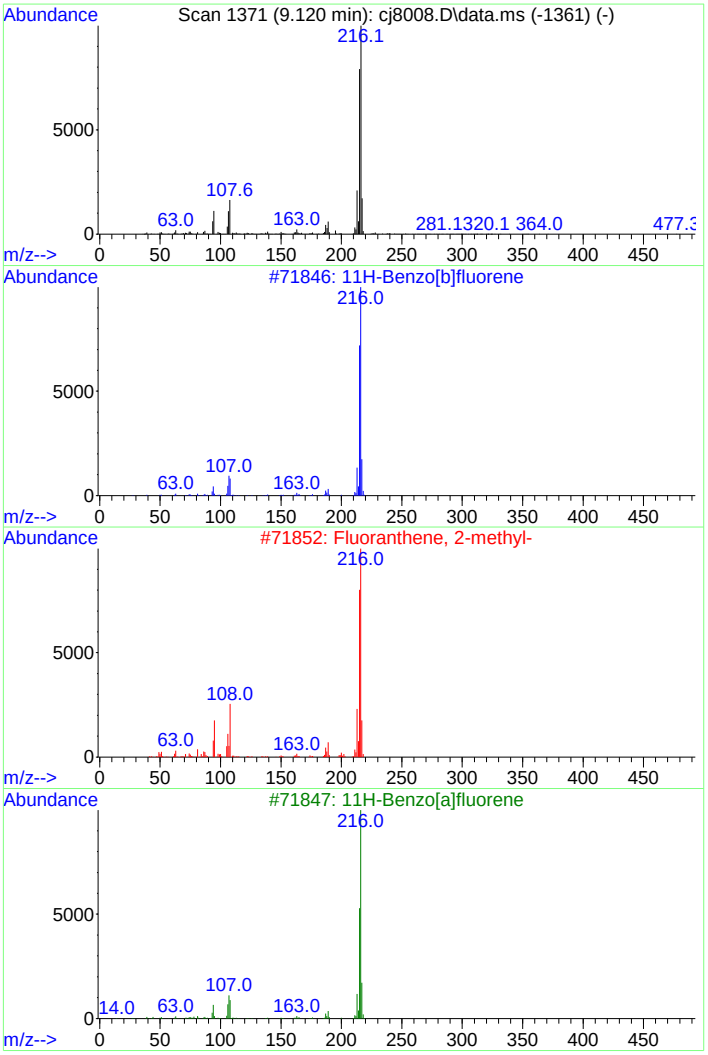
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

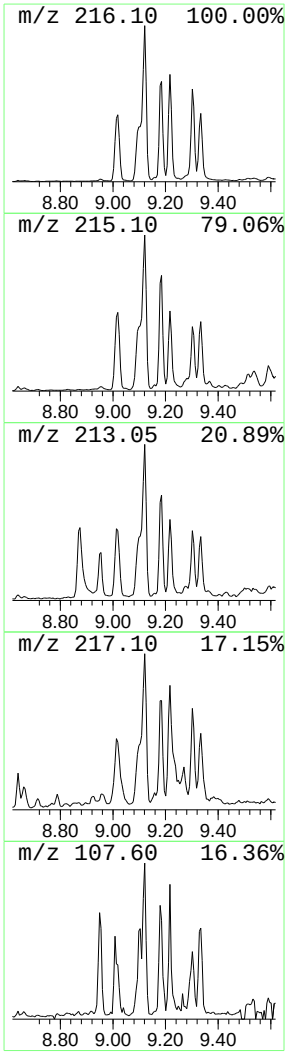
****

Peak Number 3 Pyrene methyl Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.120	6.28 ppm	1025240	Chrysene-d12	9.965

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

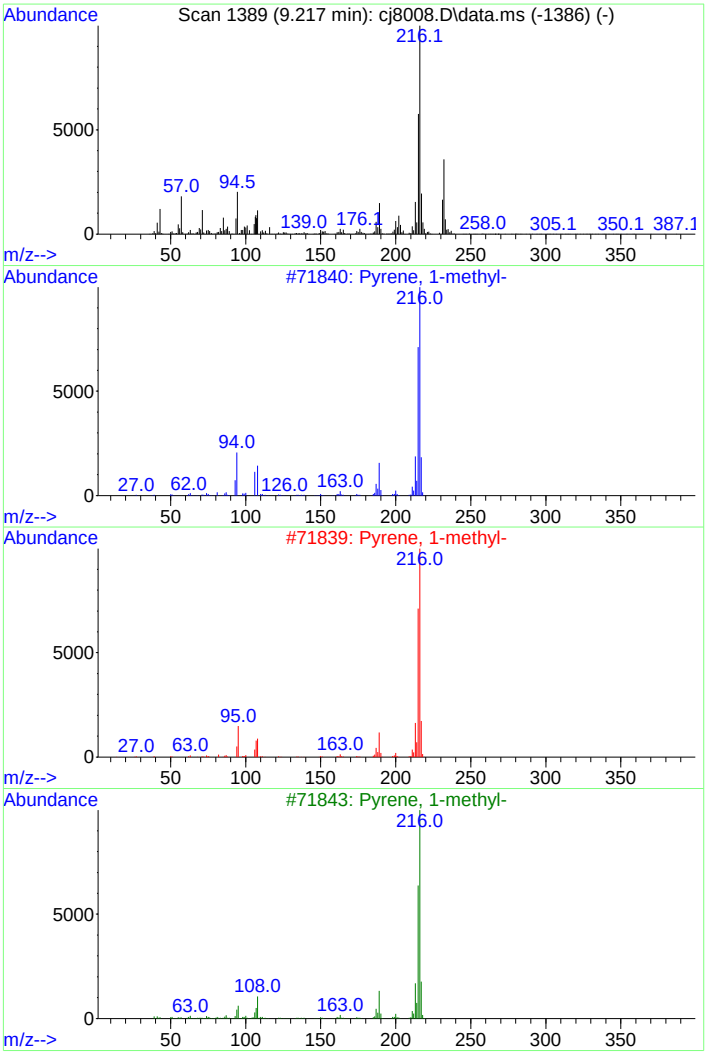
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

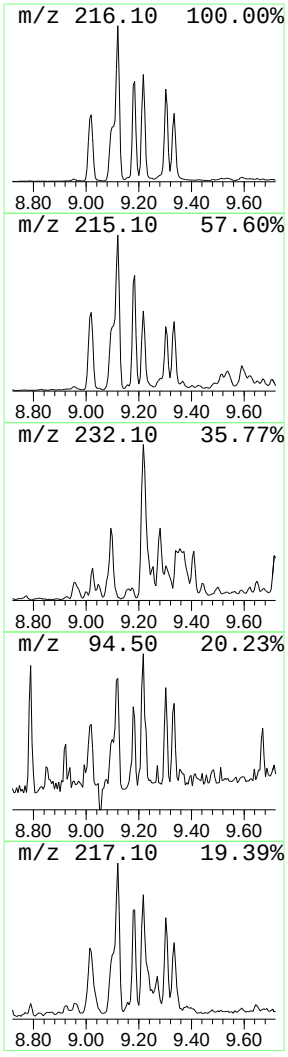
****

Peak Number 4 Pyrene methyl Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.217	5.34 ppm	870699	Chrysene-d12	9.965

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

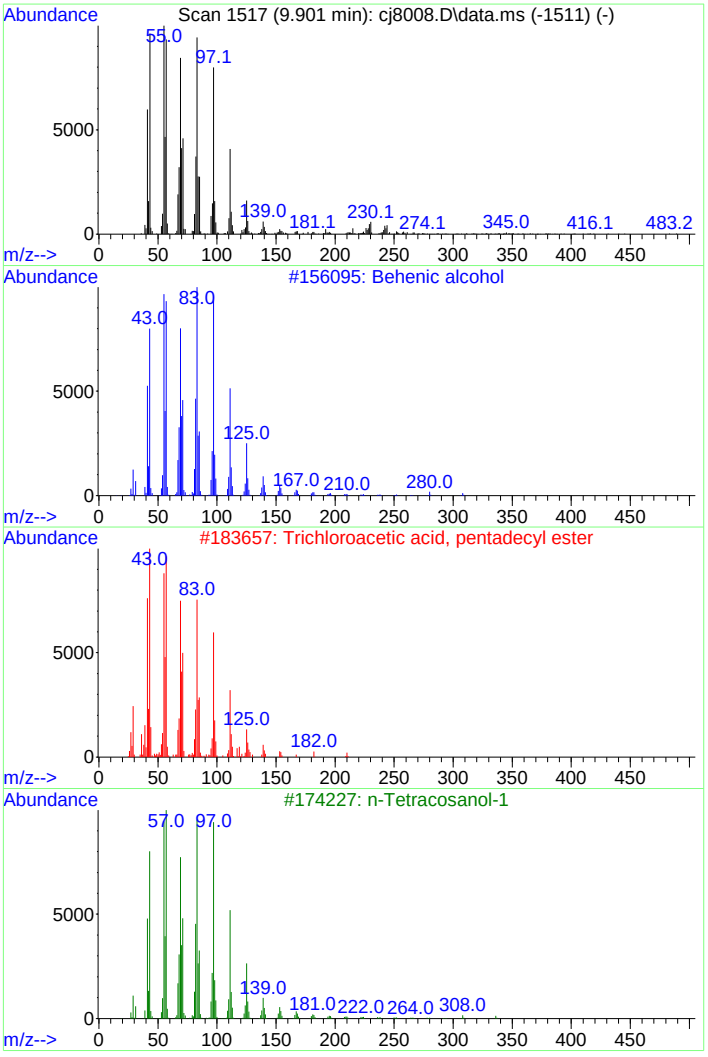
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

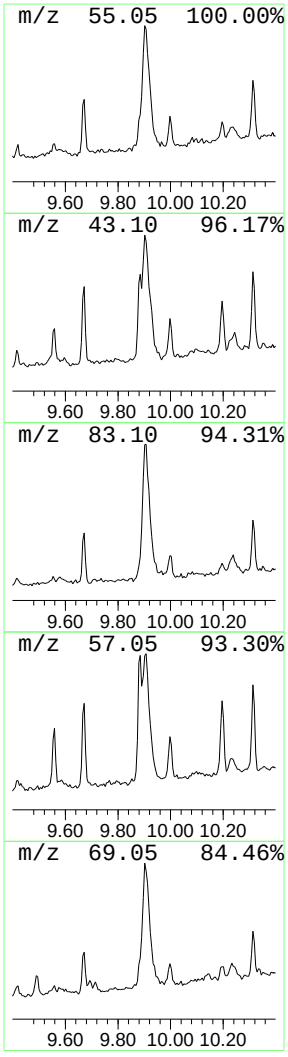
****

Peak Number 5 Unknown alcohol Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.901	5.44 ppm	887446	Chrysene-d12	9.965

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Behenic alcohol	326	C22H46O	000661-19-8	94
2	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	94
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
4	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	91
5	9-Eicosene, (E)-	280	C20H40	074685-29-3	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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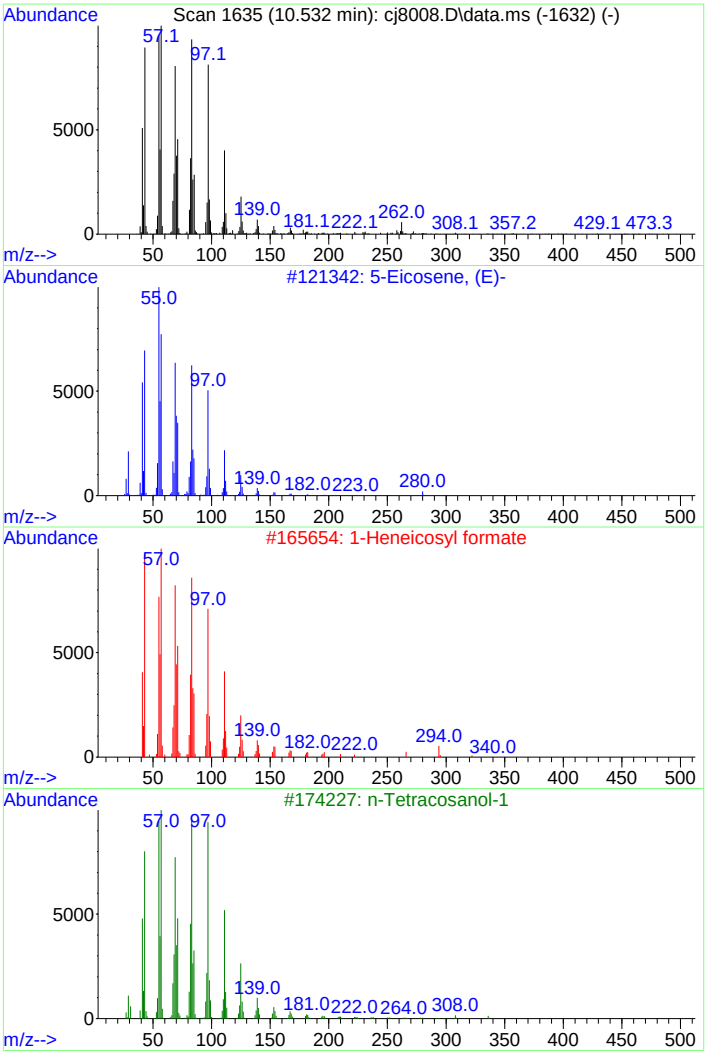
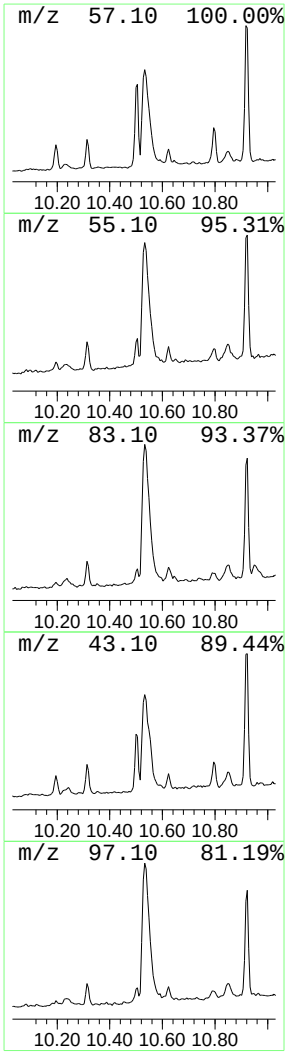
Peak Number 6 Unknown alcohol Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.532	9.85 ppm	1608250	Chrysene-d12a	9.965

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Eicosene, (E)-	280	C20H40	074685-30-6	99
2	1-Heneicosyl formate	340	C22H44O2	077899-03-7	95
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
4	Behenic alcohol	326	C22H46O	000661-19-8	94
5	1-Heneicosanol	312	C21H44O	015594-90-8	94





Library Search Compound Report

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Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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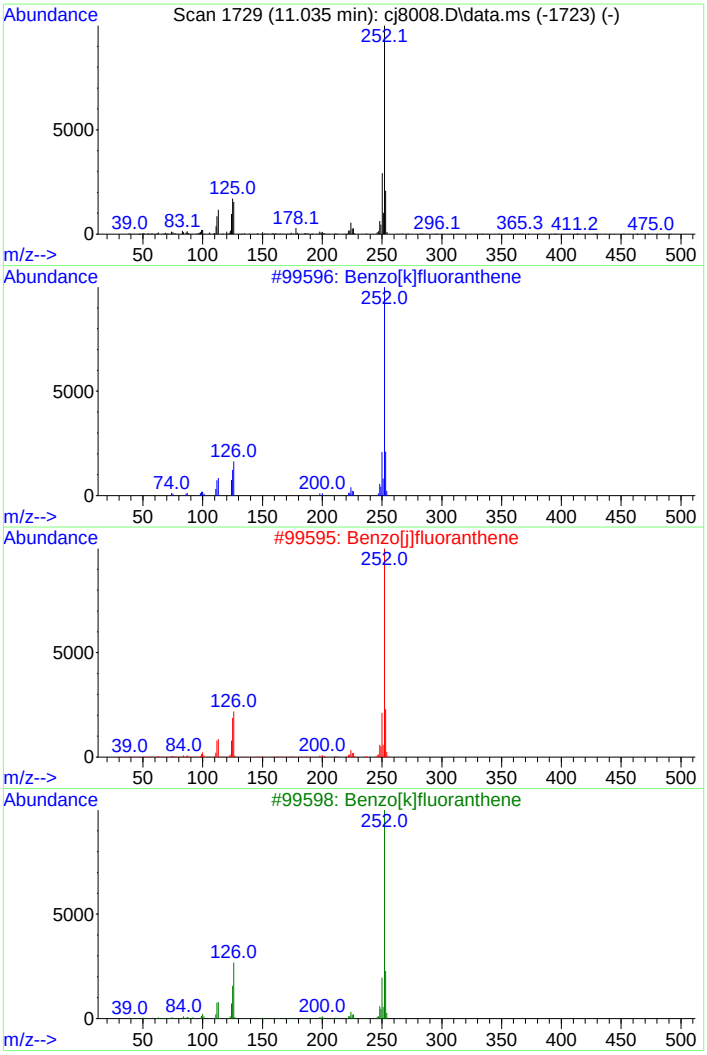
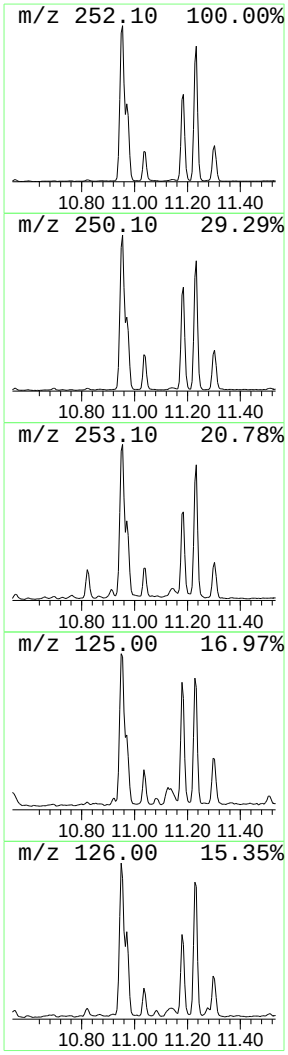
Peak Number 7 Unknown PAH substance Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.035	5.05 ppm	557441	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
2	Benzo[j]fluoranthene	252	C20H12	000205-82-3	94
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
4	Benzo[e]pyrene	252	C20H12	000192-97-2	93
5	Perylene	252	C20H12	000198-55-0	93





Library Search Compound Report

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Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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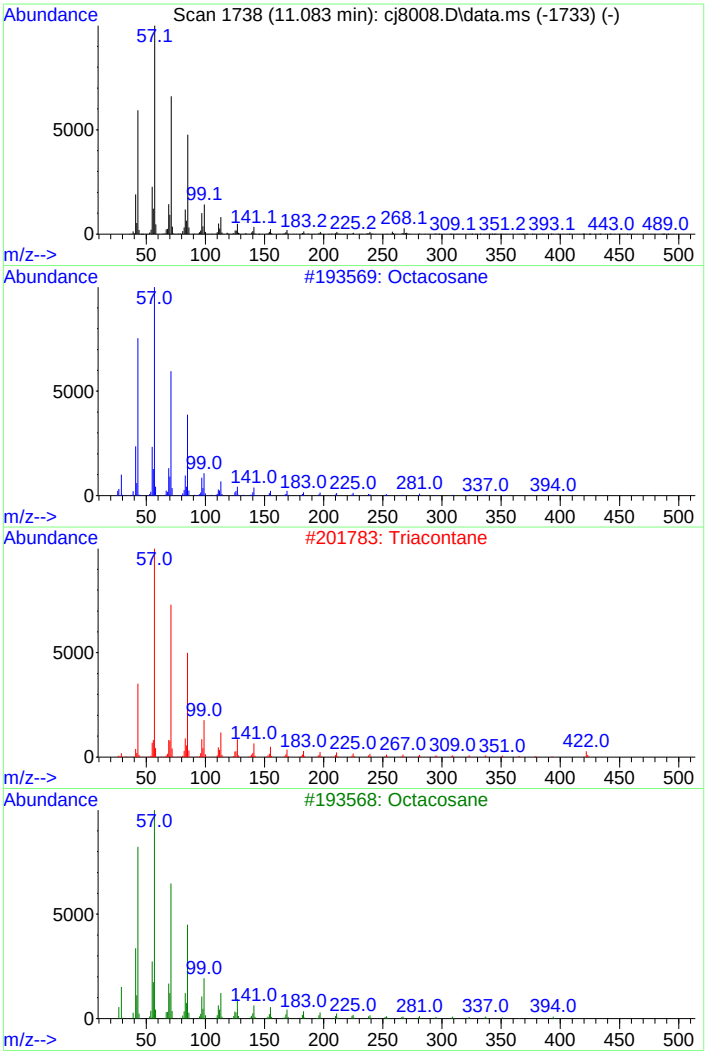
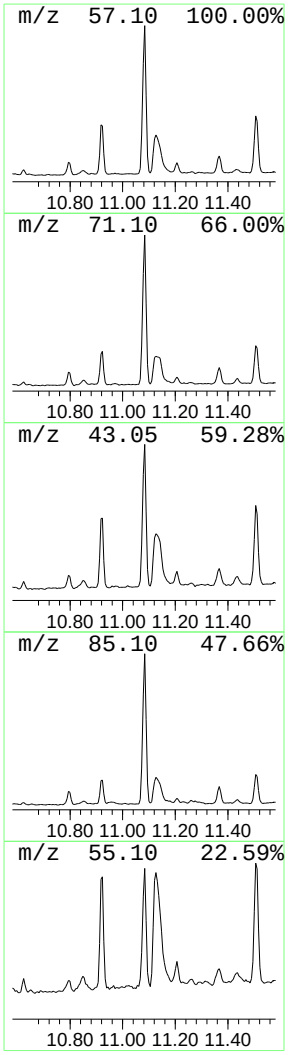
Peak Number 8 Alkane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.083	13.92 ppm	1537930	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	98
2	Triacontane	422	C30H62	000638-68-6	97
3	Octacosane	394	C28H58	000630-02-4	96
4	Hexacosane	366	C26H54	000630-01-3	96
5	Octadecane	254	C18H38	000593-45-3	94





Library Search Compound Report

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Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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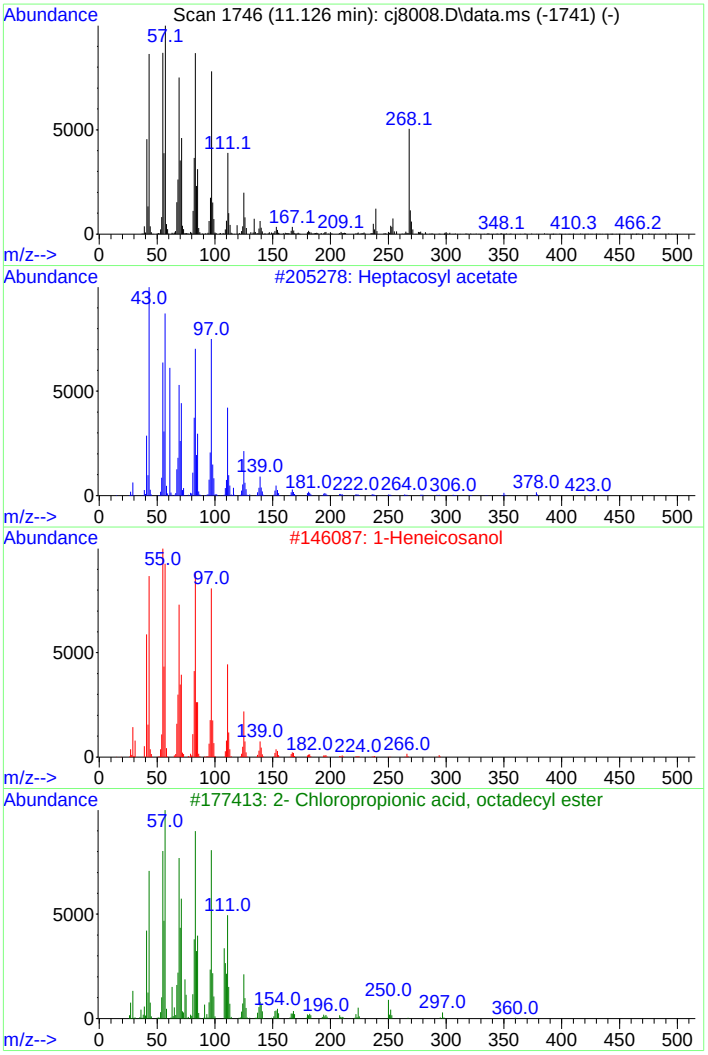
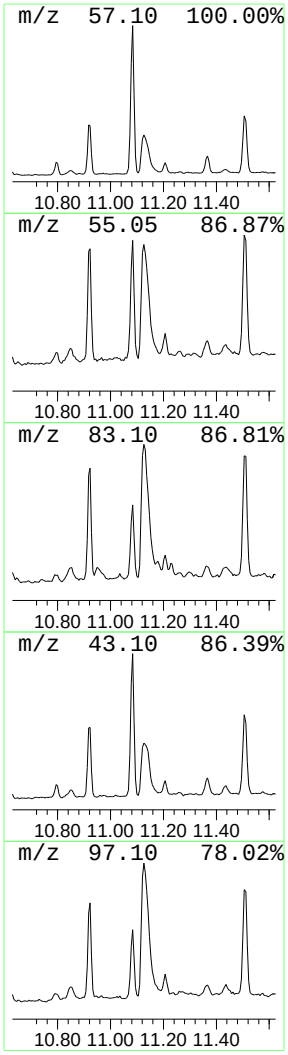
Peak Number 9 Unknown alcohol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.126	18.35 ppm	2027380	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosyl acetate	438	C29H58O2	1000351-78-2	96
2	1-Heneicosanol	312	C21H44O	015594-90-8	93
3	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	93
4	Behenic alcohol	326	C22H46O	000661-19-8	93
5	n-Tetracosanol-1	354	C24H50O	000506-51-4	93





Library Search Compound Report

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Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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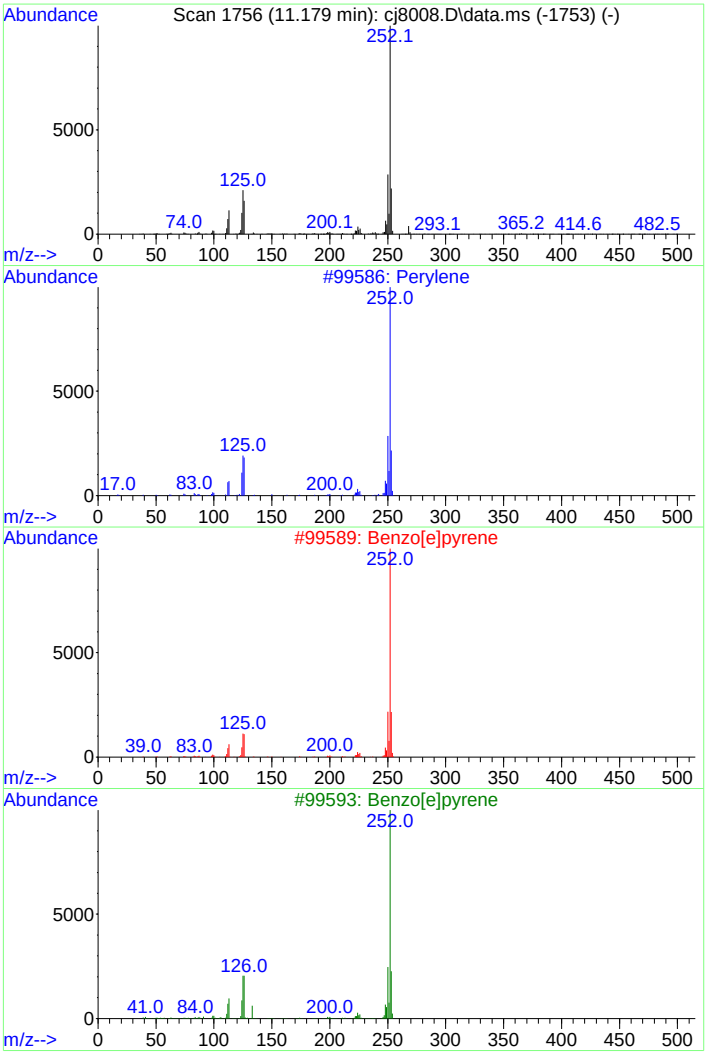
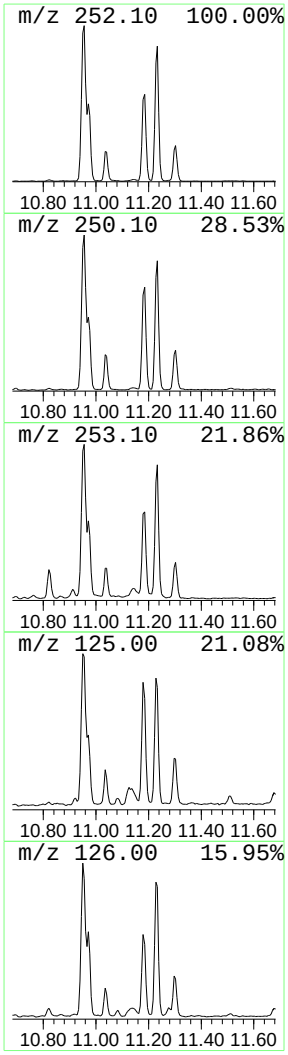
Peak Number 10 Unknown PAH substance Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.180	16.39 ppm	1810790	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	98
2	Benzo[e]pyrene	252	C20H12	000192-97-2	97
3	Benzo[e]pyrene	252	C20H12	000192-97-2	97
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
5	Benzo[a]pyrene	252	C20H12	000050-32-8	96





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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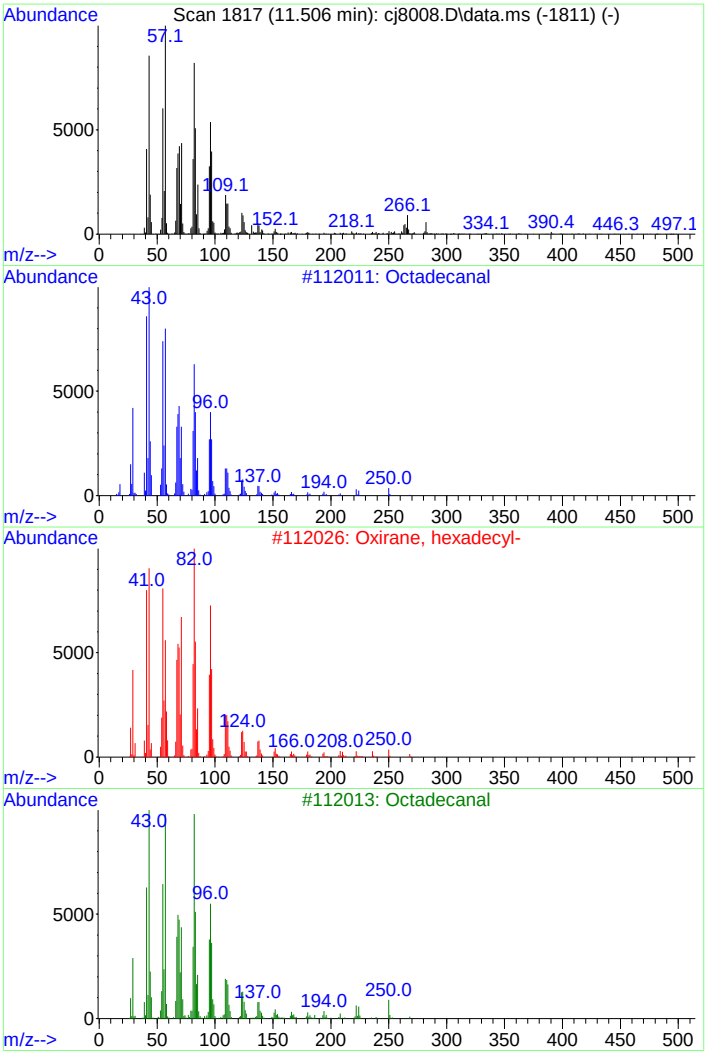
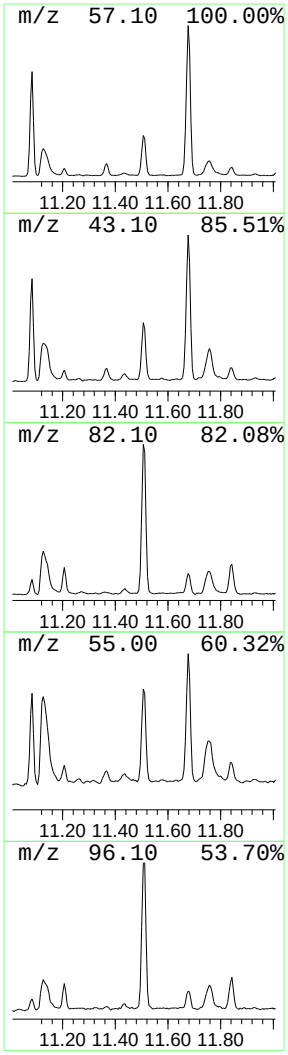
Peak Number 11 Unknown alcohol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.506	15.48 ppm	1710420	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanal	268	C18H36O	000638-66-4	90
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	90
3	Octadecanal	268	C18H36O	000638-66-4	83
4	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	81
5	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	74





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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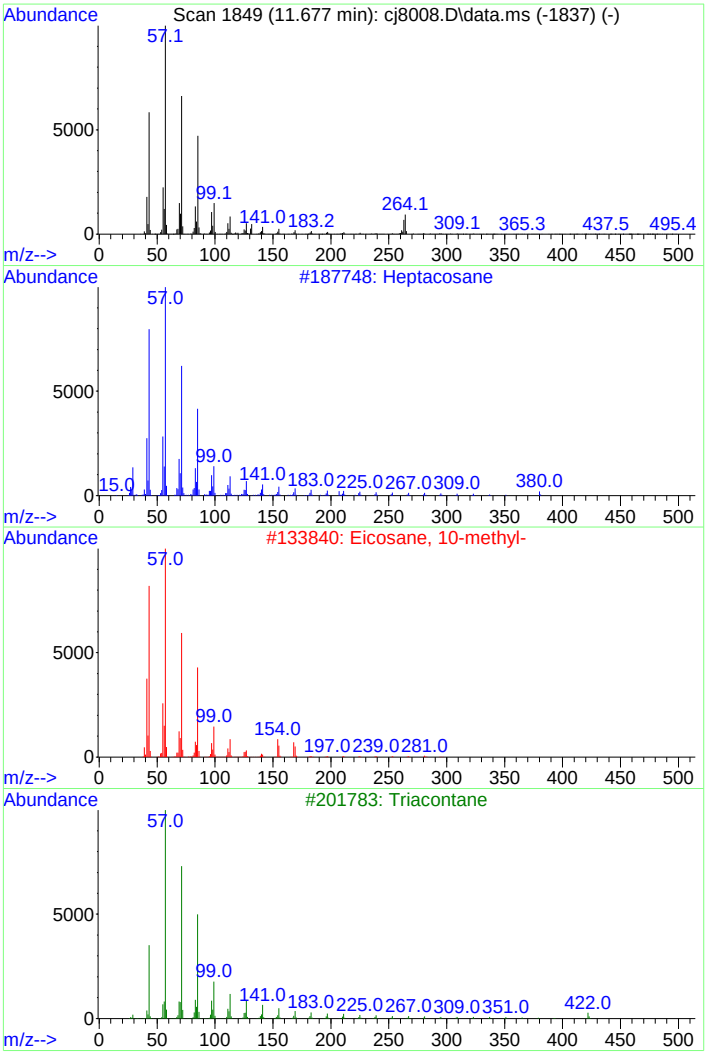
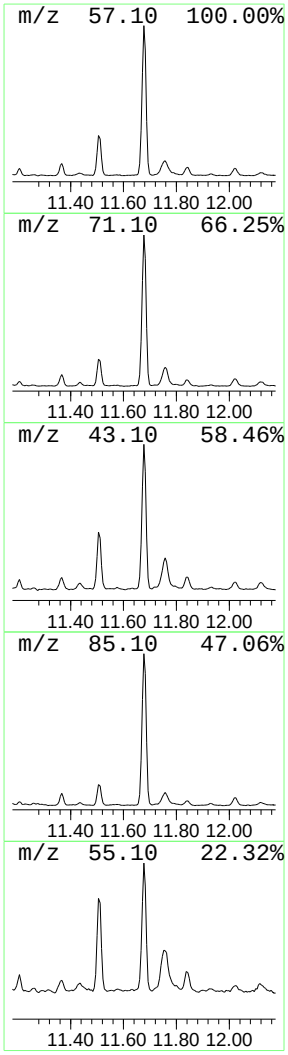
Peak Number 12 Alkane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.677	26.63 ppm	2941180	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	91
2	Eicosane, 10-methyl-	296	C21H44	054833-23-7	91
3	Triacontane	422	C30H62	000638-68-6	87
4	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	83
5	Octacosane	394	C28H58	000630-02-4	83





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
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Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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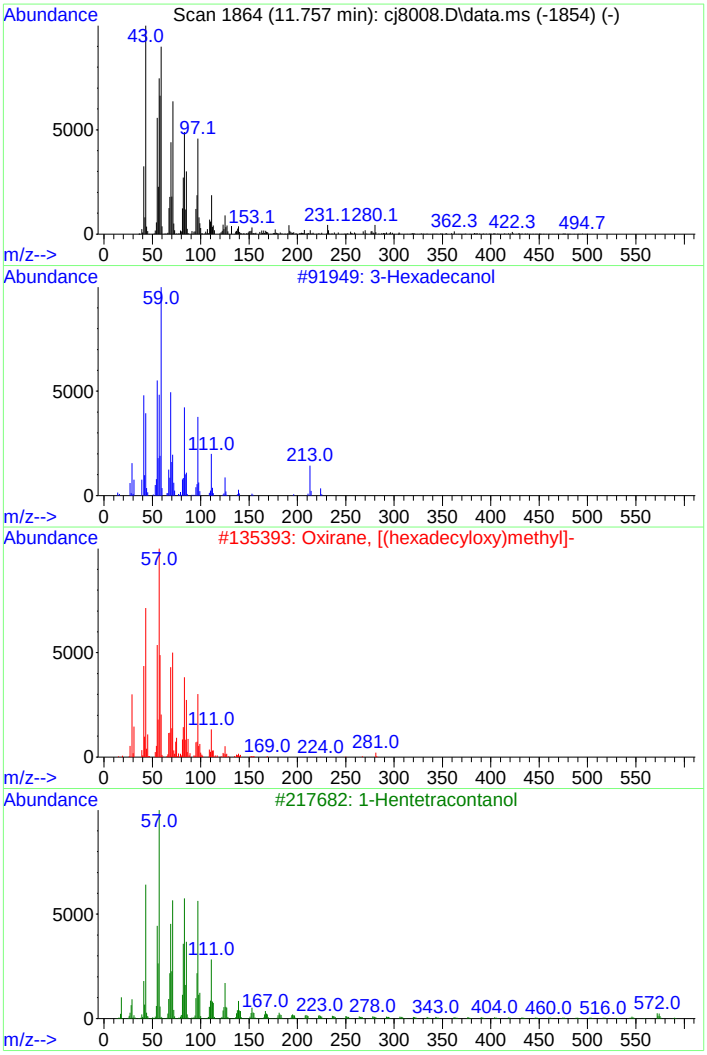
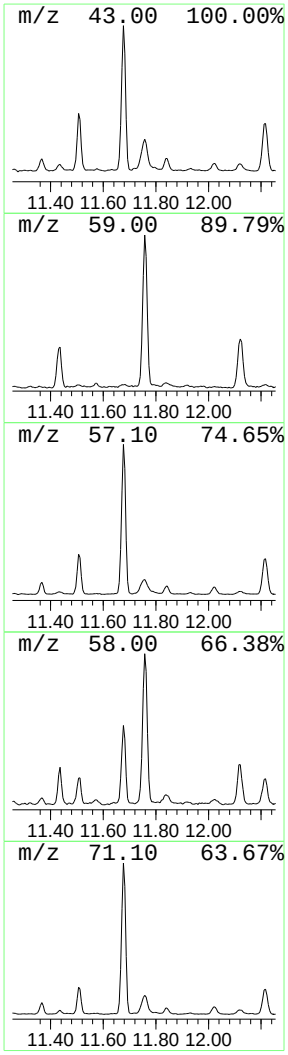
Peak Number 13 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.757	10.68 ppm	1179780	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexadecanol	242	C16H34O	000593-03-3	58
2	Oxirane, [(hexadecyloxy)methyl]-	298	C19H38O2	015965-99-8	52
3	1-Hentetracontanol	593	C41H84O	040710-42-7	41
4	Cyclohexadecane, 1,2-diethyl-	280	C20H40	1000155-85-3	40
5	17-Pentatriacontene	491	C35H70	006971-40-0	38





Library Search Compound Report

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Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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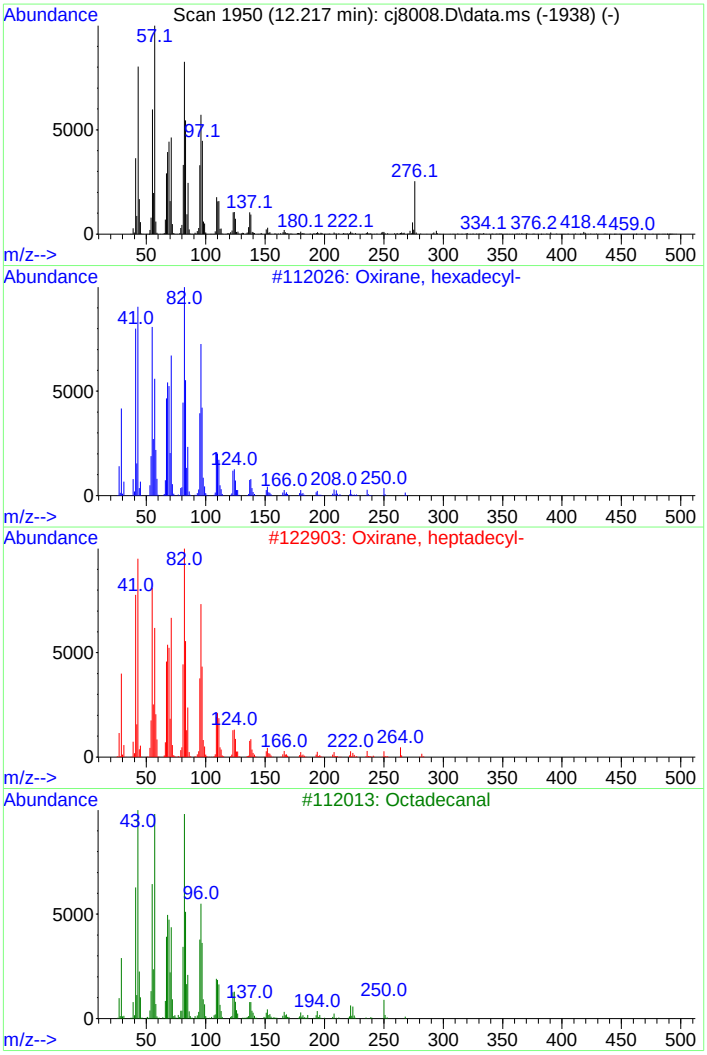
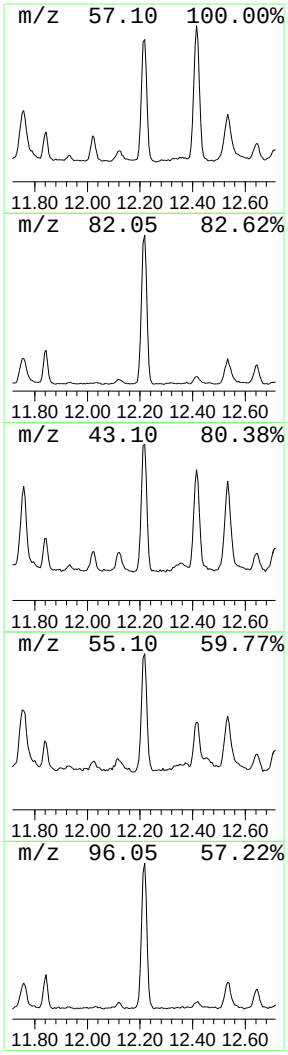
Peak Number 14 Unknown alcohol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.217	18.48 ppm	2041320	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	90
2	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	90
3	Octadecanal	268	C18H36O	000638-66-4	83
4	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	83
5	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	76





Library Search Compound Report

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Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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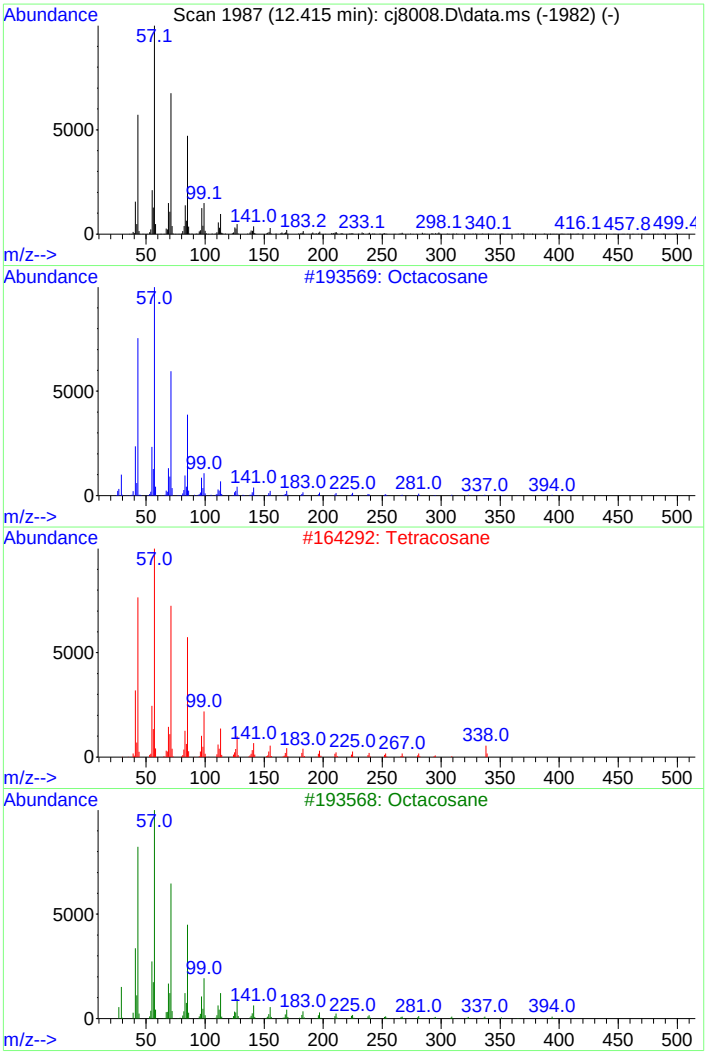
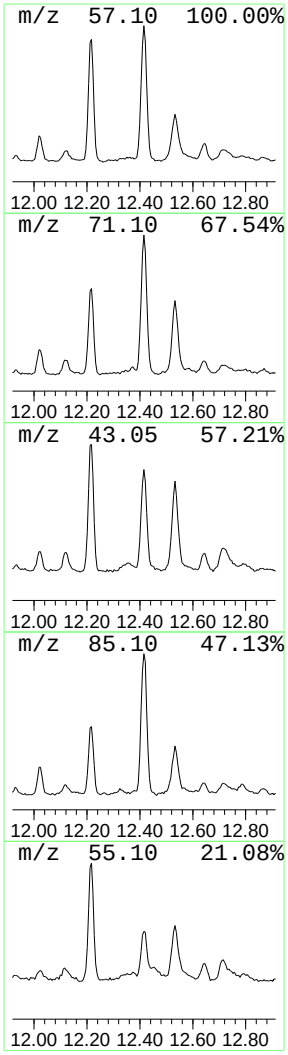
Peak Number 15 Alkane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.415	12.52 ppm	1383310	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	98
2	Tetracosane	338	C24H50	000646-31-1	97
3	Octacosane	394	C28H58	000630-02-4	93
4	Eicosane, 10-methyl-	296	C21H44	054833-23-7	93
5	2-Bromo dodecane	248	C12H25Br	013187-99-0	93





Library Search Compound Report

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Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
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Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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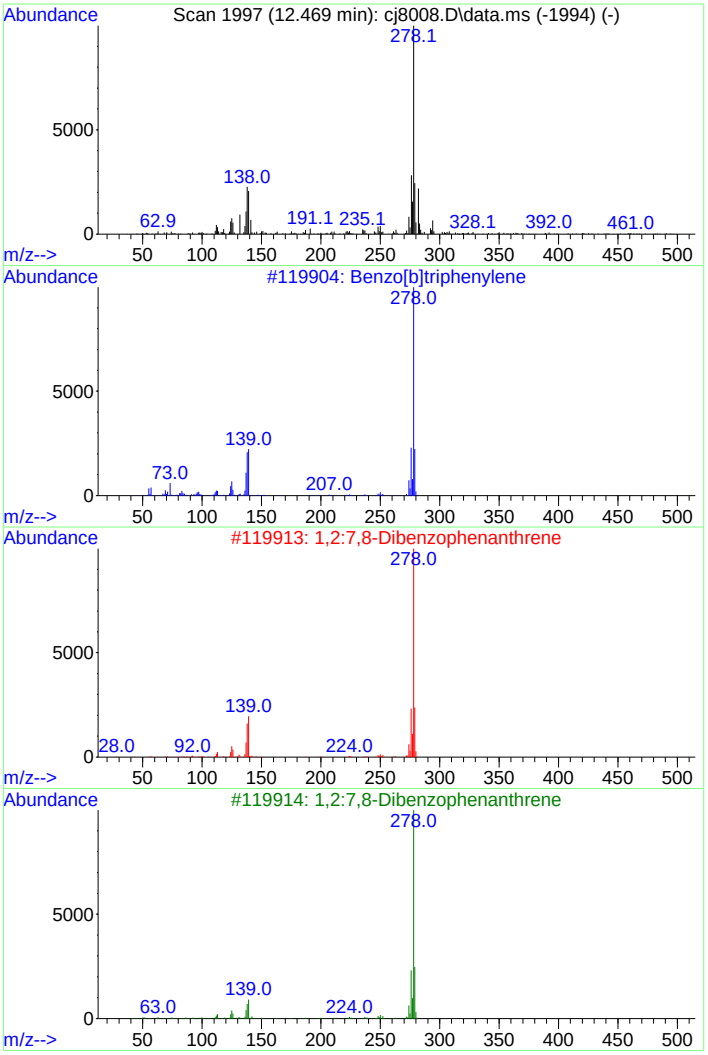
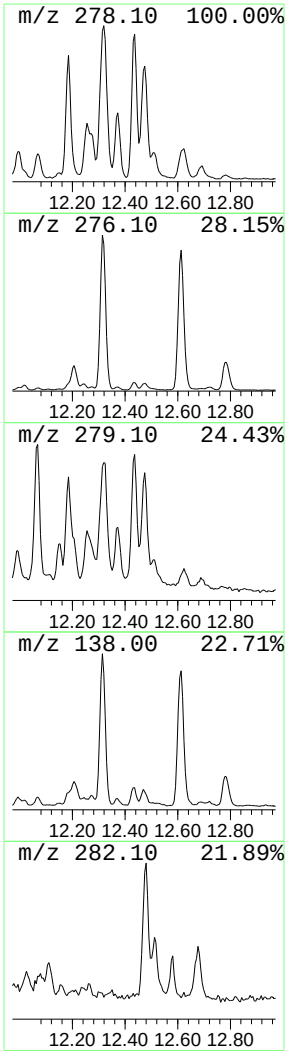
Peak Number 16 Unknown PAH substance Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.469	5.01 ppm	553326	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
2	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	95
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	93
4	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	93
5	Benzo[b]triphenylene	278	C22H14	000215-58-7	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

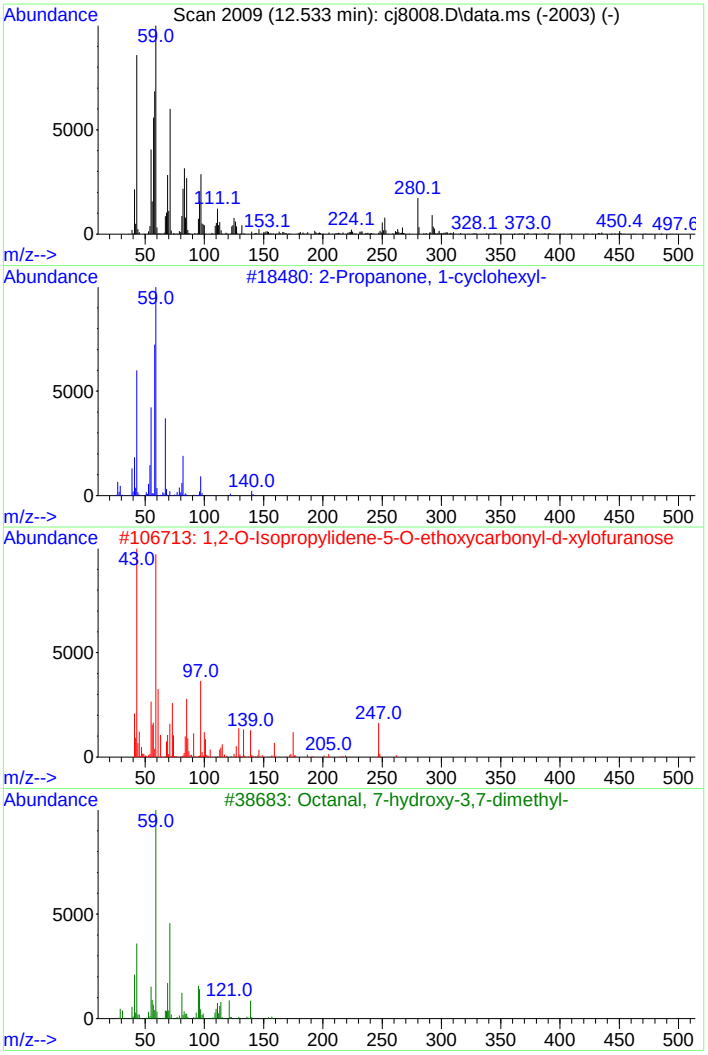
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

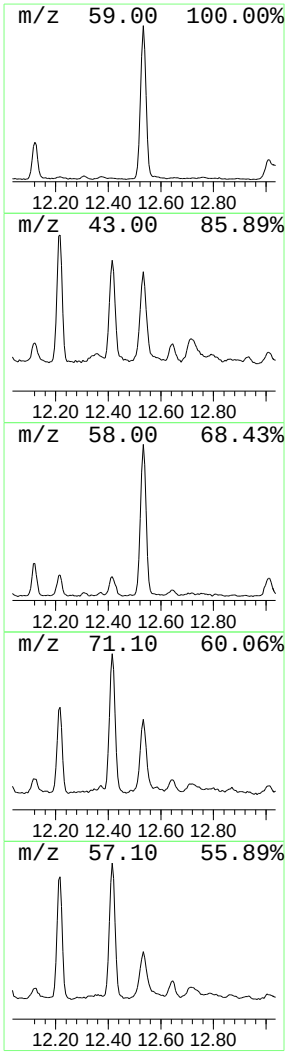
****

Peak Number 17 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.533	10.72 ppm	1183840	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanone, 1-cyclohexyl-	140	C9H16O	000103-78-6	43
2	1,2-O-Isopropylidene-5-O-ethoxyc...	262	C11H18O7	029836-12-2	43
3	Octanal, 7-hydroxy-3,7-dimethyl-	172	C10H20O2	000107-75-5	38
4	3-Heptadecanol	256	C17H36O	084534-30-5	38
5	3-Pentanol, 2,2-dimethyl-	116	C7H16O	003970-62-5	27





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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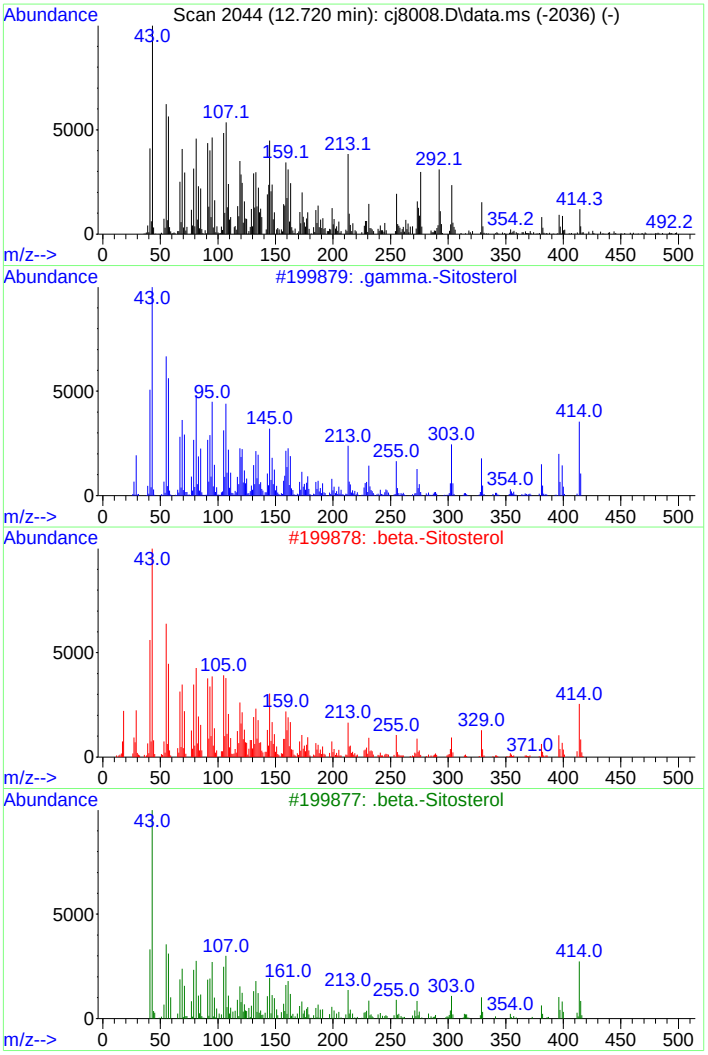
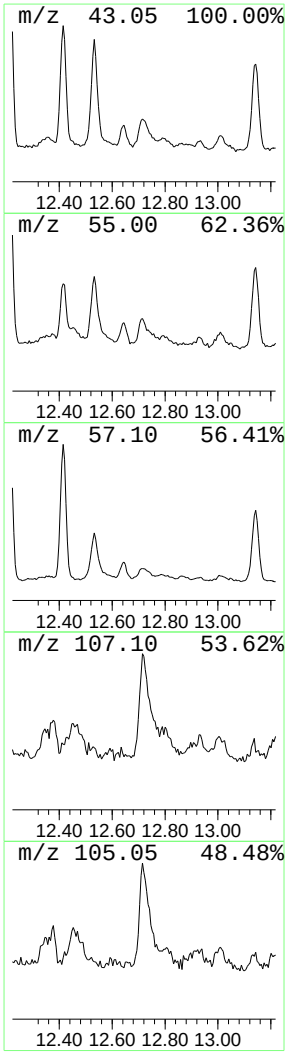
Peak Number 18 Sitosterol Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.720	8.69 ppm	959642	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	91
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	89
4	Campesterol	400	C28H48O	000474-62-4	46
5	Campesterol	400	C28H48O	000474-62-4	37





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

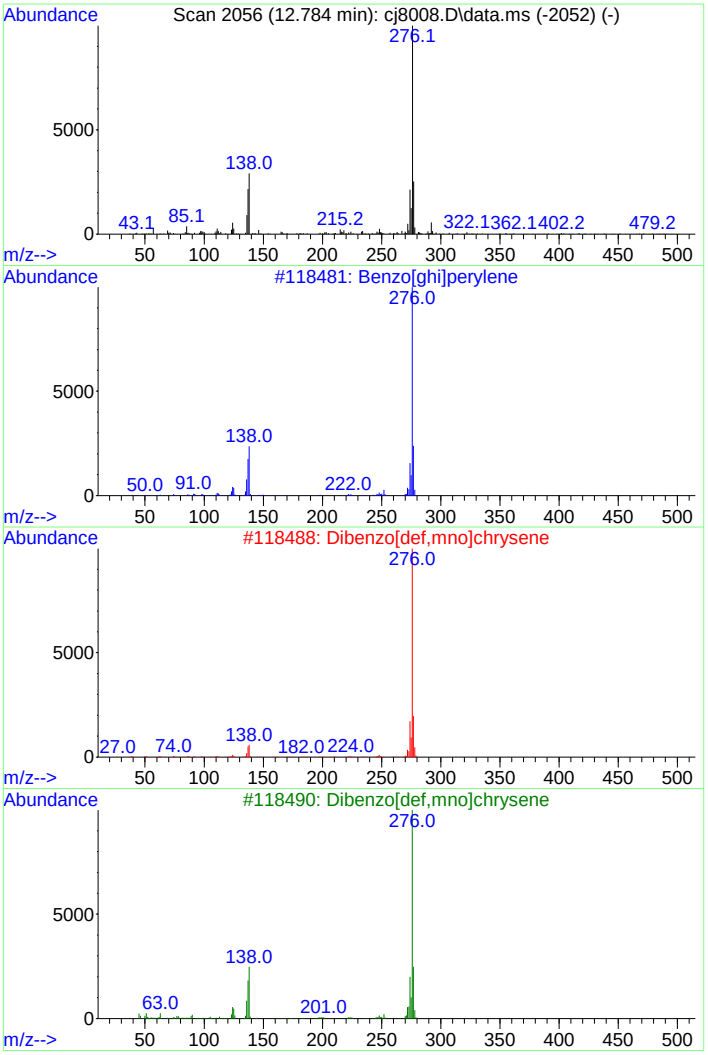
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

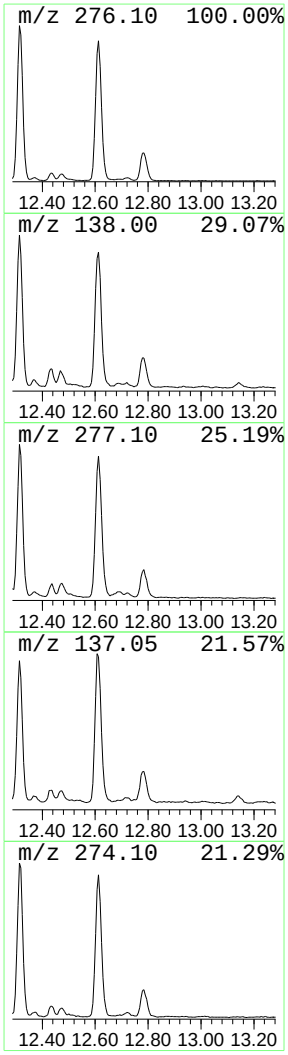
****

Peak Number 19 Unknown PAH substance Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.784	6.06 ppm	669388	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	94
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	91
3	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	91
4	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	91
5	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

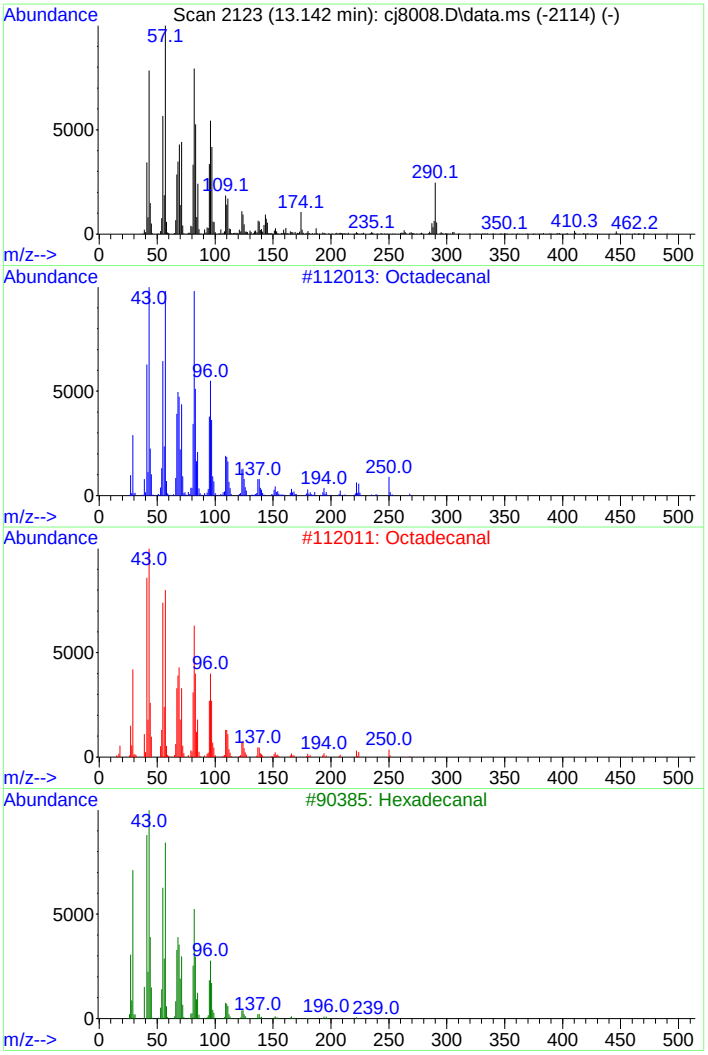
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

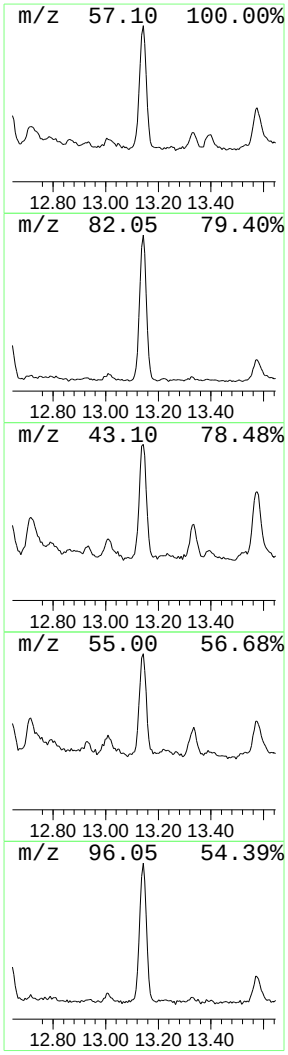
****

Peak Number 20 Unknown alcohol Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.143	12.46 ppm	1376310	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanal	268	C18H36O	000638-66-4	94
2	Octadecanal	268	C18H36O	000638-66-4	93
3	Hexadecanal	240	C16H32O	000629-80-1	80
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	74
5	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	74





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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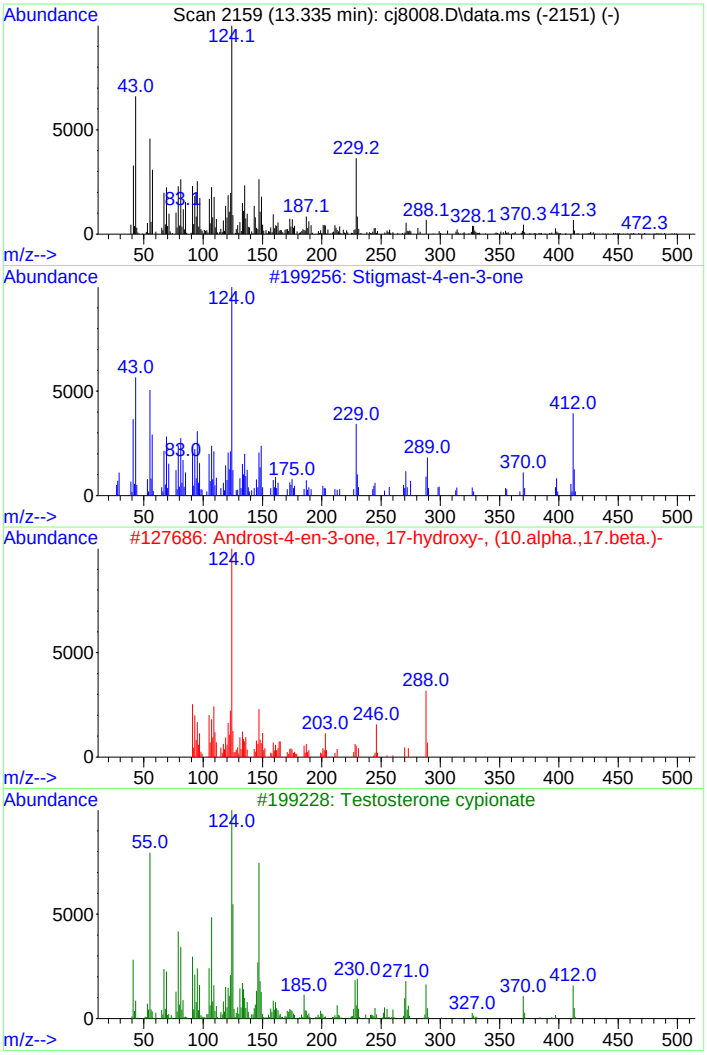
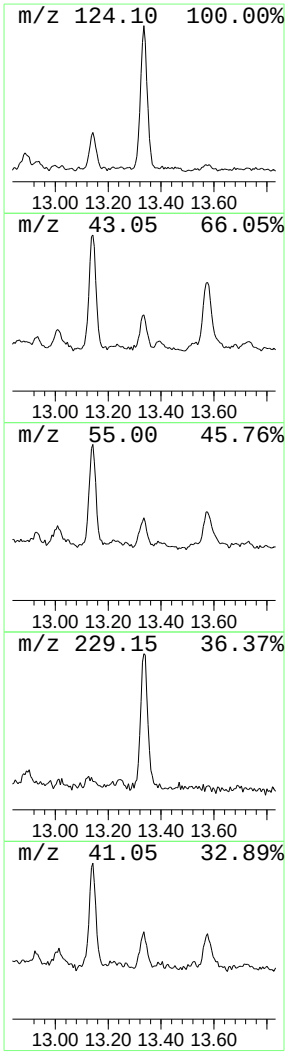
Peak Number 21 Unknown Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.335	4.81 ppm	531127	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	93
2	Androst-4-en-3-one, 17-hydroxy-,...	288	C19H28O2	000604-39-7	70
3	Testosterone cypionate	412	C27H40O3	000058-20-8	46
4	1,4-Benzenediol, 2-methyl-	124	C7H8O2	000095-71-6	43
5	1,3-Benzenediol, 5-pentyl-	180	C11H16O2	000500-66-3	43





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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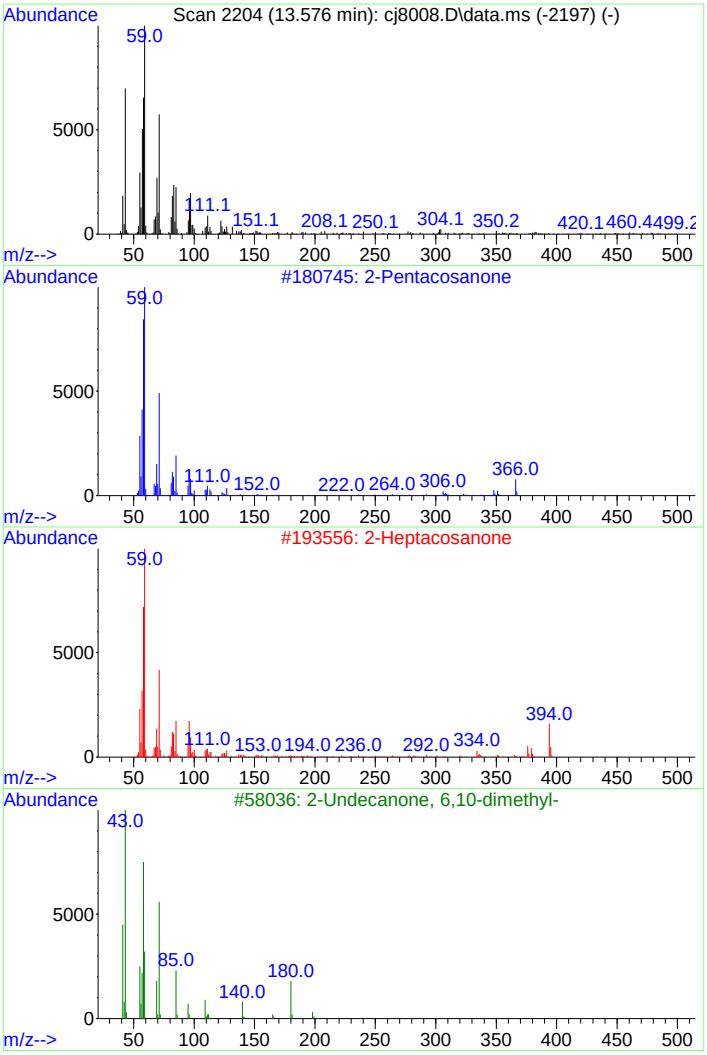
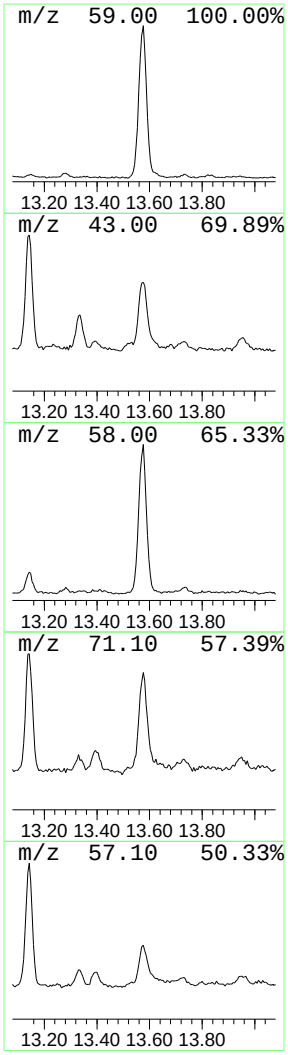
Peak Number 22 Unknown alcohol Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.576	6.78 ppm	748830	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentacosanone	366	C25H50O	075207-54-4	80
2	2-Heptacosanone	394	C27H54O	007796-19-2	43
3	2-Undecanone, 6,10-dimethyl-	198	C13H26O	001604-34-8	38
4	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	38
5	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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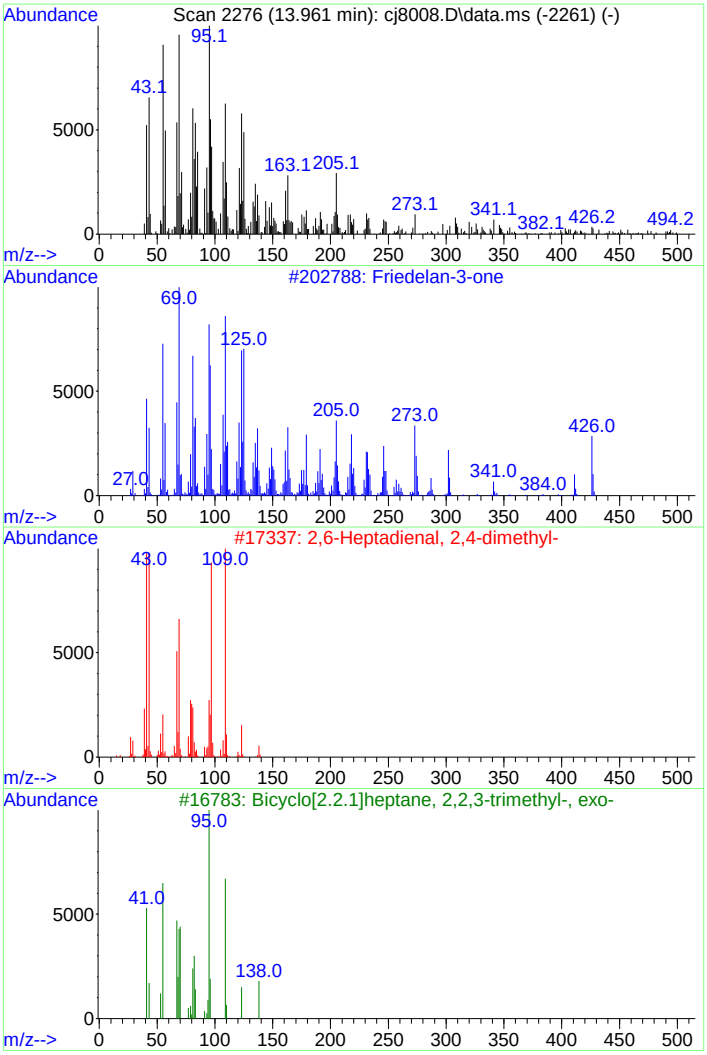
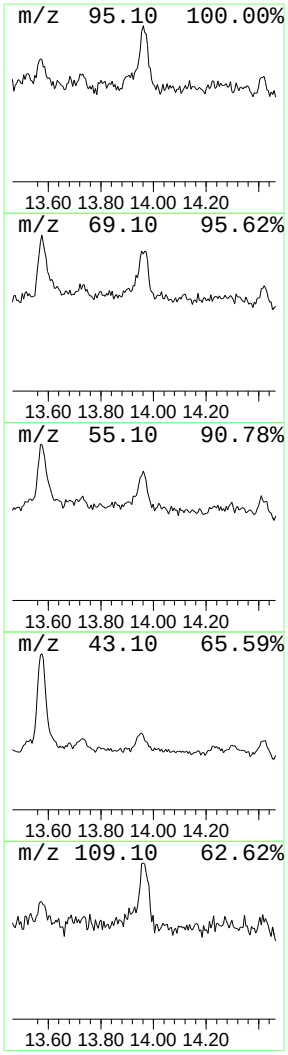
Peak Number 23 Unknown Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.961	4.87 ppm	537400	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Friedelan-3-one	426	C30H50O	000559-74-0	93
2	2,6-Heptadienal, 2,4-dimethyl-	138	C9H14O	085136-08-9	38
3	Bicyclo[2.2.1]heptane, 2,2,3-tri...	138	C10H18	020536-41-8	30
4	2,6,9,12,16-Pentamethylheptadeca...	346	C23H38O2	1000195-87-5	30
5	1-Formyl-2,2-dimethyl-3-trans-(3...	220	C15H24O	1000144-09-7	30





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

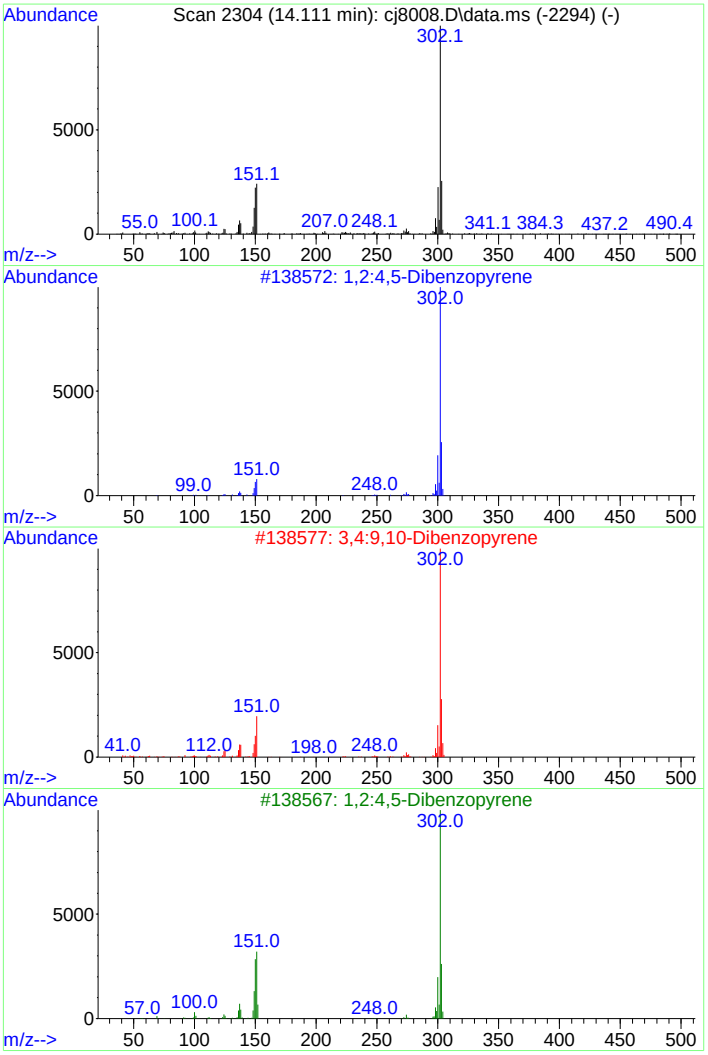
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

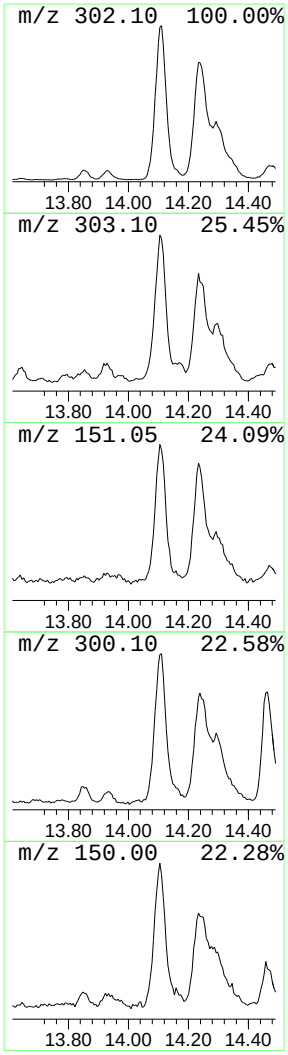
****

Peak Number 24 Dibenzopyrene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.111	6.18 ppm	682927	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	98
2	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	96
3	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	93
4	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	92
5	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

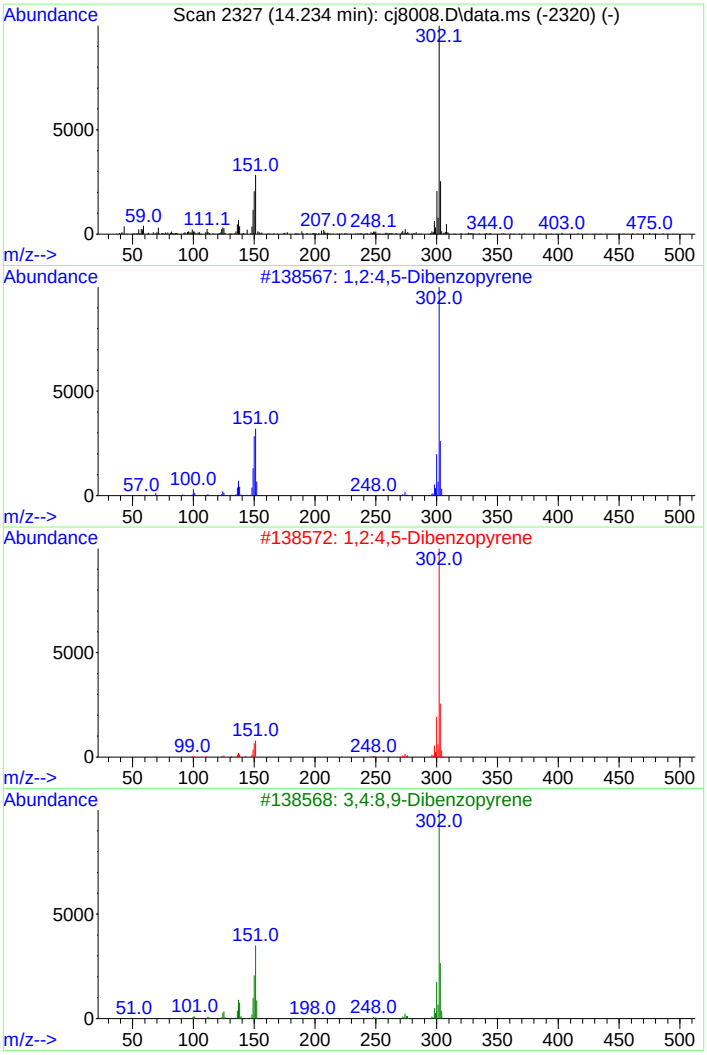
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

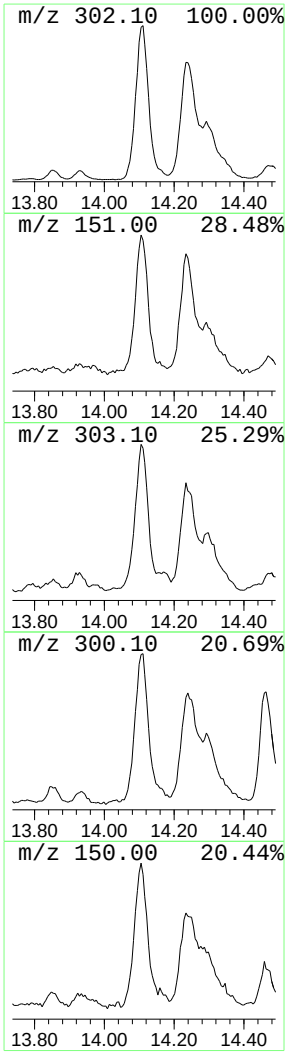
****

Peak Number 25 Dibenzopyrene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.234	5.71 ppm	630175	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	94
2	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	93
3	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	91
4	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	89
5	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	89





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8008.D
Acq On : 01 Jul 2024 07:19 pm
Operator : karimam
Sample : jd91204-5
Misc : op55759,ecj348,31.4,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.552	13.3	ppm	807631	2	4.365	2428140	40.0
4H-Cyclopenta[d...	8.029	9.1	ppm	942111	8	7.489	4140110	40.0
Pyrene methyl	9.120	6.3	ppm	1025240	9	9.965	6527770	40.0
Pyrene methyl	9.217	5.3	ppm	870699	9	9.965	6527770	40.0
Unknown alcohol	9.901	5.4	ppm	887446	9	9.965	6527770	40.0
Unknown alcohol	10.532	9.8	ppm	1608250	10	9.965	6527770	40.0
Unknown PAH sub...	11.035	5.0	ppm	557441	11	11.281	4418310	40.0
Alkane	11.083	13.9	ppm	1537930	11	11.281	4418310	40.0
Unknown alcohol	11.126	18.4	ppm	2027380	11	11.281	4418310	40.0
Unknown PAH sub...	11.180	16.4	ppm	1810790	11	11.281	4418310	40.0
Unknown alcohol	11.506	15.5	ppm	1710420	11	11.281	4418310	40.0
Alkane	11.677	26.6	ppm	2941180	11	11.281	4418310	40.0
Unknown	11.757	10.7	ppm	1179780	11	11.281	4418310	40.0
Unknown alcohol	12.217	18.5	ppm	2041320	11	11.281	4418310	40.0
Alkane	12.415	12.5	ppm	1383310	11	11.281	4418310	40.0
Unknown PAH sub...	12.469	5.0	ppm	553326	11	11.281	4418310	40.0
Unknown	12.533	10.7	ppm	1183840	11	11.281	4418310	40.0
Sitosterol	12.720	8.7	ppm	959642	11	11.281	4418310	40.0
Unknown PAH sub...	12.784	6.1	ppm	669388	11	11.281	4418310	40.0
Unknown alcohol	13.143	12.5	ppm	1376310	11	11.281	4418310	40.0
Unknown	13.335	4.8	ppm	531127	11	11.281	4418310	40.0
Unknown alcohol	13.576	6.8	ppm	748830	11	11.281	4418310	40.0
Unknown	13.961	4.9	ppm	537400	11	11.281	4418310	40.0
Dibenzopyrene	14.111	6.2	ppm	682927	11	11.281	4418310	40.0
Dibenzopyrene	14.234	5.7	ppm	630175	11	11.281	4418310	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 07/02/24 05:10

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8014.D
Acq On : 01 Jul 2024 09:11 pm
Operator : karimam
Sample : jd91204-6 Inst : GCMSCJ
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 02 04:28:56 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.370	152	376057	40.00	ppm	0.01
24) Naphthalene-d8	5.167	136	1384703	40.00	ppm	0.00
46) Acenaphthene-d10	6.312	164	788235	40.00	ppm	0.00
69) Phenanthrene-d10	7.494	188	1450750	40.00	ppm	0.00
84) Chrysene-d12	9.971	240	1122024	40.00	ppm	0.01
93) Perylene-d12	11.286	264	1150875	40.00	ppm	0.02
103) 1,4-Dichlorobenzene-d4a	4.370	152	376057	40.00	ppm	0.01
105) Phenanthrene-d10a	7.494	188	1450750	40.00	ppm	0.00
107) Naphthalene-d8a	5.167	136	1384703	40.00	ppm	0.00
109) Phenanthrene-d10b	7.494	188	1450750	40.00	ppm	0.00
112) Chrysene-d12a	9.971	240	1122024	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.579	112	236714	21.90	ppm	0.05
Spiked Amount 50.000			Recovery = 43.80%			
8) Phenol-d5	4.183	99	349827	25.09	ppm	0.03
Spiked Amount 50.000			Recovery = 50.18%			
25) Nitrobenzene-d5	4.723	82	358623	25.29	ppm	0.00
Spiked Amount 50.000			Recovery = 50.58%			
51) 2-Fluorobiphenyl	5.841	172	720728	29.06	ppm	0.00
Spiked Amount 50.000			Recovery = 58.12%			
74) 2,4,6-Tribromophenol	6.916	330	81613	25.66	ppm	0.00
Spiked Amount 50.000			Recovery = 51.32%			
87) Terphenyl-d14	8.960	244	748628	27.00	ppm	0.01
Spiked Amount 50.000			Recovery = 54.00%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
18) Acetophenone	4.633	105	1880	0.1088	ppm	77
21) 3&4-Methylphenol	4.659	108	2833	0.2640	ppm	80
38) Naphthalene	5.178	128	19531	0.5888	ppm	98
44) 2-Methylnaphthalene	5.611	141	5694	0.2895	ppm	94
53) Biphenyl	5.911	154	4375	0.1615	ppm	94
56) Acenaphthylene	6.216	152	24312	0.7952	ppm	96
59) Acenaphthene	6.333	153	8583	0.3948	ppm	94
62) Dibenzofuran	6.462	168	7465	0.2474	ppm	94
66) Fluorene	6.724	166	9083m	0.3811	ppm	
78) Phenanthrene	7.510	178	135723	3.8711	ppm	99
79) Anthracene	7.558	178	53621	1.5274	ppm	97
80) Carbazole	7.708	167	31931	0.9761	ppm	99
82) Fluoranthene	8.591	202	253774	6.6858	ppm	100
86) Pyrene	8.799	202	218559	5.7277	ppm	99
88) Butylbenzylphthalate	9.436	149	8611	0.5058	ppm	99
89) Benzo[a]anthracene	9.960	228	109940	3.0475	ppm	90
91) Chrysene	9.992	228	107402	3.2268	ppm	97
92) bis(2-Ethylhexyl)phtha...	10.008	149	11372m	0.4510	ppm	
95) Benzo[b]fluoranthene	10.955	252	180371m	5.1881	ppm	
96) Benzo[k]fluoranthene	10.976	252	48386m	1.5467	ppm	
97) Benzo[a]pyrene	11.238	252	105323	3.6595	ppm	96
98) Indeno[1,2,3-cd]pyrene	12.329	276	67811	1.9490	ppm	83
100) Dibenz[a,h]anthracene	12.329	278	22444	0.8073	ppm	97
102) Benzo[g,h,i]perylene	12.629	276	66555	2.4615	ppm	97

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8014.D
Acq On : 01 Jul 2024 09:11 pm
Operator : karimam
Sample : jd91204-6 Inst : GCMSCJ
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 02 04:28:56 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

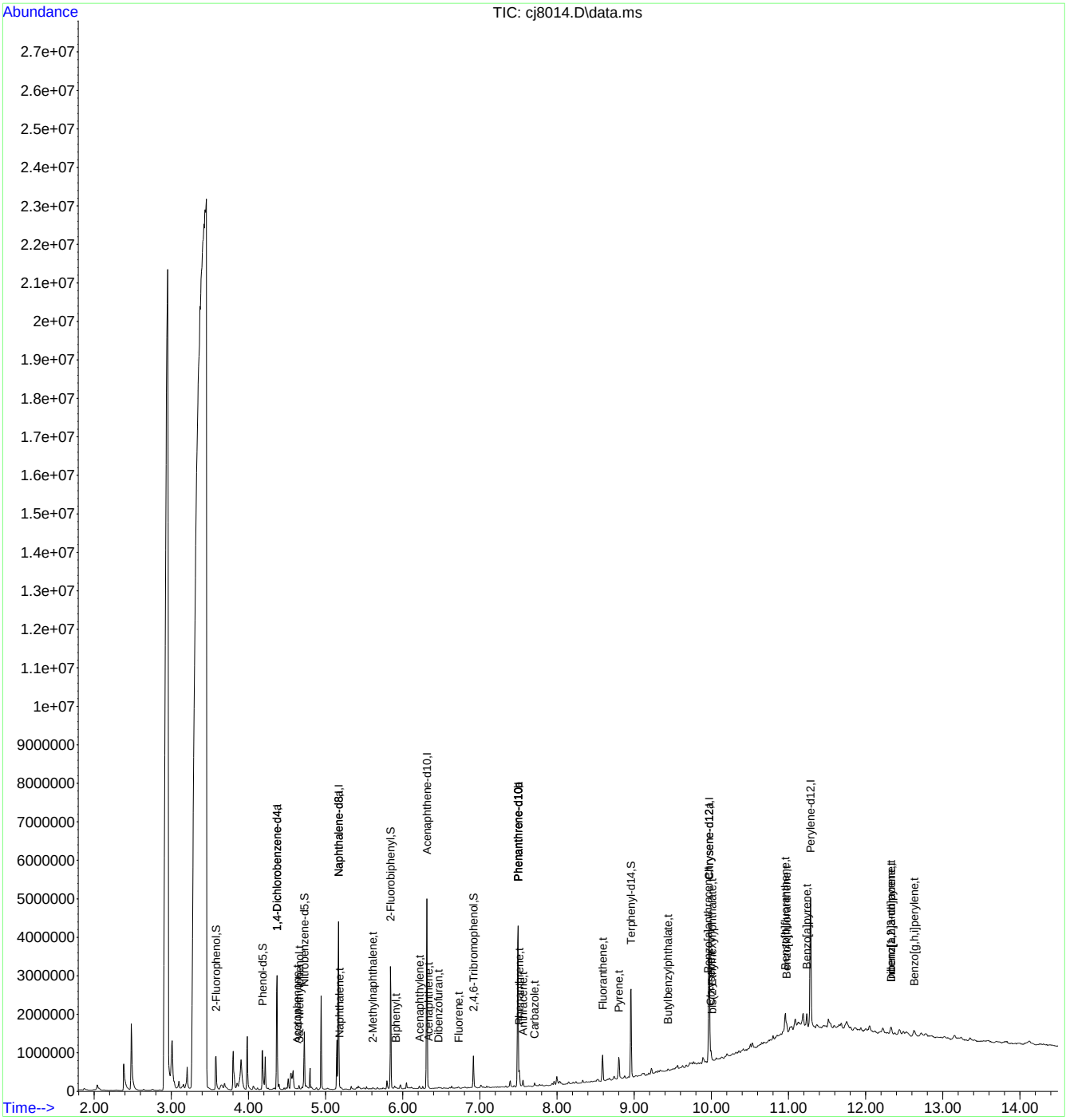
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

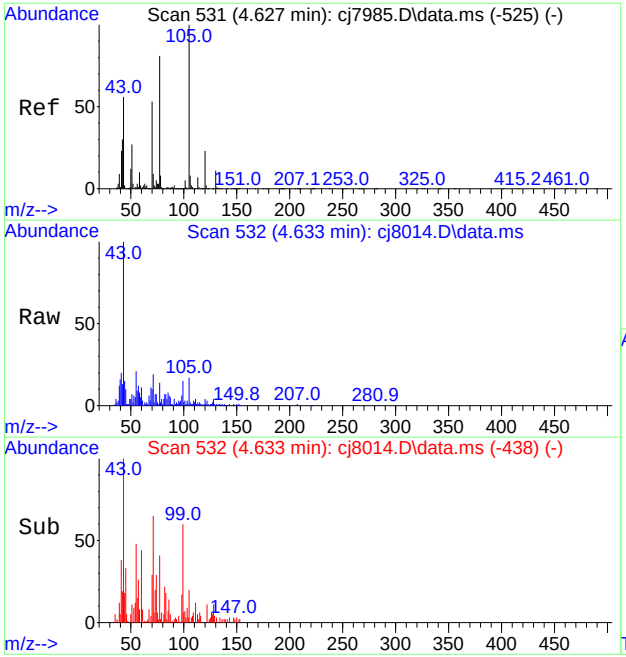
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8014.D
Acq On : 01 Jul 2024 09:11 pm
Operator : karimam
Sample : jd91204-6 Inst : GCMSCJ
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 02 04:28:56 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

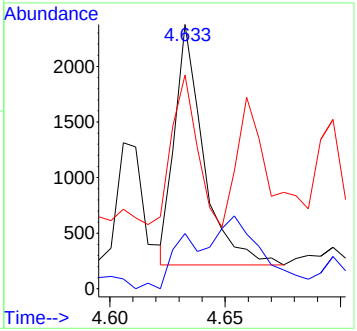


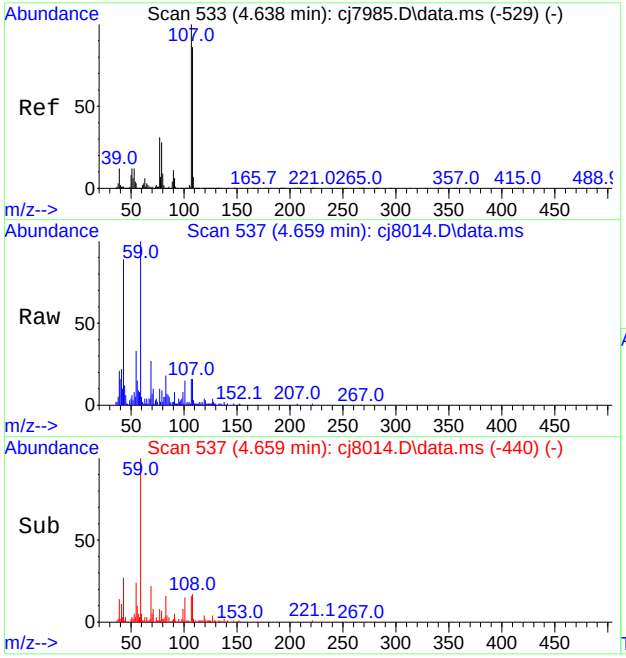


#18
Acetophenone
Concen: 0.1088 ppm
RT: 4.633 min Scan# 532
Delta R.T. 0.005 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:105 Resp: 1880

Ion	Ratio	Lower	Upper
105	100		
120	19.9	0.0	53.1
77	56.2	50.8	110.8

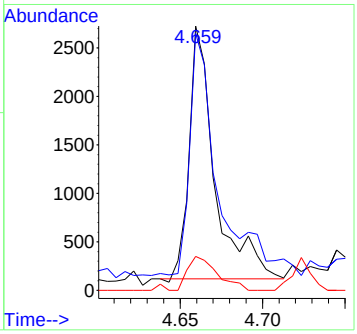


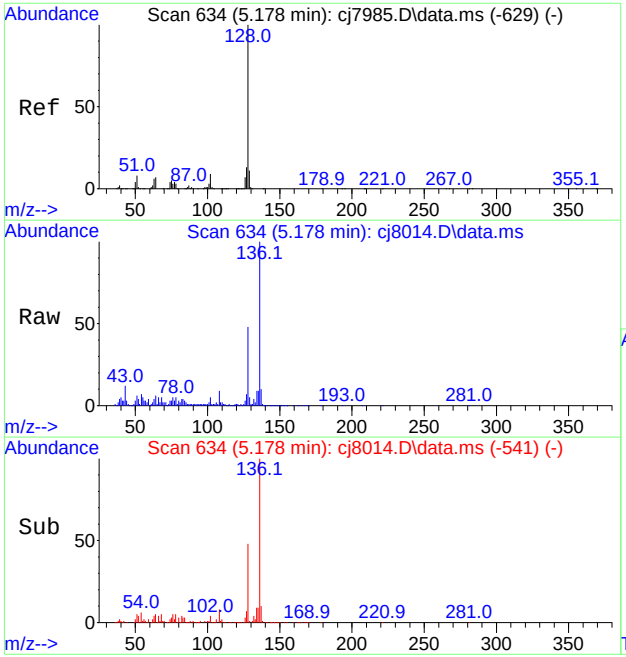


#21
3&4-Methylphenol
Concen: 0.2640 ppm
RT: 4.659 min Scan# 537
Delta R.T. 0.021 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:108 Resp: 2833

Ion	Ratio	Lower	Upper
108	100		
107	92.2	85.6	145.6
90	10.7	0.0	42.2

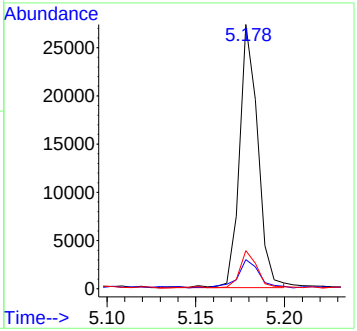


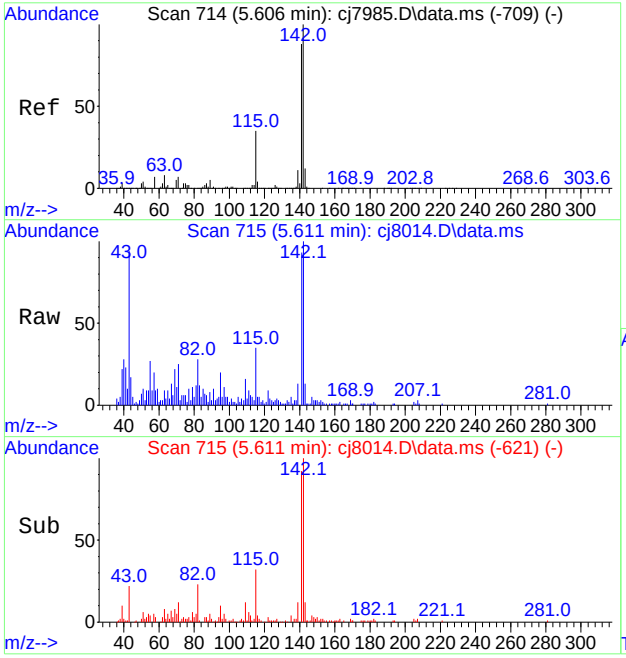


#38
Naphthalene
Concen: 0.5888 ppm
RT: 5.178 min Scan# 634
Delta R.T. -0.000 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:128 Resp: 19531

Ion	Ratio	Lower	Upper
128	100		
129	10.3	0.0	41.3
127	14.1	0.0	43.5

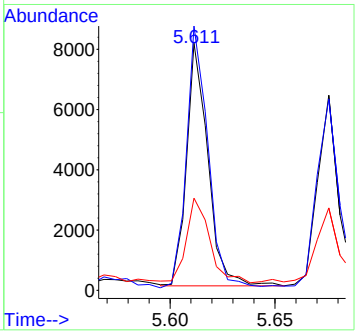


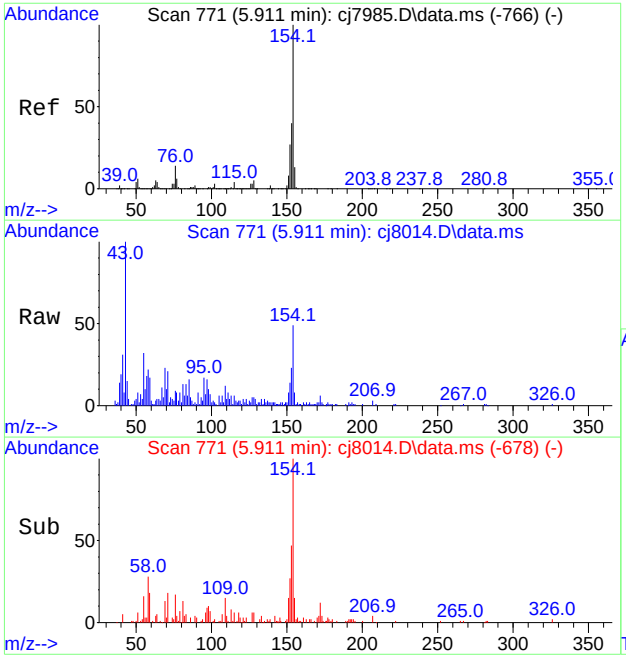


#44
2-Methylnaphthalene
Concen: 0.2895 ppm
RT: 5.611 min Scan# 715
Delta R.T. 0.005 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:141 Resp: 5694

Ion	Ratio	Lower	Upper
141	100		
142	107.8	83.7	143.7
115	34.4	9.3	69.3

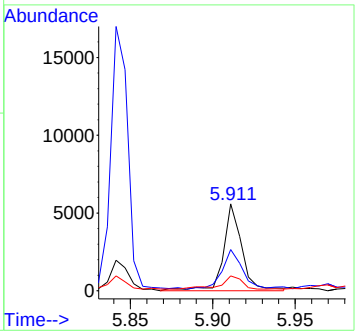


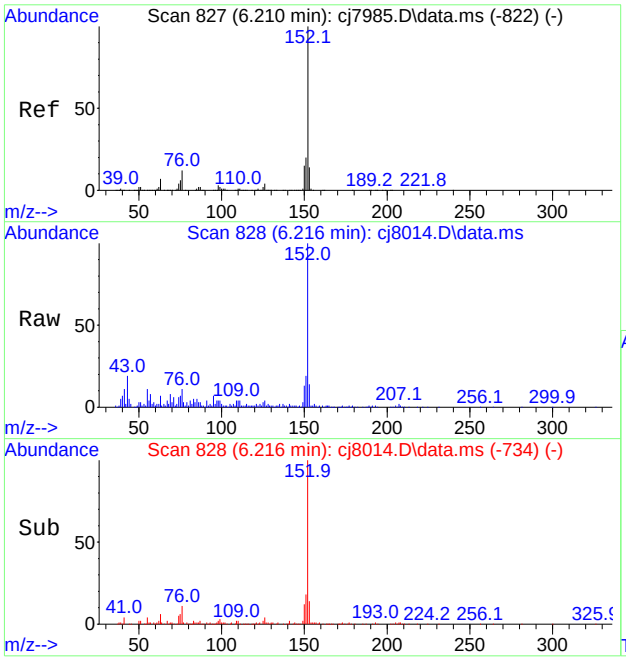


#53
Biphenyl
Concen: 0.1615 ppm
RT: 5.911 min Scan# 771
Delta R.T. -0.000 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:154 Resp: 4375

Ion	Ratio	Lower	Upper
154	100		
153	44.3	10.3	70.3
155	15.3	0.0	42.9

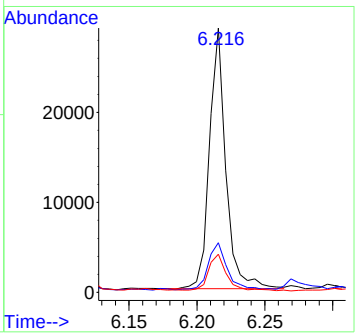


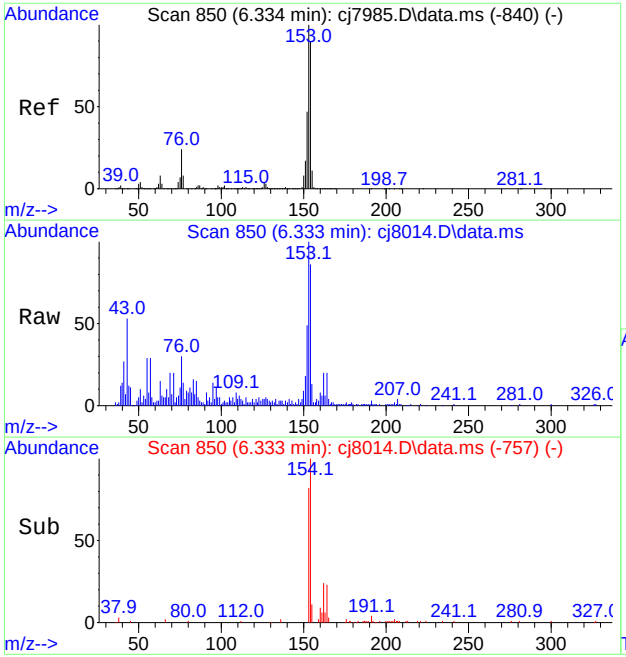


#56
Acenaphthylene
Concen: 0.7952 ppm
RT: 6.216 min Scan# 828
Delta R.T. 0.005 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:152 Resp: 24312

Ion	Ratio	Lower	Upper
152	100		
151	17.1	0.0	50.2
153	13.7	0.0	43.5

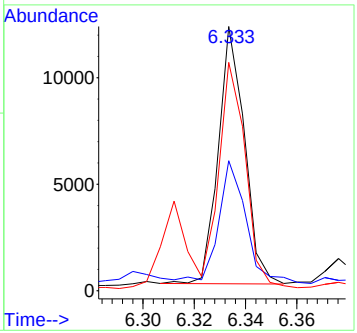


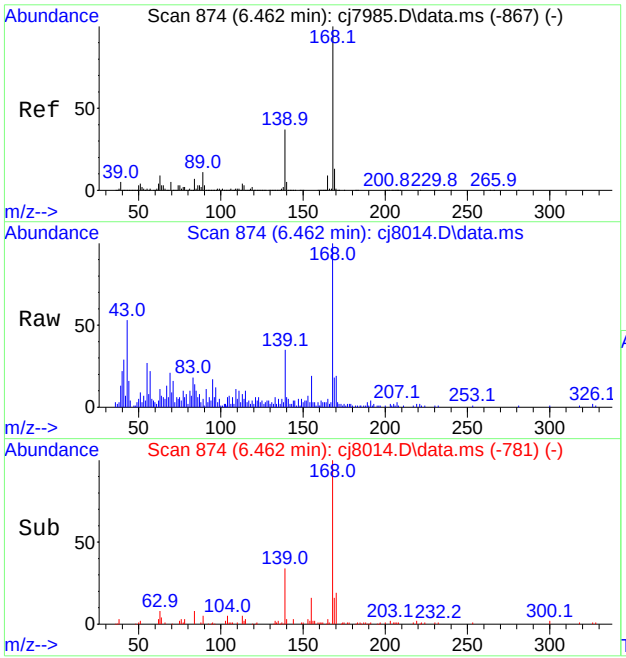


#59
Acenaphthene
Concen: 0.3948 ppm
RT: 6.333 min Scan# 850
Delta R.T. -0.000 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:153 Resp: 8583

Ion	Ratio	Lower	Upper
153	100		
152	45.5	16.9	76.9
154	79.3	56.2	116.2

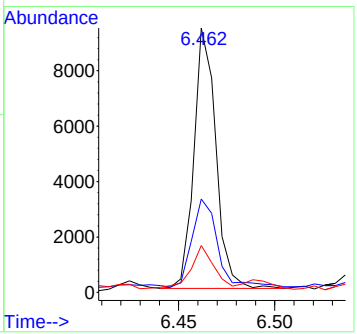


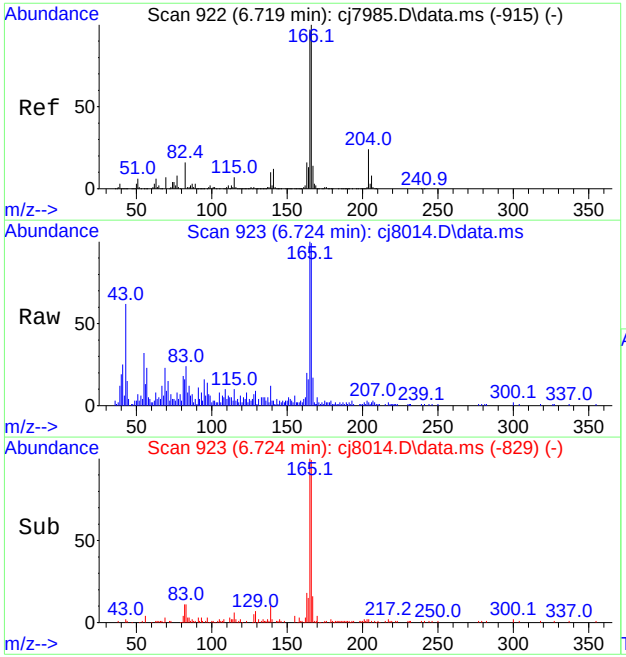


#62
Dibenzofuran
Concen: 0.2474 ppm
RT: 6.462 min Scan# 874
Delta R.T. -0.000 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:168 Resp: 7465

Ion	Ratio	Lower	Upper
168	100		
139	33.5	7.3	67.3
169	16.1	0.0	43.4

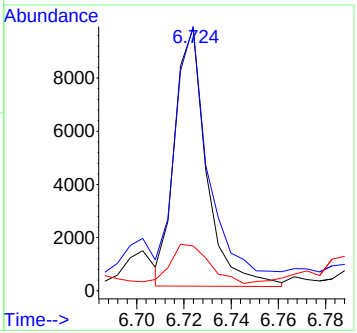


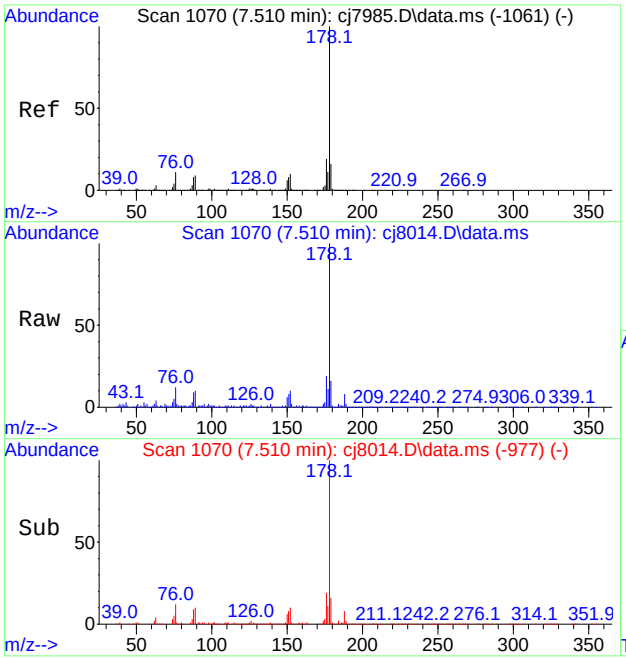


#66
Fluorene
Concen: 0.3811 ppm m
RT: 6.724 min Scan# 923
Delta R.T. 0.005 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:166 Resp: 9083

Ion	Ratio	Lower	Upper
166	100		
165	100.7	67.2	127.2
167	17.1	0.0	43.8

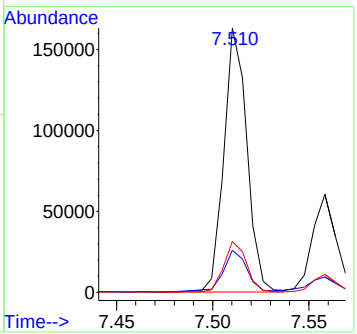


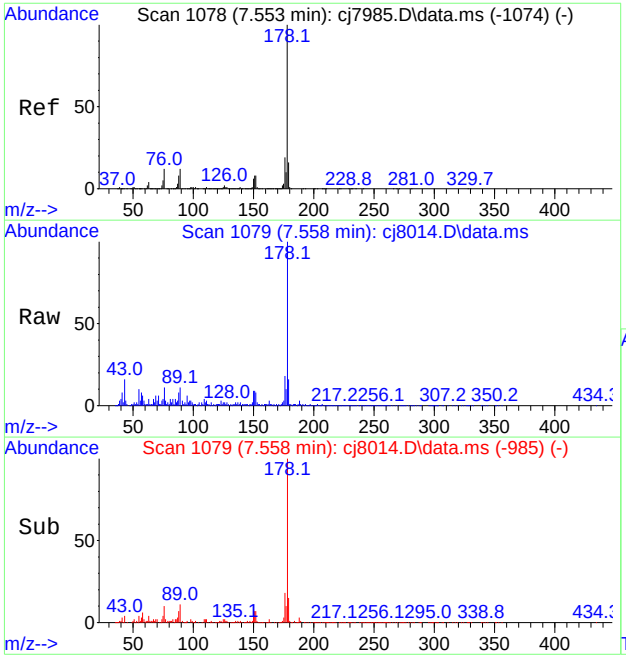


#78
Phenanthrene
Concen: 3.8711 ppm
RT: 7.510 min Scan# 1070
Delta R.T. -0.000 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:178 Resp: 135723

Ion	Ratio	Lower	Upper
178	100		
179	15.4	0.0	45.5
176	19.2	0.0	48.7

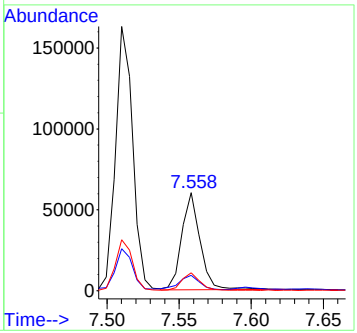


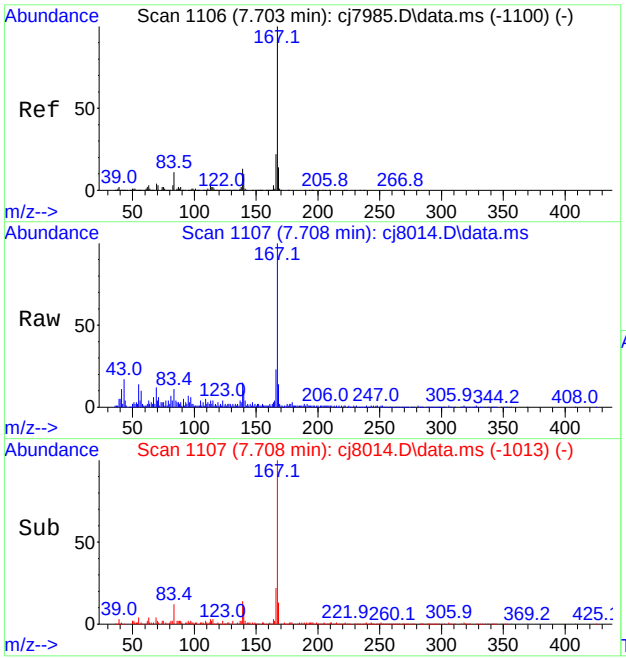


#79
Anthracene
Concen: 1.5274 ppm
RT: 7.558 min Scan# 1079
Delta R.T. 0.005 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:178 Resp: 53621

Ion	Ratio	Lower	Upper
178	100		
179	14.1	0.0	45.9
176	18.1	0.0	48.8

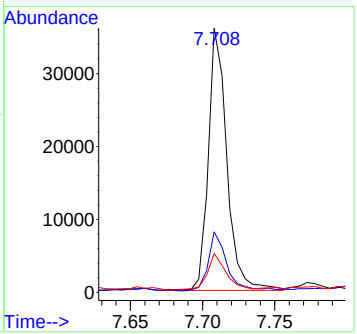


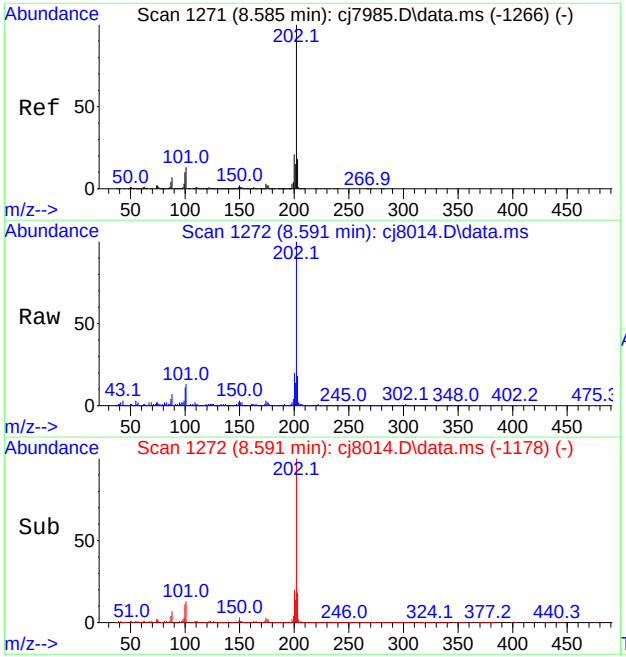


#80
Carbazole
Concen: 0.9761 ppm
RT: 7.708 min Scan# 1107
Delta R.T. 0.005 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:167 Resp: 31931

Ion	Ratio	Lower	Upper
167	100		
166	22.1	0.0	51.7
139	13.6	0.0	42.8

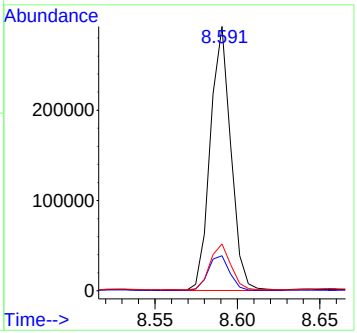


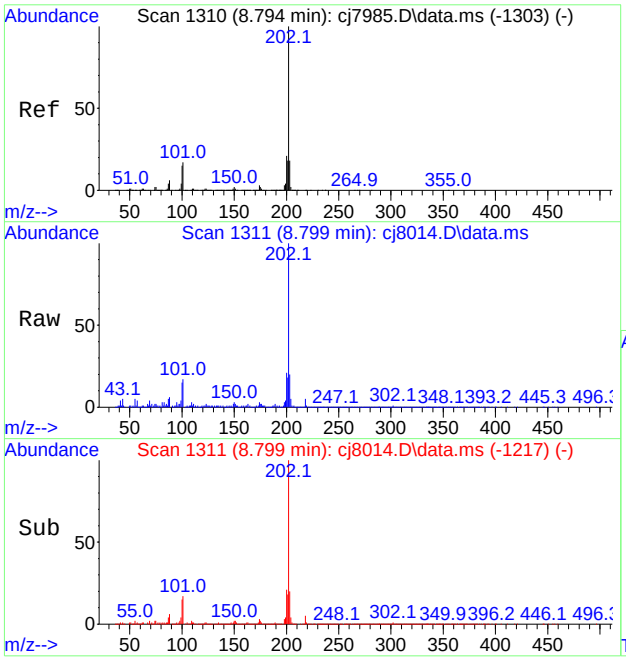


#82
Fluoranthene
Concen: 6.6858 ppm
RT: 8.591 min Scan# 1272
Delta R.T. 0.005 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:202 Resp: 253774

Ion	Ratio	Lower	Upper
202	100		
101	13.1	0.0	42.9
203	17.3	0.0	47.5

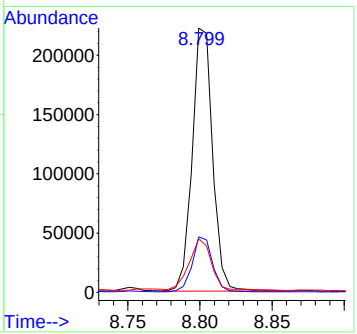


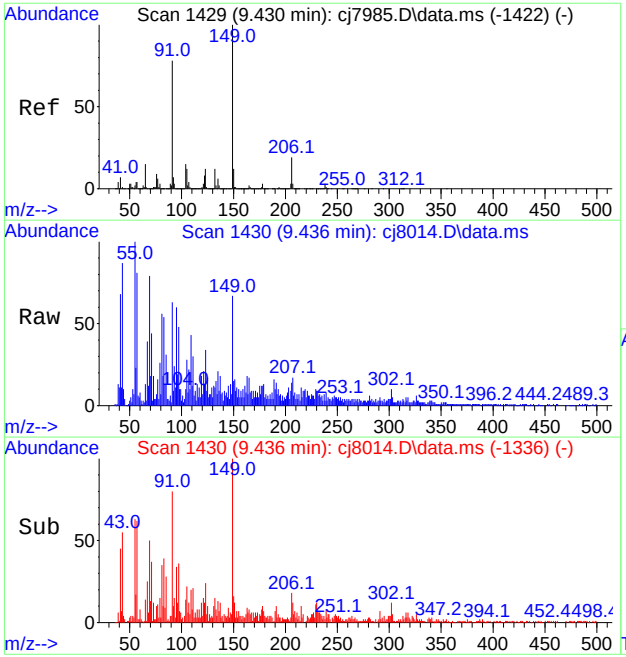


#86
Pyrene
Concen: 5.7277 ppm
RT: 8.799 min Scan# 1311
Delta R.T. 0.005 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:202 Resp: 218559

Ion	Ratio	Lower	Upper
202	100		
200	20.9	0.0	51.0
203	19.4	0.0	48.5

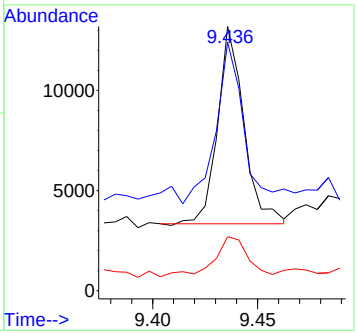


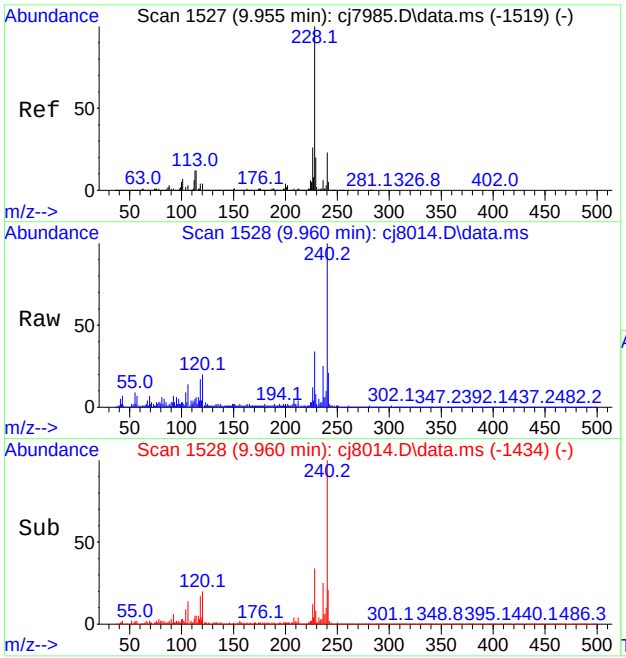


#88
Butylbenzylphthalate
Concen: 0.5058 ppm
RT: 9.436 min Scan# 1430
Delta R.T. 0.005 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:149 Resp: 8611

Ion	Ratio	Lower	Upper
149	100		
91	76.3	47.5	107.5
206	18.9	0.0	49.2

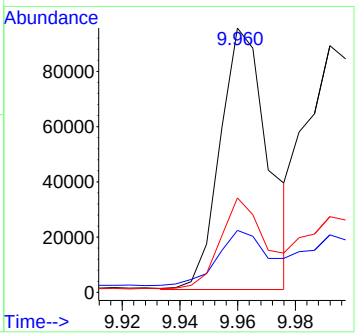


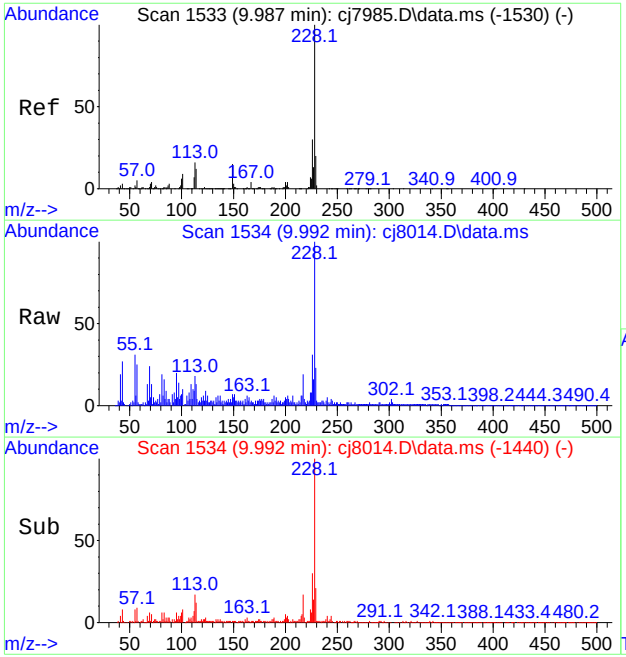


#89
Benzo[a]anthracene
Concen: 3.0475 ppm
RT: 9.960 min Scan# 1528
Delta R.T. 0.005 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:228 Resp: 109940

Ion	Ratio	Lower	Upper
228	100		
229	20.0	0.0	49.9
226	35.2	0.0	56.5

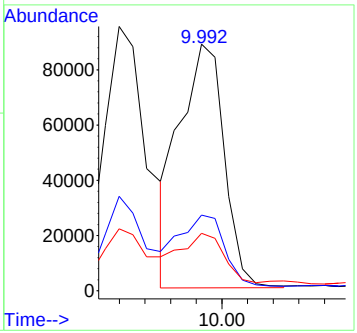


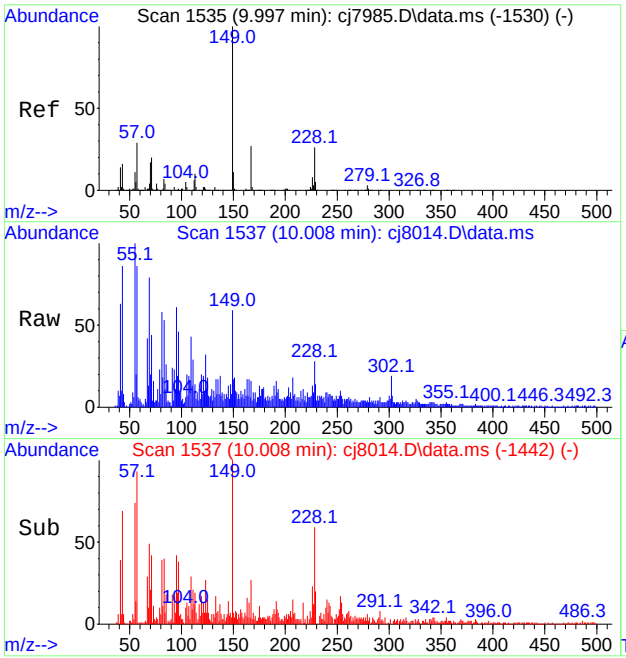


#91
Chrysene
Concen: 3.2268 ppm
RT: 9.992 min Scan# 1534
Delta R.T. 0.005 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:228 Resp: 107402

Ion	Ratio	Lower	Upper
228	100		
226	28.5	0.3	60.3
229	18.7	0.0	50.3

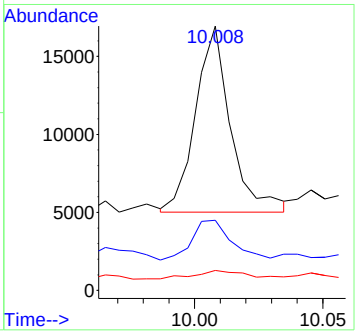


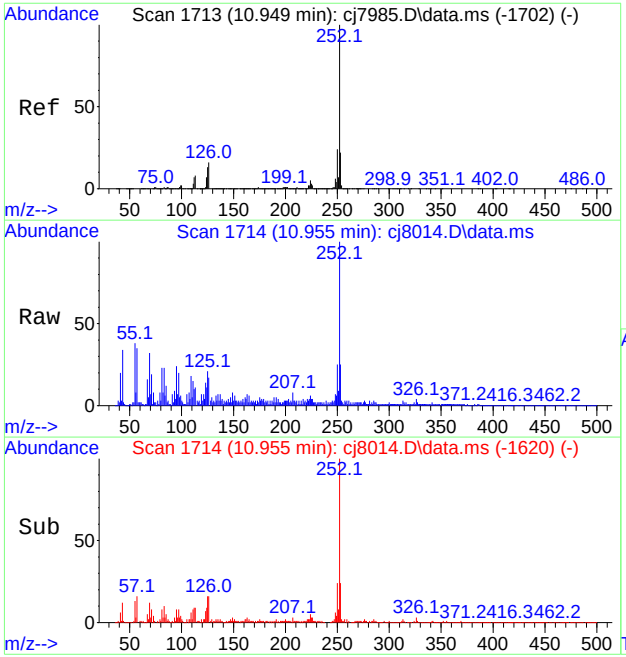


#92
bis(2-Ethylhexyl)phthalate
Concen: 0.4510 ppm m
RT: 10.008 min Scan# 1537
Delta R.T. 0.011 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:149 Resp: 11372

Ion	Ratio	Lower	Upper
149	100		
167	26.5	0.0	56.9
279	7.5	0.0	33.4

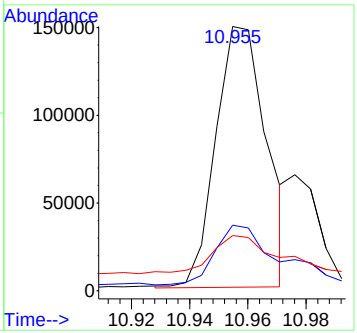


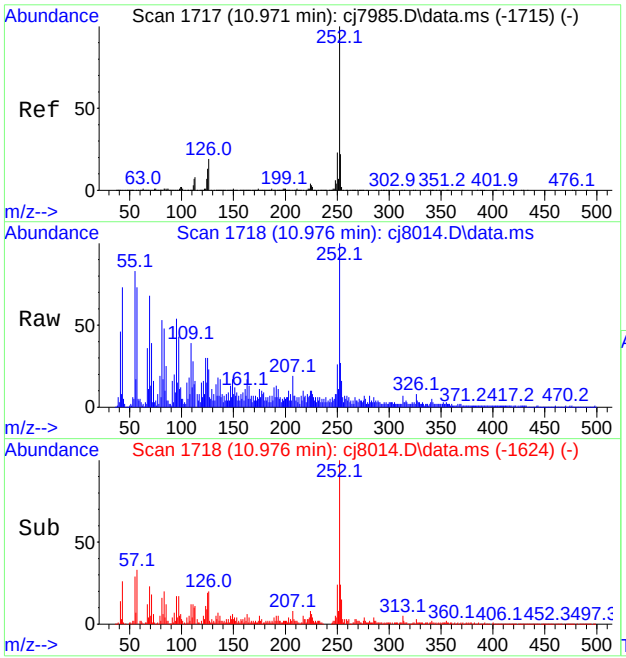


#95
Benzo[b]fluoranthene
Concen: 5.1881 ppm m
RT: 10.955 min Scan# 1714
Delta R.T. 0.005 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:252 Resp: 180371

Ion	Ratio	Lower	Upper
252	100		
253	24.8	0.0	52.5
125	20.9	0.0	42.4

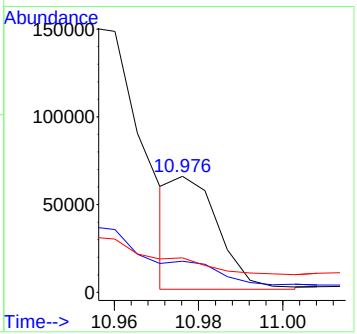


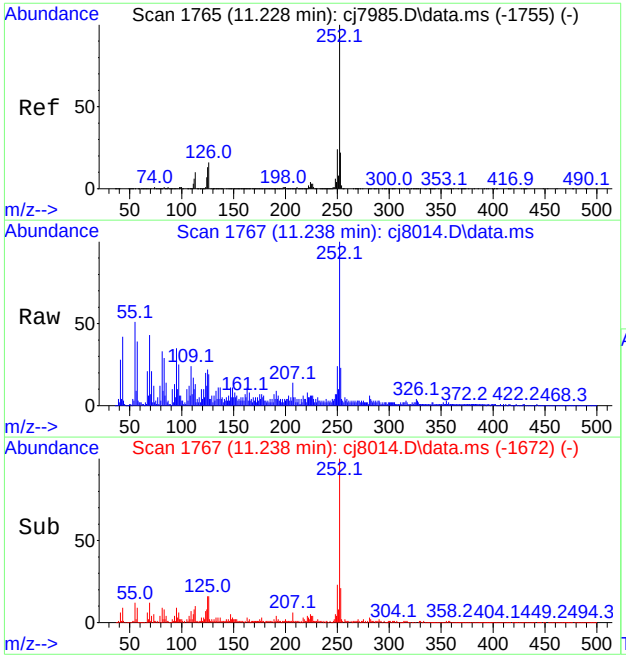


#96
Benzo[k]fluoranthene
Concen: 1.5467 ppm m
RT: 10.976 min Scan# 1718
Delta R.T. 0.005 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:252 Resp: 48386

Ion	Ratio	Lower	Upper
252	100		
253	26.9	0.0	51.7
125	29.7	0.0	43.5

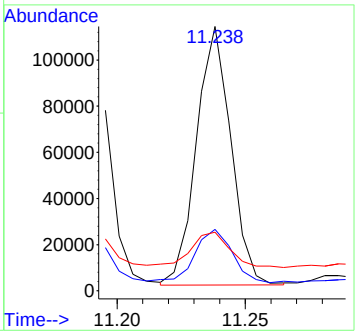


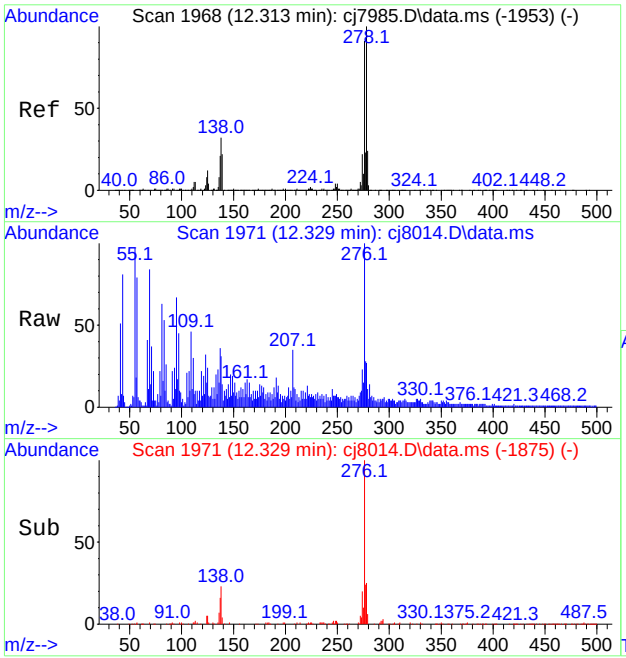


#97
Benzo[a]pyrene
Concen: 3.6595 ppm
RT: 11.238 min Scan# 1767
Delta R.T. 0.011 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:252 Resp: 105323

Ion	Ratio	Lower	Upper
252	100		
253	19.9	0.0	52.1
125	13.2	0.0	42.5

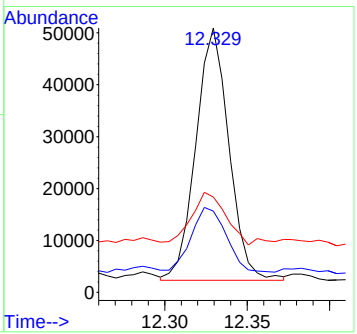


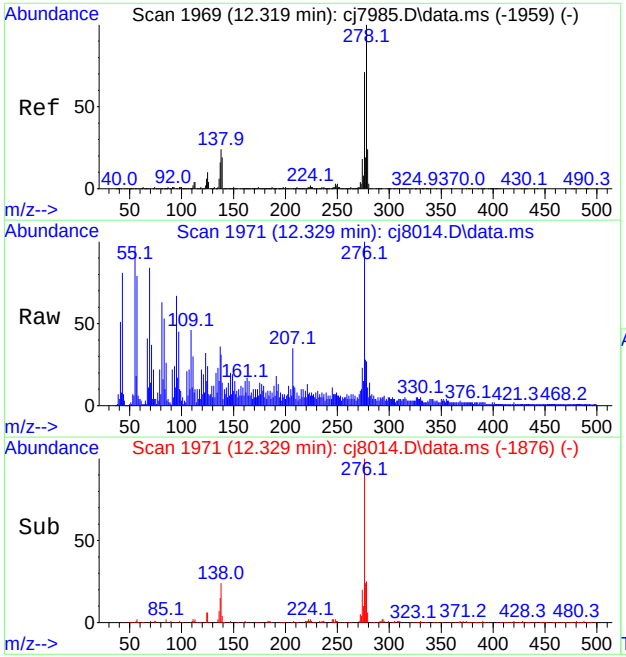


#98
Indeno[1,2,3-cd]pyrene
Concen: 1.9490 ppm
RT: 12.329 min Scan# 1971
Delta R.T. 0.016 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:276 Resp: 67811

Ion	Ratio	Lower	Upper
276	100		
138	23.4	5.2	65.2
137	17.6	0.0	53.3

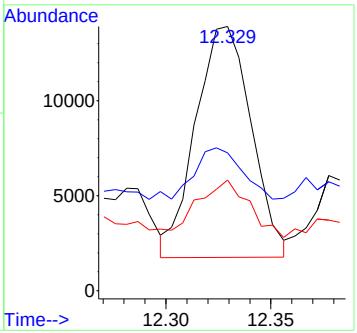


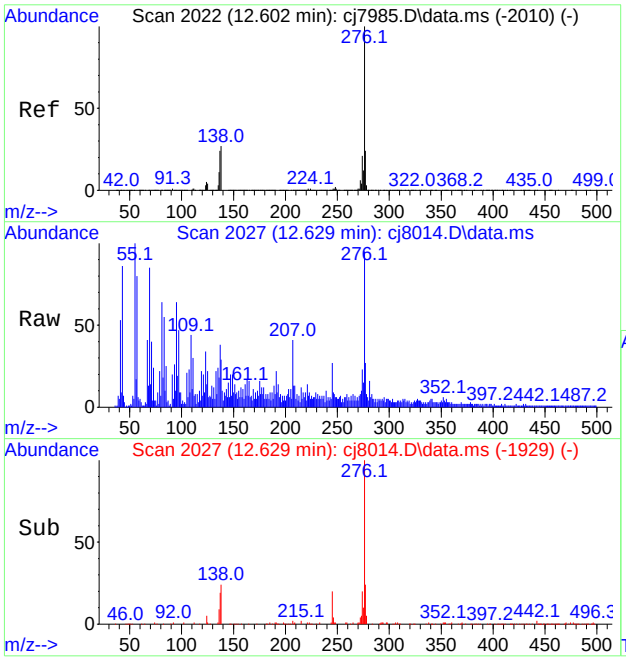


#100
Dibenz[a,h]anthracene
Concen: 0.8073 ppm
RT: 12.329 min Scan# 1971
Delta R.T. 0.011 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:278 Resp: 22444

Ion	Ratio	Lower	Upper
278	100		
139	19.8	0.0	48.9
279	25.2	0.0	53.7

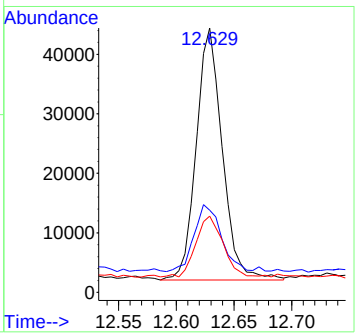




#102
Benzo[g,h,i]perylene
Concen: 2.4615 ppm
RT: 12.629 min Scan# 2027
Delta R.T. 0.027 min
Lab File: cj8014.D
Acq: 01 Jul 2024 09:11 pm

Tgt Ion:276 Resp: 66555

Ion	Ratio	Lower	Upper
276	100		
138	24.2	0.0	57.0
277	23.9	0.0	53.6



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8014.D
Acq On : 01 Jul 2024 09:11 pm
Operator : karimam
Sample : jd91204-6
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj8014.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.060	421	425	433	rBV	86259	110927	2.73%	0.210%
2	4.183	439	448	452	rBV	1021857	1049492	25.82%	1.982%
3	4.215	452	454	460	rVV	836900	628102	15.45%	1.186%
4	4.370	479	483	496	rVB	2959072	2353639	57.91%	4.446%
5	4.515	507	510	514	rBV	251052	182775	4.50%	0.345%
6	4.552	514	517	519	rBV2	396335	501532	12.34%	0.947%
7	4.579	519	522	529	rVB2	478199	487522	11.99%	0.921%
8	4.724	540	549	560	rBV	1489305	1290436	31.75%	2.437%
9	4.798	560	563	573	rVB2	554094	446709	10.99%	0.844%
10	4.943	583	590	598	rBV	2444124	1536691	37.81%	2.903%
11	5.023	598	605	617	rVB7	35821	84483	2.08%	0.160%
12	5.146	617	628	629	rBV	1287953	844502	20.78%	1.595%
13	5.167	629	632	644	rVB	4366018	3040020	74.80%	5.742%
14	5.333	657	663	670	rBV	83831	89133	2.19%	0.168%
15	5.424	678	680	687	rVB2	71793	83304	2.05%	0.157%
16	5.793	746	749	754	rBV	213820	189838	4.67%	0.359%
17	5.841	754	758	764	rBV	3169654	2258880	55.58%	4.267%
18	5.895	764	768	775	rVB3	69434	85713	2.11%	0.162%
19	5.970	779	782	788	rVB	105943	109614	2.70%	0.207%
20	6.050	794	797	800	rBV	153836	114435	2.82%	0.216%
21	6.312	839	846	855	rBV	4933988	3500312	86.12%	6.612%
22	6.804	928	938	943	rBV5	37312	88020	2.17%	0.166%
23	6.916	955	959	969	rVB	833353	725490	17.85%	1.370%
24	7.013	969	977	982	rBV3	73650	104658	2.57%	0.198%
25	7.393	1041	1048	1054	rBV2	173076	212053	5.22%	0.401%
26	7.494	1061	1067	1075	rBV	4189407	4001376	98.45%	7.558%
27	7.558	1076	1079	1083	rVB	171750	149405	3.68%	0.282%
28	7.708	1101	1107	1113	rBV	95156	134781	3.32%	0.255%
29	7.938	1142	1150	1152	rBV	61430	78492	1.93%	0.148%
30	7.959	1152	1154	1158	rBV	85708	81198	2.00%	0.153%
31	7.997	1158	1161	1166	rBV3	207390	215369	5.30%	0.407%
32	8.034	1166	1168	1176	rVB	84464	116500	2.87%	0.220%
33	8.147	1186	1189	1194	rBV4	56178	69157	1.70%	0.131%
34	8.334	1217	1224	1228	rBV2	84079	94733	2.33%	0.179%
35	8.532	1256	1261	1264	rBV3	56469	83309	2.05%	0.157%
36	8.591	1267	1272	1279	rBV	682772	640468	15.76%	1.210%
37	8.676	1279	1288	1293	rBV5	65123	144535	3.56%	0.273%
38	8.740	1293	1300	1305	rBV6	101975	173324	4.26%	0.327%
39	8.799	1305	1311	1320	rBV	568532	649699	15.99%	1.227%
40	8.874	1320	1325	1329	rBV2	69115	80826	1.99%	0.153%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8014.D
Acq On : 01 Jul 2024 09:11 pm
Operator : karimam
Sample : jd91204-6
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	8.960	1329	1341	1347	rBV	2314563	2236908	55.04%	4.225%
42	9.109	1362	1369	1370	rBV5	64116	85495	2.10%	0.161%
43	9.190	1376	1384	1387	rBV2	70388	108797	2.68%	0.206%
44	9.222	1387	1390	1394	rBV2	157679	173769	4.28%	0.328%
45	9.436	1422	1430	1434	rBV4	67073	106347	2.62%	0.201%
46	9.495	1434	1441	1443	rBV8	46273	79068	1.95%	0.149%
47	9.564	1445	1454	1457	rBV4	99943	162024	3.99%	0.306%
48	9.628	1457	1466	1470	rBV	71650	119566	2.94%	0.226%
49	9.676	1470	1475	1479	rBV3	71134	114620	2.82%	0.217%
50	9.719	1479	1483	1485	rBV2	100240	126467	3.11%	0.239%
51	9.890	1511	1515	1521	rBV2	166447	257437	6.33%	0.486%
52	9.971	1525	1530	1542	rBV	3579806	4064408	100.00%	7.677%
53	10.067	1543	1548	1552	rBV5	60668	90049	2.22%	0.170%
54	10.131	1555	1560	1565	rBV9	48315	84680	2.08%	0.160%
55	10.201	1565	1573	1579	rBV4	126777	324121	7.97%	0.612%
56	10.275	1581	1587	1590	rBV8	57777	108959	2.68%	0.206%
57	10.356	1598	1602	1605	rBV3	69680	86198	2.12%	0.163%
58	10.415	1605	1613	1616	rBV6	106319	217676	5.36%	0.411%
59	10.505	1621	1630	1632	rBV3	166299	255194	6.28%	0.482%
60	10.532	1632	1635	1643	rVB6	125808	160090	3.94%	0.302%
61	10.628	1643	1653	1655	rBV6	85804	193433	4.76%	0.365%
62	10.650	1655	1657	1660	rBV2	68630	70402	1.73%	0.133%
63	10.677	1660	1662	1668	rBV6	47670	81887	2.01%	0.155%
64	10.746	1668	1675	1676	rBV6	81991	118566	2.92%	0.224%
65	10.800	1681	1685	1688	rVV	125161	138918	3.42%	0.262%
66	10.853	1688	1695	1697	rVV6	107720	217030	5.34%	0.410%
67	10.901	1697	1704	1706	rVV8	115375	279758	6.88%	0.528%
68	10.960	1706	1715	1721	rVV	611575	1421955	34.99%	2.686%
69	11.040	1722	1730	1733	rVV5	229196	684167	16.83%	1.292%
70	11.088	1733	1739	1742	rVV2	392385	803174	19.76%	1.517%
71	11.126	1742	1746	1752	rVV8	285975	823525	20.26%	1.556%
72	11.190	1752	1758	1762	rVV	475127	967302	23.80%	1.827%
73	11.238	1762	1767	1770	rVV	449457	673743	16.58%	1.273%
74	11.286	1770	1776	1788	rVV	3410132	3843754	94.57%	7.260%
75	11.367	1788	1791	1799	rVV7	86695	194438	4.78%	0.367%
76	11.463	1803	1809	1810	rBV5	65092	115480	2.84%	0.218%
77	11.516	1815	1819	1829	rVV7	342034	1030436	25.35%	1.946%
78	11.597	1830	1834	1838	rVV6	154809	337440	8.30%	0.637%
79	11.655	1839	1845	1847	rVV6	160728	339119	8.34%	0.641%
80	11.682	1847	1850	1855	rVV2	173178	285146	7.02%	0.539%
81	11.752	1855	1863	1871	rVV7	180116	500727	12.32%	0.946%
82	11.864	1878	1884	1890	rBV9	74598	159026	3.91%	0.300%
83	11.939	1895	1898	1904	rVB7	98641	143804	3.54%	0.272%
84	12.003	1904	1910	1913	rBV7	78609	143791	3.54%	0.272%
85	12.051	1913	1919	1928	rVB6	167327	329323	8.10%	0.622%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8014.D
Acq On : 01 Jul 2024 09:11 pm
Operator : karimam
Sample : jd91204-6
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.121	1928	1932	1939	rVB9	68566	131014	3.22%	0.247%
87	12.222	1939	1951	1956	rBV9	144941	341553	8.40%	0.645%
88	12.329	1965	1971	1977	rVB	187856	310476	7.64%	0.586%
89	12.436	1985	1991	1997	rBV8	129392	241799	5.95%	0.457%
90	12.490	1997	2001	2004	rVV5	83937	119642	2.94%	0.226%
91	12.527	2004	2008	2019	rVB5	118364	324707	7.99%	0.613%
92	12.624	2021	2026	2036	rVB3	152161	312605	7.69%	0.590%
93	12.720	2038	2044	2050	rBV10	84688	174421	4.29%	0.329%
94	12.779	2050	2055	2060	rVB9	73421	159127	3.92%	0.301%
95	13.019	2096	2100	2107	rVB10	46556	82224	2.02%	0.155%
96	13.148	2118	2124	2129	rBV6	99402	202073	4.97%	0.382%
97	13.239	2138	2141	2149	rVB10	83568	152440	3.75%	0.288%
98	13.351	2157	2162	2170	rBV10	79539	164402	4.04%	0.311%
99	13.832	2247	2252	2259	rVB10	64935	112086	2.76%	0.212%
100	14.116	2298	2305	2322	rVB10	104566	423142	10.41%	0.799%

Sum of corrected areas: 52941380

LSC Report - Integrated Chromatogram

```
Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8014.D
Acq On    : 01 Jul 2024  09:11 pm
Operator  : karimam
Sample    : jd91204-6
Misc      : op55759,ecj348,30.9,,,1,1
ALS Vial  : 30   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title  : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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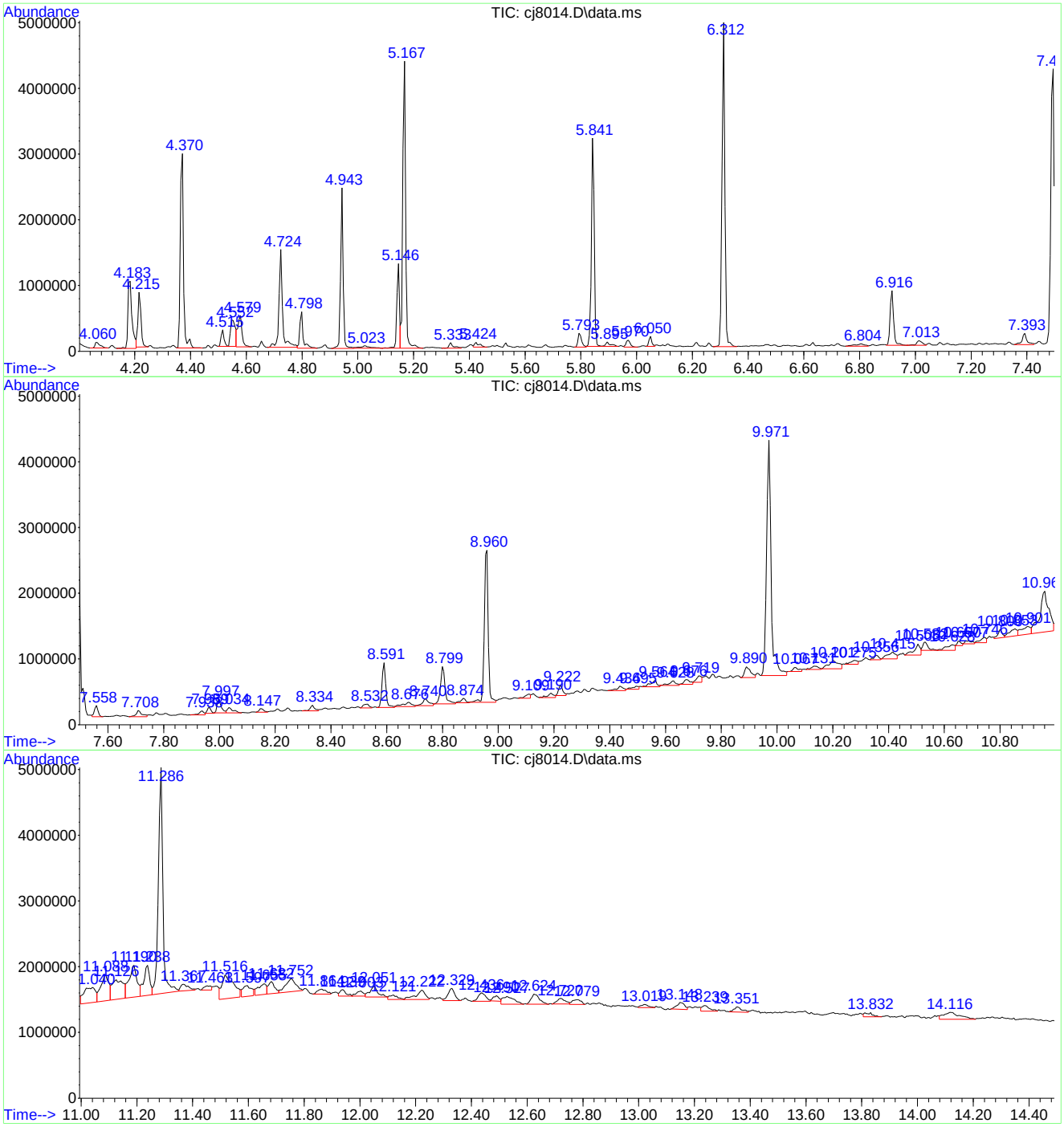


Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8014.D
Acq On : 01 Jul 2024 09:11 pm
Operator : karimam
Sample : jd91204-6
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

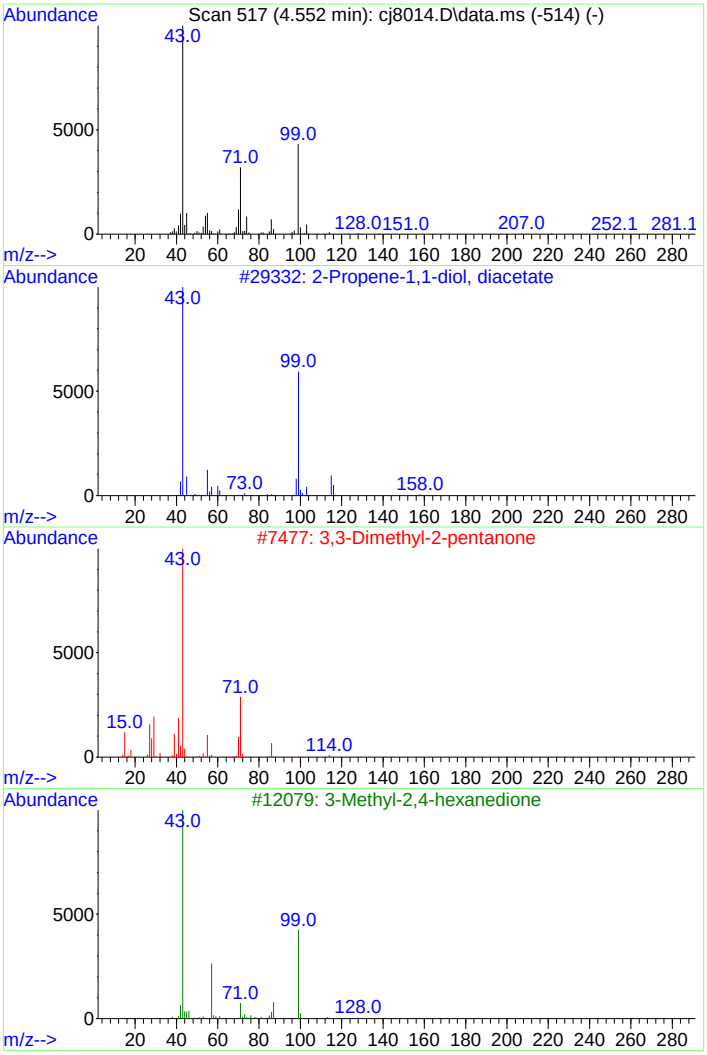
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

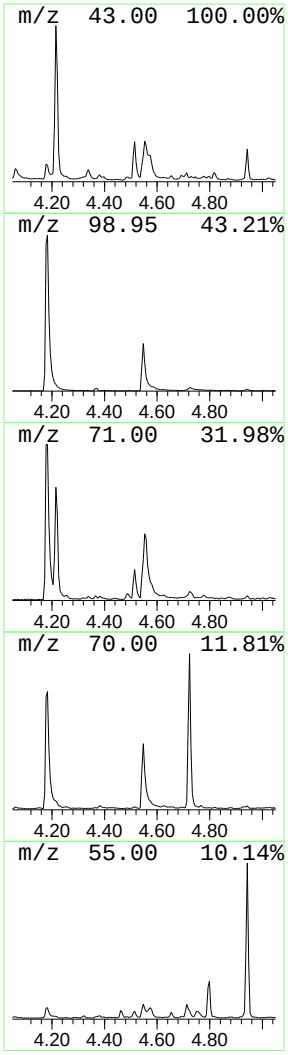
****

Peak Number 1 Unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.552	8.52 ppm	501532	1,4-Dichlorobenzene-d4a	4.370

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propene-1,1-diol, diacetate	158	C7H10O4	000869-29-4	53
2	3,3-Dimethyl-2-pentanone	114	C7H14O	020669-04-9	43
3	3-Methyl-2,4-hexanedione	128	C7H12O2	004220-52-4	38
4	Pentane, 1-propoxy-	130	C8H18O	018641-82-2	35
5	Hexanoic acid, 2-methylbutyl ester	186	C11H22O2	002601-13-0	33





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8014.D
Acq On : 01 Jul 2024 09:11 pm
Operator : karimam
Sample : jd91204-6
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

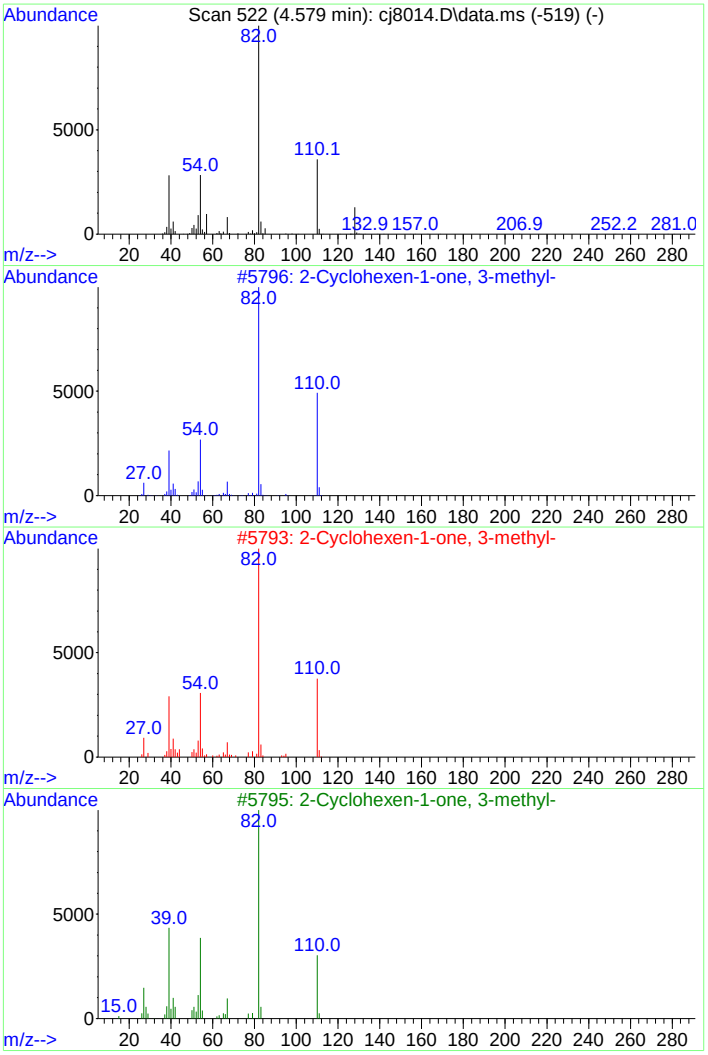
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

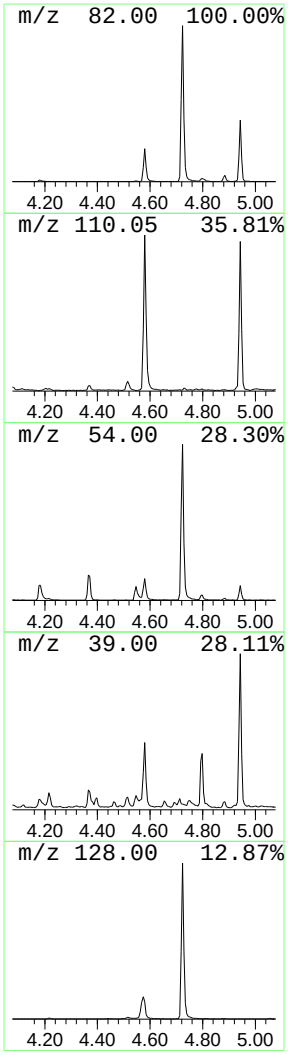
****

Peak Number 2 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.579	8.29 ppm	487522	1,4-Dichlorobenzene-d4a	4.370

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Cyclohexen-1-one, 3-methyl-	110	C7H10O	001193-18-6	83
2	2-Cyclohexen-1-one, 3-methyl-	110	C7H10O	001193-18-6	80
3	2-Cyclohexen-1-one, 3-methyl-	110	C7H10O	001193-18-6	72
4	1H-Pyrazole, 1-methyl-	82	C4H6N2	000930-36-9	47
5	2-Cyclohexen-1-one, 6-(1-hydroxy...	168	C10H16O2	087791-00-2	40





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8014.D
Acq On : 01 Jul 2024 09:11 pm
Operator : karimam
Sample : jd91204-6
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

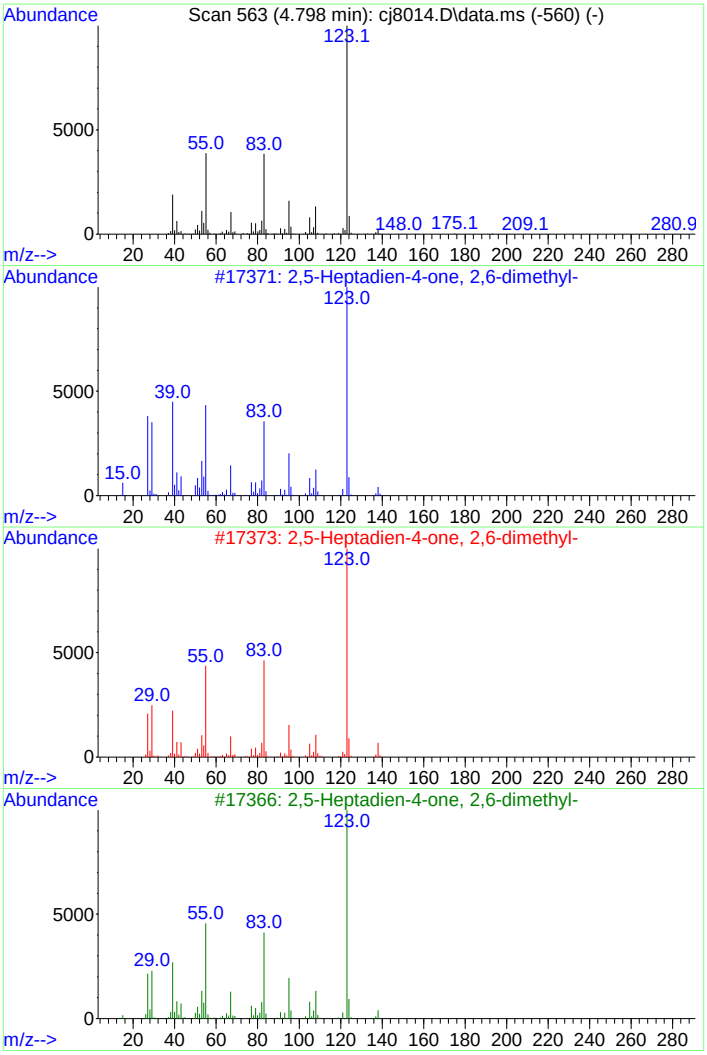
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

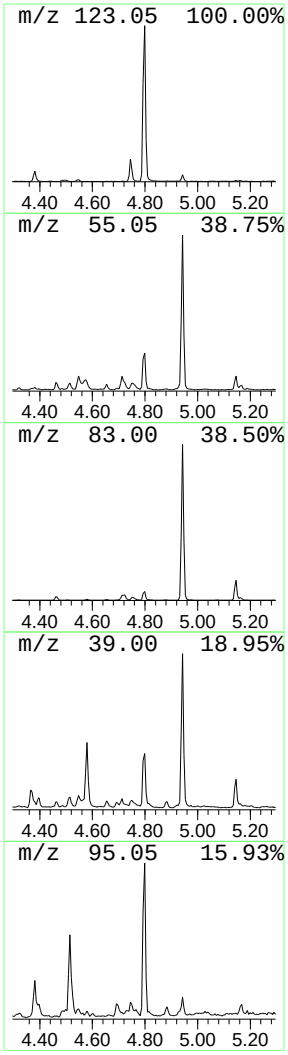
****

Peak Number 3 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.798	5.88 ppm	446709	Naphthalene-d8	5.167

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,5-Heptadien-4-one, 2,6-dimethyl-	138	C9H14O	000504-20-1	91
2	2,5-Heptadien-4-one, 2,6-dimethyl-	138	C9H14O	000504-20-1	90
3	2,5-Heptadien-4-one, 2,6-dimethyl-	138	C9H14O	000504-20-1	68
4	3-Pyridinol, 2,6-dimethyl-	123	C7H9NO	001122-43-6	43
5	3-Fluorobenzoic acid, 2-formyl-4...	312	C14H7Cl2FO3	1000330-84-9	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8014.D
Acq On : 01 Jul 2024 09:11 pm
Operator : karimam
Sample : jd91204-6
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

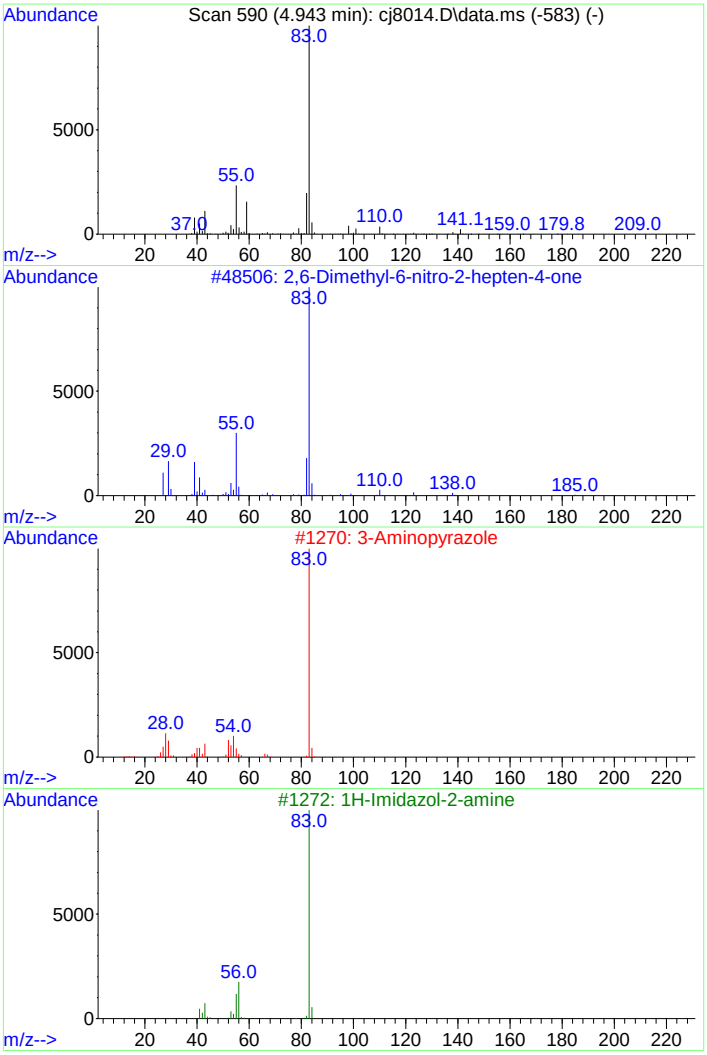
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

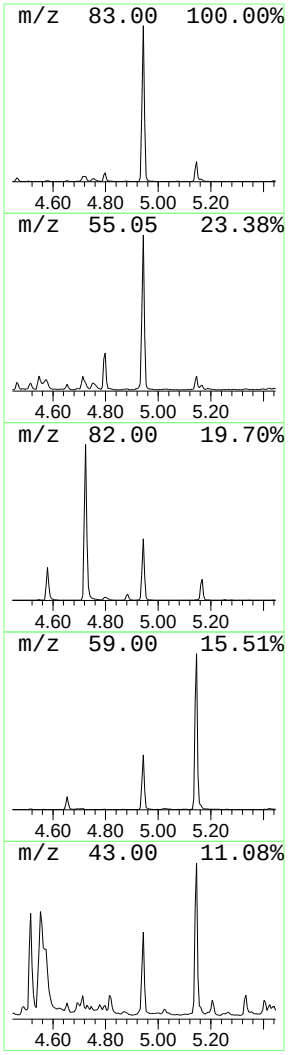
****

Peak Number 4 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.943	20.22 ppm	1536690	Naphthalene-d8	5.167

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,6-Dimethyl-6-nitro-2-hepten-4-one	185	C9H15NO3	073583-56-9	56
2	3-Aminopyrazole	83	C3H5N3	001820-80-0	50
3	1H-Imidazol-2-amine	83	C3H5N3	007720-39-0	50
4	3-Methyl-2-butenoic acid, cyclob...	154	C9H14O2	1000282-89-1	36
5	3-Methyl-2-butenoic acid, tridec...	278	C18H30O2	1000299-31-7	36





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8014.D
Acq On : 01 Jul 2024 09:11 pm
Operator : karimam
Sample : jd91204-6
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

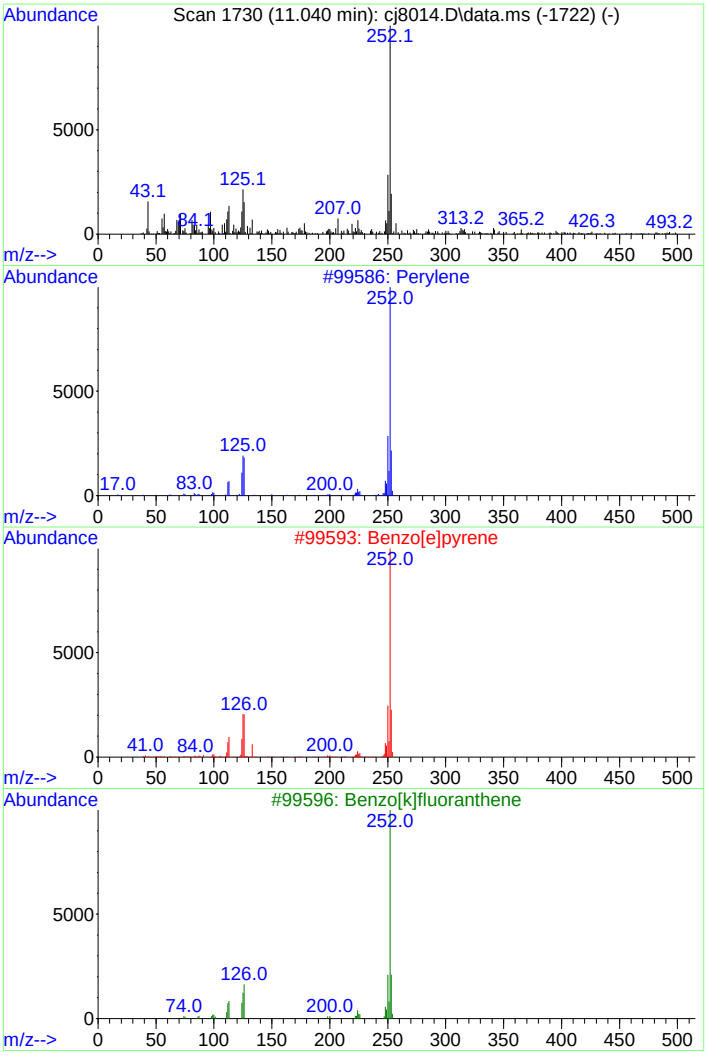
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

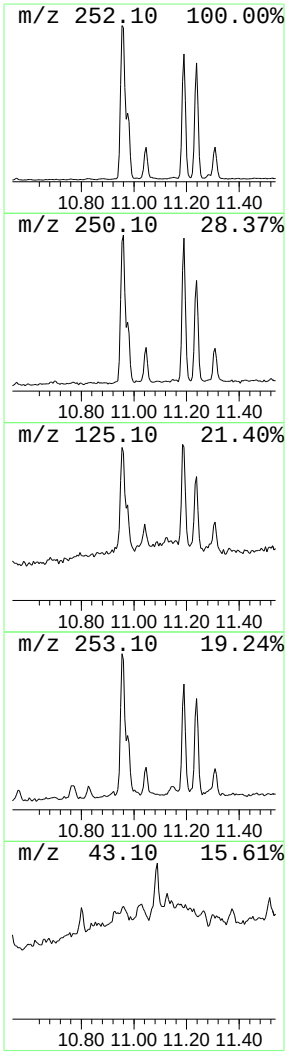
****

Peak Number 5 Unknown PAH substance Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.040	7.12 ppm	684167	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	94
2	Benzo[e]pyrene	252	C20H12	000192-97-2	94
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
4	Perylene	252	C20H12	000198-55-0	90
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	86





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8014.D
Acq On : 01 Jul 2024 09:11 pm
Operator : karimam
Sample : jd91204-6
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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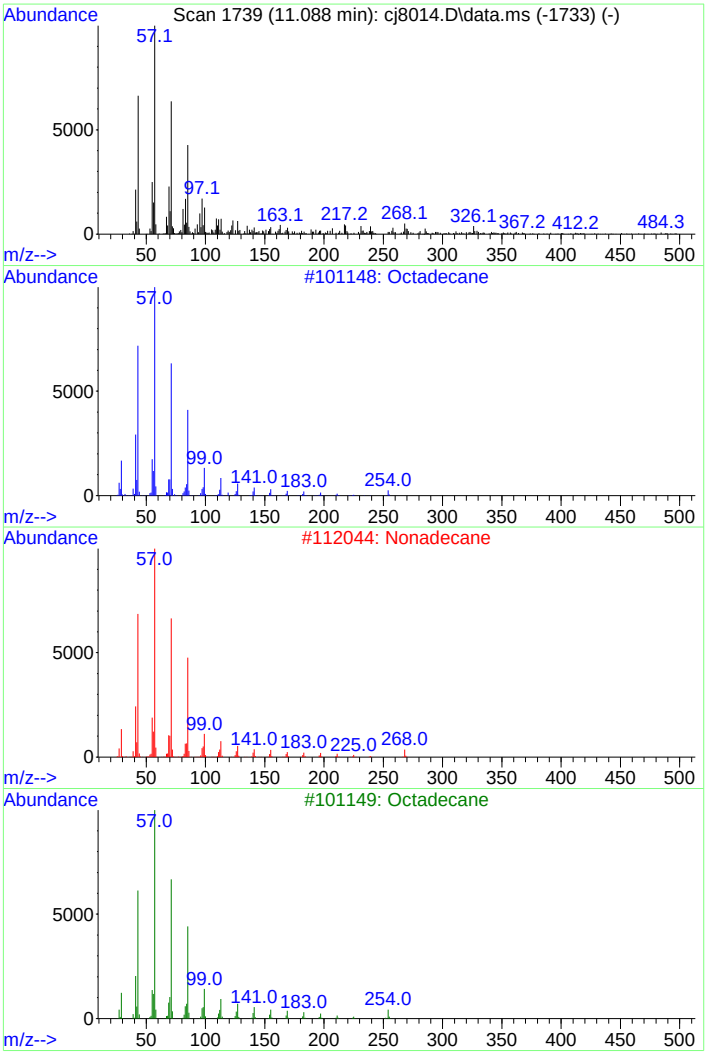
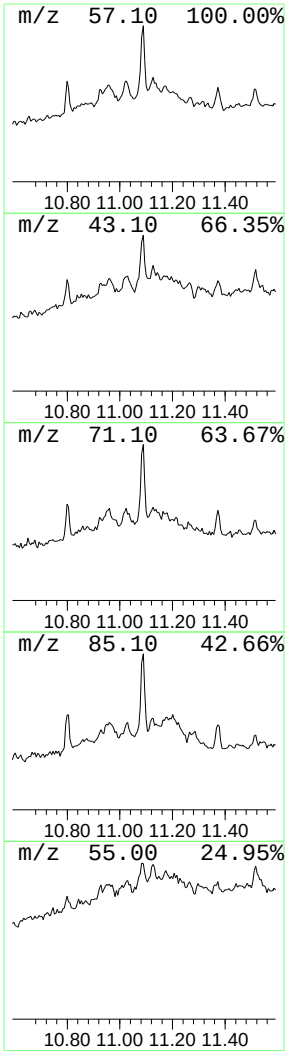
Peak Number 6 Alkane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.089	8.36 ppm	803174	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	93
2	Nonadecane	268	C19H40	000629-92-5	90
3	Octadecane	254	C18H38	000593-45-3	90
4	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	89
5	Heptadecane	240	C17H36	000629-78-7	81





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8014.D
Acq On : 01 Jul 2024 09:11 pm
Operator : karimam
Sample : jd91204-6
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

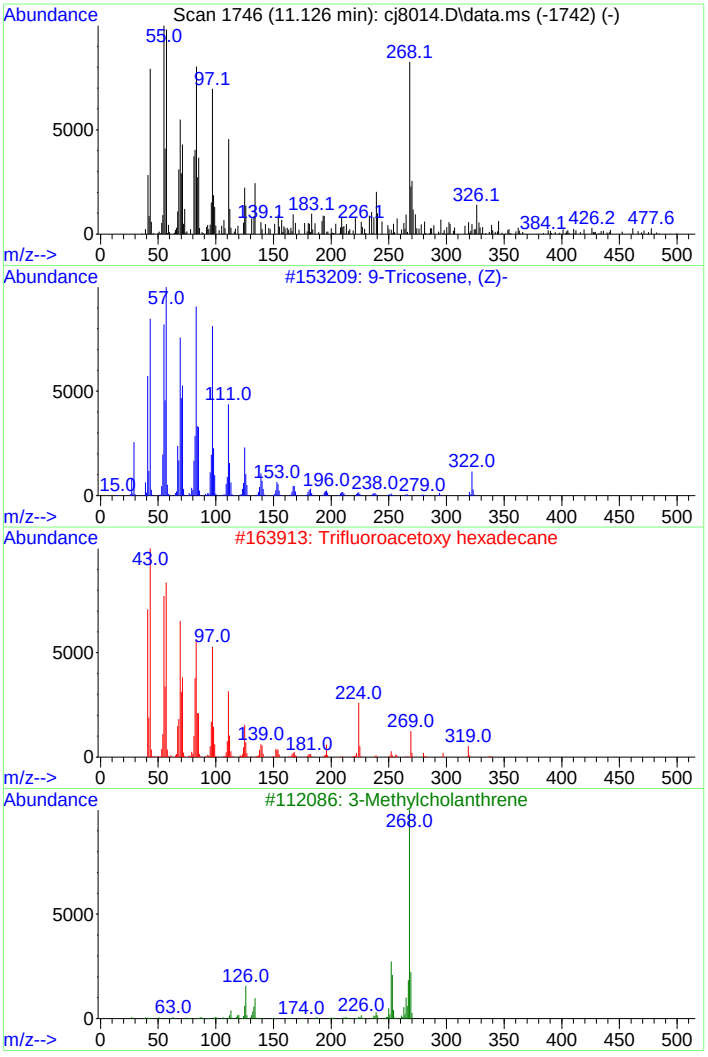
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

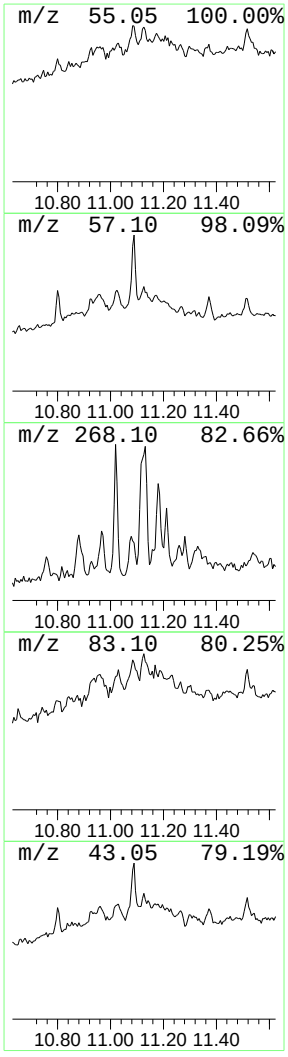
****

Peak Number 7 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.126	8.57 ppm	823525	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Tricosene, (Z)-	322	C23H46	027519-02-4	49
2	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	45
3	3-Methylcholanthrene	268	C21H16	000056-49-5	38
4	9-Tricosene, (Z)-	322	C23H46	027519-02-4	38
5	2-Methyl-2-docosene	322	C23H46	1000131-16-9	30





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8014.D
Acq On : 01 Jul 2024 09:11 pm
Operator : karimam
Sample : jd91204-6
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

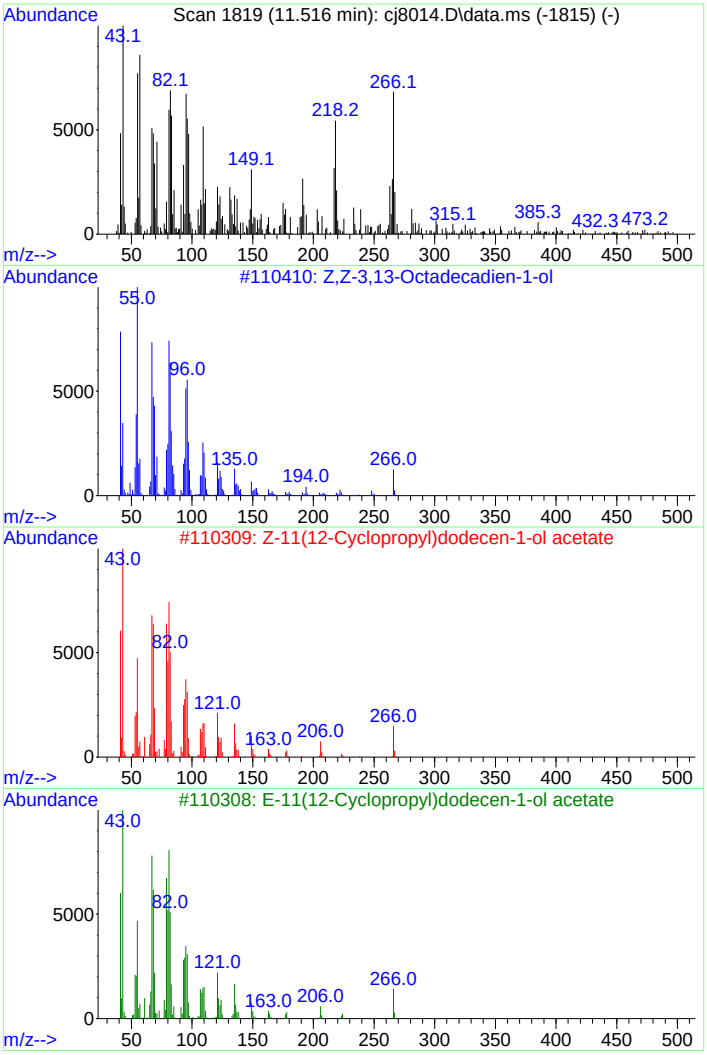
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

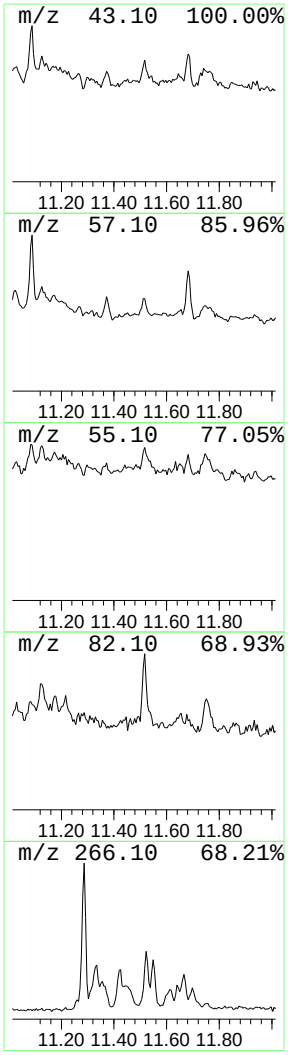
****

Peak Number 8 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.516	10.72 ppm	1030440	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Z,Z-3,13-Octadecadien-1-ol	266	C18H34O	1000131-10-9	50
2	Z-11(12-Cyclopropyl)dodecen-1-ol...	266	C17H30O2	1000130-71-1	35
3	E-11(12-Cyclopropyl)dodecen-1-ol...	266	C17H30O2	1000130-71-0	18
4	Cyclohexane, 1,1'-dodecylidenebi...	362	C26H50	055334-09-3	18
5	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	15





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8014.D
Acq On : 01 Jul 2024 09:11 pm
Operator : karimam
Sample : jd91204-6
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

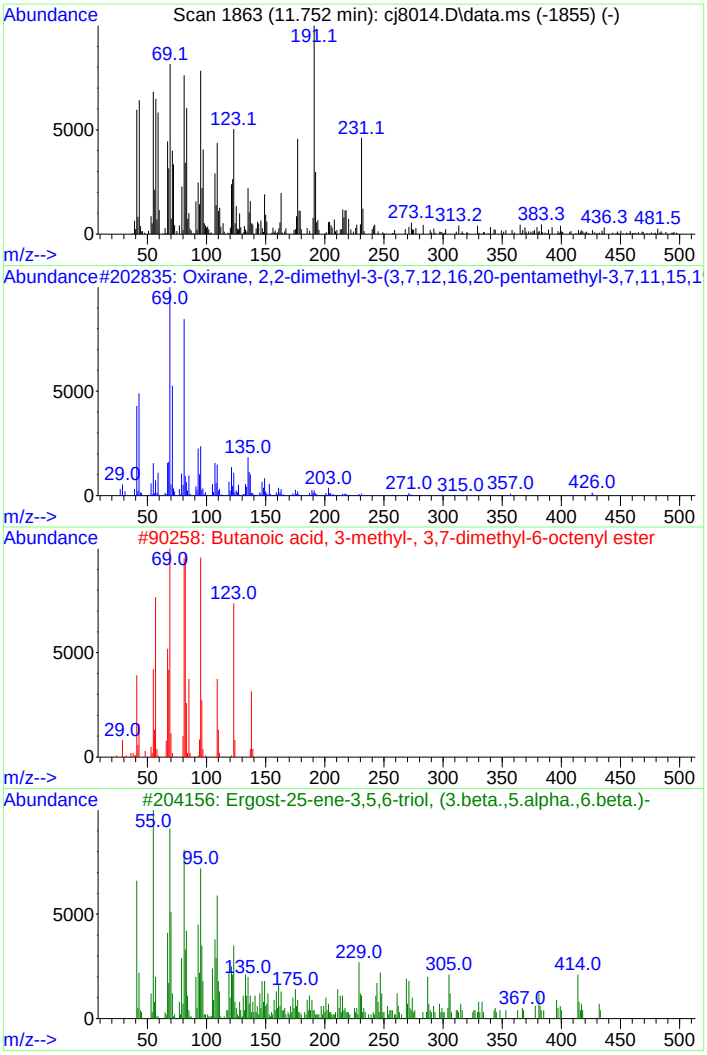
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

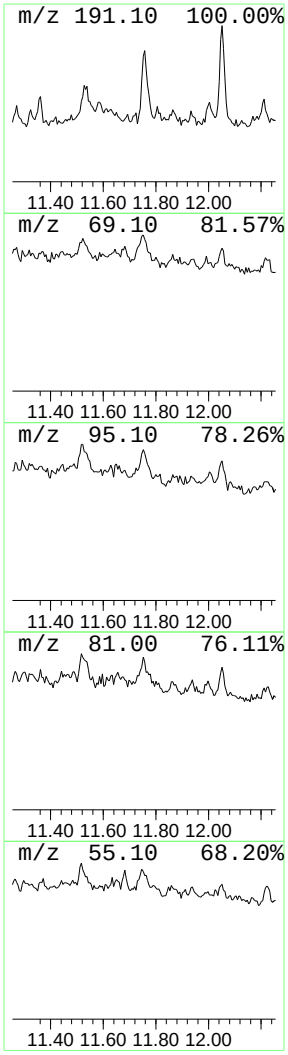
****

Peak Number 9 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.752	5.21 ppm	500727	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, 2,2-dimethyl-3-(3,7,12,...	426	C30H50O	007200-26-2	51
2	Butanoic acid, 3-methyl-, 3,7-di...	240	C15H28O2	068922-10-1	43
3	Ergost-25-ene-3,5,6-triol, (3.be...	432	C28H48O3	056143-28-3	35
4	Cyclopentaneethanol, .beta.,2,3-...	156	C10H20O	021721-18-6	27
5	28-Nor-17.alpha.(H)-hopane	398	C29H50	053584-60-4	27





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8014.D
Acq On : 01 Jul 2024 09:11 pm
Operator : karimam
Sample : jd91204-6
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

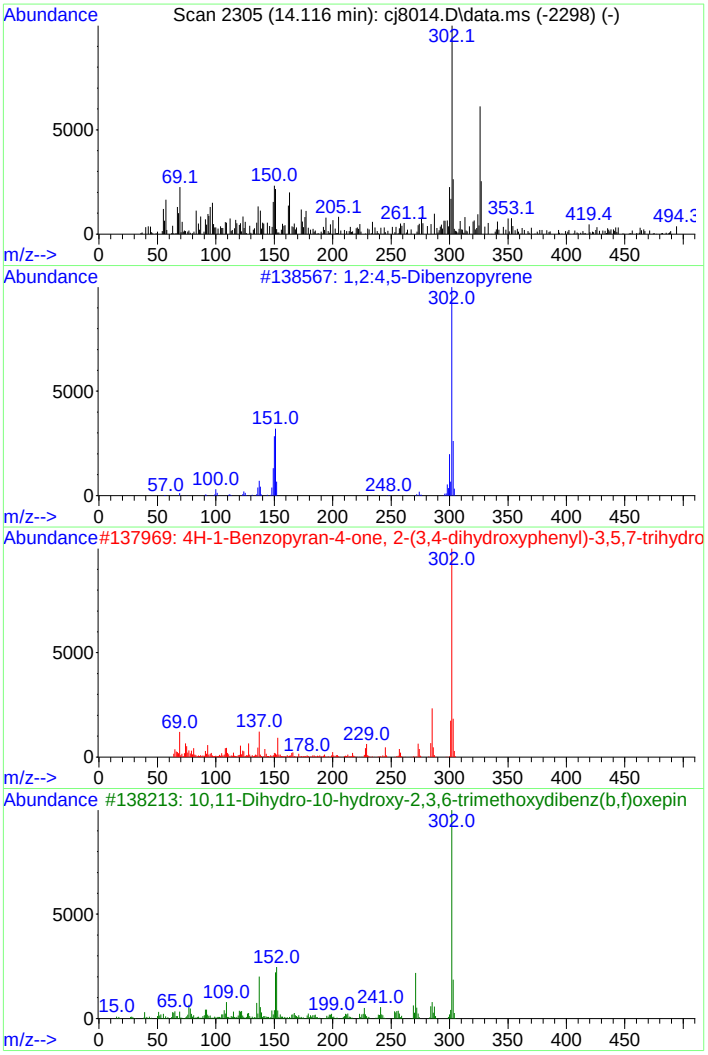
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

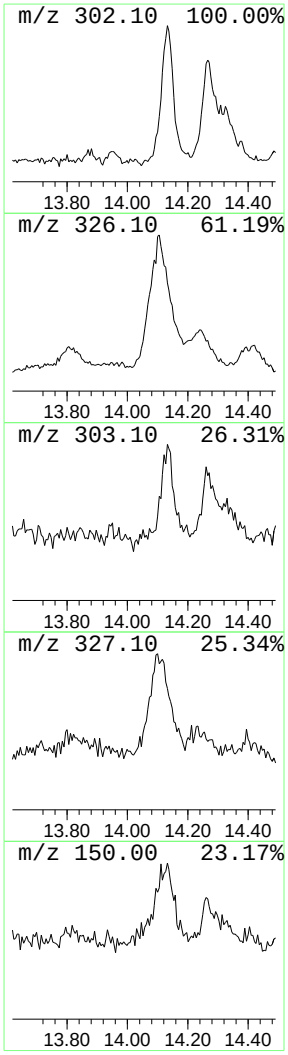
****

Peak Number 10 Dibenzopyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.116	4.40 ppm	423142	Perylene-d12	11.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	46
2	4H-1-Benzopyran-4-one, 2-(3,4-di...	302	C15H10O7	000117-39-5	46
3	10,11-Dihydro-10-hydroxy-2,3,6-t...	302	C17H18O5	019172-35-1	43
4	Indeno[1,2,3-fg]naphthacene	302	C24H14	000203-11-2	43
5	[2](1,5)Naphthaleno[2](2,6)pyrid...	302	C21H22N2	1000162-68-2	43





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8014.D
Acq On : 01 Jul 2024 09:11 pm
Operator : karimam
Sample : jd91204-6
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 30 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Unknown	4.579	8.3	ppm	487522	2	4.370	2353640	40.0
Unknown	4.798	5.9	ppm	446709	3	5.167	3040020	40.0
Unknown	4.943	20.2	ppm	1536690	3	5.167	3040020	40.0
Unknown PAH sub...	11.040	7.1	ppm	684167	11	11.286	3843750	40.0
Alkane	11.089	8.4	ppm	803174	11	11.286	3843750	40.0
Unknown	11.126	8.6	ppm	823525	11	11.286	3843750	40.0
Unknown	11.516	10.7	ppm	1030440	11	11.286	3843750	40.0
Unknown	11.752	5.2	ppm	500727	11	11.286	3843750	40.0
Dibenzopyrene	14.116	4.4	ppm	423142	11	11.286	3843750	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 07/02/24 05:10

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7 Inst : GCMSCJ
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ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 02 04:32:38 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

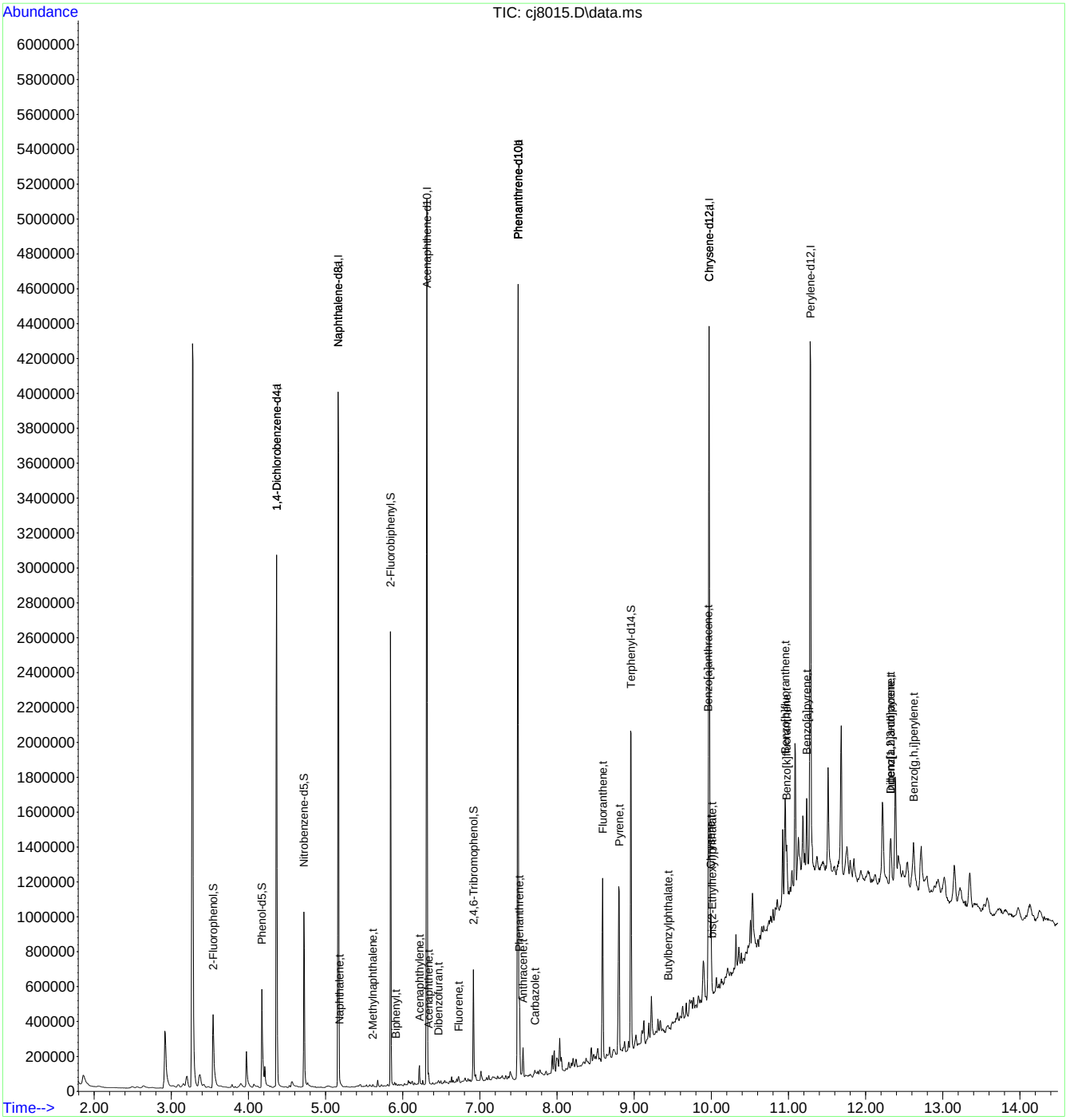
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.365	152	397396	40.00	ppm	0.00
24) Naphthalene-d8	5.162	136	1447836	40.00	ppm	0.00
46) Acenaphthene-d10	6.312	164	821615	40.00	ppm	0.00
69) Phenanthrene-d10	7.494	188	1518781	40.00	ppm	0.00
84) Chrysene-d12	9.971	240	1126384	40.00	ppm	0.01
93) Perylene-d12	11.286	264	1132360	40.00	ppm	0.02
103) 1,4-Dichlorobenzene-d4a	4.365	152	397396	40.00	ppm	0.00
105) Phenanthrene-d10a	7.494	188	1518781	40.00	ppm	0.00
107) Naphthalene-d8a	5.162	136	1447836	40.00	ppm	0.00
109) Phenanthrene-d10b	7.494	188	1518781	40.00	ppm	0.00
112) Chrysene-d12a	9.971	240	1126384	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.542	112	166812	14.60	ppm	0.02
Spiked Amount 50.000			Recovery = 29.20%			
8) Phenol-d5	4.173	99	222449	15.10	ppm	0.02
Spiked Amount 50.000			Recovery = 30.20%			
25) Nitrobenzene-d5	4.718	82	284931	19.22	ppm	0.00
Spiked Amount 50.000			Recovery = 38.44%			
51) 2-Fluorobiphenyl	5.841	172	585151	22.63	ppm	0.00
Spiked Amount 50.000			Recovery = 45.26%			
74) 2,4,6-Tribromophenol	6.917	330	60565	18.19	ppm	0.00
Spiked Amount 50.000			Recovery = 36.38%			
87) Terphenyl-d14	8.960	244	613674	22.05	ppm	0.01
Spiked Amount 50.000			Recovery = 44.10%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
38) Naphthalene	5.178	128	5801	0.1673	ppm	94
44) 2-Methylnaphthalene	5.611	141	2624	0.1276	ppm	95
53) Biphenyl	5.911	154	2680	0.0949	ppm	95
56) Acenaphthylene	6.216	152	42304	1.3275	ppm	98
59) Acenaphthene	6.334	153	8657	0.3820	ppm	93
62) Dibenzofuran	6.462	168	4347	0.1382	ppm	94
66) Fluorene	6.724	166	11194m	0.4506	ppm	
78) Phenanthrene	7.510	178	149823	4.0818	ppm	99
79) Anthracene	7.558	178	52308	1.4233	ppm	97
80) Carbazole	7.714	167	11229	0.3279	ppm	99
82) Fluoranthene	8.591	202	383873	9.6603	ppm	100
86) Pyrene	8.805	202	389116	10.1579	ppm	97
88) Butylbenzylphthalate	9.441	149	3308	0.1935	ppm #	61
89) Benzo[a]anthracene	9.960	228	188701	5.2104	ppm	94
91) Chrysene	9.992	228	173374	5.1887	ppm	95
92) bis(2-Ethylhexyl)phtha...	10.008	149	7041	0.2781	ppm	74
95) Benzo[b]fluoranthene	10.955	252	260902m	7.6271	ppm	
96) Benzo[k]fluoranthene	10.976	252	66524m	2.1612	ppm	
97) Benzo[a]pyrene	11.238	252	174696	6.1692	ppm	99
98) Indeno[1,2,3-cd]pyrene	12.324	276	131939	3.8541	ppm	87
100) Dibenz[a,h]anthracene	12.324	278	35051	1.2814	ppm	95
102) Benzo[g,h,i]perylene	12.624	276	136920	5.1468	ppm	100

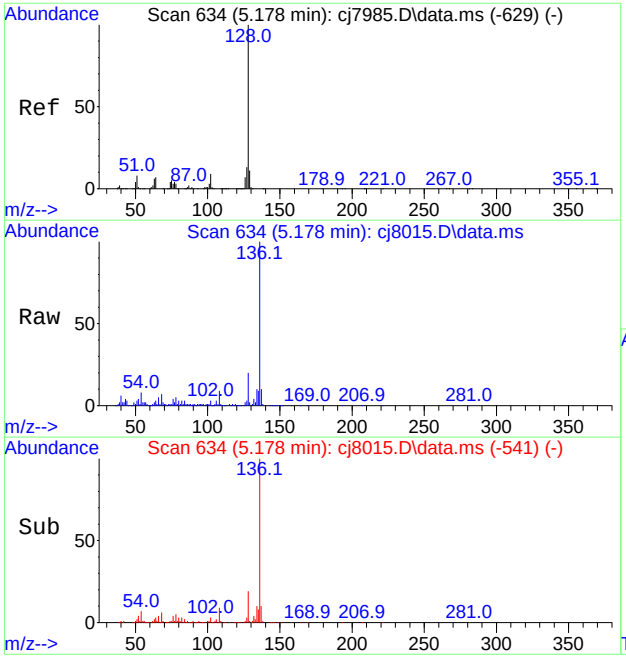
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7 Inst : GCMSCJ
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 02 04:32:38 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

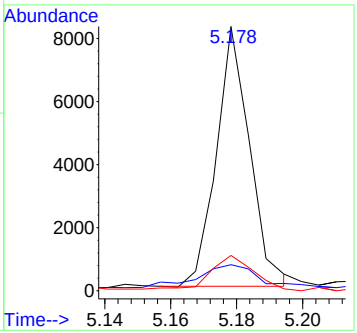


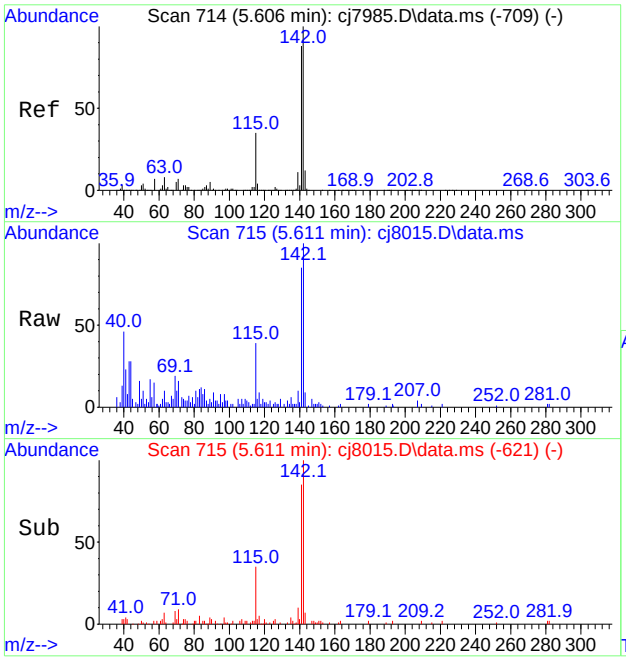


#38
Naphthalene
Concen: 0.1673 ppm
RT: 5.178 min Scan# 634
Delta R.T. 0.000 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:128 Resp: 5801

Ion	Ratio	Lower	Upper
128	100		
129	7.2	0.0	41.3
127	12.9	0.0	43.5

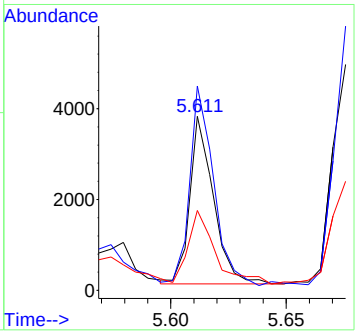


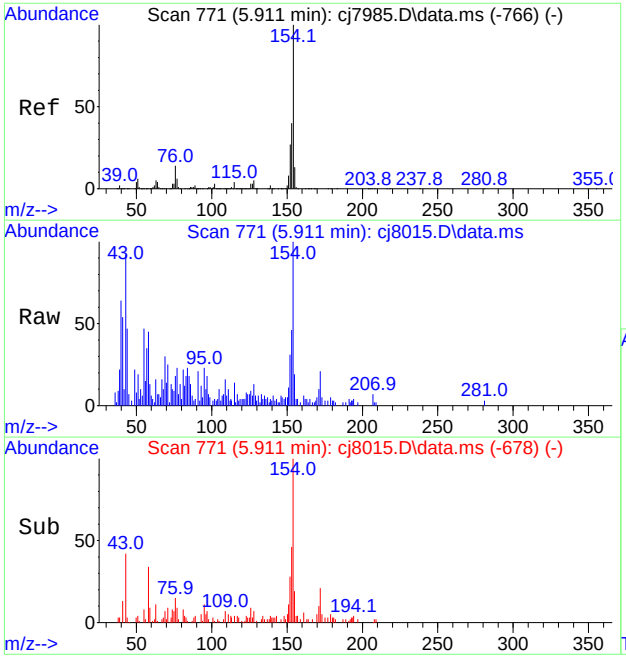


#44
2-Methylnaphthalene
Concen: 0.1276 ppm
RT: 5.611 min Scan# 715
Delta R.T. 0.005 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:141 Resp: 2624

Ion	Ratio	Lower	Upper
141	100		
142	118.7	83.7	143.7
115	42.1	9.3	69.3

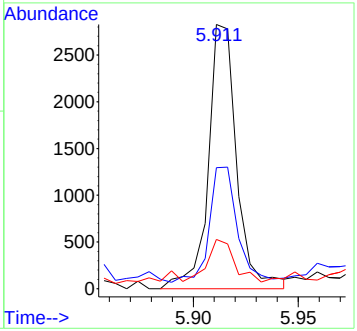


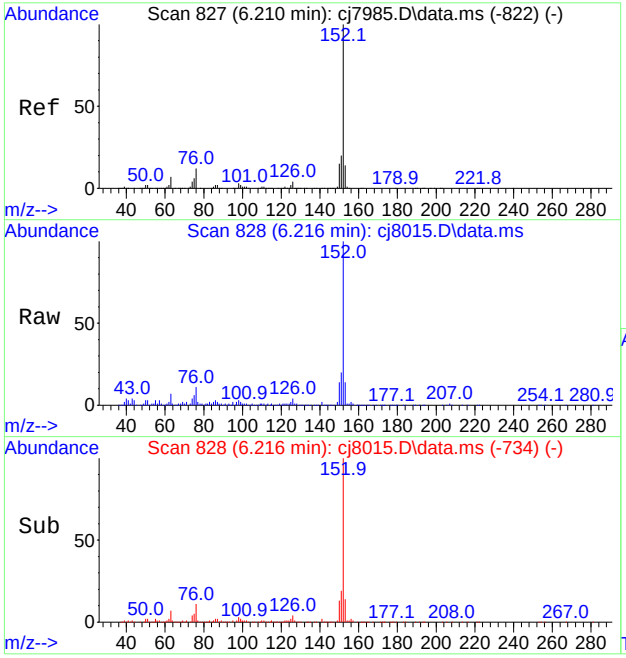


#53
Biphenyl
Concen: 0.0949 ppm
RT: 5.911 min Scan# 771
Delta R.T. 0.000 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:154 Resp: 2680

Ion	Ratio	Lower	Upper
154	100		
153	42.8	10.3	70.3
155	15.6	0.0	42.9

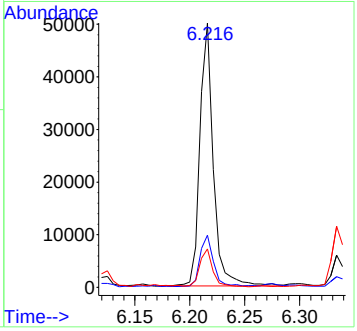


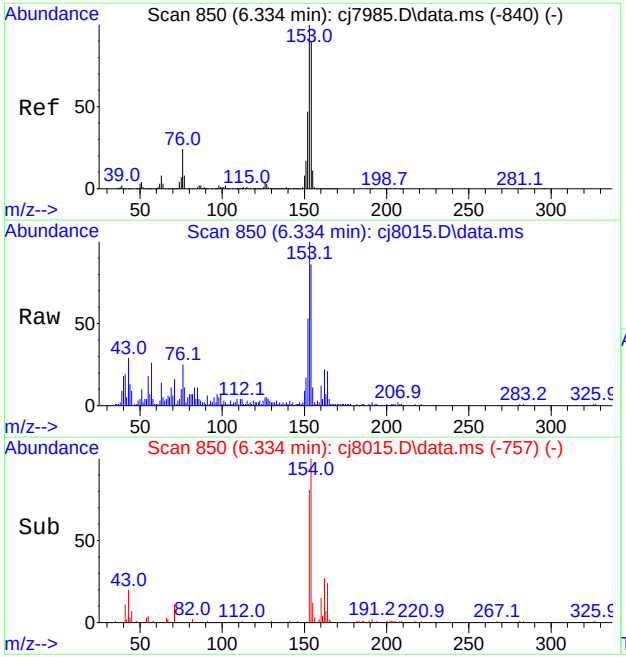


#56
Acenaphthylene
Concen: 1.3275 ppm
RT: 6.216 min Scan# 828
Delta R.T. 0.005 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:152 Resp: 42304

Ion	Ratio	Lower	Upper
152	100		
151	19.4	0.0	50.2
153	14.1	0.0	43.5

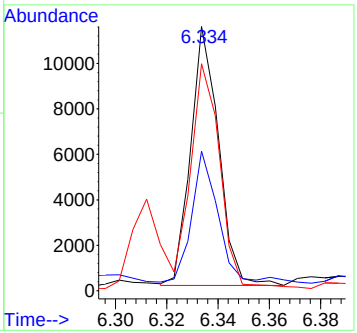


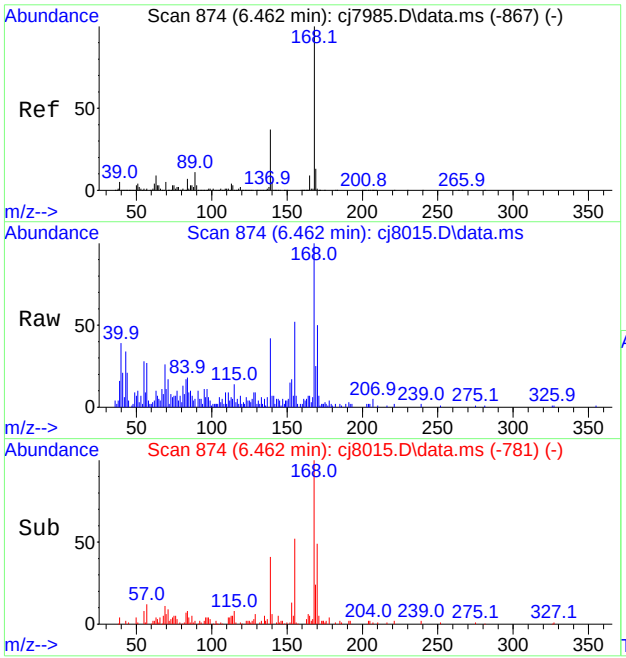


#59
Acenaphthene
Concen: 0.3820 ppm
RT: 6.334 min Scan# 850
Delta R.T. 0.000 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:153 Resp: 8657

Ion	Ratio	Lower	Upper
153	100		
152	50.2	16.9	76.9
154	78.1	56.2	116.2

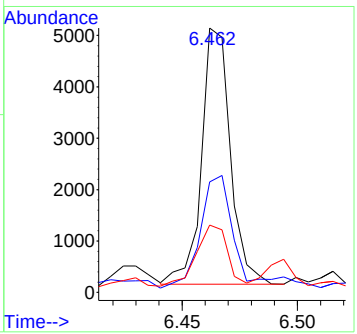


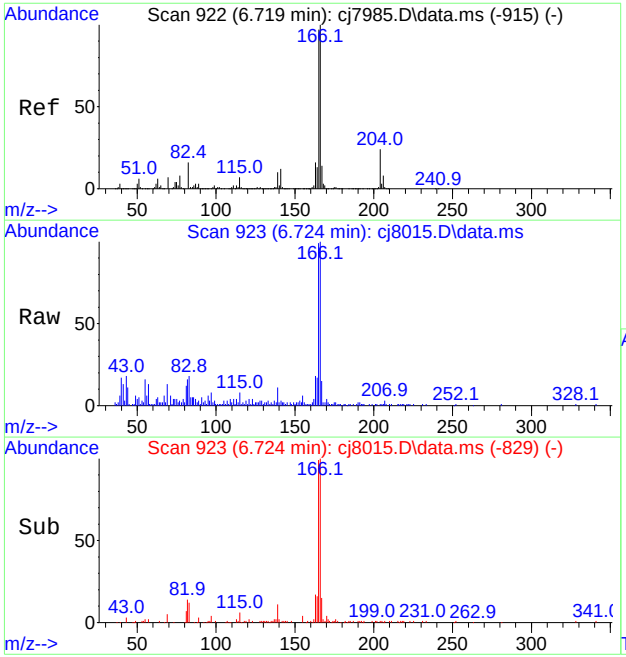


#62
Dibenzofuran
Concen: 0.1382 ppm
RT: 6.462 min Scan# 874
Delta R.T. 0.000 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:168 Resp: 4347

Ion	Ratio	Lower	Upper
168	100		
139	39.4	7.3	67.3
169	18.6	0.0	43.4

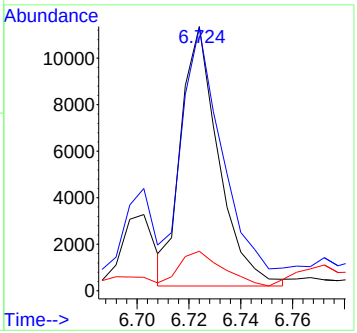


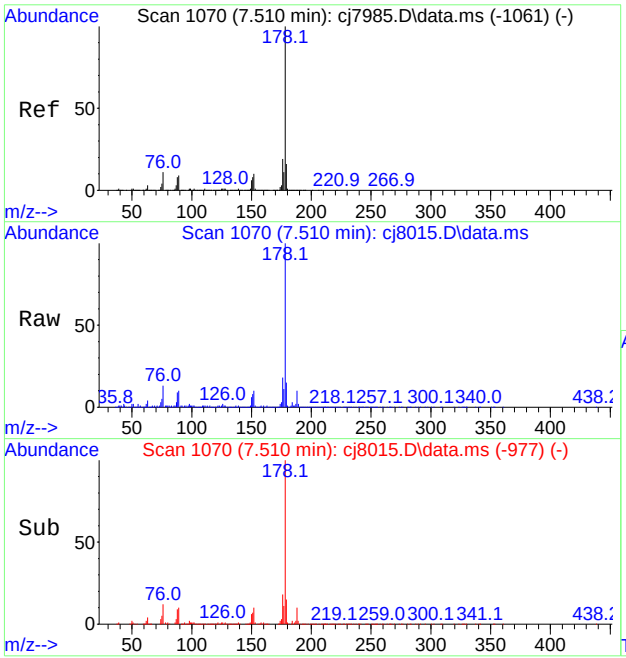


#66
Fluorene
Concen: 0.4506 ppm m
RT: 6.724 min Scan# 923
Delta R.T. 0.005 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:166 Resp: 11194

Ion	Ratio	Lower	Upper
166	100		
165	99.4	67.2	127.2
167	15.0	0.0	43.8

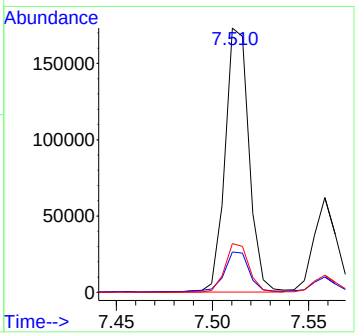


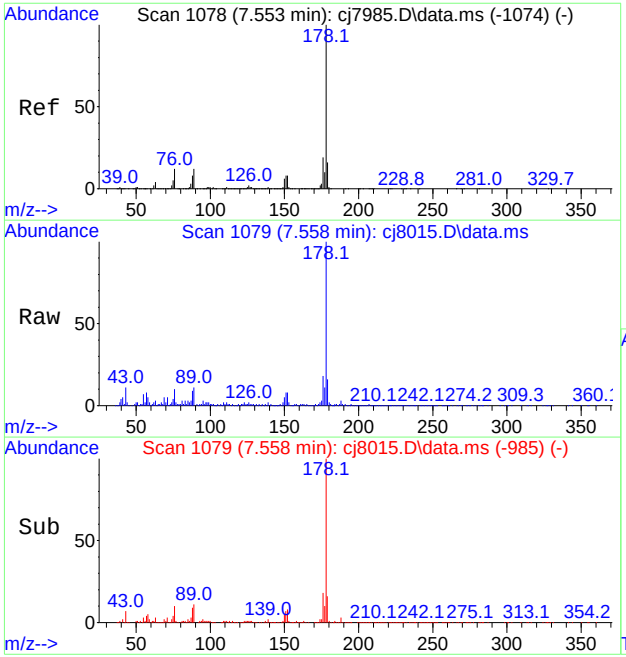


#78
Phenanthrene
Concen: 4.0818 ppm
RT: 7.510 min Scan# 1070
Delta R.T. 0.000 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:178 Resp: 149823

Ion	Ratio	Lower	Upper
178	100		
179	15.0	0.0	45.5
176	18.4	0.0	48.7

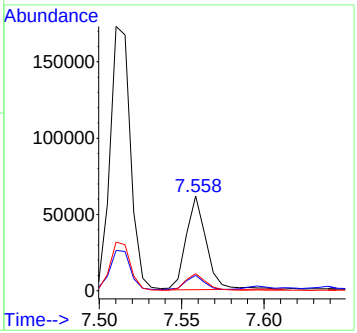


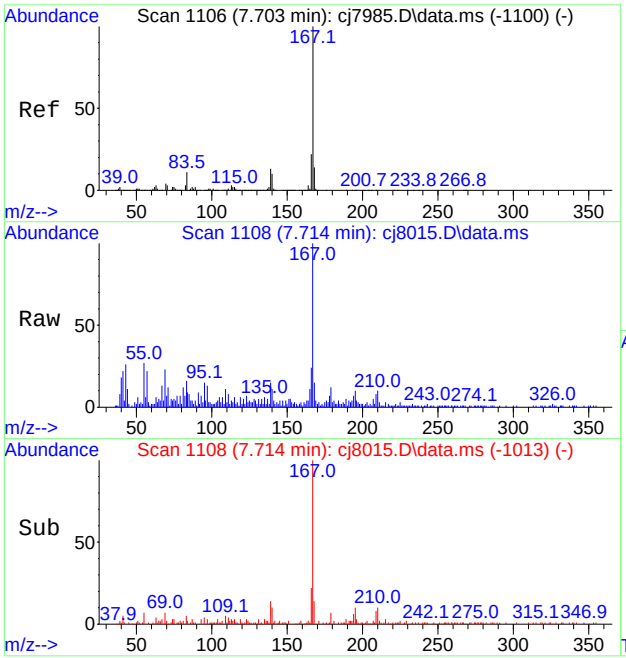


#79
Anthracene
Concen: 1.4233 ppm
RT: 7.558 min Scan# 1079
Delta R.T. 0.005 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:178 Resp: 52308

Ion	Ratio	Lower	Upper
178	100		
179	14.3	0.0	45.9
176	18.0	0.0	48.8

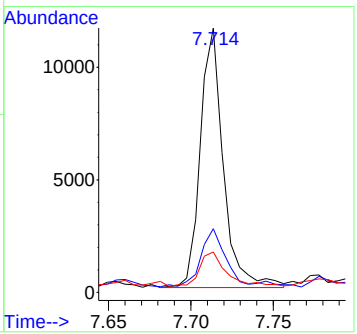


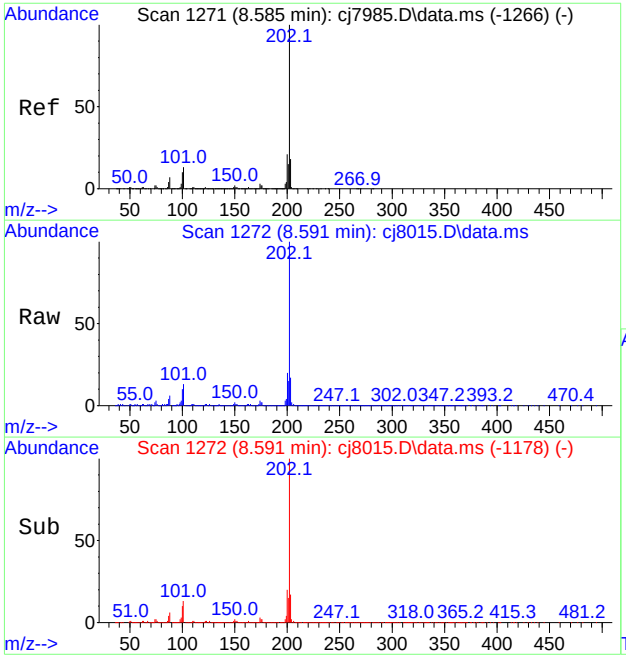


#80
Carbazole
Concen: 0.3279 ppm
RT: 7.714 min Scan# 1108
Delta R.T. 0.011 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:167 Resp: 11229

Ion	Ratio	Lower	Upper
167	100		
166	22.1	0.0	51.7
139	12.2	0.0	42.8

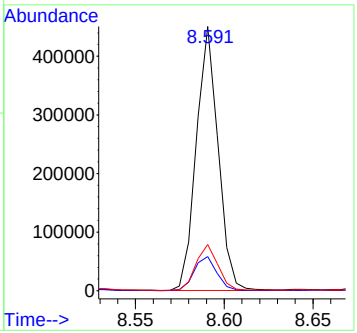


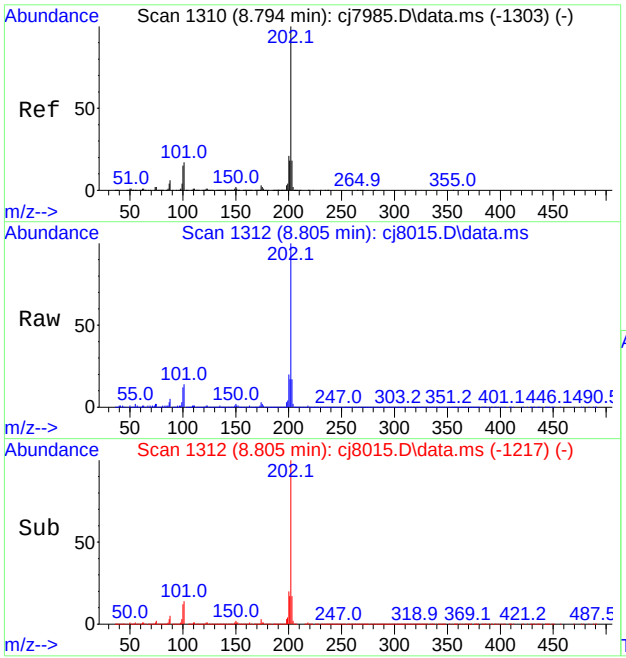


#82
Fluoranthene
Concen: 9.6603 ppm
RT: 8.591 min Scan# 1272
Delta R.T. 0.005 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:202 Resp: 383873

Ion	Ratio	Lower	Upper
202	100		
101	12.9	0.0	42.9
203	17.3	0.0	47.5

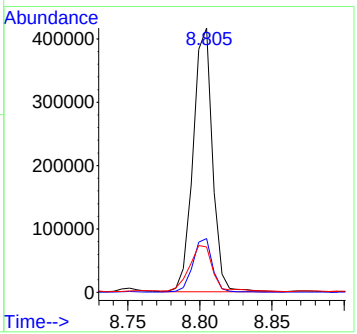


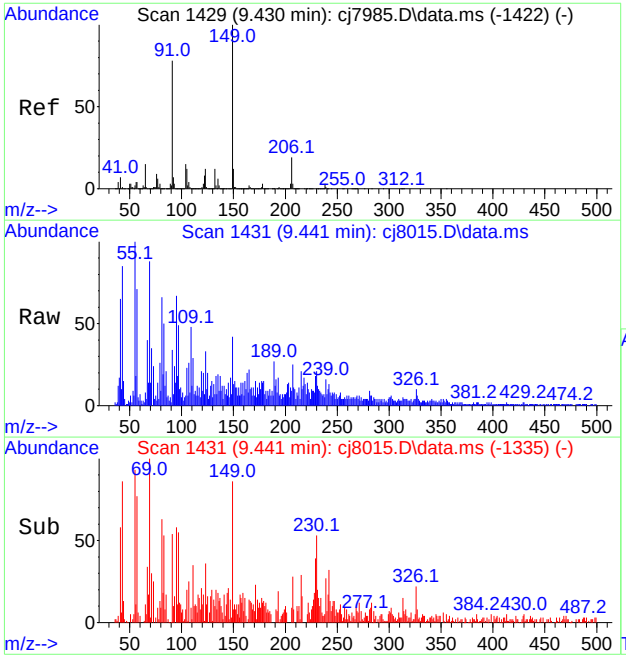


#86
Pyrene
Concen: 10.1579 ppm
RT: 8.805 min Scan# 1312
Delta R.T. 0.011 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:202 Resp: 389116

Ion	Ratio	Lower	Upper
202	100		
200	20.3	0.0	51.0
203	16.8	0.0	48.5

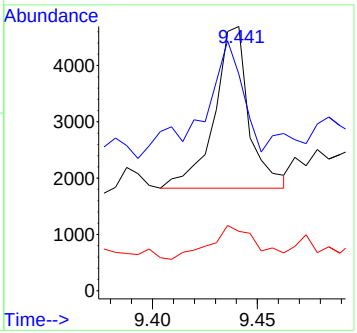


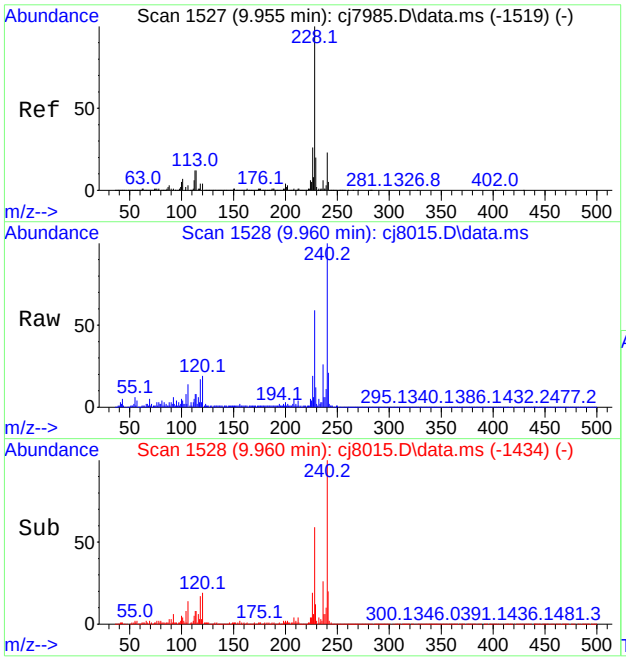


#88
Butylbenzylphthalate
Concen: 0.1935 ppm
RT: 9.441 min Scan# 1431
Delta R.T. 0.011 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:149 Resp: 3308

Ion	Ratio	Lower	Upper
149	100		
91	37.5	47.5	107.5#
206	15.3	0.0	49.2

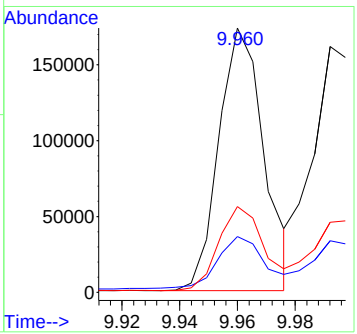


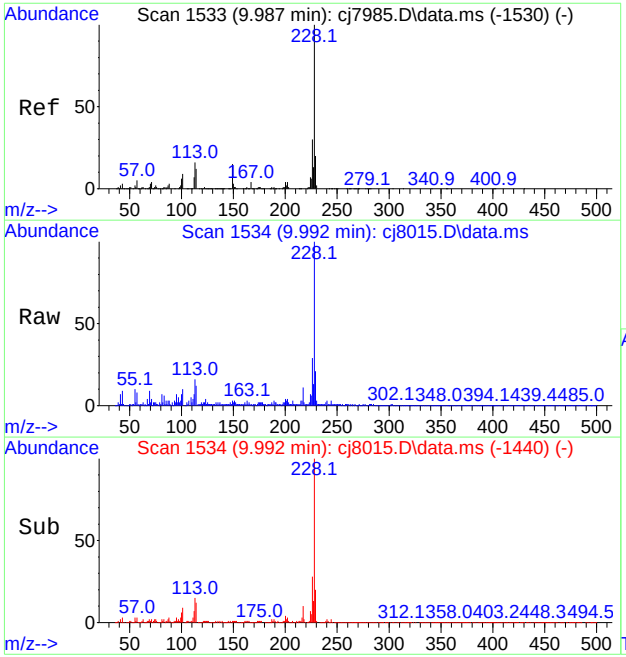


#89
Benzo[a]anthracene
Concen: 5.2104 ppm
RT: 9.960 min Scan# 1528
Delta R.T. 0.005 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:228 Resp: 188701

Ion	Ratio	Lower	Upper
228	100		
229	19.3	0.0	49.9
226	31.5	0.0	56.5

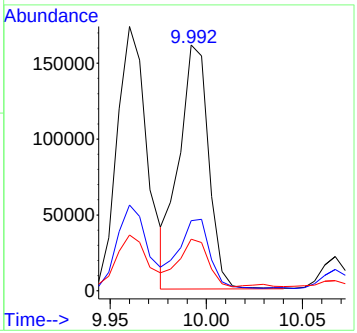


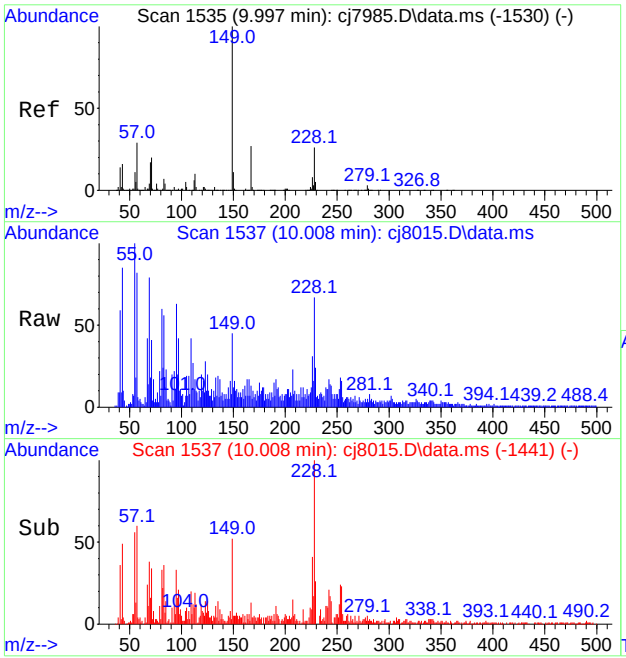


#91
Chrysene
Concen: 5.1887 ppm
RT: 9.992 min Scan# 1534
Delta R.T. 0.005 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:228 Resp: 173374

Ion	Ratio	Lower	Upper
228	100		
226	26.7	0.3	60.3
229	19.1	0.0	50.3

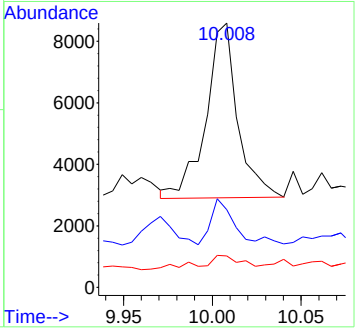


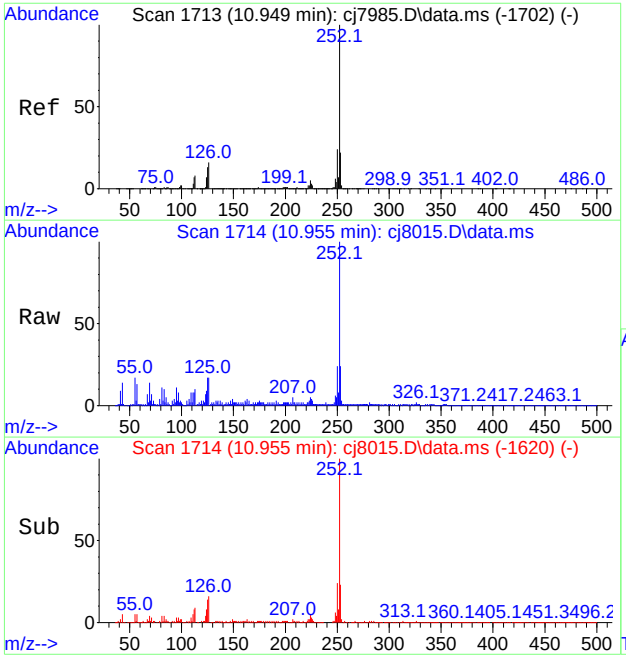


#92
bis(2-Ethylhexyl)phthalate
Concen: 0.2781 ppm
RT: 10.008 min Scan# 1537
Delta R.T. 0.011 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:149 Resp: 7041

Ion	Ratio	Lower	Upper
149	100		
167	12.0	0.0	56.9
279	4.4	0.0	33.4

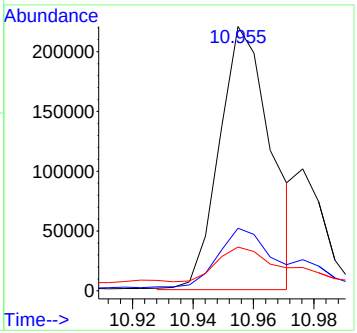


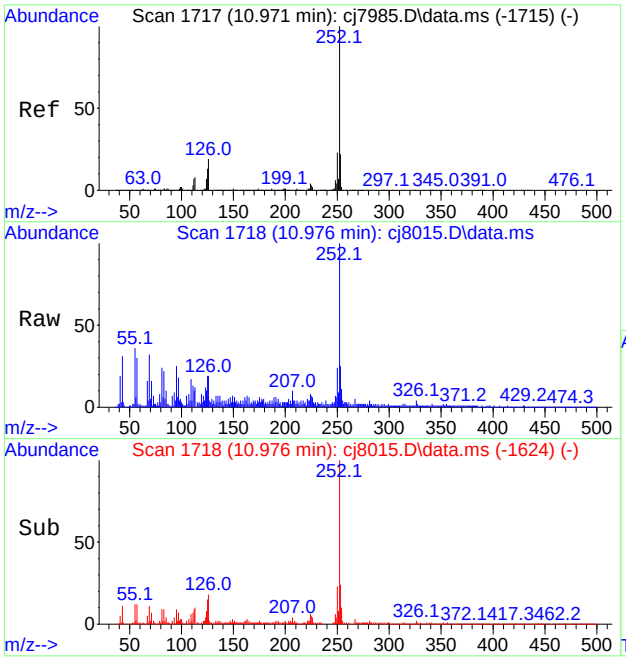


#95
Benzo[b]fluoranthene
Concen: 7.6271 ppm m
RT: 10.955 min Scan# 1714
Delta R.T. 0.005 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:252 Resp: 260902

Ion	Ratio	Lower	Upper
252	100		
253	23.6	0.0	52.5
125	16.5	0.0	42.4

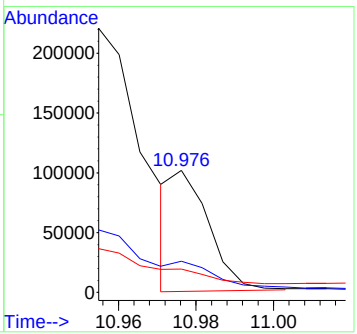


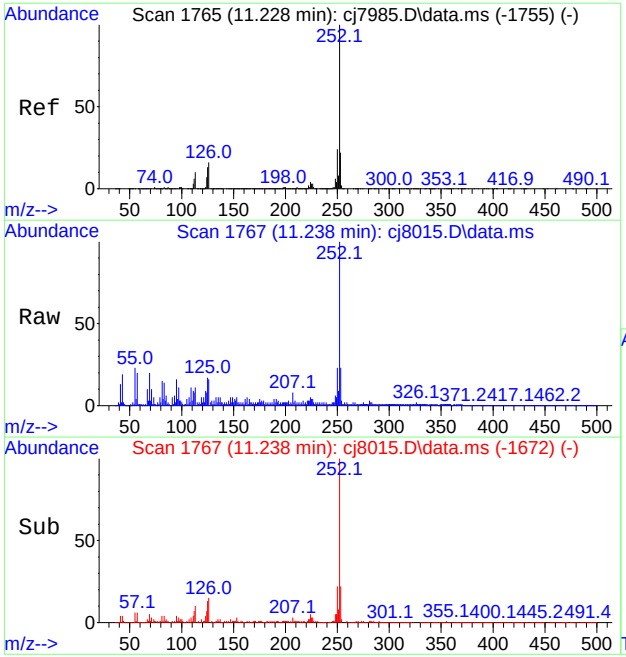


#96
Benzo[k]fluoranthene
Concen: 2.1612 ppm m
RT: 10.976 min Scan# 1718
Delta R.T. 0.005 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:252 Resp: 66524

Ion	Ratio	Lower	Upper
252	100		
253	25.5	0.0	51.7
125	19.1	0.0	43.5

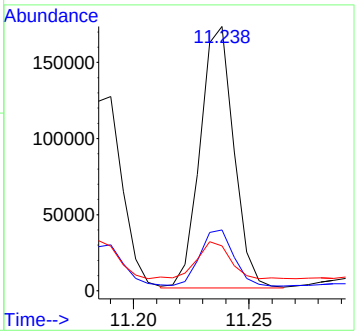


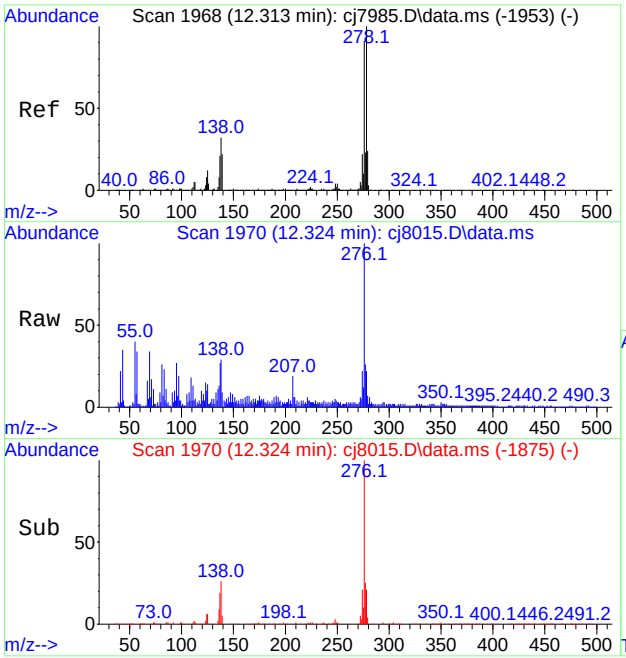


#97
Benzo[a]pyrene
Concen: 6.1692 ppm
RT: 11.238 min Scan# 1767
Delta R.T. 0.011 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:252 Resp: 174696

Ion	Ratio	Lower	Upper
252	100		
253	21.3	0.0	52.1
125	12.3	0.0	42.5

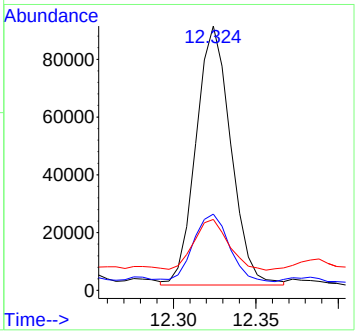


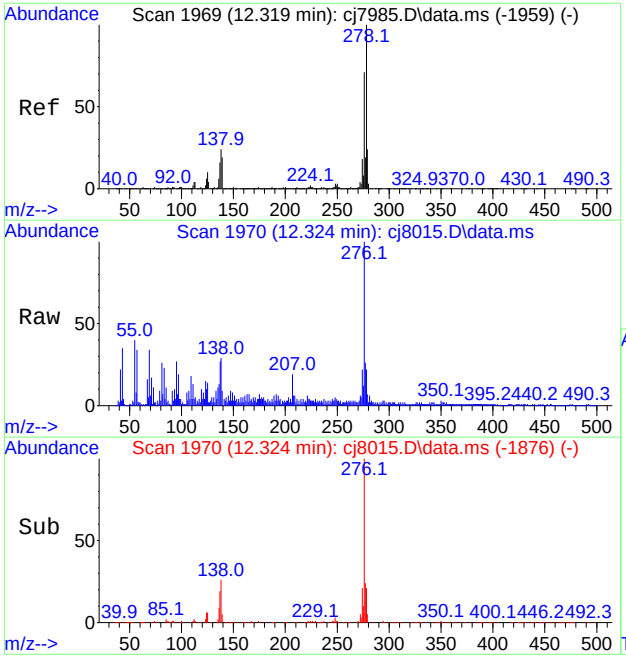


#98
Indeno[1,2,3-cd]pyrene
Concen: 3.8541 ppm
RT: 12.324 min Scan# 1970
Delta R.T. 0.011 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:276 Resp: 131939

Ion	Ratio	Lower	Upper
276	100		
138	25.6	5.2	65.2
137	19.0	0.0	53.3

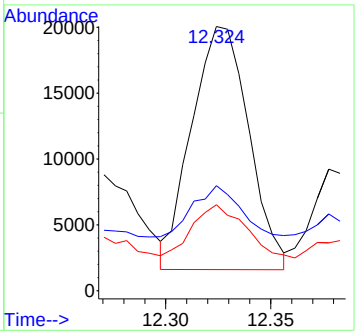


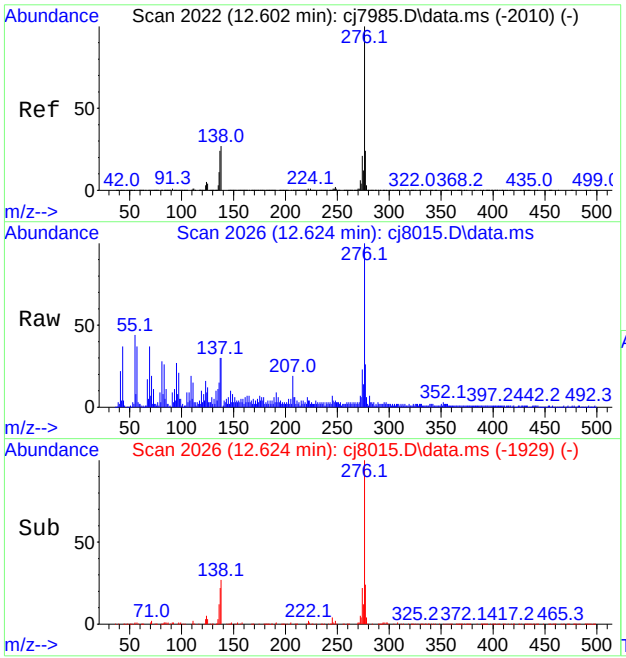


#100
Dibenz[a,h]anthracene
Concen: 1.2814 ppm
RT: 12.324 min Scan# 1970
Delta R.T. 0.005 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:278 Resp: 35051

Ion	Ratio	Lower	Upper
278	100		
139	22.8	0.0	48.9
279	22.8	0.0	53.7

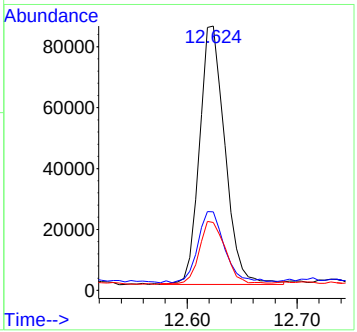




#102
Benzo[g,h,i]perylene
Concen: 5.1468 ppm
RT: 12.624 min Scan# 2026
Delta R.T. 0.021 min
Lab File: cj8015.D
Acq: 01 Jul 2024 09:30 pm

Tgt Ion:276 Resp: 136920

Ion	Ratio	Lower	Upper
276	100		
138	27.1	0.0	57.0
277	23.4	0.0	53.6



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj8015.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.173	441	446	452	rBV	562944	580913	10.22%	0.680%
2	4.210	452	453	460	rVV	116252	102752	1.81%	0.120%
3	4.365	473	482	501	rBV	3052568	2363995	41.59%	2.768%
4	4.718	541	548	555	rBV	1004186	793816	13.97%	0.929%
5	5.162	626	631	644	rBV	3985787	3046685	53.60%	3.567%
6	5.841	754	758	765	rBV	2604376	1715314	30.18%	2.008%
7	6.216	820	828	834	rBV	109786	102827	1.81%	0.120%
8	6.312	840	846	857	rBV	5077236	3625717	63.79%	4.245%
9	6.917	953	959	963	rBV	643648	552996	9.73%	0.647%
10	7.393	1045	1048	1058	rVB3	49459	83087	1.46%	0.097%
11	7.494	1058	1067	1074	rBV	4561354	4166902	73.31%	4.878%
12	7.558	1074	1079	1083	rVB	167559	145954	2.57%	0.171%
13	7.714	1102	1108	1113	rBV	40805	80640	1.42%	0.094%
14	7.938	1139	1150	1152	rBV	114254	126780	2.23%	0.148%
15	7.965	1152	1155	1158	rVB	120237	100376	1.77%	0.118%
16	7.997	1158	1161	1165	rBV3	79380	119088	2.10%	0.139%
17	8.034	1165	1168	1171	rBV	163120	138488	2.44%	0.162%
18	8.446	1240	1245	1247	rBV	95300	98719	1.74%	0.116%
19	8.527	1256	1260	1264	rBV3	61584	66750	1.17%	0.078%
20	8.591	1268	1272	1279	rBV	1051539	945733	16.64%	1.107%
21	8.682	1284	1289	1293	rVB	61590	67888	1.19%	0.079%
22	8.735	1293	1299	1306	rBV4	49362	117549	2.07%	0.138%
23	8.799	1306	1311	1320	rBV	962600	1036306	18.23%	1.213%
24	8.874	1320	1325	1328	rVB2	61189	68403	1.20%	0.080%
25	8.954	1330	1340	1347	rBV	1837141	1839001	32.36%	2.153%
26	9.024	1347	1353	1356	rBV2	78773	118506	2.09%	0.139%
27	9.126	1362	1372	1376	rBV2	135058	228873	4.03%	0.268%
28	9.190	1376	1384	1387	rBV	120398	161951	2.85%	0.190%
29	9.222	1387	1390	1396	rBV2	237077	245563	4.32%	0.287%
30	9.441	1424	1431	1434	rBV7	41531	96030	1.69%	0.112%
31	9.564	1444	1454	1457	rBV4	59288	100876	1.77%	0.118%
32	9.677	1471	1475	1479	rBV2	83978	84590	1.49%	0.099%
33	9.719	1479	1483	1485	rBV	94746	125107	2.20%	0.146%
34	9.832	1500	1504	1507	rBV	69096	89100	1.57%	0.104%
35	9.896	1511	1516	1524	rVV3	244889	432877	7.62%	0.507%
36	9.971	1524	1530	1540	rVV2	3869326	4417753	77.73%	5.172%
37	10.067	1542	1548	1552	rVV3	112226	194580	3.42%	0.228%
38	10.099	1552	1554	1556	rVV2	67169	68851	1.21%	0.081%
39	10.131	1556	1560	1564	rVV4	90017	169850	2.99%	0.199%
40	10.211	1564	1575	1579	rVV4	138428	450720	7.93%	0.528%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	10.249	1579	1582	1584	rVV3	102232	147948	2.60%	0.173%
42	10.318	1584	1595	1598	rVV	307585	617215	10.86%	0.723%
43	10.356	1598	1602	1605	rVV	223156	361935	6.37%	0.424%
44	10.388	1605	1608	1610	rVV	182369	233486	4.11%	0.273%
45	10.415	1610	1613	1616	rVV4	147467	265100	4.66%	0.310%
46	10.447	1616	1619	1622	rVV5	175162	318807	5.61%	0.373%
47	10.473	1622	1624	1625	rVV	206055	187932	3.31%	0.220%
48	10.506	1626	1630	1632	rVV2	345198	503987	8.87%	0.590%
49	10.532	1632	1635	1645	rVV3	489150	1218284	21.44%	1.426%
50	10.602	1645	1648	1650	rVV3	212962	305767	5.38%	0.358%
51	10.629	1650	1653	1655	rVV3	233519	344864	6.07%	0.404%
52	10.655	1655	1658	1661	rVV3	275803	488169	8.59%	0.572%
53	10.677	1661	1662	1666	rVV4	272508	412243	7.25%	0.483%
54	10.746	1670	1675	1676	rVV5	292409	522354	9.19%	0.612%
55	10.768	1676	1679	1682	rVV5	311158	556292	9.79%	0.651%
56	10.800	1682	1685	1687	rVV2	343784	488927	8.60%	0.572%
57	10.853	1687	1695	1700	rVV5	389372	1424987	25.07%	1.668%
58	10.923	1700	1708	1711	rVV	775672	1600449	28.16%	1.874%
59	10.955	1711	1714	1724	rVV	940665	2496787	43.93%	2.923%
60	11.019	1724	1726	1728	rVV2	423744	519347	9.14%	0.608%
61	11.046	1728	1731	1734	rVV	512489	879974	15.48%	1.030%
62	11.083	1734	1738	1742	rVV	1231618	1867719	32.86%	2.187%
63	11.126	1742	1746	1753	rVV4	682541	2013701	35.43%	2.357%
64	11.185	1753	1757	1761	rVV	794413	1578094	27.77%	1.848%
65	11.212	1761	1762	1763	rVV	574274	347715	6.12%	0.407%
66	11.233	1763	1766	1770	rVV	884039	1484504	26.12%	1.738%
67	11.281	1770	1775	1786	rVV	3487695	5683598	100.00%	6.654%
68	11.367	1786	1791	1796	rVV6	522557	1546123	27.20%	1.810%
69	11.447	1799	1806	1811	rVV10	477672	1759245	30.95%	2.060%
70	11.511	1811	1818	1828	rVV2	996668	2969129	52.24%	3.476%
71	11.597	1830	1834	1838	rVV5	417260	1014370	17.85%	1.188%
72	11.682	1838	1850	1856	rVV	1203487	3151389	55.45%	3.689%
73	11.757	1856	1864	1869	rVV5	494407	1729931	30.44%	2.025%
74	11.800	1869	1872	1877	rVV7	406755	917527	16.14%	1.074%
75	11.848	1877	1881	1889	rVV5	402094	1270538	22.35%	1.487%
76	11.939	1893	1898	1907	rVV5	313741	1279366	22.51%	1.498%
77	12.030	1907	1915	1922	rVV8	294147	1304741	22.96%	1.527%
78	12.078	1922	1924	1925	rVV2	242157	225663	3.97%	0.264%
79	12.121	1928	1932	1938	rVV9	253584	743177	13.08%	0.870%
80	12.217	1939	1950	1965	rVV3	638751	2372110	41.74%	2.777%
81	12.324	1965	1970	1976	rVV	415596	973525	17.13%	1.140%
82	12.383	1976	1981	1986	rVV2	756408	1378966	24.26%	1.614%
83	12.420	1986	1988	1996	rVV2	293341	782785	13.77%	0.916%
84	12.479	1996	1999	2003	rVV2	199064	412904	7.26%	0.483%
85	12.543	2005	2011	2017	rVV5	232552	652135	11.47%	0.763%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.618	2017	2025	2036	rVV	323565	986139	17.35%	1.154%
87	12.720	2038	2044	2052	rVV5	281797	699944	12.32%	0.819%
88	12.795	2054	2058	2065	rVB2	96415	207528	3.65%	0.243%
89	12.891	2072	2076	2079	rBV5	35377	66793	1.18%	0.078%
90	12.939	2079	2085	2091	rVV10	90740	241153	4.24%	0.282%
91	13.019	2092	2100	2112	rVB10	150395	462850	8.14%	0.542%
92	13.148	2117	2124	2131	rVB	207516	388762	6.84%	0.455%
93	13.223	2131	2138	2151	rVB	104211	315289	5.55%	0.369%
94	13.351	2155	2162	2168	rVB3	198536	381084	6.70%	0.446%
95	13.538	2190	2197	2199	rBV8	40697	79316	1.40%	0.093%
96	13.576	2199	2204	2218	rVB9	103390	282423	4.97%	0.331%
97	13.816	2242	2249	2256	rVB9	33335	85597	1.51%	0.100%
98	13.977	2273	2279	2289	rVB9	72889	200307	3.52%	0.235%
99	14.127	2291	2307	2321	rVB5	97992	400825	7.05%	0.469%
100	14.250	2322	2330	2340	rVB5	61597	193326	3.40%	0.226%

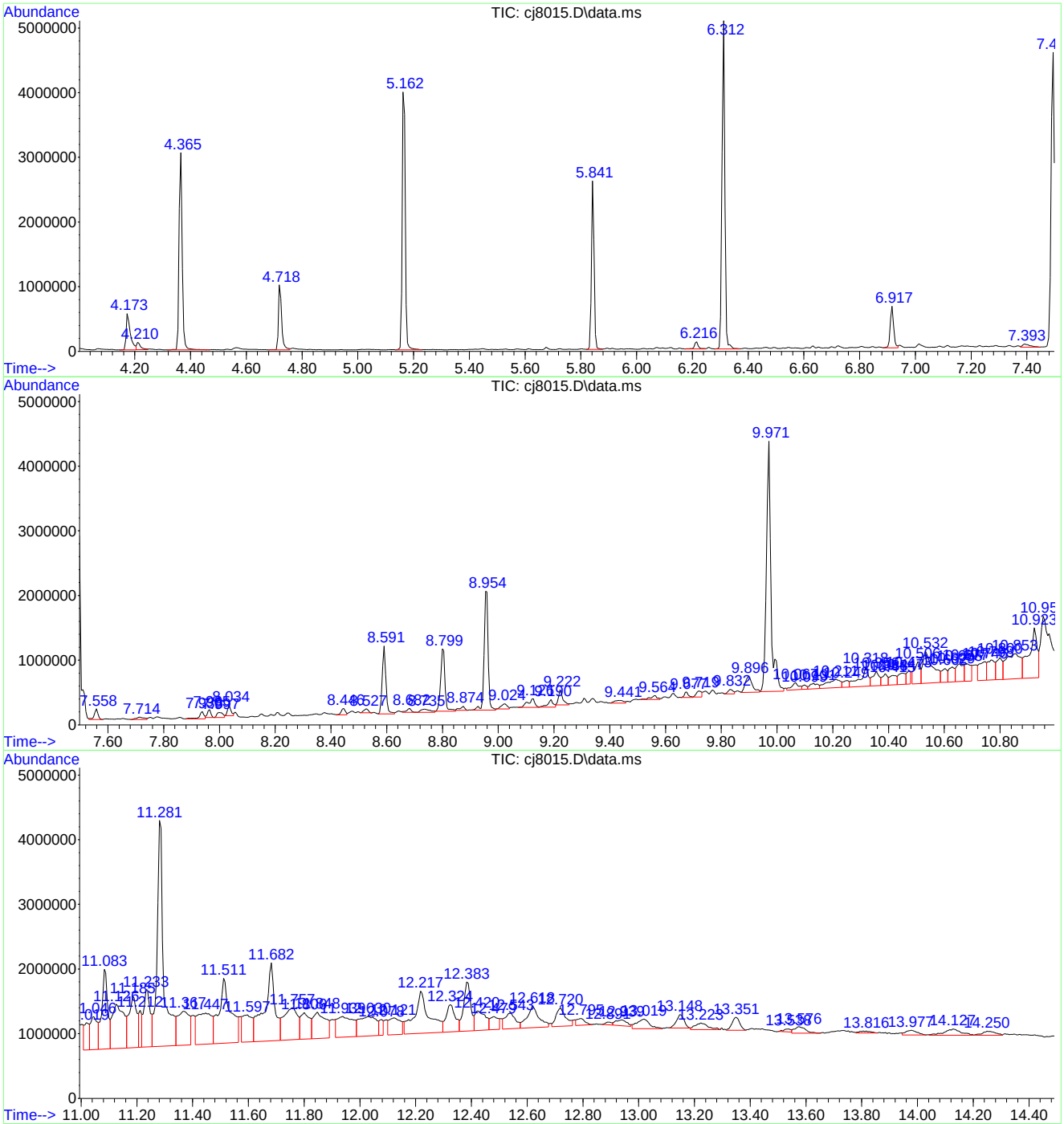
Sum of corrected areas: 85417051

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

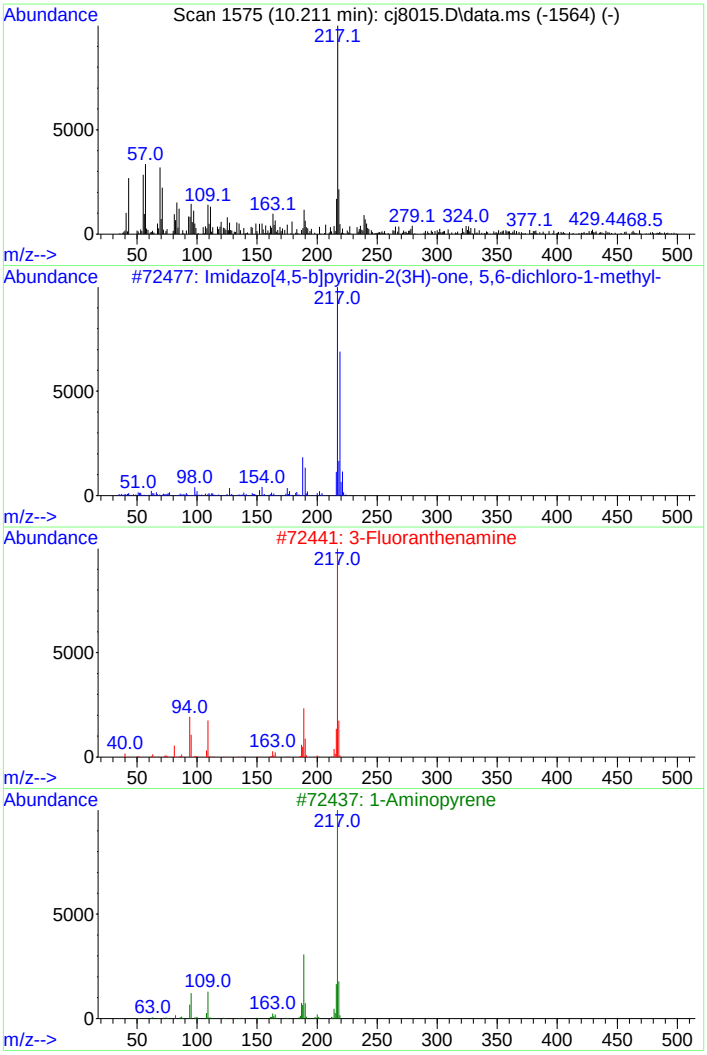
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

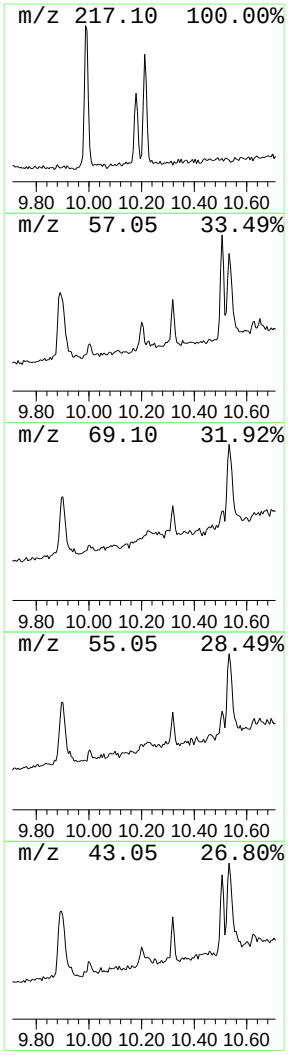
****

Peak Number 1 Unknown Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.211	4.08 ppm	450720	Chrysene-d12a	9.971

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Imidazo[4,5-b]pyridin-2(3H)-one,...	217	C7H5Cl2N3O	309731-67-7	87
2	3-Fluoranthenamine	217	C16H11N	002693-46-1	87
3	1-Aminopyrene	217	C16H11N	001606-67-3	83
4	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	80
5	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	76





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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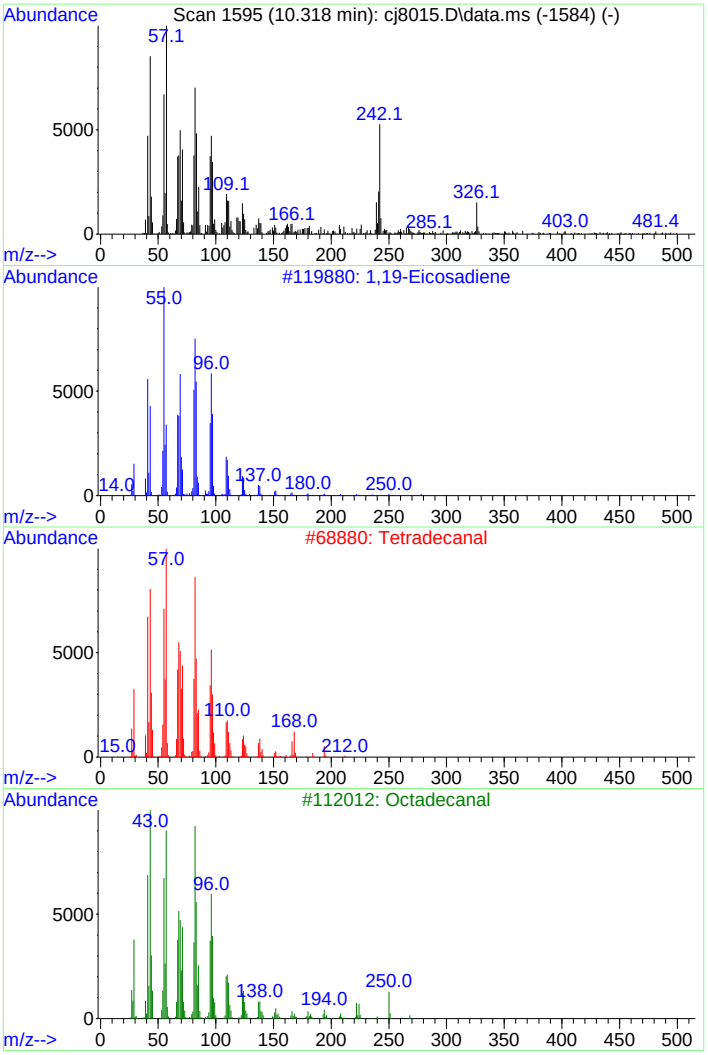
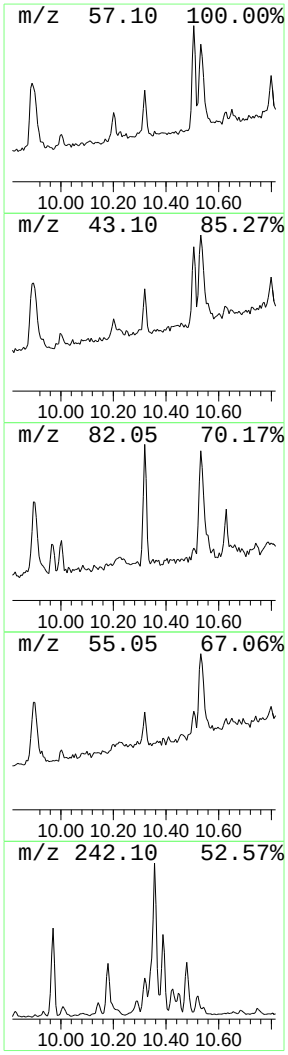
Peak Number 2 Unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.318	5.59 ppm	617215	Chrysene-d12a	9.971

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,19-Eicosadiene	278	C20H38	014811-95-1	91
2	Tetradecanal	212	C14H28O	000124-25-4	78
3	Octadecanal	268	C18H36O	000638-66-4	68
4	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	64
5	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	64





Library Search Compound Report

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Data File : cj8015.D
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Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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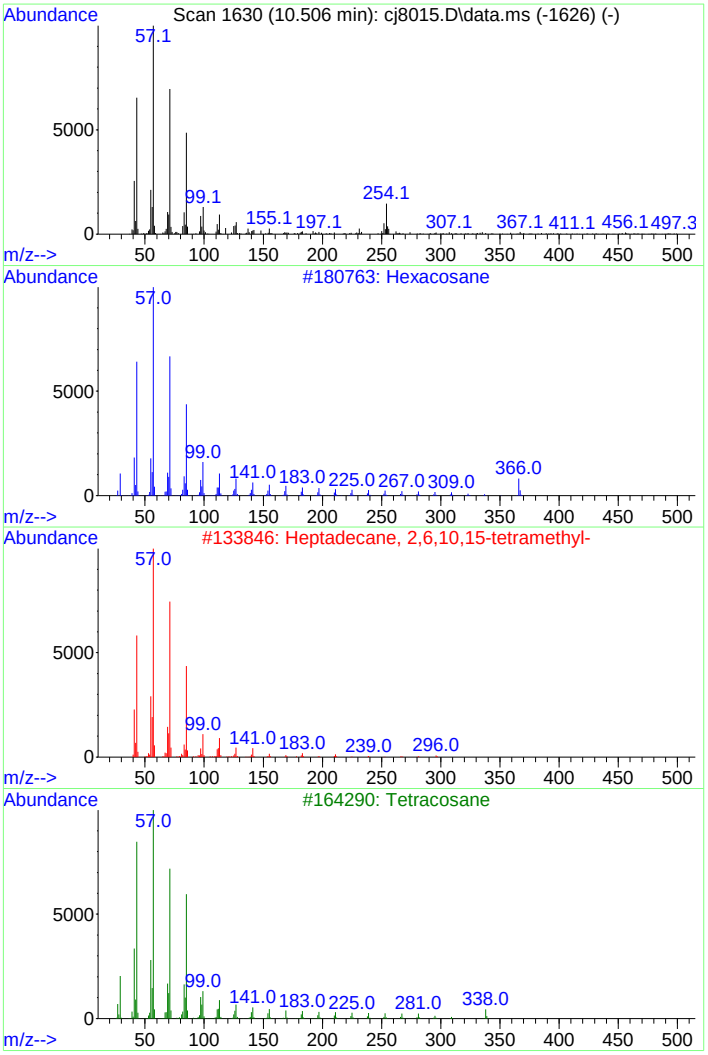
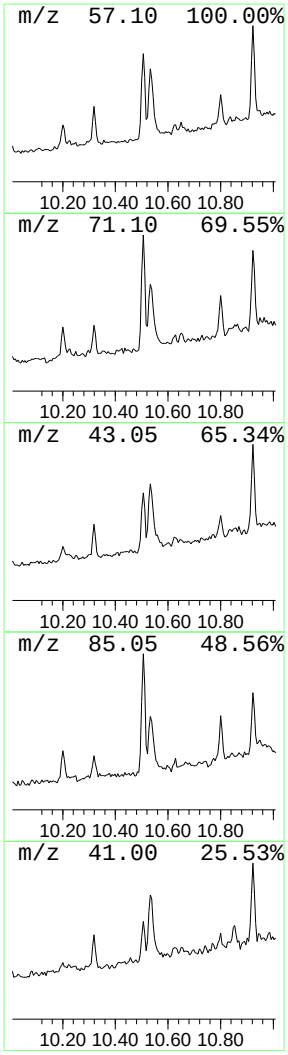
Peak Number 3 Alkane Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.506	4.56 ppm	503987	Chrysene-d12a	9.971

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexacosane	366	C26H54	000630-01-3	87
2	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	86
3	Tetracosane	338	C24H50	000646-31-1	83
4	Octacosane	394	C28H58	000630-02-4	83
5	Octadecane, 2-methyl-	268	C19H40	001560-88-9	83





Library Search Compound Report

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Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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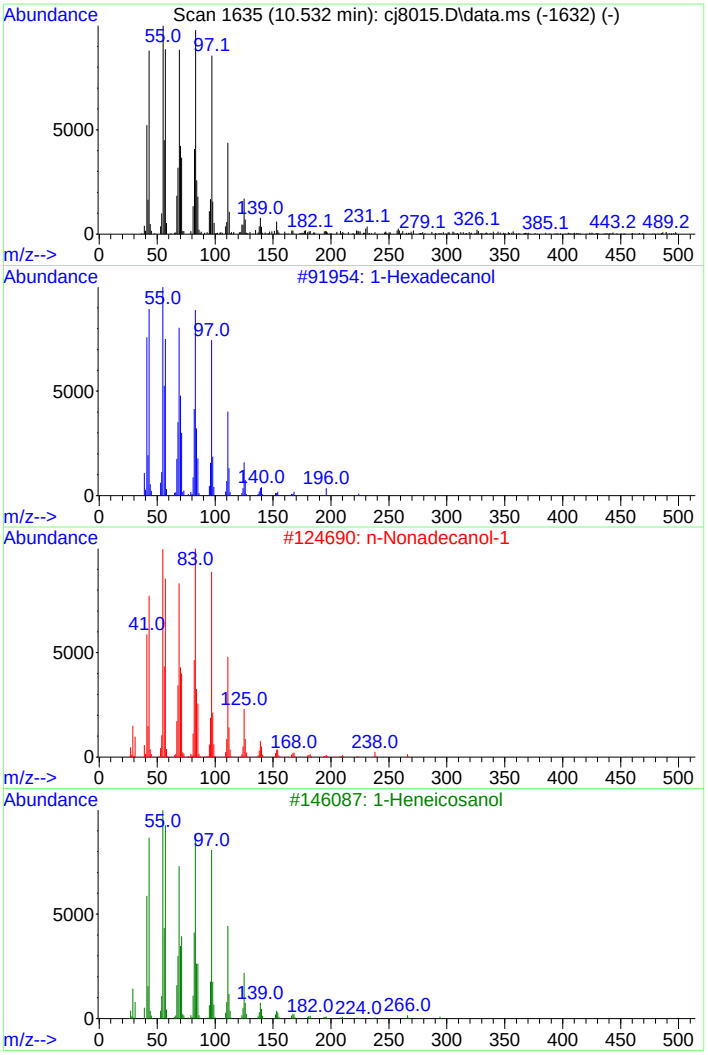
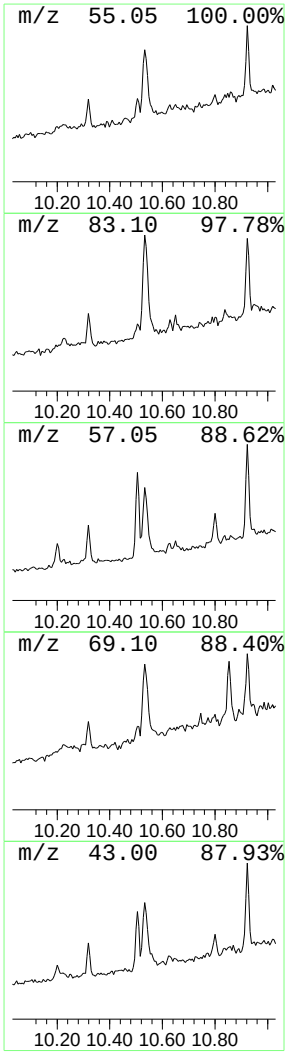
Peak Number 4 Unknown alcohol Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.532	11.03 ppm	1218280	Chrysene-d12a	9.971

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexadecanol	242	C16H34O	036653-82-4	94
2	n-Nonadecanol-1	284	C19H40O	001454-84-8	94
3	1-Heneicosanol	312	C21H44O	015594-90-8	91
4	n-Heptadecanol-1	256	C17H36O	001454-85-9	91
5	Behenic alcohol	326	C22H46O	000661-19-8	91





Library Search Compound Report

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Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
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Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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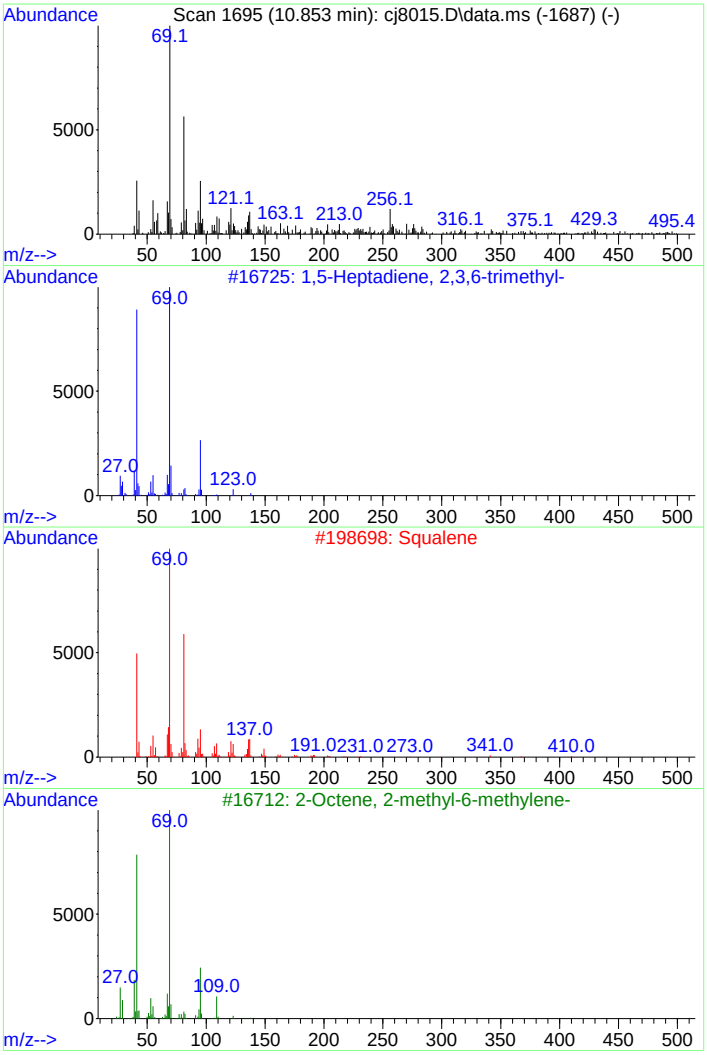
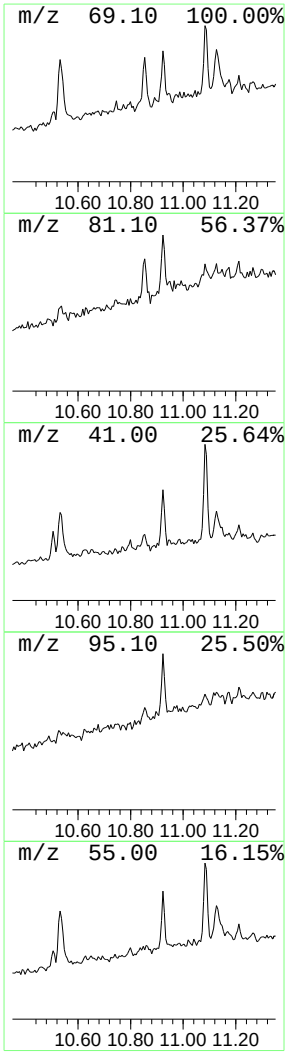
Peak Number 5 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.853	10.03 ppm	1424990	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,5-Heptadiene, 2,3,6-trimethyl-	138	C10H18	033501-88-1	64
2	Squalene	410	C30H50	007683-64-9	64
3	2-Octene, 2-methyl-6-methylene-	138	C10H18	010054-09-8	64
4	1,3-Dioxolan-2-one, 3-methyl-3-(...	264	C16H24O3	336879-76-6	58
5	3,7,11-Tridecatrienoic acid, 4,8...	264	C17H28O2	036237-69-1	53





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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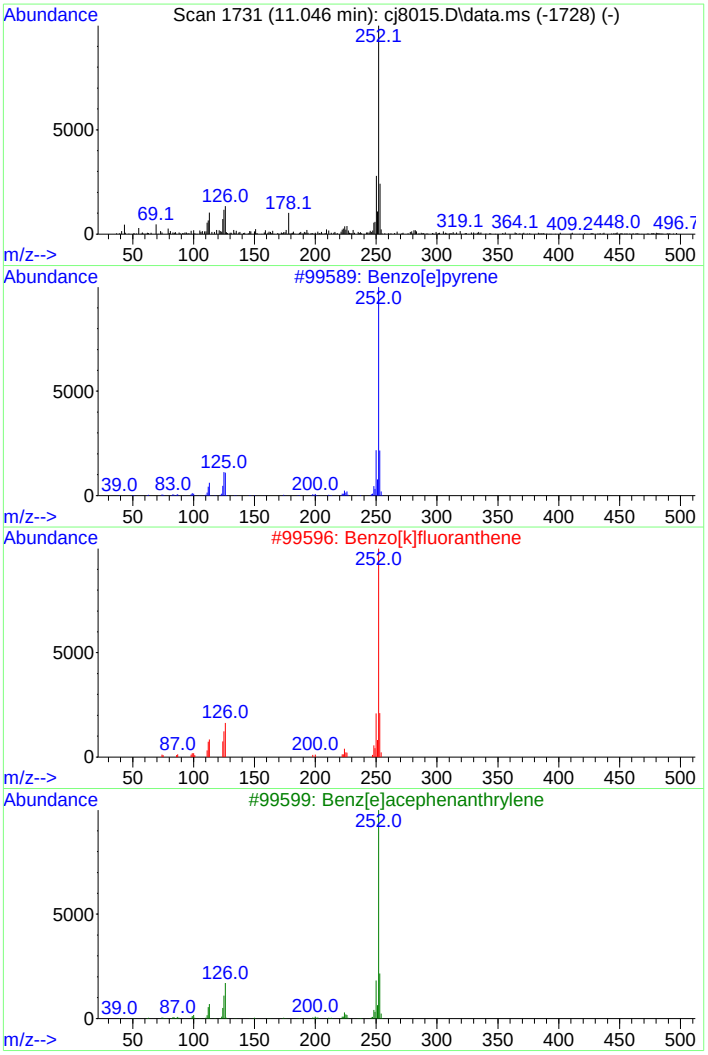
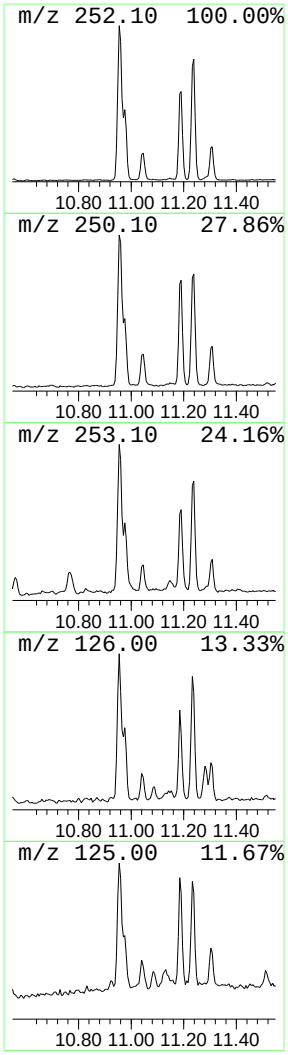
Peak Number 6 Unknown PAH substance Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.046	6.19 ppm	879974	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
4	Perylene	252	C20H12	000198-55-0	93
5	Benzo[a]pyrene	252	C20H12	000050-32-8	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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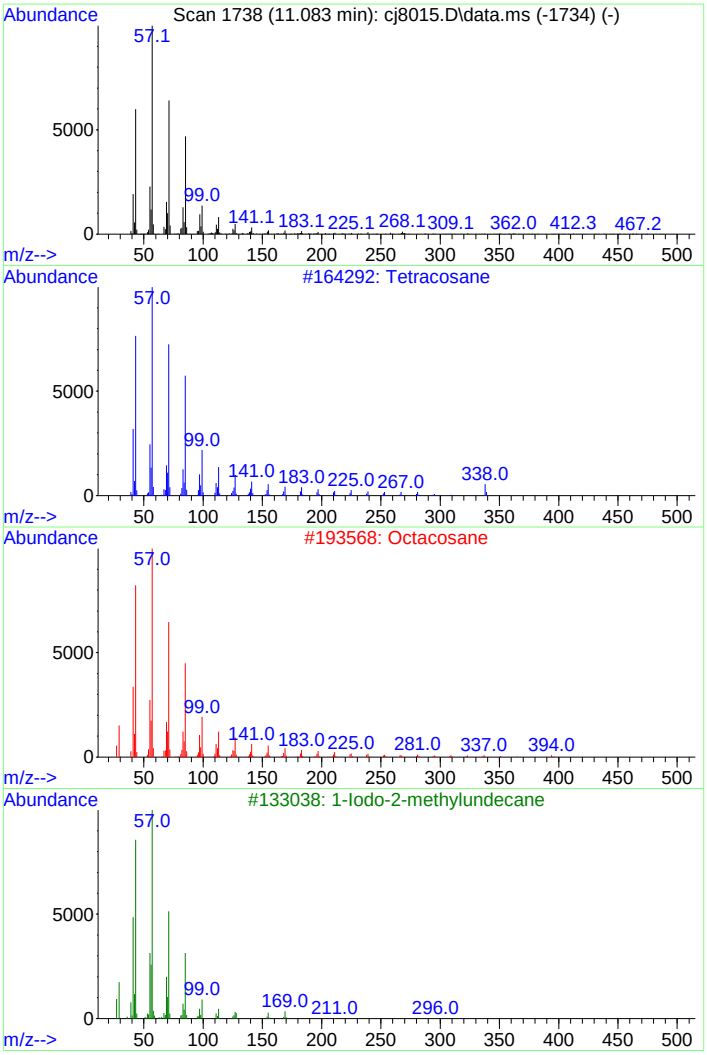
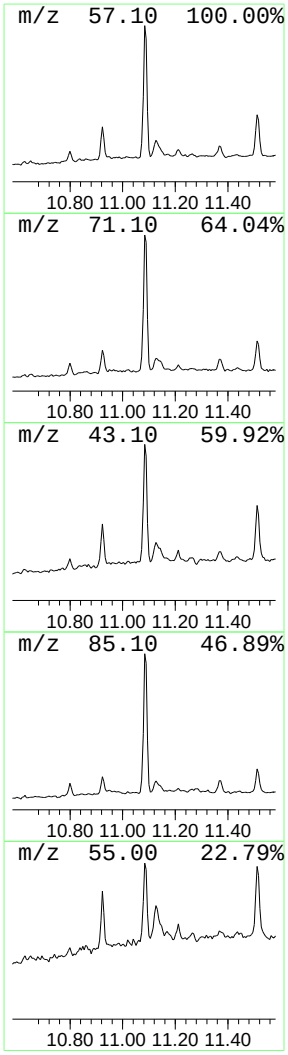
Peak Number 7 Alkane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.083	13.14 ppm	1867720	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	97
2	Octacosane	394	C28H58	000630-02-4	94
3	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	91
4	Nonadecane	268	C19H40	000629-92-5	87
5	Eicosane	282	C20H42	000112-95-8	87





Library Search Compound Report

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Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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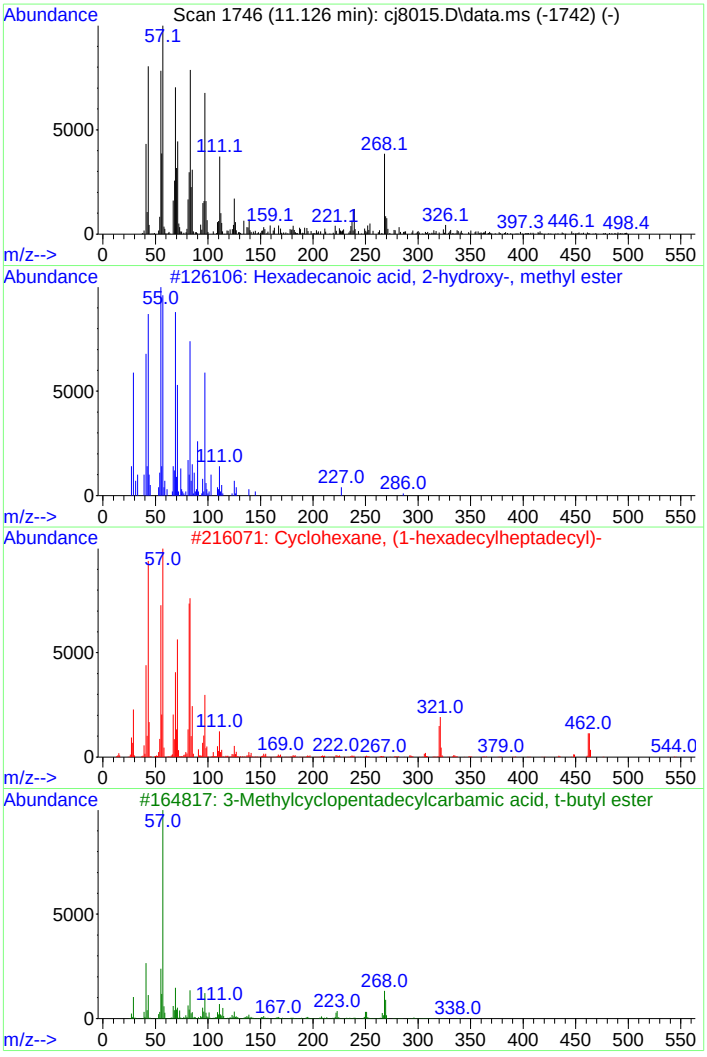
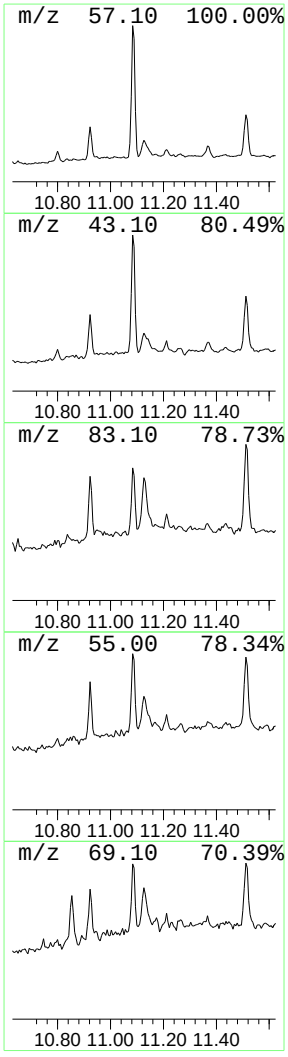
Peak Number 8 Unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.126	14.17 ppm	2013700	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, 2-hydroxy-, m...	286	C17H34O3	016742-51-1	60
2	Cyclohexane, (1-hexadecylheptade...	547	C39H78	055517-75-4	43
3	3-Methylcyclopentadecylcarbamic ...	339	C21H41NO2	1000191-30-3	23
4	Nonadecane	268	C19H40	000629-92-5	18
5	Thiophene-2-acetic acid, nonyl e...	268	C15H24O2S	1000282-82-3	16





Library Search Compound Report

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Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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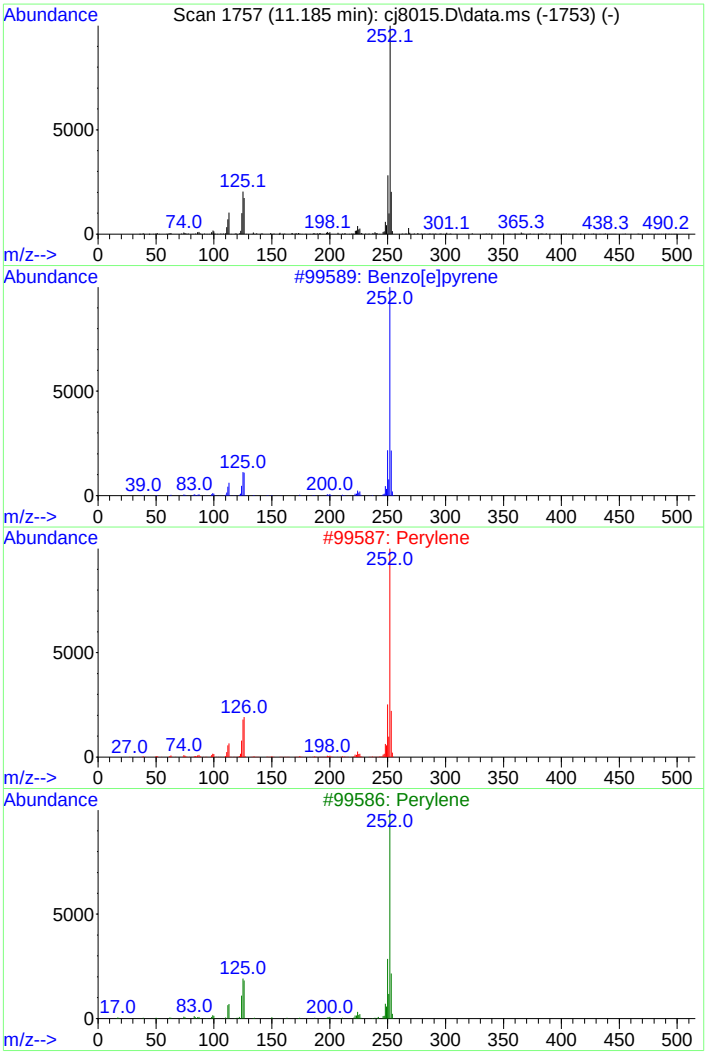
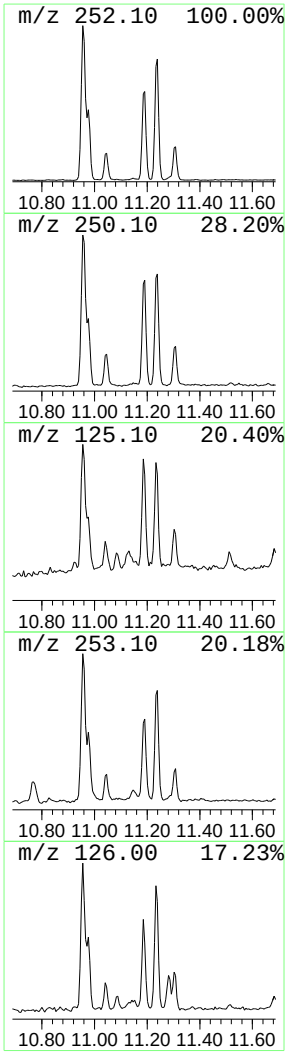
Peak Number 9 Unknown PAH substance Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.185	11.11 ppm	1578090	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Perylene	252	C20H12	000198-55-0	97
3	Perylene	252	C20H12	000198-55-0	94
4	Benzo[a]pyrene	252	C20H12	000050-32-8	94
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Library Search Compound Report

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Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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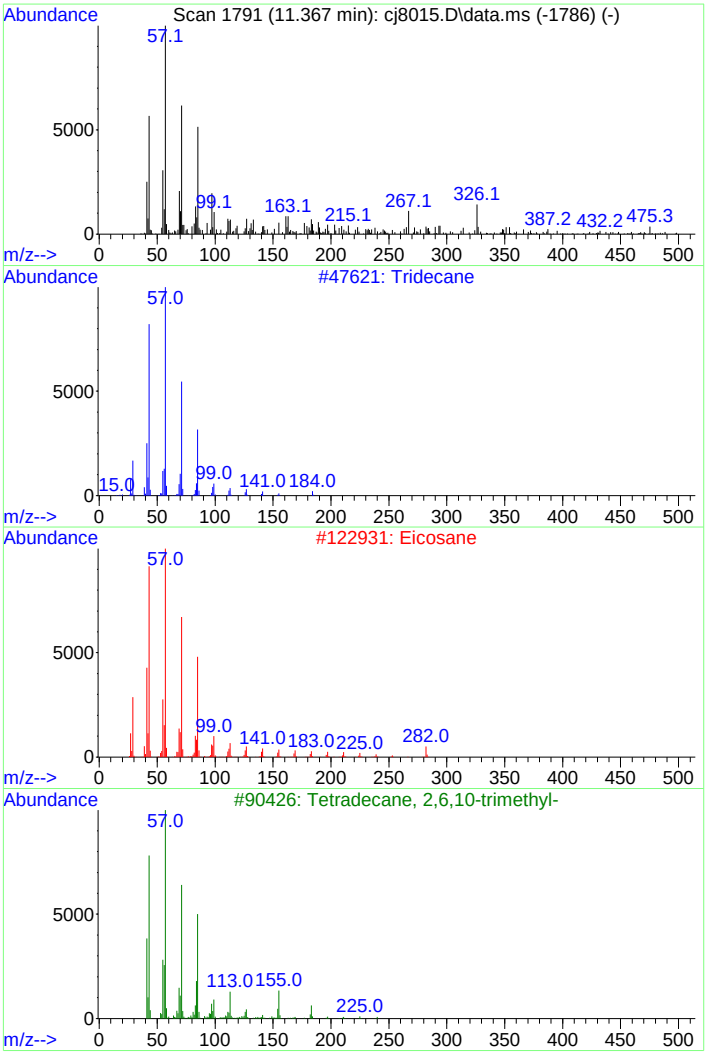
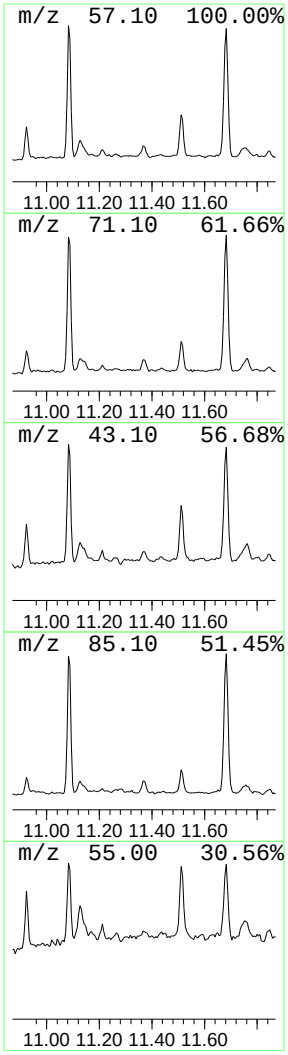
Peak Number 10 Alkane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.367	10.88 ppm	1546120	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	83
2	Eicosane	282	C20H42	000112-95-8	83
3	Tetradecane, 2,6,10-trimethyl-	240	C17H36	014905-56-7	64
4	Hexacosane	366	C26H54	000630-01-3	64
5	Tetratriacontane, 17-hexadecyl-	703	C50H102	055256-07-0	64





Library Search Compound Report

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Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
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Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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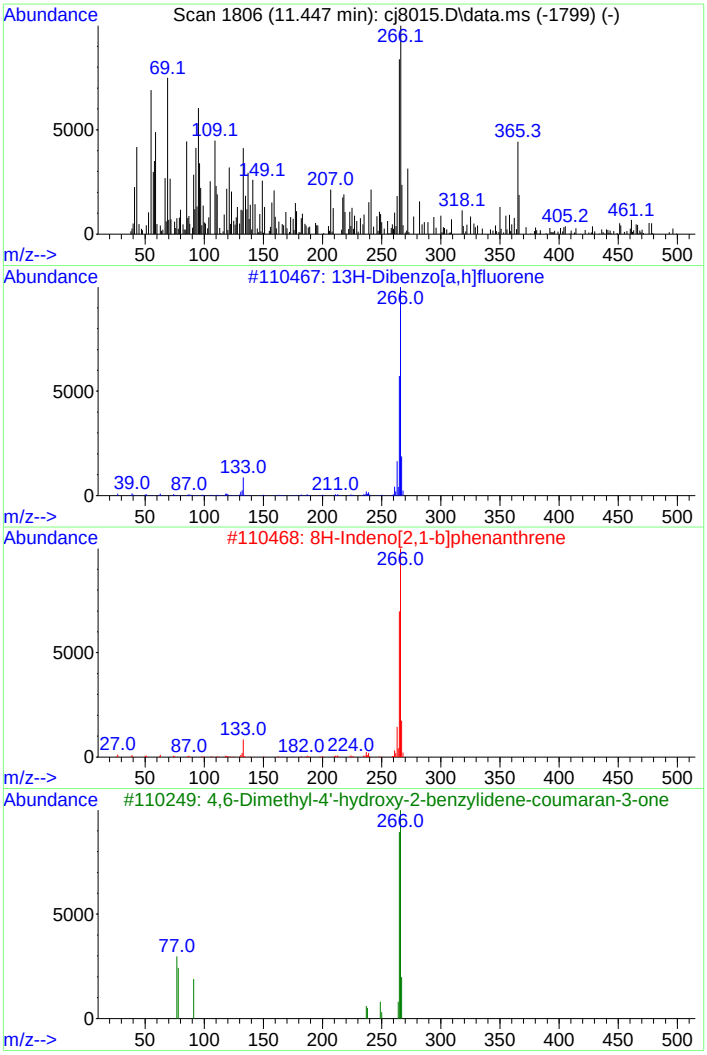
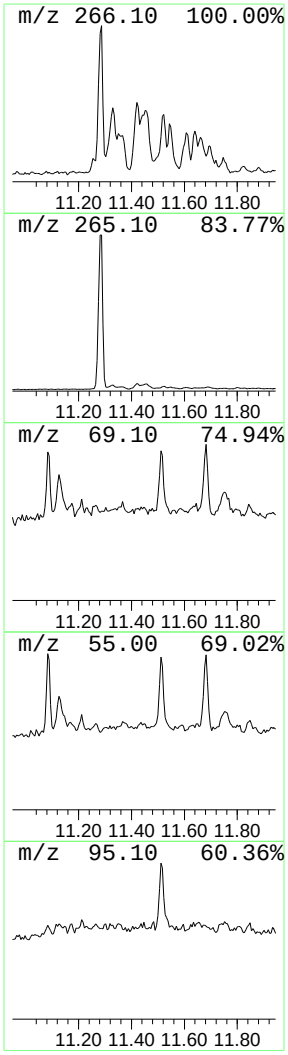
Peak Number 11 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.447	12.38 ppm	1759250	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	42
2	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	38
3	4,6-Dimethyl-4'-hydroxy-2-benzyl...	266	C17H14O3	002567-73-9	27
4	1-Benzothieno[3,2-f]quinazoline-...	266	C14H10N4S	065642-92-4	25
5	1,2,3,3a,4,5,7,8,9,10,11,12,12a-...	266	C20H26	095676-40-7	25





Library Search Compound Report

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Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
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Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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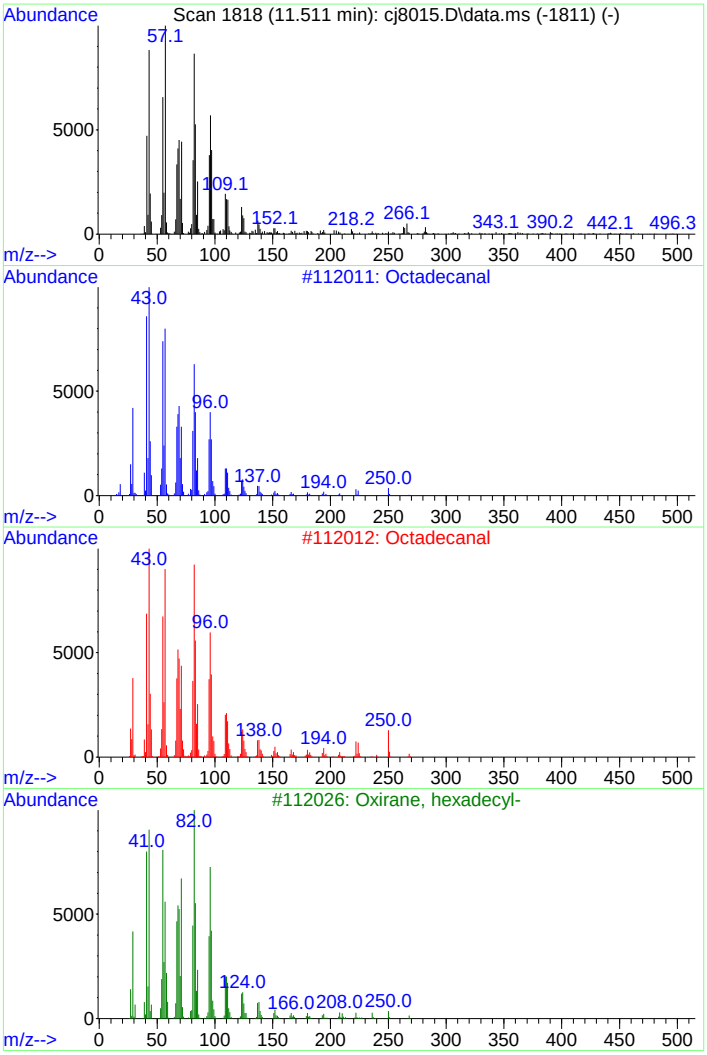
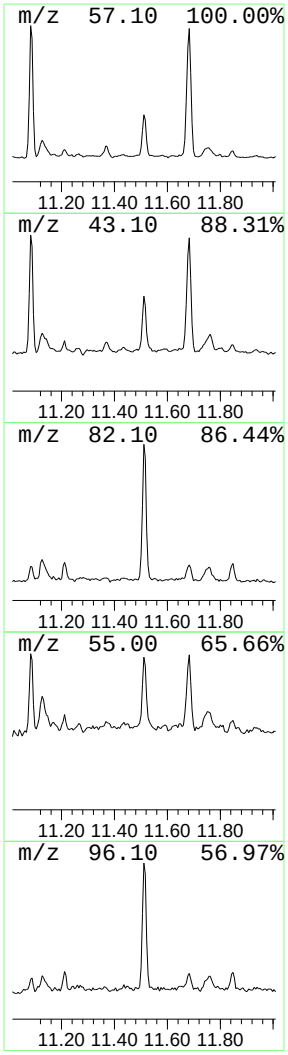
Peak Number 12 Unknown alcohol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.511	20.90 ppm	2969130	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanal	268	C18H36O	000638-66-4	91
2	Octadecanal	268	C18H36O	000638-66-4	91
3	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	87
4	17-Octadecenal	266	C18H34O	056554-86-0	86
5	1,13-Tetradecadiene	194	C14H26	021964-49-8	83





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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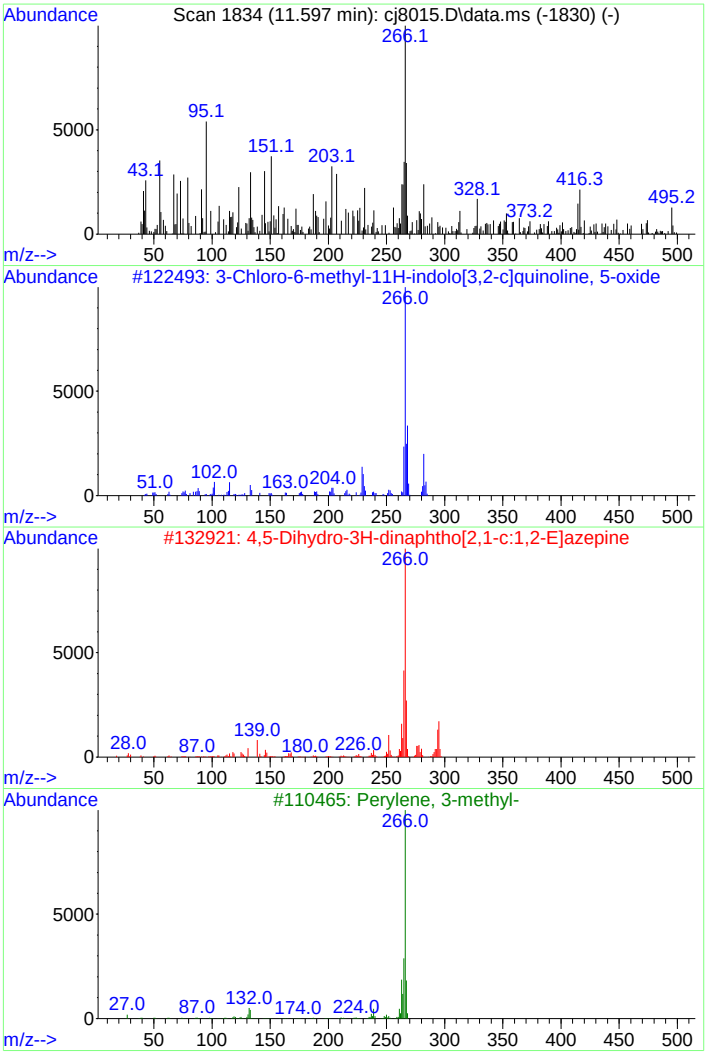
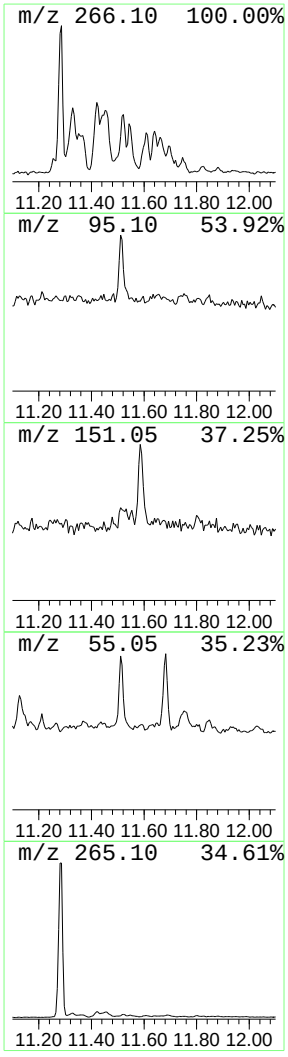
Peak Number 13 Unknown Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.597	7.14 ppm	1014370	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-methyl-11H-indolo[3,2...	282	C16H11ClN2O	1000212-76-7	38
2	4,5-Dihydro-3H-dinaphtho[2,1-c:1...	295	C22H17N	1000297-99-2	35
3	Perylene, 3-methyl-	266	C21H14	024471-47-4	35
4	Benzoic acid, 4-(4,5-dihydro-3-p...	266	C16H14N2O2	026192-74-5	27
5	Benzo[1,2-b:4,3-b']dithiophene, ...	266	C16H10S2	016587-58-9	27





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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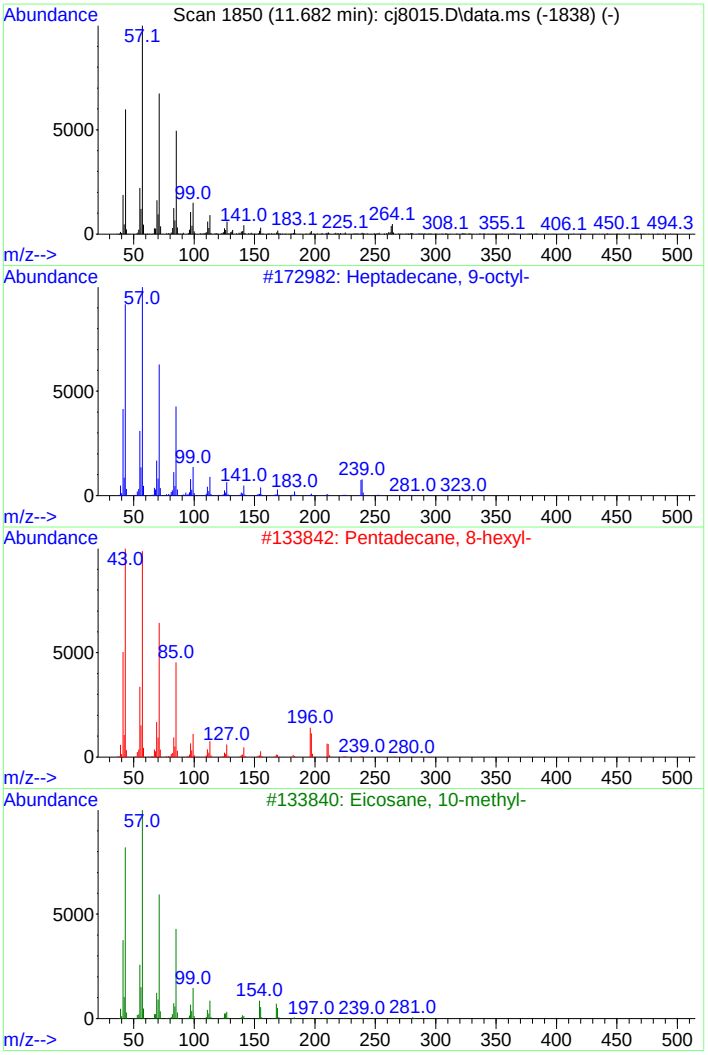
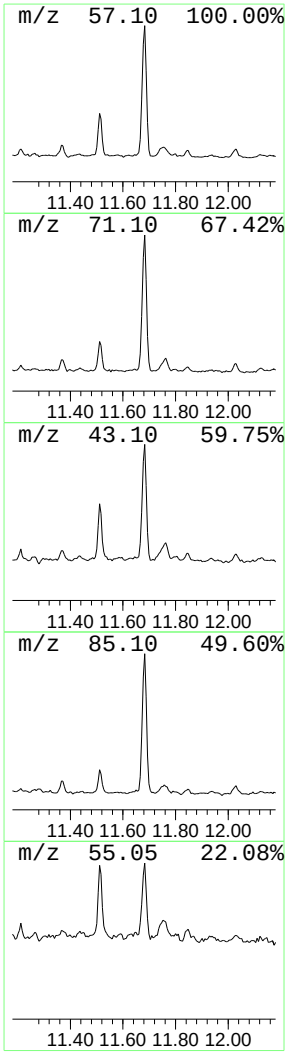
Peak Number 14 Alkane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.682	22.18 ppm	3151390	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	93
2	Pentadecane, 8-hexyl-	296	C21H44	013475-75-7	93
3	Eicosane, 10-methyl-	296	C21H44	054833-23-7	91
4	Triacontane	422	C30H62	000638-68-6	90
5	Heneicosane, 11-(1-ethylpropyl)-	366	C26H54	055282-11-6	87





Library Search Compound Report

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Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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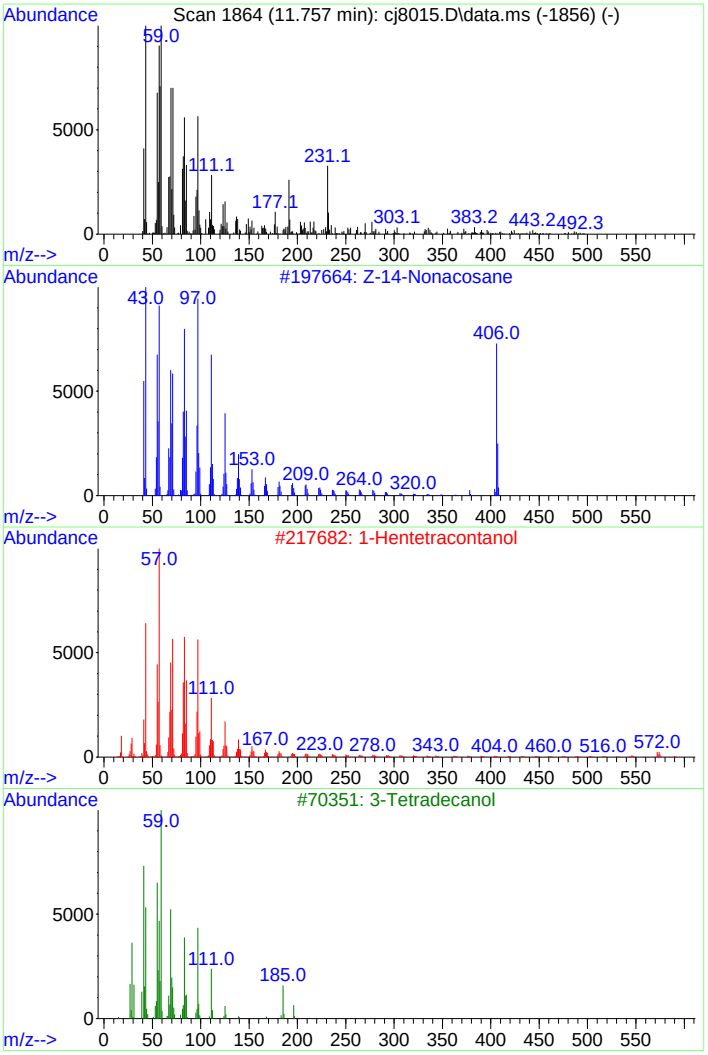
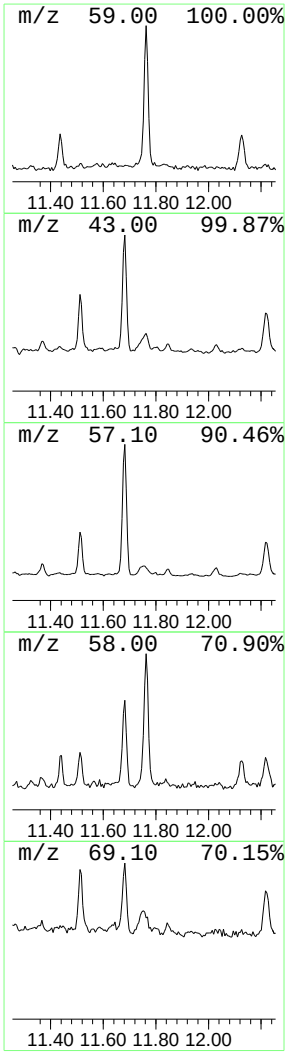
Peak Number 15 Unknown alcohol Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.757	12.17 ppm	1729930	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Z-14-Nonacosane	406	C29H58	1000131-18-9	55
2	1-Hentetracontanol	593	C41H84O	040710-42-7	55
3	3-Tetradecanol	214	C14H30O	001653-32-3	52
4	1-Heptacosanol	396	C27H56O	002004-39-9	49
5	Triacontyl heptafluorobutyrate	634	C34H61F7O2	1000351-83-2	49





Library Search Compound Report

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Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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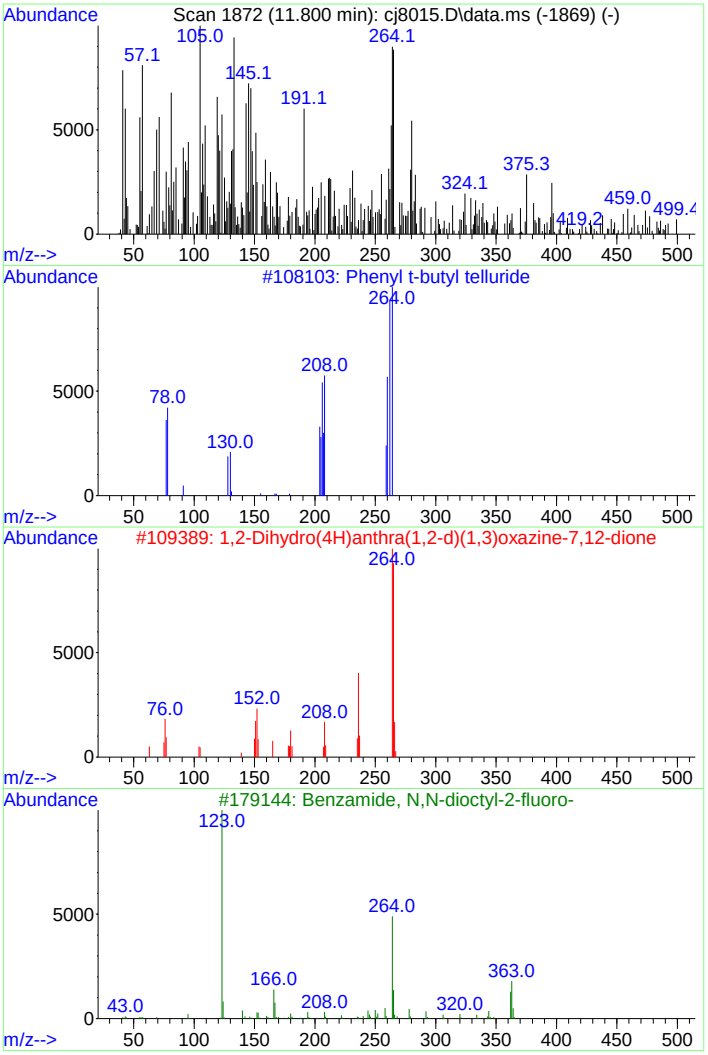
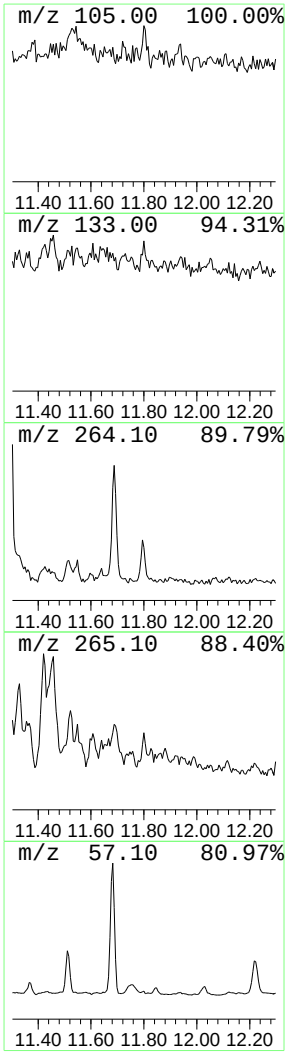
Peak Number 16 Unknown Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.800	6.46 ppm	917527	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenyl t-butyl telluride	264	C10H14Te	083817-38-3	56
2	1,2-Dihydro(4H)anthra(1,2-d)(1,3...	265	C16H11NO3	1000098-77-3	30
3	Benzamide, N,N-dioctyl-2-fluoro-	363	C23H38FNO	1000308-09-9	25
4	Furazano[3,4-H]1,6-naphthyridin-...	264	C14H8N4O2	296245-19-7	25
5	Chromone, 5-hydroxy-6,7,8-trimet...	280	C14H16O6	1000124-95-9	20





Library Search Compound Report

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Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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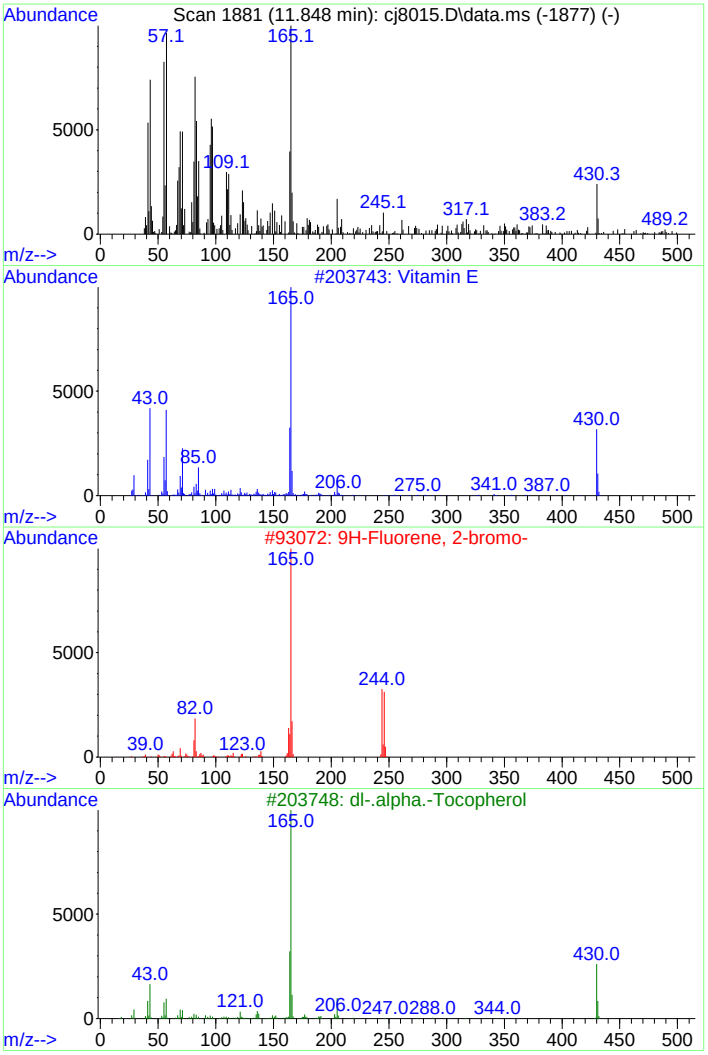
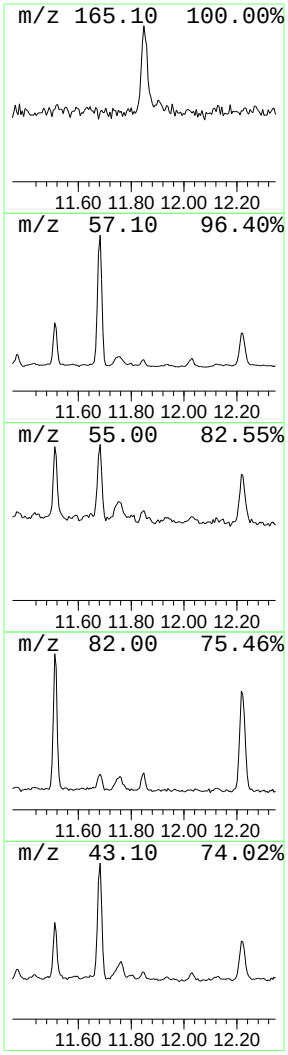
Peak Number 17 Vitamin E Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.848	8.94 ppm	1270540	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Vitamin E	430	C29H50O2	000059-02-9	38
2	9H-Fluorene, 2-bromo-	244	C13H9Br	001133-80-8	38
3	dl-.alpha.-Tocopherol	430	C29H50O2	010191-41-0	30
4	Vitamin E	430	C29H50O2	000059-02-9	27
5	1,1'-Bicyclohexyl, 2-(1-methylet...	208	C15H28	050991-15-6	25





Library Search Compound Report

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Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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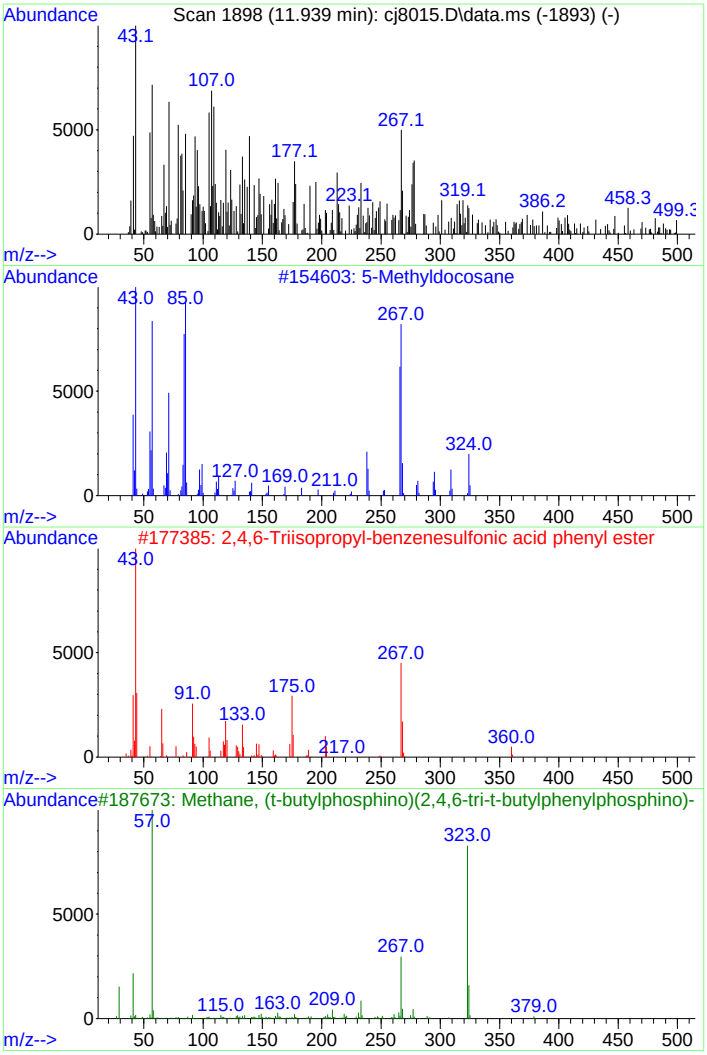
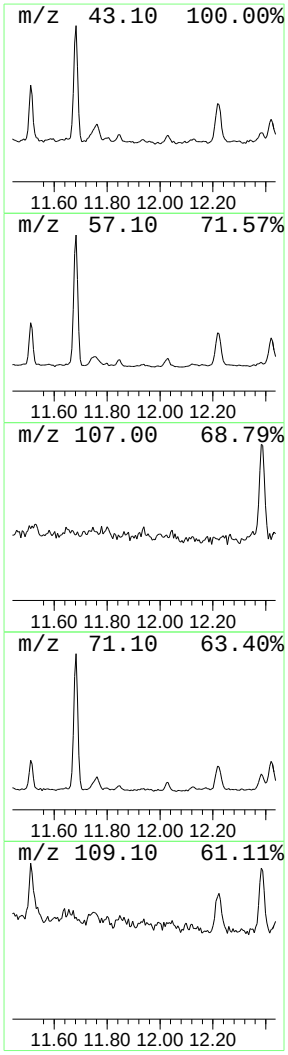
Peak Number 18 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.939	9.00 ppm	1279370	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Methyldocosane	324	C23H48	025163-52-4	15
2	2,4,6-Triisopropyl-benzenesulfon...	360	C21H28O3S	082965-06-8	10
3	Methane, (t-butylphosphino)(2,4,...	380	C23H42P2	159726-74-6	9
4	Cyclobutane, 1,3-bis[2-(2-isopro...	416	C26H40O4	070373-02-3	9
5	1,1,4,4-Tetraphenyl butynediol-1,4	390	C28H22O2	001483-74-5	9





Library Search Compound Report

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Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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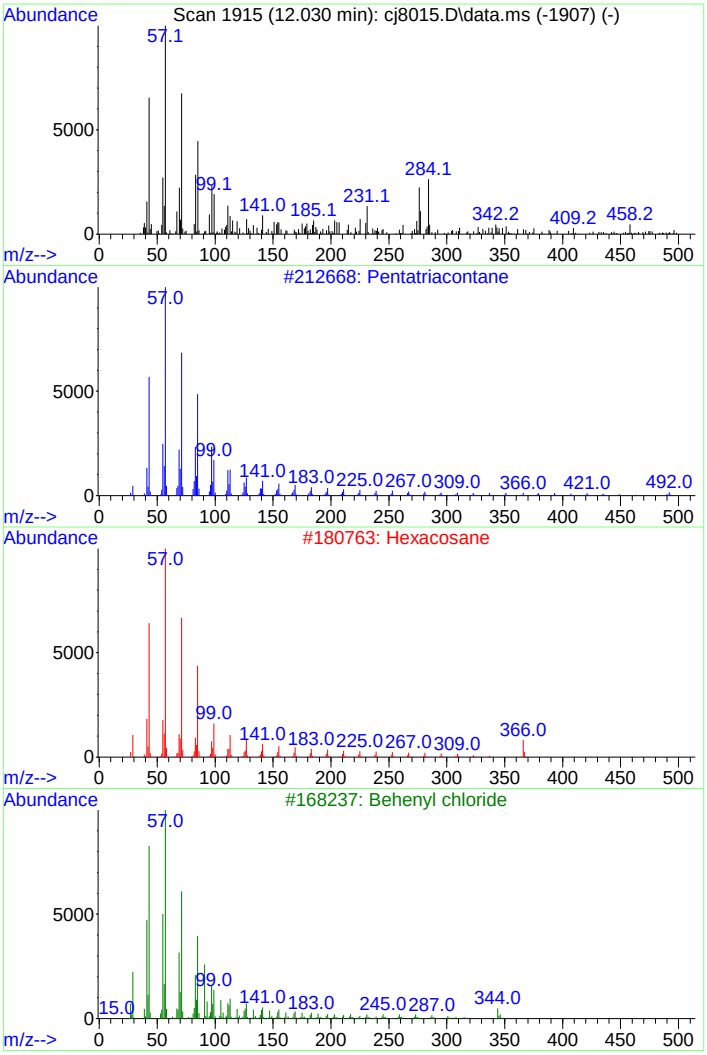
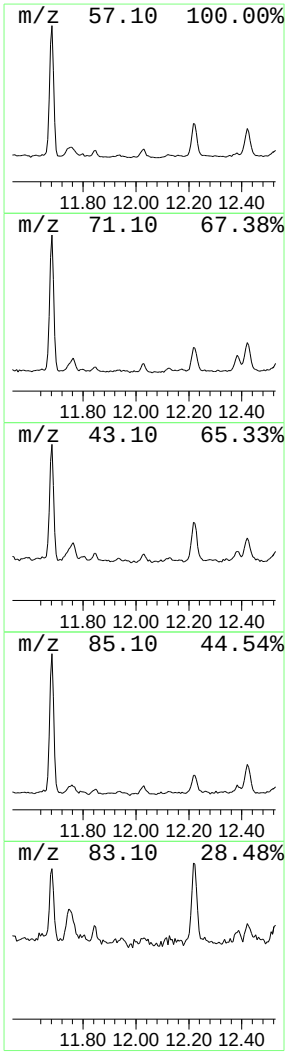
Peak Number 19 Alkane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.030	9.18 ppm	1304740	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentatriacontane	493	C35H72	000630-07-9	64
2	Hexacosane	366	C26H54	000630-01-3	55
3	Behenyl chloride	344	C22H45Cl	042217-03-8	55
4	Tetracosane, 1-bromo-	416	C24H49Br	006946-24-3	52
5	Sulfurous acid, butyl hexadecyl ...	362	C20H42O3S	1000309-18-3	52





Library Search Compound Report

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Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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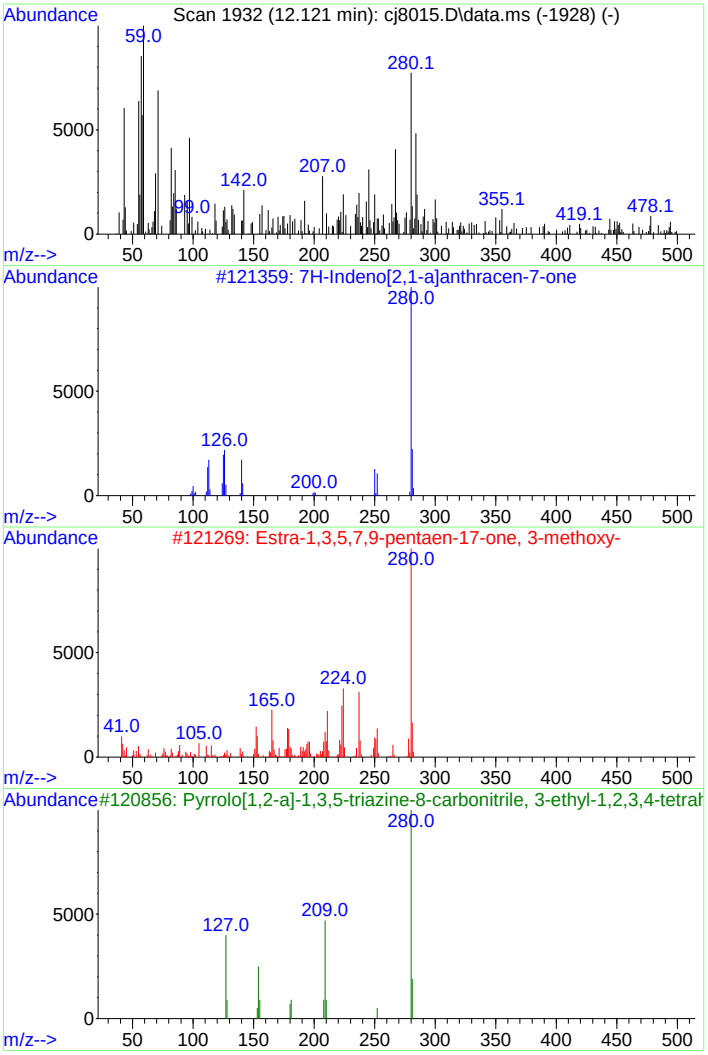
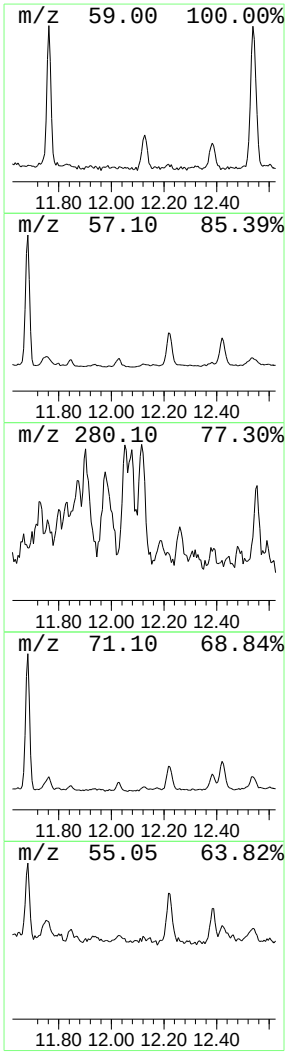
Peak Number 20 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.121	5.23 ppm	743177	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Indeno[2,1-a]anthracen-7-one	280	C21H12O	027582-45-2	51
2	Estra-1,3,5,7,9-pentaen-17-one, ...	280	C19H20O2	003907-67-3	30
3	Pyrrolo[1,2-a]-1,3,5-triazine-8-...	280	C15H12N4O2	054450-43-0	25
4	1-Butanol, 2-[[4-(1,1-dimethylet...	311	C14H21N3O5	055702-39-1	20
5	Estra-1,3,5,7,9-pentaen-17-one, ...	280	C19H20O2	003907-67-3	18





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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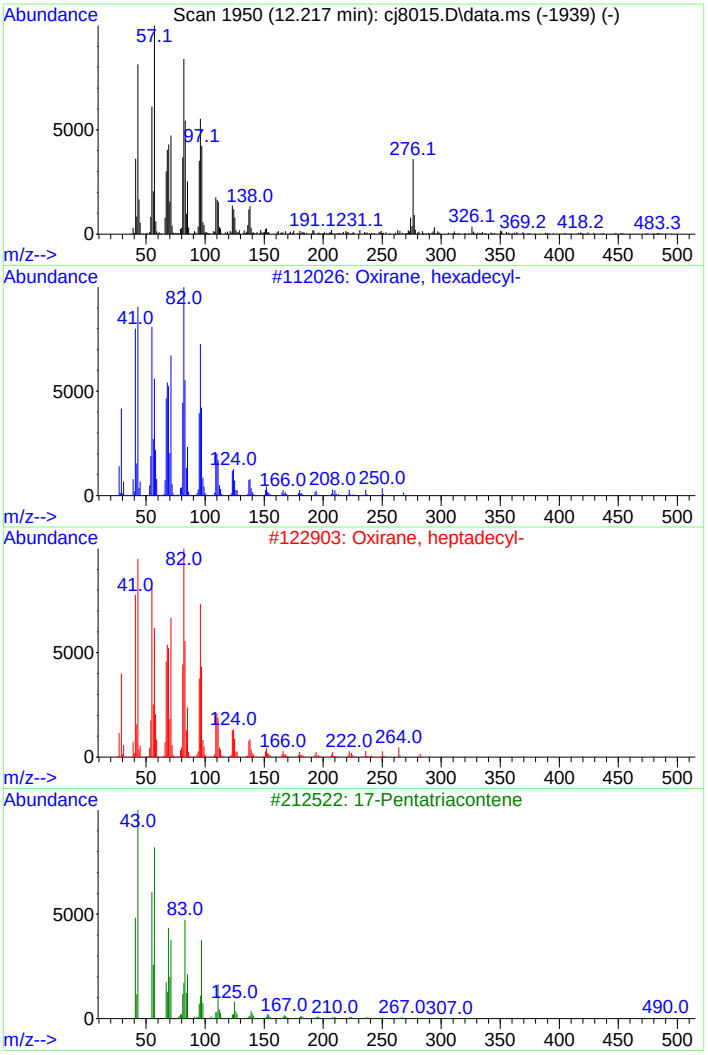
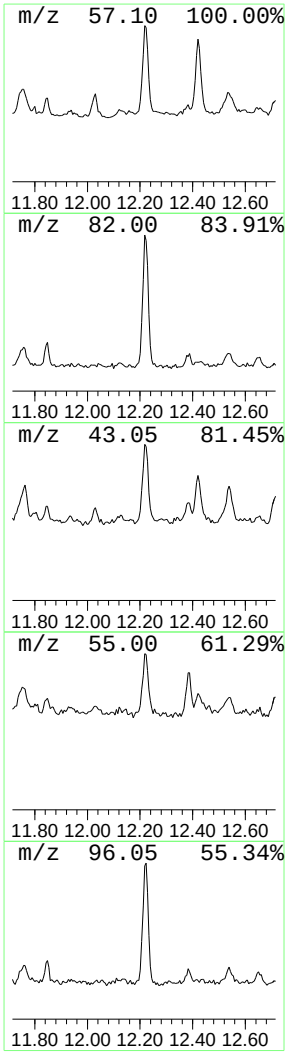
Peak Number 21 Unknown alcohol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.217	16.69 ppm	2372110	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	87
2	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	87
3	17-Pentatriacontene	491	C35H70	006971-40-0	81
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	81
5	Octadecanal	268	C18H36O	000638-66-4	81





Library Search Compound Report

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Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
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Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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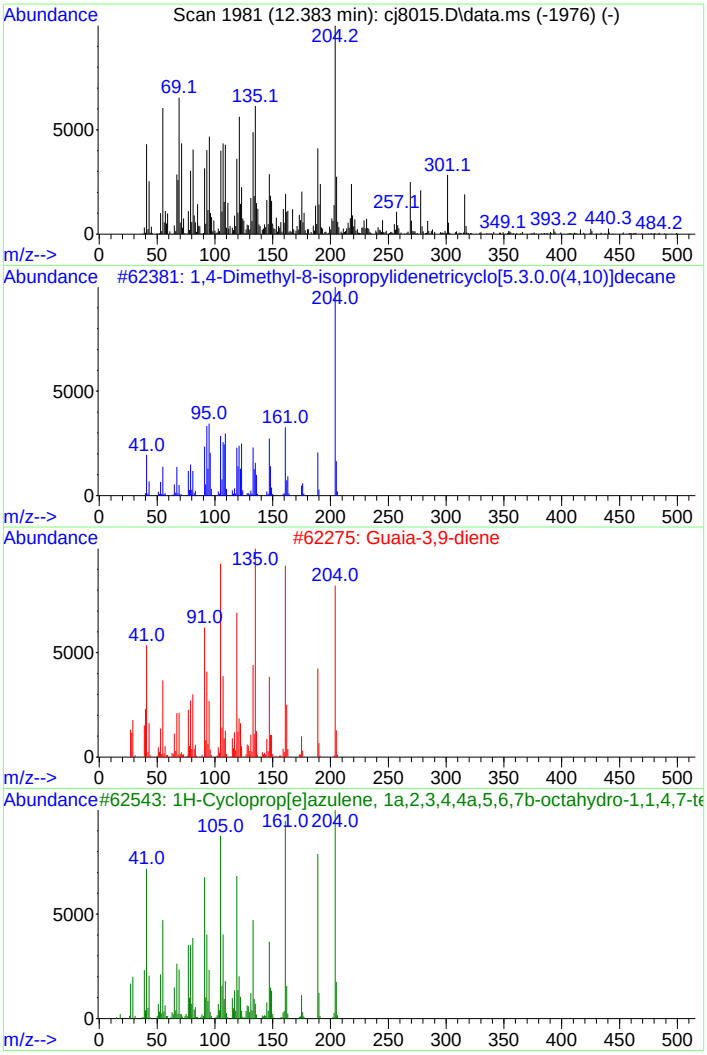
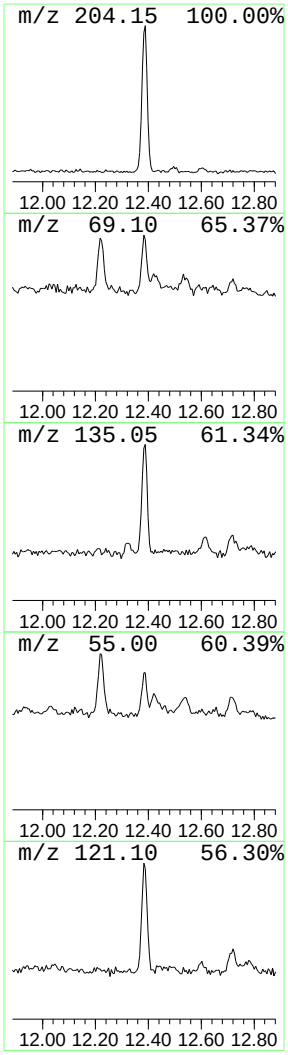
Peak Number 22 Unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.383	9.70 ppm	1378970	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1000140-07-7	64
2	Guaia-3,9-diene	204	C15H24	000489-83-8	46
3	1H-Cycloprop[e]azulene, 1a,2,3,4...	204	C15H24	000489-40-7	46
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	45
5	1H-3a,7-Methanoazulene, 2,3,6,7,...	204	C15H24	000560-32-7	43





Library Search Compound Report

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Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
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Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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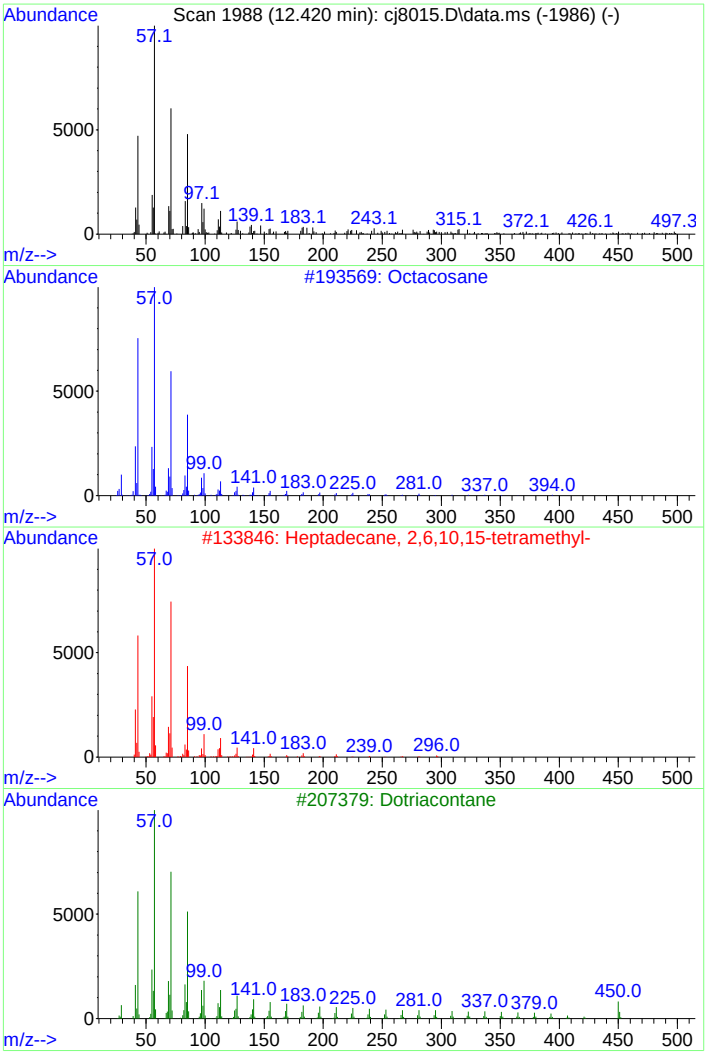
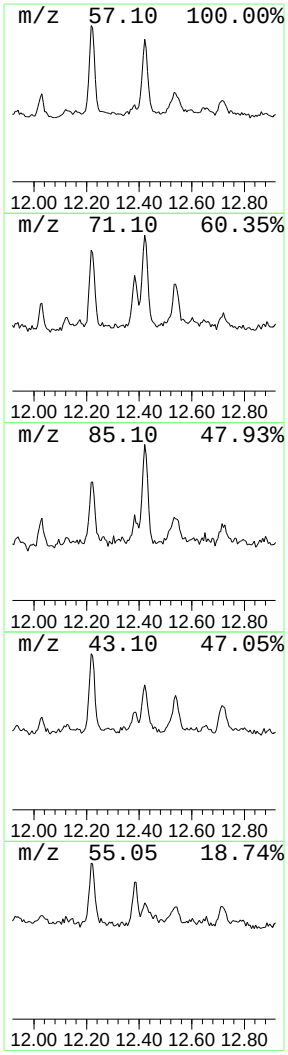
Peak Number 23 Alkane Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.420	5.51 ppm	782785	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	93
2	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	91
3	Dotriacontane	451	C32H66	000544-85-4	91
4	Octadecane	254	C18H38	000593-45-3	90
5	Dotriacontane	451	C32H66	000544-85-4	90





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Acq On : 01 Jul 2024 09:30 pm
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Sample : jd91204-7
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ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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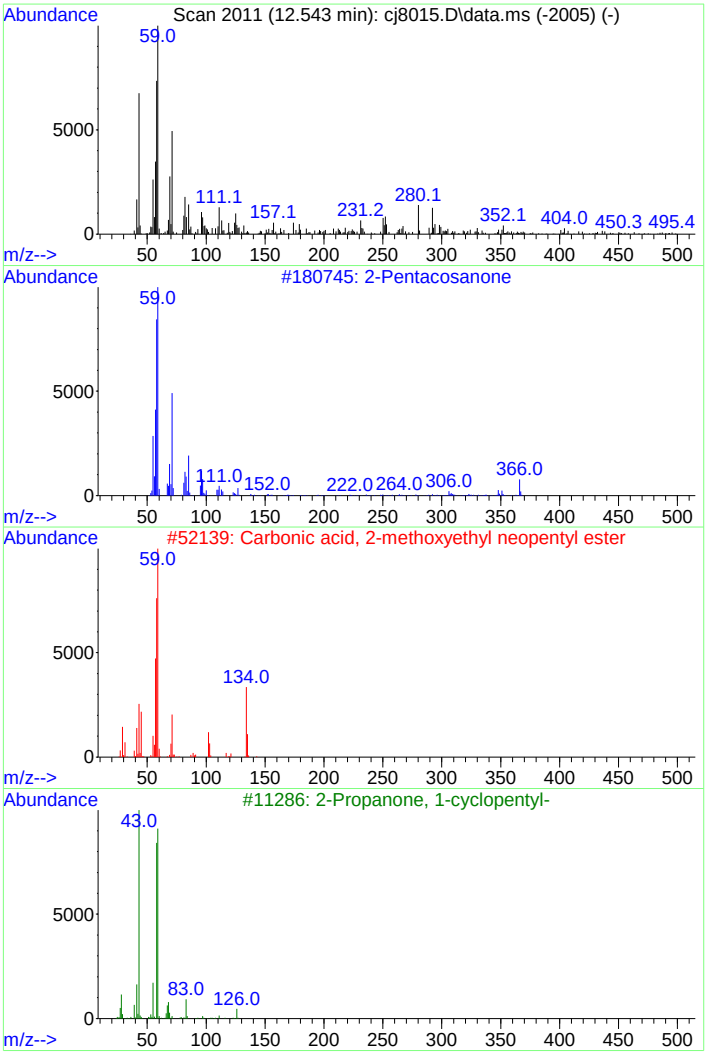
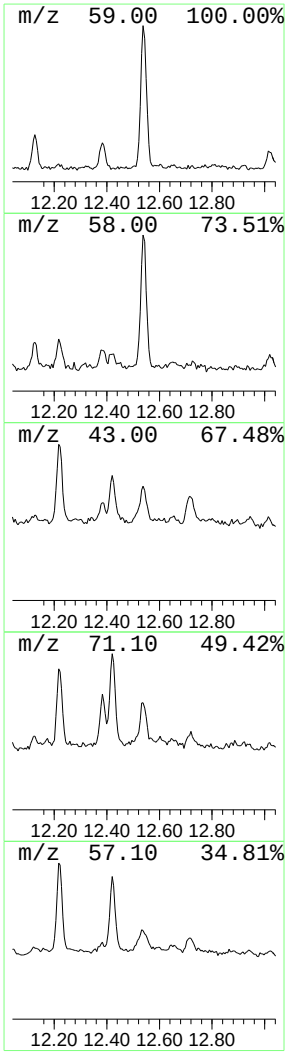
Peak Number 24 Unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.543	4.59 ppm	652135	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentacosanone	366	C25H50O	075207-54-4	72
2	Carbonic acid, 2-methoxyethyl ne...	190	C9H18O4	1000331-42-7	53
3	2-Propanone, 1-cyclopentyl-	126	C8H14O	001122-98-1	50
4	2-Tridecanone	198	C13H26O	000593-08-8	47
5	2-Dodecanone	184	C12H24O	006175-49-1	47





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

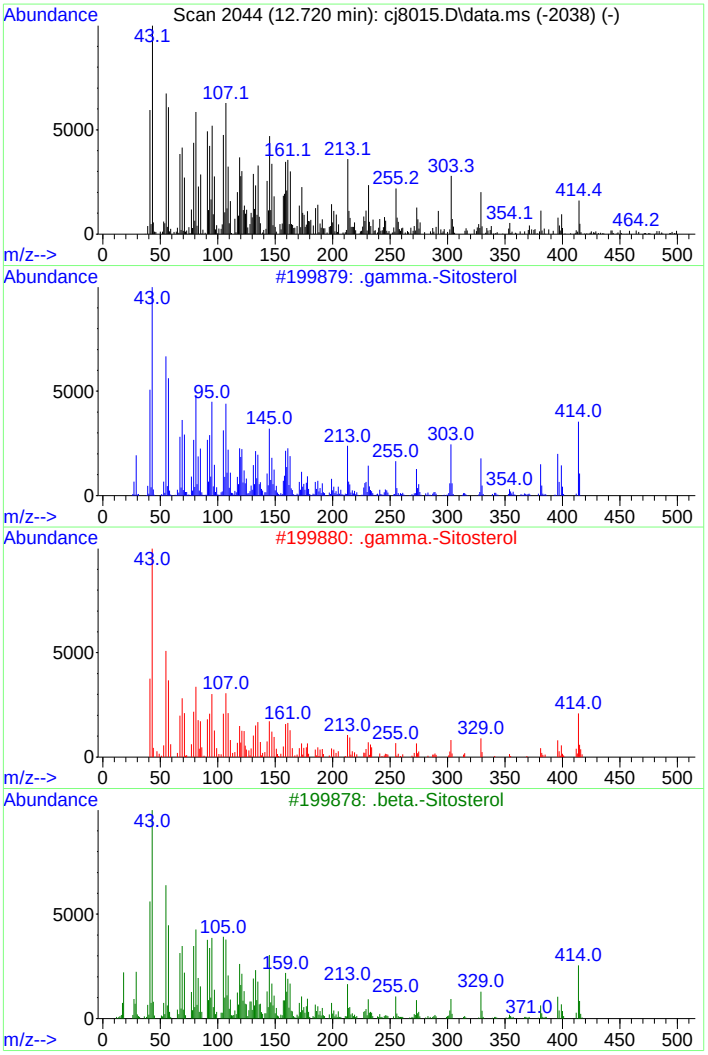
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

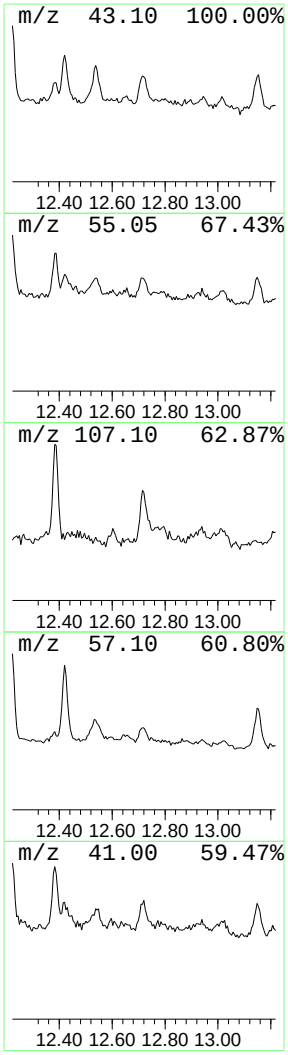
****

Peak Number 25 Sitosterol Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.720	4.93 ppm	699944	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	96
2	.gamma.-Sitosterol	414	C29H50O	000083-47-6	91
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	86
4	Cholest-7-en-3-ol, 4,4-dimethyl-...	414	C29H50O	006384-28-7	45
5	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	38





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8015.D
Acq On : 01 Jul 2024 09:30 pm
Operator : karimam
Sample : jd91204-7
Misc : op55759,ecj348,31.1,,,1,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	10.211	4.1	ppm	450720	10	9.971	4417750	40.0
Unknown	10.318	5.6	ppm	617215	10	9.971	4417750	40.0
Alkane	10.506	4.6	ppm	503987	10	9.971	4417750	40.0
Unknown alcohol	10.532	11.0	ppm	1218280	10	9.971	4417750	40.0
Unknown	10.853	10.0	ppm	1424990	11	11.287	5683600	40.0
Unknown PAH sub...	11.046	6.2	ppm	879974	11	11.287	5683600	40.0
Alkane	11.083	13.1	ppm	1867720	11	11.287	5683600	40.0
Unknown	11.126	14.2	ppm	2013700	11	11.287	5683600	40.0
Unknown PAH sub...	11.185	11.1	ppm	1578090	11	11.287	5683600	40.0
Alkane	11.367	10.9	ppm	1546120	11	11.287	5683600	40.0
Unknown	11.447	12.4	ppm	1759250	11	11.287	5683600	40.0
Unknown alcohol	11.511	20.9	ppm	2969130	11	11.287	5683600	40.0
Unknown	11.597	7.1	ppm	1014370	11	11.287	5683600	40.0
Alkane	11.682	22.2	ppm	3151390	11	11.287	5683600	40.0
Unknown alcohol	11.757	12.2	ppm	1729930	11	11.287	5683600	40.0
Unknown	11.800	6.5	ppm	917527	11	11.287	5683600	40.0
Vitamin E	11.848	8.9	ppm	1270540	11	11.287	5683600	40.0
Unknown	11.939	9.0	ppm	1279370	11	11.287	5683600	40.0
Alkane	12.030	9.2	ppm	1304740	11	11.287	5683600	40.0
Unknown	12.121	5.2	ppm	743177	11	11.287	5683600	40.0
Unknown alcohol	12.217	16.7	ppm	2372110	11	11.287	5683600	40.0
Unknown	12.383	9.7	ppm	1378970	11	11.287	5683600	40.0
Alkane	12.420	5.5	ppm	782785	11	11.287	5683600	40.0
Unknown	12.543	4.6	ppm	652135	11	11.287	5683600	40.0
Sitosterol	12.720	4.9	ppm	699944	11	11.287	5683600	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 07/02/24 05:10

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7996.D
Acq On : 01 Jul 2024 03:35 pm
Operator : karimam
Sample : jd91204-8 Inst : GCMSCJ
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 02 02:02:45 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

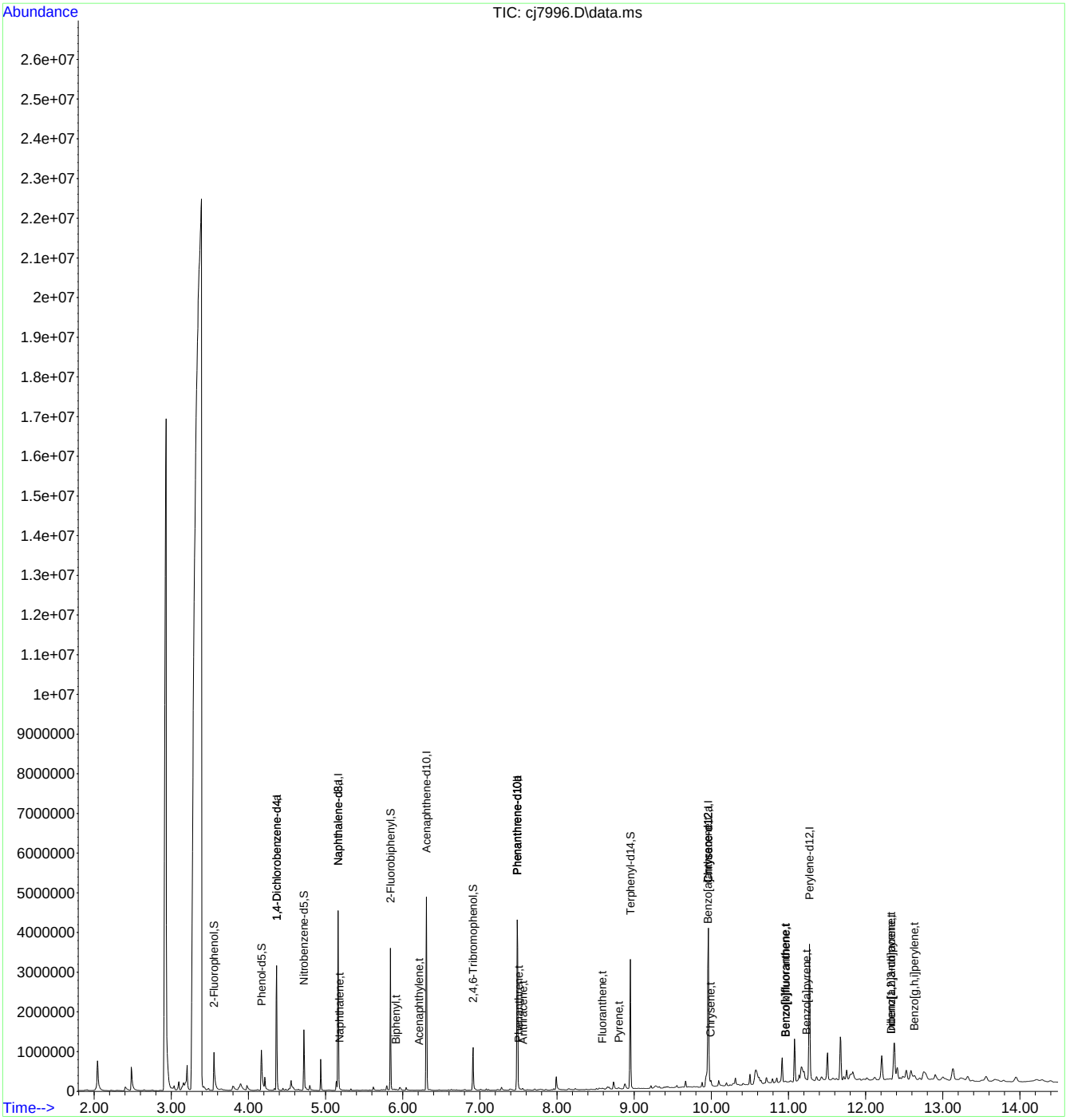
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	4.365	152	376620	40.00	ppm		0.00
24) Naphthalene-d8	5.162	136	1397305	40.00	ppm		0.00
46) Acenaphthene-d10	6.307	164	784989	40.00	ppm		0.00
69) Phenanthrene-d10	7.484	188	1455161	40.00	ppm		0.00
84) Chrysene-d12	9.960	240	1182939	40.00	ppm		0.00
93) Perylene-d12	11.270	264	1220354	40.00	ppm		0.00
103) 1,4-Dichlorobenzene-d4a	4.365	152	376620	40.00	ppm		0.00
105) Phenanthrene-d10a	7.484	188	1455161	40.00	ppm		0.00
107) Naphthalene-d8a	5.162	136	1397305	40.00	ppm		0.00
109) Phenanthrene-d10b	7.484	188	1455161	40.00	ppm	#	0.00
112) Chrysene-d12a	9.960	240	1182939	40.00	ppm		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	3.552	112	278876	25.76	ppm		0.03
Spiked Amount 50.000			Recovery = 51.52%				
8) Phenol-d5	4.167	99	401507	28.76	ppm		0.01
Spiked Amount 50.000			Recovery = 57.52%				
25) Nitrobenzene-d5	4.718	82	390205	27.27	ppm		0.00
Spiked Amount 50.000			Recovery = 54.54%				
51) 2-Fluorobiphenyl	5.841	172	777316	31.47	ppm		0.00
Spiked Amount 50.000			Recovery = 62.94%				
74) 2,4,6-Tribromophenol	6.911	330	106182	33.28	ppm		0.00
Spiked Amount 50.000			Recovery = 66.56%				
87) Terphenyl-d14	8.949	244	947575	32.42	ppm		0.00
Spiked Amount 50.000			Recovery = 64.84%				
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm		
Spiked Amount 50.000			Recovery = 0.00%				
111) o-terphenyl	0.000	230	0	0.00	ppm		
Spiked Amount 50.000			Recovery = 0.00%				
Target Compounds							Qvalue
38) Naphthalene	5.178	128	1943	0.0580	ppm		96
53) Biphenyl	5.911	154	2143	0.0795	ppm		92
56) Acenaphthylene	6.211	152	1525	0.0501	ppm		92
78) Phenanthrene	7.505	178	8154	0.2319	ppm		97
79) Anthracene	7.558	178	1262	0.0358	ppm		92
82) Fluoranthene	8.585	202	14030	0.3685	ppm		94
86) Pyrene	8.799	202	12408	0.3084	ppm		98
89) Benzo[a]anthracene	9.955	228	8989	0.2363	ppm		95
91) Chrysene	9.987	228	7330	0.2089	ppm		97
95) Benzo[b]fluoranthene	10.955	252	9539m	0.2588	ppm		
96) Benzo[k]fluoranthene	10.966	252	3479m	0.1049	ppm		
97) Benzo[a]pyrene	11.233	252	4394	0.1440	ppm		86
98) Indeno[1,2,3-cd]pyrene	12.329	276	4228	0.1146	ppm		85
100) Dibenz[a,h]anthracene	12.329	278	1266	0.0429	ppm		74
102) Benzo[g,h,i]perylene	12.629	276	3624	0.1264	ppm		87

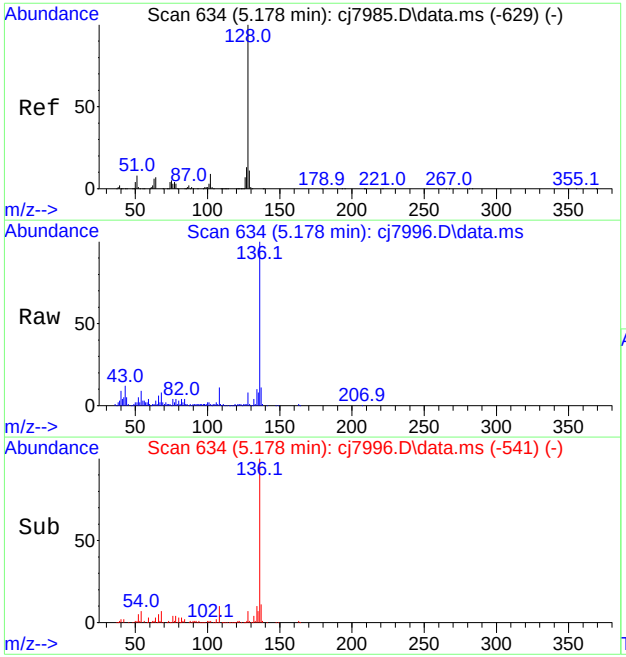
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7996.D
Acq On : 01 Jul 2024 03:35 pm
Operator : karimam
Sample : jd91204-8 Inst : GCMSCJ
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 02 02:02:45 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

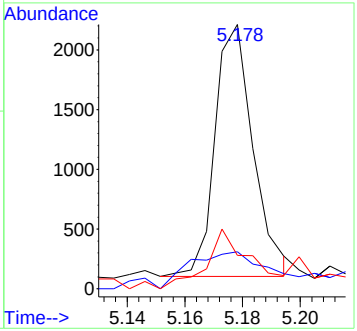


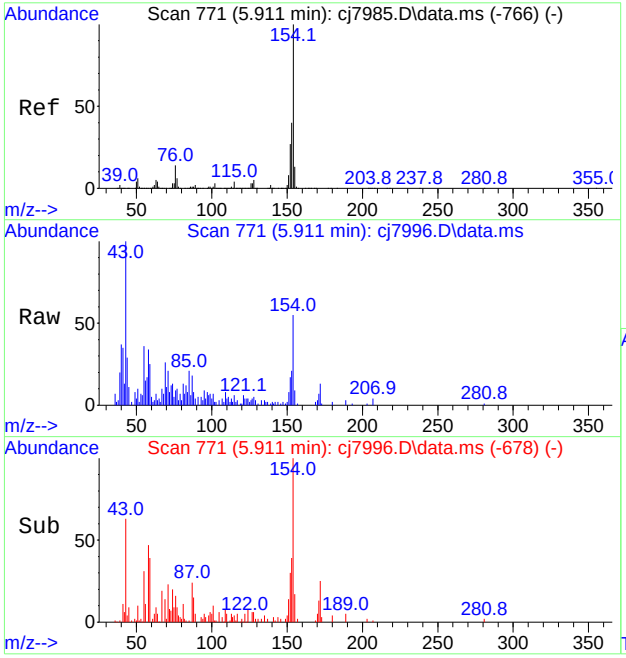


#38
Naphthalene
Concen: 0.0580 ppm
RT: 5.178 min Scan# 634
Delta R.T. 0.000 min
Lab File: cj7996.D
Acq: 01 Jul 2024 03:35 pm

Tgt Ion:128 Resp: 1943

Ion	Ratio	Lower	Upper
128	100		
129	12.2	0.0	41.3
127	11.2	0.0	43.5

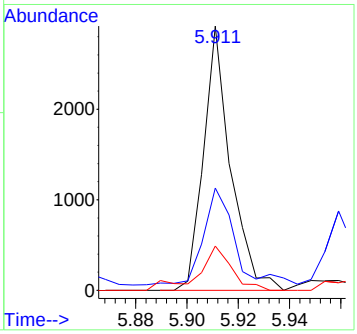


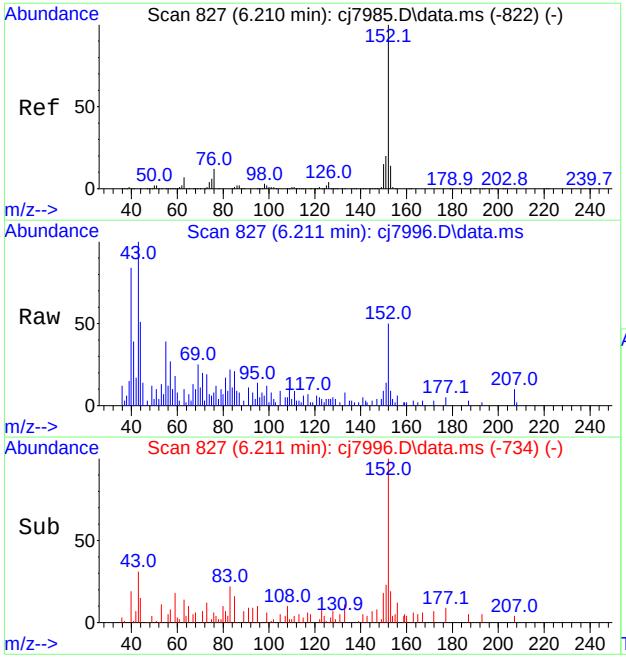


#53
Biphenyl
Concen: 0.0795 ppm
RT: 5.911 min Scan# 771
Delta R.T. 0.000 min
Lab File: cj7996.D
Acq: 01 Jul 2024 03:35 pm

Tgt Ion:154 Resp: 2143

Ion	Ratio	Lower	Upper
154	100		
153	35.0	10.3	70.3
155	14.8	0.0	42.9

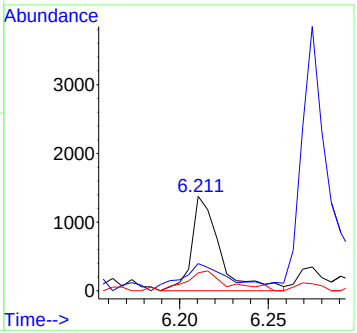


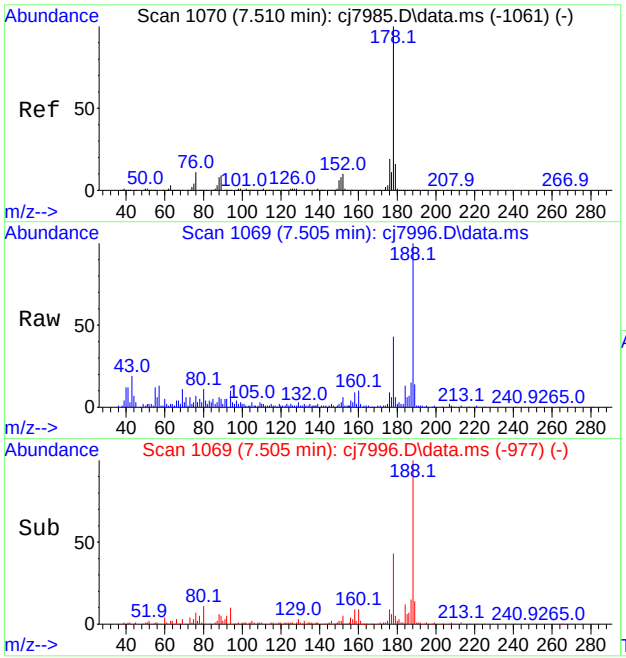


#56
Acenaphthylene
Concen: 0.0501 ppm
RT: 6.211 min Scan# 827
Delta R.T. 0.000 min
Lab File: cj7996.D
Acq: 01 Jul 2024 03:35 pm

Tgt Ion:152 Resp: 1525

Ion	Ratio	Lower	Upper
152	100		
151	21.9	0.0	50.2
153	19.4	0.0	43.5

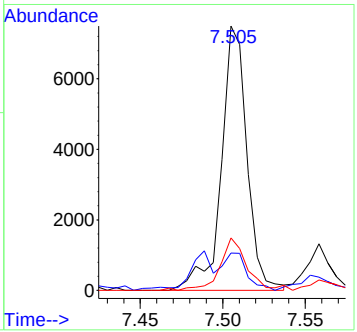


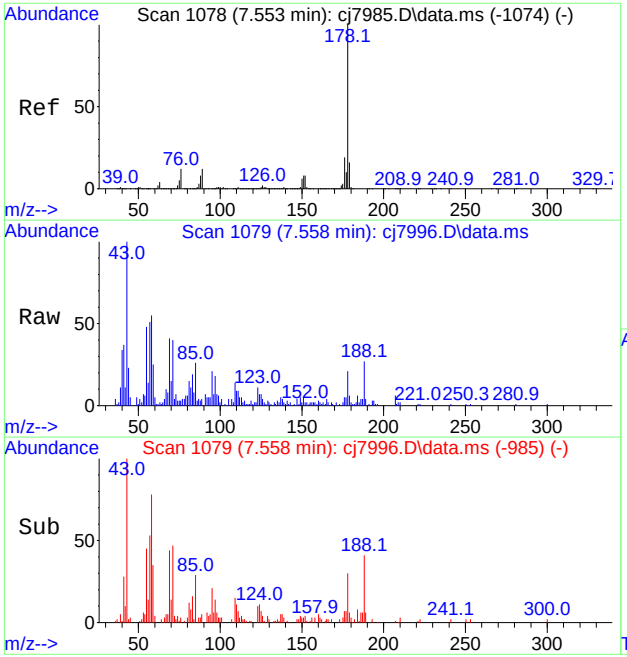


#78
Phenanthrene
Concen: 0.2319 ppm
RT: 7.505 min Scan# 1069
Delta R.T. -0.005 min
Lab File: cj7996.D
Acq: 01 Jul 2024 03:35 pm

Tgt Ion:178 Resp: 8154

Ion	Ratio	Lower	Upper
178	100		
179	13.0	0.0	45.5
176	19.0	0.0	48.7

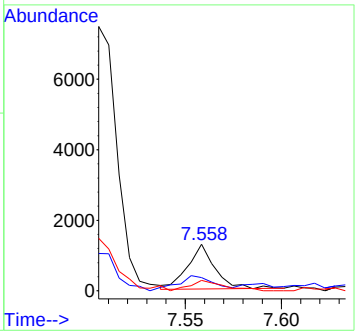


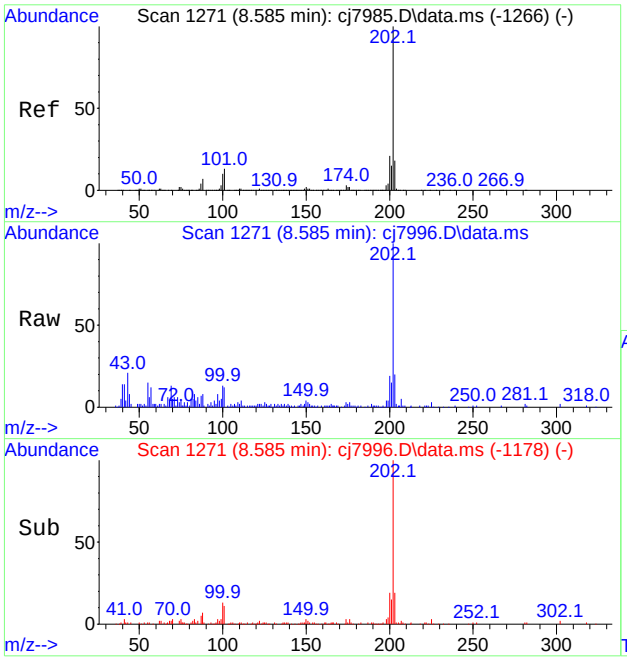


#79
Anthracene
Concen: 0.0358 ppm
RT: 7.558 min Scan# 1079
Delta R.T. 0.005 min
Lab File: cj7996.D
Acq: 01 Jul 2024 03:35 pm

Tgt Ion:178 Resp: 1262

Ion	Ratio	Lower	Upper
178	100		
179	22.3	0.0	45.9
176	18.3	0.0	48.8

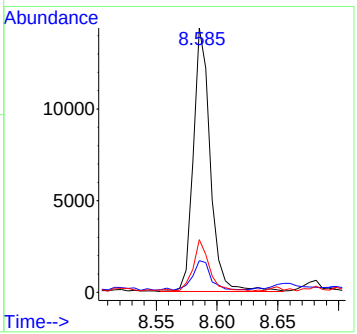


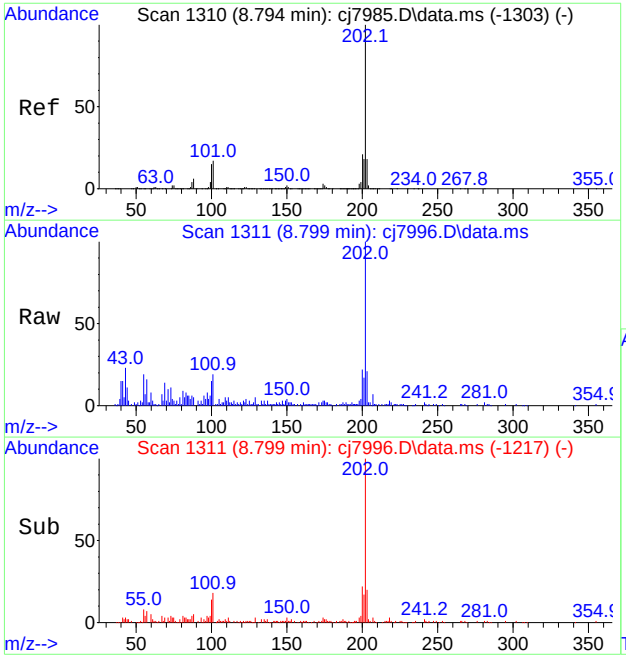


#82
Fluoranthene
Concen: 0.3685 ppm
RT: 8.585 min Scan# 1271
Delta R.T. 0.000 min
Lab File: cj7996.D
Acq: 01 Jul 2024 03:35 pm

Tgt Ion:202 Resp: 14030

Ion	Ratio	Lower	Upper
202	100		
101	9.8	0.0	42.9
203	19.2	0.0	47.5

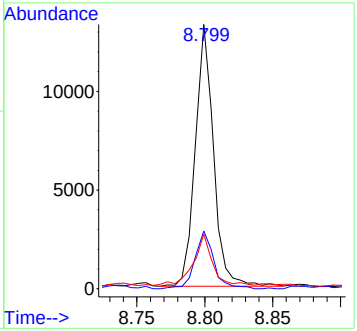


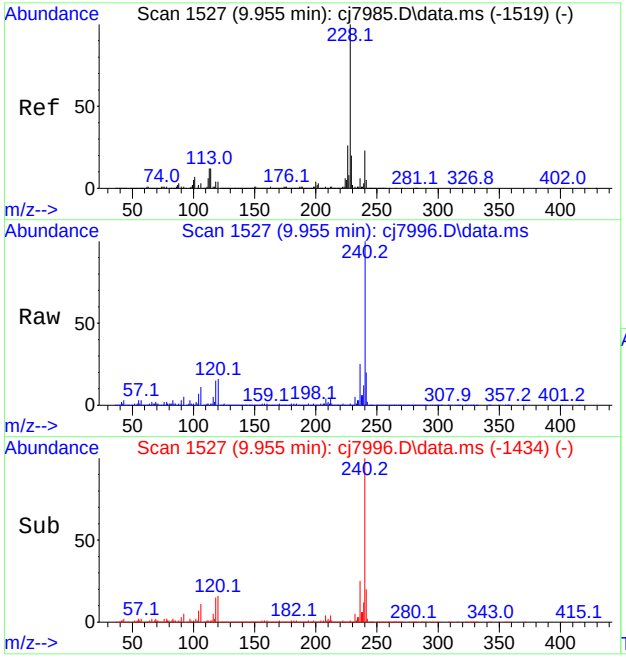


#86
Pyrene
Concen: 0.3084 ppm
RT: 8.799 min Scan# 1311
Delta R.T. 0.005 min
Lab File: cj7996.D
Acq: 01 Jul 2024 03:35 pm

Tgt Ion:202 Resp: 12408

Ion	Ratio	Lower	Upper
202	100		
200	22.1	0.0	51.0
203	19.1	0.0	48.5

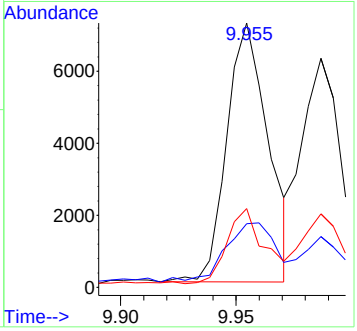


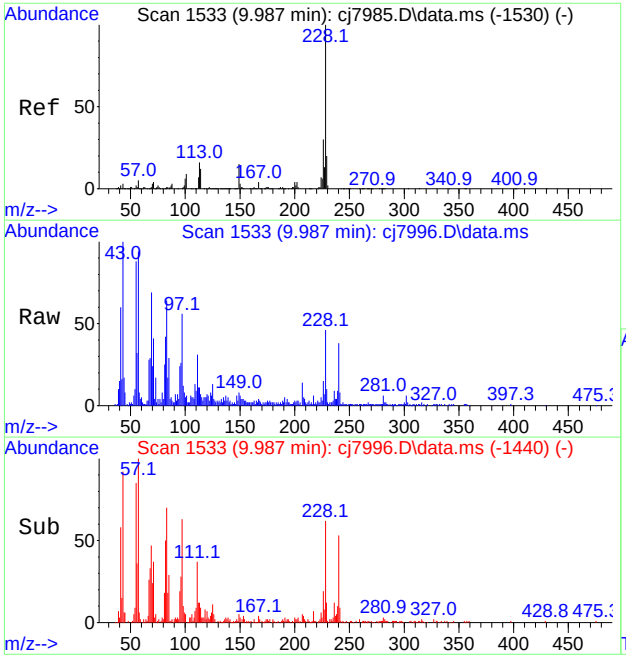


#89
Benzo[a]anthracene
Concen: 0.2363 ppm
RT: 9.955 min Scan# 1527
Delta R.T. 0.000 min
Lab File: cj7996.D
Acq: 01 Jul 2024 03:35 pm

Tgt Ion:228 Resp: 8989

Ion	Ratio	Lower	Upper
228	100		
229	22.4	0.0	49.9
226	29.4	0.0	56.5

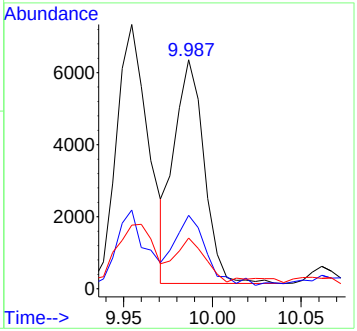


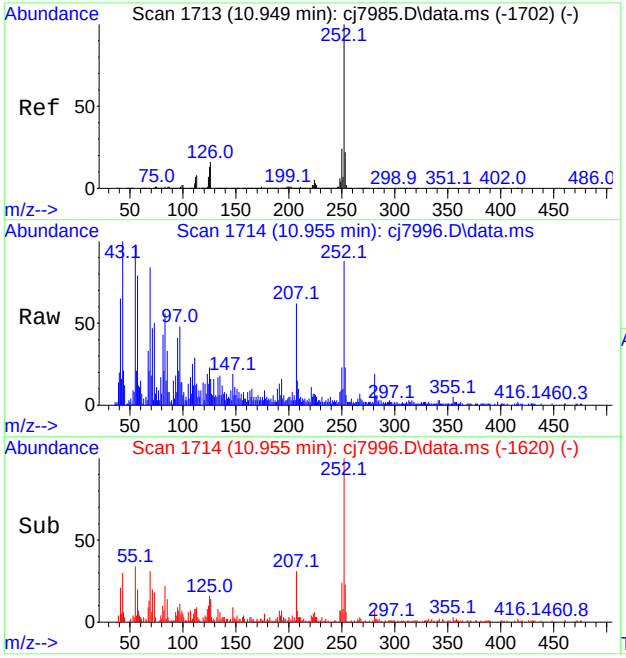


#91
Chrysene
Concen: 0.2089 ppm
RT: 9.987 min Scan# 1533
Delta R.T. 0.000 min
Lab File: cj7996.D
Acq: 01 Jul 2024 03:35 pm

Tgt Ion:228 Resp: 7330

Ion	Ratio	Lower	Upper
228	100		
226	31.9	0.3	60.3
229	19.4	0.0	50.3

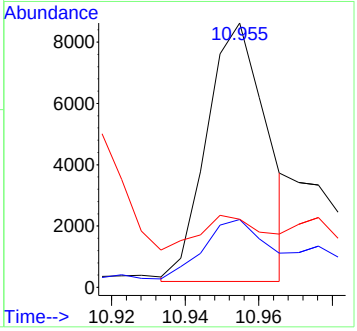


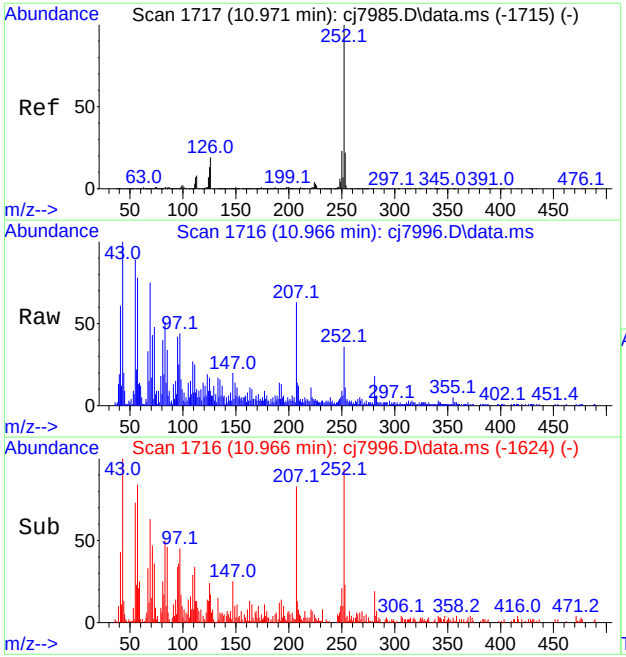


#95
Benzo[b]fluoranthene
Concen: 0.2588 ppm m
RT: 10.955 min Scan# 1714
Delta R.T. 0.005 min
Lab File: cj7996.D
Acq: 01 Jul 2024 03:35 pm

Tgt Ion:252 Resp: 9539

Ion	Ratio	Lower	Upper
252	100		
253	25.7	0.0	52.5
125	25.8	0.0	42.4

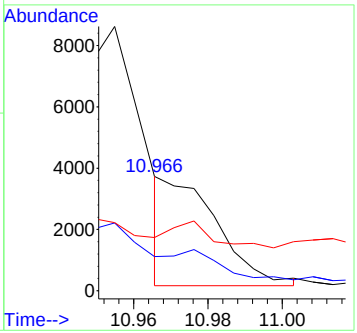


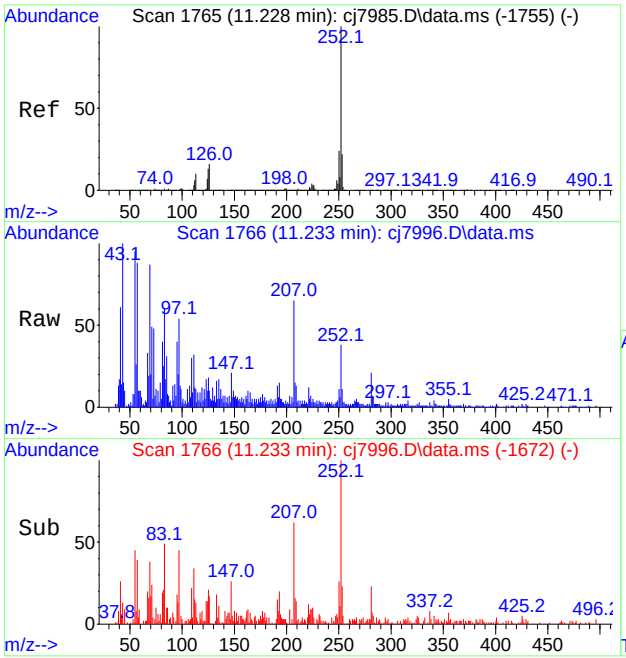


#96
Benzo[k]fluoranthene
Concen: 0.1049 ppm m
RT: 10.966 min Scan# 1716
Delta R.T. -0.005 min
Lab File: cj7996.D
Acq: 01 Jul 2024 03:35 pm

Tgt Ion:252 Resp: 3479

Ion	Ratio	Lower	Upper
252	100		
253	29.9	0.0	51.7
125	46.5	0.0	43.5#

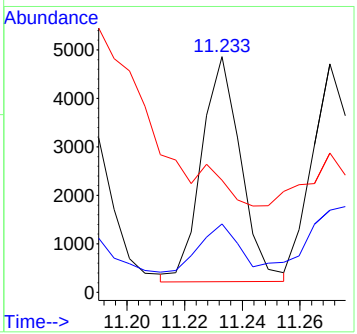


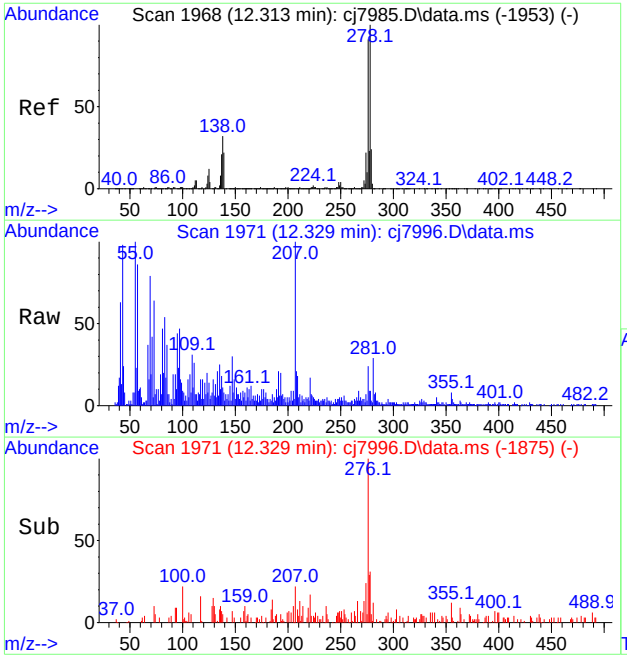


#97
Benzo[a]pyrene
Concen: 0.1440 ppm
RT: 11.233 min Scan# 1766
Delta R.T. 0.005 min
Lab File: cj7996.D
Acq: 01 Jul 2024 03:35 pm

Tgt Ion:252 Resp: 4394

Ion	Ratio	Lower	Upper
252	100		
253	19.9	0.0	52.1
125	0.0	0.0	42.5

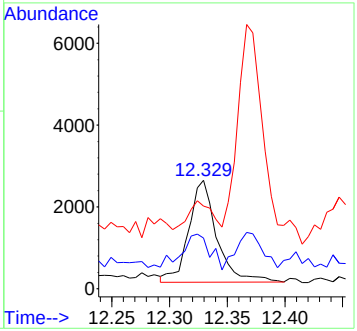


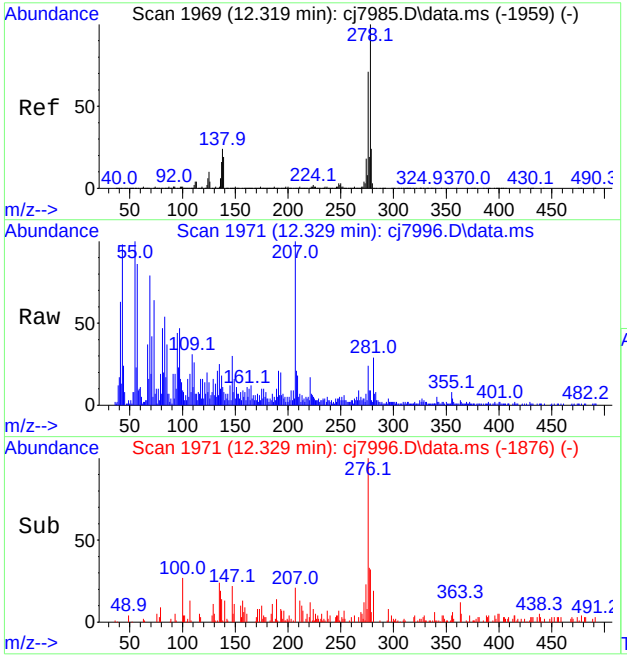


#98
Indeno[1,2,3-cd]pyrene
Concen: 0.1146 ppm
RT: 12.329 min Scan# 1971
Delta R.T. 0.016 min
Lab File: cj7996.D
Acq: 01 Jul 2024 03:35 pm

Tgt Ion:276 Resp: 4228

Ion	Ratio	Lower	Upper
276	100		
138	25.9	5.2	65.2
137	16.3	0.0	53.3

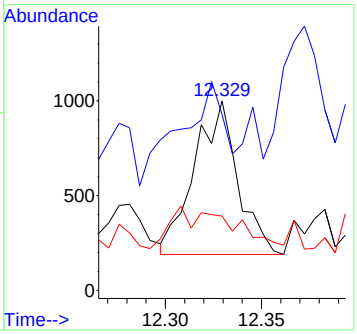


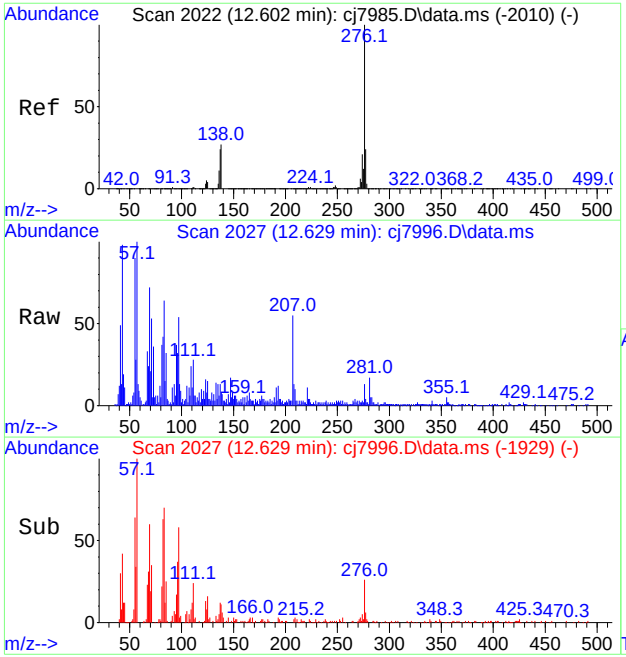


#100
Dibenz[a,h]anthracene
Concen: 0.0429 ppm
RT: 12.329 min Scan# 1971
Delta R.T. 0.011 min
Lab File: cj7996.D
Acq: 01 Jul 2024 03:35 pm

Tgt Ion:278 Resp: 1266

Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	48.9
279	17.4	0.0	53.7

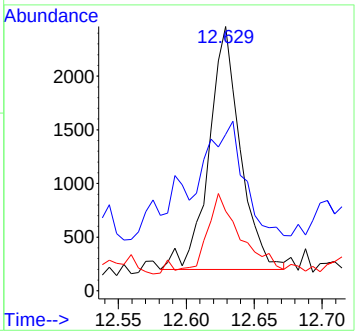




#102
Benzo[g,h,i]perylene
Concen: 0.1264 ppm
RT: 12.629 min Scan# 2027
Delta R.T. 0.027 min
Lab File: cj7996.D
Acq: 01 Jul 2024 03:35 pm

Tgt Ion:276 Resp: 3624

Ion	Ratio	Lower	Upper
276	100		
138	38.0	0.0	57.0
277	25.1	0.0	53.6



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7996.D
Acq On : 01 Jul 2024 03:35 pm
Operator : karimam
Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj7996.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.167	442	445	451	rVV	1013374	1147018	26.29%	2.025%
2	4.210	451	453	466	rVV	332692	333786	7.65%	0.589%
3	4.333	470	476	478	rBV	46402	42269	0.97%	0.075%
4	4.365	478	482	493	rVB	3143946	2252437	51.62%	3.976%
5	4.445	493	497	502	rBV2	55255	48000	1.10%	0.085%
6	4.552	507	517	528	rVV3	242467	405278	9.29%	0.715%
7	4.718	543	548	559	rBV	1523942	1150471	26.36%	2.031%
8	4.793	559	562	573	rVB2	125127	136455	3.13%	0.241%
9	4.938	583	589	598	rBV	786604	487484	11.17%	0.861%
10	5.162	618	631	643	rBV	4530757	3152470	72.24%	5.565%
11	5.617	713	716	725	rVB	87518	83238	1.91%	0.147%
12	5.793	744	749	754	rBV	105466	78767	1.81%	0.139%
13	5.841	754	758	764	rBV	3572492	2272209	52.07%	4.011%
14	5.964	775	781	790	rVB2	69804	98180	2.25%	0.173%
15	6.045	790	796	806	rVB	71823	74233	1.70%	0.131%
16	6.307	841	845	850	rBV	4865259	3420235	78.38%	6.037%
17	6.804	928	938	943	rBV4	23461	48886	1.12%	0.086%
18	6.911	953	958	968	rBV	1076789	941684	21.58%	1.662%
19	7.280	1024	1027	1034	rVB	70374	64179	1.47%	0.113%
20	7.387	1044	1047	1058	rBV4	31228	63282	1.45%	0.112%
21	7.484	1058	1065	1072	rBV	4293553	3708130	84.98%	6.546%
22	7.553	1076	1078	1086	rVB2	46356	41579	0.95%	0.073%
23	7.714	1100	1108	1113	rBV4	30703	45470	1.04%	0.080%
24	7.783	1113	1121	1131	rBV6	23481	56270	1.29%	0.099%
25	7.992	1157	1160	1184	rVB	334375	353414	8.10%	0.624%
26	8.152	1184	1190	1202	rBV5	29097	67446	1.55%	0.119%
27	8.238	1202	1206	1214	rVB4	34254	47705	1.09%	0.084%
28	8.548	1260	1264	1269	rBV7	34186	60056	1.38%	0.106%
29	8.585	1269	1271	1278	rVB	33466	49062	1.12%	0.087%
30	8.655	1278	1284	1286	rBV2	67005	92409	2.12%	0.163%
31	8.676	1286	1288	1295	rVB	47051	44883	1.03%	0.079%
32	8.730	1295	1298	1307	rBV2	181421	209228	4.79%	0.369%
33	8.799	1307	1311	1318	rVB2	32369	43166	0.99%	0.076%
34	8.880	1318	1326	1333	rBV2	127758	212220	4.86%	0.375%
35	8.949	1333	1339	1348	rVB	3255654	2694817	61.76%	4.757%
36	9.216	1377	1389	1393	rBV	77546	82607	1.89%	0.146%
37	9.281	1393	1401	1407	rBV3	62851	164190	3.76%	0.290%
38	9.553	1443	1452	1457	rBV2	58895	72245	1.66%	0.128%
39	9.666	1468	1473	1477	rVB	156786	131447	3.01%	0.232%
40	9.880	1505	1513	1517	rBV	124858	112771	2.58%	0.199%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7996.D
Acq On : 01 Jul 2024 03:35 pm
Operator : karimam
Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.960	1517	1528	1533	rBV	4006627	4363647	100.00%	7.703%
42	10.094	1544	1553	1566	rBV	144816	212312	4.87%	0.375%
43	10.195	1566	1572	1578	rVV2	80976	91282	2.09%	0.161%
44	10.313	1584	1594	1599	rVV	194139	313328	7.18%	0.553%
45	10.409	1606	1612	1619	rVV6	52109	99278	2.28%	0.175%
46	10.500	1624	1629	1634	rVV	278126	272890	6.25%	0.482%
47	10.575	1634	1643	1654	rVV3	387984	1280519	29.35%	2.260%
48	10.645	1654	1656	1661	rVV	119579	154125	3.53%	0.272%
49	10.714	1661	1669	1675	rVV	185733	357739	8.20%	0.631%
50	10.794	1679	1684	1687	rVV	152082	215380	4.94%	0.380%
51	10.848	1687	1694	1699	rVV	171205	303239	6.95%	0.535%
52	10.917	1699	1707	1711	rVV	674468	788138	18.06%	1.391%
53	10.960	1711	1715	1721	rVV2	79896	209227	4.79%	0.369%
54	11.024	1721	1727	1733	rVV2	84792	250511	5.74%	0.442%
55	11.078	1733	1737	1742	rVV	1137693	1102349	25.26%	1.946%
56	11.137	1742	1748	1750	rVV	227244	350218	8.03%	0.618%
57	11.169	1750	1754	1768	rVV4	430742	1471485	33.72%	2.597%
58	11.270	1768	1773	1786	rVV	3512413	4034993	92.47%	7.123%
59	11.361	1786	1790	1797	rVV	169056	376390	8.63%	0.664%
60	11.426	1797	1802	1809	rVV2	161480	431800	9.90%	0.762%
61	11.506	1809	1817	1824	rVV	766063	1121809	25.71%	1.980%
62	11.575	1824	1830	1835	rVV8	116111	344982	7.91%	0.609%
63	11.618	1835	1838	1843	rVV4	112999	235774	5.40%	0.416%
64	11.672	1843	1848	1853	rVV	1156045	1378306	31.59%	2.433%
65	11.714	1853	1856	1859	rVV2	155061	223507	5.12%	0.395%
66	11.752	1859	1863	1867	rVV	317742	461121	10.57%	0.814%
67	11.805	1867	1873	1875	rVV3	213863	437659	10.03%	0.773%
68	11.832	1875	1878	1888	rVV2	267258	621034	14.23%	1.096%
69	11.923	1888	1895	1899	rVV7	84586	250275	5.74%	0.442%
70	11.976	1899	1905	1909	rVV9	74946	215245	4.93%	0.380%
71	12.014	1909	1912	1920	rVV2	106664	253786	5.82%	0.448%
72	12.073	1920	1923	1924	rVV3	55317	64474	1.48%	0.114%
73	12.115	1924	1931	1940	rVV2	110989	357066	8.18%	0.630%
74	12.206	1940	1948	1957	rVV	653535	1115301	25.56%	1.969%
75	12.281	1957	1962	1963	rVV4	61097	108103	2.48%	0.191%
76	12.319	1965	1969	1973	rVV6	68057	153702	3.52%	0.271%
77	12.372	1973	1979	1983	rVV	967460	1548782	35.49%	2.734%
78	12.410	1983	1986	1991	rVV	340621	504895	11.57%	0.891%
79	12.447	1991	1993	1996	rVV3	86817	116374	2.67%	0.205%
80	12.479	1996	1999	2003	rVV4	117888	224222	5.14%	0.396%
81	12.527	2003	2008	2013	rVV	269026	472786	10.83%	0.835%
82	12.586	2013	2019	2025	rVV5	260037	565470	12.96%	0.998%
83	12.634	2025	2028	2035	rVV2	129680	244600	5.61%	0.432%
84	12.699	2035	2040	2045	rVV7	65491	134732	3.09%	0.238%
85	12.752	2045	2050	2065	rVV7	213521	738871	16.93%	1.304%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7996.D
Acq On : 01 Jul 2024 03:35 pm
Operator : karimam
Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.854	2065	2069	2072	rVV6	33632	60660	1.39%	0.107%
87	12.902	2072	2078	2088	rVV6	143195	282421	6.47%	0.499%
88	13.003	2088	2097	2111	rVB8	82041	261069	5.98%	0.461%
89	13.132	2113	2121	2130	rBV2	292992	587196	13.46%	1.037%
90	13.233	2135	2140	2151	rVV2	95858	372848	8.54%	0.658%
91	13.324	2151	2157	2163	rVV3	127122	283750	6.50%	0.501%
92	13.383	2164	2168	2176	rVB6	27554	54807	1.26%	0.097%
93	13.506	2183	2191	2193	rBV8	29055	51971	1.19%	0.092%
94	13.560	2193	2201	2210	rVV2	130123	314664	7.21%	0.555%
95	13.677	2214	2223	2238	rVV10	53258	225595	5.17%	0.398%
96	13.784	2238	2243	2252	rVB8	37104	78761	1.80%	0.139%
97	13.950	2263	2274	2289	rVB7	117400	323836	7.42%	0.572%
98	14.212	2296	2323	2331	rVV7	58853	302895	6.94%	0.535%
99	14.287	2331	2337	2351	rVV8	57642	189352	4.34%	0.334%
100	14.399	2351	2358	2365	rVB9	40519	99645	2.28%	0.176%

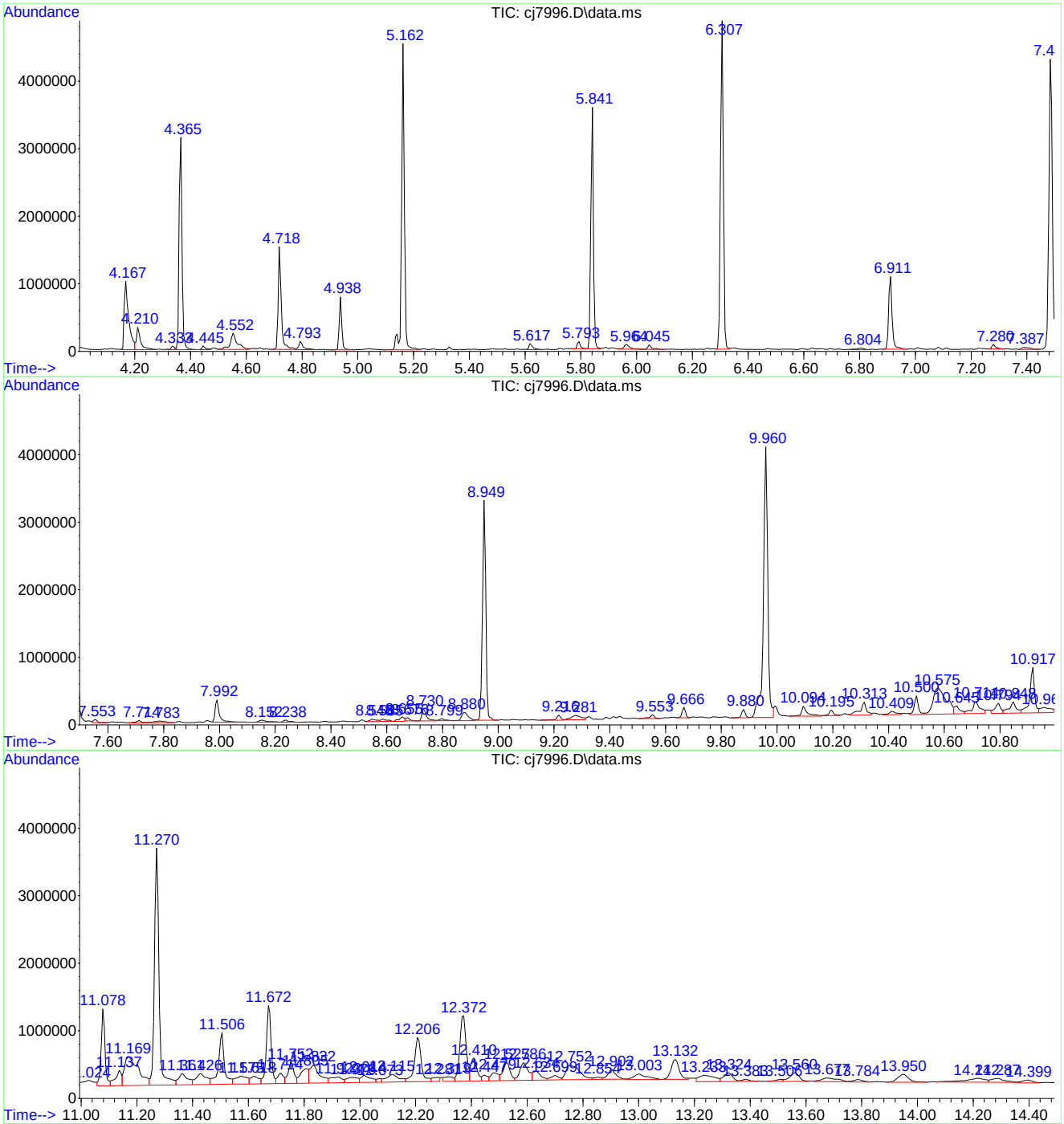
Sum of corrected areas: 56650872

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7996.D
Acq On : 01 Jul 2024 03:35 pm
Operator : karimam
Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7996.D
Acq On : 01 Jul 2024 03:35 pm
Operator : karimam
Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

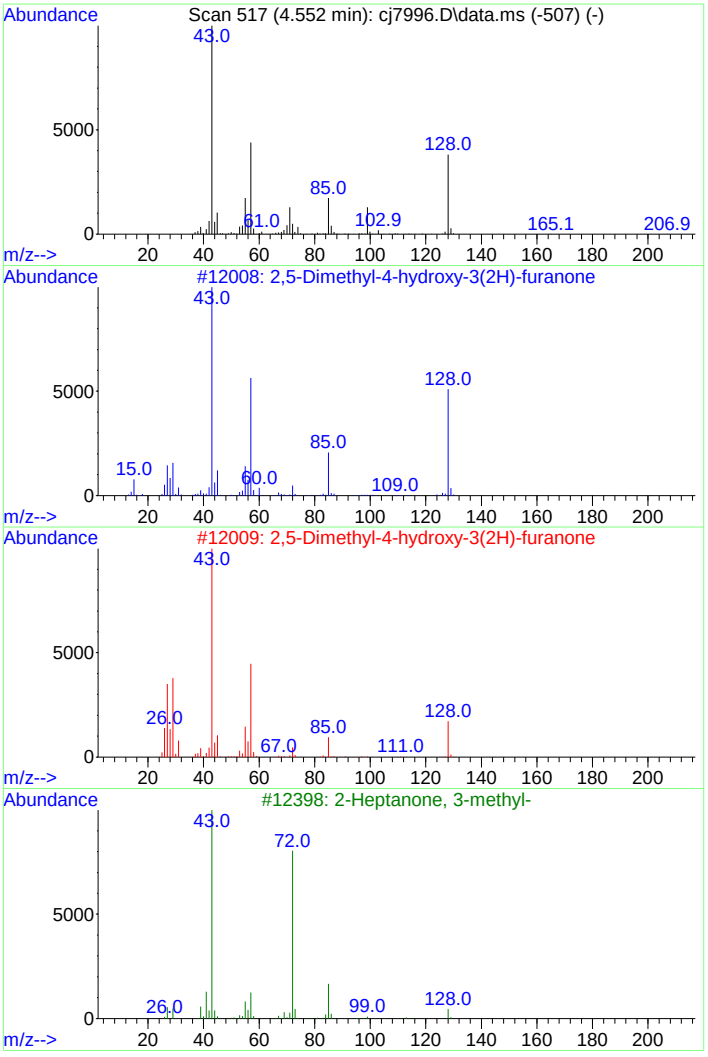
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

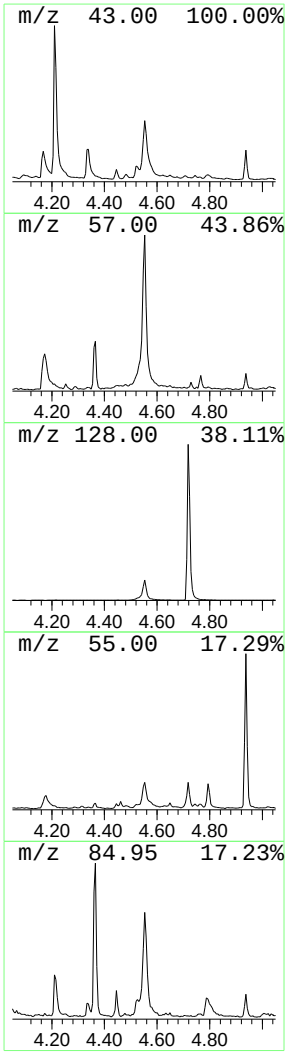
****

Peak Number 1 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.552	7.20 ppm	405278	1,4-Dichlorobenzene-d4a	4.365

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,5-Dimethyl-4-hydroxy-3(2H)-fur...	128	C6H8O3	003658-77-3	81
2	2,5-Dimethyl-4-hydroxy-3(2H)-fur...	128	C6H8O3	003658-77-3	38
3	2-Heptanone, 3-methyl-	128	C8H16O	002371-19-9	38
4	Butanal, 2-ethyl-3-methyl-	114	C7H14O	026254-92-2	17
5	Cyclopropanemethanol, .alpha.-me...	128	C8H16O	024230-08-8	17





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7996.D
Acq On : 01 Jul 2024 03:35 pm
Operator : karimam
Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

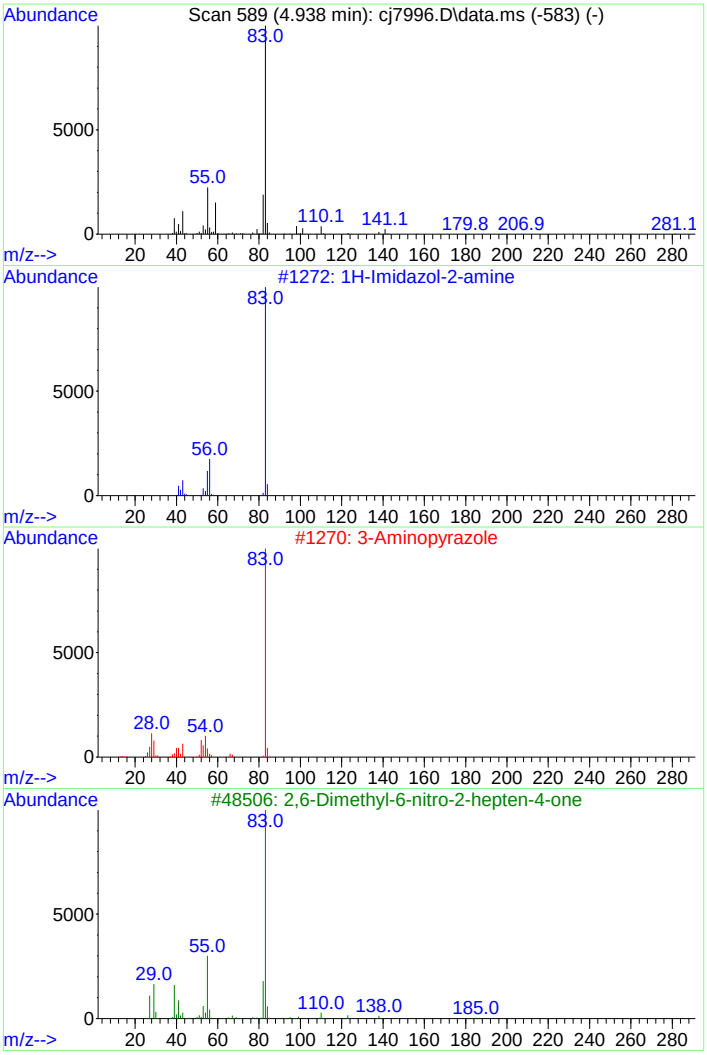
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

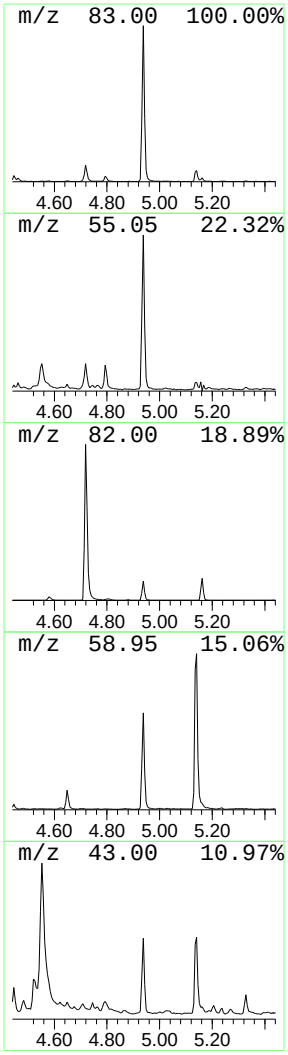
****

Peak Number 2 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.938	6.19 ppm	487484	Naphthalene-d8	5.162

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Imidazol-2-amine	83	C3H5N3	007720-39-0	53
2	3-Aminopyrazole	83	C3H5N3	001820-80-0	50
3	2,6-Dimethyl-6-nitro-2-hepten-4-one	185	C9H15NO3	073583-56-9	50
4	2-Butenoic acid, 3-methyl-, ethy...	128	C7H12O2	000638-10-8	39
5	3-Methyl-2-butenoic acid, tridec...	278	C18H30O2	1000299-31-7	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7996.D
Acq On : 01 Jul 2024 03:35 pm
Operator : karimam
Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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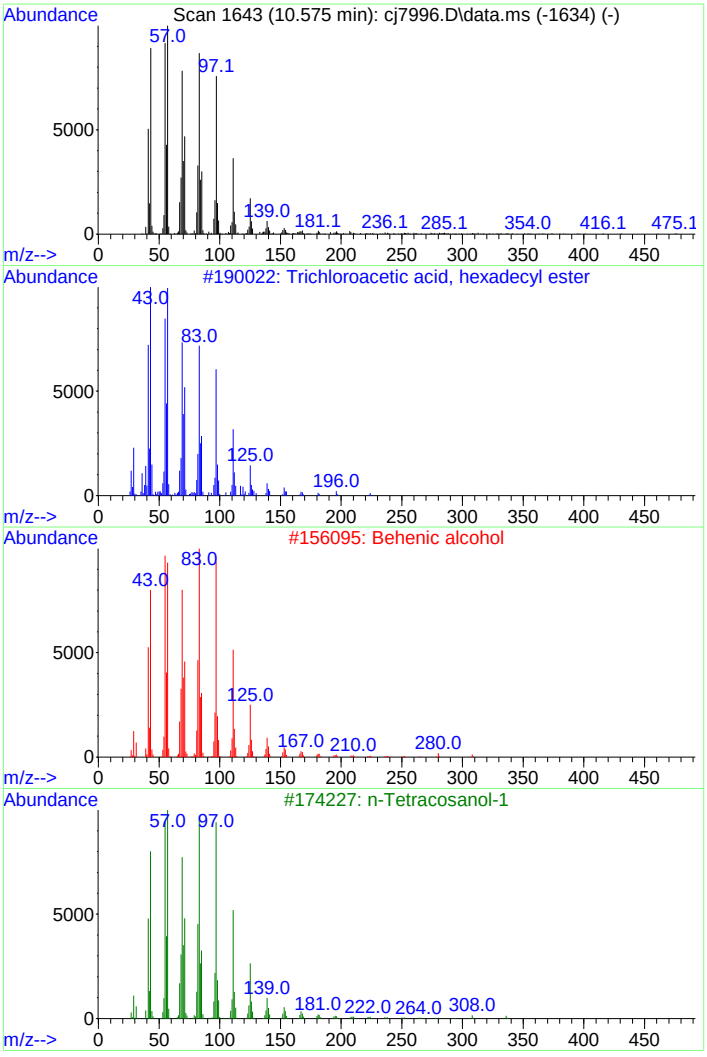
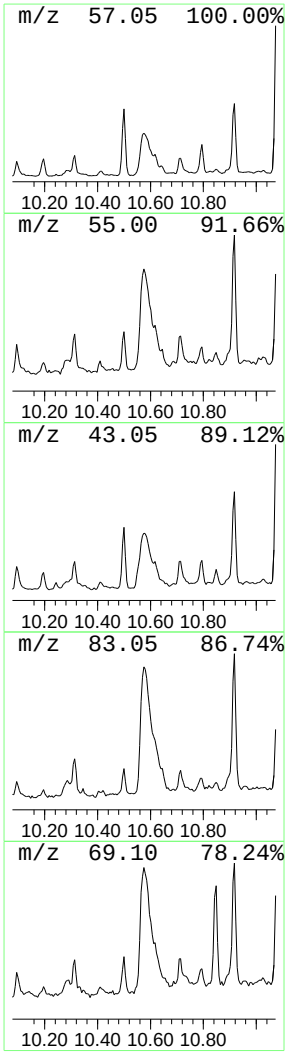
Peak Number 3 Unknown alcohol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.575	11.74 ppm	1280520	Chrysene-d12a	9.960

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
2	Behenic alcohol	326	C22H46O	000661-19-8	94
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
4	1-Heneicosyl formate	340	C22H44O2	077899-03-7	94
5	1-Heneicosanol	312	C21H44O	015594-90-8	94





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Acq On : 01 Jul 2024 03:35 pm
Operator : karimam
Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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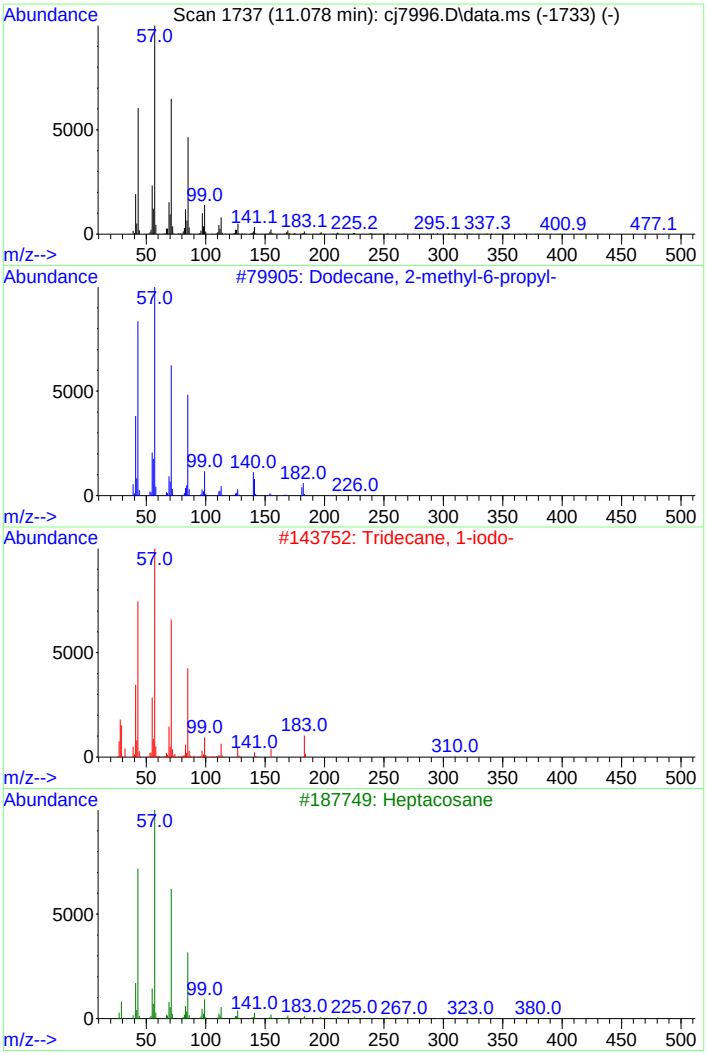
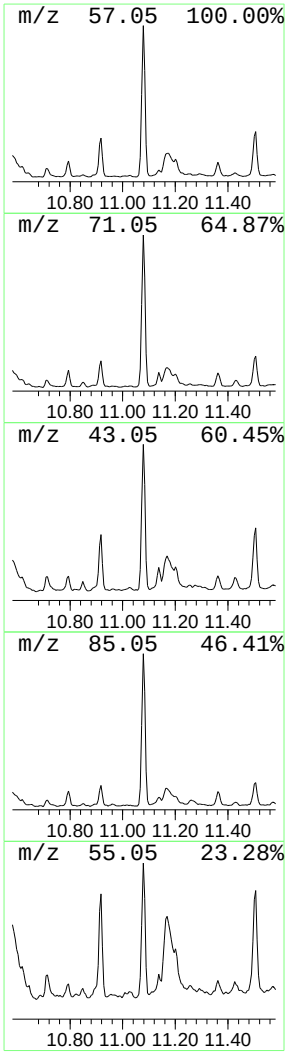
Peak Number 4 Alkane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.078	10.93 ppm	1102350	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	93
2	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	91
3	Heptacosane	380	C27H56	000593-49-7	91
4	Octacosane	394	C28H58	000630-02-4	91
5	Tetratriacontane	479	C34H70	014167-59-0	91





Library Search Compound Report

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Acq On : 01 Jul 2024 03:35 pm
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Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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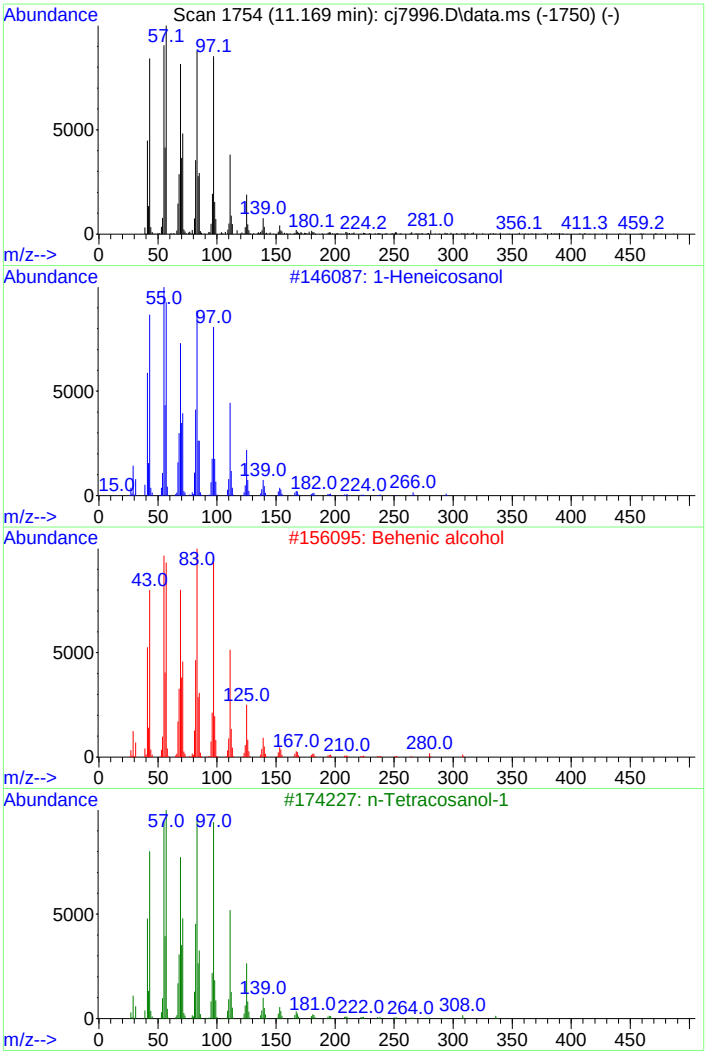
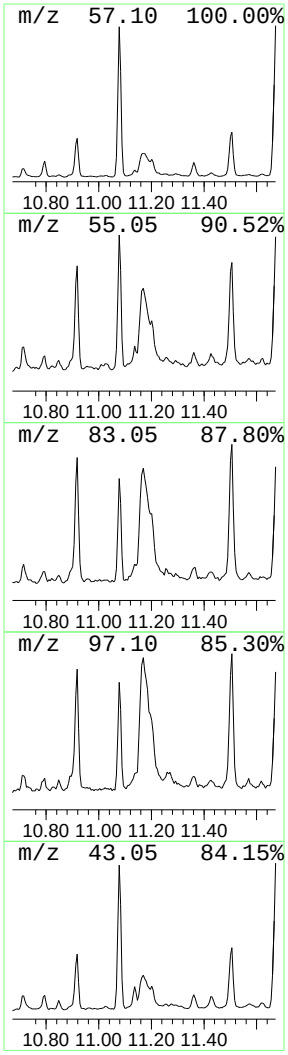
Peak Number 5 Unknown alcohol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.169	14.59 ppm	1471490	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	95
2	Behenic alcohol	326	C22H46O	000661-19-8	94
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
4	Cyclopentadecane	210	C15H30	000295-48-7	93
5	1-Heptacosanol	396	C27H56O	002004-39-9	91





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Acq On : 01 Jul 2024 03:35 pm
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Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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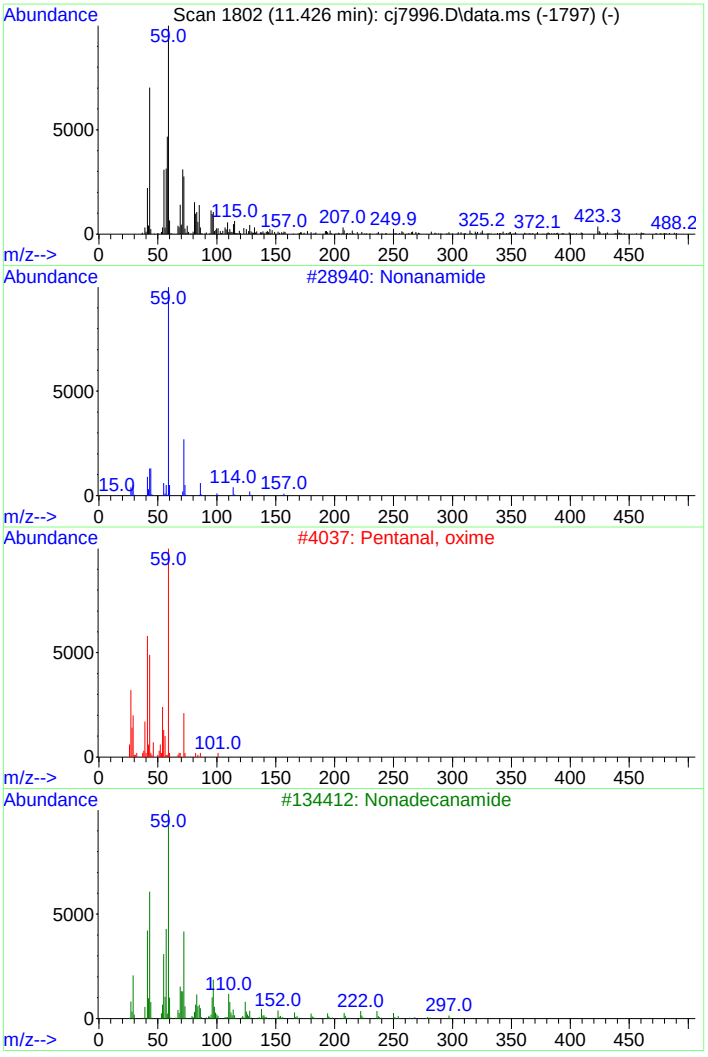
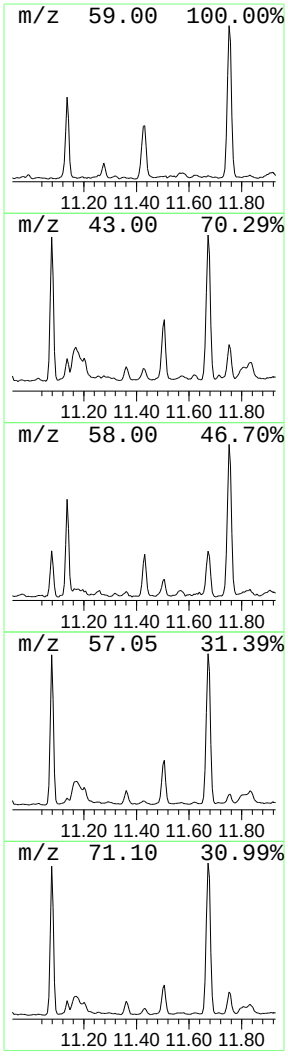
Peak Number 6 Unknown Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.426	4.28 ppm	431800	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonanamide	157	C9H19NO	001120-07-6	47
2	Pentanal, oxime	101	C5H11NO	000628-79-5	43
3	Nonadecanamide	297	C19H39NO	058185-32-3	38
4	3-Tetradecanol	214	C14H30O	001653-32-3	38
5	Dodecanamide	199	C12H25NO	001120-16-7	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7996.D
Acq On : 01 Jul 2024 03:35 pm
Operator : karimam
Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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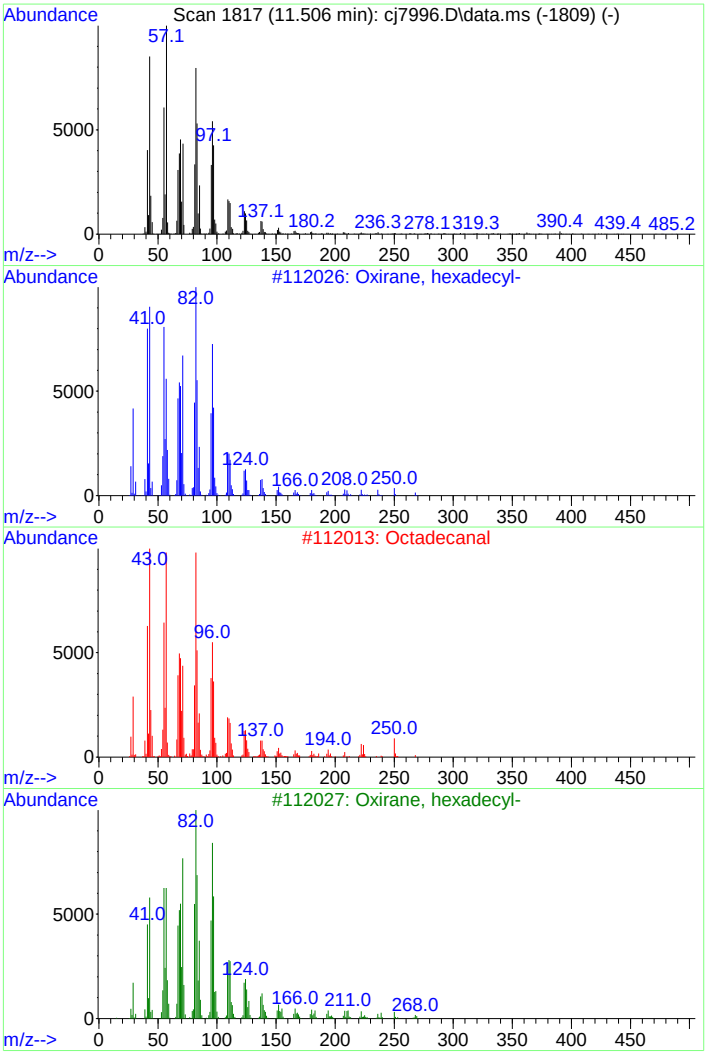
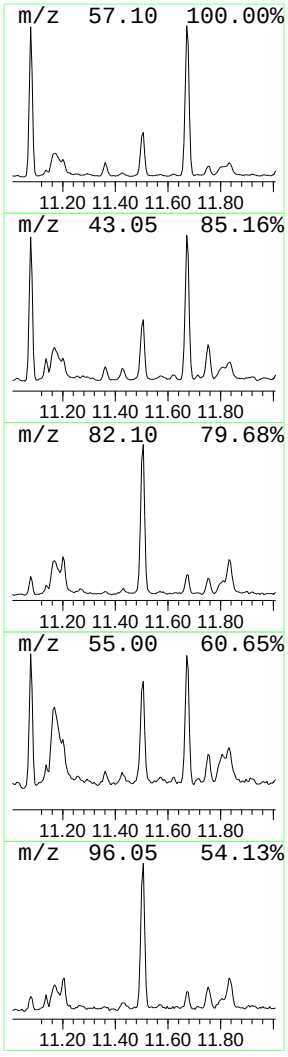
Peak Number 7 Unknown alcohol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.506	11.12 ppm	1121810	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
2	Octadecanal	268	C18H36O	000638-66-4	91
3	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
4	Octadecanal	268	C18H36O	000638-66-4	91
5	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	90





Library Search Compound Report

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Data File : cj7996.D
Acq On : 01 Jul 2024 03:35 pm
Operator : karimam
Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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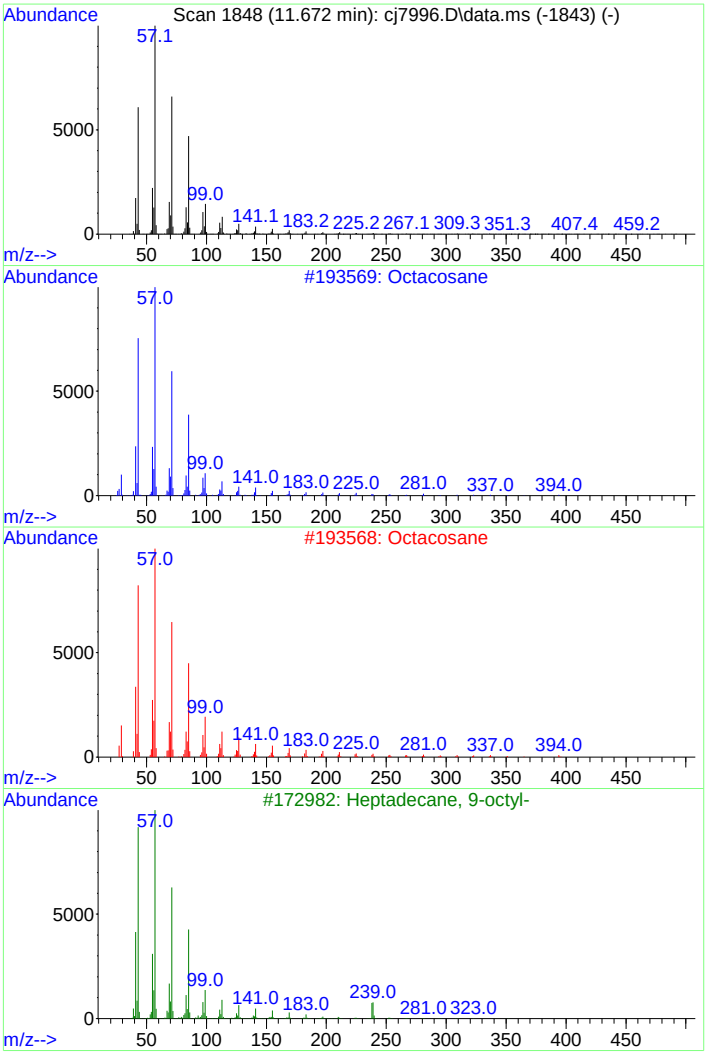
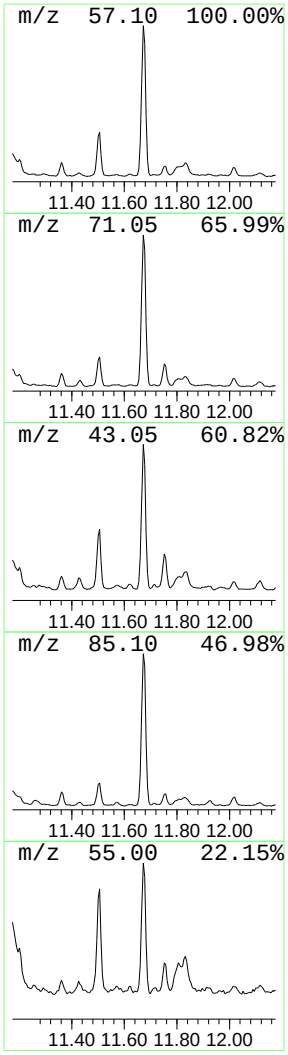
Peak Number 8 Alkane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.672	13.66 ppm	1378310	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	98
2	Octacosane	394	C28H58	000630-02-4	97
3	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	92
4	Heptacosane	380	C27H56	000593-49-7	91
5	Heneicosane	296	C21H44	000629-94-7	90





Library Search Compound Report

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Acq On : 01 Jul 2024 03:35 pm
Operator : karimam
Sample : jd91204-8
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ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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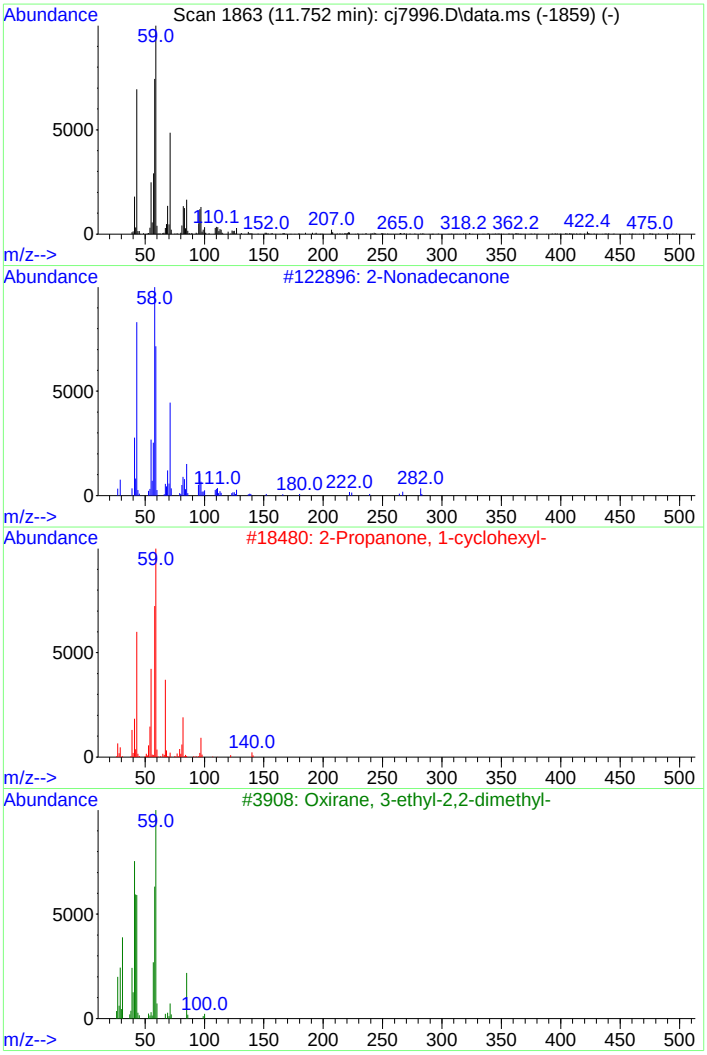
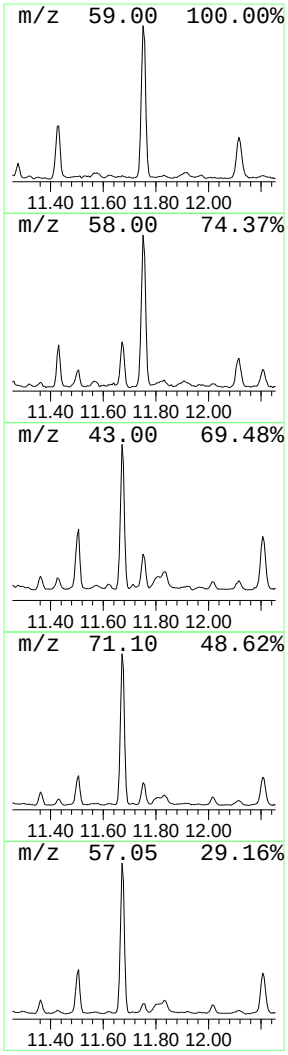
Peak Number 9 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.752	4.57 ppm	461121	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Nonadecanone	282	C19H38O	000629-66-3	64
2	2-Propanone, 1-cyclohexyl-	140	C9H16O	000103-78-6	53
3	Oxirane, 3-ethyl-2,2-dimethyl-	100	C6H12O	001192-22-9	53
4	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	52
5	2-Tridecanone	198	C13H26O	000593-08-8	50





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Acq On : 01 Jul 2024 03:35 pm
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Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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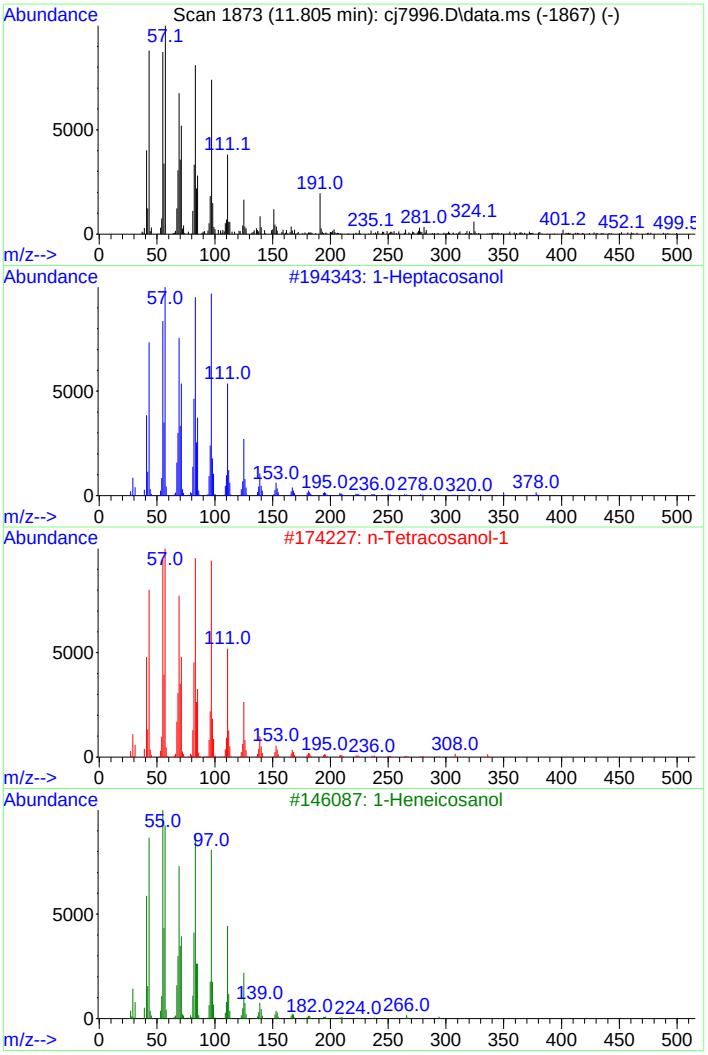
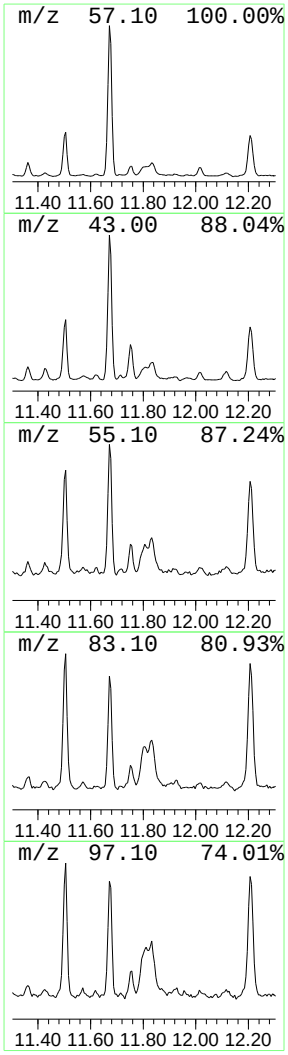
Peak Number 10 Unknown alcohol Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.805	4.34 ppm	437659	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heptacosanol	396	C27H56O	002004-39-9	90
2	n-Tetracosanol-1	354	C24H50O	000506-51-4	90
3	1-Heneicosanol	312	C21H44O	015594-90-8	90
4	1-Hexacosene	364	C26H52	018835-33-1	90
5	9-Tricosene, (Z)-	322	C23H46	027519-02-4	90





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Acq On : 01 Jul 2024 03:35 pm
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Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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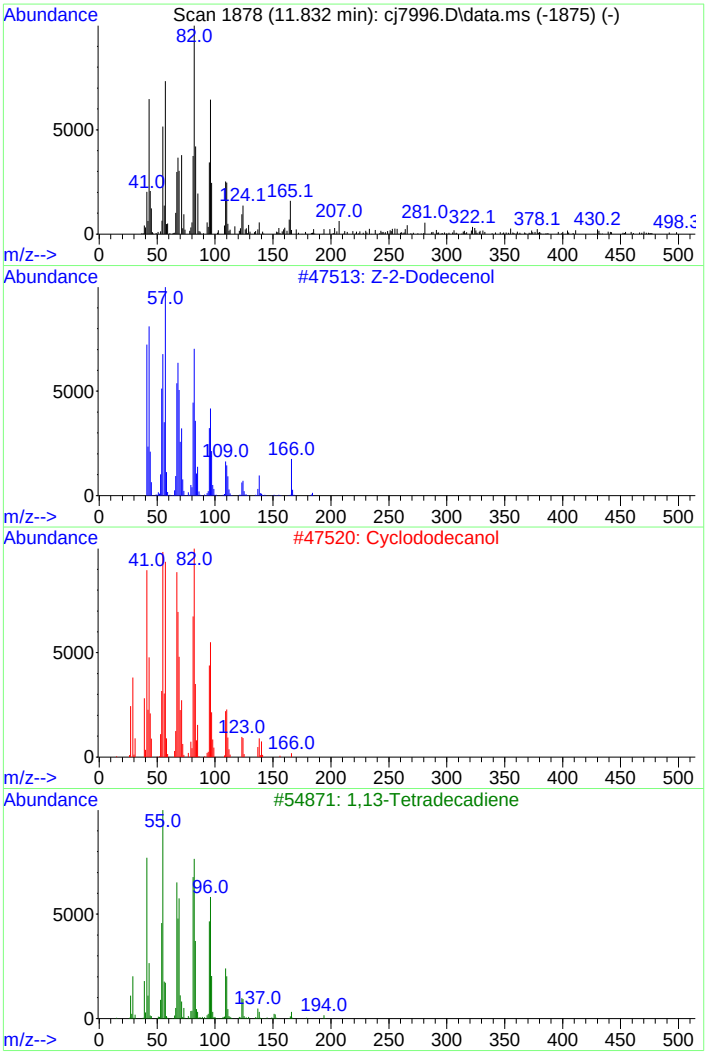
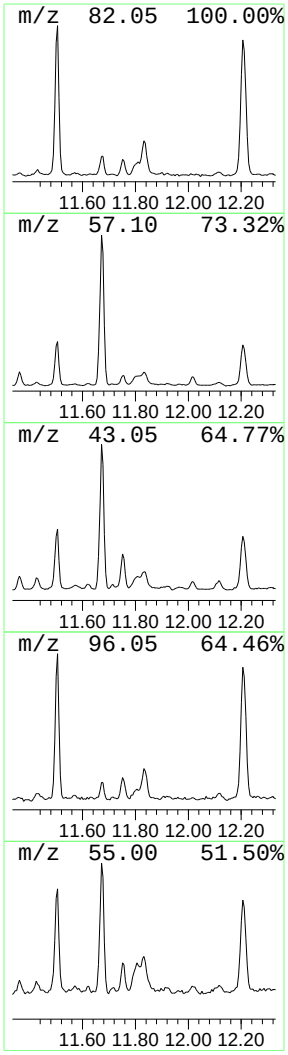
Peak Number 11 Unknown alcohol Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.832	6.16 ppm	621034	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Z-2-Dodecenol	184	C12H24O	069064-36-4	83
2	Cyclododecanol	184	C12H24O	001724-39-6	78
3	1,13-Tetradecadiene	194	C14H26	021964-49-8	74
4	trans-2-Undecen-1-ol	170	C11H22O	075039-84-8	72
5	Hexadecanal	240	C16H32O	000629-80-1	64





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Data File : cj7996.D
Acq On : 01 Jul 2024 03:35 pm
Operator : karimam
Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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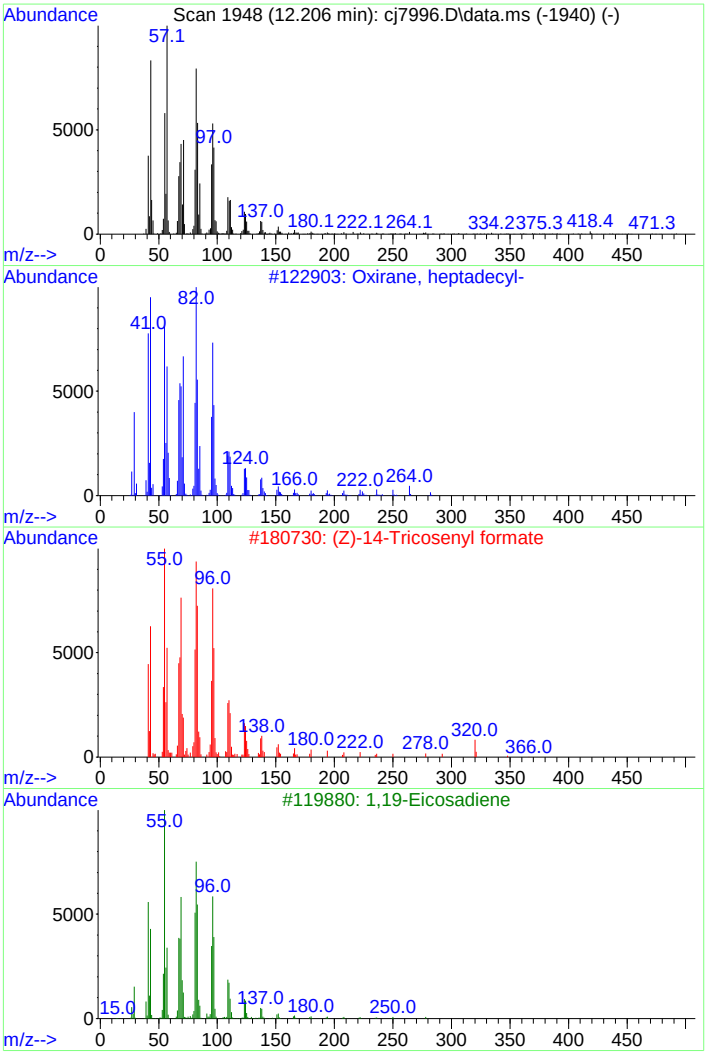
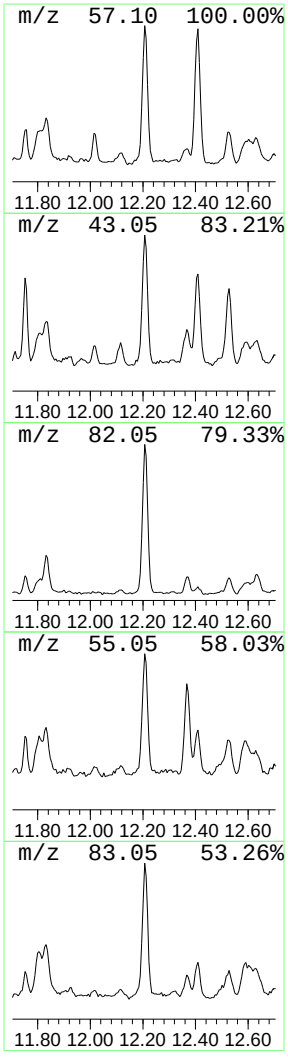
Peak Number 12 Unknown alcohol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.206	11.06 ppm	1115300	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	91
2	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	90
3	1,19-Eicosadiene	278	C20H38	014811-95-1	90
4	Octadecanal	268	C18H36O	000638-66-4	87
5	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	87





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Data File : cj7996.D
Acq On : 01 Jul 2024 03:35 pm
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Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

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TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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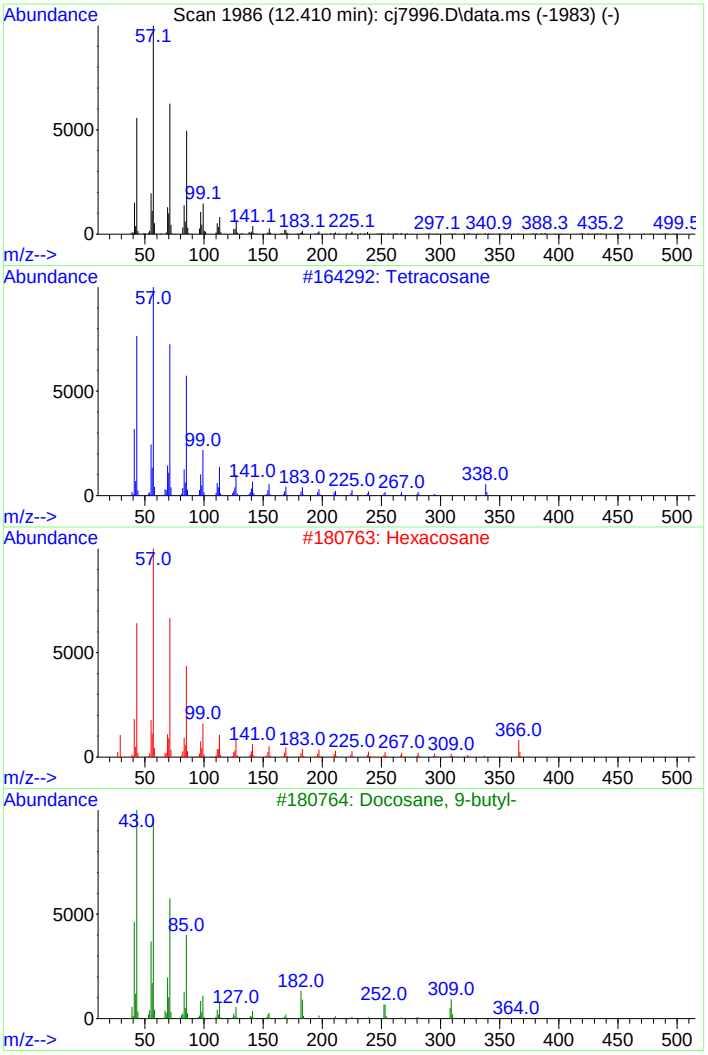
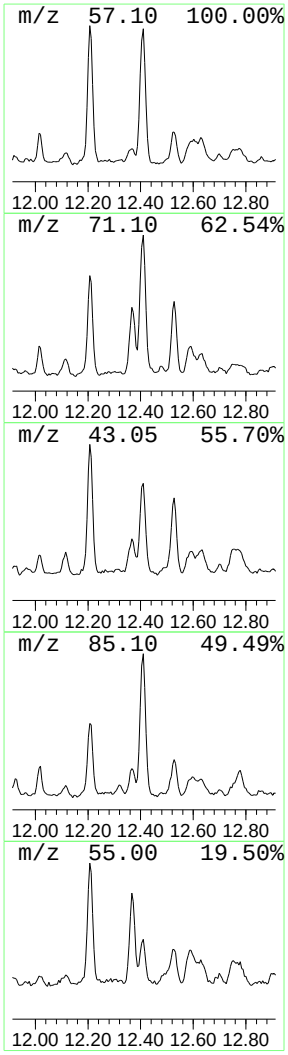
Peak Number 13 Alkane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.410	5.01 ppm	504895	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	97
2	Hexacosane	366	C26H54	000630-01-3	94
3	Docosane, 9-butyl-	366	C26H54	055282-14-9	94
4	Octacosane	394	C28H58	000630-02-4	91
5	Tricosane	324	C23H48	000638-67-5	91





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Data File : cj7996.D
Acq On : 01 Jul 2024 03:35 pm
Operator : karimam
Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

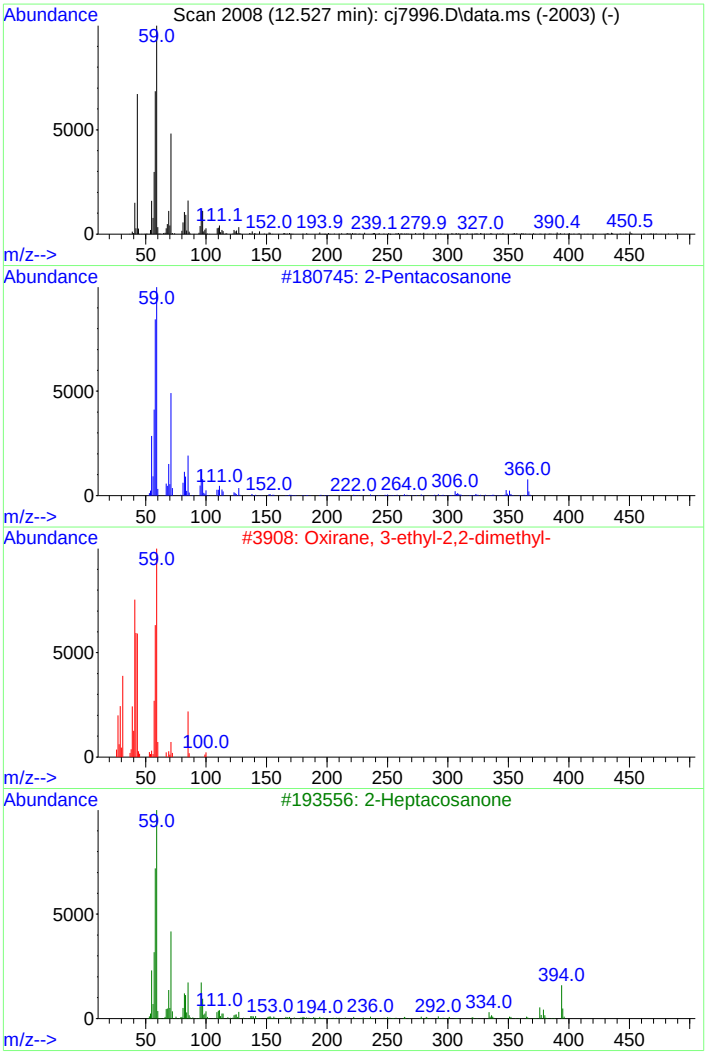
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

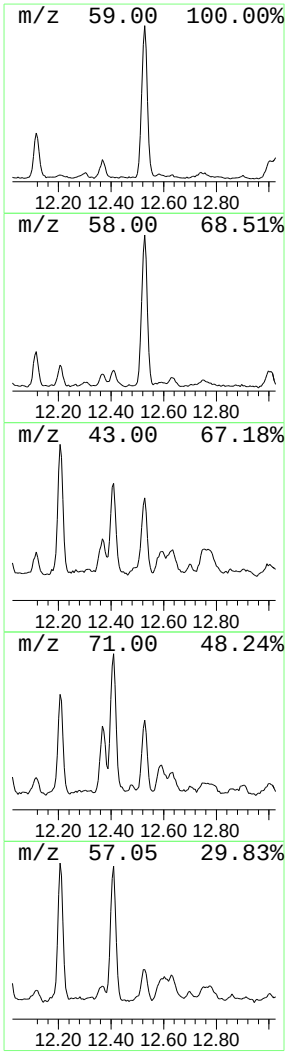
****

Peak Number 14 Unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.527	4.69 ppm	472786	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentacosanone	366	C25H50O	075207-54-4	91
2	Oxirane, 3-ethyl-2,2-dimethyl-	100	C6H12O	001192-22-9	52
3	2-Heptacosanone	394	C27H54O	007796-19-2	50
4	Octanal, 7-hydroxy-3,7-dimethyl-	172	C10H20O2	000107-75-5	50
5	2-Nonadecanone	282	C19H38O	000629-66-3	47





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7996.D
Acq On : 01 Jul 2024 03:35 pm
Operator : karimam
Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

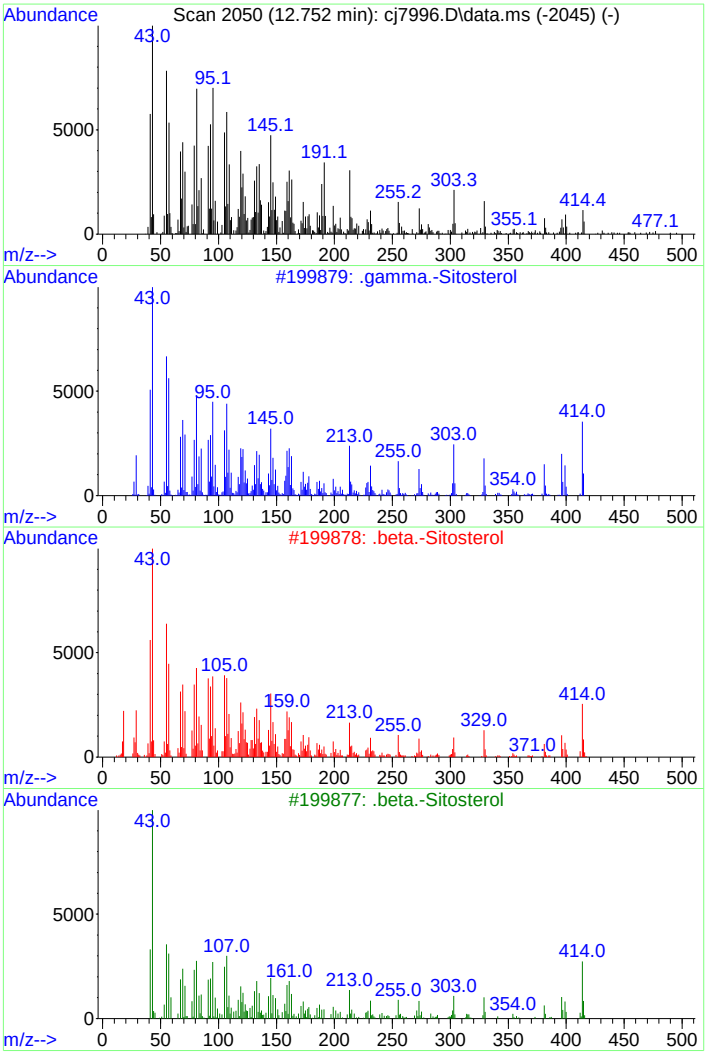
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

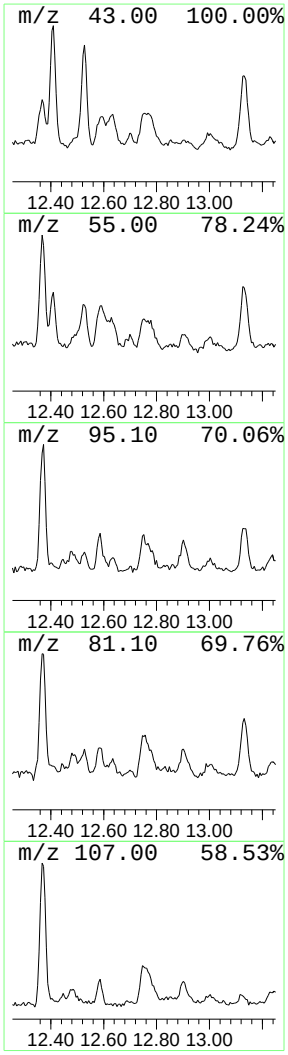
****

Peak Number 15 Sitosterol Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.752	7.32 ppm	738871	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	98
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	94
4	.gamma.-Sitosterol	414	C29H50O	000083-47-6	87
5	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	76





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7996.D
Acq On : 01 Jul 2024 03:35 pm
Operator : karimam
Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

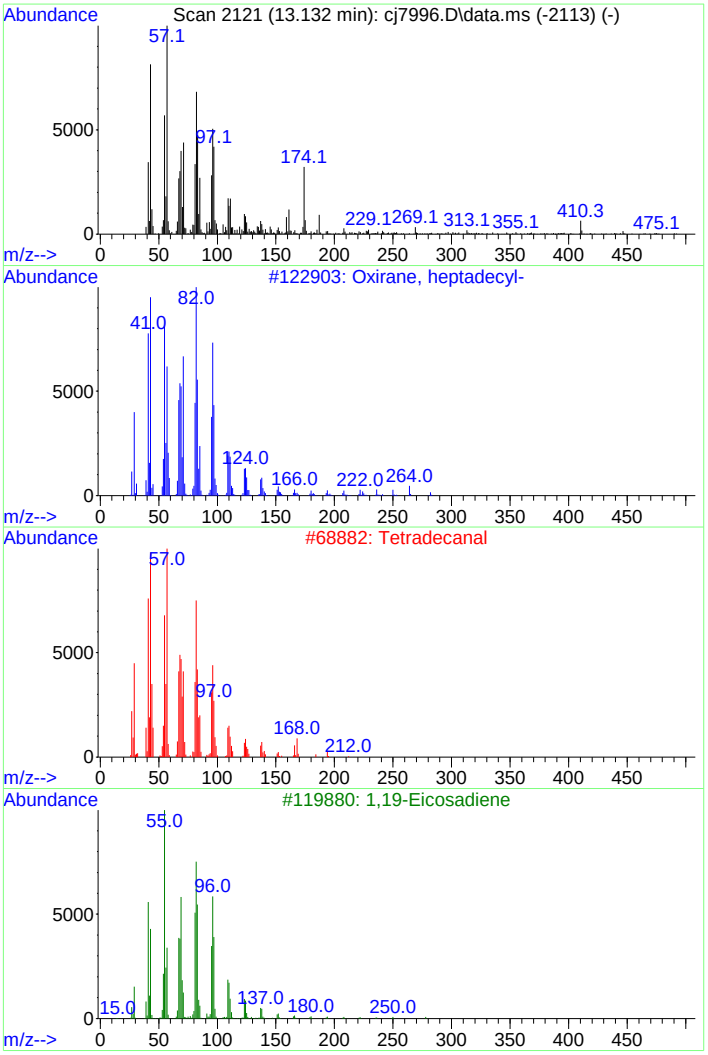
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

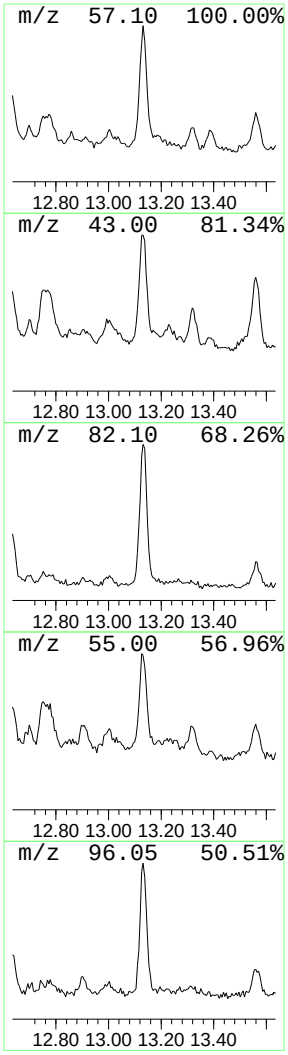
****

Peak Number 16 Unknown alcohol Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.132	5.82 ppm	587196	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	94
2	Tetradecanal	212	C14H28O	000124-25-4	72
3	1,19-Eicosadiene	278	C20H38	014811-95-1	62
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	62
5	Octadecanal	268	C18H36O	000638-66-4	58





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7996.D
Acq On : 01 Jul 2024 03:35 pm
Operator : karimam
Sample : jd91204-8
Misc : op55759,ecj348,30.9,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.552	7.2	ppm	405278	2	4.365	2252440	40.0
Unknown	4.938	6.2	ppm	487484	3	5.162	3152470	40.0
Unknown alcohol	10.575	11.7	ppm	1280520	10	9.960	4363650	40.0
Alkane	11.078	10.9	ppm	1102350	11	11.270	4034990	40.0
Unknown alcohol	11.169	14.6	ppm	1471490	11	11.270	4034990	40.0
Unknown	11.426	4.3	ppm	431800	11	11.270	4034990	40.0
Unknown alcohol	11.506	11.1	ppm	1121810	11	11.270	4034990	40.0
Alkane	11.672	13.7	ppm	1378310	11	11.270	4034990	40.0
Unknown	11.752	4.6	ppm	461121	11	11.270	4034990	40.0
Unknown alcohol	11.805	4.3	ppm	437659	11	11.270	4034990	40.0
Unknown alcohol	11.832	6.2	ppm	621034	11	11.270	4034990	40.0
Unknown alcohol	12.206	11.1	ppm	1115300	11	11.270	4034990	40.0
Alkane	12.410	5.0	ppm	504895	11	11.270	4034990	40.0
Unknown	12.527	4.7	ppm	472786	11	11.270	4034990	40.0
Sitosterol	12.752	7.3	ppm	738871	11	11.270	4034990	40.0
Unknown alcohol	13.132	5.8	ppm	587196	11	11.270	4034990	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 07/02/24 05:10

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9 Inst : GCMSCJ
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 02 04:35:58 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.365	152	369120	40.00	ppm	0.00
24) Naphthalene-d8	5.162	136	1340519	40.00	ppm	0.00
46) Acenaphthene-d10	6.312	164	755648	40.00	ppm	0.00
69) Phenanthrene-d10	7.494	188	1385878	40.00	ppm	0.00
84) Chrysene-d12	9.971	240	1063229	40.00	ppm	0.01
93) Perylene-d12	11.286	264	1101182	40.00	ppm	0.02
103) 1,4-Dichlorobenzene-d4a	4.365	152	369120	40.00	ppm	0.00
105) Phenanthrene-d10a	7.494	188	1385878	40.00	ppm	0.00
107) Naphthalene-d8a	5.162	136	1340519	40.00	ppm	0.00
109) Phenanthrene-d10b	7.494	188	1385878	40.00	ppm	0.00
112) Chrysene-d12a	9.971	240	1063229	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.552	112	207296	19.54	ppm	0.03
Spiked Amount 50.000			Recovery = 39.08%			
8) Phenol-d5	4.178	99	291241	21.28	ppm	0.02
Spiked Amount 50.000			Recovery = 42.56%			
25) Nitrobenzene-d5	4.718	82	284649	20.74	ppm	0.00
Spiked Amount 50.000			Recovery = 41.48%			
51) 2-Fluorobiphenyl	5.841	172	565058	23.76	ppm	0.00
Spiked Amount 50.000			Recovery = 47.52%			
74) 2,4,6-Tribromophenol	6.917	330	73196	24.09	ppm	0.00
Spiked Amount 50.000			Recovery = 48.18%			
87) Terphenyl-d14	8.960	244	632638	24.08	ppm	0.01
Spiked Amount 50.000			Recovery = 48.16%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
18) Acetophenone	4.627	105	4995	0.2944	ppm	90
21) 3&4-Methylphenol	4.659	108	2432	0.2309	ppm	98
38) Naphthalene	5.178	128	44629	1.3898	ppm	98
44) 2-Methylnaphthalene	5.612	141	16179	0.8498	ppm	94
53) Biphenyl	5.911	154	9089	0.3501	ppm	99
56) Acenaphthylene	6.216	152	136923	4.6718	ppm	98
59) Acenaphthene	6.334	153	29692	1.4246	ppm	99
62) Dibenzofuran	6.462	168	19917	0.6886	ppm	96
66) Fluorene	6.724	166	45622m	1.9967	ppm	
78) Phenanthrene	7.510	178	666779	19.9081	ppm	99
79) Anthracene	7.558	178	226657	6.7585	ppm	98
80) Carbazole	7.708	167	45034	1.4411	ppm	98
81) Di-n-butylphthalate	8.013	149	10125	0.2622	ppm	99
82) Fluoranthene	8.591	202	1100213	30.3426	ppm	99
86) Pyrene	8.805	202	1096307	30.3192	ppm	99
89) Benzo[a]anthracene	9.965	228	464331	13.5827	ppm	94
91) Chrysene	9.997	228	506926	16.0723	ppm	98
92) bis(2-Ethylhexyl)phtha...	10.008	149	22047	0.9227	ppm	98
95) Benzo[b]fluoranthene	10.960	252	541440m	16.2765	ppm	
96) Benzo[k]fluoranthene	10.976	252	171709m	5.7364	ppm	
97) Benzo[a]pyrene	11.238	252	370276	13.4461	ppm	100
98) Indeno[1,2,3-cd]pyrene	12.329	276	221683	6.6590	ppm	89
100) Dibenz[a,h]anthracene	12.329	278	71259	2.6789	ppm	94
102) Benzo[g,h,i]perylene	12.629	276	227939	8.8107	ppm	98
104) Benzaldehyde	4.109	105	8610	0.8149	ppm	88

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9 Inst : GCMSCJ
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 02 04:35:58 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

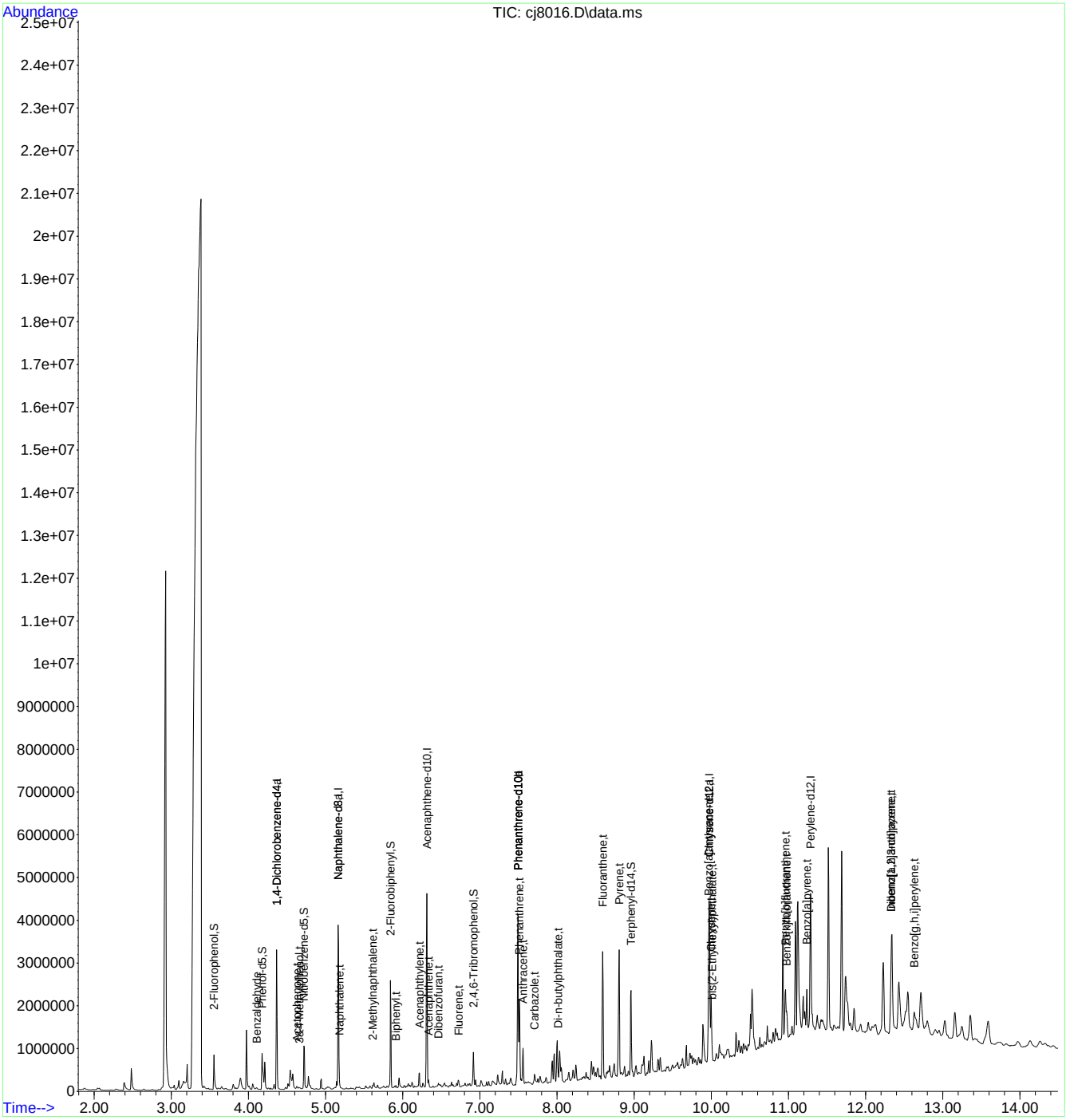
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

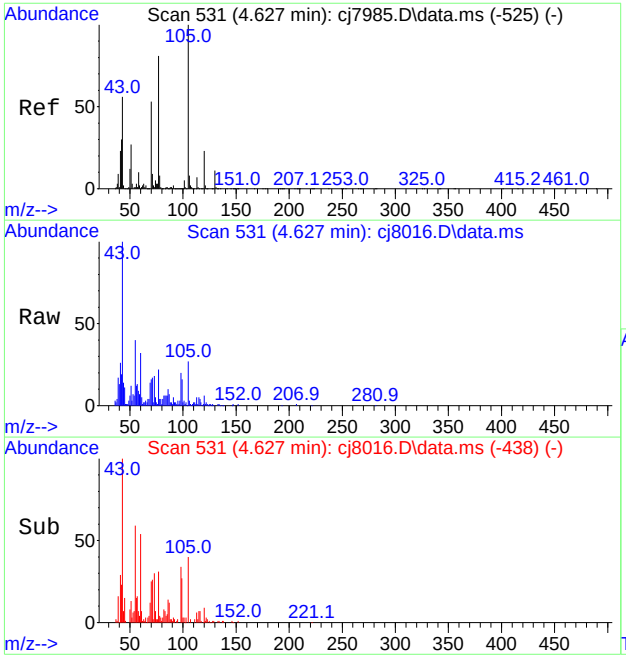
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9 Inst : GCMSCJ
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 02 04:35:58 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

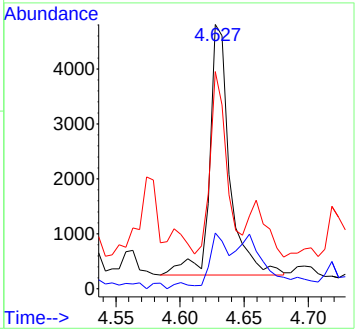


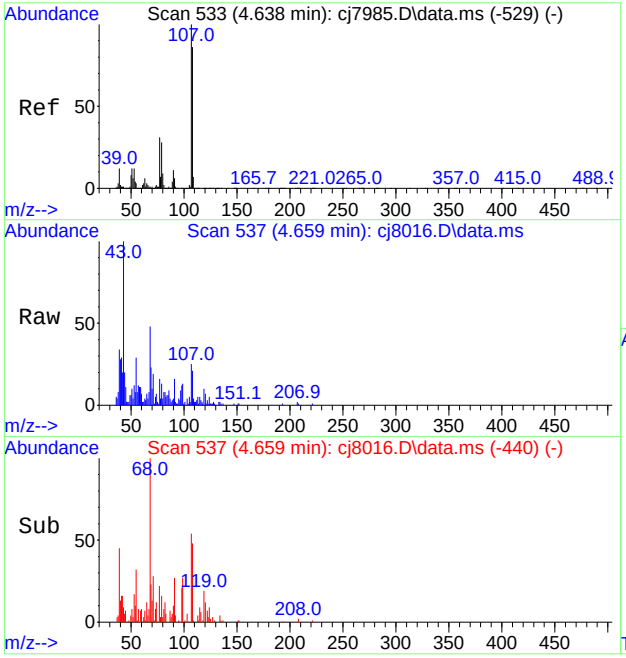


#18
Acetophenone
Concen: 0.2944 ppm
RT: 4.627 min Scan# 531
Delta R.T. 0.000 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:105 Resp: 4995

Ion	Ratio	Lower	Upper
105	100		
120	18.8	0.0	53.1
77	71.4	50.8	110.8

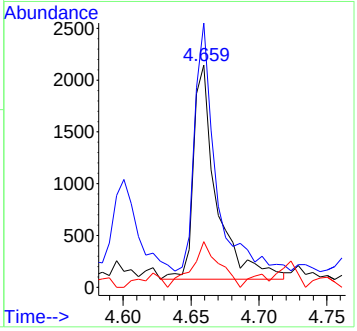


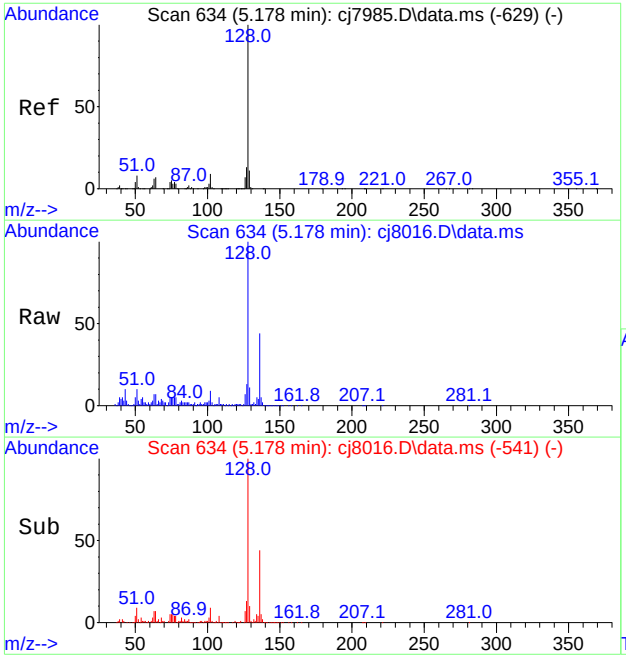


#21
3&4-Methylphenol
Concen: 0.2309 ppm
RT: 4.659 min Scan# 537
Delta R.T. 0.021 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:108 Resp: 2432

Ion	Ratio	Lower	Upper
108	100		
107	113.9	85.6	145.6
90	14.9	0.0	42.2

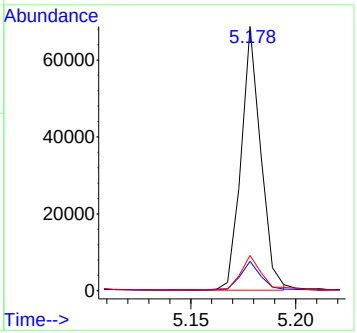


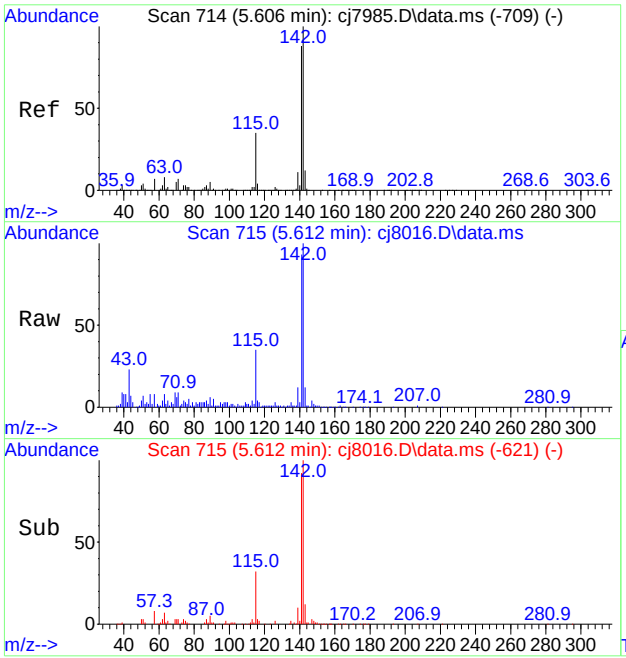


#38
Naphthalene
Concen: 1.3898 ppm
RT: 5.178 min Scan# 634
Delta R.T. 0.000 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:128 Resp: 44629

Ion	Ratio	Lower	Upper
128	100		
129	10.8	0.0	41.3
127	12.7	0.0	43.5

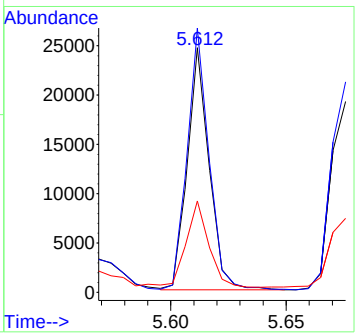


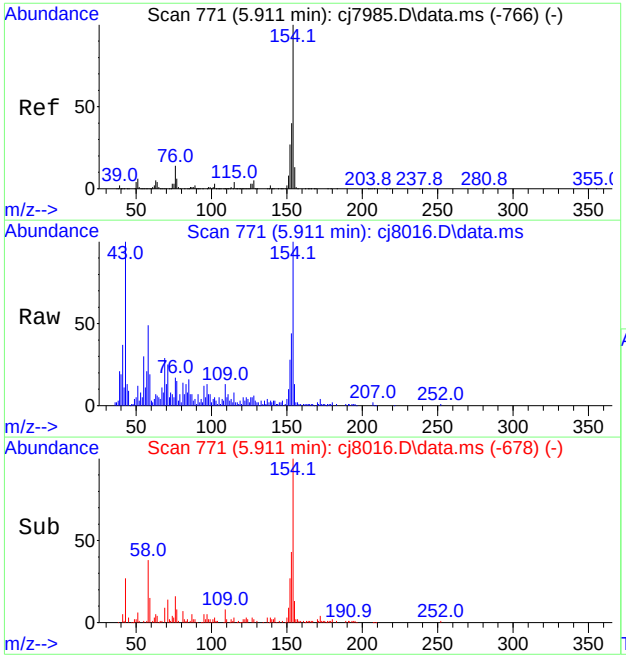


#44
2-Methylnaphthalene
Concen: 0.8498 ppm
RT: 5.612 min Scan# 715
Delta R.T. 0.005 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:141 Resp: 16179

Ion	Ratio	Lower	Upper
141	100		
142	108.2	83.7	143.7
115	35.2	9.3	69.3

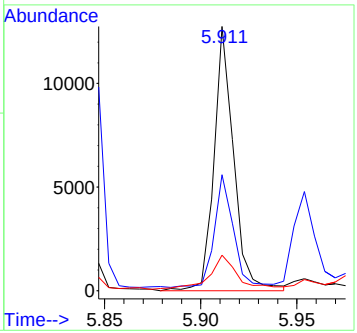


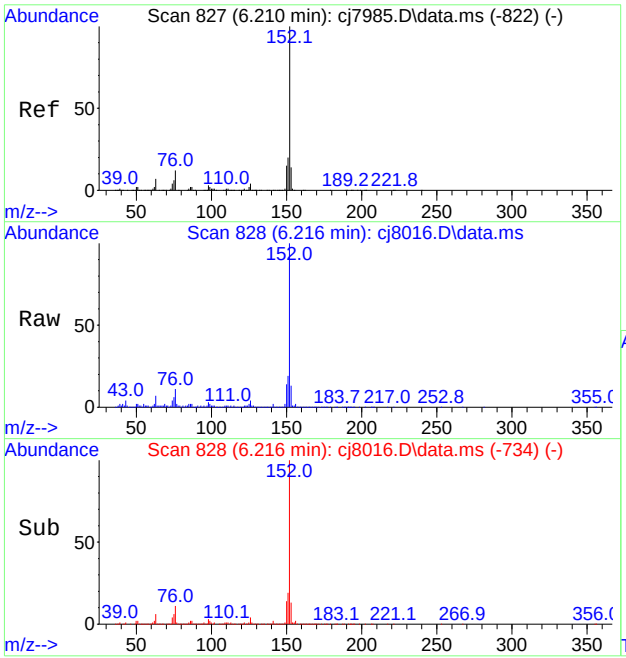


#53
Biphenyl
Concen: 0.3501 ppm
RT: 5.911 min Scan# 771
Delta R.T. 0.000 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:154 Resp: 9089

Ion	Ratio	Lower	Upper
154	100		
153	41.0	10.3	70.3
155	12.4	0.0	42.9

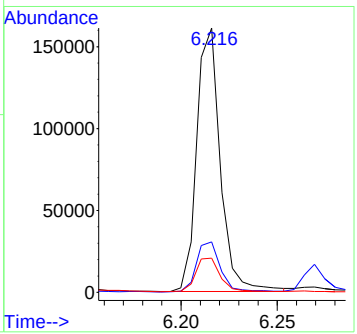


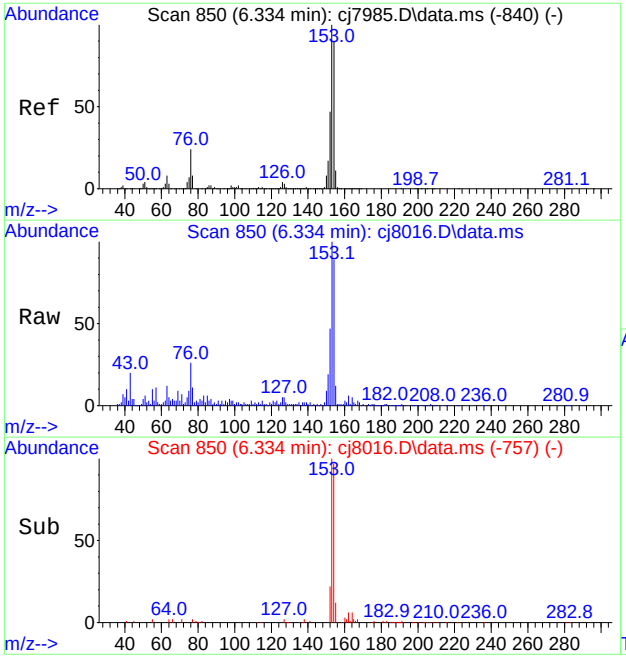


#56
Acenaphthylene
Concen: 4.6718 ppm
RT: 6.216 min Scan# 828
Delta R.T. 0.005 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:152 Resp: 136923

Ion	Ratio	Lower	Upper
152	100		
151	19.0	0.0	50.2
153	12.8	0.0	43.5

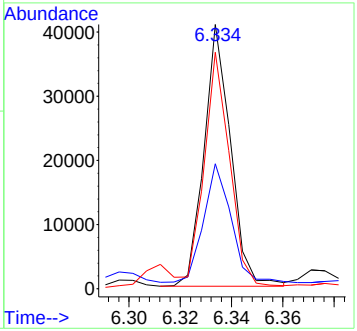


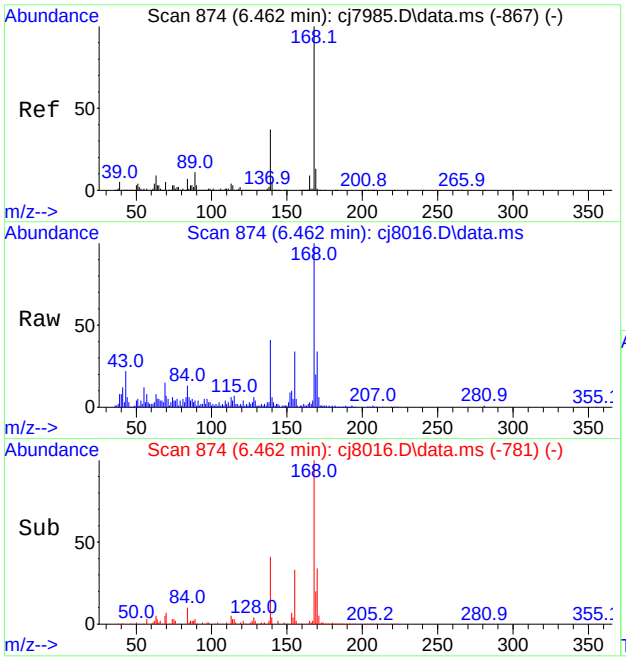


#59
Acenaphthene
Concen: 1.4246 ppm
RT: 6.334 min Scan# 850
Delta R.T. 0.000 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:153 Resp: 29692

Ion	Ratio	Lower	Upper
153	100		
152	45.4	16.9	76.9
154	85.7	56.2	116.2

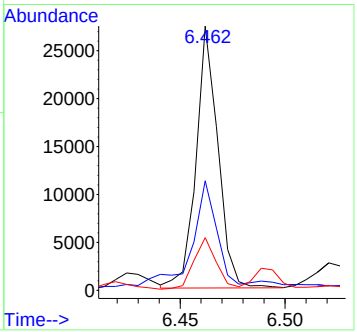


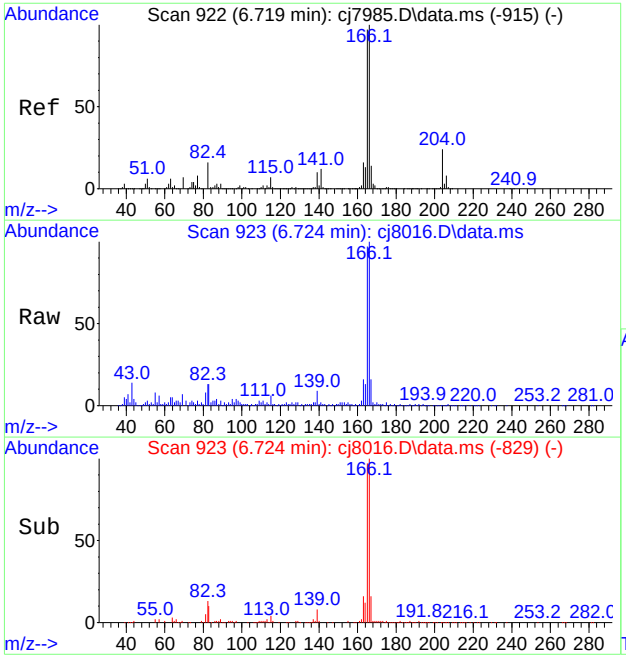


#62
Dibenzofuran
Concen: 0.6886 ppm
RT: 6.462 min Scan# 874
Delta R.T. 0.000 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:168 Resp: 19917

Ion	Ratio	Lower	Upper
168	100		
139	37.9	7.3	67.3
169	18.6	0.0	43.4

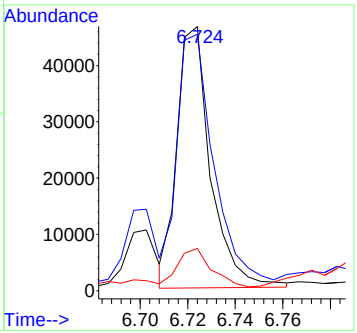


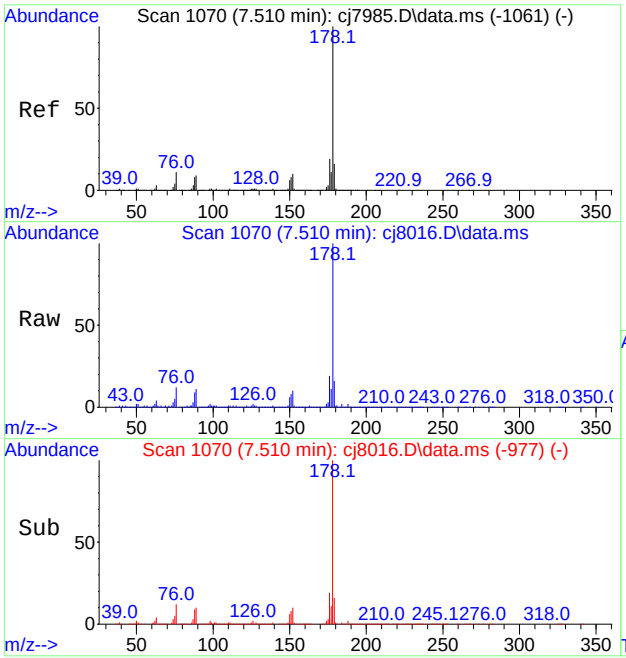


#66
Fluorene
Concen: 1.9967 ppm m
RT: 6.724 min Scan# 923
Delta R.T. 0.005 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:166 Resp: 45622

Ion	Ratio	Lower	Upper
166	100		
165	96.9	67.2	127.2
167	16.0	0.0	43.8

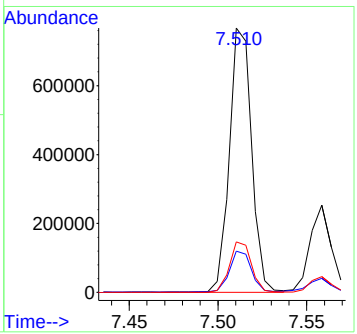


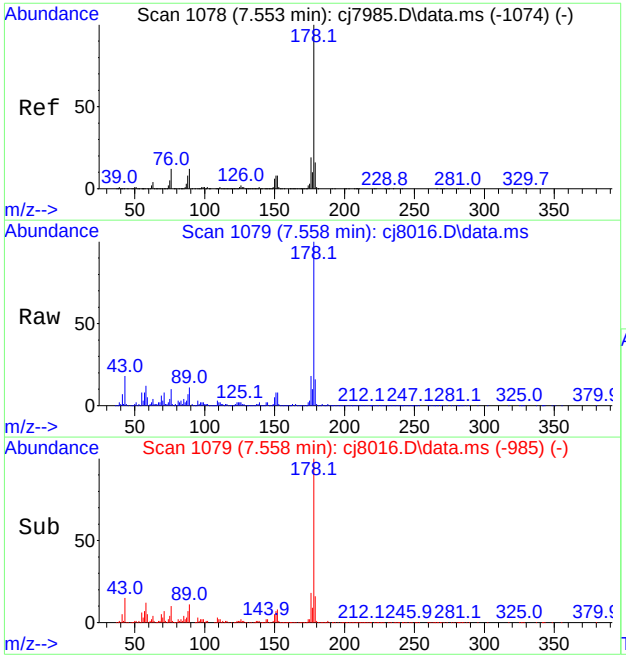


#78
Phenanthrene
Concen: 19.9081 ppm
RT: 7.510 min Scan# 1070
Delta R.T. 0.000 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:178 Resp: 666779

Ion	Ratio	Lower	Upper
178	100		
179	15.4	0.0	45.5
176	19.1	0.0	48.7

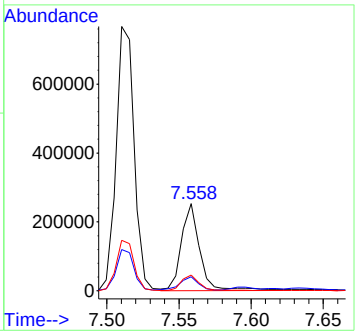


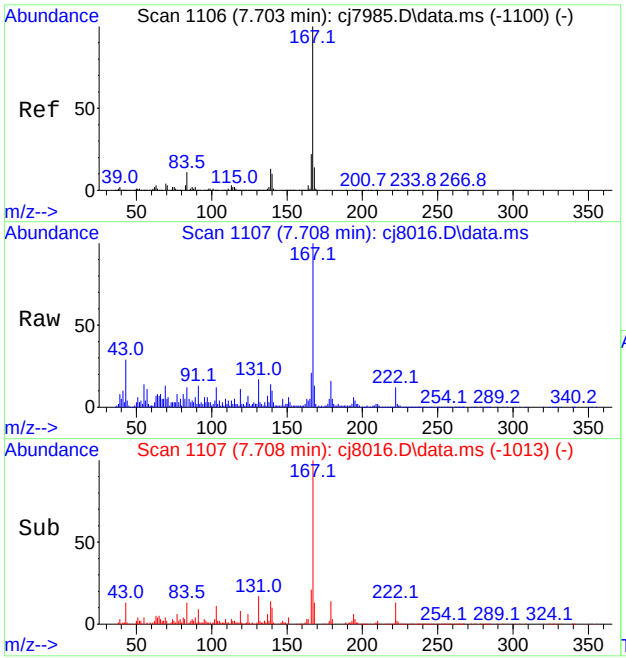


#79
Anthracene
Concen: 6.7585 ppm
RT: 7.558 min Scan# 1079
Delta R.T. 0.005 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:178 Resp: 226657

Ion	Ratio	Lower	Upper
178	100		
179	14.6	0.0	45.9
176	18.0	0.0	48.8

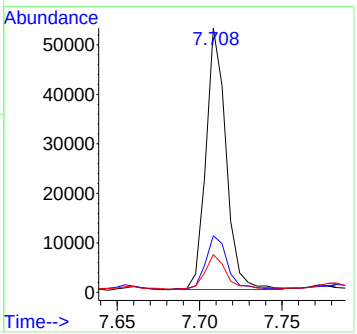


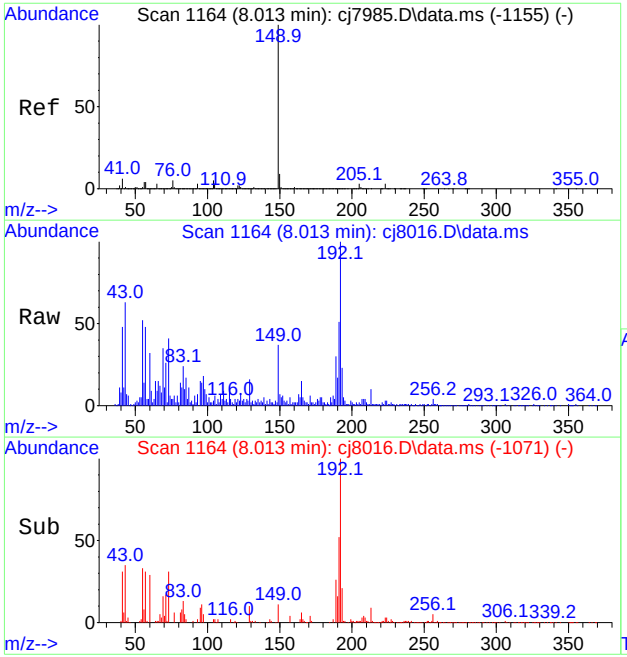


#80
Carbazole
Concen: 1.4411 ppm
RT: 7.708 min Scan# 1107
Delta R.T. 0.005 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:167 Resp: 45034

Ion	Ratio	Lower	Upper
167	100		
166	20.3	0.0	51.7
139	13.0	0.0	42.8

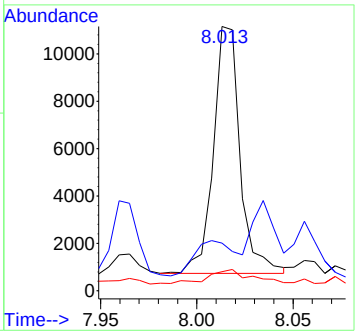


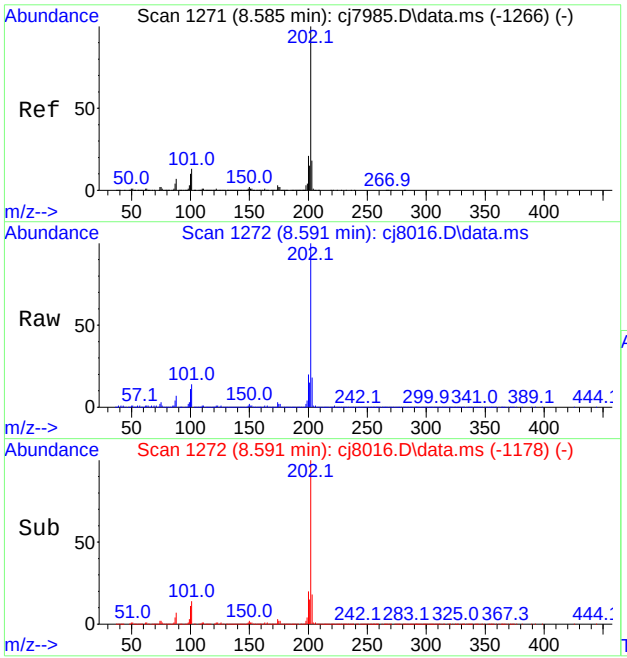


#81
Di-n-butylphthalate
Concen: 0.2622 ppm
RT: 8.013 min Scan# 1164
Delta R.T. 0.000 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:149 Resp: 10125

Ion	Ratio	Lower	Upper
149	100		
150	8.5	0.0	39.2
104	4.7	0.0	34.6

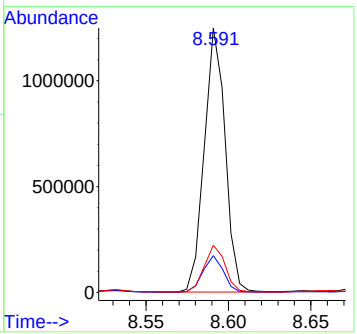


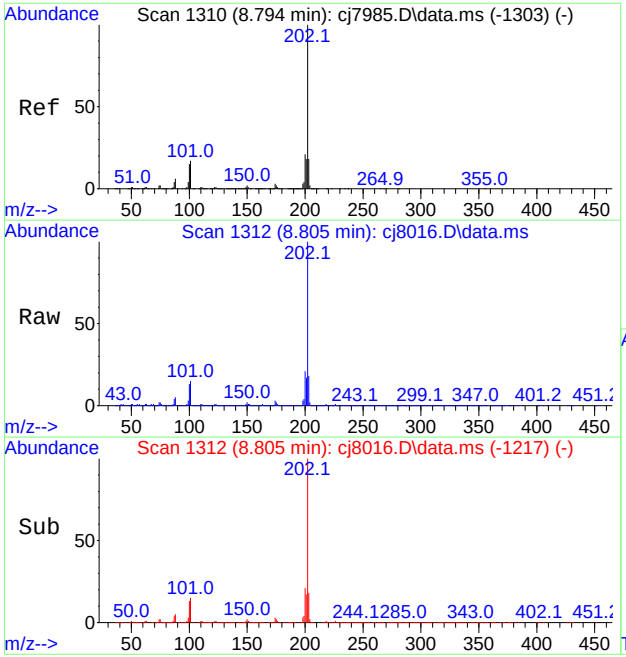


#82
Fluoranthene
Concen: 30.3426 ppm
RT: 8.591 min Scan# 1272
Delta R.T. 0.005 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:202 Resp: 1100213

Ion	Ratio	Lower	Upper
202	100		
101	13.8	0.0	42.9
203	17.7	0.0	47.5

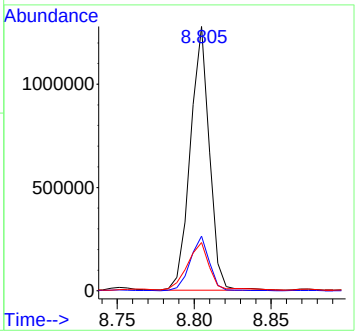


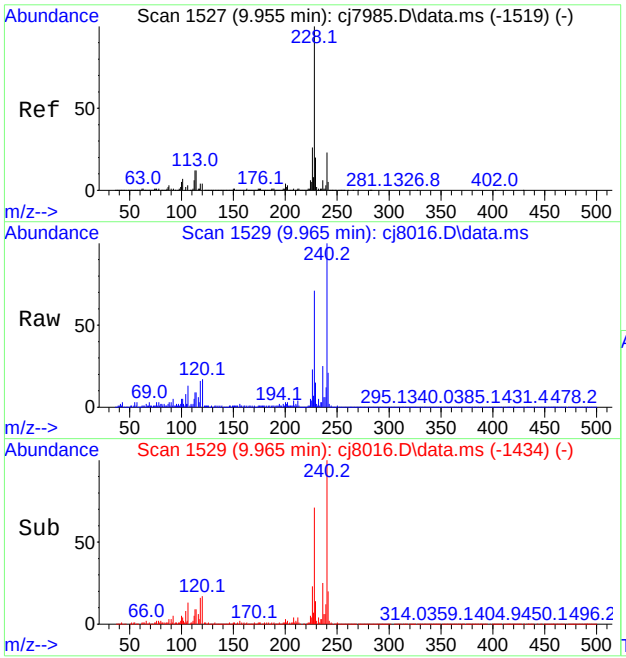


#86
Pyrene
Concen: 30.3192 ppm
RT: 8.805 min Scan# 1312
Delta R.T. 0.011 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:202 Resp: 1096307

Ion	Ratio	Lower	Upper
202	100		
200	20.6	0.0	51.0
203	18.0	0.0	48.5

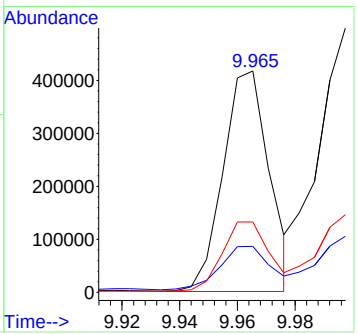


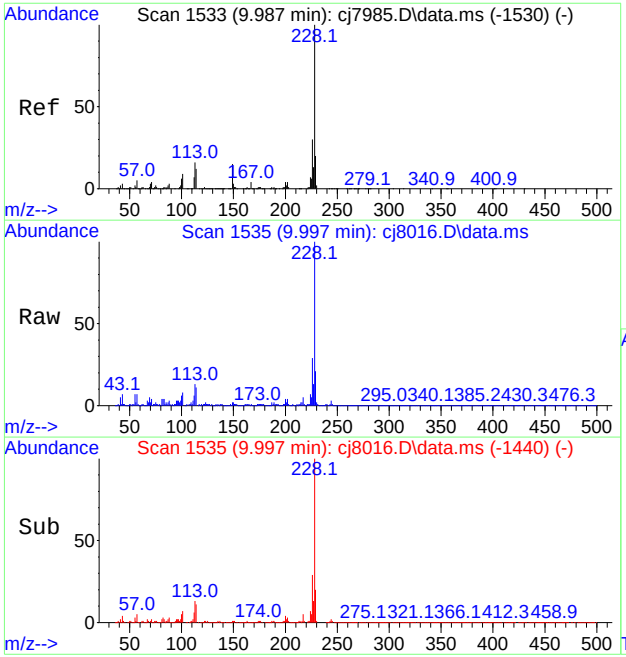


#89
Benzo[a]anthracene
Concen: 13.5827 ppm
RT: 9.965 min Scan# 1529
Delta R.T. 0.011 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:228 Resp: 464331

Ion	Ratio	Lower	Upper
228	100		
229	19.0	0.0	49.9
226	31.3	0.0	56.5

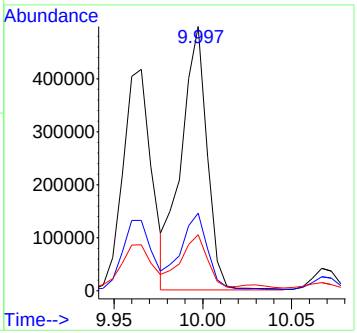


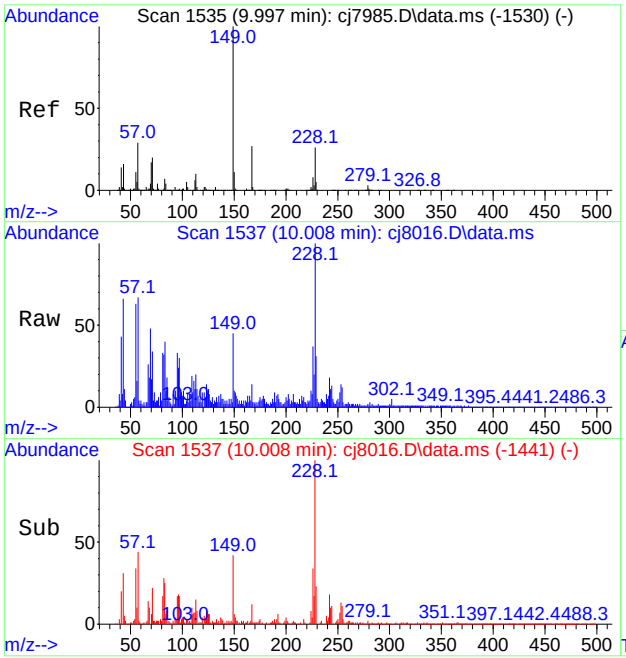


#91
Chrysene
Concen: 16.0723 ppm
RT: 9.997 min Scan# 1535
Delta R.T. 0.011 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:228 Resp: 506926

Ion	Ratio	Lower	Upper
228	100		
226	28.6	0.3	60.3
229	19.8	0.0	50.3

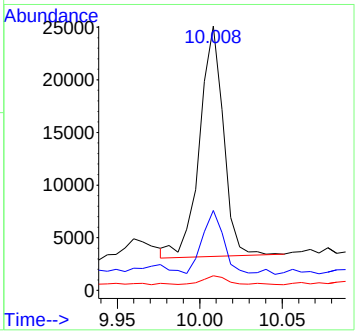


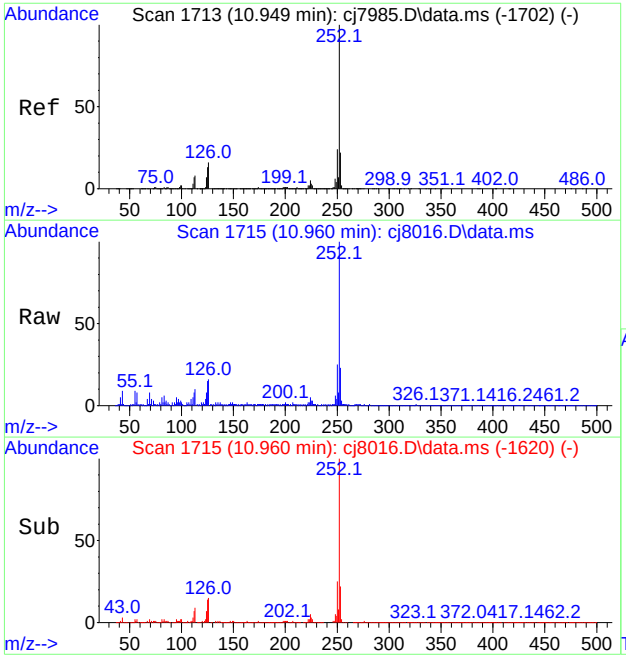


#92
bis(2-Ethylhexyl)phthalate
Concen: 0.9227 ppm
RT: 10.008 min Scan# 1537
Delta R.T. 0.011 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:149 Resp: 22047

Ion	Ratio	Lower	Upper
149	100		
167	25.8	0.0	56.9
279	3.7	0.0	33.4

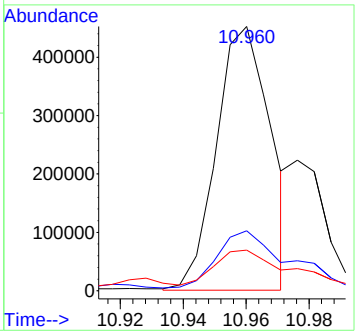


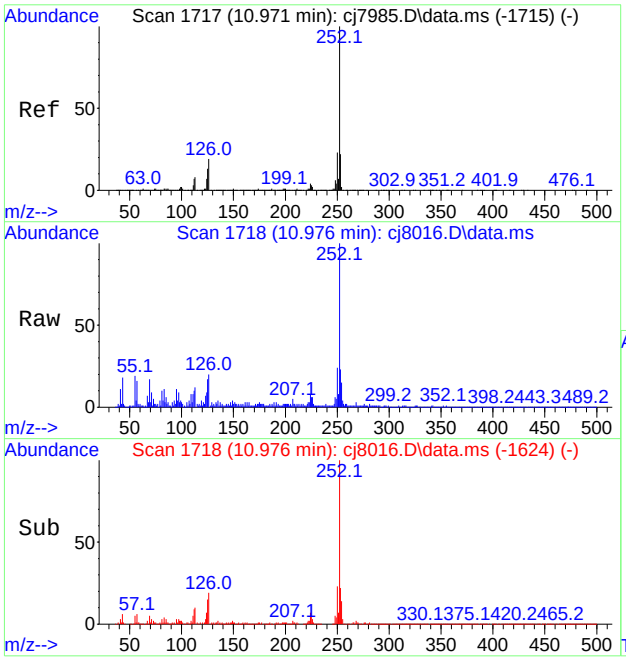


#95
Benzo[b]fluoranthene
Concen: 16.2765 ppm m
RT: 10.960 min Scan# 1715
Delta R.T. 0.011 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:252 Resp: 541440

Ion	Ratio	Lower	Upper
252	100		
253	22.7	0.0	52.5
125	15.4	0.0	42.4

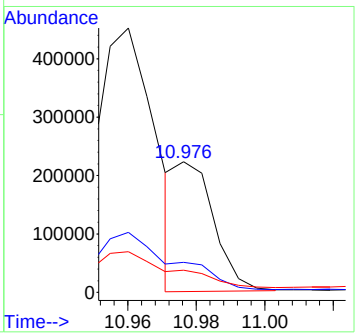


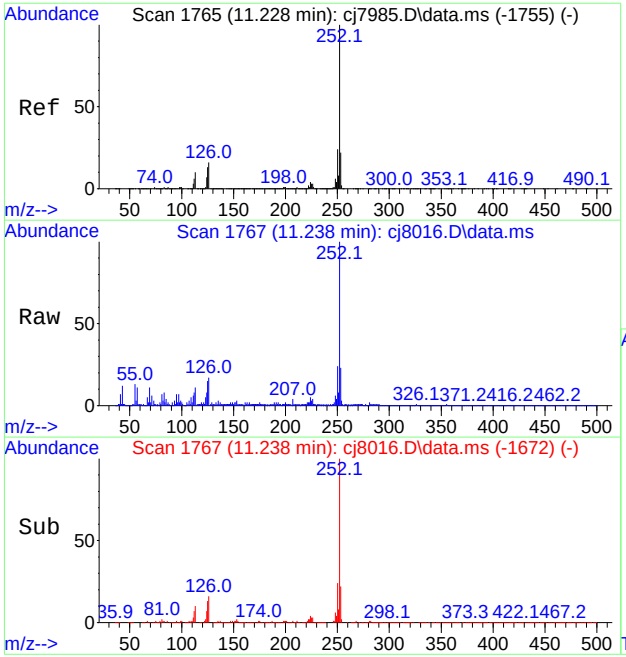


#96
Benzo[k]fluoranthene
Concen: 5.7364 ppm m
RT: 10.976 min Scan# 1718
Delta R.T. 0.005 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:252 Resp: 171709

Ion	Ratio	Lower	Upper
252	100		
253	23.1	0.0	51.7
125	16.9	0.0	43.5

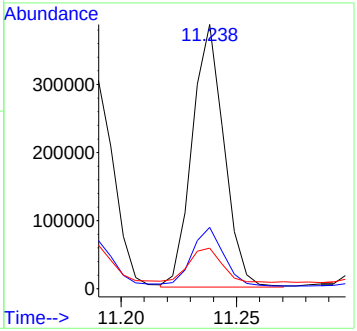


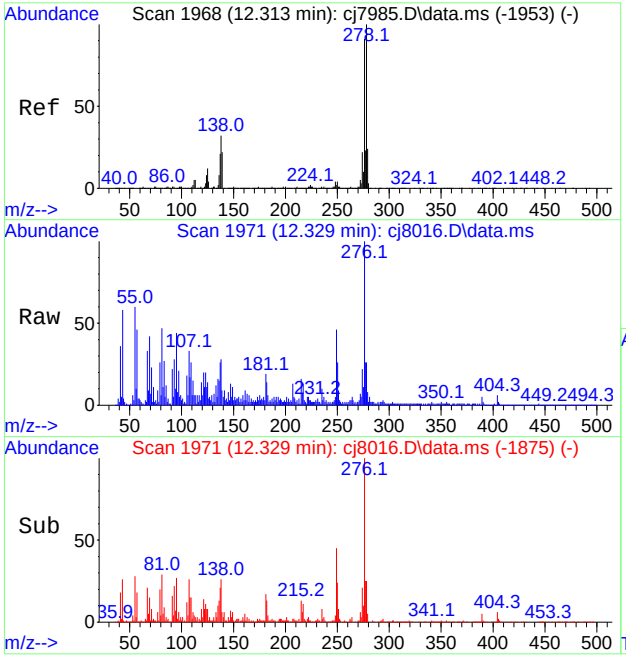


#97
Benzo[a]pyrene
Concen: 13.4461 ppm
RT: 11.238 min Scan# 1767
Delta R.T. 0.011 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:252 Resp: 370276

Ion	Ratio	Lower	Upper
252	100		
253	22.0	0.0	52.1
125	12.7	0.0	42.5

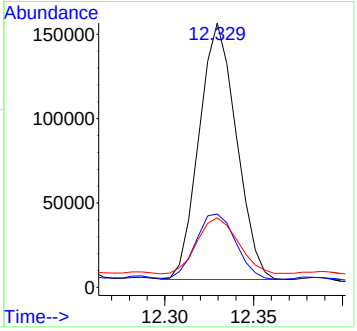


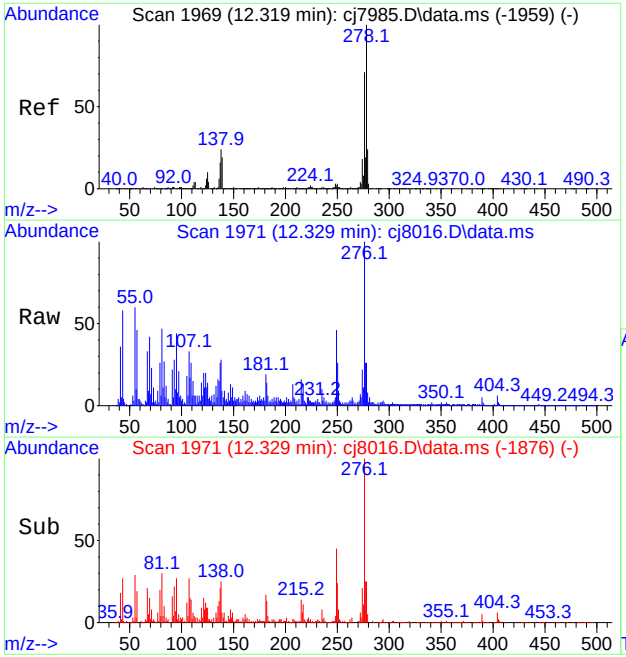


#98
Indeno[1,2,3-cd]pyrene
Concen: 6.6590 ppm
RT: 12.329 min Scan# 1971
Delta R.T. 0.016 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:276 Resp: 221683

Ion	Ratio	Lower	Upper
276	100		
138	25.3	5.2	65.2
137	21.8	0.0	53.3

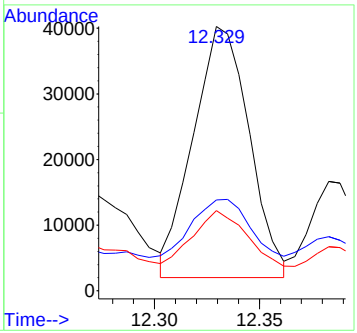


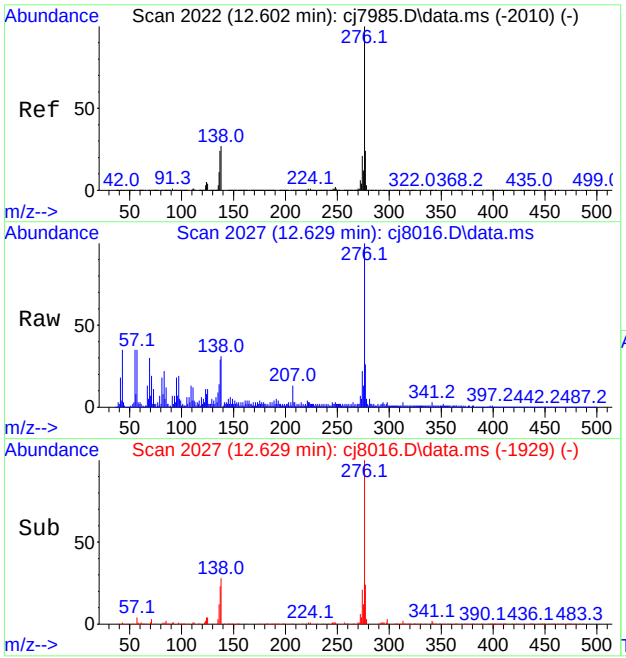


#100
Dibenz[a,h]anthracene
Concen: 2.6789 ppm
RT: 12.329 min Scan# 1971
Delta R.T. 0.011 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:278 Resp: 71259

Ion	Ratio	Lower	Upper
278	100		
139	24.3	0.0	48.9
279	23.5	0.0	53.7

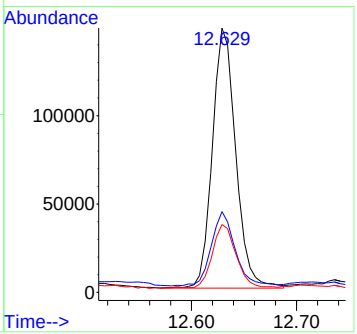


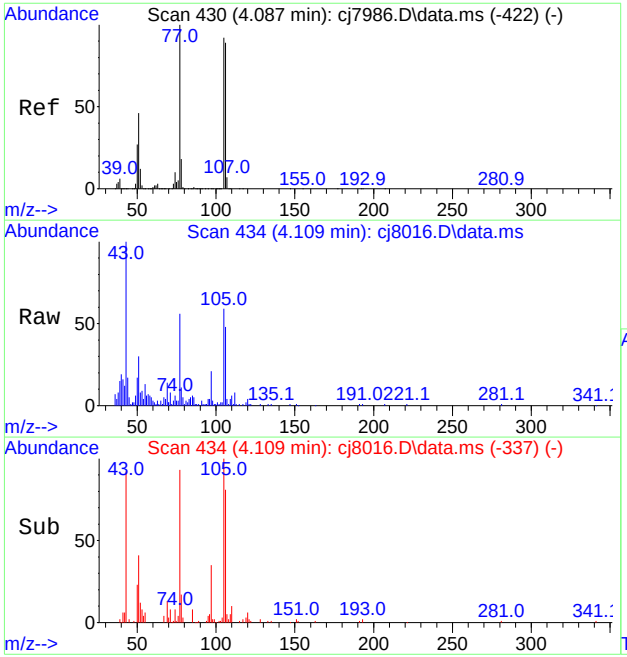


#102
Benzo[g,h,i]perylene
Concen: 8.8107 ppm
RT: 12.629 min Scan# 2027
Delta R.T. 0.027 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:276 Resp: 227939

Ion	Ratio	Lower	Upper
276	100		
138	28.3	0.0	57.0
277	24.2	0.0	53.6

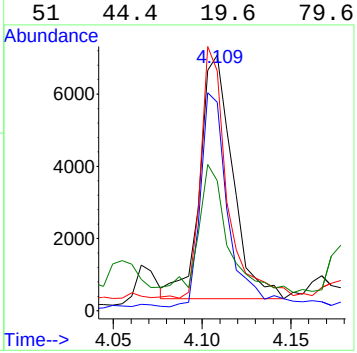




#104
Benzaldehyde
Concen: 0.8149 ppm
RT: 4.109 min Scan# 434
Delta R.T. 0.021 min
Lab File: cj8016.D
Acq: 01 Jul 2024 09:49 pm

Tgt Ion:105 Resp: 8610

Ion	Ratio	Lower	Upper
105	100		
106	84.1	66.2	126.2
77	93.0	78.1	138.1
51	44.4	19.6	79.6



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj8016.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.178	443	447	451	rBV2	847523	973636	20.42%	0.861%
2	4.210	451	453	459	rVB	630951	491617	10.31%	0.435%
3	4.365	479	482	493	rVB	3266169	2171402	45.53%	1.921%
4	4.542	511	515	519	rVV2	395210	472636	9.91%	0.418%
5	4.574	519	521	528	rVB	342329	303982	6.37%	0.269%
6	4.718	542	548	555	rBV	1004671	877183	18.39%	0.776%
7	4.777	555	559	574	rVB4	303333	415293	8.71%	0.367%
8	4.943	583	590	598	rBV	245300	209525	4.39%	0.185%
9	5.162	615	631	647	rBV	3841210	3188968	66.87%	2.821%
10	5.841	753	758	763	rVB	2514704	1716765	36.00%	1.519%
11	5.954	775	779	788	rBV3	235494	250942	5.26%	0.222%
12	6.216	820	828	834	rVB	336681	330230	6.92%	0.292%
13	6.312	841	846	857	rVB	4537342	3453034	72.40%	3.055%
14	6.917	953	959	962	rBV2	788581	696848	14.61%	0.616%
15	7.163	1001	1005	1014	rBV4	115795	265676	5.57%	0.235%
16	7.232	1014	1018	1024	rBV3	222735	235850	4.95%	0.209%
17	7.291	1024	1029	1034	rVB	314931	259106	5.43%	0.229%
18	7.398	1045	1049	1057	rVB2	170863	251167	5.27%	0.222%
19	7.494	1061	1067	1069	rBV	3989707	3833175	80.37%	3.391%
20	7.510	1069	1070	1074	rVB	1875129	1249944	26.21%	1.106%
21	7.558	1074	1079	1083	rVB	832147	721511	15.13%	0.638%
22	7.708	1102	1107	1113	rBV	237717	357875	7.50%	0.317%
23	7.938	1146	1150	1152	rBV	508283	465803	9.77%	0.412%
24	7.965	1152	1155	1158	rVB	652813	577483	12.11%	0.511%
25	8.002	1158	1162	1165	rBV2	959210	916230	19.21%	0.811%
26	8.034	1165	1168	1171	rBV	621342	555305	11.64%	0.491%
27	8.152	1185	1190	1194	rVV3	218610	246423	5.17%	0.218%
28	8.206	1194	1200	1204	rVV2	252273	320811	6.73%	0.284%
29	8.243	1204	1207	1211	rVB2	369862	352351	7.39%	0.312%
30	8.446	1241	1245	1247	rBV	437813	409815	8.59%	0.363%
31	8.473	1247	1250	1253	rVB2	224229	251965	5.28%	0.223%
32	8.527	1257	1260	1264	rVB3	216496	256865	5.39%	0.227%
33	8.591	1268	1272	1279	rBV	2991849	2713582	56.90%	2.401%
34	8.682	1283	1289	1295	rVB3	280661	430700	9.03%	0.381%
35	8.741	1295	1300	1306	rBV4	319013	456083	9.56%	0.403%
36	8.805	1307	1312	1316	rBV	2966210	2855850	59.88%	2.526%
37	8.874	1320	1325	1328	rVB2	246794	265996	5.58%	0.235%
38	8.960	1337	1341	1347	rVB	2022876	1951056	40.91%	1.726%
39	9.024	1347	1353	1357	rBV3	261020	400314	8.39%	0.354%
40	9.126	1364	1372	1376	rVB	462893	795357	16.68%	0.704%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.190	1376	1384	1387	rBV	353754	430541	9.03%	0.381%
42	9.222	1387	1390	1399	rBV	763848	844413	17.71%	0.747%
43	9.307	1403	1406	1409	rBV	298280	301519	6.32%	0.267%
44	9.340	1409	1412	1417	rVB	331226	305068	6.40%	0.270%
45	9.495	1434	1441	1444	rBV2	150171	231063	4.84%	0.204%
46	9.564	1444	1454	1458	rVB4	146833	275689	5.78%	0.244%
47	9.628	1463	1466	1470	rVB	230518	220890	4.63%	0.195%
48	9.677	1470	1475	1478	rBV2	540886	509502	10.68%	0.451%
49	9.725	1478	1484	1486	rBV2	296975	386135	8.10%	0.342%
50	9.890	1511	1515	1524	rBV2	919271	1284372	26.93%	1.136%
51	9.971	1524	1530	1533	rBV2	3766835	4645732	97.41%	4.110%
52	9.997	1533	1535	1544	rVB	1516384	1381993	28.98%	1.223%
53	10.067	1544	1548	1551	rBV3	182768	237621	4.98%	0.210%
54	10.104	1551	1555	1566	rBV5	332173	563136	11.81%	0.498%
55	10.217	1566	1576	1580	rBV5	225302	567910	11.91%	0.502%
56	10.318	1592	1595	1598	rBV	566215	517214	10.84%	0.458%
57	10.356	1598	1602	1606	rVB2	293200	304567	6.39%	0.269%
58	10.415	1611	1613	1616	rBV2	228110	256056	5.37%	0.227%
59	10.527	1626	1634	1644	rVB4	1421234	2810965	58.94%	2.487%
60	10.629	1650	1653	1656	rBV	266710	217489	4.56%	0.192%
61	10.725	1668	1671	1676	rBV2	443037	468662	9.83%	0.415%
62	10.800	1681	1685	1688	rBV	257400	247536	5.19%	0.219%
63	10.832	1688	1691	1694	rBV2	306241	370131	7.76%	0.327%
64	10.928	1703	1709	1711	rBV	2463293	2189110	45.90%	1.937%
65	10.960	1711	1715	1722	rVB	1116320	1779636	37.32%	1.574%
66	11.046	1724	1731	1734	rBV3	252112	314552	6.60%	0.278%
67	11.089	1734	1739	1742	rBV	2655754	2633779	55.23%	2.330%
68	11.121	1742	1745	1754	rVB2	2956359	4029039	84.48%	3.564%
69	11.190	1754	1758	1761	rBV	735459	783582	16.43%	0.693%
70	11.238	1764	1767	1770	rVB	898949	788046	16.52%	0.697%
71	11.286	1770	1776	1787	rVB	3195821	3607364	75.64%	3.191%
72	11.372	1787	1792	1798	rBV5	345393	497618	10.43%	0.440%
73	11.426	1798	1802	1803	rBV2	214760	241327	5.06%	0.213%
74	11.516	1813	1819	1829	rVB	4281165	4571079	95.85%	4.044%
75	11.591	1829	1833	1838	rVV6	136695	248955	5.22%	0.220%
76	11.688	1845	1851	1856	rVV	4208326	4769156	100.00%	4.219%
77	11.741	1856	1861	1870	rVV3	1286224	2821163	59.15%	2.496%
78	11.800	1870	1872	1877	rVV5	201928	260762	5.47%	0.231%
79	11.848	1877	1881	1889	rVV2	547005	734305	15.40%	0.650%
80	11.934	1891	1897	1902	rVB5	181158	285540	5.99%	0.253%
81	12.030	1908	1915	1922	rBV2	239072	436012	9.14%	0.386%
82	12.126	1927	1933	1940	rVB5	237508	592463	12.42%	0.524%
83	12.228	1940	1952	1965	rBV3	1689089	2731854	57.28%	2.417%
84	12.340	1965	1973	1984	rVV2	2337741	4218035	88.44%	3.731%
85	12.431	1984	1990	1998	rVV	1239533	2736070	57.37%	2.420%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.543	1998	2011	2022	rVV3	1021926	3372371	70.71%	2.983%
87	12.629	2022	2027	2037	rVV	564842	1682364	35.28%	1.488%
88	12.715	2037	2043	2051	rVV2	1032268	2437266	51.10%	2.156%
89	12.800	2051	2059	2071	rVV6	380006	1315163	27.58%	1.163%
90	12.902	2071	2078	2083	rVV9	190254	524343	10.99%	0.464%
91	12.950	2083	2087	2092	rVV5	180662	352507	7.39%	0.312%
92	13.025	2093	2101	2114	rVV5	420829	1007645	21.13%	0.891%
93	13.153	2118	2125	2132	rVV	624657	1170209	24.54%	1.035%
94	13.249	2132	2143	2155	rVB6	331637	1012351	21.23%	0.896%
95	13.356	2155	2163	2169	rBV2	590318	1103938	23.15%	0.977%
96	13.415	2170	2174	2191	rVB2	126965	474135	9.94%	0.419%
97	13.586	2193	2206	2222	rVB2	545937	1625561	34.08%	1.438%
98	13.972	2267	2278	2290	rVB7	134026	454158	9.52%	0.402%
99	14.132	2297	2308	2322	rVB2	151072	500796	10.50%	0.443%
100	14.260	2323	2332	2339	rBV6	136897	411379	8.63%	0.364%

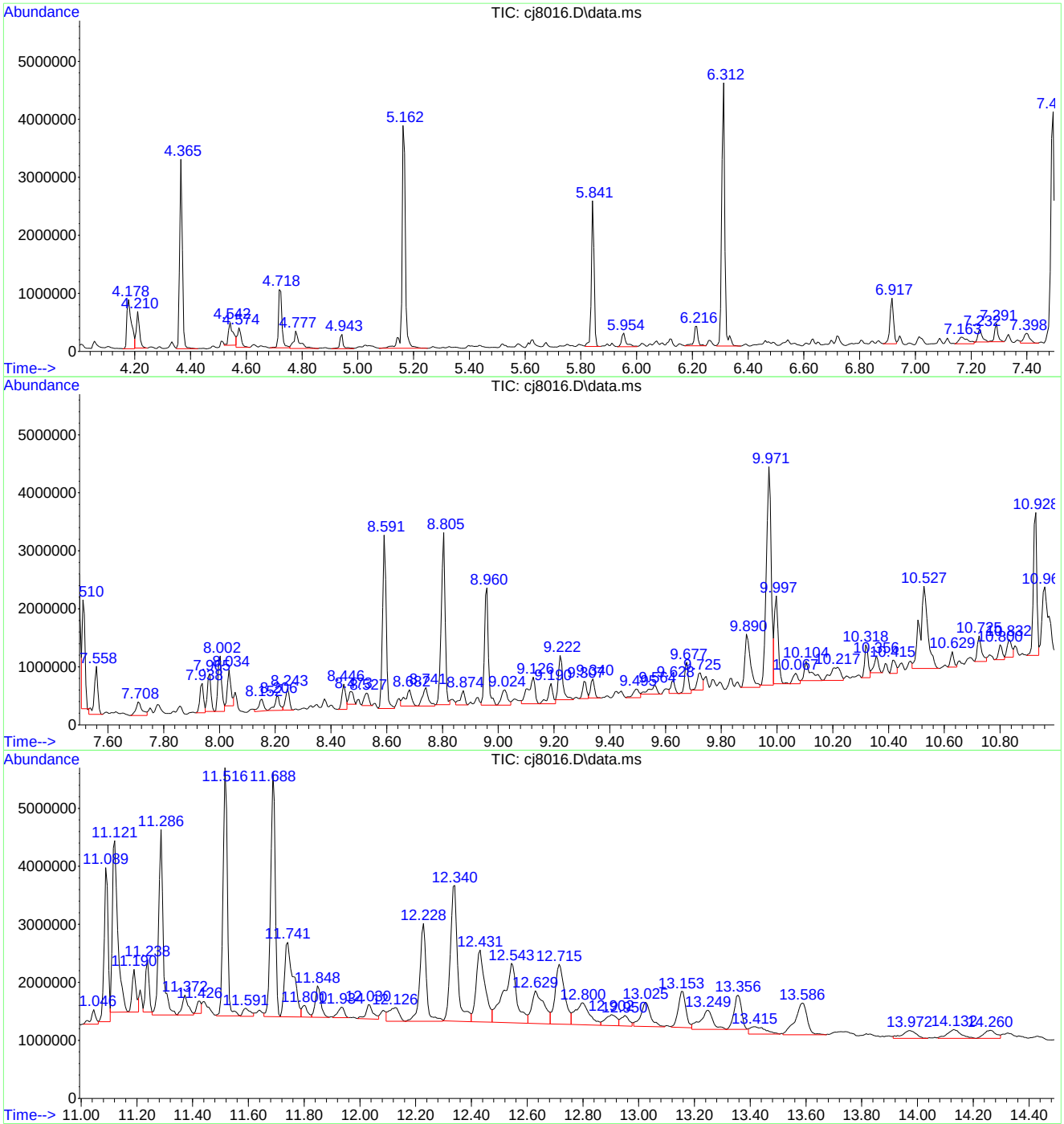
Sum of corrected areas: 113040191

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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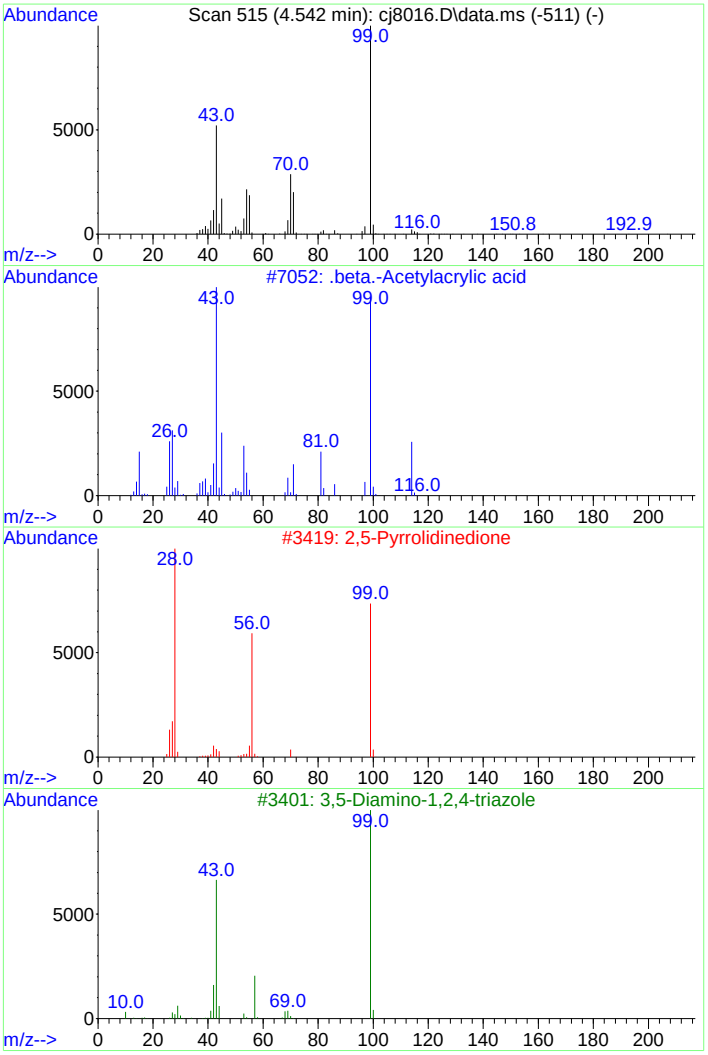
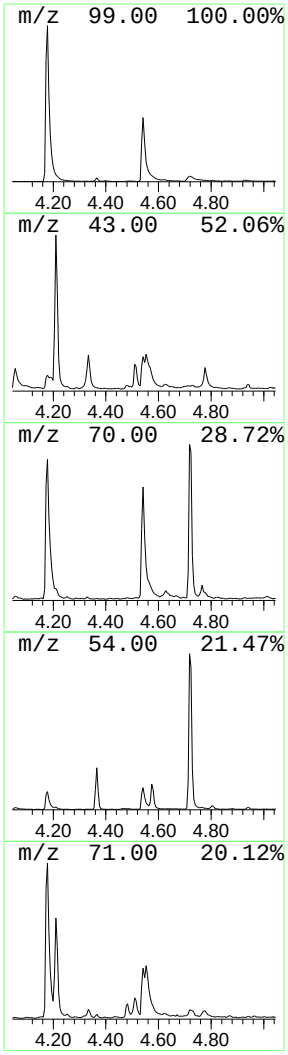
Peak Number 1 Unknown Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.542	8.71 ppm	472636	1,4-Dichlorobenzene-d4a	4.365

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Acetylacrylic acid	114	C5H6O3	004743-82-2	59
2	2,5-Pyrrolidinedione	99	C4H5NO2	000123-56-8	37
3	3,5-Diamino-1,2,4-triazole	99	C2H5N5	001455-77-2	37
4	2-Thioxo-dihydropyrimidine-4,6-d...	359	C17H21N5O2S	1000304-28-6	33
5	Phosphoric acid, tris(2-ethylhex...	434	C24H51O4P	000078-42-2	28





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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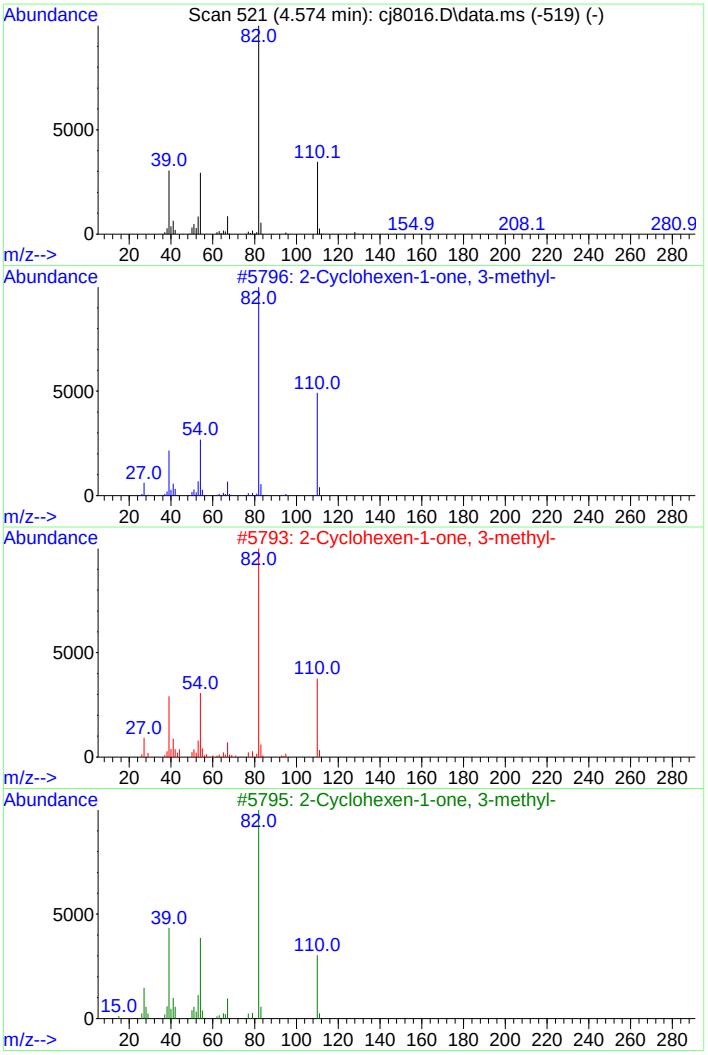
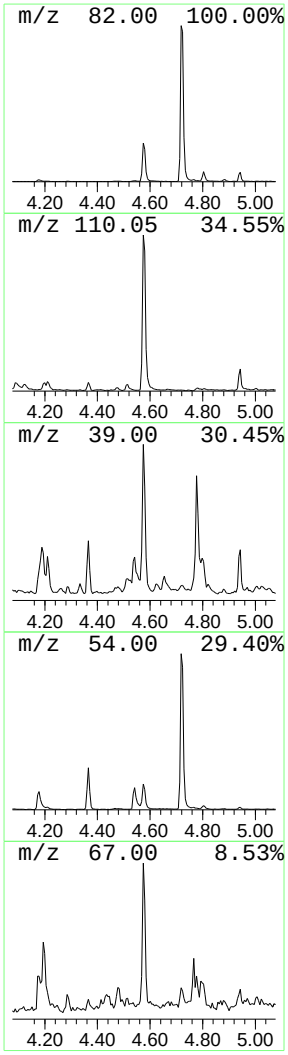
Peak Number 2 Unknown Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.574	5.60 ppm	303982	1,4-Dichlorobenzene-d4a	4.365

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Cyclohexen-1-one, 3-methyl-	110	C7H10O	001193-18-6	91
2	2-Cyclohexen-1-one, 3-methyl-	110	C7H10O	001193-18-6	90
3	2-Cyclohexen-1-one, 3-methyl-	110	C7H10O	001193-18-6	74
4	1H-Pyrazole, 3-methyl-	82	C4H6N2	001453-58-3	64
5	1H-Pyrazole, 3-methyl-	82	C4H6N2	001453-58-3	64





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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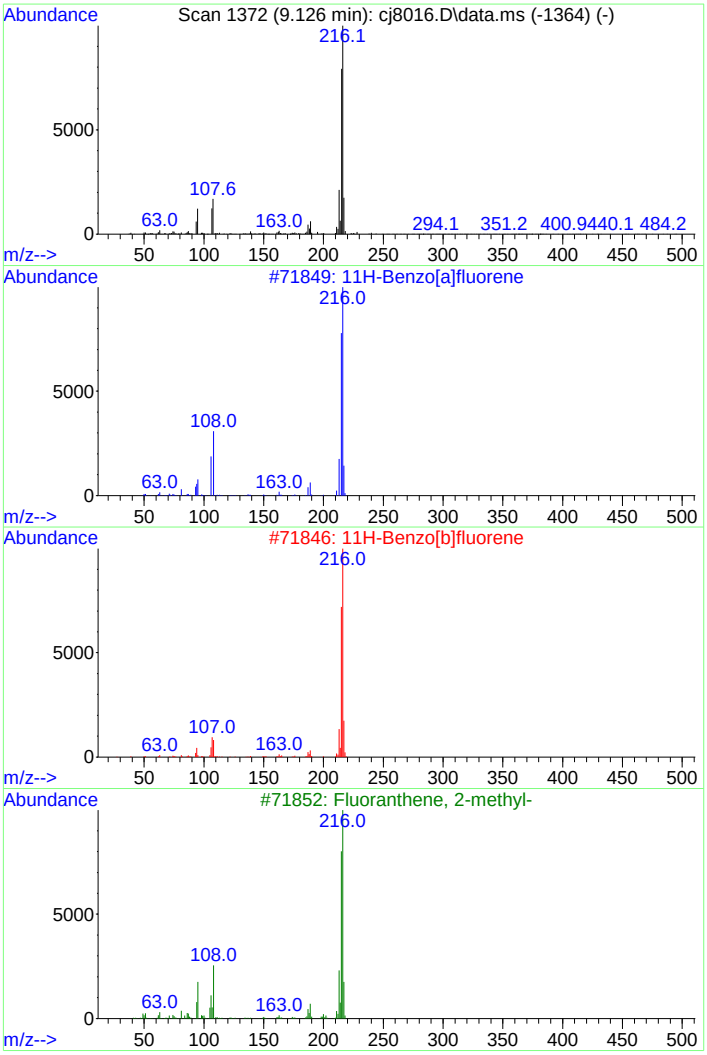
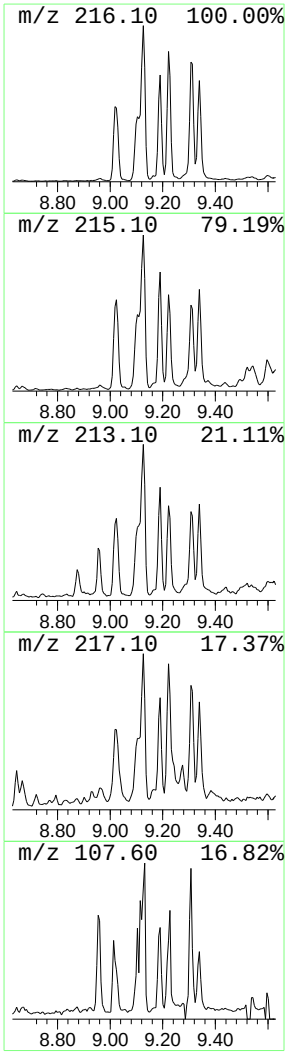
Peak Number 3 Pyrene methyl Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.126	6.85 ppm	795357	Chrysene-d12	9.971

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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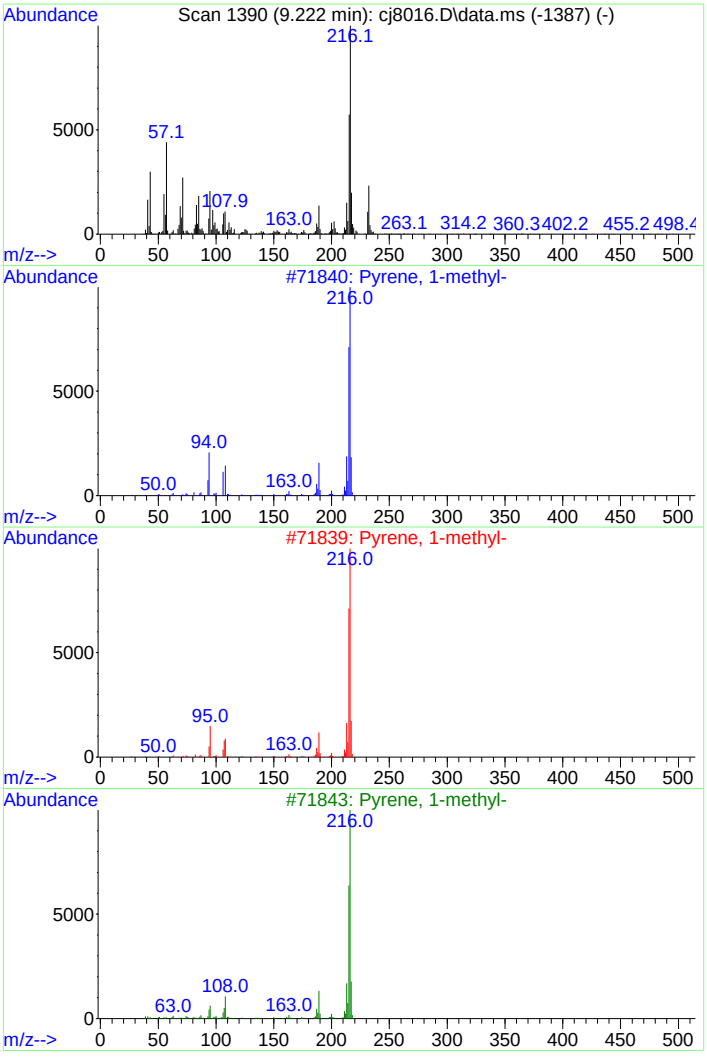
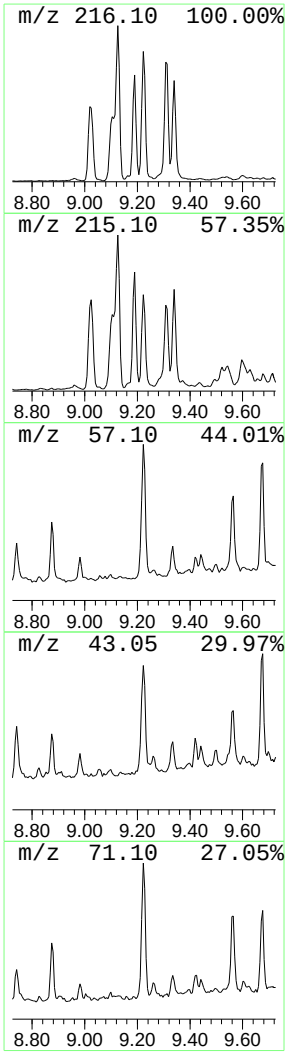
Peak Number 4 Pyrene methyl Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.222	7.27 ppm	844413	Chrysene-d12	9.971

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	92
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	92





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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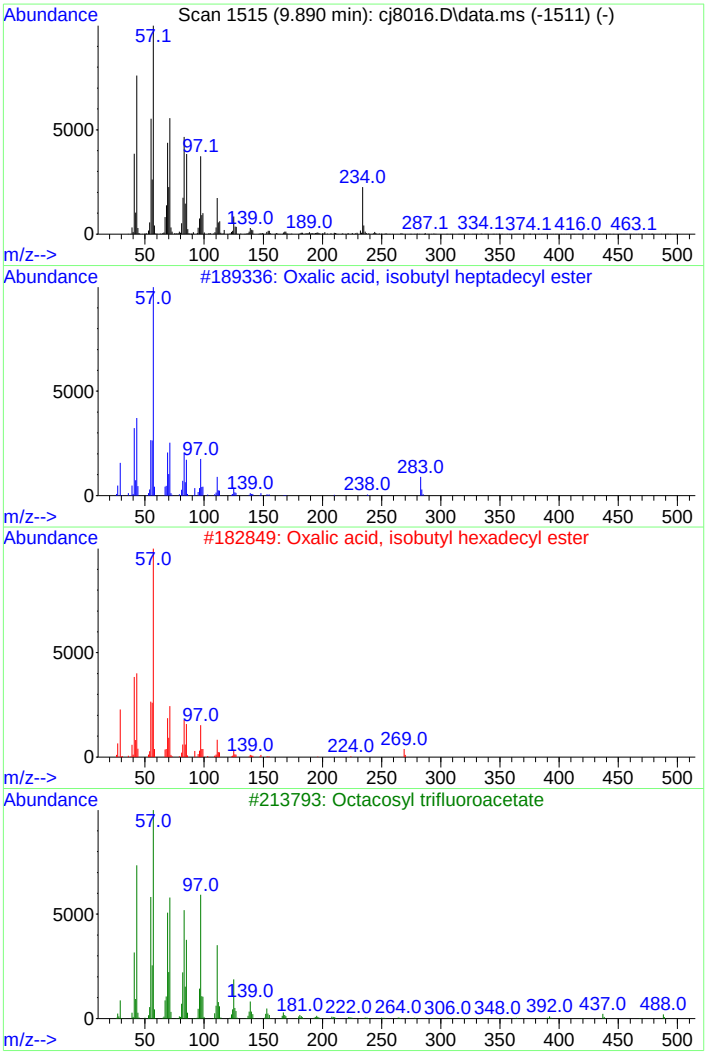
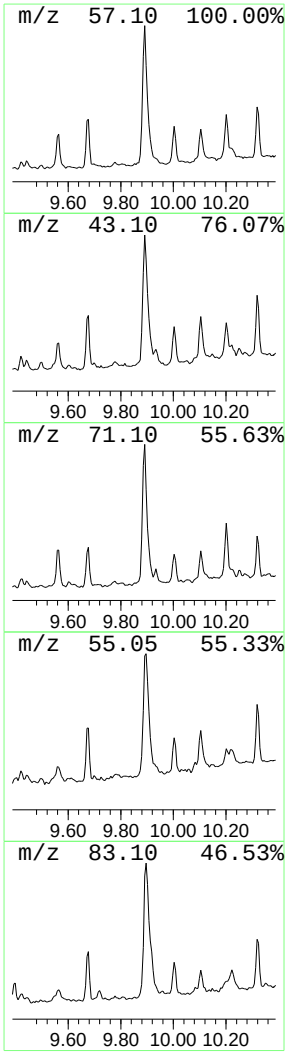
Peak Number 5 Unknown Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.890	11.06 ppm	1284370	Chrysene-d12	9.971

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxalic acid, isobutyl heptadecyl...	384	C23H44O4	1000309-38-2	83
2	Oxalic acid, isobutyl hexadecyl ...	370	C22H42O4	1000309-38-1	83
3	Octacosyl trifluoroacetate	506	C30H57F3O2	1000351-74-9	83
4	Oxalic acid, isobutyl pentadecyl...	356	C21H40O4	1000309-38-0	83
5	Octacosyl acetate	452	C30H60O2	018206-97-8	64





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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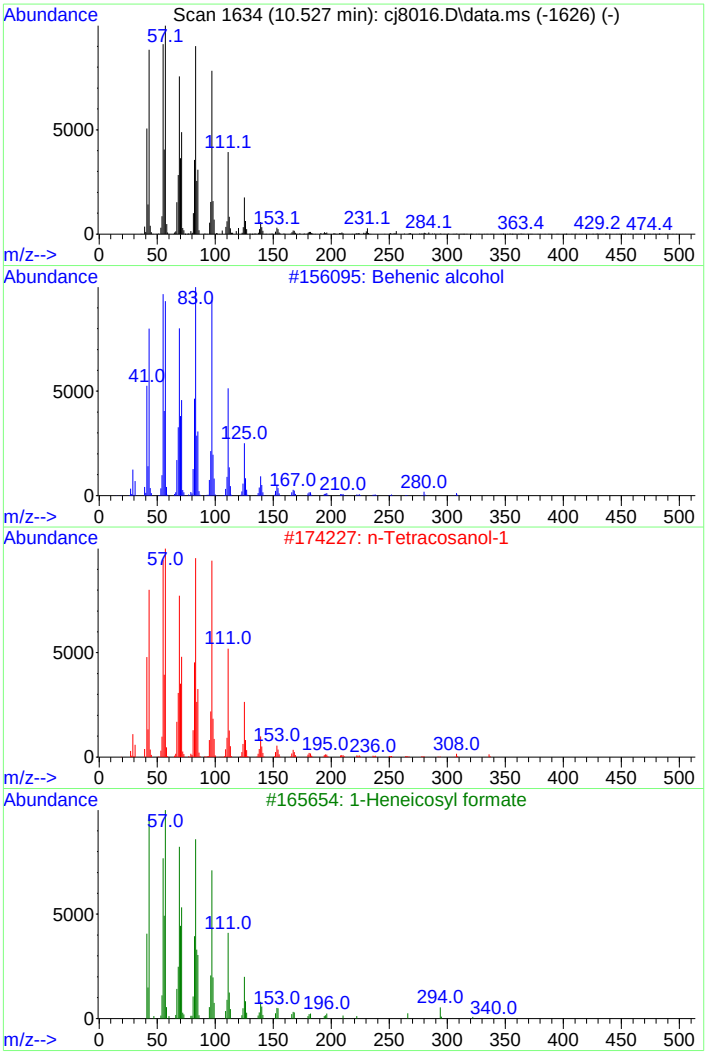
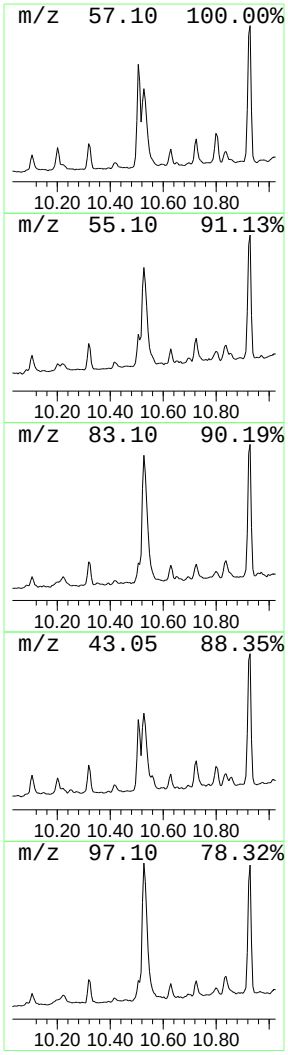
Peak Number 6 Unknown alcohol Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.527	24.20 ppm	2810970	Chrysene-d12a	9.971

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Behenic alcohol	326	C22H46O	000661-19-8	94
2	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
3	1-Heneicosyl formate	340	C22H44O2	077899-03-7	93
4	Cyclopentadecane	210	C15H30	000295-48-7	93
5	1-Heneicosanol	312	C21H44O	015594-90-8	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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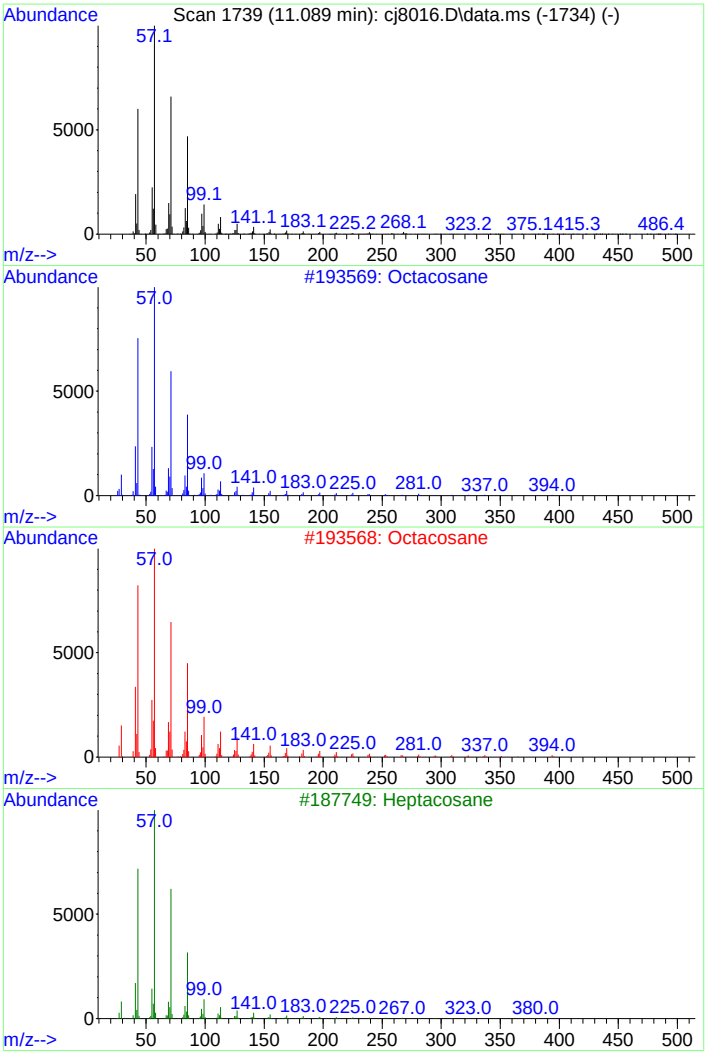
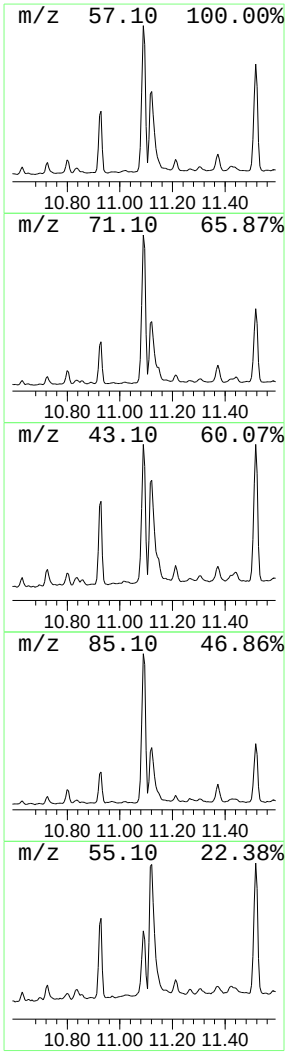
Peak Number 7 Alkane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.089	29.20 ppm	2633780	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	98
2	Octacosane	394	C28H58	000630-02-4	97
3	Heptacosane	380	C27H56	000593-49-7	93
4	Tetracosane	338	C24H50	000646-31-1	90
5	Hexadecane	226	C16H34	000544-76-3	87





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Sample : jd91204-9
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ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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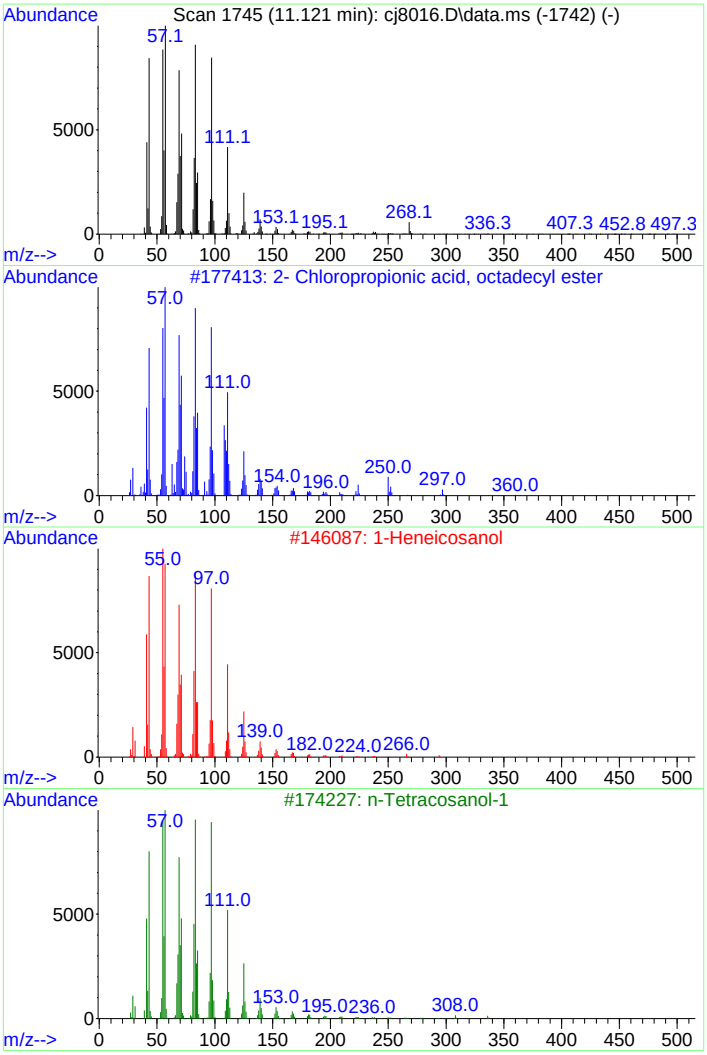
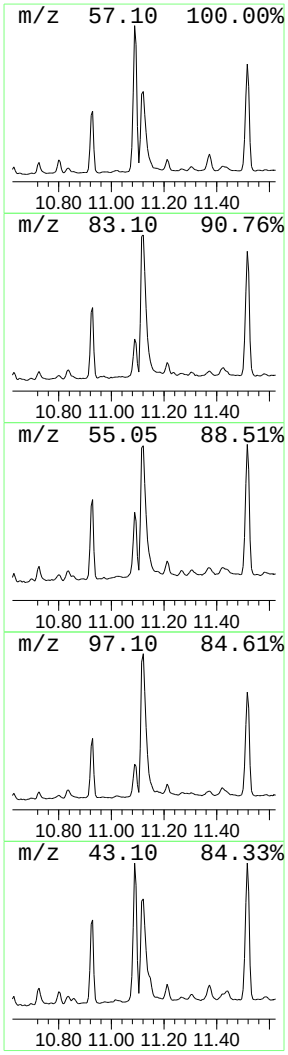
Peak Number 8 Unknown alcohol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.121	44.68 ppm	4029040	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	94
2	1-Heneicosanol	312	C21H44O	015594-90-8	94
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
4	Behenic alcohol	326	C22H46O	000661-19-8	93
5	n-Nonadecanol-1	284	C19H40O	001454-84-8	91





Library Search Compound Report

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Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
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Sample : jd91204-9
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ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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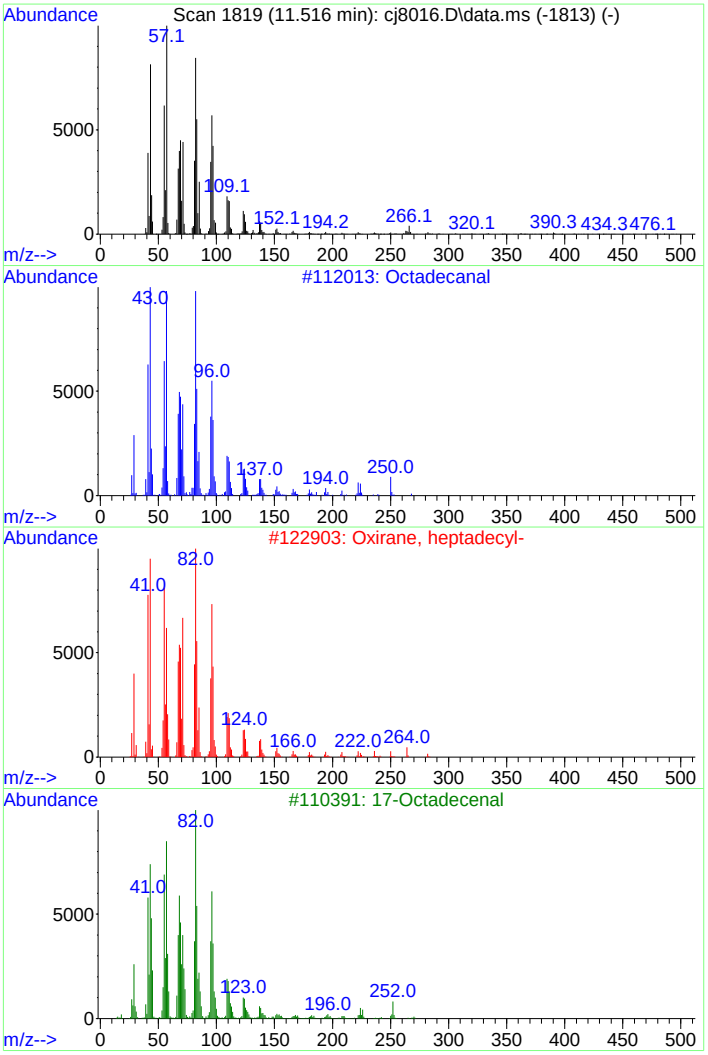
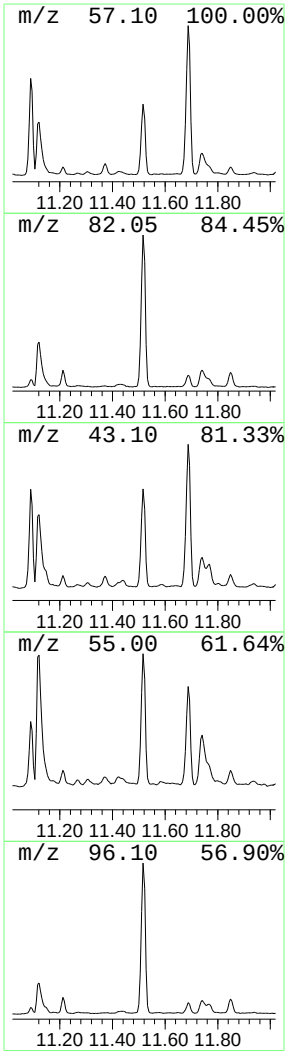
Peak Number 9 Unknown alcohol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.517	50.69 ppm	4571080	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanal	268	C18H36O	000638-66-4	90
2	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	86
3	17-Octadecenal	266	C18H34O	056554-86-0	86
4	Octadecanal	268	C18H36O	000638-66-4	83
5	16-Octadecenal	266	C18H34O	056554-87-1	80





Library Search Compound Report

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Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
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Sample : jd91204-9
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ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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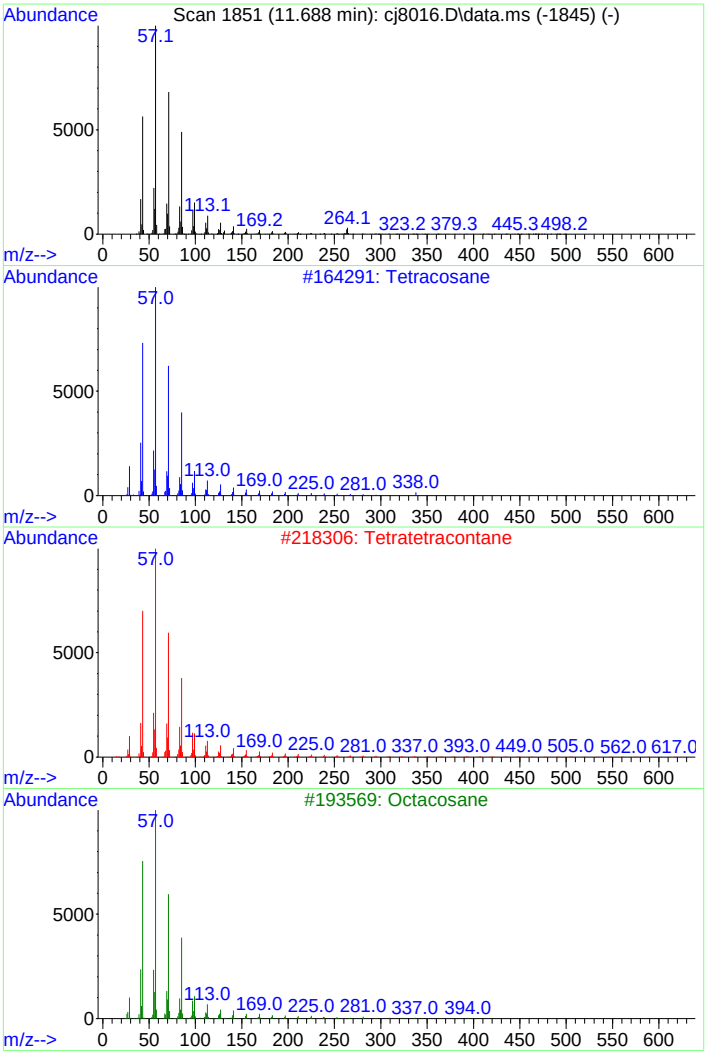
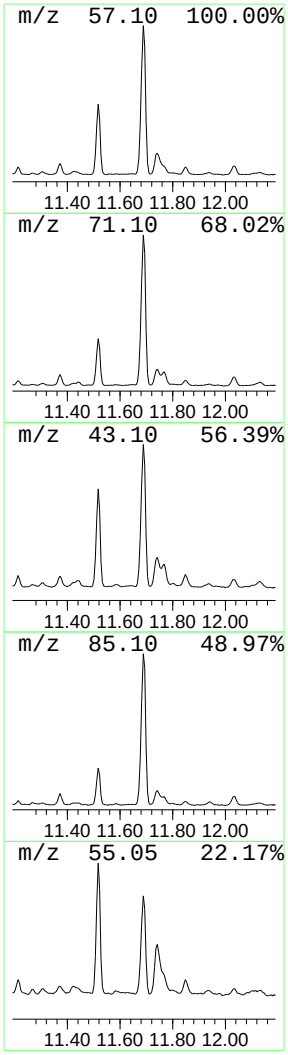
Peak Number 10 Alkane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.688	52.88 ppm	4769160	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	91
2	Tetratetracontane	619	C44H90	007098-22-8	91
3	Octacosane	394	C28H58	000630-02-4	91
4	Heneicosane	296	C21H44	000629-94-7	90
5	Octadecane, 1-iodo-	380	C18H37I	000629-93-6	86





Library Search Compound Report

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Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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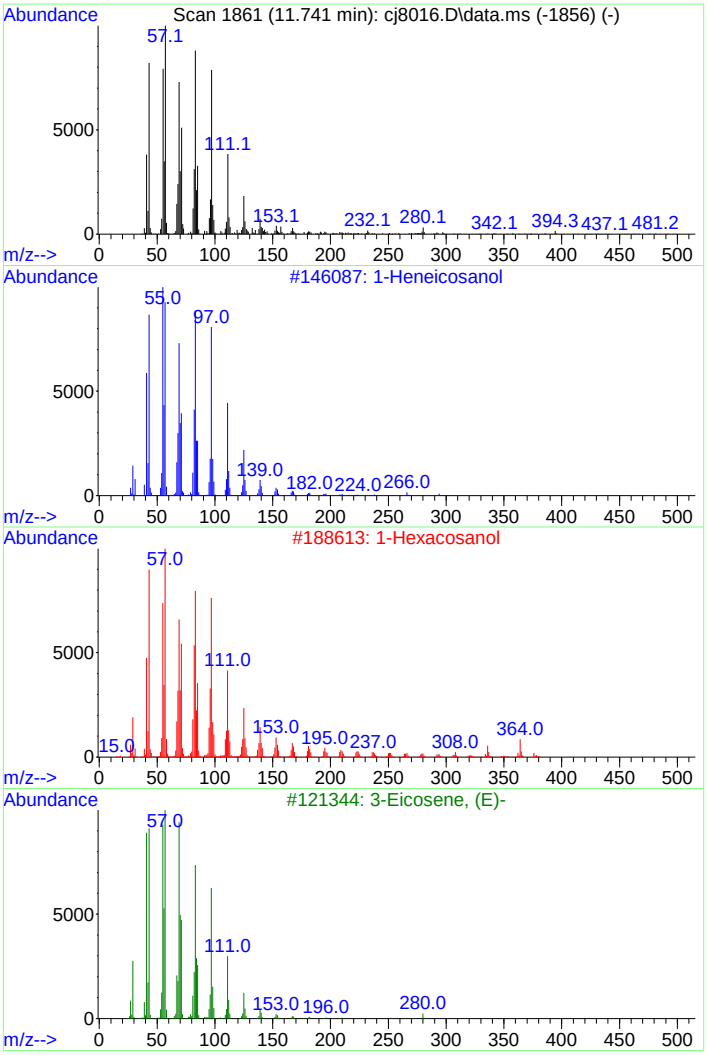
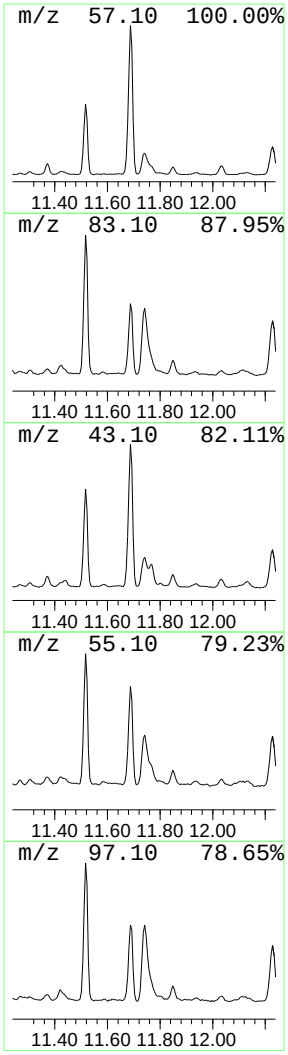
Peak Number 11 Unknown alcohol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.741	31.28 ppm	2821160	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	93
2	1-Hexacosanol	382	C26H54O	000506-52-5	93
3	3-Eicosene, (E)-	280	C20H40	074685-33-9	93
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	93
5	1-Heptacosanol	396	C27H56O	002004-39-9	91





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Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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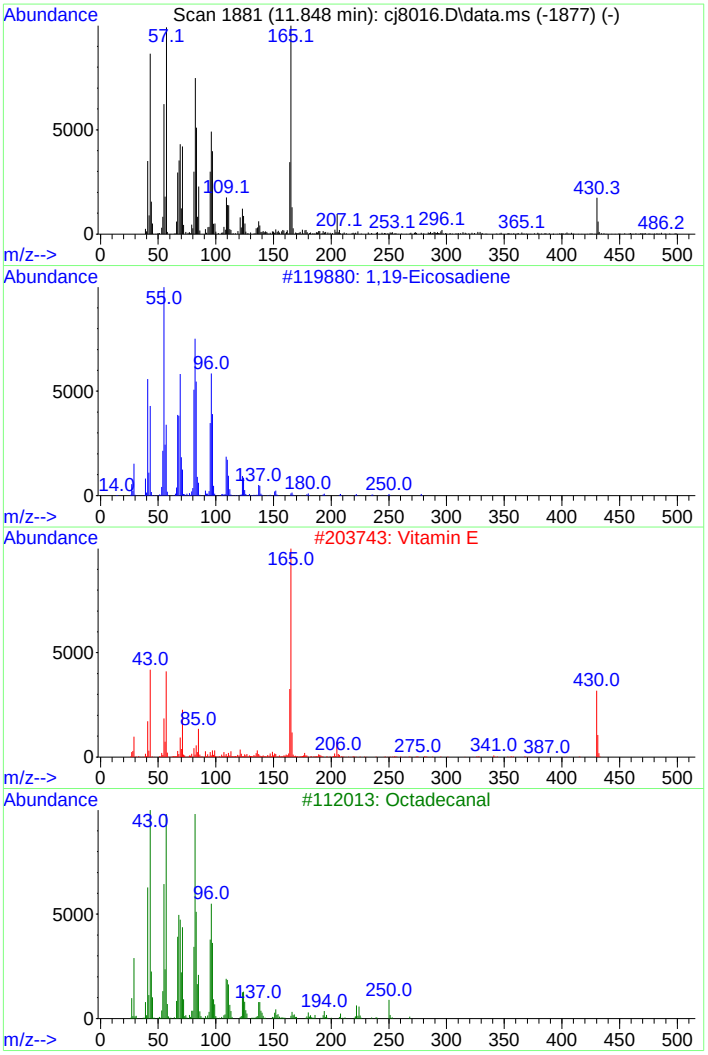
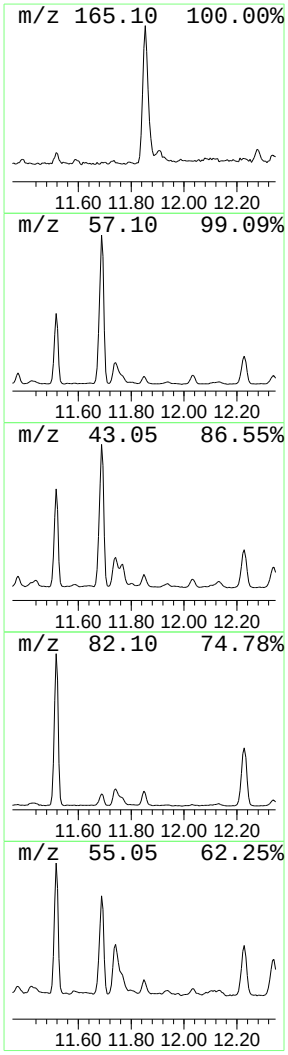
Peak Number 12 Vitamin E Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.848	8.14 ppm	734305	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,19-Eicosadiene	278	C20H38	014811-95-1	84
2	Vitamin E	430	C29H50O2	000059-02-9	55
3	Octadecanal	268	C18H36O	000638-66-4	53
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	50
5	1,16-Hexadecanediol	258	C16H34O2	007735-42-4	49





Library Search Compound Report

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Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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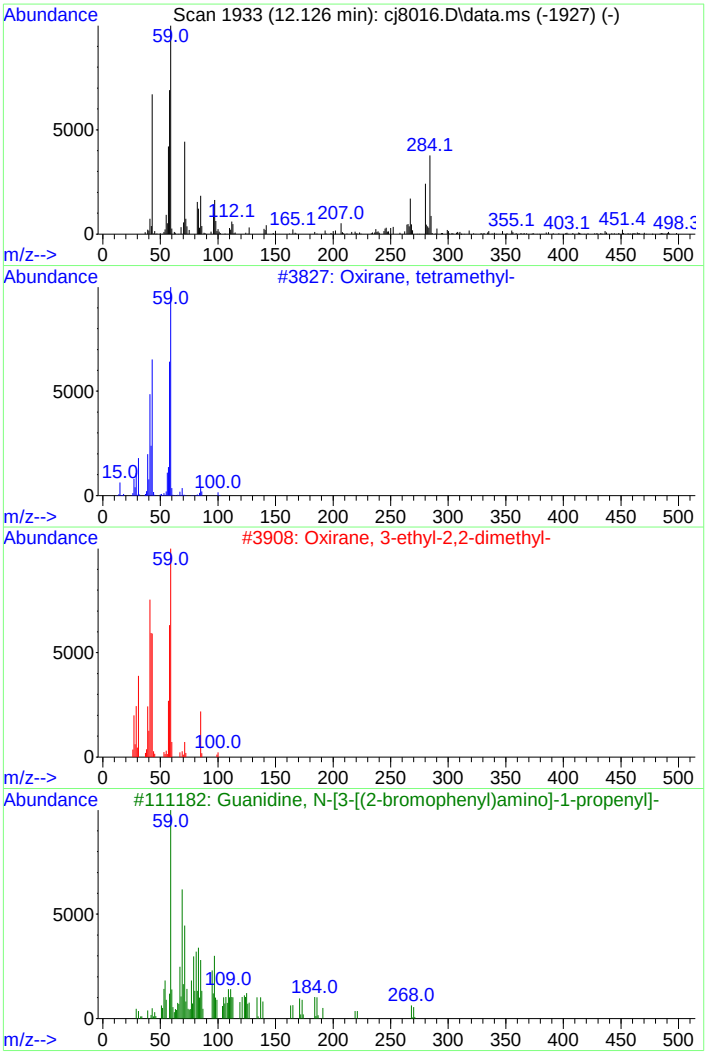
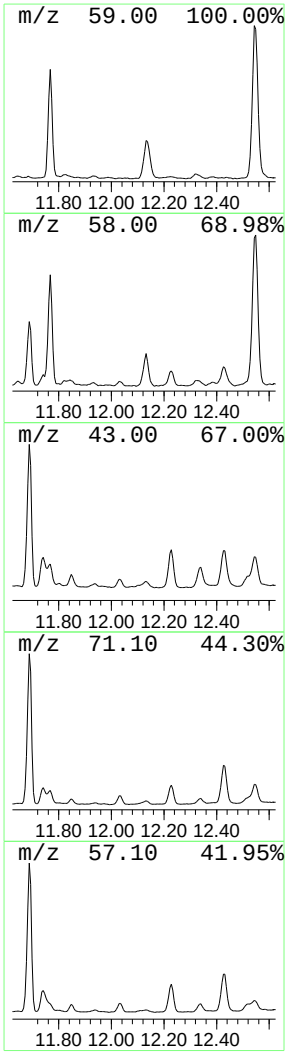
Peak Number 13 Unknown alcohol Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.126	6.57 ppm	592463	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	43
2	Oxirane, 3-ethyl-2,2-dimethyl-	100	C6H12O	001192-22-9	43
3	Guanidine, N-[3-[(2-bromophenyl)...	268	C10H13BrN4	1000349-85-6	43
4	D-Ribose, 5-O-methyl-2,3-O-(1-me...	204	C9H16O5	064018-53-7	43
5	2-Pentacosanone	366	C25H50O	075207-54-4	42





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Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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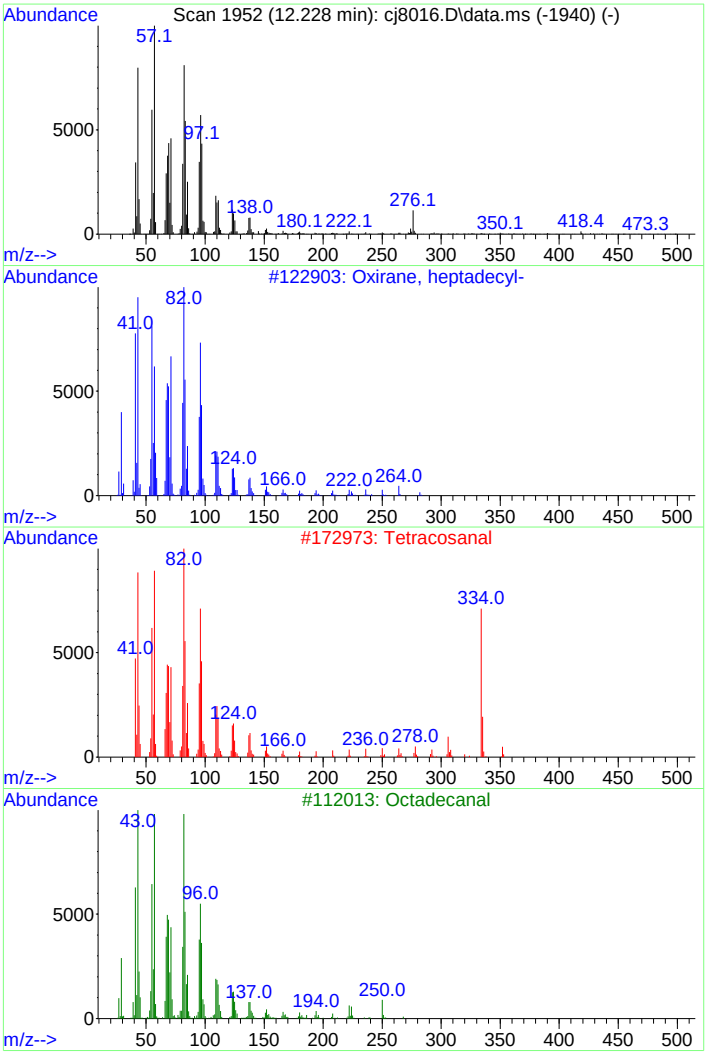
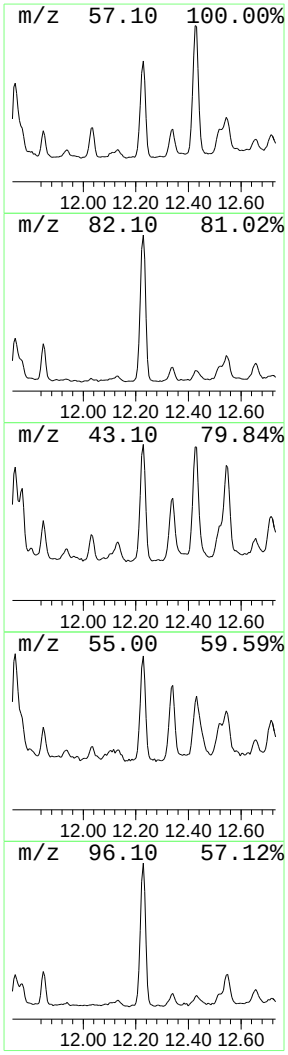
Peak Number 14 Unknown alcohol Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.228	30.29 ppm	2731850	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	90
2	Tetracosanal	352	C24H48O	057866-08-7	90
3	Octadecanal	268	C18H36O	000638-66-4	87
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	87
5	Hexadecanal	240	C16H32O	000629-80-1	87





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Data File : cj8016.D
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Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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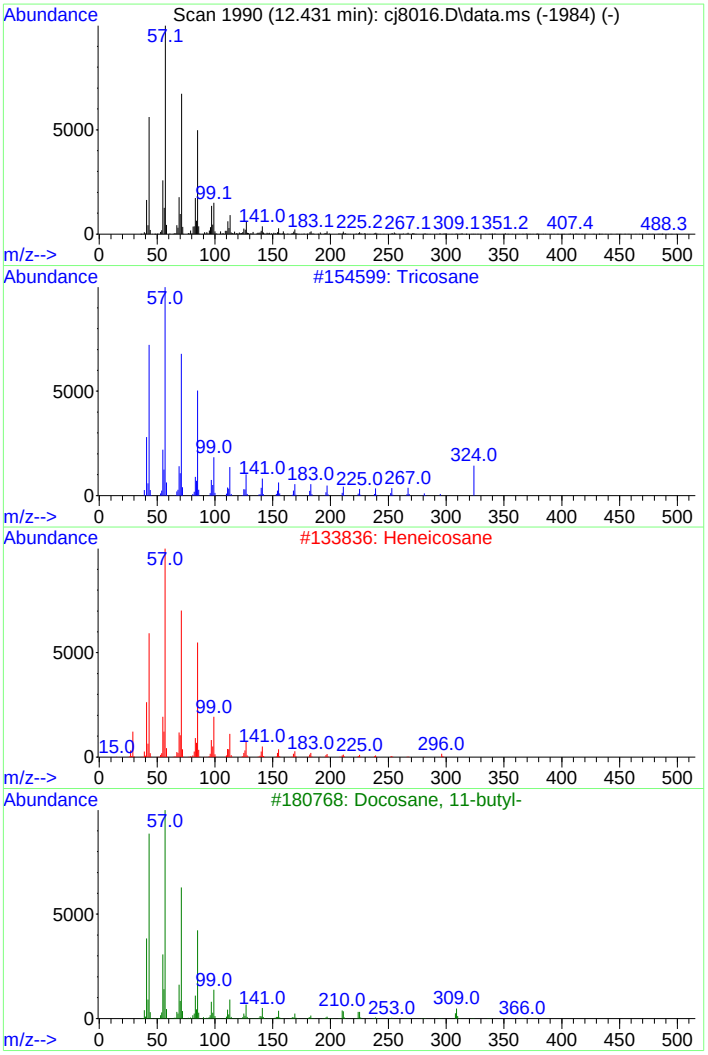
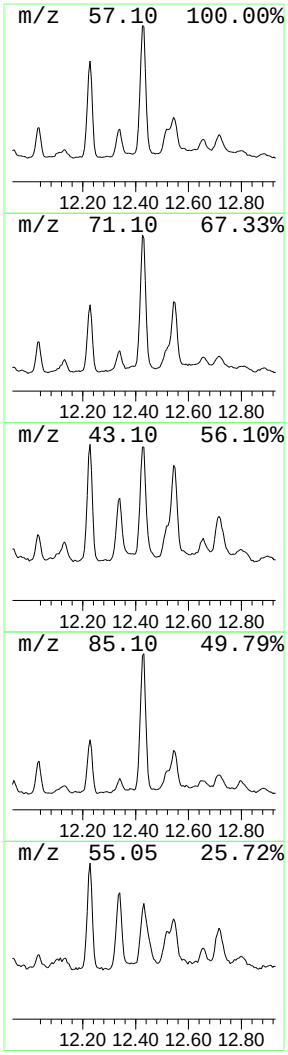
Peak Number 15 Alkane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.431	30.34 ppm	2736070	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricosane	324	C23H48	000638-67-5	93
2	Heneicosane	296	C21H44	000629-94-7	91
3	Docosane, 11-butyl-	366	C26H54	013475-76-8	90
4	Tetracosane	338	C24H50	000646-31-1	90
5	Octadecane, 5,14-dibutyl-	366	C26H54	055282-13-8	89





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Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
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Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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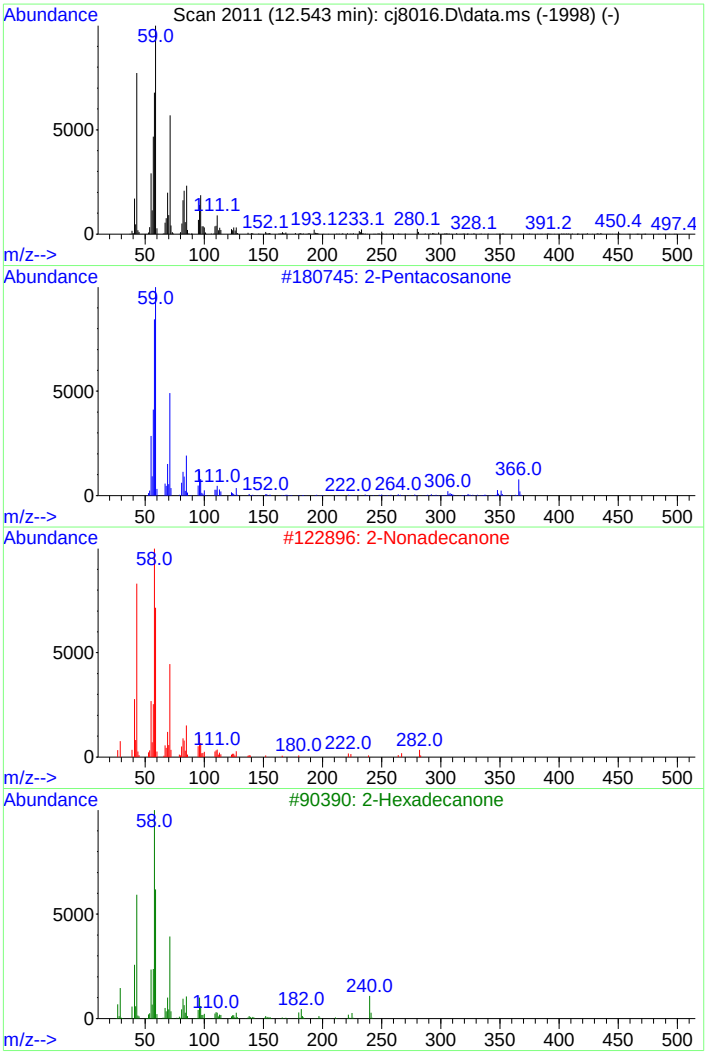
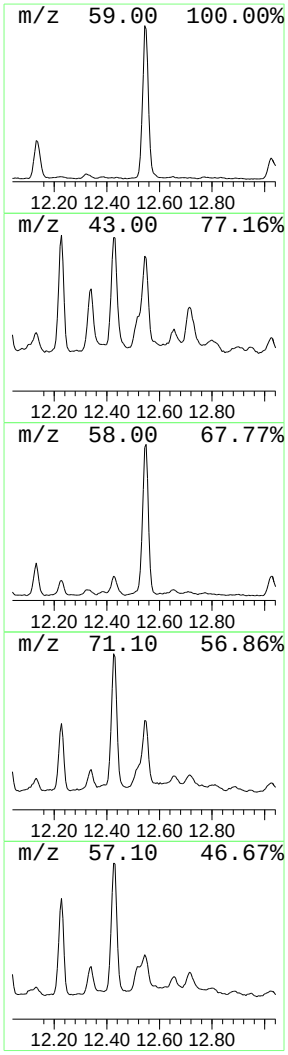
Peak Number 16 Unknown alcohol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.543	37.39 ppm	3372370	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentacosanone	366	C25H50O	075207-54-4	53
2	2-Nonadecanone	282	C19H38O	000629-66-3	52
3	2-Hexadecanone	240	C16H32O	018787-63-8	47
4	Oxirane, 3-ethyl-2,2-dimethyl-	100	C6H12O	001192-22-9	47
5	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	43





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Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
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Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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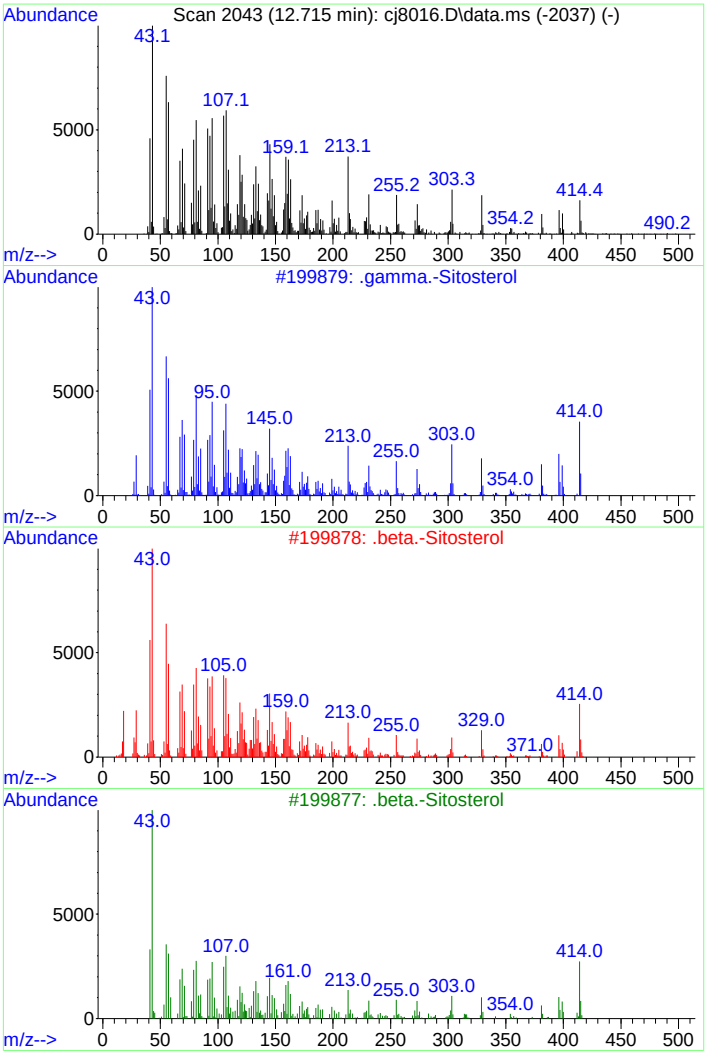
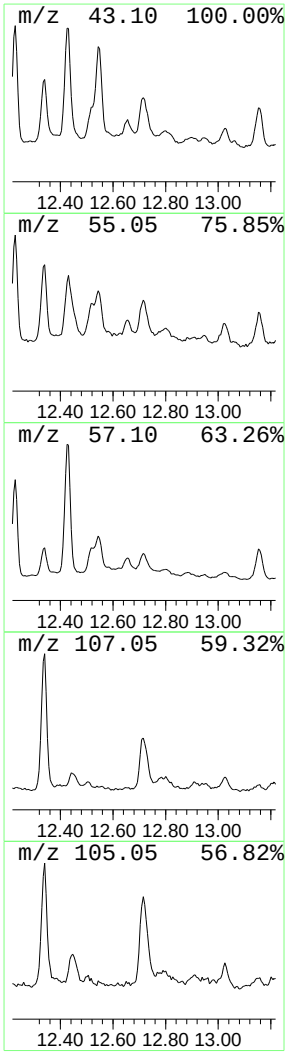
Peak Number 17 Sitosterol Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.715	27.03 ppm	2437270	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	96
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
4	.gamma.-Sitosterol	414	C29H50O	000083-47-6	89
5	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	53





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Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
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Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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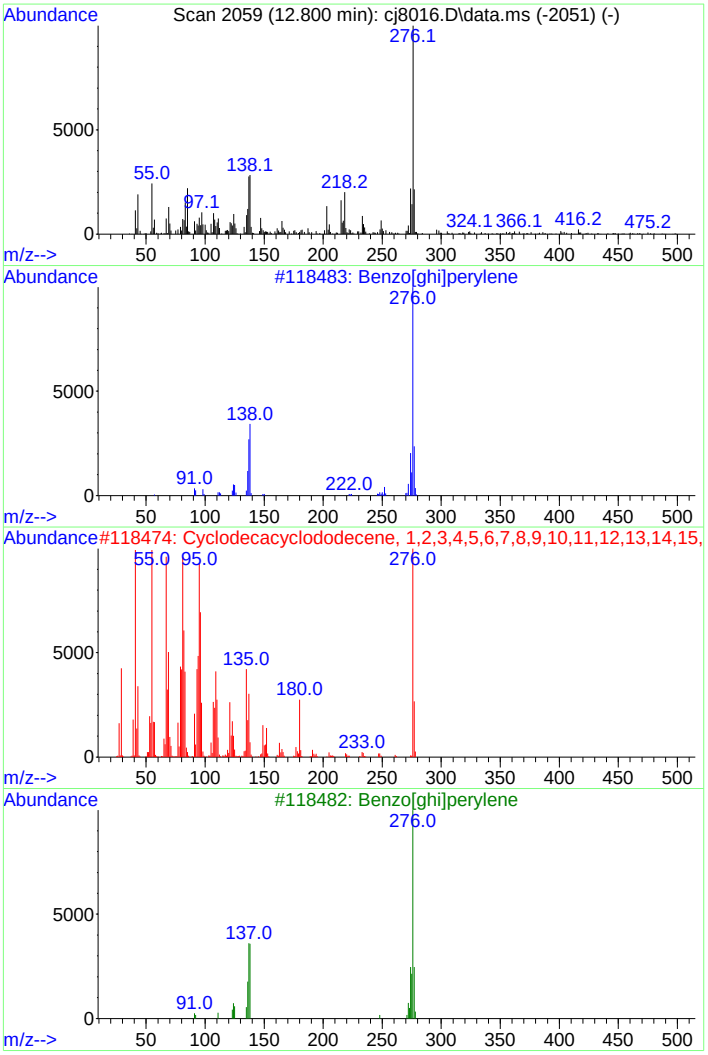
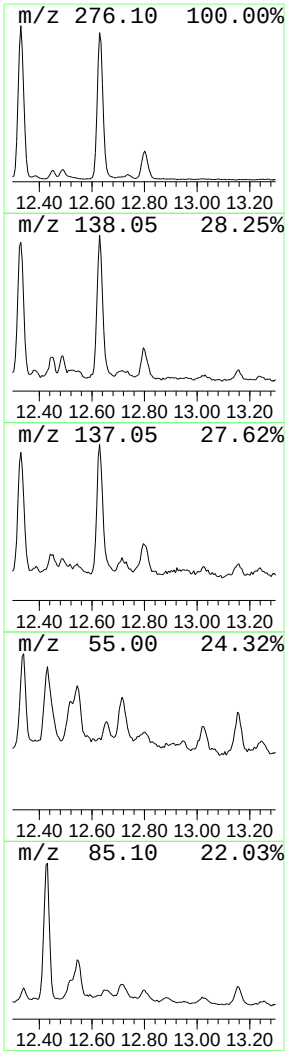
Peak Number 18 Unknown PAH substance Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.800	14.58 ppm	1315160	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	93
2	Cyclodecacyclododecene, 1,2,3,4,...	276	C20H36	014113-80-5	86
3	Benzo[ghi]perylene	276	C22H12	000191-24-2	76
4	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	70
5	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	70





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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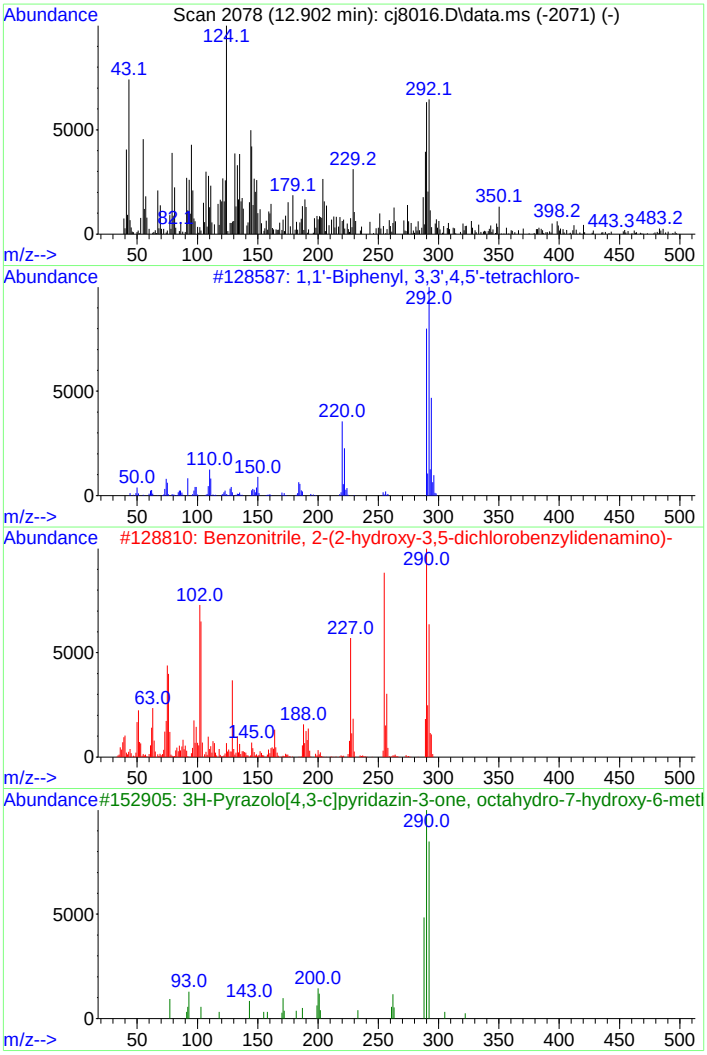
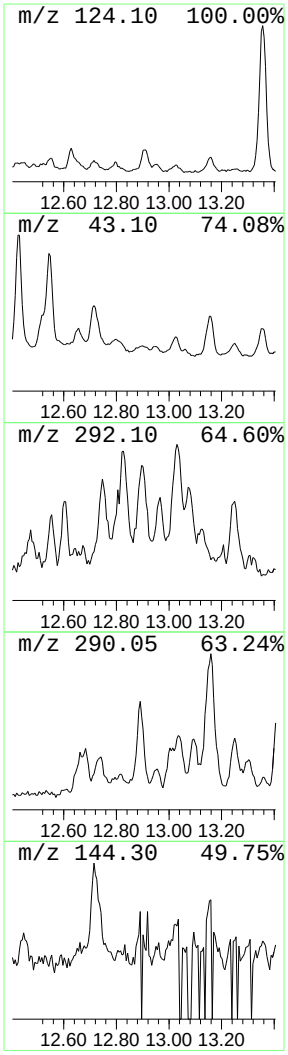
Peak Number 19 Unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.902	5.81 ppm	524343	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 3,3',4,5'-tetrach...	290	C12H6Cl4	041464-48-6	25
2	Benzonitrile, 2-(2-hydroxy-3,5-d...	290	C14H8Cl2N2O	316133-55-8	25
3	3H-Pyrazolo[4,3-c]pyridazin-3-on...	322	C18H18N4O2	035426-80-3	25
4	1,1'-Biphenyl, 3,3',4,4'-tetrach...	290	C12H6Cl4	032598-13-3	25
5	1,1'-Biphenyl, 2,3',4,4'-tetrach...	290	C12H6Cl4	032598-10-0	25





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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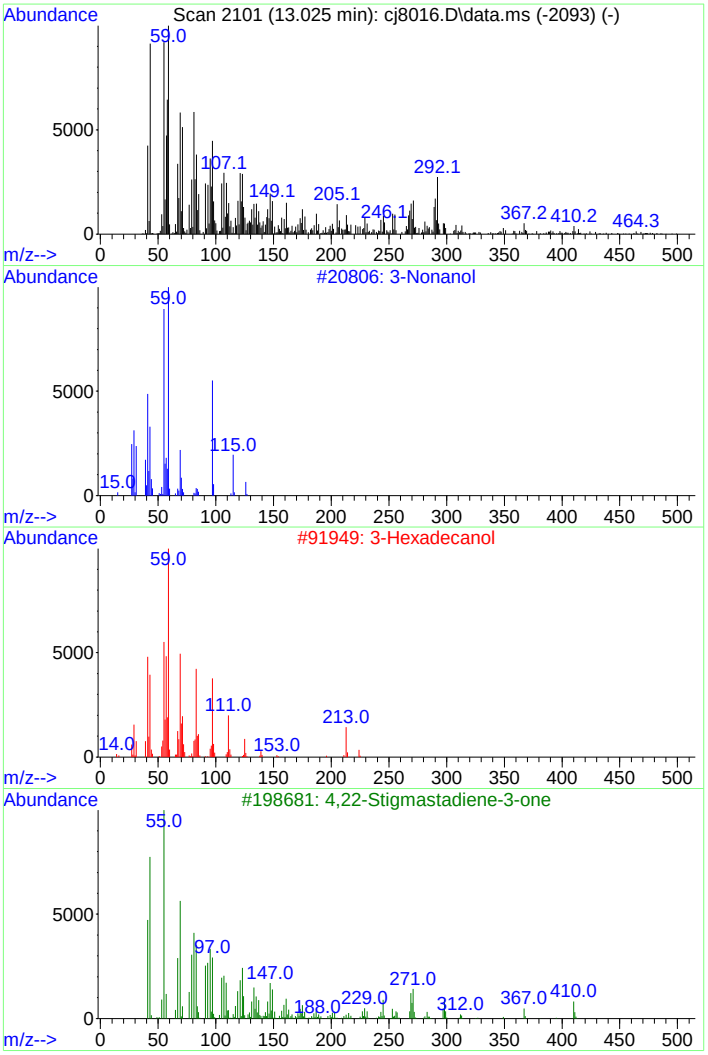
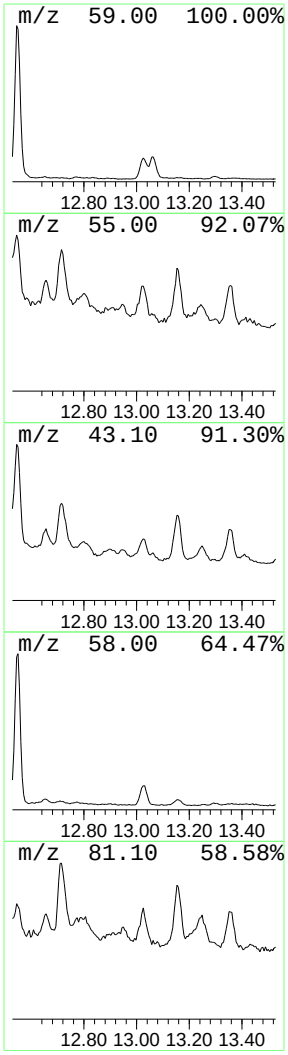
Peak Number 20 Unknown Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.025	11.17 ppm	1007650	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Nonanol	144	C9H20O	000624-51-1	38
2	3-Hexadecanol	242	C16H34O	000593-03-3	38
3	4,22-Stigmastadiene-3-one	410	C29H46O	020817-72-5	30
4	.alpha.-Methyl-.alpha.-[4-methyl...	172	C10H20O2	107358-56-5	25
5	Fumaric acid, tetradec-3-enyl un...	464	C29H52O4	1000348-84-2	25





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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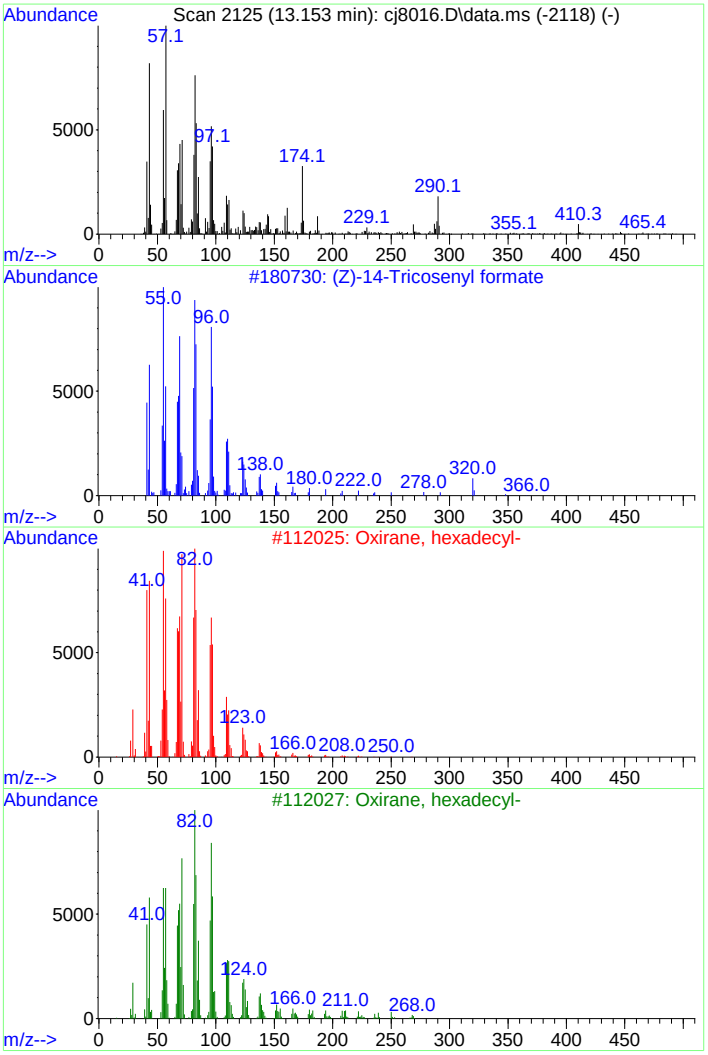
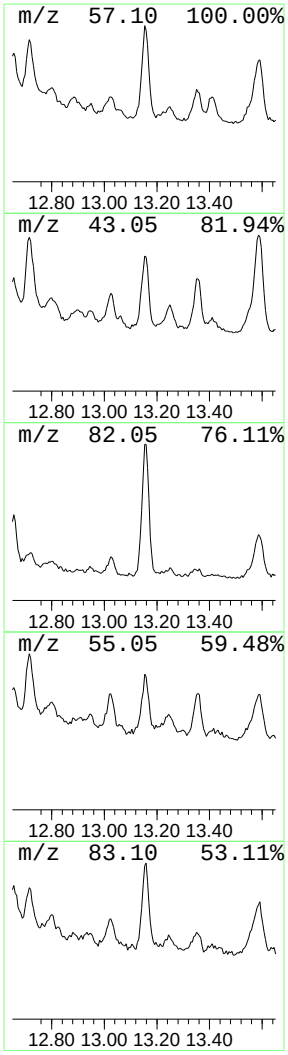
Peak Number 21 Unknown alcohol Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.153	12.98 ppm	1170210	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	90
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	87
3	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	83
4	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	81
5	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	70





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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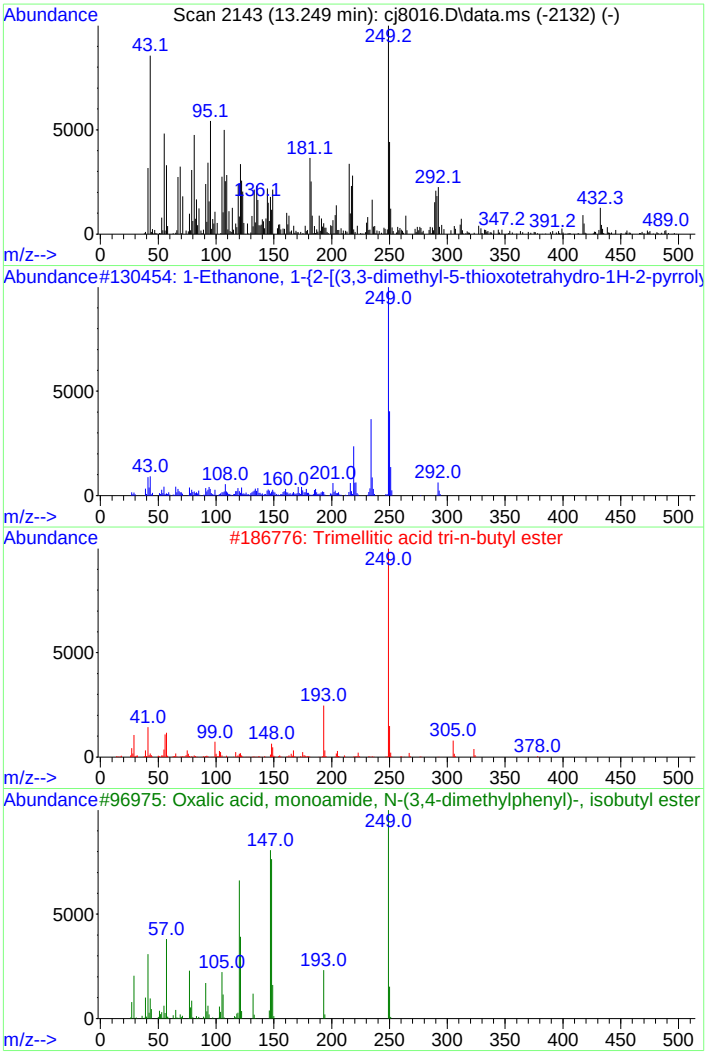
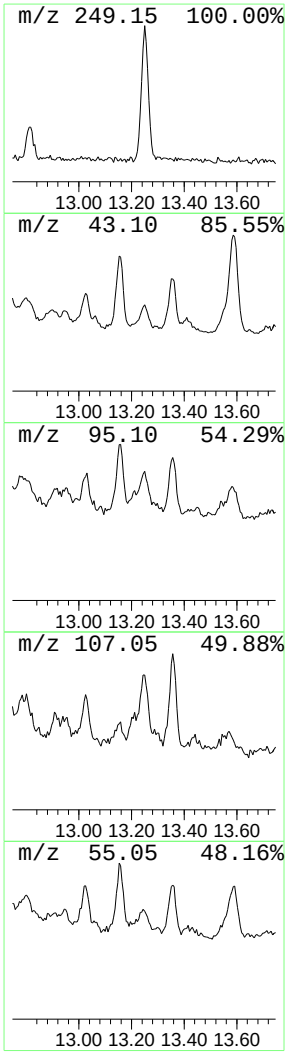
Peak Number 22 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.249	11.23 ppm	1012350	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Ethanone, 1-{2-[(3,3-dimethyl-...	292	C16H24N2OS	077109-20-7	35
2	Trimellitic acid tri-n-butyl ester	378	C21H30O6	001726-23-4	18
3	Oxalic acid, monoamide, N-(3,4-d...	249	C14H19NO3	1000309-54-8	18
4	Dibenzo[c,f]1,7-naphthyridin-9(7...	340	C23H20N2O	1000271-50-2	14
5	2-(1,3-Dithiolan-2-yliden)-2-(4-...	249	C12H11NOS2	286009-86-7	14





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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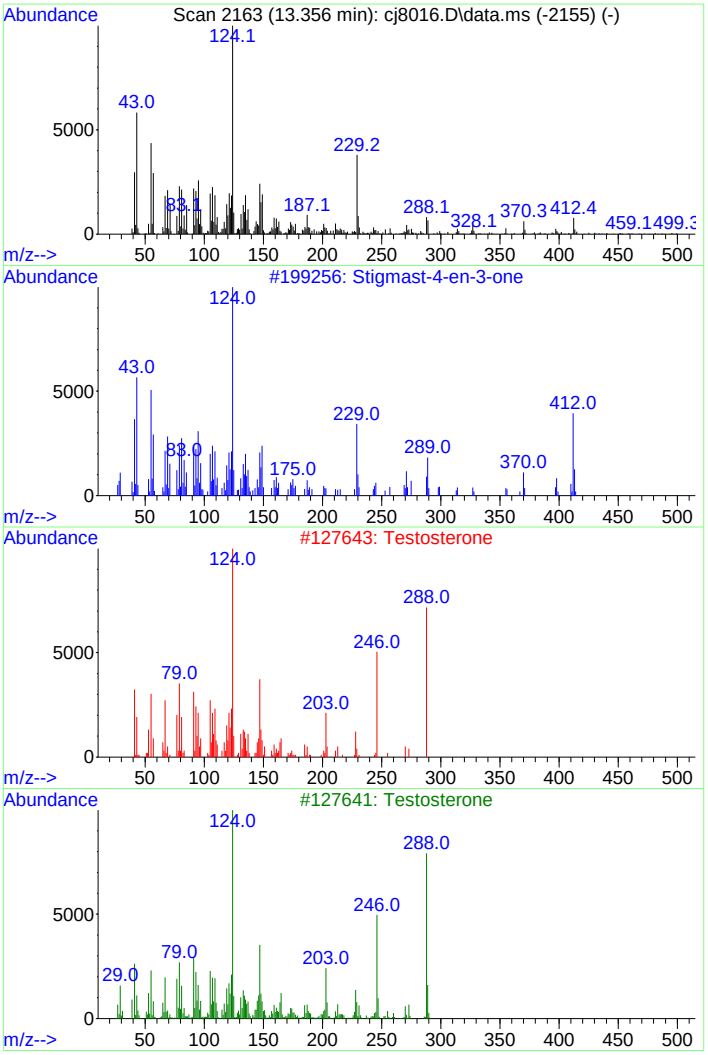
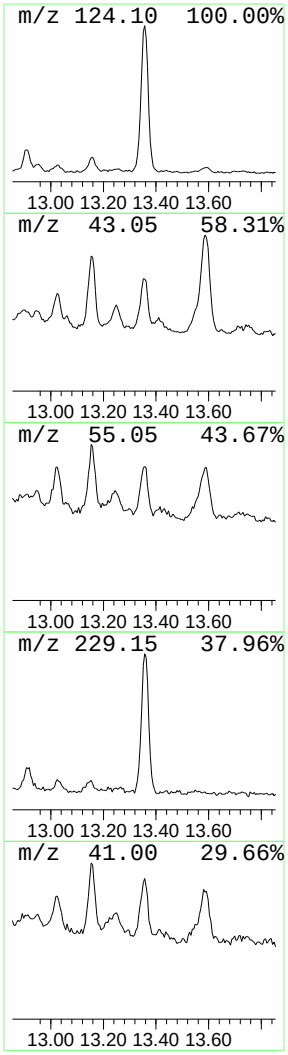
Peak Number 23 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.356	12.24 ppm	1103940	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	96
2	Testosterone	288	C19H28O2	000058-22-0	89
3	Testosterone	288	C19H28O2	000058-22-0	58
4	Androst-4-en-3-one, 17-hydroxy-,...	288	C19H28O2	000604-39-7	58
5	Pregn-4-ene-3,20-dione, 14-methyl-	328	C22H32O2	055162-96-4	53





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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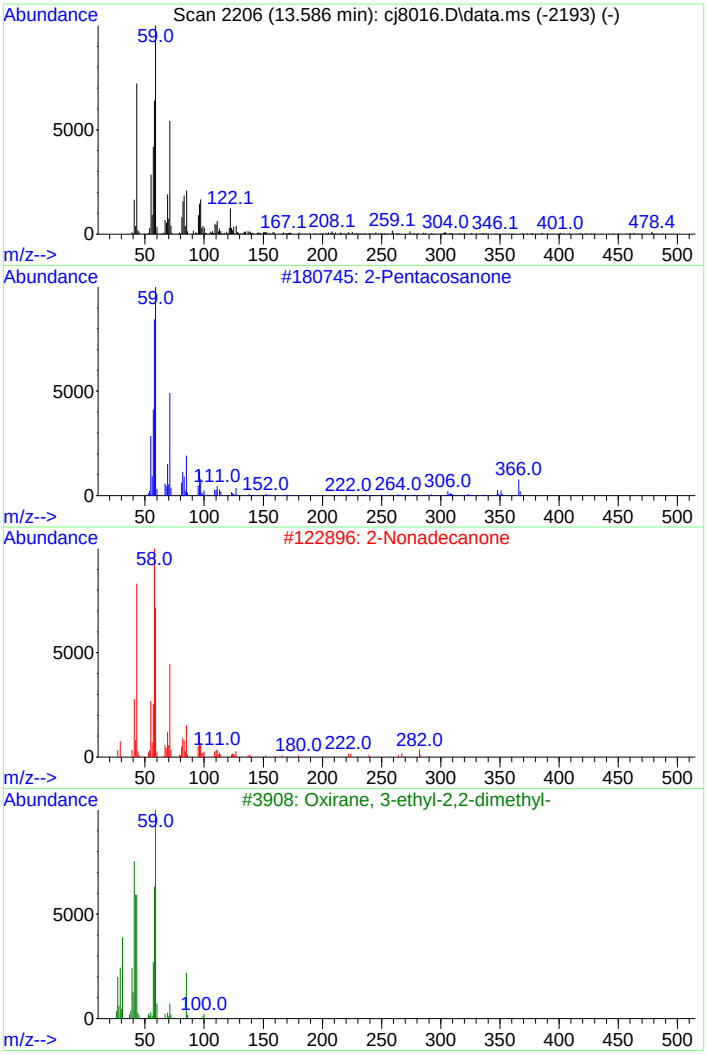
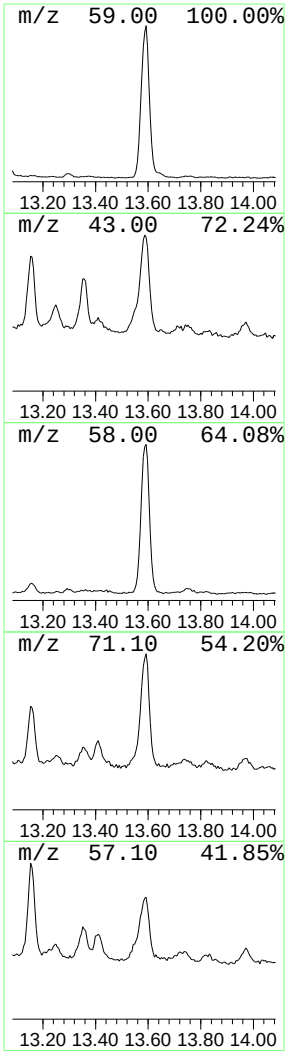
Peak Number 24 Unknown alcohol Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.586	18.02 ppm	1625560	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentacosanone	366	C25H50O	075207-54-4	80
2	2-Nonadecanone	282	C19H38O	000629-66-3	58
3	Oxirane, 3-ethyl-2,2-dimethyl-	100	C6H12O	001192-22-9	50
4	2-Nonacosanone	422	C29H58O	017600-99-6	47
5	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	46





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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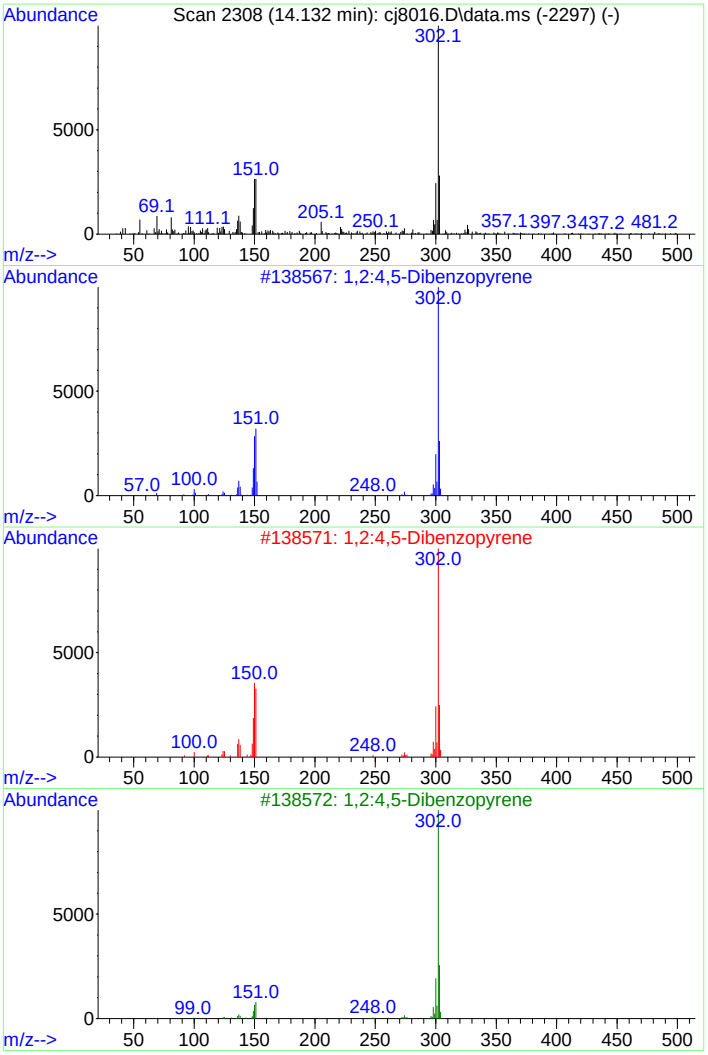
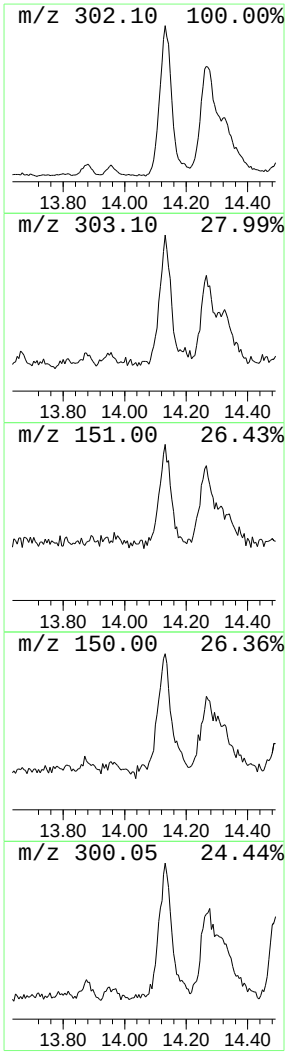
Peak Number 25 Dibenzopyrene Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.132	5.55 ppm	500796	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	96
2	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	95
3	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	94
4	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	93
5	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	93





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8016.D
Acq On : 01 Jul 2024 09:49 pm
Operator : karimam
Sample : jd91204-9
Misc : op55759,ecj348,30.8,,,1,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.542	8.7	ppm	472636	2	4.365	2171400	40.0
Unknown	4.574	5.6	ppm	303982	2	4.365	2171400	40.0
Pyrene methyl	9.126	6.8	ppm	795357	9	9.971	4645730	40.0
Pyrene methyl	9.222	7.3	ppm	844413	9	9.971	4645730	40.0
Unknown	9.890	11.1	ppm	1284370	9	9.971	4645730	40.0
Unknown alcohol	10.527	24.2	ppm	2810970	10	9.971	4645730	40.0
Alkane	11.089	29.2	ppm	2633780	11	11.287	3607360	40.0
Unknown alcohol	11.121	44.7	ppm	4029040	11	11.287	3607360	40.0
Unknown alcohol	11.517	50.7	ppm	4571080	11	11.287	3607360	40.0
Alkane	11.688	52.9	ppm	4769160	11	11.287	3607360	40.0
Unknown alcohol	11.741	31.3	ppm	2821160	11	11.287	3607360	40.0
Vitamin E	11.848	8.1	ppm	734305	11	11.287	3607360	40.0
Unknown alcohol	12.126	6.6	ppm	592463	11	11.287	3607360	40.0
Unknown alcohol	12.228	30.3	ppm	2731850	11	11.287	3607360	40.0
Alkane	12.431	30.3	ppm	2736070	11	11.287	3607360	40.0
Unknown alcohol	12.543	37.4	ppm	3372370	11	11.287	3607360	40.0
Sitosterol	12.715	27.0	ppm	2437270	11	11.287	3607360	40.0
Unknown PAH sub...	12.800	14.6	ppm	1315160	11	11.287	3607360	40.0
Unknown	12.902	5.8	ppm	524343	11	11.287	3607360	40.0
Unknown	13.025	11.2	ppm	1007650	11	11.287	3607360	40.0
Unknown alcohol	13.153	13.0	ppm	1170210	11	11.287	3607360	40.0
Unknown	13.249	11.2	ppm	1012350	11	11.287	3607360	40.0
Unknown	13.356	12.2	ppm	1103940	11	11.287	3607360	40.0
Unknown alcohol	13.586	18.0	ppm	1625560	11	11.287	3607360	40.0
Dibenzopyrene	14.132	5.5	ppm	500796	11	11.287	3607360	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 07/02/24 05:10

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10 Inst : GCMSCJ
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 02 04:14:22 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.365	152	373603	40.00	ppm	0.00
24) Naphthalene-d8	5.162	136	1377837	40.00	ppm	0.00
46) Acenaphthene-d10	6.307	164	774136	40.00	ppm	0.00
69) Phenanthrene-d10	7.489	188	1411856	40.00	ppm	0.00
84) Chrysene-d12	9.965	240	1106039	40.00	ppm	0.00
93) Perylene-d12	11.281	264	1162625	40.00	ppm	0.01
103) 1,4-Dichlorobenzene-d4a	4.365	152	373603	40.00	ppm	0.00
105) Phenanthrene-d10a	7.489	188	1411856	40.00	ppm	0.00
107) Naphthalene-d8a	5.162	136	1377837	40.00	ppm	0.00
109) Phenanthrene-d10b	7.489	188	1411856	40.00	ppm	0.00
112) Chrysene-d12a	9.965	240	1106039	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.547	112	198769	18.51	ppm	0.02
Spiked Amount 50.000			Recovery = 37.02%			
8) Phenol-d5	4.173	99	270757	19.55	ppm	0.02
Spiked Amount 50.000			Recovery = 39.10%			
25) Nitrobenzene-d5	4.718	82	265094	18.79	ppm	0.00
Spiked Amount 50.000			Recovery = 37.58%			
51) 2-Fluorobiphenyl	5.841	172	509257	20.91	ppm	0.00
Spiked Amount 50.000			Recovery = 41.82%			
74) 2,4,6-Tribromophenol	6.911	330	70307	22.71	ppm	0.00
Spiked Amount 50.000			Recovery = 45.42%			
87) Terphenyl-d14	8.954	244	576364	21.09	ppm	0.00
Spiked Amount 50.000			Recovery = 42.18%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
18) Acetophenone	4.627	105	4188	0.2439	ppm	87
38) Naphthalene	5.178	128	109898	3.3297	ppm	100
44) 2-Methylnaphthalene	5.612	141	13843	0.7074	ppm	98
53) Biphenyl	5.911	154	6032	0.2268	ppm	97
56) Acenaphthylene	6.211	152	42998	1.4321	ppm	98
59) Acenaphthene	6.334	153	33272	1.5582	ppm	97
62) Dibenzofuran	6.462	168	17137	0.5783	ppm	96
66) Fluorene	6.719	166	31320m	1.3380	ppm	
78) Phenanthrene	7.510	178	654542	19.1832	ppm	99
79) Anthracene	7.553	178	117483	3.4387	ppm	96
80) Carbazole	7.703	167	67011	2.1049	ppm	98
81) Di-n-butylphthalate	8.013	149	14002	0.3560	ppm	99
82) Fluoranthene	8.585	202	1314959	35.5977	ppm	97
86) Pyrene	8.799	202	1137307	30.2357	ppm	99
88) Butylbenzylphthalate	9.436	149	7342m	0.4375	ppm	
89) Benzo[a]anthracene	9.955	228	469334	13.1976	ppm	95
91) Chrysene	9.992	228	530232	16.1605	ppm	98
92) bis(2-Ethylhexyl)phtha...	10.003	149	45356	1.8247	ppm	100
95) Benzo[b]fluoranthene	10.950	252	677245m	19.2830	ppm	
96) Benzo[k]fluoranthene	10.971	252	194947m	6.1686	ppm	
97) Benzo[a]pyrene	11.233	252	402455	13.8423	ppm	99
98) Indeno[1,2,3-cd]pyrene	12.319	276	289417	8.2342	ppm	87
100) Dibenz[a,h]anthracene	12.324	278	76471	2.7229	ppm	94
102) Benzo[g,h,i]perylene	12.618	276	279715	10.2407	ppm	98
104) Benzaldehyde	4.103	105	7512	0.7024	ppm	97

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10 Inst : GCMSCJ
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 02 04:14:22 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

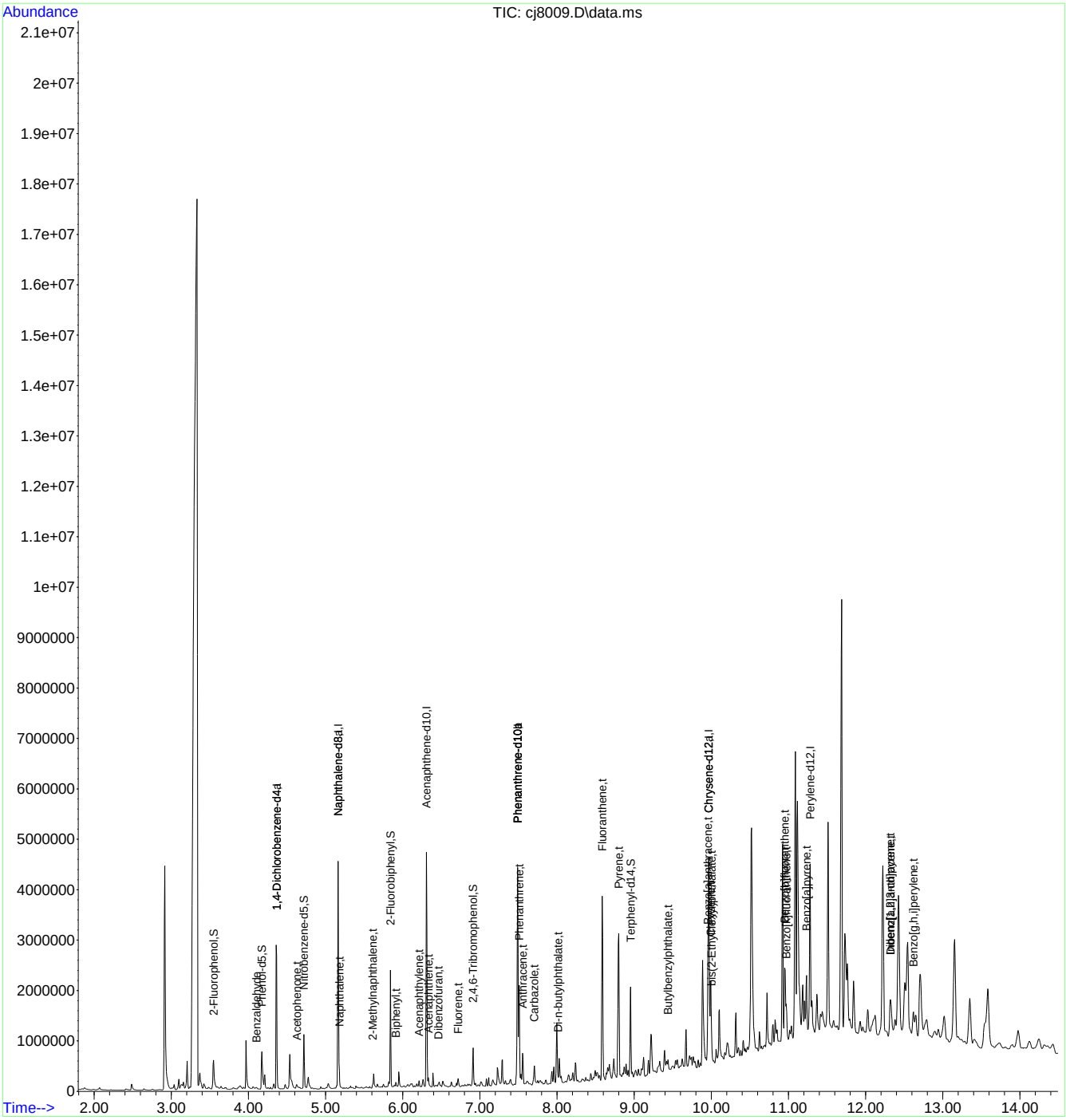
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

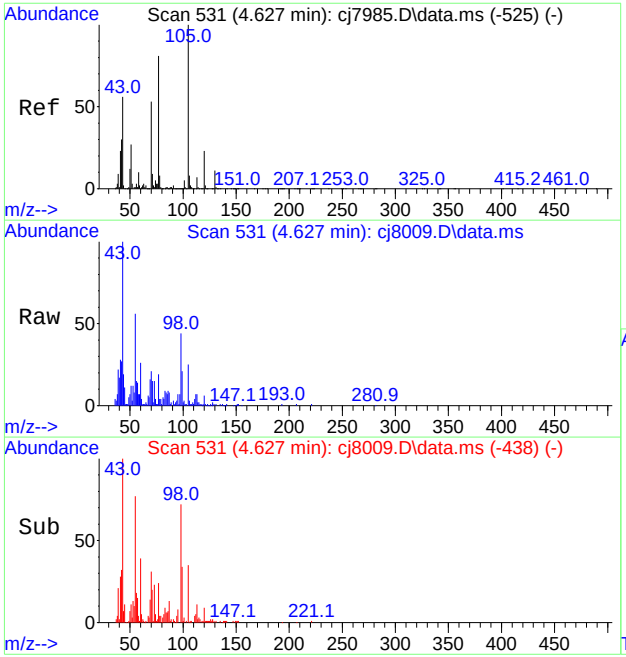
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10 Inst : GCMSCJ
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 02 04:14:22 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

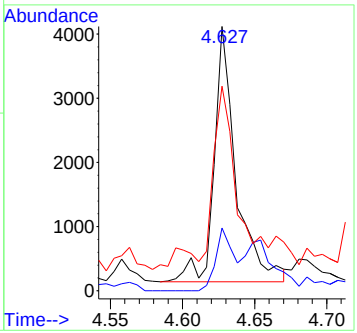


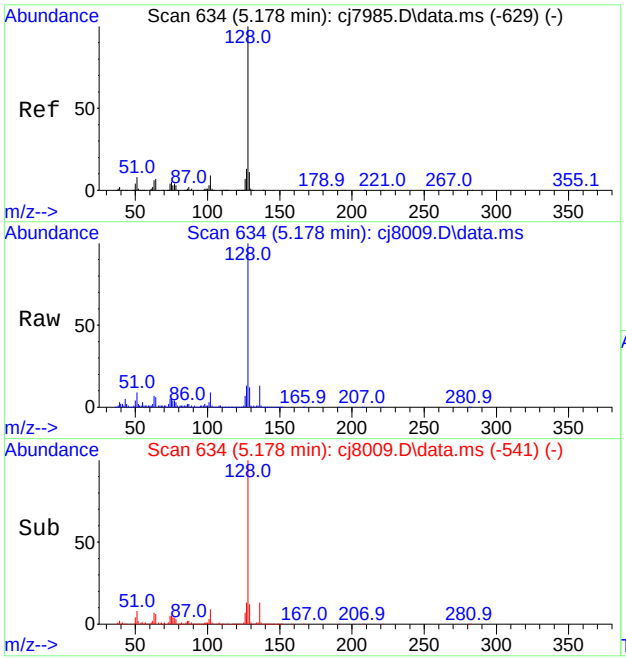


#18
Acetophenone
Concen: 0.2439 ppm
RT: 4.627 min Scan# 531
Delta R.T. 0.000 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:105 Resp: 4188

Ion	Ratio	Lower	Upper
105	100		
120	21.4	0.0	53.1
77	67.1	50.8	110.8

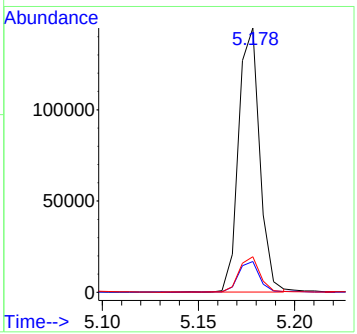


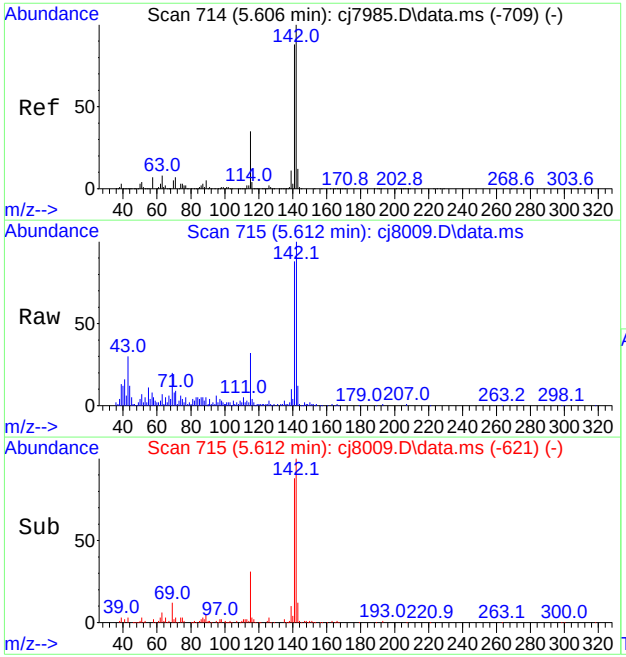


#38
Naphthalene
Concen: 3.3297 ppm
RT: 5.178 min Scan# 634
Delta R.T. 0.000 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:128 Resp: 109898

Ion	Ratio	Lower	Upper
128	100		
129	11.5	0.0	41.3
127	13.3	0.0	43.5

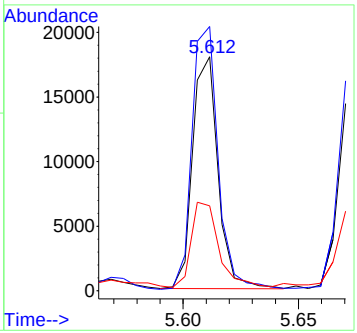


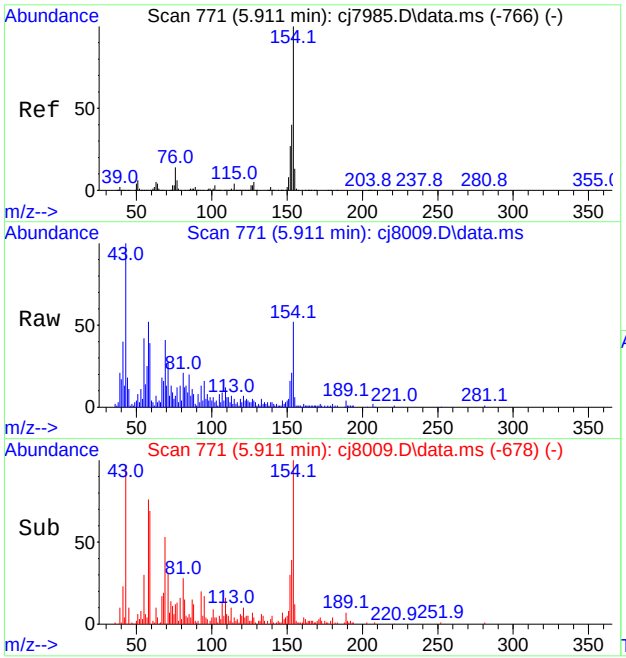


#44
2-Methylnaphthalene
Concen: 0.7074 ppm
RT: 5.612 min Scan# 715
Delta R.T. 0.005 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:141 Resp: 13843

Ion	Ratio	Lower	Upper
141	100		
142	113.3	83.7	143.7
115	34.1	9.3	69.3

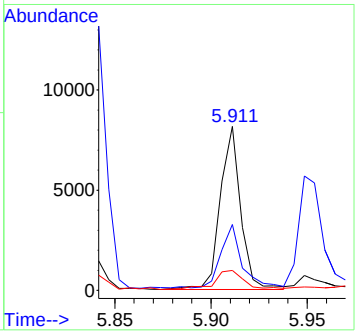


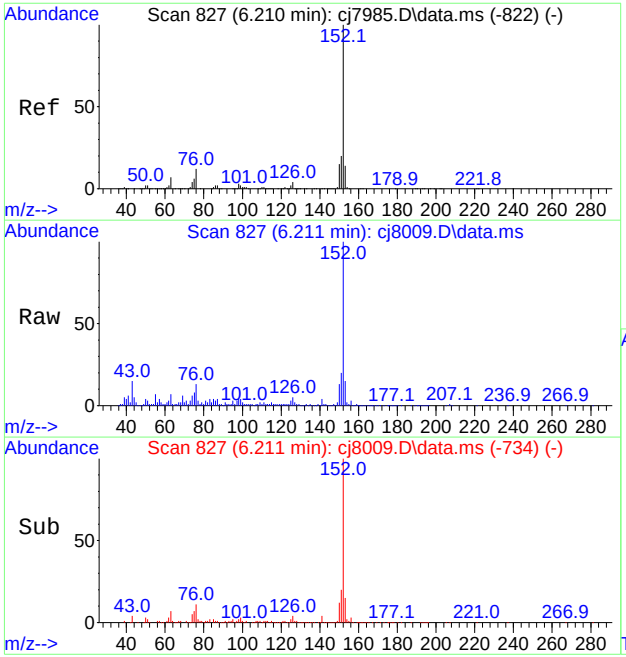


#53
Biphenyl
Concen: 0.2268 ppm
RT: 5.911 min Scan# 771
Delta R.T. 0.000 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:154 Resp: 6032

Ion	Ratio	Lower	Upper
154	100		
153	38.6	10.3	70.3
155	10.6	0.0	42.9

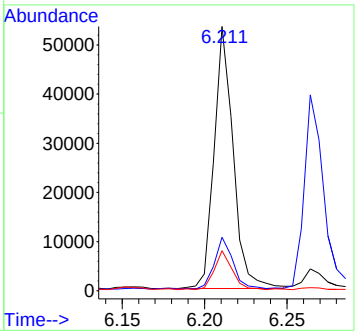


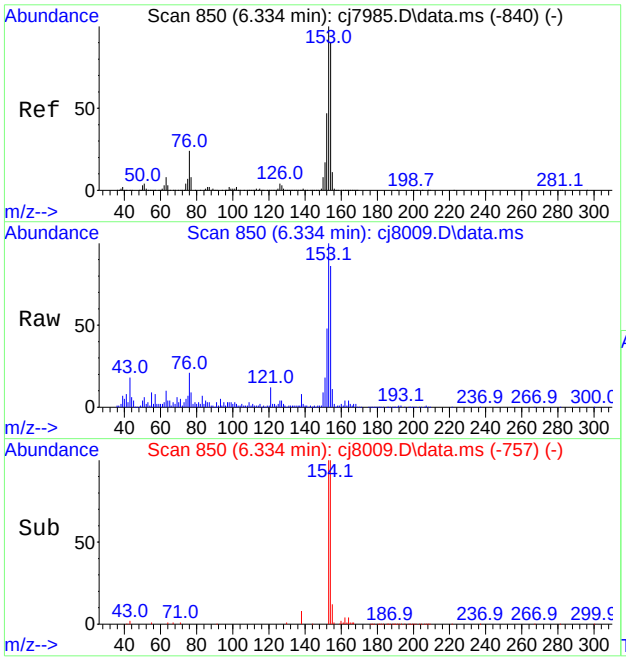


#56
Acenaphthylene
Concen: 1.4321 ppm
RT: 6.211 min Scan# 827
Delta R.T. 0.000 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:152 Resp: 42998

Ion	Ratio	Lower	Upper
152	100		
151	19.6	0.0	50.2
153	14.8	0.0	43.5

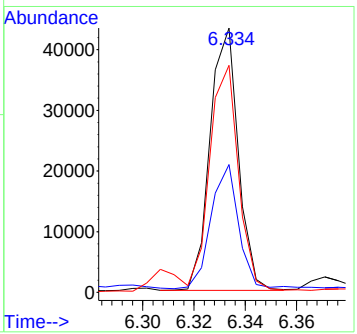


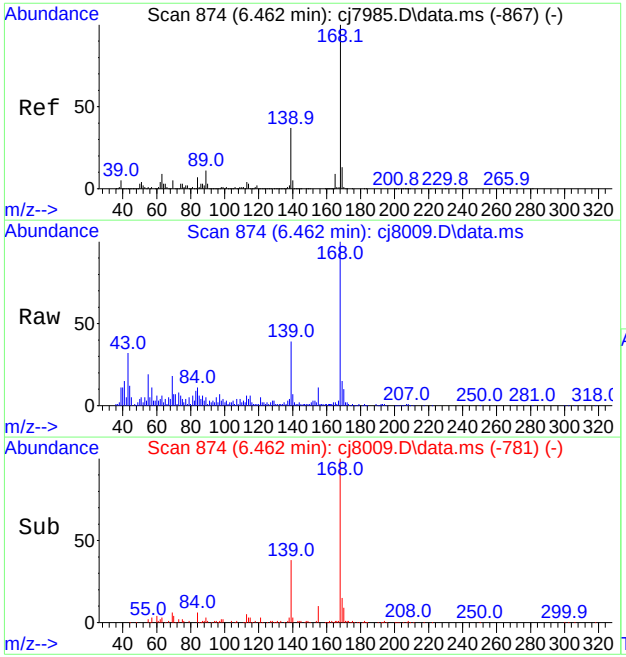


#59
Acenaphthene
Concen: 1.5582 ppm
RT: 6.334 min Scan# 850
Delta R.T. 0.000 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:153 Resp: 33272

Ion	Ratio	Lower	Upper
153	100		
152	46.9	16.9	76.9
154	81.9	56.2	116.2

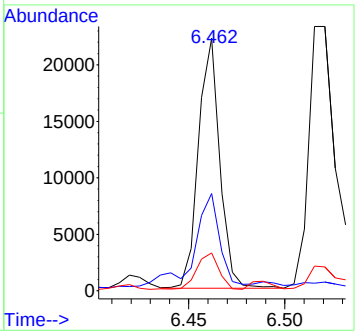


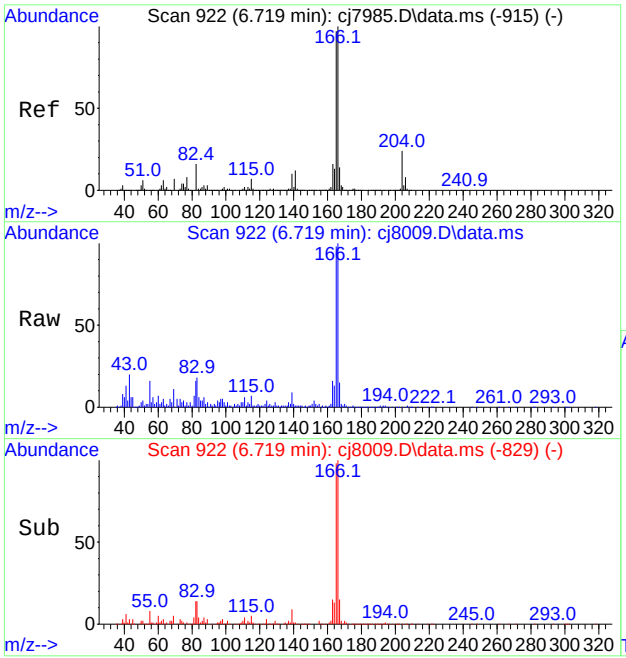


#62
Dibenzofuran
Concen: 0.5783 ppm
RT: 6.462 min Scan# 874
Delta R.T. 0.000 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:168 Resp: 17137

Ion	Ratio	Lower	Upper
168	100		
139	34.9	7.3	67.3
169	14.4	0.0	43.4

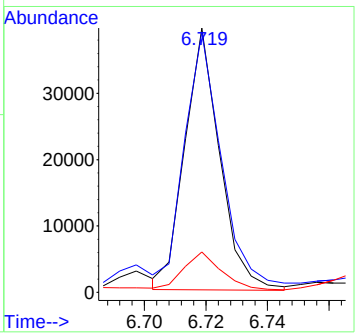


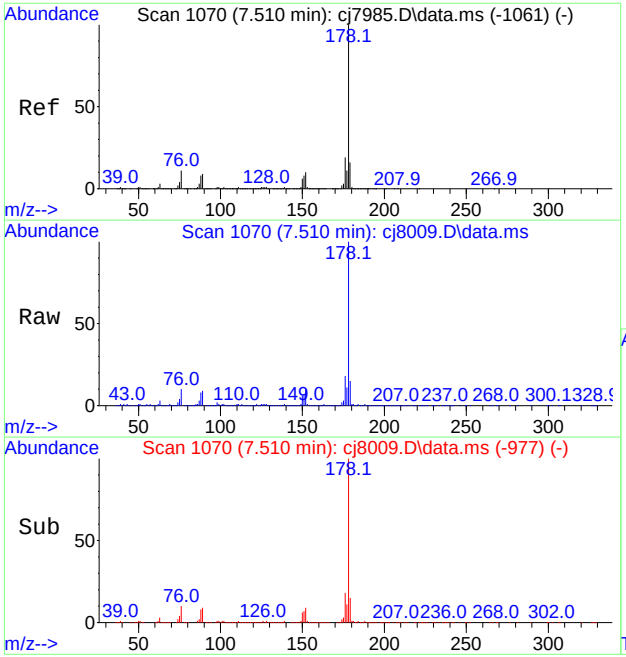


#66
Fluorene
Concen: 1.3380 ppm m
RT: 6.719 min Scan# 922
Delta R.T. 0.000 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:166 Resp: 31320

Ion	Ratio	Lower	Upper
166	100		
165	98.5	67.2	127.2
167	15.3	0.0	43.8

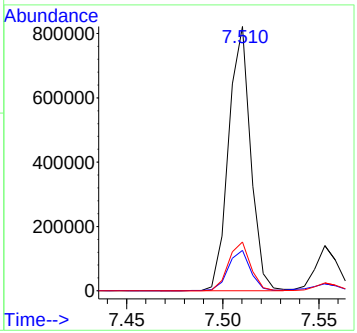


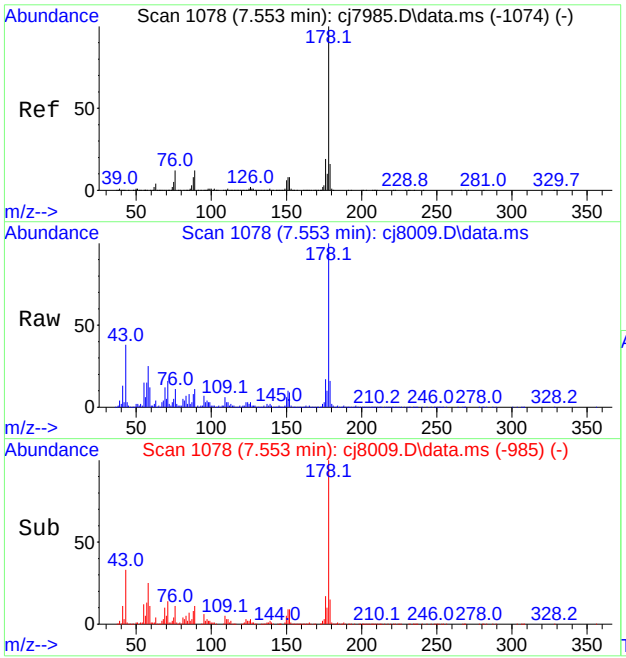


#78
Phenanthrene
Concen: 19.1832 ppm
RT: 7.510 min Scan# 1070
Delta R.T. 0.000 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:178 Resp: 654542

Ion	Ratio	Lower	Upper
178	100		
179	15.2	0.0	45.5
176	18.4	0.0	48.7

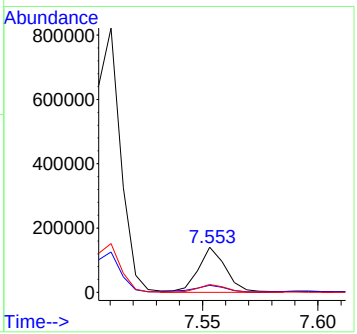


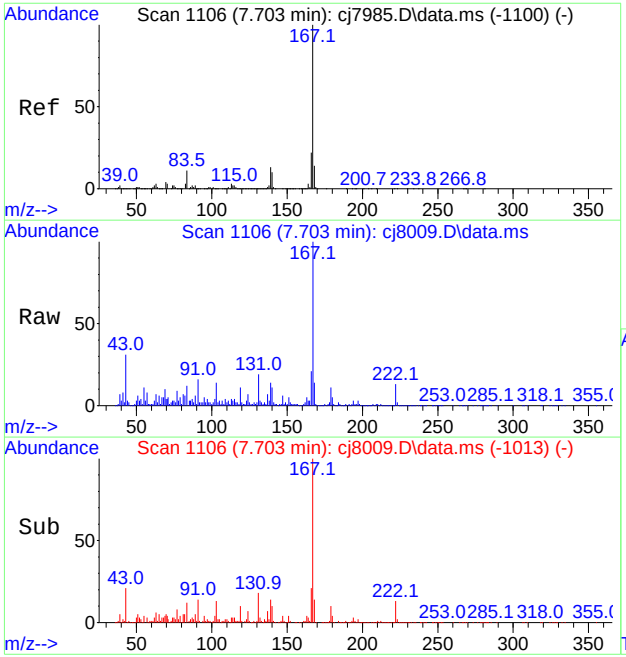


#79
Anthracene
Concen: 3.4387 ppm
RT: 7.553 min Scan# 1078
Delta R.T. 0.000 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:178 Resp: 117483

Ion	Ratio	Lower	Upper
178	100		
179	14.1	0.0	45.9
176	17.4	0.0	48.8

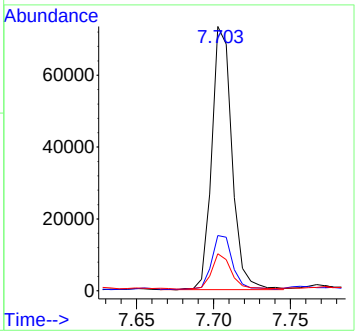


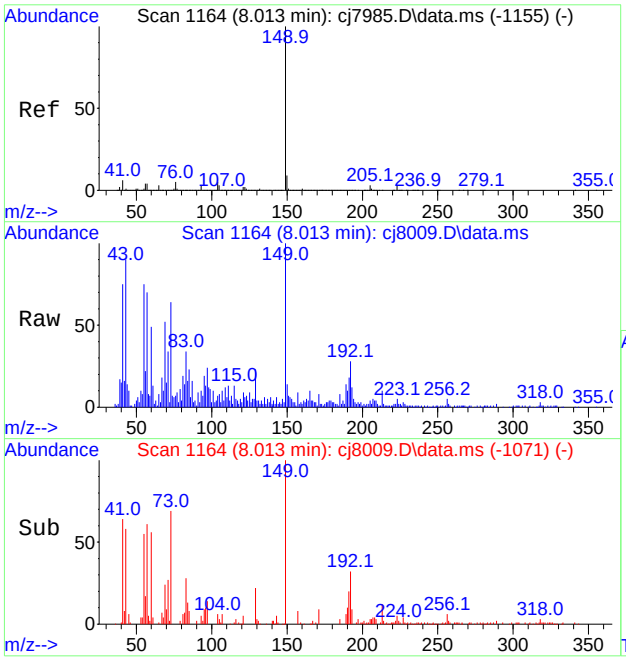


#80
Carbazole
Concen: 2.1049 ppm
RT: 7.703 min Scan# 1106
Delta R.T. 0.000 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:167 Resp: 67011

Ion	Ratio	Lower	Upper
167	100		
166	20.2	0.0	51.7
139	13.1	0.0	42.8

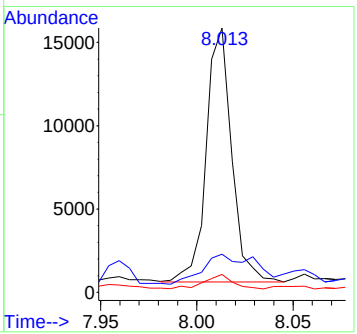


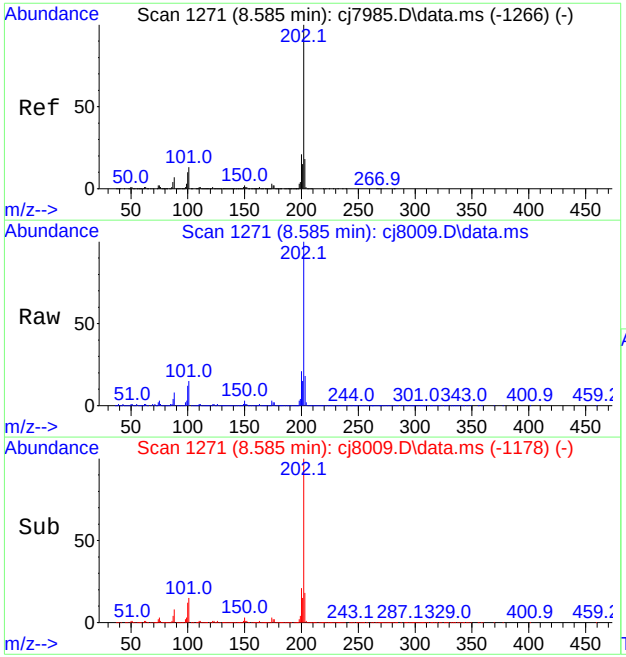


#81
Di-n-butylphthalate
Concen: 0.3560 ppm
RT: 8.013 min Scan# 1164
Delta R.T. 0.000 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:149 Resp: 14002

Ion	Ratio	Lower	Upper
149	100		
150	9.7	0.0	39.2
104	5.0	0.0	34.6

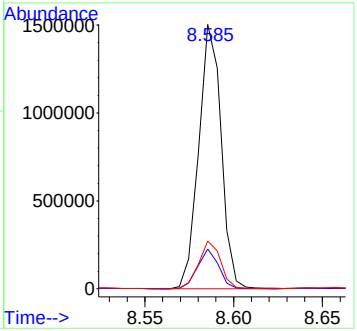


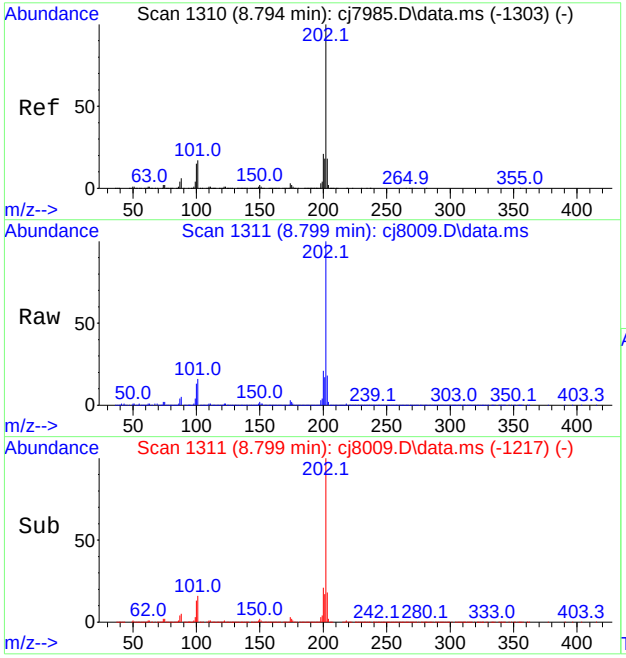


#82
Fluoranthene
Concen: 35.5977 ppm
RT: 8.585 min Scan# 1271
Delta R.T. 0.000 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:202 Resp: 1314959

Ion	Ratio	Lower	Upper
202	100		
101	15.0	0.0	42.9
203	18.0	0.0	47.5

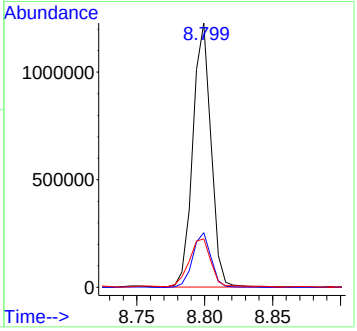


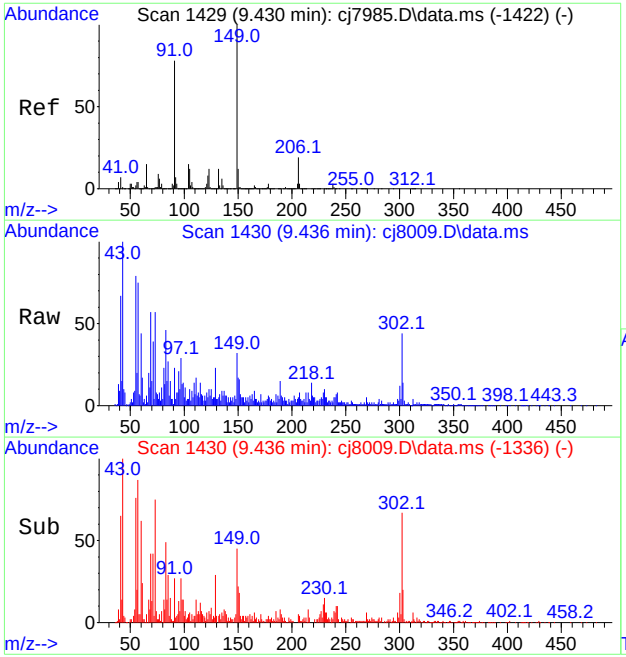


#86
Pyrene
Concen: 30.2357 ppm
RT: 8.799 min Scan# 1311
Delta R.T. 0.005 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:202 Resp: 1137307

Ion	Ratio	Lower	Upper
202	100		
200	20.6	0.0	51.0
203	18.1	0.0	48.5

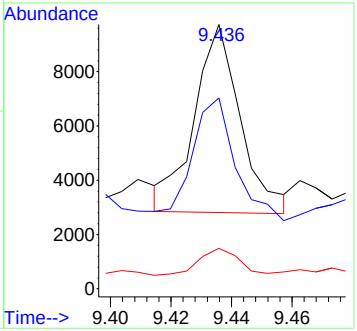


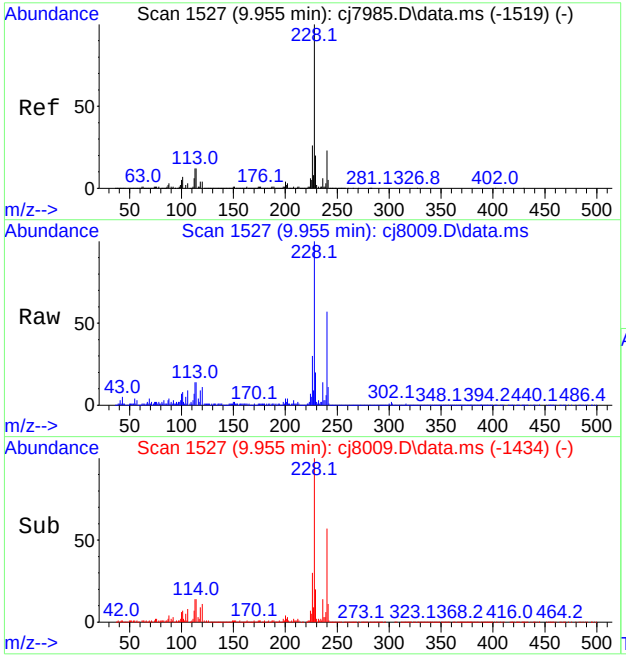


#88
Butylbenzylphthalate
Concen: 0.4375 ppm m
RT: 9.436 min Scan# 1430
Delta R.T. 0.005 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:149 Resp: 7342

Ion	Ratio	Lower	Upper
149	100		
91	72.2	47.5	107.5
206	15.2	0.0	49.2

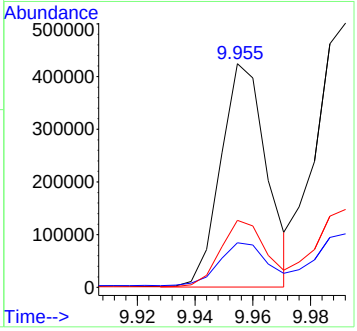


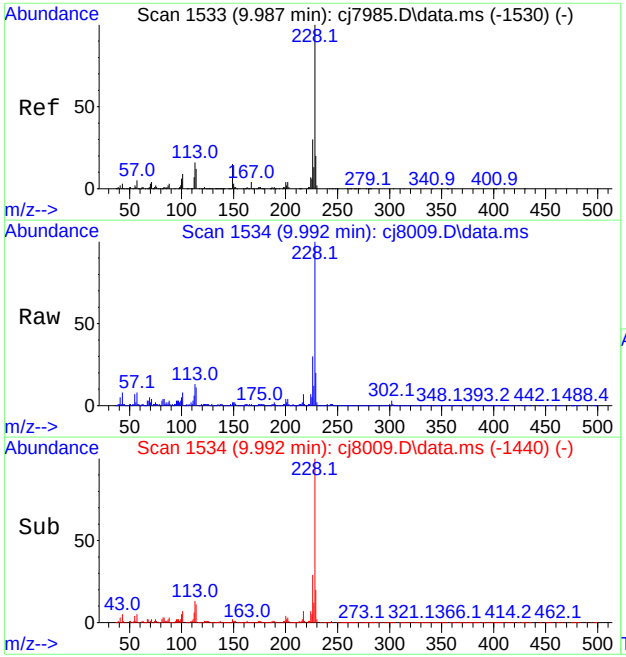


#89
Benzo[a]anthracene
Concen: 13.1976 ppm
RT: 9.955 min Scan# 1527
Delta R.T. 0.000 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:228 Resp: 469334

Ion	Ratio	Lower	Upper
228	100		
229	18.8	0.0	49.9
226	29.8	0.0	56.5

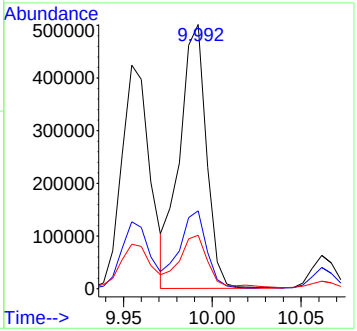


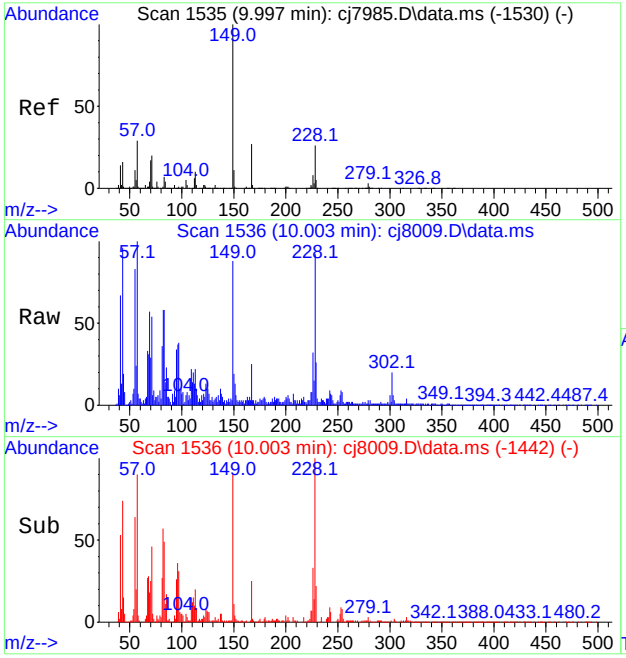


#91
Chrysene
Concen: 16.1605 ppm
RT: 9.992 min Scan# 1534
Delta R.T. 0.005 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:228 Resp: 530232

Ion	Ratio	Lower	Upper
228	100		
226	29.2	0.3	60.3
229	19.4	0.0	50.3

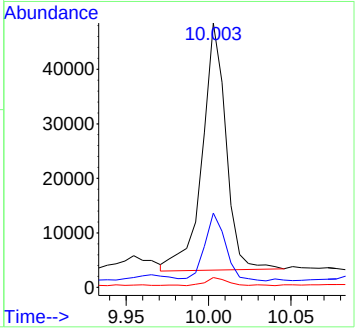


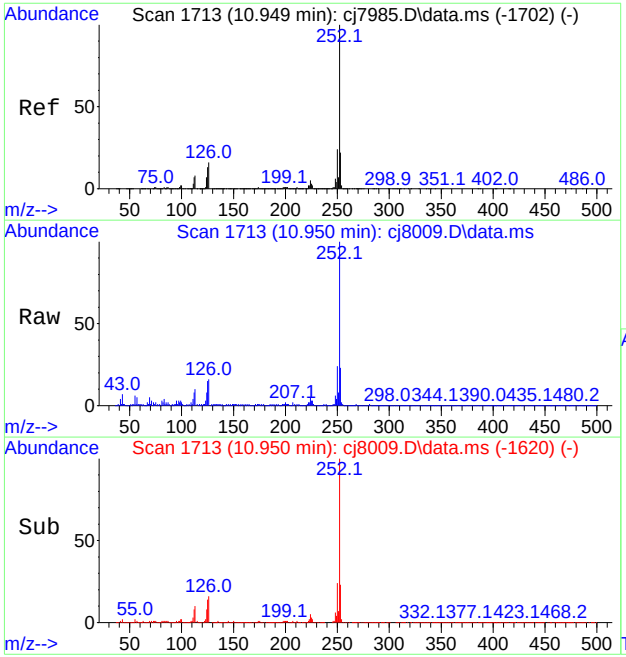


#92
bis(2-Ethylhexyl)phthalate
Concen: 1.8247 ppm
RT: 10.003 min Scan# 1536
Delta R.T. 0.005 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:149 Resp: 45356

Ion	Ratio	Lower	Upper
149	100		
167	26.7	0.0	56.9
279	3.1	0.0	33.4

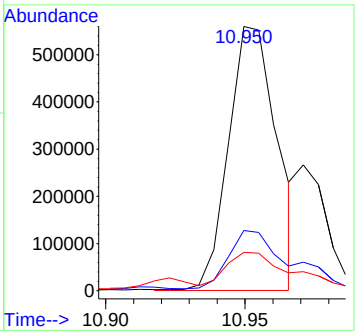


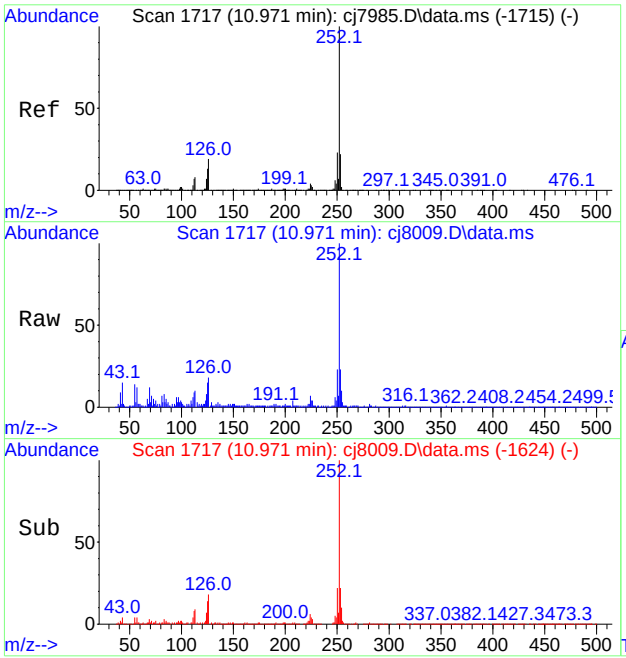


#95
Benzo[b]fluoranthene
Concen: 19.2830 ppm m
RT: 10.950 min Scan# 1713
Delta R.T. 0.000 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:252 Resp: 677245

Ion	Ratio	Lower	Upper
252	100		
253	22.8	0.0	52.5
125	14.5	0.0	42.4

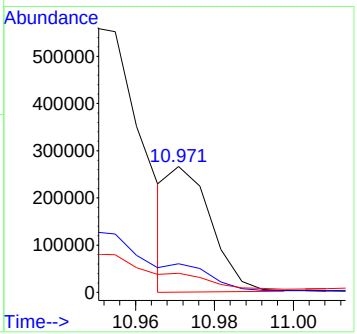


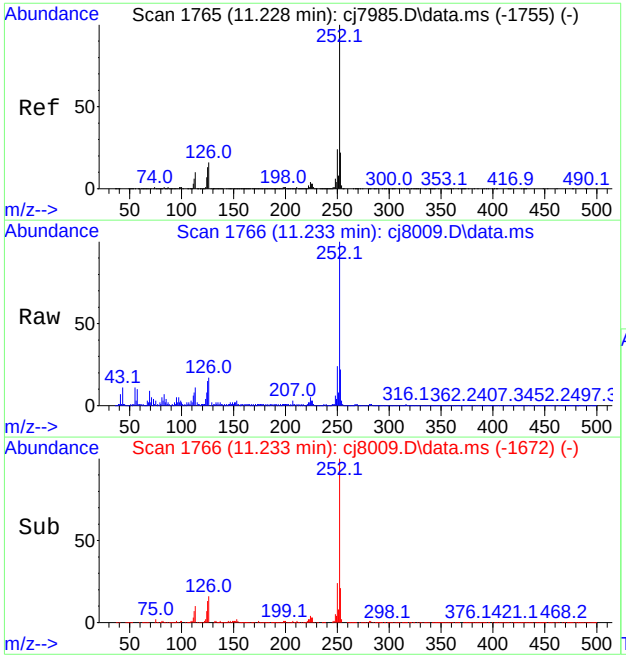


#96
Benzo[k]fluoranthene
Concen: 6.1686 ppm m
RT: 10.971 min Scan# 1717
Delta R.T. 0.000 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:252 Resp: 194947

Ion	Ratio	Lower	Upper
252	100		
253	22.7	0.0	51.7
125	15.2	0.0	43.5

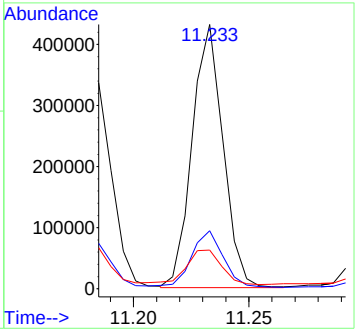


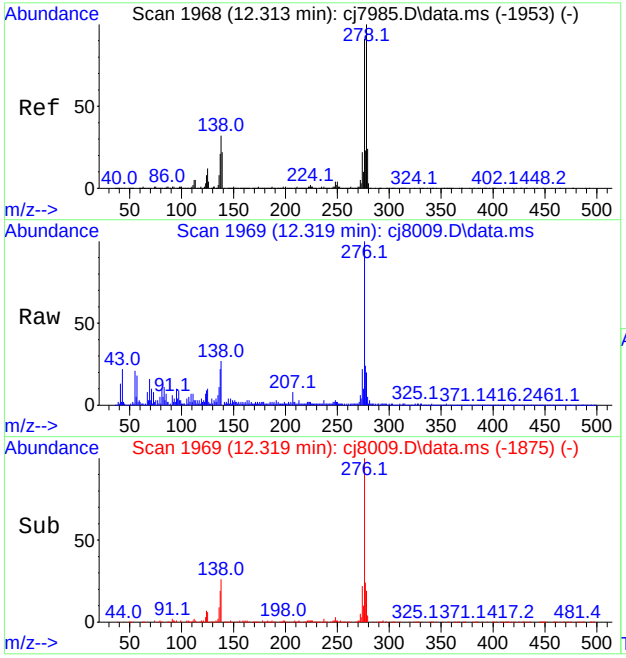


#97
Benzo[a]pyrene
Concen: 13.8423 ppm
RT: 11.233 min Scan# 1766
Delta R.T. 0.005 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:252 Resp: 402455

Ion	Ratio	Lower	Upper
252	100		
253	21.2	0.0	52.1
125	12.6	0.0	42.5

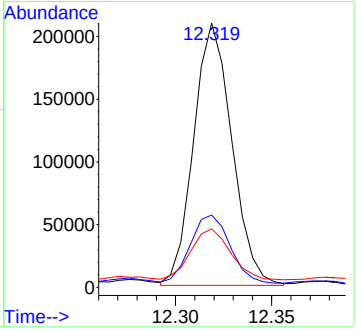


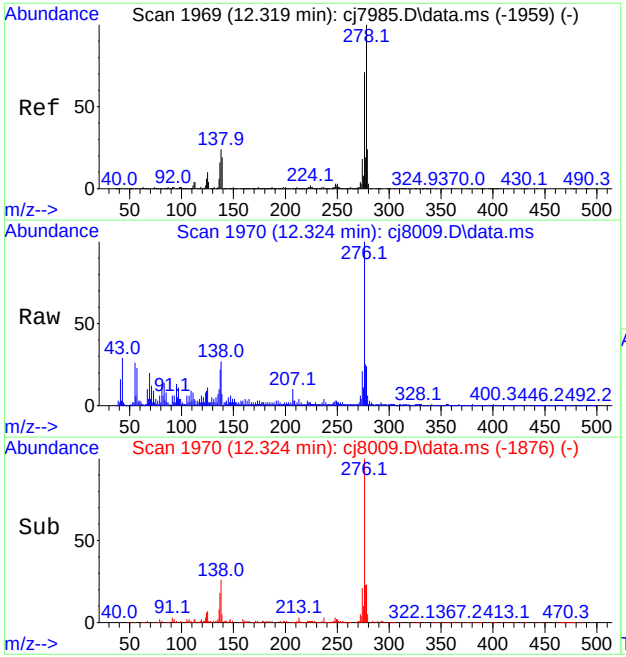


#98
Indeno[1,2,3-cd]pyrene
Concen: 8.2342 ppm
RT: 12.319 min Scan# 1969
Delta R.T. 0.005 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:276 Resp: 289417

Ion	Ratio	Lower	Upper
276	100		
138	26.0	5.2	65.2
137	19.5	0.0	53.3

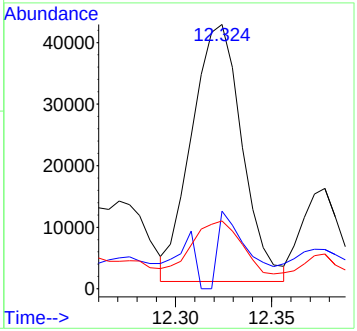


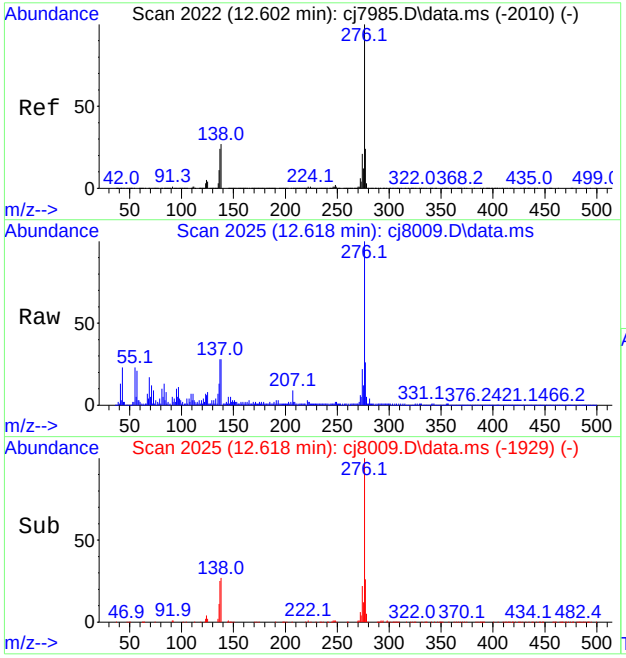


#100
Dibenz[a,h]anthracene
Concen: 2.7229 ppm
RT: 12.324 min Scan# 1970
Delta R.T. 0.005 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:278 Resp: 76471

Ion	Ratio	Lower	Upper
278	100		
139	22.1	0.0	48.9
279	21.0	0.0	53.7

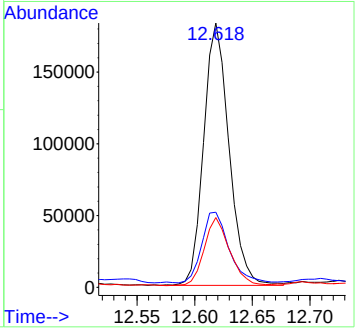


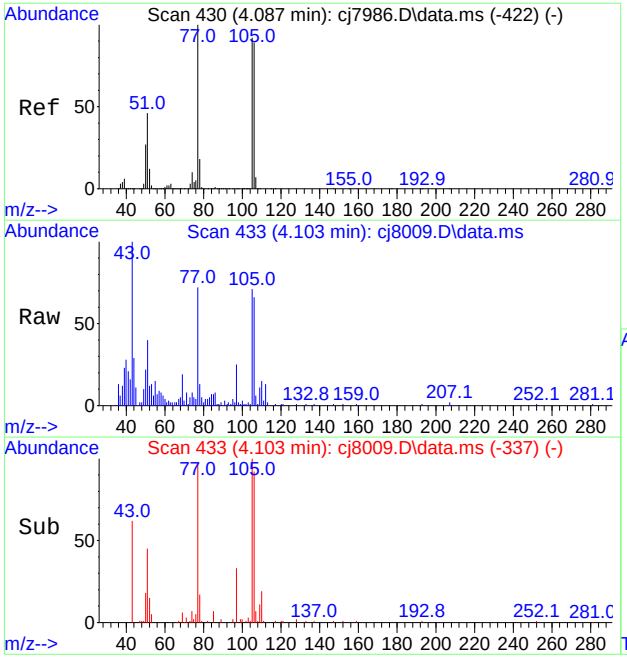


#102
Benzo[g,h,i]perylene
Concen: 10.2407 ppm
RT: 12.618 min Scan# 2025
Delta R.T. 0.016 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:276 Resp: 279715

Ion	Ratio	Lower	Upper
276	100		
138	26.7	0.0	57.0
277	25.8	0.0	53.6

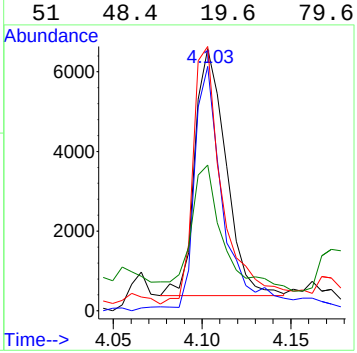




#104
Benzaldehyde
Concen: 0.7024 ppm
RT: 4.103 min Scan# 433
Delta R.T. 0.016 min
Lab File: cj8009.D
Acq: 01 Jul 2024 07:38 pm

Tgt Ion:105 Resp: 7512

Ion	Ratio	Lower	Upper
105	100		
106	96.1	66.2	126.2
77	102.0	78.1	138.1
51	48.4	19.6	79.6



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj8009.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.173	442	446	451	rBV2	743236	860143	7.62%	0.492%
2	4.360	478	481	492	rVB	2855045	2233603	19.79%	1.279%
3	4.536	508	514	527	rBV	680610	839525	7.44%	0.481%
4	4.718	541	548	554	rBV	1074993	797501	7.07%	0.457%
5	4.777	554	559	566	rVB3	223798	314487	2.79%	0.180%
6	5.162	616	631	643	rBV	4510422	3217616	28.51%	1.842%
7	5.622	712	717	724	rBV2	285941	310805	2.75%	0.178%
8	5.841	749	758	764	rVB	2318171	1583357	14.03%	0.907%
9	5.948	775	778	785	rVB	303891	255472	2.26%	0.146%
10	6.307	841	845	857	rVB	4652468	3546815	31.43%	2.031%
11	6.911	953	958	962	rBV2	753598	668639	5.93%	0.383%
12	7.168	1001	1006	1014	rBV4	123950	226212	2.00%	0.130%
13	7.227	1014	1017	1024	rBV2	348435	448576	3.98%	0.257%
14	7.291	1024	1029	1034	rVB	483191	440934	3.91%	0.252%
15	7.489	1060	1066	1073	rBV2	4310343	5270413	46.70%	3.017%
16	7.553	1076	1078	1082	rVB	614382	489509	4.34%	0.280%
17	7.708	1101	1107	1112	rBV2	382261	498226	4.42%	0.285%
18	7.960	1151	1154	1157	rVB	316968	266852	2.36%	0.153%
19	7.997	1157	1161	1165	rBV2	1170288	1019628	9.04%	0.584%
20	8.029	1165	1167	1170	rVB	388892	267430	2.37%	0.153%
21	8.238	1203	1206	1210	rVB	368310	335806	2.98%	0.192%
22	8.494	1247	1254	1256	rBV2	189554	241558	2.14%	0.138%
23	8.585	1267	1271	1278	rBV	3660612	3229653	28.62%	1.849%
24	8.655	1278	1284	1286	rBV4	243388	365573	3.24%	0.209%
25	8.676	1286	1288	1294	rVB2	285283	324814	2.88%	0.186%
26	8.735	1294	1299	1306	rBV3	396213	504001	4.47%	0.289%
27	8.799	1306	1311	1318	rBV	2861073	3038731	26.93%	1.740%
28	8.869	1318	1324	1327	rBV2	196813	259160	2.30%	0.148%
29	8.954	1336	1340	1347	rVB	1793397	1709990	15.15%	0.979%
30	9.120	1363	1371	1375	rVB2	379287	551463	4.89%	0.316%
31	9.184	1375	1383	1385	rBV2	322151	306451	2.72%	0.175%
32	9.217	1385	1389	1398	rBV4	778919	1069090	9.47%	0.612%
33	9.329	1403	1410	1418	rBV5	227852	437830	3.88%	0.251%
34	9.393	1418	1422	1425	rBV	425637	451539	4.00%	0.259%
35	9.623	1457	1465	1470	rBV2	182584	270943	2.40%	0.155%
36	9.671	1470	1474	1478	rVB	734614	594773	5.27%	0.341%
37	9.719	1478	1483	1485	rBV	216580	307856	2.73%	0.176%
38	9.767	1489	1492	1500	rVB3	220816	377512	3.35%	0.216%
39	9.885	1510	1514	1524	rBV	2085971	2869015	25.42%	1.643%
40	9.965	1524	1529	1532	rBV2	4024486	4738169	41.99%	2.713%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.992	1532	1534	1544	rVB	1621378	1729208	15.32%	0.990%
42	10.062	1544	1547	1550	rBV	272867	290114	2.57%	0.166%
43	10.104	1550	1555	1565	rVB2	979331	1157374	10.26%	0.663%
44	10.206	1570	1574	1580	rVB4	278585	486038	4.31%	0.278%
45	10.318	1587	1595	1598	rBV	885766	805637	7.14%	0.461%
46	10.415	1609	1613	1616	rBV2	302053	345605	3.06%	0.198%
47	10.522	1625	1633	1649	rVV	4443480	7267963	64.41%	4.161%
48	10.623	1649	1652	1655	rVV	396232	362648	3.21%	0.208%
49	10.720	1659	1670	1676	rVV2	1153223	1555880	13.79%	0.891%
50	10.800	1680	1685	1687	rVV	514592	675551	5.99%	0.387%
51	10.827	1687	1690	1693	rVV2	609319	815986	7.23%	0.467%
52	10.848	1693	1694	1698	rVV	404788	463071	4.10%	0.265%
53	10.923	1702	1708	1711	rVV	4084525	3934214	34.86%	2.252%
54	10.950	1711	1713	1722	rVV	1622821	2873802	25.47%	1.645%
55	11.014	1722	1725	1727	rVV	377774	484252	4.29%	0.277%
56	11.040	1727	1730	1733	rVV	461635	659636	5.85%	0.378%
57	11.089	1733	1739	1741	rVV	5901103	6116824	54.21%	3.502%
58	11.115	1741	1744	1753	rVV2	4911515	7968166	70.61%	4.562%
59	11.185	1753	1757	1759	rVV	1258695	1617907	14.34%	0.926%
60	11.206	1759	1761	1763	rVV	936857	972485	8.62%	0.557%
61	11.233	1763	1766	1769	rVV	1441000	1681816	14.90%	0.963%
62	11.281	1769	1775	1786	rVV	3642829	5771370	51.14%	3.304%
63	11.367	1786	1791	1797	rVV2	1051289	2046604	18.14%	1.172%
64	11.415	1797	1800	1802	rVV2	655305	911728	8.08%	0.522%
65	11.436	1802	1804	1811	rVV3	700860	1575939	13.97%	0.902%
66	11.511	1811	1818	1828	rVV	4447238	6506054	57.65%	3.725%
67	11.586	1828	1832	1838	rVV3	509176	1360495	12.06%	0.779%
68	11.629	1838	1840	1844	rVV4	396628	690151	6.12%	0.395%
69	11.688	1844	1851	1855	rVV	8851109	11284539	100.00%	6.461%
70	11.730	1855	1859	1863	rVV2	2217821	3890392	34.48%	2.227%
71	11.763	1863	1865	1876	rVV	1613703	3020580	26.77%	1.729%
72	11.843	1876	1880	1891	rVV2	1257112	2376601	21.06%	1.361%
73	11.928	1891	1896	1900	rVV4	454696	975920	8.65%	0.559%
74	11.960	1900	1902	1909	rVV3	335402	783973	6.95%	0.449%
75	12.025	1910	1914	1920	rVV	671770	1313218	11.64%	0.752%
76	12.121	1920	1932	1939	rVV4	548673	2188140	19.39%	1.253%
77	12.223	1939	1951	1964	rVV	3501344	6103800	54.09%	3.495%
78	12.319	1964	1969	1976	rVV2	838806	1841715	16.32%	1.054%
79	12.378	1976	1980	1983	rVV4	437763	785408	6.96%	0.450%
80	12.426	1983	1989	1997	rVV	2893782	5388358	47.75%	3.085%
81	12.506	1997	2004	2007	rVV2	1158105	2349222	20.82%	1.345%
82	12.543	2007	2011	2021	rVV	1950681	3516469	31.16%	2.013%
83	12.618	2021	2025	2028	rVV	563019	944123	8.37%	0.541%
84	12.645	2028	2030	2036	rVV	491883	744023	6.59%	0.426%
85	12.704	2036	2041	2049	rVV2	1297096	2824876	25.03%	1.617%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.789	2049	2057	2070	rVV8	387122	1303664	11.55%	0.746%
87	12.891	2070	2076	2082	rVV8	143016	385723	3.42%	0.221%
88	12.939	2082	2085	2090	rVV4	181606	277532	2.46%	0.159%
89	13.019	2090	2100	2112	rVB5	519312	1391841	12.33%	0.797%
90	13.153	2112	2125	2132	rBV2	2039874	3985795	35.32%	2.282%
91	13.351	2153	2162	2168	rVV	908176	1779341	15.77%	1.019%
92	13.410	2168	2173	2189	rVB7	171267	568948	5.04%	0.326%
93	13.581	2190	2205	2222	rBV	1181604	3734614	33.09%	2.138%
94	13.731	2222	2233	2242	rVB9	111845	399025	3.54%	0.228%
95	13.977	2269	2279	2288	rVV5	382610	1019737	9.04%	0.584%
96	14.121	2299	2306	2315	rVV2	196306	587092	5.20%	0.336%
97	14.244	2315	2329	2336	rVV7	258178	939953	8.33%	0.538%
98	14.319	2337	2343	2348	rVV5	154467	446382	3.96%	0.256%
99	14.351	2348	2349	2356	rVV7	143124	303823	2.69%	0.174%
100	14.426	2356	2363	2371	rVB5	190120	540847	4.79%	0.310%

Sum of corrected areas: 174661862

LSC Report - Integrated Chromatogram

```
Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On    : 01 Jul 2024  07:38 pm
Operator  : karimam
Sample    : jd91204-10
Misc      : op55759,ecj348,30.6,,,1,1
ALS Vial  : 25   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title  : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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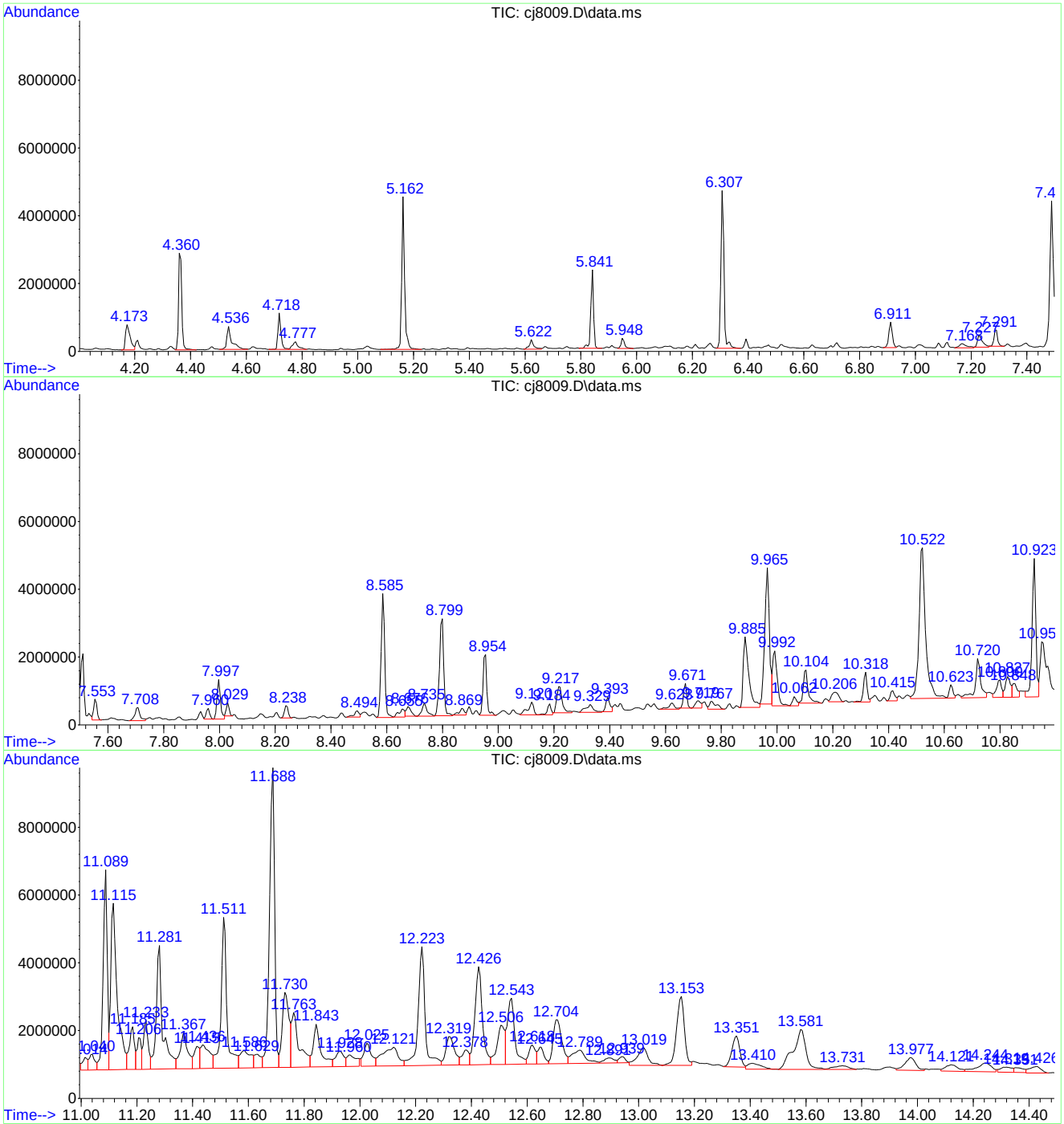


Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

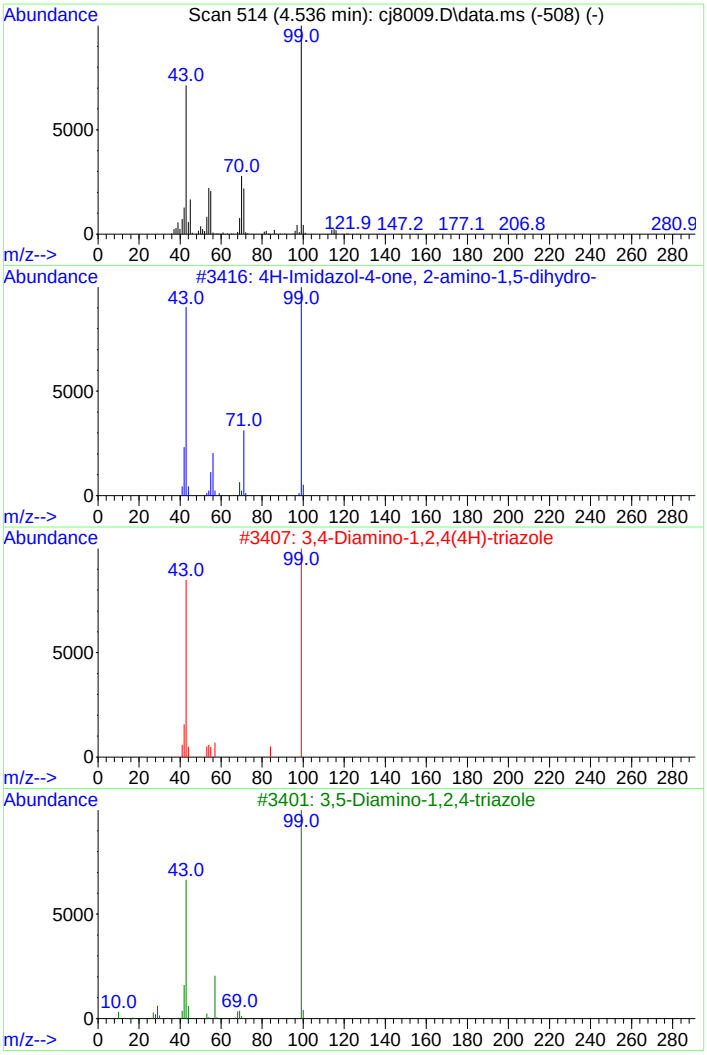
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

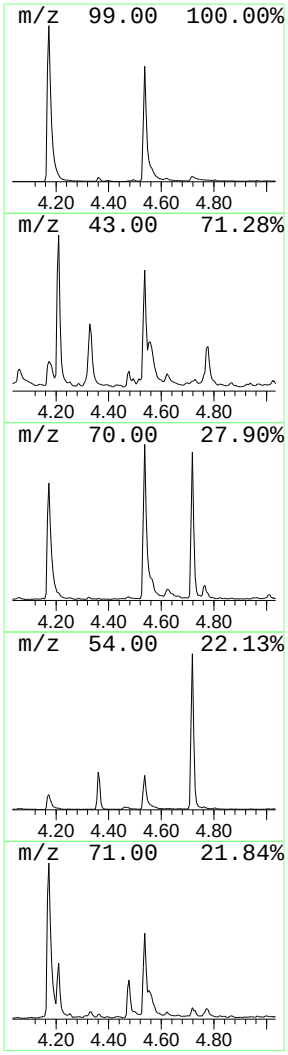
****

Peak Number 1 Unknown Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.536	15.03 ppm	839525	1,4-Dichlorobenzene-d4a	4.365

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Imidazol-4-one, 2-amino-1,5-d...	99	C3H5N3O	000503-86-6	50
2	3,4-Diamino-1,2,4(4H)-triazole	99	C2H5N5	038104-45-9	43
3	3,5-Diamino-1,2,4-triazole	99	C2H5N5	001455-77-2	37
4	2,5-Pyrrolidinedione	99	C4H5NO2	000123-56-8	37
5	.beta.-Acetylacrylic acid	114	C5H6O3	004743-82-2	36





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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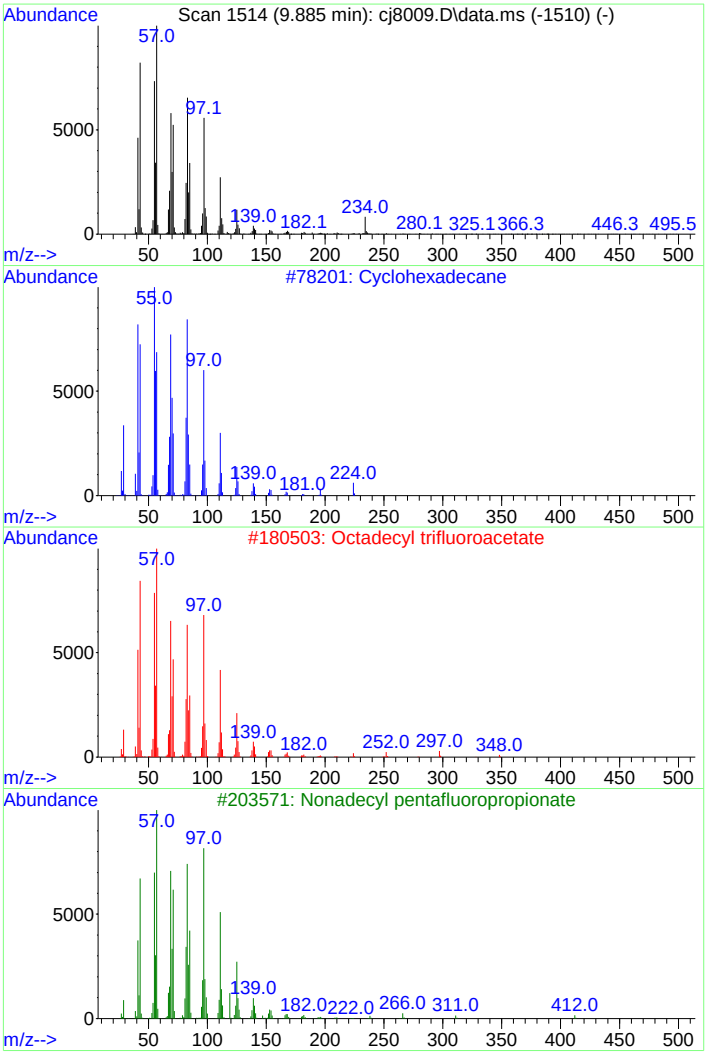
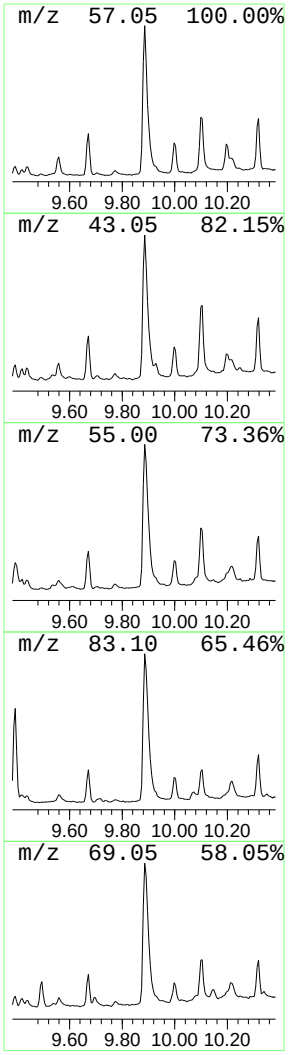
Peak Number 2 Unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.885	24.22 ppm	2869020	Chrysene-d12	9.965

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexadecane	224	C16H32	000295-65-8	94
2	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91
3	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	91
4	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	1000351-82-9	91
5	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	91





Library Search Compound Report

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Acq On : 01 Jul 2024 07:38 pm
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Sample : jd91204-10
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ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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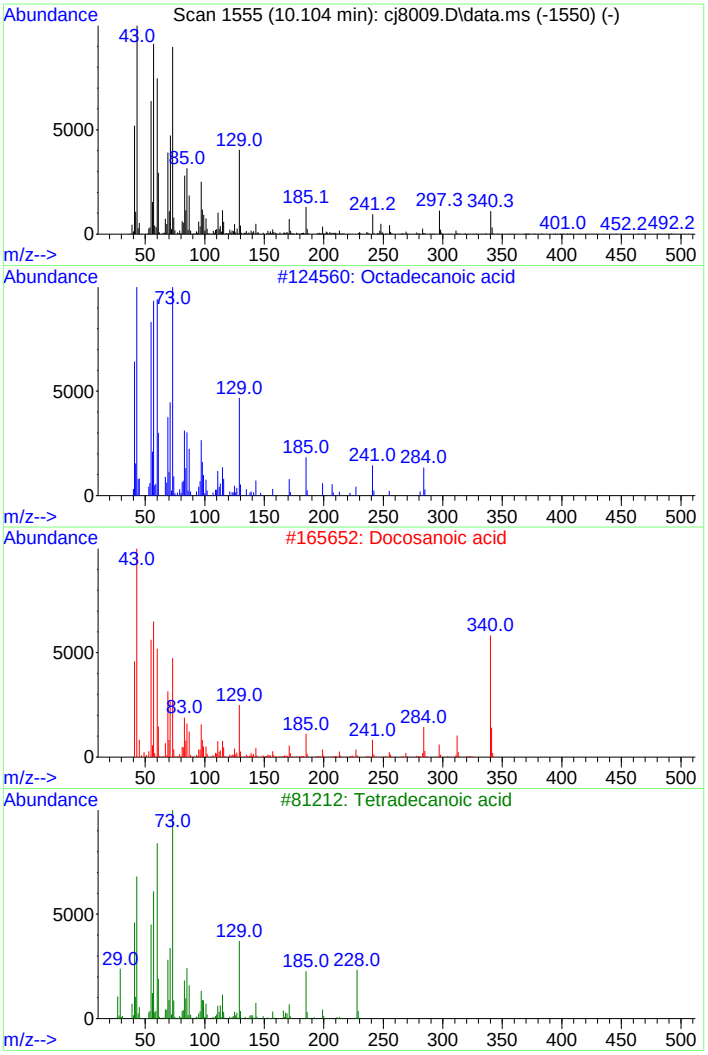
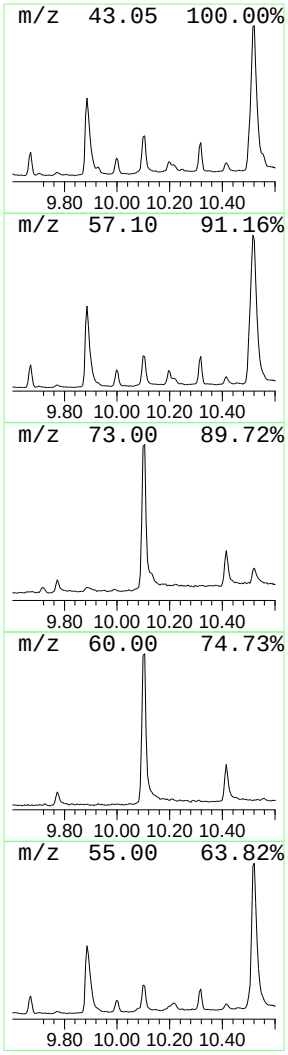
Peak Number 3 Unknown acid Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.104	9.77 ppm	1157370	Chrysene-d12a	9.965

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	81
2	Docosanoic acid	340	C22H44O2	000112-85-6	80
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	59
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	58
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	58





Library Search Compound Report

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Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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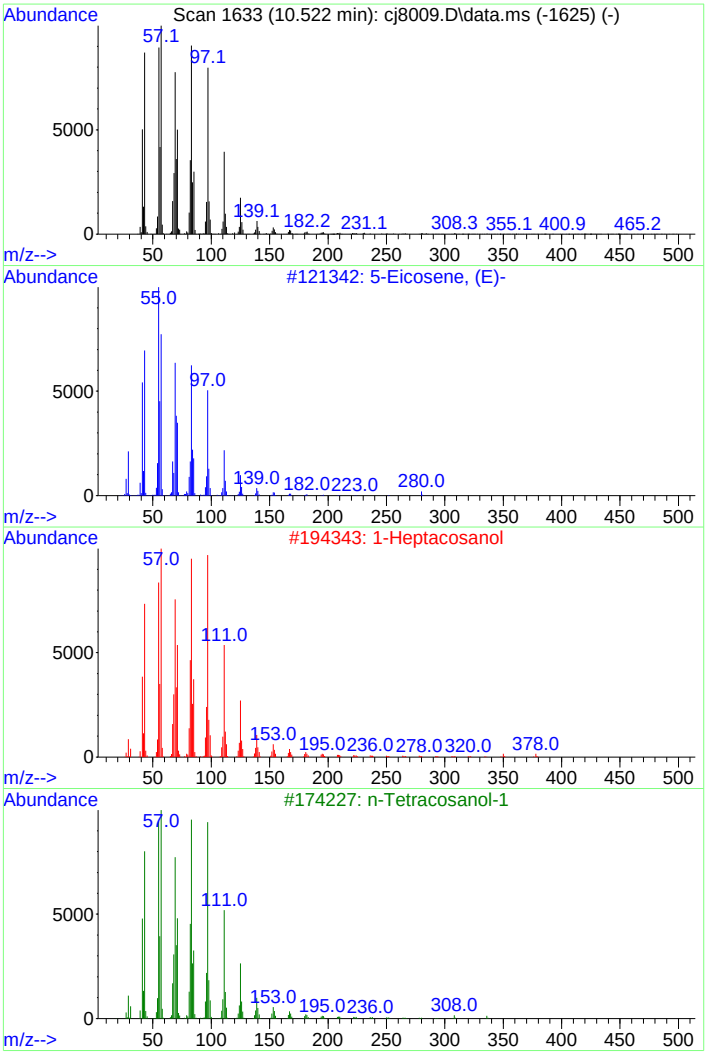
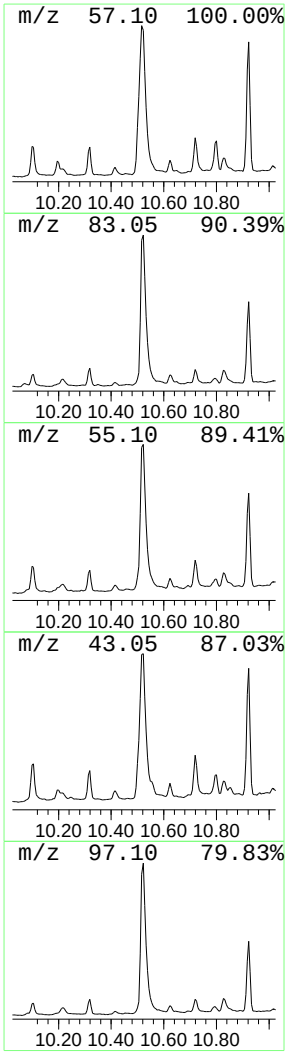
Peak Number 4 Unknown alcohol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.522	61.36 ppm	7267960	Chrysene-d12a	9.965

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Eicosene, (E)-	280	C20H40	074685-30-6	98
2	1-Heptacosanol	396	C27H56O	002004-39-9	94
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
4	1-Heneicosanol	312	C21H44O	015594-90-8	94
5	Behenic alcohol	326	C22H46O	000661-19-8	94





Library Search Compound Report

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Acq On : 01 Jul 2024 07:38 pm
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Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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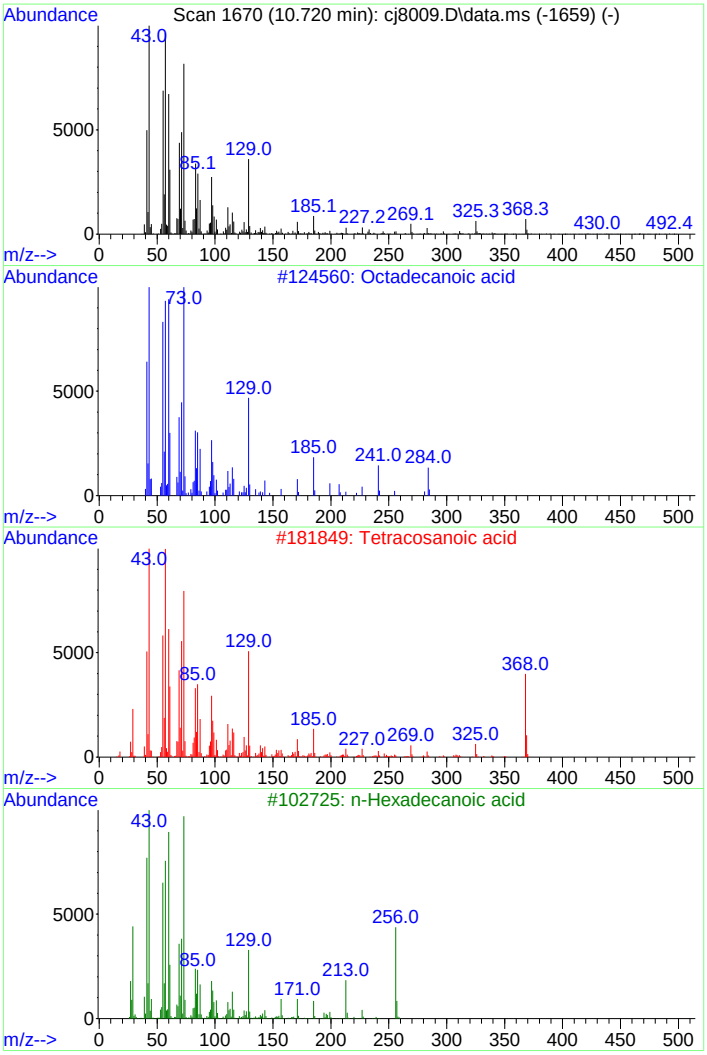
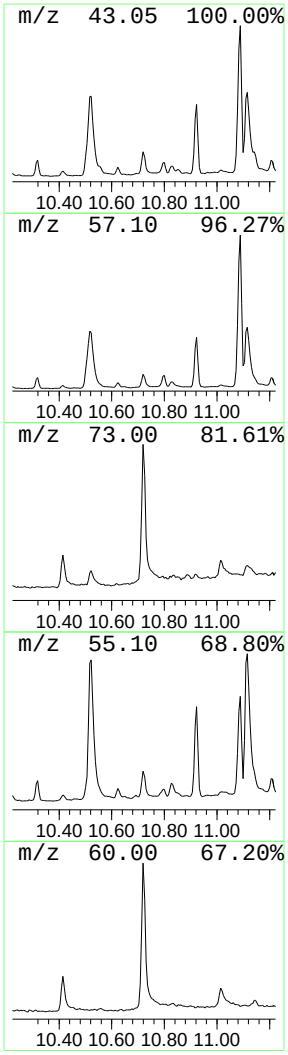
Peak Number 5 Unknown acid Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.720	10.78 ppm	1555880	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	83
2	Tetracosanoic acid	368	C24H48O2	000557-59-5	76
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	55
4	n-Decanoic acid	172	C10H20O2	000334-48-5	46
5	Tetradecane, 1-chloro-	232	C14H29Cl	002425-54-9	38





Library Search Compound Report

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Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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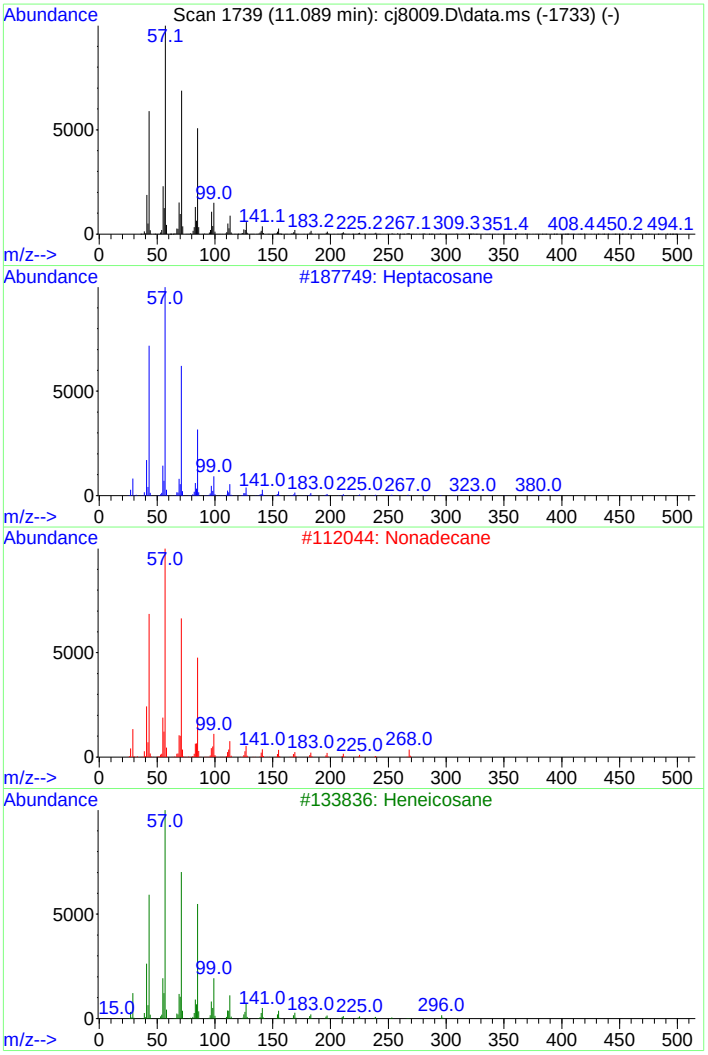
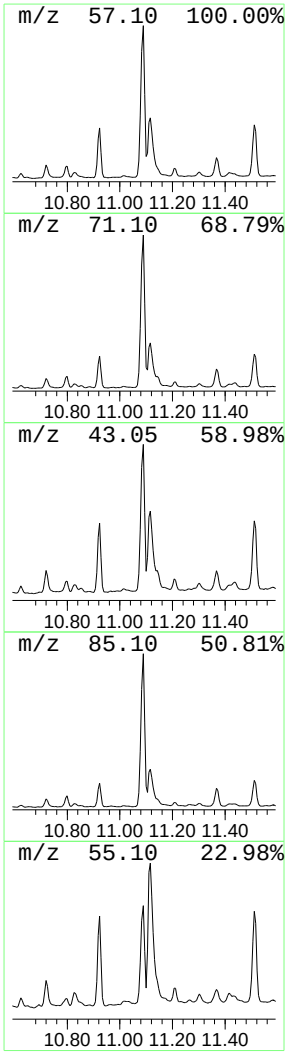
Peak Number 6 Alkane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.089	42.39 ppm	6116820	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	97
2	Nonadecane	268	C19H40	000629-92-5	94
3	Heneicosane	296	C21H44	000629-94-7	91
4	Heptacosane	380	C27H56	000593-49-7	90
5	Triacontane	422	C30H62	000638-68-6	90





Library Search Compound Report

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Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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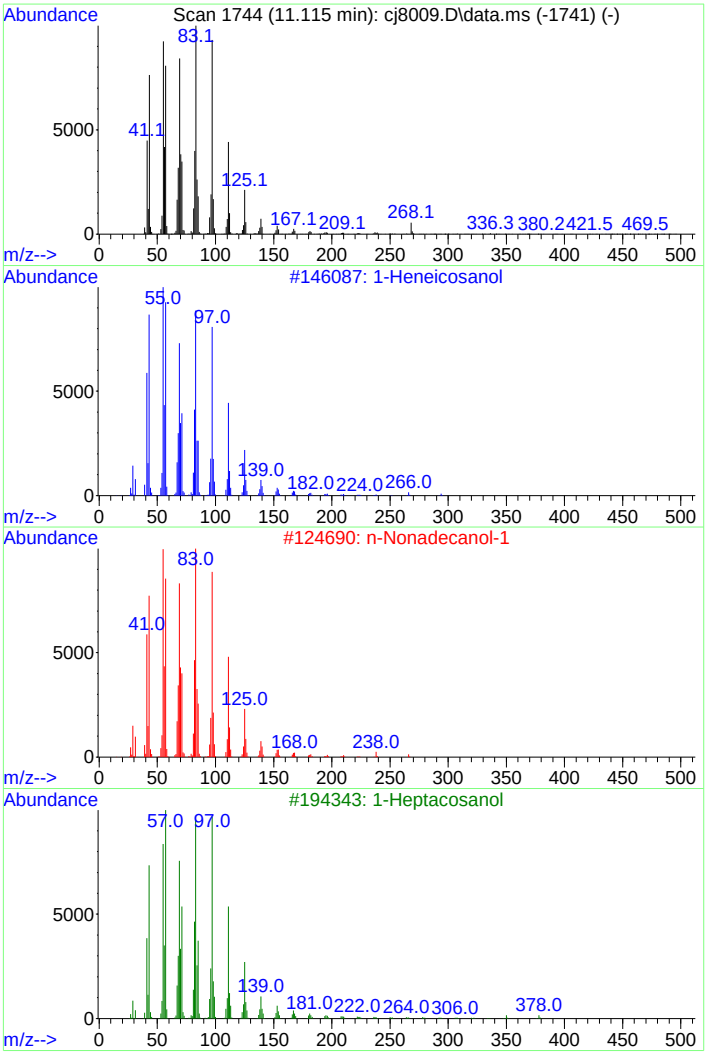
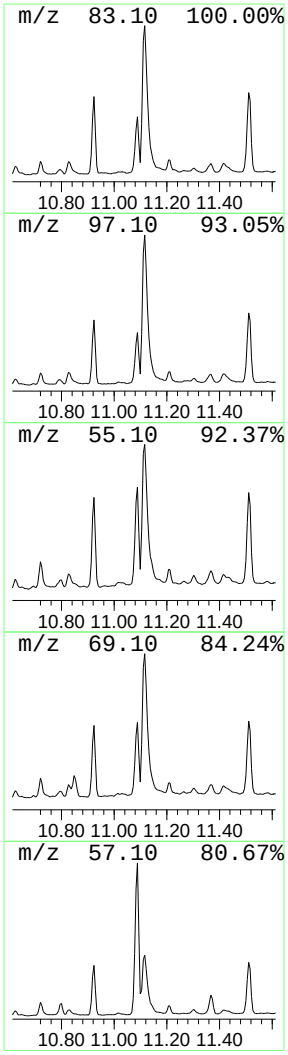
Peak Number 7 Unknown alcohol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.115	55.23 ppm	7968170	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	94
2	n-Nonadecanol-1	284	C19H40O	001454-84-8	91
3	1-Heptacosanol	396	C27H56O	002004-39-9	91
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	91
5	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	91





Library Search Compound Report

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Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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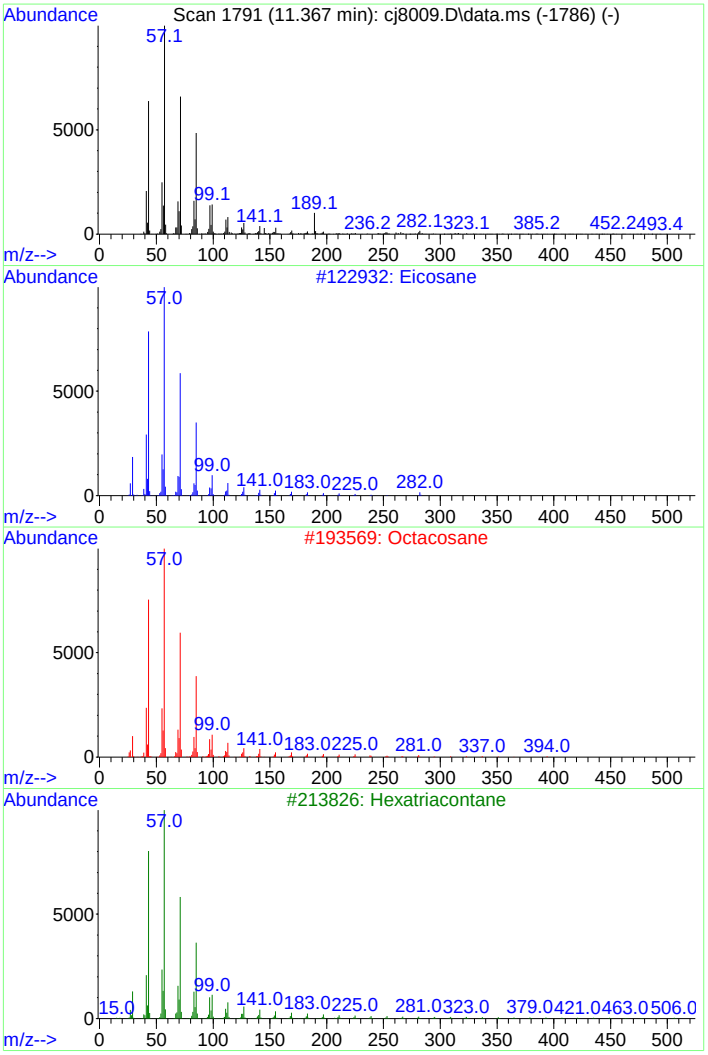
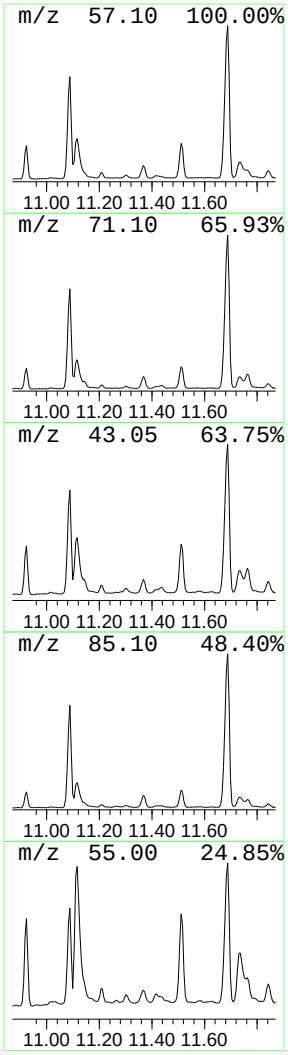
Peak Number 8 Alkane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.367	14.18 ppm	2046600	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	97
2	Octacosane	394	C28H58	000630-02-4	87
3	Hexatriacontane	507	C36H74	000630-06-8	87
4	Heneicosane	296	C21H44	000629-94-7	83
5	Pentadecane	212	C15H32	000629-62-9	83





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Acq On : 01 Jul 2024 07:38 pm
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Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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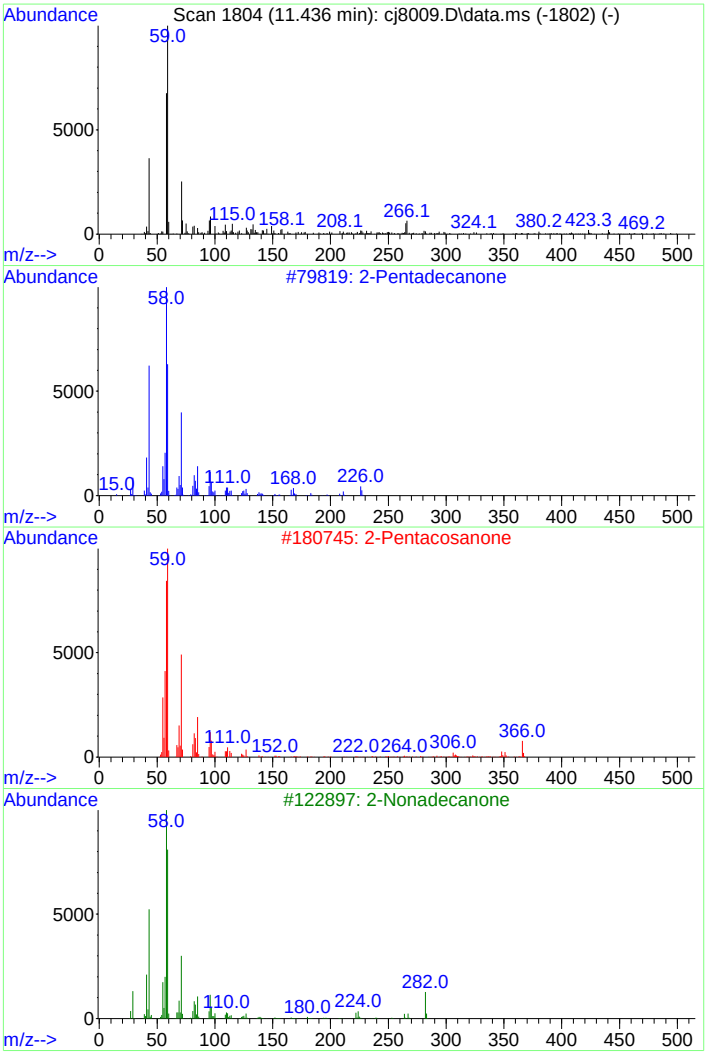
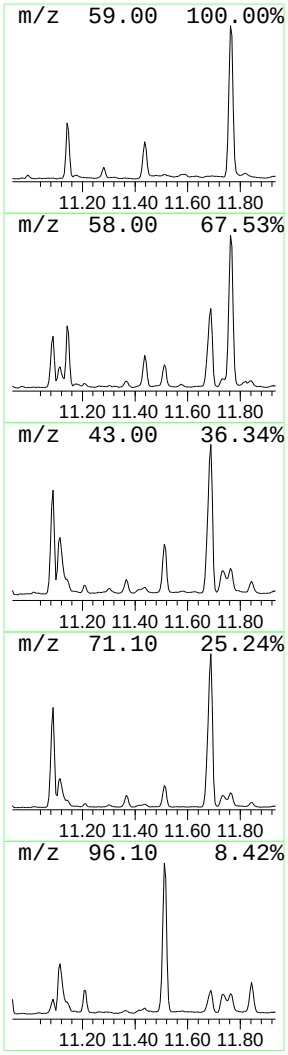
Peak Number 9 Unknown alcohol Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.436	10.92 ppm	1575940	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentadecanone	226	C15H30O	002345-28-0	47
2	2-Pentacosanone	366	C25H50O	075207-54-4	42
3	2-Nonadecanone	282	C19H38O	000629-66-3	38
4	2-Heptadecanone	254	C17H34O	002922-51-2	38
5	3-(2-Hydroxy-2-methyl-propyl)-cy...	168	C10H16O2	1000185-60-2	32





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Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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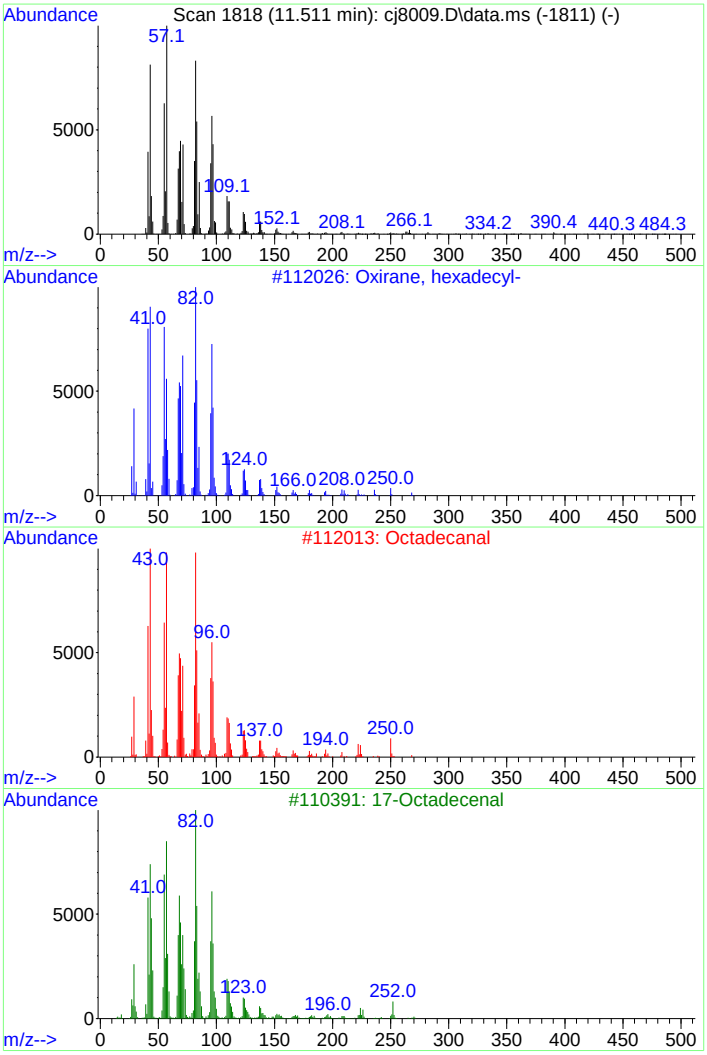
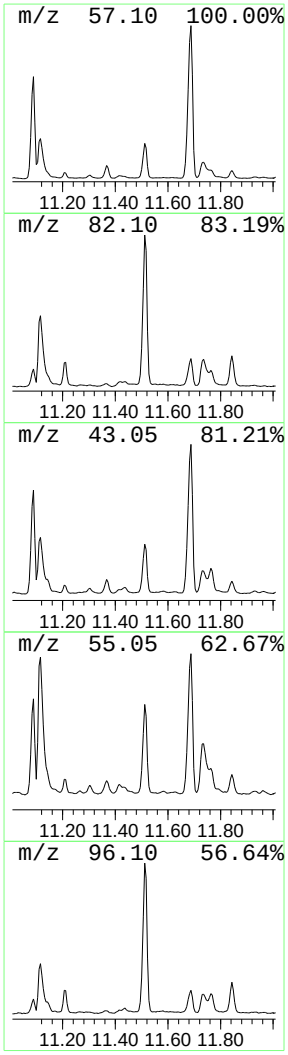
Peak Number 10 Unknown alcohol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.511	45.09 ppm	6506050	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
2	Octadecanal	268	C18H36O	000638-66-4	90
3	17-Octadecenal	266	C18H34O	056554-86-0	90
4	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	86
5	13-Octadecenal	266	C18H34O	056554-90-6	83





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Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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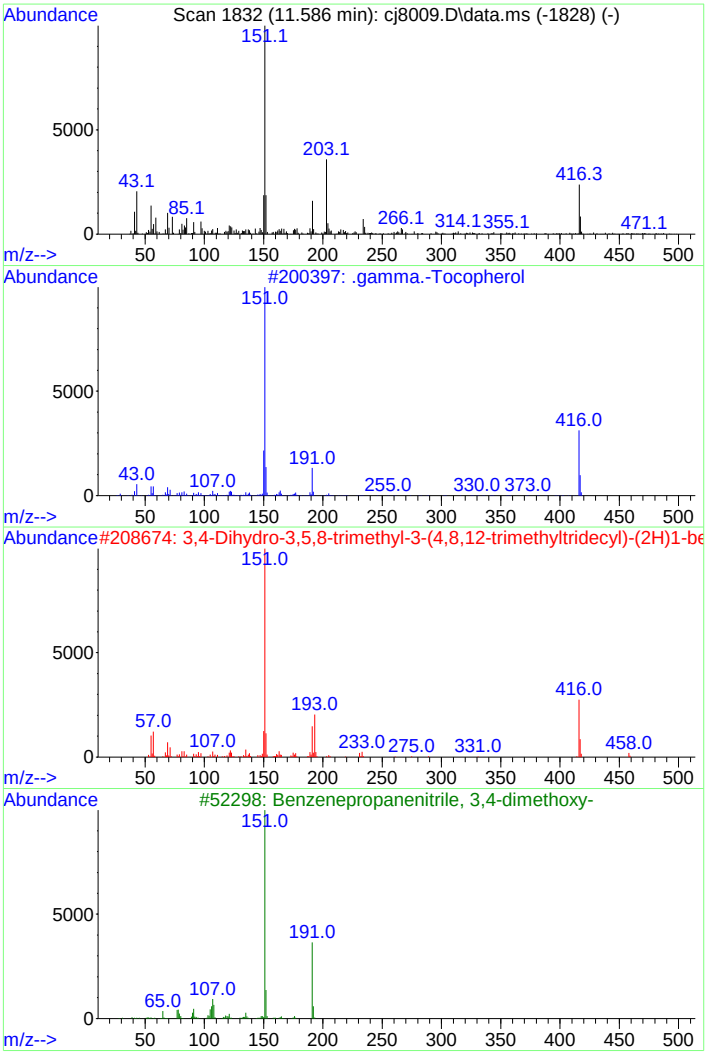
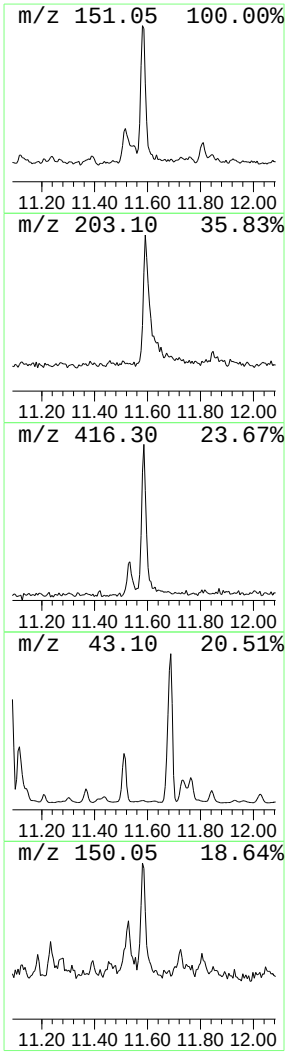
Peak Number 11 .gamma.-Tocopherol Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.586	9.43 ppm	1360500	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Tocopherol	416	C28H48O2	007616-22-0	89
2	3,4-Dihydro-3,5,8-trimethyl-3-(4...	458	C30H50O3	1000105-71-9	50
3	Benzenepropanenitrile, 3,4-dimet...	191	C11H13NO2	049621-56-9	49
4	.gamma.-Tocopherol	416	C28H48O2	007616-22-0	46
5	4-Amino-2,1,3-benzothiadiazole	151	C6H5N3S	000767-64-6	38





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Sample : jd91204-10
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ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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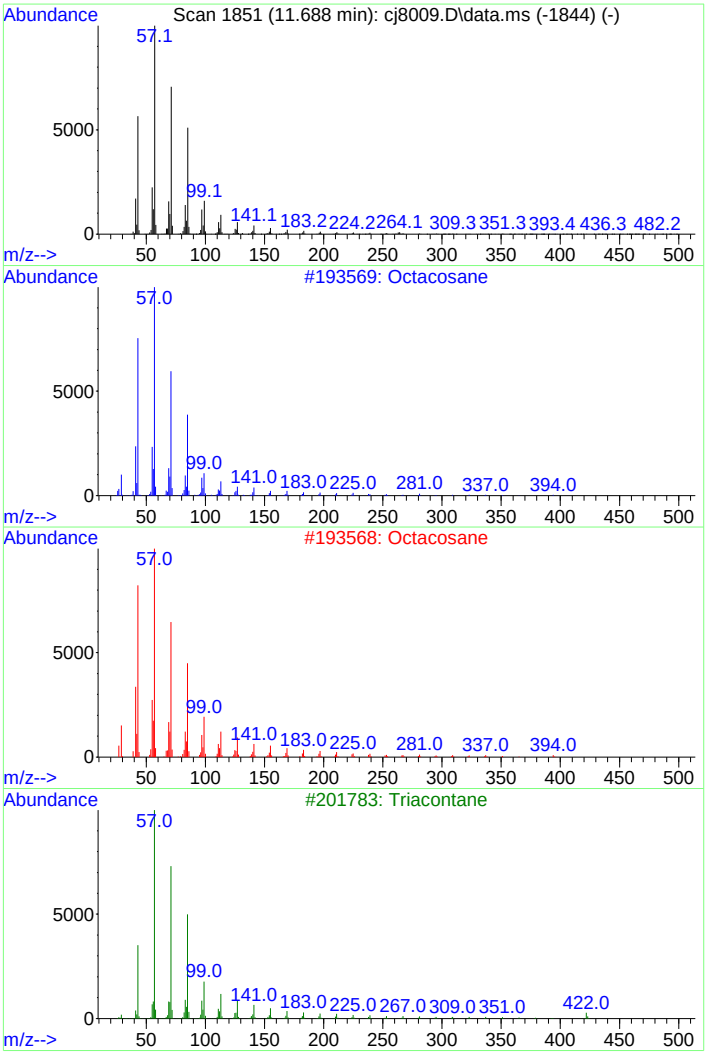
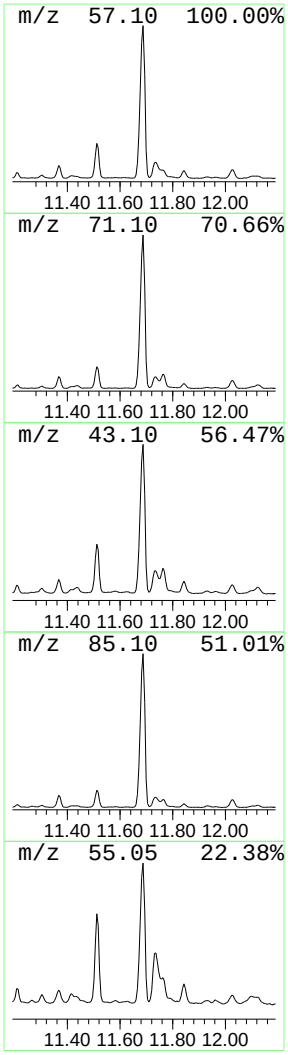
Peak Number 12 Alkane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.688	78.21 ppm	11284500	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	98
2	Octacosane	394	C28H58	000630-02-4	97
3	Triacontane	422	C30H62	000638-68-6	97
4	Hexadecane	226	C16H34	000544-76-3	94
5	Nonacosane	408	C29H60	000630-03-5	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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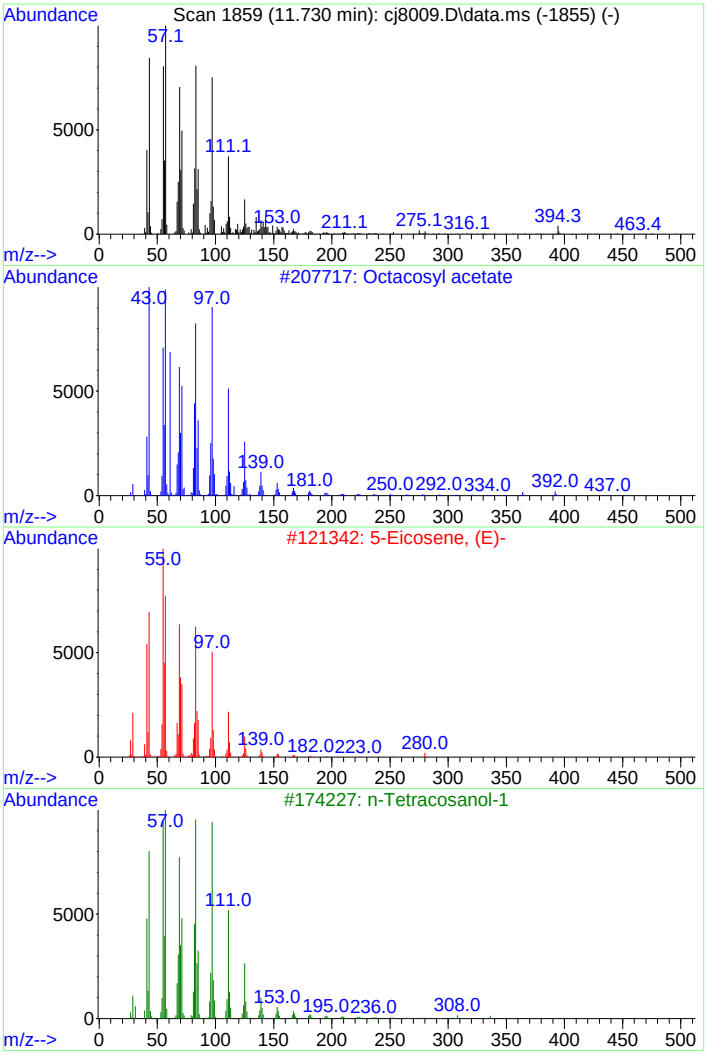
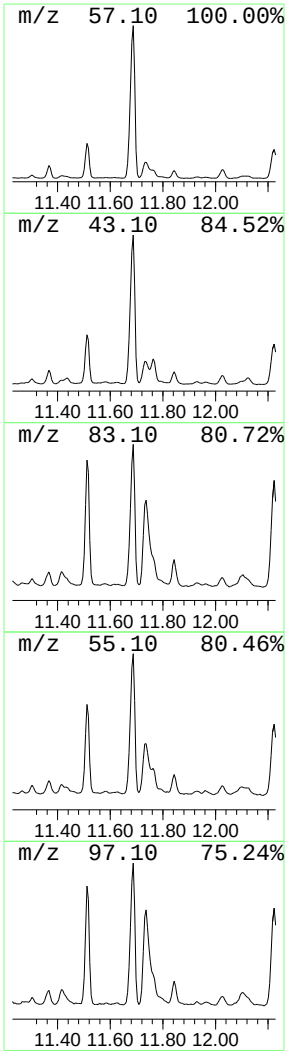
Peak Number 13 Unknown alcohol Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.730	26.96 ppm	3890390	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosyl acetate	452	C30H60O2	018206-97-8	97
2	5-Eicosene, (E)-	280	C20H40	074685-30-6	95
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
4	1-Heneicosanol	312	C21H44O	015594-90-8	93
5	1-Octacosanol	410	C28H58O	1000351-79-2	91





Library Search Compound Report

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Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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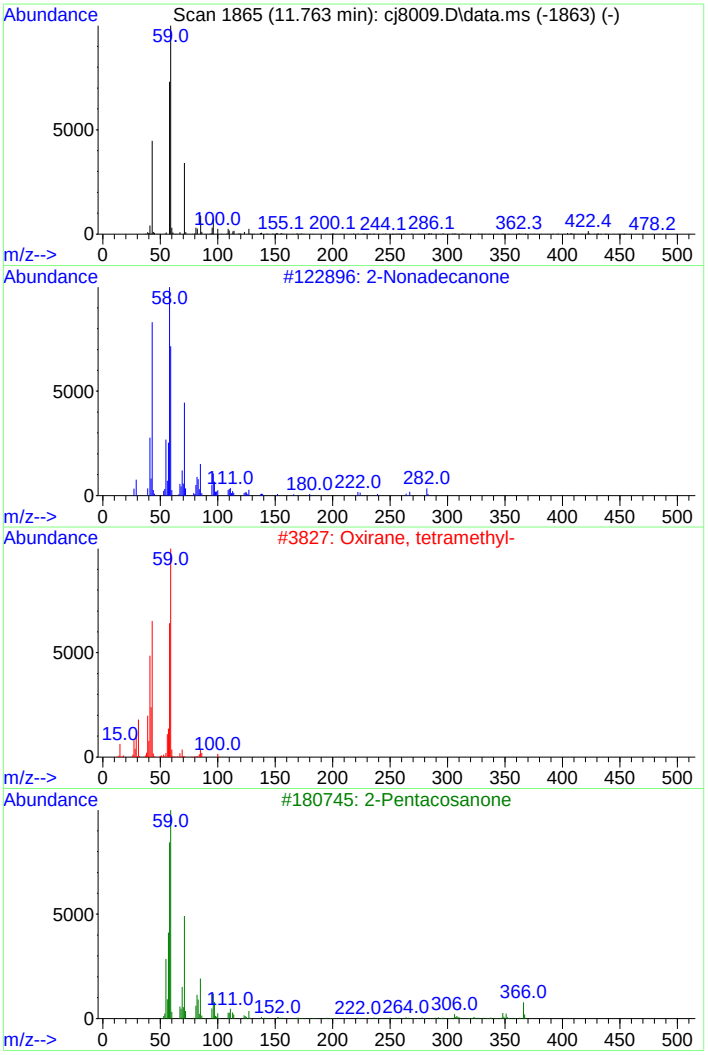
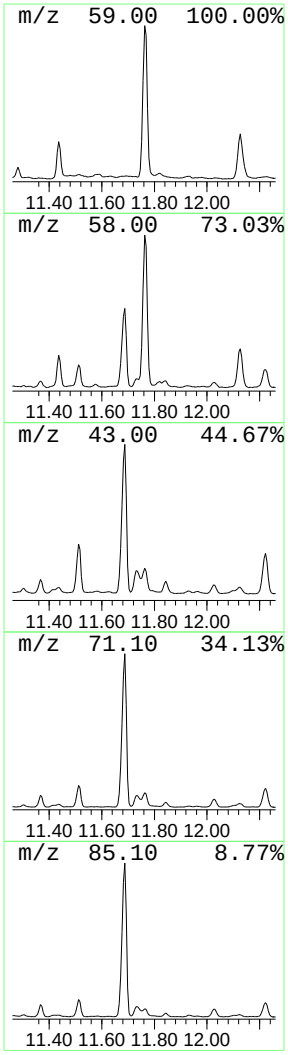
Peak Number 14 Unknown alcohol Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.762	20.93 ppm	3020580	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Nonadecanone	282	C19H38O	000629-66-3	50
2	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	45
3	2-Pentacosanone	366	C25H50O	075207-54-4	43
4	2-Tetradecanone	212	C14H28O	002345-27-9	43
5	Octanal, 7-hydroxy-3,7-dimethyl-	172	C10H20O2	000107-75-5	40





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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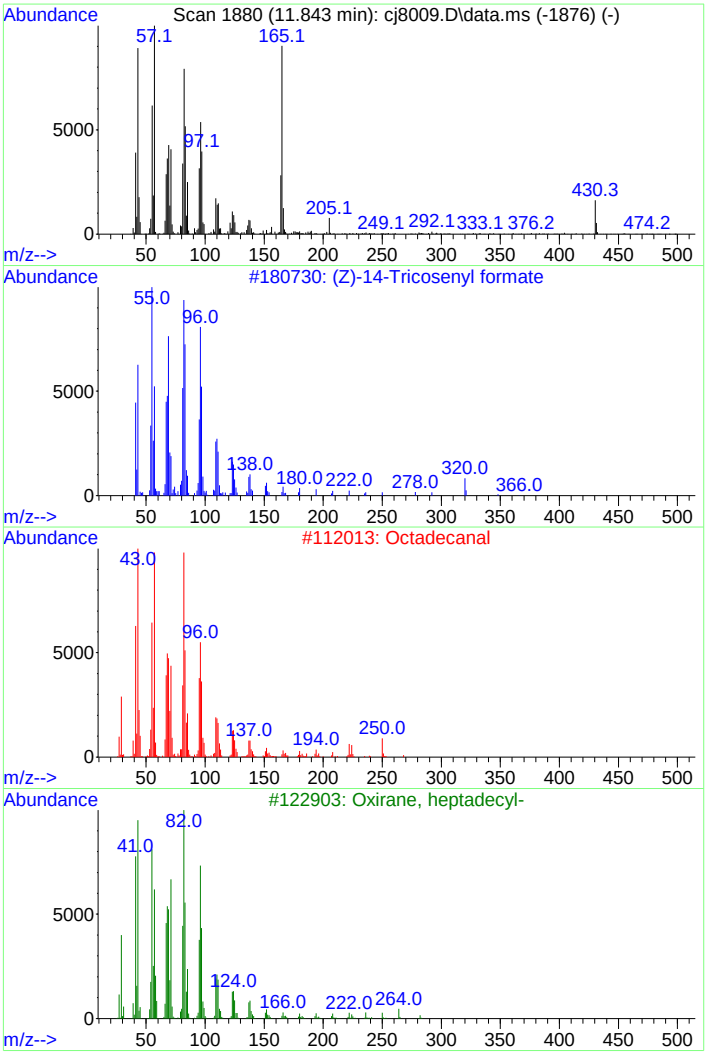
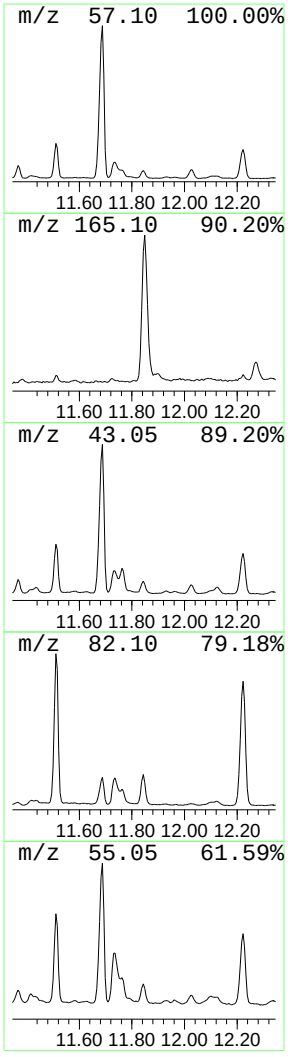
Peak Number 15 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.843	16.47 ppm	2376600	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	90
2	Octadecanal	268	C18H36O	000638-66-4	60
3	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	60
4	1,19-Eicosadiene	278	C20H38	014811-95-1	60
5	Vitamin E	430	C29H50O2	000059-02-9	55





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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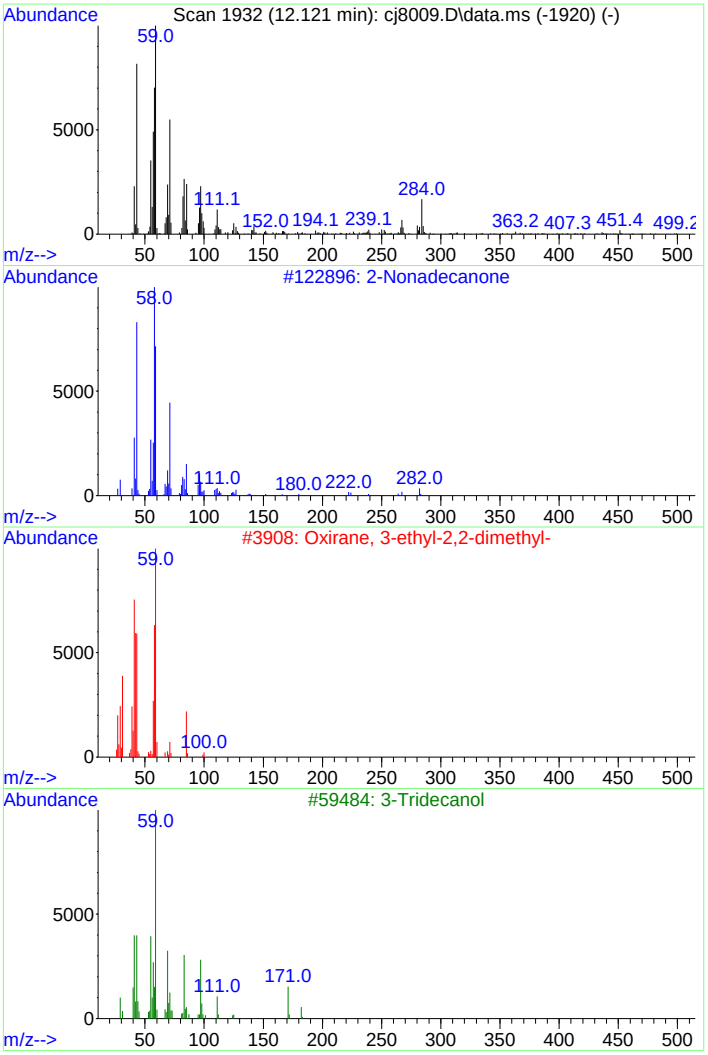
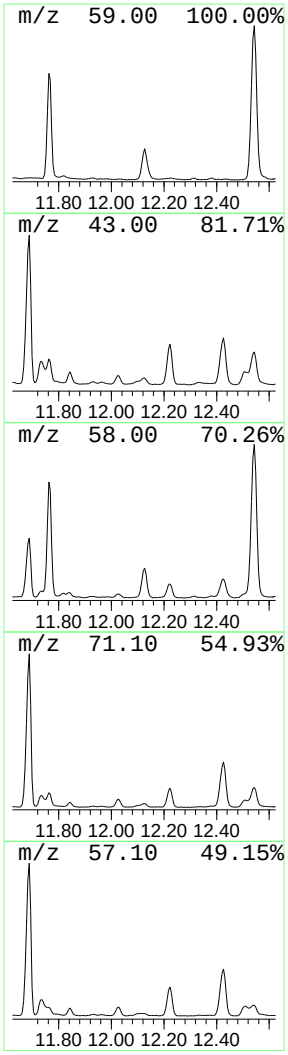
Peak Number 16 Unknown alcohol Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.121	15.17 ppm	2188140	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Nonadecanone	282	C19H38O	000629-66-3	49
2	Oxirane, 3-ethyl-2,2-dimethyl-	100	C6H12O	001192-22-9	47
3	3-Tridecanol	200	C13H28O	010289-68-6	43
4	2-Propanone, 1-cyclohexyl-	140	C9H16O	000103-78-6	38
5	Undecanol-3	172	C11H24O	006929-08-4	27





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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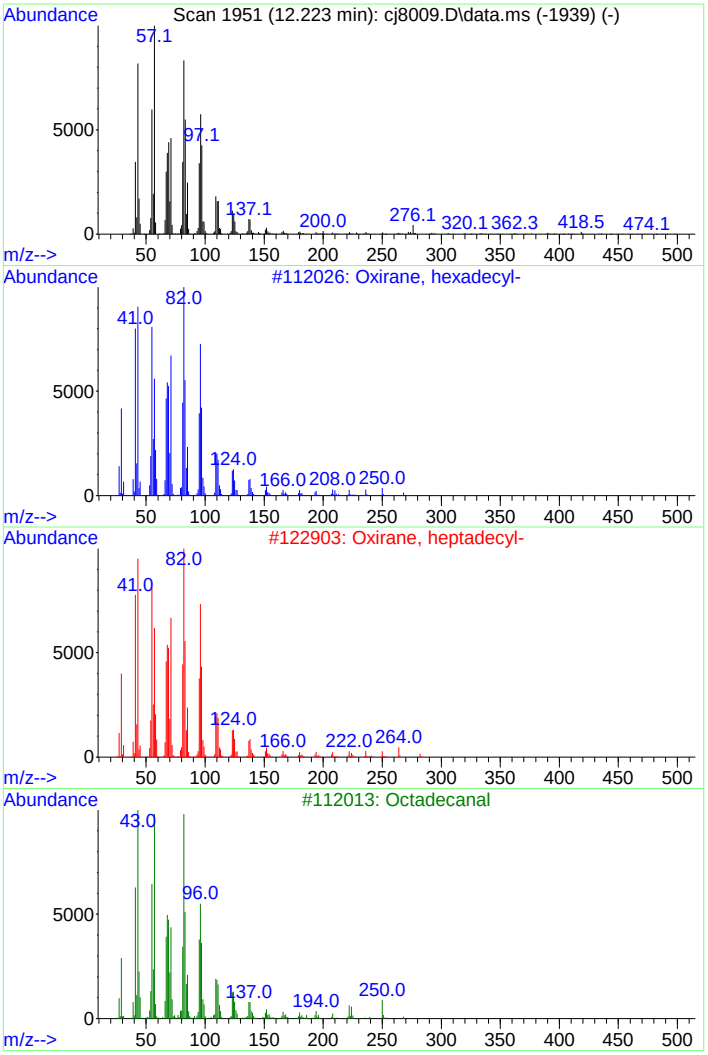
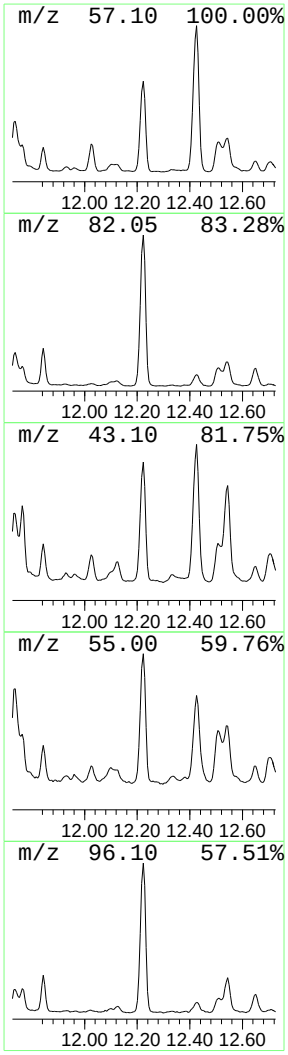
Peak Number 17 Unknown alcohol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.223	42.30 ppm	6103800	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
2	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	91
3	Octadecanal	268	C18H36O	000638-66-4	87
4	17-Octadecenal	266	C18H34O	056554-86-0	86
5	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	83





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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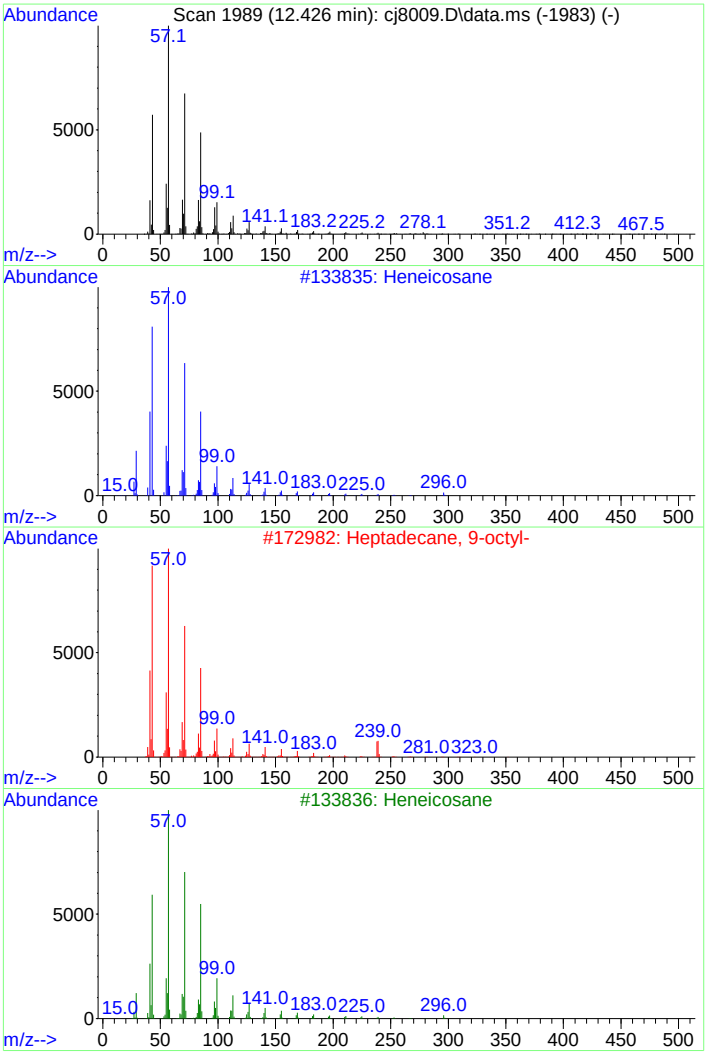
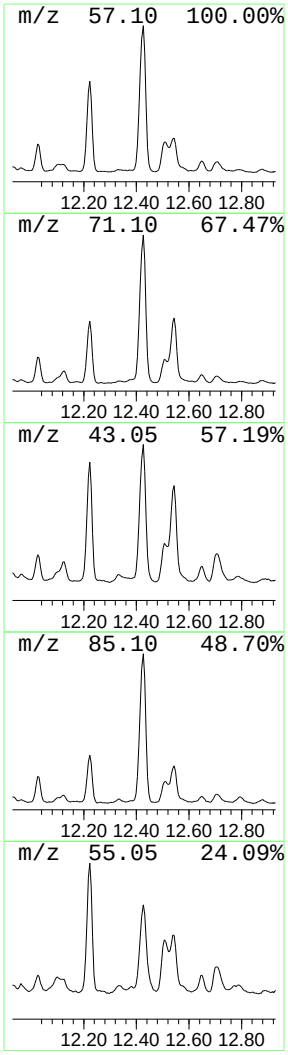
Peak Number 18 Alkane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.426	37.35 ppm	5388360	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	95
2	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	95
3	Heneicosane	296	C21H44	000629-94-7	91
4	Octacosane	394	C28H58	000630-02-4	91
5	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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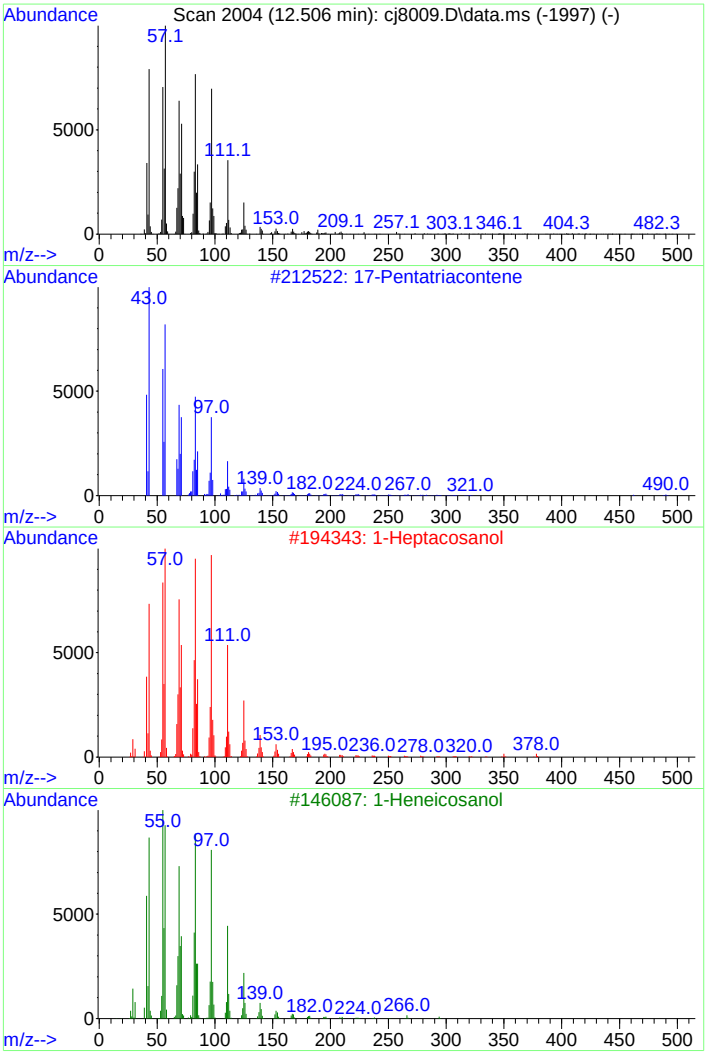
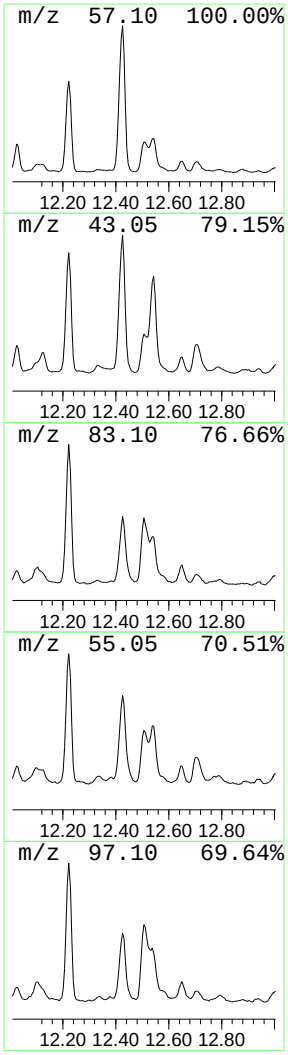
Peak Number 19 Unknown alcohol Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.506	16.28 ppm	2349220	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	17-Pentatriacontene	491	C35H70	006971-40-0	91
2	1-Heptacosanol	396	C27H56O	002004-39-9	90
3	1-Heneicosanol	312	C21H44O	015594-90-8	87
4	Behenic alcohol	326	C22H46O	000661-19-8	87
5	1-Docosene	308	C22H44	001599-67-3	87





Library Search Compound Report

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Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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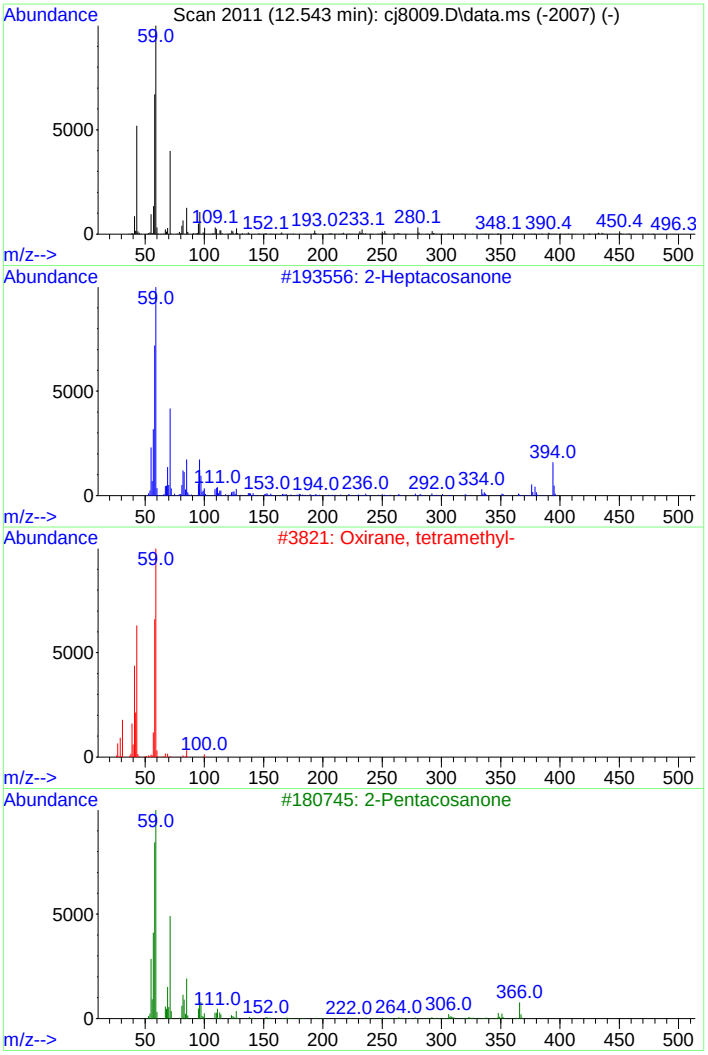
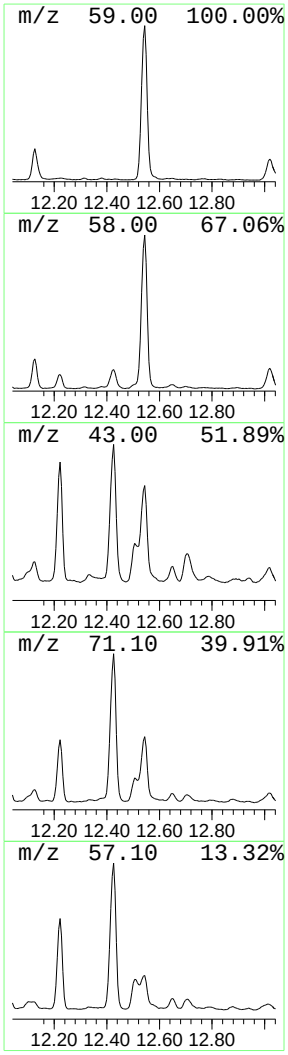
Peak Number 20 Unknown alcohol Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.543	24.37 ppm	3516470	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptacosanone	394	C27H54O	007796-19-2	64
2	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	50
3	2-Pentacosanone	366	C25H50O	075207-54-4	42
4	2-Nonadecanone	282	C19H38O	000629-66-3	42
5	2-Heptadecanone	254	C17H34O	002922-51-2	42





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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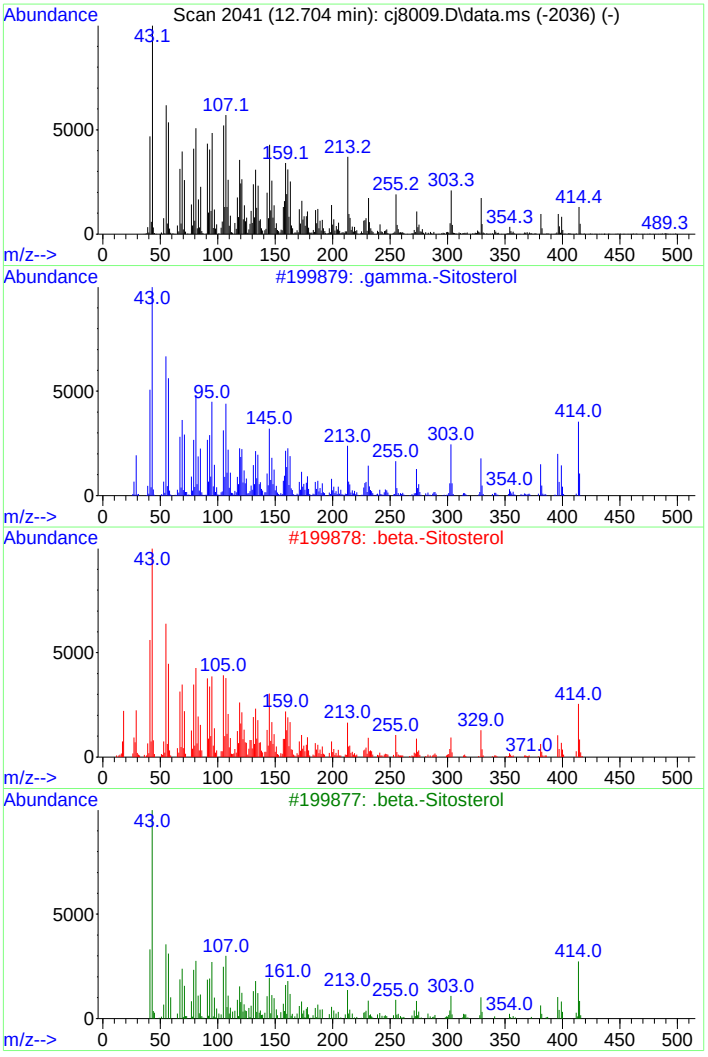
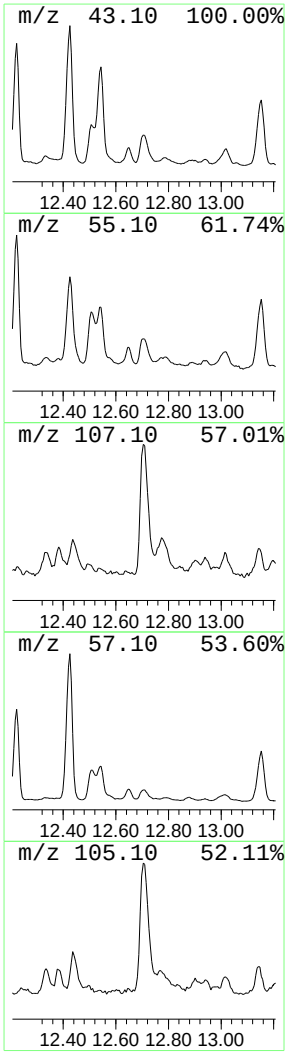
Peak Number 21 Sitosterol Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.704	19.58 ppm	2824880	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	96
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	94
4	.gamma.-Sitosterol	414	C29H50O	000083-47-6	78
5	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	58





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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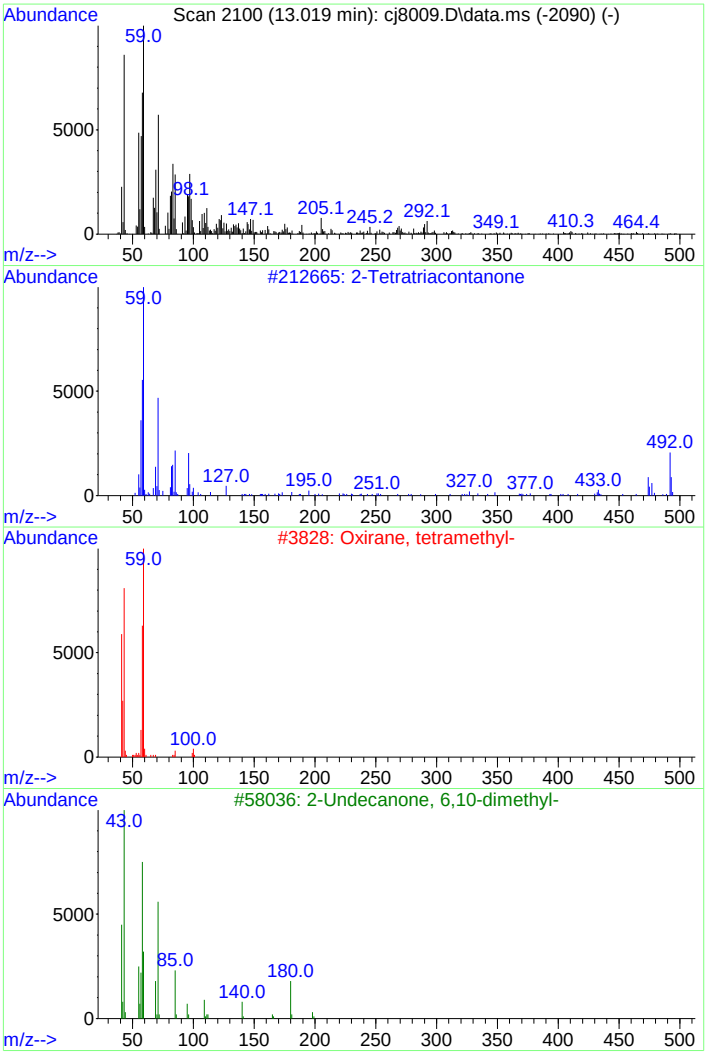
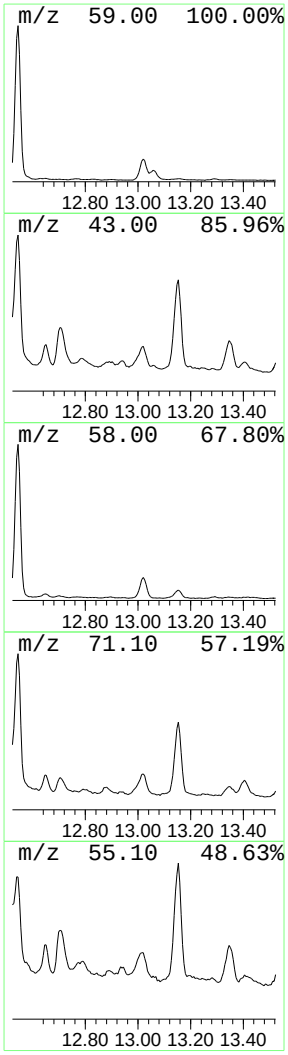
Peak Number 22 Unknown Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.020	9.65 ppm	1391840	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Tetratriacontanone	493	C34H68O	077327-16-3	64
2	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	38
3	2-Undecanone, 6,10-dimethyl-	198	C13H26O	001604-34-8	38
4	Cholest-5-ene, 3-(2-methoxyethox...	444	C30H52O2	057156-77-1	35
5	Carbonic acid, 3-fluorophenyl 2-...	214	C10H11FO4	1000331-46-3	30





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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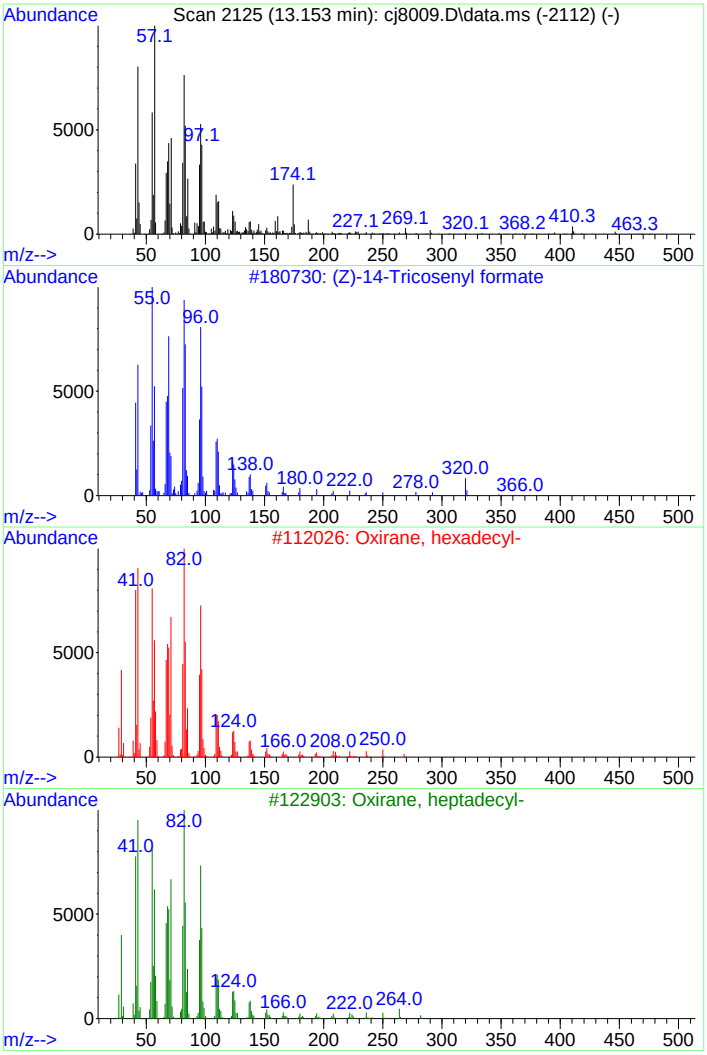
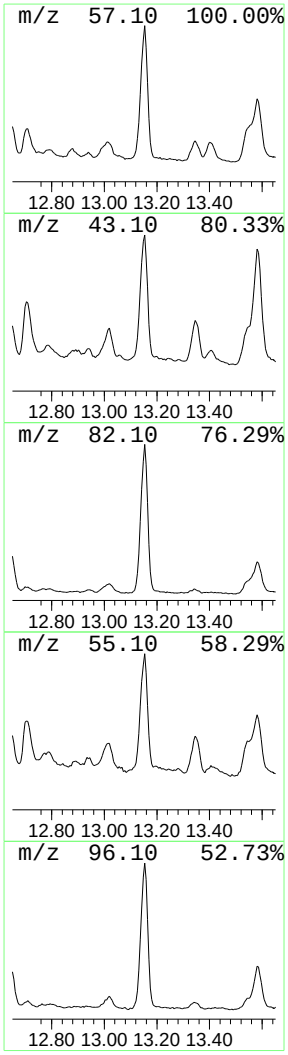
Peak Number 23 Unknown alcohol Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.153	27.62 ppm	3985800	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	86
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	81
3	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	81
4	17-Octadecenal	266	C18H34O	056554-86-0	72
5	1,19-Eicosadiene	278	C20H38	014811-95-1	70





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

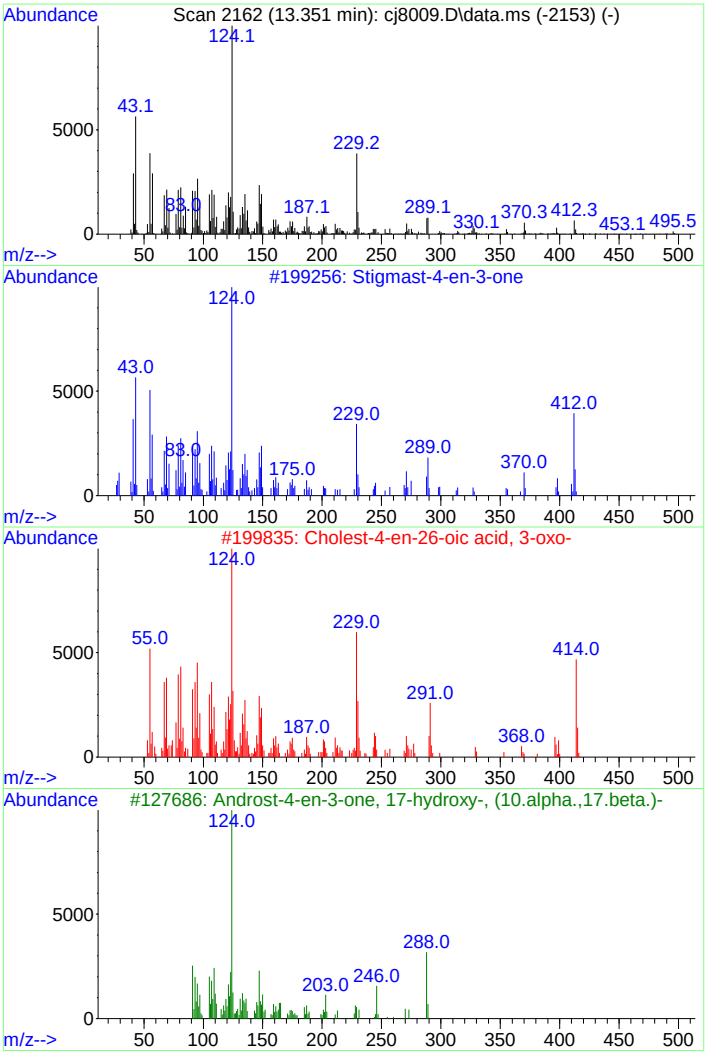
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

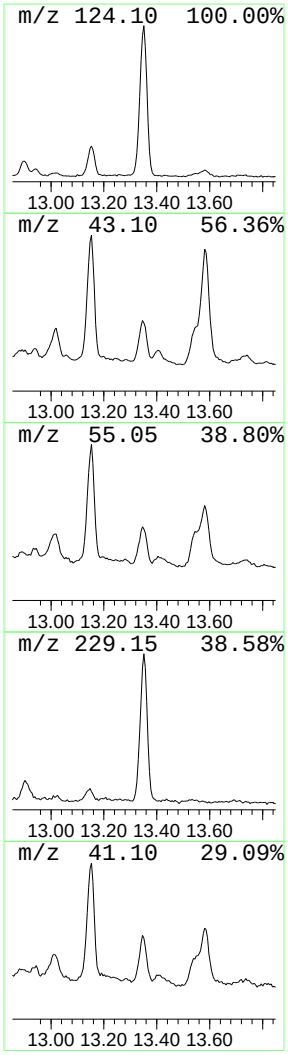
****

Peak Number 24 Unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.351	12.33 ppm	1779340	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	96
2	Cholest-4-en-26-oic acid, 3-oxo-	414	C27H42O3	023017-97-2	50
3	Androst-4-en-3-one, 17-hydroxy-,...	288	C19H28O2	000604-39-7	50
4	Testosterone cypionate	412	C27H40O3	000058-20-8	44
5	Pregn-4-ene-3,20-dione, 14-methyl-	328	C22H32O2	055162-96-4	43





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

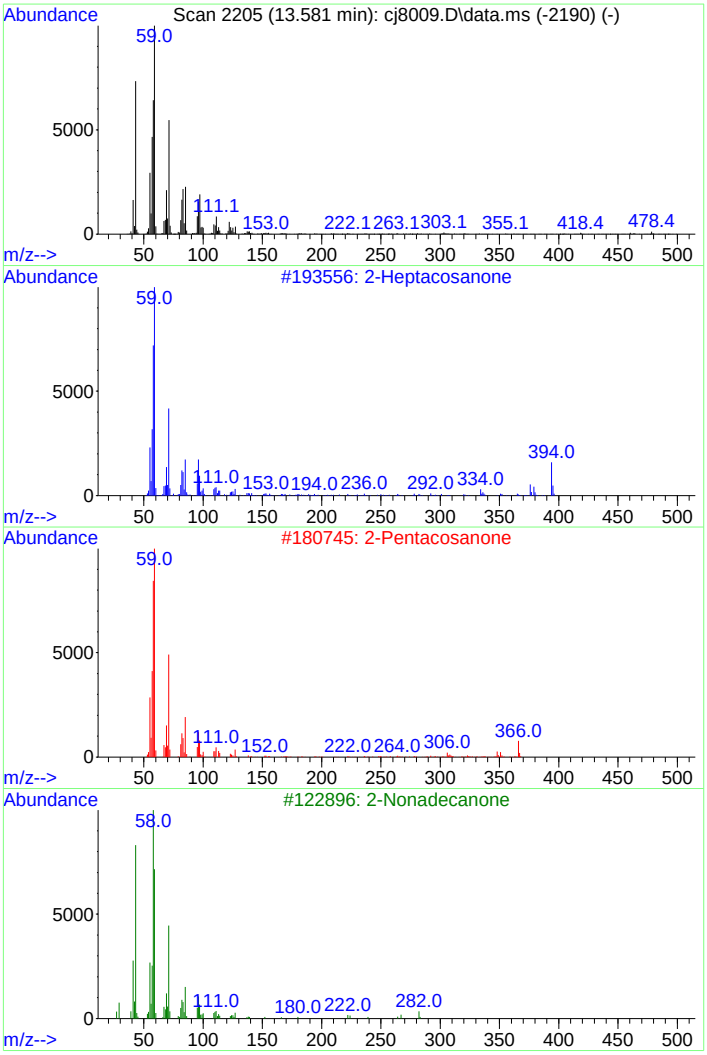
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

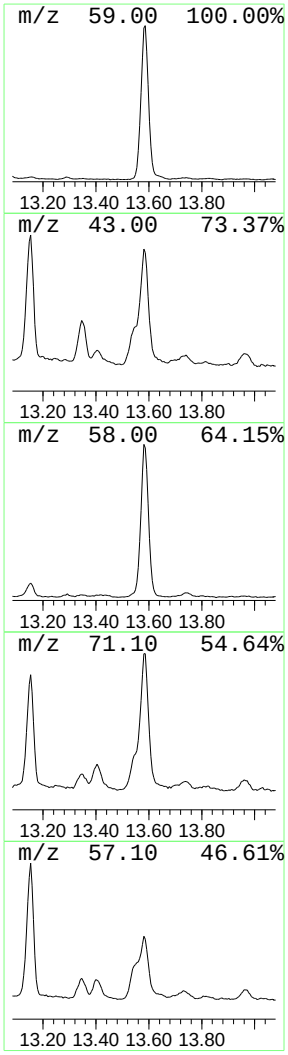
****

Peak Number 25 Unknown alcohol Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.581	25.88 ppm	3734610	Perylene-d12	11.281

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptacosanone	394	C27H54O	007796-19-2	80
2	2-Pentacosanone	366	C25H50O	075207-54-4	53
3	2-Nonadecanone	282	C19H38O	000629-66-3	52
4	Oxirane, 3-ethyl-2,2-dimethyl-	100	C6H12O	001192-22-9	47
5	Octanal, 7-hydroxy-3,7-dimethyl-	172	C10H20O2	000107-75-5	47





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8009.D
Acq On : 01 Jul 2024 07:38 pm
Operator : karimam
Sample : jd91204-10
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.536	15.0	ppm	839525	2	4.365	2233600	40.0
Unknown	9.885	24.2	ppm	2869020	9	9.965	4738170	40.0
Unknown acid	10.104	9.8	ppm	1157370	10	9.965	4738170	40.0
Unknown alcohol	10.522	61.4	ppm	7267960	10	9.965	4738170	40.0
Unknown acid	10.720	10.8	ppm	1555880	11	11.281	5771370	40.0
Alkane	11.089	42.4	ppm	6116820	11	11.281	5771370	40.0
Unknown alcohol	11.115	55.2	ppm	7968170	11	11.281	5771370	40.0
Alkane	11.367	14.2	ppm	2046600	11	11.281	5771370	40.0
Unknown alcohol	11.436	10.9	ppm	1575940	11	11.281	5771370	40.0
Unknown alcohol	11.511	45.1	ppm	6506050	11	11.281	5771370	40.0
.gamma.-Tocopherol	11.586	9.4	ppm	1360500	11	11.281	5771370	40.0
Alkane	11.688	78.2	ppm	11284500	11	11.281	5771370	40.0
Unknown alcohol	11.730	27.0	ppm	3890390	11	11.281	5771370	40.0
Unknown alcohol	11.762	20.9	ppm	3020580	11	11.281	5771370	40.0
Unknown	11.843	16.5	ppm	2376600	11	11.281	5771370	40.0
Unknown alcohol	12.121	15.2	ppm	2188140	11	11.281	5771370	40.0
Unknown alcohol	12.223	42.3	ppm	6103800	11	11.281	5771370	40.0
Alkane	12.426	37.4	ppm	5388360	11	11.281	5771370	40.0
Unknown alcohol	12.506	16.3	ppm	2349220	11	11.281	5771370	40.0
Unknown alcohol	12.543	24.4	ppm	3516470	11	11.281	5771370	40.0
Sitosterol	12.704	19.6	ppm	2824880	11	11.281	5771370	40.0
Unknown	13.020	9.7	ppm	1391840	11	11.281	5771370	40.0
Unknown alcohol	13.153	27.6	ppm	3985800	11	11.281	5771370	40.0
Unknown	13.351	12.3	ppm	1779340	11	11.281	5771370	40.0
Unknown alcohol	13.581	25.9	ppm	3734610	11	11.281	5771370	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 07/02/24 05:10

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8017.D
Acq On : 01 Jul 2024 10:08 pm
Operator : karimam
Sample : jd91204-11 Inst : GCMSCJ
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jul 02 04:37:37 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

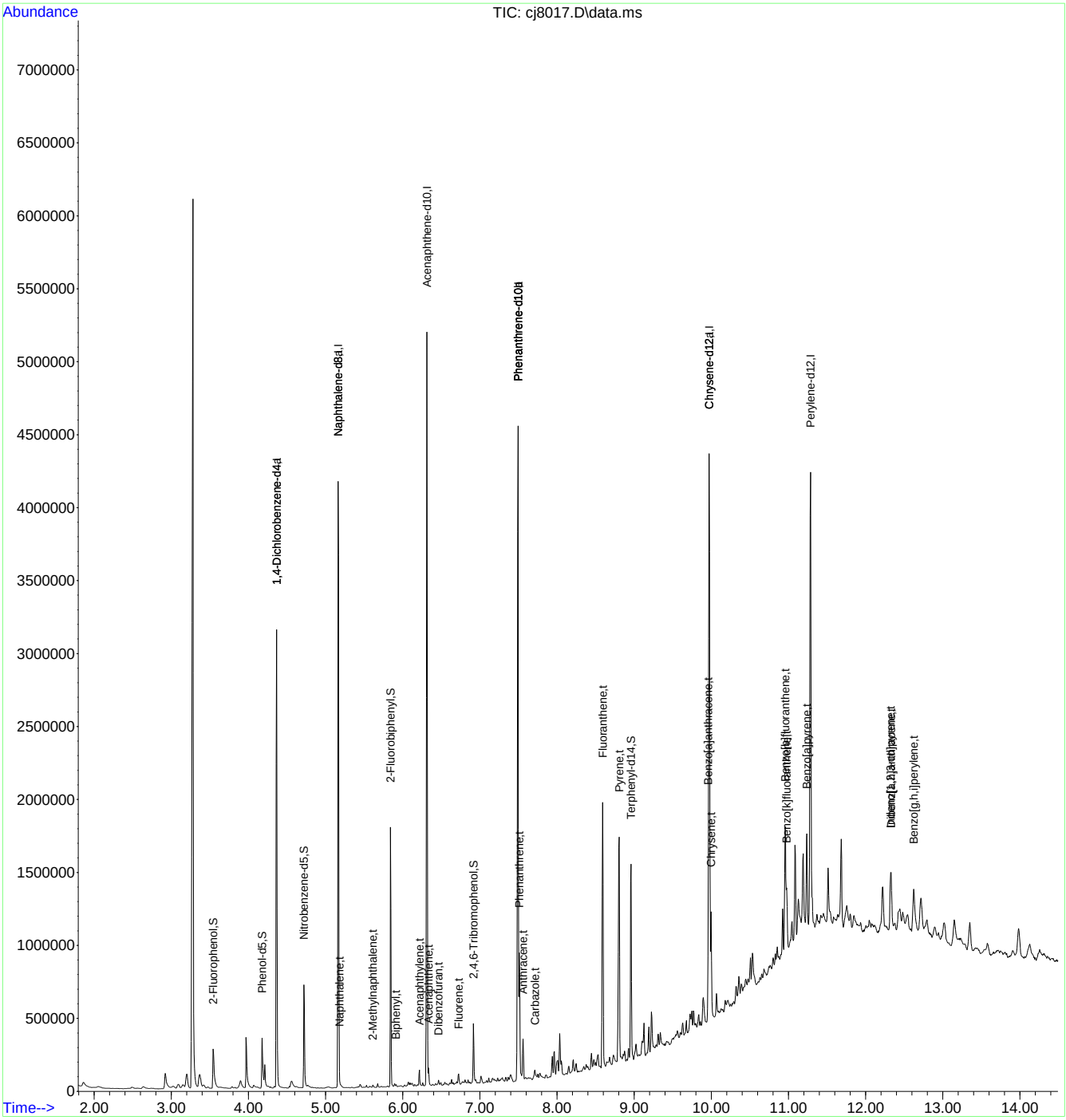
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.365	152	402501	40.00	ppm	0.00
24) Naphthalene-d8	5.162	136	1463272	40.00	ppm	0.00
46) Acenaphthene-d10	6.312	164	832714	40.00	ppm	0.00
69) Phenanthrene-d10	7.494	188	1545354	40.00	ppm	0.00
84) Chrysene-d12	9.971	240	1121934	40.00	ppm	0.01
93) Perylene-d12	11.287	264	1132035	40.00	ppm	0.02
103) 1,4-Dichlorobenzene-d4a	4.365	152	402501	40.00	ppm	0.00
105) Phenanthrene-d10a	7.494	188	1545354	40.00	ppm	0.00
107) Naphthalene-d8a	5.162	136	1463272	40.00	ppm	0.00
109) Phenanthrene-d10b	7.494	188	1545354	40.00	ppm	0.00
112) Chrysene-d12a	9.971	240	1121934	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.542	112	109435	9.46	ppm	0.02
Spiked Amount 50.000			Recovery = 18.92%			
8) Phenol-d5	4.178	99	145307	9.74	ppm	0.02
Spiked Amount 50.000			Recovery = 19.48%			
25) Nitrobenzene-d5	4.718	82	208794	13.94	ppm	0.00
Spiked Amount 50.000			Recovery = 27.88%			
51) 2-Fluorobiphenyl	5.842	172	408906	15.61	ppm	0.00
Spiked Amount 50.000			Recovery = 31.22%			
74) 2,4,6-Tribromophenol	6.917	330	37217	10.98	ppm	0.00
Spiked Amount 50.000			Recovery = 21.96%			
87) Terphenyl-d14	8.960	244	426170	15.37	ppm	0.01
Spiked Amount 50.000			Recovery = 30.74%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
38) Naphthalene	5.178	128	8874	0.2532	ppm	99
44) 2-Methylnaphthalene	5.612	141	3362	0.1618	ppm	91
53) Biphenyl	5.911	154	2829	0.0989	ppm	87
56) Acenaphthylene	6.216	152	42521	1.3165	ppm	98
59) Acenaphthene	6.334	153	17620	0.7671	ppm	99
62) Dibenzofuran	6.462	168	9887	0.3102	ppm	95
66) Fluorene	6.724	166	19687m	0.7819	ppm	
78) Phenanthrene	7.510	178	290168	7.7695	ppm	100
79) Anthracene	7.559	178	91340	2.4425	ppm	99
80) Carbazole	7.714	167	21651	0.6213	ppm	99
82) Fluoranthene	8.591	202	681684	16.8599	ppm	99
86) Pyrene	8.805	202	611131	16.0169	ppm	99
89) Benzo[a]anthracene	9.960	228	305381	8.4656	ppm	97
91) Chrysene	9.998	228	274066	8.2347	ppm	98
95) Benzo[b]fluoranthene	10.955	252	389584m	11.3923	ppm	
96) Benzo[k]fluoranthene	10.976	252	106989m	3.4769	ppm	
97) Benzo[a]pyrene	11.238	252	262860	9.2853	ppm	99
98) Indeno[1,2,3-cd]pyrene	12.324	276	172375	5.0367	ppm	88
100) Dibenz[a,h]anthracene	12.330	278	49272	1.8018	ppm	95
102) Benzo[g,h,i]perylene	12.624	276	170234	6.4009	ppm	99

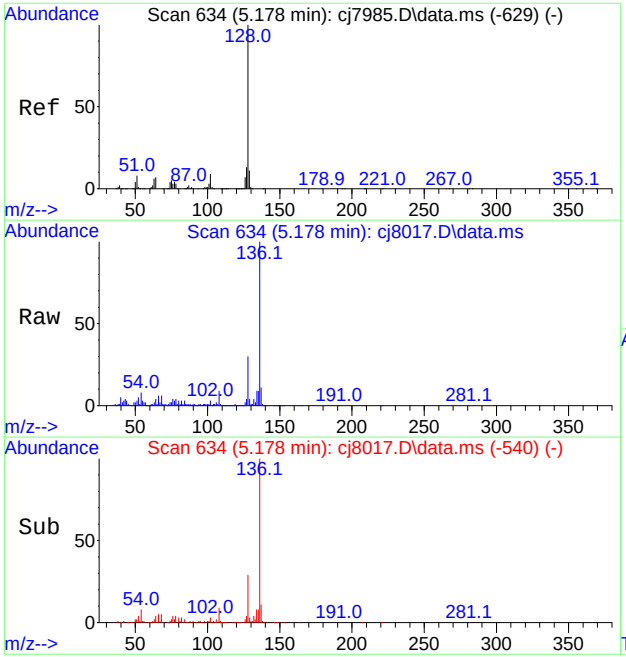
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8017.D
Acq On : 01 Jul 2024 10:08 pm
Operator : karimam
Sample : jd91204-11 Inst : GCMSCJ
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Jul 02 04:37:37 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

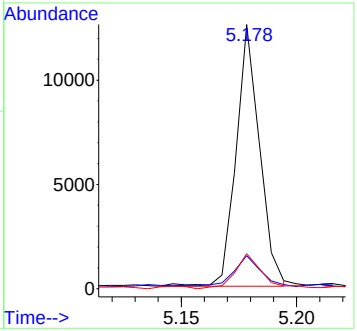


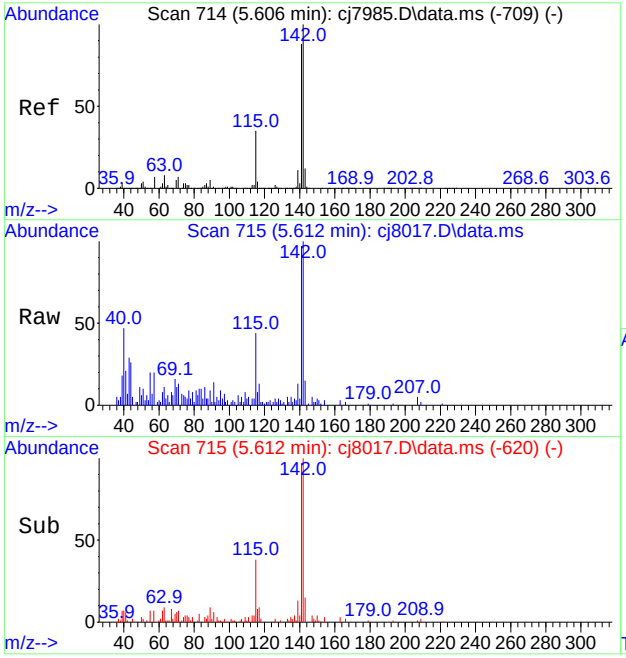


#38
Naphthalene
Concen: 0.2532 ppm
RT: 5.178 min Scan# 634
Delta R.T. 0.000 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:128 Resp: 8874

Ion	Ratio	Lower	Upper
128	100		
129	11.3	0.0	41.3
127	12.6	0.0	43.5

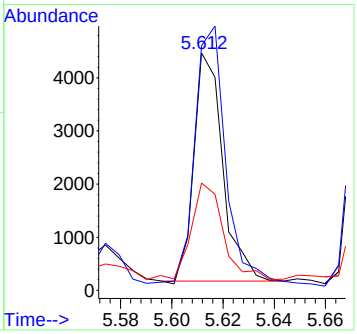


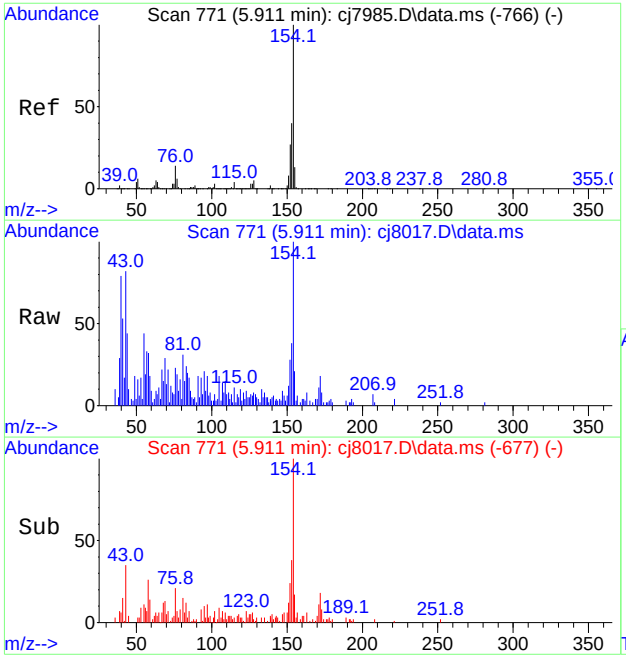


#44
2-Methylnaphthalene
Concen: 0.1618 ppm
RT: 5.612 min Scan# 715
Delta R.T. 0.005 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:141 Resp: 3362

Ion	Ratio	Lower	Upper
141	100		
142	102.4	83.7	143.7
115	41.3	9.3	69.3

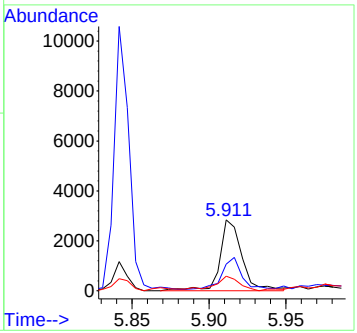


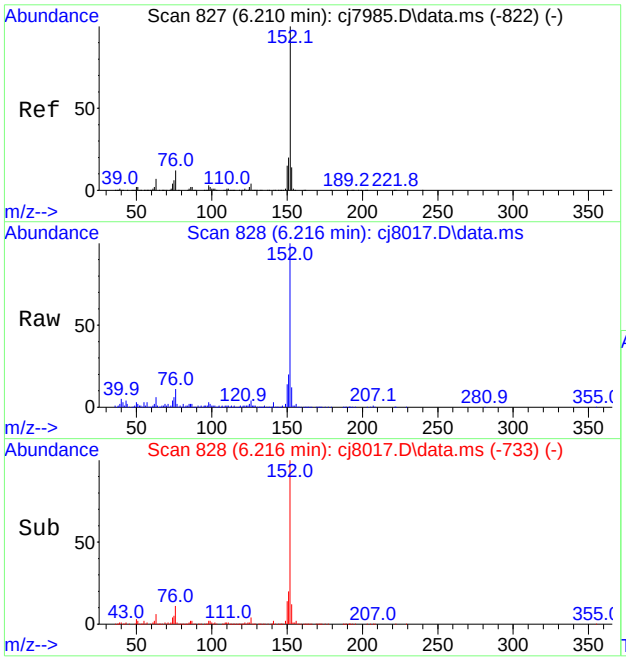


#53
Biphenyl
Concen: 0.0989 ppm
RT: 5.911 min Scan# 771
Delta R.T. 0.000 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:154 Resp: 2829

Ion	Ratio	Lower	Upper
154	100		
153	32.3	10.3	70.3
155	17.7	0.0	42.9

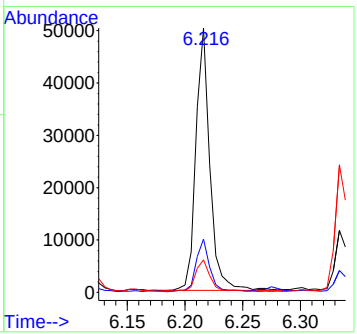


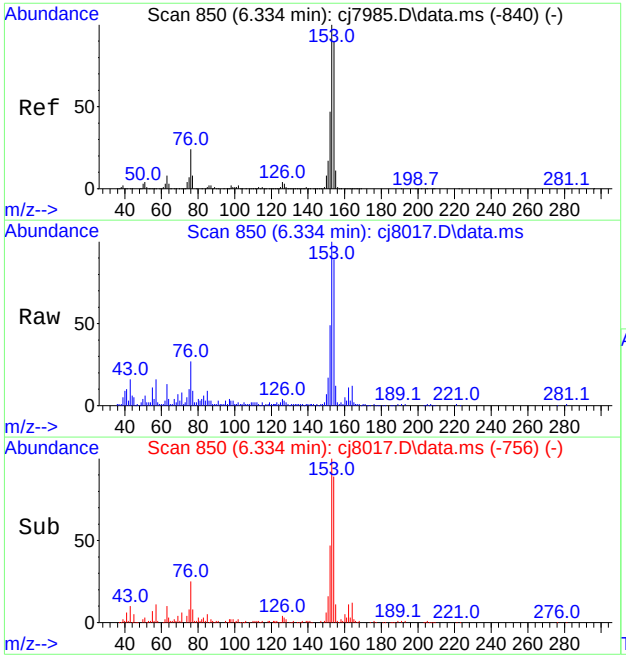


#56
Acenaphthylene
Concen: 1.3165 ppm
RT: 6.216 min Scan# 828
Delta R.T. 0.005 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:152 Resp: 42521

Ion	Ratio	Lower	Upper
152	100		
151	19.8	0.0	50.2
153	12.0	0.0	43.5

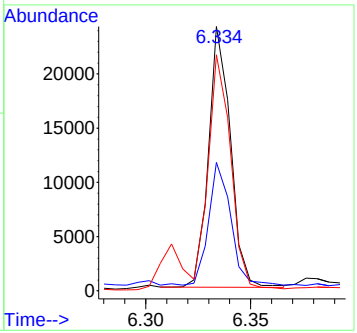


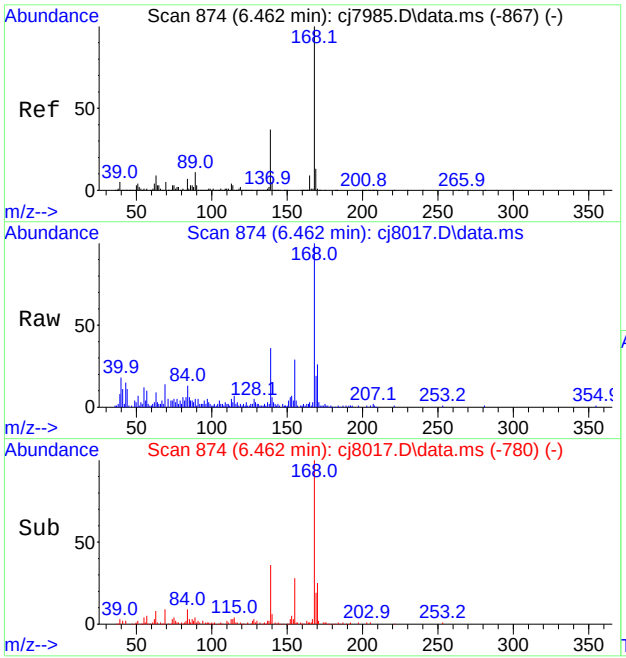


#59
Acenaphthene
Concen: 0.7671 ppm
RT: 6.334 min Scan# 850
Delta R.T. 0.000 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:153 Resp: 17620

Ion	Ratio	Lower	Upper
153	100		
152	47.2	16.9	76.9
154	85.1	56.2	116.2

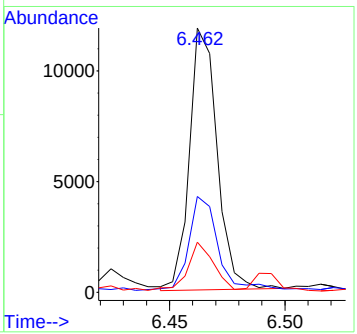


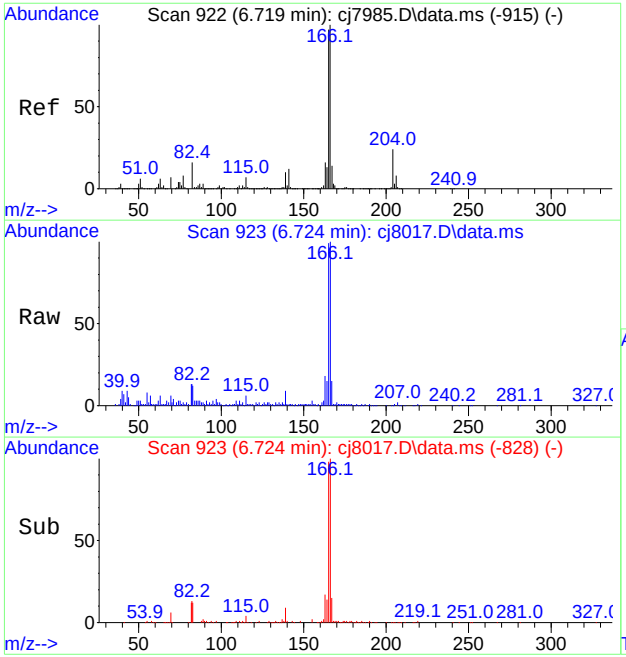


#62
Dibenzofuran
Concen: 0.3102 ppm
RT: 6.462 min Scan# 874
Delta R.T. 0.000 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:168 Resp: 9887

Ion	Ratio	Lower	Upper
168	100		
139	35.5	7.3	67.3
169	17.6	0.0	43.4

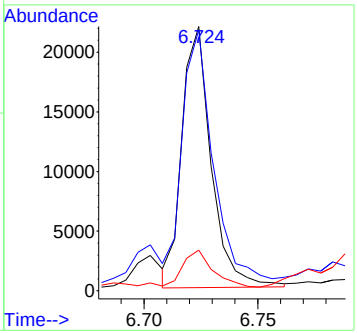


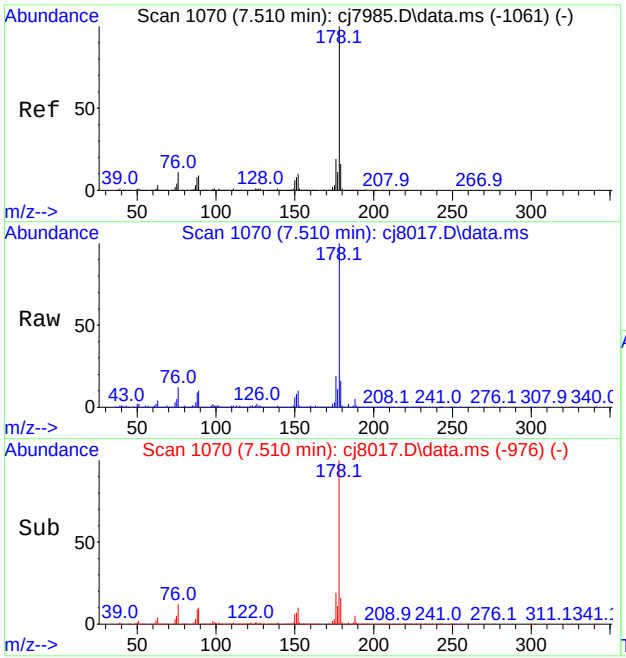


#66
Fluorene
Concen: 0.7819 ppm m
RT: 6.724 min Scan# 923
Delta R.T. 0.005 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:166 Resp: 19687

Ion	Ratio	Lower	Upper
166	100		
165	98.7	67.2	127.2
167	15.3	0.0	43.8

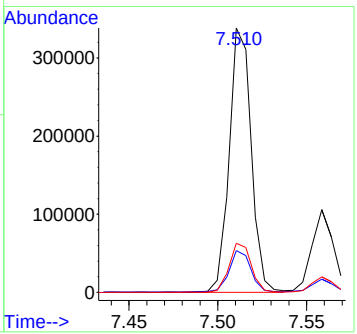


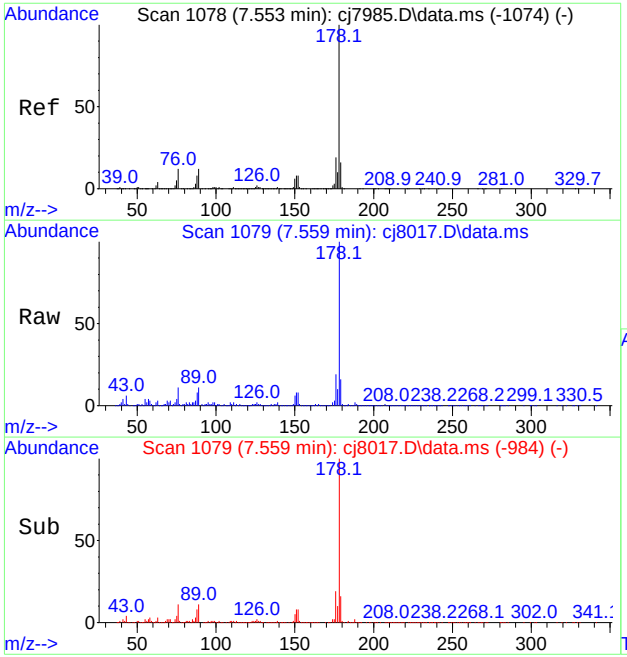


#78
Phenanthrene
Concen: 7.7695 ppm
RT: 7.510 min Scan# 1070
Delta R.T. 0.000 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:178 Resp: 290168

Ion	Ratio	Lower	Upper
178	100		
179	15.7	0.0	45.5
176	18.6	0.0	48.7

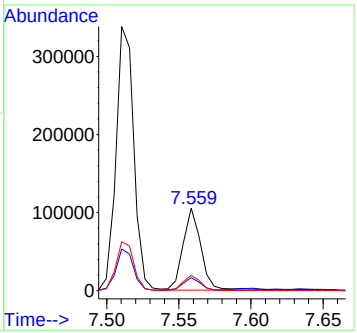


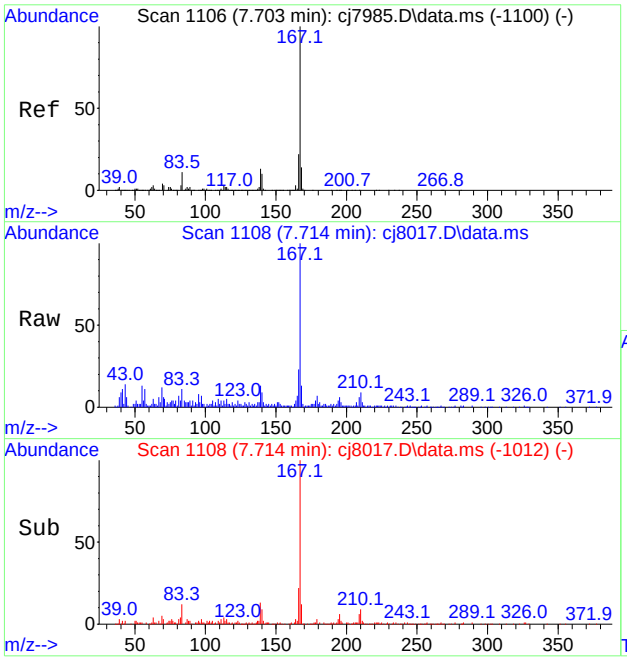


#79
Anthracene
Concen: 2.4425 ppm
RT: 7.559 min Scan# 1079
Delta R.T. 0.005 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:178 Resp: 91340

Ion	Ratio	Lower	Upper
178	100		
179	15.0	0.0	45.9
176	18.7	0.0	48.8

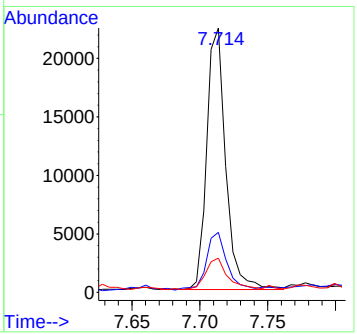


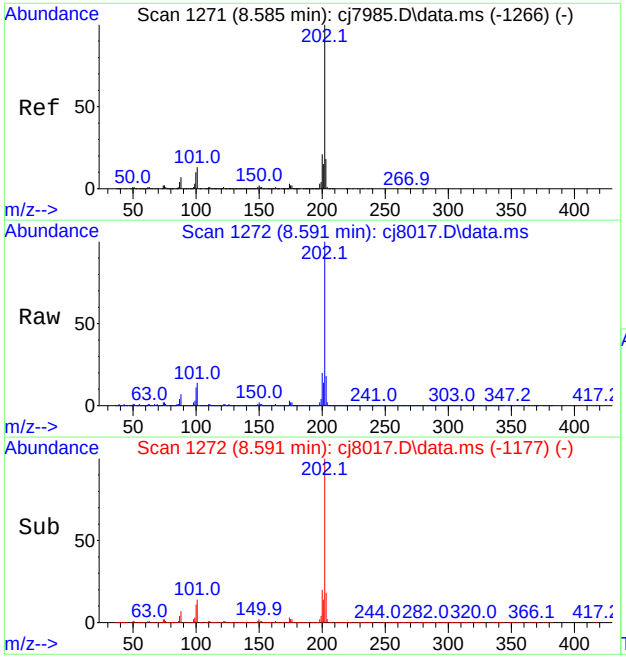


#80
Carbazole
Concen: 0.6213 ppm
RT: 7.714 min Scan# 1108
Delta R.T. 0.011 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:167 Resp: 21651

Ion	Ratio	Lower	Upper
167	100		
166	21.3	0.0	51.7
139	11.8	0.0	42.8

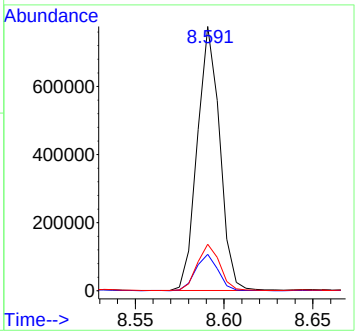


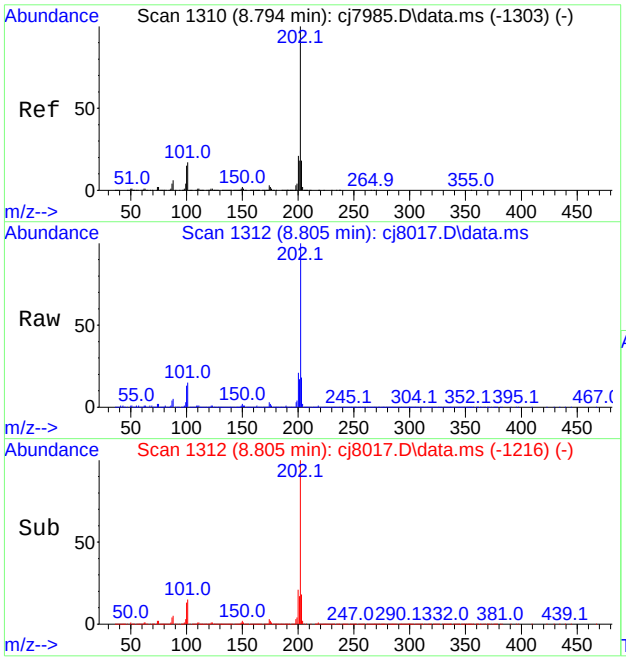


#82
Fluoranthene
Concen: 16.8599 ppm
RT: 8.591 min Scan# 1272
Delta R.T. 0.005 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:202 Resp: 681684

Ion	Ratio	Lower	Upper
202	100		
101	13.7	0.0	42.9
203	17.5	0.0	47.5

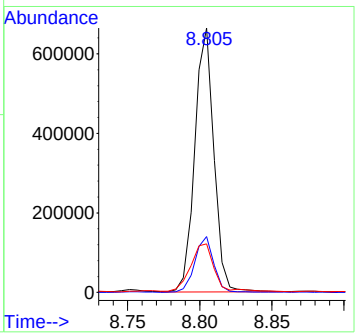


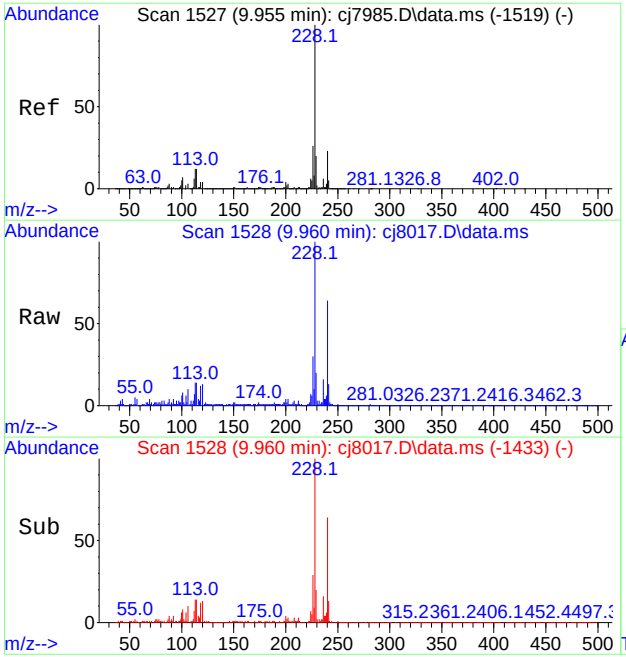


#86
Pyrene
Concen: 16.0169 ppm
RT: 8.805 min Scan# 1312
Delta R.T. 0.011 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:202 Resp: 611131

Ion	Ratio	Lower	Upper
202	100		
200	21.1	0.0	51.0
203	18.0	0.0	48.5

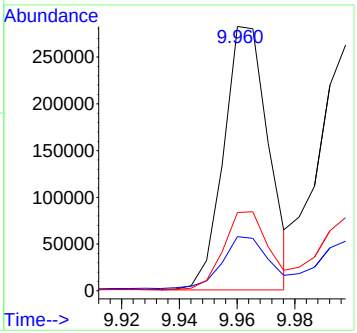


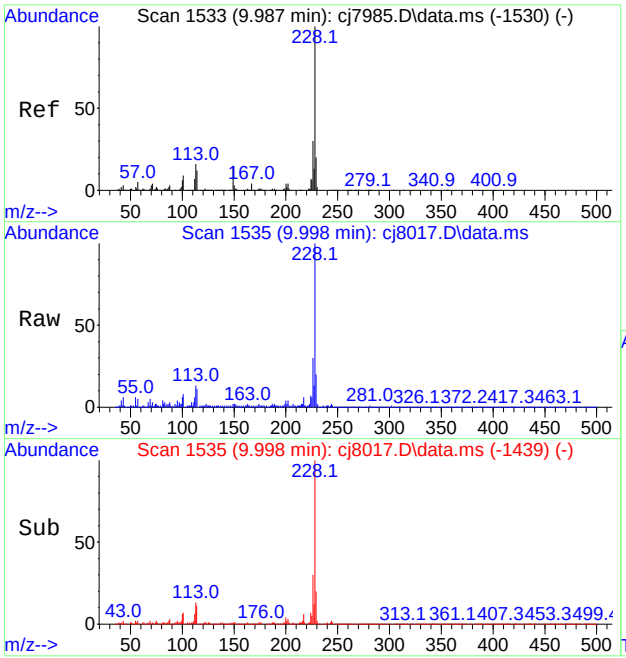


#89
Benzo[a]anthracene
Concen: 8.4656 ppm
RT: 9.960 min Scan# 1528
Delta R.T. 0.005 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:228 Resp: 305381

Ion	Ratio	Lower	Upper
228	100		
229	19.4	0.0	49.9
226	29.0	0.0	56.5

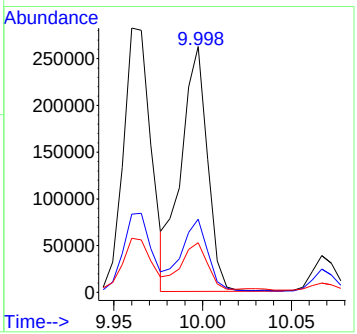


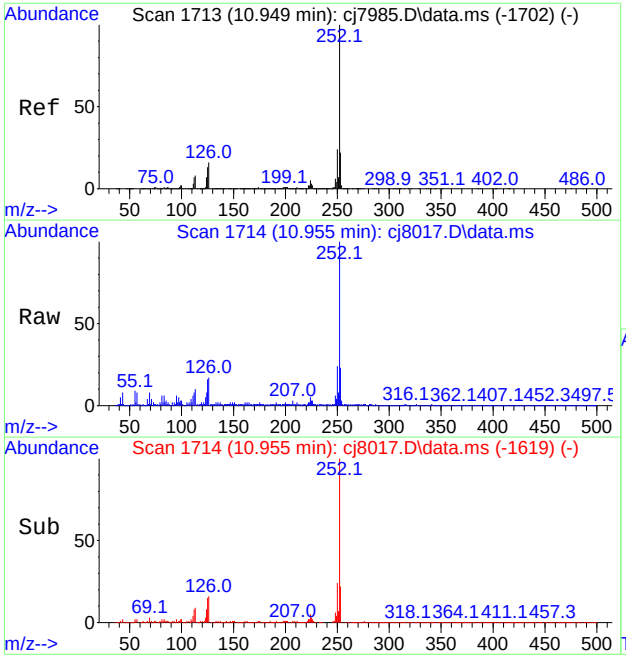


#91
Chrysene
Concen: 8.2347 ppm
RT: 9.998 min Scan# 1535
Delta R.T. 0.011 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:228 Resp: 274066

Ion	Ratio	Lower	Upper
228	100		
226	29.1	0.3	60.3
229	19.0	0.0	50.3

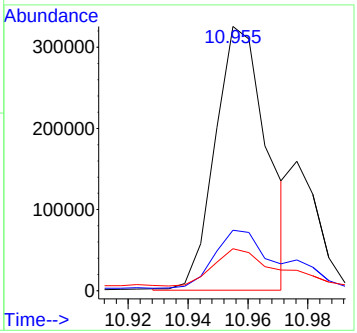


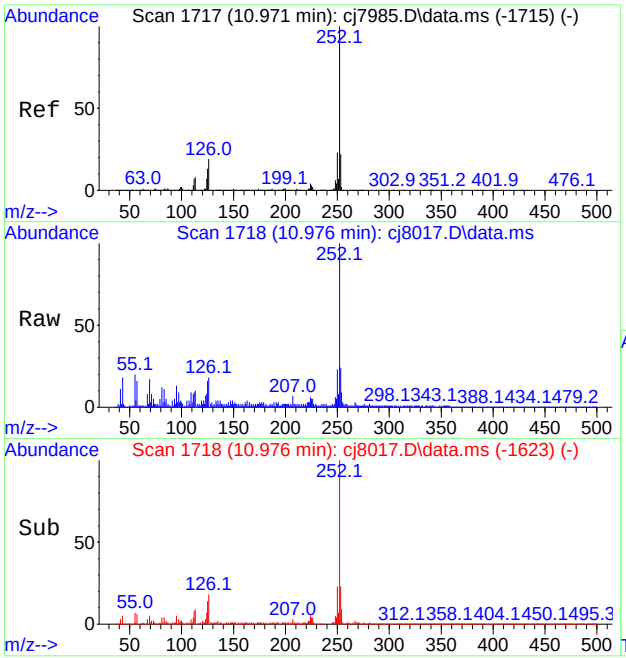


#95
Benzo[b]fluoranthene
Concen: 11.3923 ppm m
RT: 10.955 min Scan# 1714
Delta R.T. 0.005 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:252 Resp: 389584

Ion	Ratio	Lower	Upper
252	100		
253	22.9	0.0	52.5
125	15.9	0.0	42.4

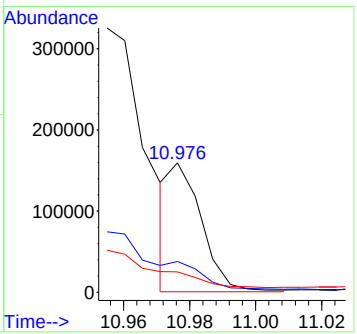


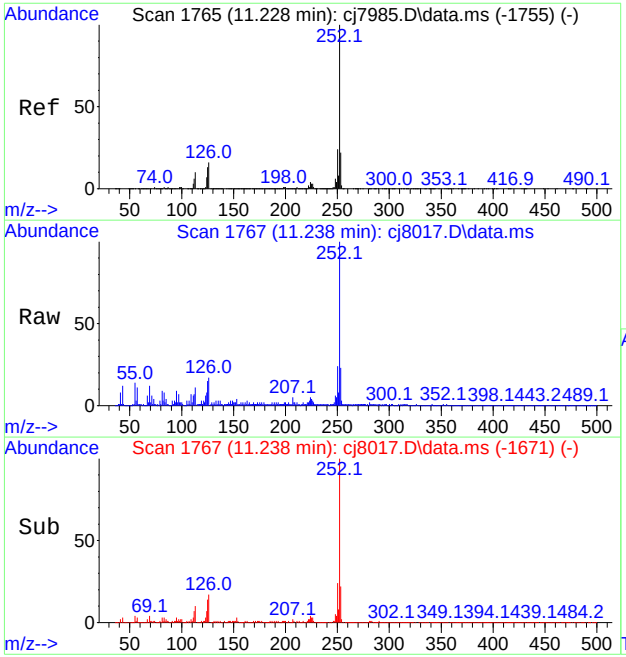


#96
Benzo[k]fluoranthene
Concen: 3.4769 ppm m
RT: 10.976 min Scan# 1718
Delta R.T. 0.005 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:252 Resp: 106989

Ion	Ratio	Lower	Upper
252	100		
253	23.9	0.0	51.7
125	15.9	0.0	43.5

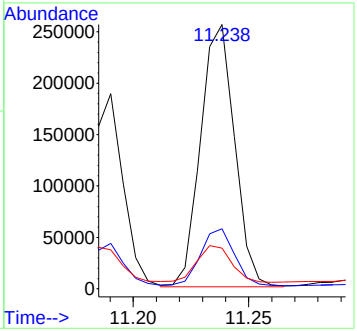


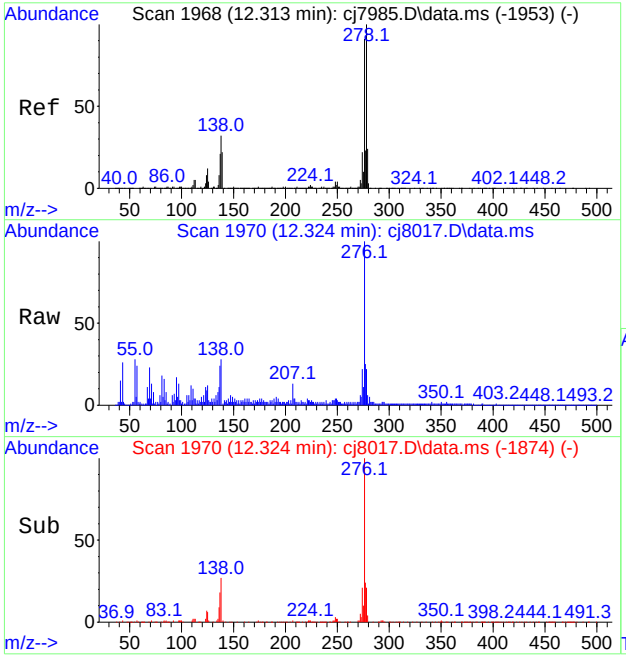


#97
Benzo[a]pyrene
Concen: 9.2853 ppm
RT: 11.238 min Scan# 1767
Delta R.T. 0.011 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:252 Resp: 262860

Ion	Ratio	Lower	Upper
252	100		
253	21.7	0.0	52.1
125	12.8	0.0	42.5

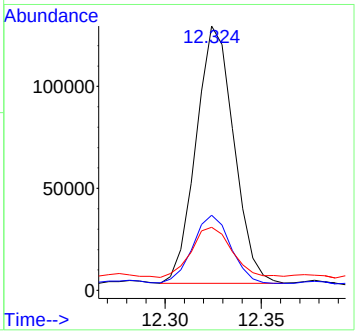


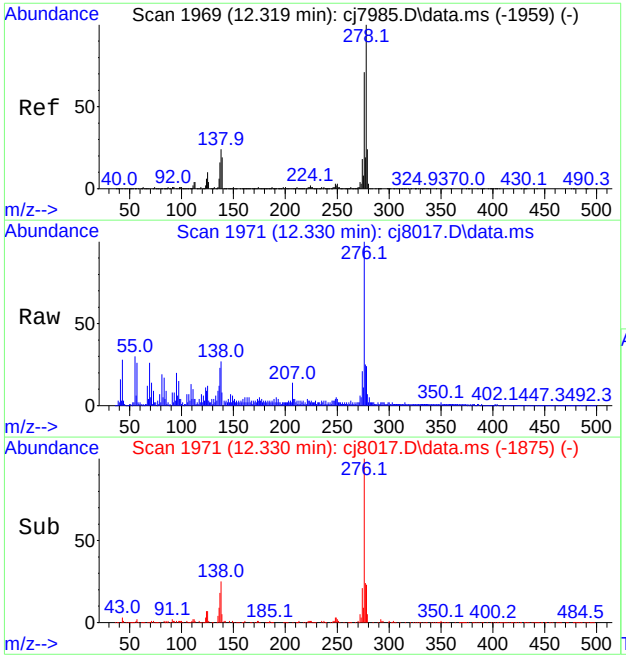


#98
Indeno[1,2,3-cd]pyrene
Concen: 5.0367 ppm
RT: 12.324 min Scan# 1970
Delta R.T. 0.011 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:276 Resp: 172375

Ion	Ratio	Lower	Upper
276	100		
138	26.3	5.2	65.2
137	19.3	0.0	53.3

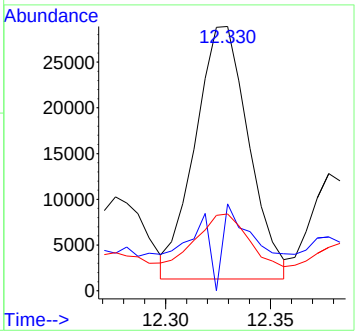


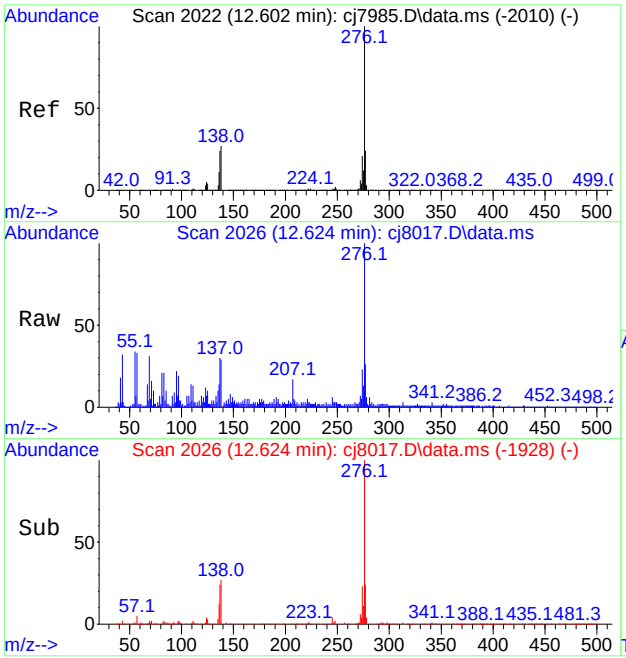


#100
Dibenz[a,h]anthracene
Concen: 1.8018 ppm
RT: 12.330 min Scan# 1971
Delta R.T. 0.011 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:278 Resp: 49272

Ion	Ratio	Lower	Upper
278	100		
139	21.7	0.0	48.9
279	22.0	0.0	53.7

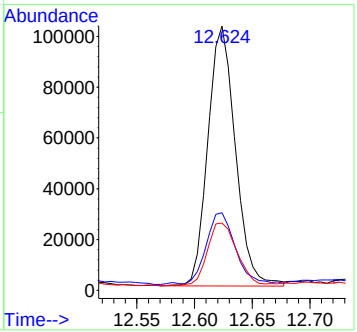




#102
Benzo[g,h,i]perylene
Concen: 6.4009 ppm
RT: 12.624 min Scan# 2026
Delta R.T. 0.022 min
Lab File: cj8017.D
Acq: 01 Jul 2024 10:08 pm

Tgt Ion:276 Resp: 170234

Ion	Ratio	Lower	Upper
276	100		
138	27.6	0.0	57.0
277	23.7	0.0	53.6



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8017.D
Acq On : 01 Jul 2024 10:08 pm
Operator : karimam
Sample : jd91204-11
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj8017.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.178	443	447	451	rBV	344856	361529	7.24%	0.672%
2	4.210	451	453	459	rVB	150455	125290	2.51%	0.233%
3	4.365	473	482	500	rBV	3142591	2386851	47.79%	4.436%
4	4.558	509	518	528	rBV5	48968	125605	2.51%	0.233%
5	4.718	543	548	556	rBV	706407	586772	11.75%	1.091%
6	5.162	626	631	648	rBV	4156889	3083868	61.74%	5.732%
7	5.842	754	758	765	rBV	1780974	1197856	23.98%	2.226%
8	6.216	820	828	834	rBV	109133	101746	2.04%	0.189%
9	6.312	840	846	857	rBV	5167240	3705391	74.18%	6.887%
10	6.724	912	923	928	rBV	74064	97540	1.95%	0.181%
11	6.917	953	959	963	rBV	413293	358682	7.18%	0.667%
12	7.398	1045	1049	1056	rVB3	49593	88550	1.77%	0.165%
13	7.494	1056	1067	1076	rBV2	4494655	4588419	91.86%	8.528%
14	7.559	1076	1079	1083	rVB	272840	220293	4.41%	0.409%
15	7.714	1101	1108	1113	rBV	67467	114716	2.30%	0.213%
16	7.938	1145	1150	1152	rBV	141438	126957	2.54%	0.236%
17	7.965	1152	1155	1158	rVB	157738	139476	2.79%	0.259%
18	8.008	1158	1163	1165	rBV2	96208	133489	2.67%	0.248%
19	8.035	1165	1168	1179	rVB	283535	340220	6.81%	0.632%
20	8.152	1186	1190	1194	rBV4	55537	64397	1.29%	0.120%
21	8.211	1194	1201	1204	rBV	93062	103859	2.08%	0.193%
22	8.446	1240	1245	1248	rBV	114546	113988	2.28%	0.212%
23	8.532	1256	1261	1268	rVB3	93105	141383	2.83%	0.263%
24	8.591	1268	1272	1279	rBV	1821501	1641885	32.87%	3.052%
25	8.682	1284	1289	1294	rVB2	53059	68134	1.36%	0.127%
26	8.730	1294	1298	1306	rBV3	66995	134036	2.68%	0.249%
27	8.805	1306	1312	1319	rBV	1541863	1654635	33.13%	3.075%
28	8.874	1319	1325	1328	rVB2	70246	105260	2.11%	0.196%
29	8.928	1328	1335	1337	rBV	88783	95432	1.91%	0.177%
30	8.960	1337	1341	1347	rVB	1340545	1235915	24.74%	2.297%
31	9.024	1347	1353	1357	rBV2	106961	175887	3.52%	0.327%
32	9.126	1362	1372	1376	rBV2	224512	326542	6.54%	0.607%
33	9.190	1376	1384	1387	rBV	196832	209554	4.20%	0.389%
34	9.222	1387	1390	1399	rBV2	277170	362490	7.26%	0.674%
35	9.313	1403	1407	1409	rBV	86358	78513	1.57%	0.146%
36	9.340	1409	1412	1421	rVB	88907	101714	2.04%	0.189%
37	9.420	1423	1427	1434	rBV7	32087	71836	1.44%	0.134%
38	9.500	1435	1442	1444	rBV6	41800	74240	1.49%	0.138%
39	9.559	1444	1453	1457	rBV4	60132	121780	2.44%	0.226%
40	9.628	1463	1466	1469	rVB	85514	81645	1.63%	0.152%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8017.D
Acq On : 01 Jul 2024 10:08 pm
Operator : karimam
Sample : jd91204-11
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.677	1469	1475	1478	rBV4	102757	107962	2.16%	0.201%
42	9.725	1478	1484	1486	rBV	131251	174994	3.50%	0.325%
43	9.746	1486	1488	1490	rVB	98414	65181	1.30%	0.121%
44	9.768	1490	1492	1495	rVB	100537	73530	1.47%	0.137%
45	9.837	1500	1505	1507	rBV	87768	89627	1.79%	0.167%
46	9.896	1511	1516	1524	rBV2	191310	328137	6.57%	0.610%
47	9.971	1524	1530	1543	rBV2	3898366	4994836	100.00%	9.283%
48	10.067	1543	1548	1552	rBV2	161253	179493	3.59%	0.334%
49	10.179	1565	1569	1572	rBV	81725	101532	2.03%	0.189%
50	10.217	1572	1576	1580	rVB4	43953	66969	1.34%	0.124%
51	10.318	1592	1595	1598	rBV	119999	137222	2.75%	0.255%
52	10.356	1598	1602	1605	rBV	135614	133985	2.68%	0.249%
53	10.388	1605	1608	1611	rBV2	65379	72749	1.46%	0.135%
54	10.447	1611	1619	1622	rBV6	81938	153807	3.08%	0.286%
55	10.506	1627	1630	1632	rBV2	166985	133018	2.66%	0.247%
56	10.532	1632	1635	1644	rVB4	217965	339999	6.81%	0.632%
57	10.629	1645	1653	1655	rBV6	47667	69019	1.38%	0.128%
58	10.682	1660	1663	1669	rBV6	61068	102438	2.05%	0.190%
59	10.762	1669	1678	1681	rBV8	69533	162412	3.25%	0.302%
60	10.800	1681	1685	1688	rBV3	76596	88644	1.77%	0.165%
61	10.832	1688	1691	1692	rBV	76480	66027	1.32%	0.123%
62	10.853	1692	1695	1701	rBV	88451	96551	1.93%	0.179%
63	10.923	1701	1708	1711	rBV	348092	363158	7.27%	0.675%
64	10.955	1711	1714	1723	rVV	844496	1318118	26.39%	2.450%
65	11.046	1723	1731	1734	rVV2	181797	278435	5.57%	0.518%
66	11.083	1734	1738	1742	rVV	699363	760030	15.22%	1.413%
67	11.126	1742	1746	1753	rVV5	323261	768764	15.39%	1.429%
68	11.190	1753	1758	1763	rVV	627001	1005112	20.12%	1.868%
69	11.238	1763	1767	1771	rVV	755640	977775	19.58%	1.817%
70	11.287	1771	1776	1786	rVV	3223925	3912472	78.33%	7.272%
71	11.367	1786	1791	1797	rVV7	186669	504936	10.11%	0.938%
72	11.420	1797	1801	1804	rVV3	174358	343849	6.88%	0.639%
73	11.452	1804	1807	1814	rVV6	178961	482507	9.66%	0.897%
74	11.511	1814	1818	1829	rVV3	479580	1033592	20.69%	1.921%
75	11.581	1829	1831	1838	rVV6	137504	357773	7.16%	0.665%
76	11.640	1838	1842	1844	rVV4	150095	257499	5.16%	0.479%
77	11.682	1844	1850	1855	rVV	658418	947232	18.96%	1.761%
78	11.757	1855	1864	1869	rVV7	192139	584040	11.69%	1.085%
79	11.800	1869	1872	1876	rVV4	129643	199703	4.00%	0.371%
80	11.848	1876	1881	1893	rVV7	105640	351409	7.04%	0.653%
81	11.934	1894	1897	1902	rVB7	66241	85789	1.72%	0.159%
82	12.046	1915	1918	1922	rVV5	51781	63675	1.27%	0.118%
83	12.223	1941	1951	1956	rBV3	310189	557323	11.16%	1.036%
84	12.330	1965	1971	1977	rBV	395784	645861	12.93%	1.200%
85	12.378	1977	1980	1984	rVV3	52641	80712	1.62%	0.150%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8017.D
Acq On : 01 Jul 2024 10:08 pm
Operator : karimam
Sample : jd91204-11
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.442	1984	1992	1996	rVV3	153597	410896	8.23%	0.764%
87	12.479	1996	1999	2005	rVV3	135540	277420	5.55%	0.516%
88	12.544	2005	2011	2021	rVV7	123773	323002	6.47%	0.600%
89	12.624	2021	2026	2036	rVV	305588	646365	12.94%	1.201%
90	12.715	2036	2043	2050	rVV3	249527	572408	11.46%	1.064%
91	12.795	2051	2058	2070	rVB3	123283	353905	7.09%	0.658%
92	12.891	2070	2076	2082	rBV3	73819	158444	3.17%	0.294%
93	13.014	2091	2099	2117	rVB3	156837	489854	9.81%	0.910%
94	13.148	2117	2124	2132	rBV5	177753	422802	8.46%	0.786%
95	13.351	2155	2162	2170	rVB2	193516	347782	6.96%	0.646%
96	13.576	2201	2204	2214	rVB5	81616	149597	3.00%	0.278%
97	13.902	2261	2265	2271	rBV9	37822	71313	1.43%	0.133%
98	13.982	2272	2280	2293	rVB3	205944	477494	9.56%	0.887%
99	14.127	2297	2307	2323	rVB3	112080	414330	8.30%	0.770%
100	14.255	2323	2331	2338	rBV2	75300	223977	4.48%	0.416%

Sum of corrected areas: 53803860

LSC Report - Integrated Chromatogram

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Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8017.D
Acq On    : 01 Jul 2024  10:08 pm
Operator  : karimam
Sample    : jd91204-11
Misc      : op55759,ecj348,30.3,,,1,1
ALS Vial  : 33   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title  : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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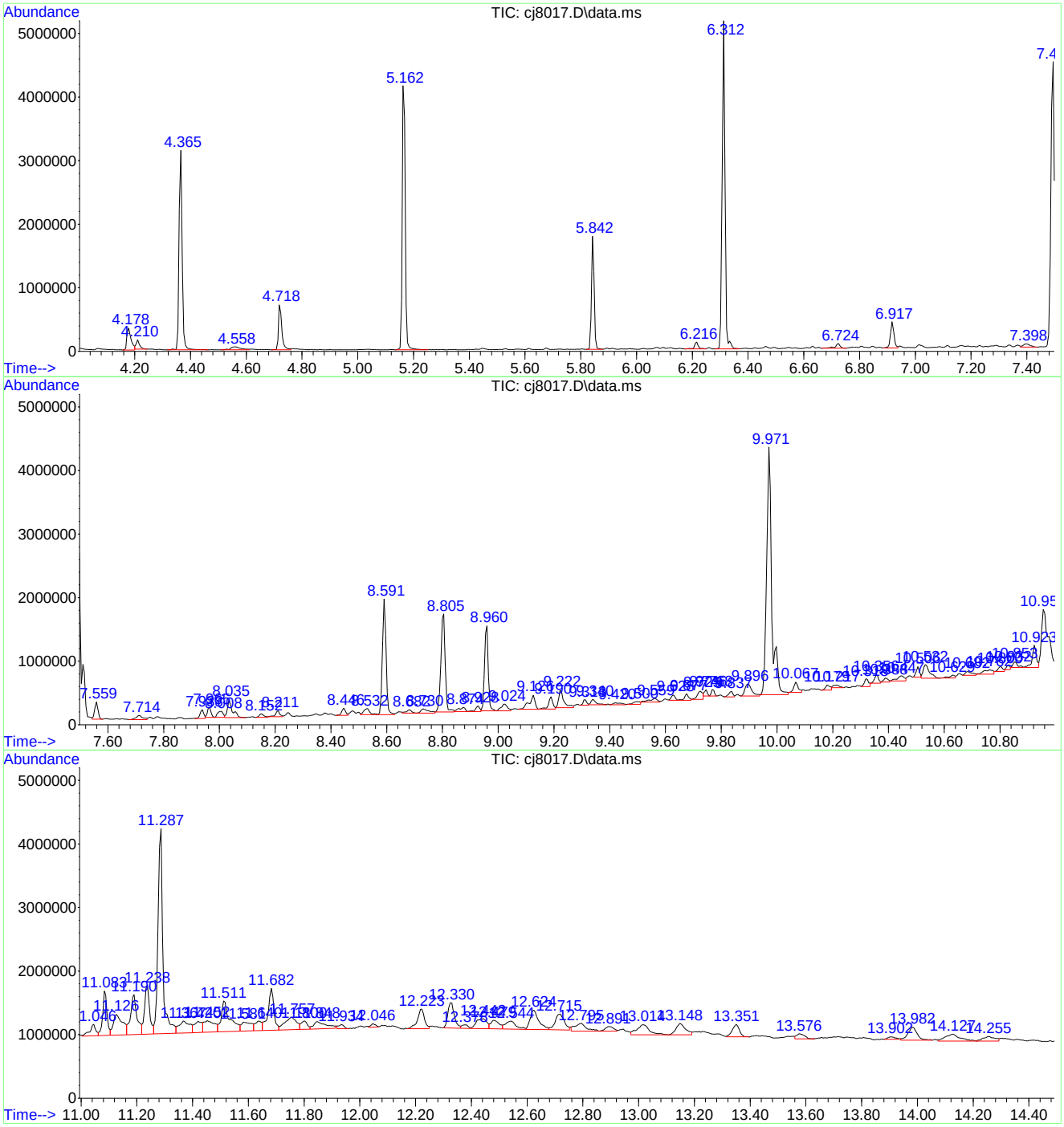

Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8017.D
Acq On : 01 Jul 2024 10:08 pm
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Sample : jd91204-11
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

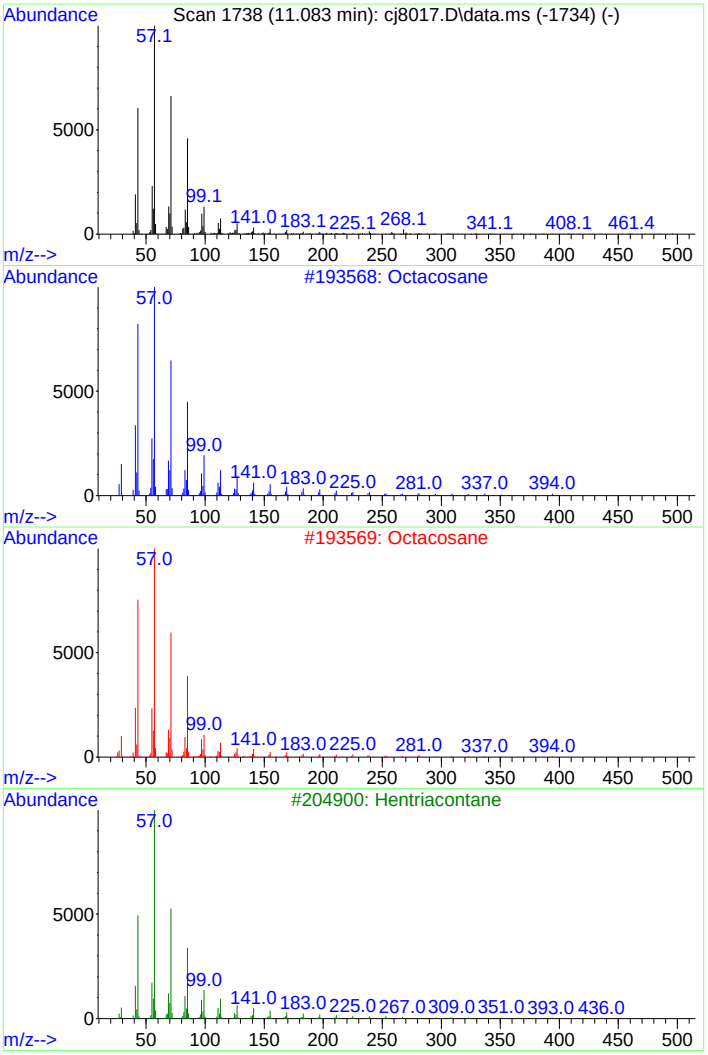
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

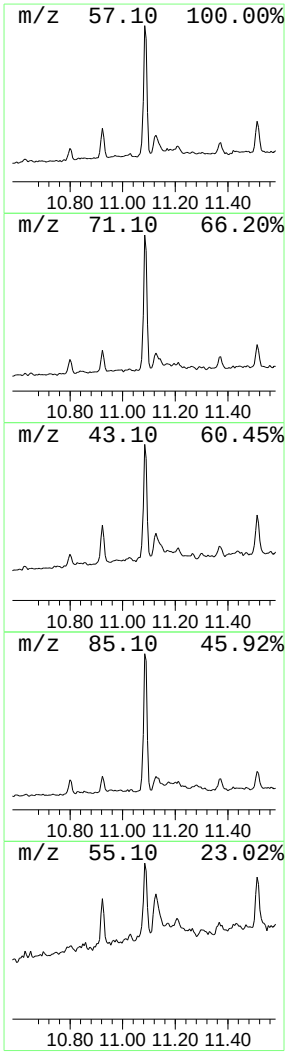
****

Peak Number 1 Alkane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.083	7.77 ppm	760030	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	98
2	Octacosane	394	C28H58	000630-02-4	98
3	Hentriacontane	437	C31H64	000630-04-6	96
4	Heptadecane	240	C17H36	000629-78-7	94
5	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8017.D
Acq On : 01 Jul 2024 10:08 pm
Operator : karimam
Sample : jd91204-11
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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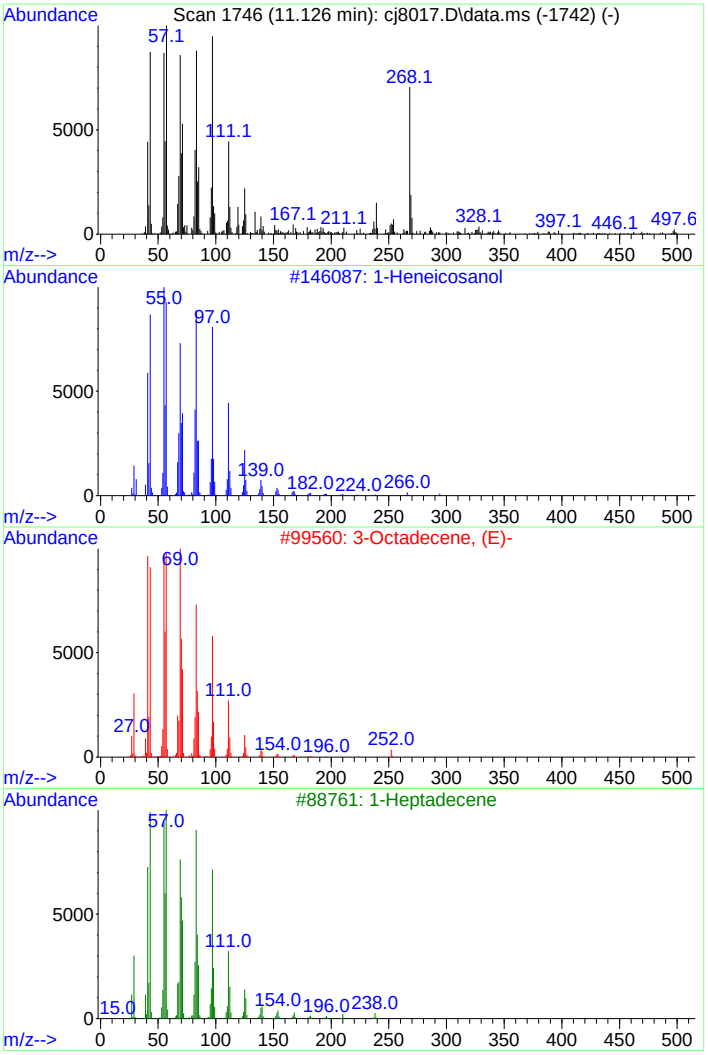
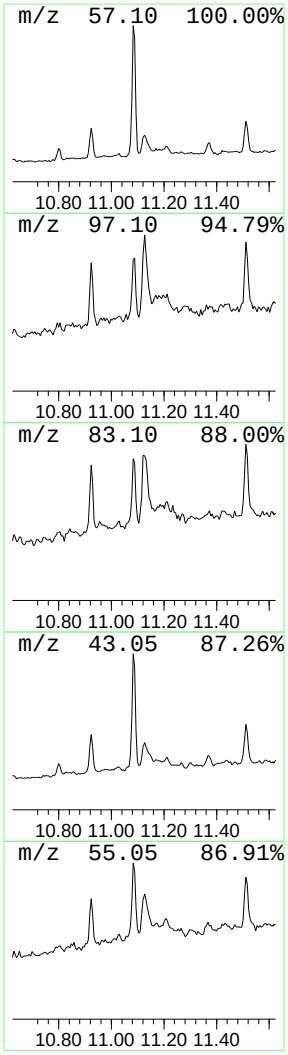
Peak Number 2 Unknown alcohol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.126	7.86 ppm	768764	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	93
2	3-Octadecene, (E)-	252	C18H36	007206-19-1	90
3	1-Heptadecene	238	C17H34	006765-39-5	89
4	Behenic alcohol	326	C22H46O	000661-19-8	87
5	1-Octacosanol	410	C28H58O	1000351-79-2	86





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8017.D
Acq On : 01 Jul 2024 10:08 pm
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Sample : jd91204-11
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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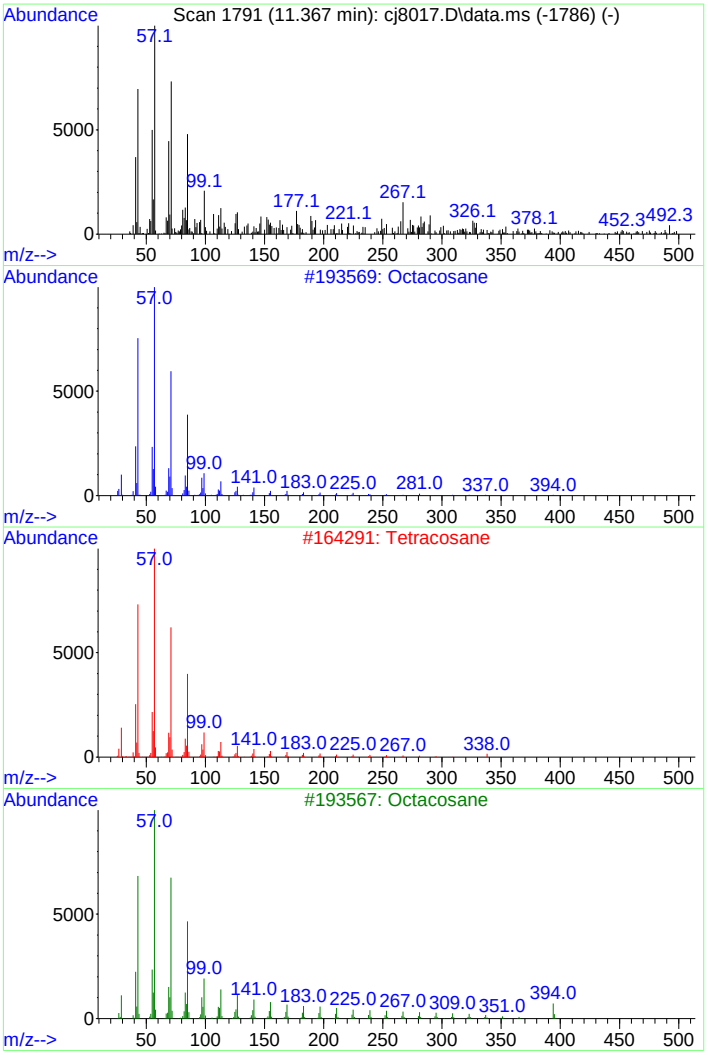
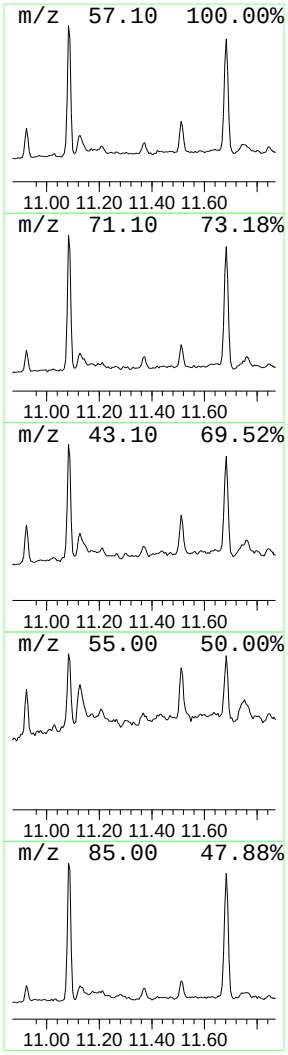
Peak Number 3 Alkane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.367	5.16 ppm	504936	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	90
2	Tetracosane	338	C24H50	000646-31-1	90
3	Octacosane	394	C28H58	000630-02-4	87
4	Docosane	310	C22H46	000629-97-0	87
5	Pentatriacontane	493	C35H72	000630-07-9	87





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8017.D
Acq On : 01 Jul 2024 10:08 pm
Operator : karimam
Sample : jd91204-11
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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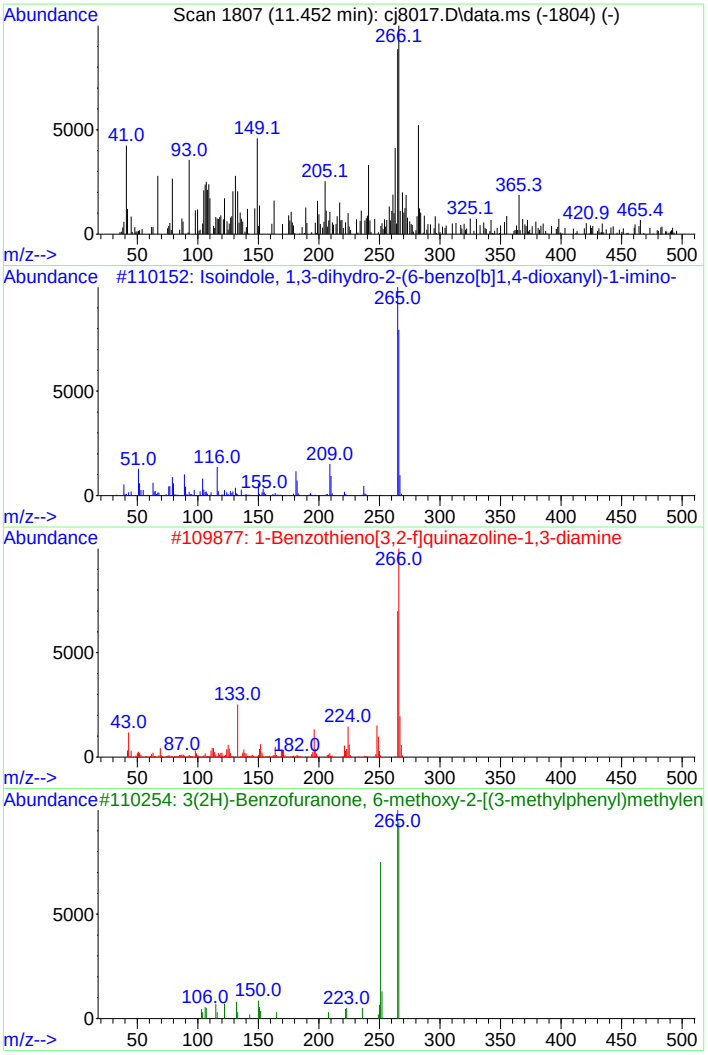
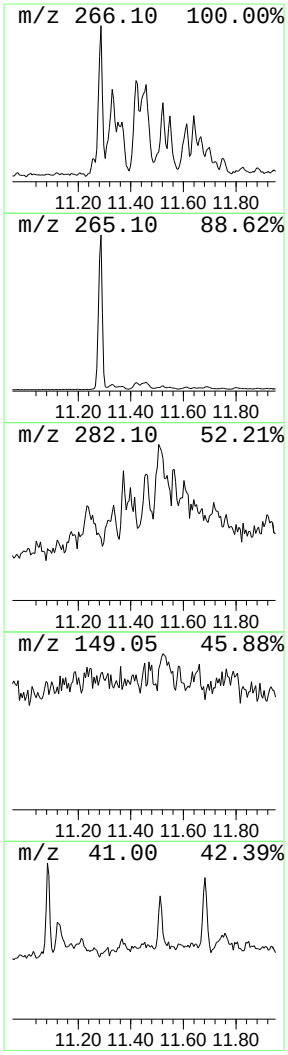
Peak Number 4 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.452	4.93 ppm	482507	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isoindole, 1,3-dihydro-2-(6-benz...	266	C16H14N2O2	312914-52-6	43
2	1-Benzothieno[3,2-f]quinazoline-...	266	C14H10N4S	065642-92-4	38
3	3(2H)-Benzofuranone, 6-methoxy-2...	266	C17H14O3	077764-86-4	38
4	2-Amino-3-cyano-5-[2-[3,4-methyl...	266	C14H10N4O2	1000252-72-1	38
5	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	38





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Acq On : 01 Jul 2024 10:08 pm
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Sample : jd91204-11
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
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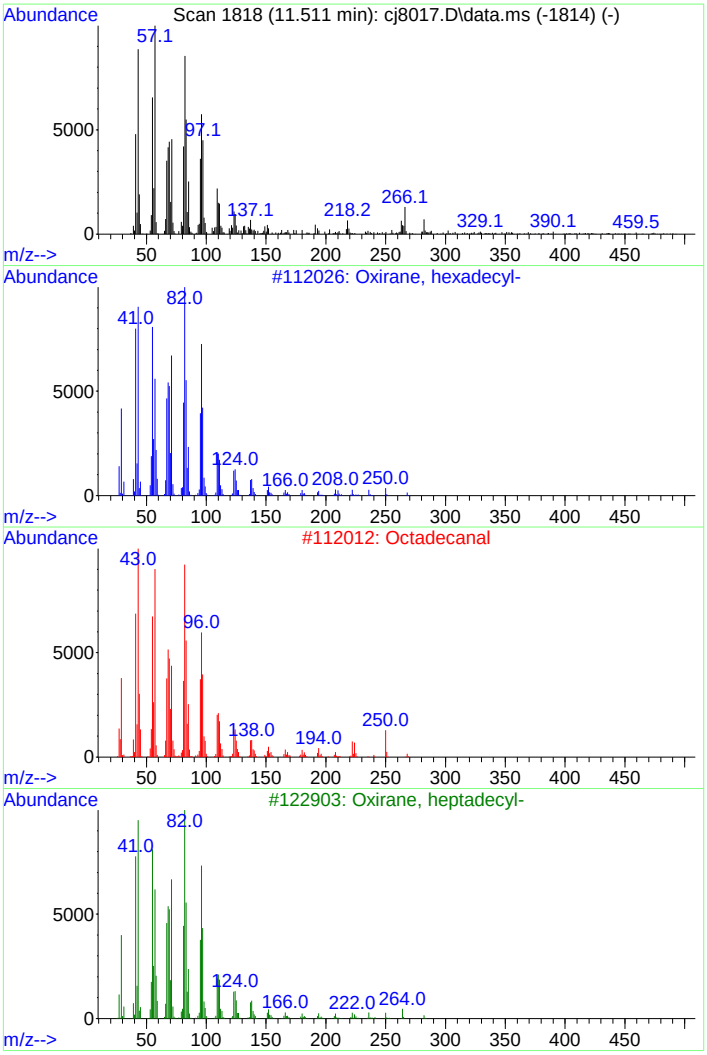
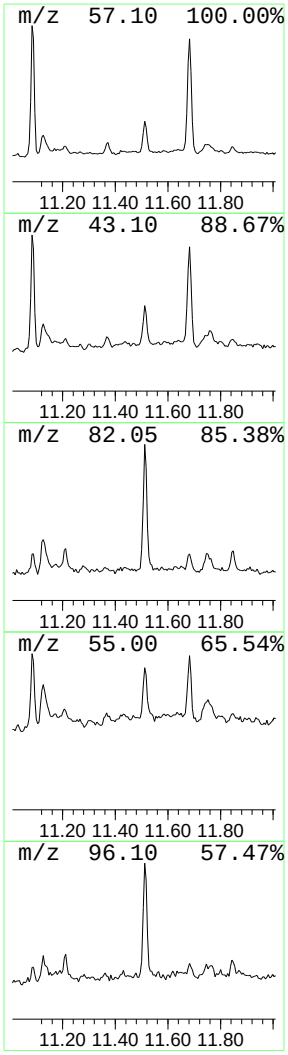
Peak Number 5 Unknown alcohol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.511	10.57 ppm	1033590	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
2	Octadecanal	268	C18H36O	000638-66-4	87
3	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	87
4	Octadecanal	268	C18H36O	000638-66-4	83
5	1,19-Eicosadiene	278	C20H38	014811-95-1	81





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
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Acq On : 01 Jul 2024 10:08 pm
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Sample : jd91204-11
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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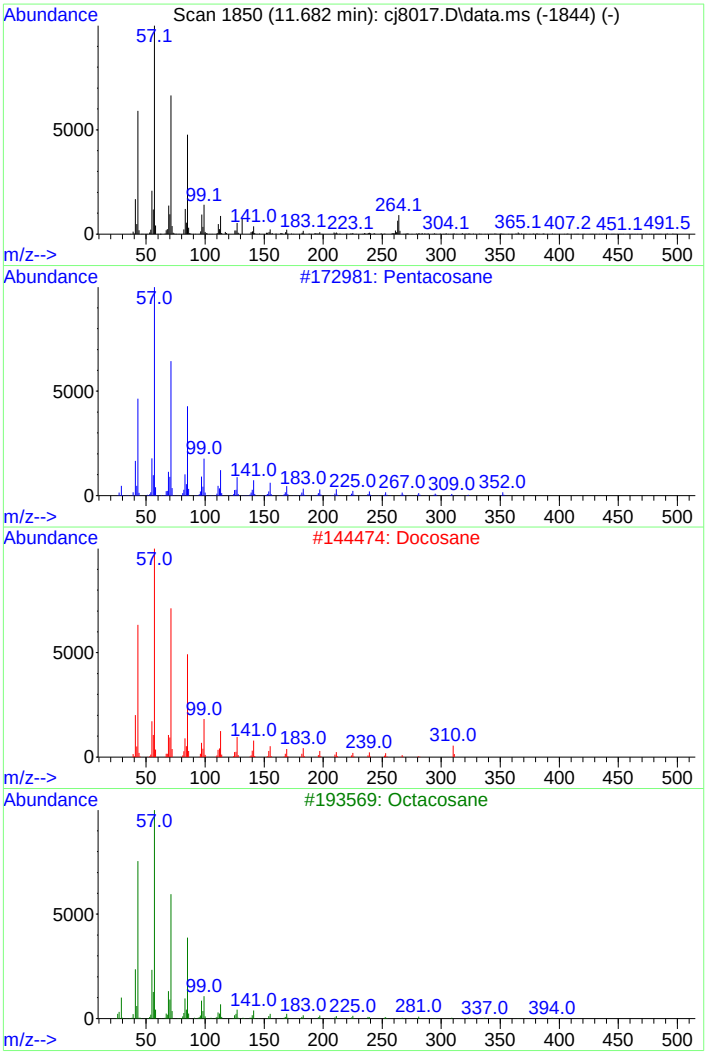
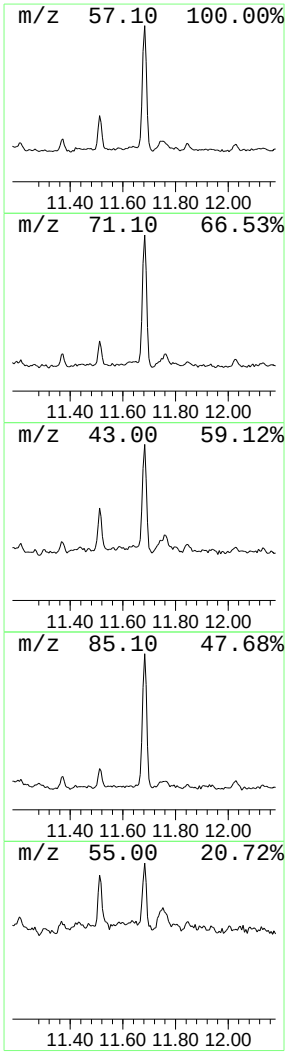
Peak Number 6 Alkane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.682	9.68 ppm	947232	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentacosane	352	C25H52	000629-99-2	95
2	Docosane	310	C22H46	000629-97-0	92
3	Octacosane	394	C28H58	000630-02-4	87
4	Octacosane	394	C28H58	000630-02-4	86
5	Tetracosane	338	C24H50	000646-31-1	83





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8017.D
Acq On : 01 Jul 2024 10:08 pm
Operator : karimam
Sample : jd91204-11
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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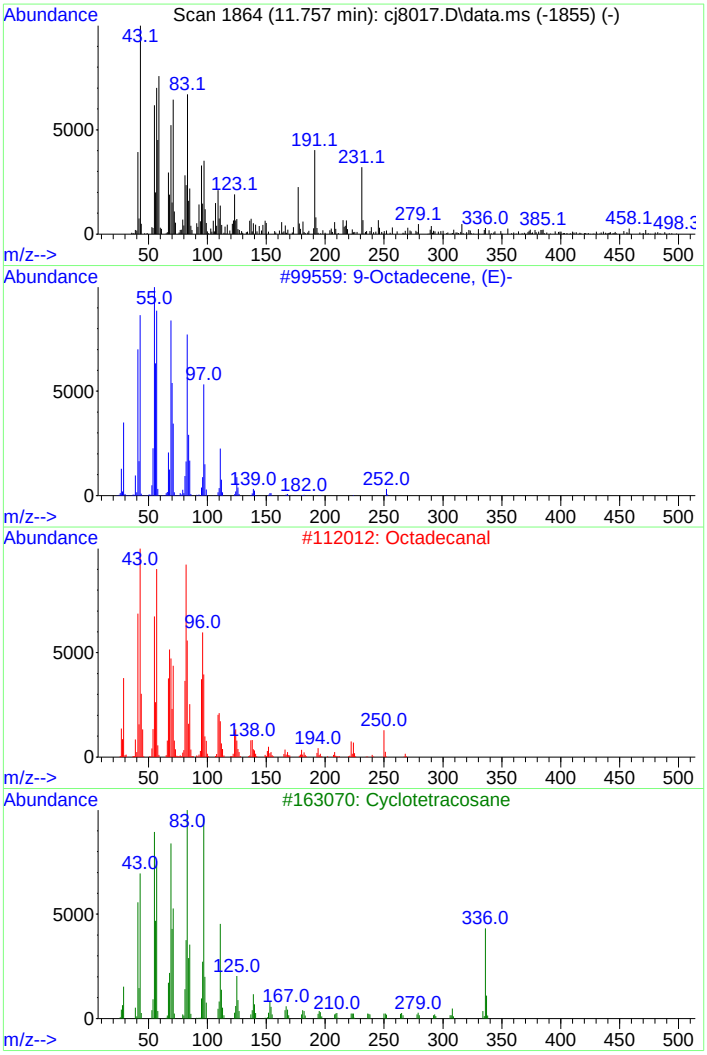
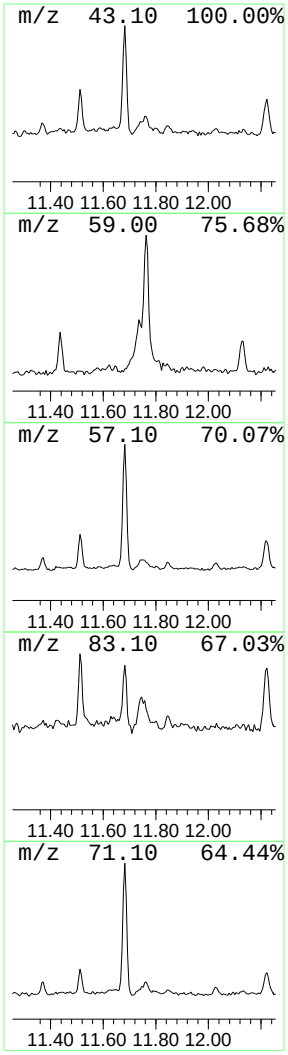
Peak Number 7 Unknown alcohol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.757	5.97 ppm	584040	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecene, (E)-	252	C18H36	007206-25-9	41
2	Octadecanal	268	C18H36O	000638-66-4	38
3	Cyclotetracosane	336	C24H48	000297-03-0	35
4	Ethyl tetradecyl ether	242	C16H34O	1000130-99-7	30
5	2-Heptadecenal	252	C17H32O	1000143-48-6	18





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Sample : jd91204-11
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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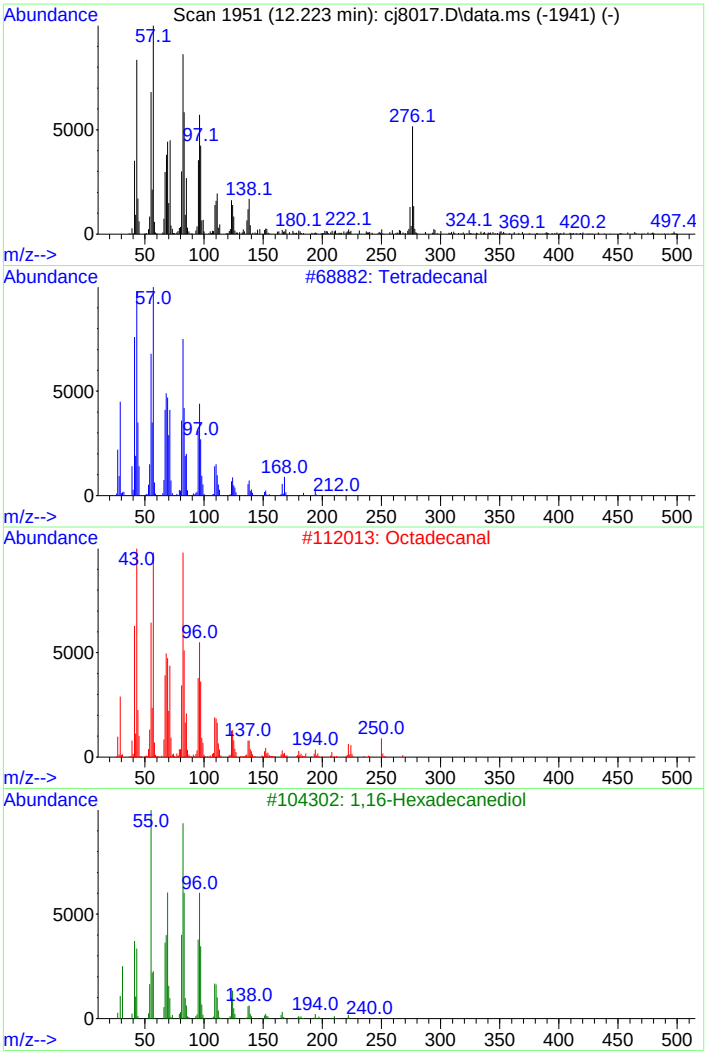
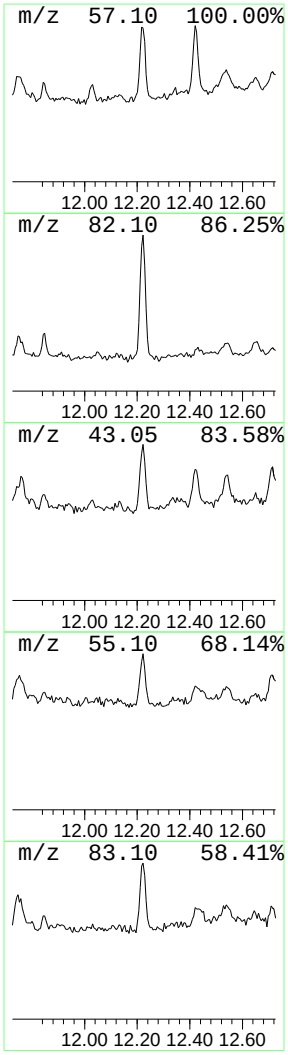
Peak Number 8 Unknown alcohol Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.223	5.70 ppm	557323	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecanal	212	C14H28O	000124-25-4	86
2	Octadecanal	268	C18H36O	000638-66-4	78
3	1,16-Hexadecanediol	258	C16H34O2	007735-42-4	58
4	Tetradecanal	212	C14H28O	000124-25-4	50
5	Tetradecanal	212	C14H28O	000124-25-4	43





Library Search Compound Report

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Acq On : 01 Jul 2024 10:08 pm
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Sample : jd91204-11
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
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TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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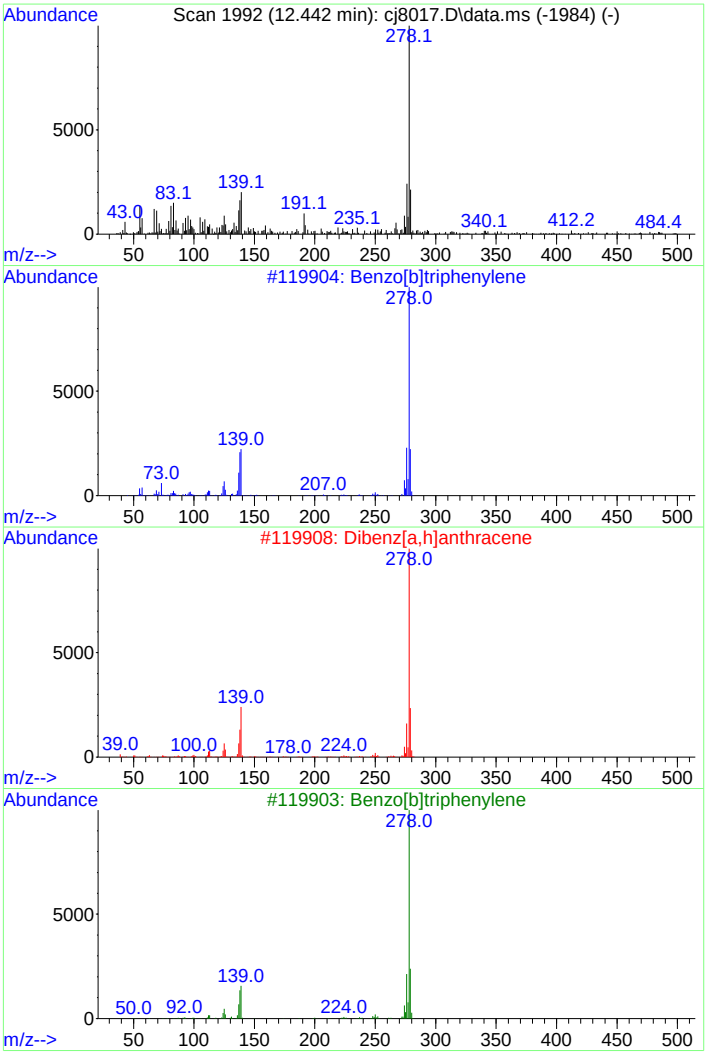
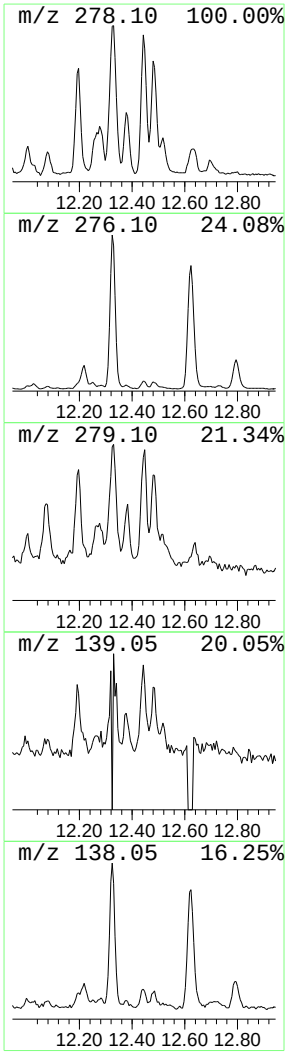
Peak Number 9 Unknown PAH substance Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.442	4.20 ppm	410896	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	93
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
4	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	93
5	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	93





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Data File : cj8017.D
Acq On : 01 Jul 2024 10:08 pm
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Sample : jd91204-11
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

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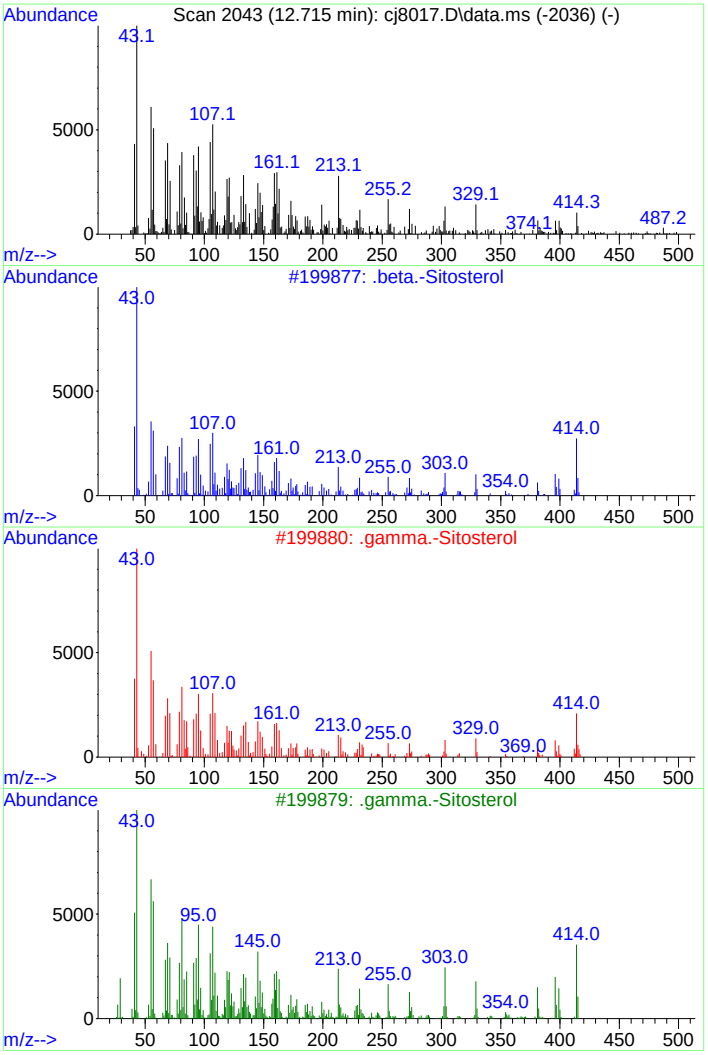
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

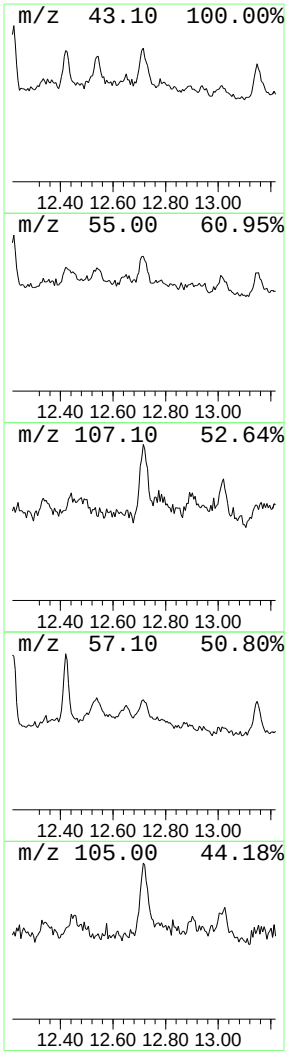
****

Peak Number 10 Sitosterol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.715	5.85 ppm	572408	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Sitosterol	414	C29H50O	000083-46-5	96
2	.gamma.-Sitosterol	414	C29H50O	000083-47-6	95
3	.gamma.-Sitosterol	414	C29H50O	000083-47-6	91
4	17-(1,5-Dimethylhexyl)-10,13-dim...	414	C29H50O	1000210-86-9	74
5	.beta.-Sitosterol	414	C29H50O	000083-46-5	53





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ALS Vial : 33 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

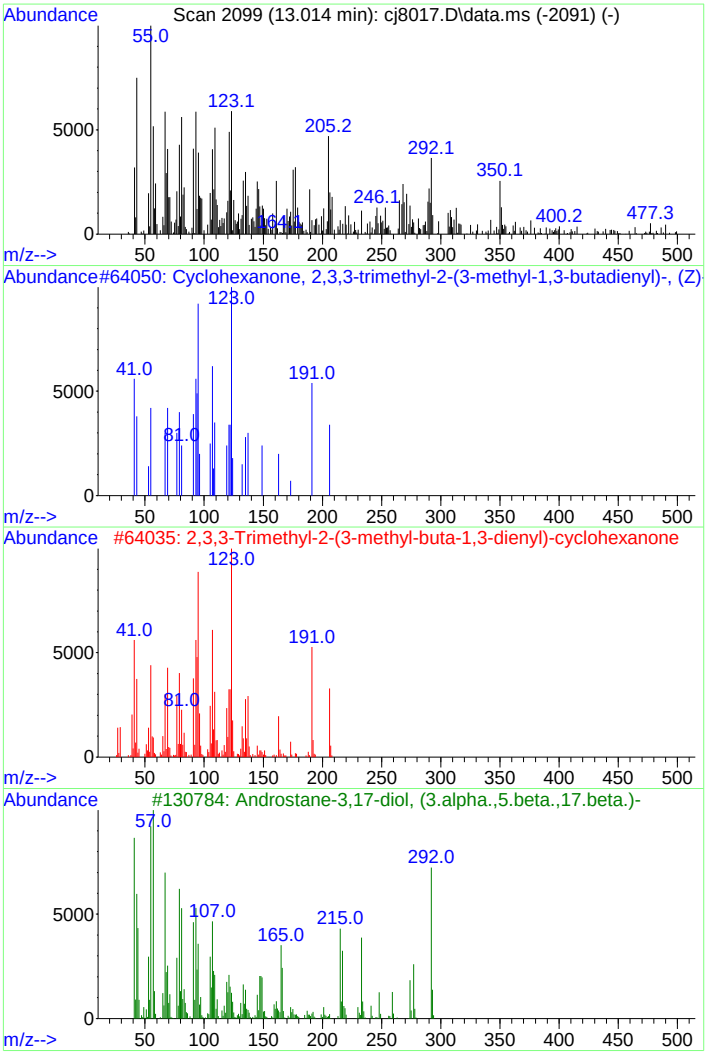
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

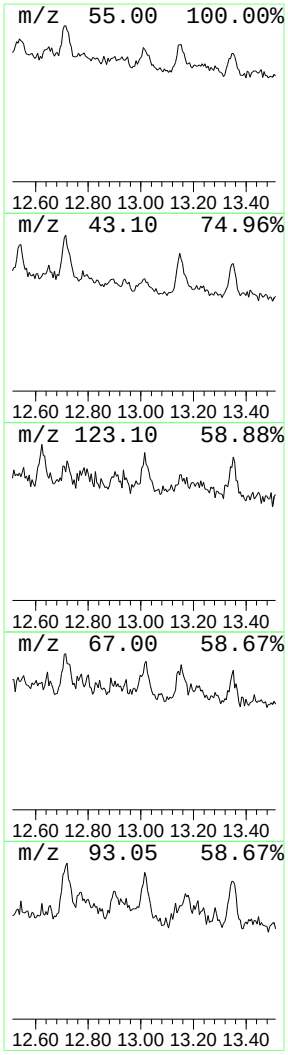
****

Peak Number 11 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.014	5.01 ppm	489854	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanone, 2,3,3-trimethyl-2...	206	C14H22O	069296-90-8	42
2	2,3,3-Trimethyl-2-(3-methyl-buta...	206	C14H22O	1000193-60-6	30
3	Androstane-3,17-diol, (3.alpha.,...	292	C19H32O2	001851-23-6	25
4	Methyl 9,10-methylene-octadec-9-...	308	C20H36O2	1000336-40-1	25
5	1-Chloro-1-ethyl-3-methyl-1-germ...	206	C7H13ClGe	026311-76-2	18





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8017.D
Acq On : 01 Jul 2024 10:08 pm
Operator : karimam
Sample : jd91204-11
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

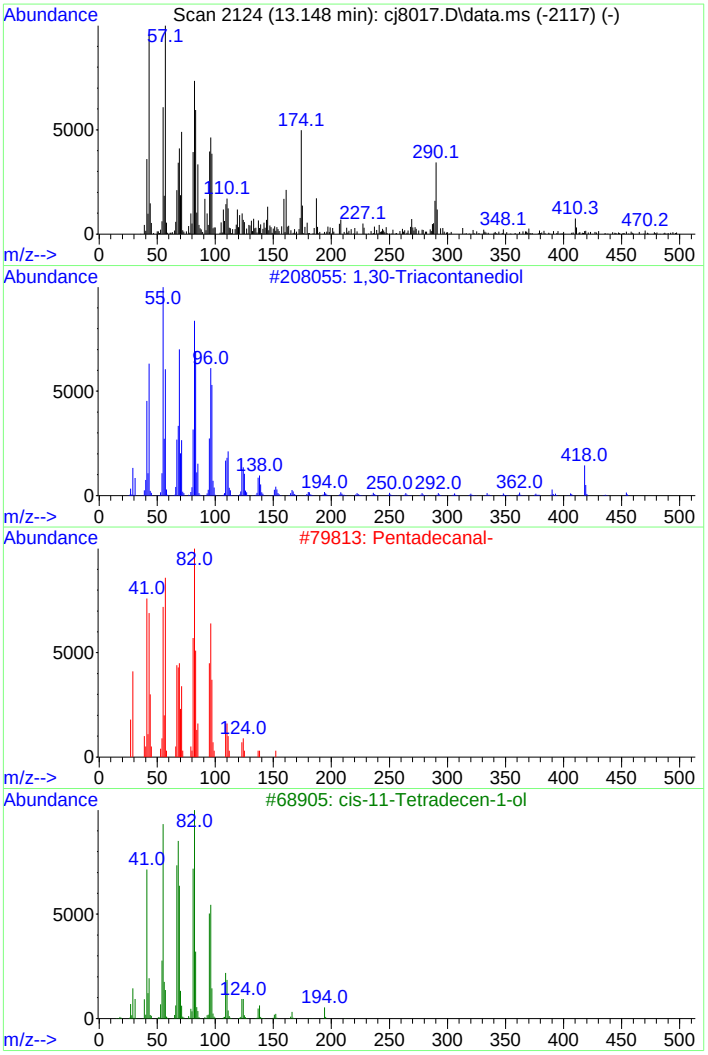
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

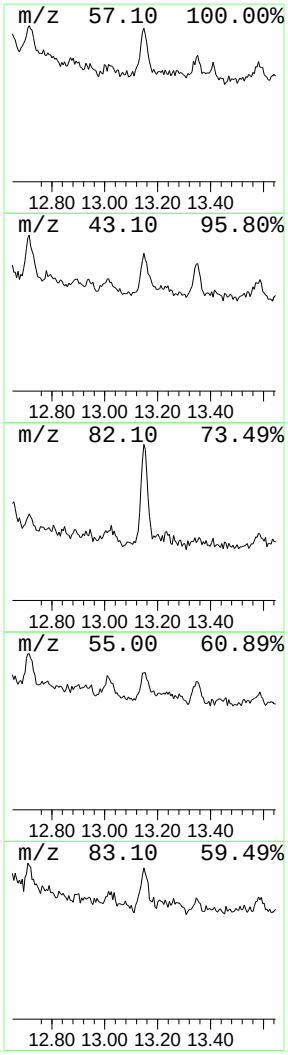
****

Peak Number 12 Unknown alcohol Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.148	4.32 ppm	422802	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,30-Triacontanediol	454	C30H62O2	036645-68-8	52
2	Pentadecanal-	226	C15H30O	002765-11-9	52
3	cis-11-Tetradecen-1-ol	212	C14H28O	034010-15-6	49
4	1,19-Eicosadiene	278	C20H38	014811-95-1	49
5	Oleyl alcohol, methyl ether	282	C19H38O	1000352-68-0	46





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8017.D
Acq On : 01 Jul 2024 10:08 pm
Operator : karimam
Sample : jd91204-11
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

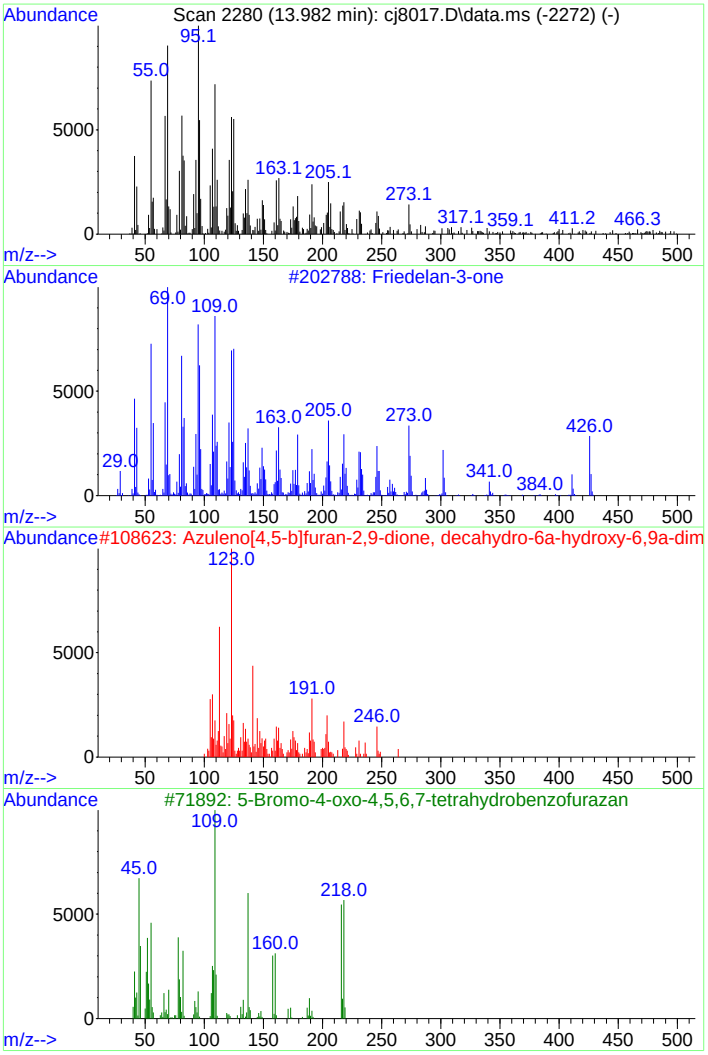
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

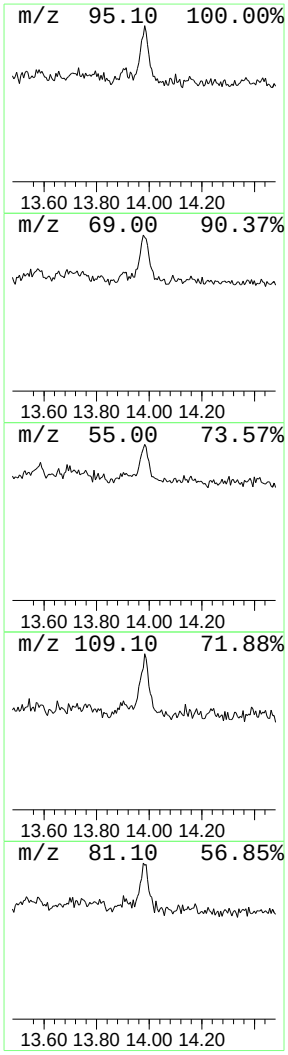
****

Peak Number 13 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.982	4.88 ppm	477494	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Friedelan-3-one	426	C30H50O	000559-74-0	90
2	Azuleno[4,5-b]furan-2,9-dione, d...	264	C15H20O4	002571-81-5	64
3	5-Bromo-4-oxo-4,5,6,7-tetrahydro...	216	C6H5BrN2O2	300574-36-1	53
4	Bicyclo[3.1.1]heptan-3-one, 2-(b...	192	C13H20O	1000163-96-1	45
5	(-)-Neoclovene-(I), dihydro-	206	C15H26	1000152-82-1	44





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8017.D
Acq On : 01 Jul 2024 10:08 pm
Operator : karimam
Sample : jd91204-11
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

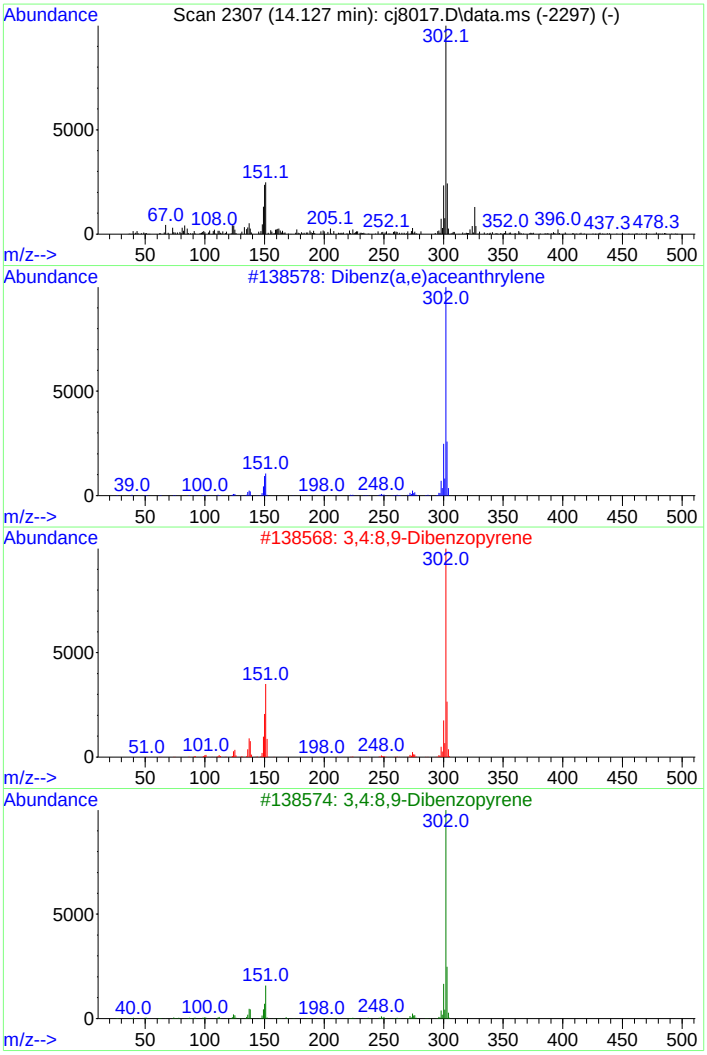
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

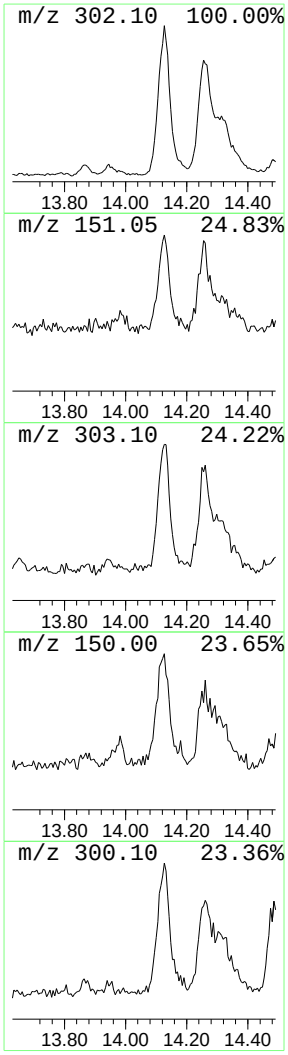
****

Peak Number 14 Dibenzopyrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.127	4.24 ppm	414330	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	89
2	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	70
3	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	70
4	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	70
5	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	64





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8017.D
Acq On : 01 Jul 2024 10:08 pm
Operator : karimam
Sample : jd91204-11
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
Alkane	11.083	7.8	ppm	760030	11	11.287	3912470	40.0
Unknown alcohol	11.126	7.9	ppm	768764	11	11.287	3912470	40.0
Alkane	11.367	5.2	ppm	504936	11	11.287	3912470	40.0
Unknown	11.452	4.9	ppm	482507	11	11.287	3912470	40.0
Unknown alcohol	11.511	10.6	ppm	1033590	11	11.287	3912470	40.0
Alkane	11.682	9.7	ppm	947232	11	11.287	3912470	40.0
Unknown alcohol	11.757	6.0	ppm	584040	11	11.287	3912470	40.0
Unknown alcohol	12.223	5.7	ppm	557323	11	11.287	3912470	40.0
Unknown PAH sub...	12.442	4.2	ppm	410896	11	11.287	3912470	40.0
Sitosterol	12.715	5.8	ppm	572408	11	11.287	3912470	40.0
Unknown	13.014	5.0	ppm	489854	11	11.287	3912470	40.0
Unknown alcohol	13.148	4.3	ppm	422802	11	11.287	3912470	40.0
Unknown	13.982	4.9	ppm	477494	11	11.287	3912470	40.0
Dibenzopyrene	14.127	4.2	ppm	414330	11	11.287	3912470	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 07/02/24 05:10

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12 Inst : GCMSCJ
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 02 02:06:48 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

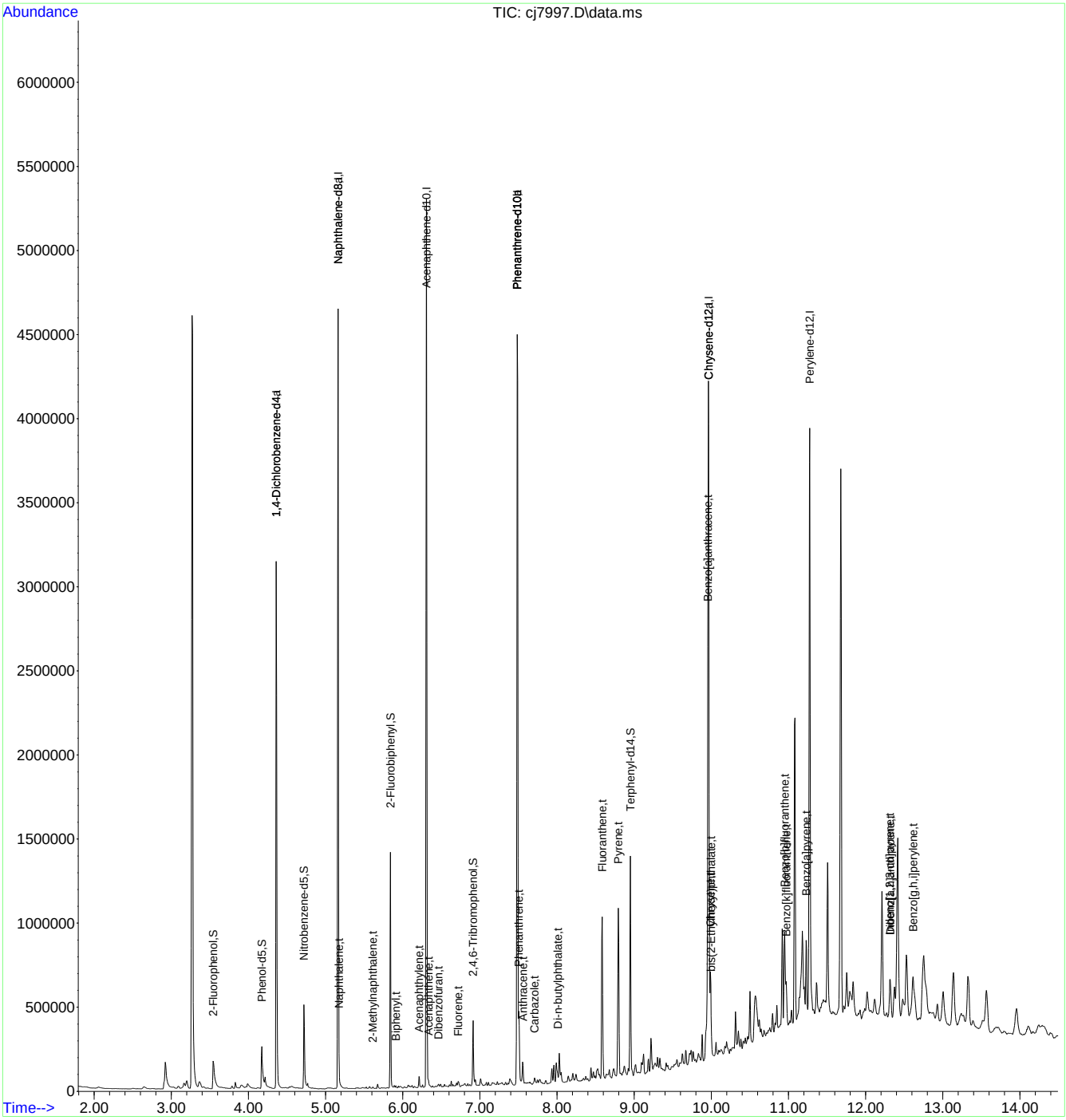
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.360	152	406313	40.00	ppm	0.00
24) Naphthalene-d8	5.162	136	1518010	40.00	ppm	0.00
46) Acenaphthene-d10	6.307	164	864404	40.00	ppm	0.00
69) Phenanthrene-d10	7.484	188	1583758	40.00	ppm	0.00
84) Chrysene-d12	9.965	240	1234440	40.00	ppm	0.00
93) Perylene-d12	11.276	264	1279305	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.360	152	406313	40.00	ppm	0.00
105) Phenanthrene-d10a	7.484	188	1583758	40.00	ppm	0.00
107) Naphthalene-d8a	5.162	136	1518010	40.00	ppm	0.00
109) Phenanthrene-d10b	7.484	188	1583758	40.00	ppm	# 0.00
112) Chrysene-d12a	9.965	240	1234440	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.542	112	88503	7.58	ppm	0.02
Spiked Amount 50.000			Recovery = 15.16%			
8) Phenol-d5	4.173	99	126590	8.40	ppm	0.02
Spiked Amount 50.000			Recovery = 16.80%			
25) Nitrobenzene-d5	4.718	82	157866	10.16	ppm	0.00
Spiked Amount 50.000			Recovery = 20.32%			
51) 2-Fluorobiphenyl	5.842	172	345810	12.71	ppm	0.00
Spiked Amount 50.000			Recovery = 25.42%			
74) 2,4,6-Tribromophenol	6.911	330	37597	10.83	ppm	0.00
Spiked Amount 50.000			Recovery = 21.66%			
87) Terphenyl-d14	8.949	244	391013	12.82	ppm	0.00
Spiked Amount 50.000			Recovery = 25.64%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
38) Naphthalene	5.173	128	4036	0.1110	ppm	96
44) 2-Methylnaphthalene	5.612	141	1817	0.0843	ppm	93
53) Biphenyl	5.911	154	1585	0.0534	ppm	97
56) Acenaphthylene	6.211	152	23677	0.7062	ppm	99
59) Acenaphthene	6.334	153	7250m	0.3041	ppm	
62) Dibenzofuran	6.462	168	3684	0.1113	ppm	97
66) Fluorene	6.719	166	8619m	0.3298	ppm	
78) Phenanthrene	7.505	178	141565	3.6986	ppm	100
79) Anthracene	7.559	178	36804	0.9603	ppm	96
80) Carbazole	7.708	167	11114	0.3112	ppm	98
81) Di-n-butylphthalate	8.008	149	6257	0.1418	ppm	98
82) Fluoranthene	8.586	202	378746	9.1403	ppm	100
86) Pyrene	8.794	202	376063	8.9578	ppm	99
89) Benzo[a]anthracene	9.955	228	192107	4.8401	ppm	94
91) Chrysene	9.987	228	168531	4.6022	ppm	97
92) bis(2-Ethylhexyl)phtha...	9.998	149	10887	0.3924	ppm	98
95) Benzo[b]fluoranthene	10.950	252	257450m	6.6617	ppm	
96) Benzo[k]fluoranthene	10.971	252	64025m	1.8411	ppm	
97) Benzo[a]pyrene	11.228	252	163106	5.0983	ppm	98
98) Indeno[1,2,3-cd]pyrene	12.314	276	113560	2.9362	ppm	90
100) Dibenz[a,h]anthracene	12.319	278	27659	0.8950	ppm	78
102) Benzo[g,h,i]perylene	12.613	276	109931	3.6576	ppm	96

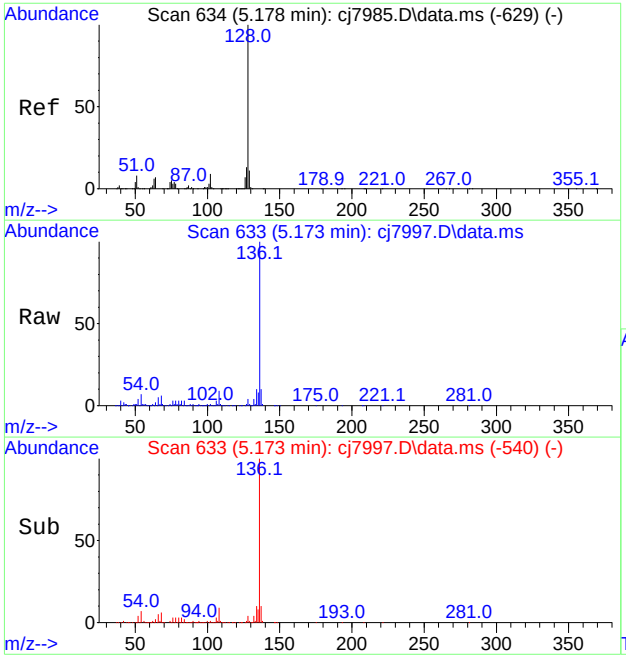
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12 Inst : GCMSCJ
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 02 02:06:48 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

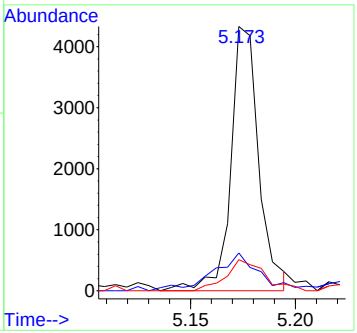


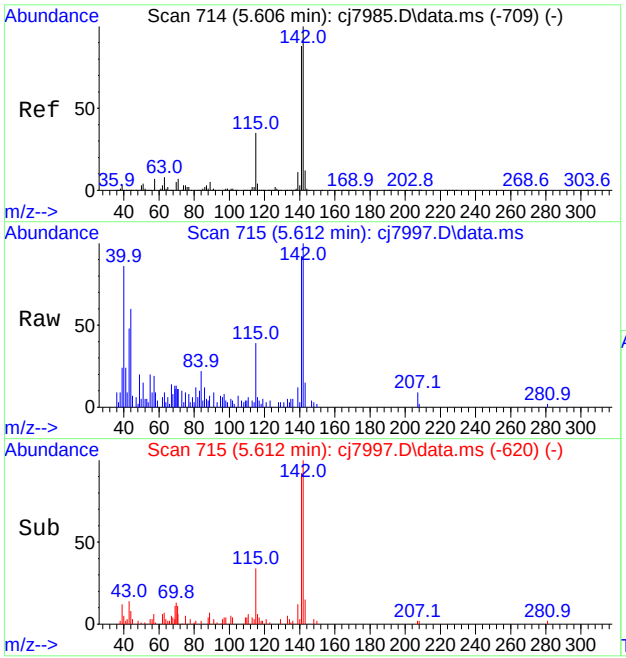


#38
Naphthalene
Concen: 0.1110 ppm
RT: 5.173 min Scan# 633
Delta R.T. -0.005 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:128 Resp: 4036

Ion	Ratio	Lower	Upper
128	100		
129	12.0	0.0	41.3
127	10.9	0.0	43.5

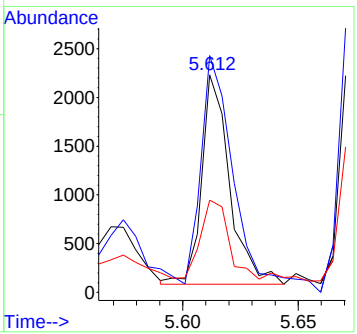


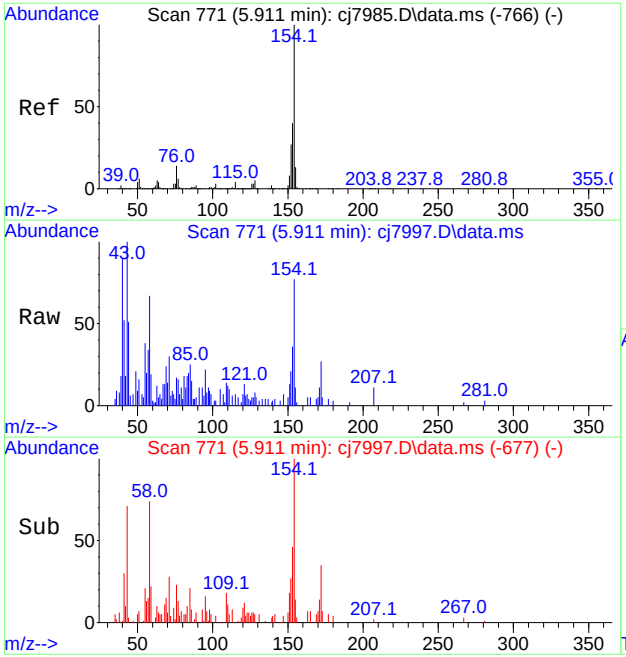


#44
2-Methylnaphthalene
Concen: 0.0843 ppm
RT: 5.612 min Scan# 715
Delta R.T. 0.006 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:141 Resp: 1817

Ion	Ratio	Lower	Upper
141	100		
142	104.9	83.7	143.7
115	36.2	9.3	69.3

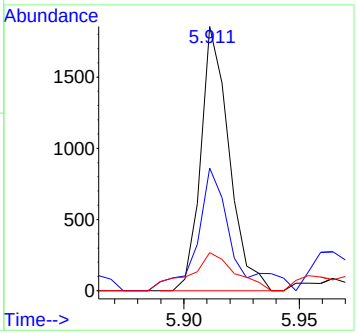


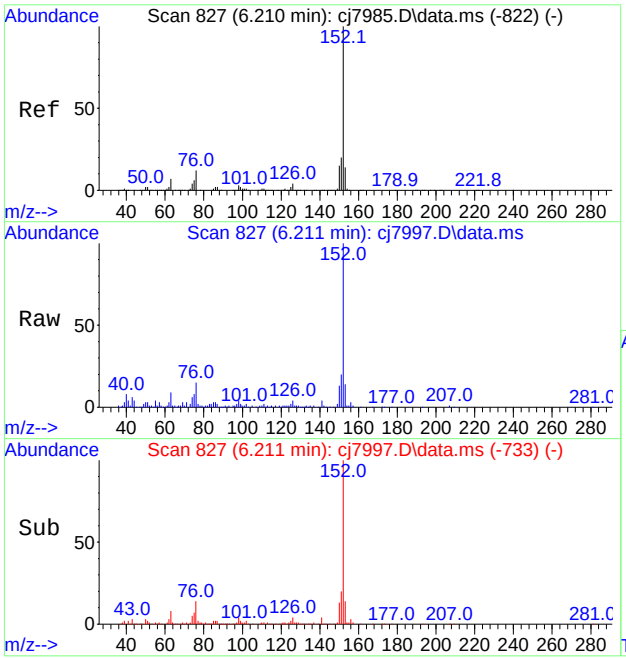


#53
Biphenyl
Concen: 0.0534 ppm
RT: 5.911 min Scan# 771
Delta R.T. 0.000 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:154 Resp: 1585

Ion	Ratio	Lower	Upper
154	100		
153	42.4	10.3	70.3
155	12.7	0.0	42.9

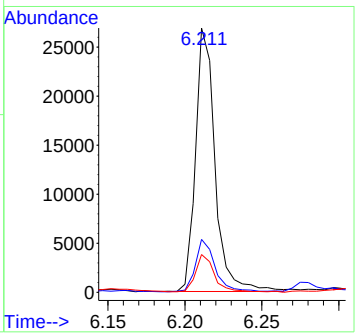


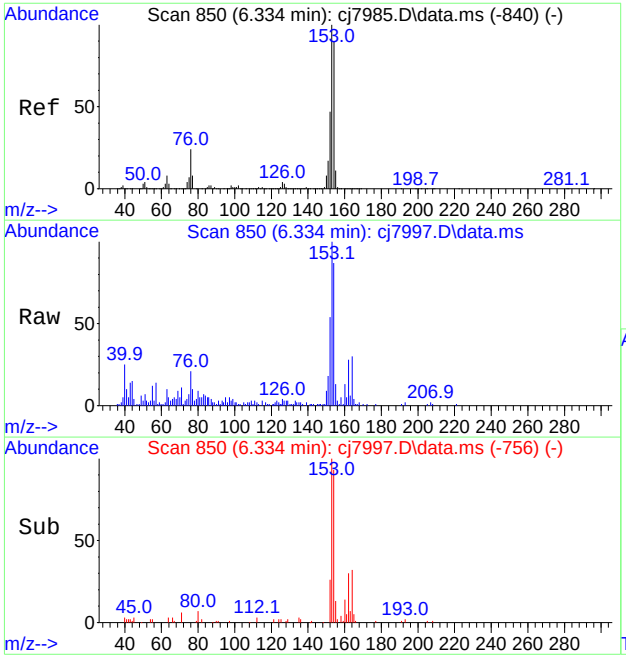


#56
Acenaphthylene
Concen: 0.7062 ppm
RT: 6.211 min Scan# 827
Delta R.T. 0.000 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:152 Resp: 23677

Ion	Ratio	Lower	Upper
152	100		
151	19.8	0.0	50.2
153	14.2	0.0	43.5

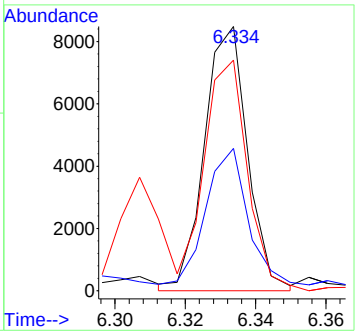


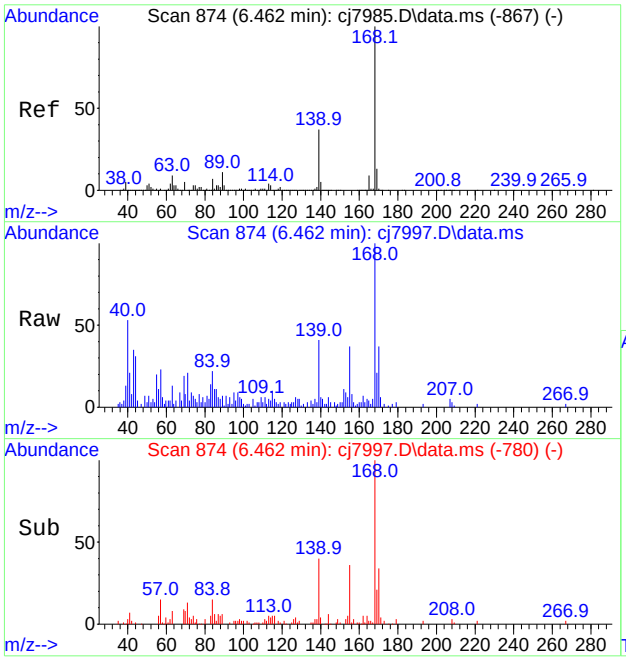


#59
Acenaphthene
Concen: 0.3041 ppm m
RT: 6.334 min Scan# 850
Delta R.T. 0.000 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:153 Resp: 7250

Ion	Ratio	Lower	Upper
153	100		
152	53.9	16.9	76.9
154	87.3	56.2	116.2

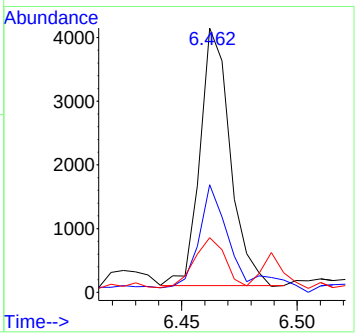


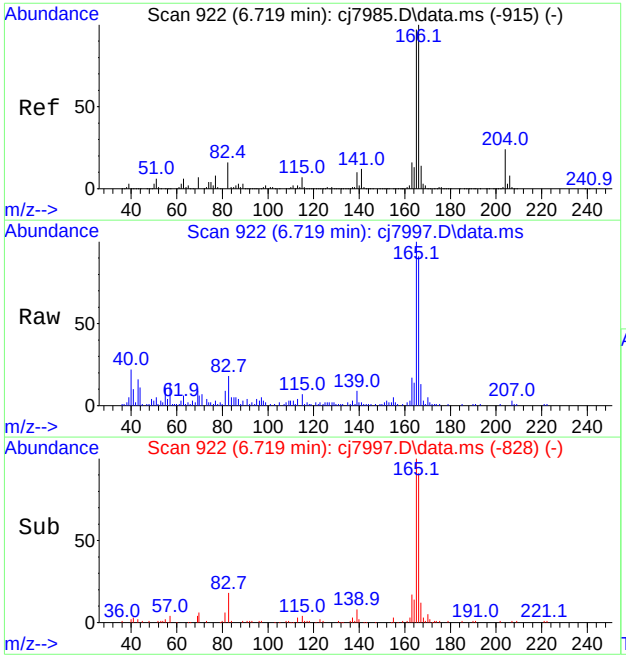


#62
Dibenzofuran
Concen: 0.1113 ppm
RT: 6.462 min Scan# 874
Delta R.T. 0.000 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:168 Resp: 3684

Ion	Ratio	Lower	Upper
168	100		
139	38.5	7.3	67.3
169	16.5	0.0	43.4

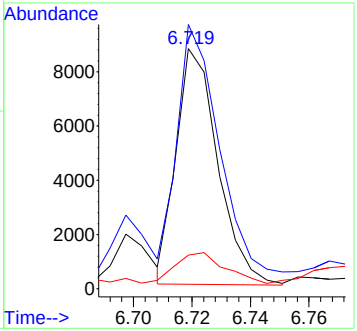


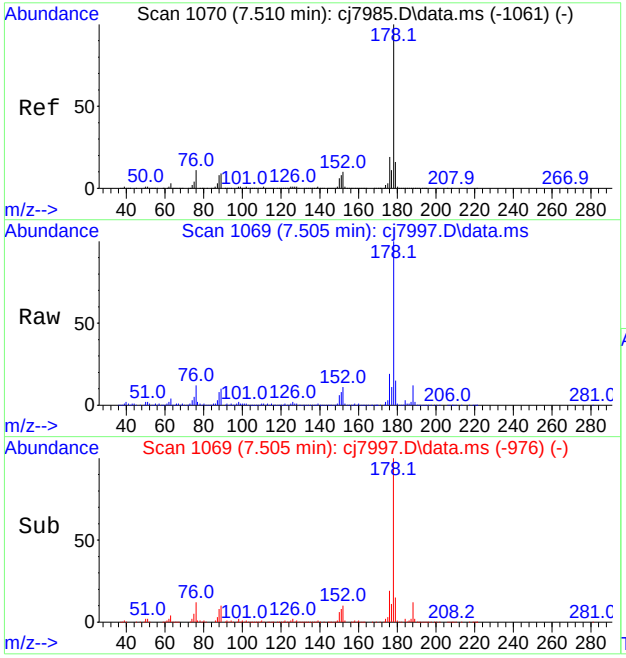


#66
Fluorene
Concen: 0.3298 ppm m
RT: 6.719 min Scan# 922
Delta R.T. 0.000 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:166 Resp: 8619

Ion	Ratio	Lower	Upper
166	100		
165	110.1	67.2	127.2
167	14.0	0.0	43.8

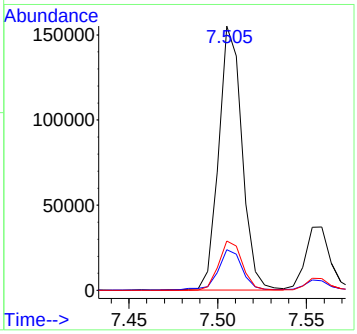


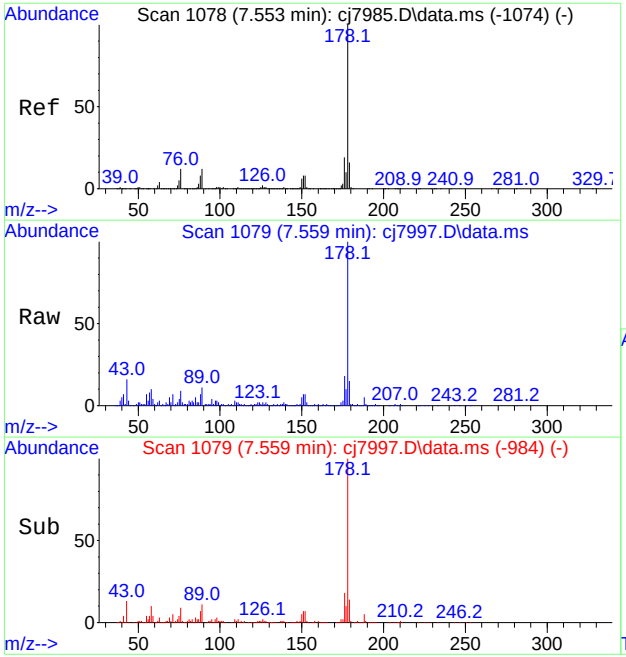


#78
Phenanthrene
Concen: 3.6986 ppm
RT: 7.505 min Scan# 1069
Delta R.T. -0.005 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:178 Resp: 141565

Ion	Ratio	Lower	Upper
178	100		
179	15.2	0.0	45.5
176	18.7	0.0	48.7

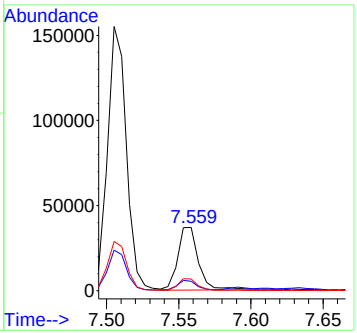


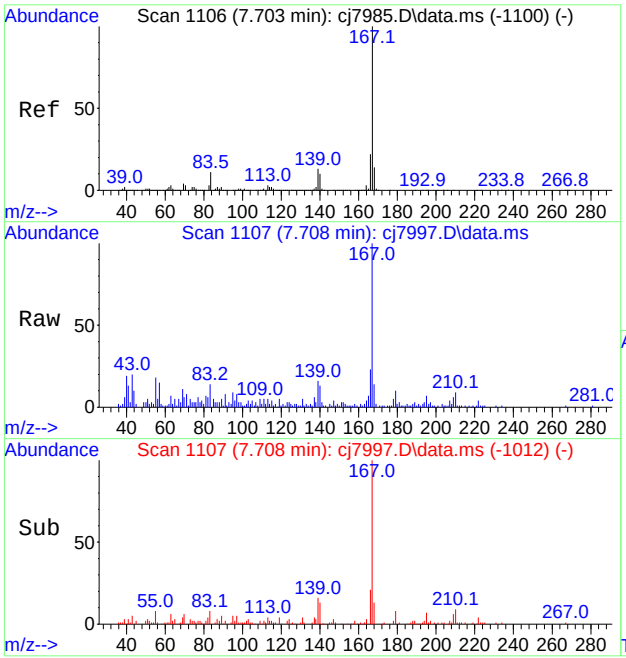


#79
Anthracene
Concen: 0.9603 ppm
RT: 7.559 min Scan# 1079
Delta R.T. 0.006 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:178 Resp: 36804

Ion	Ratio	Lower	Upper
178	100		
179	12.8	0.0	45.9
176	18.2	0.0	48.8

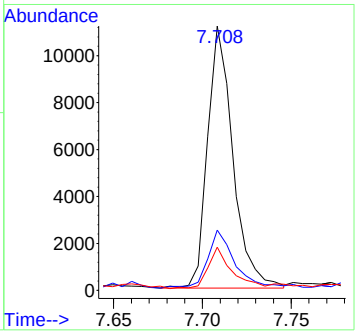


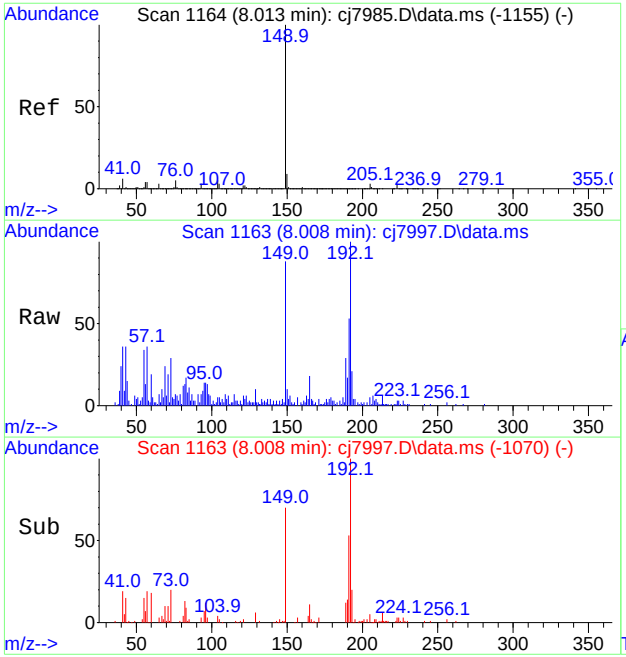


#80
Carbazole
Concen: 0.3112 ppm
RT: 7.708 min Scan# 1107
Delta R.T. 0.006 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:167 Resp: 11114

Ion	Ratio	Lower	Upper
167	100		
166	21.8	0.0	51.7
139	14.5	0.0	42.8

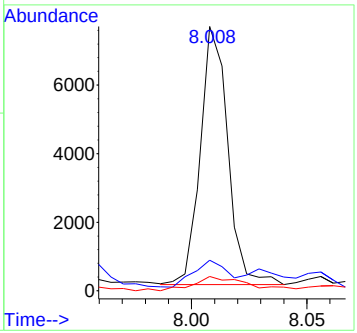


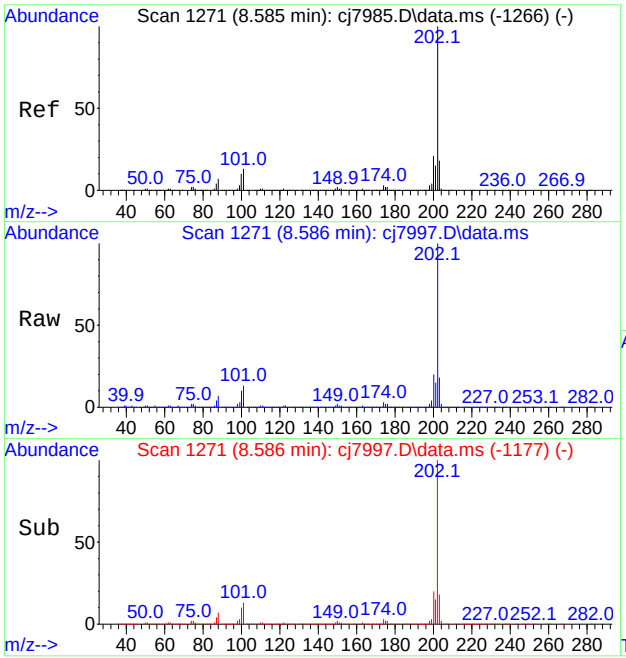


#81
Di-n-butylphthalate
Concen: 0.1418 ppm
RT: 8.008 min Scan# 1163
Delta R.T. -0.005 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:149 Resp: 6257

Ion	Ratio	Lower	Upper
149	100		
150	8.4	0.0	39.2
104	4.9	0.0	34.6

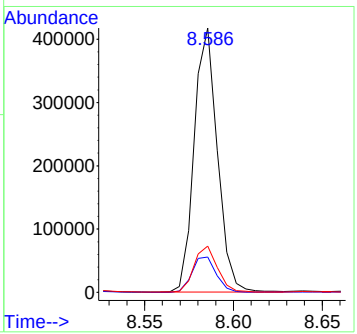


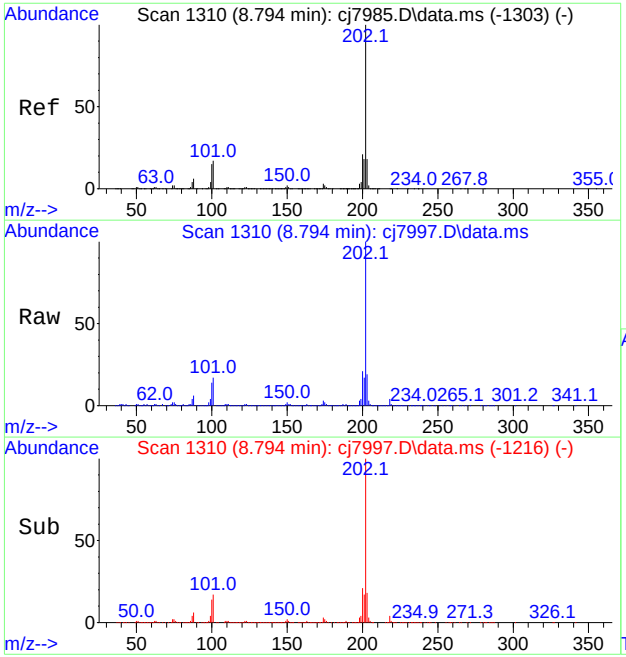


#82
Fluoranthene
Concen: 9.1403 ppm
RT: 8.586 min Scan# 1271
Delta R.T. 0.000 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:202 Resp: 378746

Ion	Ratio	Lower	Upper
202	100		
101	13.3	0.0	42.9
203	17.5	0.0	47.5

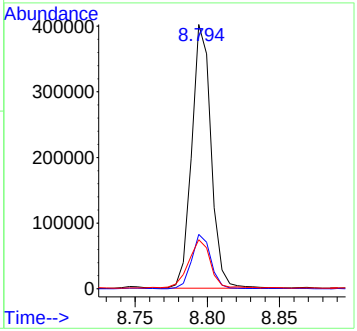


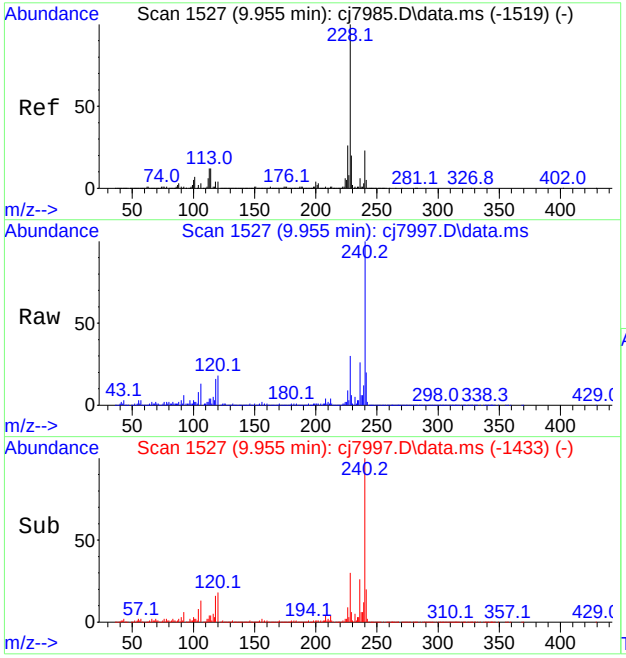


#86
Pyrene
Concen: 8.9578 ppm
RT: 8.794 min Scan# 1310
Delta R.T. 0.000 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:202 Resp: 376063

Ion	Ratio	Lower	Upper
202	100		
200	20.6	0.0	51.0
203	18.2	0.0	48.5

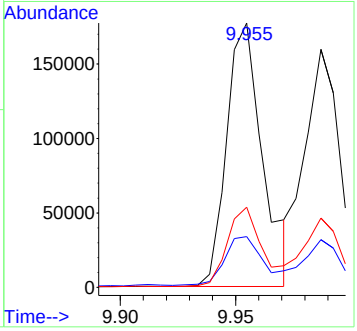


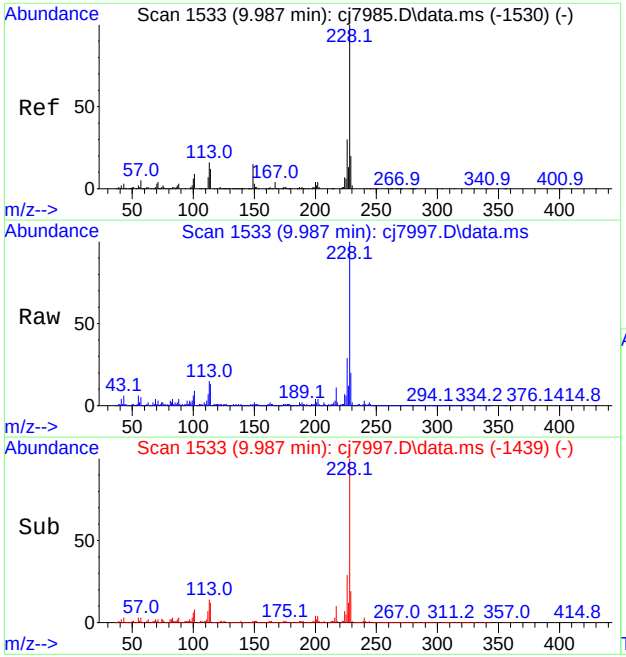


#89
Benzo[a]anthracene
Concen: 4.8401 ppm
RT: 9.955 min Scan# 1527
Delta R.T. 0.000 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:228 Resp: 192107

Ion	Ratio	Lower	Upper
228	100		
229	18.0	0.0	49.9
226	30.0	0.0	56.5

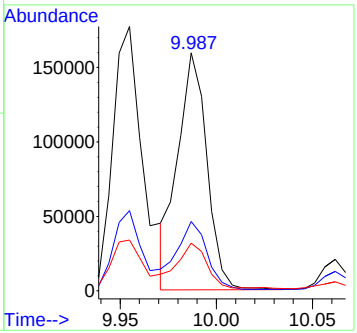


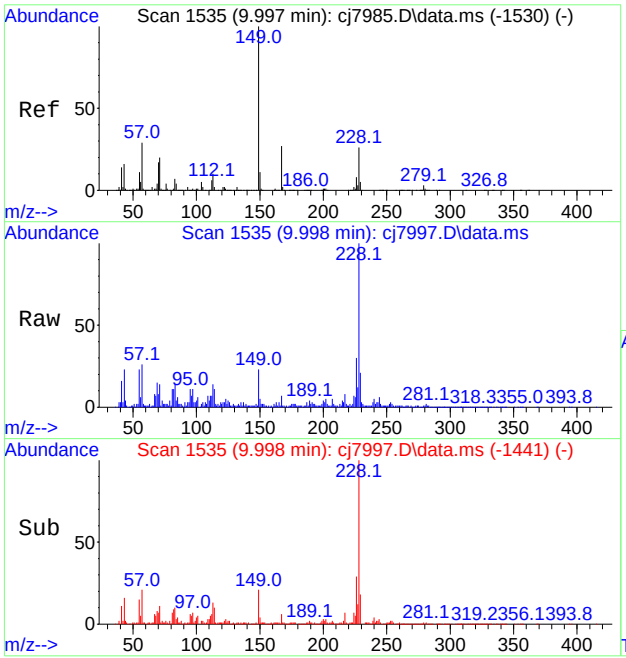


#91
Chrysene
Concen: 4.6022 ppm
RT: 9.987 min Scan# 1533
Delta R.T. 0.000 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:228 Resp: 168531

Ion	Ratio	Lower	Upper
228	100		
226	28.4	0.3	60.3
229	18.8	0.0	50.3

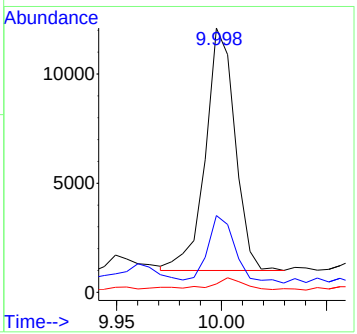


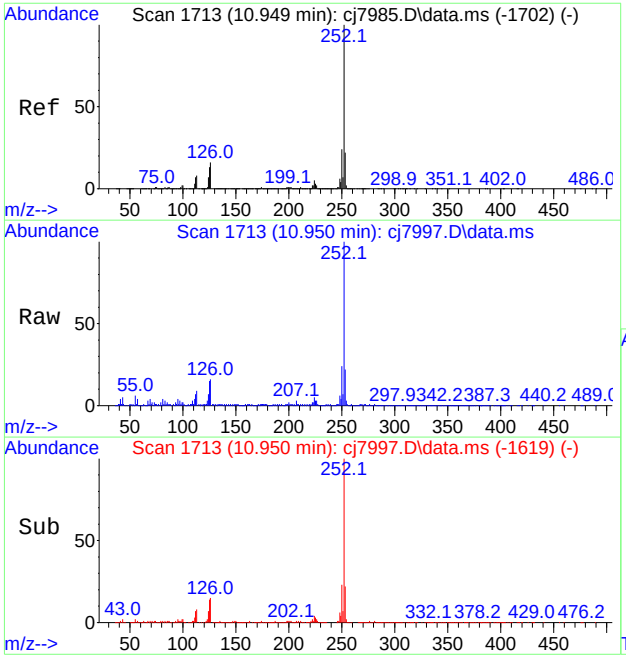


#92
bis(2-Ethylhexyl)phthalate
Concen: 0.3924 ppm
RT: 9.998 min Scan# 1535
Delta R.T. 0.000 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:149 Resp: 10887

Ion	Ratio	Lower	Upper
149	100		
167	26.3	0.0	56.9
279	1.7	0.0	33.4

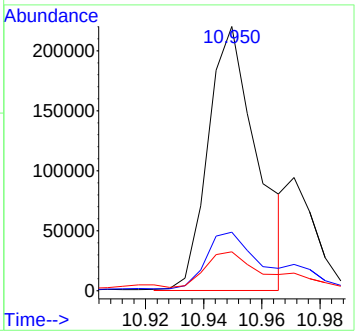


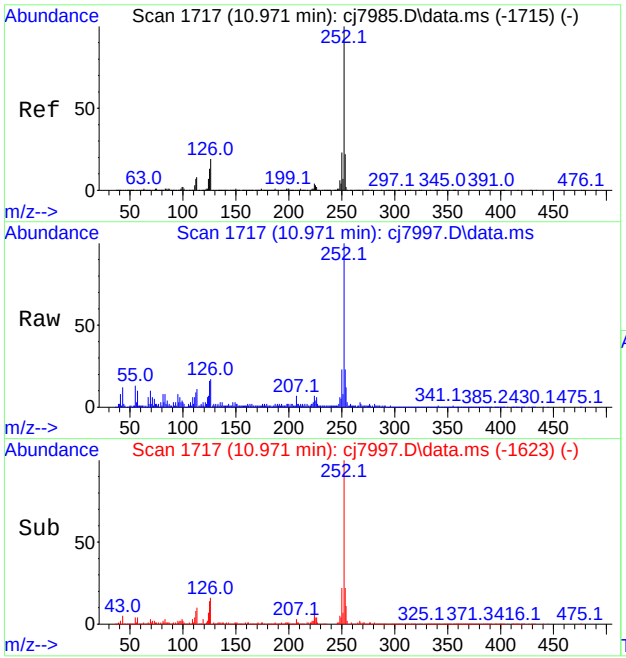


#95
Benzo[b]fluoranthene
Concen: 6.6617 ppm m
RT: 10.950 min Scan# 1713
Delta R.T. 0.000 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:252 Resp: 257450

Ion	Ratio	Lower	Upper
252	100		
253	22.2	0.0	52.5
125	14.7	0.0	42.4

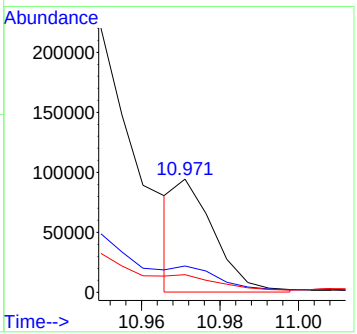


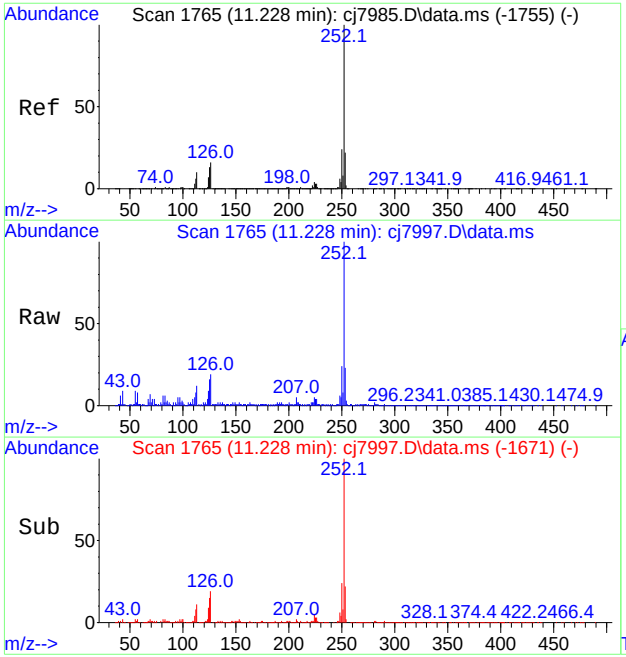


#96
Benzo[k]fluoranthene
Concen: 1.8411 ppm m
RT: 10.971 min Scan# 1717
Delta R.T. 0.000 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:252 Resp: 64025

Ion	Ratio	Lower	Upper
252	100		
253	23.3	0.0	51.7
125	15.7	0.0	43.5

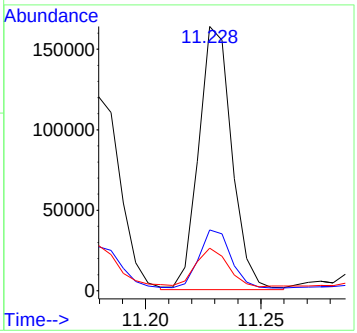


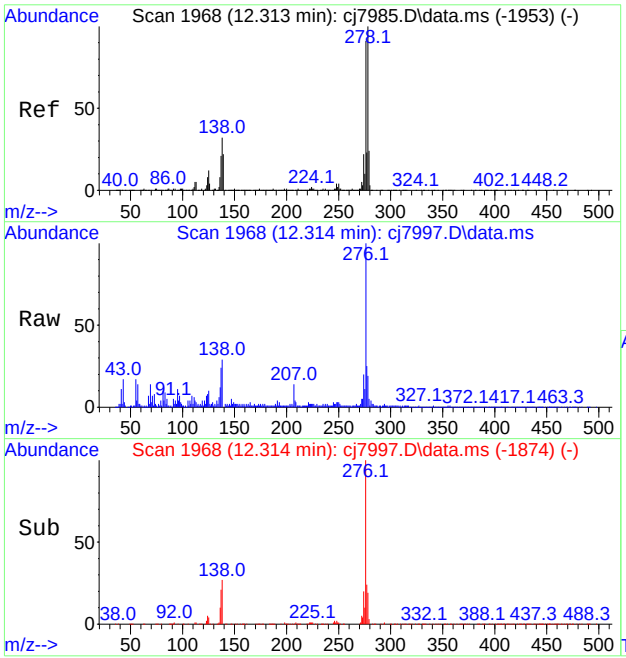


#97
Benzo[a]pyrene
Concen: 5.0983 ppm
RT: 11.228 min Scan# 1765
Delta R.T. 0.000 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:252 Resp: 163106

Ion	Ratio	Lower	Upper
252	100		
253	22.1	0.0	52.1
125	14.2	0.0	42.5

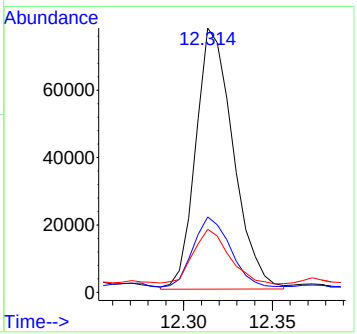


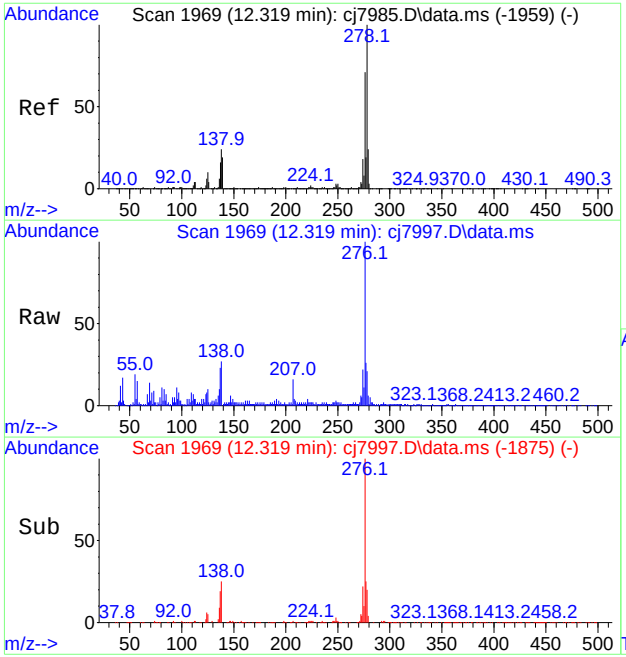


#98
Indeno[1,2,3-cd]pyrene
Concen: 2.9362 ppm
RT: 12.314 min Scan# 1968
Delta R.T. 0.000 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:276 Resp: 113560

Ion	Ratio	Lower	Upper
276	100		
138	27.0	5.2	65.2
137	21.0	0.0	53.3

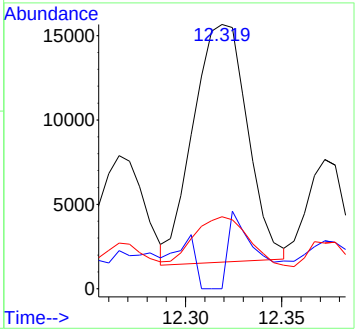


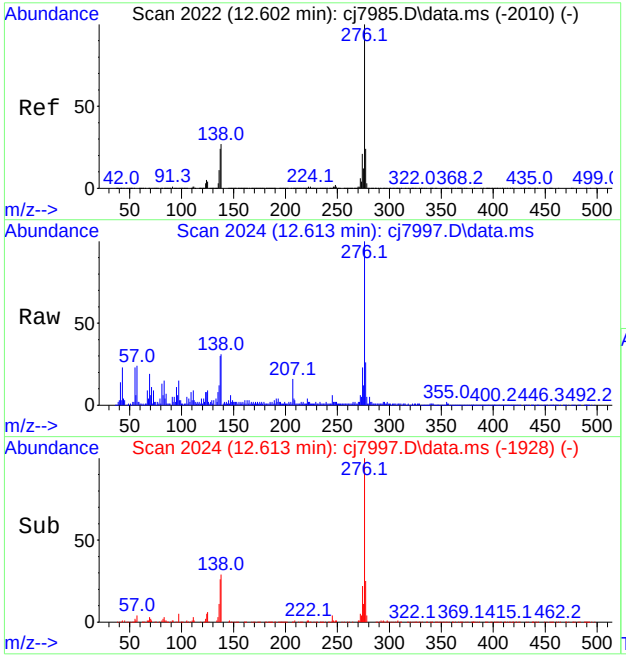


#100
Dibenz[a,h]anthracene
Concen: 0.8950 ppm
RT: 12.319 min Scan# 1969
Delta R.T. 0.000 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:278 Resp: 27659

Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	48.9
279	21.0	0.0	53.7

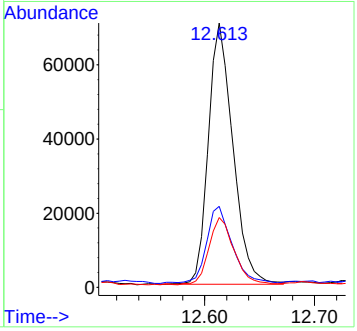




#102
Benzo[g,h,i]perylene
Concen: 3.6576 ppm
RT: 12.613 min Scan# 2024
Delta R.T. 0.011 min
Lab File: cj7997.D
Acq: 01 Jul 2024 03:54 pm

Tgt Ion:276 Resp: 109931

Ion	Ratio	Lower	Upper
276	100		
138	29.3	0.0	57.0
277	25.6	0.0	53.6



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj7997.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.173	442	446	452	rVV	250725	317375	6.59%	0.547%
2	4.216	452	454	466	rVV	69555	101942	2.12%	0.176%
3	4.360	474	481	496	rVV	3134540	2415621	50.14%	4.163%
4	4.718	542	548	555	rVV	498197	431376	8.95%	0.743%
5	5.162	620	631	648	rBV	4638584	3183045	66.07%	5.485%
6	5.842	754	758	765	rBV	1403157	1016186	21.09%	1.751%
7	6.211	822	827	833	rBV	66644	59584	1.24%	0.103%
8	6.307	838	845	857	rBV	5283217	3793063	78.73%	6.536%
9	6.911	953	958	962	rBV	387987	340393	7.07%	0.587%
10	7.387	1044	1047	1057	rVB3	38442	67913	1.41%	0.117%
11	7.484	1057	1065	1075	rBV	4464881	4352781	90.35%	7.501%
12	7.553	1075	1078	1082	rVB	127517	111577	2.32%	0.192%
13	7.708	1101	1107	1112	rBV	39884	59648	1.24%	0.103%
14	7.933	1138	1149	1151	rBV	90953	93583	1.94%	0.161%
15	7.960	1151	1154	1157	rVB	99308	83697	1.74%	0.144%
16	7.992	1157	1160	1164	rBV3	113646	141335	2.93%	0.244%
17	8.029	1164	1167	1170	rBV	144313	113015	2.35%	0.195%
18	8.206	1193	1200	1204	rBV	48157	59845	1.24%	0.103%
19	8.441	1239	1244	1247	rBV	79671	82213	1.71%	0.142%
20	8.527	1255	1260	1267	rVB4	59631	112669	2.34%	0.194%
21	8.586	1267	1271	1278	rBV	961890	897588	18.63%	1.547%
22	8.676	1285	1288	1293	rVB2	51222	54344	1.13%	0.094%
23	8.735	1293	1299	1305	rBV5	56486	100998	2.10%	0.174%
24	8.794	1305	1310	1319	rBV	998930	984511	20.44%	1.697%
25	8.869	1319	1324	1331	rBV4	53615	90243	1.87%	0.156%
26	8.949	1331	1339	1346	rVB	1306145	1178201	24.46%	2.030%
27	9.019	1346	1352	1356	rBV2	65895	109438	2.27%	0.189%
28	9.094	1363	1366	1368	rBV2	63574	67148	1.39%	0.116%
29	9.120	1368	1371	1375	rVB	119837	120974	2.51%	0.208%
30	9.185	1375	1383	1386	rBV	88549	101015	2.10%	0.174%
31	9.217	1386	1389	1394	rBV2	198289	202196	4.20%	0.348%
32	9.270	1394	1399	1403	rBV7	36788	70827	1.47%	0.122%
33	9.334	1408	1411	1422	rVB2	75319	105141	2.18%	0.181%
34	9.554	1443	1452	1457	rBV4	47440	80759	1.68%	0.139%
35	9.623	1461	1465	1469	rVB	60213	57228	1.19%	0.099%
36	9.666	1469	1473	1478	rVB2	86803	84487	1.75%	0.146%
37	9.719	1478	1483	1484	rBV	69968	85248	1.77%	0.147%
38	9.736	1484	1486	1489	rVB2	68433	65033	1.35%	0.112%
39	9.762	1489	1491	1495	rBV	61605	56585	1.17%	0.098%
40	9.832	1499	1504	1510	rBV2	52796	92637	1.92%	0.160%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.880	1510	1513	1517	rVB2	158956	130934	2.72%	0.226%
42	9.960	1517	1528	1532	rBV	4044546	4817517	100.00%	8.302%
43	10.062	1543	1547	1551	rBV2	80616	83534	1.73%	0.144%
44	10.195	1564	1572	1579	rBV5	74608	154798	3.21%	0.267%
45	10.313	1591	1594	1597	rVV	229166	203827	4.23%	0.351%
46	10.351	1597	1601	1605	rVV	110233	126961	2.64%	0.219%
47	10.442	1615	1618	1620	rVV3	56174	59286	1.23%	0.102%
48	10.468	1620	1623	1625	rVV3	60789	71676	1.49%	0.124%
49	10.500	1625	1629	1635	rVV	324752	336176	6.98%	0.579%
50	10.570	1635	1642	1649	rVV4	290259	785031	16.30%	1.353%
51	10.618	1649	1651	1655	rVV	138708	194222	4.03%	0.335%
52	10.645	1655	1656	1660	rVV3	80739	84468	1.75%	0.146%
53	10.682	1660	1663	1667	rVV5	68808	110139	2.29%	0.190%
54	10.714	1667	1669	1671	rVV3	50233	58157	1.21%	0.100%
55	10.757	1671	1677	1680	rVV7	76615	164997	3.42%	0.284%
56	10.795	1680	1684	1687	rVV	153957	201821	4.19%	0.348%
57	10.848	1687	1694	1698	rVV3	197612	347090	7.20%	0.598%
58	10.918	1698	1707	1710	rVV	642881	761234	15.80%	1.312%
59	10.950	1710	1713	1722	rVV	617657	1082236	22.46%	1.865%
60	11.041	1722	1730	1733	rVV2	142244	298030	6.19%	0.514%
61	11.083	1733	1738	1742	rVV	1872364	1907916	39.60%	3.288%
62	11.180	1742	1756	1763	rVV3	594197	1741652	36.15%	3.001%
63	11.228	1763	1765	1769	rVV	529968	586403	12.17%	1.011%
64	11.276	1769	1774	1786	rVV	3566761	4232675	87.86%	7.294%
65	11.362	1786	1790	1797	rVV2	259495	512519	10.64%	0.883%
66	11.452	1797	1807	1811	rVV8	148830	561243	11.65%	0.967%
67	11.506	1811	1817	1826	rVV	953546	1312065	27.24%	2.261%
68	11.575	1828	1830	1837	rVV8	57705	144138	2.99%	0.248%
69	11.677	1839	1849	1854	rVV	3273309	3673108	76.24%	6.330%
70	11.715	1854	1856	1859	rVV4	75870	102717	2.13%	0.177%
71	11.752	1859	1863	1867	rVV	268500	404149	8.39%	0.696%
72	11.795	1867	1871	1876	rVV6	149648	346405	7.19%	0.597%
73	11.838	1876	1879	1888	rVB3	202942	303944	6.31%	0.524%
74	11.928	1889	1896	1899	rVB8	53363	97213	2.02%	0.168%
75	11.987	1899	1907	1909	rBV8	62595	121199	2.52%	0.209%
76	12.019	1909	1913	1919	rVB2	116916	164466	3.41%	0.283%
77	12.116	1926	1931	1939	rVB3	89690	143126	2.97%	0.247%
78	12.212	1939	1949	1957	rVB2	741066	1016124	21.09%	1.751%
79	12.314	1963	1968	1974	rVB2	226502	336815	6.99%	0.580%
80	12.372	1974	1979	1982	rBV4	182701	273256	5.67%	0.471%
81	12.415	1982	1987	1994	rVB	1059183	1588099	32.97%	2.737%
82	12.479	1994	1999	2003	rBV6	102654	188434	3.91%	0.325%
83	12.528	2003	2008	2015	rVB	362840	571176	11.86%	0.984%
84	12.613	2015	2024	2035	rVB2	258607	685724	14.23%	1.182%
85	12.752	2042	2050	2063	rBV5	379434	1175278	24.40%	2.025%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.929	2078	2083	2089	rVB4	101031	156946	3.26%	0.270%
87	13.004	2089	2097	2112	rVB5	201747	481918	10.00%	0.830%
88	13.137	2113	2122	2131	rVB2	314084	640465	13.29%	1.104%
89	13.239	2131	2141	2151	rBV2	71457	268600	5.58%	0.463%
90	13.324	2151	2157	2165	rVB2	291267	565378	11.74%	0.974%
91	13.389	2165	2169	2183	rVB7	48146	114756	2.38%	0.198%
92	13.512	2184	2192	2196	rBV7	48304	107464	2.23%	0.185%
93	13.565	2196	2202	2214	rVB2	250990	563089	11.69%	0.970%
94	13.694	2214	2226	2228	rBV2	33955	92371	1.92%	0.159%
95	13.956	2266	2275	2290	rVV6	158583	425857	8.84%	0.734%
96	14.105	2294	2303	2312	rVV3	60646	199786	4.15%	0.344%
97	14.175	2312	2316	2320	rVV7	29690	65592	1.36%	0.113%
98	14.244	2320	2329	2332	rVV3	72581	202225	4.20%	0.348%
99	14.287	2336	2337	2354	rVV3	73652	266555	5.53%	0.459%
100	14.394	2354	2357	2365	rVB9	33195	75046	1.56%	0.129%

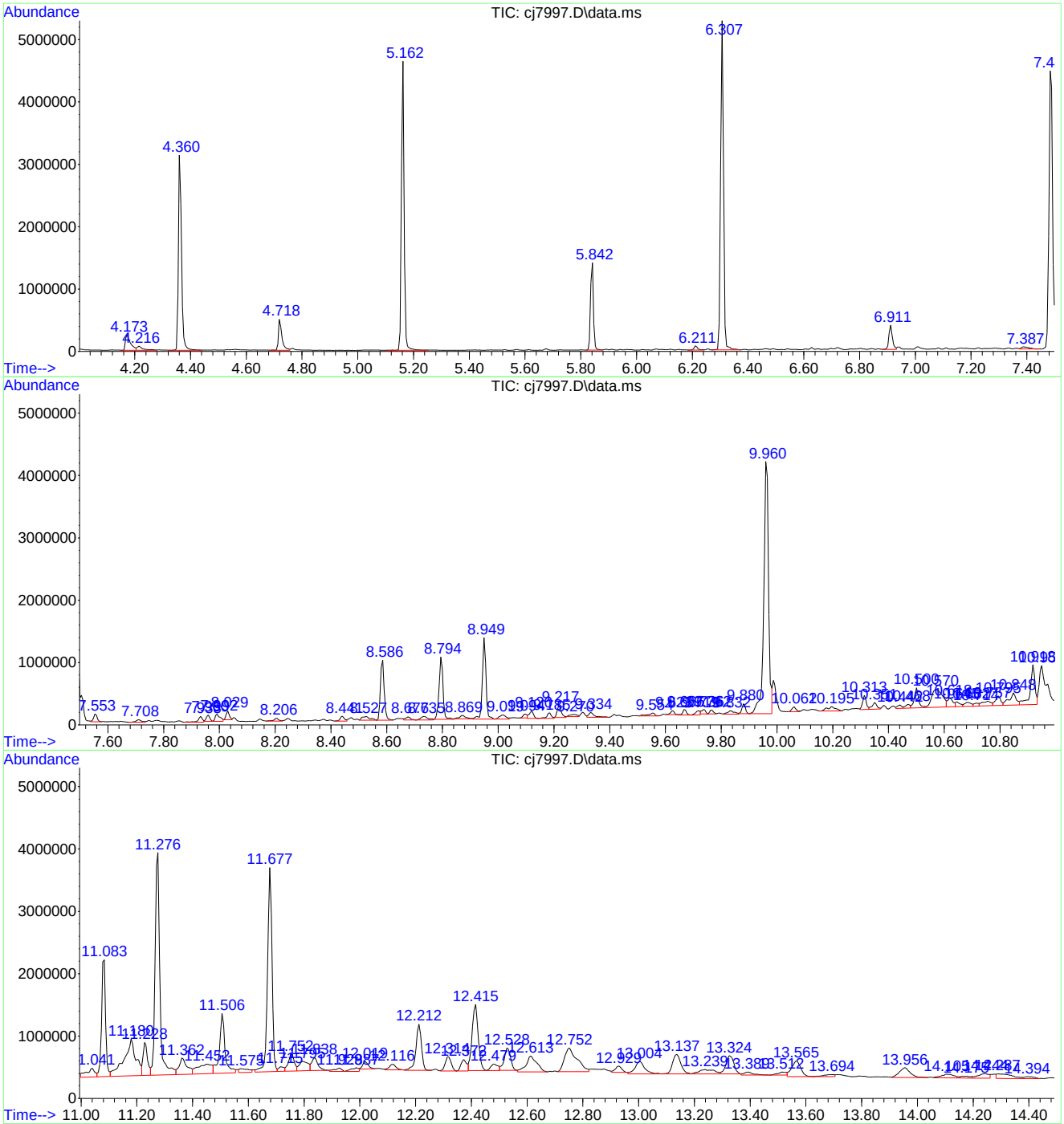
Sum of corrected areas: 58029488

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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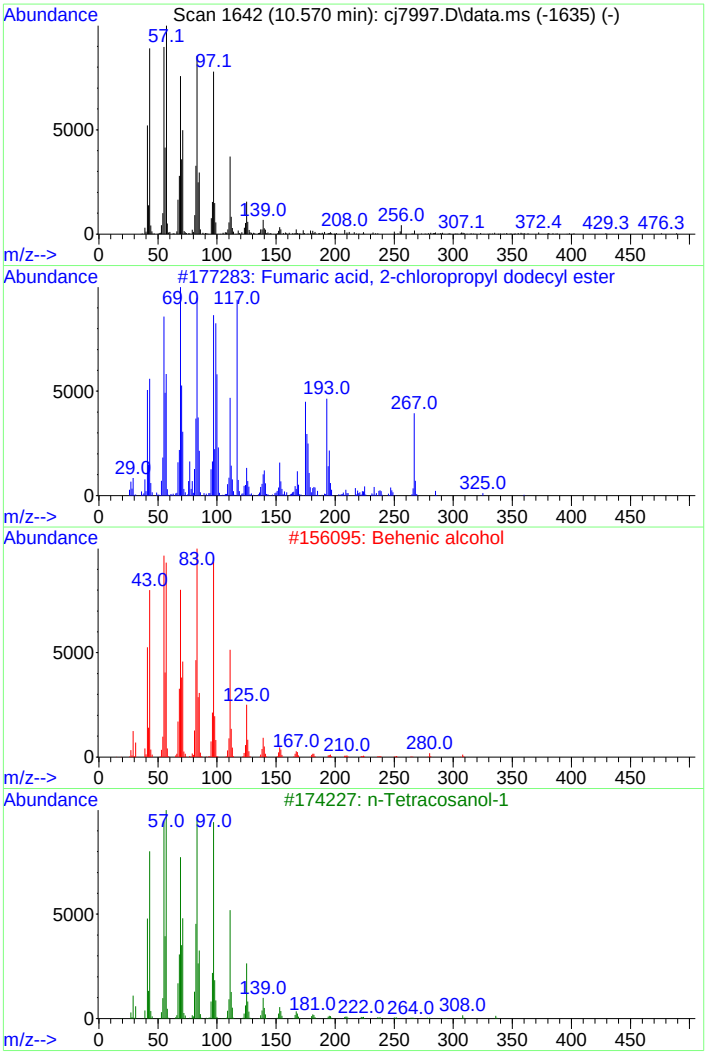
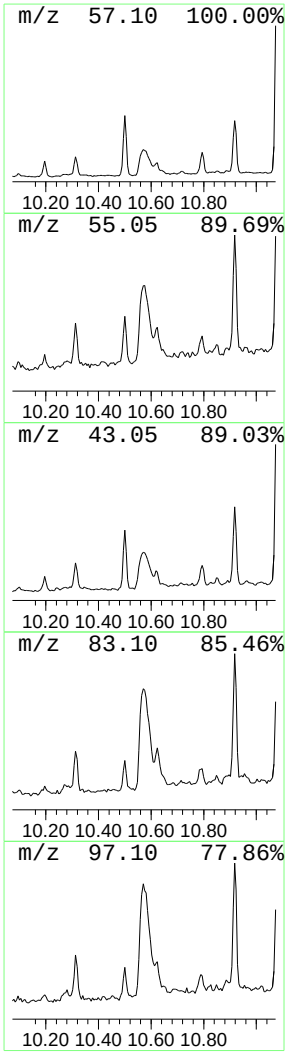
Peak Number 1 Unknown alcohol Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.570	6.52 ppm	785031	Chrysene-d12a	9.965

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fumaric acid, 2-chloropropyl dod...	360	C19H33ClO4	1000348-57-0	96
2	Behenic alcohol	326	C22H46O	000661-19-8	94
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
4	3-Eicosene, (E)-	280	C20H40	074685-33-9	91
5	1-Heneicosanol	312	C21H44O	015594-90-8	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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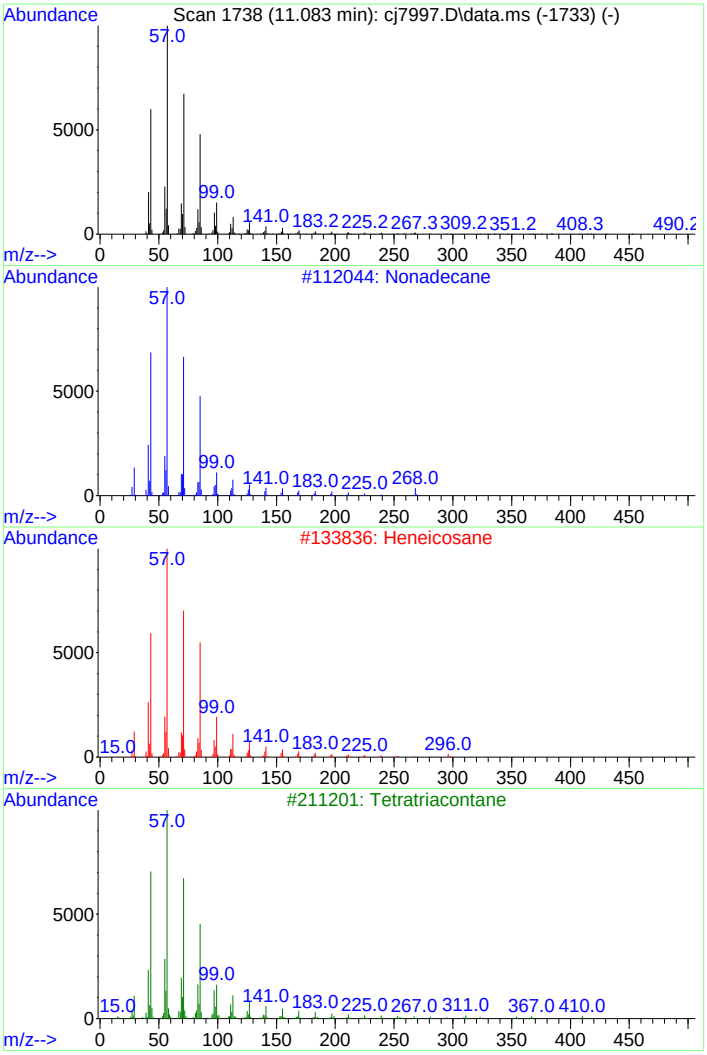
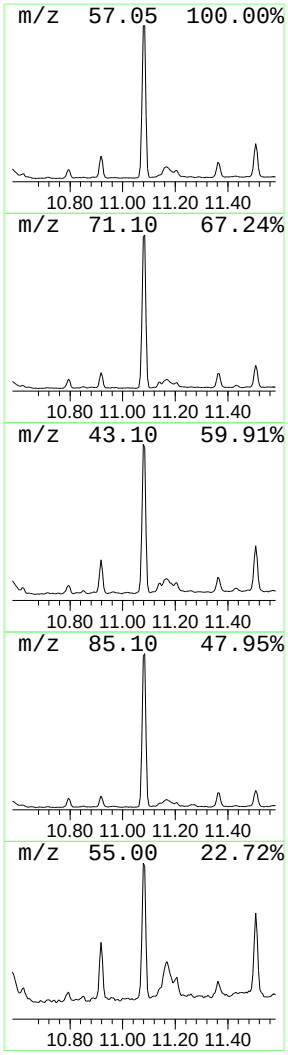
Peak Number 2 Alkane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.083	18.03 ppm	1907920	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	94
2	Heneicosane	296	C21H44	000629-94-7	91
3	Tetratriacontane	479	C34H70	014167-59-0	91
4	Triacontane	422	C30H62	000638-68-6	91
5	Octacosane	394	C28H58	000630-02-4	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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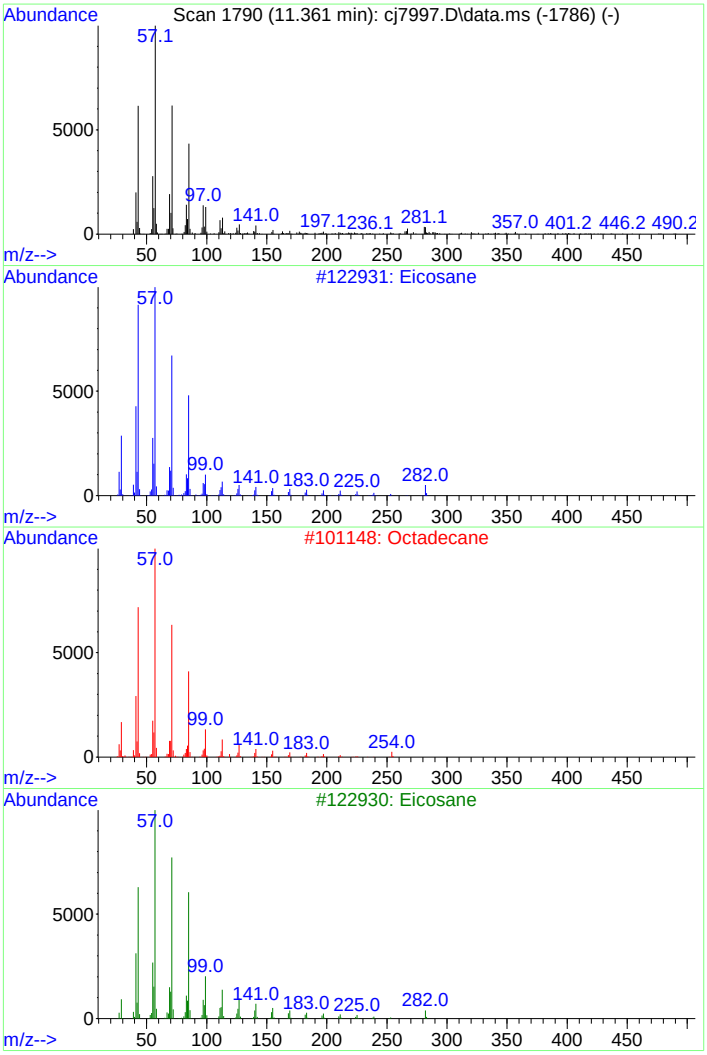
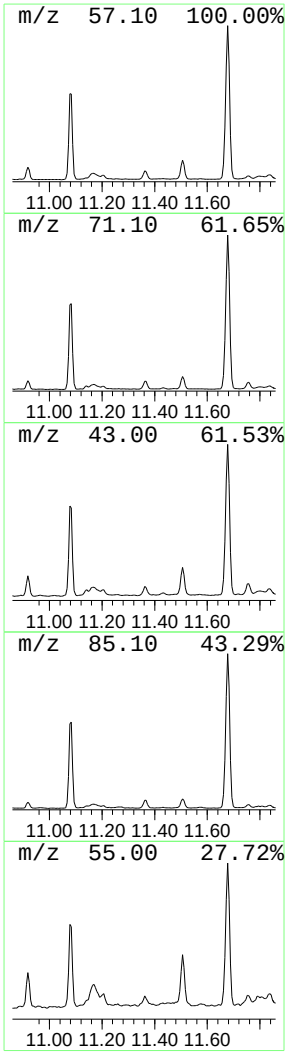
Peak Number 3 Alkane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.361	4.84 ppm	512519	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	93
2	Octadecane	254	C18H38	000593-45-3	92
3	Eicosane	282	C20H42	000112-95-8	91
4	Octacosane	394	C28H58	000630-02-4	87
5	Tetratetracontane	619	C44H90	007098-22-8	87





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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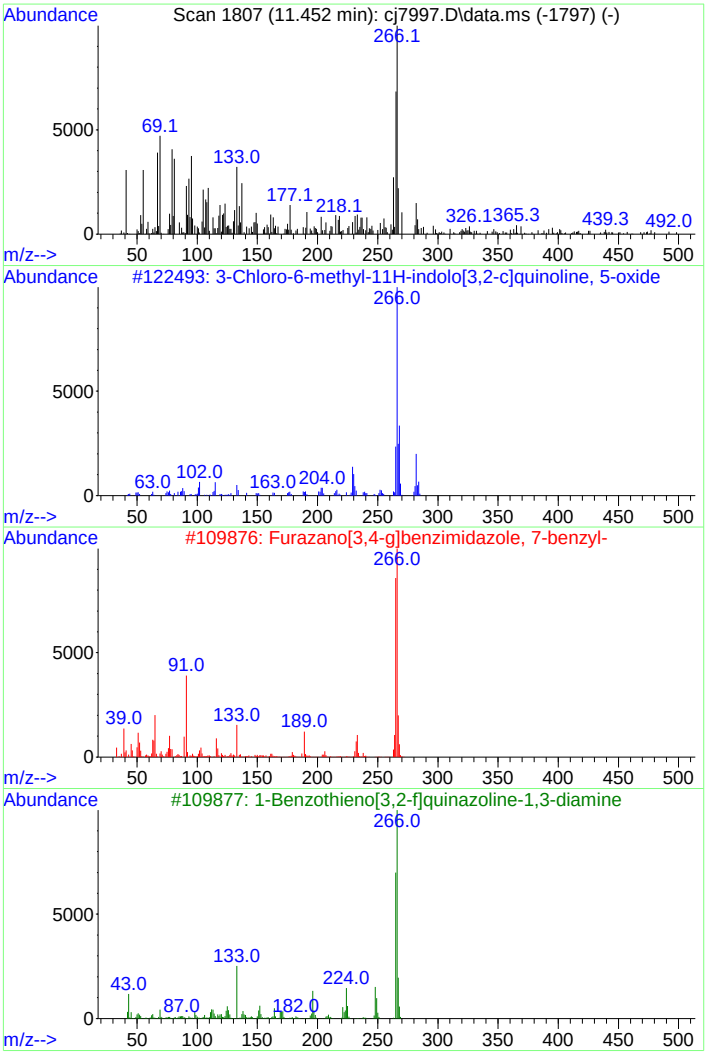
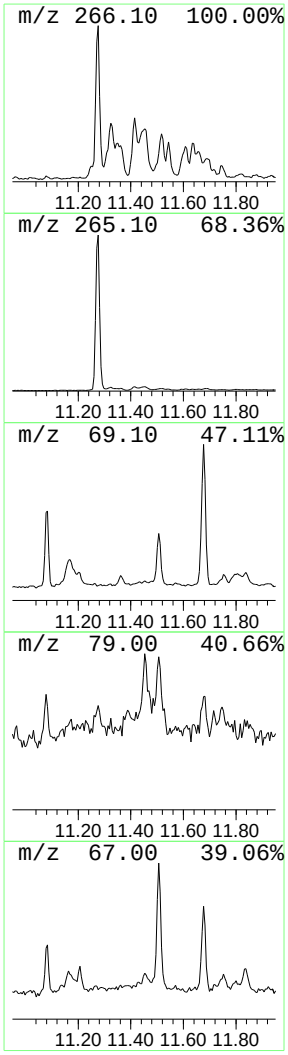
Peak Number 4 Unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.452	5.30 ppm	561243	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-methyl-11H-indolo[3,2...	282	C16H11ClN2O	1000212-76-7	50
2	Furazano[3,4-g]benzimidazole, 7-...	266	C14H10N4S	129485-61-6	49
3	1-Benzothieno[3,2-f]quinazoline-...	266	C14H10N4S	065642-92-4	49
4	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	47
5	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	46





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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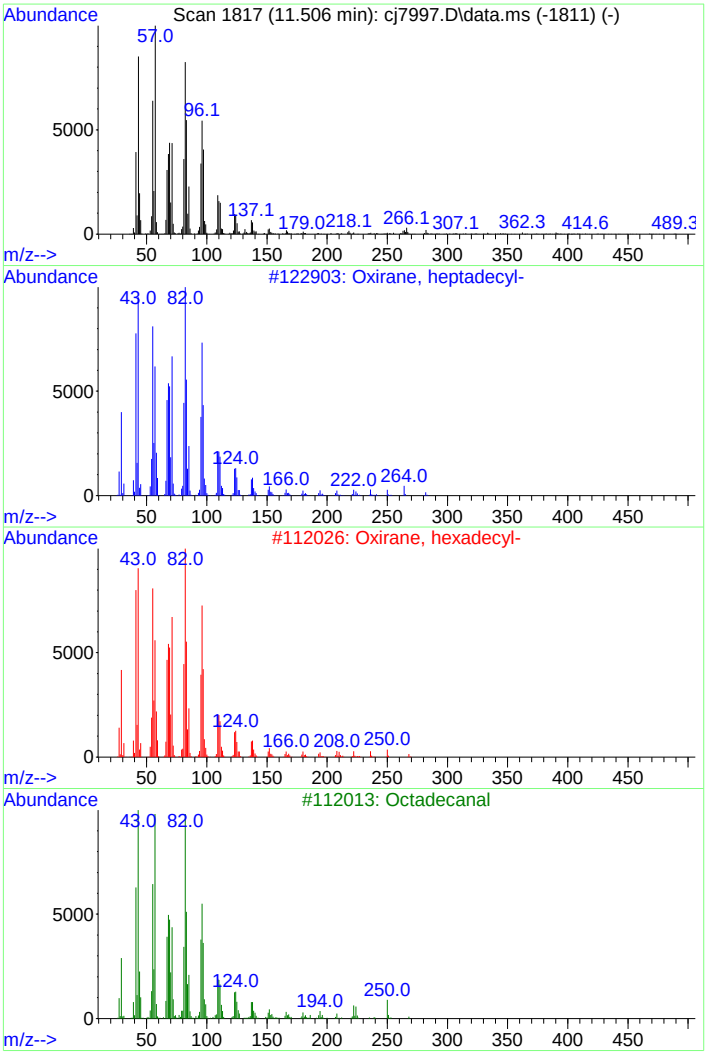
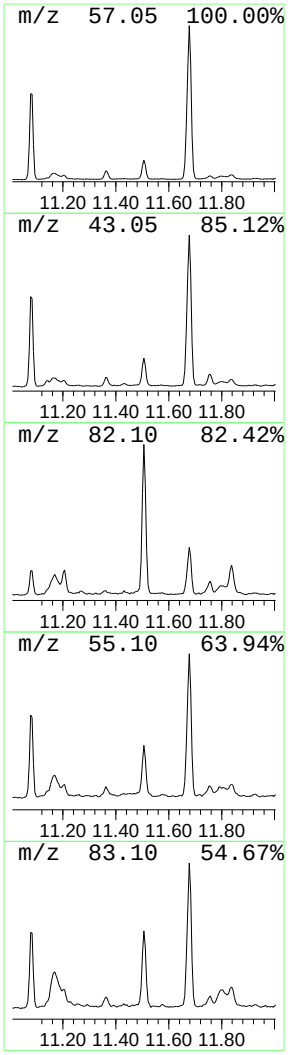
Peak Number 5 Unknown alcohol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.506	12.40 ppm	1312070	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	96
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
3	Octadecanal	268	C18H36O	000638-66-4	90
4	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	86
5	16-Octadecenal	266	C18H34O	056554-87-1	80





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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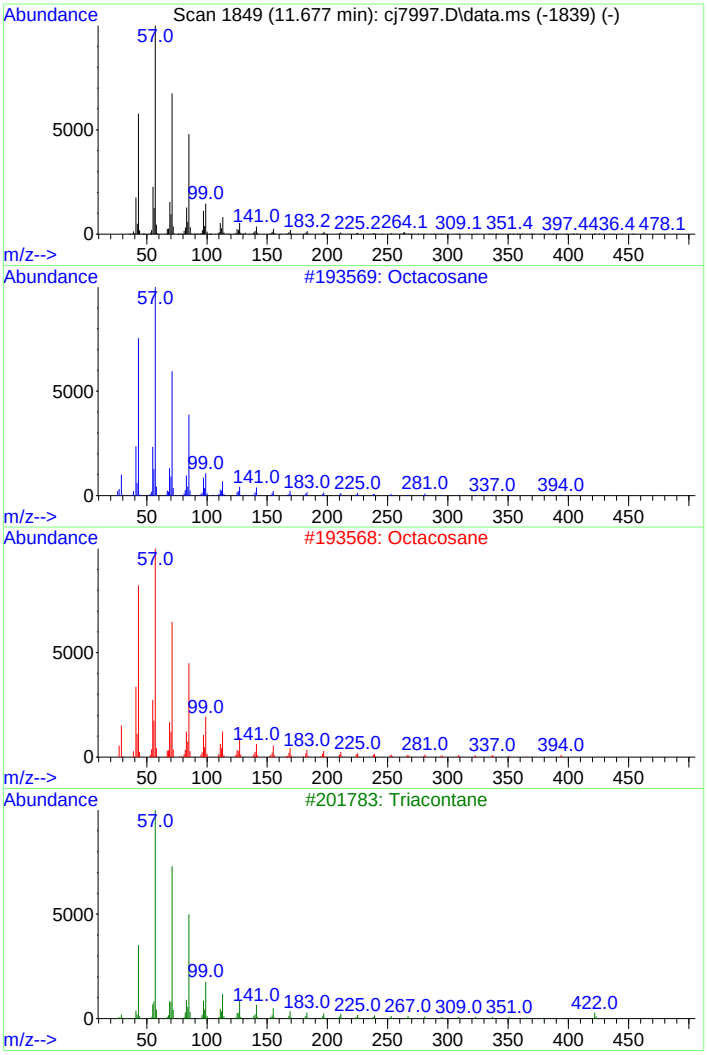
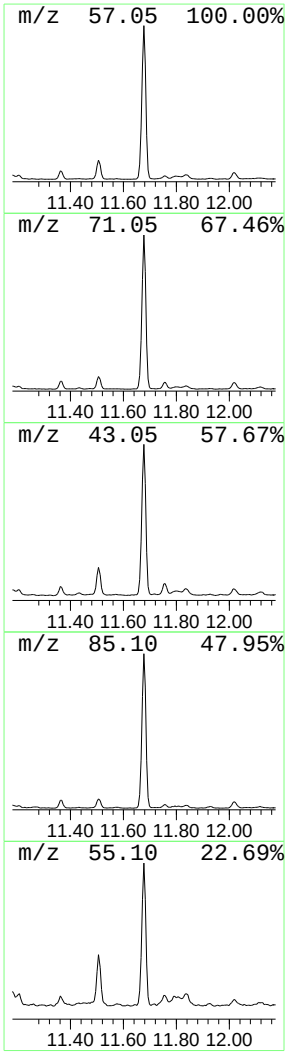
Peak Number 6 Alkane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.677	34.71 ppm	3673110	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	98
2	Octacosane	394	C28H58	000630-02-4	97
3	Triacontane	422	C30H62	000638-68-6	95
4	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	93
5	Heptacosane	380	C27H56	000593-49-7	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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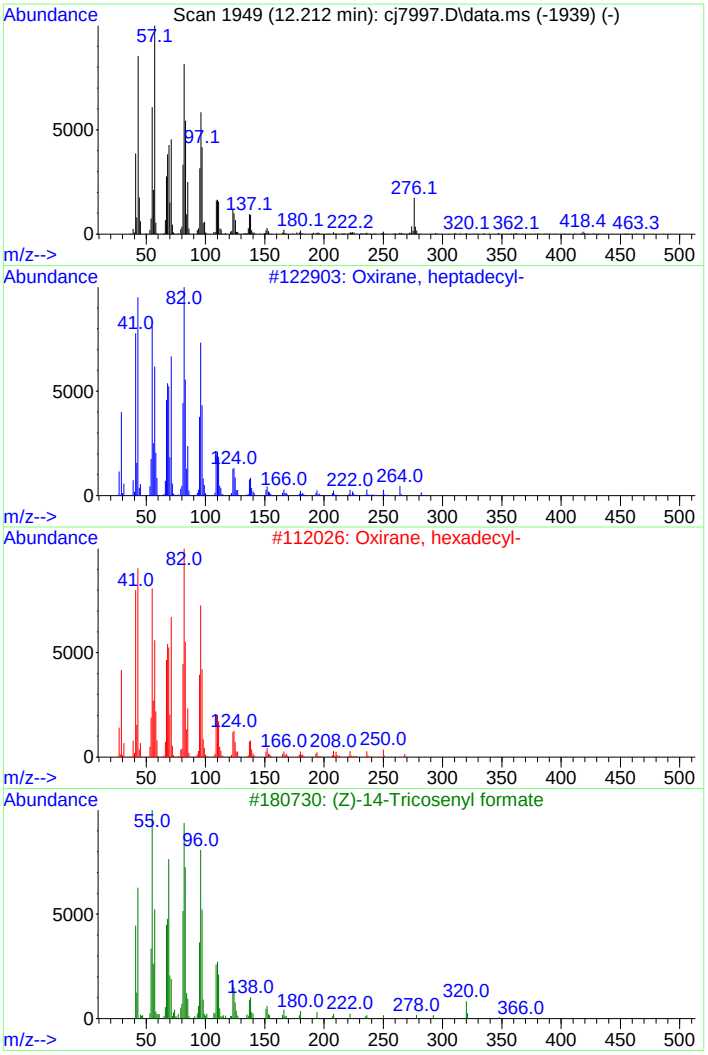
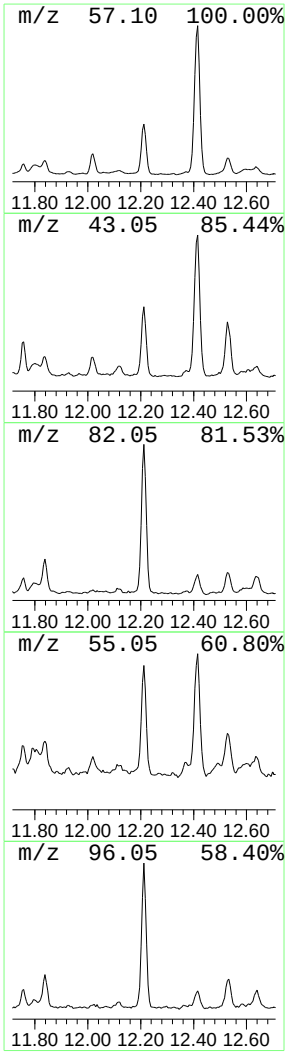
Peak Number 7 Unknown alcohol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.212	9.60 ppm	1016120	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	90
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	87
3	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	83
4	16-Octadecenal	266	C18H34O	056554-87-1	76
5	1,19-Eicosadiene	278	C20H38	014811-95-1	68





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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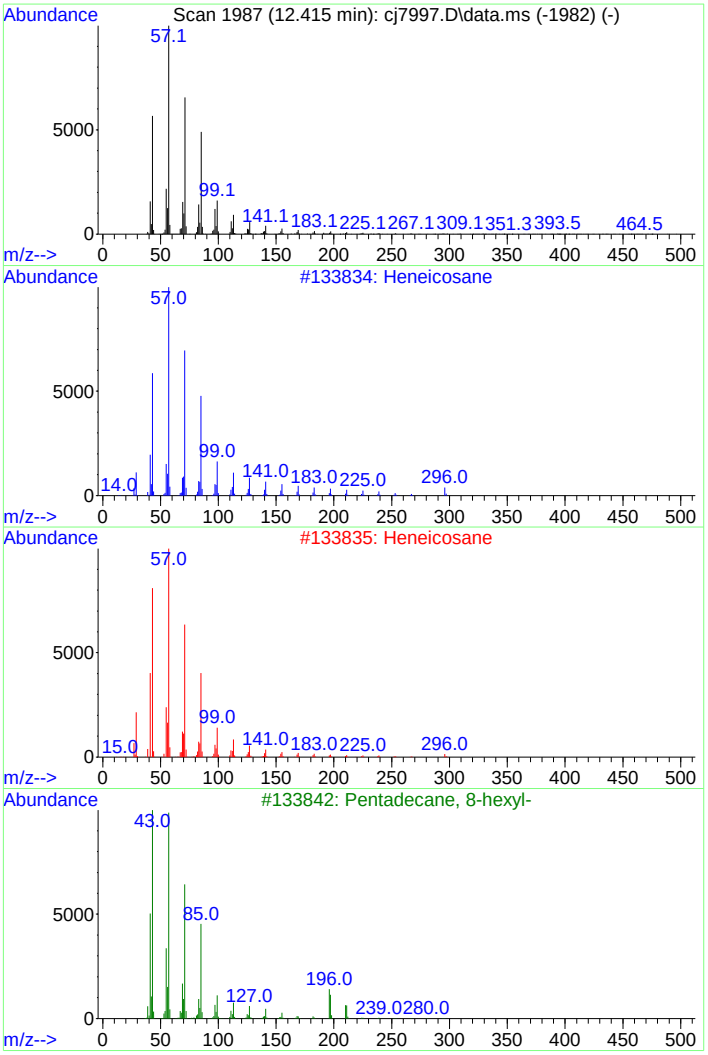
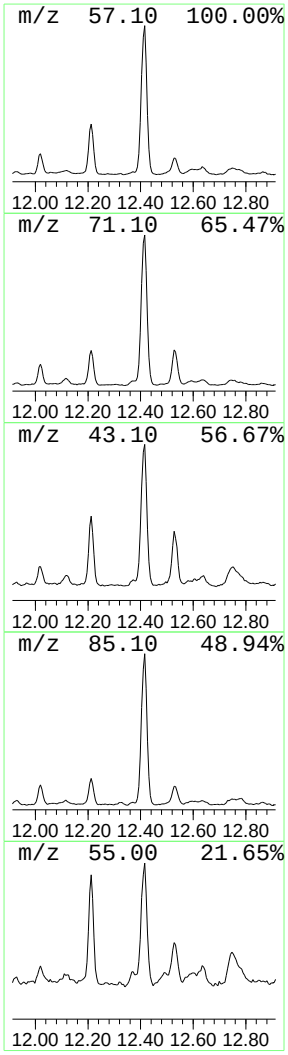
Peak Number 8 Alkane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.415	15.01 ppm	1588100	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	96
2	Heneicosane	296	C21H44	000629-94-7	93
3	Pentadecane, 8-hexyl-	296	C21H44	013475-75-7	93
4	Pentacosane	352	C25H52	000629-99-2	91
5	Heneicosane	296	C21H44	000629-94-7	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

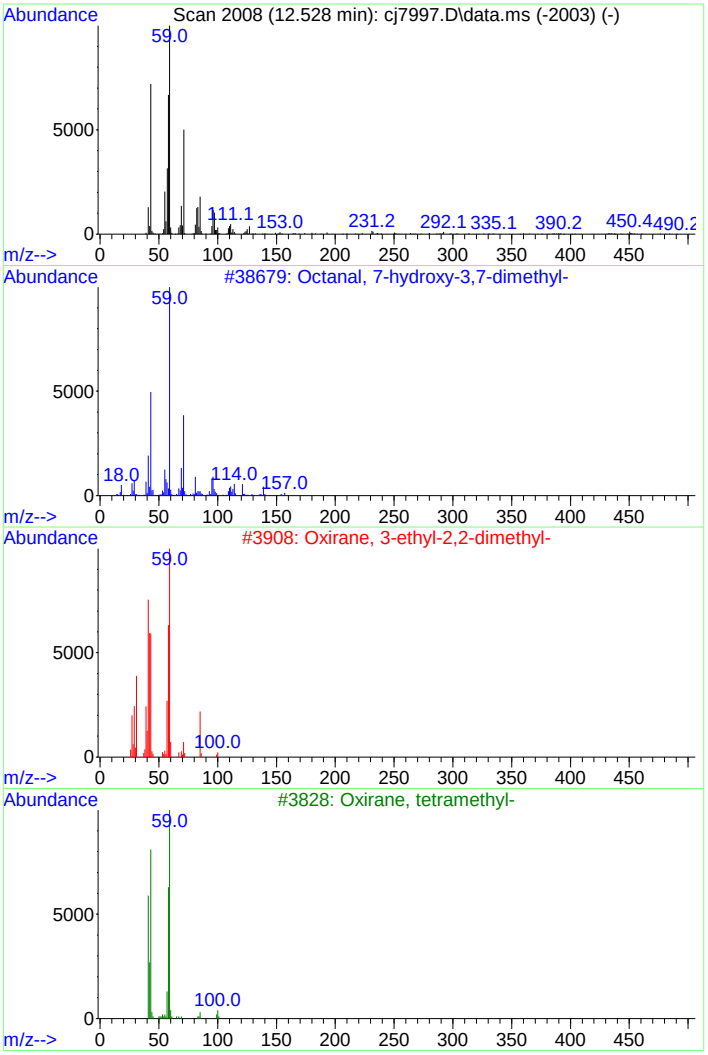
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

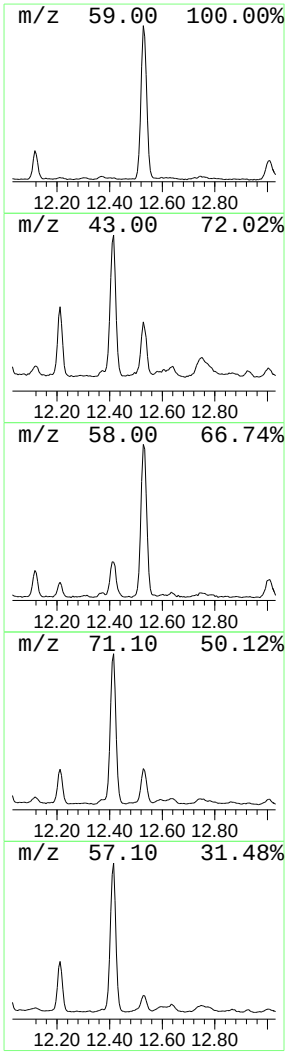
****

Peak Number 9 Unknown alcohol Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.528	5.40 ppm	571176	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octanal, 7-hydroxy-3,7-dimethyl-	172	C10H20O2	000107-75-5	50
2	Oxirane, 3-ethyl-2,2-dimethyl-	100	C6H12O	001192-22-9	50
3	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	47
4	2-Nonadecanone	282	C19H38O	000629-66-3	47
5	2-Nonanone	142	C9H18O	000821-55-6	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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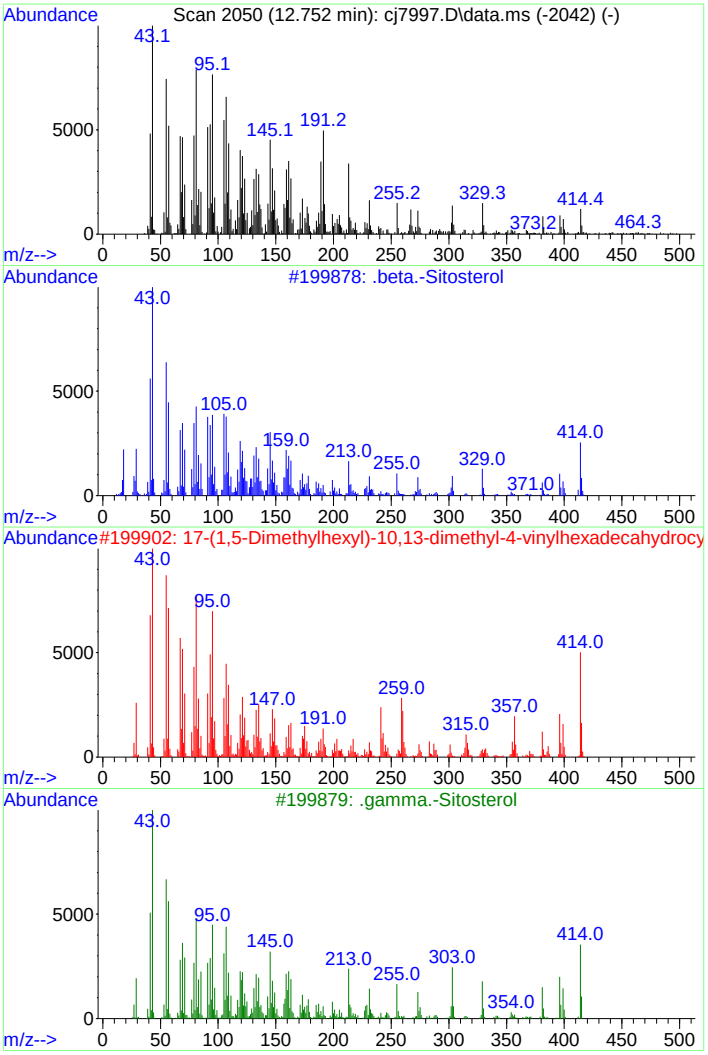
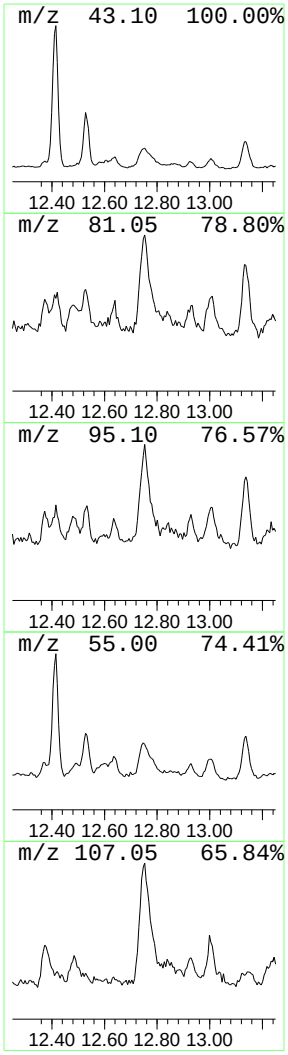
Peak Number 10 Sitosterol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.752	11.11 ppm	1175280	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Sitosterol	414	C29H50O	000083-46-5	97
2	17-(1,5-Dimethylhexyl)-10,13-dim...	414	C29H50O	1000210-86-9	64
3	.gamma.-Sitosterol	414	C29H50O	000083-47-6	50
4	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	47
5	Campesterol	400	C28H48O	000474-62-4	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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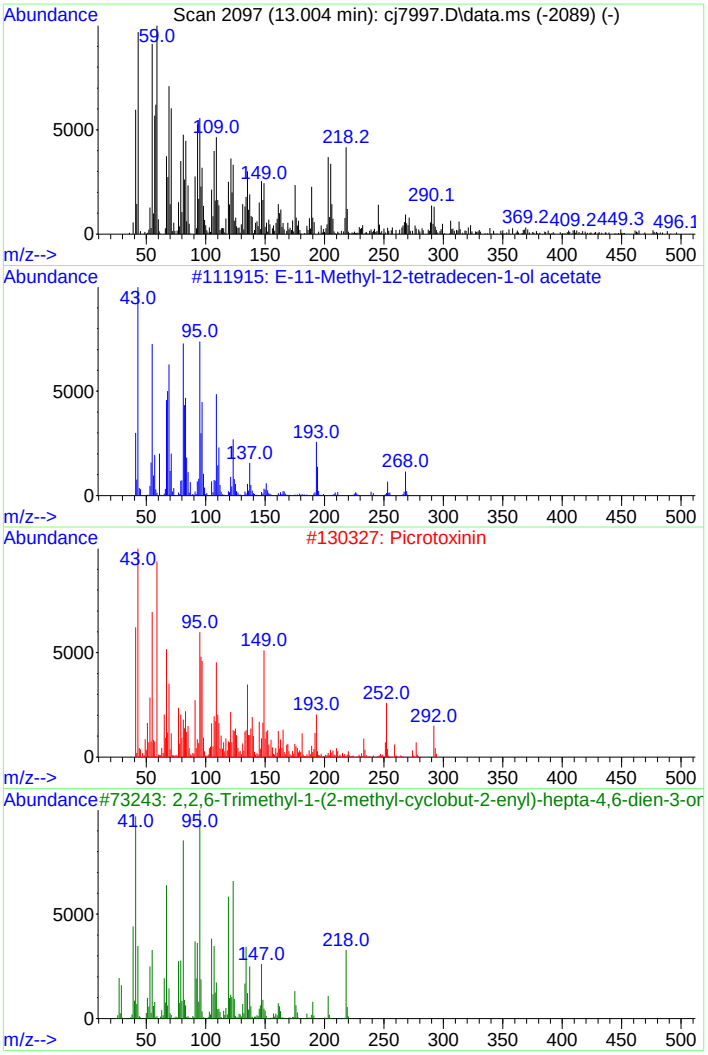
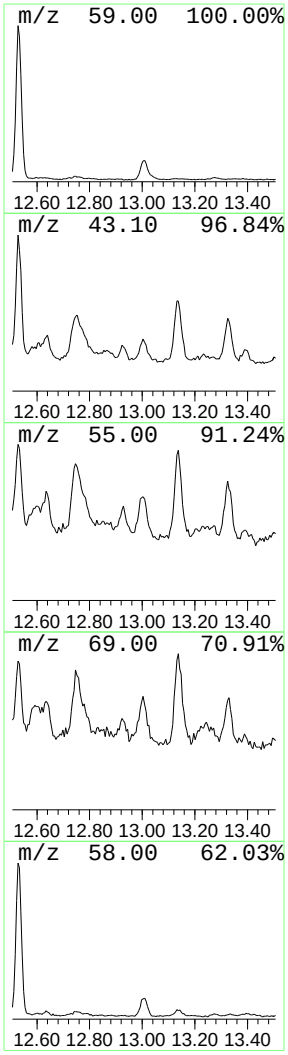
Peak Number 11 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.004	4.55 ppm	481918	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	E-11-Methyl-12-tetradecen-1-ol a...	268	C17H32O2	1000130-80-7	53
2	Picrotoxinin	292	C15H16O6	017617-45-7	35
3	2,2,6-Trimethyl-1-(2-methyl-cycl...	218	C15H22O	1000188-72-8	35
4	Sesquirosefuran	218	C15H22O	039007-93-7	30
5	Acetic acid, 10,11-dihydroxy-3,7...	298	C17H30O4	1000194-28-5	25





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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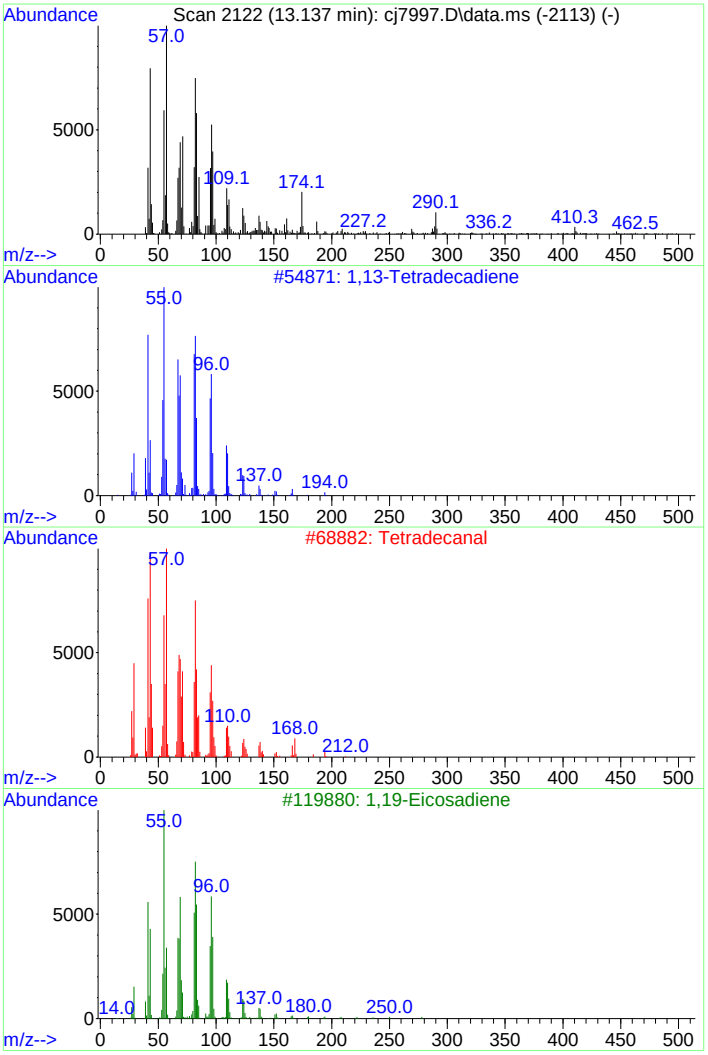
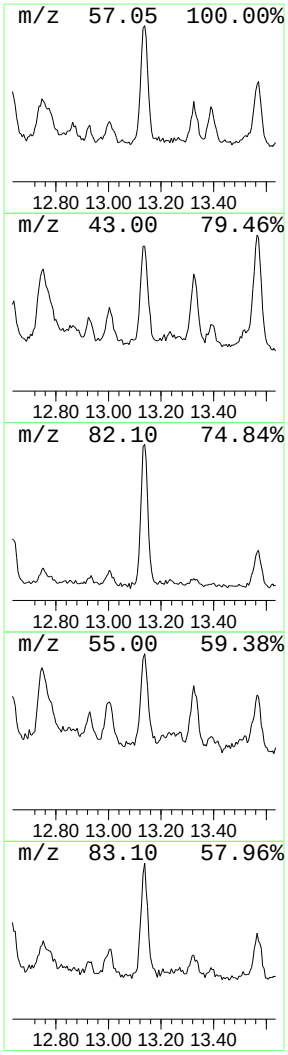
Peak Number 12 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.137	6.05 ppm	640465	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,13-Tetradecadiene	194	C14H26	021964-49-8	83
2	Tetradecanal	212	C14H28O	000124-25-4	76
3	1,19-Eicosadiene	278	C20H38	014811-95-1	74
4	Z-11-Tetradecen-1-ol difluoroace...	290	C16H28F2O2	1000130-82-7	60
5	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	58





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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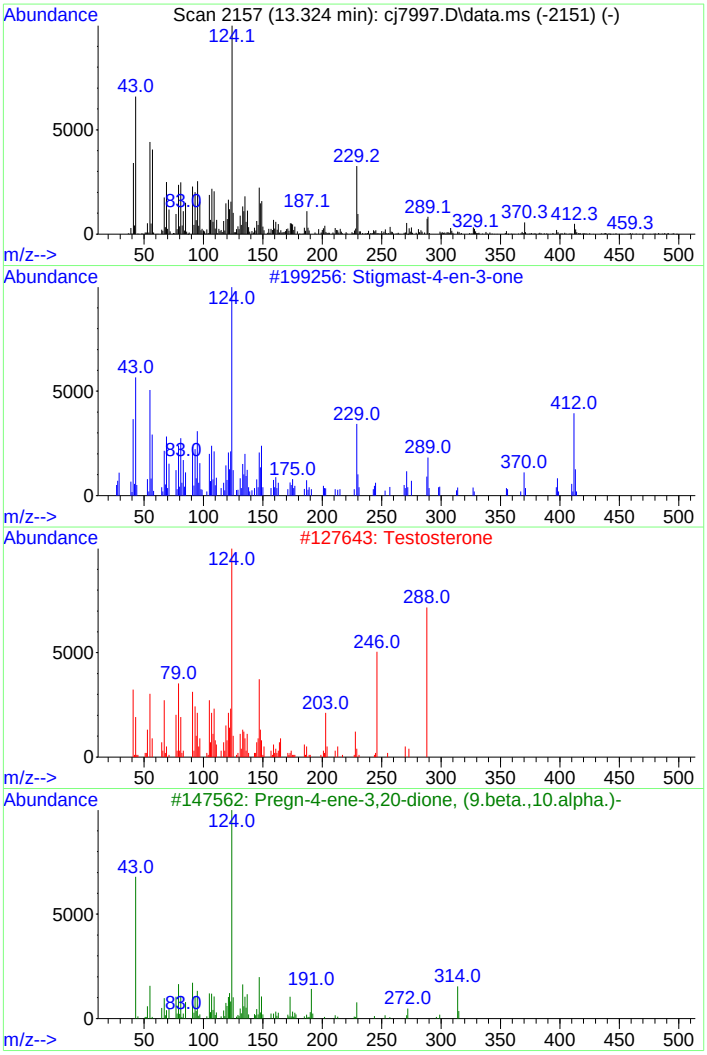
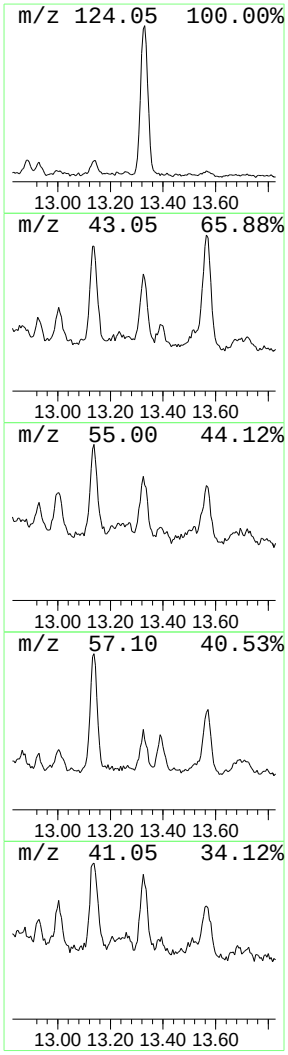
Peak Number 13 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.325	5.34 ppm	565378	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	94
2	Testosterone	288	C19H28O2	000058-22-0	78
3	Pregn-4-ene-3,20-dione, (9.beta....	314	C21H30O2	002755-10-4	52
4	17-Norcorynan, 16-(2,3,4,9-tetra...	438	C29H34N4	051820-26-9	46
5	1,4-Benzenediol, 2-methyl-	124	C7H8O2	000095-71-6	46





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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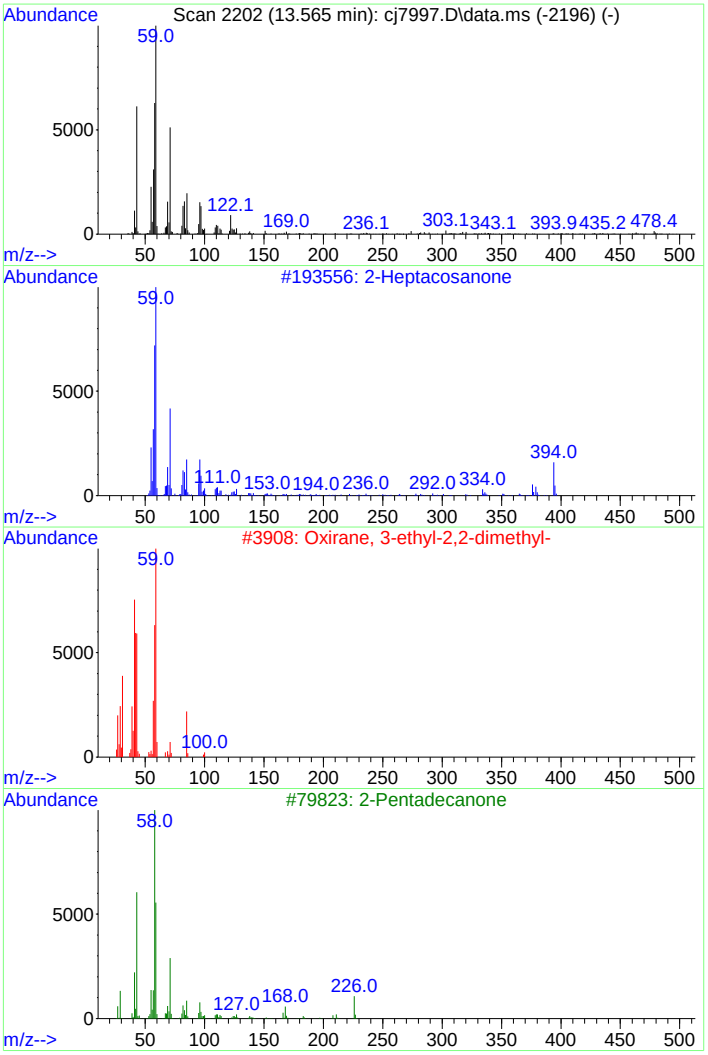
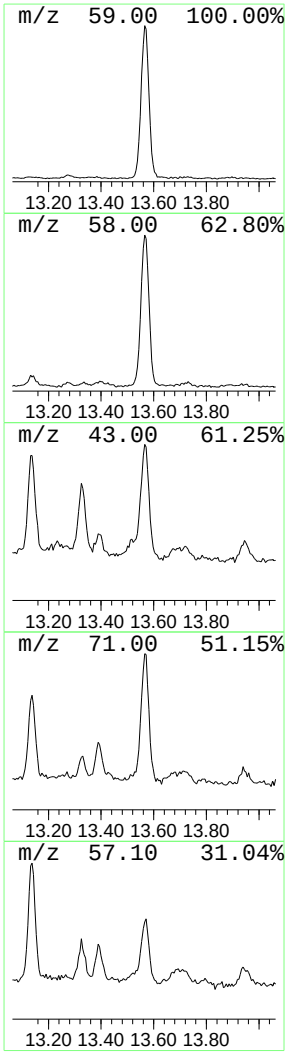
Peak Number 14 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.565	5.32 ppm	563089	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptacosanone	394	C27H54O	007796-19-2	87
2	Oxirane, 3-ethyl-2,2-dimethyl-	100	C6H12O	001192-22-9	50
3	2-Pentadecanone	226	C15H30O	002345-28-0	50
4	D-Ribose, 5-O-methyl-2,3-O-(1-me...	204	C9H16O5	064018-53-7	47
5	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	46





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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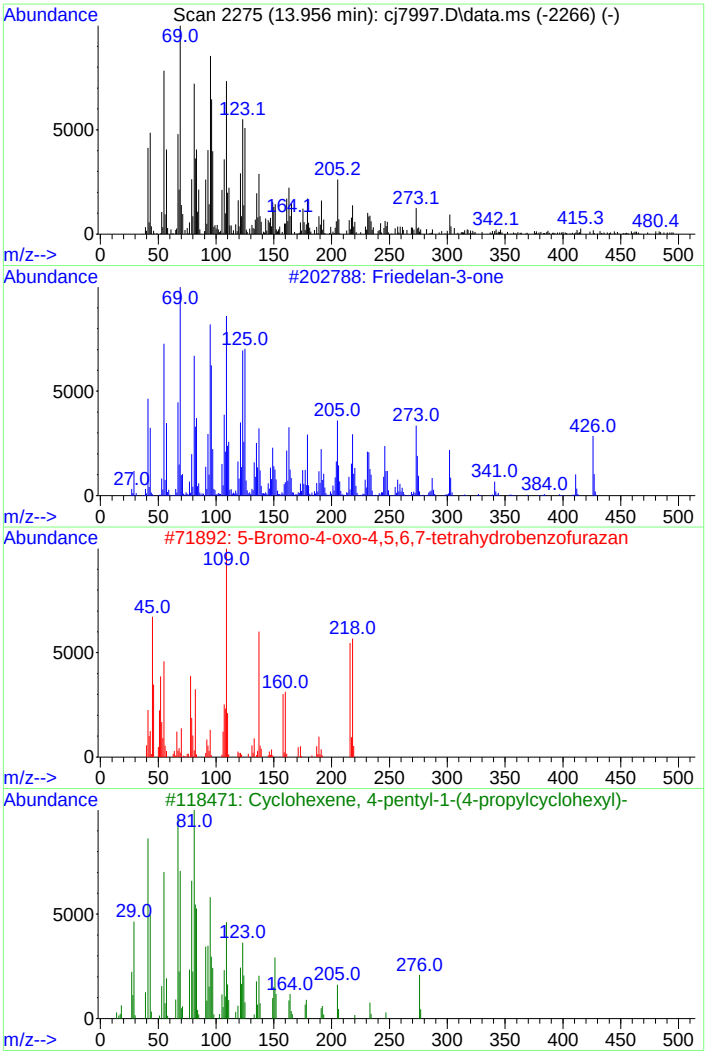
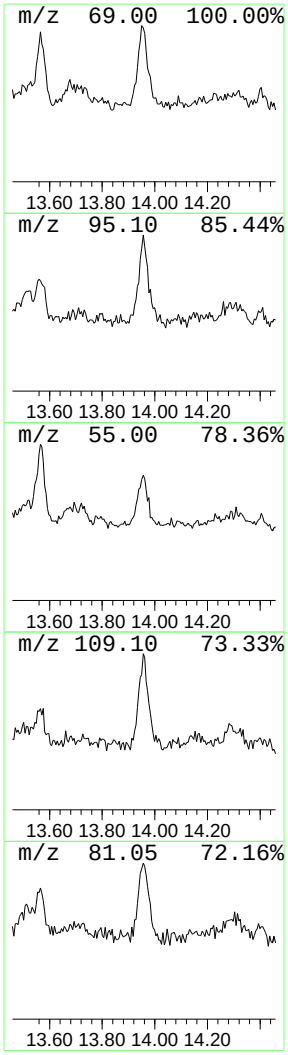
Peak Number 15 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.956	4.02 ppm	425857	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Friedelan-3-one	426	C30H50O	000559-74-0	95
2	5-Bromo-4-oxo-4,5,6,7-tetrahydro...	216	C6H5BrN2O2	300574-36-1	90
3	Cyclohexene, 4-pentyl-1-(4-propy...	276	C20H36	108067-17-0	50
4	Cyclohexanone, 2,3,3-trimethyl-2...	206	C14H22O	069296-90-8	25
5	2-(4a,8-Dimethyl-6-oxo-1,2,3,4,4...	234	C15H22O2	1000190-21-8	25





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7997.D
Acq On : 01 Jul 2024 03:54 pm
Operator : karimam
Sample : jd91204-12
Misc : op55759,ecj348,30.7,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown alcohol	10.570	6.5	ppm	785031	10	9.965	4817520	40.0
Alkane	11.083	18.0	ppm	1907920	11	11.276	4232680	40.0
Alkane	11.361	4.8	ppm	512519	11	11.276	4232680	40.0
Unknown	11.452	5.3	ppm	561243	11	11.276	4232680	40.0
Unknown alcohol	11.506	12.4	ppm	1312070	11	11.276	4232680	40.0
Alkane	11.677	34.7	ppm	3673110	11	11.276	4232680	40.0
Unknown alcohol	12.212	9.6	ppm	1016120	11	11.276	4232680	40.0
Alkane	12.415	15.0	ppm	1588100	11	11.276	4232680	40.0
Unknown alcohol	12.528	5.4	ppm	571176	11	11.276	4232680	40.0
Sitosterol	12.752	11.1	ppm	1175280	11	11.276	4232680	40.0
Unknown	13.004	4.5	ppm	481918	11	11.276	4232680	40.0
Unknown	13.137	6.0	ppm	640465	11	11.276	4232680	40.0
Unknown	13.325	5.3	ppm	565378	11	11.276	4232680	40.0
Unknown	13.565	5.3	ppm	563089	11	11.276	4232680	40.0
Unknown	13.956	4.0	ppm	425857	11	11.276	4232680	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 07/02/24 05:10

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13 Inst : GCMSCJ
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 02 02:08:53 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

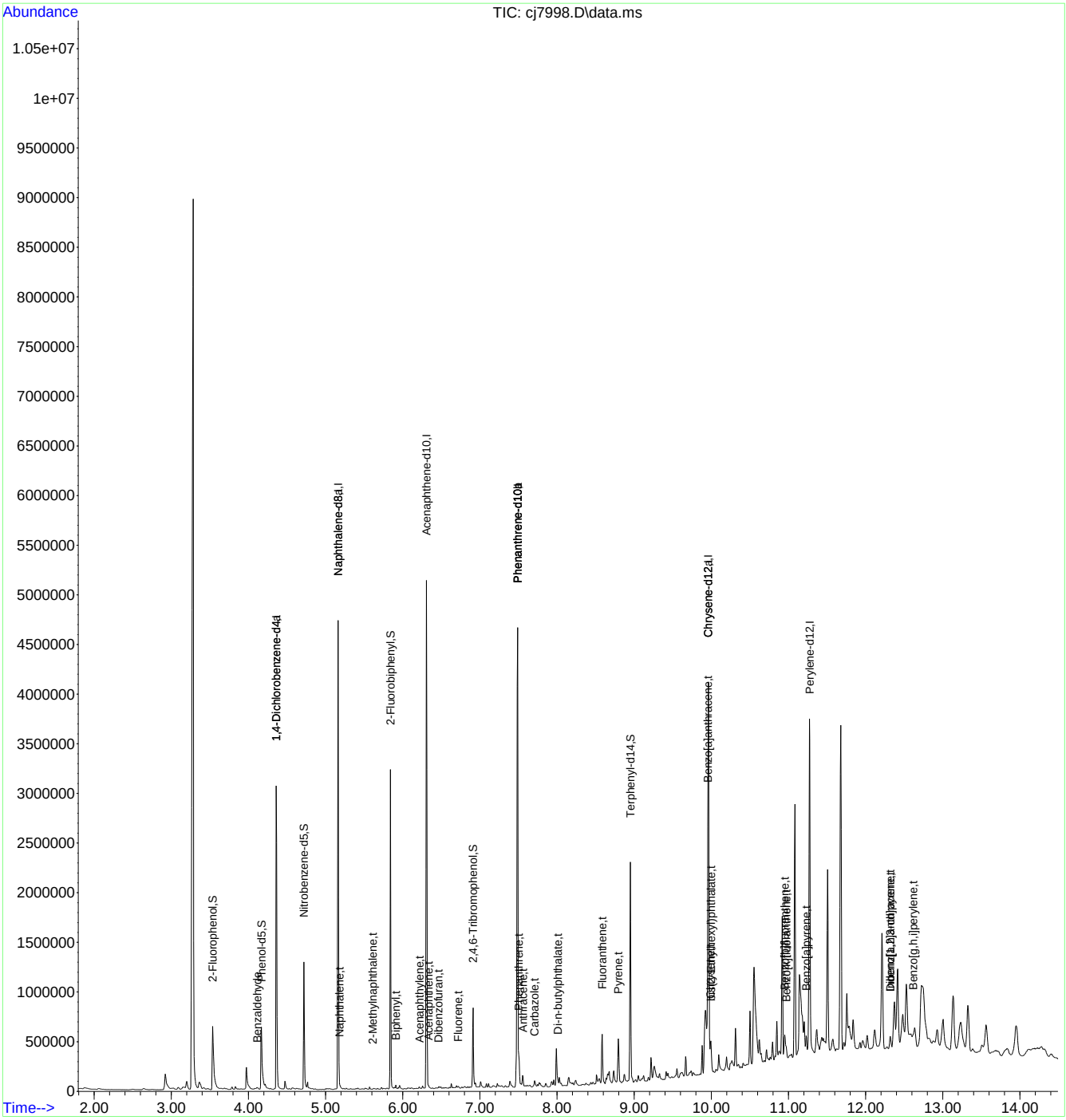
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.360	152	399328	40.00	ppm	0.00
24) Naphthalene-d8	5.162	136	1486784	40.00	ppm	0.00
46) Acenaphthene-d10	6.306	164	838596	40.00	ppm	0.00
69) Phenanthrene-d10	7.489	188	1568548	40.00	ppm	0.00
84) Chrysene-d12	9.960	240	1217162	40.00	ppm	0.00
93) Perylene-d12	11.275	264	1222333	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.360	152	399328	40.00	ppm	0.00
105) Phenanthrene-d10a	7.489	188	1568548	40.00	ppm	0.00
107) Naphthalene-d8a	5.162	136	1486784	40.00	ppm	0.00
109) Phenanthrene-d10b	7.489	188	1568548	40.00	ppm	0.00
112) Chrysene-d12a	9.960	240	1217162	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.536	112	208759	18.19	ppm	0.01
Spiked Amount 50.000			Recovery = 36.38%			
8) Phenol-d5	4.167	99	292751	19.77	ppm	0.01
Spiked Amount 50.000			Recovery = 39.54%			
25) Nitrobenzene-d5	4.718	82	334720	21.99	ppm	0.00
Spiked Amount 50.000			Recovery = 43.98%			
51) 2-Fluorobiphenyl	5.841	172	705400	26.73	ppm	0.00
Spiked Amount 50.000			Recovery = 53.46%			
74) 2,4,6-Tribromophenol	6.911	330	78691	22.88	ppm	0.00
Spiked Amount 50.000			Recovery = 45.76%			
87) Terphenyl-d14	8.949	244	676786	22.51	ppm	0.00
Spiked Amount 50.000			Recovery = 45.02%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
38) Naphthalene	5.178	128	3469	0.0974	ppm	97
44) 2-Methylnaphthalene	5.611	141	1279	0.0606	ppm	98
53) Biphenyl	5.911	154	2210	0.0767	ppm	98
56) Acenaphthylene	6.216	152	6727	0.2068	ppm	88
59) Acenaphthene	6.333	153	4731m	0.2045	ppm	
62) Dibenzofuran	6.462	168	1985	0.0618	ppm	95
66) Fluorene	6.718	166	4190m	0.1652	ppm	
78) Phenanthrene	7.505	178	93833	2.4753	ppm	99
79) Anthracene	7.558	178	12772	0.3365	ppm	99
80) Carbazole	7.708	167	8507	0.2405	ppm	98
81) Di-n-butylphthalate	8.007	149	7740	0.1771	ppm	98
82) Fluoranthene	8.585	202	193835	4.7232	ppm	99
86) Pyrene	8.794	202	168572	4.0724	ppm	99
89) Benzo[a]anthracene	9.954	228	65171	1.6653	ppm	97
91) Chrysene	9.986	228	78668	2.1788	ppm	98
92) bis(2-Ethylhexyl)phtha...	9.997	149	18499	0.6763	ppm	98
95) Benzo[b]fluoranthene	10.949	252	103046m	2.7907	ppm	
96) Benzo[k]fluoranthene	10.971	252	26493m	0.7973	ppm	
97) Benzo[a]pyrene	11.227	252	52880	1.7299	ppm	97
98) Indeno[1,2,3-cd]pyrene	12.318	276	37997	1.0282	ppm	85
100) Dibenz[a,h]anthracene	12.318	278	10642	0.3604	ppm	88
102) Benzo[g,h,i]perylene	12.613	276	36662	1.2767	ppm	98
104) Benzaldehyde	4.114	105	4451	0.3894	ppm	81

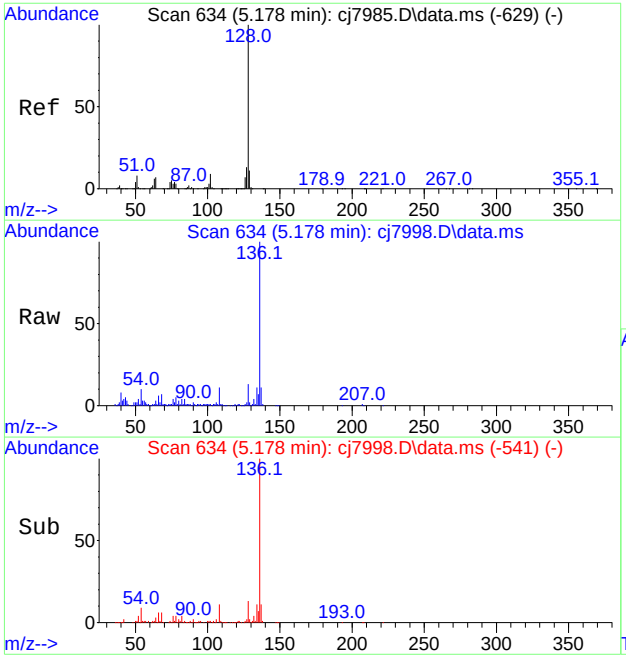
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13 Inst : GCMSCJ
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 02 02:08:53 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

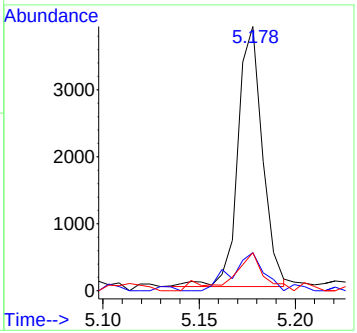


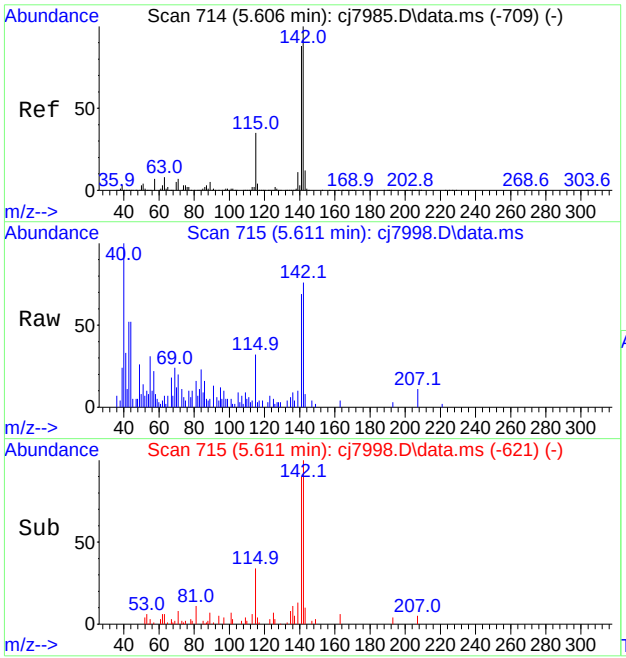


#38
Naphthalene
Concen: 0.0974 ppm
RT: 5.178 min Scan# 634
Delta R.T. -0.000 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:128 Resp: 3469

Ion	Ratio	Lower	Upper
128	100		
129	14.1	0.0	41.3
127	13.5	0.0	43.5

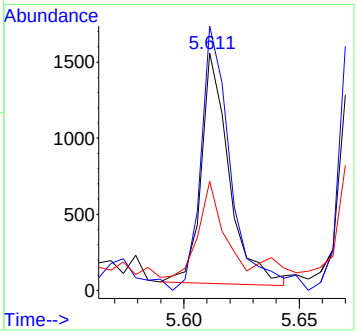


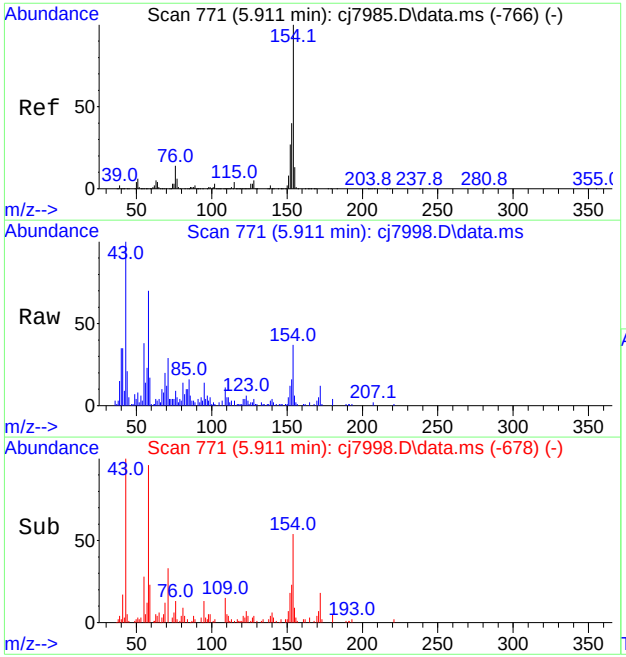


#44
2-Methylnaphthalene
Concen: 0.0606 ppm
RT: 5.611 min Scan# 715
Delta R.T. 0.005 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:141 Resp: 1279

Ion	Ratio	Lower	Upper
141	100		
142	111.8	83.7	143.7
115	40.3	9.3	69.3

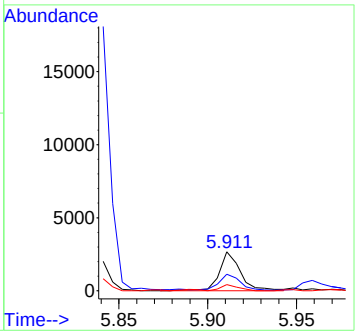


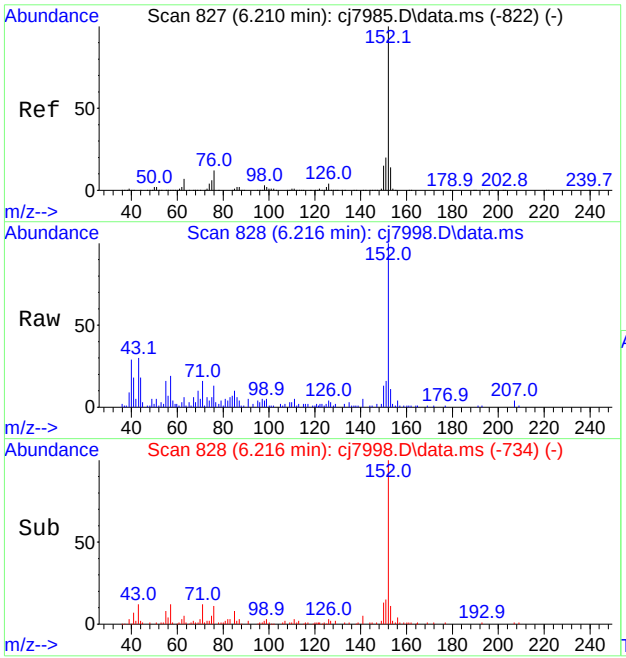


#53
Biphenyl
Concen: 0.0767 ppm
RT: 5.911 min Scan# 771
Delta R.T. -0.000 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:154 Resp: 2210

Ion	Ratio	Lower	Upper
154	100		
153	41.2	10.3	70.3
155	14.1	0.0	42.9

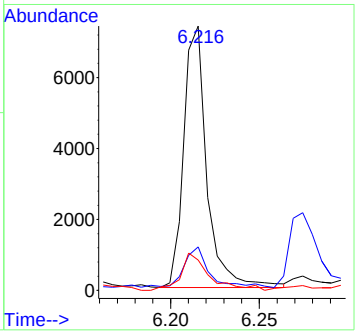


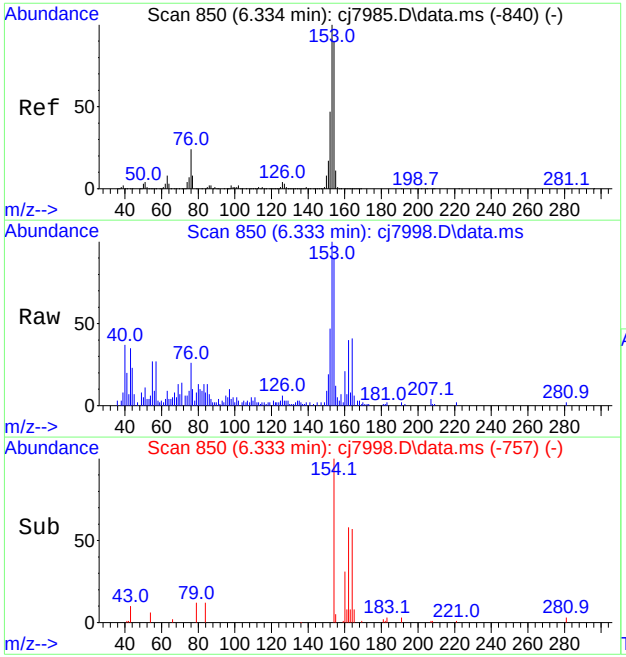


#56
Acenaphthylene
Concen: 0.2068 ppm
RT: 6.216 min Scan# 828
Delta R.T. 0.005 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:152 Resp: 6727

Ion	Ratio	Lower	Upper
152	100		
151	13.2	0.0	50.2
153	10.5	0.0	43.5

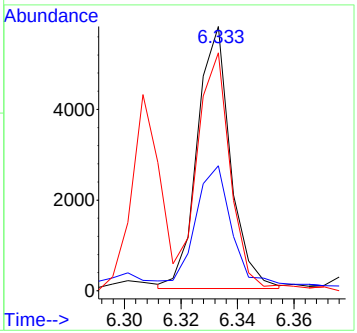


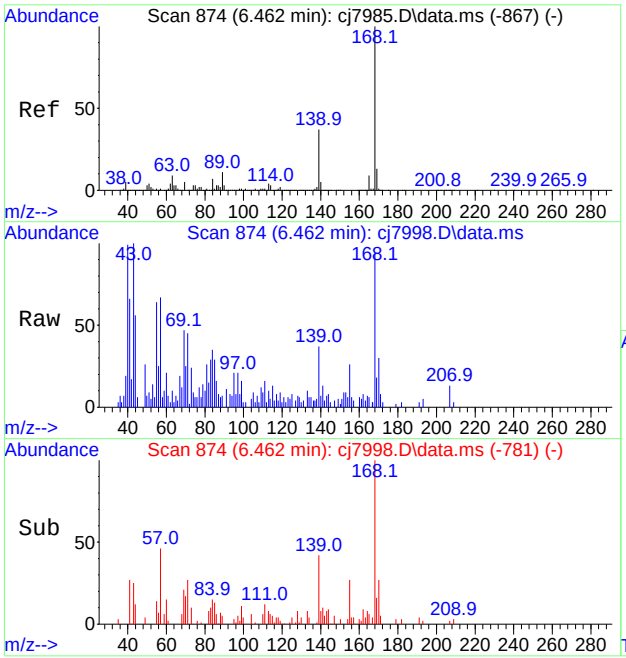


#59
Acenaphthene
Concen: 0.2045 ppm m
RT: 6.333 min Scan# 850
Delta R.T. -0.000 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:153 Resp: 4731

Ion	Ratio	Lower	Upper
153	100		
152	47.3	16.9	76.9
154	90.0	56.2	116.2

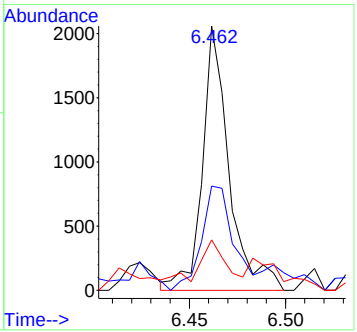


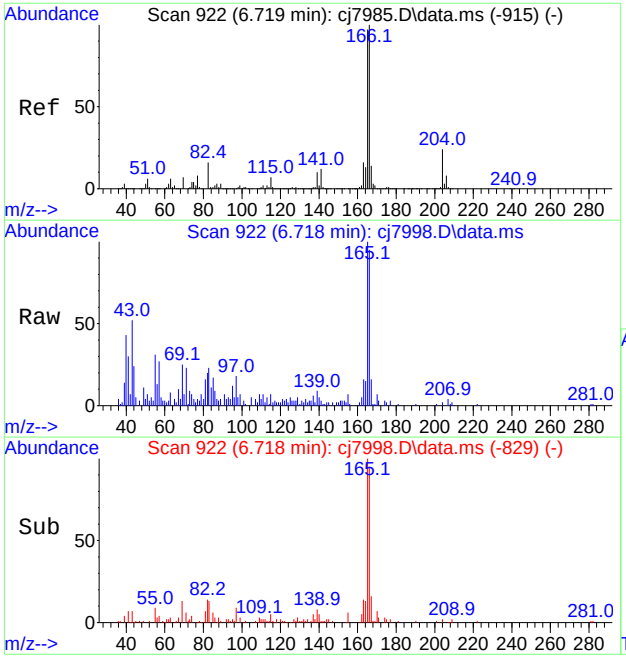


#62
Dibenzofuran
Concen: 0.0618 ppm
RT: 6.462 min Scan# 874
Delta R.T. -0.000 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:168 Resp: 1985

Ion	Ratio	Lower	Upper
168	100		
139	34.8	7.3	67.3
169	15.7	0.0	43.4

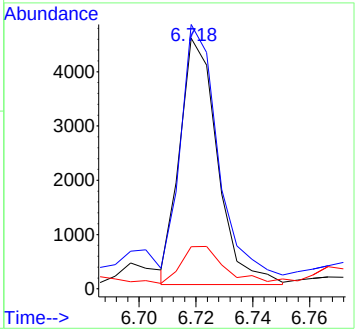


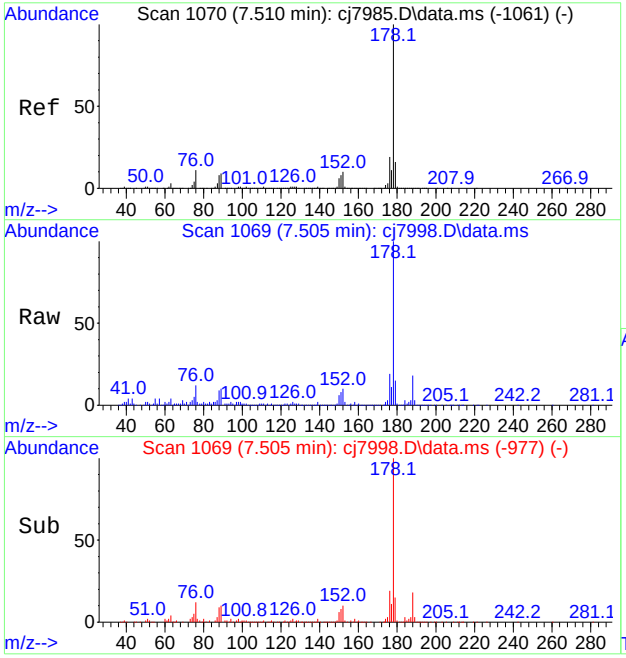


#66
Fluorene
Concen: 0.1652 ppm m
RT: 6.718 min Scan# 922
Delta R.T. -0.000 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:166 Resp: 4190

Ion	Ratio	Lower	Upper
166	100		
165	105.5	67.2	127.2
167	16.8	0.0	43.8

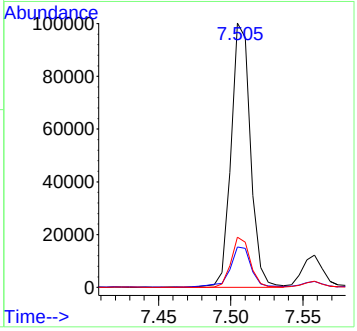


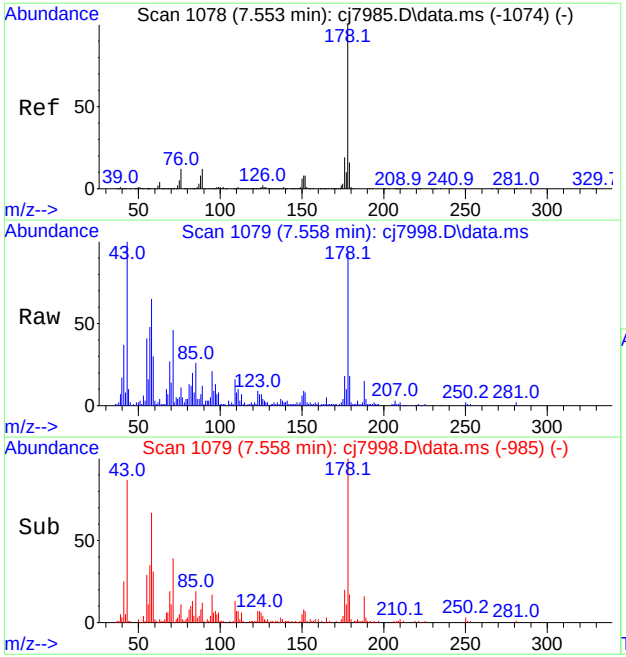


#78
Phenanthrene
Concen: 2.4753 ppm
RT: 7.505 min Scan# 1069
Delta R.T. -0.006 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:178 Resp: 93833

Ion	Ratio	Lower	Upper
178	100		
179	15.2	0.0	45.5
176	18.9	0.0	48.7

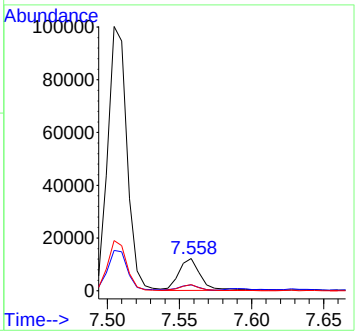


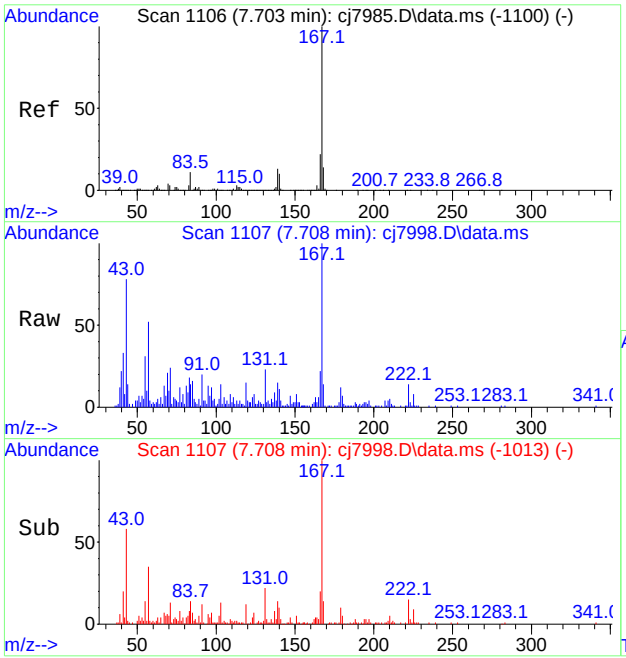


#79
Anthracene
Concen: 0.3365 ppm
RT: 7.558 min Scan# 1079
Delta R.T. 0.005 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:178 Resp: 12772

Ion	Ratio	Lower	Upper
178	100		
179	16.3	0.0	45.9
176	19.1	0.0	48.8

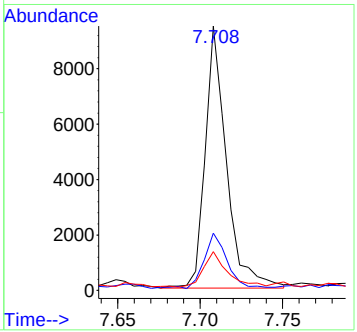


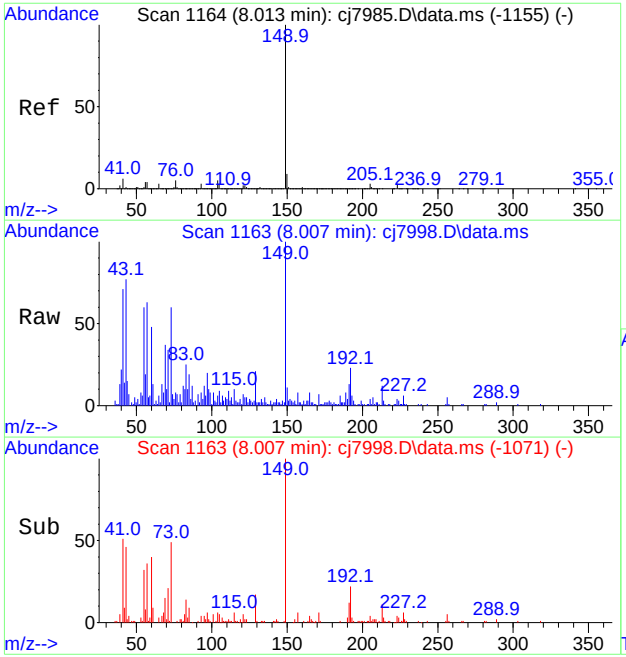


#80
Carbazole
Concen: 0.2405 ppm
RT: 7.708 min Scan# 1107
Delta R.T. 0.005 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:167 Resp: 8507

Ion	Ratio	Lower	Upper
167	100		
166	20.5	0.0	51.7
139	12.5	0.0	42.8

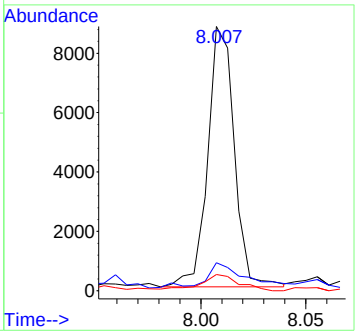


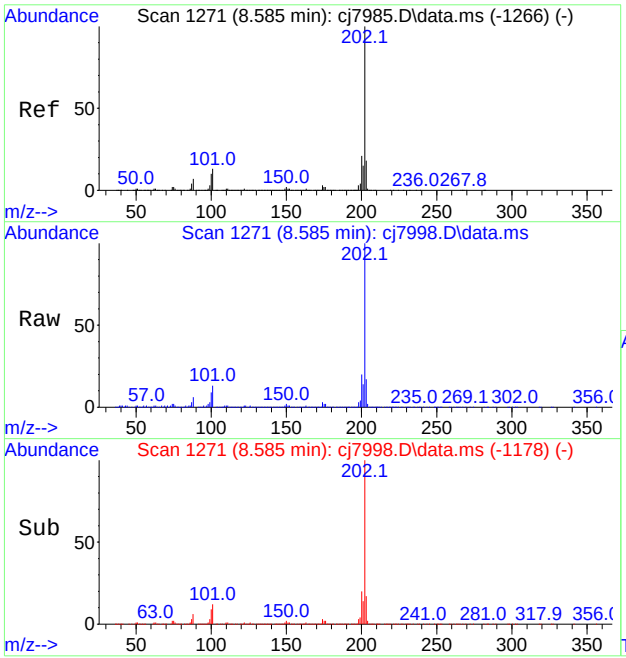


#81
Di-n-butylphthalate
Concen: 0.1771 ppm
RT: 8.007 min Scan# 1163
Delta R.T. -0.006 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:149 Resp: 7740

Ion	Ratio	Lower	Upper
149	100		
150	8.8	0.0	39.2
104	6.0	0.0	34.6

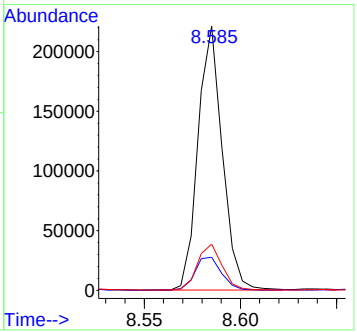


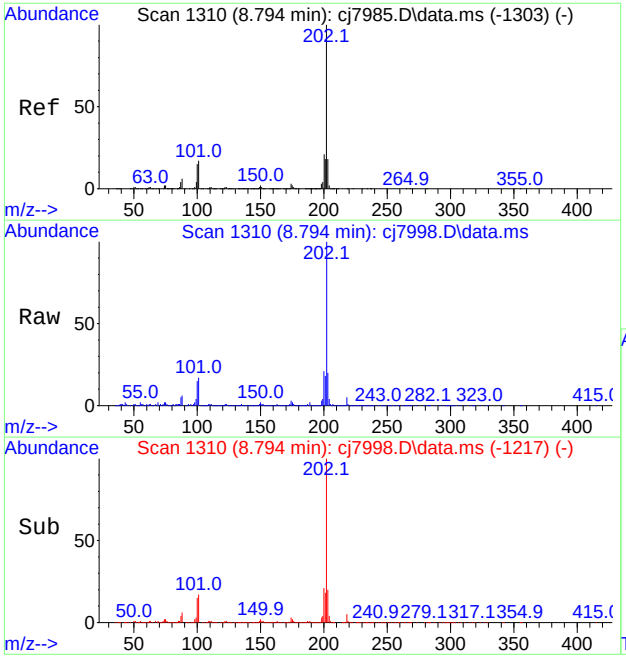


#82
Fluoranthene
Concen: 4.7232 ppm
RT: 8.585 min Scan# 1271
Delta R.T. -0.000 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:202 Resp: 193835

Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	42.9
203	17.4	0.0	47.5

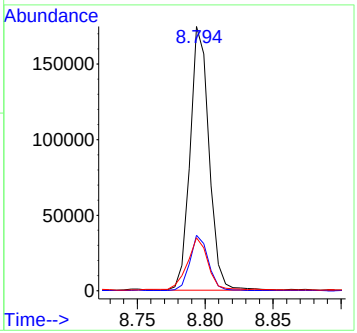


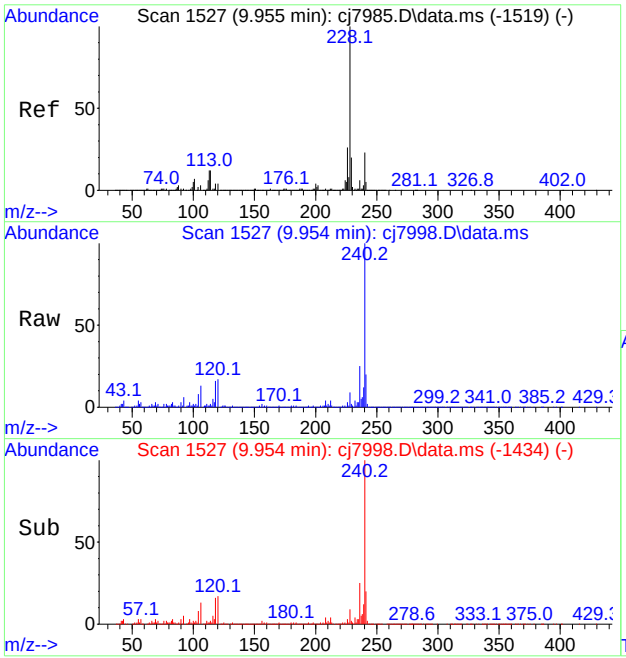


#86
Pyrene
Concen: 4.0724 ppm
RT: 8.794 min Scan# 1310
Delta R.T. -0.000 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:202 Resp: 168572

Ion	Ratio	Lower	Upper
202	100		
200	20.9	0.0	51.0
203	19.7	0.0	48.5

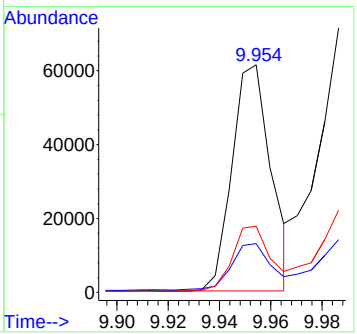


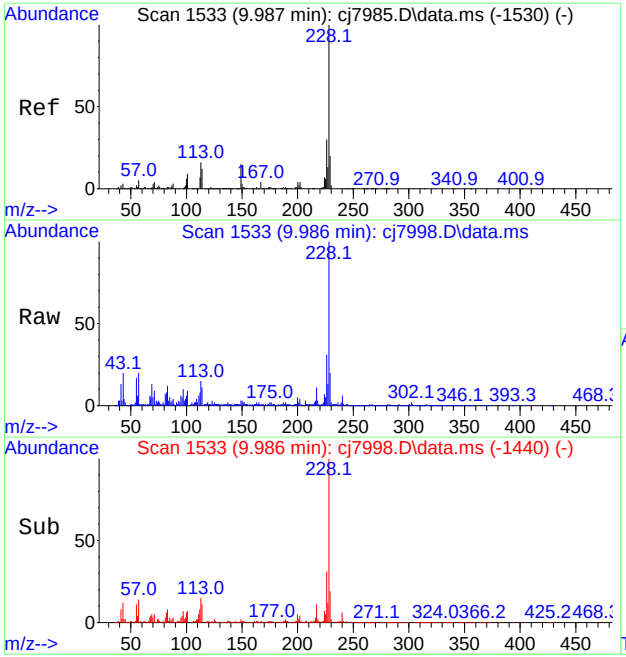


#89
Benzo[a]anthracene
Concen: 1.6653 ppm
RT: 9.954 min Scan# 1527
Delta R.T. -0.000 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:228 Resp: 65171

Ion	Ratio	Lower	Upper
228	100		
229	20.6	0.0	49.9
226	28.8	0.0	56.5

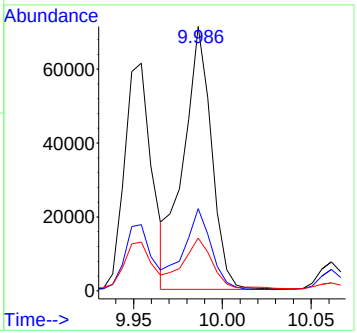


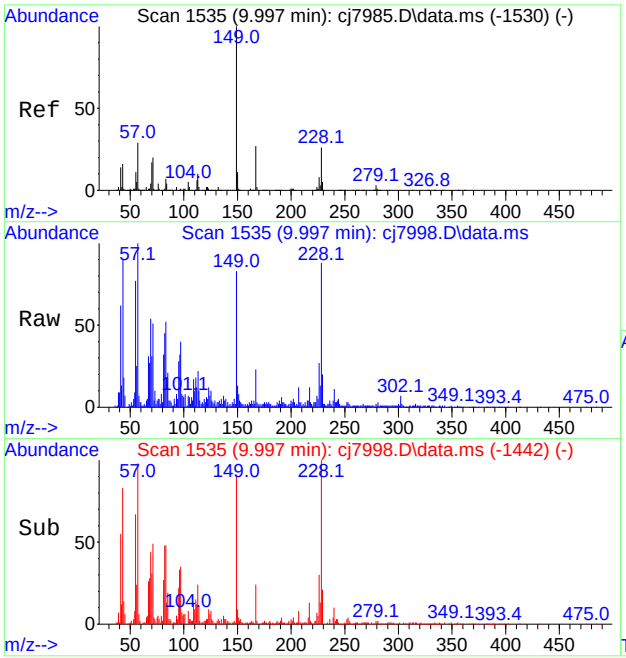


#91
Chrysene
Concen: 2.1788 ppm
RT: 9.986 min Scan# 1533
Delta R.T. -0.000 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:228 Resp: 78668

Ion	Ratio	Lower	Upper
228	100		
226	30.8	0.3	60.3
229	19.0	0.0	50.3

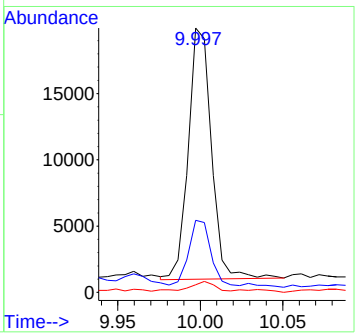


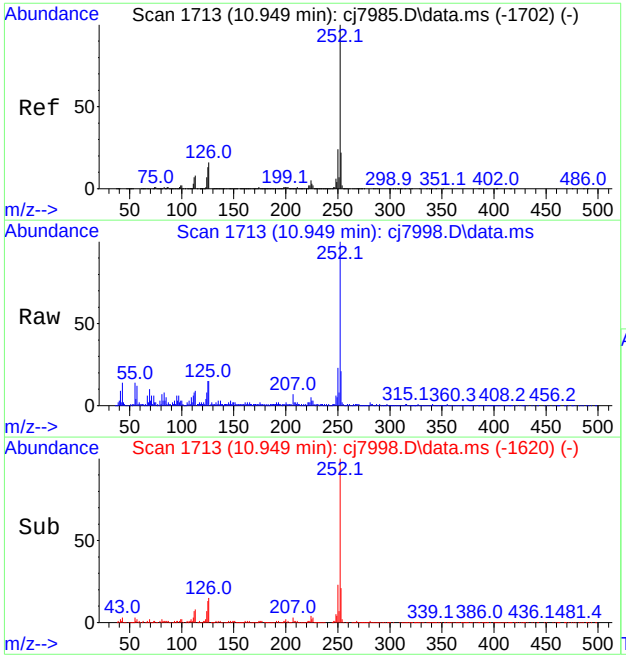


#92
bis(2-Ethylhexyl)phthalate
Concen: 0.6763 ppm
RT: 9.997 min Scan# 1535
Delta R.T. -0.000 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:149 Resp: 18499

Ion	Ratio	Lower	Upper
149	100		
167	25.9	0.0	56.9
279	2.6	0.0	33.4

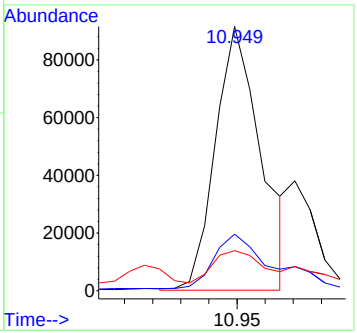


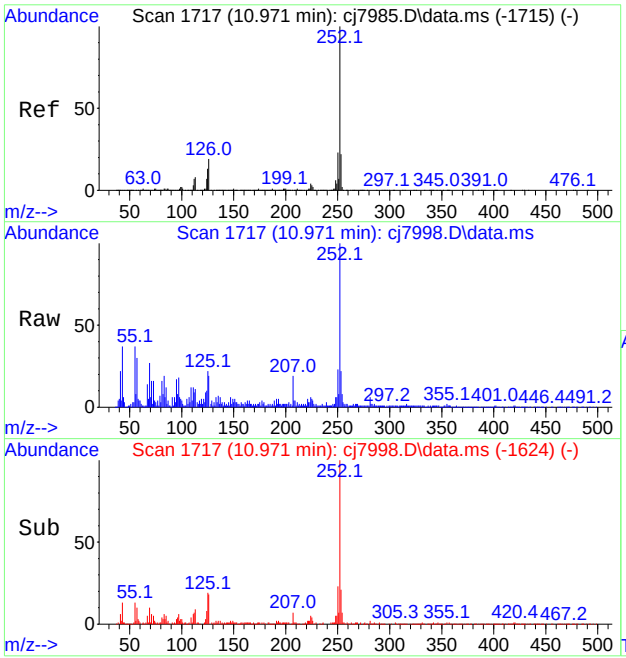


#95
Benzo[b]fluoranthene
Concen: 2.7907 ppm m
RT: 10.949 min Scan# 1713
Delta R.T. -0.000 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:252 Resp: 103046

Ion	Ratio	Lower	Upper
252	100		
253	21.4	0.0	52.5
125	15.2	0.0	42.4

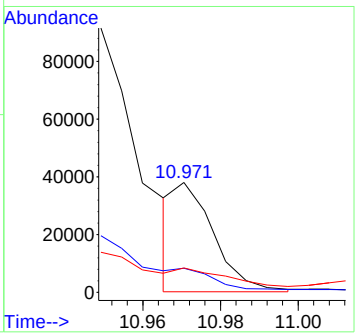


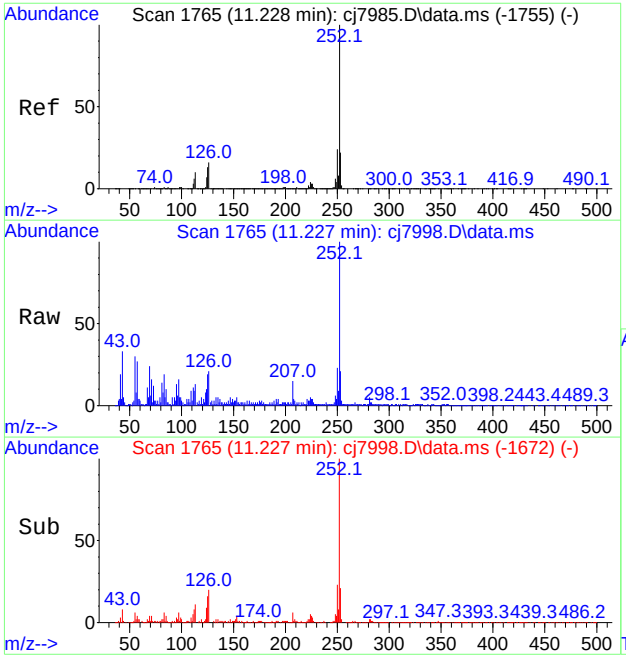


#96
Benzo[k]fluoranthene
Concen: 0.7973 ppm m
RT: 10.971 min Scan# 1717
Delta R.T. -0.000 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:252 Resp: 26493

Ion	Ratio	Lower	Upper
252	100		
253	22.1	0.0	51.7
125	22.3	0.0	43.5

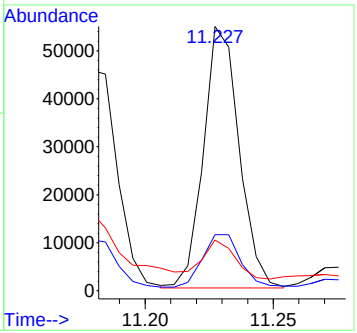


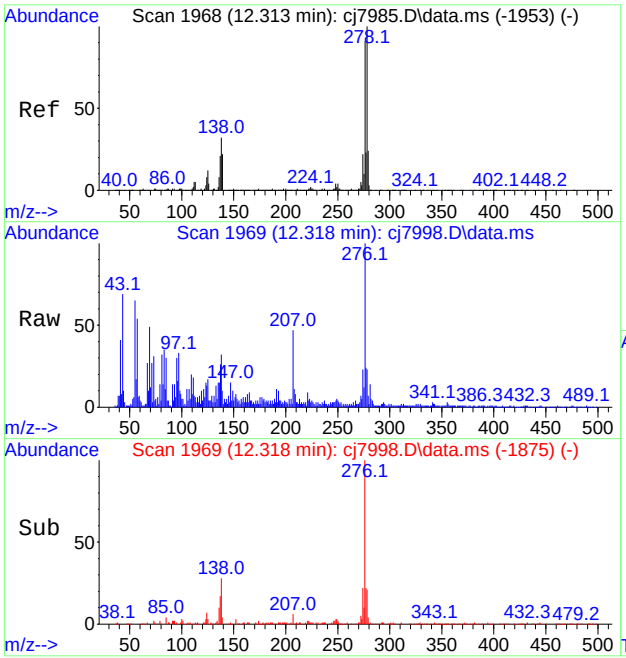


#97
Benzo[a]pyrene
Concen: 1.7299 ppm
RT: 11.227 min Scan# 1765
Delta R.T. -0.000 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:252 Resp: 52880

Ion	Ratio	Lower	Upper
252	100		
253	20.0	0.0	52.1
125	12.5	0.0	42.5

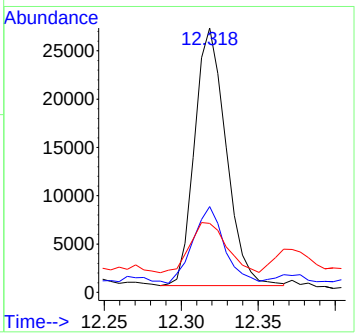


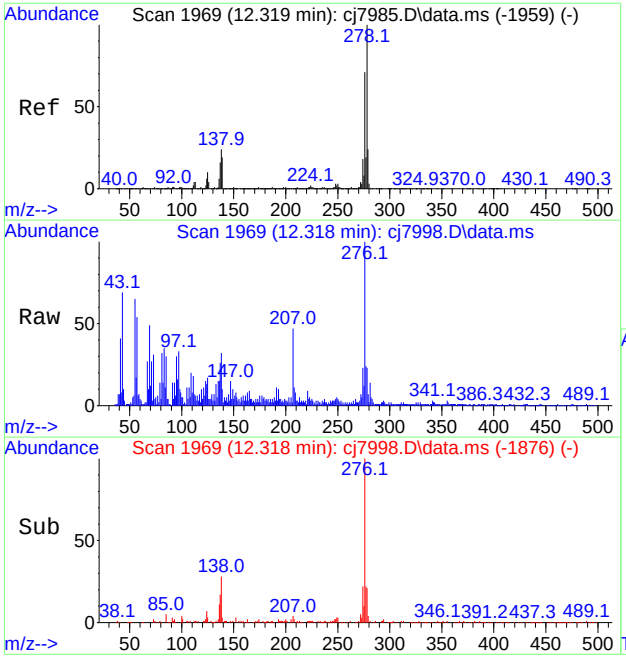


#98
Indeno[1,2,3-cd]pyrene
Concen: 1.0282 ppm
RT: 12.318 min Scan# 1969
Delta R.T. 0.005 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:276 Resp: 37997

Ion	Ratio	Lower	Upper
276	100		
138	27.8	5.2	65.2
137	14.7	0.0	53.3

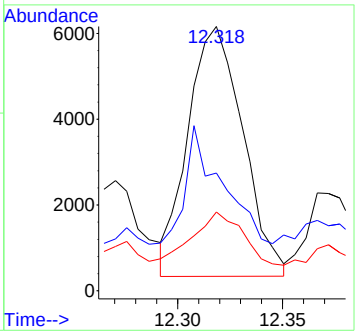


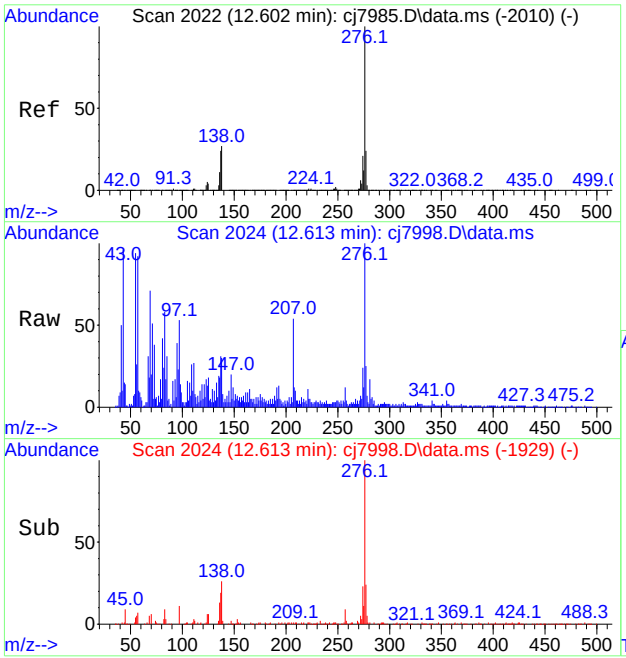


#100
Dibenz[a,h]anthracene
Concen: 0.3604 ppm
RT: 12.318 min Scan# 1969
Delta R.T. -0.000 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:278 Resp: 10642

Ion	Ratio	Lower	Upper
278	100		
139	29.1	0.0	48.9
279	22.1	0.0	53.7

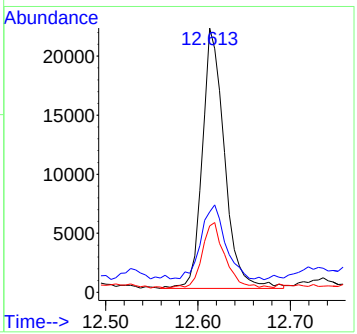


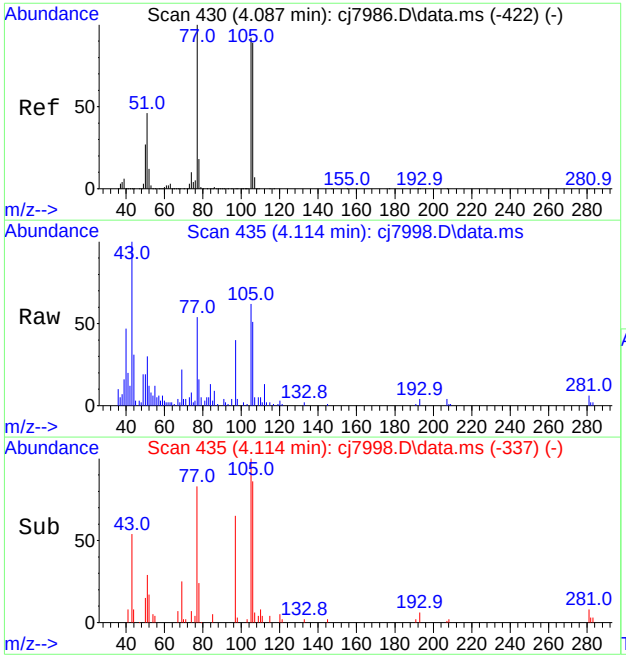


#102
Benzo[g,h,i]perylene
Concen: 1.2767 ppm
RT: 12.613 min Scan# 2024
Delta R.T. 0.010 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:276 Resp: 36662

Ion	Ratio	Lower	Upper
276	100		
138	25.6	0.0	57.0
277	23.2	0.0	53.6

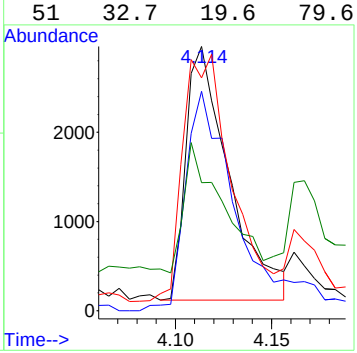




#104
Benzaldehyde
Concen: 0.3894 ppm
RT: 4.114 min Scan# 435
Delta R.T. 0.026 min
Lab File: cj7998.D
Acq: 01 Jul 2024 04:12 pm

Tgt Ion:105 Resp: 4451

Ion	Ratio	Lower	Upper
105	100		
106	84.0	66.2	126.2
77	85.0	78.1	138.1
51	32.7	19.6	79.6



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj7998.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.167	441	445	453	rBV	626988	774690	17.81%	1.161%
2	4.215	453	454	465	rVB	50816	61046	1.40%	0.092%
3	4.360	473	481	499	rBV	3055898	2386138	54.85%	3.577%
4	4.472	499	502	510	rVB	79388	73411	1.69%	0.110%
5	4.718	541	548	554	rBV	1280555	930558	21.39%	1.395%
6	4.766	554	557	567	rVB	67312	65088	1.50%	0.098%
7	5.162	626	631	642	rBV	4720799	3108134	71.45%	4.659%
8	5.841	753	758	766	rBV	3216506	2080907	47.84%	3.119%
9	5.959	774	780	789	rVB2	38797	56490	1.30%	0.085%
10	6.307	841	845	857	rVB	5118232	3687039	84.76%	5.526%
11	6.911	953	958	962	rBV	802733	697473	16.03%	1.045%
12	7.007	973	976	984	rVB	58886	63796	1.47%	0.096%
13	7.387	1040	1047	1058	rVB4	62565	96237	2.21%	0.144%
14	7.489	1058	1066	1075	rBV	4629974	4350102	100.00%	6.520%
15	7.553	1075	1078	1082	rVB	108321	95955	2.21%	0.144%
16	7.708	1101	1107	1112	rBV3	65397	91473	2.10%	0.137%
17	7.767	1116	1118	1128	rVB4	45845	76982	1.77%	0.115%
18	7.933	1142	1149	1151	rBV2	54404	70389	1.62%	0.106%
19	7.959	1151	1154	1157	rVB2	58104	48263	1.11%	0.072%
20	7.991	1157	1160	1165	rBV2	372975	349374	8.03%	0.524%
21	8.029	1165	1167	1175	rVB	83330	98708	2.27%	0.148%
22	8.152	1185	1190	1198	rBV2	84109	151028	3.47%	0.226%
23	8.243	1202	1207	1216	rVB4	52742	78903	1.81%	0.118%
24	8.510	1252	1257	1260	rBV	97135	98828	2.27%	0.148%
25	8.548	1260	1264	1267	rVB4	43297	53683	1.23%	0.080%
26	8.585	1267	1271	1278	rVB	500146	463969	10.67%	0.695%
27	8.676	1278	1288	1294	rBV4	126961	308245	7.09%	0.462%
28	8.735	1294	1299	1306	rBV3	124692	154678	3.56%	0.232%
29	8.794	1306	1310	1318	rVB	444196	449939	10.34%	0.674%
30	8.869	1318	1324	1332	rBV3	84093	130005	2.99%	0.195%
31	8.949	1332	1339	1347	rVB	2218347	1972592	45.35%	2.957%
32	9.050	1355	1358	1363	rBV2	64717	75119	1.73%	0.113%
33	9.120	1368	1371	1375	rVB	55514	56531	1.30%	0.085%
34	9.216	1385	1389	1392	rBV	229883	200990	4.62%	0.301%
35	9.259	1392	1397	1407	rBV4	119142	218361	5.02%	0.327%
36	9.329	1408	1410	1418	rVB3	62305	70481	1.62%	0.106%
37	9.414	1418	1426	1428	rBV	83743	88206	2.03%	0.132%
38	9.436	1428	1430	1436	rVB4	49714	44979	1.03%	0.067%
39	9.553	1442	1452	1457	rBV2	93590	112558	2.59%	0.169%
40	9.612	1457	1463	1468	rBV7	54853	135886	3.12%	0.204%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.665	1469	1473	1477	rBV	194785	163351	3.76%	0.245%
42	9.735	1477	1486	1489	rVB3	50840	94938	2.18%	0.142%
43	9.767	1489	1492	1499	rBV3	34526	55546	1.28%	0.083%
44	9.879	1505	1513	1516	rBV2	297048	255103	5.86%	0.382%
45	9.922	1516	1521	1524	rBV2	633463	1179027	27.10%	1.767%
46	9.960	1524	1528	1532	rVB	3696972	3656954	84.07%	5.481%
47	9.992	1532	1534	1544	rVB3	318318	371352	8.54%	0.557%
48	10.093	1549	1553	1566	rBV	165076	212255	4.88%	0.318%
49	10.195	1566	1572	1579	rBV4	139809	182882	4.20%	0.274%
50	10.265	1579	1585	1590	rBV3	96375	234945	5.40%	0.352%
51	10.313	1590	1594	1598	rBV	378825	314632	7.23%	0.472%
52	10.350	1598	1601	1605	rVB	39786	45415	1.04%	0.068%
53	10.414	1610	1613	1616	rBV4	48014	64904	1.49%	0.097%
54	10.500	1623	1629	1634	rBV	542970	475591	10.93%	0.713%
55	10.553	1634	1639	1649	rBV	976644	2230606	51.28%	3.343%
56	10.623	1649	1652	1661	rVB3	222088	328706	7.56%	0.493%
57	10.714	1666	1669	1675	rBV2	124277	155939	3.58%	0.234%
58	10.794	1680	1684	1687	rVB	184188	176073	4.05%	0.264%
59	10.848	1687	1694	1697	rBV	392277	401290	9.22%	0.601%
60	10.880	1697	1700	1703	rBV4	39950	49158	1.13%	0.074%
61	10.917	1703	1707	1710	rVB	1391239	1139926	26.20%	1.709%
62	10.949	1710	1713	1721	rVB	233293	371476	8.54%	0.557%
63	11.083	1732	1738	1742	rBV	2554731	2257010	51.88%	3.383%
64	11.142	1742	1749	1758	rBV3	810099	1958658	45.03%	2.936%
65	11.201	1758	1760	1763	rVB	249928	237281	5.45%	0.356%
66	11.227	1763	1765	1768	rVB	141121	118570	2.73%	0.178%
67	11.270	1768	1773	1785	rVB	3364782	3679686	84.59%	5.515%
68	11.366	1785	1791	1797	rBV2	236640	400881	9.22%	0.601%
69	11.431	1797	1803	1805	rBV2	124478	191971	4.41%	0.288%
70	11.505	1813	1817	1823	rVB	1822547	1798885	41.35%	2.696%
71	11.575	1823	1830	1836	rVB5	118970	211738	4.87%	0.317%
72	11.677	1842	1849	1854	rBV	3267707	3583063	82.37%	5.371%
73	11.714	1854	1856	1859	rBV3	72567	81856	1.88%	0.123%
74	11.757	1859	1864	1867	rBV	530841	665809	15.31%	0.998%
75	11.837	1875	1879	1889	rVB2	293908	430547	9.90%	0.645%
76	11.928	1890	1896	1898	rBV4	64030	73098	1.68%	0.110%
77	11.960	1898	1902	1909	rBV7	75814	130883	3.01%	0.196%
78	12.019	1909	1913	1920	rVB	140891	182769	4.20%	0.274%
79	12.115	1920	1931	1940	rBV2	196007	401324	9.23%	0.602%
80	12.211	1940	1949	1957	rVB	1164040	1658880	38.13%	2.486%
81	12.318	1965	1969	1973	rBV2	124923	163876	3.77%	0.246%
82	12.372	1973	1979	1982	rBV2	455391	724112	16.65%	1.085%
83	12.415	1982	1987	1992	rVB	740869	1085641	24.96%	1.627%
84	12.479	1992	1999	2004	rBV4	283198	585213	13.45%	0.877%
85	12.527	2004	2008	2016	rVB	505883	711084	16.35%	1.066%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.634	2022	2028	2035	rVB2	190264	406156	9.34%	0.609%
87	12.725	2035	2045	2060	rBV7	617340	2433462	55.94%	3.647%
88	12.928	2078	2083	2089	rVB3	158177	269767	6.20%	0.404%
89	13.003	2089	2097	2113	rVB8	307271	754628	17.35%	1.131%
90	13.131	2113	2121	2129	rBV2	544063	1043199	23.98%	1.564%
91	13.233	2129	2140	2151	rBV7	264462	820041	18.85%	1.229%
92	13.324	2151	2157	2165	rVB2	461363	885543	20.36%	1.327%
93	13.388	2165	2169	2177	rVB4	38141	68503	1.57%	0.103%
94	13.506	2180	2191	2194	rBV10	74493	145554	3.35%	0.218%
95	13.559	2194	2201	2210	rVB2	286885	664904	15.28%	0.997%
96	13.688	2212	2225	2227	rBV2	29429	79397	1.83%	0.119%
97	13.832	2239	2252	2262	rBV2	74997	295503	6.79%	0.443%
98	13.950	2262	2274	2289	rVB4	305244	871768	20.04%	1.307%
99	14.121	2289	2306	2309	rBV8	69324	259066	5.96%	0.388%
100	14.404	2353	2359	2369	rVB7	38782	98758	2.27%	0.148%

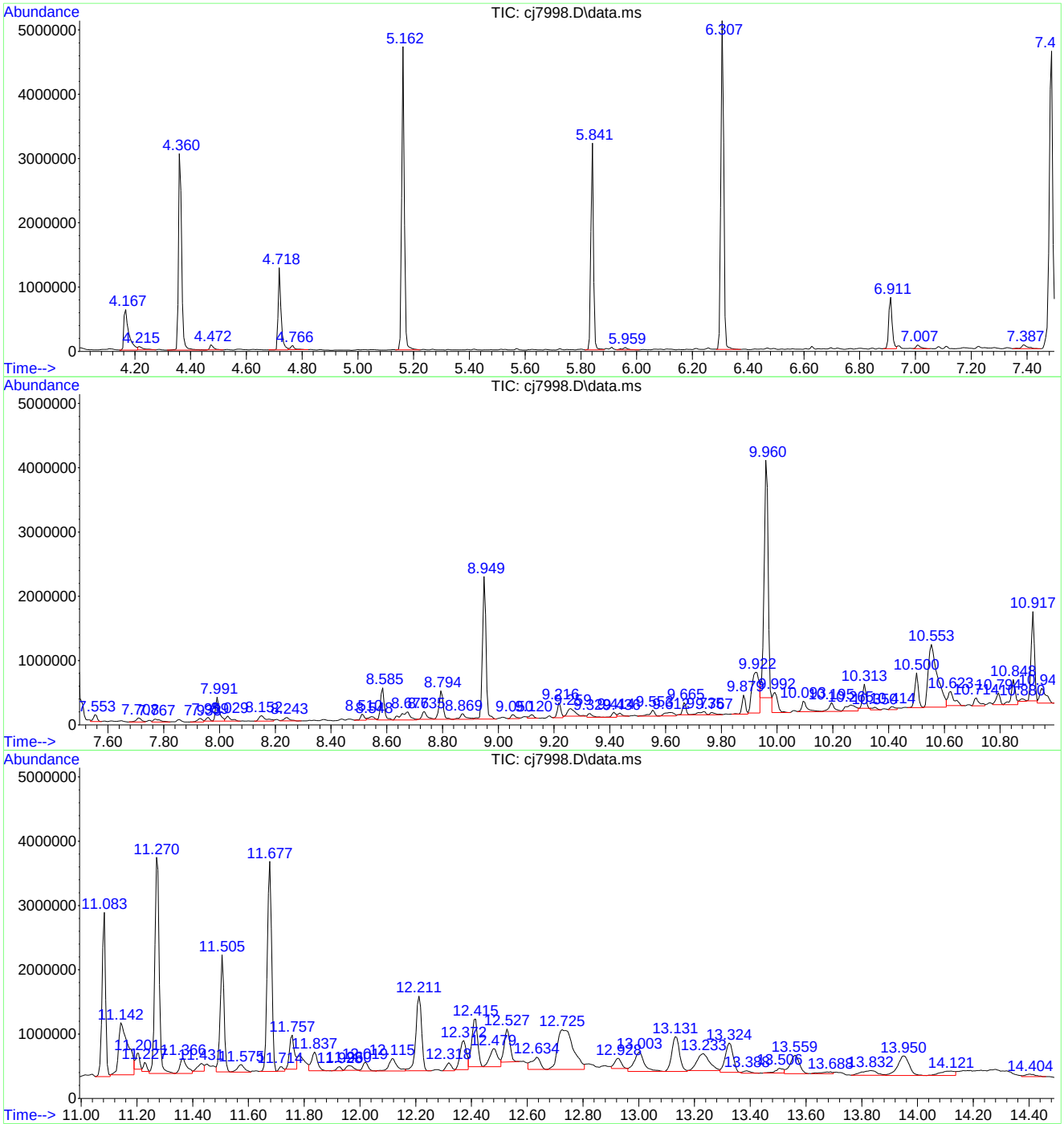
Sum of corrected areas: 66716387

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

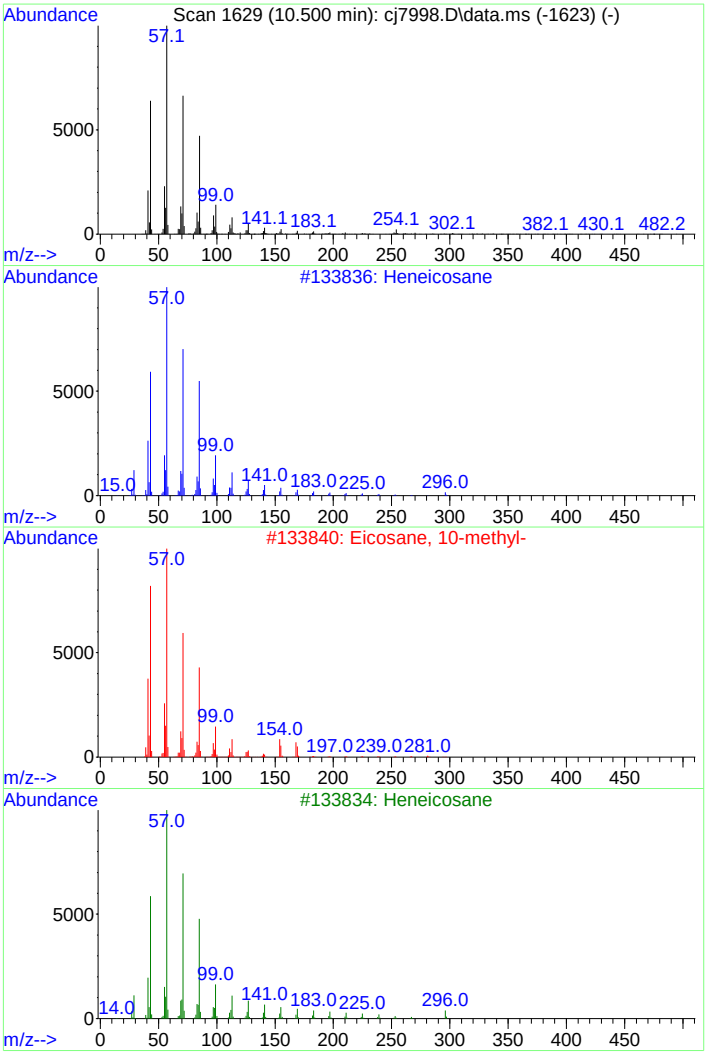
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

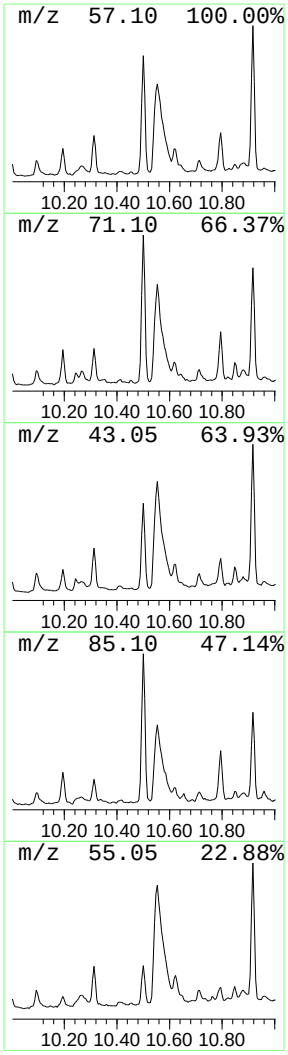
****

Peak Number 1 Alkane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.500	5.20 ppm	475591	Chrysene-d12a	9.960

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	96
2	Eicosane, 10-methyl-	296	C21H44	054833-23-7	94
3	Heneicosane	296	C21H44	000629-94-7	94
4	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	94
5	Heptacosane	380	C27H56	000593-49-7	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

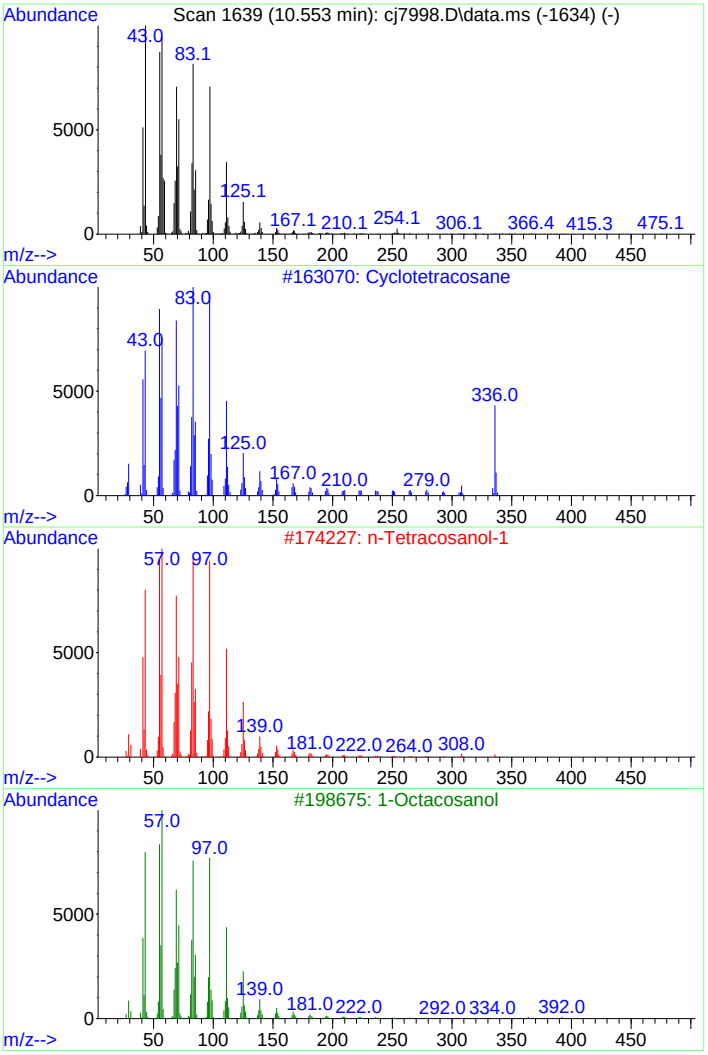
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

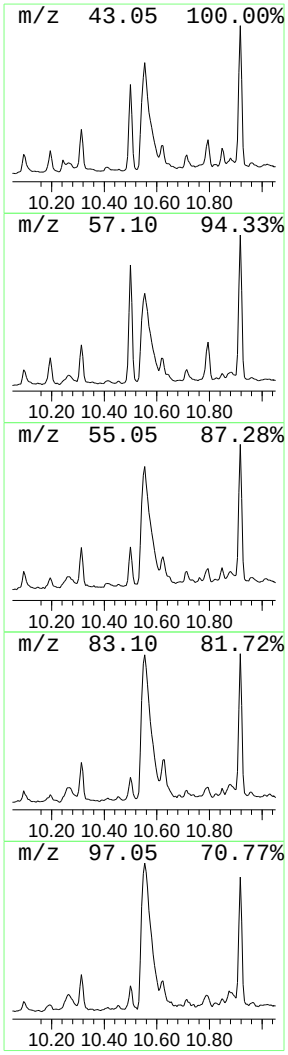
****

Peak Number 2 Unknown alcohol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.553	24.40 ppm	2230610	Chrysene-d12a	9.960

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetracosane	336	C24H48	000297-03-0	98
2	n-Tetracosanol-1	354	C24H50O	000506-51-4	93
3	1-Octacosanol	410	C28H58O	1000351-79-2	90
4	1-Heptacosanol	396	C27H56O	002004-39-9	90
5	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	1000351-82-9	87





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

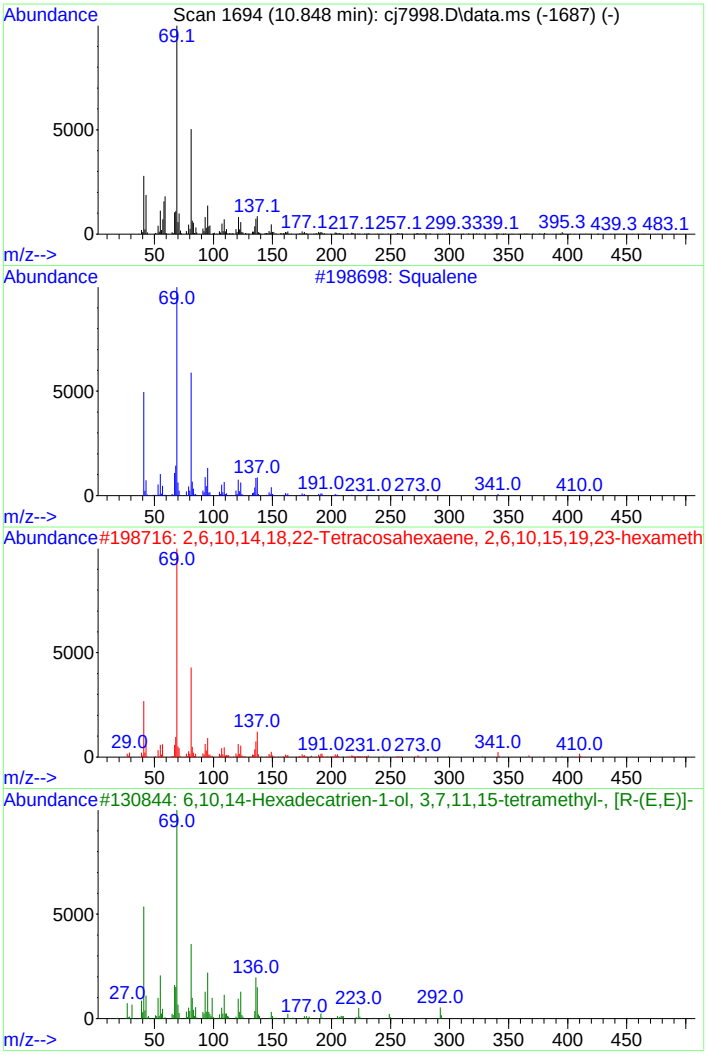
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

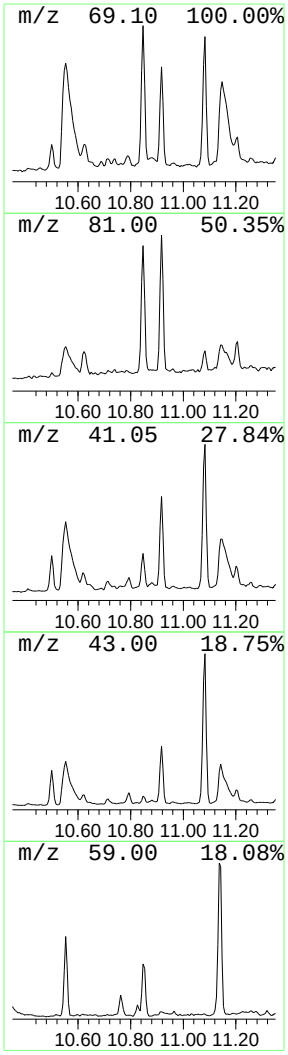
****

Peak Number 3 Unknown Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.848	4.36 ppm	401290	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Squalene	410	C30H50	007683-64-9	90
2	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	72
3	6,10,14-Hexadecatrien-1-ol, 3,7,...	292	C20H36O	036237-66-8	64
4	2-Butenoic acid, 2-propenyl ester	126	C7H10O2	020474-93-5	52
5	3-Ethyl-1,5-octadiene	138	C10H18	1000114-87-7	50





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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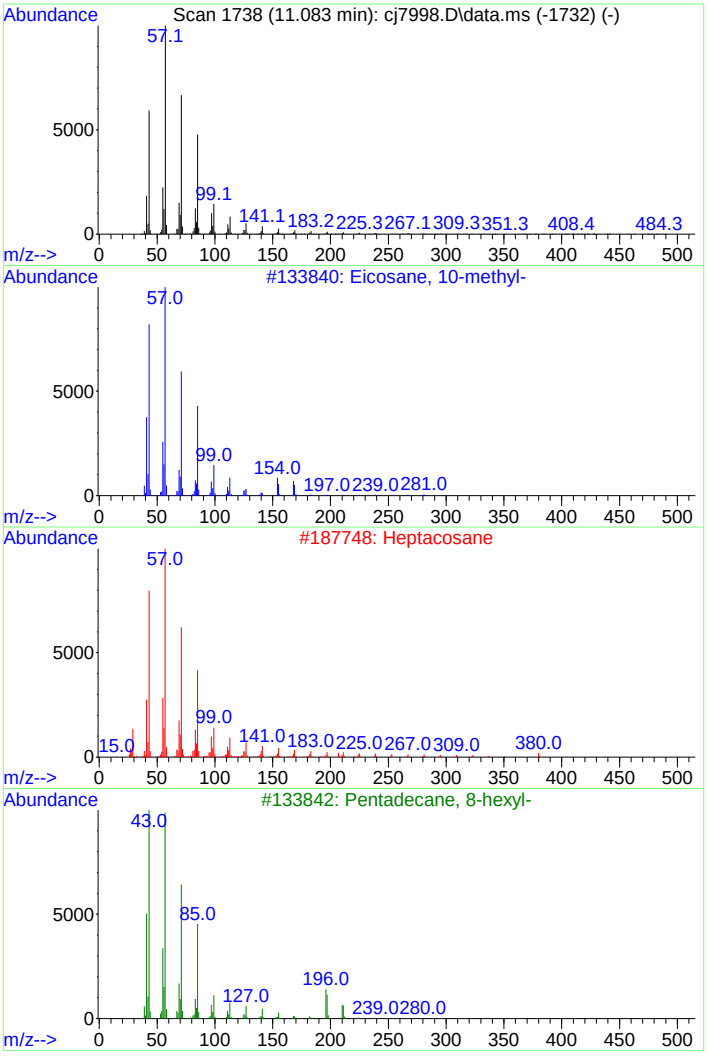
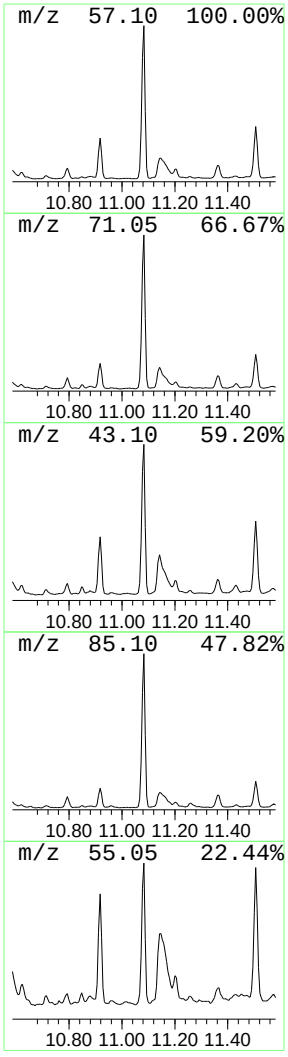
Peak Number 4 Alkane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.083	24.53 ppm	2257010	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane, 10-methyl-	296	C21H44	054833-23-7	94
2	Heptacosane	380	C27H56	000593-49-7	93
3	Pentadecane, 8-hexyl-	296	C21H44	013475-75-7	93
4	Heneicosane	296	C21H44	000629-94-7	91
5	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	91





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Sample : jd91204-13
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ALS Vial : 14 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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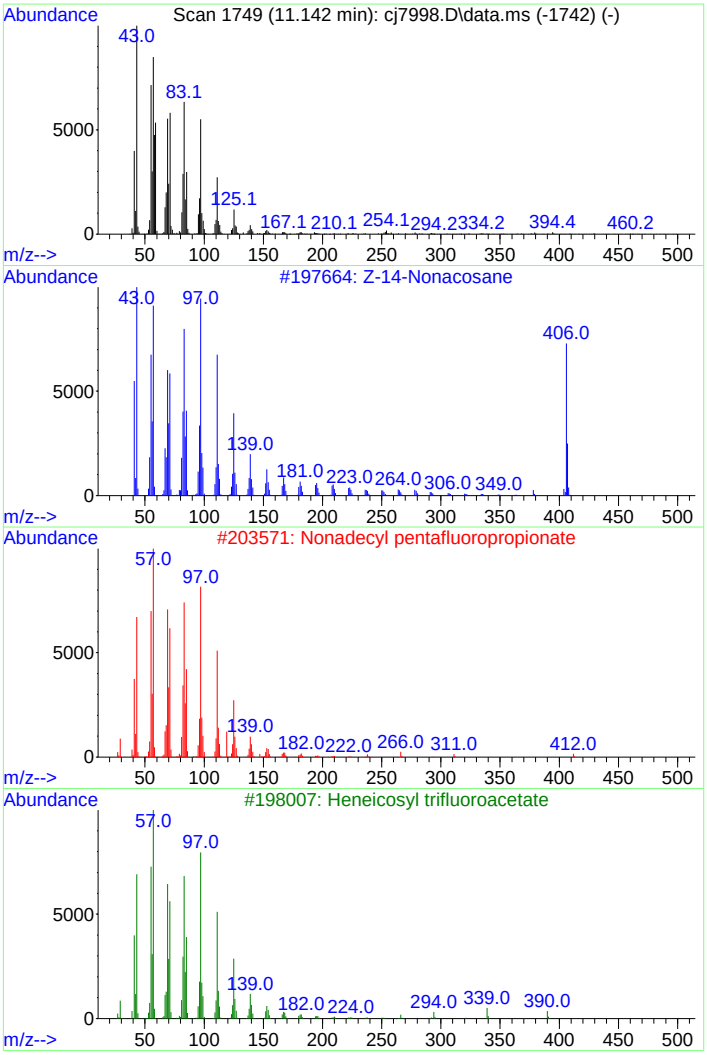
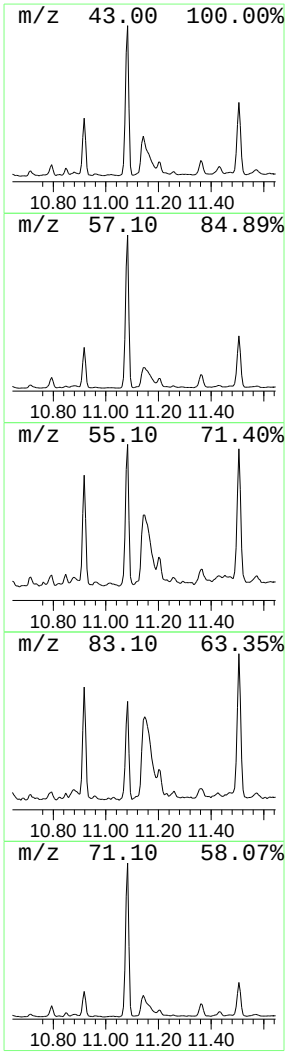
Peak Number 5 Unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.142	21.29 ppm	1958660	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Z-14-Nonacosane	406	C29H58	1000131-18-9	93
2	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	70
3	Heneicosyl trifluoroacetate	408	C23H43F3O2	1000351-76-5	62
4	17-Pentatriacontene	491	C35H70	006971-40-0	62
5	1-Heneicosanol	312	C21H44O	015594-90-8	60





Library Search Compound Report

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Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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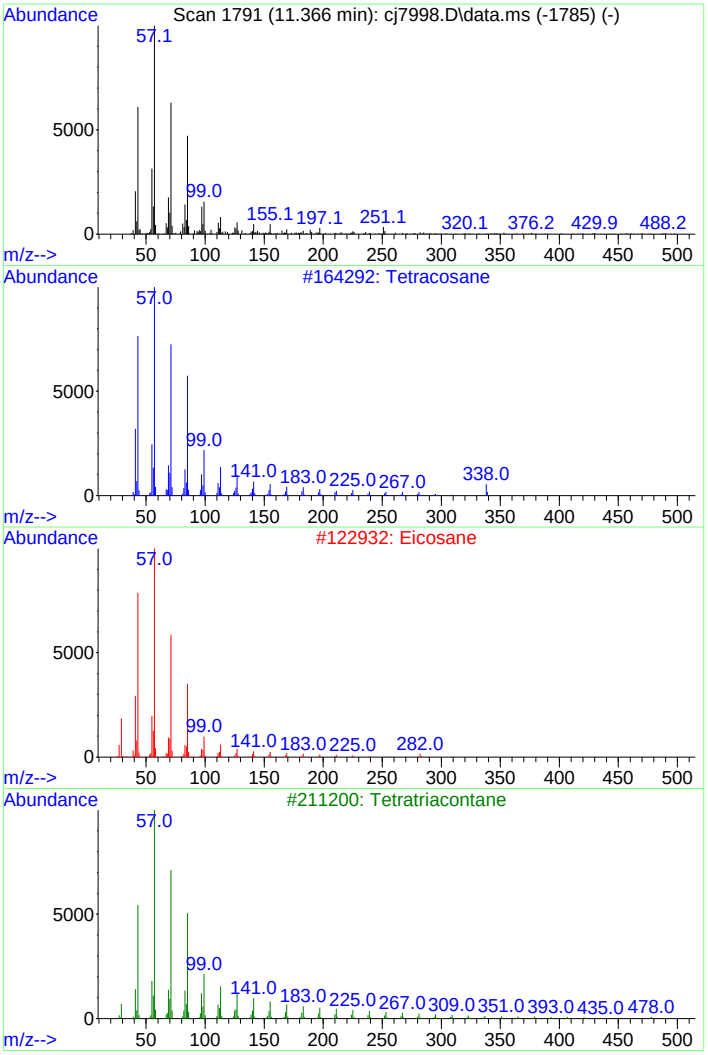
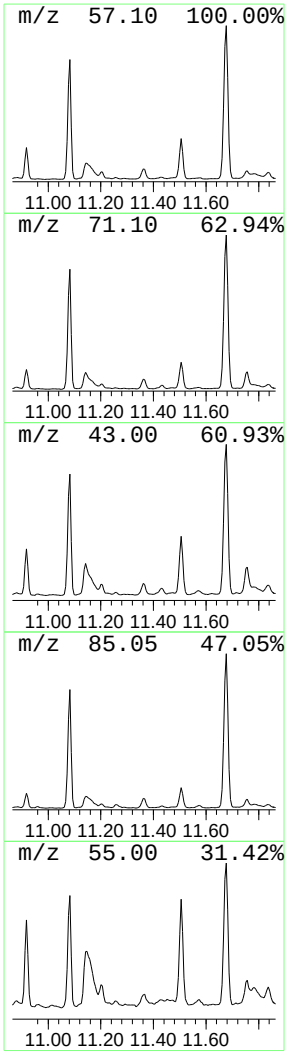
Peak Number 6 Alkane Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.366	4.36 ppm	400881	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	96
2	Eicosane	282	C20H42	000112-95-8	91
3	Tetratriacontane	479	C34H70	014167-59-0	87
4	Tetratriacontane	479	C34H70	014167-59-0	87
5	Octacosane	394	C28H58	000630-02-4	87





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Sample : jd91204-13
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ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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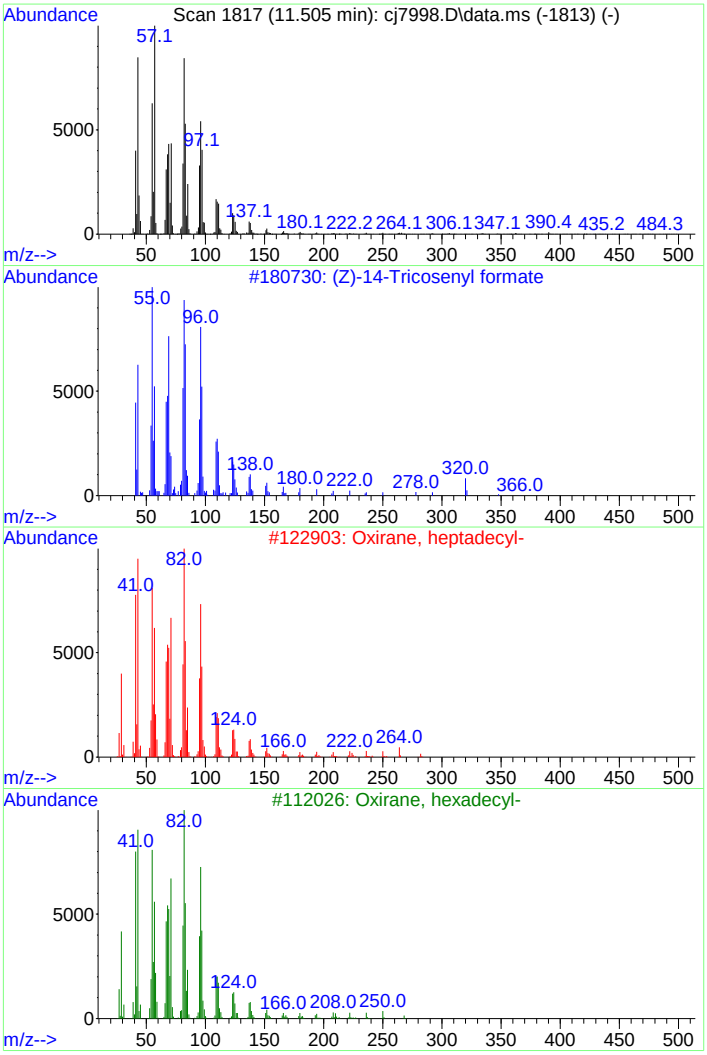
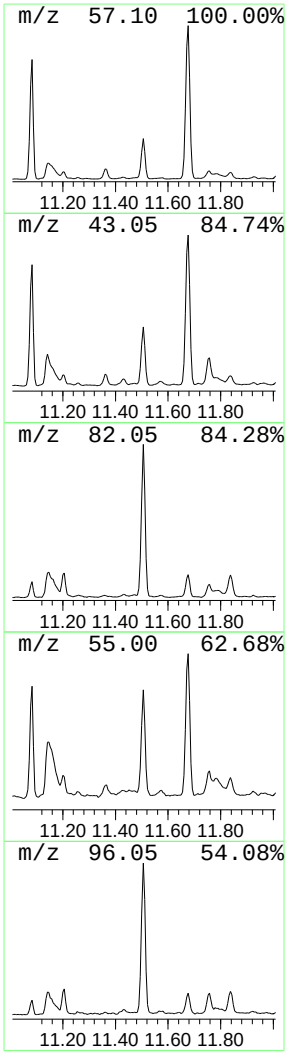
Peak Number 7 Unknown alcohol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.506	19.55 ppm	1798890	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	93
2	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	91
3	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
4	17-Octadecenal	266	C18H34O	056554-86-0	90
5	Octadecanal	268	C18H36O	000638-66-4	87





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Acq On : 01 Jul 2024 04:12 pm
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Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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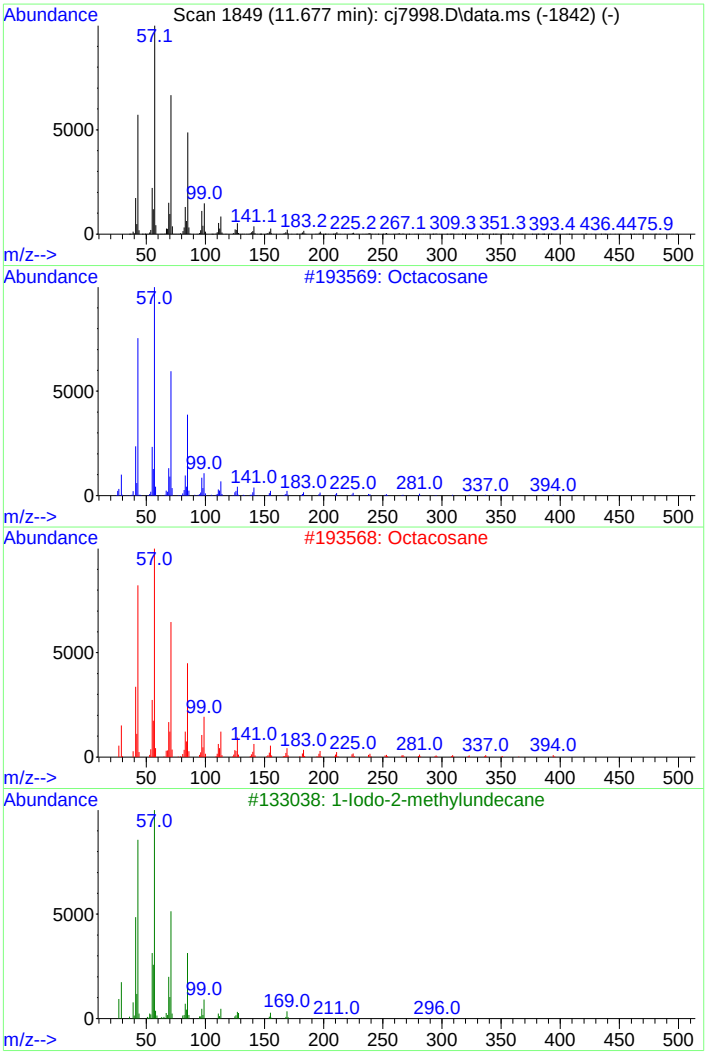
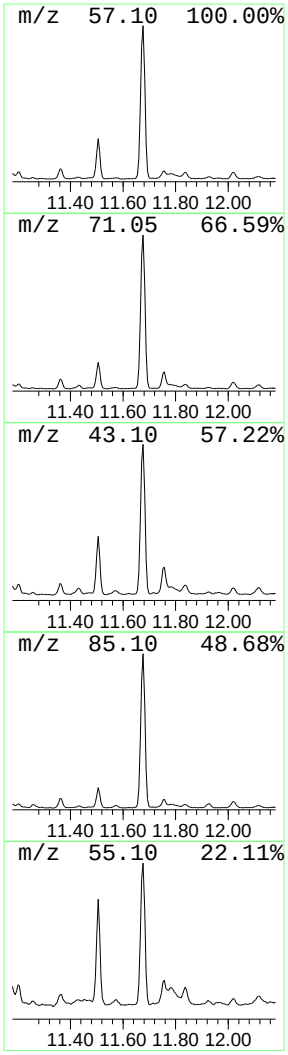
Peak Number 8 Alkane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.677	38.95 ppm	3583060	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	98
2	Octacosane	394	C28H58	000630-02-4	97
3	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	91
4	Heneicosane	296	C21H44	000629-94-7	91
5	Tetratriacontane	479	C34H70	014167-59-0	91





Library Search Compound Report

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Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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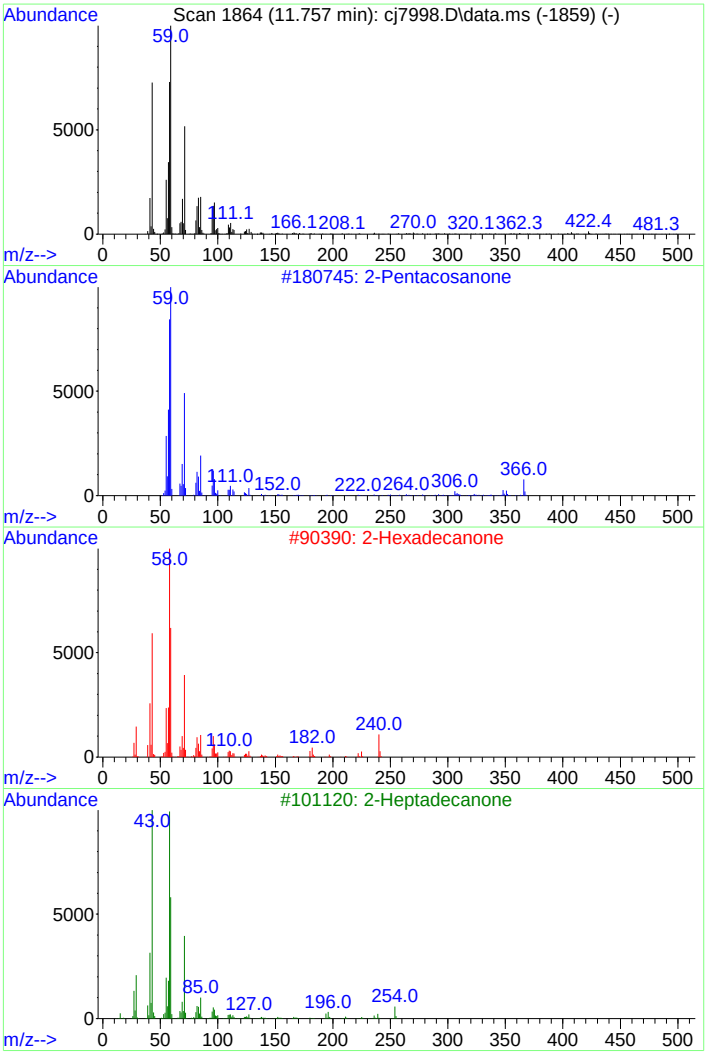
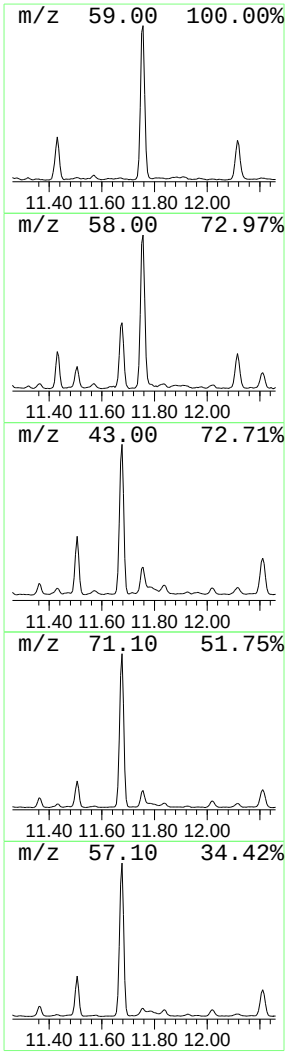
Peak Number 9 Unknown Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.757	7.24 ppm	665809	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentacosanone	366	C25H50O	075207-54-4	86
2	2-Hexadecanone	240	C16H32O	018787-63-8	59
3	2-Heptadecanone	254	C17H34O	002922-51-2	53
4	Octanal, 7-hydroxy-3,7-dimethyl-	172	C10H20O2	000107-75-5	50
5	Oxirane, 3-ethyl-2,2-dimethyl-	100	C6H12O	001192-22-9	50





Library Search Compound Report

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Acq On : 01 Jul 2024 04:12 pm
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Sample : jd91204-13
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ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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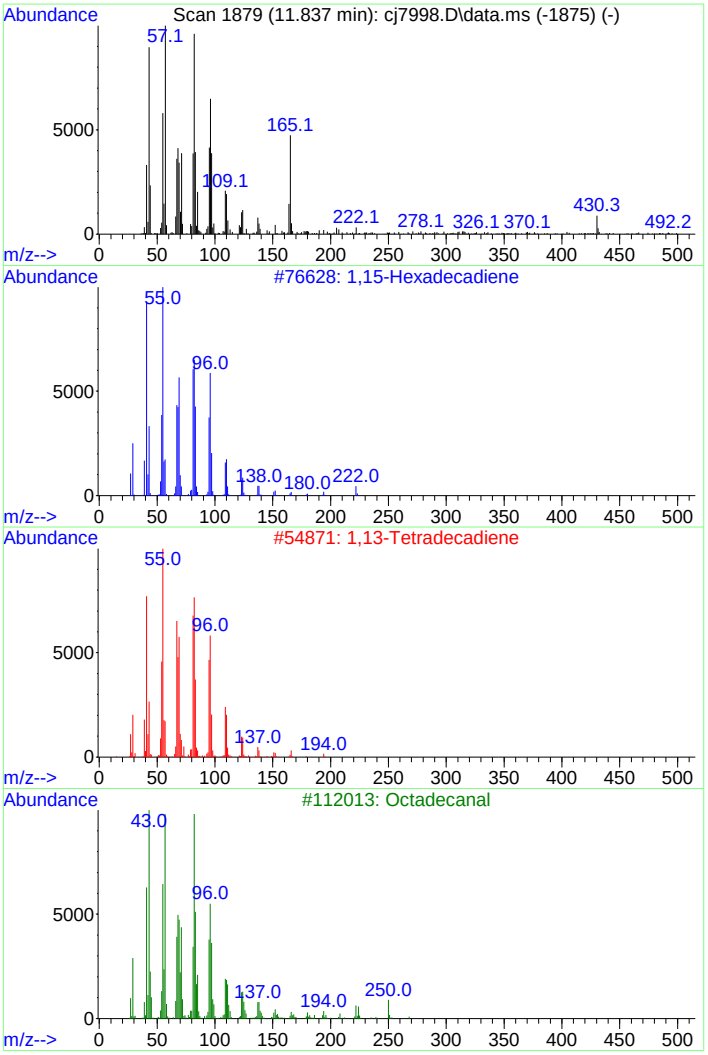
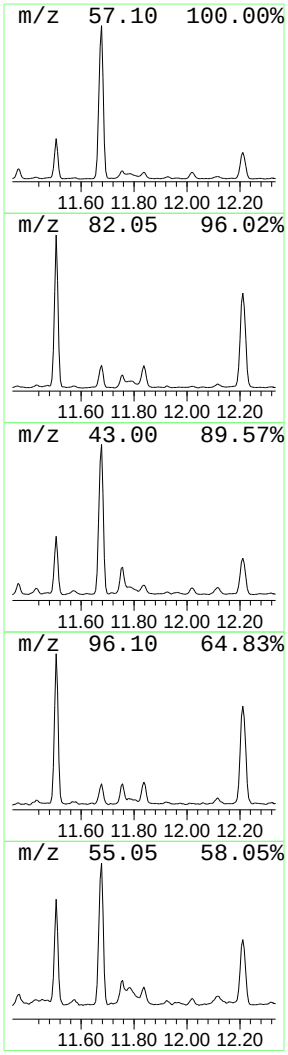
Peak Number 10 Unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.837	4.68 ppm	430547	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,15-Hexadecadiene	222	C16H30	021964-51-2	90
2	1,13-Tetradecadiene	194	C14H26	021964-49-8	86
3	Octadecanal	268	C18H36O	000638-66-4	83
4	16-Octadecenal	266	C18H34O	056554-87-1	80
5	17-Octadecenal	266	C18H34O	056554-86-0	80





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Acq On : 01 Jul 2024 04:12 pm
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Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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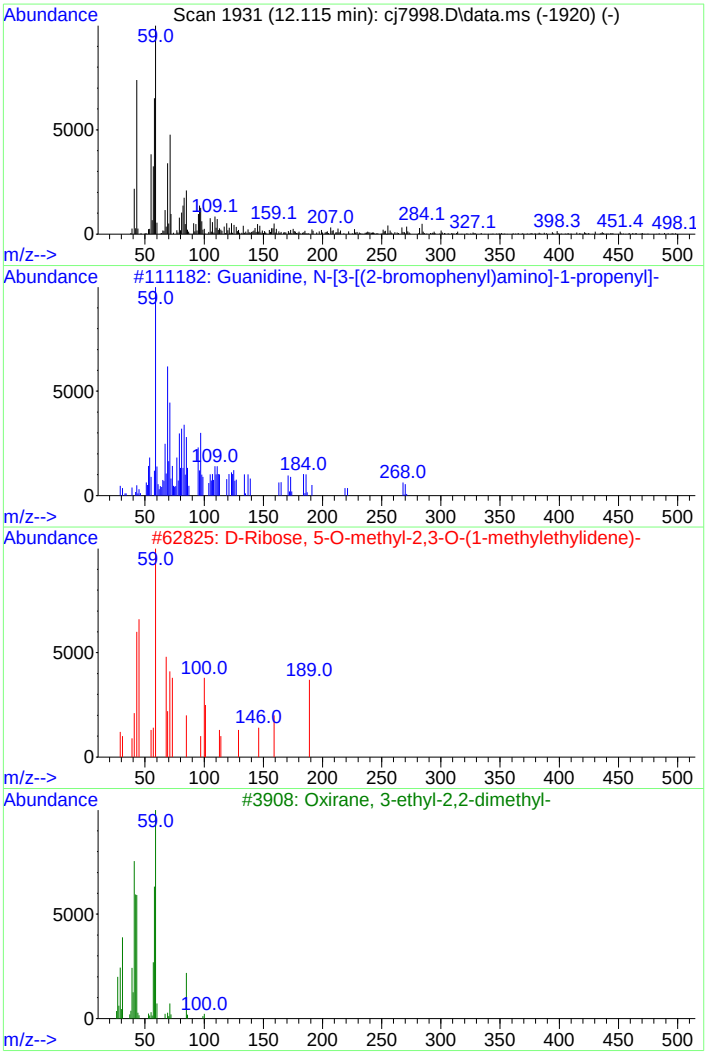
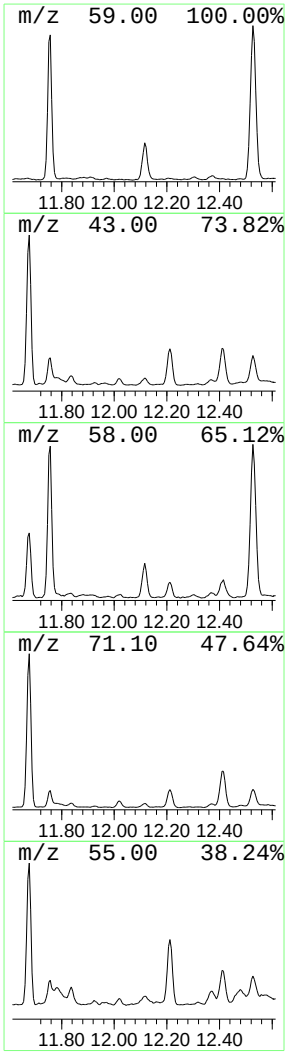
Peak Number 11 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.115	4.36 ppm	401324	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Guanidine, N-[3-[(2-bromophenyl)...	268	C10H13BrN4	1000349-85-6	53
2	D-Ribose, 5-O-methyl-2,3-O-(1-me...	204	C9H16O5	064018-53-7	52
3	Oxirane, 3-ethyl-2,2-dimethyl-	100	C6H12O	001192-22-9	50
4	trans-2,3-Epoxynonane	142	C9H18O	056820-01-0	46
5	2-Nonadecanone	282	C19H38O	000629-66-3	46





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Sample : jd91204-13
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ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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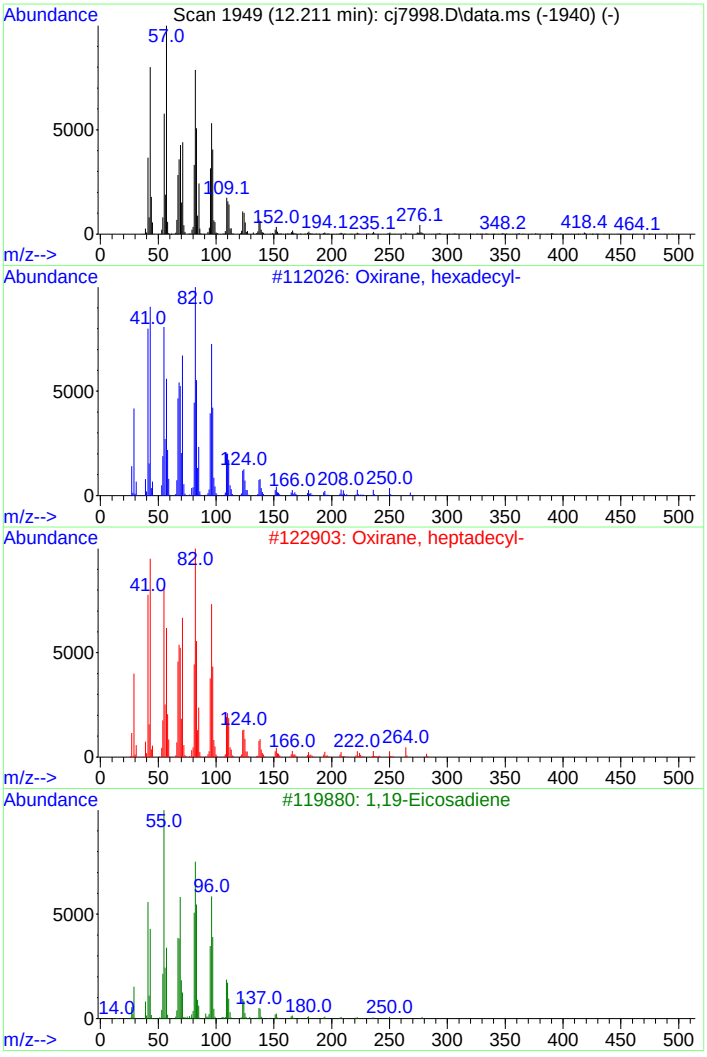
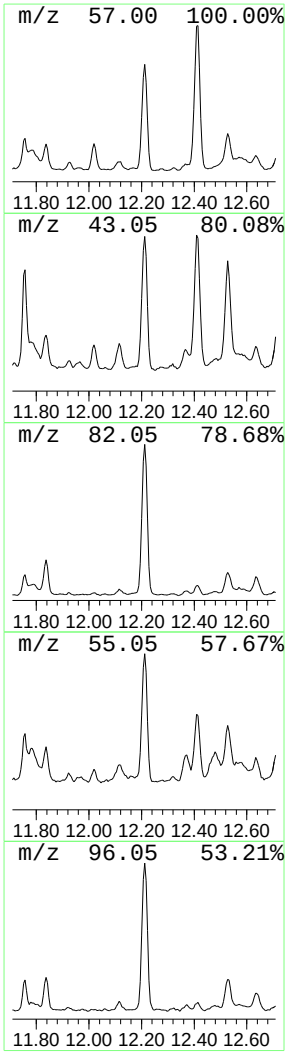
Peak Number 12 Unknown alcohol Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.211	18.03 ppm	1658880	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
2	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	91
3	1,19-Eicosadiene	278	C20H38	014811-95-1	90
4	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	90
5	17-Octadecenal	266	C18H34O	056554-86-0	87





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Sample : jd91204-13
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ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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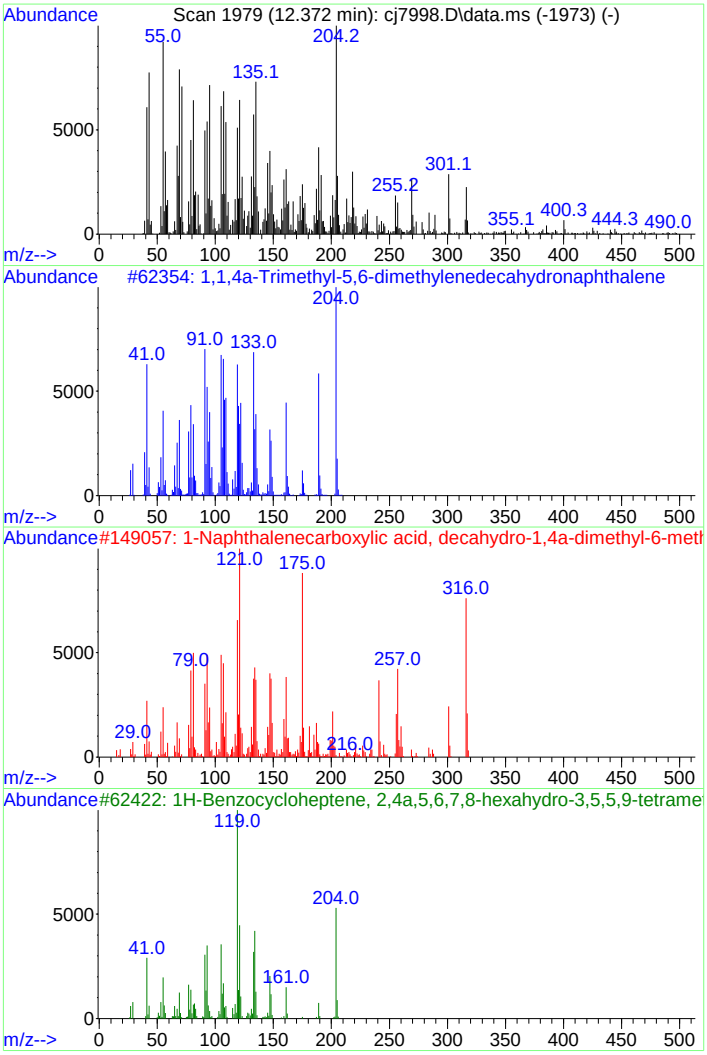
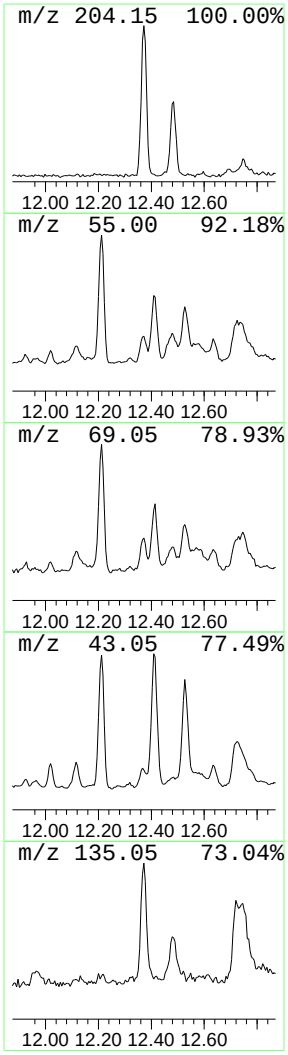
Peak Number 13 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.372	7.87 ppm	724112	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	74
2	1-Naphthalenecarboxylic acid, de...	316	C21H32O2	015798-13-7	64
3	1H-Benzocycloheptene, 2,4a,5,6,7...	204	C15H24	001461-03-6	64
4	Humulane-1,6-dien-3-ol	222	C15H26O	1000140-23-1	55
5	1H-3a,7-Methanoazulene, 2,3,6,7,...	204	C15H24	000560-32-7	55





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ALS Vial : 14 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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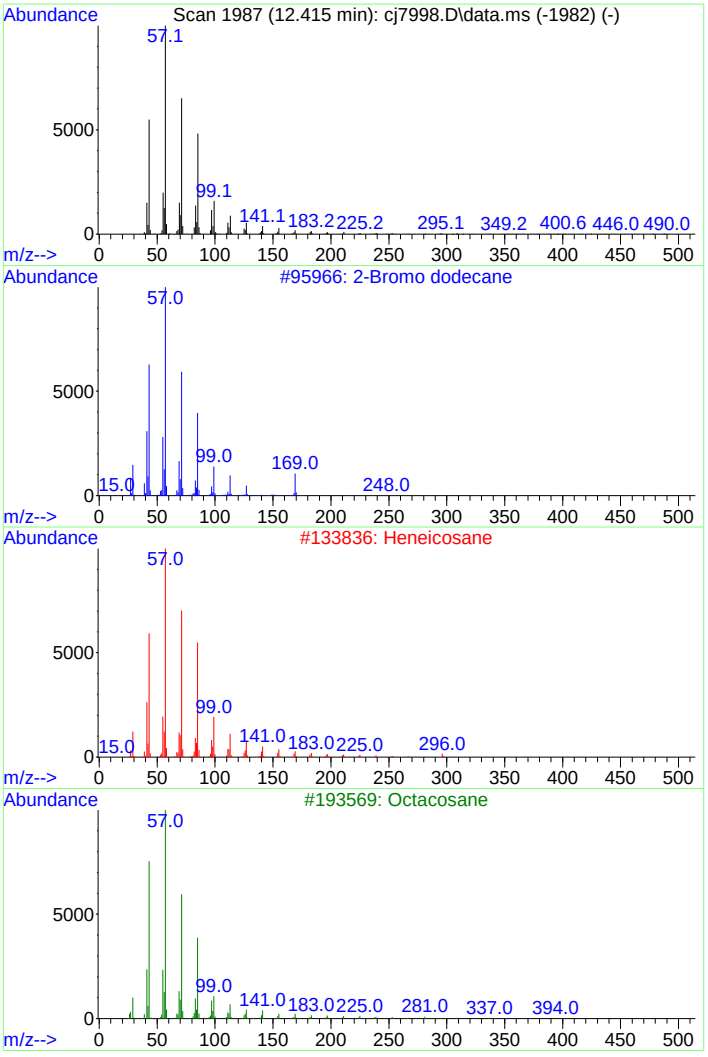
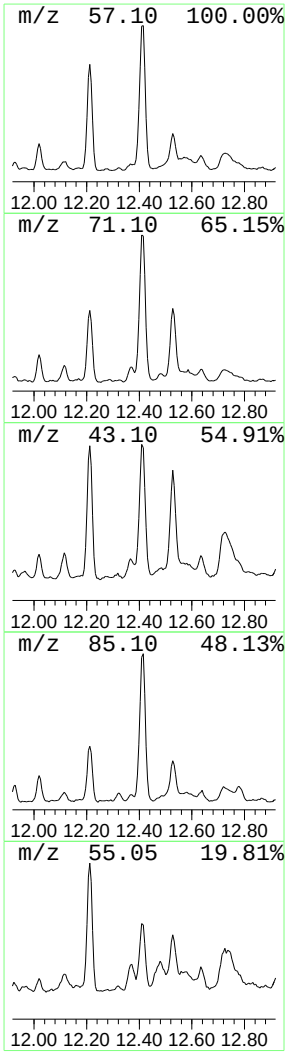
Peak Number 14 Alkane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.415	11.80 ppm	1085640	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Bromo dodecane	248	C12H25Br	013187-99-0	93
2	Heneicosane	296	C21H44	000629-94-7	91
3	Octacosane	394	C28H58	000630-02-4	91
4	Tetratetracontane	619	C44H90	007098-22-8	91
5	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	90





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Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

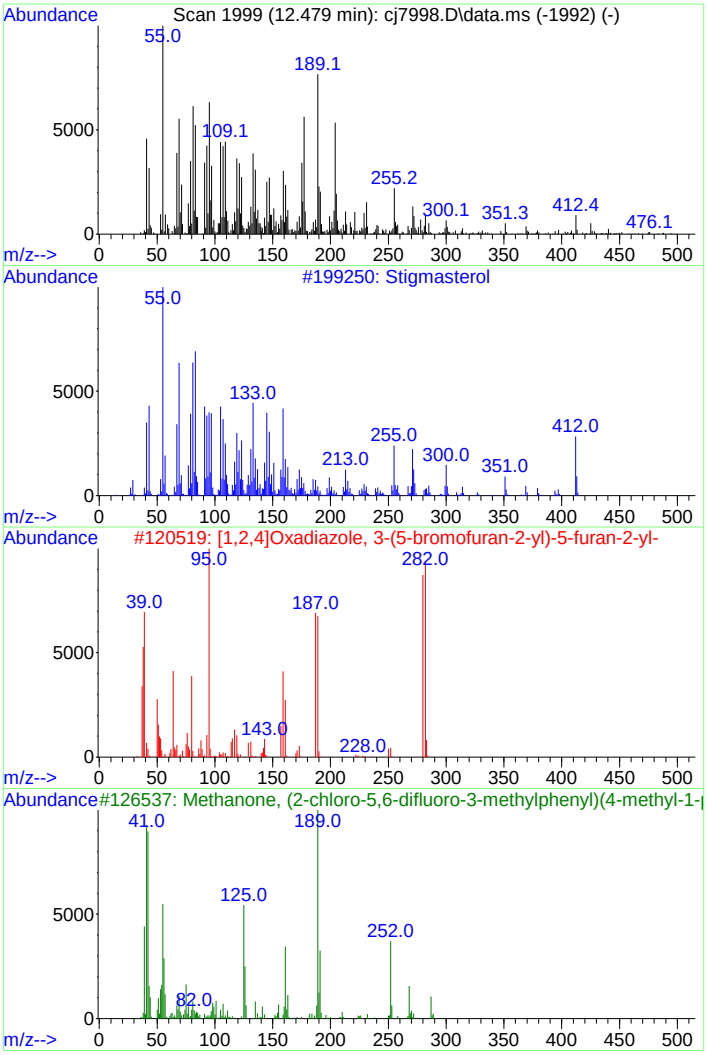
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

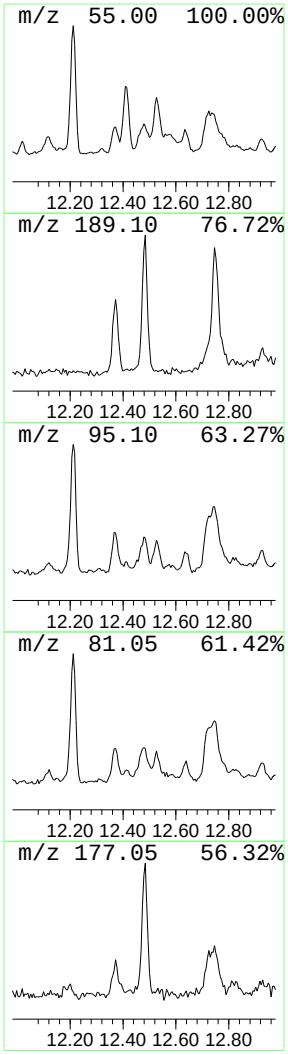
****

Peak Number 15 Unknown Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.479	6.36 ppm	585213	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmasterol	412	C29H48O	000083-48-7	90
2	[1,2,4]Oxadiazole, 3-(5-bromofur...	280	C10H5BrN2O3	1000303-56-3	78
3	Methanone, (2-chloro-5,6-difluor...	287	C14H16ClF2NO	1000277-45-2	56
4	Cedrene-V6	204	C15H24	1000162-76-8	53
5	Cyclohexanamine, N,N'-1,2-ethane...	220	C14H24N2	003673-06-1	46





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

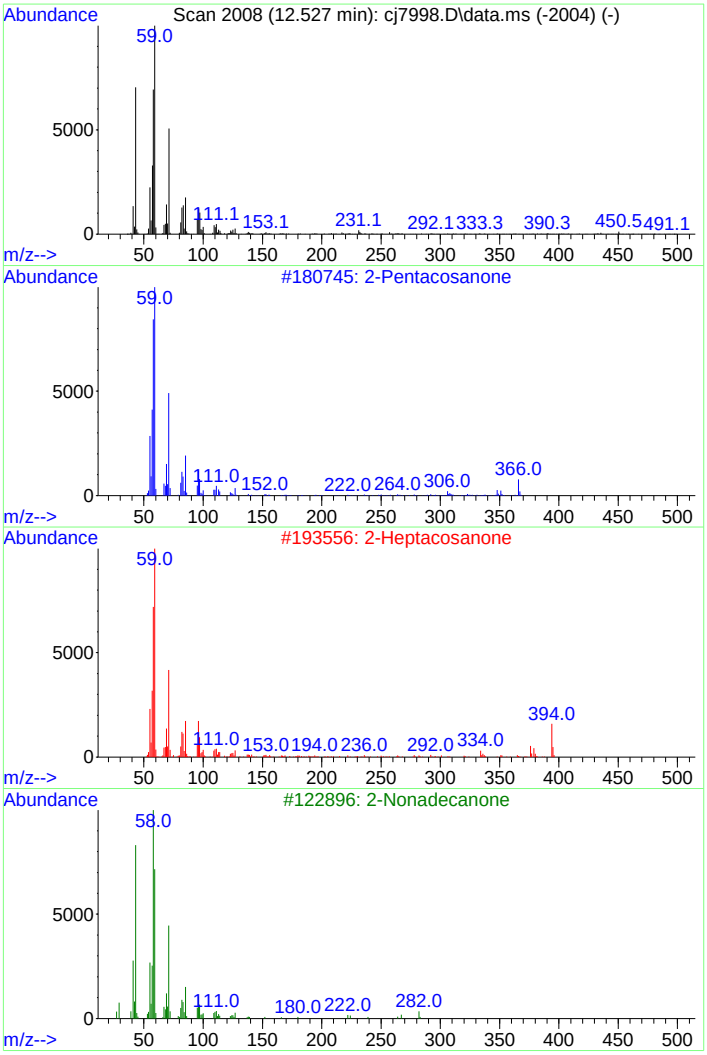
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

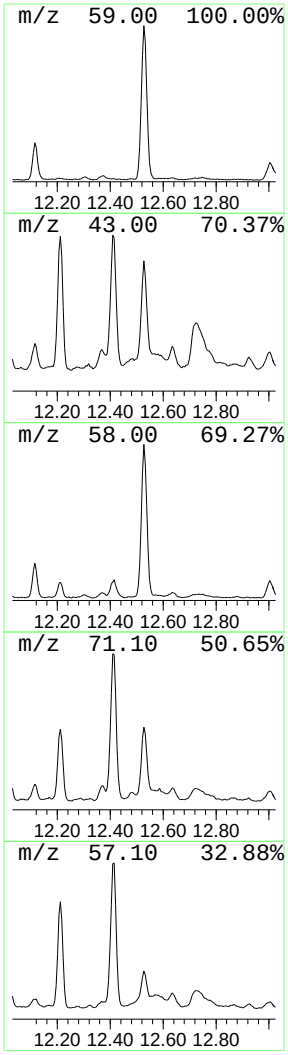
****

Peak Number 16 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.527	7.73 ppm	711084	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentacosanone	366	C25H50O	075207-54-4	91
2	2-Heptacosanone	394	C27H54O	007796-19-2	78
3	2-Nonadecanone	282	C19H38O	000629-66-3	64
4	2-Heptadecanone	254	C17H34O	002922-51-2	59
5	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	49





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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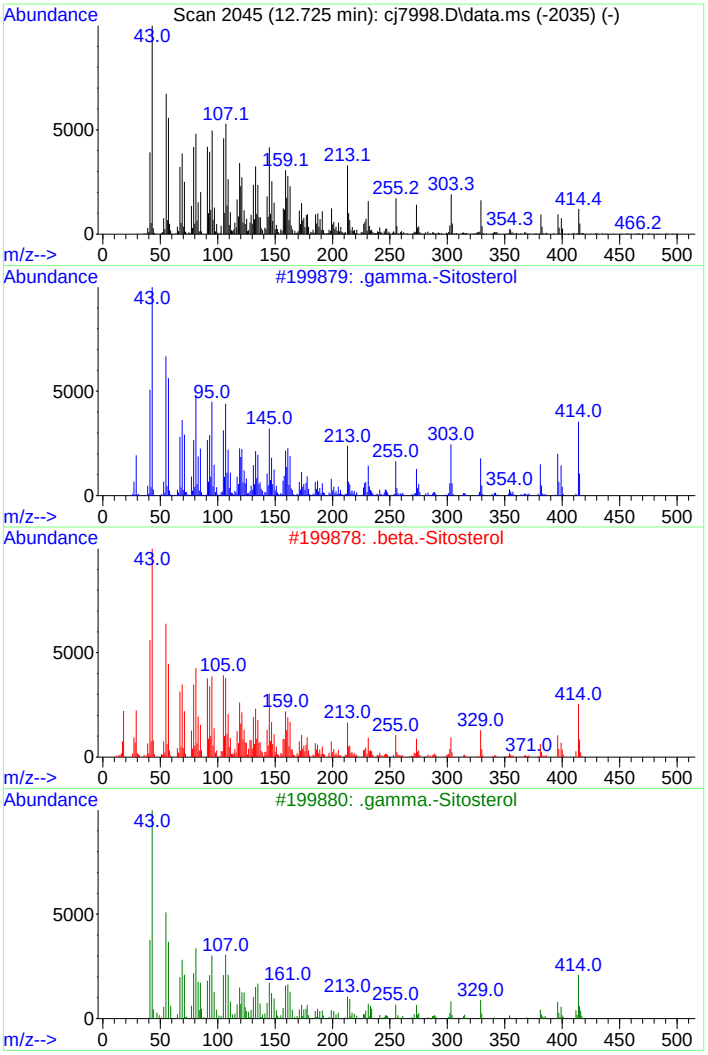
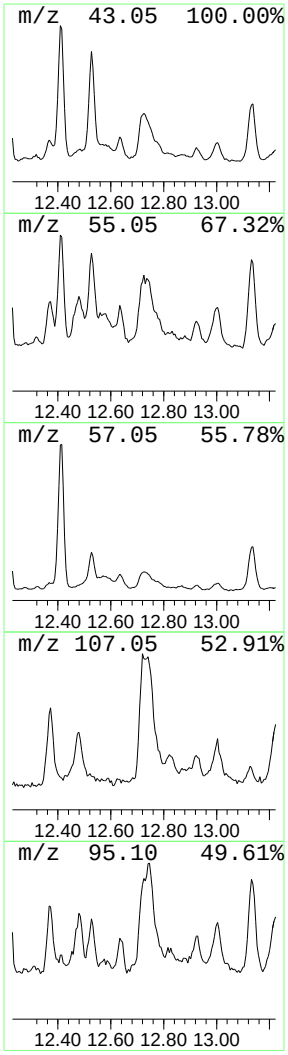
Peak Number 17 Sitosterol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.725	26.45 ppm	2433460	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
3	.gamma.-Sitosterol	414	C29H50O	000083-47-6	92
4	.beta.-Sitosterol	414	C29H50O	000083-46-5	91
5	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	64





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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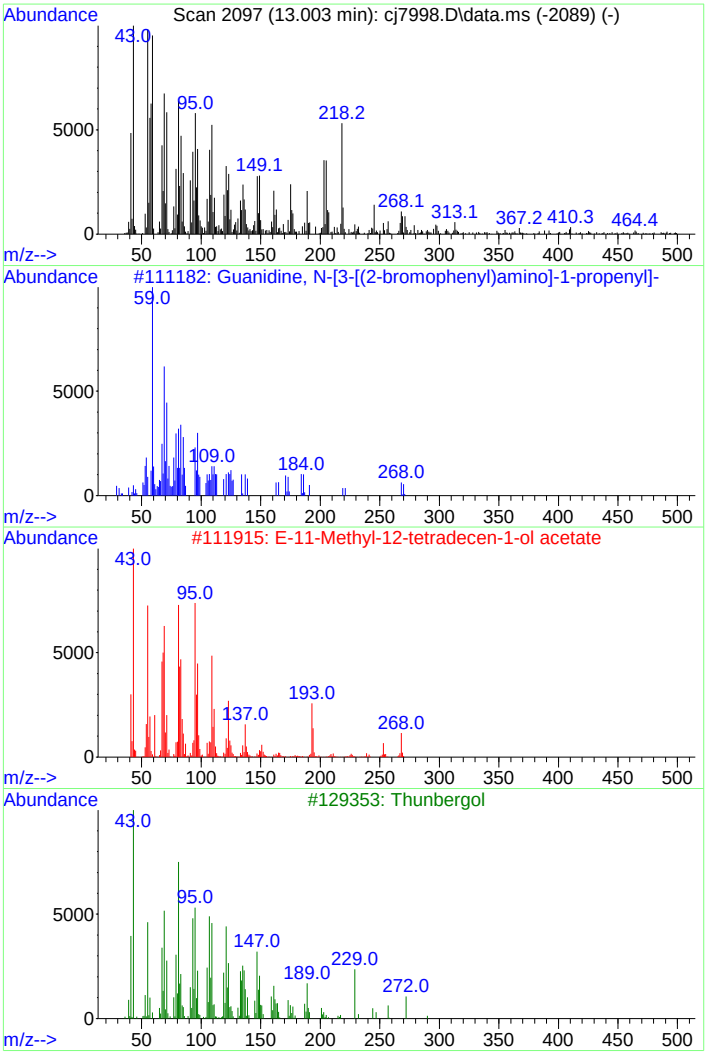
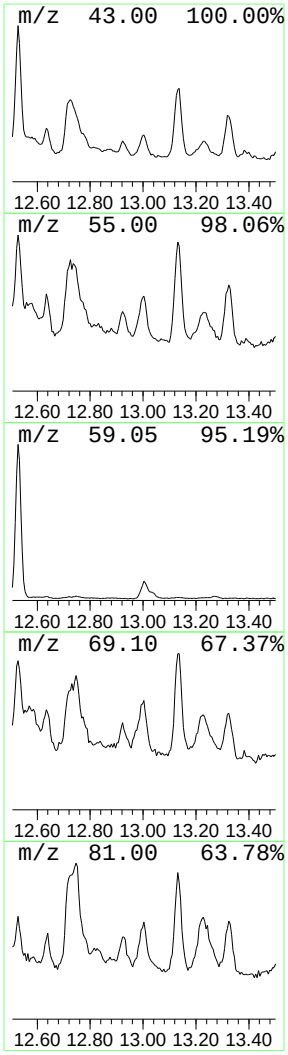
Peak Number 18 Unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.003	8.20 ppm	754628	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Guanidine, N-[3-[(2-bromophenyl)...	268	C10H13BrN4	1000349-85-6	60
2	E-11-Methyl-12-tetradecen-1-ol a...	268	C17H32O2	1000130-80-7	56
3	Thunbergol	290	C20H34O	025269-17-4	51
4	11,13-Dimethyl-12-tetradecen-1-o...	282	C18H34O2	1000130-81-0	47
5	2(1H)Naphthalenone, 3,5,6,7,8,8a...	218	C15H22O	1000188-66-5	46





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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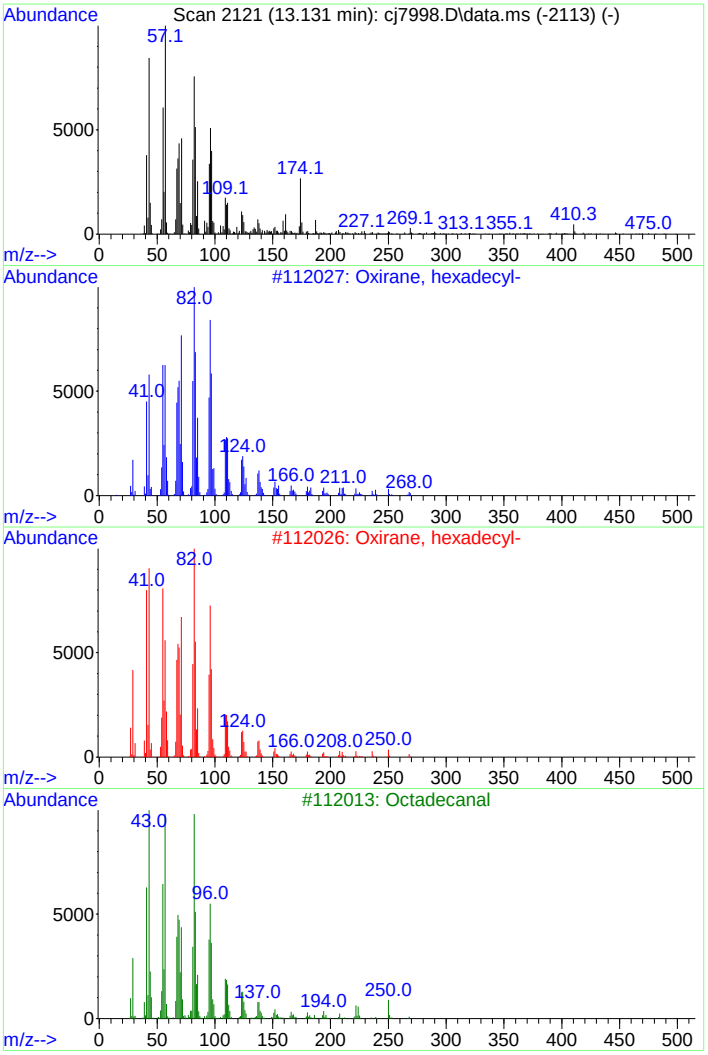
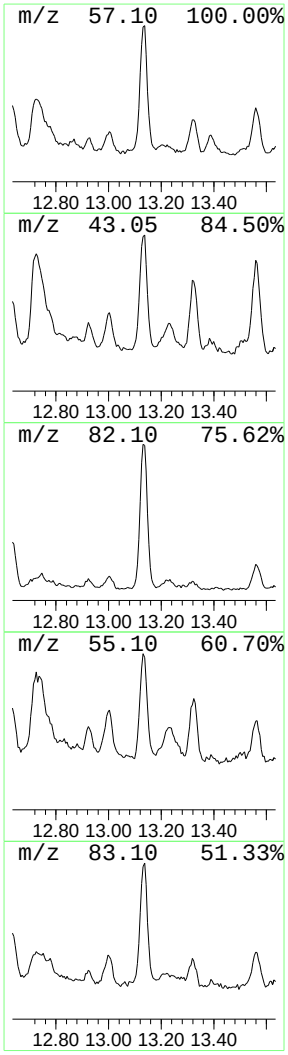
Peak Number 19 Unknown alcohol Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.132	11.34 ppm	1043200	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	90
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	87
3	Octadecanal	268	C18H36O	000638-66-4	74
4	Octadecanal	268	C18H36O	000638-66-4	68
5	1,19-Eicosadiene	278	C20H38	014811-95-1	58





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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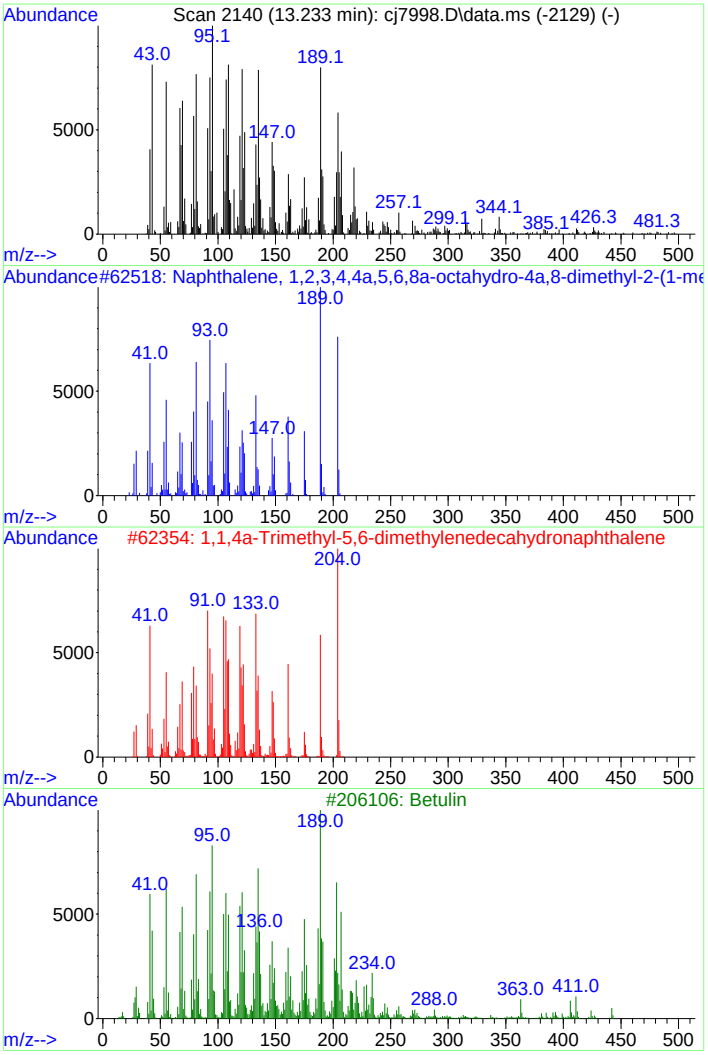
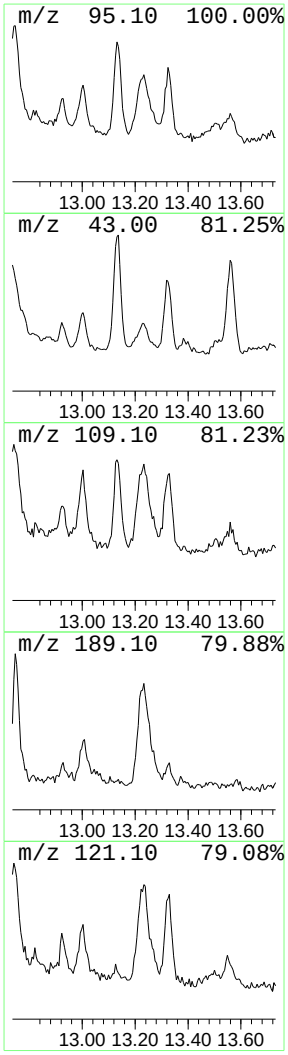
Peak Number 20 Unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.233	8.91 ppm	820041	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4,4a,5,6,8a-o...	204	C15H24	000473-13-2	90
2	1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	83
3	Betulin	442	C30H50O2	000473-98-3	76
4	Azulene, 1,2,3,5,6,7,8,8a-octahy...	204	C15H24	003691-11-0	70
5	Azulene, 1,2,3,5,6,7,8,8a-octahy...	204	C15H24	003691-11-0	70





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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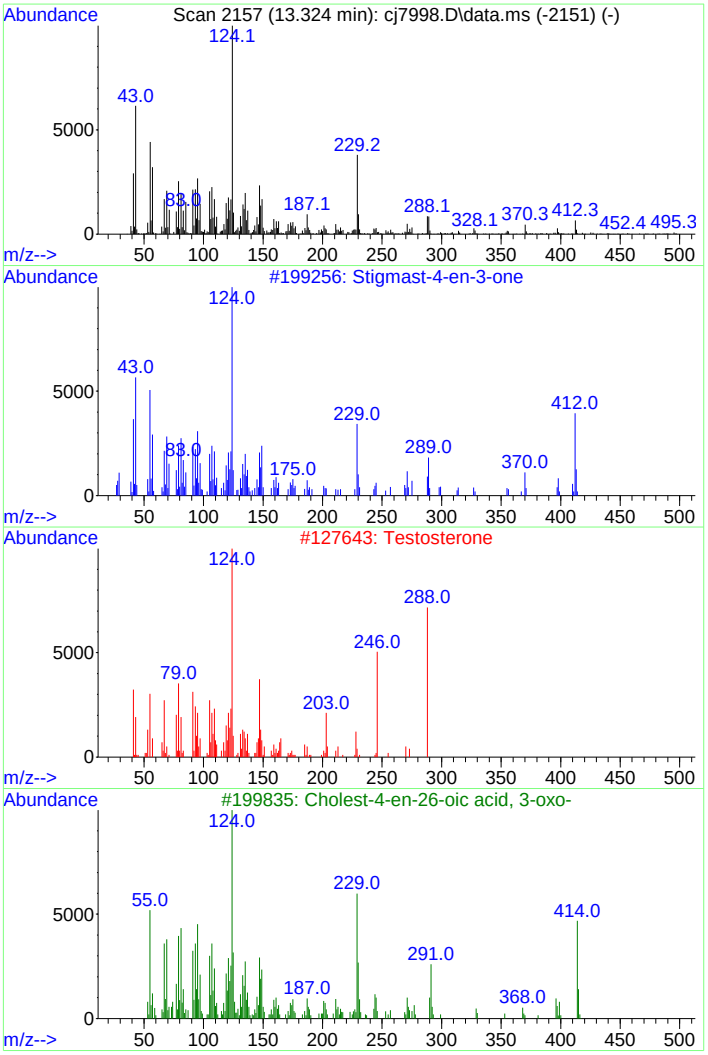
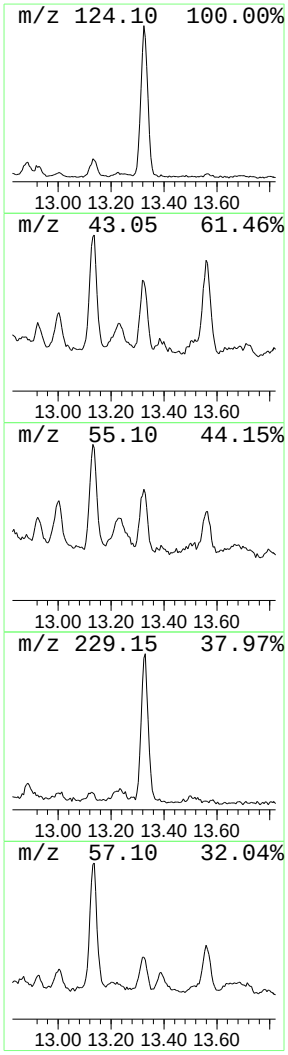
Peak Number 21 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.324	9.63 ppm	885543	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	98
2	Testosterone	288	C19H28O2	000058-22-0	64
3	Cholest-4-en-26-oic acid, 3-oxo-	414	C27H42O3	023017-97-2	53
4	Cyclobuta[1,2:3,4]dicyclooctene-...	248	C16H24O2	069926-83-6	52
5	Pregn-4-en-3-one, 20,21-[(phenyl...	418	C27H35BO3	030882-69-0	47





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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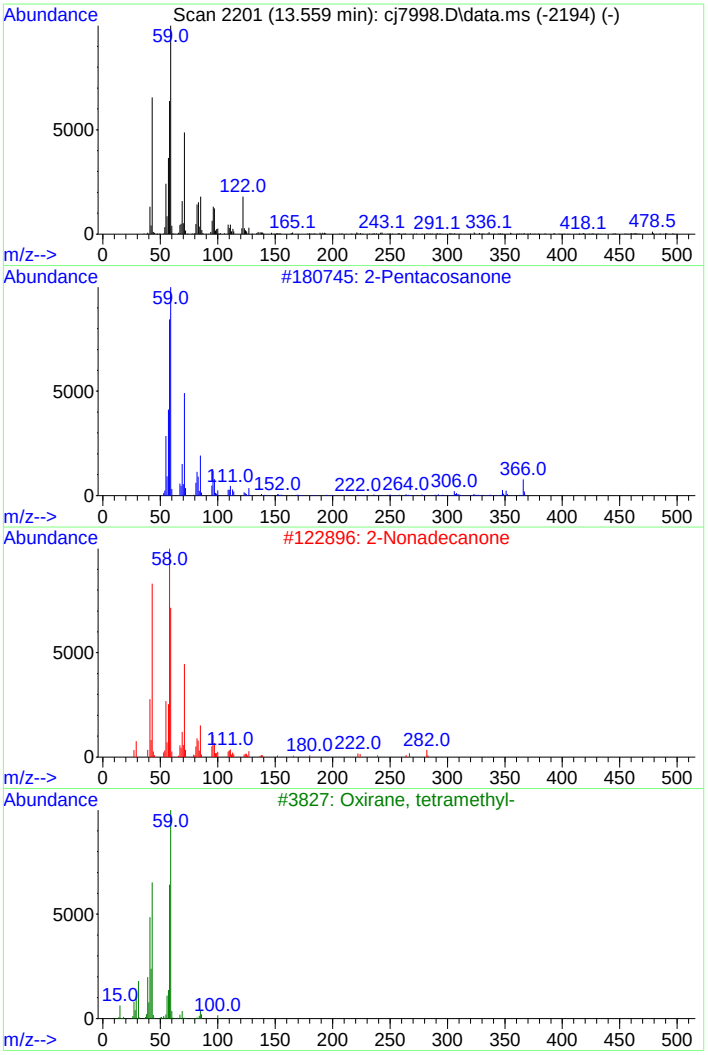
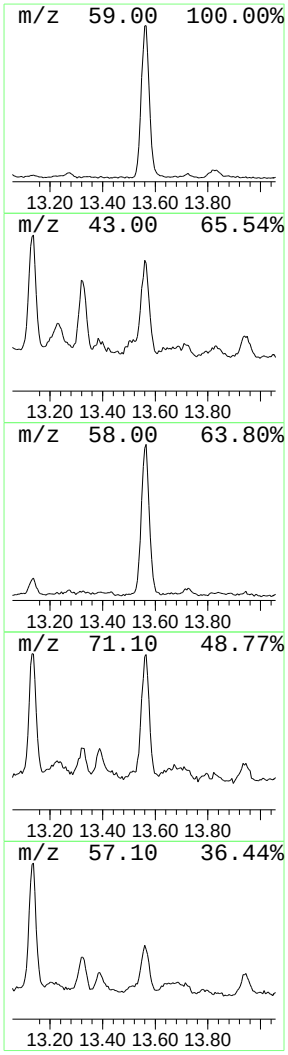
Peak Number 22 Unknown Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.559	7.23 ppm	664904	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentacosanone	366	C25H50O	075207-54-4	86
2	2-Nonadecanone	282	C19H38O	000629-66-3	53
3	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	49
4	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	49
5	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	47





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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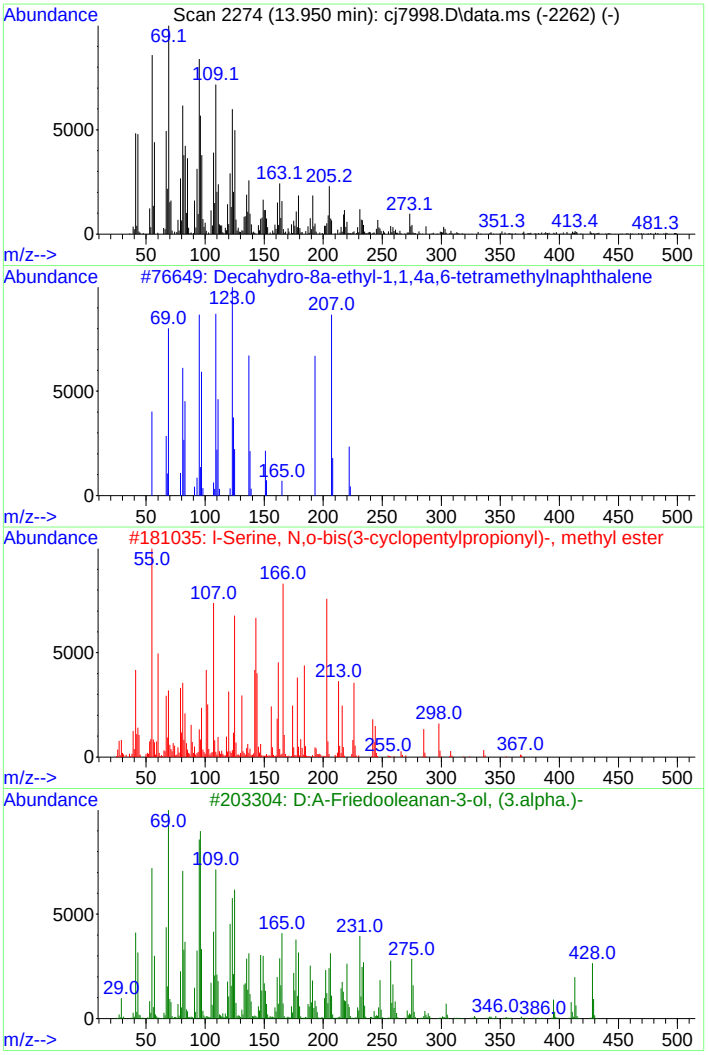
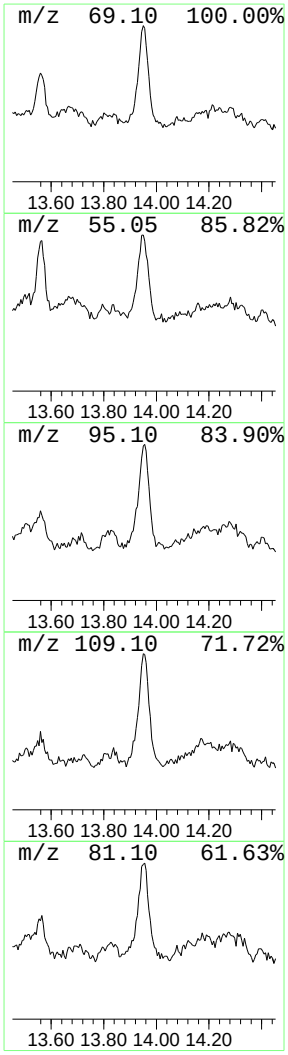
Peak Number 23 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.950	9.48 ppm	871768	Perylene-d12	11.275

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decahydro-8a-ethyl-1,1,4a,6-tetr...	222	C16H30	1000100-23-6	87
2	l-Serine, N,o-bis(3-cyclopentylp...	367	C20H33NO5	1000299-65-7	59
3	D:A-Friedooleanan-3-ol, (3.alpha.)-	428	C30H52O	005085-72-3	42
4	Cyclohexanone, 2,3,3-trimethyl-2...	206	C14H22O	069296-90-8	41
5	1-Formyl-2,2,6-trimethyl-3-cis-(...	220	C15H24O	1000144-10-1	38





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7998.D
Acq On : 01 Jul 2024 04:12 pm
Operator : karimam
Sample : jd91204-13
Misc : op55759,ecj348,30.3,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Alkane	10.500	5.2	ppm	475591	10	9.960	3656950	40.0
Unknown alcohol	10.553	24.4	ppm	2230610	10	9.960	3656950	40.0
Unknown	10.848	4.4	ppm	401290	11	11.275	3679690	40.0
Alkane	11.083	24.5	ppm	2257010	11	11.275	3679690	40.0
Unknown	11.142	21.3	ppm	1958660	11	11.275	3679690	40.0
Alkane	11.366	4.4	ppm	400881	11	11.275	3679690	40.0
Unknown alcohol	11.506	19.6	ppm	1798890	11	11.275	3679690	40.0
Alkane	11.677	39.0	ppm	3583060	11	11.275	3679690	40.0
Unknown	11.757	7.2	ppm	665809	11	11.275	3679690	40.0
Unknown	11.837	4.7	ppm	430547	11	11.275	3679690	40.0
Unknown	12.115	4.4	ppm	401324	11	11.275	3679690	40.0
Unknown alcohol	12.211	18.0	ppm	1658880	11	11.275	3679690	40.0
Unknown	12.372	7.9	ppm	724112	11	11.275	3679690	40.0
Alkane	12.415	11.8	ppm	1085640	11	11.275	3679690	40.0
Unknown	12.479	6.4	ppm	585213	11	11.275	3679690	40.0
Unknown	12.527	7.7	ppm	711084	11	11.275	3679690	40.0
Sitosterol	12.725	26.4	ppm	2433460	11	11.275	3679690	40.0
Unknown	13.003	8.2	ppm	754628	11	11.275	3679690	40.0
Unknown alcohol	13.132	11.3	ppm	1043200	11	11.275	3679690	40.0
Unknown	13.233	8.9	ppm	820041	11	11.275	3679690	40.0
Unknown	13.324	9.6	ppm	885543	11	11.275	3679690	40.0
Unknown	13.559	7.2	ppm	664904	11	11.275	3679690	40.0
Unknown	13.950	9.5	ppm	871768	11	11.275	3679690	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Ying Li
07/03/24 08:32

Quantitation Report (QT/LSC Reviewed)

Data Path : R:\MSSEMI\Completed\7. July 2024\070224\danielas\E6P4200\
Data File : 6p516236.d
Acq On : 2 Jul 2024 3:44 pm
Operator : anthonyo
Sample : jd91204-14 Inst : GCMS6P
Misc : op55759,e6p4200,31.3,,,1,5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 03 03:35:59 2024
Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\M6P4168.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Sep 14 16:02:13 2023
QLast Update : Tue Jul 02 20:47:15 2024
Response via : Initial Calibration

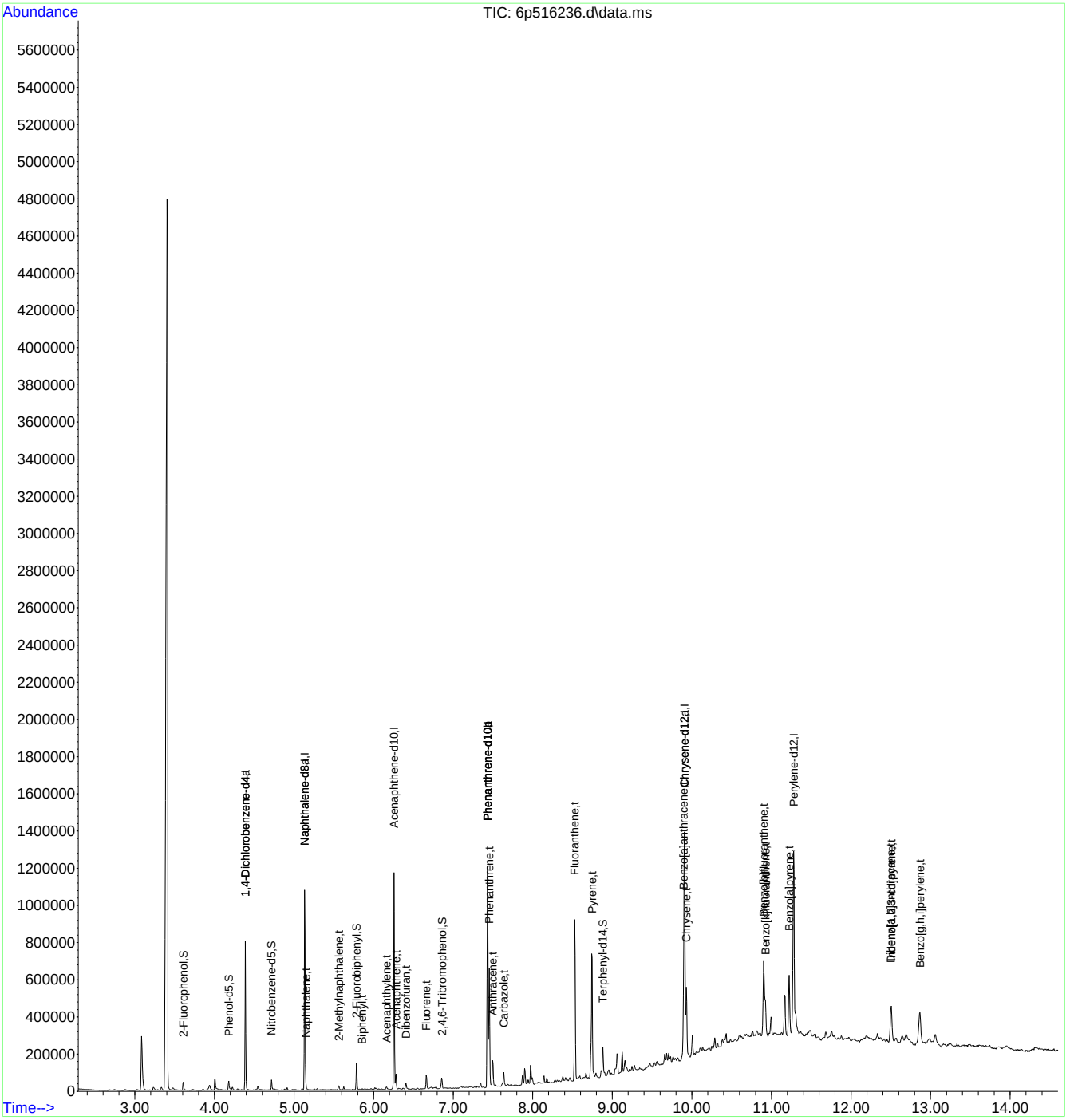
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.389	152	85334	40.00	ppm	0.00
24) Naphthalene-d8	5.132	136	363740	40.00	ppm	0.00
46) Acenaphthene-d10	6.256	164	206263	40.00	ppm	0.00
69) Phenanthrene-d10	7.432	188	379194	40.00	ppm	0.00
84) Chrysene-d12	9.909	240	339369	40.00	ppm	0.00
93) Perylene-d12	11.278	264	425212	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.389	152	85334	40.00	ppm	0.00
105) Phenanthrene-d10a	7.432	188	379194	40.00	ppm	0.00
107) Naphthalene-d8a	5.132	136	363740	40.00	ppm	0.00
109) Phenanthrene-d10b	7.432	188	379194	40.00	ppm	0.00
112) Chrysene-d12a	9.909	240	339369	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.608	112	11877	4.55	ppm	0.01
Spiked Amount 50.000			Recovery =	9.10%		
8) Phenol-d5	4.180	99	15898	5.20	ppm	0.00
Spiked Amount 50.000			Recovery =	10.40%		
25) Nitrobenzene-d5	4.715	82	14961	4.55	ppm	0.00
Spiked Amount 50.000			Recovery =	9.10%		
51) 2-Fluorobiphenyl	5.785	172	33170	5.19	ppm	0.00
Spiked Amount 50.000			Recovery =	10.38%		
74) 2,4,6-Tribromophenol	6.860	330	5973	6.31	ppm	0.01
Spiked Amount 50.000			Recovery =	12.62%		
87) Terphenyl-d14	8.882	244	44854	5.36	ppm	0.00
Spiked Amount 50.000			Recovery =	10.72%		
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
38) Naphthalene	5.148	128	8482	1.0143	ppm	96
44) 2-Methylnaphthalene	5.566	141	4200	0.8376	ppm	99
53) Biphenyl	5.854	154	1654m	0.2351	ppm	
56) Acenaphthylene	6.165	152	5856	0.7347	ppm	94
59) Acenaphthene	6.282	153	16523	2.9261	ppm	95
62) Dibenzofuran	6.405	168	10928	1.3896	ppm	91
66) Fluorene	6.662	166	17966	2.8404	ppm	99
78) Phenanthrene	7.454	178	197119	20.5409	ppm	99
79) Anthracene	7.496	178	52691	5.4244	ppm	98
80) Carbazole	7.636	167	28624	3.0706	ppm	97
82) Fluoranthene	8.529	202	323121	31.0407	ppm	97
86) Pyrene	8.748	202	279667	24.3011	ppm	100
89) Benzo[a]anthracene	9.898	228	155866	14.6833	ppm	98
91) Chrysene	9.930	228	137754	13.8487	ppm	97
95) Benzo[b]fluoranthene	10.904	252	212241m	17.4584	ppm	
96) Benzo[k]fluoranthene	10.925	252	52149m	4.5292	ppm	
97) Benzo[a]pyrene	11.224	252	150885	14.3461	ppm	97
98) Indeno[1,2,3-cd]pyrene	12.508	276	105679	7.7001	ppm	88
100) Dibenz[a,h]anthracene	12.503	278	25156	2.2545	ppm	90
102) Benzo[g,h,i]perylene	12.867	276	108004	10.1365	ppm	97

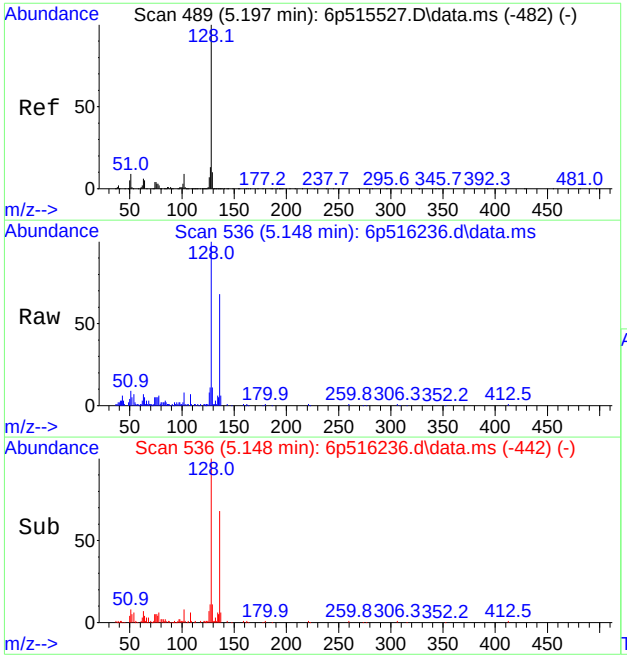
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : R:\MSSEMI\Completed\7. July 2024\070224\danielas\E6P4200\
Data File : 6p516236.d
Acq On : 2 Jul 2024 3:44 pm
Operator : anthonyo
Sample : jd91204-14 Inst : GCMS6P
Misc : op55759,e6p4200,31.3,,,1,5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 03 03:35:59 2024
Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\M6P4168.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Sep 14 16:02:13 2023
QLast Update : Tue Jul 02 20:47:15 2024
Response via : Initial Calibration

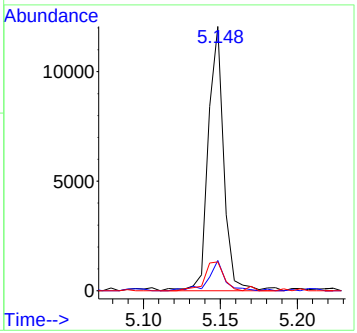


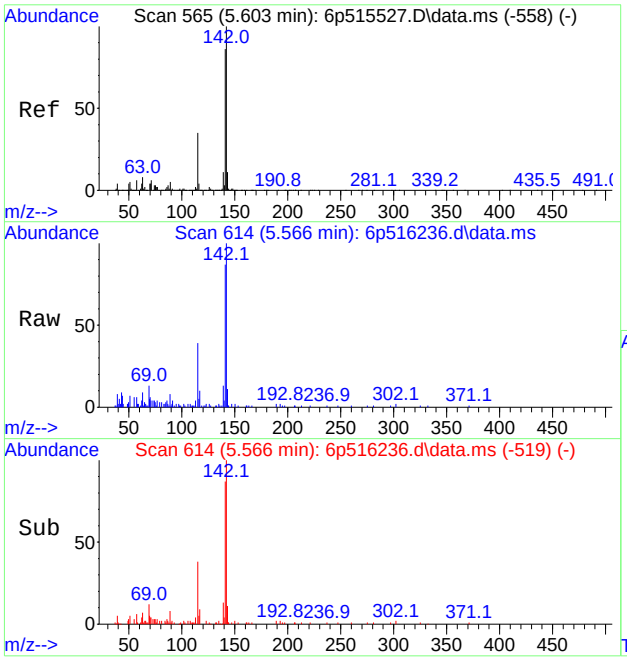


#38
Naphthalene
Concen: 1.0143 ppm
RT: 5.148 min Scan# 536
Delta R.T. 0.005 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:128 Resp: 8482

Ion	Ratio	Lower	Upper
128	100		
129	11.5	0.0	40.4
127	10.6	0.0	42.3

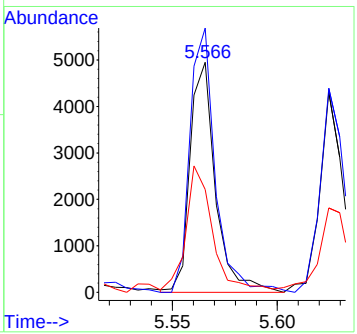


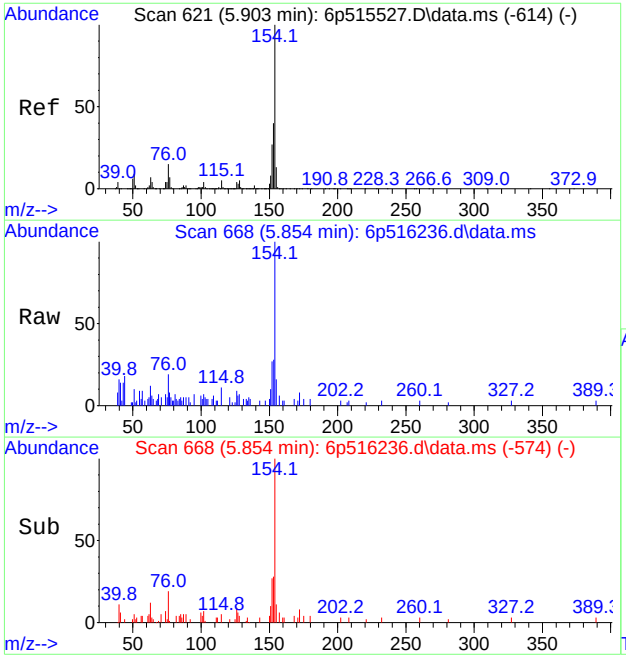


#44
2-Methylnaphthalene
Concen: 0.8376 ppm
RT: 5.566 min Scan# 614
Delta R.T. 0.011 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:141 Resp: 4200

Ion	Ratio	Lower	Upper
141	100		
142	115.0	85.5	145.5
115	43.3	15.3	75.3

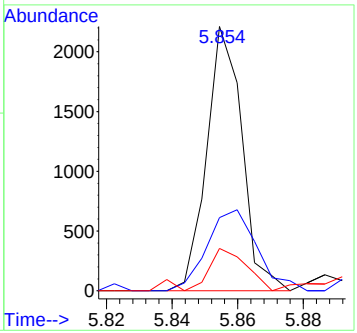


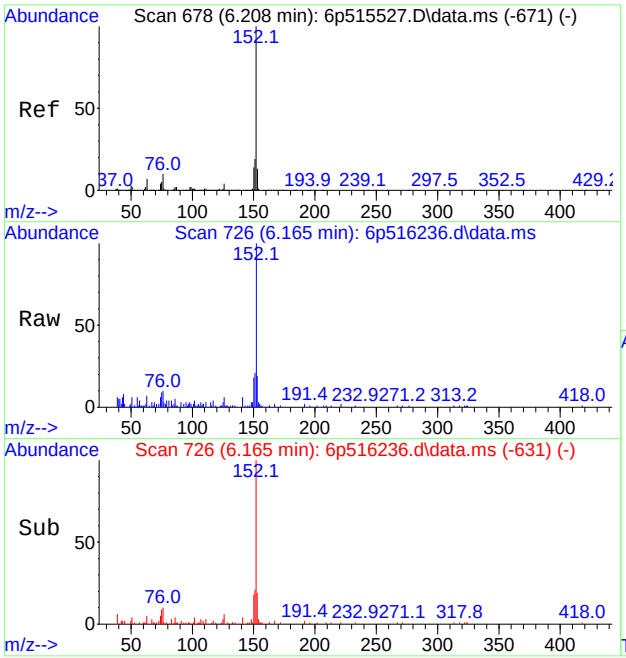


#53
Biphenyl
Concen: 0.2351 ppm m
RT: 5.854 min Scan# 668
Delta R.T. 0.005 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:154 Resp: 1654

Ion	Ratio	Lower	Upper
154	100		
153	27.7	9.6	69.6
155	16.0	0.0	42.4

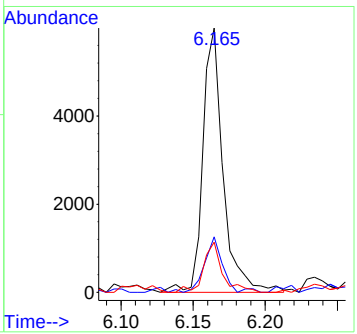


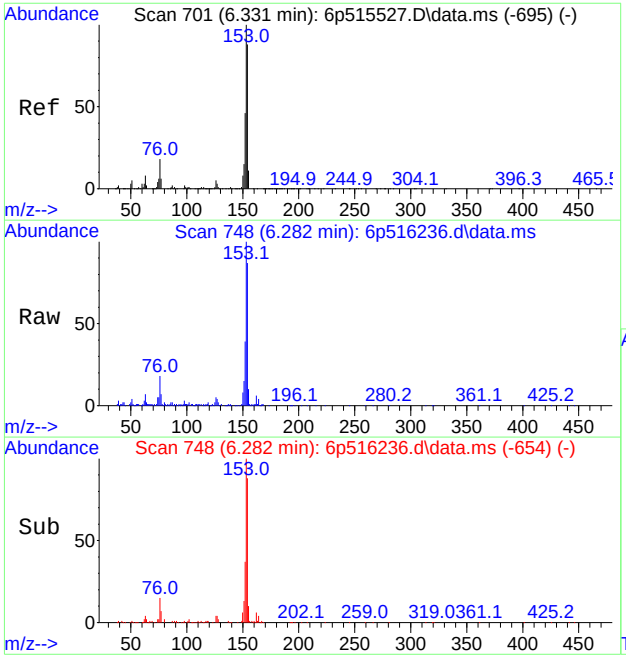


#56
Acenaphthylene
Concen: 0.7347 ppm
RT: 6.165 min Scan# 726
Delta R.T. 0.011 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:152 Resp: 5856

Ion	Ratio	Lower	Upper
152	100		
151	19.0	0.0	49.6
153	18.2	0.0	43.5

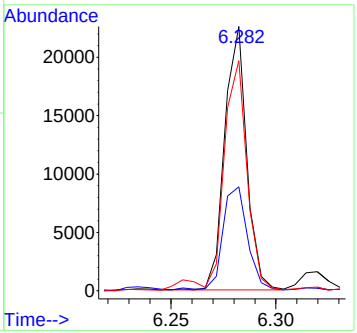


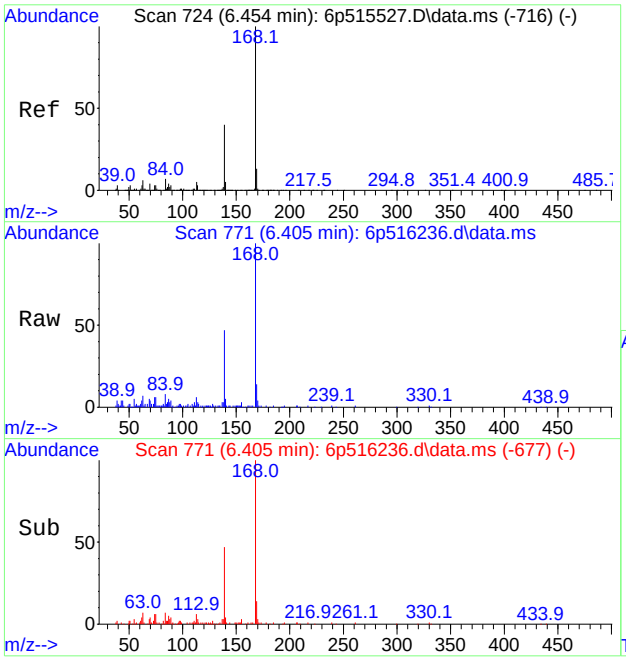


#59
Acenaphthene
Concen: 2.9261 ppm
RT: 6.282 min Scan# 748
Delta R.T. 0.005 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:153 Resp: 16523

Ion	Ratio	Lower	Upper
153	100		
152	39.1	15.5	75.5
154	87.2	58.9	118.9

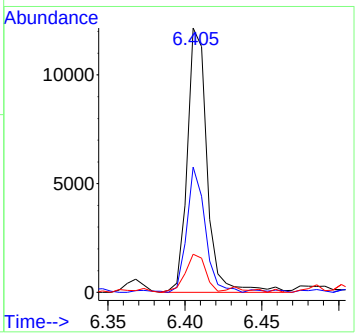


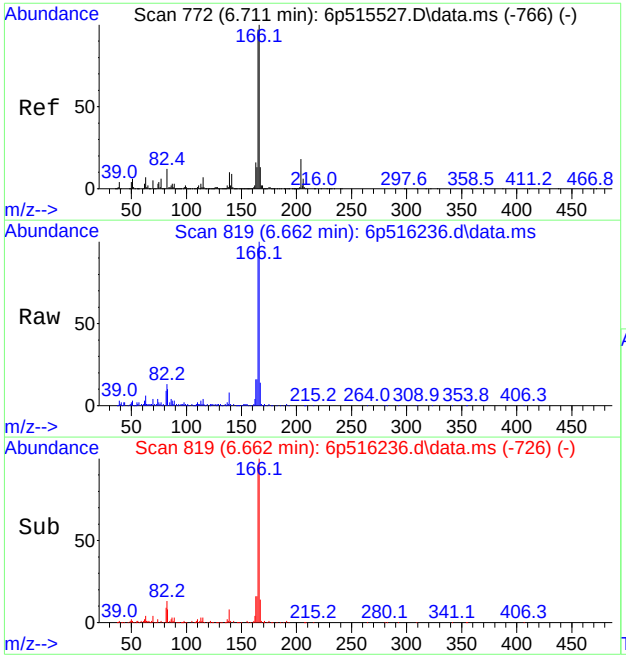


#62
Dibenzofuran
Concen: 1.3896 ppm
RT: 6.405 min Scan# 771
Delta R.T. 0.005 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:168 Resp: 10928

Ion	Ratio	Lower	Upper
168	100		
139	47.0	10.3	70.3
169	14.4	0.0	43.0

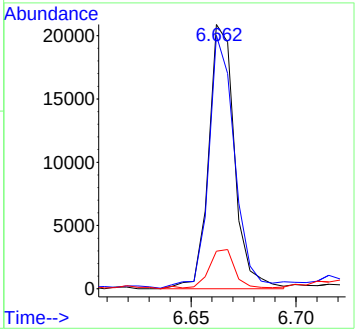


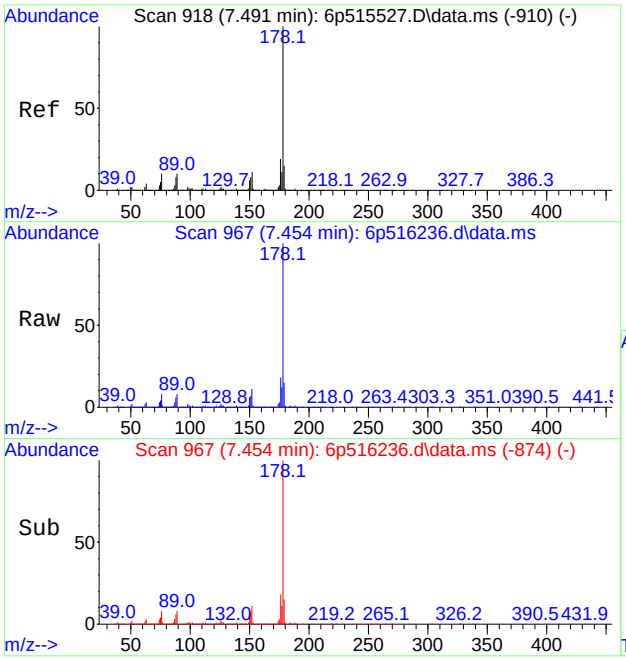


#66
Fluorene
Concen: 2.8404 ppm
RT: 6.662 min Scan# 819
Delta R.T. -0.000 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:166 Resp: 17966

Ion	Ratio	Lower	Upper
166	100		
165	94.8	66.1	126.1
167	13.9	0.0	43.4

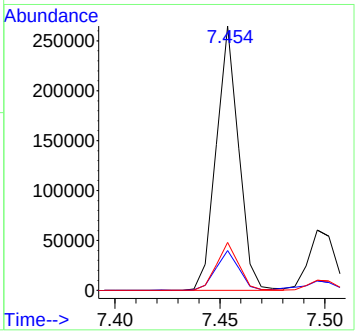


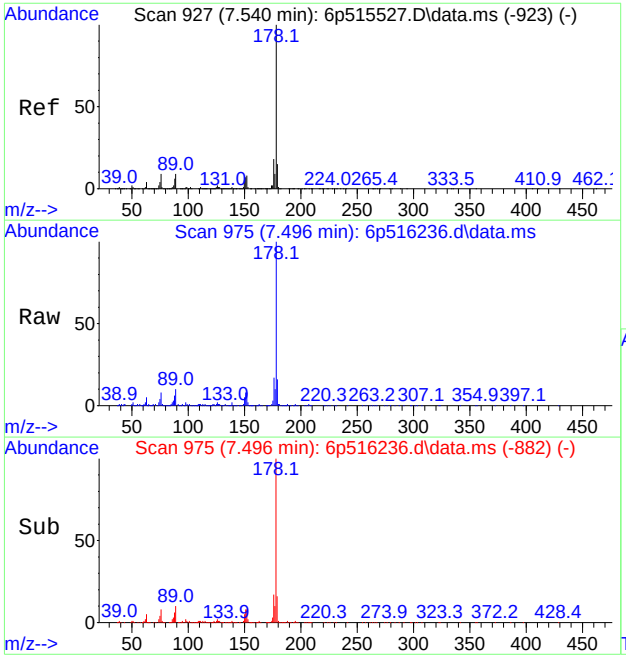


#78
Phenanthrene
Concen: 20.5409 ppm
RT: 7.454 min Scan# 967
Delta R.T. -0.000 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:178 Resp: 197119

Ion	Ratio	Lower	Upper
178	100		
179	14.6	0.0	45.1
176	18.1	0.0	48.2

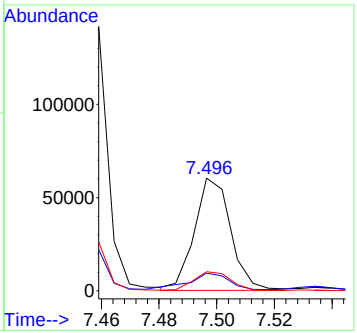


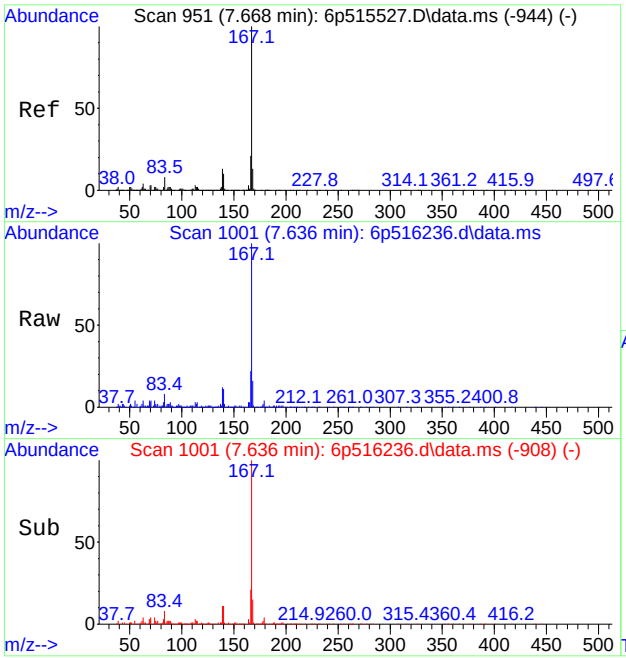


#79
Anthracene
Concen: 5.4244 ppm
RT: 7.496 min Scan# 975
Delta R.T. -0.000 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:178 Resp: 52691

Ion	Ratio	Lower	Upper
178	100		
179	13.6	0.0	45.5
176	17.1	0.0	47.1

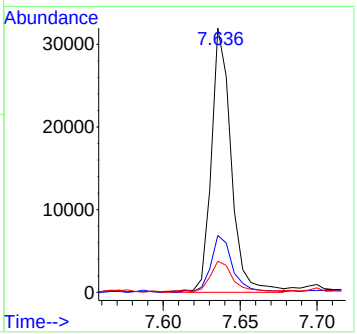


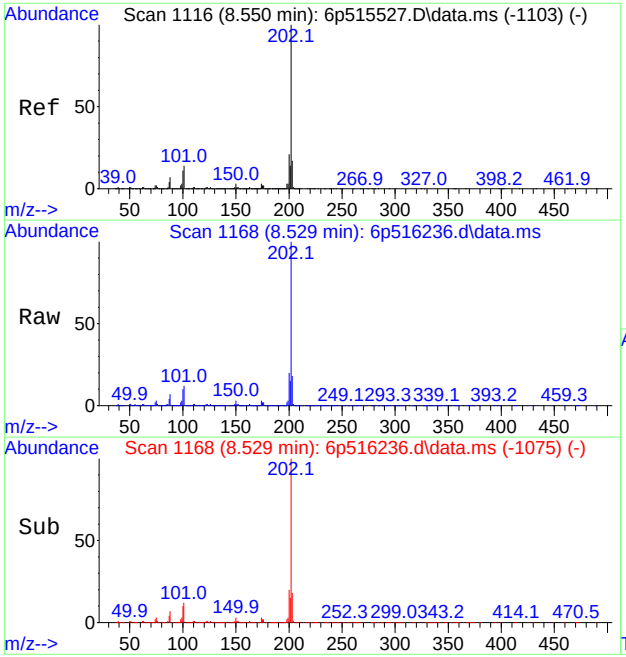


#80
Carbazole
Concen: 3.0706 ppm
RT: 7.636 min Scan# 1001
Delta R.T. -0.000 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:167 Resp: 28624

Ion	Ratio	Lower	Upper
167	100		
166	21.4	0.0	51.9
139	11.3	0.0	43.8

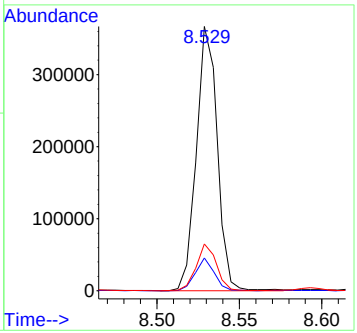


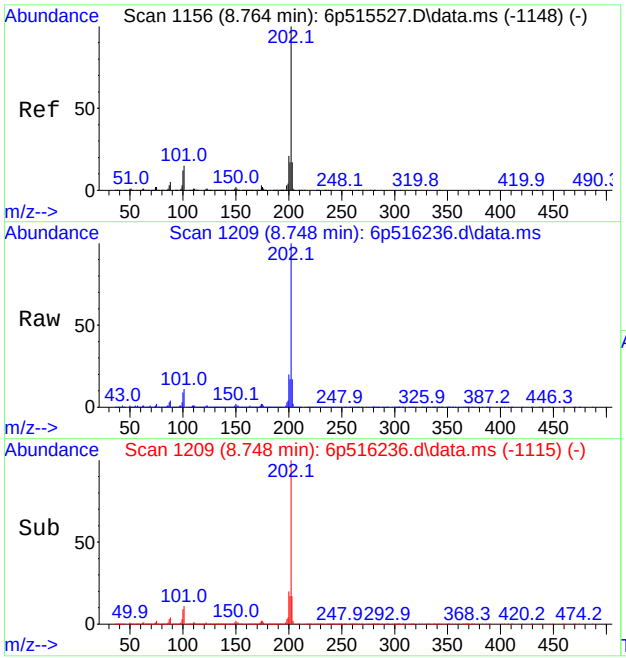


#82
Fluoranthene
Concen: 31.0407 ppm
RT: 8.529 min Scan# 1168
Delta R.T. -0.000 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:202 Resp: 323121

Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	40.4
203	17.6	0.0	47.0

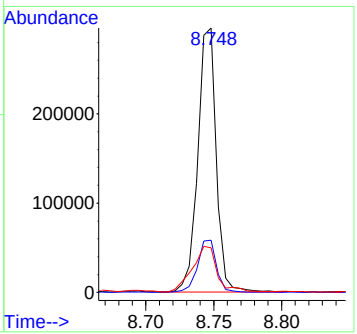


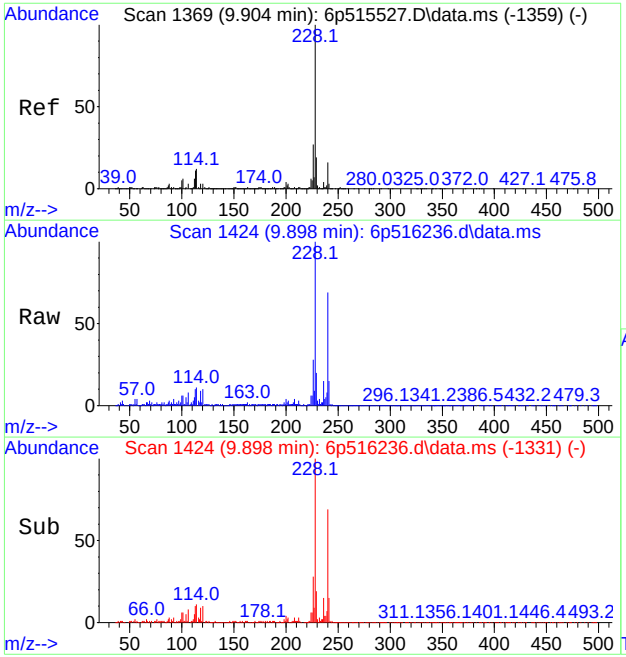


#86
Pyrene
Concen: 24.3011 ppm
RT: 8.748 min Scan# 1209
Delta R.T. 0.005 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:202 Resp: 279667

Ion	Ratio	Lower	Upper
202	100		
200	19.7	0.0	49.6
203	16.6	0.0	46.6

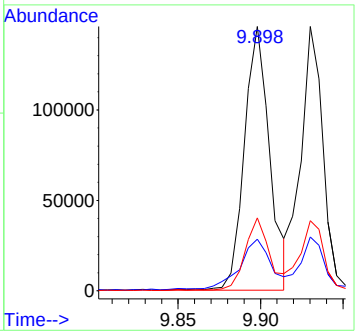


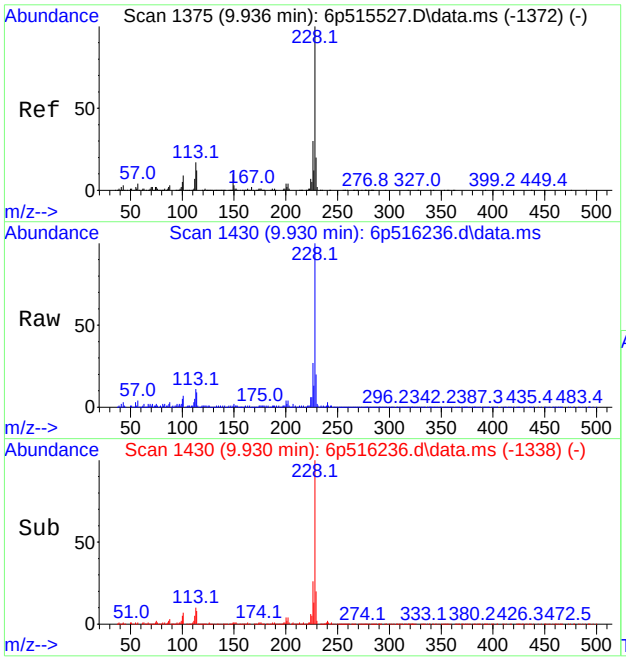


#89
Benzo[a]anthracene
Concen: 14.6833 ppm
RT: 9.898 min Scan# 1424
Delta R.T. -0.000 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:228 Resp: 155866

Ion	Ratio	Lower	Upper
228	100		
229	18.5	0.0	49.0
226	26.9	0.0	55.5

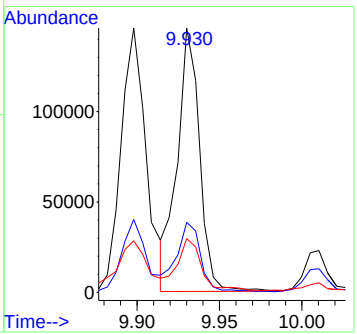


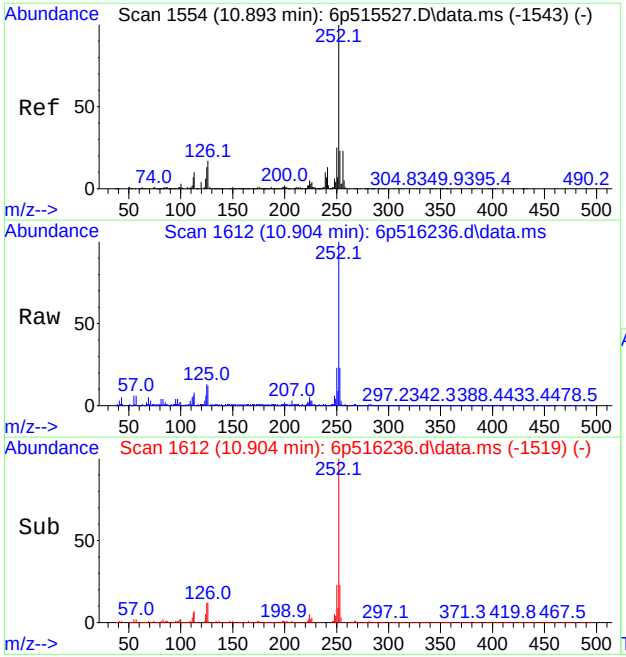


#91
Chrysene
Concen: 13.8487 ppm
RT: 9.930 min Scan# 1430
Delta R.T. -0.005 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:228 Resp: 137754

Ion	Ratio	Lower	Upper
228	100		
226	25.5	0.0	58.1
229	19.3	0.0	48.7

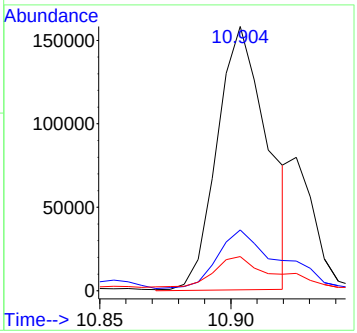


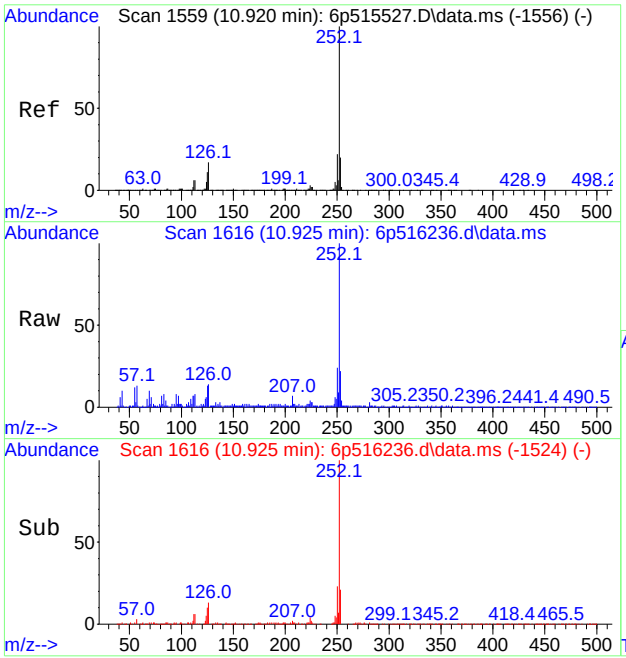


#95
Benzo[b]fluoranthene
Concen: 17.4584 ppm m
RT: 10.904 min Scan# 1612
Delta R.T. -0.000 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:252 Resp: 212241

Ion	Ratio	Lower	Upper
252	100		
253	23.0	0.0	52.3
125	13.0	0.0	40.7

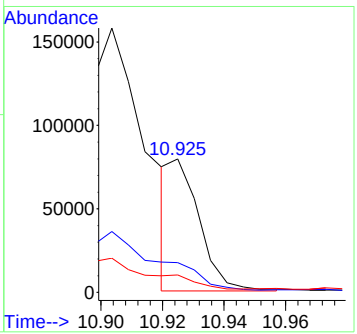


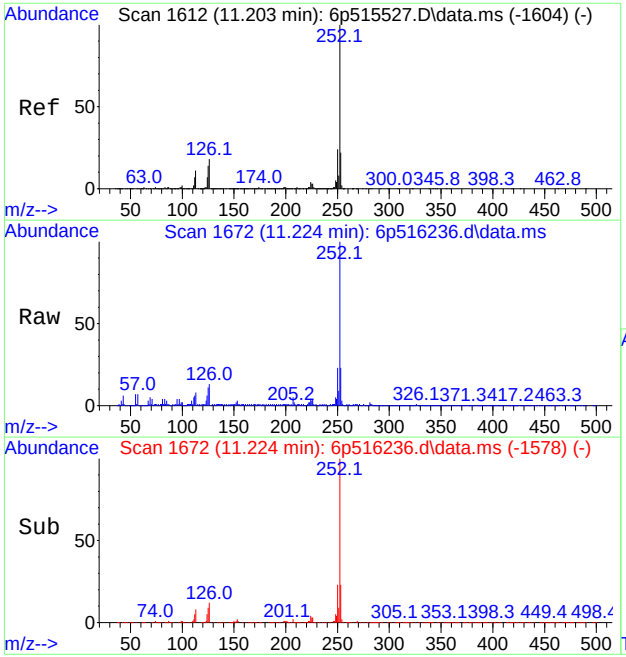


#96
Benzo[k]fluoranthene
Concen: 4.5292 ppm m
RT: 10.925 min Scan# 1616
Delta R.T. -0.005 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:252 Resp: 52149

Ion	Ratio	Lower	Upper
252	100		
253	22.4	0.0	52.0
125	13.2	0.0	40.7

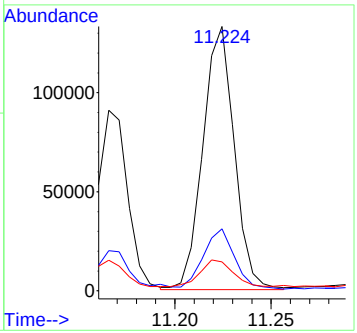


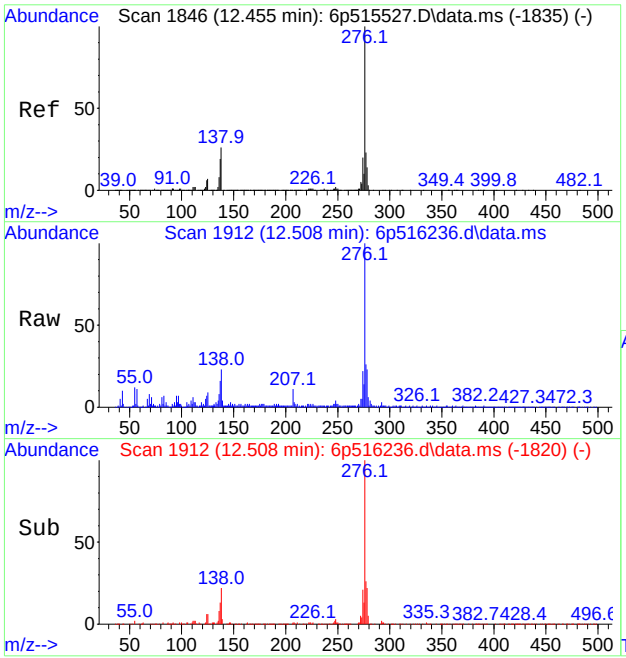


#97
Benzo[a]pyrene
Concen: 14.3461 ppm
RT: 11.224 min Scan# 1672
Delta R.T. 0.005 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:252 Resp: 150885

Ion	Ratio	Lower	Upper
252	100		
253	22.1	0.0	51.6
125	9.2	0.0	41.7

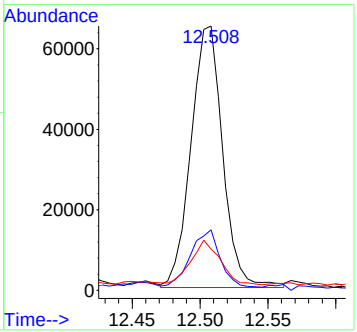


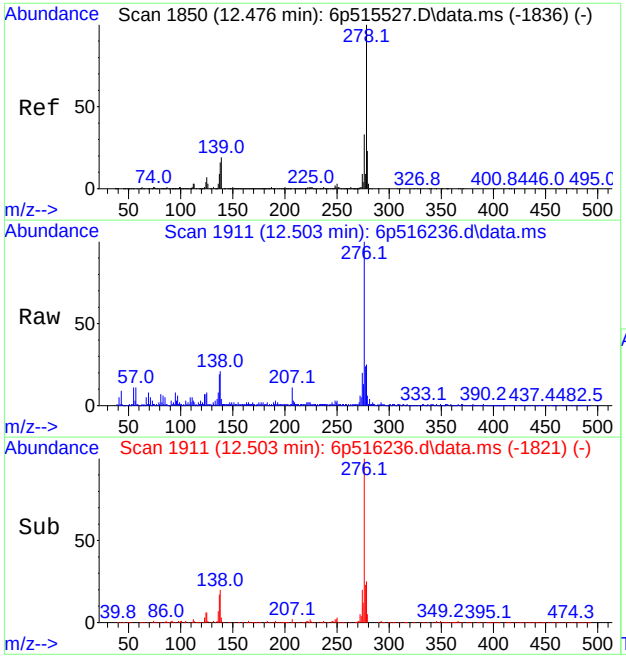


#98
Indeno[1,2,3-cd]pyrene
Concen: 7.7001 ppm
RT: 12.508 min Scan# 1912
Delta R.T. -0.005 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:276 Resp: 105679

Ion	Ratio	Lower	Upper
276	100		
138	21.5	0.0	57.8
137	13.2	0.0	48.8

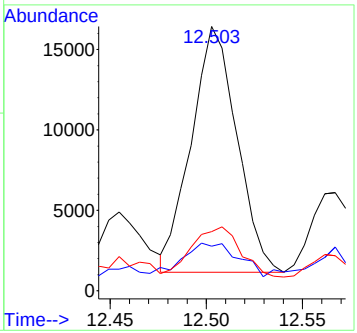


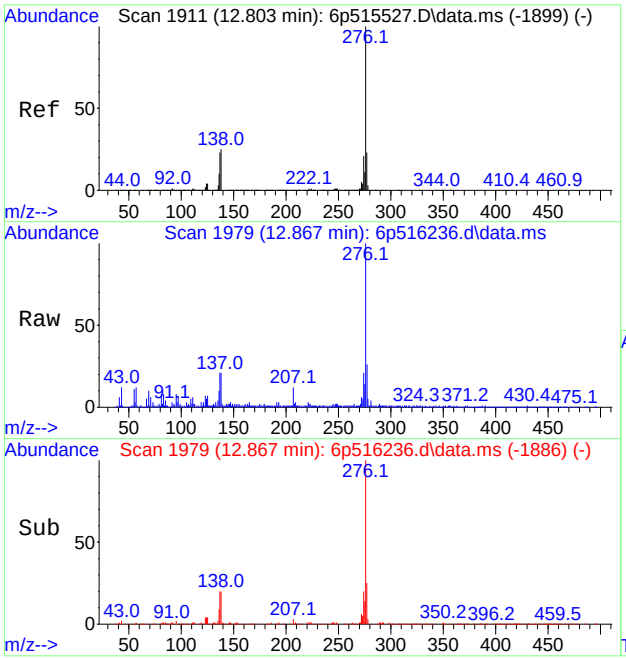


#100
Dibenz[a,h]anthracene
Concen: 2.2545 ppm
RT: 12.503 min Scan# 1911
Delta R.T. -0.016 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:278 Resp: 25156

Ion	Ratio	Lower	Upper
278	100		
139	9.9	0.0	44.9
279	18.5	0.0	53.0

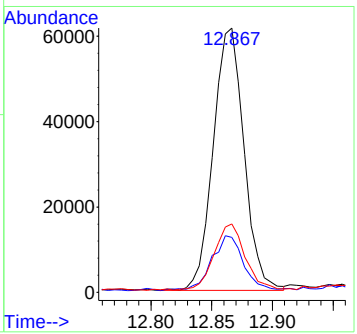




#102
Benzo[g,h,i]perylene
Concen: 10.1365 ppm
RT: 12.867 min Scan# 1979
Delta R.T. -0.000 min
Lab File: 6p516236.d
Acq: 2 Jul 2024 3:44 pm

Tgt Ion:276 Resp: 108004

Ion	Ratio	Lower	Upper
276	100		
138	20.1	0.0	50.8
277	25.1	0.0	53.1



Manual Integrations APPROVED (compounds with "m" flag)
Ying Li
07/03/24 08:32

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14 Inst : GCMSCJ
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 02 04:20:21 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.365	152	373522	40.00	ppm	0.00
24) Naphthalene-d8	5.162	136	1367625	40.00	ppm	0.00
46) Acenaphthene-d10	6.312	164	764618	40.00	ppm	0.00
69) Phenanthrene-d10	7.489	188	1450188	40.00	ppm	0.00
84) Chrysene-d12	9.976	240	1096753	40.00	ppm	0.02
93) Perylene-d12	11.287	264	1175914	40.00	ppm	0.02
103) 1,4-Dichlorobenzene-d4a	4.365	152	373522	40.00	ppm	0.00
105) Phenanthrene-d10a	7.489	188	1450188	40.00	ppm	0.00
107) Naphthalene-d8a	5.162	136	1367625	40.00	ppm	0.00
109) Phenanthrene-d10b	7.489	188	1450188	40.00	ppm	0.00
112) Chrysene-d12a	9.976	240	1096753	40.00	ppm	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.547	112	230353	21.46	ppm	0.02
Spiked Amount 50.000			Recovery = 42.92%			
8) Phenol-d5	4.173	99	326668	23.59	ppm	0.02
Spiked Amount 50.000			Recovery = 47.18%			
25) Nitrobenzene-d5	4.718	82	325860	23.27	ppm	0.00
Spiked Amount 50.000			Recovery = 46.54%			
51) 2-Fluorobiphenyl	5.842	172	639869	26.59	ppm	0.00
Spiked Amount 50.000			Recovery = 53.18%			
74) 2,4,6-Tribromophenol	6.911	330	83713	26.33	ppm	0.00
Spiked Amount 50.000			Recovery = 52.66%			
87) Terphenyl-d14	8.954	244	741905	27.38	ppm	0.00
Spiked Amount 50.000			Recovery = 54.76%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
18) Acetophenone	4.627	105	4796m	0.2793	ppm	
21) 3&4-Methylphenol	4.654	108	3074	0.2884	ppm	89
30) 2,4-Dimethylphenol	4.970	107	1788	0.1428	ppm	76
38) Naphthalene	5.178	128	144368	4.4068	ppm	99
44) 2-Methylnaphthalene	5.612	141	77558	3.9928	ppm	97
53) Biphenyl	5.911	154	33246	1.2655	ppm	98
56) Acenaphthylene	6.211	152	100455	3.3873	ppm	99
59) Acenaphthene	6.334	153	294400	13.9592	ppm	98
62) Dibenzofuran	6.462	168	202203	6.9089	ppm	97
66) Fluorene	6.719	166	315400m	13.6419	ppm	
78) Phenanthrene	7.516	178	3179552	90.7225	ppm	99
79) Anthracene	7.558	178	913550	26.0325	ppm	98
80) Carbazole	7.703	167	508840	15.5607	ppm	99
82) Fluoranthene	8.596	202	5124162	135.0514	ppm	96
86) Pyrene	8.810	202	4376707	117.3413	ppm	99
88) Butylbenzylphthalate	9.436	149	13937	0.8375	ppm	99
89) Benzo[a]anthracene	9.965	228	2507255	71.1008	ppm	98
91) Chrysene	10.003	228	2117787	65.0928	ppm	97
92) bis(2-Ethylhexyl)phtha...	10.003	149	33253	1.3491	ppm	88
95) Benzo[b]fluoranthene	10.966	252	2914381m	82.0426	ppm	
96) Benzo[k]fluoranthene	10.982	252	848288m	26.5384	ppm	
97) Benzo[a]pyrene	11.244	252	2126818	72.3245	ppm	98
98) Indeno[1,2,3-cd]pyrene	12.335	276	1436459	40.4067	ppm	88
100) Dibenz[a,h]anthracene	12.335	278	387168	13.6299	ppm	81
102) Benzo[g,h,i]perylene	12.634	276	1448329	52.4257	ppm	98
104) Benzaldehyde	4.114	105	7247	0.6778	ppm #	46

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14 Inst : GCMSCJ
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 02 04:20:21 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14 Inst : GCMSCJ
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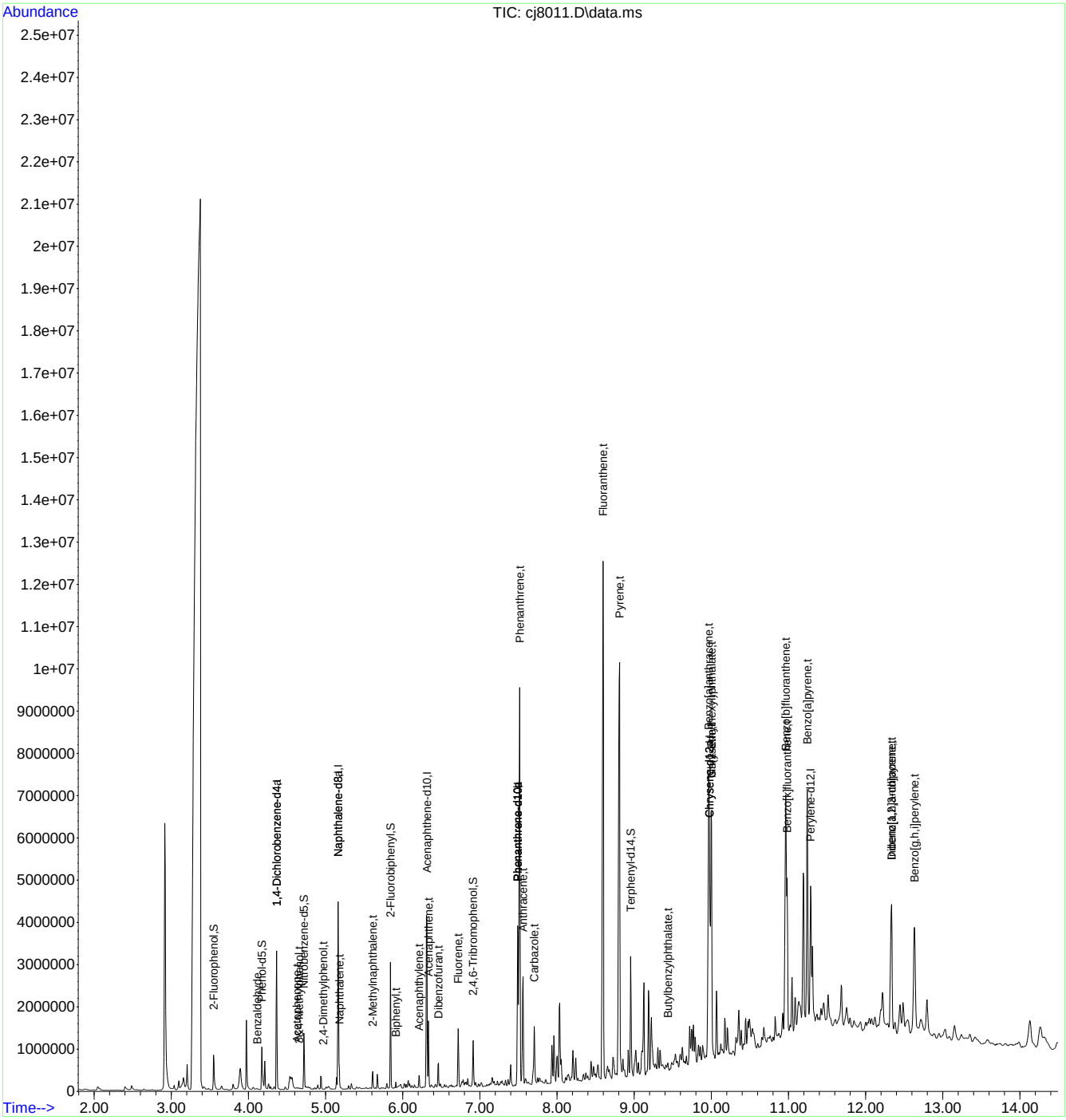
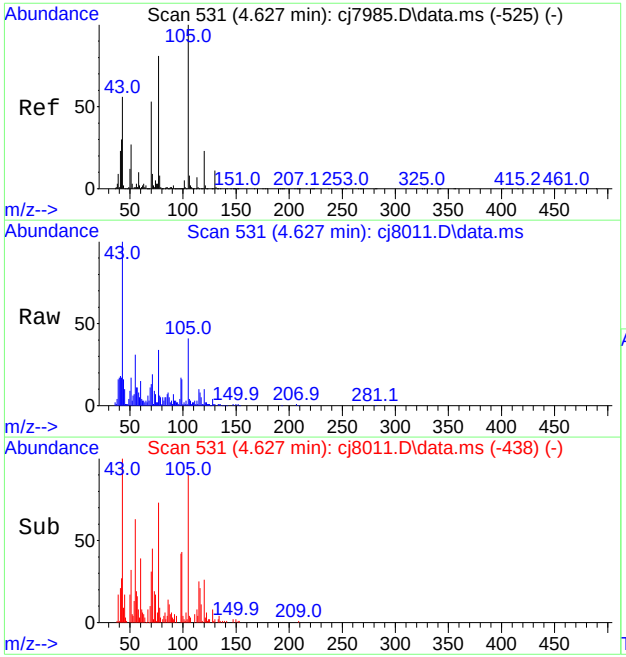
Quant Time: Jul 02 04:20:21 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

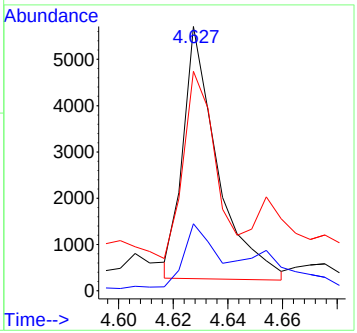


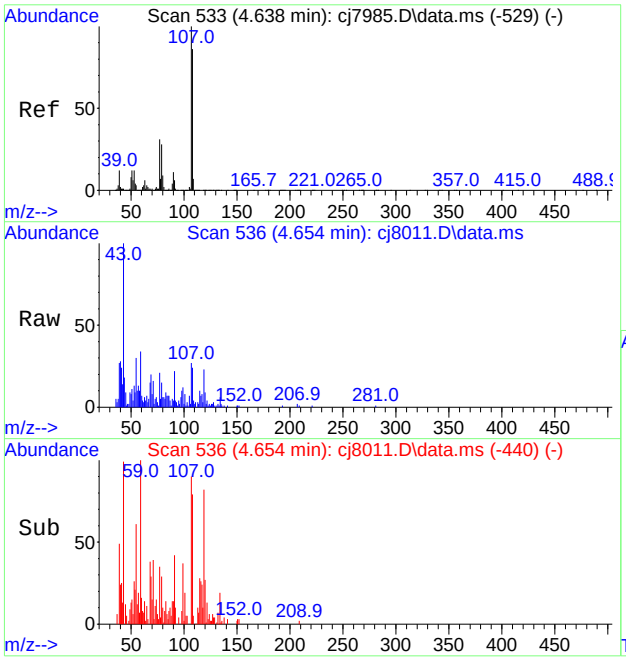


#18
Acetophenone
Concen: 0.2793 ppm m
RT: 4.627 min Scan# 531
Delta R.T. 0.000 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:105 Resp: 4796

Ion	Ratio	Lower	Upper
105	100		
120	25.4	0.0	53.1
77	83.0	50.8	110.8

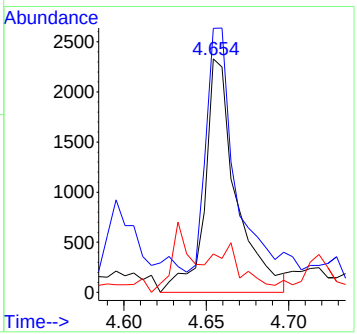


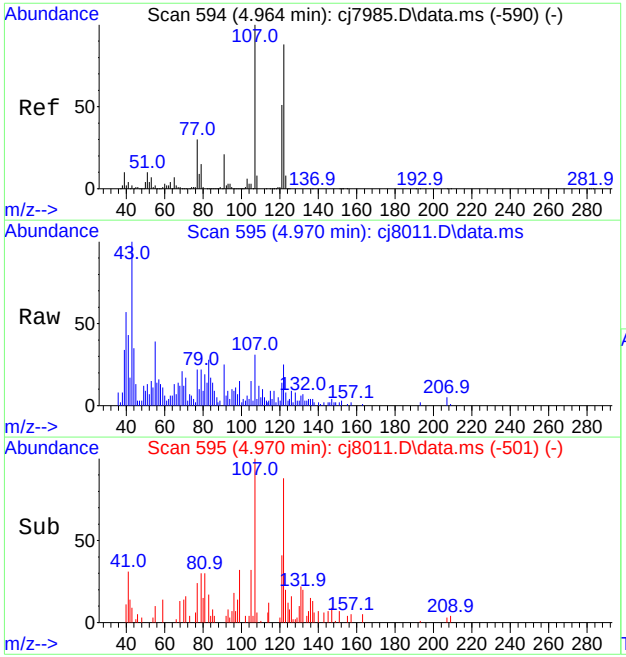


#21
3&4-Methylphenol
Concen: 0.2884 ppm
RT: 4.654 min Scan# 536
Delta R.T. 0.016 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:108 Resp: 3074

Ion	Ratio	Lower	Upper
108	100		
107	102.3	85.6	145.6
90	12.6	0.0	42.2

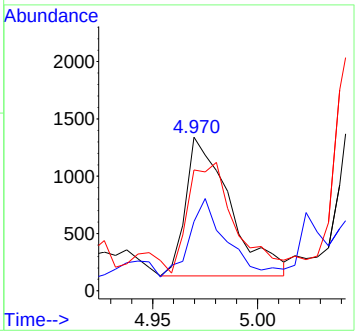


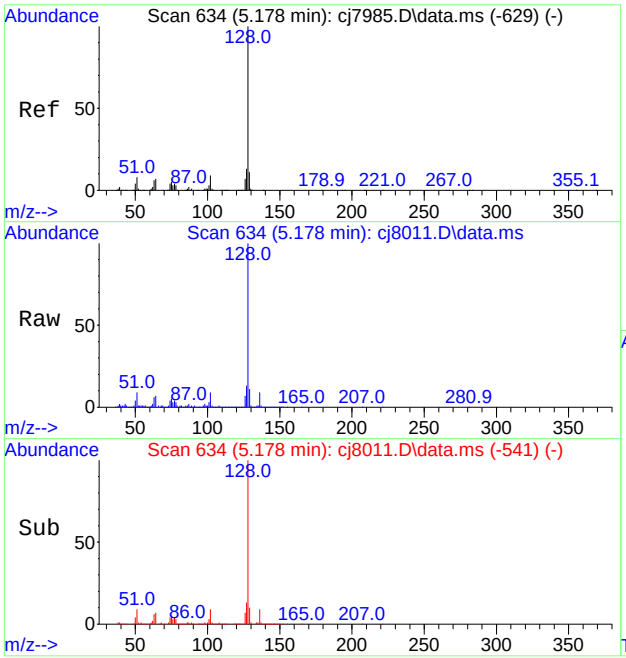


#30
2,4-Dimethylphenol
Concen: 0.1428 ppm
RT: 4.970 min Scan# 595
Delta R.T. 0.005 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:107 Resp: 1788

Ion	Ratio	Lower	Upper
107	100		
121	27.5	21.3	81.3
122	68.5	54.0	114.0

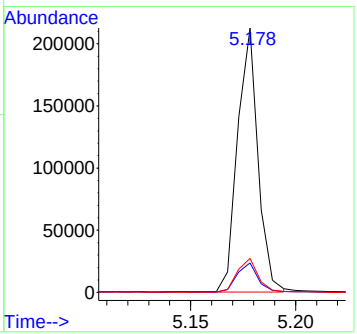


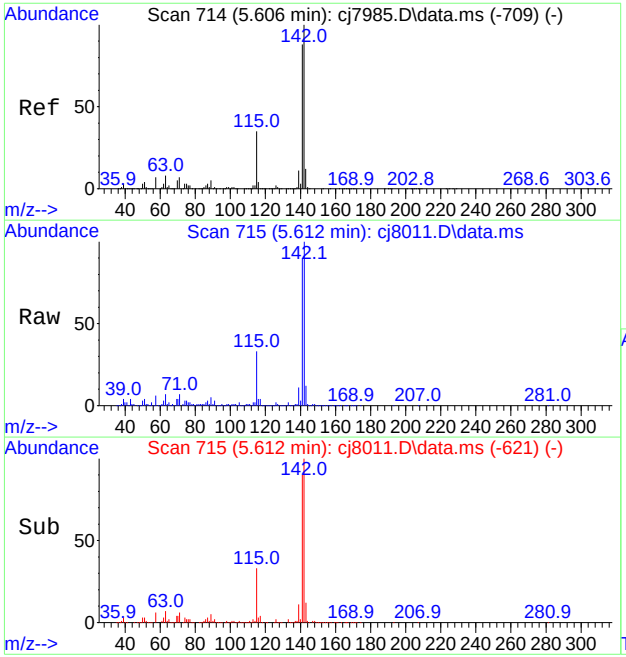


#38
Naphthalene
Concen: 4.4068 ppm
RT: 5.178 min Scan# 634
Delta R.T. 0.000 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:128 Resp: 144368

Ion	Ratio	Lower	Upper
128	100		
129	10.9	0.0	41.3
127	12.8	0.0	43.5

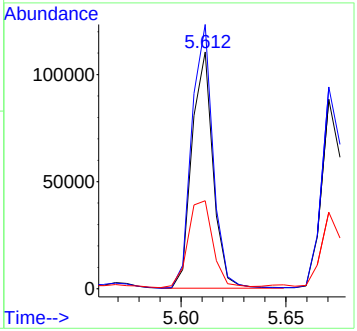


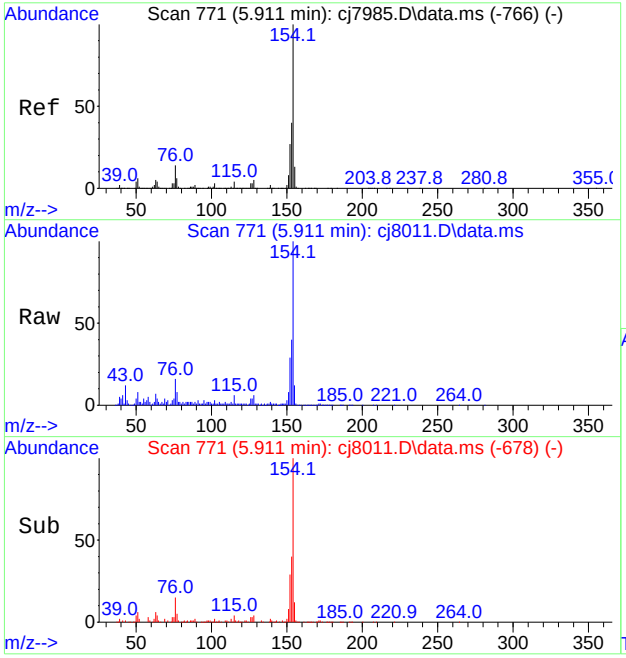


#44
2-Methylnaphthalene
Concen: 3.9928 ppm
RT: 5.612 min Scan# 715
Delta R.T. 0.005 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:141 Resp: 77558

Ion	Ratio	Lower	Upper
141	100		
142	111.7	83.7	143.7
115	36.2	9.3	69.3

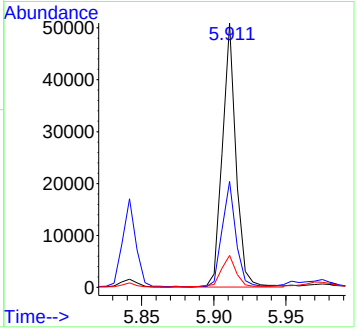


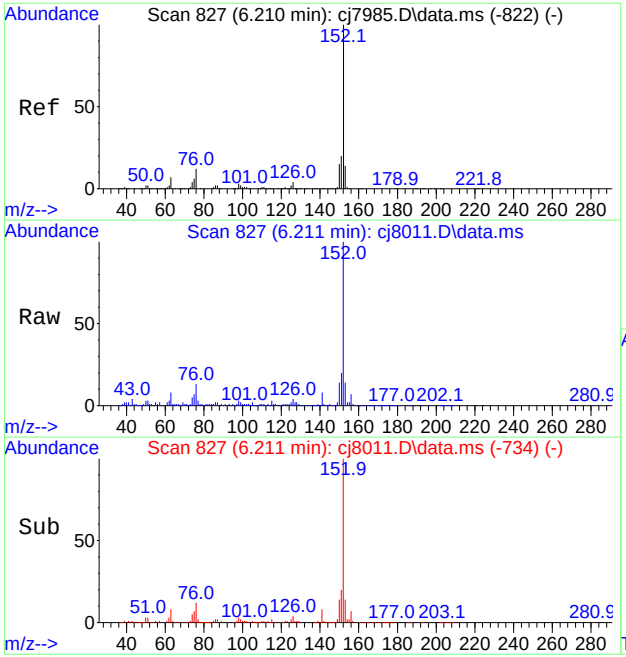


#53
Biphenyl
Concen: 1.2655 ppm
RT: 5.911 min Scan# 771
Delta R.T. 0.000 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:154 Resp: 33246

Ion	Ratio	Lower	Upper
154	100		
153	39.4	10.3	70.3
155	11.7	0.0	42.9

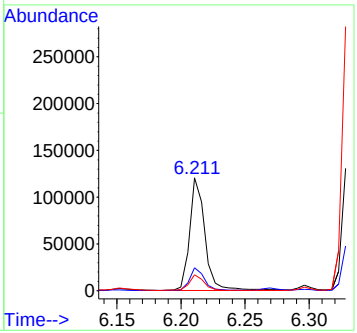


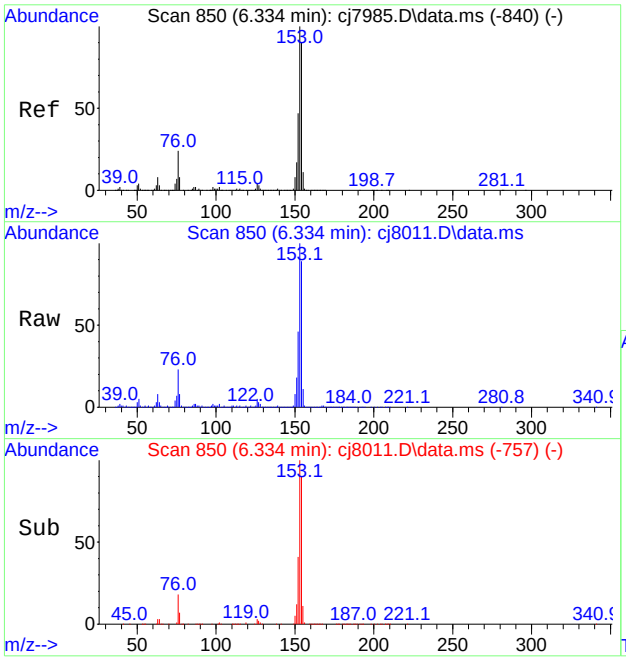


#56
Acenaphthylene
Concen: 3.3873 ppm
RT: 6.211 min Scan# 827
Delta R.T. 0.000 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:152 Resp: 100455

Ion	Ratio	Lower	Upper
152	100		
151	20.1	0.0	50.2
153	13.9	0.0	43.5

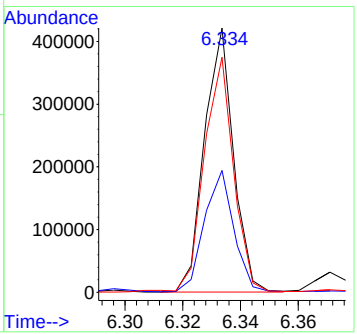


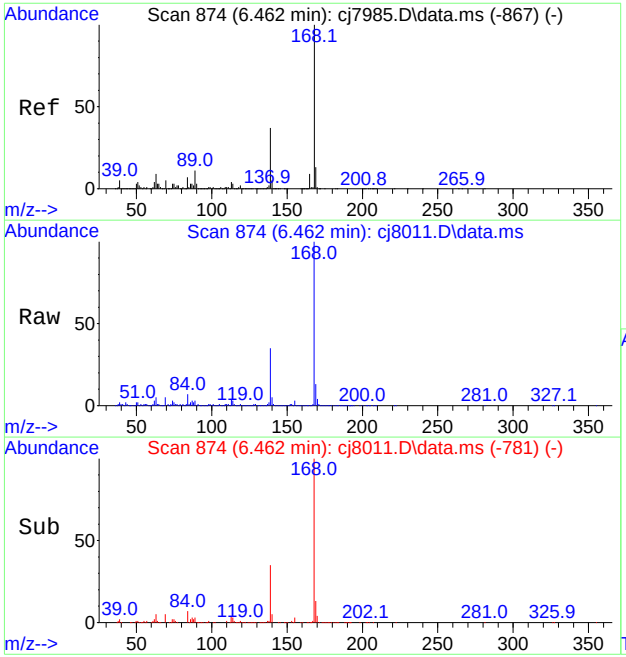


#59
Acenaphthene
Concen: 13.9592 ppm
RT: 6.334 min Scan# 850
Delta R.T. 0.000 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:153 Resp: 294400

Ion	Ratio	Lower	Upper
153	100		
152	46.0	16.9	76.9
154	88.7	56.2	116.2

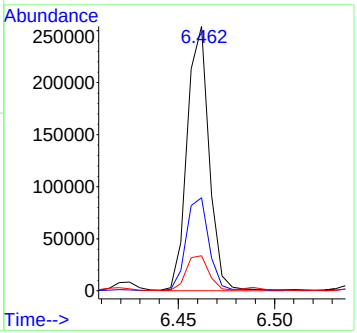


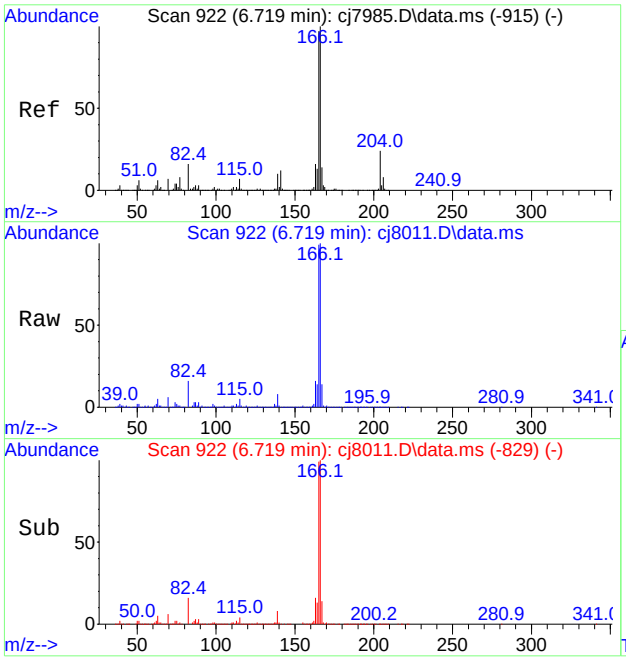


#62
Dibenzofuran
Concen: 6.9089 ppm
RT: 6.462 min Scan# 874
Delta R.T. 0.000 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:168 Resp: 202203

Ion	Ratio	Lower	Upper
168	100		
139	35.1	7.3	67.3
169	13.2	0.0	43.4

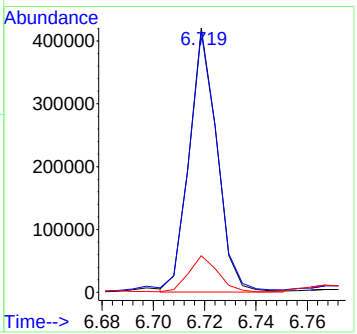


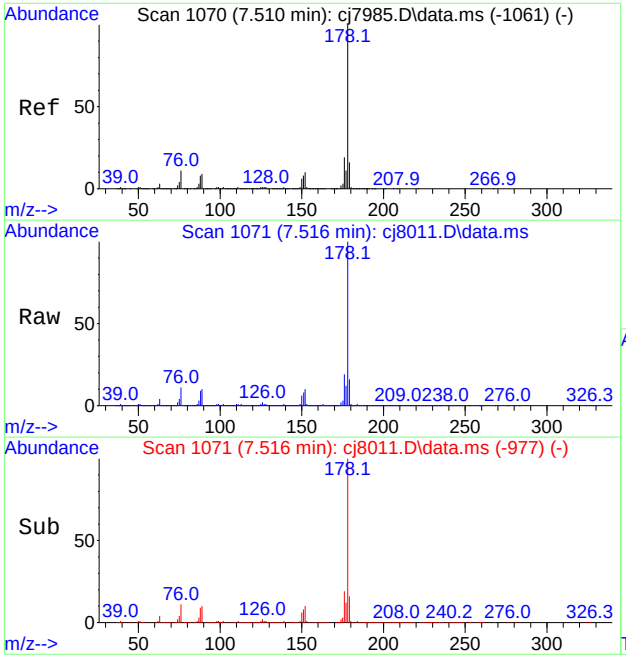


#66
Fluorene
Concen: 13.6419 ppm m
RT: 6.719 min Scan# 922
Delta R.T. 0.000 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:166 Resp: 315400

Ion	Ratio	Lower	Upper
166	100		
165	98.6	67.2	127.2
167	13.9	0.0	43.8

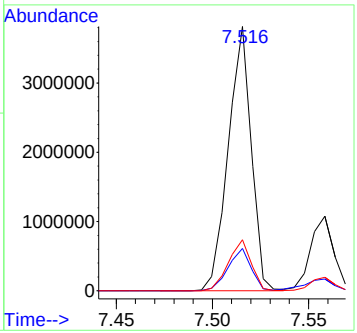


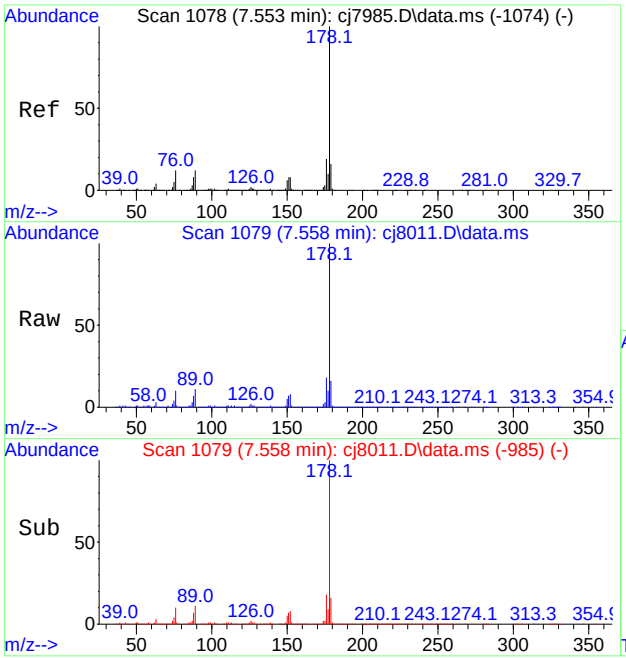


#78
Phenanthrene
Concen: 90.7225 ppm
RT: 7.516 min Scan# 1071
Delta R.T. 0.005 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:178 Resp: 3179552

Ion	Ratio	Lower	Upper
178	100		
179	15.7	0.0	45.5
176	19.3	0.0	48.7

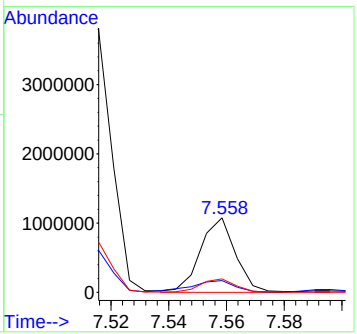


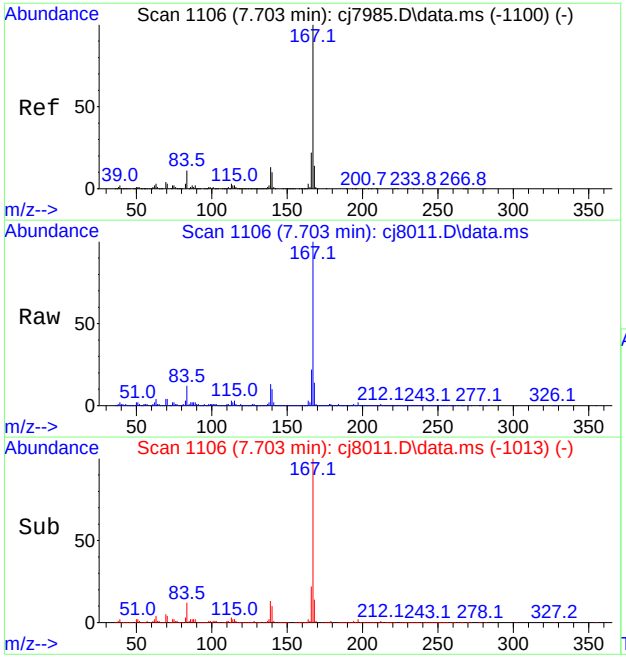


#79
Anthracene
Concen: 26.0325 ppm
RT: 7.558 min Scan# 1079
Delta R.T. 0.005 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:178 Resp: 913550

Ion	Ratio	Lower	Upper
178	100		
179	14.6	0.0	45.9
176	18.3	0.0	48.8

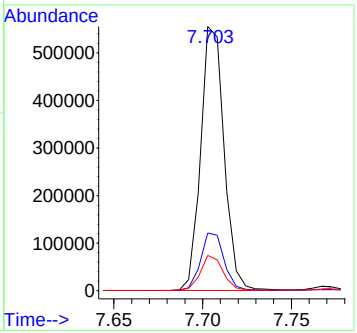


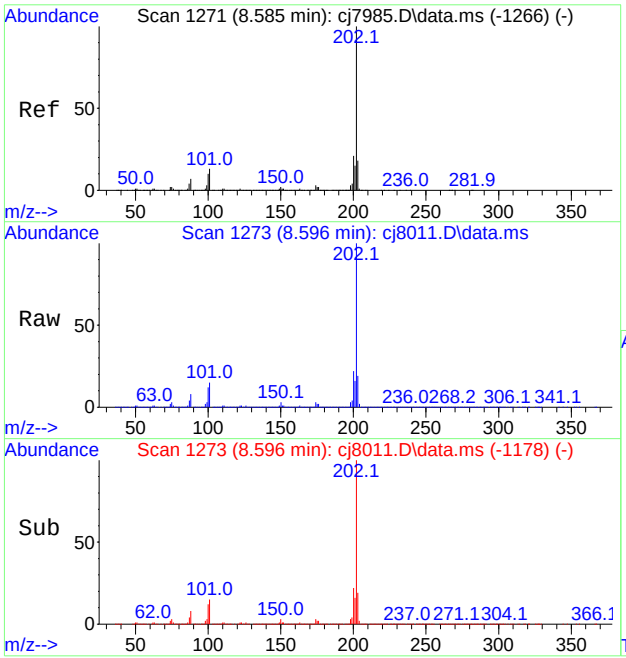


#80
Carbazole
Concen: 15.5607 ppm
RT: 7.703 min Scan# 1106
Delta R.T. 0.000 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:167 Resp: 508840

Ion	Ratio	Lower	Upper
167	100		
166	21.8	0.0	51.7
139	13.3	0.0	42.8

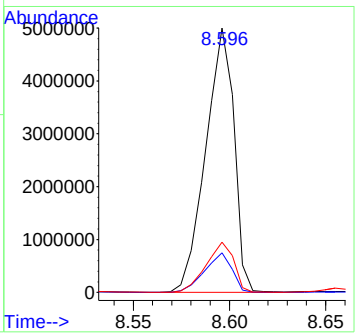


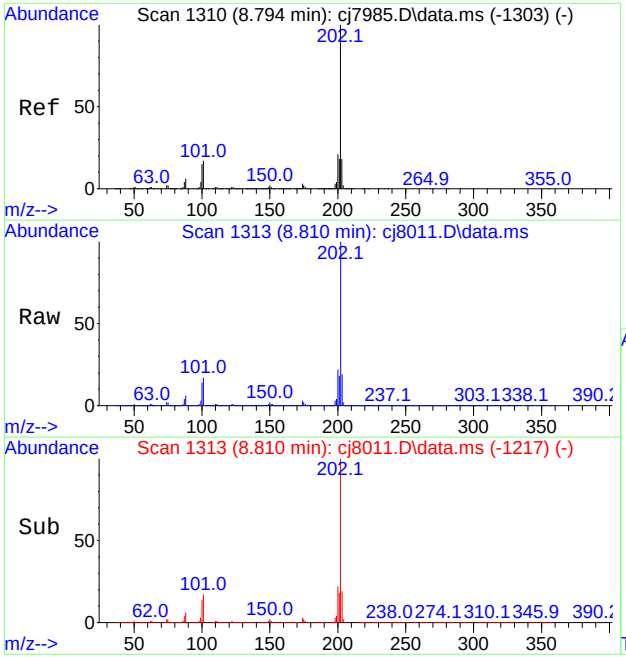


#82
Fluoranthene
Concen: 135.0514 ppm
RT: 8.596 min Scan# 1273
Delta R.T. 0.011 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:202 Resp: 5124162

Ion	Ratio	Lower	Upper
202	100		
101	14.9	0.0	42.9
203	19.0	0.0	47.5

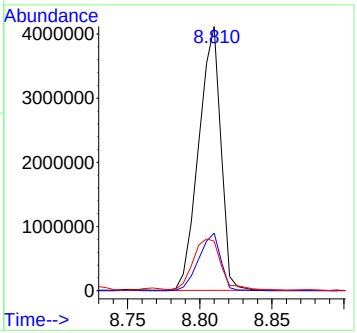


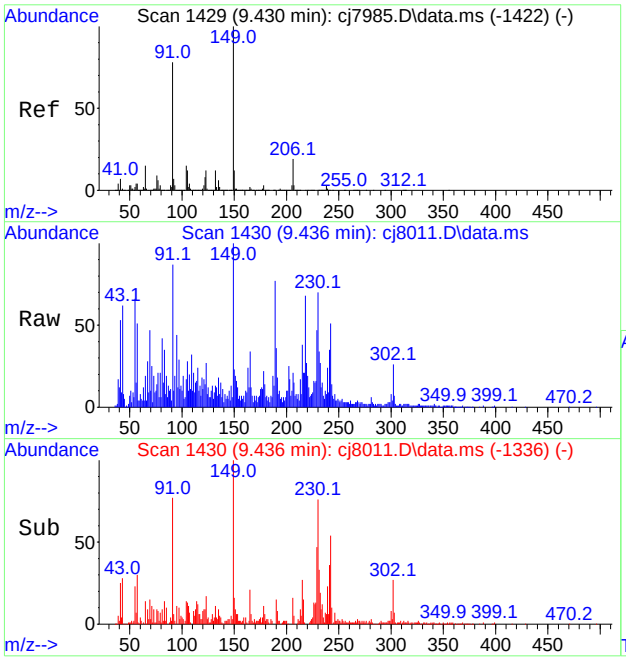


#86
Pyrene
Concen: 117.3413 ppm
RT: 8.810 min Scan# 1313
Delta R.T. 0.016 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:202 Resp: 4376707

Ion	Ratio	Lower	Upper
202	100		
200	21.9	0.0	51.0
203	18.3	0.0	48.5

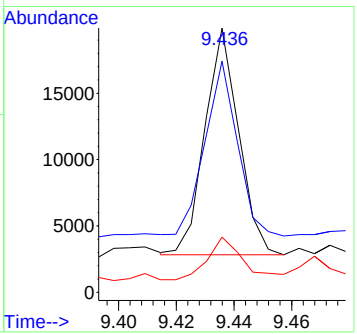


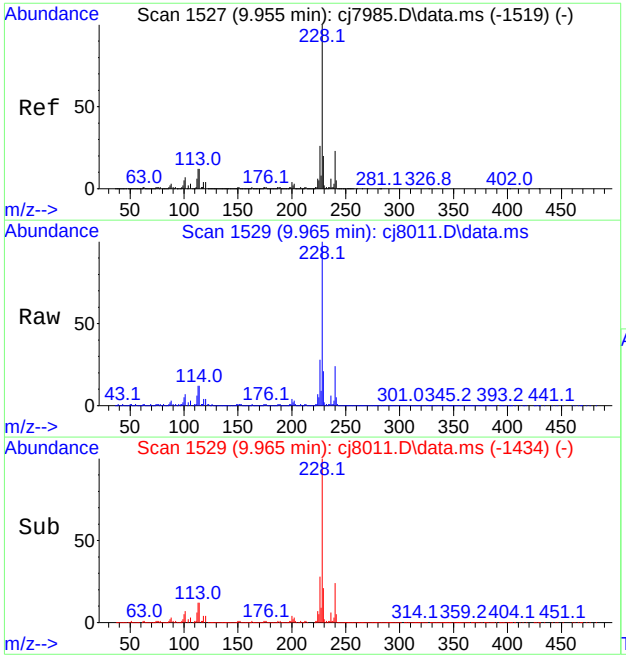


#88
Butylbenzylphthalate
Concen: 0.8375 ppm
RT: 9.436 min Scan# 1430
Delta R.T. 0.005 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:149 Resp: 13937

Ion	Ratio	Lower	Upper
149	100		
91	77.2	47.5	107.5
206	17.7	0.0	49.2

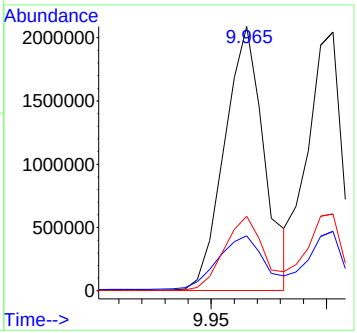


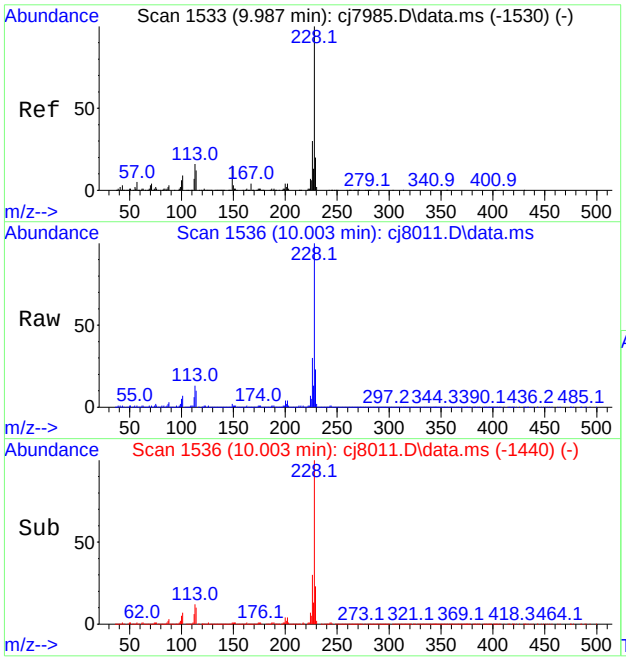


#89
Benzo[a]anthracene
Concen: 71.1008 ppm
RT: 9.965 min Scan# 1529
Delta R.T. 0.011 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:228 Resp: 2507255

Ion	Ratio	Lower	Upper
228	100		
229	20.0	0.0	49.9
226	27.8	0.0	56.5

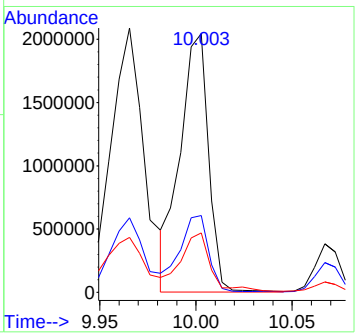


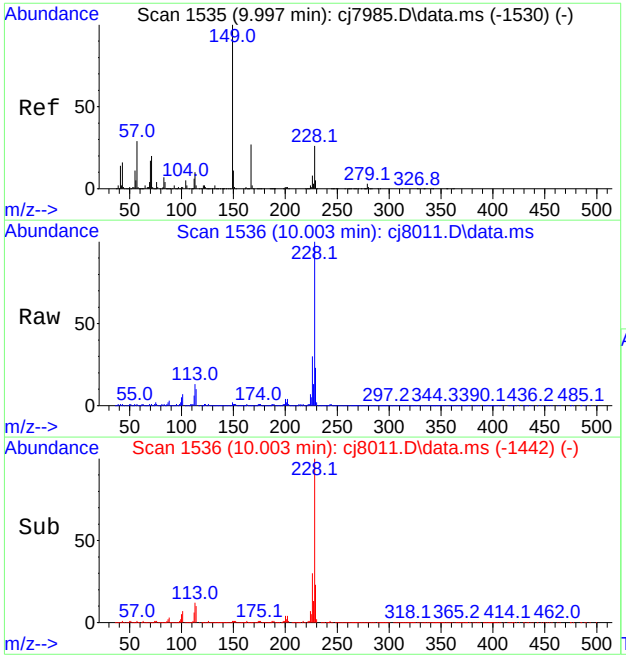


#91
Chrysene
Concen: 65.0928 ppm
RT: 10.003 min Scan# 1536
Delta R.T. 0.016 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:228 Resp: 2117787

Ion	Ratio	Lower	Upper
228	100		
226	29.4	0.3	60.3
229	22.6	0.0	50.3

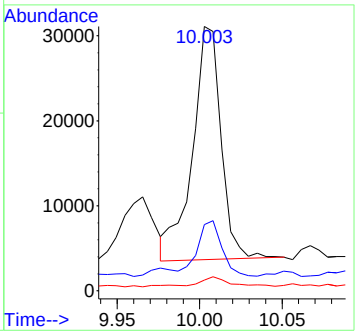


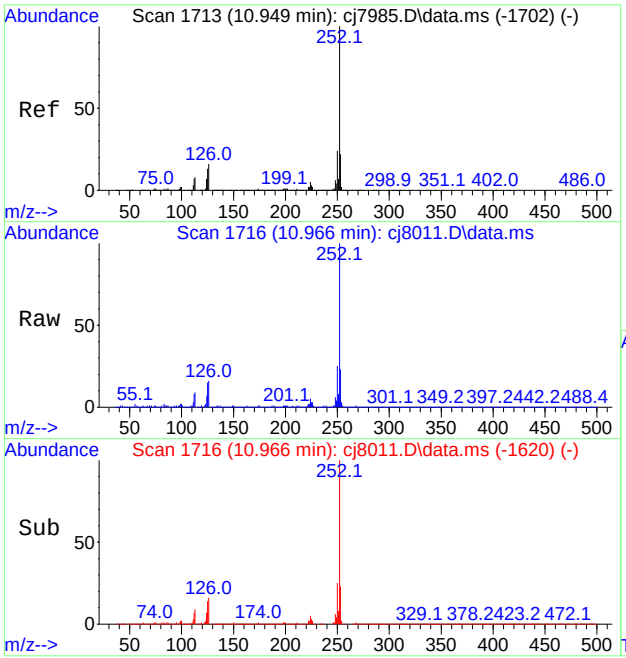


#92
bis(2-Ethylhexyl)phthalate
Concen: 1.3491 ppm
RT: 10.003 min Scan# 1536
Delta R.T. 0.005 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:149 Resp: 33253

Ion	Ratio	Lower	Upper
149	100		
167	20.3	0.0	56.9
279	2.5	0.0	33.4

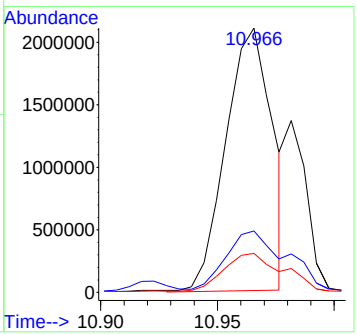


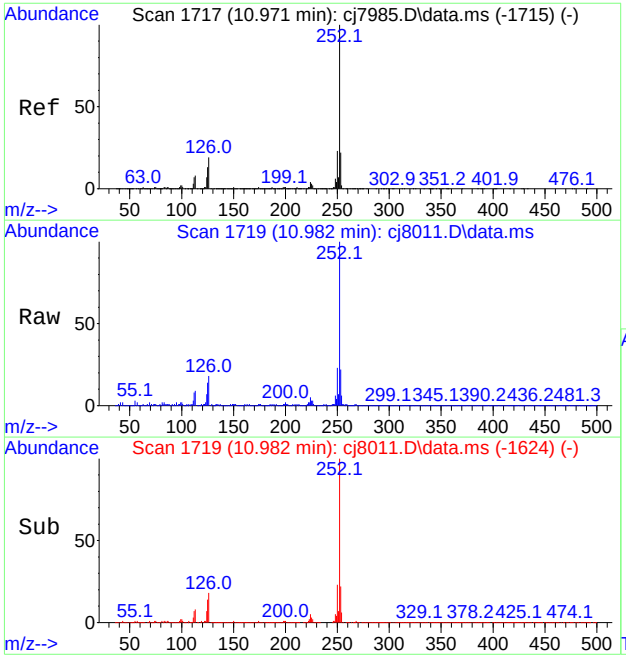


#95
Benzo[b]fluoranthene
Concen: 82.0426 ppm m
RT: 10.966 min Scan# 1716
Delta R.T. 0.016 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:252 Resp: 2914381

Ion	Ratio	Lower	Upper
252	100		
253	23.2	0.0	52.5
125	14.7	0.0	42.4

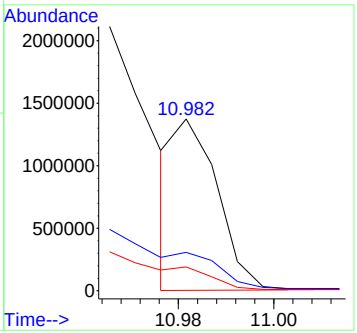


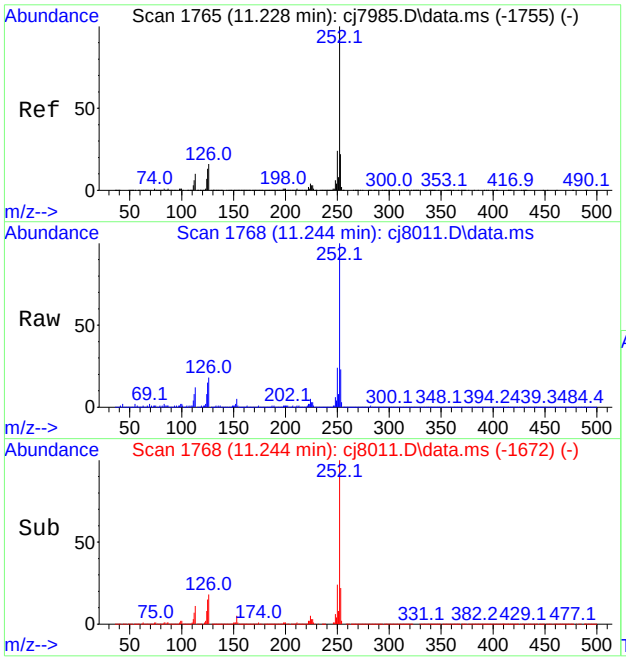


#96
Benzo[k]fluoranthene
Concen: 26.5384 ppm m
RT: 10.982 min Scan# 1719
Delta R.T. 0.011 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:252 Resp: 848288

Ion	Ratio	Lower	Upper
252	100		
253	22.4	0.0	51.7
125	13.9	0.0	43.5

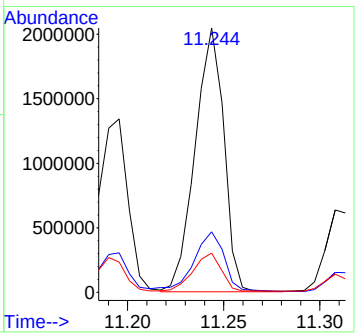


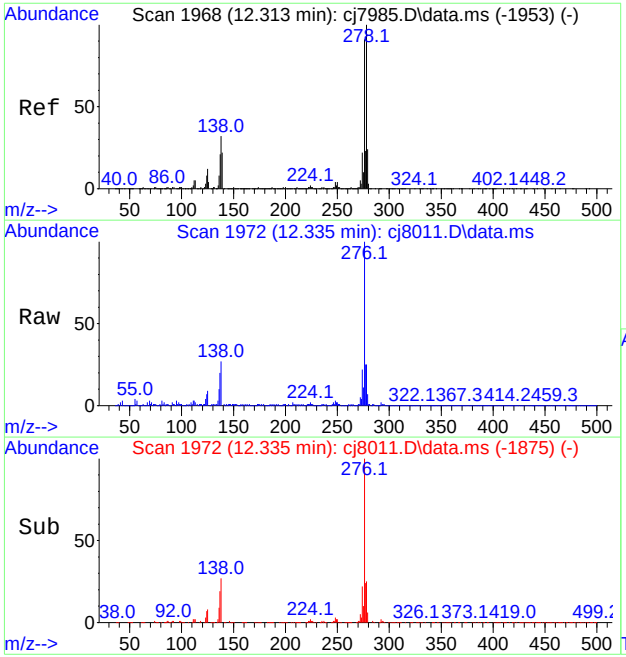


#97
Benzo[a]pyrene
Concen: 72.3245 ppm
RT: 11.244 min Scan# 1768
Delta R.T. 0.016 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:252 Resp: 2126818

Ion	Ratio	Lower	Upper
252	100		
253	22.0	0.0	52.1
125	14.5	0.0	42.5

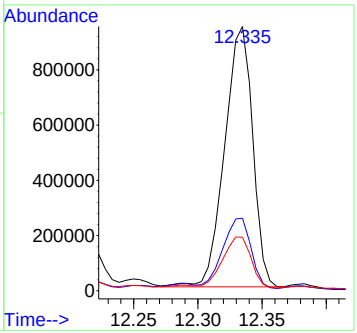


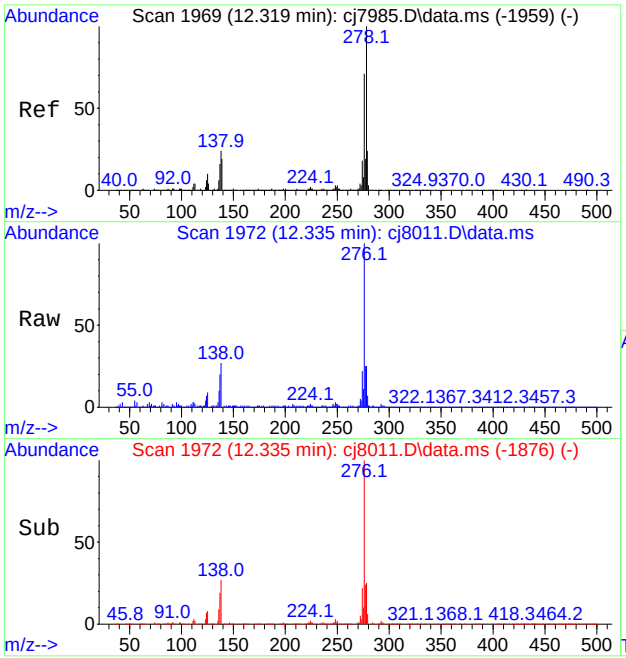


#98
Indeno[1,2,3-cd]pyrene
Concen: 40.4067 ppm
RT: 12.335 min Scan# 1972
Delta R.T. 0.021 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:276 Resp: 1436459

Ion	Ratio	Lower	Upper
276	100		
138	26.5	5.2	65.2
137	19.1	0.0	53.3

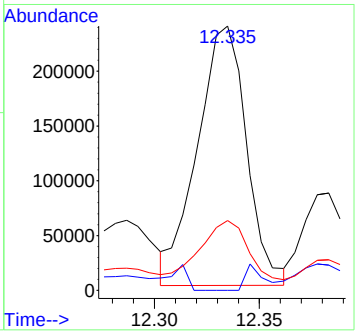


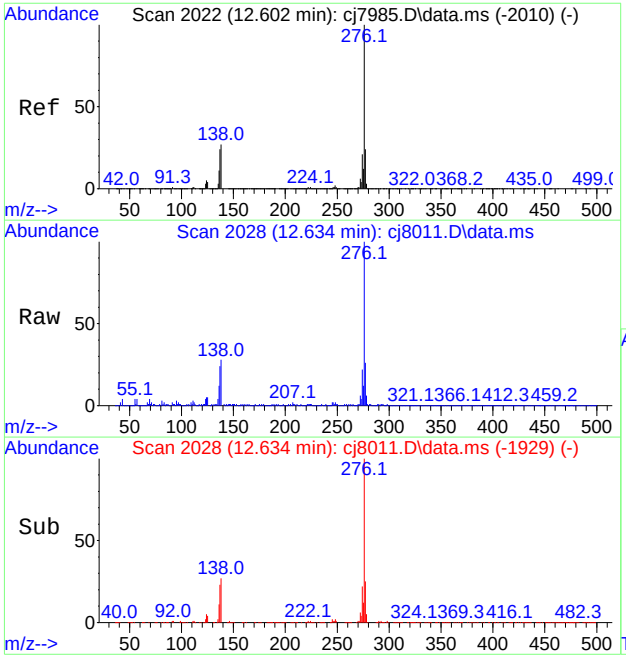


#100
Dibenz[a,h]anthracene
Concen: 13.6299 ppm
RT: 12.335 min Scan# 1972
Delta R.T. 0.016 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:278 Resp: 387168

Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	48.9
279	24.2	0.0	53.7

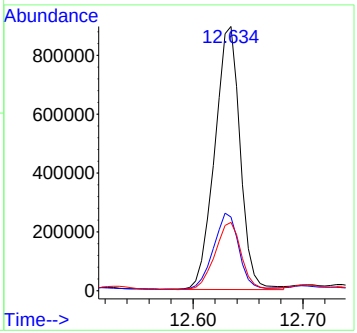


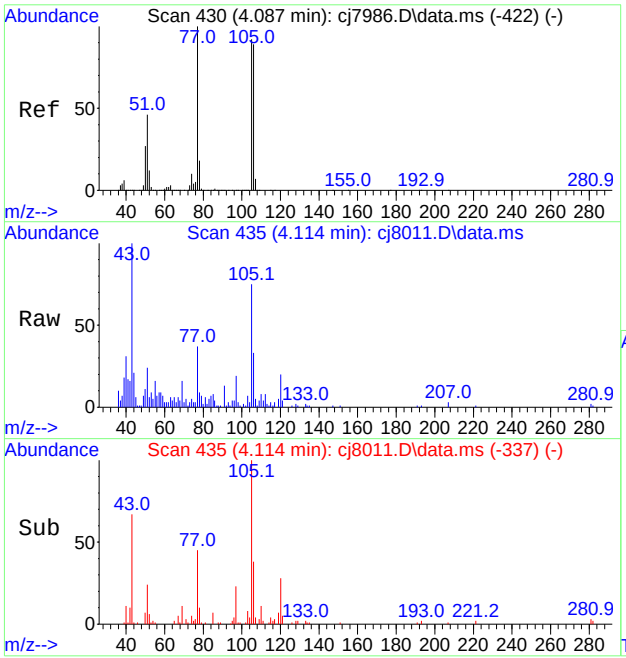


#102
Benzo[g,h,i]perylene
Concen: 52.4257 ppm
RT: 12.634 min Scan# 2028
Delta R.T. 0.032 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:276 Resp: 1448329

Ion	Ratio	Lower	Upper
276	100		
138	27.3	0.0	57.0
277	25.2	0.0	53.6

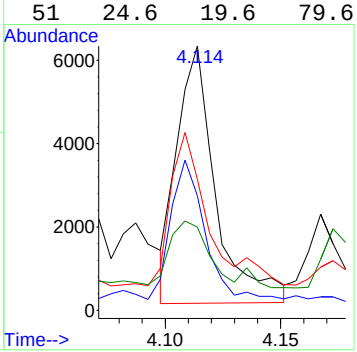




#104
Benzaldehyde
Concen: 0.6778 ppm
RT: 4.114 min Scan# 435
Delta R.T. 0.027 min
Lab File: cj8011.D
Acq: 01 Jul 2024 08:15 pm

Tgt Ion:105 Resp: 7247

Ion	Ratio	Lower	Upper
105	100		
106	42.0	66.2	126.2#
77	43.8	78.1	138.1#
51	24.6	19.6	79.6



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj8011.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.173	441	446	451	rBV	1009788	982850	7.71%	0.390%
2	4.365	479	482	492	rVB	3287178	2217184	17.38%	0.880%
3	4.536	508	514	528	rBV5	307653	940927	7.38%	0.373%
4	4.718	542	548	555	rBV	1321565	993303	7.79%	0.394%
5	5.162	620	631	643	rVB	4443095	3405240	26.70%	1.351%
6	5.842	754	758	765	rVB	2986653	1895007	14.86%	0.752%
7	6.307	840	845	848	rBV	4072064	3456803	27.10%	1.371%
8	6.334	848	850	854	rVB	1571537	1066544	8.36%	0.423%
9	6.719	911	922	927	rVB	1385036	1099617	8.62%	0.436%
10	6.911	953	958	962	rBV	1088060	956430	7.50%	0.379%
11	7.489	1061	1066	1068	rBV	3788901	3702931	29.03%	1.469%
12	7.516	1068	1071	1074	rVB	9319756	7598501	59.58%	3.015%
13	7.558	1074	1079	1083	rVB	2508454	2161639	16.95%	0.858%
14	7.703	1100	1106	1112	rBV	1376952	1582051	12.40%	0.628%
15	7.933	1145	1149	1152	rBV	906922	782619	6.14%	0.310%
16	7.960	1152	1154	1158	rVB	1089834	907004	7.11%	0.360%
17	8.002	1158	1162	1165	rBV2	604080	676770	5.31%	0.269%
18	8.034	1165	1168	1179	rVB2	1898816	2313550	18.14%	0.918%
19	8.206	1193	1200	1204	rBV	723880	692546	5.43%	0.275%
20	8.596	1267	1273	1279	rBV	12262199	12420770	97.38%	4.928%
21	8.724	1294	1297	1303	rBV2	512125	730764	5.73%	0.290%
22	8.810	1303	1313	1319	rVV	9841216	12638119	99.09%	5.014%
23	8.954	1337	1340	1346	rVV2	2843778	2478226	19.43%	0.983%
24	9.019	1346	1352	1356	rVV3	618386	988759	7.75%	0.392%
25	9.126	1362	1372	1376	rVB	2199475	2796226	21.92%	1.109%
26	9.184	1376	1383	1386	rBV	1997762	1910689	14.98%	0.758%
27	9.222	1386	1390	1398	rVV2	1351466	2025722	15.88%	0.804%
28	9.307	1403	1406	1409	rVV	618113	620747	4.87%	0.246%
29	9.334	1409	1411	1415	rVV	547521	636550	4.99%	0.253%
30	9.532	1443	1448	1451	rVV3	422334	740794	5.81%	0.294%
31	9.596	1456	1460	1463	rVV2	401609	618045	4.85%	0.245%
32	9.623	1463	1465	1469	rVV	557031	674767	5.29%	0.268%
33	9.719	1479	1483	1485	rVV	1035873	1182267	9.27%	0.469%
34	9.741	1485	1487	1490	rVV	962491	1086764	8.52%	0.431%
35	9.767	1490	1492	1494	rVV	1056783	976411	7.66%	0.387%
36	9.789	1494	1496	1500	rVV2	763005	879001	6.89%	0.349%
37	9.832	1500	1504	1507	rVV	569885	807009	6.33%	0.320%
38	9.885	1511	1514	1520	rVV3	545091	1034134	8.11%	0.410%
39	9.965	1520	1529	1533	rVV2	6940956	11845596	92.88%	4.700%
40	9.997	1533	1535	1544	rVV	6055885	6674111	52.33%	2.648%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	10.067	1544	1548	1552	rVV	1799555	1995207	15.64%	0.792%
42	10.121	1555	1558	1565	rVV3	530832	1252176	9.82%	0.497%
43	10.174	1565	1568	1572	rVV2	1132613	1452170	11.39%	0.576%
44	10.206	1572	1574	1580	rVV2	901733	1344430	10.54%	0.533%
45	10.281	1584	1588	1592	rVV4	329358	740186	5.80%	0.294%
46	10.318	1592	1595	1597	rVV	648958	817542	6.41%	0.324%
47	10.356	1597	1602	1605	rVV	1283573	1989656	15.60%	0.789%
48	10.388	1605	1608	1611	rVV2	803139	1035672	8.12%	0.411%
49	10.447	1611	1619	1621	rVV2	1070947	1965596	15.41%	0.780%
50	10.474	1621	1624	1626	rVV3	996345	1330031	10.43%	0.528%
51	10.490	1626	1627	1632	rVV3	1040803	1610465	12.63%	0.639%
52	10.532	1632	1635	1645	rVV4	808246	2454497	19.24%	0.974%
53	10.602	1645	1648	1651	rVV	446670	733471	5.75%	0.291%
54	10.655	1651	1658	1660	rVV2	585900	1279250	10.03%	0.508%
55	10.682	1660	1663	1669	rVV3	808297	1745367	13.68%	0.692%
56	10.736	1669	1673	1676	rVV4	558309	1183253	9.28%	0.469%
57	10.762	1676	1678	1683	rVV3	588441	1152095	9.03%	0.457%
58	10.800	1683	1685	1687	rVV	557713	660956	5.18%	0.262%
59	10.827	1687	1690	1695	rVV	1034791	1841713	14.44%	0.731%
60	10.875	1695	1699	1702	rVV4	627148	1305334	10.23%	0.518%
61	10.923	1702	1708	1711	rVV3	1101290	2181739	17.11%	0.866%
62	10.966	1711	1716	1724	rVV	6244457	12754341	100.00%	5.060%
63	11.046	1724	1731	1734	rVV2	1917298	3300919	25.88%	1.310%
64	11.083	1734	1738	1742	rVV2	1432471	2553126	20.02%	1.013%
65	11.137	1742	1748	1754	rVV6	1324499	4388487	34.41%	1.741%
66	11.190	1754	1758	1763	rVV	4358078	6321398	49.56%	2.508%
67	11.244	1763	1768	1772	rVV	6330147	8042722	63.06%	3.191%
68	11.287	1772	1776	1779	rVV	4029621	5487077	43.02%	2.177%
69	11.308	1779	1780	1787	rVV2	2594810	3606685	28.28%	1.431%
70	11.367	1787	1791	1794	rVV3	979492	2038014	15.98%	0.809%
71	11.393	1794	1796	1799	rVV2	893952	1385184	10.86%	0.550%
72	11.420	1799	1801	1803	rVV	1097187	1306904	10.25%	0.518%
73	11.458	1803	1808	1812	rVV3	1228767	3009620	23.60%	1.194%
74	11.511	1814	1818	1829	rVV4	1402740	4509720	35.36%	1.789%
75	11.602	1829	1835	1839	rVV2	803733	2363641	18.53%	0.938%
76	11.682	1839	1850	1856	rVV4	1601519	5122379	40.16%	2.032%
77	11.752	1856	1863	1868	rVV6	1055074	3245175	25.44%	1.287%
78	11.795	1868	1871	1876	rVV2	795863	1766271	13.85%	0.701%
79	11.848	1876	1881	1889	rVV8	721869	2617327	20.52%	1.038%
80	11.934	1890	1897	1902	rVV6	680892	2255143	17.68%	0.895%
81	12.003	1902	1910	1912	rVV4	657271	1801767	14.13%	0.715%
82	12.046	1912	1918	1921	rVV4	744063	1907271	14.95%	0.757%
83	12.078	1921	1924	1928	rVV3	721952	1456055	11.42%	0.578%
84	12.121	1928	1932	1936	rVV3	751433	1637053	12.84%	0.649%
85	12.217	1936	1950	1960	rVV4	1312685	5718477	44.84%	2.269%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.287	1960	1963	1965	rVV	571127	864434	6.78%	0.343%
87	12.335	1965	1972	1977	rVV	3373780	6028284	47.26%	2.392%
88	12.383	1977	1981	1985	rVV	569840	1175550	9.22%	0.466%
89	12.442	1985	1992	1996	rVV3	978369	2259543	17.72%	0.896%
90	12.485	1996	2000	2005	rVV2	1021030	2055210	16.11%	0.815%
91	12.543	2005	2011	2018	rVV5	601269	2003593	15.71%	0.795%
92	12.634	2018	2028	2038	rVV	2762634	6234220	48.88%	2.473%
93	12.715	2038	2043	2051	rVV9	570986	1905438	14.94%	0.756%
94	12.795	2051	2058	2071	rVV	1017097	2669862	20.93%	1.059%
95	13.030	2092	2102	2108	rVV9	274878	838163	6.57%	0.333%
96	13.153	2118	2125	2135	rBV3	349814	728560	5.71%	0.289%
97	13.415	2168	2174	2189	rVB7	168577	620702	4.87%	0.246%
98	14.127	2292	2307	2323	rVV	655814	2117648	16.60%	0.840%
99	14.266	2323	2333	2340	rVV	516929	1717022	13.46%	0.681%
100	14.309	2340	2341	2362	rVB3	294039	975073	7.65%	0.387%

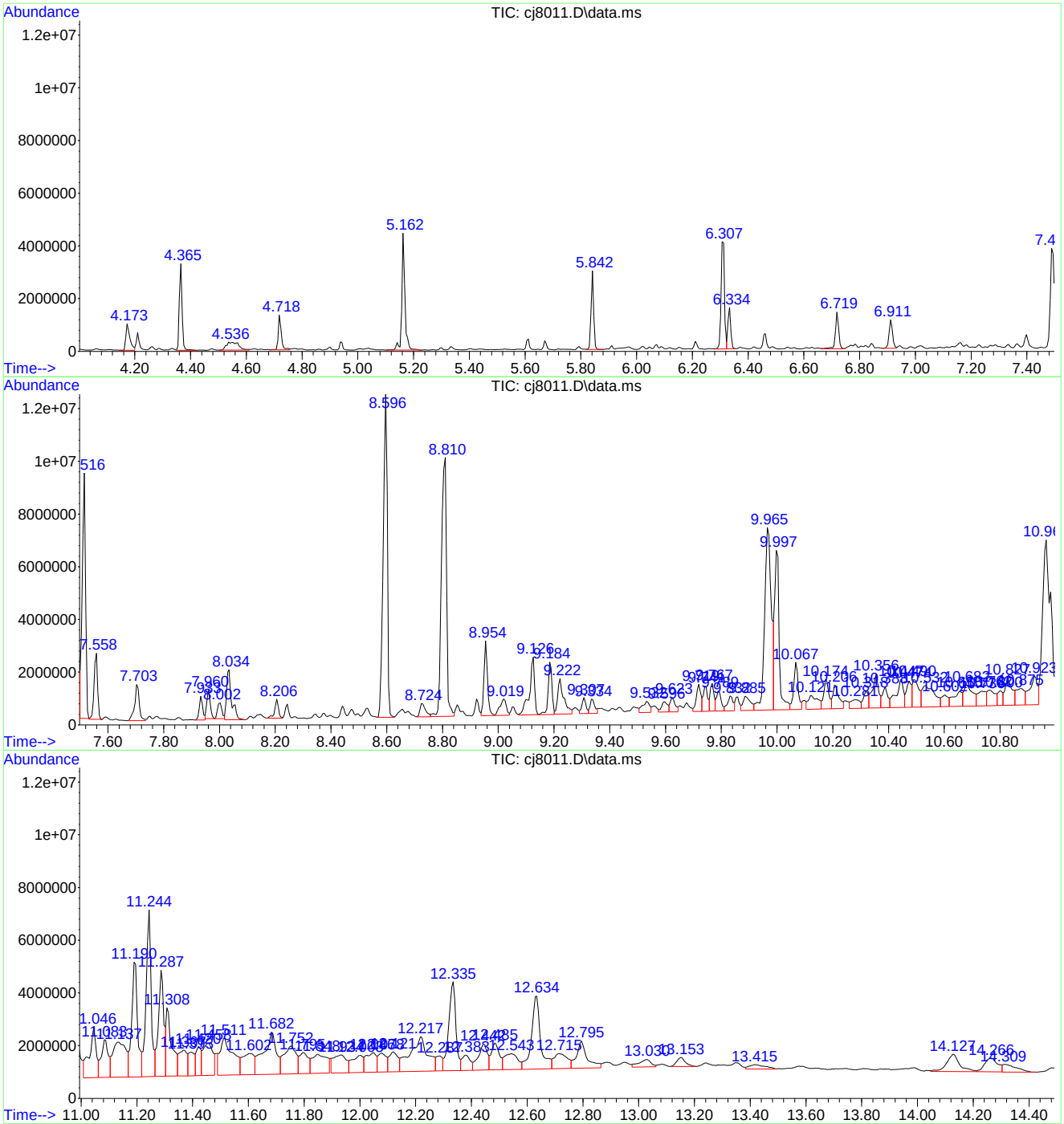
Sum of corrected areas: 252055851

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

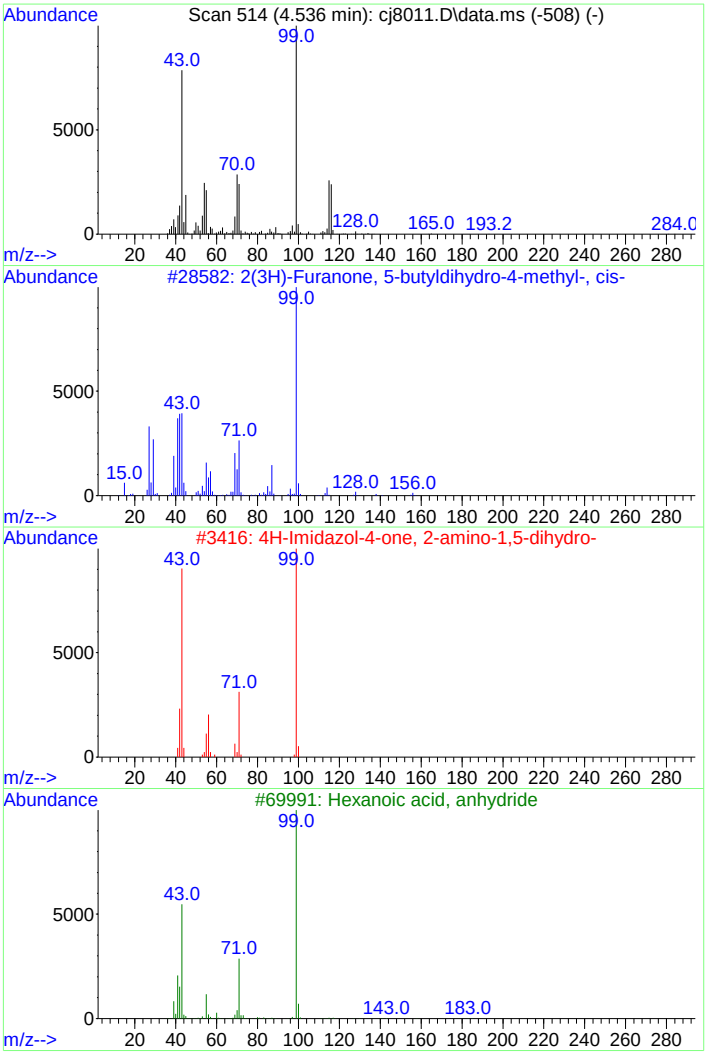
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

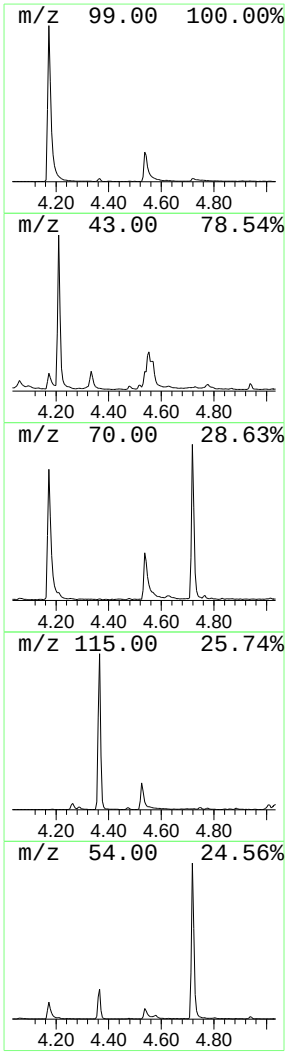
****

Peak Number 1 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.536	16.98 ppm	940927	1,4-Dichlorobenzene-d4a	4.365

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(3H)-Furanone, 5-butyldihydro-4...	156	C9H16O2	055013-32-6	43
2	4H-Imidazol-4-one, 2-amino-1,5-d...	99	C3H5N3O	000503-86-6	43
3	Hexanoic acid, anhydride	214	C12H22O3	002051-49-2	37
4	Hexanoic acid, anhydride	214	C12H22O3	002051-49-2	37
5	2,5-Pyrrolidinedione	99	C4H5NO2	000123-56-8	35





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

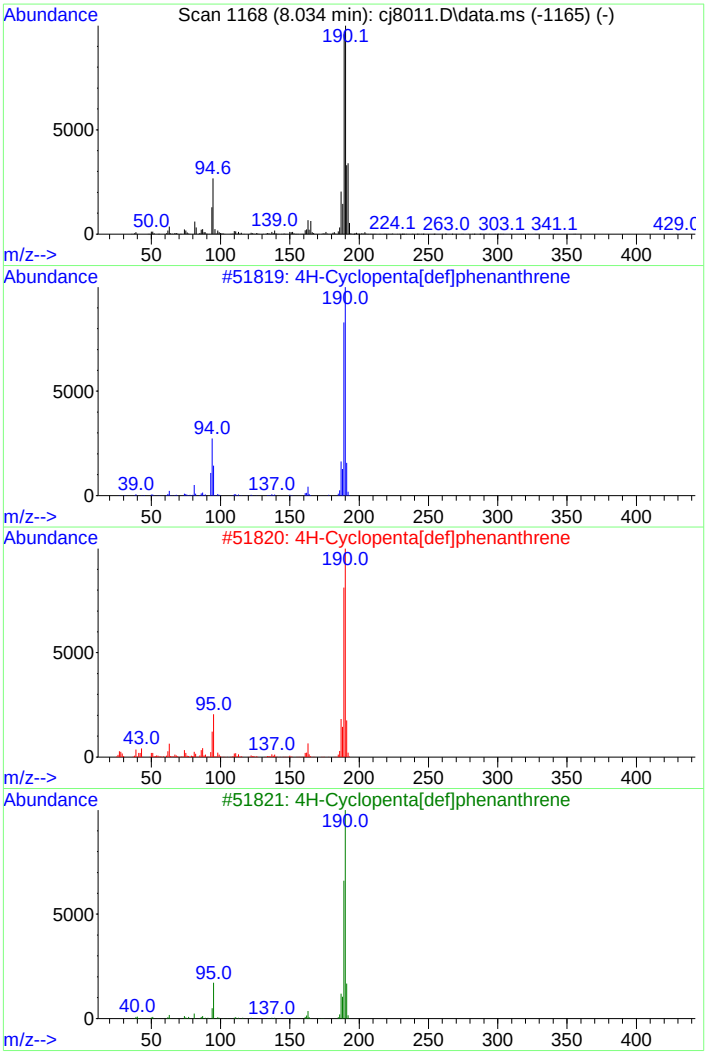
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

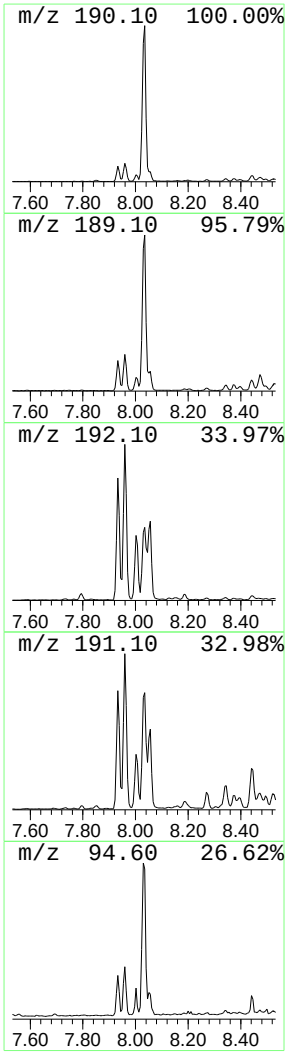
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 2 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.034	24.99 ppm	2313550	Phenanthrene-d10b	7.489

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	62
4	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	49
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	47





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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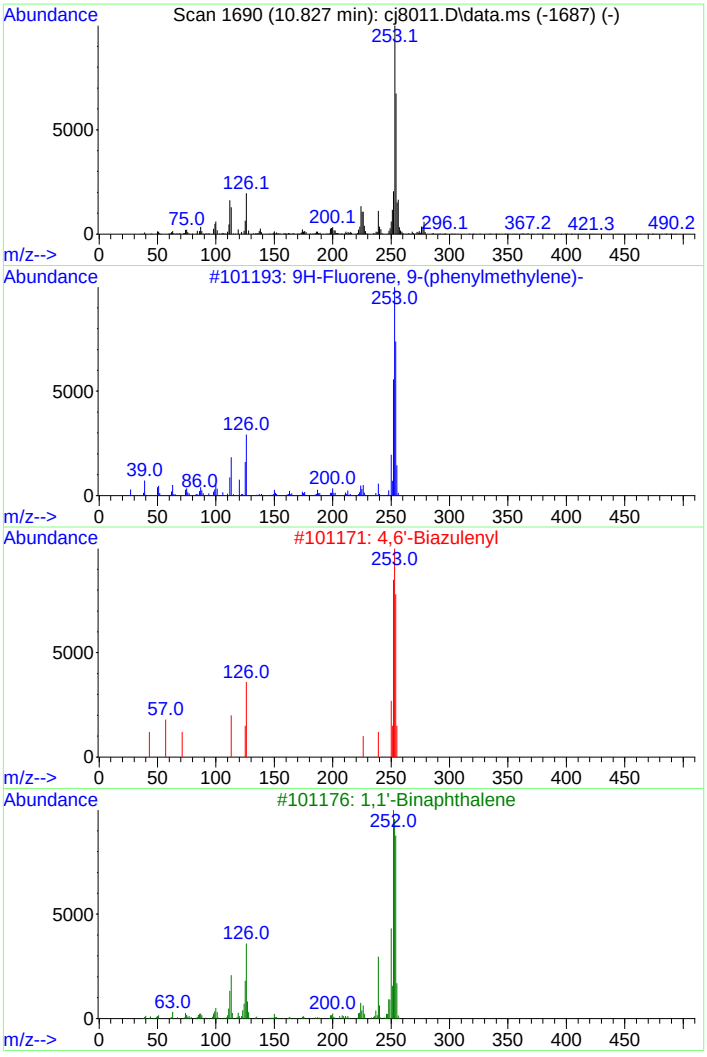
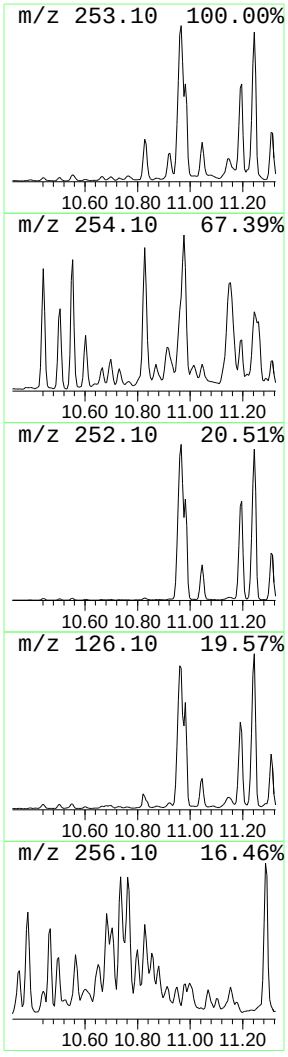
Peak Number 3 Unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.826	13.43 ppm	1841710	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	74
2	4,6'-Biazulenyl	254	C20H14	094154-49-1	68
3	1,1'-Binaphthalene	254	C20H14	000604-53-5	64
4	3H-Pyrrolo[3,2-f]quinoline, 5-me...	254	C16H18N2O	1000350-44-1	58
5	1,1'-Binaphthalene	254	C20H14	000604-53-5	55





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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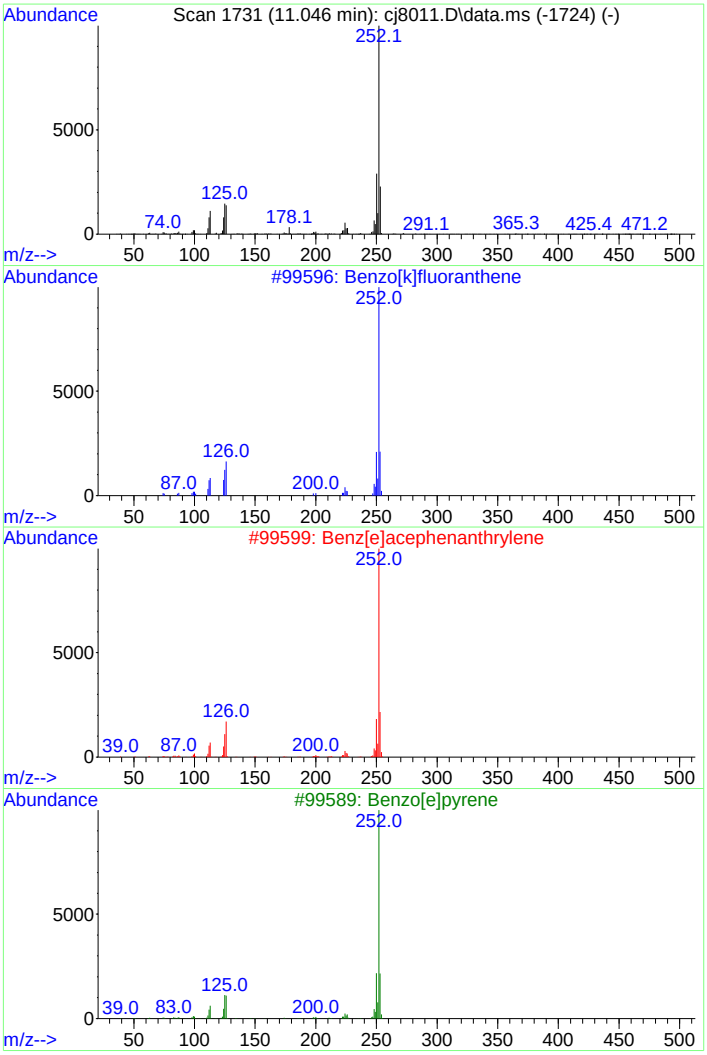
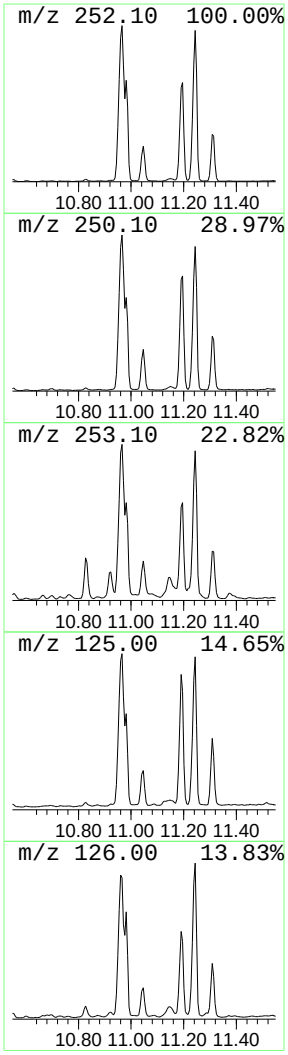
Peak Number 4 Unknown PAH substance Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.046	24.06 ppm	3300920	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
3	Benzo[e]pyrene	252	C20H12	000192-97-2	94
4	Perylene	252	C20H12	000198-55-0	93
5	Perylene	252	C20H12	000198-55-0	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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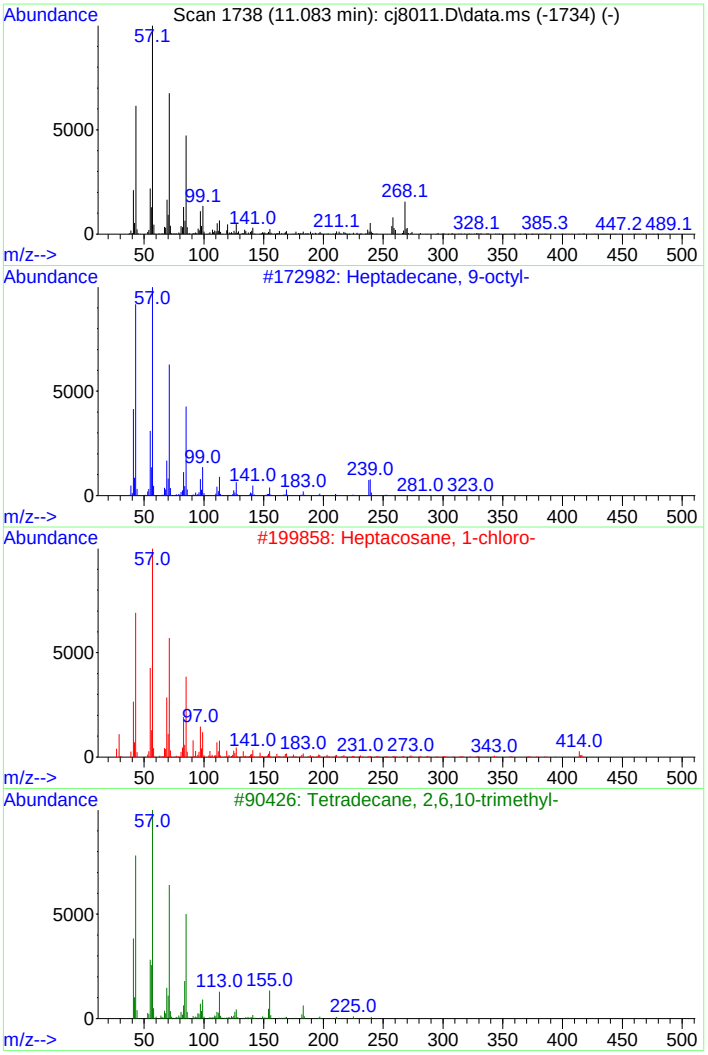
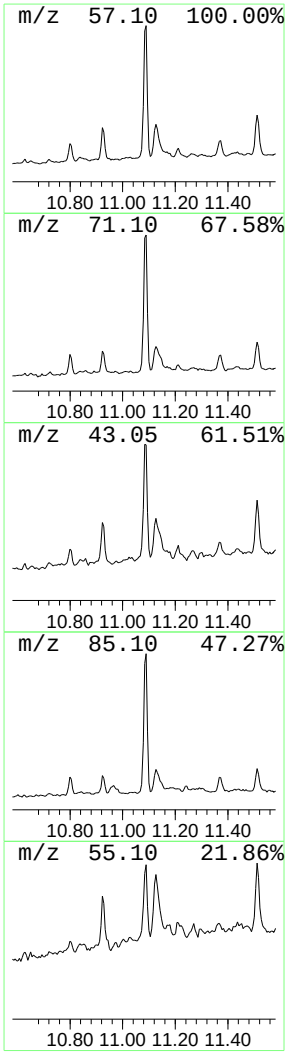
Peak Number 5 Alkane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.083	18.61 ppm	2553130	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	90
2	Heptacosane, 1-chloro-	414	C27H55Cl	062016-79-9	83
3	Tetradecane, 2,6,10-trimethyl-	240	C17H36	014905-56-7	83
4	Heptacosane	380	C27H56	000593-49-7	81
5	Octacosane	394	C28H58	000630-02-4	74





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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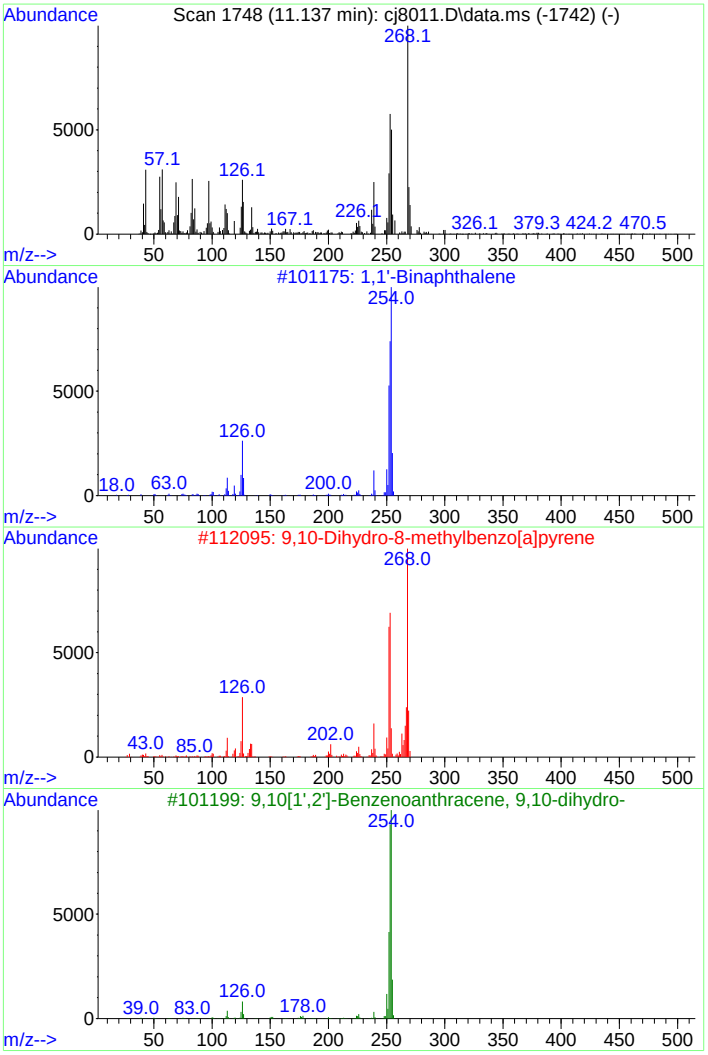
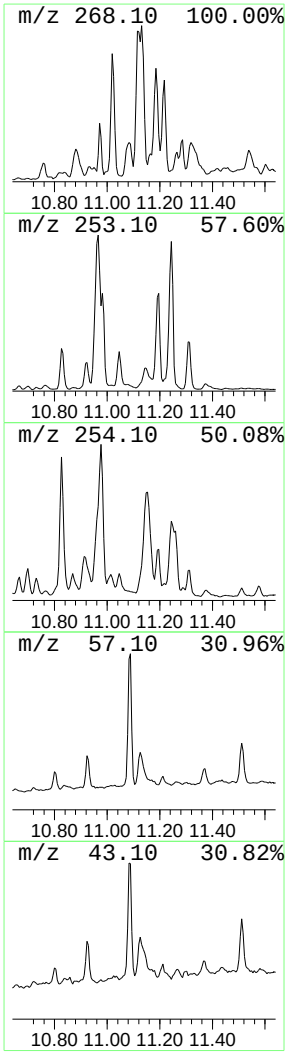
Peak Number 6 Unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.137	31.99 ppm	4388490	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Binaphthalene	254	C20H14	000604-53-5	83
2	9,10-Dihydro-8-methylbenzo[a]pyrene	268	C21H16	089524-72-1	83
3	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	81
4	(+)-1-Methylcholanthrene	268	C21H16	1000126-56-0	70
5	Pyrrolo[3,2-f]quinolin-9-one, 1,...	268	C17H20N2O	1000302-73-3	64





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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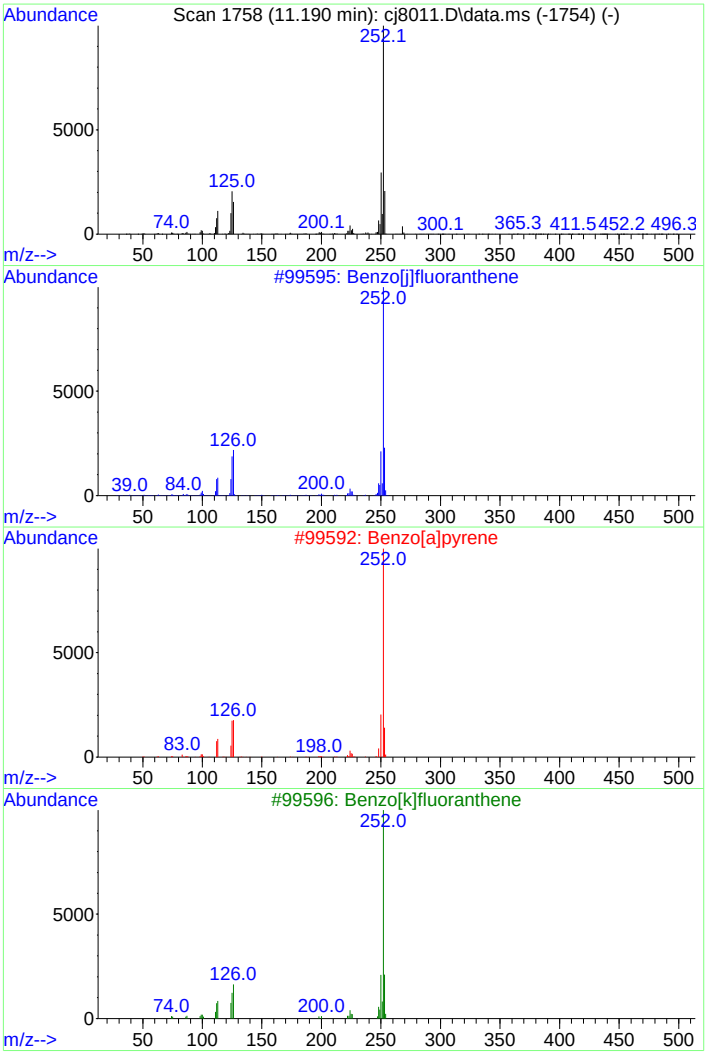
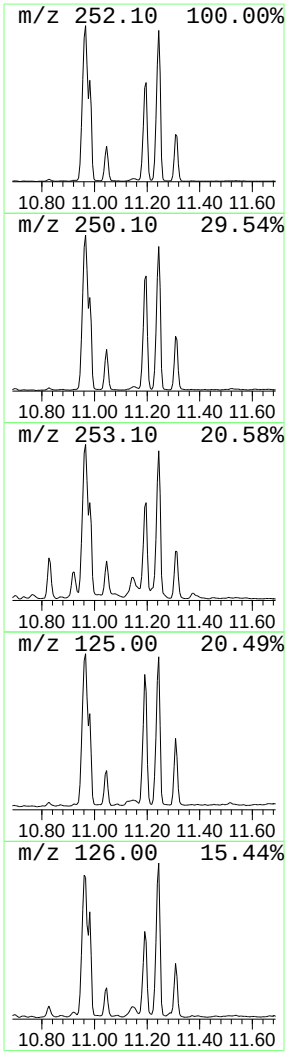
Peak Number 7 Unknown PAH substance Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.190	46.08 ppm	6321400	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[j]fluoranthene	252	C20H12	000205-82-3	96
2	Benzo[a]pyrene	252	C20H12	000050-32-8	95
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
4	Perylene	252	C20H12	000198-55-0	93
5	Benzo[e]pyrene	252	C20H12	000192-97-2	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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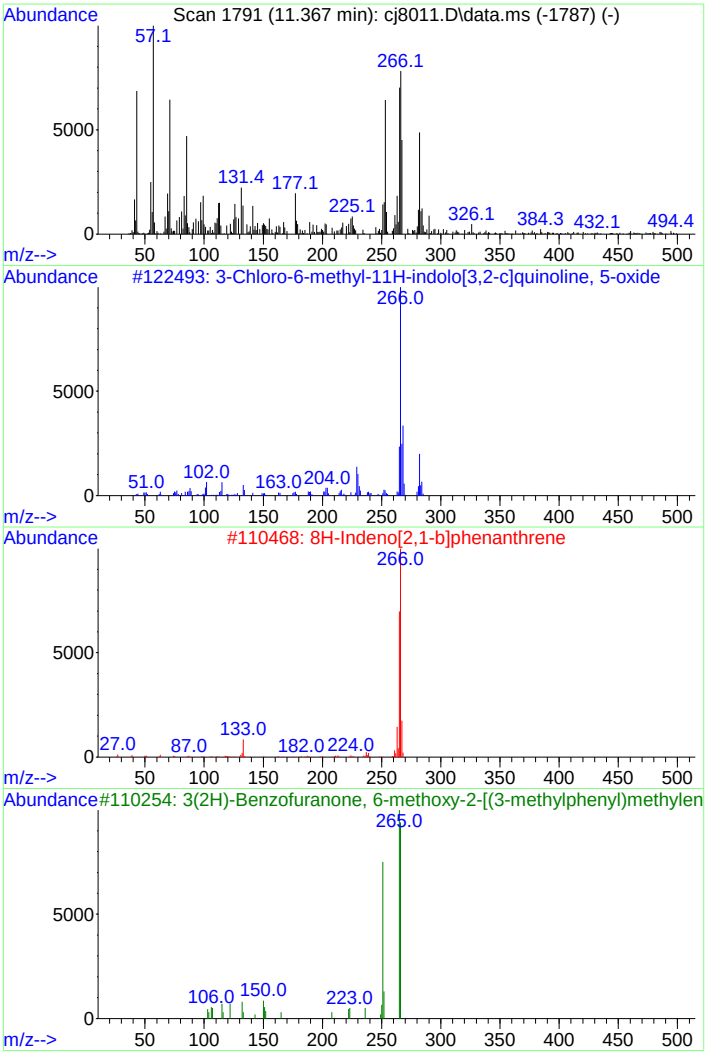
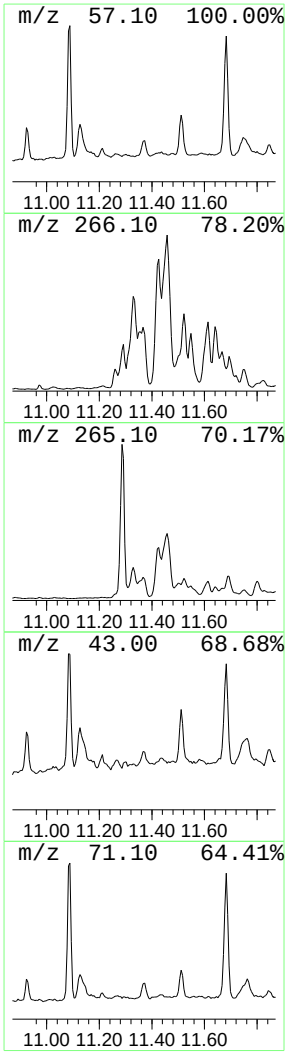
Peak Number 8 Unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.367	14.86 ppm	2038010	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-methyl-11H-indolo[3,2...	282	C16H11ClN2O	1000212-76-7	43
2	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	35
3	3(2H)-Benzofuranone, 6-methoxy-2...	266	C17H14O3	077764-86-4	30
4	1-Benzothieno[3,2-f]quinazoline-...	266	C14H10N4S	065642-92-4	27
5	3-(3-[Trifluoromethyl]phenoxy)be...	266	C14H9F3O2	078725-46-9	27





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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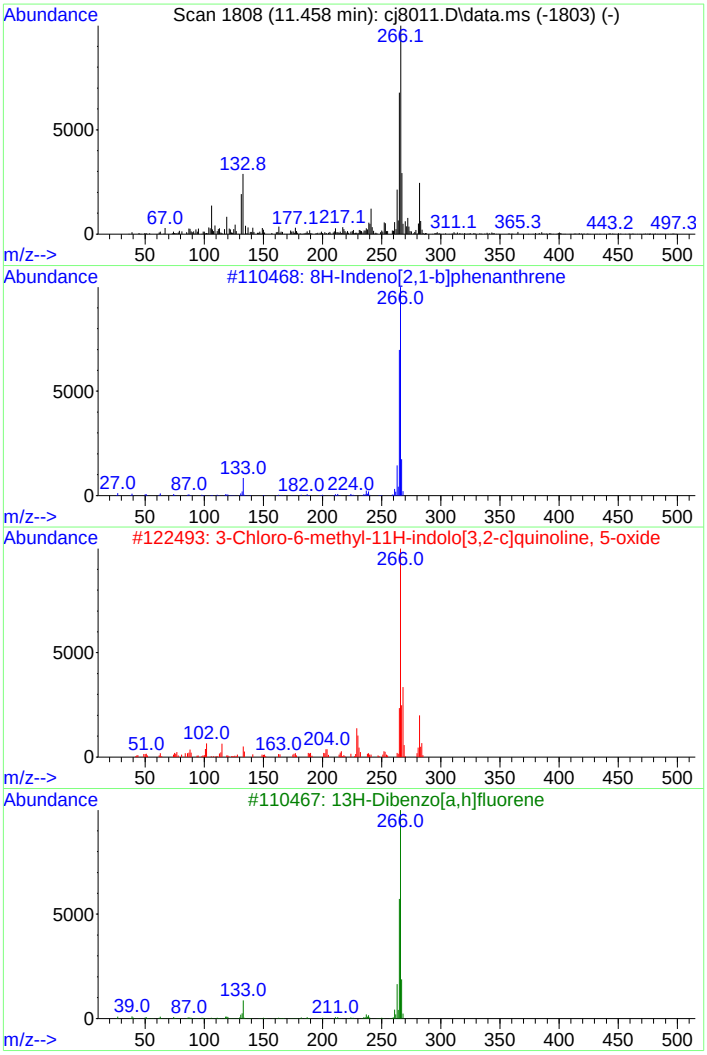
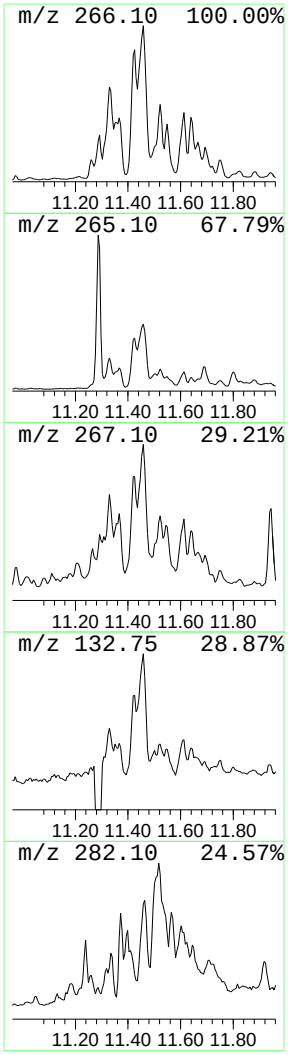
Peak Number 9 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.458	21.94 ppm	3009620	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	70
2	3-Chloro-6-methyl-11H-indolo[3,2...	282	C16H11ClN2O	1000212-76-7	60
3	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	58
4	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	55
5	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	55





Library Search Compound Report

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Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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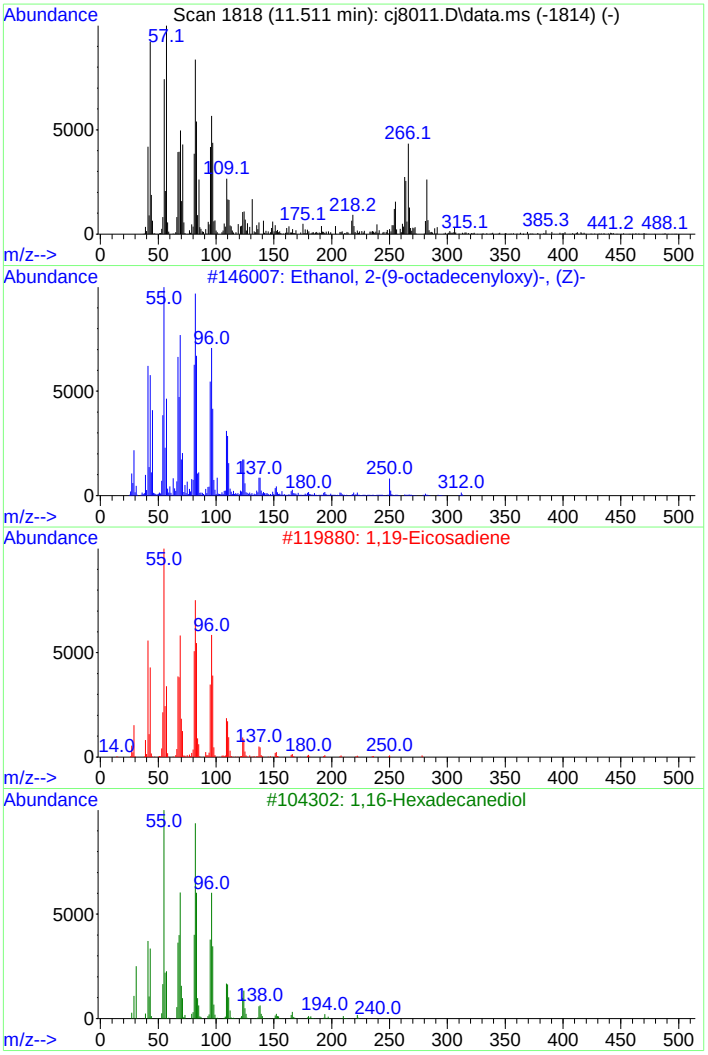
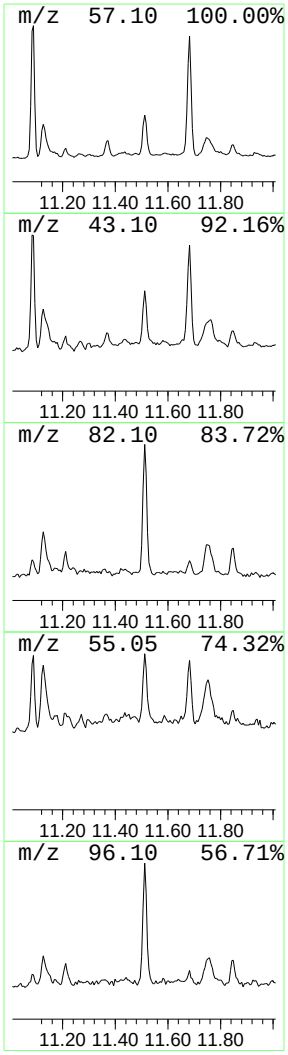
Peak Number 10 Unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.511	32.88 ppm	4509720	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(9-octadecenyloxy)-, ...	312	C20H40O2	005353-25-3	60
2	1,19-Eicosadiene	278	C20H38	014811-95-1	58
3	1,16-Hexadecanediol	258	C16H34O2	007735-42-4	55
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	53
5	Octadecanal	268	C18H36O	000638-66-4	49





Library Search Compound Report

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Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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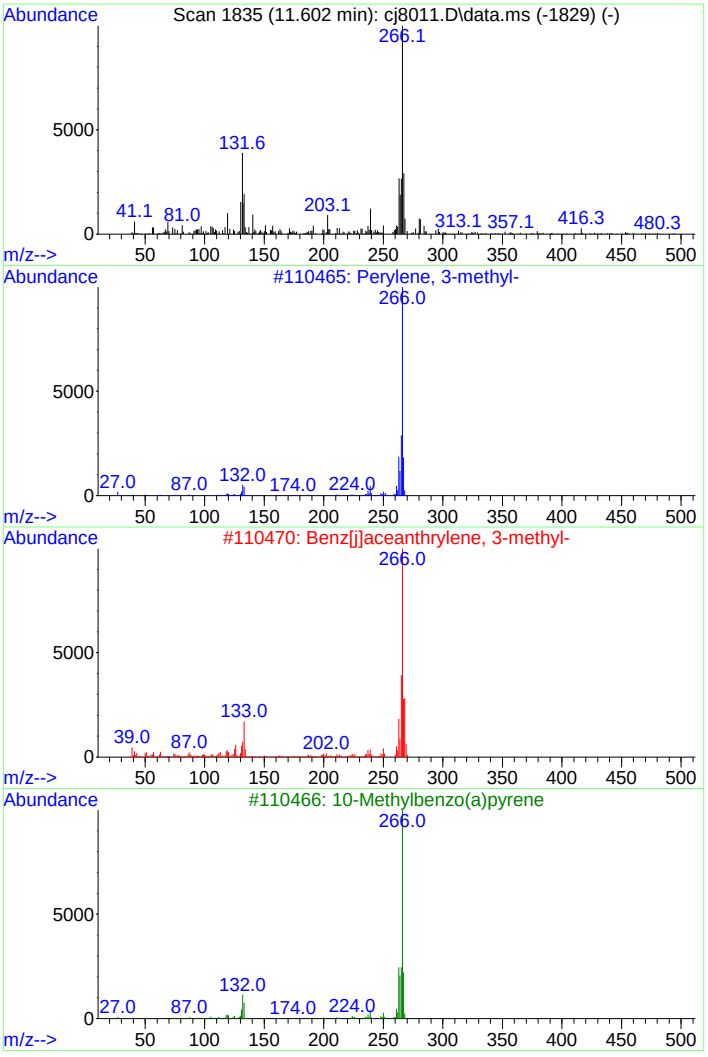
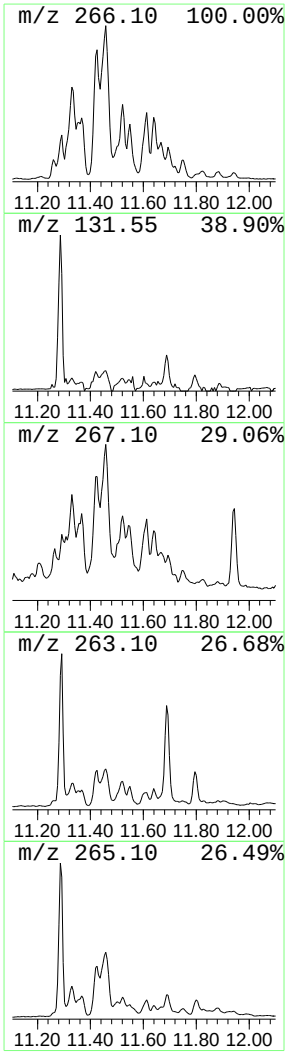
Peak Number 11 Unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.602	17.23 ppm	2363640	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene, 3-methyl-	266	C21H14	024471-47-4	58
2	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	55
3	10-Methylbenzo(a)pyrene	266	C21H14	063104-32-5	53
4	Thiazole, 4-phenyl-2-(4-tolylami...	266	C16H14N2S	016098-04-7	47
5	Benzoic acid, 4-(4,5-dihydro-3-p...	266	C16H14N2O2	026192-74-5	47





Library Search Compound Report

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Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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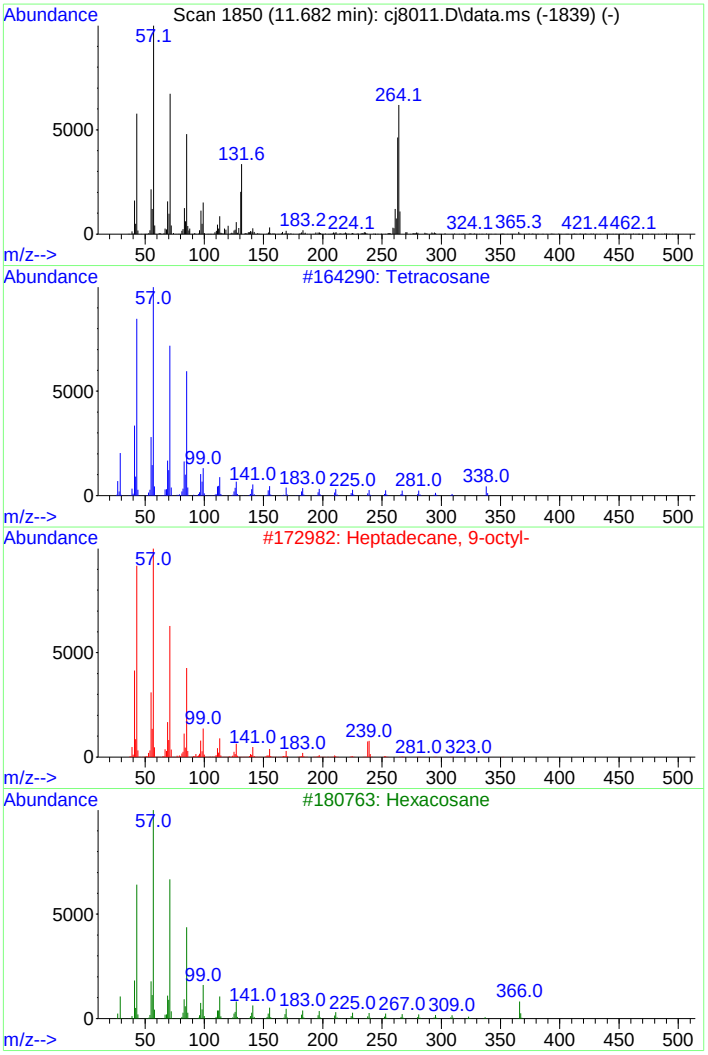
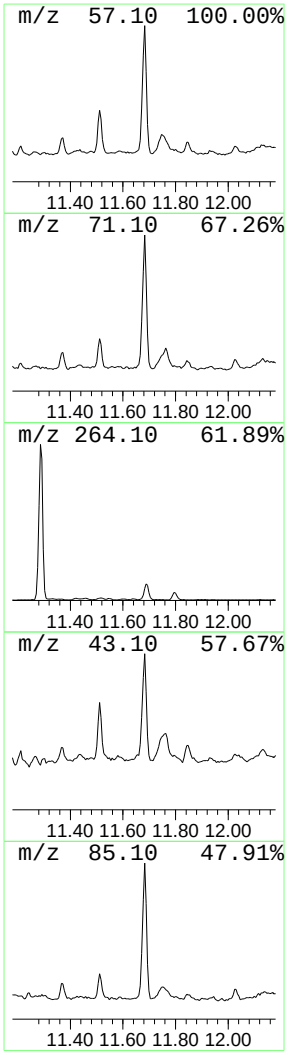
Peak Number 12 Alkane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.682	37.34 ppm	5122380	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	86
2	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	81
3	Hexacosane	366	C26H54	000630-01-3	72
4	Docosane, 11-butyl-	366	C26H54	013475-76-8	55
5	Octacosane	394	C28H58	000630-02-4	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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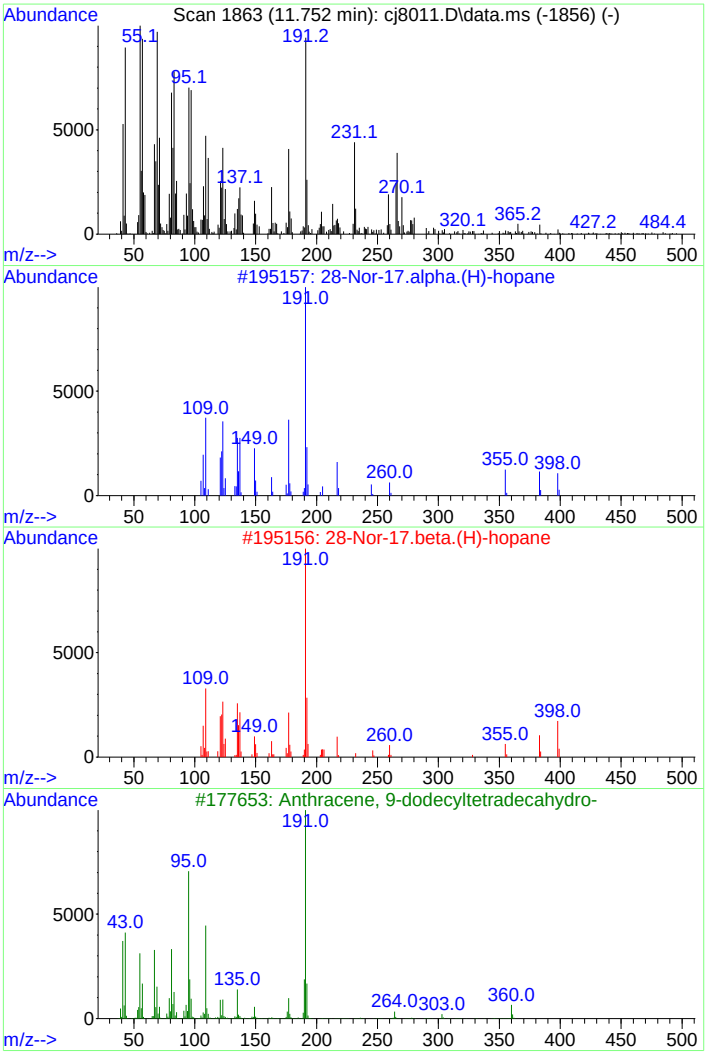
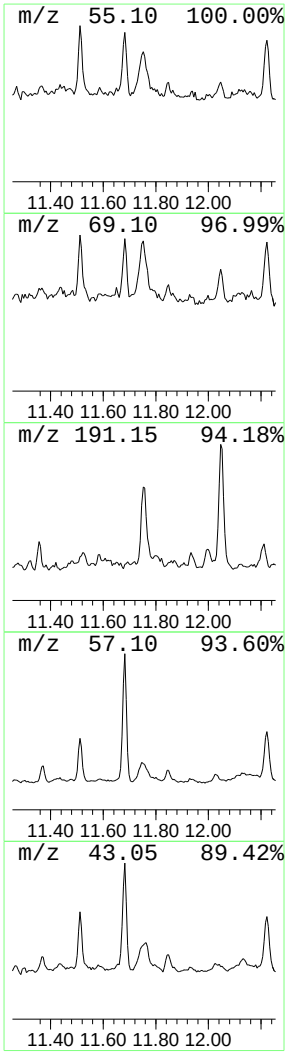
Peak Number 13 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.752	23.66 ppm	3245180	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	28-Nor-17.alpha.(H)-hopane	398	C29H50	053584-60-4	83
2	28-Nor-17.beta.(H)-hopane	398	C29H50	036728-72-0	38
3	Anthracene, 9-dodecyltetradecahy...	360	C26H48	055401-75-7	35
4	Anthracene, 9-butyltetradecahydro-	248	C18H32	055133-89-6	35
5	Anthracene, 9-dodecyltetradecahy...	360	C26H48	055401-75-7	35





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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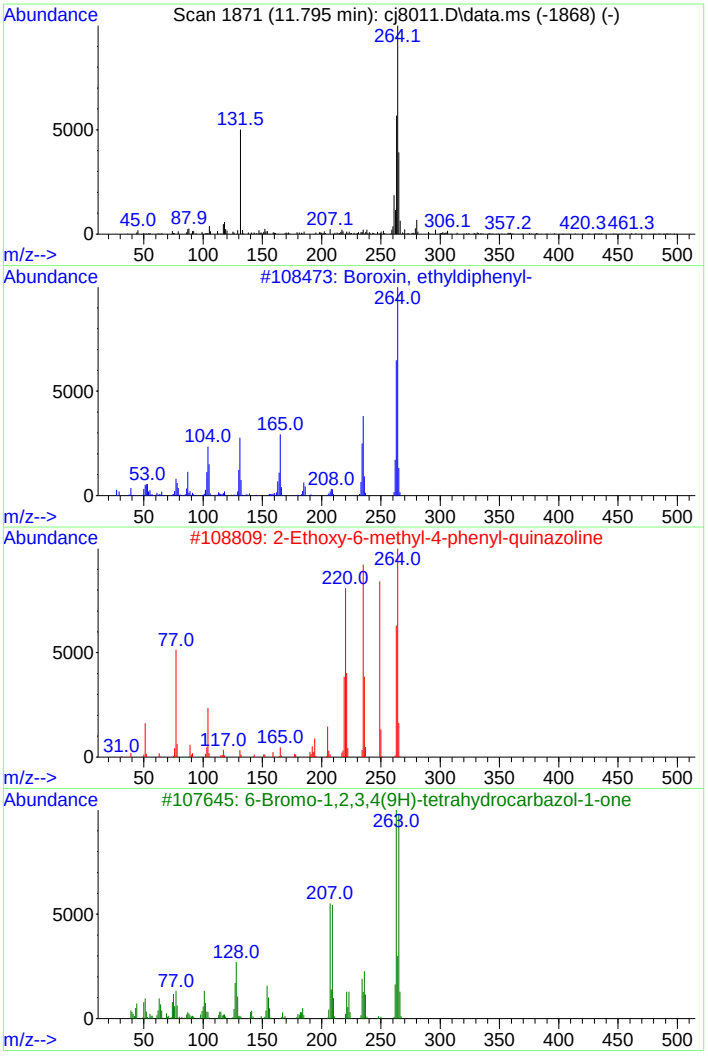
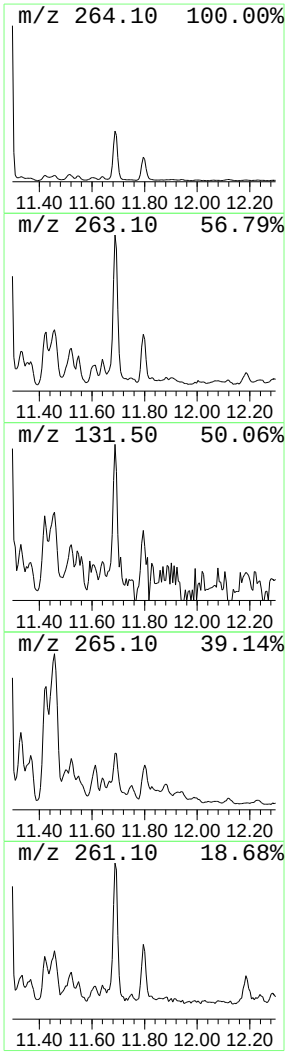
Peak Number 14 Unknown Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.795	12.88 ppm	1766270	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Boroxin, ethyldiphenyl-	264	C14H15B3O3	1000151-82-0	47
2	2-Ethoxy-6-methyl-4-phenyl-quina...	264	C17H16N2O	1000318-42-5	46
3	6-Bromo-1,2,3,4(9H)-tetrahydroca...	263	C12H10BrNO	1000311-36-9	35
4	Bicyclo[2.2.1]hepta-2,5-diene, 1...	296	C7H2Cl6	003389-71-7	25
5	7-Carbomethoxy-5,8-dimethoxy-1-t...	264	C14H16O5	122136-07-6	25





Library Search Compound Report

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Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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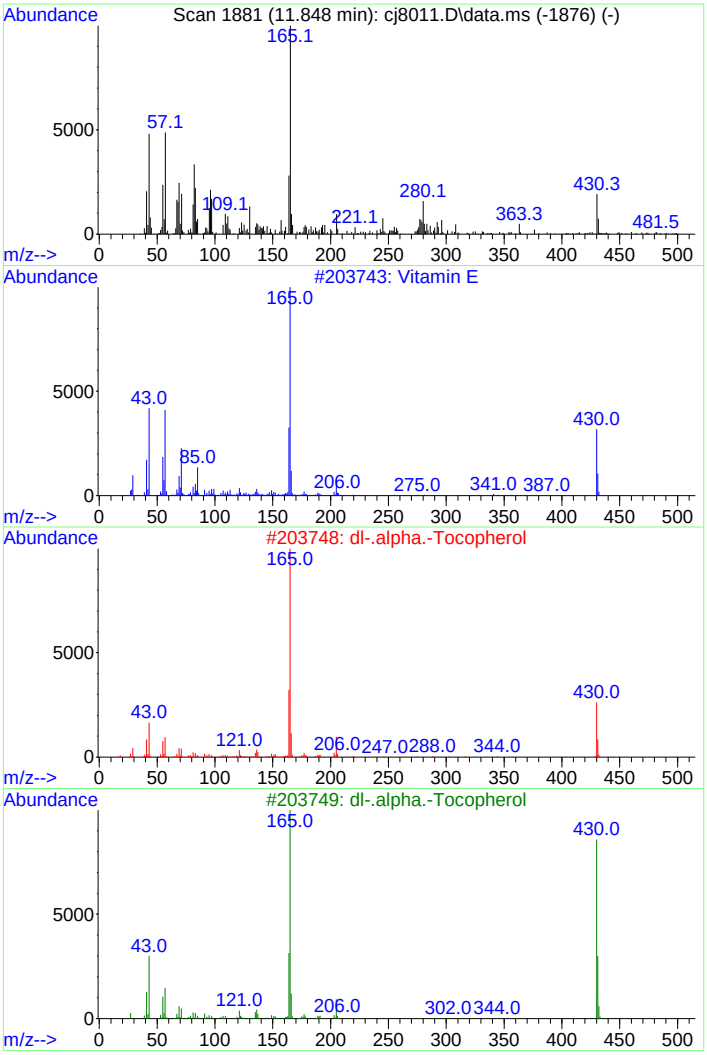
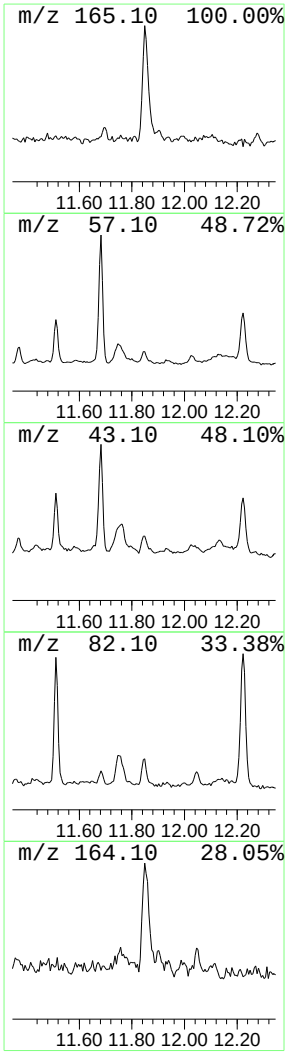
Peak Number 15 Vitamin E Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.848	19.08 ppm	2617330	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Vitamin E	430	C29H50O2	000059-02-9	70
2	dl-.alpha.-Tocopherol	430	C29H50O2	010191-41-0	70
3	dl-.alpha.-Tocopherol	430	C29H50O2	010191-41-0	58
4	1H-Purin-2-amine, 6-methoxy-	165	C6H7N5O	020535-83-5	49
5	Vitamin E	430	C29H50O2	000059-02-9	49





Library Search Compound Report

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Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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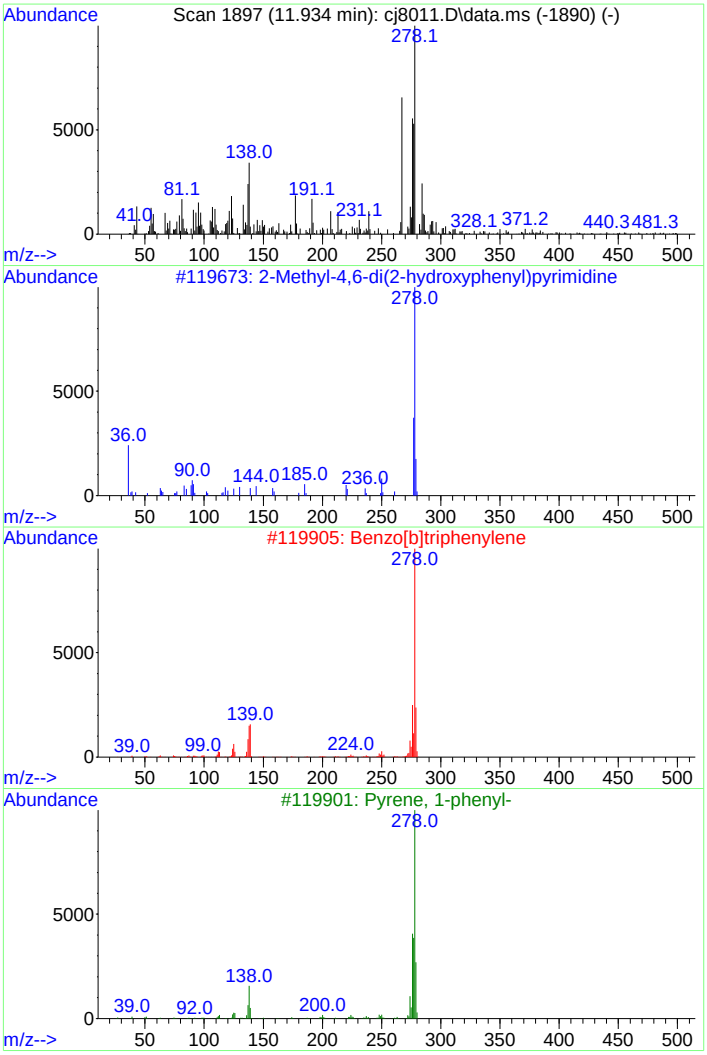
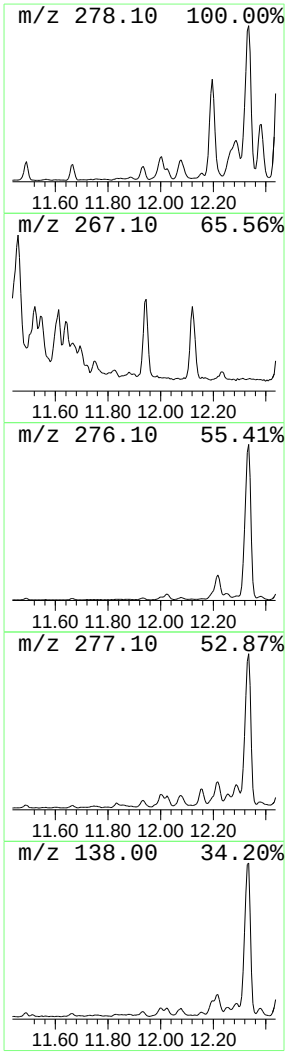
Peak Number 16 Unknown PAH substance Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.934	16.44 ppm	2255140	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methyl-4,6-di(2-hydroxyphenyl)...	278	C17H14N2O2	1000070-55-8	27
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	27
3	Pyrene, 1-phenyl-	278	C22H14	005101-27-9	25
4	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	20
5	Fenthion	278	C10H15O3PS2	000055-38-9	14





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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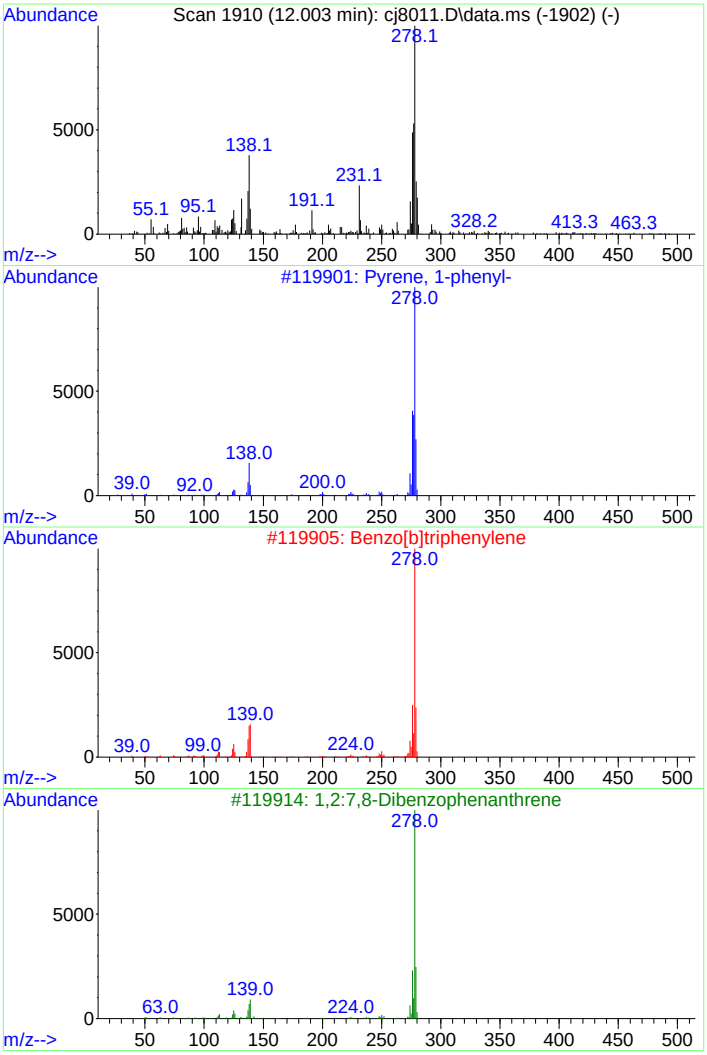
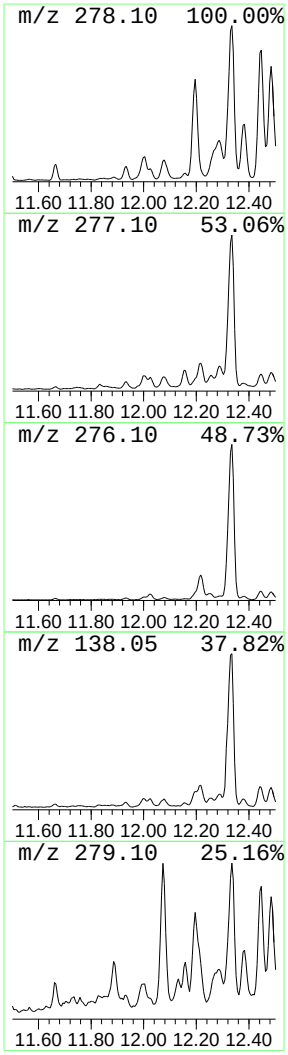
Peak Number 17 Unknown PAH substance Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.003	13.13 ppm	1801770	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-phenyl-	278	C22H14	005101-27-9	70
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	66
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	46
4	8-Methoxy-quinoline-5-sulfonic a...	278	C13H14N2O3S	1000274-64-1	46
5	1,4-Pentadien-3-one, 1-(1,3-benz...	278	C18H14O3	1000319-47-3	46





Library Search Compound Report

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Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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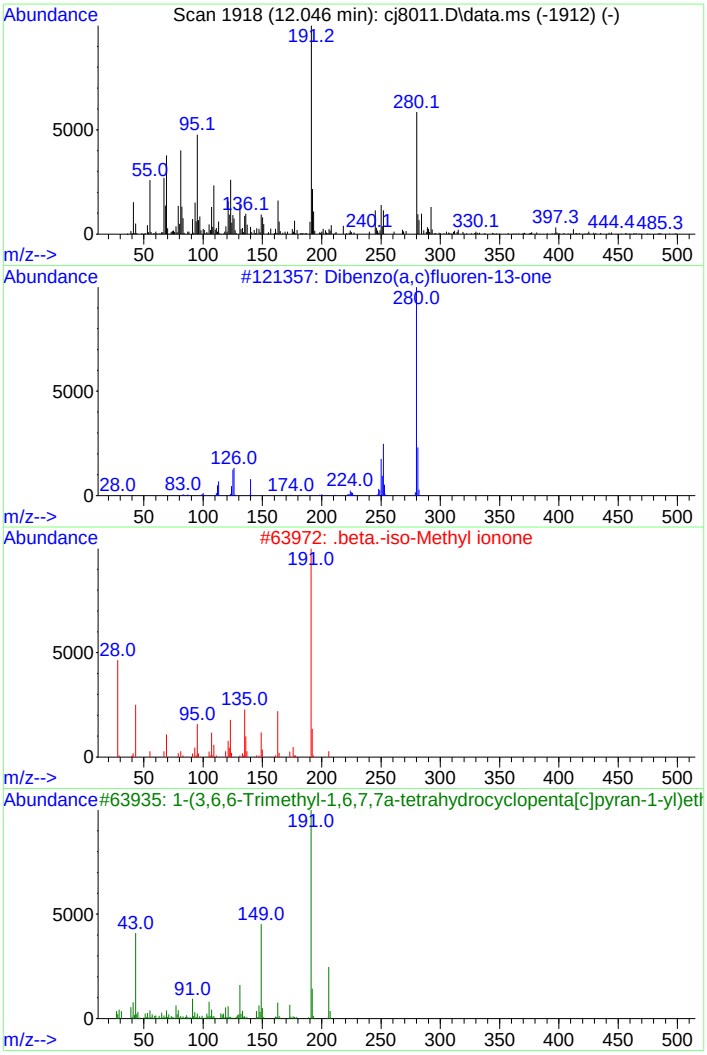
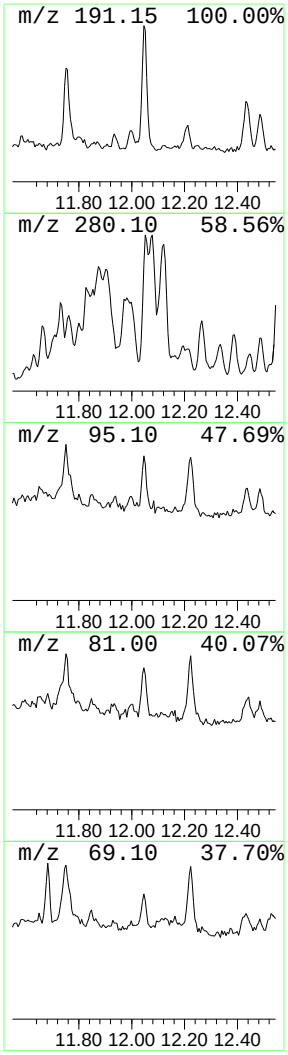
Peak Number 18 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.046	13.90 ppm	1907270	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo(a,c)fluoren-13-one	280	C21H12O	063041-47-4	35
2	.beta.-iso-Methyl ionone	206	C14H22O	1000285-40-2	27
3	1-(3,6,6-Trimethyl-1,6,7,7a-tetr...	206	C13H18O2	1000194-97-2	27
4	Benzene, 1,4-bis(1-methoxycarbon...	250	C14H18O4	1000162-72-7	27
5	9H-Fluorene-9-carbonitrile	191	C14H9N	001529-40-4	27





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Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
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Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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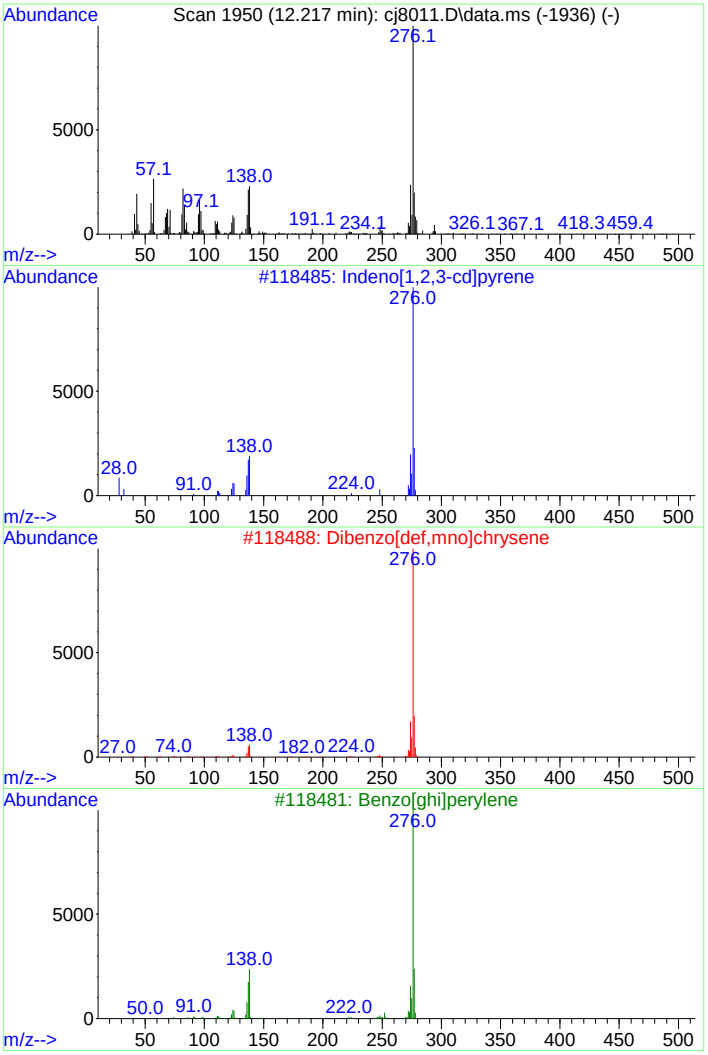
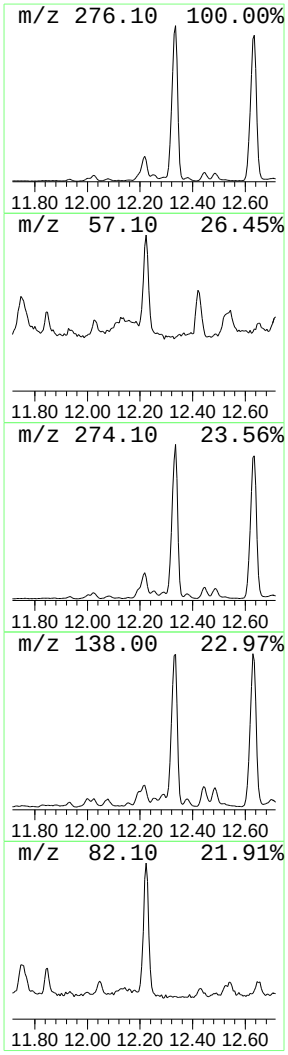
Peak Number 19 Unknown PAH substance Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.217	41.69 ppm	5718480	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	98
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	94
3	Benzo[ghi]perylene	276	C22H12	000191-24-2	94
4	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	94
5	Benzo[ghi]perylene	276	C22H12	000191-24-2	81





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

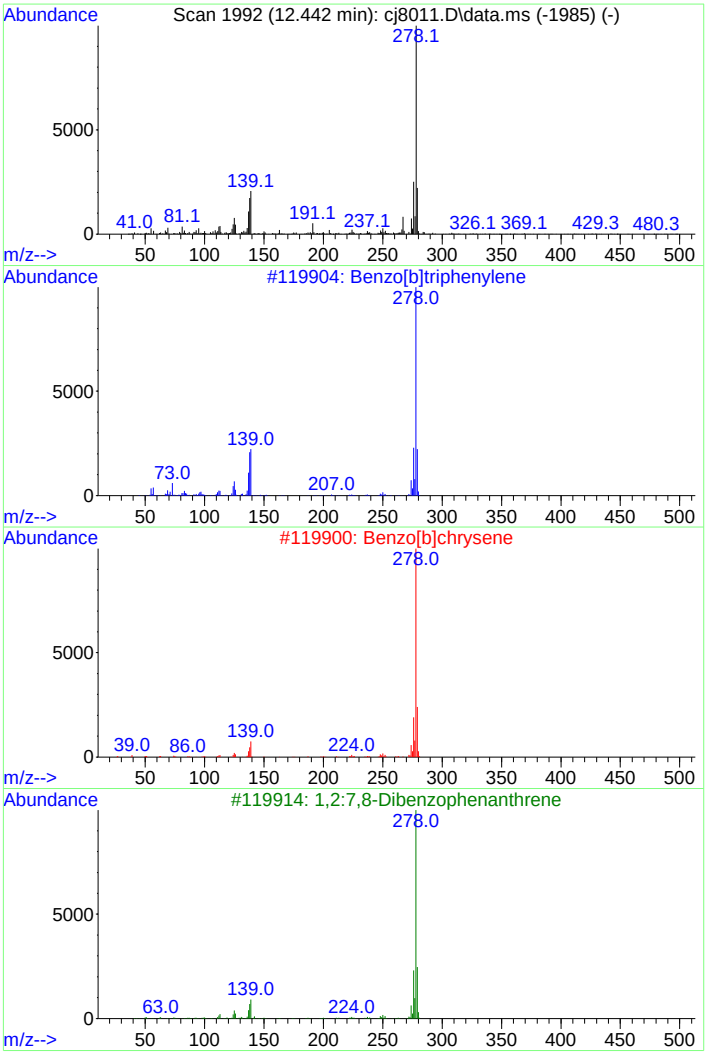
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

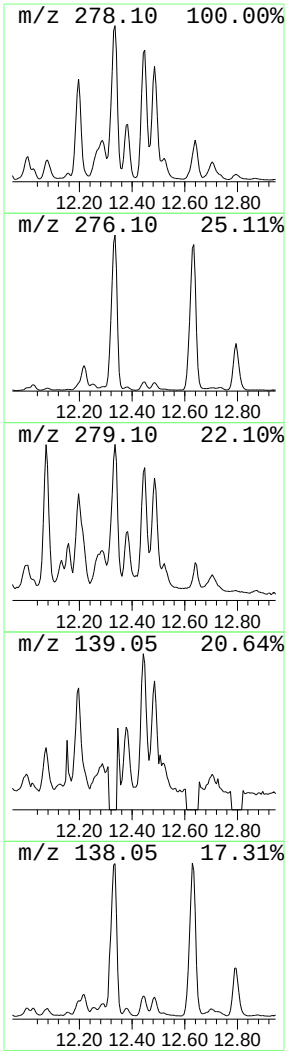
****

Peak Number 20 Unknown PAH substance Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.442	16.47 ppm	2259540	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
2	Benzo[b]chrysene	278	C22H14	000214-17-5	94
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	93
4	Pentacene	278	C22H14	000135-48-8	93
5	Benzo[b]triphenylene	278	C22H14	000215-58-7	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

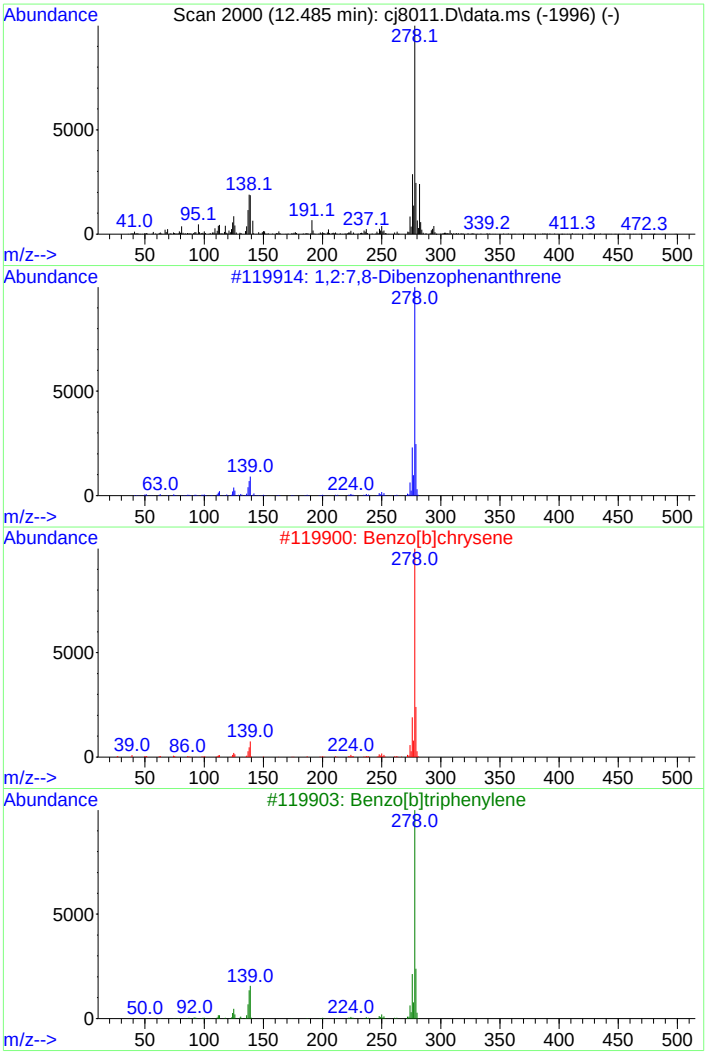
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

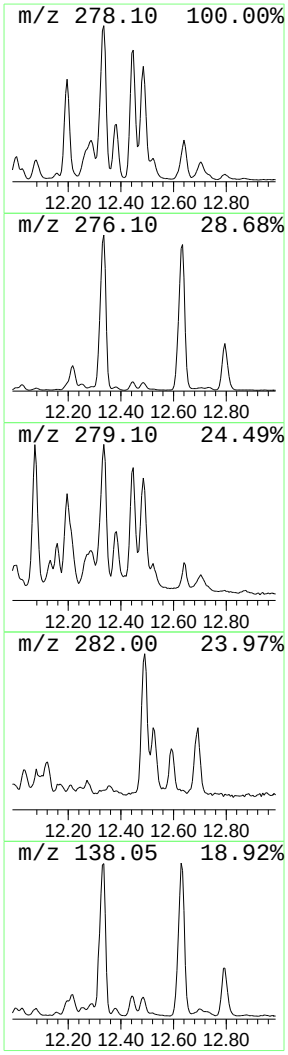
****

Peak Number 21 Unknown PAH substance Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.485	14.98 ppm	2055210	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	98
2	Benzo[b]chrysene	278	C22H14	000214-17-5	96
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
4	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	93
5	Pentaphene	278	C22H14	000222-93-5	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

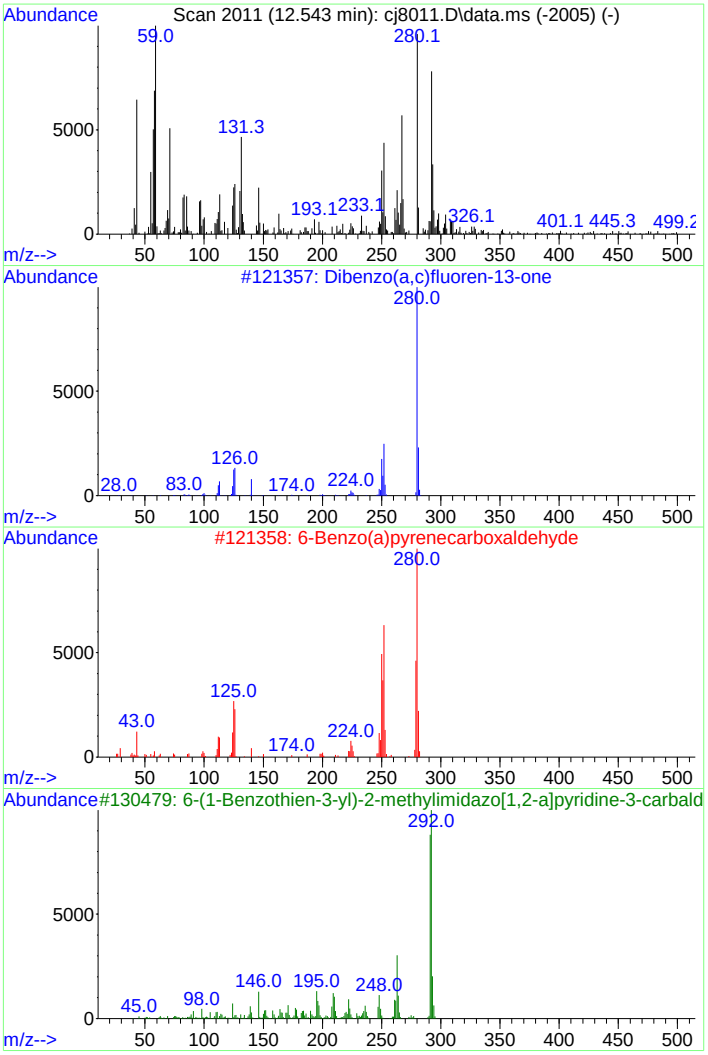
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

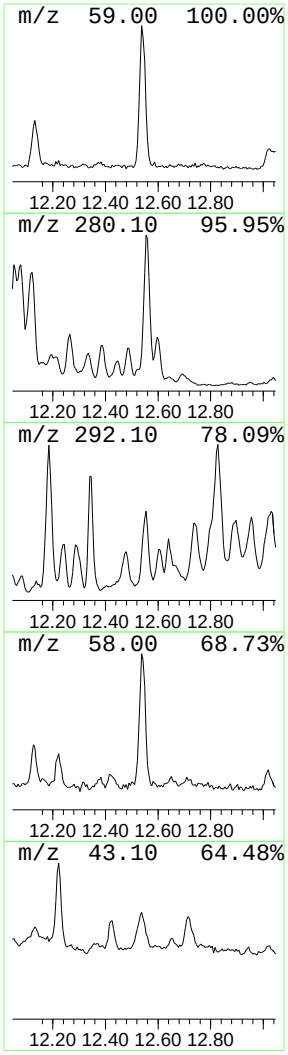
****

Peak Number 22 Unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.544	14.61 ppm	2003590	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo(a,c)fluoren-13-one	280	C21H12O	063041-47-4	50
2	6-Benzo(a)pyrenecarboxaldehyde	280	C21H12O	013312-42-0	35
3	6-(1-Benzothien-3-yl)-2-methylim...	292	C17H12N2OS	1000305-50-7	15
4	Dibenz[a,j]anthracene-5,6-quinone	308	C22H12O2	052755-66-5	15
5	Hexanoic acid, 2-hydroxy-2-butyl...	292	C17H28N2O2	006361-96-2	11





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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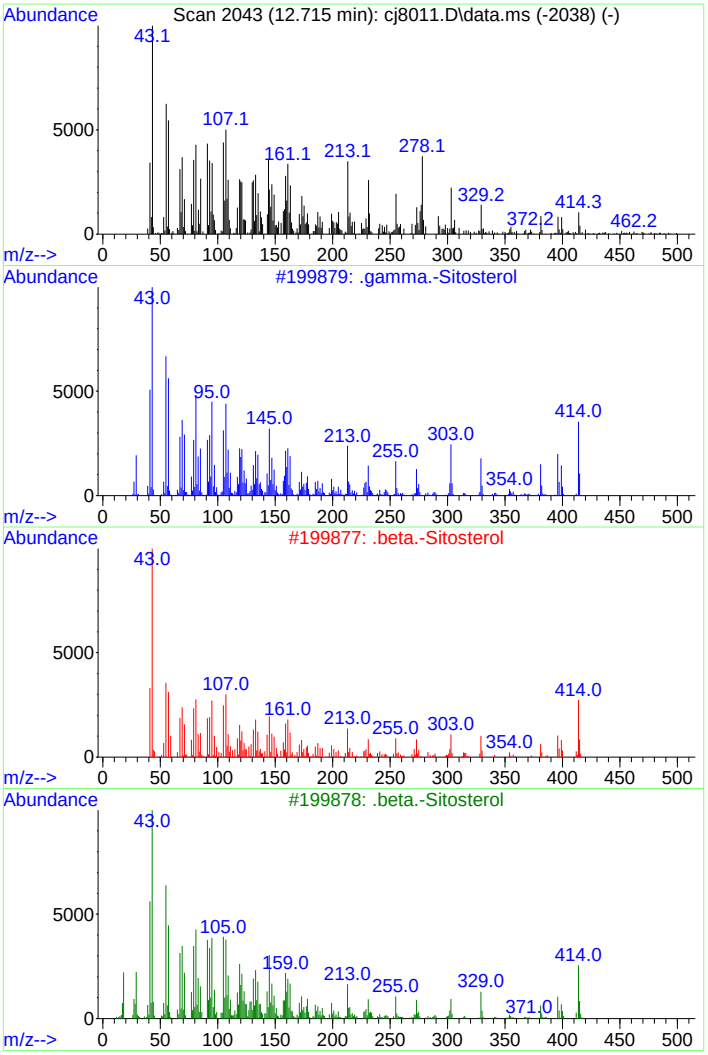
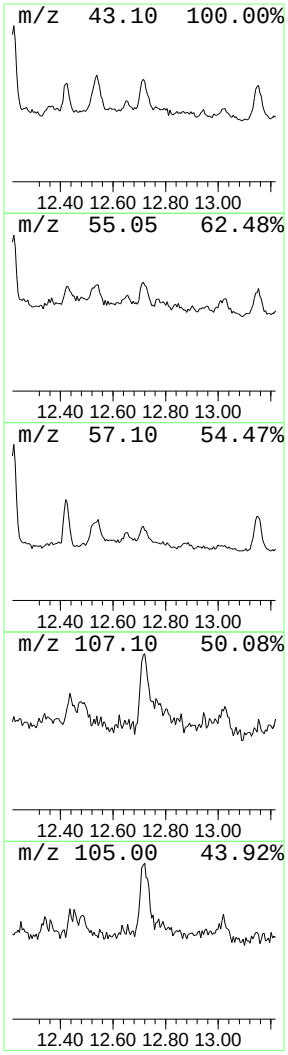
Peak Number 23 Dibenzopyrene Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.715	13.89 ppm	1905440	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	80
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	70
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	38
4	5-Benzofuranacetic acid, 6-ethen...	276	C16H20O4	019892-19-4	15
5	7-Ergostenol	400	C28H48O	116179-22-7	14





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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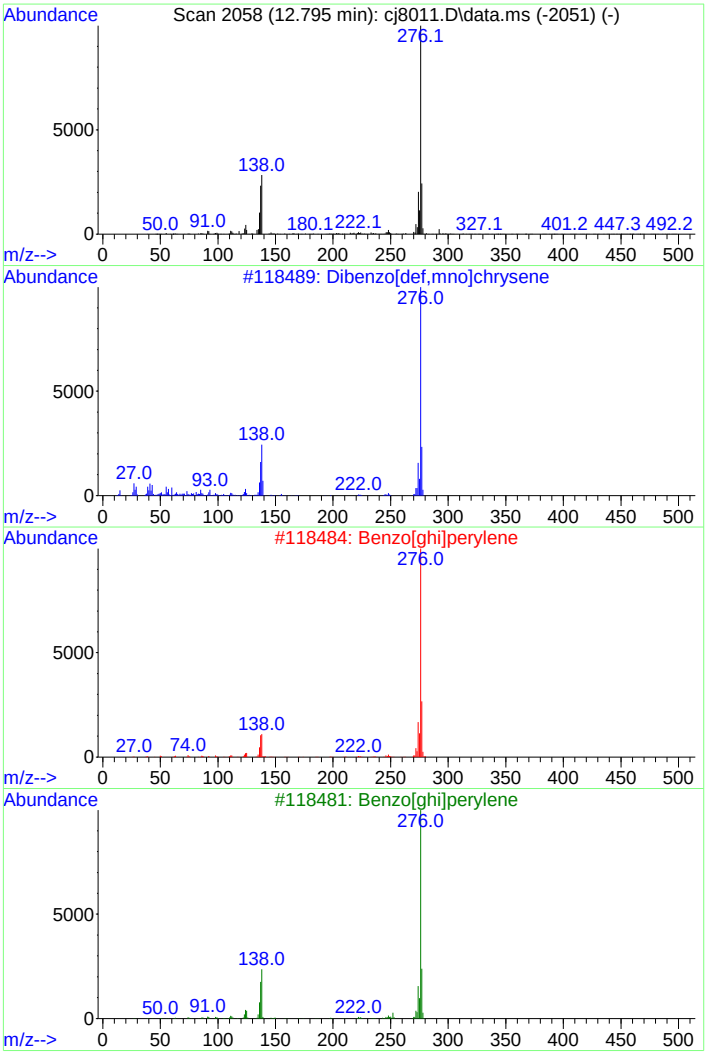
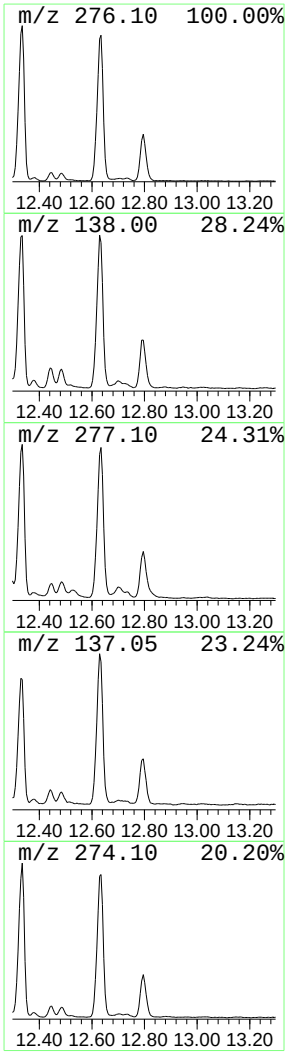
Peak Number 24 Unknown PAH substance Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.795	19.46 ppm	2669860	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	96
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	95
3	Benzo[ghi]perylene	276	C22H12	000191-24-2	94
4	Benzo[ghi]perylene	276	C22H12	000191-24-2	91
5	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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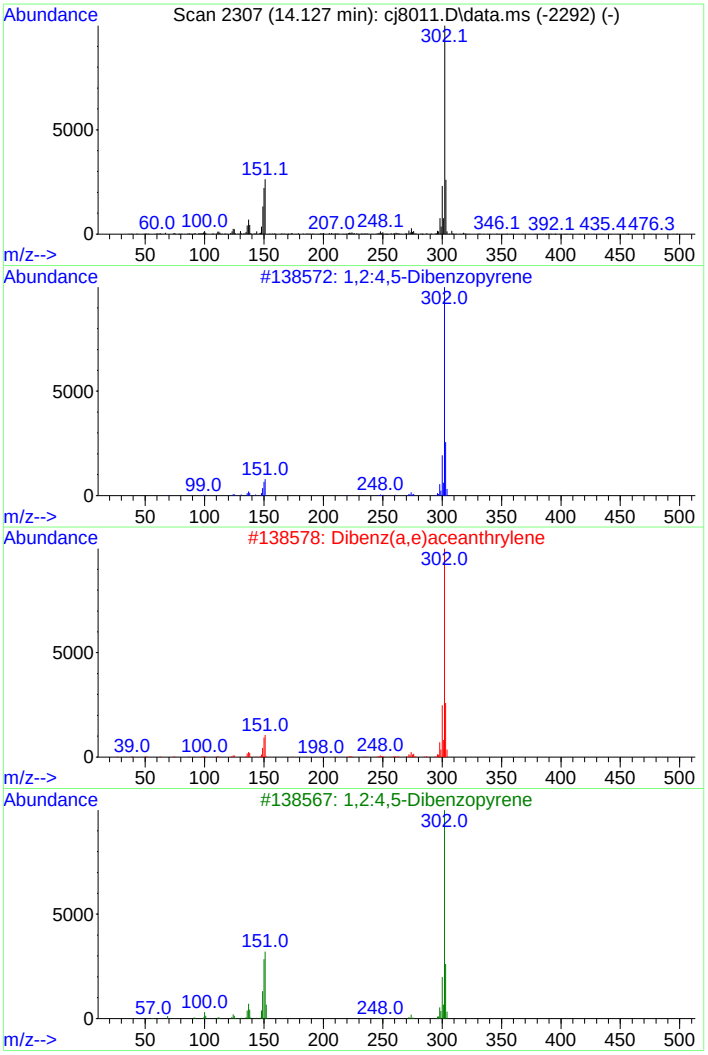
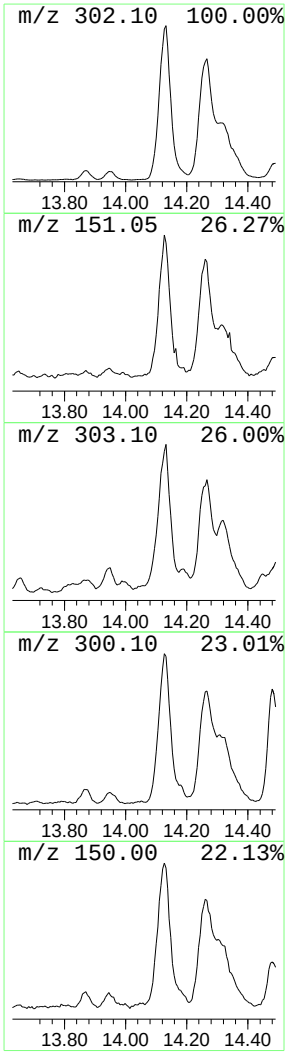
Peak Number 25 -Dibenzopyrene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.127	15.44 ppm	2117650	Perylene-d12	11.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	94
2	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	94
3	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	94
4	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	94
5	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	93





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8011.D
Acq On : 01 Jul 2024 08:15 pm
Operator : karimam
Sample : jd91204-14
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.536	17.0	ppm	940927	2	4.365	2217180	40.0
4H-Cyclopenta[d...	8.034	25.0	ppm	2313550	8	7.489	3702930	40.0
Unknown	10.826	13.4	ppm	1841710	11	11.287	5487080	40.0
Unknown PAH sub...	11.046	24.1	ppm	3300920	11	11.287	5487080	40.0
Alkane	11.083	18.6	ppm	2553130	11	11.287	5487080	40.0
Unknown	11.137	32.0	ppm	4388490	11	11.287	5487080	40.0
Unknown PAH sub...	11.190	46.1	ppm	6321400	11	11.287	5487080	40.0
Unknown	11.367	14.9	ppm	2038010	11	11.287	5487080	40.0
Unknown	11.458	21.9	ppm	3009620	11	11.287	5487080	40.0
Unknown	11.511	32.9	ppm	4509720	11	11.287	5487080	40.0
Unknown	11.602	17.2	ppm	2363640	11	11.287	5487080	40.0
Alkane	11.682	37.3	ppm	5122380	11	11.287	5487080	40.0
Unknown	11.752	23.7	ppm	3245180	11	11.287	5487080	40.0
Unknown	11.795	12.9	ppm	1766270	11	11.287	5487080	40.0
Vitamin E	11.848	19.1	ppm	2617330	11	11.287	5487080	40.0
Unknown PAH sub...	11.934	16.4	ppm	2255140	11	11.287	5487080	40.0
Unknown PAH sub...	12.003	13.1	ppm	1801770	11	11.287	5487080	40.0
Unknown	12.046	13.9	ppm	1907270	11	11.287	5487080	40.0
Unknown PAH sub...	12.217	41.7	ppm	5718480	11	11.287	5487080	40.0
Unknown PAH sub...	12.442	16.5	ppm	2259540	11	11.287	5487080	40.0
Unknown PAH sub...	12.485	15.0	ppm	2055210	11	11.287	5487080	40.0
Unknown	12.544	14.6	ppm	2003590	11	11.287	5487080	40.0
Dibenzopyrene	12.715	13.9	ppm	1905440	11	11.287	5487080	40.0
Unknown PAH sub...	12.795	19.5	ppm	2669860	11	11.287	5487080	40.0
-Dibenzopyrene	14.127	15.4	ppm	2117650	11	11.287	5487080	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7999.D
Acq On : 01 Jul 2024 04:31 pm
Operator : karimam
Sample : jd91204-15 Inst : GCMSCJ
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 02 02:19:25 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

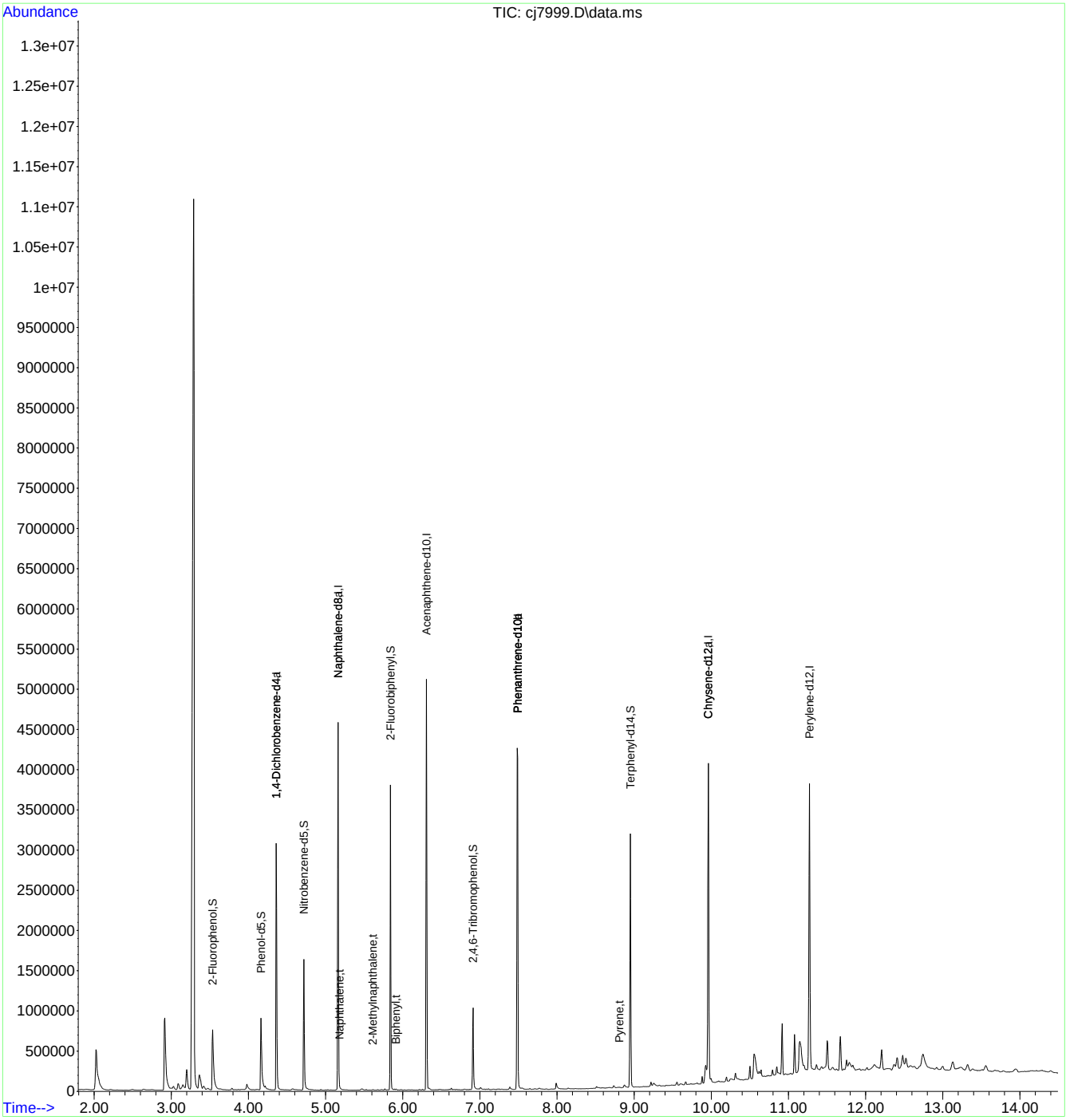
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.360	152	388312	40.00	ppm	0.00
24) Naphthalene-d8	5.162	136	1445929	40.00	ppm	0.00
46) Acenaphthene-d10	6.307	164	819436	40.00	ppm	0.00
69) Phenanthrene-d10	7.489	188	1534579	40.00	ppm	0.00
84) Chrysene-d12	9.960	240	1220718	40.00	ppm	0.00
93) Perylene-d12	11.270	264	1229883	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.360	152	388312	40.00	ppm	0.00
105) Phenanthrene-d10a	7.489	188	1534579	40.00	ppm	0.00
107) Naphthalene-d8a	5.162	136	1445929	40.00	ppm	0.00
109) Phenanthrene-d10b	7.489	188	1534579	40.00	ppm	0.00
112) Chrysene-d12a	9.960	240	1220718	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.536	112	268784	24.08	ppm	0.01
Spiked Amount 50.000			Recovery = 48.16%			
8) Phenol-d5	4.162	99	367427	25.52	ppm	0.00
Spiked Amount 50.000			Recovery = 51.04%			
25) Nitrobenzene-d5	4.718	82	435210	29.40	ppm	0.00
Spiked Amount 50.000			Recovery = 58.80%			
51) 2-Fluorobiphenyl	5.841	172	840006	32.58	ppm	0.00
Spiked Amount 50.000			Recovery = 65.16%			
74) 2,4,6-Tribromophenol	6.911	330	100944	30.00	ppm	0.00
Spiked Amount 50.000			Recovery = 60.00%			
87) Terphenyl-d14	8.949	244	922020	30.57	ppm	0.00
Spiked Amount 50.000			Recovery = 61.14%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
38) Naphthalene	5.178	128	9154	0.2643	ppm	98
44) 2-Methylnaphthalene	5.611	141	1976	0.0962	ppm	94
53) Biphenyl	5.911	154	2397	0.0851	ppm	95
86) Pyrene	8.805	202	3049	0.0734	ppm	85

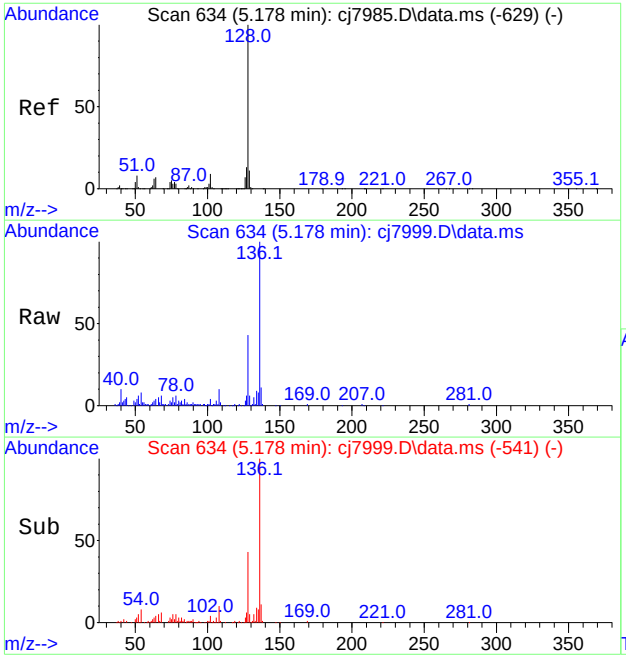
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7999.D
Acq On : 01 Jul 2024 04:31 pm
Operator : karimam
Sample : jd91204-15 Inst : GCMSCJ
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 02 02:19:25 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

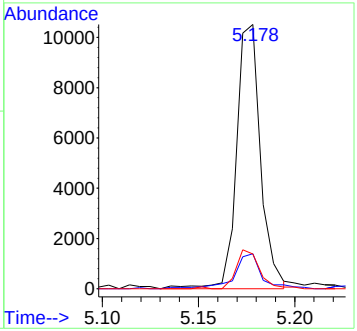


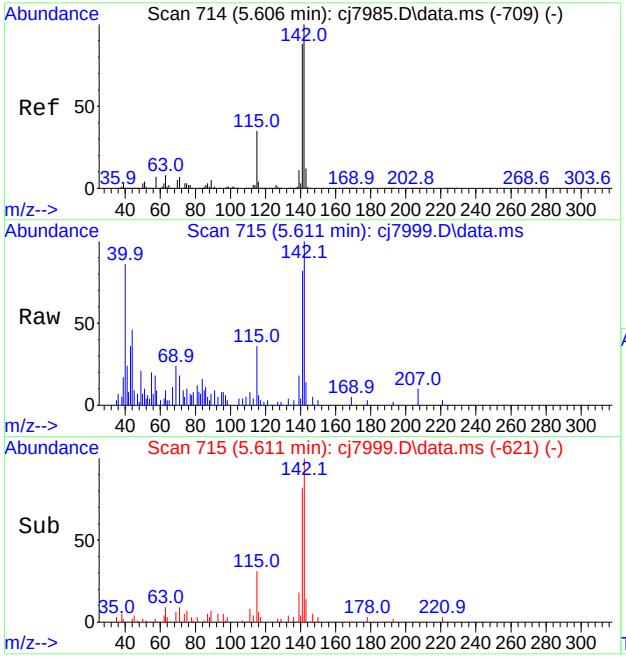


#38
Naphthalene
Concen: 0.2643 ppm
RT: 5.178 min Scan# 634
Delta R.T. 0.000 min
Lab File: cj7999.D
Acq: 01 Jul 2024 04:31 pm

Tgt Ion:128 Resp: 9154

Ion	Ratio	Lower	Upper
128	100		
129	12.7	0.0	41.3
127	13.0	0.0	43.5

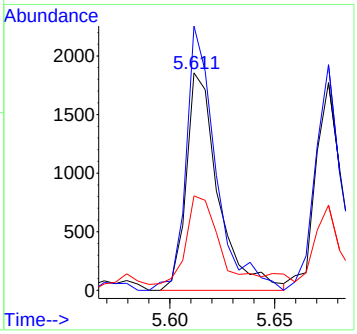


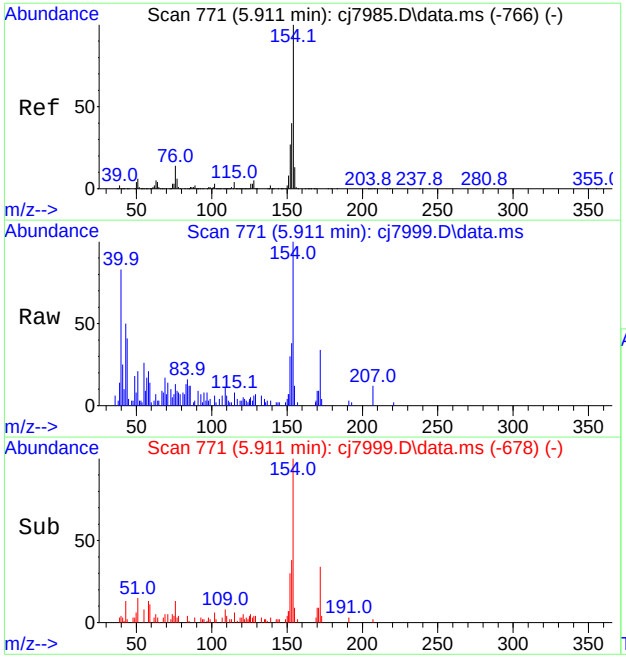


#44
2-Methylnaphthalene
Concen: 0.0962 ppm
RT: 5.611 min Scan# 715
Delta R.T. 0.005 min
Lab File: cj7999.D
Acq: 01 Jul 2024 04:31 pm

Tgt Ion:141 Resp: 1976

Ion	Ratio	Lower	Upper
141	100		
142	121.6	83.7	143.7
115	38.7	9.3	69.3

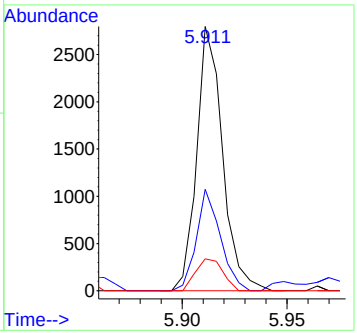


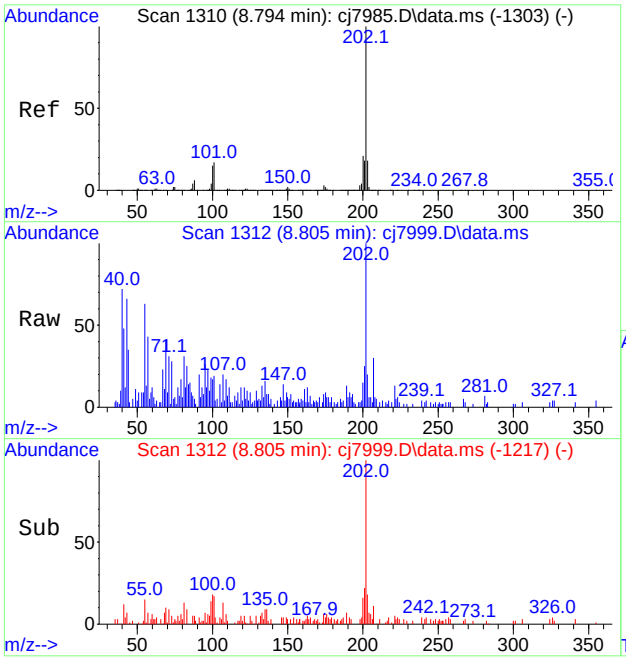


#53
Biphenyl
Concen: 0.0851 ppm
RT: 5.911 min Scan# 771
Delta R.T. 0.000 min
Lab File: cj7999.D
Acq: 01 Jul 2024 04:31 pm

Tgt Ion:154 Resp: 2397

Ion	Ratio	Lower	Upper
154	100		
153	36.6	10.3	70.3
155	12.1	0.0	42.9

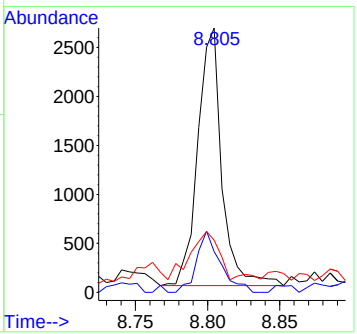




#86
Pyrene
Concen: 0.0734 ppm
RT: 8.805 min Scan# 1312
Delta R.T. 0.011 min
Lab File: cj7999.D
Acq: 01 Jul 2024 04:31 pm

Tgt Ion:202 Resp: 3049

Ion	Ratio	Lower	Upper
202	100		
200	13.2	0.0	51.0
203	12.7	0.0	48.5



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7999.D
Acq On : 01 Jul 2024 04:31 pm
Operator : karimam
Sample : jd91204-15
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj7999.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.162	441	444	453	rBV	893601	970570	24.83%	2.347%
2	4.215	453	454	465	rVB	47348	55015	1.41%	0.133%
3	4.360	476	481	495	rBV	3069592	2307338	59.02%	5.579%
4	4.574	515	521	542	rBV4	14816	41102	1.05%	0.099%
5	4.718	542	548	573	rVB	1626950	1232914	31.54%	2.981%
6	4.938	582	589	597	rBV	9090	11232	0.29%	0.027%
7	5.162	622	631	643	rBV	4573405	3056482	78.18%	7.390%
8	5.472	683	689	697	rBV6	15885	31081	0.79%	0.075%
9	5.767	740	744	748	rBV4	16275	11982	0.31%	0.029%
10	5.841	748	758	765	rBV	3794001	2458717	62.89%	5.945%
11	5.911	769	771	775	rVB2	12498	12051	0.31%	0.029%
12	6.307	839	845	862	rBV	5110245	3595521	91.97%	8.693%
13	6.628	903	905	908	rVB	19365	12810	0.33%	0.031%
14	6.799	926	937	943	rBV6	8960	21470	0.55%	0.052%
15	6.911	952	958	968	rBV	1017405	901027	23.05%	2.178%
16	7.007	973	976	982	rVB	24743	26495	0.68%	0.064%
17	7.168	1001	1006	1014	rBV7	6688	14357	0.37%	0.035%
18	7.387	1039	1047	1057	rBV2	32378	42898	1.10%	0.104%
19	7.484	1057	1065	1073	rBV	4245505	3810656	97.47%	9.213%
20	7.542	1075	1076	1086	rVB5	15646	23863	0.61%	0.058%
21	7.714	1100	1108	1113	rBV5	8055	16054	0.41%	0.039%
22	7.767	1113	1118	1124	rBV3	12483	14711	0.38%	0.036%
23	7.992	1150	1160	1172	rBV2	75612	107260	2.74%	0.259%
24	8.141	1183	1188	1198	rBV3	12598	22707	0.58%	0.055%
25	8.510	1251	1257	1261	rBV	23488	30491	0.78%	0.074%
26	8.676	1282	1288	1293	rBV9	8143	15701	0.40%	0.038%
27	8.735	1295	1299	1304	rBV2	28255	32177	0.82%	0.078%
28	8.799	1304	1311	1318	rBV4	8427	19836	0.51%	0.048%
29	8.874	1318	1325	1333	rBV2	34696	64309	1.64%	0.155%
30	8.949	1333	1339	1348	rBV	3153841	2626195	67.17%	6.349%
31	9.216	1380	1389	1392	rBV	56881	62092	1.59%	0.150%
32	9.254	1392	1396	1404	rVB3	34723	60284	1.54%	0.146%
33	9.329	1405	1410	1413	rVB6	11971	14397	0.37%	0.035%
34	9.414	1422	1426	1429	rBV6	9969	12098	0.31%	0.029%
35	9.553	1447	1452	1457	rBV	42794	45611	1.17%	0.110%
36	9.596	1457	1460	1469	rBV9	16468	37533	0.96%	0.091%
37	9.666	1469	1473	1477	rBV	39291	41510	1.06%	0.100%
38	9.816	1493	1501	1504	rBV6	15412	24843	0.64%	0.060%
39	9.880	1508	1513	1516	rBV	92784	76551	1.96%	0.185%
40	9.928	1516	1522	1524	rBV2	227118	347142	8.88%	0.839%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7999.D
Acq On : 01 Jul 2024 04:31 pm
Operator : karimam
Sample : jd91204-15
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.960	1524	1528	1533	rVB	3931516	3590998	91.85%	8.682%
42	10.094	1545	1553	1557	rBV3	19456	37208	0.95%	0.090%
43	10.195	1566	1572	1576	rBV	63286	70244	1.80%	0.170%
44	10.249	1578	1582	1590	rVV9	31548	85355	2.18%	0.206%
45	10.313	1590	1594	1606	rVV3	96190	159156	4.07%	0.385%
46	10.388	1606	1608	1612	rVV5	11488	13847	0.35%	0.033%
47	10.447	1613	1619	1622	rVV8	11581	19114	0.49%	0.046%
48	10.500	1622	1629	1634	rVV	170206	168317	4.31%	0.407%
49	10.554	1634	1639	1649	rVV2	317009	786838	20.13%	1.902%
50	10.618	1649	1651	1654	rVV3	95246	128185	3.28%	0.310%
51	10.645	1654	1656	1661	rVV	111968	131225	3.36%	0.317%
52	10.687	1662	1664	1667	rVV4	31478	44582	1.14%	0.108%
53	10.736	1667	1673	1677	rVV9	36201	97006	2.48%	0.235%
54	10.794	1679	1684	1687	rVV	102285	135823	3.47%	0.328%
55	10.848	1687	1694	1703	rVV	136605	308833	7.90%	0.747%
56	10.917	1703	1707	1711	rVV	667347	604517	15.46%	1.462%
57	10.955	1711	1714	1719	rVV7	39049	85554	2.19%	0.207%
58	11.030	1720	1728	1732	rVV10	42524	123854	3.17%	0.299%
59	11.078	1732	1737	1743	rVV	519438	537801	13.76%	1.300%
60	11.147	1743	1750	1764	rVV4	426306	1363067	34.86%	3.296%
61	11.270	1768	1773	1785	rVV	3621467	3909574	100.00%	9.452%
62	11.361	1785	1790	1798	rVV	120665	319136	8.16%	0.772%
63	11.431	1798	1803	1806	rVV2	92249	193024	4.94%	0.467%
64	11.500	1806	1816	1824	rVV	407402	754298	19.29%	1.824%
65	11.570	1824	1829	1836	rVV10	71963	205968	5.27%	0.498%
66	11.623	1836	1839	1842	rVV5	49273	77208	1.97%	0.187%
67	11.672	1842	1848	1853	rVV	448857	554730	14.19%	1.341%
68	11.714	1853	1856	1859	rVV4	43178	67638	1.73%	0.164%
69	11.752	1859	1863	1866	rVV	150183	212756	5.44%	0.514%
70	11.789	1866	1870	1875	rVV4	117850	266890	6.83%	0.645%
71	11.832	1875	1878	1885	rVV7	78726	151158	3.87%	0.365%
72	11.918	1885	1894	1898	rVV7	26917	81450	2.08%	0.197%
73	11.960	1898	1902	1908	rVV9	14341	33889	0.87%	0.082%
74	12.019	1908	1913	1918	rVV3	34601	53998	1.38%	0.131%
75	12.110	1918	1930	1942	rVV7	63607	268669	6.87%	0.650%
76	12.206	1942	1948	1953	rVB	250222	334701	8.56%	0.809%
77	12.276	1954	1961	1962	rBV7	12475	18425	0.47%	0.045%
78	12.367	1972	1978	1981	rBV7	72497	124412	3.18%	0.301%
79	12.404	1981	1985	1991	rVV	152566	244774	6.26%	0.592%
80	12.479	1991	1999	2003	rVV3	179214	340986	8.72%	0.824%
81	12.522	2003	2007	2013	rVV	142363	247716	6.34%	0.599%
82	12.586	2013	2019	2024	rVV10	43539	123170	3.15%	0.298%
83	12.624	2024	2026	2033	rVV7	32466	59749	1.53%	0.144%
84	12.741	2033	2048	2068	rVV9	183609	657351	16.81%	1.589%
85	12.918	2076	2081	2088	rVB9	27617	40894	1.05%	0.099%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7999.D
Acq On : 01 Jul 2024 04:31 pm
Operator : karimam
Sample : jd91204-15
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.998	2088	2096	2105	rVB8	46715	95574	2.44%	0.231%
87	13.126	2110	2120	2127	rBV4	106282	229755	5.88%	0.555%
88	13.228	2130	2139	2150	rVV4	39907	162274	4.15%	0.392%
89	13.319	2150	2156	2163	rVB3	76933	156702	4.01%	0.379%
90	13.383	2163	2168	2176	rBV9	24198	55656	1.42%	0.135%
91	13.512	2185	2192	2194	rVV8	19587	35158	0.90%	0.085%
92	13.554	2194	2200	2210	rVB4	71875	160292	4.10%	0.388%
93	13.672	2215	2222	2227	rBV10	16750	34773	0.89%	0.084%
94	13.784	2236	2243	2253	rVB10	17726	45742	1.17%	0.111%
95	13.945	2263	2273	2281	rVB10	38126	106881	2.73%	0.258%
96	14.137	2303	2309	2310	rVV6	10623	12740	0.33%	0.031%
97	14.159	2311	2313	2318	rVV6	10808	17138	0.44%	0.041%
98	14.218	2321	2324	2327	rVV5	13928	15008	0.38%	0.036%
99	14.287	2334	2337	2342	rVB7	14272	18172	0.46%	0.044%
100	14.399	2351	2358	2366	rVB10	27459	71725	1.83%	0.173%

Sum of corrected areas: 41360761

LSC Report - Integrated Chromatogram

```
Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7999.D
Acq On    : 01 Jul 2024  04:31 pm
Operator  : karimam
Sample    : jd91204-15
Misc      : op55759,ecj348,30.6,,,1,1
ALS Vial  : 15   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title  : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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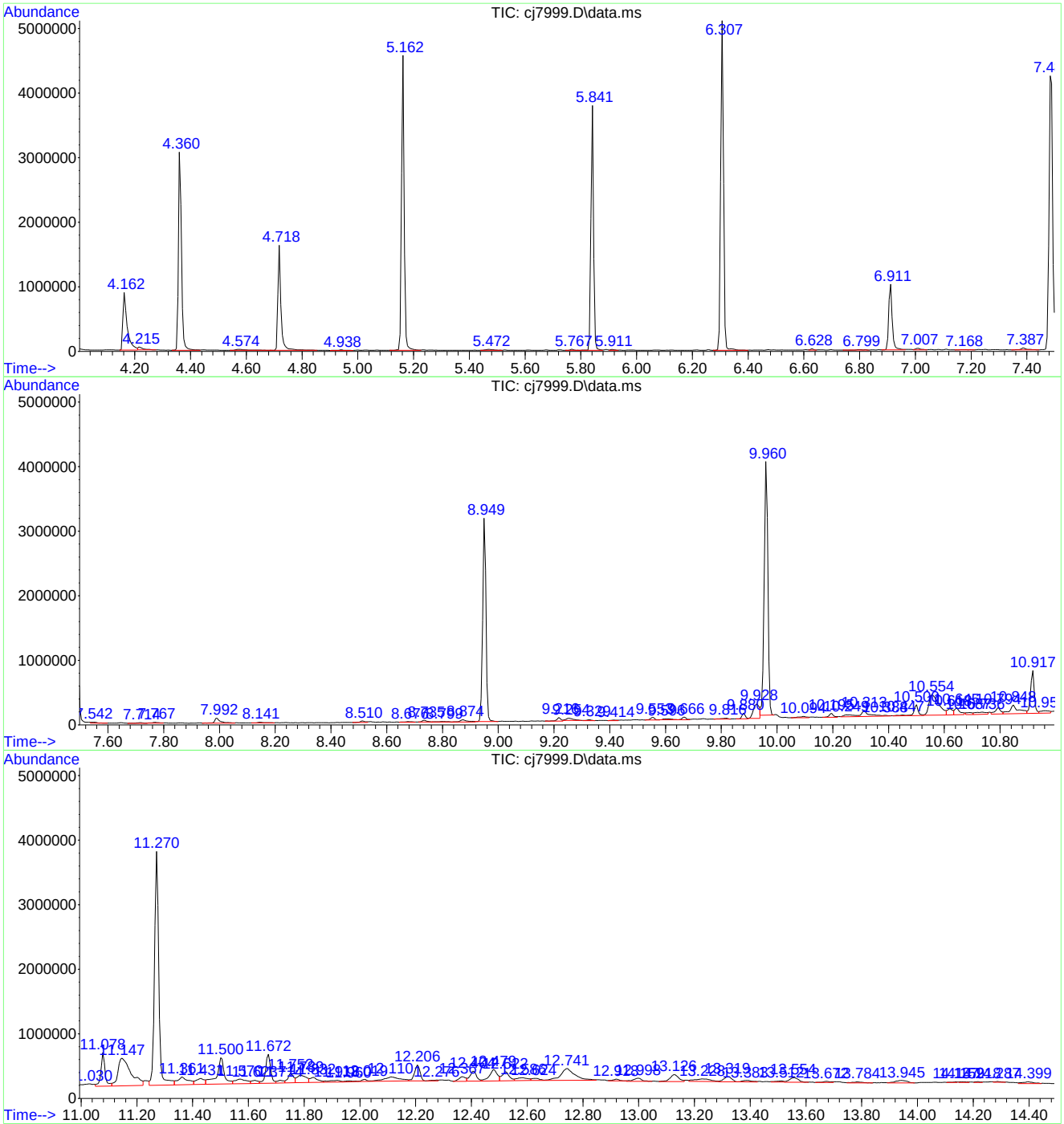


Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7999.D
Acq On : 01 Jul 2024 04:31 pm
Operator : karimam
Sample : jd91204-15
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

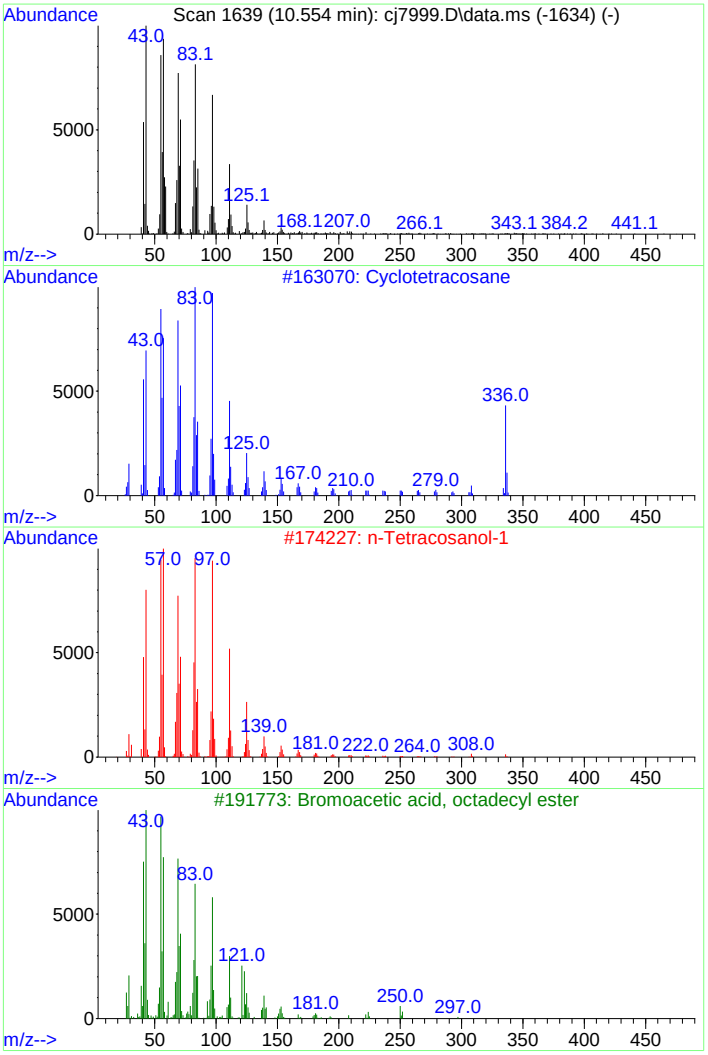
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

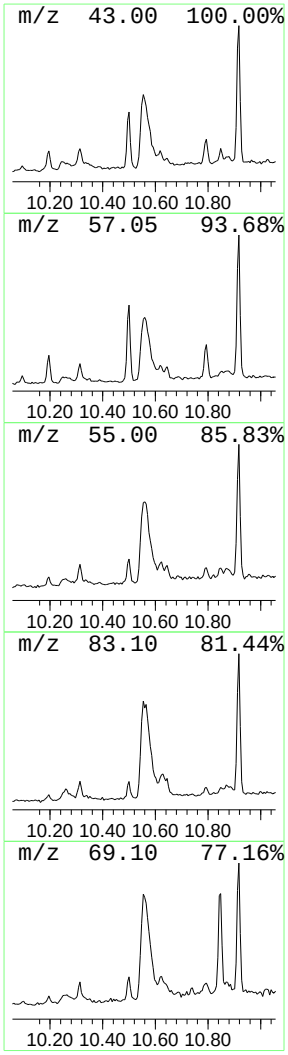
****

Peak Number 1 Unknown alcohol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.554	8.76 ppm	786838	Chrysene-d12a	9.960

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetracosane	336	C24H48	000297-03-0	94
2	n-Tetracosanol-1	354	C24H50O	000506-51-4	93
3	Bromoacetic acid, octadecyl ester	390	C20H39BrO2	018992-03-5	91
4	Nonadecyl trifluoroacetate	380	C21H39F3O2	1000351-76-3	91
5	1-Heneicosyl formate	340	C22H44O2	077899-03-7	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7999.D
Acq On : 01 Jul 2024 04:31 pm
Operator : karimam
Sample : jd91204-15
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

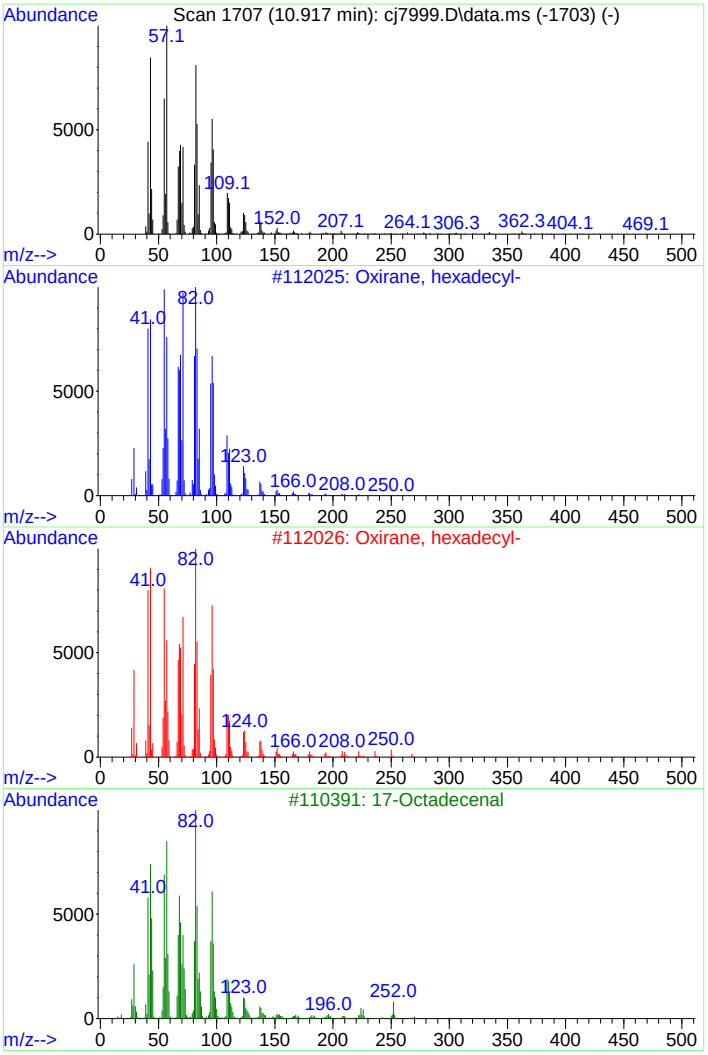
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

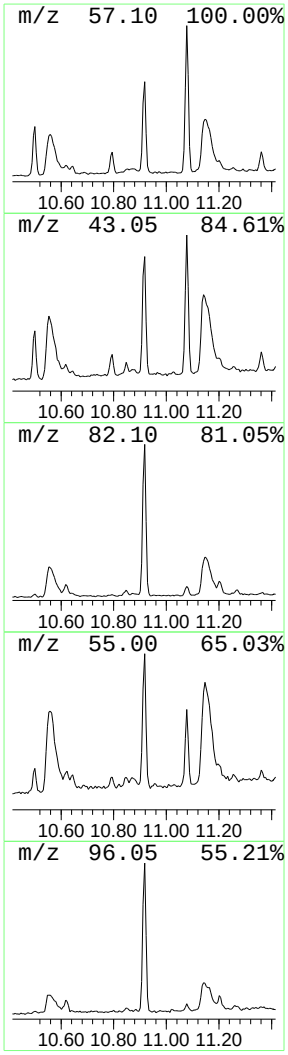
****

Peak Number 2 Unknown alcohol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.917	6.18 ppm	604517	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	98
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	96
3	17-Octadecenal	266	C18H34O	056554-86-0	95
4	16-Octadecenal	266	C18H34O	056554-87-1	94
5	13-Octadecenal	266	C18H34O	056554-90-6	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7999.D
Acq On : 01 Jul 2024 04:31 pm
Operator : karimam
Sample : jd91204-15
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

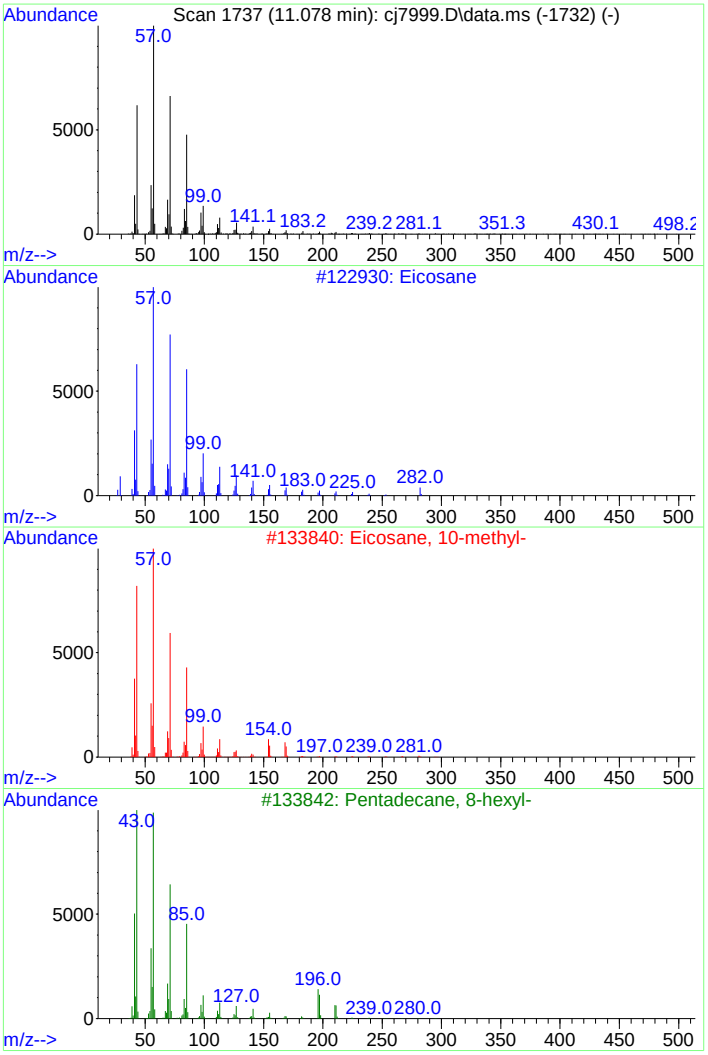
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

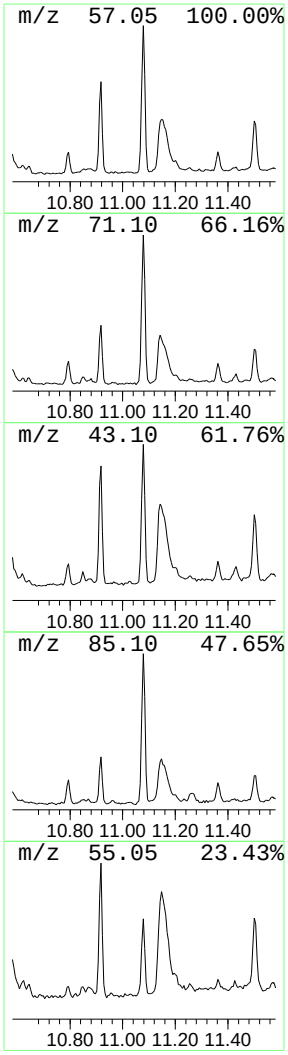
****

Peak Number 3 Alkane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.078	5.50 ppm	537801	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	95
2	Eicosane, 10-methyl-	296	C21H44	054833-23-7	94
3	Pentadecane, 8-hexyl-	296	C21H44	013475-75-7	93
4	Heneicosane	296	C21H44	000629-94-7	91
5	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7999.D
Acq On : 01 Jul 2024 04:31 pm
Operator : karimam
Sample : jd91204-15
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

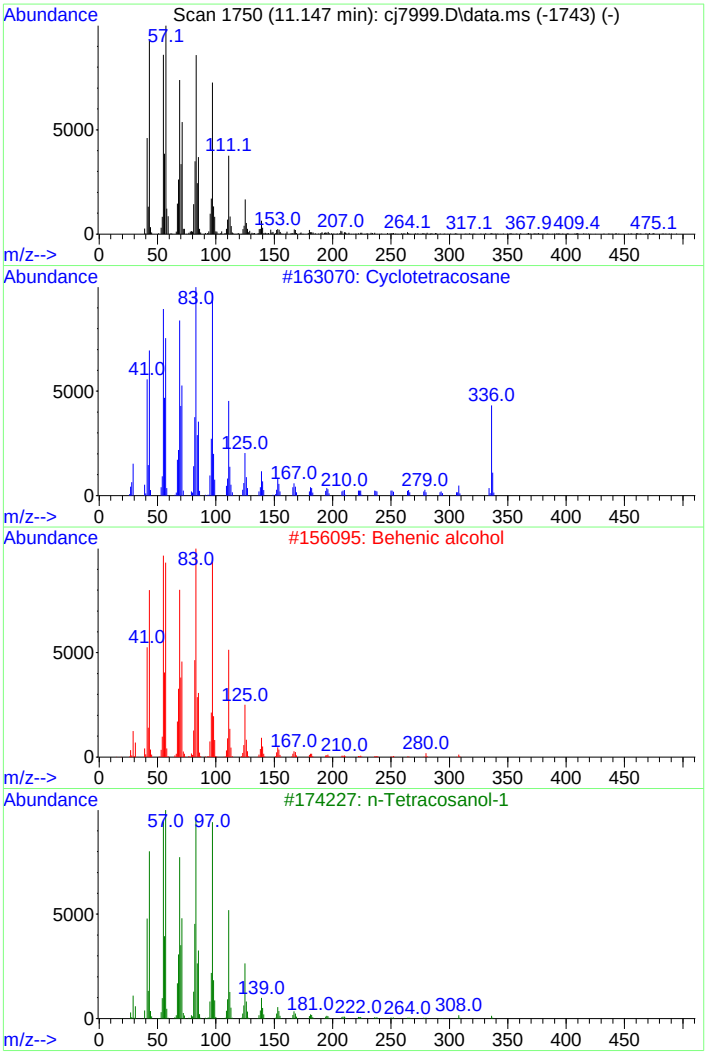
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

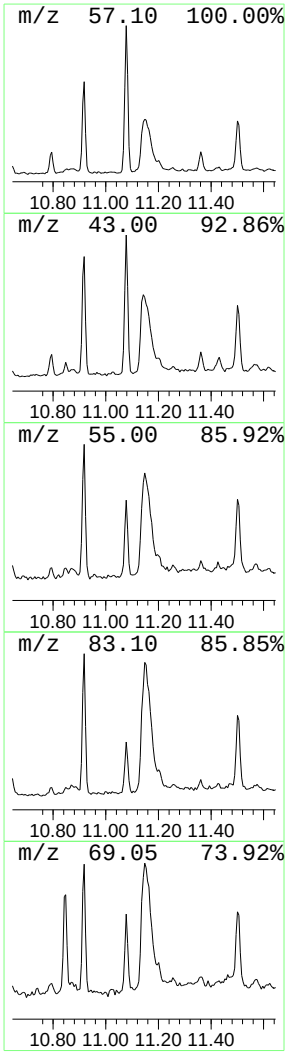
****

Peak Number 4 Unknown alcohol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.147	13.95 ppm	1363070	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetracosane	336	C24H48	000297-03-0	99
2	Behenic alcohol	326	C22H46O	000661-19-8	94
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
4	1-Heneicosanol	312	C21H44O	015594-90-8	91
5	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7999.D
Acq On : 01 Jul 2024 04:31 pm
Operator : karimam
Sample : jd91204-15
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

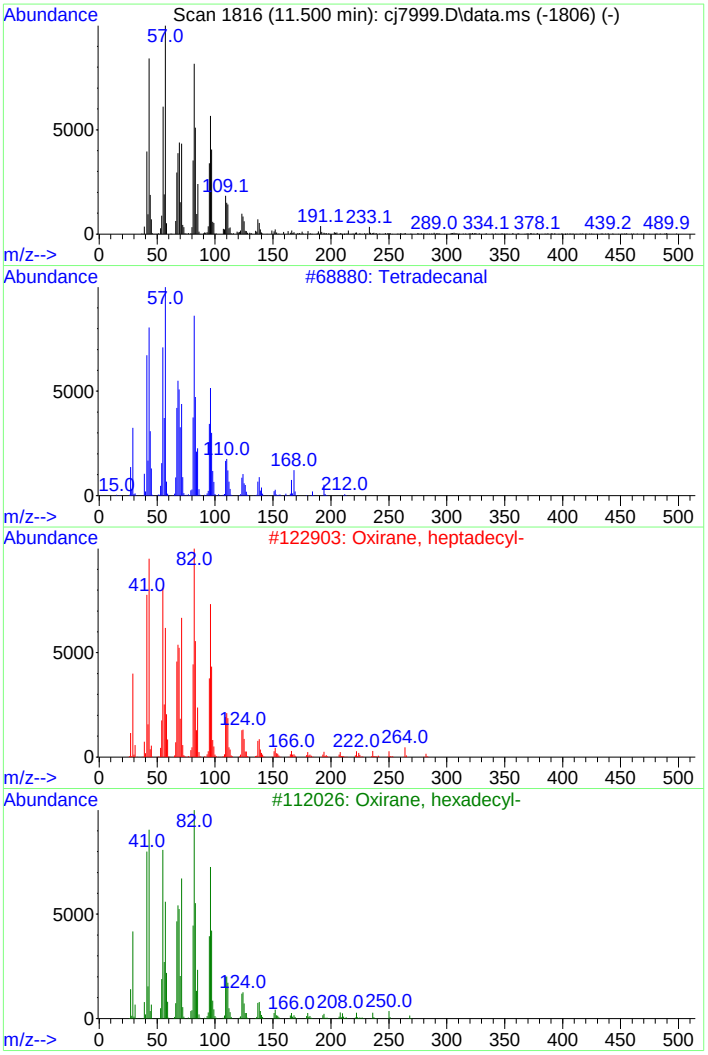
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

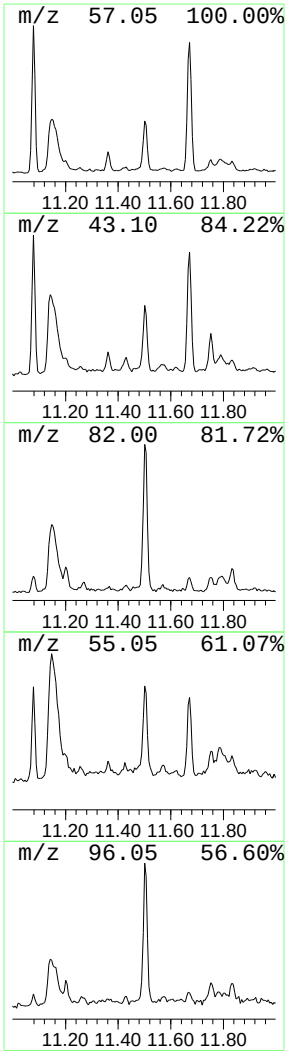
****

Peak Number 5 Unknown alcohol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.500	7.72 ppm	754298	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecanal	212	C14H28O	000124-25-4	91
2	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	91
3	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	90
4	17-Octadecenal	266	C18H34O	056554-86-0	90
5	18-Nonadecen-1-ol	282	C19H38O	1000142-89-2	81





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7999.D
Acq On : 01 Jul 2024 04:31 pm
Operator : karimam
Sample : jd91204-15
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

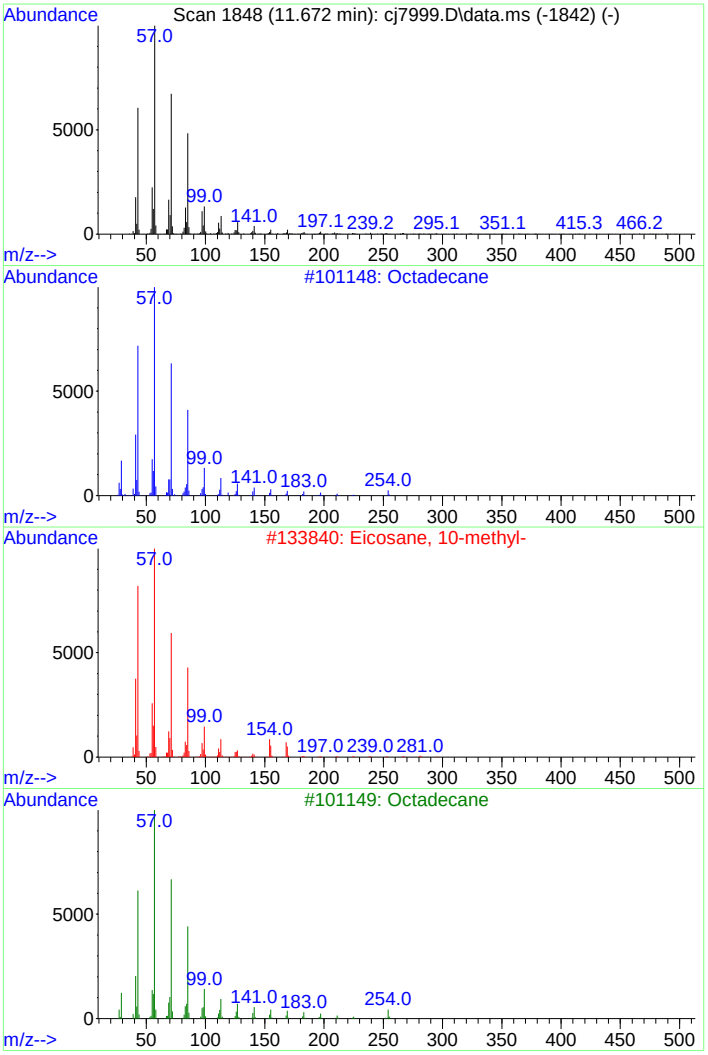
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

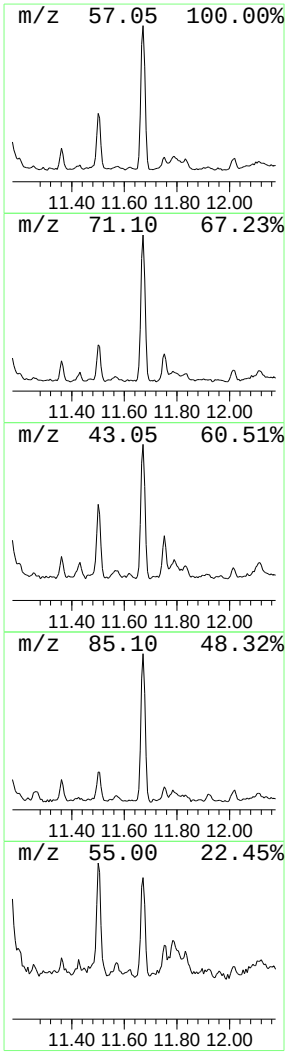
****

Peak Number 6 Alkane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.672	5.68 ppm	554730	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	95
2	Eicosane, 10-methyl-	296	C21H44	054833-23-7	94
3	Octadecane	254	C18H38	000593-45-3	93
4	Heneicosane	296	C21H44	000629-94-7	91
5	Octacosane	394	C28H58	000630-02-4	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7999.D
Acq On : 01 Jul 2024 04:31 pm
Operator : karimam
Sample : jd91204-15
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

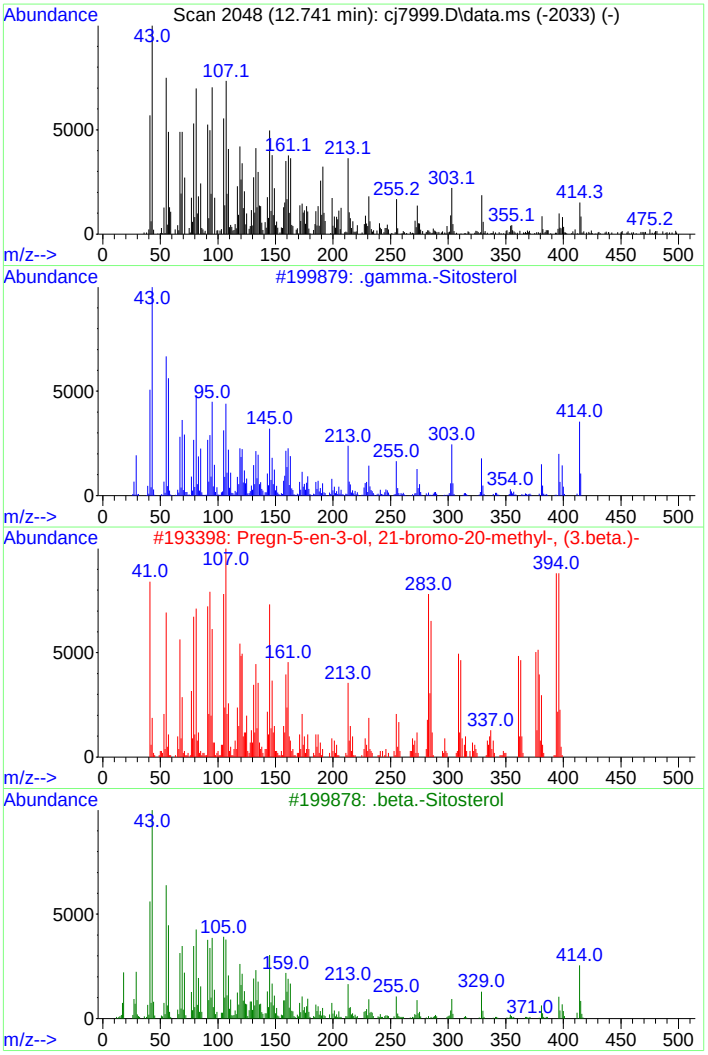
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

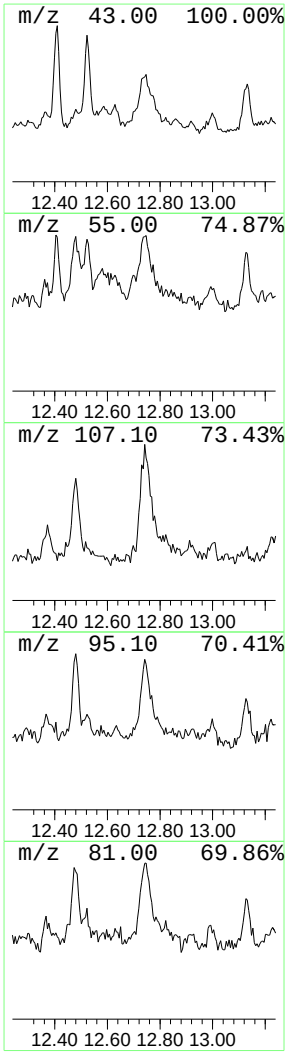
****

Peak Number 7 Sitosterol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.741	6.73 ppm	657351	Perylene-d12	11.270

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	97
2	Pregn-5-en-3-ol, 21-bromo-20-met...	394	C22H35BrO	055103-80-5	96
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	94
4	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	83
5	Isocholesteryl methyl ether	400	C28H48O	029944-53-4	80





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj7999.D
Acq On : 01 Jul 2024 04:31 pm
Operator : karimam
Sample : jd91204-15
Misc : op55759,ecj348,30.6,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown alcohol	10.554	8.8	ppm	786838	10	9.960	3591000	40.0
Unknown alcohol	10.917	6.2	ppm	604517	11	11.270	3909570	40.0
Alkane	11.078	5.5	ppm	537801	11	11.270	3909570	40.0
Unknown alcohol	11.147	13.9	ppm	1363070	11	11.270	3909570	40.0
Unknown alcohol	11.500	7.7	ppm	754298	11	11.270	3909570	40.0
Alkane	11.672	5.7	ppm	554730	11	11.270	3909570	40.0
Sitosterol	12.741	6.7	ppm	657351	11	11.270	3909570	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 07/02/24 05:10

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16 Inst : GCMSCJ
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 02 04:17:10 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

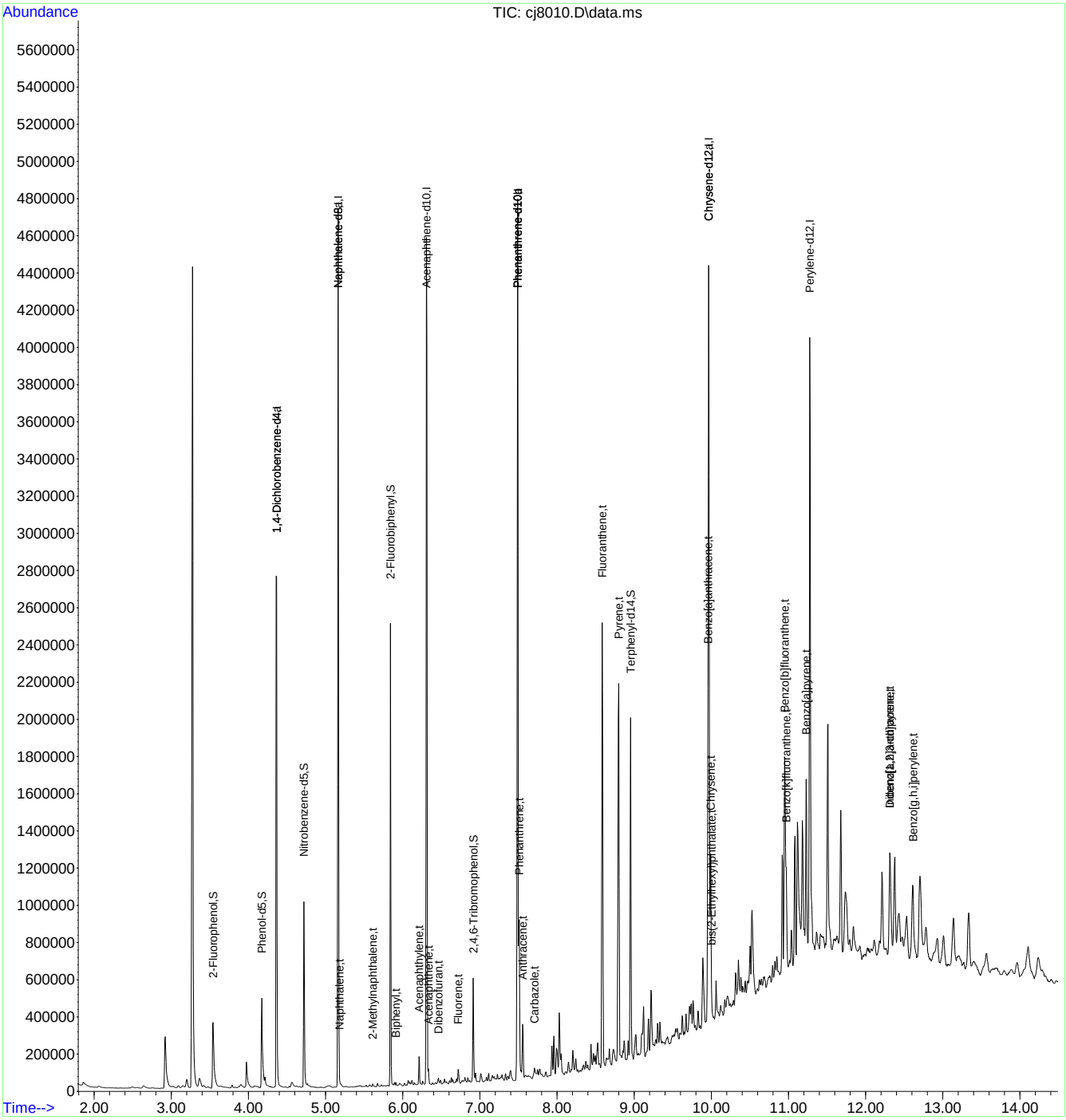
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.365	152	393070	40.00	ppm	0.00
24) Naphthalene-d8	5.162	136	1456204	40.00	ppm	0.00
46) Acenaphthene-d10	6.307	164	824298	40.00	ppm	0.00
69) Phenanthrene-d10	7.489	188	1528759	40.00	ppm	0.00
84) Chrysene-d12	9.966	240	1159552	40.00	ppm	0.00
93) Perylene-d12	11.276	264	1168106	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.365	152	393070	40.00	ppm	0.00
105) Phenanthrene-d10a	7.489	188	1528759	40.00	ppm	0.00
107) Naphthalene-d8a	5.162	136	1456204	40.00	ppm	0.00
109) Phenanthrene-d10b	7.489	188	1528759	40.00	ppm	0.00
112) Chrysene-d12a	9.966	240	1159552	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.542	112	149424	13.23	ppm	0.02
Spiked Amount 50.000			Recovery = 26.46%			
8) Phenol-d5	4.173	99	205957	14.13	ppm	0.02
Spiked Amount 50.000			Recovery = 28.26%			
25) Nitrobenzene-d5	4.718	82	271980	18.24	ppm	0.00
Spiked Amount 50.000			Recovery = 36.48%			
51) 2-Fluorobiphenyl	5.842	172	545366	21.03	ppm	0.00
Spiked Amount 50.000			Recovery = 42.06%			
74) 2,4,6-Tribromophenol	6.917	330	53111	15.85	ppm	0.00
Spiked Amount 50.000			Recovery = 31.70%			
87) Terphenyl-d14	8.955	244	566059	19.76	ppm	0.00
Spiked Amount 50.000			Recovery = 39.52%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
38) Naphthalene	5.178	128	7769	0.2227	ppm	99
44) 2-Methylnaphthalene	5.612	141	3326	0.1608	ppm	91
53) Biphenyl	5.911	154	2694	0.0951	ppm	90
56) Acenaphthylene	6.211	152	56742	1.7748	ppm	99
59) Acenaphthene	6.334	153	14655	0.6446	ppm	91
62) Dibenzofuran	6.462	168	7903	0.2505	ppm	93
66) Fluorene	6.719	166	18681m	0.7495	ppm	
78) Phenanthrene	7.510	178	290205	7.8549	ppm	100
79) Anthracene	7.553	178	97936	2.6474	ppm	99
80) Carbazole	7.708	167	14020	0.4067	ppm	98
82) Fluoranthene	8.586	202	862144	21.5547	ppm	98
86) Pyrene	8.799	202	784441	19.8922	ppm	100
89) Benzo[a]anthracene	9.955	228	398788	10.6964	ppm	94
91) Chrysene	9.992	228	344819	10.0244	ppm	97
92) bis(2-Ethylhexyl)phtha...	10.003	149	8946m	0.3433	ppm	
95) Benzo[b]fluoranthene	10.950	252	524242m	14.8566	ppm	
96) Benzo[k]fluoranthene	10.971	252	128102m	4.0344	ppm	
97) Benzo[a]pyrene	11.228	252	342828	11.7361	ppm	97
98) Indeno[1,2,3-cd]pyrene	12.314	276	240461	6.8092	ppm	88
100) Dibenz[a,h]anthracene	12.314	278	63938	2.2659	ppm	78
102) Benzo[g,h,i]perylene	12.613	276	226001	8.2353	ppm	98

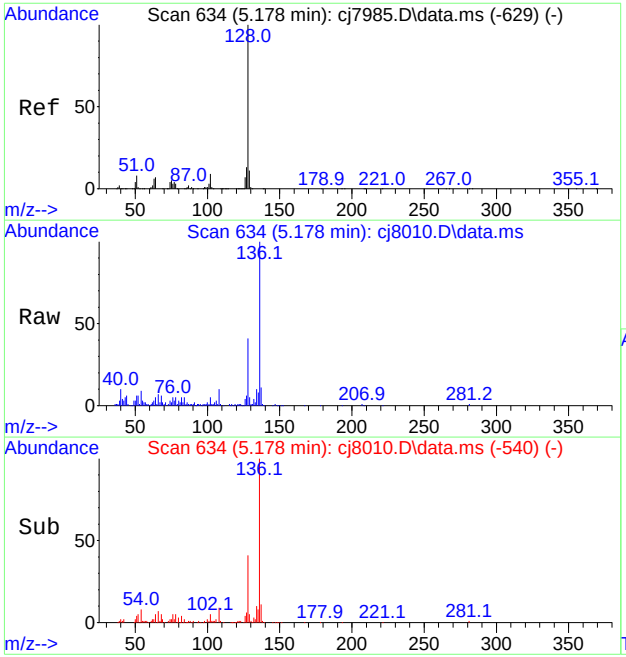
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16 Inst : GCMSCJ
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 02 04:17:10 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

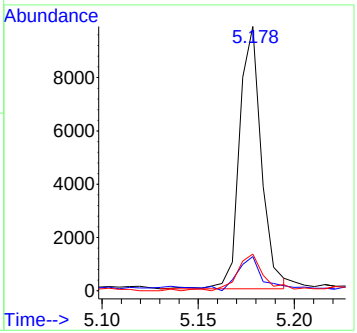


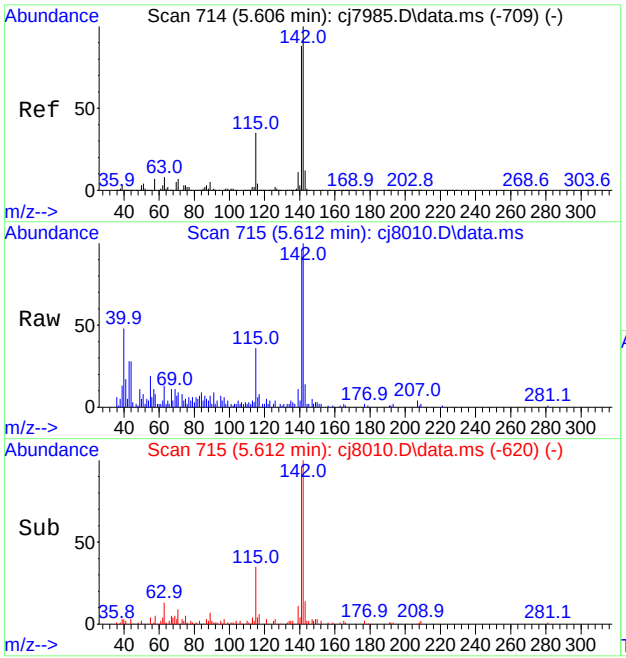


#38
Naphthalene
Concen: 0.2227 ppm
RT: 5.178 min Scan# 634
Delta R.T. 0.000 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:128 Resp: 7769

Ion	Ratio	Lower	Upper
128	100		
129	11.6	0.0	41.3
127	13.1	0.0	43.5

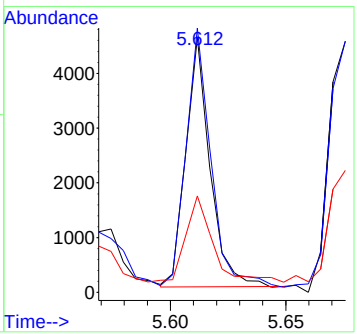


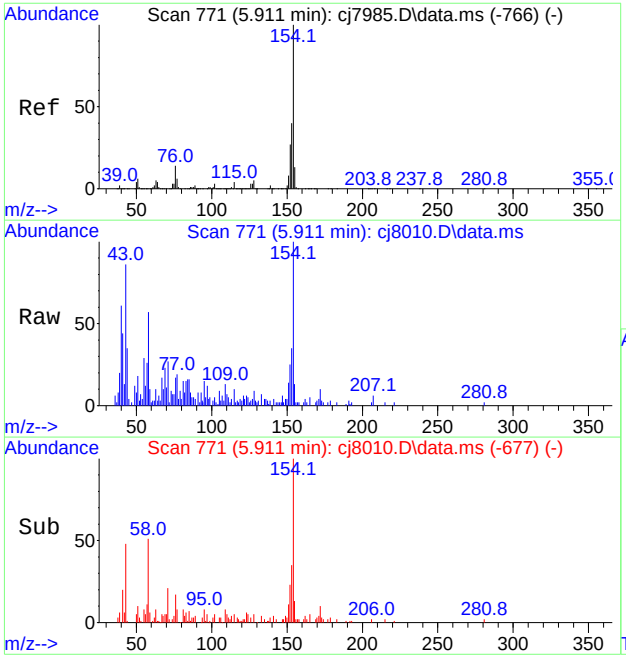


#44
2-Methylnaphthalene
Concen: 0.1608 ppm
RT: 5.612 min Scan# 715
Delta R.T. 0.006 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:141 Resp: 3326

Ion	Ratio	Lower	Upper
141	100		
142	104.2	83.7	143.7
115	34.3	9.3	69.3

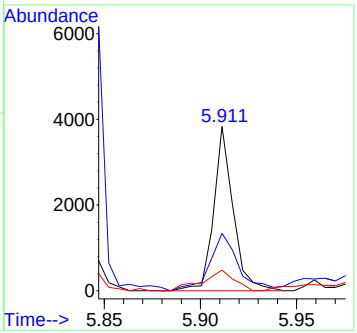


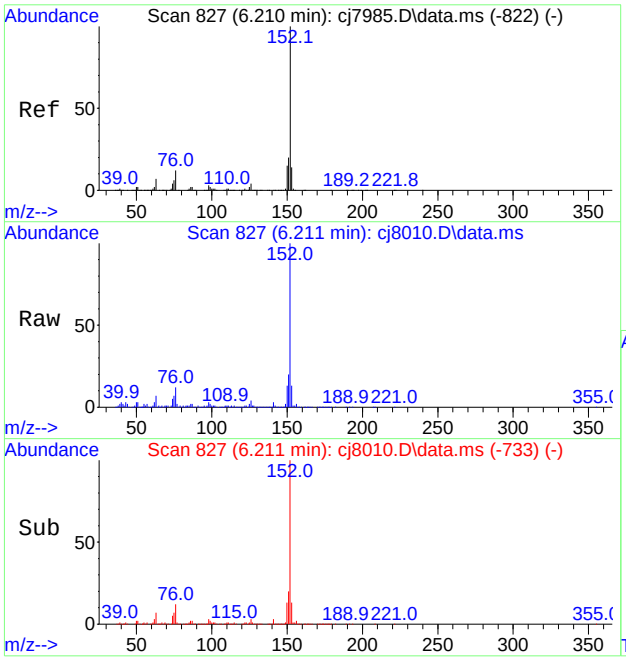


#53
Biphenyl
Concen: 0.0951 ppm
RT: 5.911 min Scan# 771
Delta R.T. 0.000 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:154 Resp: 2694

Ion	Ratio	Lower	Upper
154	100		
153	32.5	10.3	70.3
155	11.3	0.0	42.9

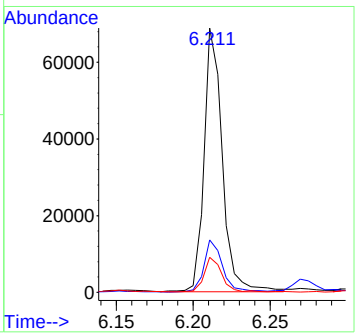


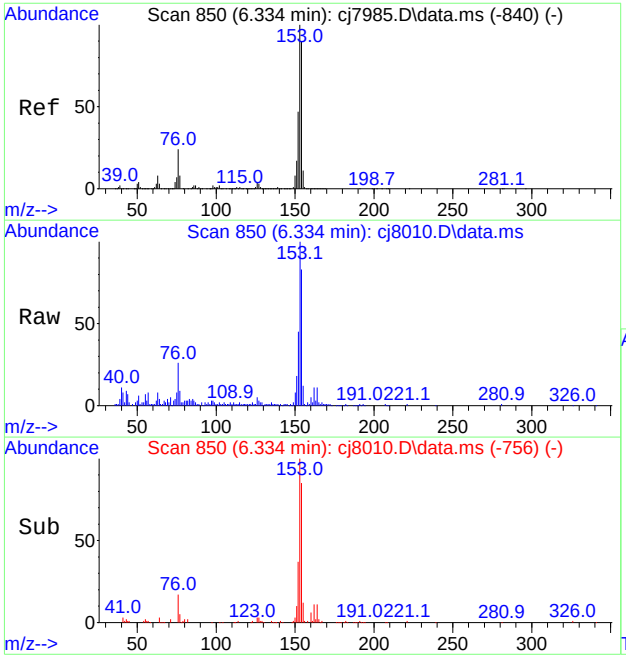


#56
Acenaphthylene
Concen: 1.7748 ppm
RT: 6.211 min Scan# 827
Delta R.T. 0.000 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:152 Resp: 56742

Ion	Ratio	Lower	Upper
152	100		
151	19.4	0.0	50.2
153	13.1	0.0	43.5

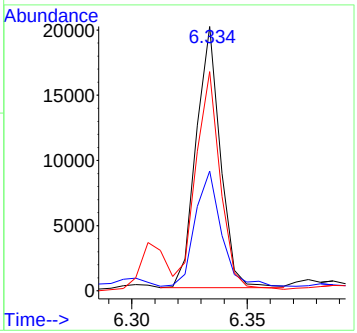


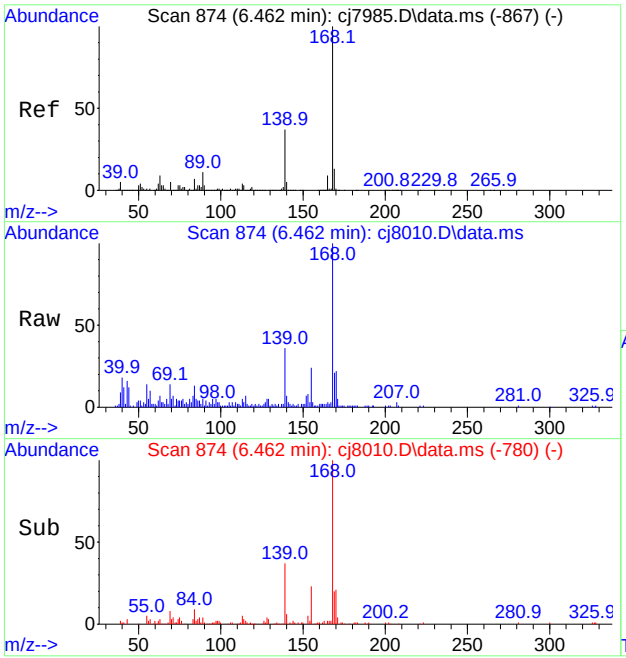


#59
Acenaphthene
Concen: 0.6446 ppm
RT: 6.334 min Scan# 850
Delta R.T. 0.000 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:153 Resp: 14655

Ion	Ratio	Lower	Upper
153	100		
152	44.2	16.9	76.9
154	76.1	56.2	116.2

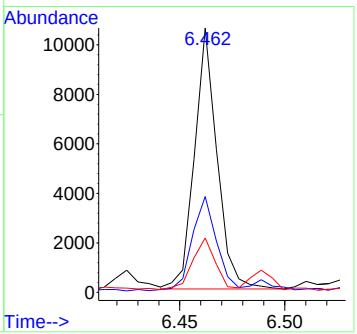


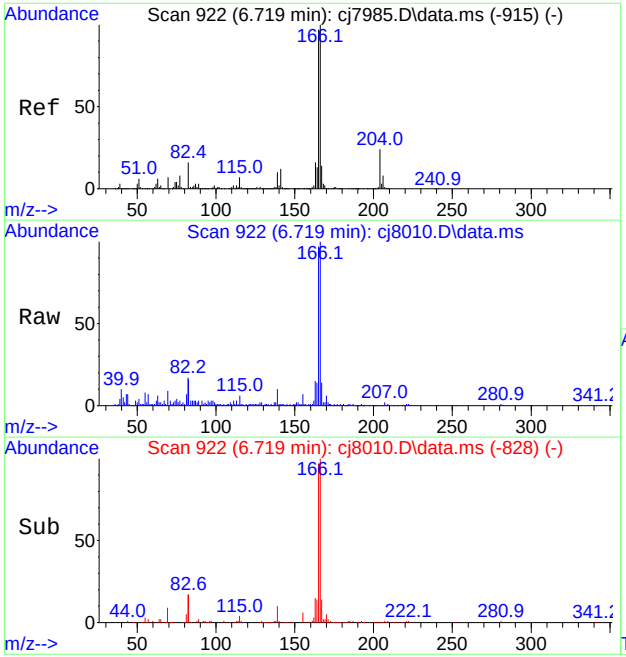


#62
Dibenzofuran
Concen: 0.2505 ppm
RT: 6.462 min Scan# 874
Delta R.T. 0.000 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:168 Resp: 7903

Ion	Ratio	Lower	Upper
168	100		
139	35.0	7.3	67.3
169	19.9	0.0	43.4

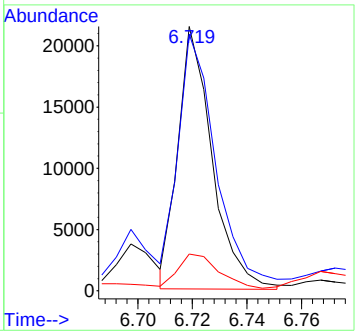


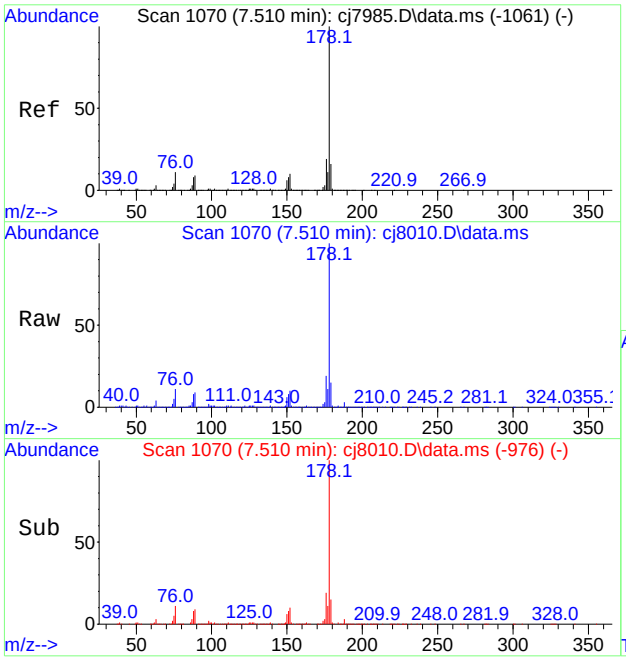


#66
Fluorene
Concen: 0.7495 ppm m
RT: 6.719 min Scan# 922
Delta R.T. 0.000 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:166 Resp: 18681

Ion	Ratio	Lower	Upper
166	100		
165	97.1	67.2	127.2
167	13.9	0.0	43.8

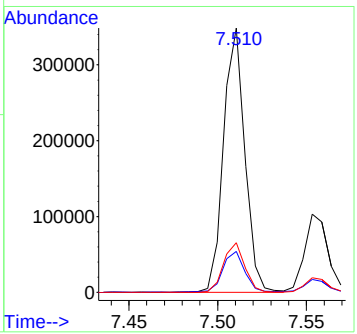


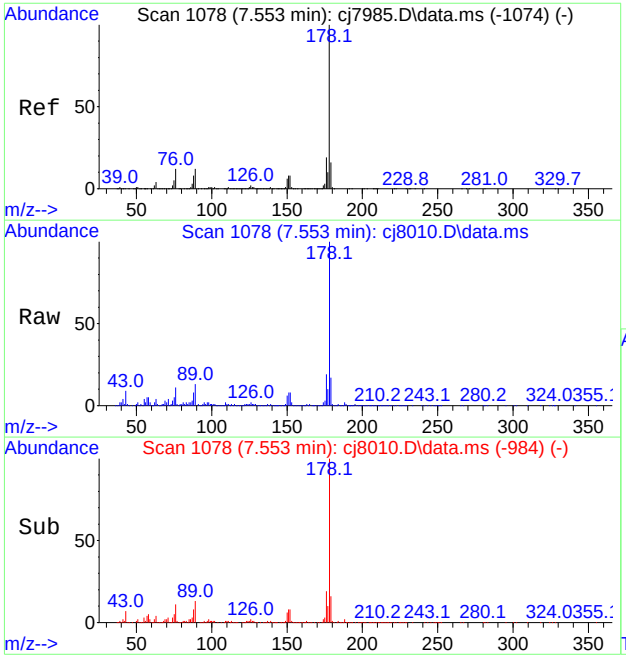


#78
Phenanthrene
Concen: 7.8549 ppm
RT: 7.510 min Scan# 1070
Delta R.T. 0.000 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:178 Resp: 290205

Ion	Ratio	Lower	Upper
178	100		
179	15.3	0.0	45.5
176	18.8	0.0	48.7

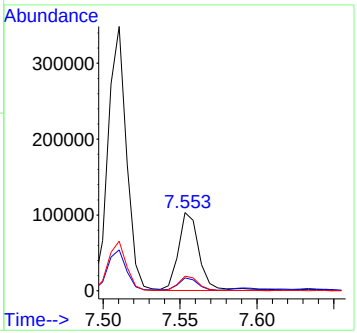


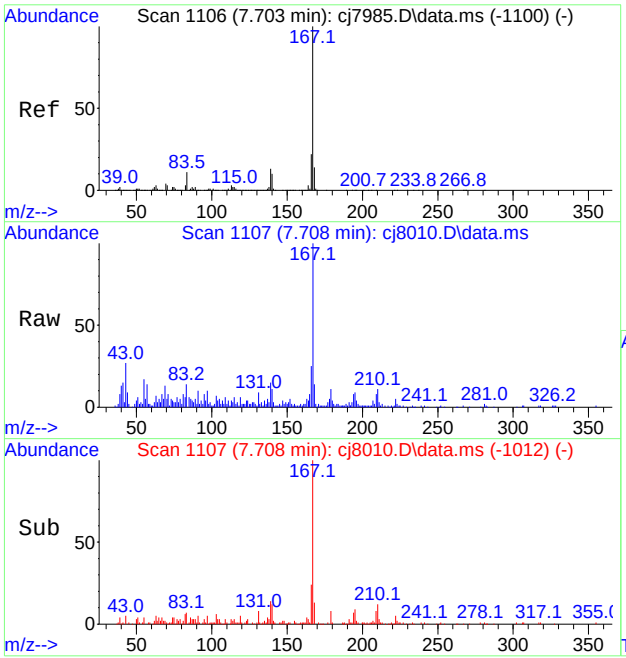


#79
Anthracene
Concen: 2.6474 ppm
RT: 7.553 min Scan# 1078
Delta R.T. 0.000 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:178 Resp: 97936

Ion	Ratio	Lower	Upper
178	100		
179	15.3	0.0	45.9
176	18.6	0.0	48.8

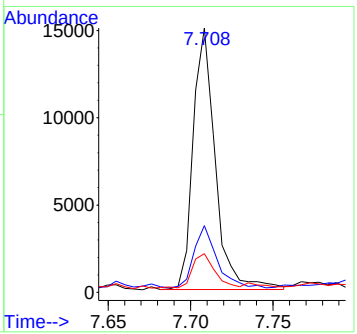


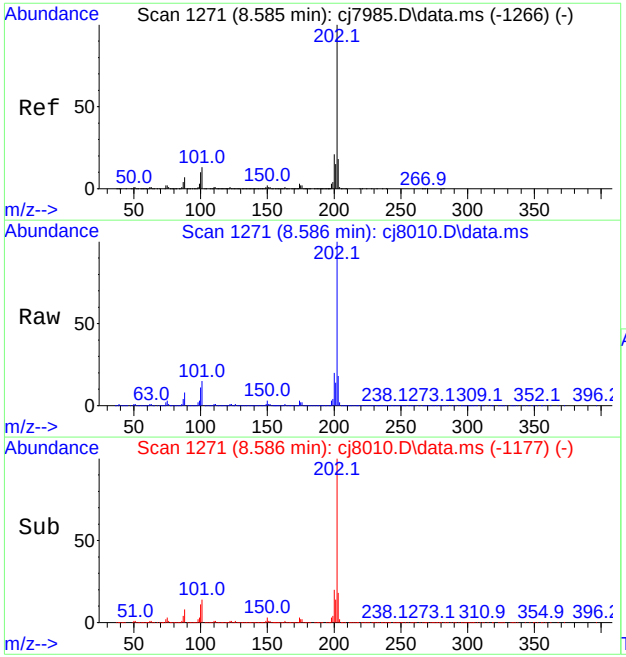


#80
Carbazole
Concen: 0.4067 ppm
RT: 7.708 min Scan# 1107
Delta R.T. 0.006 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:167 Resp: 14020

Ion	Ratio	Lower	Upper
167	100		
166	23.1	0.0	51.7
139	12.9	0.0	42.8

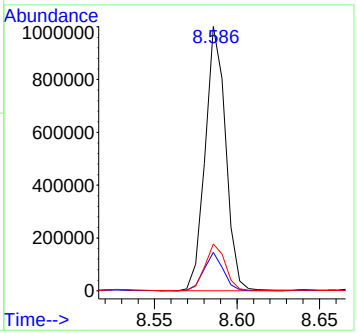


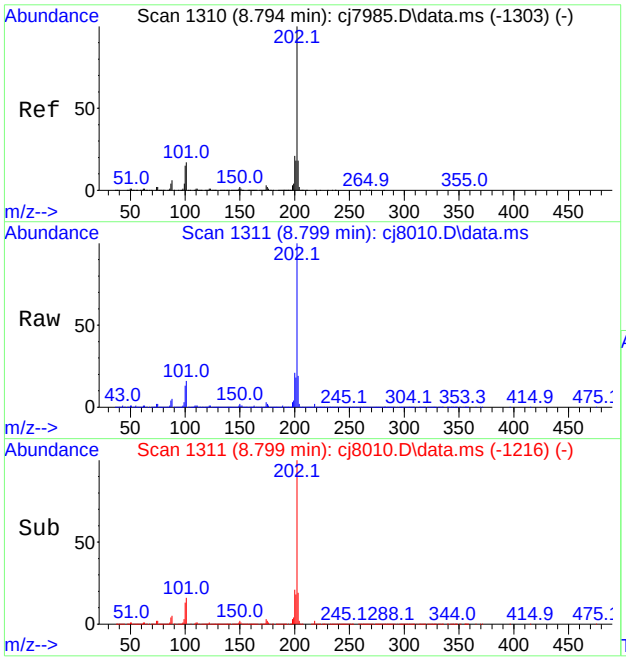


#82
Fluoranthene
Concen: 21.5547 ppm
RT: 8.586 min Scan# 1271
Delta R.T. 0.000 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:202 Resp: 862144

Ion	Ratio	Lower	Upper
202	100		
101	14.5	0.0	42.9
203	17.6	0.0	47.5

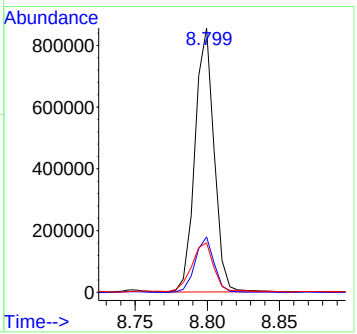


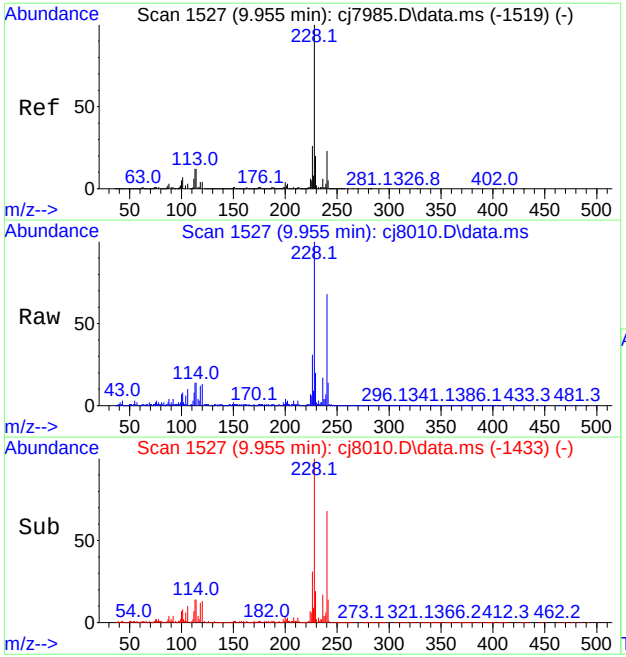


#86
Pyrene
Concen: 19.8922 ppm
RT: 8.799 min Scan# 1311
Delta R.T. 0.006 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:202 Resp: 784441

Ion	Ratio	Lower	Upper
202	100		
200	21.0	0.0	51.0
203	18.5	0.0	48.5

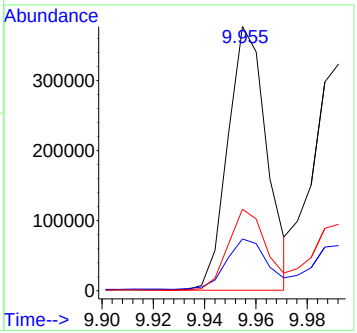


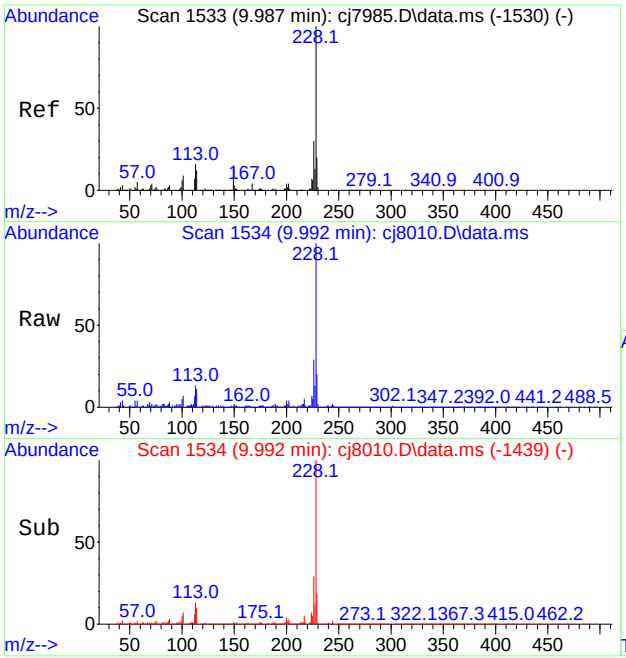


#89
Benzo[a]anthracene
Concen: 10.6964 ppm
RT: 9.955 min Scan# 1527
Delta R.T. 0.000 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:228 Resp: 398788

Ion	Ratio	Lower	Upper
228	100		
229	18.8	0.0	49.9
226	30.5	0.0	56.5

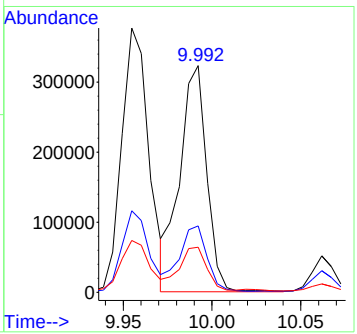


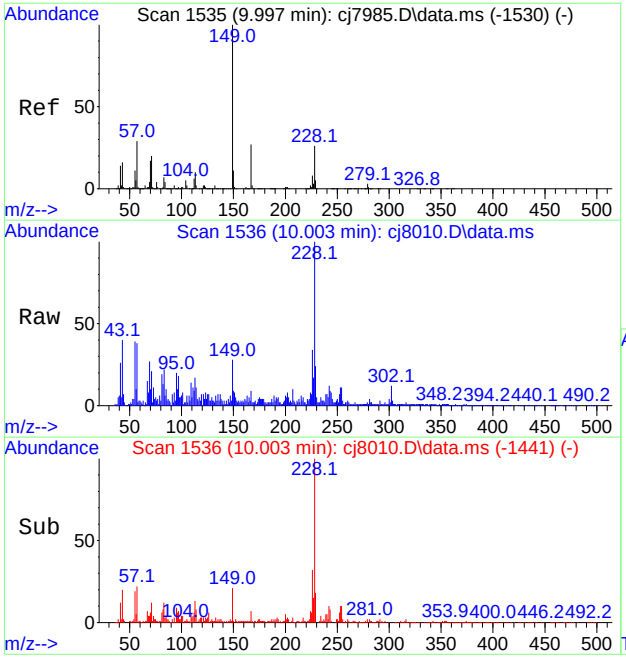


#91
Chrysene
Concen: 10.0244 ppm
RT: 9.992 min Scan# 1534
Delta R.T. 0.006 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:228 Resp: 344819

Ion	Ratio	Lower	Upper
228	100		
226	28.5	0.3	60.3
229	19.0	0.0	50.3

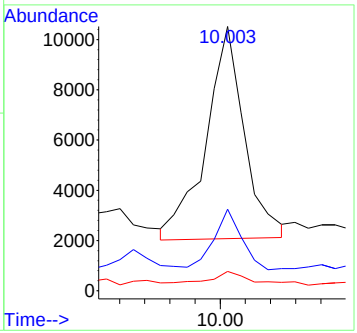


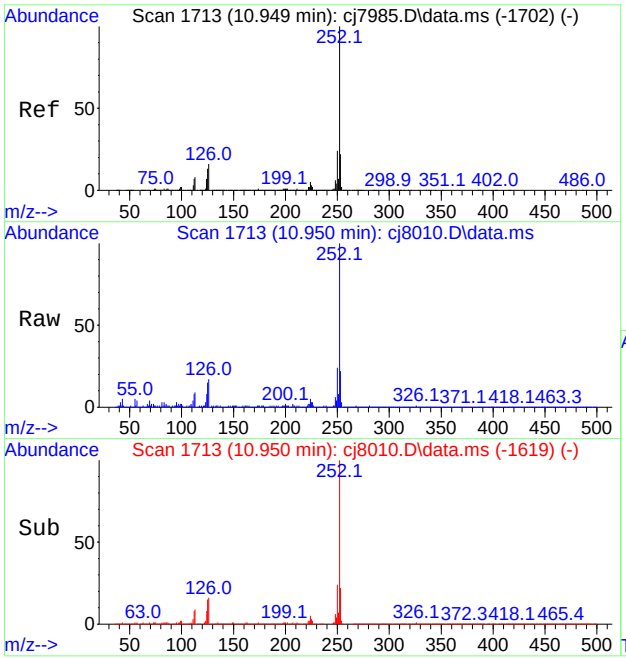


#92
bis(2-Ethylhexyl)phthalate
Concen: 0.3433 ppm m
RT: 10.003 min Scan# 1536
Delta R.T. 0.006 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:149 Resp: 8946

Ion	Ratio	Lower	Upper
149	100		
167	30.9	0.0	56.9
279	7.3	0.0	33.4

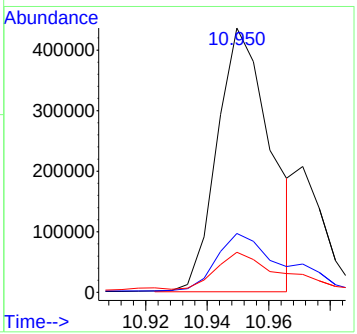


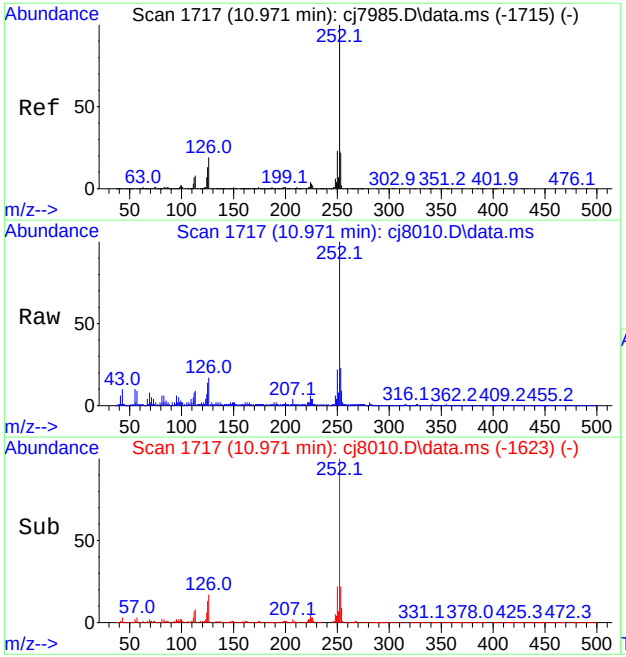


#95
Benzo[b]fluoranthene
Concen: 14.8566 ppm m
RT: 10.950 min Scan# 1713
Delta R.T. 0.000 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:252 Resp: 524242

Ion	Ratio	Lower	Upper
252	100		
253	22.2	0.0	52.5
125	15.2	0.0	42.4

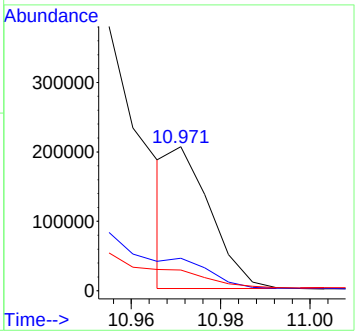


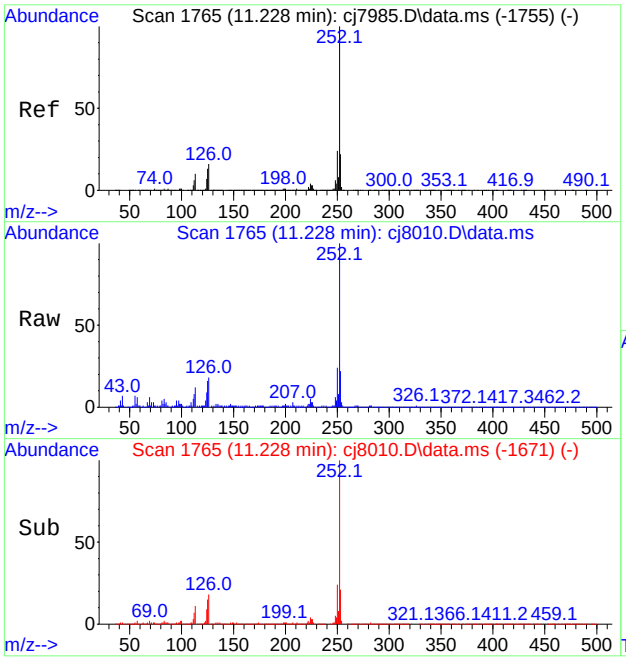


#96
Benzo[k]fluoranthene
Concen: 4.0344 ppm m
RT: 10.971 min Scan# 1717
Delta R.T. 0.000 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:252 Resp: 128102

Ion	Ratio	Lower	Upper
252	100		
253	22.5	0.0	51.7
125	14.4	0.0	43.5

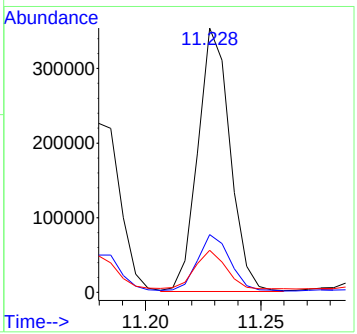


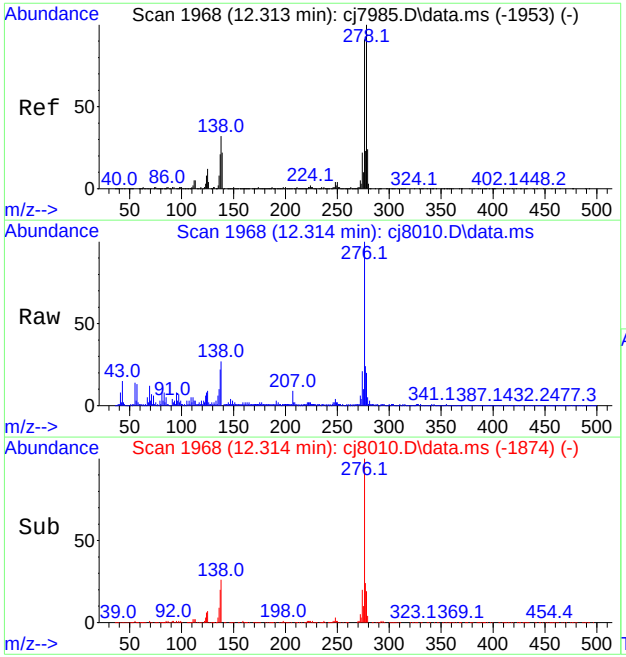


#97
Benzo[a]pyrene
Concen: 11.7361 ppm
RT: 11.228 min Scan# 1765
Delta R.T. 0.000 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:252 Resp: 342828

Ion	Ratio	Lower	Upper
252	100		
253	21.4	0.0	52.1
125	14.5	0.0	42.5

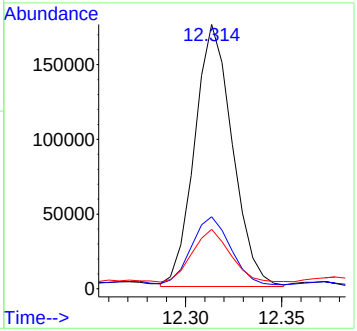


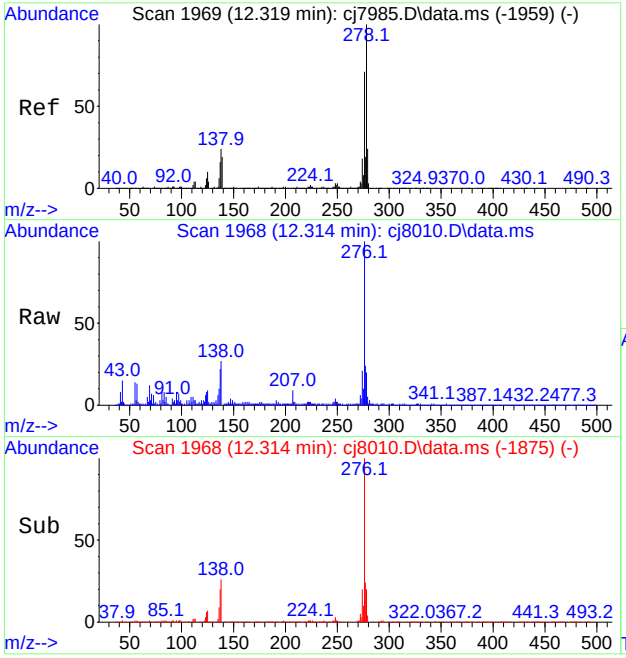


#98
Indeno[1,2,3-cd]pyrene
Concen: 6.8092 ppm
RT: 12.314 min Scan# 1968
Delta R.T. 0.000 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:276 Resp: 240461

Ion	Ratio	Lower	Upper
276	100		
138	25.9	5.2	65.2
137	20.1	0.0	53.3

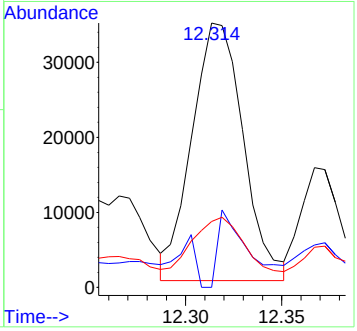


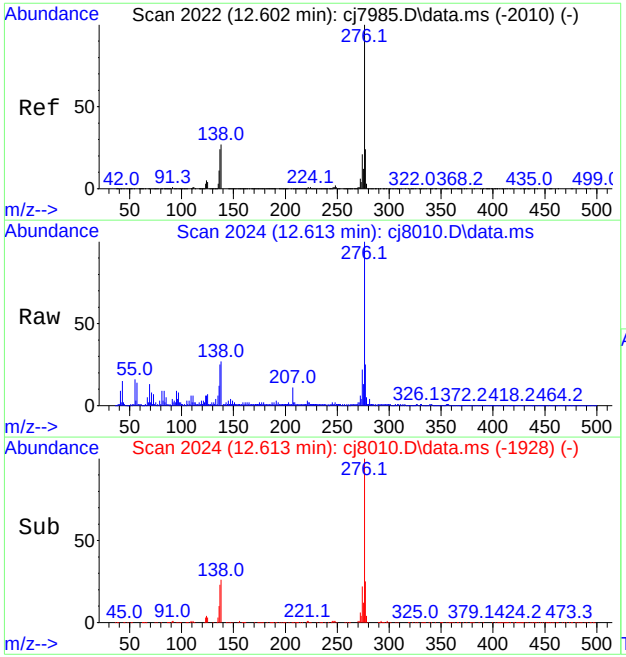


#100
Dibenz[a,h]anthracene
Concen: 2.2659 ppm
RT: 12.314 min Scan# 1968
Delta R.T. -0.005 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:278 Resp: 63938

Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	48.9
279	20.9	0.0	53.7

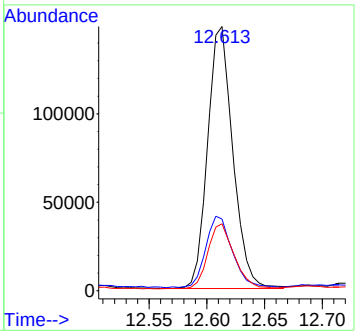




#102
Benzo[g,h,i]perylene
Concen: 8.2353 ppm
RT: 12.613 min Scan# 2024
Delta R.T. 0.011 min
Lab File: cj8010.D
Acq: 01 Jul 2024 07:57 pm

Tgt Ion:276 Resp: 226001

Ion	Ratio	Lower	Upper
276	100		
138	26.1	0.0	57.0
277	24.6	0.0	53.6



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj8010.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.173	442	446	452	rBV	481704	537107	11.58%	0.850%
2	4.216	452	454	465	rVB	53491	66705	1.44%	0.106%
3	4.360	474	481	500	rBV	2751459	2336116	50.39%	3.695%
4	4.718	541	548	555	rBV	998857	751011	16.20%	1.188%
5	5.162	626	631	644	rBV	4724575	3051705	65.82%	4.827%
6	5.842	754	758	764	rBV	2487382	1588341	34.26%	2.512%
7	6.211	820	827	833	rBV	151294	122191	2.64%	0.193%
8	6.307	841	845	857	rVB	4556516	3634868	78.40%	5.750%
9	6.719	920	922	927	rVB	76585	68228	1.47%	0.108%
10	6.911	953	958	962	rBV	560379	481490	10.38%	0.762%
11	7.398	1045	1049	1058	rVB3	55723	89525	1.93%	0.142%
12	7.489	1058	1066	1075	rBV2	4742043	4592892	99.06%	7.265%
13	7.553	1075	1078	1082	rVB	286591	247457	5.34%	0.391%
14	7.708	1101	1107	1112	rBV2	57973	107406	2.32%	0.170%
15	7.773	1117	1119	1129	rVB5	43219	67908	1.46%	0.107%
16	7.933	1145	1149	1151	rBV	161847	133383	2.88%	0.211%
17	7.960	1151	1154	1157	rVB	204396	163501	3.53%	0.259%
18	7.992	1157	1160	1164	rBV2	139305	184306	3.98%	0.292%
19	8.029	1164	1167	1179	rVB	333484	432408	9.33%	0.684%
20	8.206	1193	1200	1204	rBV	118738	124703	2.69%	0.197%
21	8.441	1240	1244	1247	rBV	139814	140068	3.02%	0.222%
22	8.527	1256	1260	1267	rVB3	135757	183178	3.95%	0.290%
23	8.586	1267	1271	1278	rBV	2395083	2070485	44.66%	3.275%
24	8.676	1285	1288	1294	rVB	88101	89076	1.92%	0.141%
25	8.730	1294	1298	1305	rBV3	83537	172536	3.72%	0.273%
26	8.799	1305	1311	1318	rBV	2031823	2102358	45.34%	3.325%
27	8.869	1318	1324	1328	rVB2	101891	132447	2.86%	0.210%
28	8.923	1330	1334	1336	rBV	101784	86366	1.86%	0.137%
29	8.955	1336	1340	1346	rVB	1838410	1624129	35.03%	2.569%
30	9.019	1346	1352	1356	rBV3	135148	212599	4.59%	0.336%
31	9.120	1361	1371	1375	rVB	270578	414898	8.95%	0.656%
32	9.185	1375	1383	1386	rBV2	204852	238432	5.14%	0.377%
33	9.217	1386	1389	1398	rBV2	326397	415472	8.96%	0.657%
34	9.302	1403	1405	1408	rBV	108661	97826	2.11%	0.155%
35	9.334	1408	1411	1415	rVB2	115364	105245	2.27%	0.166%
36	9.431	1423	1429	1434	rBV7	41021	69618	1.50%	0.110%
37	9.623	1462	1465	1469	rBV	101836	89331	1.93%	0.141%
38	9.671	1469	1474	1478	rBV2	111533	107249	2.31%	0.170%
39	9.719	1478	1483	1485	rBV	138964	194352	4.19%	0.307%
40	9.741	1485	1487	1489	rVB	108453	84774	1.83%	0.134%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	9.762	1489	1491	1495	rVB	147177	122481	2.64%	0.194%
42	9.826	1499	1503	1507	rBV	103528	107723	2.32%	0.170%
43	9.891	1510	1515	1521	rBV2	382657	573143	12.36%	0.907%
44	9.966	1523	1529	1532	rBV2	4067964	4636405	100.00%	7.334%
45	9.987	1532	1533	1543	rVB	887281	806044	17.39%	1.275%
46	10.062	1543	1547	1555	rBV	207109	255187	5.50%	0.404%
47	10.121	1555	1558	1564	rBV3	58778	81719	1.76%	0.129%
48	10.174	1564	1568	1570	rBV	86637	93169	2.01%	0.147%
49	10.212	1570	1575	1579	rBV4	62463	111597	2.41%	0.177%
50	10.313	1591	1594	1597	rBV	175368	186063	4.01%	0.294%
51	10.351	1597	1601	1605	rBV	186487	193543	4.17%	0.306%
52	10.383	1605	1607	1610	rVB2	81940	67473	1.46%	0.107%
53	10.468	1620	1623	1625	rBV2	65340	78091	1.68%	0.124%
54	10.500	1625	1629	1631	rBV2	200479	175951	3.79%	0.278%
55	10.527	1631	1634	1643	rVB4	451760	687341	14.82%	1.087%
56	10.688	1659	1664	1668	rVB8	59973	97045	2.09%	0.154%
57	10.757	1668	1677	1680	rBV8	64900	163598	3.53%	0.259%
58	10.795	1680	1684	1686	rBV	90832	84342	1.82%	0.133%
59	10.821	1686	1689	1692	rBV	87465	95919	2.07%	0.152%
60	10.848	1692	1694	1701	rVB2	100417	104509	2.25%	0.165%
61	10.918	1702	1707	1710	rBV	640914	599072	12.92%	0.948%
62	10.950	1710	1713	1722	rVV	1145933	1775798	38.30%	2.809%
63	11.035	1722	1729	1733	rVV2	210492	278012	6.00%	0.440%
64	11.083	1733	1738	1741	rVV	711158	733140	15.81%	1.160%
65	11.115	1741	1744	1752	rVV4	781416	1455771	31.40%	2.303%
66	11.180	1752	1756	1762	rVV	784684	1178382	25.42%	1.864%
67	11.228	1762	1765	1769	rVV	1004218	1080170	23.30%	1.709%
68	11.276	1769	1774	1786	rVV	3371914	4028673	86.89%	6.372%
69	11.362	1786	1790	1797	rVV6	168945	411047	8.87%	0.650%
70	11.415	1797	1800	1810	rVV5	152374	534918	11.54%	0.846%
71	11.511	1810	1818	1828	rVV	1271008	1873024	40.40%	2.963%
72	11.597	1828	1834	1836	rVV5	113309	249382	5.38%	0.394%
73	11.629	1836	1840	1843	rVV6	124532	246312	5.31%	0.390%
74	11.677	1843	1849	1854	rVV	795550	981458	21.17%	1.552%
75	11.736	1854	1860	1868	rVV3	350233	924535	19.94%	1.462%
76	11.795	1868	1871	1875	rVV4	90038	139659	3.01%	0.221%
77	11.843	1875	1880	1890	rVV5	152981	329826	7.11%	0.522%
78	11.923	1891	1895	1900	rVB7	73987	135544	2.92%	0.214%
79	12.110	1925	1930	1936	rVB6	82887	144543	3.12%	0.229%
80	12.212	1937	1949	1955	rBV4	447070	754049	16.26%	1.193%
81	12.314	1962	1968	1975	rBV	548178	909392	19.61%	1.438%
82	12.378	1975	1980	1984	rVV3	528012	777535	16.77%	1.230%
83	12.431	1984	1990	1995	rVV5	227162	552169	11.91%	0.873%
84	12.474	1995	1998	2002	rVV	102764	180976	3.90%	0.286%
85	12.533	2002	2009	2016	rVB5	230157	482101	10.40%	0.763%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.608	2016	2023	2033	rBV	395597	748429	16.14%	1.184%
87	12.704	2035	2041	2050	rVV4	438996	1008028	21.74%	1.594%
88	12.779	2050	2055	2068	rVB3	184471	437833	9.44%	0.693%
89	12.929	2069	2083	2090	rVB3	133226	398487	8.59%	0.630%
90	13.009	2090	2098	2107	rVB7	164999	367887	7.93%	0.582%
91	13.137	2113	2122	2129	rBV4	255927	526764	11.36%	0.833%
92	13.212	2129	2136	2143	rVB4	54928	172687	3.72%	0.273%
93	13.335	2151	2159	2165	rBV2	303089	569678	12.29%	0.901%
94	13.399	2166	2171	2187	rVB2	78399	322042	6.95%	0.509%
95	13.565	2188	2202	2211	rBV4	115533	370467	7.99%	0.586%
96	13.699	2221	2227	2239	rVB4	36517	113097	2.44%	0.179%
97	13.891	2253	2263	2270	rBV4	29468	90868	1.96%	0.144%
98	13.961	2270	2276	2284	rVB9	75043	169321	3.65%	0.268%
99	14.105	2286	2303	2318	rVB3	174044	683715	14.75%	1.081%
100	14.234	2318	2327	2335	rBV	115151	351841	7.59%	0.557%

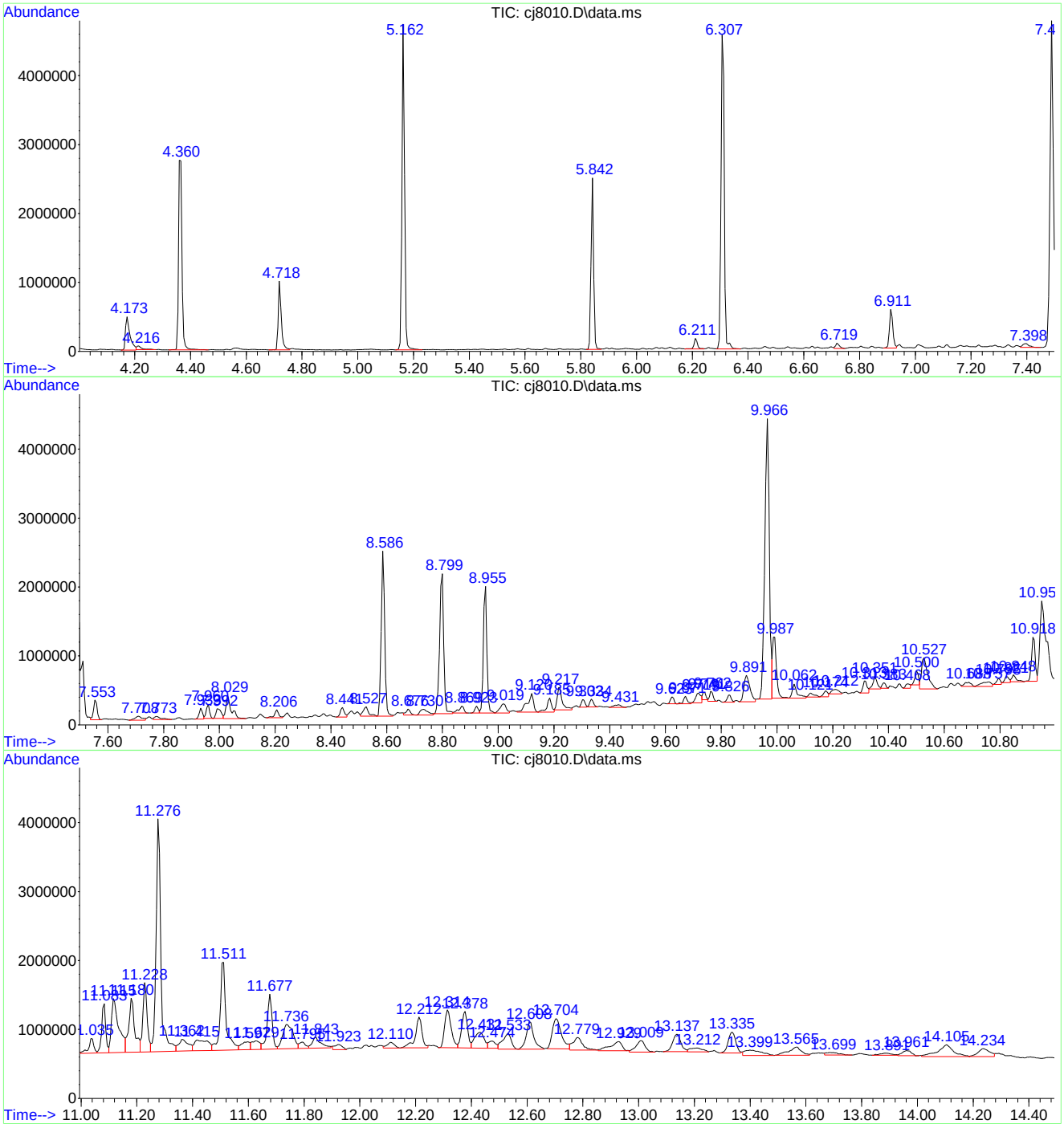
Sum of corrected areas: 63219665

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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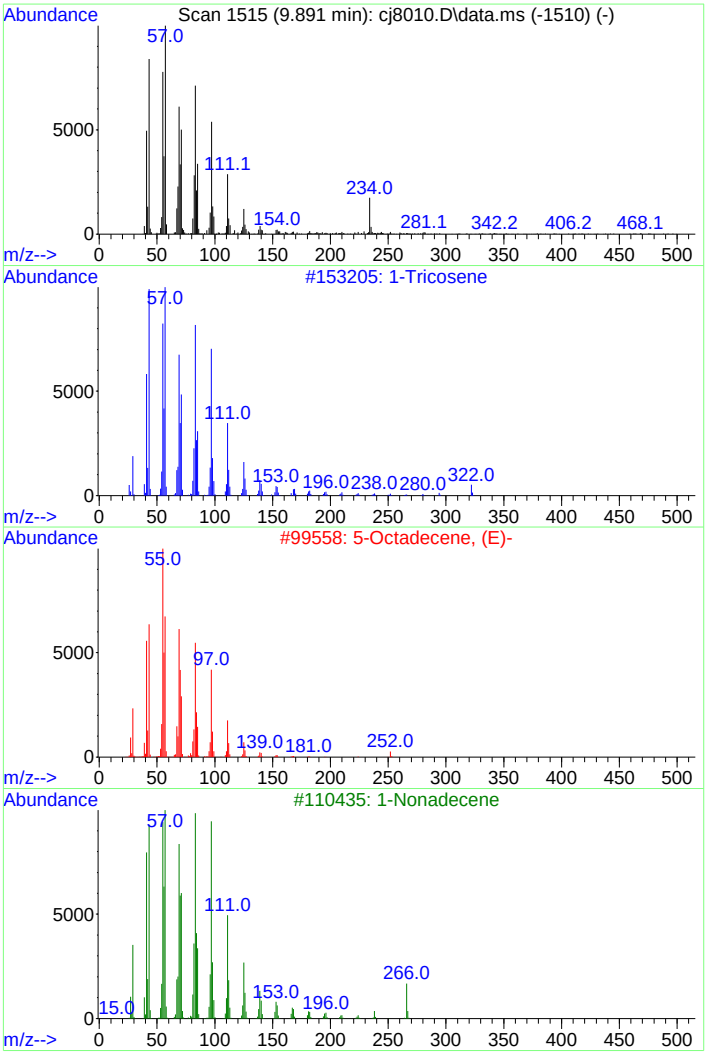
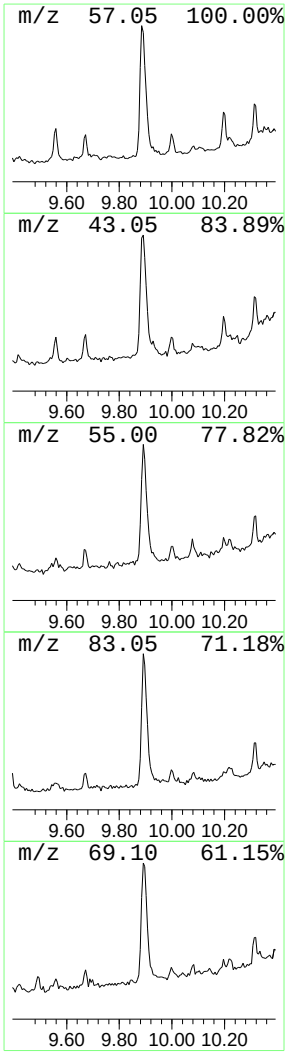
Peak Number 1 Alkene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.891	4.94 ppm	573143	Chrysene-d12	9.966

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Tricosene	322	C23H46	018835-32-0	98
2	5-Octadecene, (E)-	252	C18H36	007206-21-5	95
3	1-Nonadecene	266	C19H38	018435-45-5	93
4	9-Tricosene, (Z)-	322	C23H46	027519-02-4	90
5	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	1000351-82-9	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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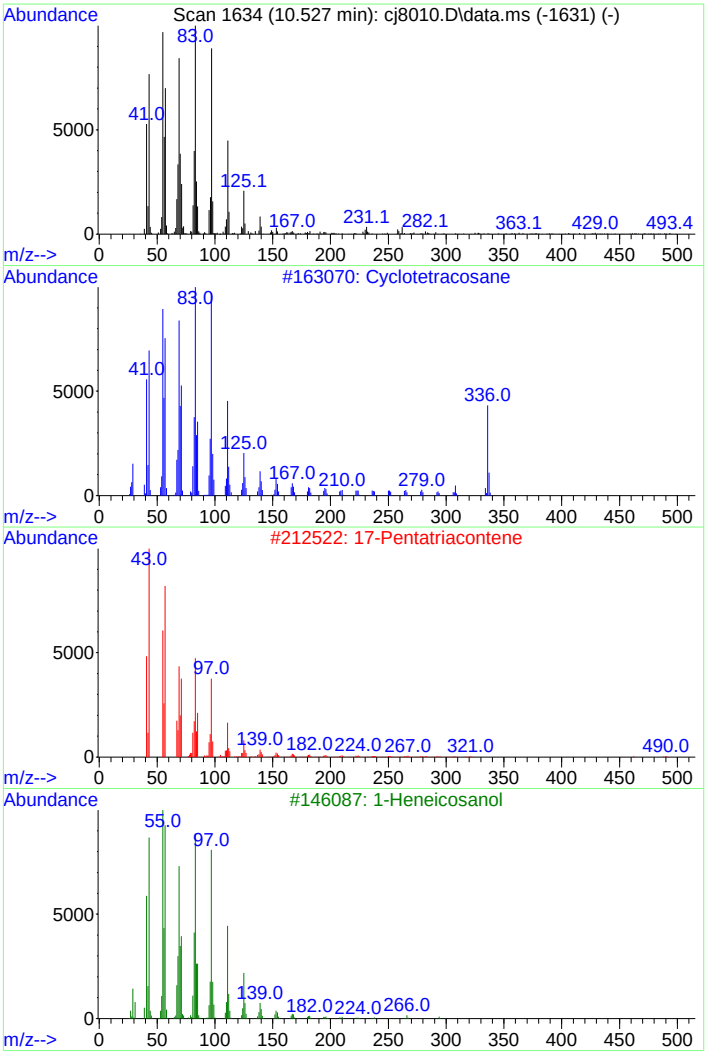
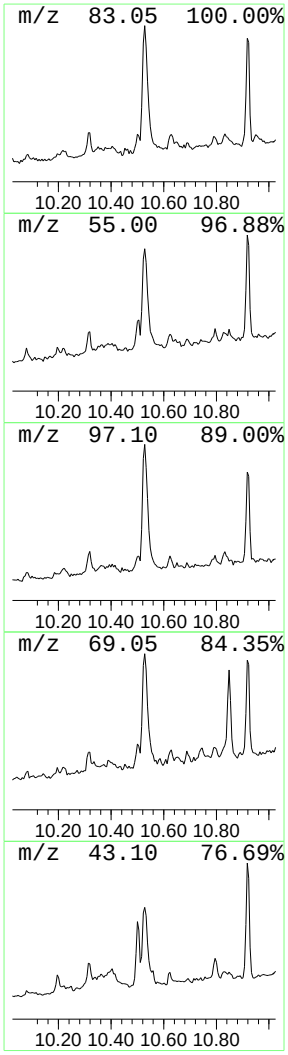
Peak Number 2 Unknown alcohol Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.527	5.93 ppm	687341	Chrysene-d12a	9.966

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetracosane	336	C24H48	000297-03-0	94
2	17-Pentatriacontene	491	C35H70	006971-40-0	87
3	1-Heneicosanol	312	C21H44O	015594-90-8	83
4	Behenic alcohol	326	C22H46O	000661-19-8	74
5	1-Hexadecanol	242	C16H34O	036653-82-4	68





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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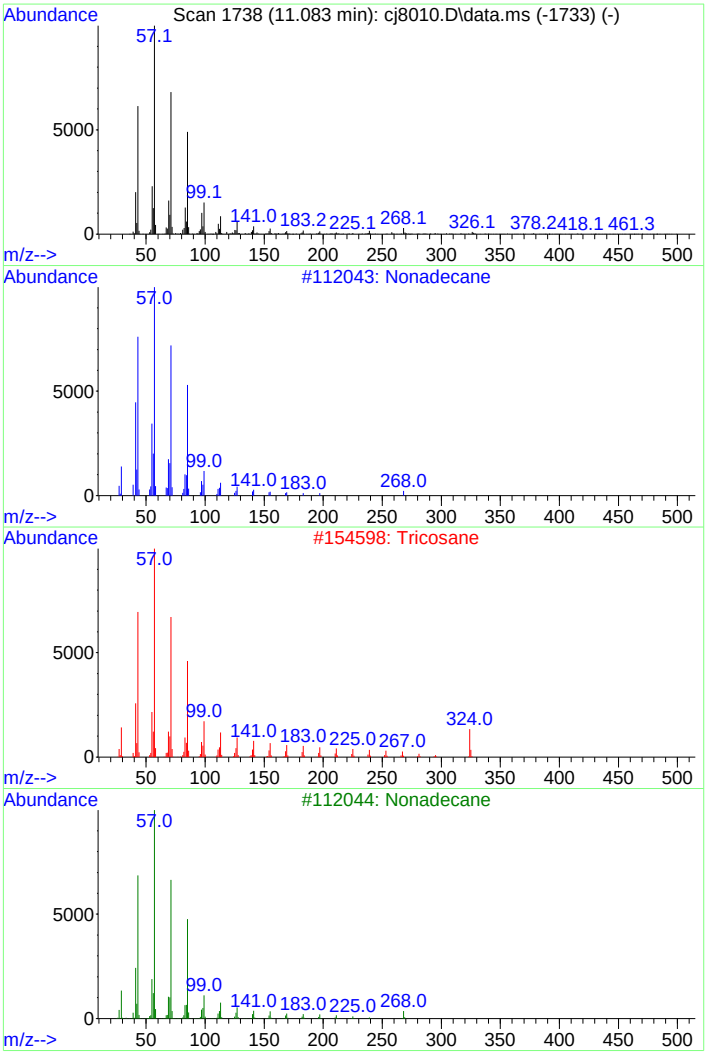
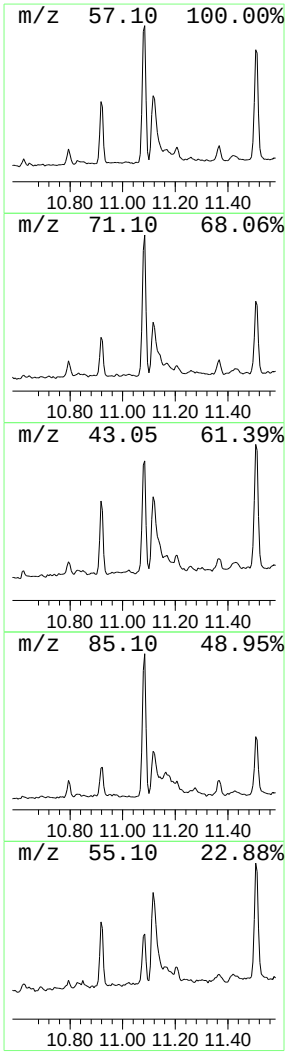
Peak Number 3 Alkane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.083	7.28 ppm	733140	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	94
2	Tricosane	324	C23H48	000638-67-5	93
3	Nonadecane	268	C19H40	000629-92-5	93
4	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	91
5	Heneicosane	296	C21H44	000629-94-7	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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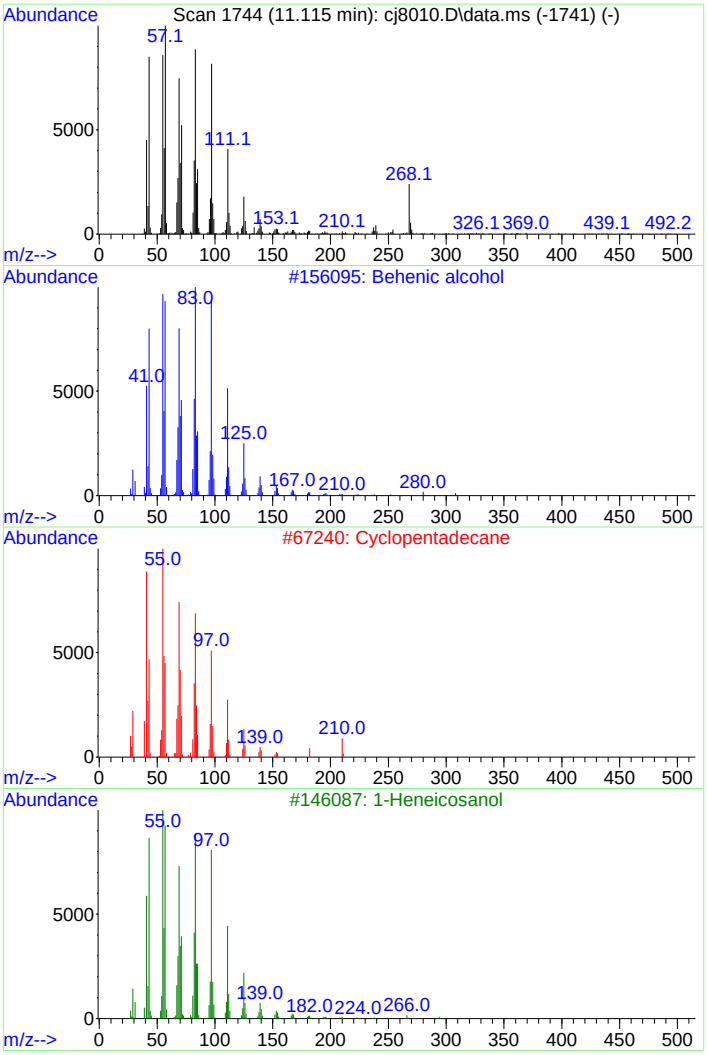
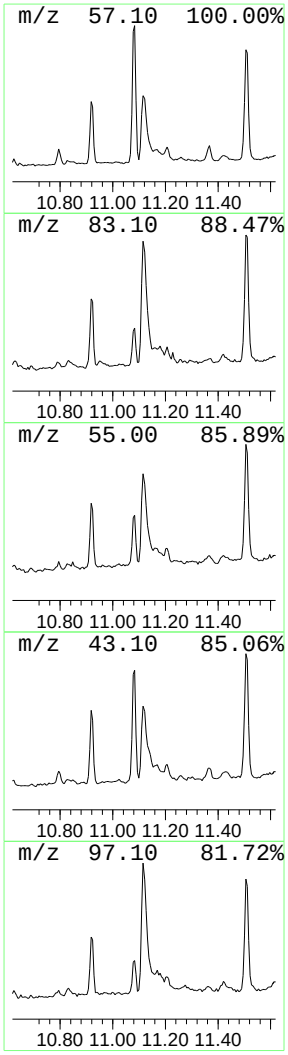
Peak Number 4 Unknown alcohol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.116	14.45 ppm	1455770	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Behenic alcohol	326	C22H46O	000661-19-8	94
2	Cyclopentadecane	210	C15H30	000295-48-7	93
3	1-Heneicosanol	312	C21H44O	015594-90-8	93
4	1-Heptacosanol	396	C27H56O	002004-39-9	93
5	n-Tetracosanol-1	354	C24H50O	000506-51-4	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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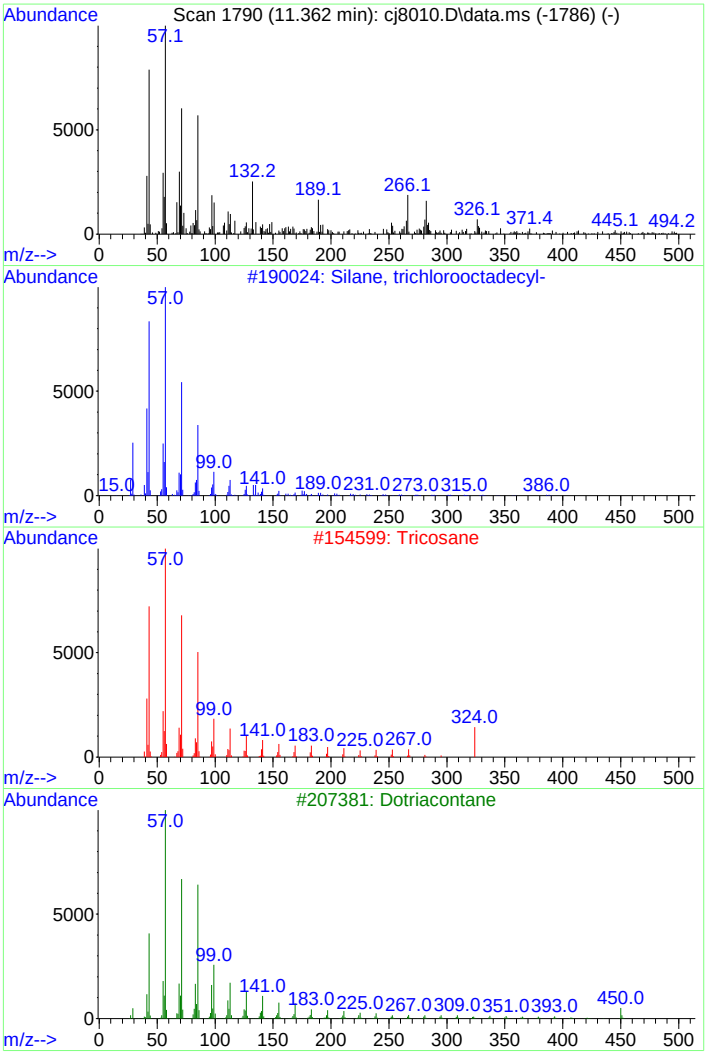
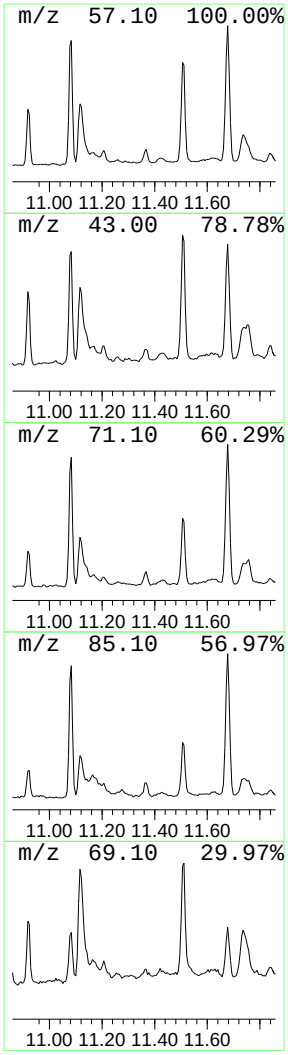
Peak Number 5 Alkane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.361	4.08 ppm	411047	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Silane, trichlorooctadecyl-	386	C18H37Cl3Si	000112-04-9	62
2	Tricosane	324	C23H48	000638-67-5	60
3	Dotriacontane	451	C32H66	000544-85-4	60
4	Tetracosane	338	C24H50	000646-31-1	53
5	Heneicosane	296	C21H44	000629-94-7	53





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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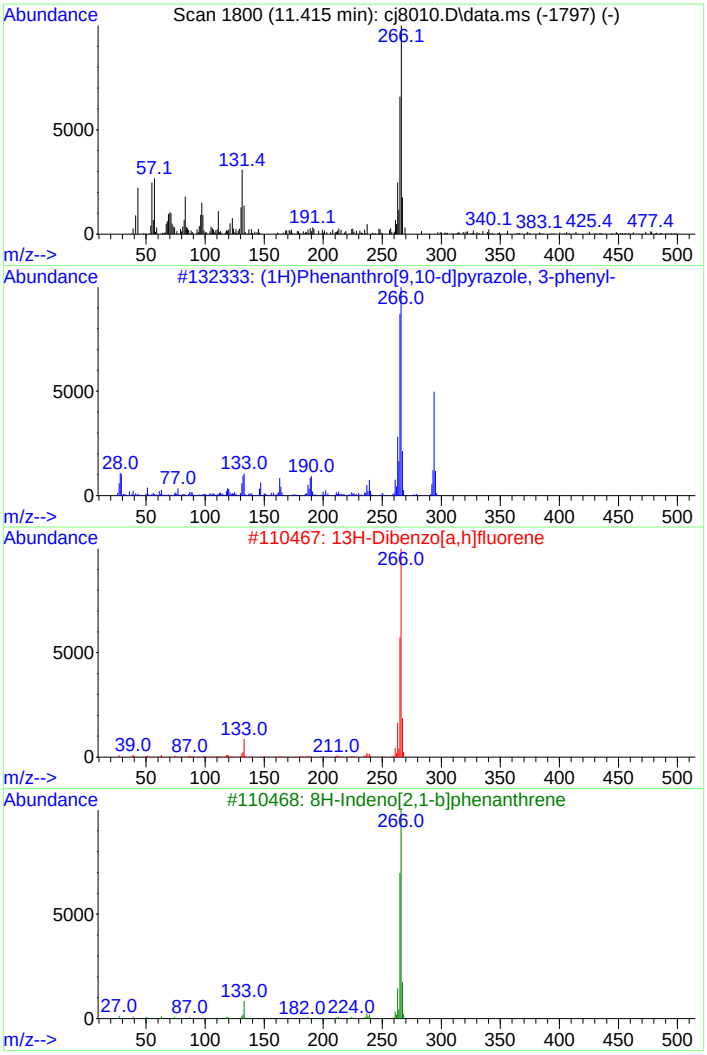
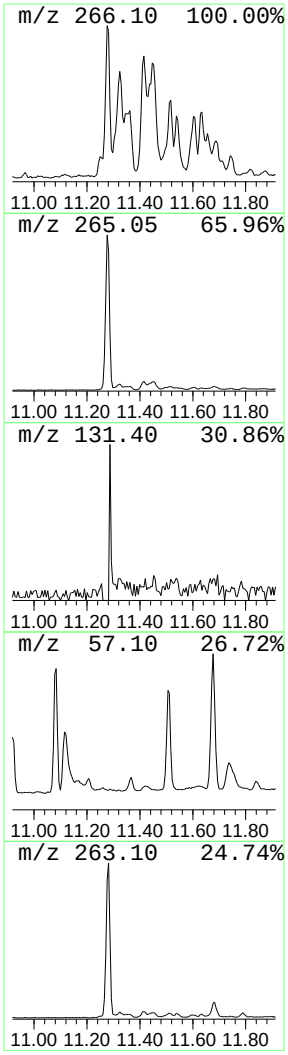
Peak Number 6 Unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.415	5.31 ppm	534918	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1H)Phenanthro[9,10-d]pyrazole, ...	294	C21H14N2	037944-54-0	80
2	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	70
3	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	59
4	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	58
5	4,6-Dimethyl-4'-hydroxy-2-benzyl...	266	C17H14O3	002567-73-9	53





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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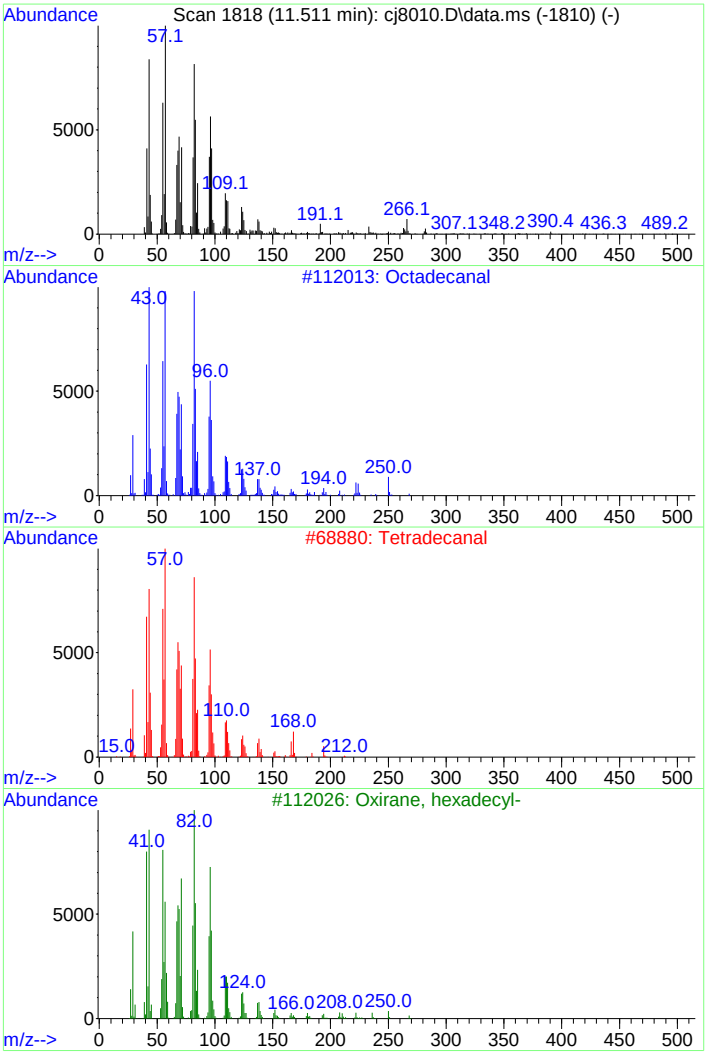
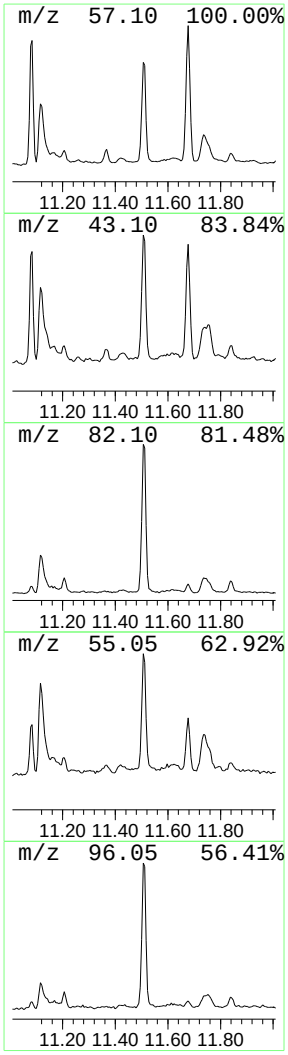
Peak Number 7 Unknown alcohol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.511	18.60 ppm	1873020	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanal	268	C18H36O	000638-66-4	91
2	Tetradecanal	212	C14H28O	000124-25-4	91
3	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
5	Octadecanal	268	C18H36O	000638-66-4	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

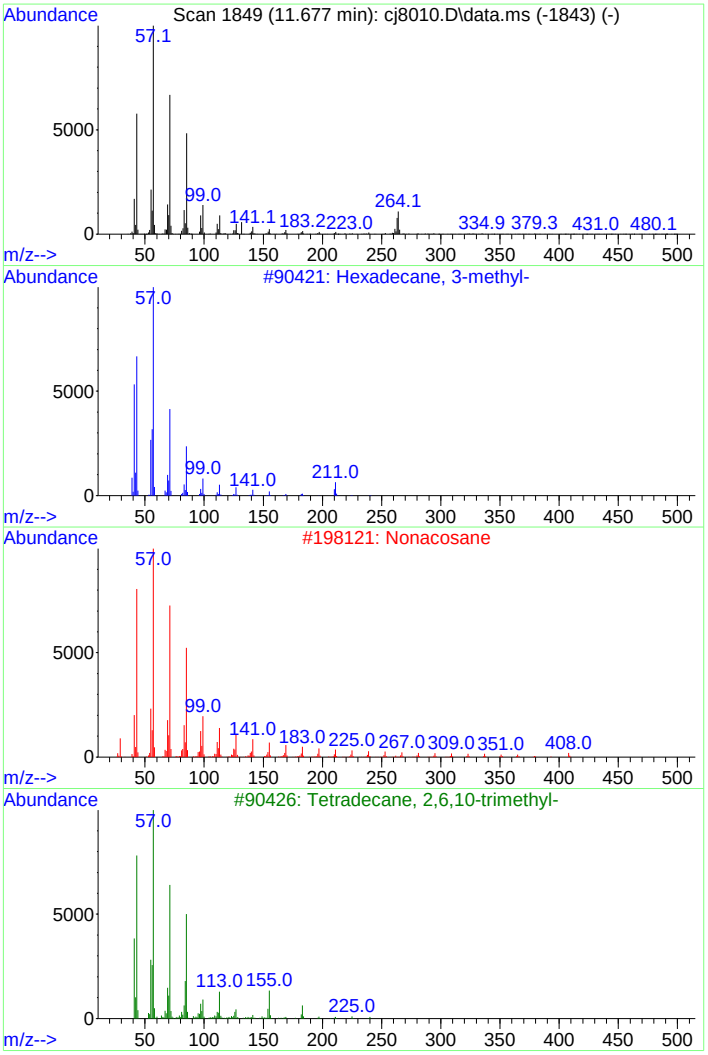
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

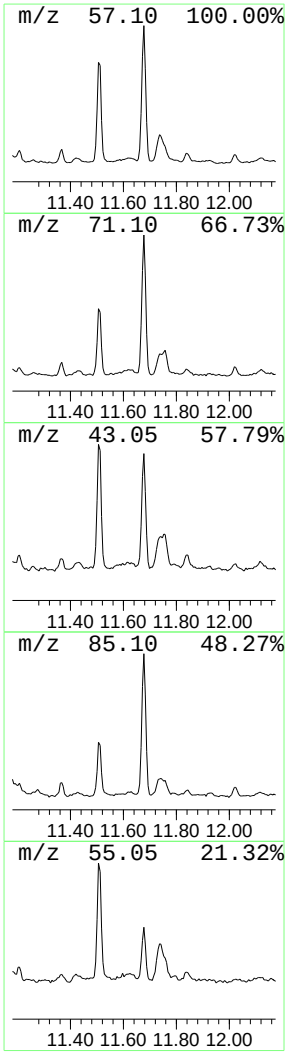
****

Peak Number 8 Alkane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.677	9.74 ppm	981458	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane, 3-methyl-	240	C17H36	006418-43-5	90
2	Nonacosane	408	C29H60	000630-03-5	81
3	Tetradecane, 2,6,10-trimethyl-	240	C17H36	014905-56-7	74
4	Octacosane	394	C28H58	000630-02-4	74
5	Heptadecane	240	C17H36	000629-78-7	74





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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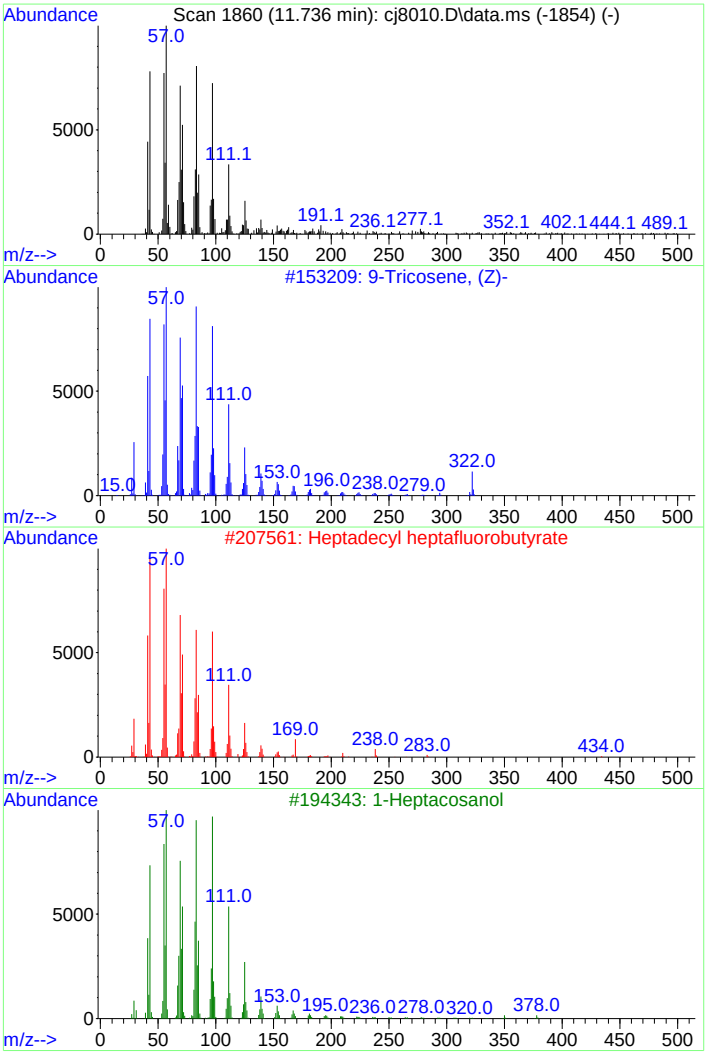
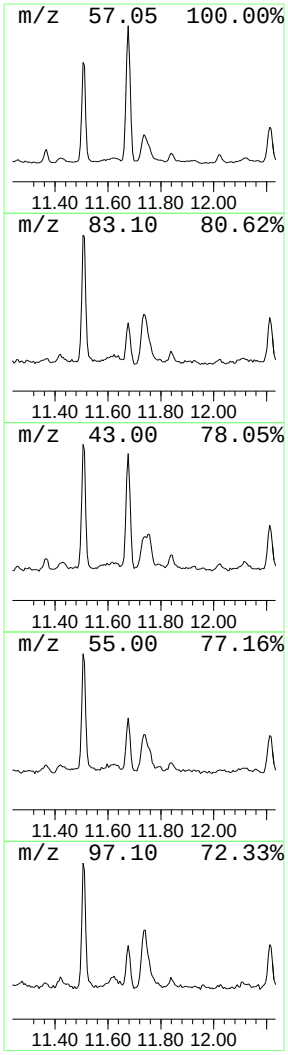
Peak Number 9 Unknown alcohol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.736	9.18 ppm	924535	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Tricosene, (Z)-	322	C23H46	027519-02-4	98
2	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	1000351-82-9	94
3	1-Heptacosanol	396	C27H56O	002004-39-9	91
4	Behenic alcohol	326	C22H46O	000661-19-8	91
5	n-Tetracosanol-1	354	C24H50O	000506-51-4	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

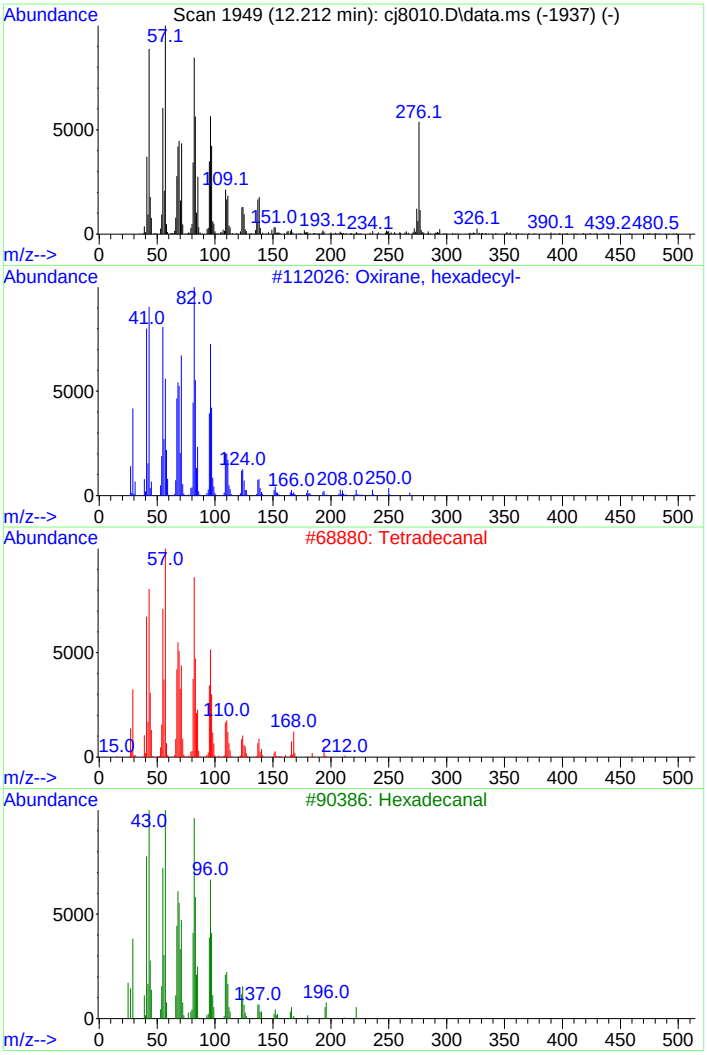
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

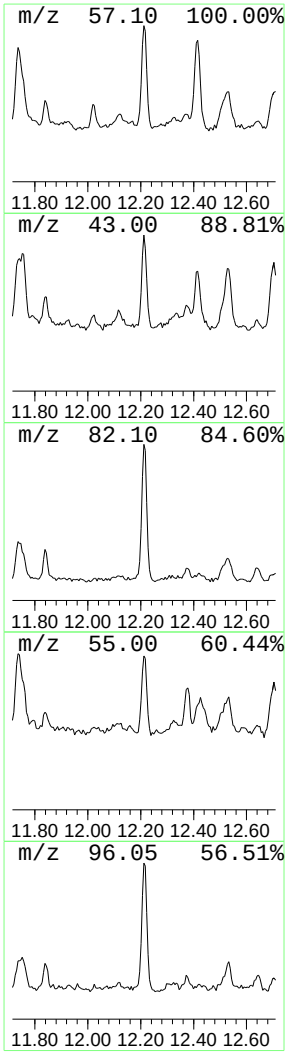
****

Peak Number 10 Unknown alcohol Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.212	7.49 ppm	754049	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	76
2	Tetradecanal	212	C14H28O	000124-25-4	74
3	Hexadecanal	240	C16H32O	000629-80-1	64
4	14-Octadecenal	266	C18H34O	056554-89-3	59
5	18-Nonadecen-1-ol	282	C19H38O	1000142-89-2	58





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

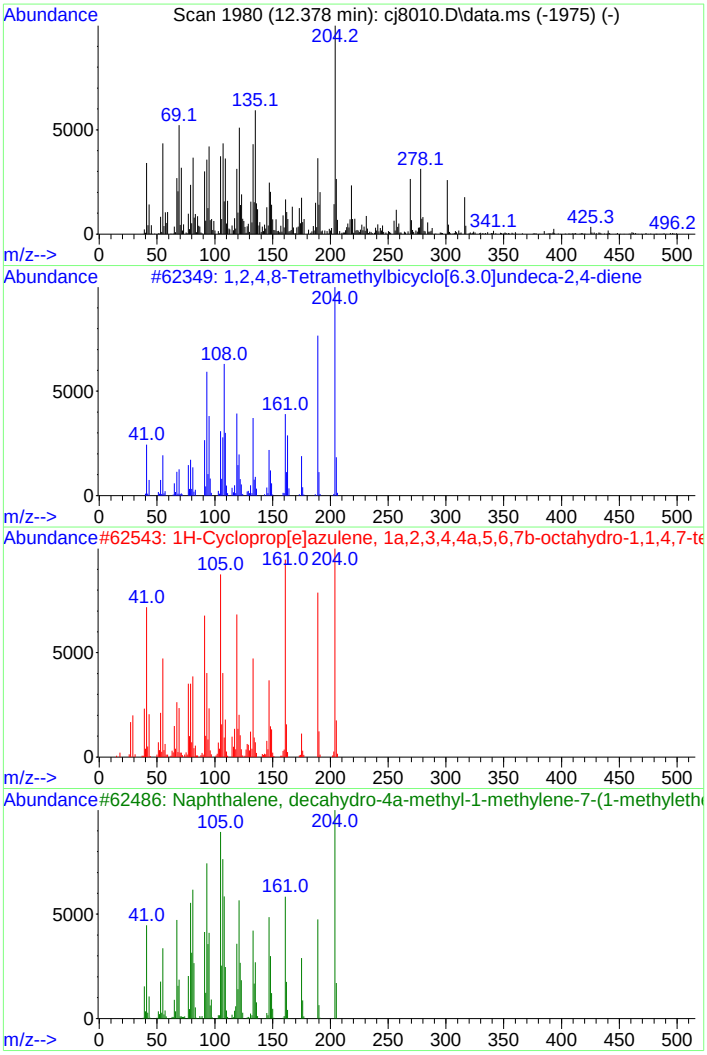
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

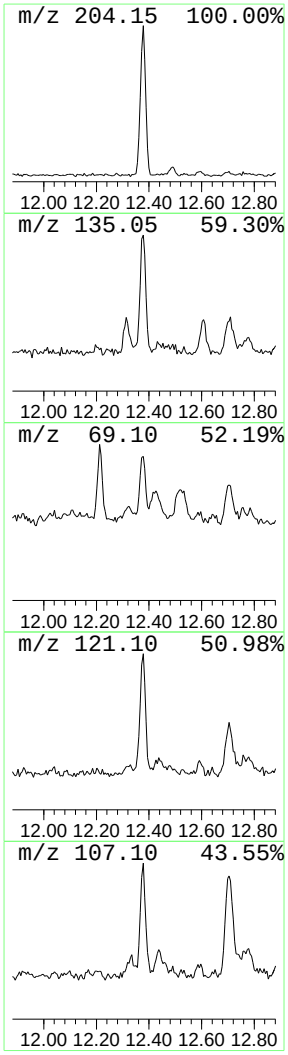
****

Peak Number 11 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.378	7.72 ppm	777535	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
2	1H-Cycloprop[e]azulene, 1a,2,3,4...	204	C15H24	000489-40-7	43
3	Naphthalene, decahydro-4a-methyl...	204	C15H24	017066-67-0	43
4	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1000140-07-7	43
5	Guaia-3,9-diene	204	C15H24	000489-83-8	43





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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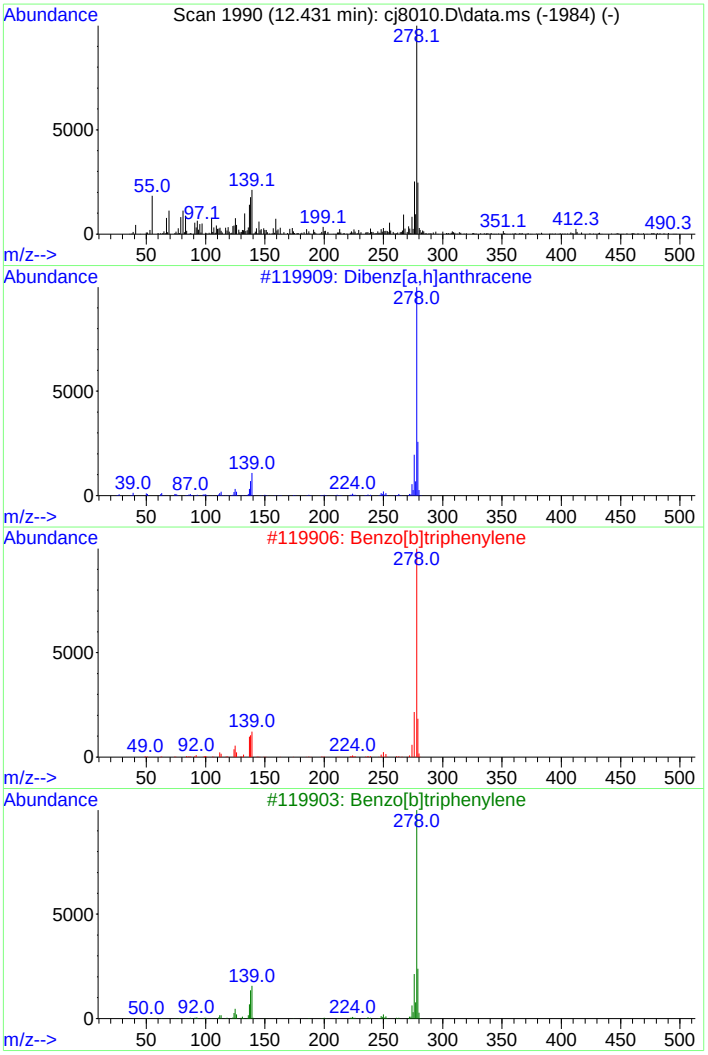
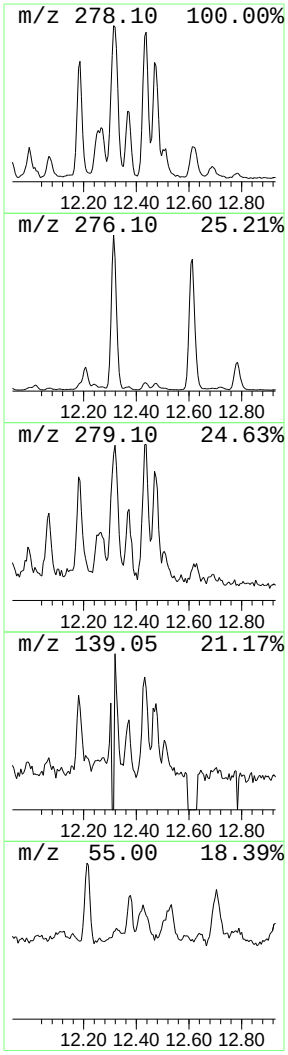
Peak Number 12 Unknown PAH substance Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.431	5.48 ppm	552169	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	95
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
4	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
5	Pentacene	278	C22H14	000135-48-8	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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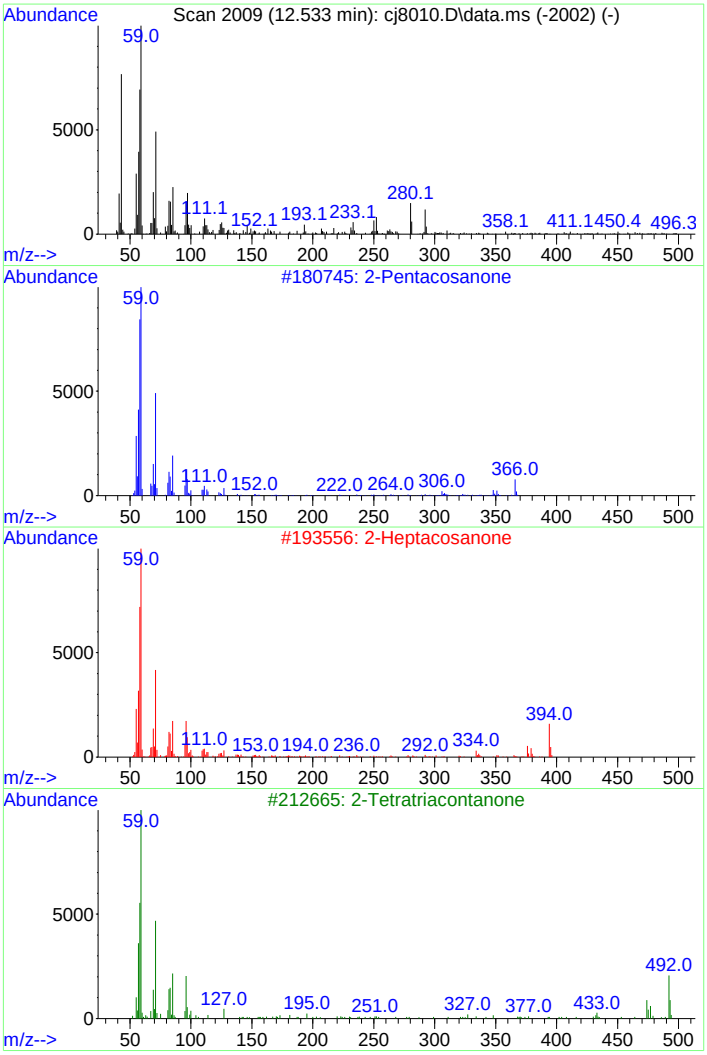
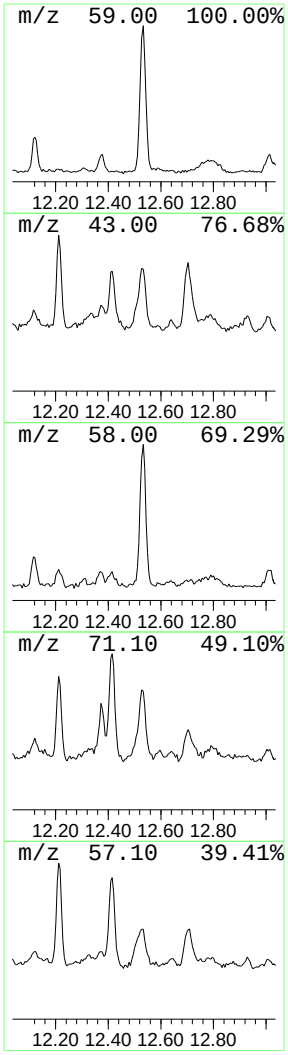
Peak Number 13 Unknown alcohol Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.533	4.79 ppm	482101	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentacosanone	366	C25H50O	075207-54-4	64
2	2-Heptacosanone	394	C27H54O	007796-19-2	64
3	2-Tetratriacontanone	493	C34H68O	077327-16-3	64
4	Guanidine, N-[3-[(2-bromophenyl)...	268	C10H13BrN4	1000349-85-6	62
5	2-Pentadecanone, 6,10,14-trimethyl-	268	C18H36O	000502-69-2	43





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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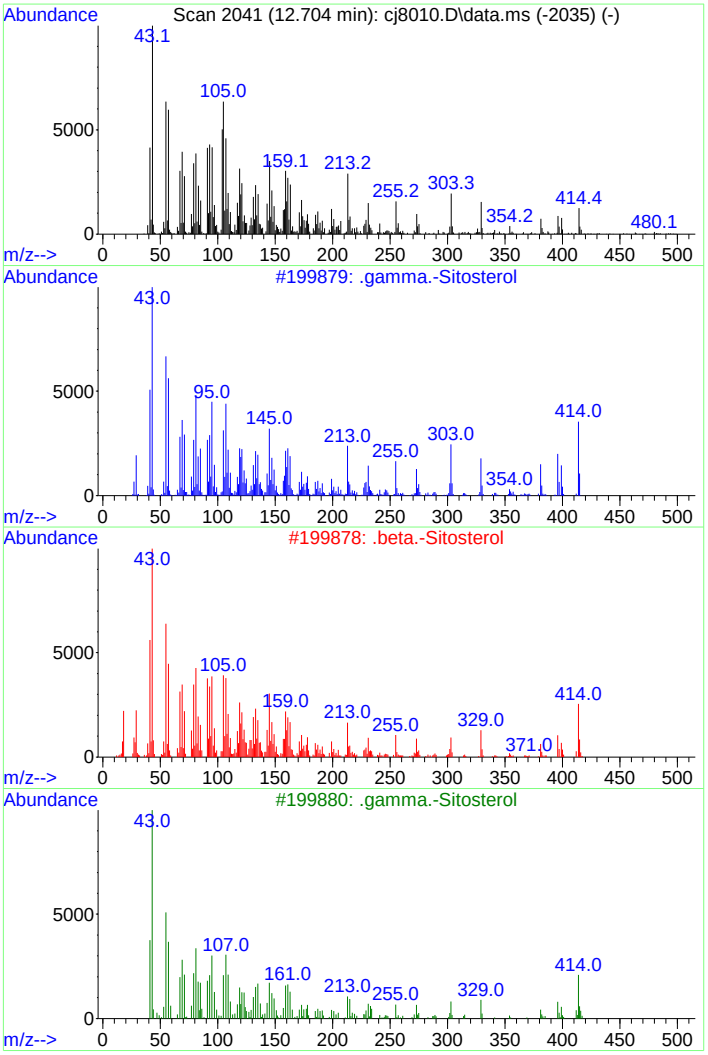
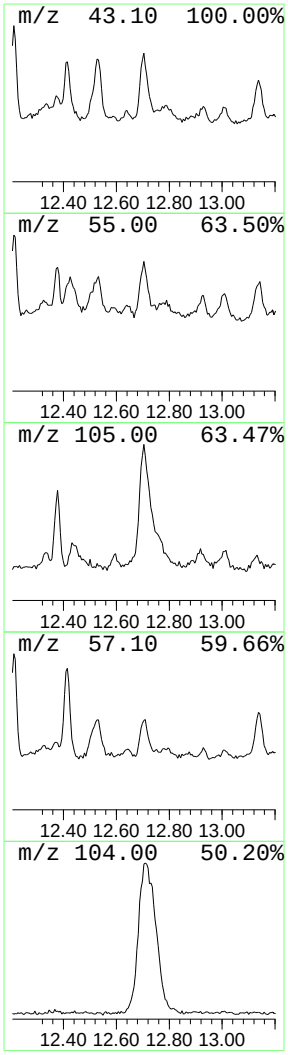
Peak Number 14 Sitosterol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.704	10.01 ppm	1008030	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
3	.gamma.-Sitosterol	414	C29H50O	000083-47-6	86
4	.beta.-Sitosterol	414	C29H50O	000083-46-5	46
5	Campesterol	400	C28H48O	000474-62-4	43





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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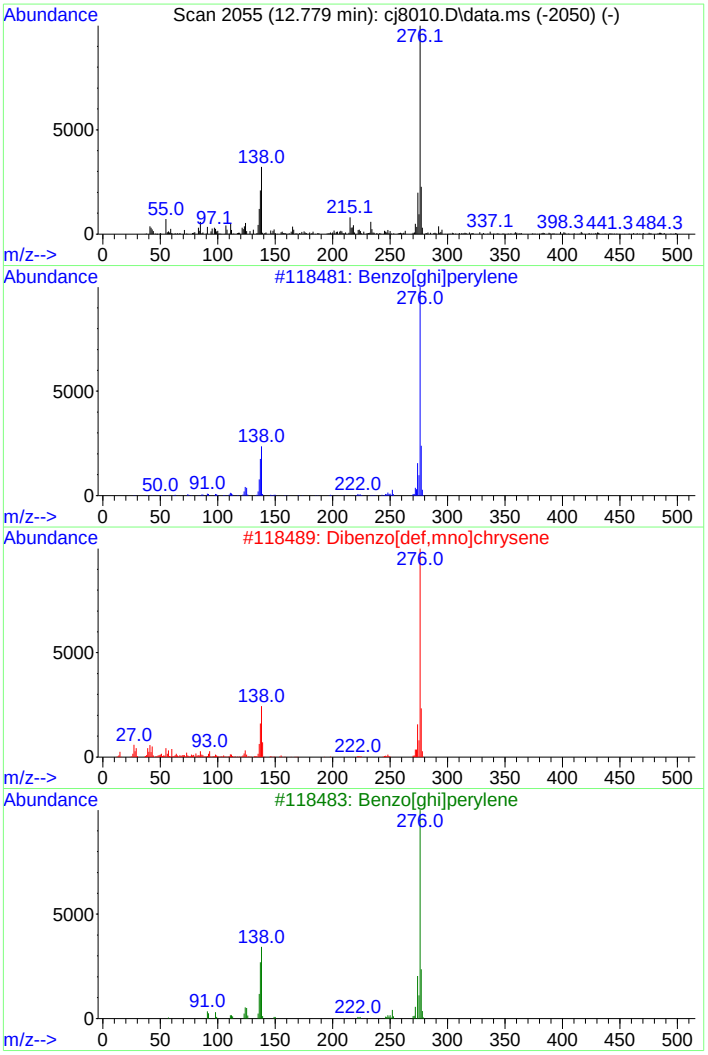
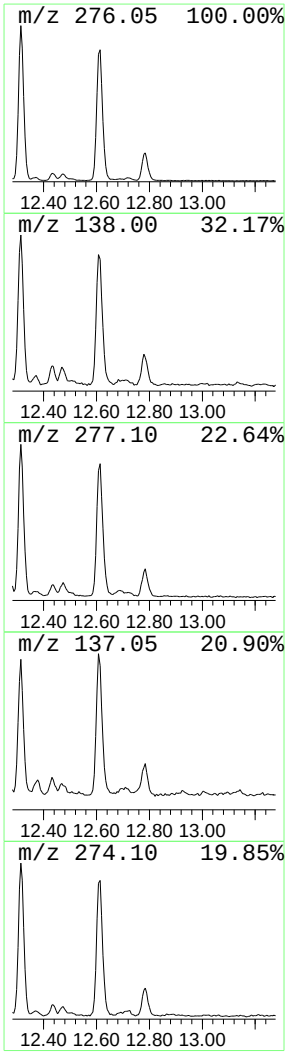
Peak Number 15 Unknown PAH substance Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.779	4.35 ppm	437833	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	96
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	93
3	Benzo[ghi]perylene	276	C22H12	000191-24-2	93
4	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	91
5	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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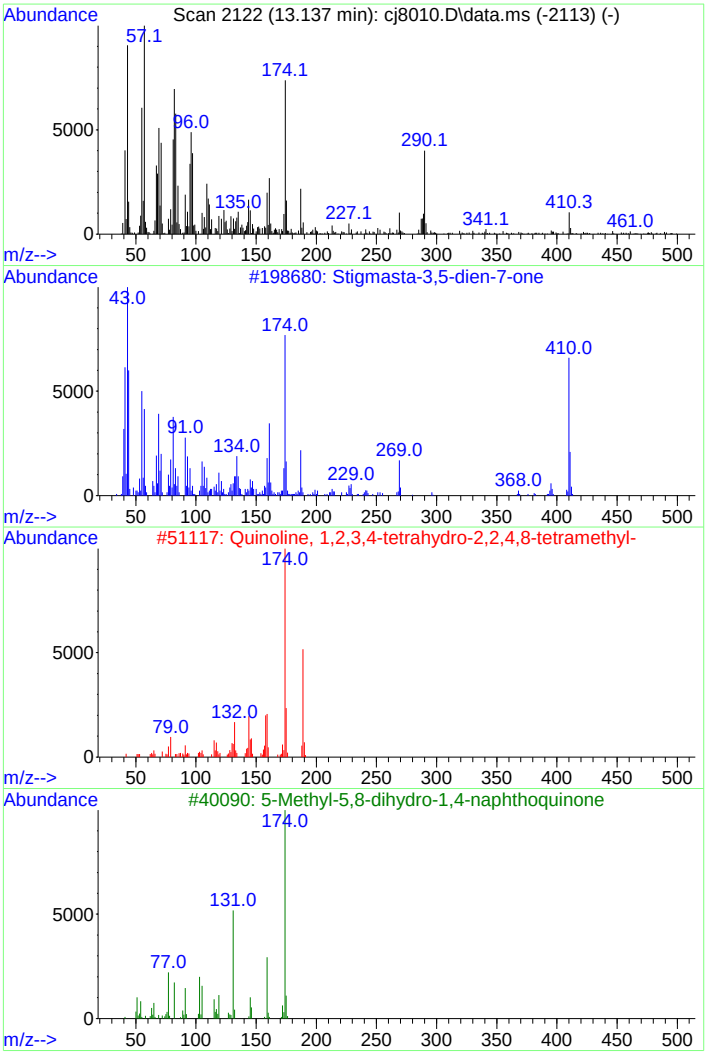
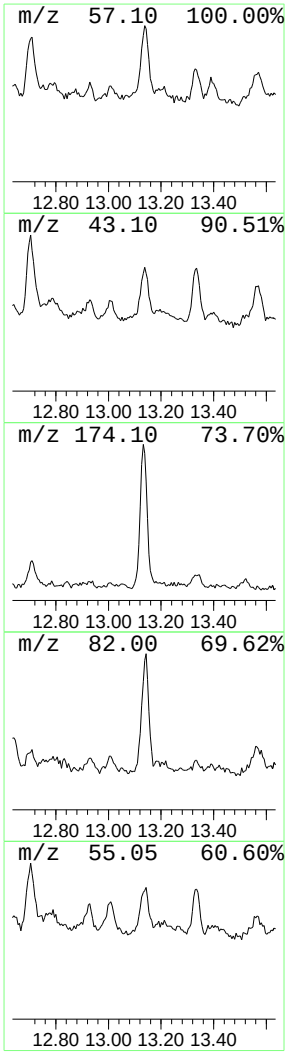
Peak Number 16 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.137	5.23 ppm	526764	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmasta-3,5-dien-7-one	410	C29H46O	002034-72-2	83
2	Quinoline, 1,2,3,4-tetrahydro-2,...	189	C13H19N	1000308-78-8	18
3	5-Methyl-5,8-dihydro-1,4-naphtho...	174	C11H10O2	086759-40-2	18
4	7-Methoxy-1-naphthol	174	C11H10O2	067247-13-6	18
5	Quinazoline, 4-ethyl-, 3-oxide	174	C10H10N2O	037920-74-4	14





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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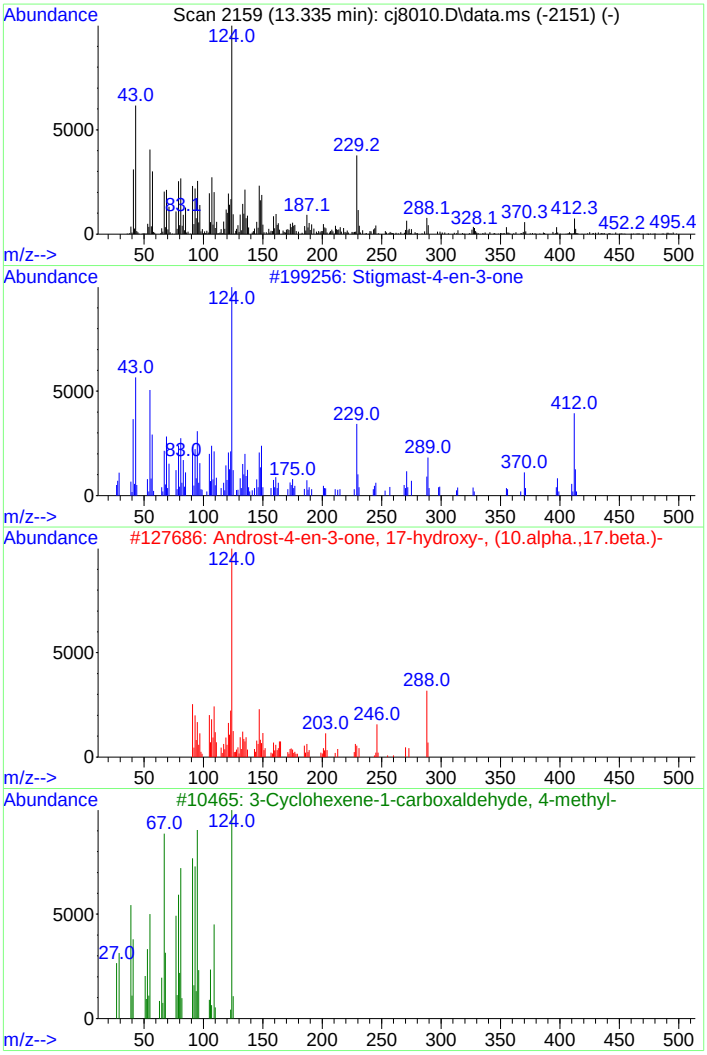
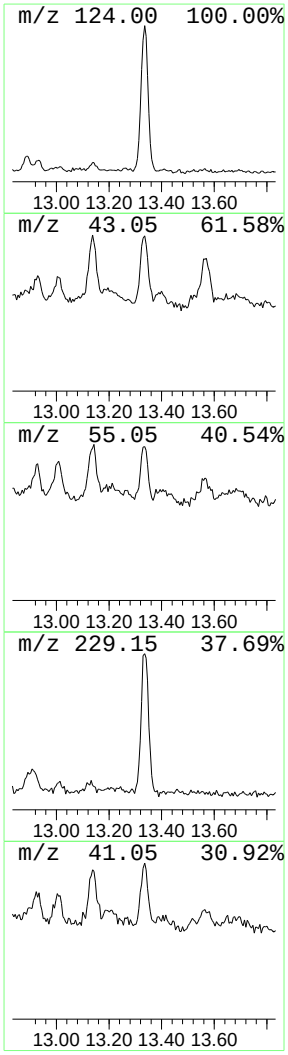
Peak Number 17 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.335	5.66 ppm	569678	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	93
2	Androst-4-en-3-one, 17-hydroxy-,...	288	C19H28O2	000604-39-7	70
3	3-Cyclohexene-1-carboxaldehyde, ...	124	C8H12O	007560-64-7	55
4	2,3a-Dimethylhexahydrobenzofuran...	170	C10H18O2	1000186-53-6	43
5	1,4-Benzenediol, 2-[8-hydroxy-3-...	278	C16H22O4	077828-64-9	43





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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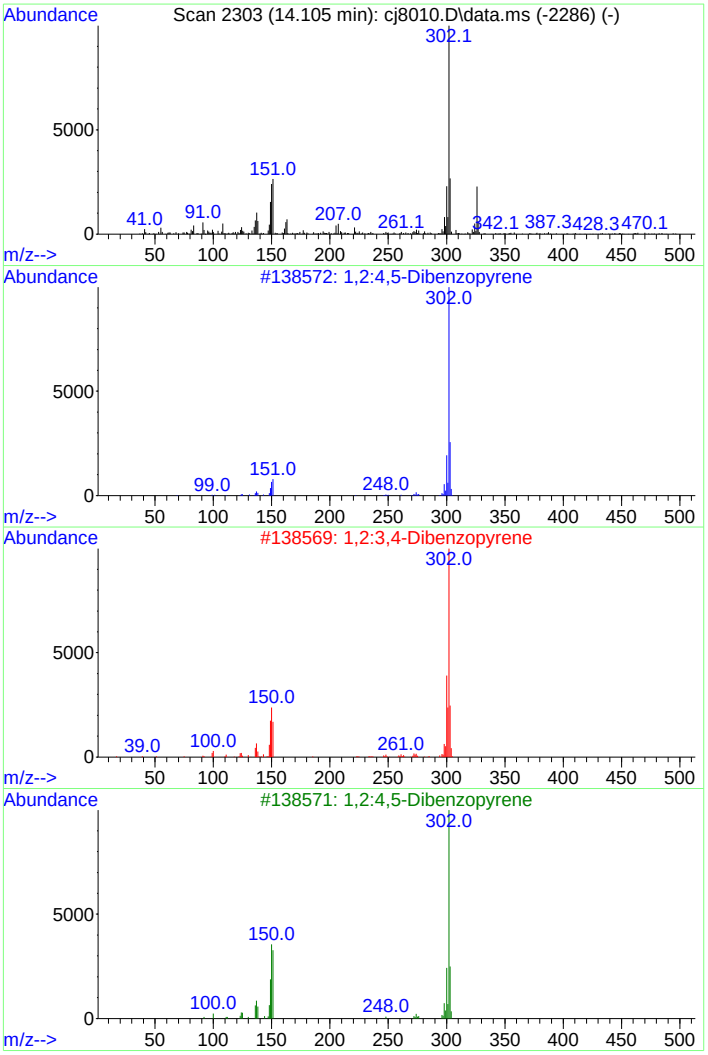
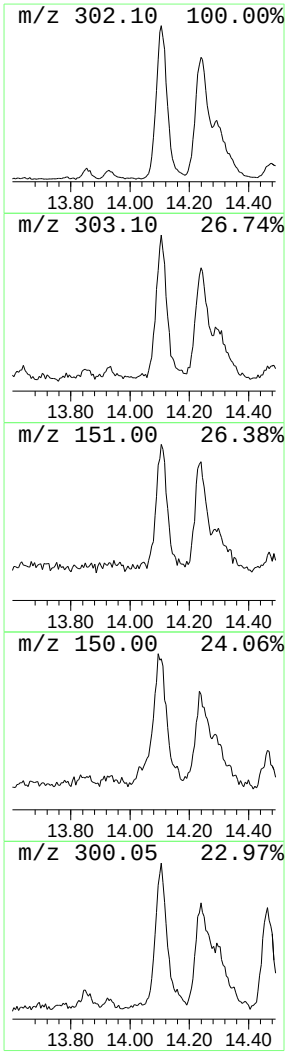
Peak Number 18 Dibenzopyrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.105	6.79 ppm	683715	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	97
2	1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	96
3	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	95
4	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	94
5	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	93





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8010.D
Acq On : 01 Jul 2024 07:57 pm
Operator : karimam
Sample : jd91204-16
Misc : op55759,ecj348,30.4,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Alkene	9.891	4.9	ppm	573143	9	9.966	4636410	40.0
Unknown alcohol	10.527	5.9	ppm	687341	10	9.966	4636410	40.0
Alkane	11.083	7.3	ppm	733140	11	11.276	4028670	40.0
Unknown alcohol	11.116	14.4	ppm	1455770	11	11.276	4028670	40.0
Alkane	11.361	4.1	ppm	411047	11	11.276	4028670	40.0
Unknown	11.415	5.3	ppm	534918	11	11.276	4028670	40.0
Unknown alcohol	11.511	18.6	ppm	1873020	11	11.276	4028670	40.0
Alkane	11.677	9.7	ppm	981458	11	11.276	4028670	40.0
Unknown alcohol	11.736	9.2	ppm	924535	11	11.276	4028670	40.0
Unknown alcohol	12.212	7.5	ppm	754049	11	11.276	4028670	40.0
Unknown	12.378	7.7	ppm	777535	11	11.276	4028670	40.0
Unknown PAH sub...	12.431	5.5	ppm	552169	11	11.276	4028670	40.0
Unknown alcohol	12.533	4.8	ppm	482101	11	11.276	4028670	40.0
Sitosterol	12.704	10.0	ppm	1008030	11	11.276	4028670	40.0
Unknown PAH sub...	12.779	4.3	ppm	437833	11	11.276	4028670	40.0
Unknown	13.137	5.2	ppm	526764	11	11.276	4028670	40.0
Unknown	13.335	5.7	ppm	569678	11	11.276	4028670	40.0
Dibenzopyrene	14.105	6.8	ppm	683715	11	11.276	4028670	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 07/02/24 05:10

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17 Inst : GCMSCJ
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 02 02:24:31 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

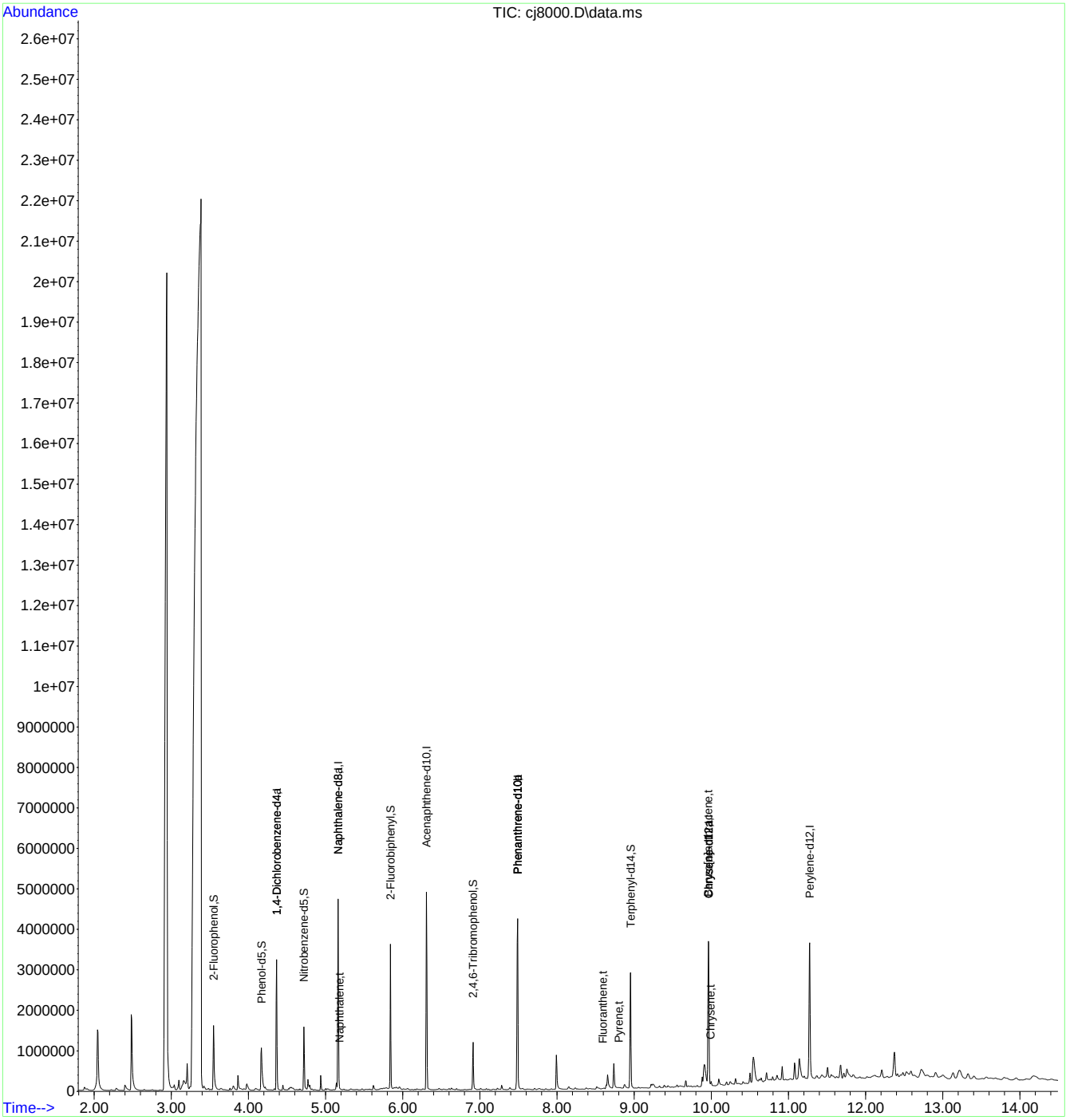
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.365	152	383462	40.00	ppm	0.00
24) Naphthalene-d8	5.162	136	1432667	40.00	ppm	0.00
46) Acenaphthene-d10	6.307	164	792213	40.00	ppm	0.00
69) Phenanthrene-d10	7.489	188	1450962	40.00	ppm	0.00
84) Chrysene-d12	9.965	240	1178249	40.00	ppm	0.00
93) Perylene-d12	11.276	264	1219382	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.365	152	383462	40.00	ppm	0.00
105) Phenanthrene-d10a	7.489	188	1450962	40.00	ppm	0.00
107) Naphthalene-d8a	5.162	136	1432667	40.00	ppm	0.00
109) Phenanthrene-d10b	7.489	188	1450962	40.00	ppm	0.00
112) Chrysene-d12a	9.965	240	1178249	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.547	112	285547	25.91	ppm	0.02
Spiked Amount 50.000			Recovery = 51.82%			
8) Phenol-d5	4.167	99	409509	28.81	ppm	0.01
Spiked Amount 50.000			Recovery = 57.62%			
25) Nitrobenzene-d5	4.718	82	393846	26.85	ppm	0.00
Spiked Amount 50.000			Recovery = 53.70%			
51) 2-Fluorobiphenyl	5.841	172	772305	30.98	ppm	0.00
Spiked Amount 50.000			Recovery = 61.96%			
74) 2,4,6-Tribromophenol	6.911	330	107247	33.71	ppm	0.00
Spiked Amount 50.000			Recovery = 67.42%			
87) Terphenyl-d14	8.954	244	945933	32.49	ppm	0.00
Spiked Amount 50.000			Recovery = 64.98%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
38) Naphthalene	5.178	128	2224	0.0648	ppm	95
82) Fluoranthene	8.591	202	6019m	0.1586	ppm	
86) Pyrene	8.799	202	5809	0.1450	ppm	94
89) Benzo[a]anthracene	9.960	228	6572	0.1735	ppm	73
91) Chrysene	9.987	228	3206	0.0917	ppm	88

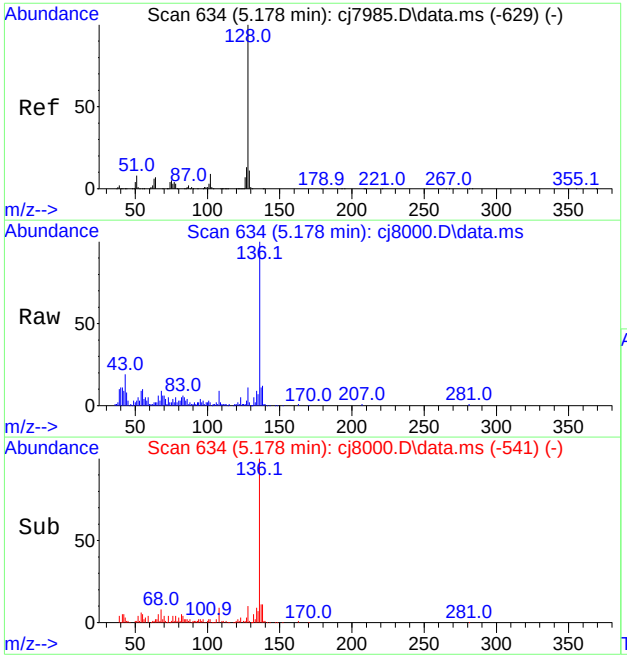
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17 Inst : GCMSCJ
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 02 02:24:31 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Tue Jul 02 01:41:13 2024
Response via : Initial Calibration

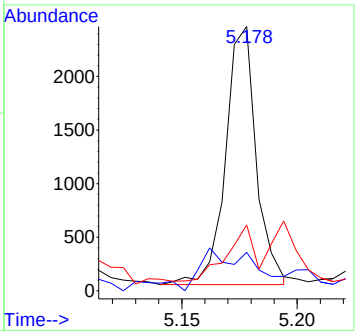


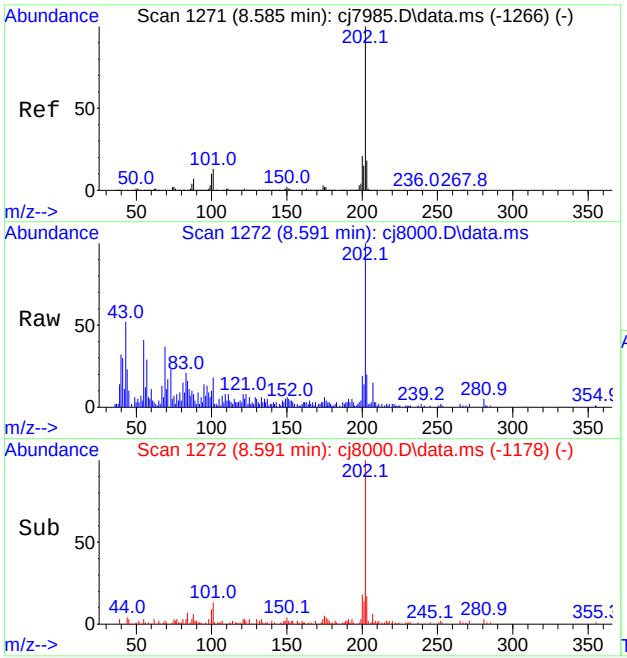


#38
Naphthalene
Concen: 0.0648 ppm
RT: 5.178 min Scan# 634
Delta R.T. -0.000 min
Lab File: cj8000.D
Acq: 01 Jul 2024 04:50 pm

Tgt Ion:128 Resp: 2224

Ion	Ratio	Lower	Upper
128	100		
129	10.8	0.0	41.3
127	9.9	0.0	43.5

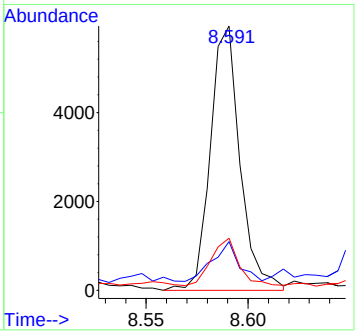


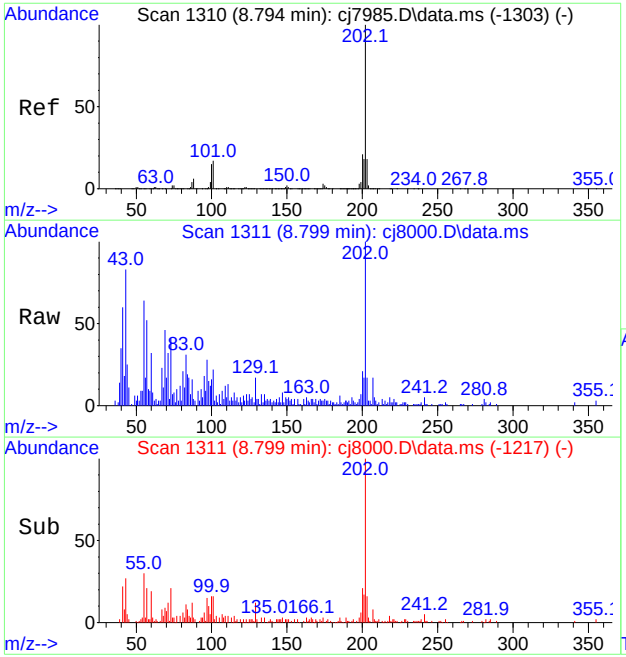


#82
Fluoranthene
Concen: 0.1586 ppm m
RT: 8.591 min Scan# 1272
Delta R.T. 0.005 min
Lab File: cj8000.D
Acq: 01 Jul 2024 04:50 pm

Tgt Ion:202 Resp: 6019

Ion	Ratio	Lower	Upper
202	100		
101	18.5	0.0	42.9
203	19.8	0.0	47.5

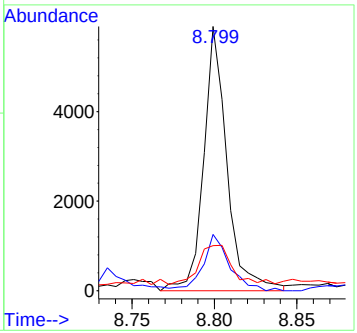


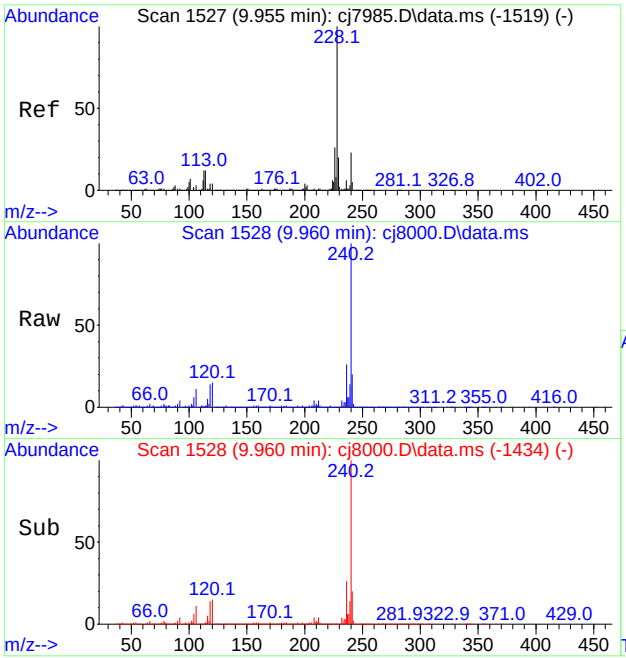


#86
Pyrene
Concen: 0.1450 ppm
RT: 8.799 min Scan# 1311
Delta R.T. 0.005 min
Lab File: cj8000.D
Acq: 01 Jul 2024 04:50 pm

Tgt Ion:202 Resp: 5809

Ion	Ratio	Lower	Upper
202	100		
200	20.7	0.0	51.0
203	13.2	0.0	48.5

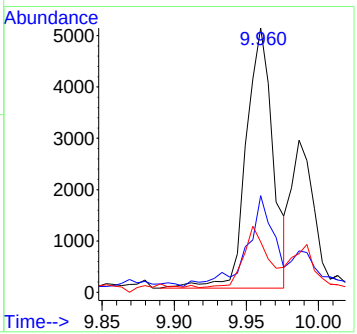


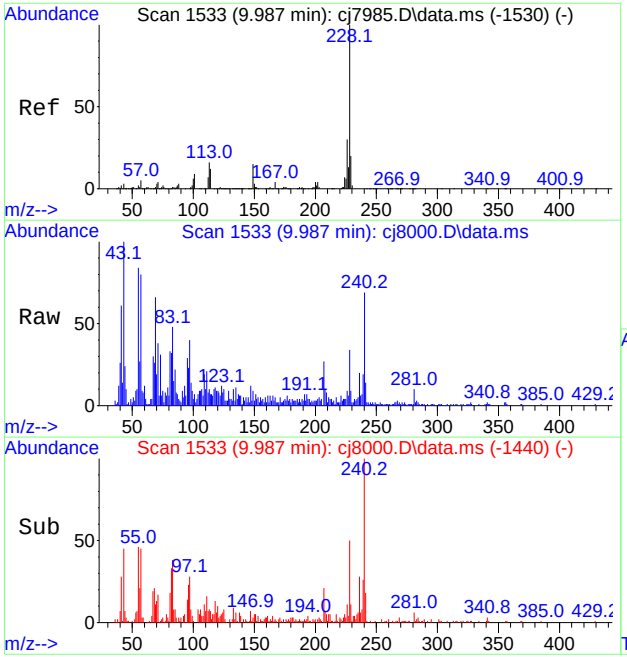


#89
Benzo[a]anthracene
Concen: 0.1735 ppm
RT: 9.960 min Scan# 1528
Delta R.T. 0.005 min
Lab File: cj8000.D
Acq: 01 Jul 2024 04:50 pm

Tgt Ion:228 Resp: 6572

Ion	Ratio	Lower	Upper
228	100		
229	35.6	0.0	49.9
226	15.0	0.0	56.5

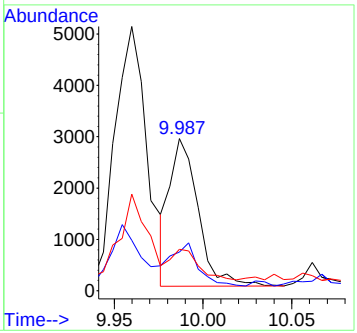




#91
Chrysene
Concen: 0.0917 ppm
RT: 9.987 min Scan# 1533
Delta R.T. -0.000 min
Lab File: cj8000.D
Acq: 01 Jul 2024 04:50 pm

Tgt Ion:228 Resp: 3206

Ion	Ratio	Lower	Upper
228	100		
226	20.3	0.3	60.3
229	21.0	0.0	50.3



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj8000.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.092	426	431	441	rBV4	47751	86469	2.02%	0.142%
2	4.167	441	445	453	rVV2	1044087	1291208	30.16%	2.115%
3	4.215	453	454	463	rVV	79583	83493	1.95%	0.137%
4	4.365	478	482	493	rVB	3227229	2267828	52.98%	3.714%
5	4.445	493	497	502	rBV2	128954	95411	2.23%	0.156%
6	4.536	508	514	516	rVV2	67859	94270	2.20%	0.154%
7	4.552	516	517	527	rVV3	69046	126710	2.96%	0.208%
8	4.718	543	548	555	rBV	1563258	1130448	26.41%	1.852%
9	4.772	555	558	561	rVV	261687	246319	5.75%	0.403%
10	4.793	561	562	566	rVV	126017	84998	1.99%	0.139%
11	4.937	583	589	598	rBV	368752	250360	5.85%	0.410%
12	5.162	622	631	641	rVV	4719376	3137560	73.30%	5.139%
13	5.617	713	716	724	rBV	108866	111294	2.60%	0.182%
14	5.788	743	748	752	rVV5	49647	112492	2.63%	0.184%
15	5.841	752	758	764	rVV	3595161	2372638	55.43%	3.886%
16	5.890	764	767	769	rVV3	59367	73663	1.72%	0.121%
17	5.916	769	772	776	rVV5	62249	107305	2.51%	0.176%
18	5.959	776	780	786	rVV3	69357	111962	2.62%	0.183%
19	6.307	841	845	857	rVB	4881787	3470337	81.07%	5.684%
20	6.473	863	876	882	rBV7	36687	74039	1.73%	0.121%
21	6.911	953	958	968	rBV	1168349	970298	22.67%	1.589%
22	7.280	1025	1027	1040	rVB	109815	105095	2.46%	0.172%
23	7.387	1040	1047	1057	rBV	49388	80569	1.88%	0.132%
24	7.489	1057	1066	1073	rBV	4221195	3704035	86.53%	6.067%
25	7.992	1156	1160	1176	rBV	850946	797262	18.63%	1.306%
26	8.152	1184	1190	1202	rBV2	64871	108015	2.52%	0.177%
27	8.516	1252	1258	1269	rBV4	60189	107794	2.52%	0.177%
28	8.655	1278	1284	1295	rBV2	352406	531771	12.42%	0.871%
29	8.735	1295	1299	1309	rVV	608740	543472	12.70%	0.890%
30	8.874	1319	1325	1335	rBV2	88959	137689	3.22%	0.226%
31	8.954	1335	1340	1349	rVB	2855842	2704133	63.17%	4.429%
32	9.222	1382	1390	1391	rBV	90734	91198	2.13%	0.149%
33	9.243	1391	1394	1404	rVB3	86946	166389	3.89%	0.273%
34	9.553	1443	1452	1455	rBV3	58629	76511	1.79%	0.125%
35	9.596	1455	1460	1469	rVB5	31584	74053	1.73%	0.121%
36	9.666	1469	1473	1477	rBV	154882	148596	3.47%	0.243%
37	9.906	1505	1518	1525	rBV3	545524	1381283	32.27%	2.262%
38	9.960	1525	1528	1533	rVV	3565712	3517212	82.17%	5.761%
39	9.997	1533	1535	1540	rVB2	108371	86657	2.02%	0.142%
40	10.094	1546	1553	1565	rBV	166274	273844	6.40%	0.449%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	10.195	1567	1572	1576	rVV2	84282	87309	2.04%	0.143%
42	10.243	1576	1581	1591	rVV2	82895	180616	4.22%	0.296%
43	10.313	1591	1594	1599	rVV	158076	171246	4.00%	0.280%
44	10.409	1607	1612	1618	rVV3	74857	133415	3.12%	0.219%
45	10.500	1623	1629	1633	rVV	289403	324307	7.58%	0.531%
46	10.543	1633	1637	1649	rVV2	674325	1552549	36.27%	2.543%
47	10.623	1649	1652	1654	rVV2	129478	174626	4.08%	0.286%
48	10.645	1654	1656	1662	rVV	160427	248867	5.81%	0.408%
49	10.714	1662	1669	1676	rVV	280407	590417	13.79%	0.967%
50	10.762	1676	1678	1681	rVV4	119691	171461	4.01%	0.281%
51	10.794	1681	1684	1687	rVV	179876	246696	5.76%	0.404%
52	10.848	1687	1694	1703	rVV4	211856	654894	15.30%	1.073%
53	10.917	1703	1707	1712	rVV	429888	534998	12.50%	0.876%
54	10.960	1712	1715	1719	rVV5	111435	222028	5.19%	0.364%
55	11.030	1719	1728	1732	rVV10	120597	429977	10.05%	0.704%
56	11.078	1732	1737	1742	rVV	509593	702835	16.42%	1.151%
57	11.142	1742	1749	1758	rVV	608382	1435351	33.53%	2.351%
58	11.206	1758	1761	1764	rVV3	173578	279916	6.54%	0.458%
59	11.233	1764	1766	1768	rVV3	124628	150583	3.52%	0.247%
60	11.276	1768	1774	1785	rVV	3463136	4280498	100.00%	7.011%
61	11.361	1785	1790	1797	rVV3	174869	519369	12.13%	0.851%
62	11.431	1797	1803	1810	rVV4	189371	635268	14.84%	1.040%
63	11.506	1810	1817	1822	rVV	376697	758763	17.73%	1.243%
64	11.554	1822	1826	1836	rVV9	195059	674469	15.76%	1.105%
65	11.623	1836	1839	1842	rVV5	143412	244461	5.71%	0.400%
66	11.677	1844	1849	1853	rVV	421932	668712	15.62%	1.095%
67	11.714	1853	1856	1860	rVV3	222330	367608	8.59%	0.602%
68	11.757	1860	1864	1875	rVV2	321103	950239	22.20%	1.556%
69	11.837	1875	1879	1888	rVV3	178441	543394	12.69%	0.890%
70	11.928	1889	1896	1899	rVV5	117504	326974	7.64%	0.536%
71	11.960	1899	1902	1906	rVV6	96319	203477	4.75%	0.333%
72	12.019	1907	1913	1916	rVV2	116926	287924	6.73%	0.472%
73	12.041	1916	1917	1920	rVV2	104872	128237	3.00%	0.210%
74	12.121	1920	1932	1941	rVV10	146451	825066	19.28%	1.351%
75	12.206	1941	1948	1954	rVV	280008	647119	15.12%	1.060%
76	12.281	1954	1962	1966	rVV10	116425	373891	8.73%	0.612%
77	12.372	1966	1979	1984	rVV2	708856	1462873	34.18%	2.396%
78	12.410	1984	1986	1990	rVV2	167675	264735	6.18%	0.434%
79	12.452	1990	1994	1996	rVV3	146183	249971	5.84%	0.409%
80	12.484	1996	2000	2004	rVV2	201427	400122	9.35%	0.655%
81	12.527	2004	2008	2015	rVV3	215433	614645	14.36%	1.007%
82	12.586	2015	2019	2025	rVV6	229909	547988	12.80%	0.898%
83	12.629	2025	2027	2036	rVV9	123264	350650	8.19%	0.574%
84	12.720	2036	2044	2054	rVV9	263824	988903	23.10%	1.620%
85	12.800	2054	2059	2065	rVV9	119359	368342	8.61%	0.603%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.854	2066	2069	2072	rVV5	83949	153419	3.58%	0.251%
87	12.907	2072	2079	2086	rVV6	179339	498080	11.64%	0.816%
88	13.003	2086	2097	2112	rVV6	105284	510753	11.93%	0.837%
89	13.132	2112	2121	2128	rVV4	159199	373306	8.72%	0.611%
90	13.217	2128	2137	2150	rVV6	218589	758119	17.71%	1.242%
91	13.324	2150	2157	2164	rVV3	124139	256690	6.00%	0.420%
92	13.399	2164	2171	2183	rVB6	75087	168618	3.94%	0.276%
93	13.560	2196	2201	2207	rBV6	45396	94535	2.21%	0.155%
94	13.683	2219	2224	2236	rVB6	42883	111848	2.61%	0.183%
95	13.795	2237	2245	2261	rVB9	62280	232879	5.44%	0.381%
96	13.950	2266	2274	2282	rVB9	53883	141737	3.31%	0.232%
97	14.089	2290	2300	2306	rBV10	24573	81213	1.90%	0.133%
98	14.175	2306	2316	2331	rVV10	103538	525164	12.27%	0.860%
99	14.292	2332	2338	2350	rVV10	38560	145468	3.40%	0.238%
100	14.405	2350	2359	2370	rVB10	28760	91935	2.15%	0.151%

Sum of corrected areas: 61054233

LSC Report - Integrated Chromatogram

```
Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
Acq On    : 01 Jul 2024  04:50 pm
Operator  : karimam
Sample    : jd91204-17
Misc      : op55759,ecj348,31.3,,,1,1
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title  : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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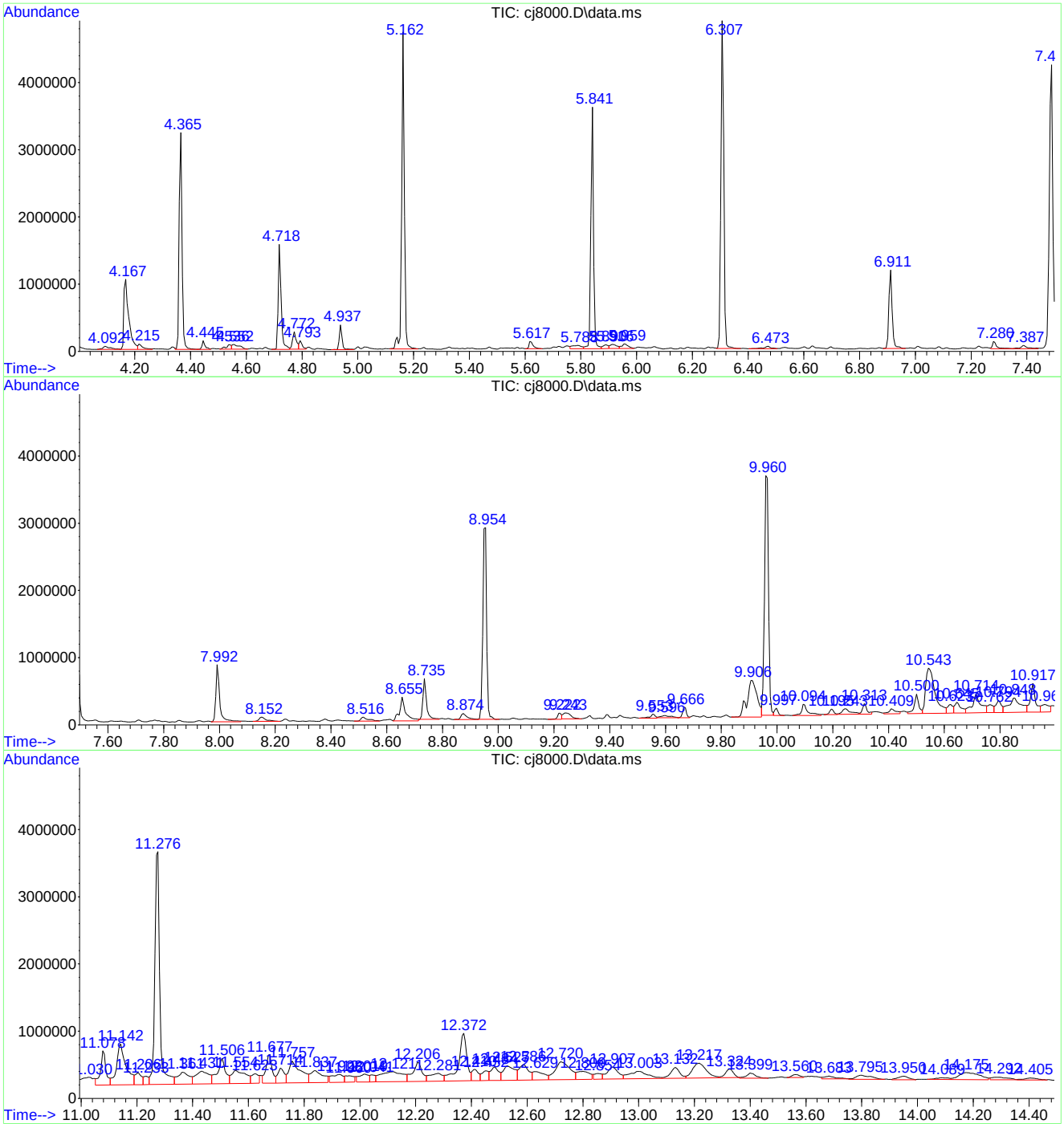


Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

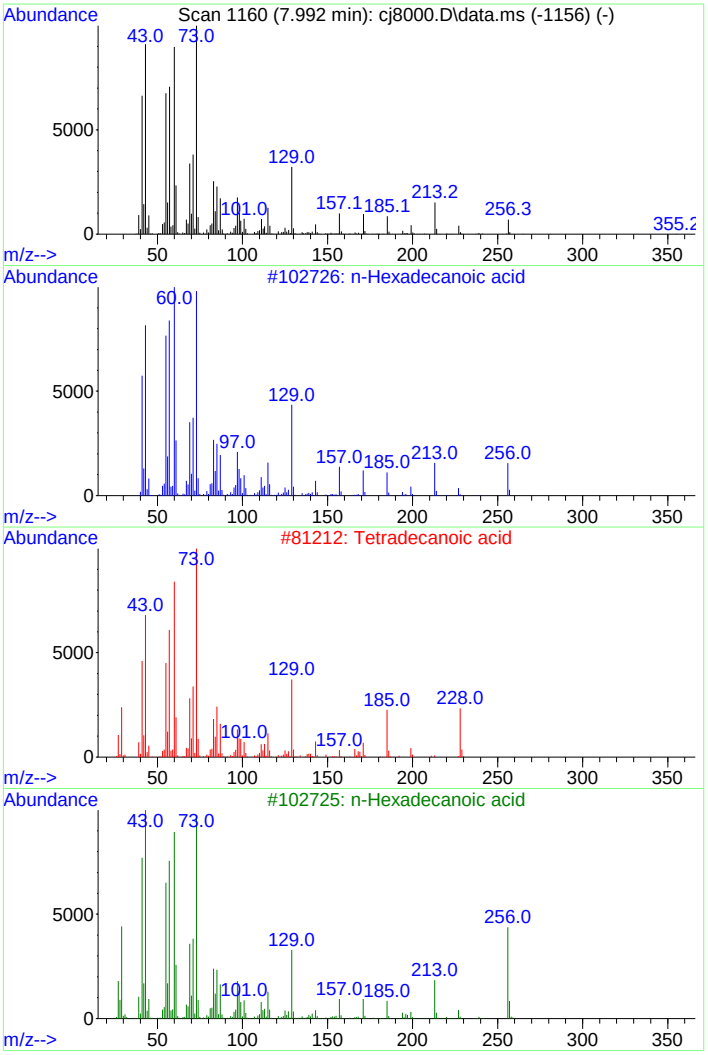
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

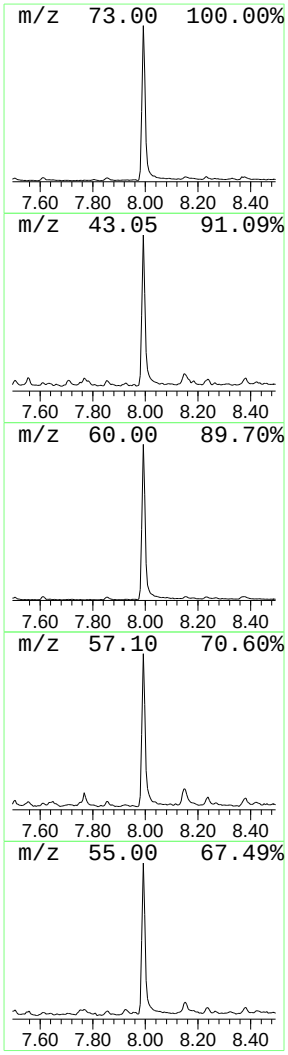
****

Peak Number 1 n-Hexadecanoic acid Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.992	8.61 ppm	797262	Phenanthrene-d10b	7.489

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	95
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	94
4	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	91
5	Tridecanoic acid	214	C13H26O2	000638-53-9	87





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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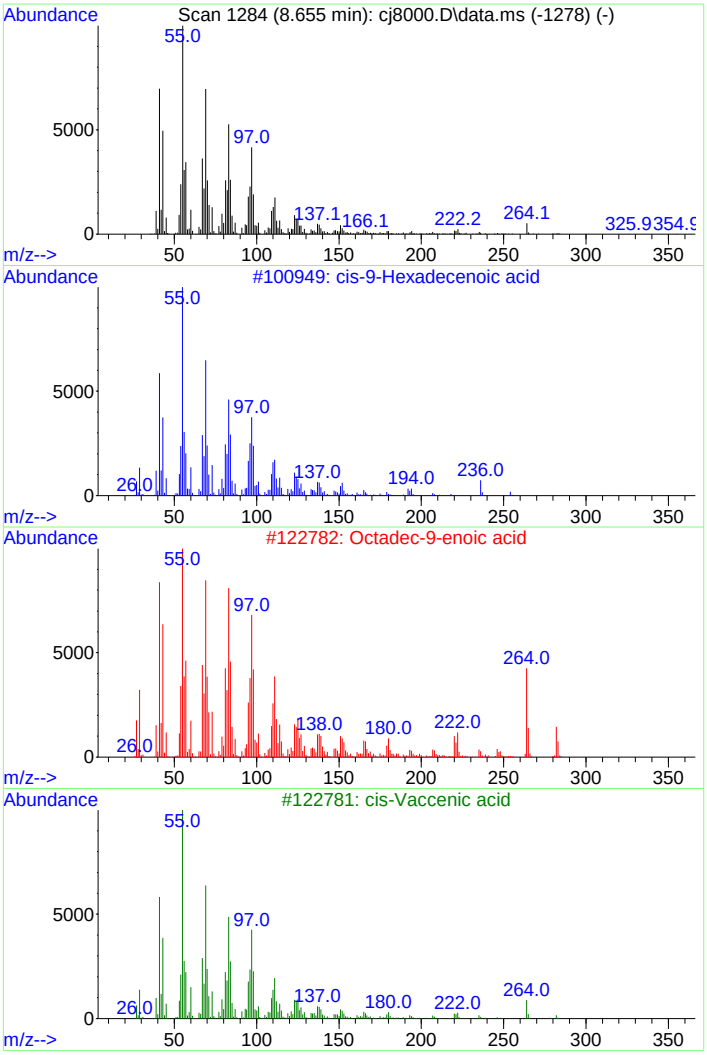
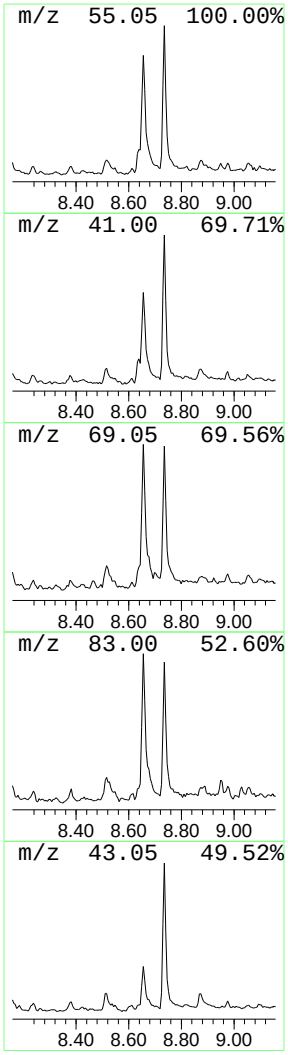
Peak Number 2 Unknown acid Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.655	5.74 ppm	531771	Phenanthrene-d10b	7.489

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	cis-9-Hexadecenoic acid	254	C16H30O2	1000333-19-5	91
2	Octadec-9-enoic acid	282	C18H34O2	1000190-13-7	91
3	cis-Vaccenic acid	282	C18H34O2	000506-17-2	91
4	9-Hexadecenoic acid, methyl este...	268	C17H32O2	001120-25-8	91
5	Oleic Acid	282	C18H34O2	000112-80-1	90





Library Search Compound Report

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Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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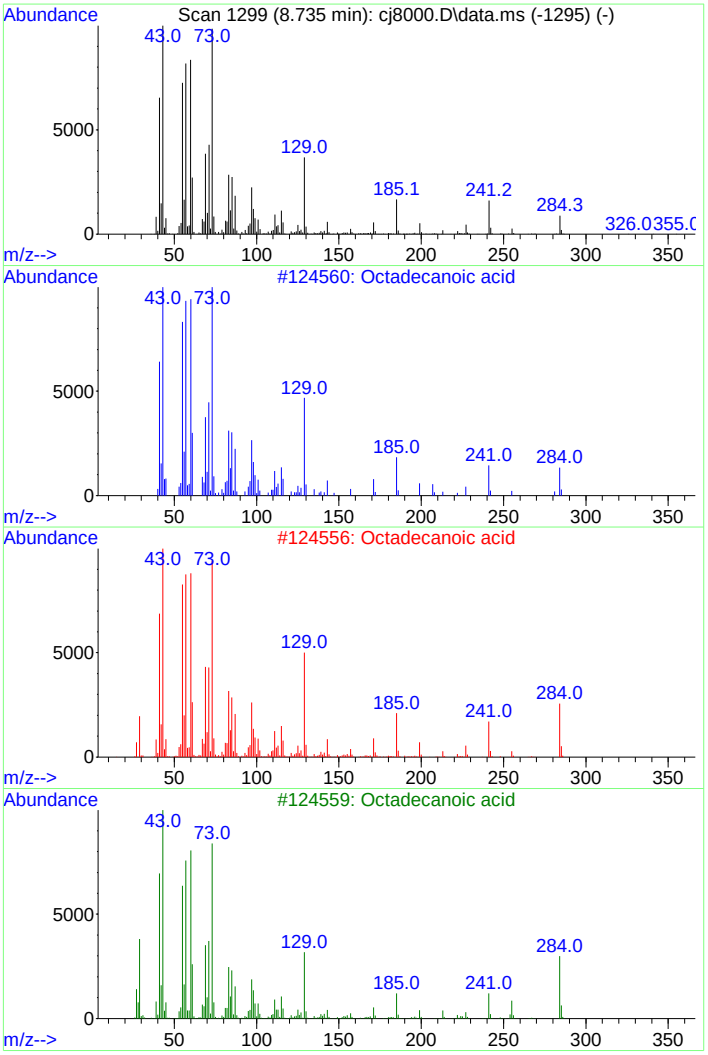
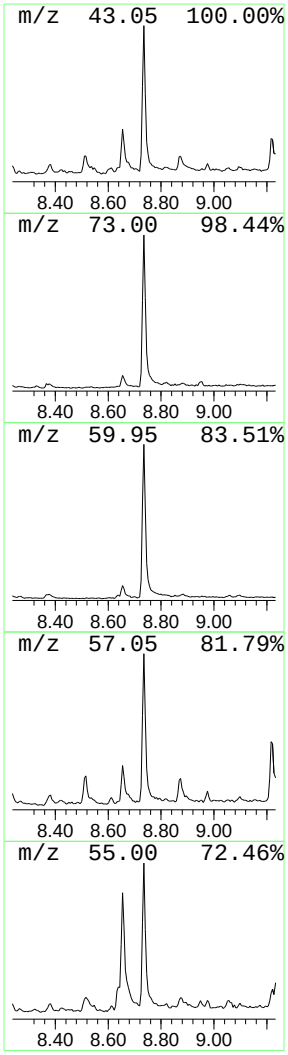
Peak Number 3 Octadecanoic acid Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.735	6.18 ppm	543472	Chrysene-d12	9.965

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Octadecanoic acid	284	C18H36O2	000057-11-4	99
3	Octadecanoic acid	284	C18H36O2	000057-11-4	95
4	Octadecanoic acid	284	C18H36O2	000057-11-4	94
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	93





Library Search Compound Report

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Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
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ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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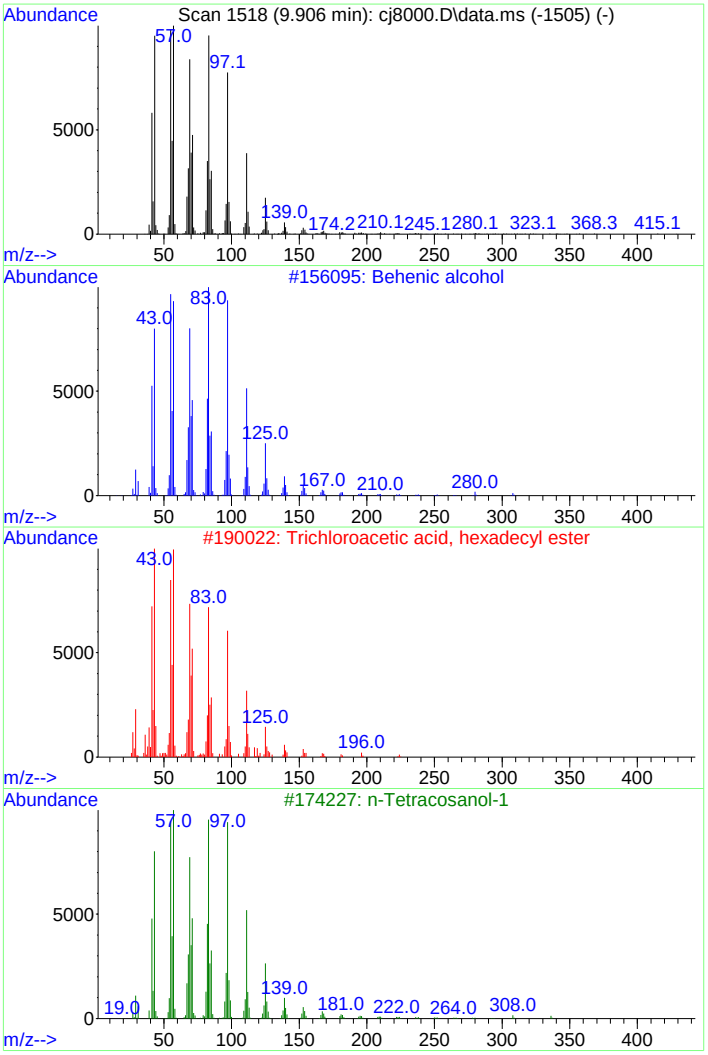
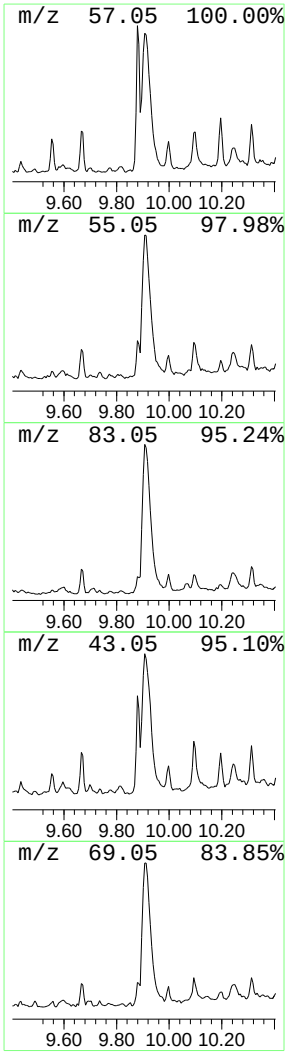
Peak Number 4 Unknown alcohol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.906	15.71 ppm	1381280	Chrysene-d12	9.965

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Behenic alcohol	326	C22H46O	000661-19-8	94
2	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
4	n-Nonadecanol-1	284	C19H40O	001454-84-8	94
5	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	91





Library Search Compound Report

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Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
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Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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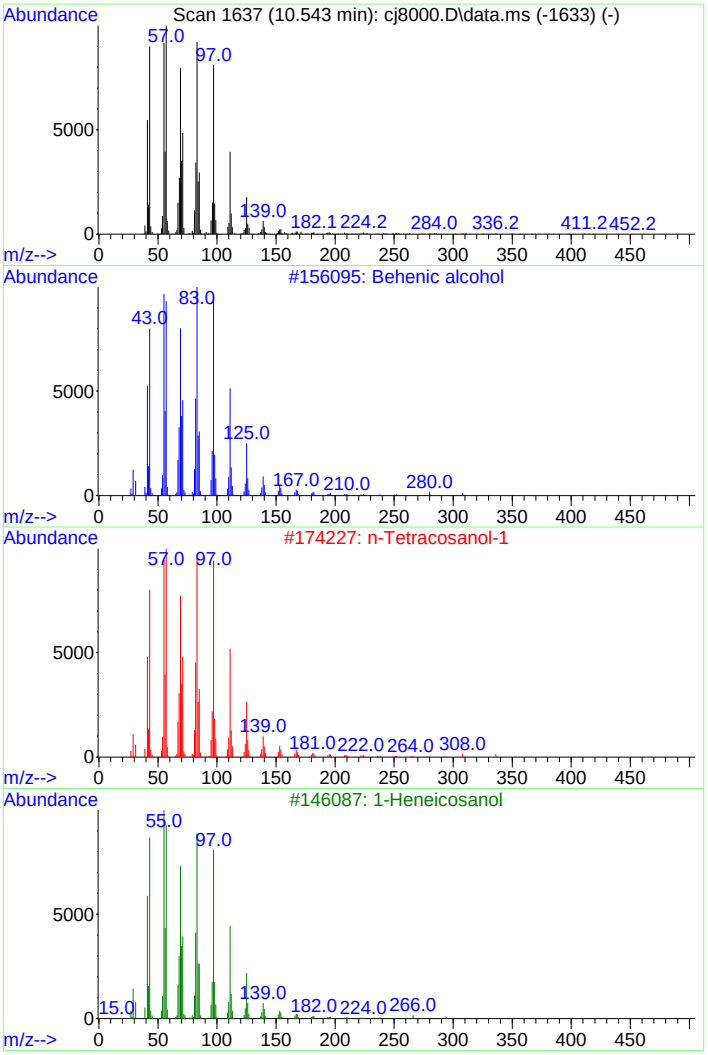
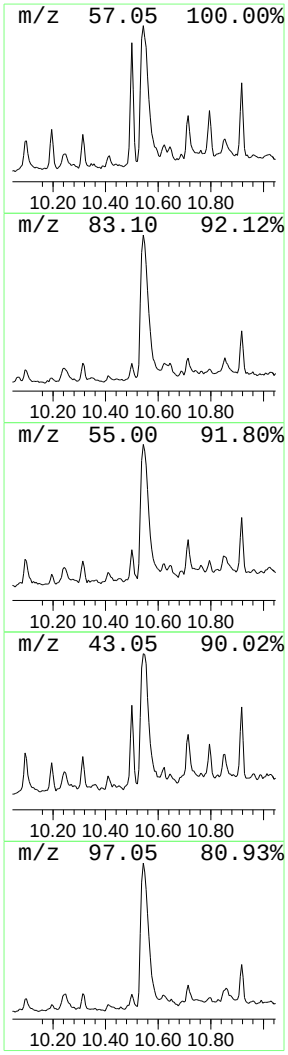
Peak Number 5 Unknown alcohol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.543	17.66 ppm	1552550	Chrysene-d12a	9.965

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Behenic alcohol	326	C22H46O	000661-19-8	94
2	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
3	1-Heneicosanol	312	C21H44O	015594-90-8	91
4	1-Heptacosanol	396	C27H56O	002004-39-9	91
5	1-Hexadecanol	242	C16H34O	036653-82-4	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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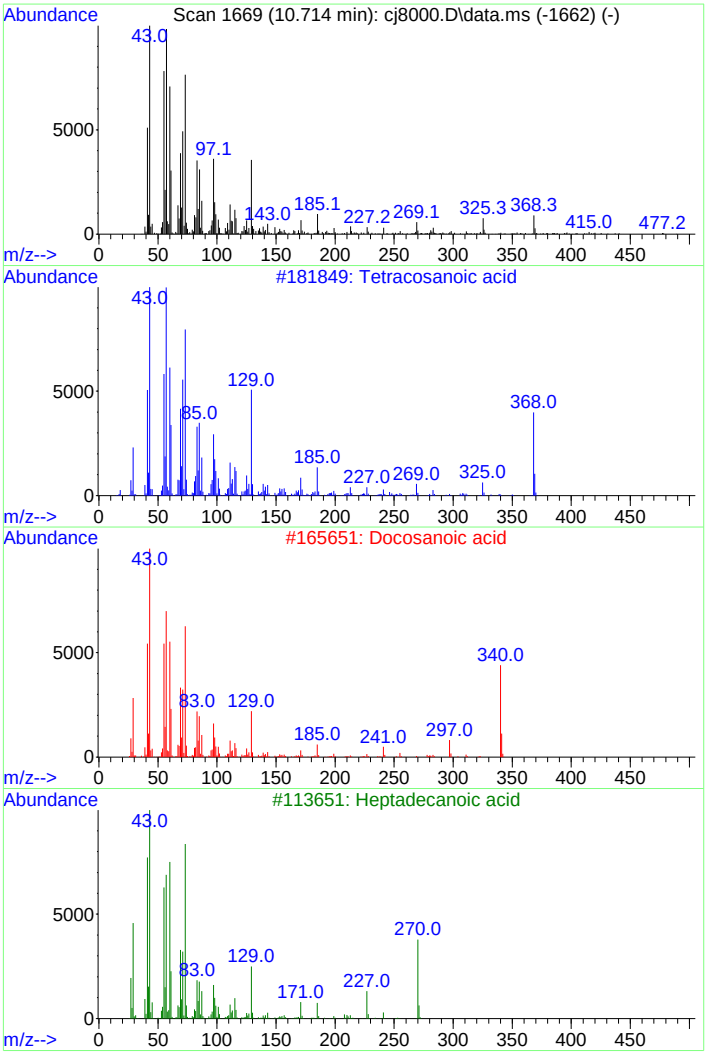
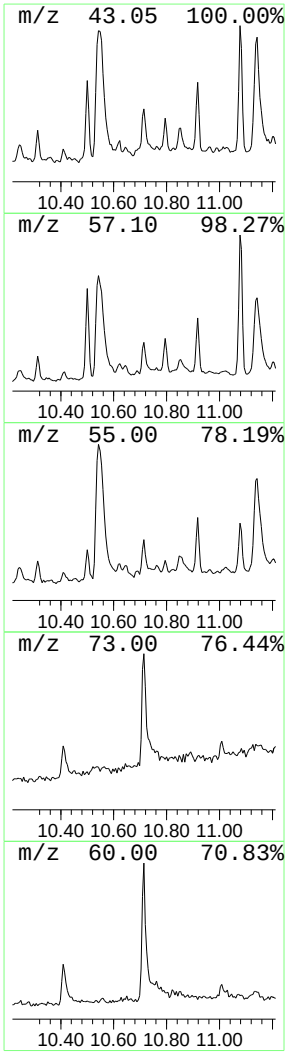
Peak Number 6 Unknown acid Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.714	5.52 ppm	590417	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosanoic acid	368	C24H48O2	000557-59-5	98
2	Docosanoic acid	340	C22H44O2	000112-85-6	95
3	Heptadecanoic acid	270	C17H34O2	000506-12-7	68
4	Hexacosanoic acid	396	C26H52O2	000506-46-7	64
5	n-Decanoic acid	172	C10H20O2	000334-48-5	46





Library Search Compound Report

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Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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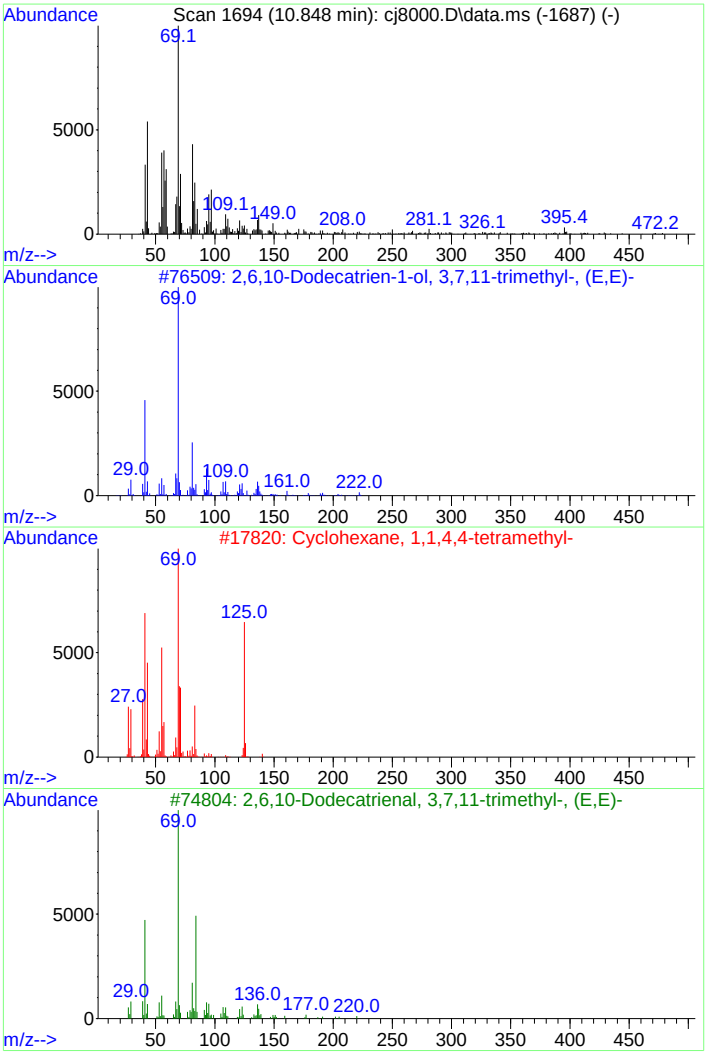
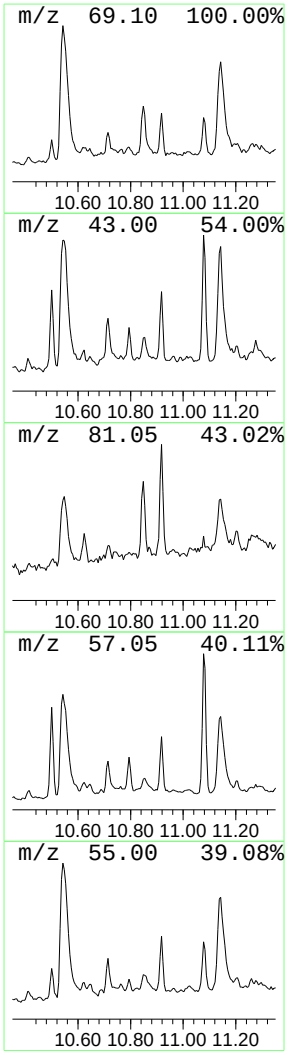
Peak Number 7 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.848	6.12 ppm	654894	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,6,10-Dodecatrien-1-ol, 3,7,11-...	222	C15H26O	000106-28-5	46
2	Cyclohexane, 1,1,4,4-tetramethyl-	140	C10H20	002223-52-1	43
3	2,6,10-Dodecatrienal, 3,7,11-tri...	220	C15H24O	000502-67-0	38
4	Farnesol isomer a	222	C15H26O	1000108-92-4	38
5	2,6,10-Dodecatrienoic acid, 3,7,...	250	C16H26O2	003675-00-1	38





Library Search Compound Report

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Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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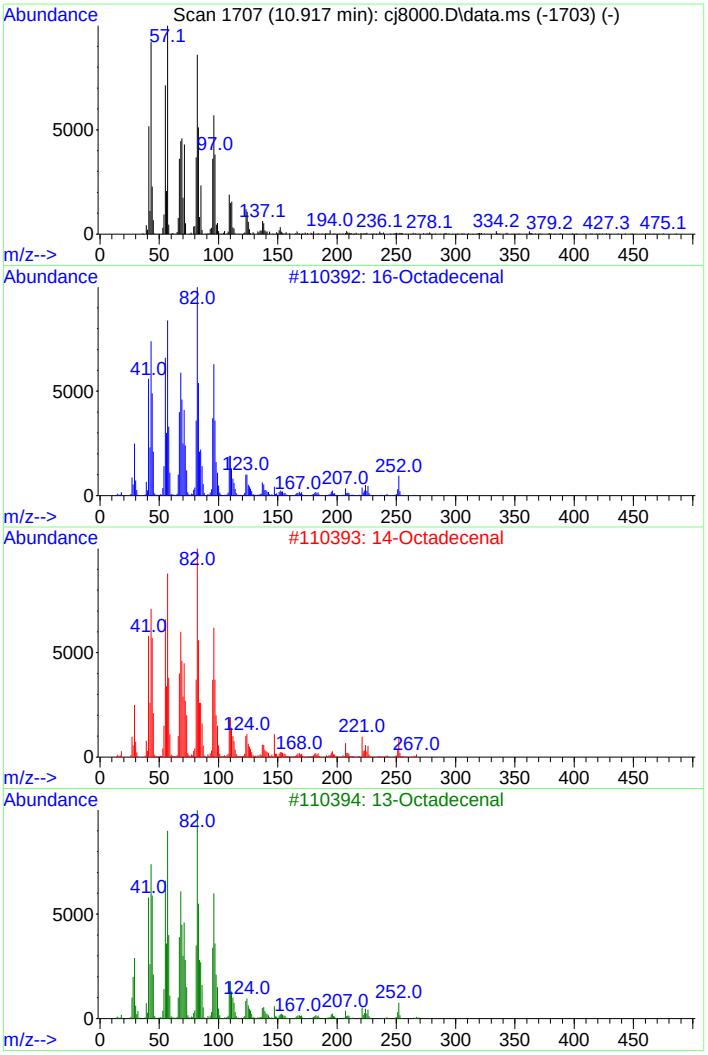
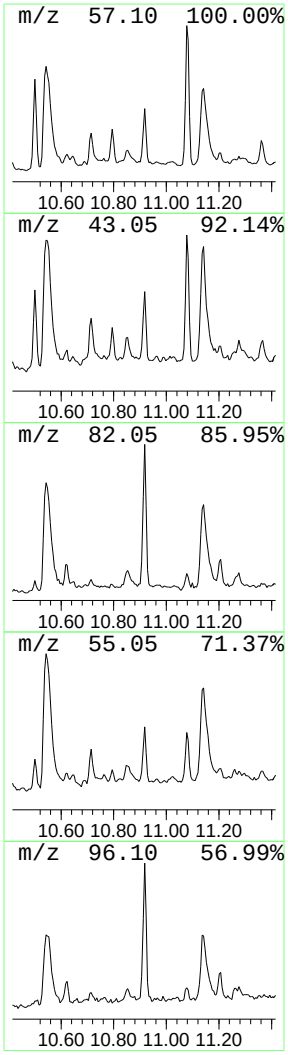
Peak Number 8 Unknown alcohol Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.917	5.00 ppm	534998	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	16-Octadecenal	266	C18H34O	056554-87-1	94
2	14-Octadecenal	266	C18H34O	056554-89-3	94
3	13-Octadecenal	266	C18H34O	056554-90-6	94
4	1,19-Eicosadiene	278	C20H38	014811-95-1	92
5	Octadecanal	268	C18H36O	000638-66-4	91





Library Search Compound Report

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Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
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Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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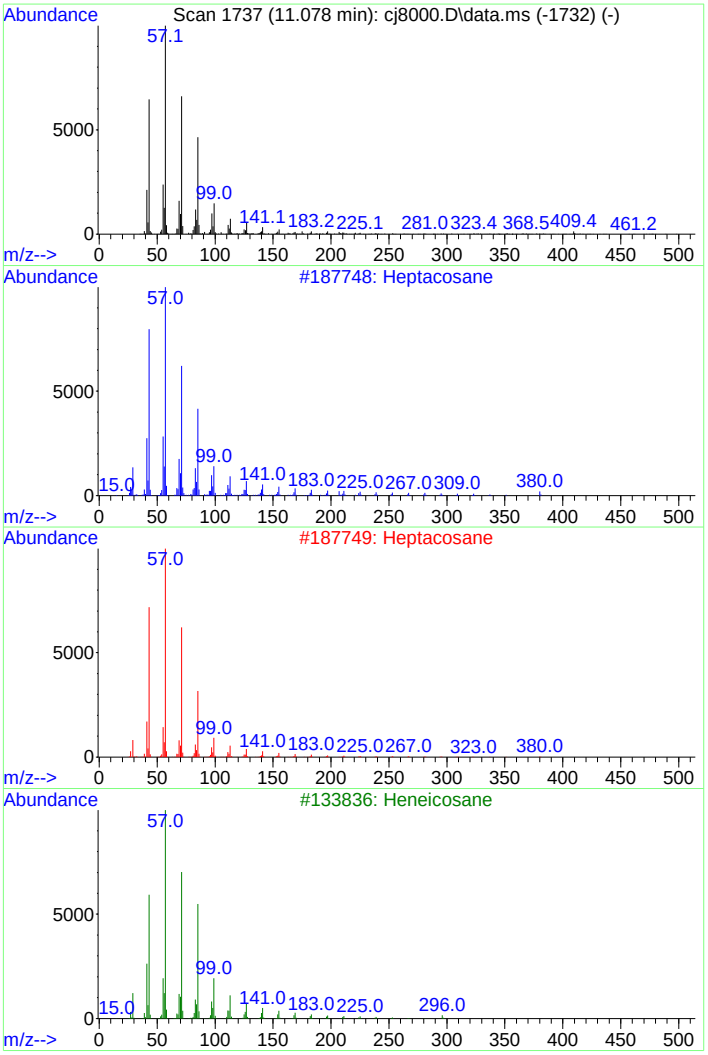
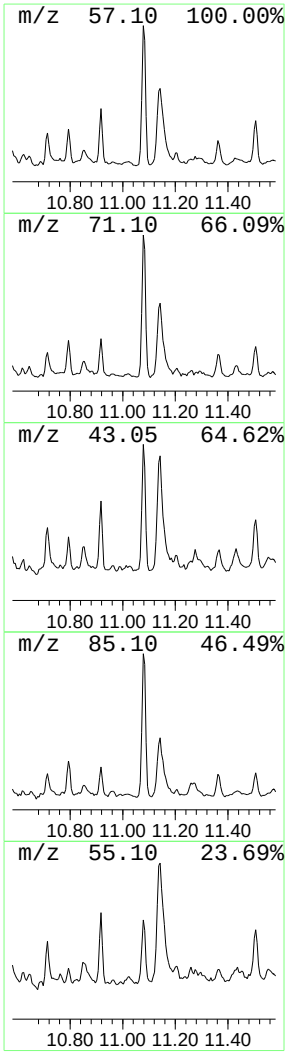
Peak Number 9 Alkane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.078	6.57 ppm	702835	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	91
2	Heptacosane	380	C27H56	000593-49-7	91
3	Heneicosane	296	C21H44	000629-94-7	90
4	Docosane, 11-butyl-	366	C26H54	013475-76-8	87
5	Octacosane	394	C28H58	000630-02-4	87





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Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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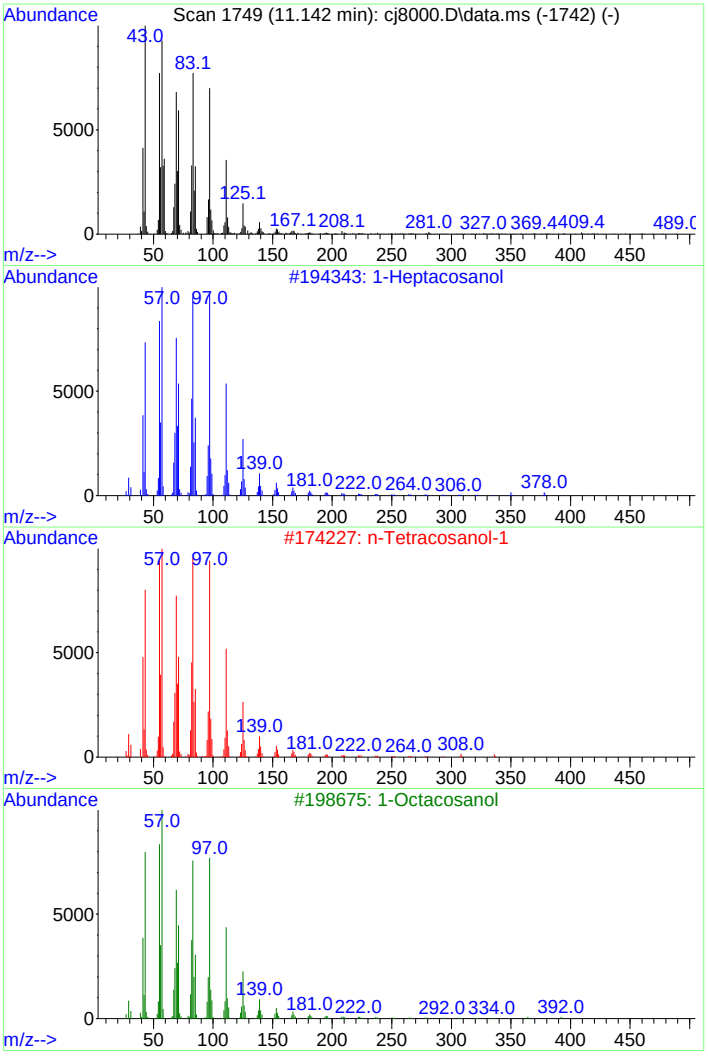
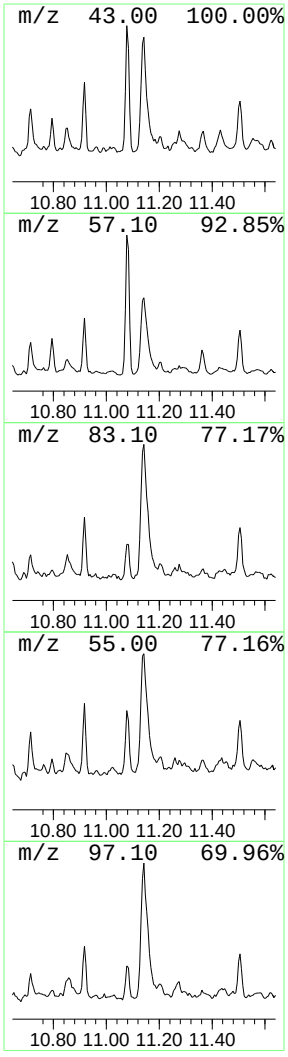
Peak Number 10 Unknown alcohol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.142	13.41 ppm	1435350	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heptacosanol	396	C27H56O	002004-39-9	93
2	n-Tetracosanol-1	354	C24H50O	000506-51-4	91
3	1-Octacosanol	410	C28H58O	1000351-79-2	87
4	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	83
5	17-Pentatriacontene	491	C35H70	006971-40-0	83





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Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
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Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

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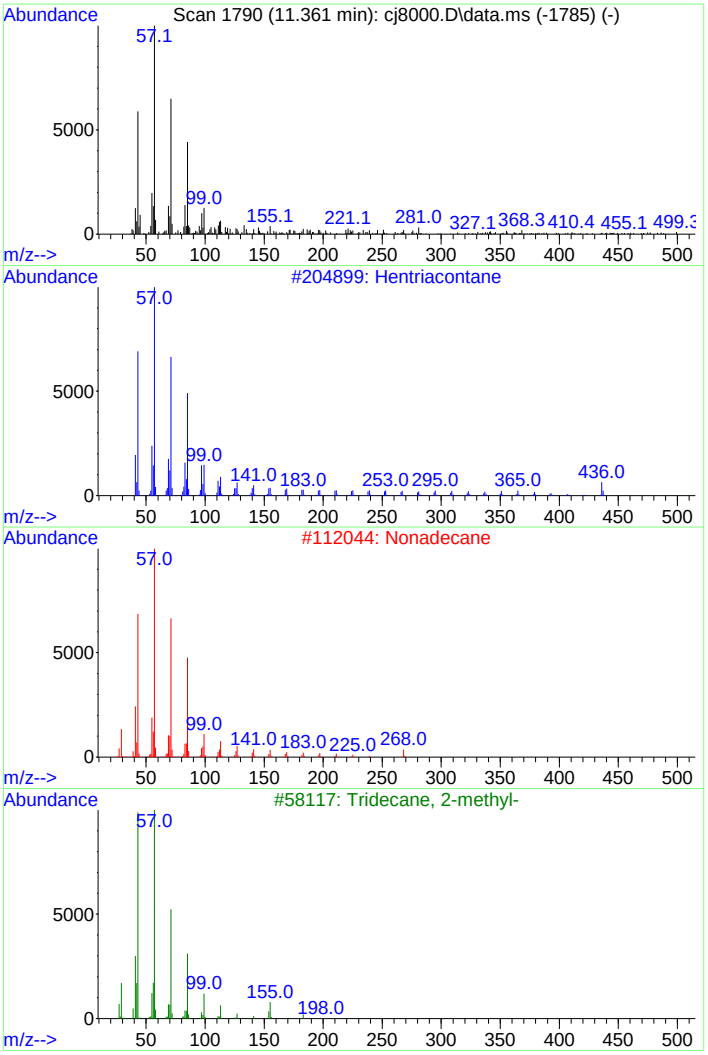
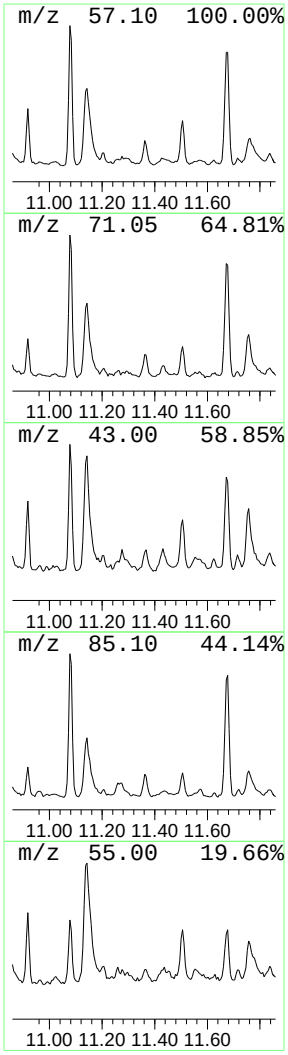
Peak Number 11 Alkane Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.361	4.85 ppm	519369	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hentriacontane	437	C31H64	000630-04-6	87
2	Nonadecane	268	C19H40	000629-92-5	87
3	Tridecane, 2-methyl-	198	C14H30	001560-96-9	81
4	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	80
5	Hentriacontane	437	C31H64	000630-04-6	76





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Data File : cj8000.D
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Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
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TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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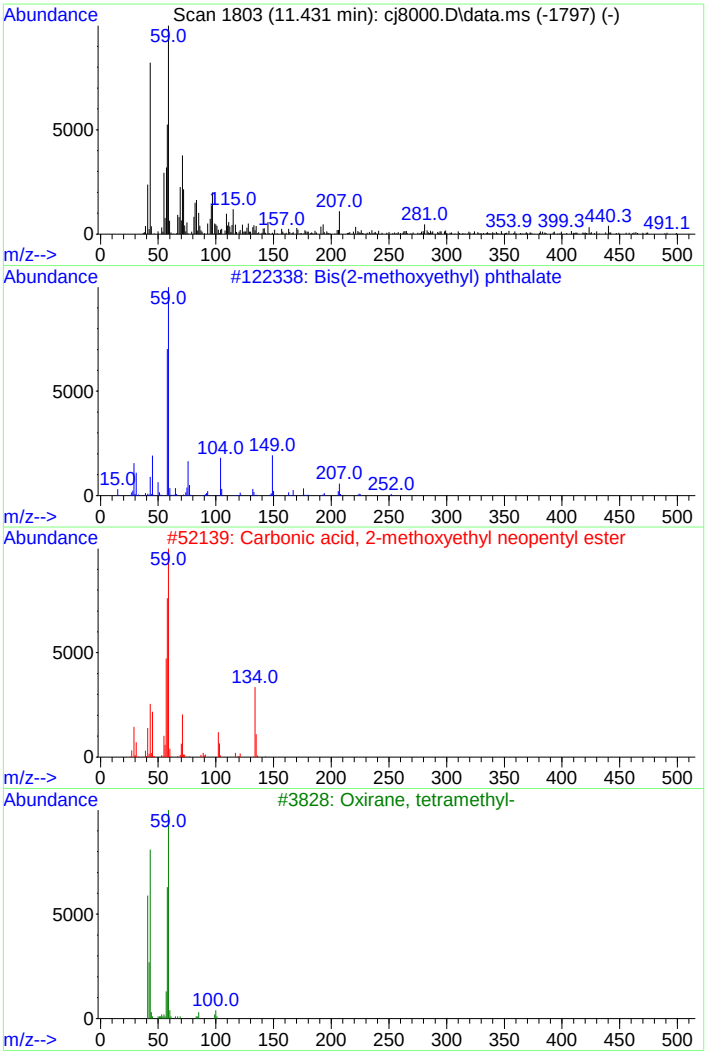
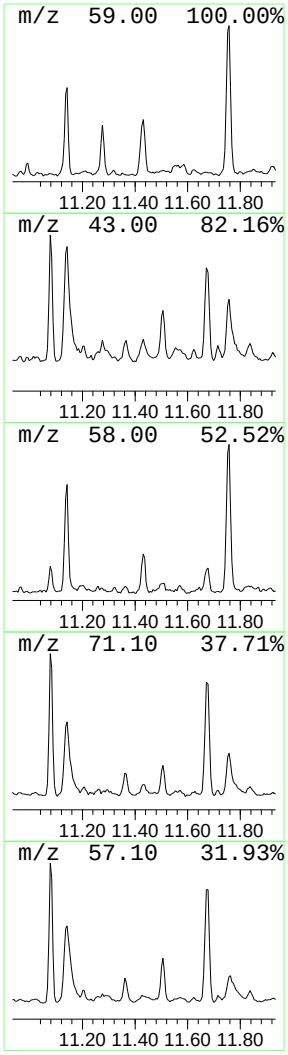
Peak Number 12 Unknown Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.431	5.94 ppm	635268	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bis(2-methoxyethyl) phthalate	282	C14H18O6	000117-82-8	50
2	Carbonic acid, 2-methoxyethyl ne...	190	C9H18O4	1000331-42-7	50
3	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	49
4	4,5-Dimethyl-3-heptanol	144	C9H20O	019549-76-9	38
5	(2,3,3-Trimethyloxiranyl)methanol	116	C6H12O2	1000306-64-7	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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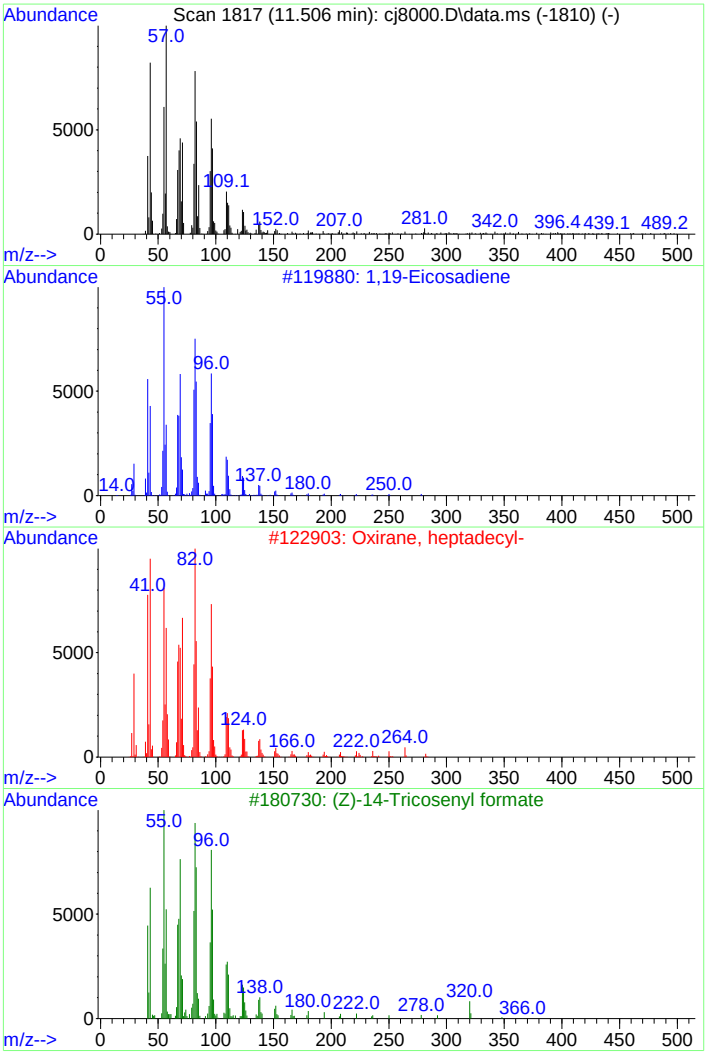
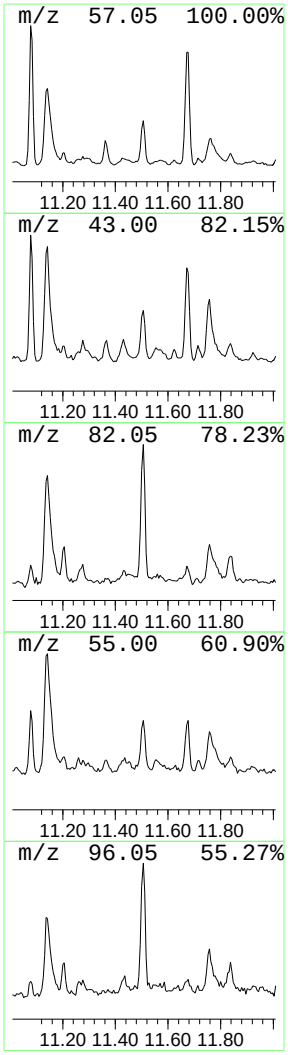
Peak Number 13 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.506	7.09 ppm	758763	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,19-Eicosadiene	278	C20H38	014811-95-1	95
2	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	94
3	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	93
4	Octadecanal	268	C18H36O	000638-66-4	91
5	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91





Library Search Compound Report

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Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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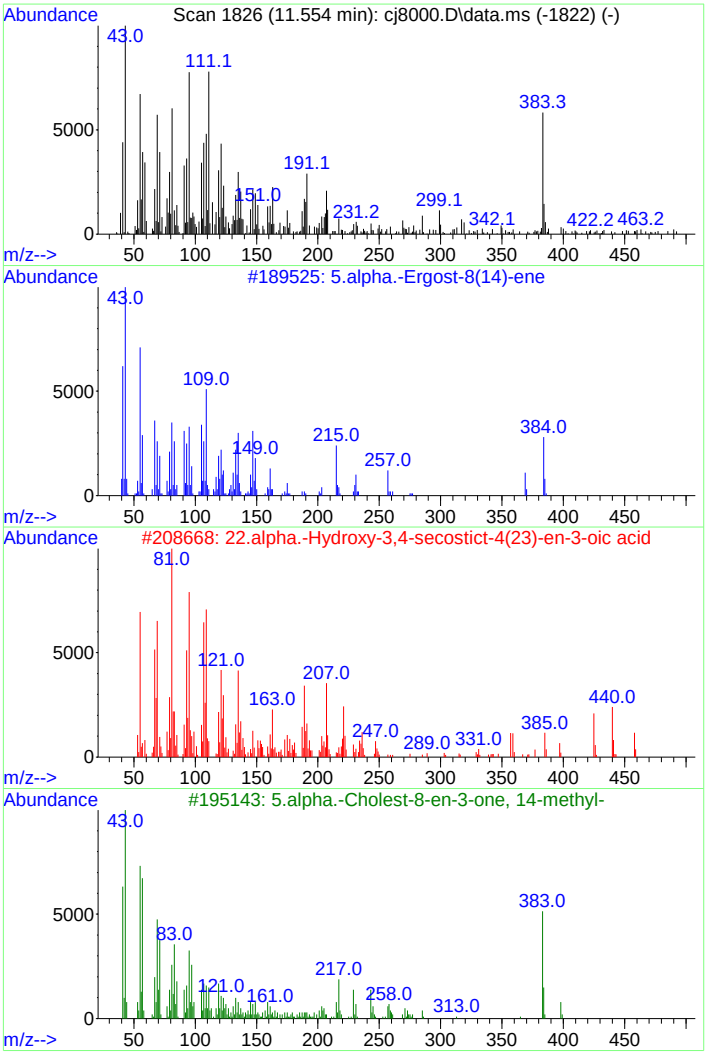
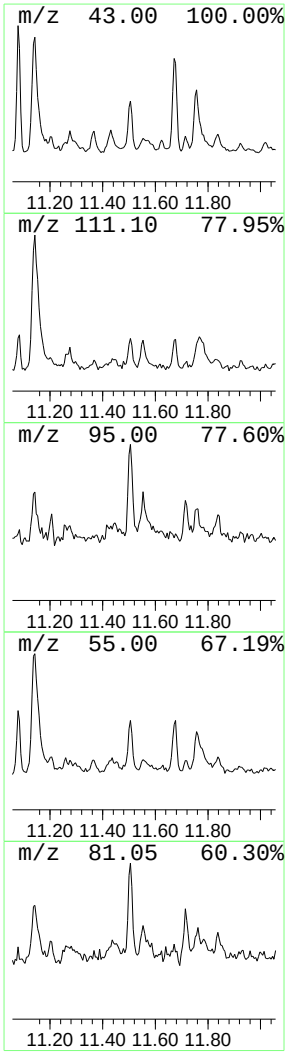
Peak Number 14 Unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.554	6.30 ppm	674469	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5.alpha.-Ergost-8(14)-ene	384	C28H48	006673-69-4	53
2	22.alpha.-Hydroxy-3,4-secostict-...	458	C30H50O3	069773-95-1	27
3	5.alpha.-Cholest-8-en-3-one, 14-...	398	C28H46O	005234-53-7	12
4	Oxacyclotriacontane-4,13,19,28-t...	478	C29H50O5	056613-38-8	9
5	2-Furancarboxamide, N-[7-(2-chlo...	383	C20H14ClNO5	1000319-07-5	9





Library Search Compound Report

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Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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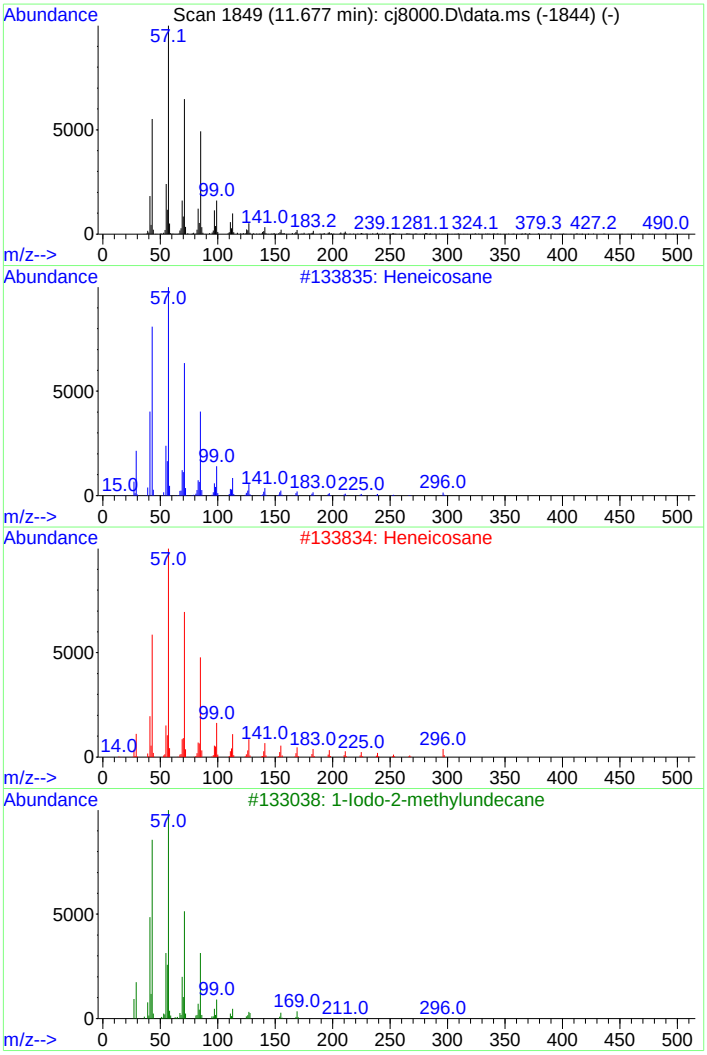
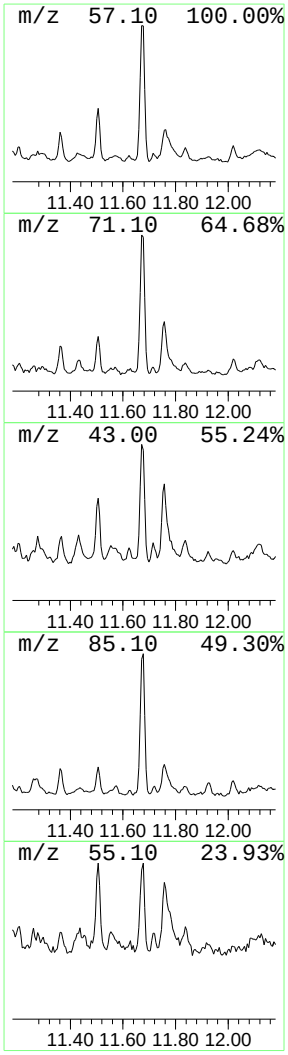
Peak Number 15 Alkane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.677	6.25 ppm	668712	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	95
2	Heneicosane	296	C21H44	000629-94-7	93
3	1-Iodo-2-methylundecane	296	C12H25I	073105-67-6	91
4	Eicosane, 3-methyl-	296	C21H44	006418-46-8	91
5	Nonadecane	268	C19H40	000629-92-5	87





Library Search Compound Report

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Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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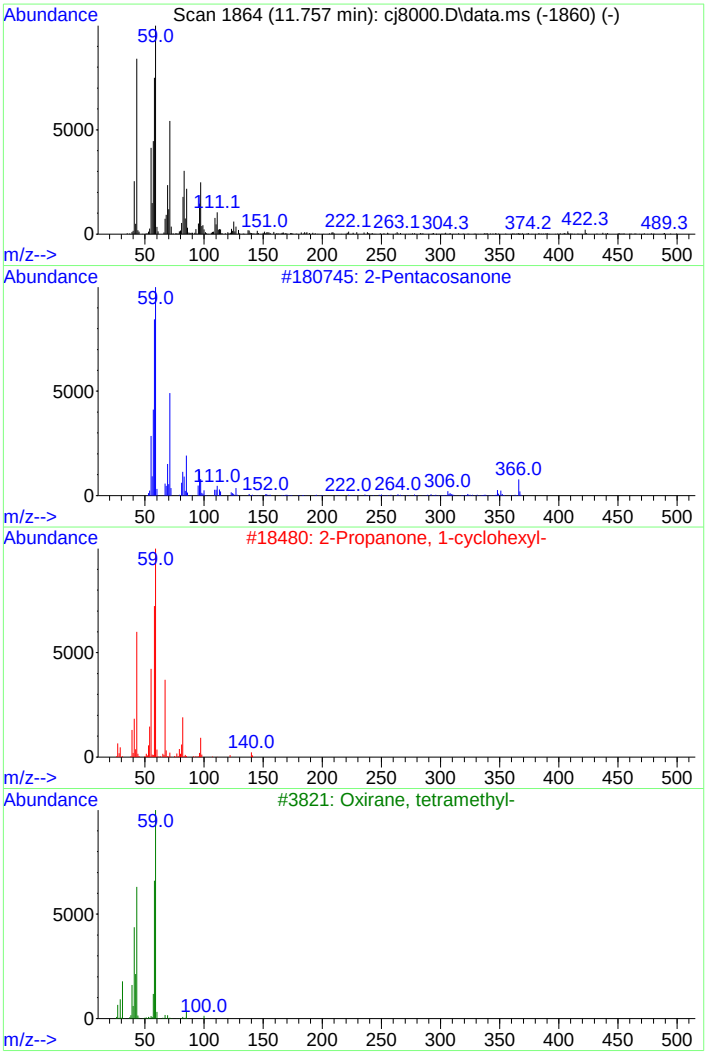
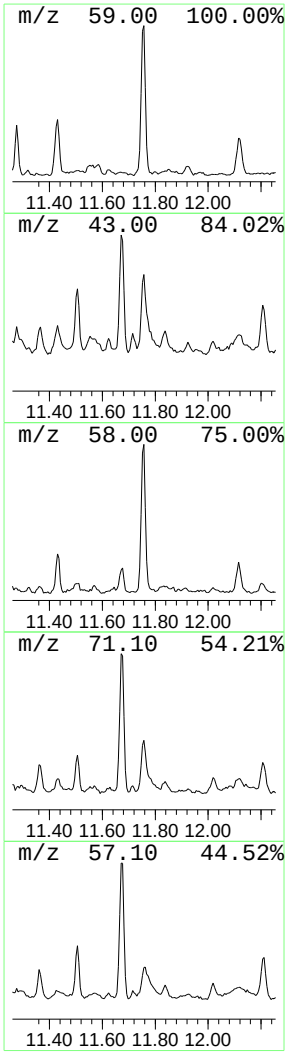
Peak Number 16 Unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.757	8.88 ppm	950239	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentacosanone	366	C25H50O	075207-54-4	80
2	2-Propanone, 1-cyclohexyl-	140	C9H16O	000103-78-6	43
3	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	43
4	2-Tridecanone	198	C13H26O	000593-08-8	43
5	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	43





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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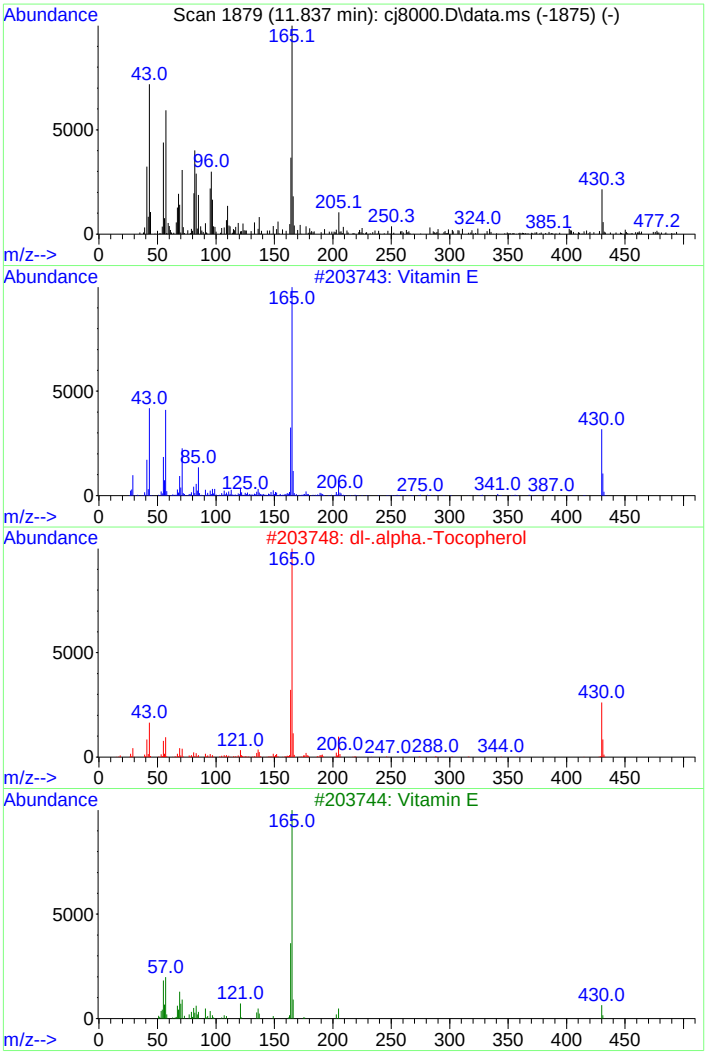
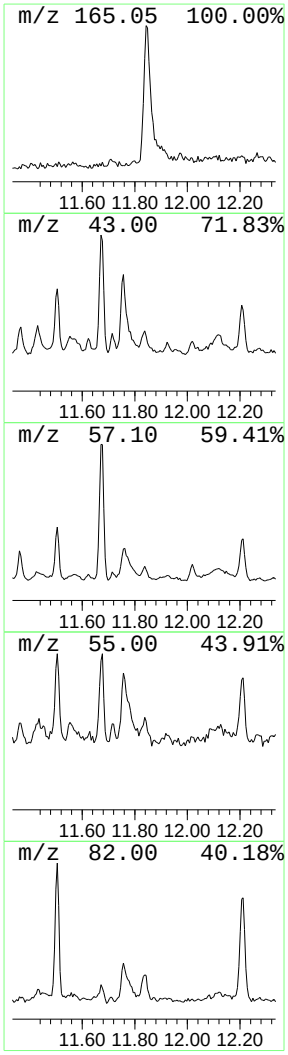
Peak Number 17 Vitamin E Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.837	5.08 ppm	543394	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Vitamin E	430	C29H50O2	000059-02-9	70
2	dl-.alpha.-Tocopherol	430	C29H50O2	010191-41-0	55
3	Vitamin E	430	C29H50O2	000059-02-9	47
4	Vitamin E	430	C29H50O2	000059-02-9	46
5	3,6-Dimethyl-5-oxo-1,2,3,5-tetra...	165	C8H11N3O	058910-42-2	43





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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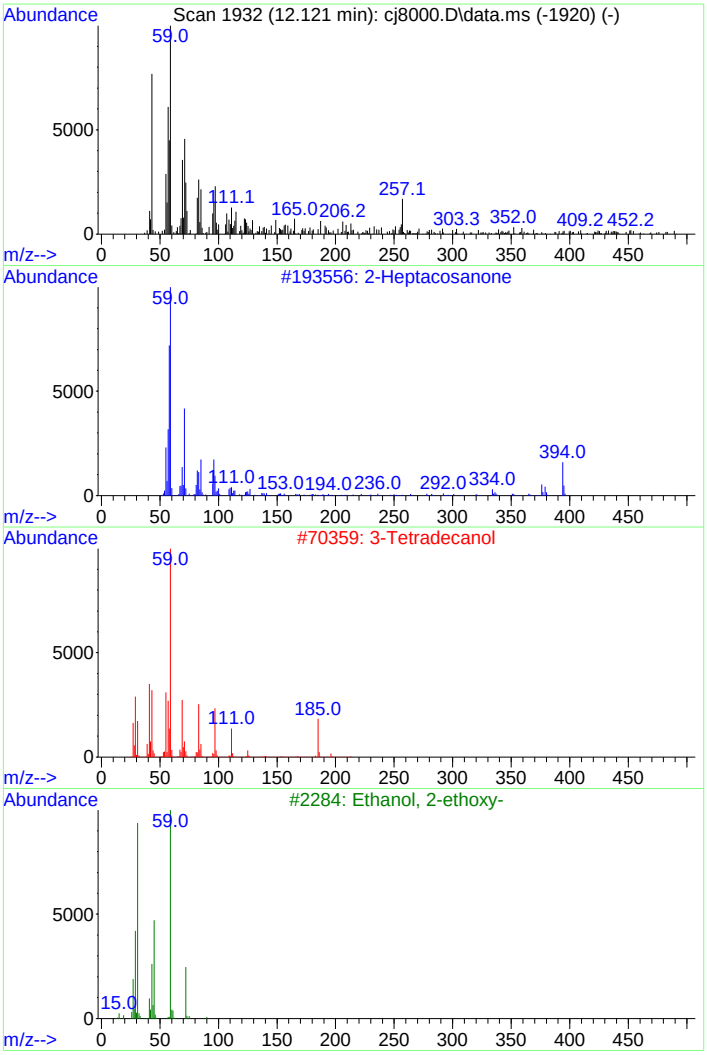
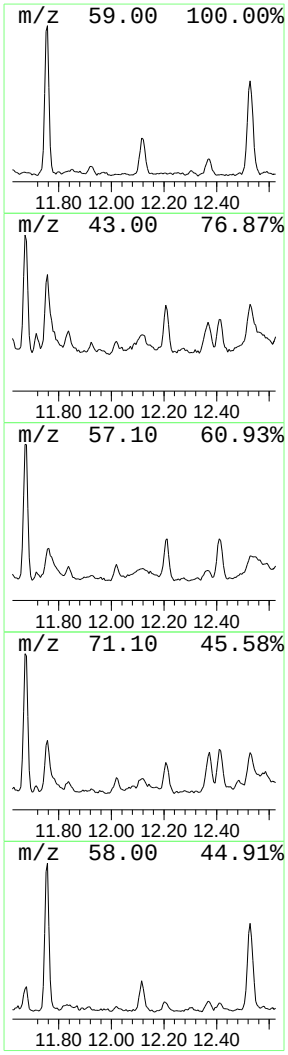
Peak Number 18 Unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.121	7.71 ppm	825066	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptacosanone	394	C27H54O	007796-19-2	52
2	3-Tetradecanol	214	C14H30O	001653-32-3	38
3	Ethanol, 2-ethoxy-	90	C4H10O2	000110-80-5	27
4	Hexadecane	226	C16H34	000544-76-3	25
5	1-Heptadecanamine	255	C17H37N	004200-95-7	25





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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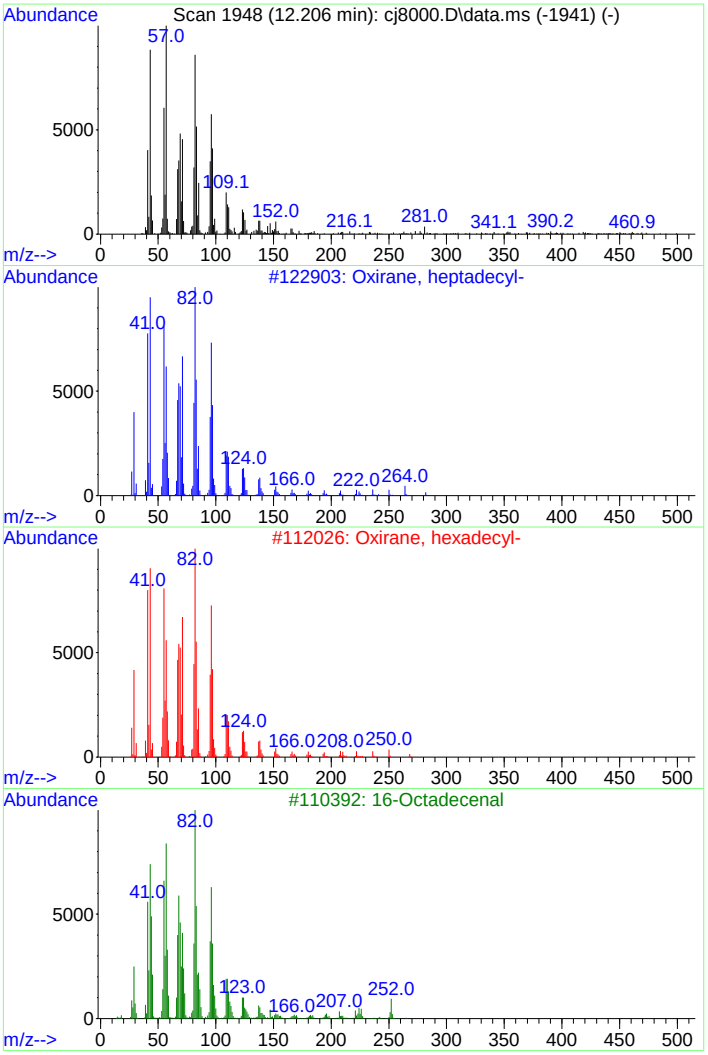
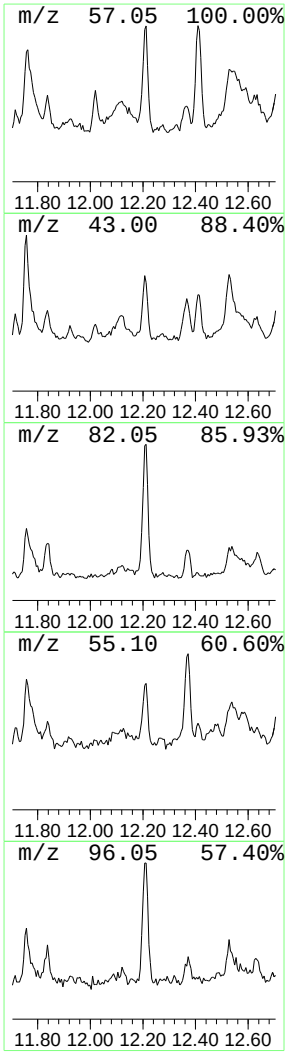
Peak Number 19 Unknown alcohol Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.206	6.05 ppm	647119	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	90
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	90
3	16-Octadecenal	266	C18H34O	056554-87-1	89
4	Octadecanal	268	C18H36O	000638-66-4	87
5	Octadecanal	268	C18H36O	000638-66-4	83





Library Search Compound Report

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Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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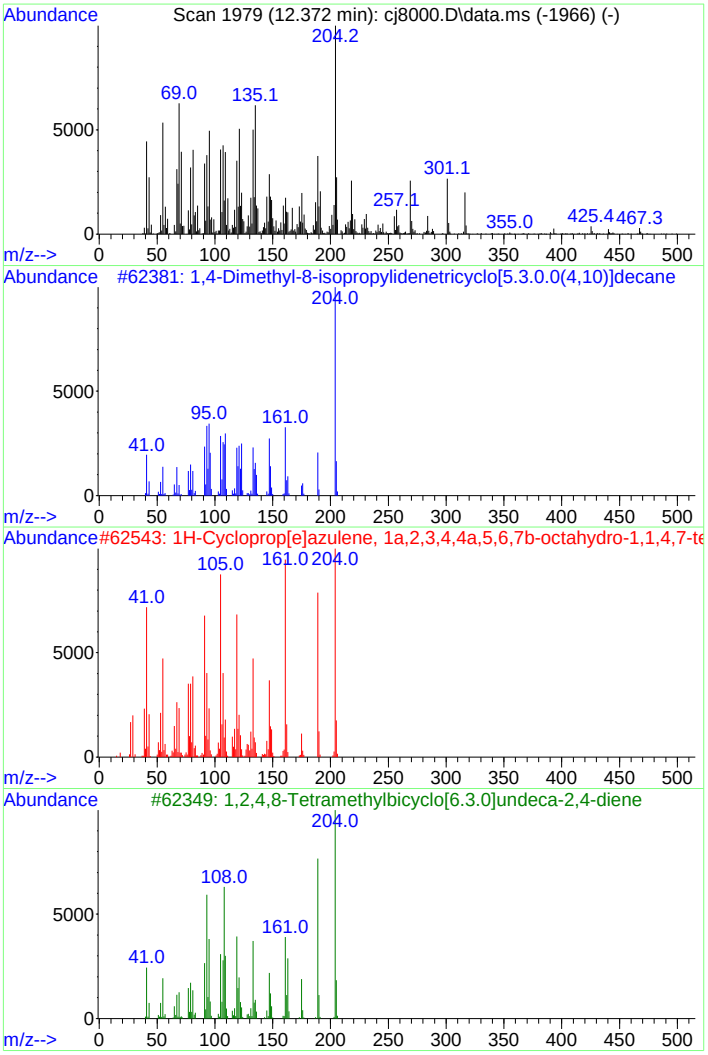
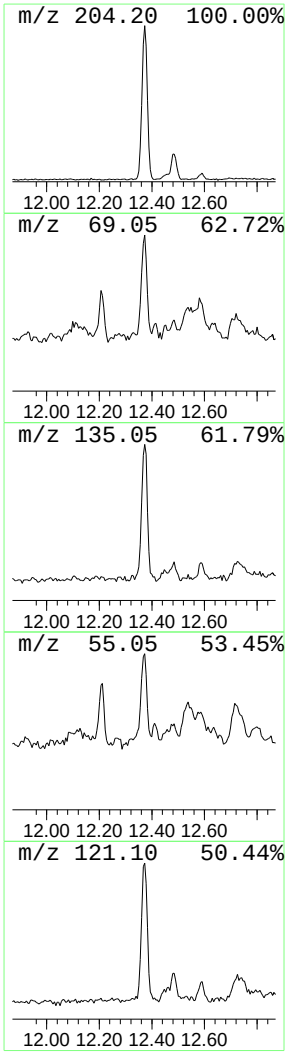
Peak Number 20 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.372	13.67 ppm	1462870	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1000140-07-7	58
2	1H-Cycloprop[e]azulene, 1a,2,3,4...	204	C15H24	000489-40-7	50
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
4	1H-3a,7-Methanoazulene, 2,3,6,7,...	204	C15H24	000560-32-7	45
5	1-Naphthalenecarboxylic acid, de...	316	C21H32O2	001235-39-8	45





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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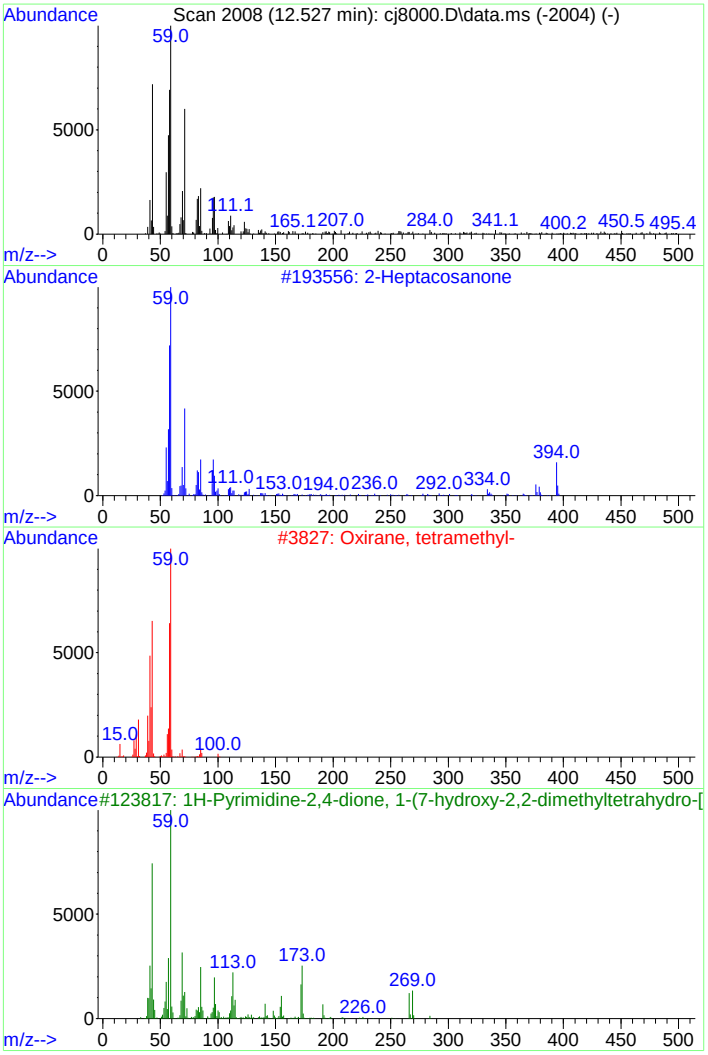
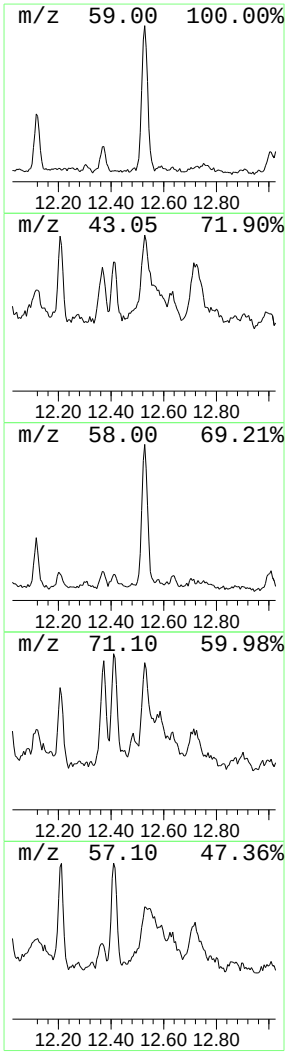
Peak Number 21 Unknown Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.527	5.74 ppm	614645	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptacosanone	394	C27H54O	007796-19-2	90
2	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	47
3	1H-Pyrimidine-2,4-dione, 1-(7-hy...	284	C12H16N2O6	1000310-12-9	43
4	3-Tridecanol	200	C13H28O	010289-68-6	38
5	Octanal, 7-hydroxy-3,7-dimethyl-	172	C10H20O2	000107-75-5	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
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Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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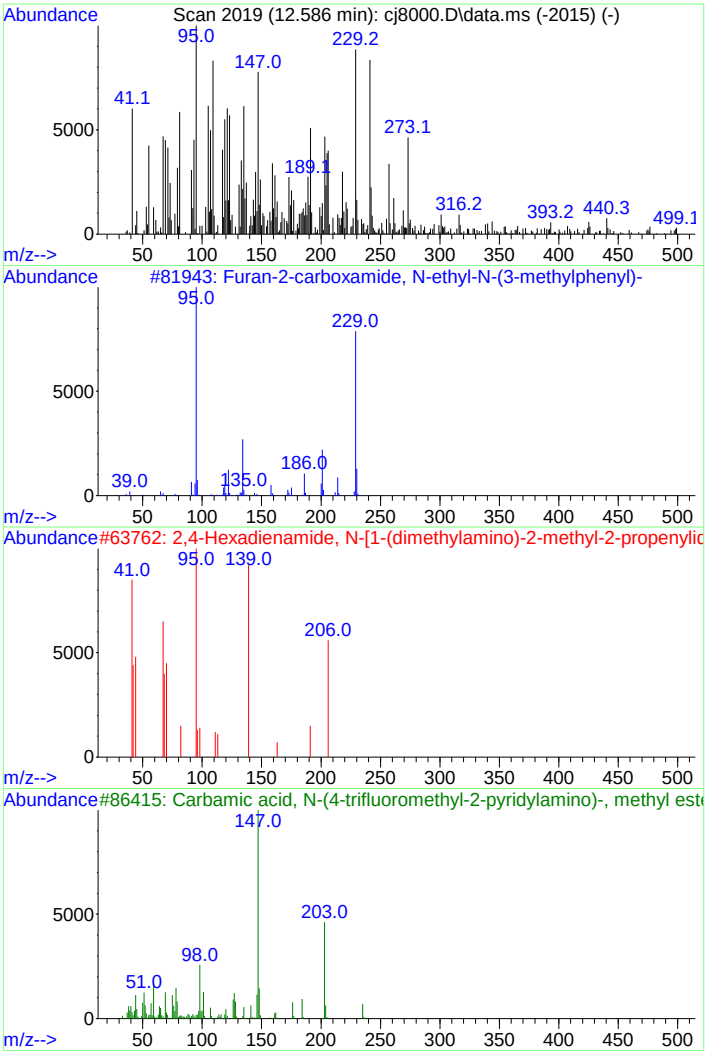
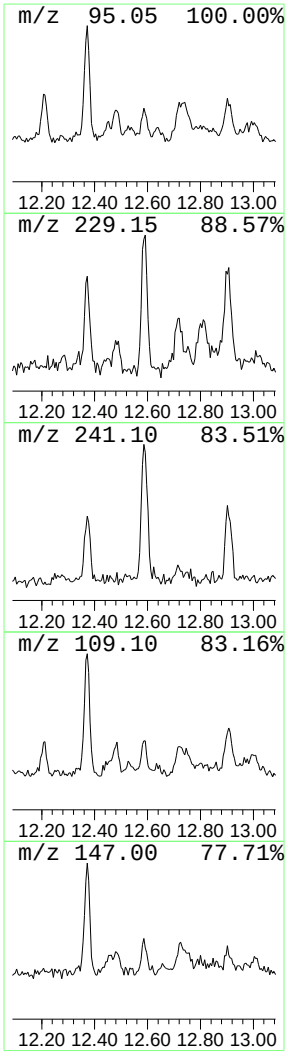
Peak Number 22 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.586	5.12 ppm	547988	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan-2-carboxamide, N-ethyl-N-(...	229	C14H15NO2	1000308-20-3	25
2	2,4-Hexadienamide, N-[1-(dimethy...	206	C12H18N2O	075378-92-6	25
3	Carbamic acid, N-(4-trifluoromet...	235	C8H8F3N3O2	1000266-91-9	15
4	Morpholine, 4-(4-chloro-1,2,5-th...	205	C6H8ClN3OS	030165-96-9	15
5	1-Isopropenyl-4,5-dimethylbicycl...	330	C21H30OS	1000195-85-4	12





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
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Sample : jd91204-17
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ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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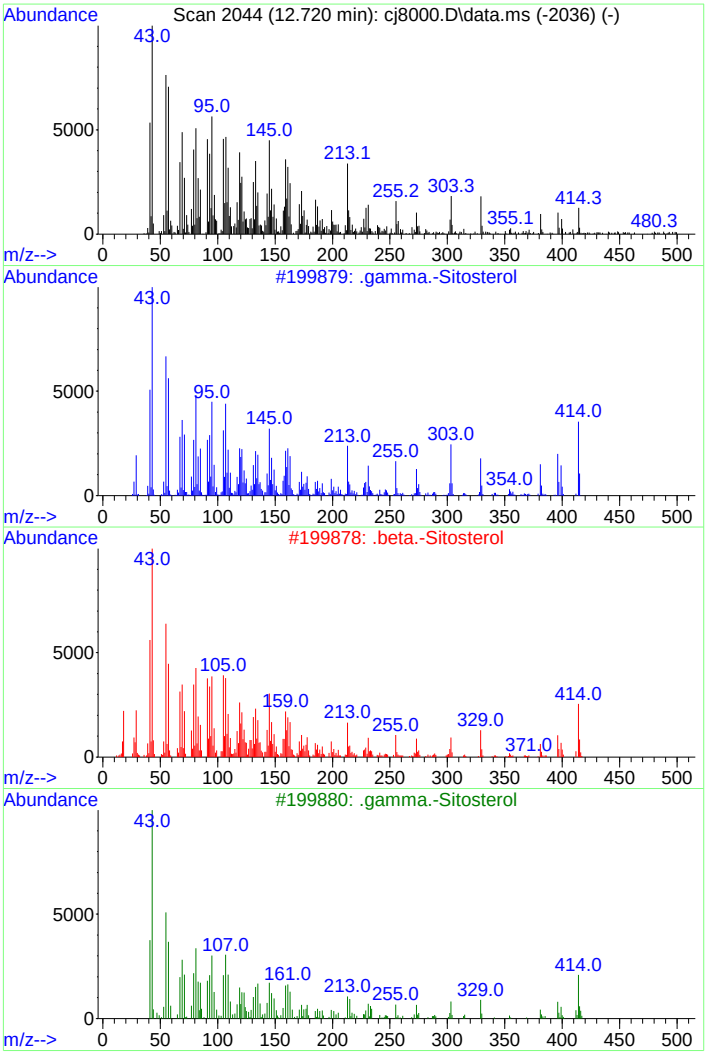
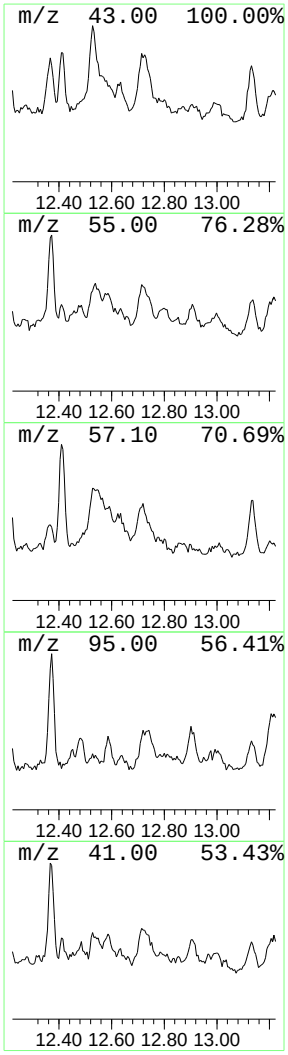
Peak Number 23 Sitosterol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.720	9.24 ppm	988903	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	95
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	94
3	.gamma.-Sitosterol	414	C29H50O	000083-47-6	64
4	.beta.-Sitosterol	414	C29H50O	000083-46-5	60
5	Isocholesteryl methyl ether	400	C28H48O	029944-53-4	59





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

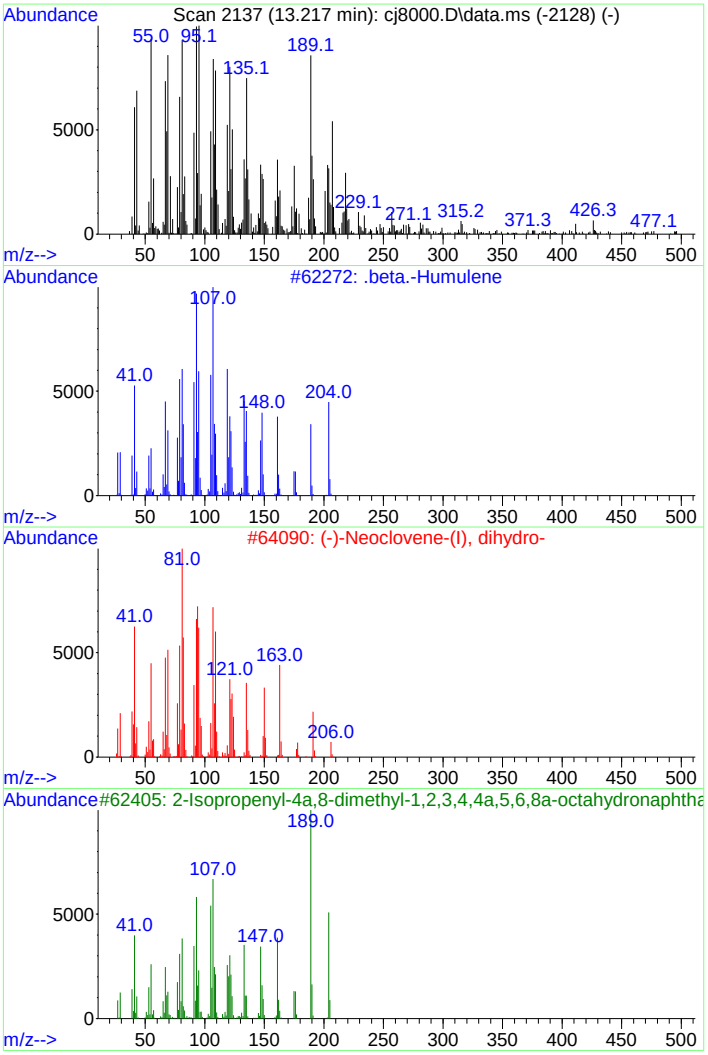
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

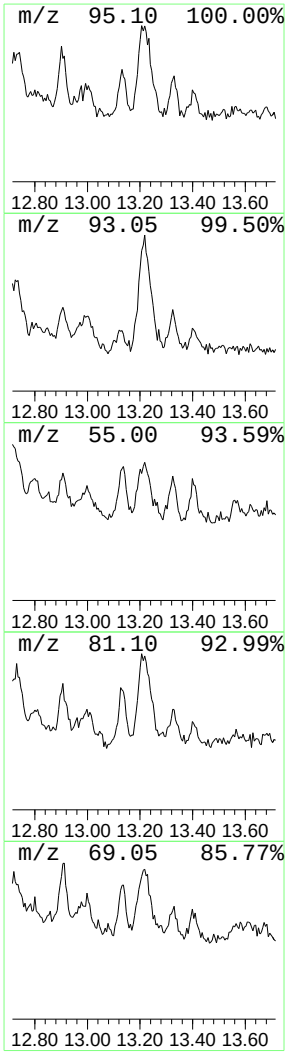
****

Peak Number 24 Unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.217	7.08 ppm	758119	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Humulene	204	C15H24	000116-04-1	93
2	(-)-Neoclovene-(I), dihydro-	206	C15H26	1000152-82-1	87
3	2-Isopropenyl-4a,8-dimethyl-1,2,...	204	C15H24	1000193-57-0	72
4	Naphthalene, 1,2,3,5,6,7,8,8a-oc...	204	C15H24	010219-75-7	70
5	Azulene, 1,2,3,5,6,7,8,8a-octahy...	204	C15H24	003691-11-0	51





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

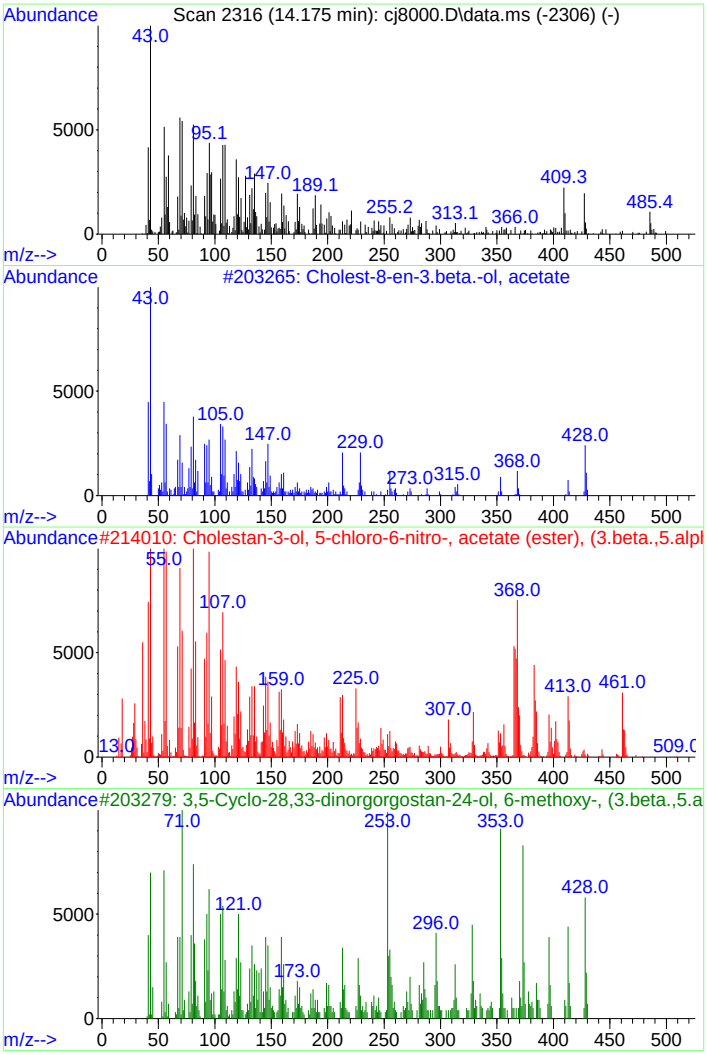
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

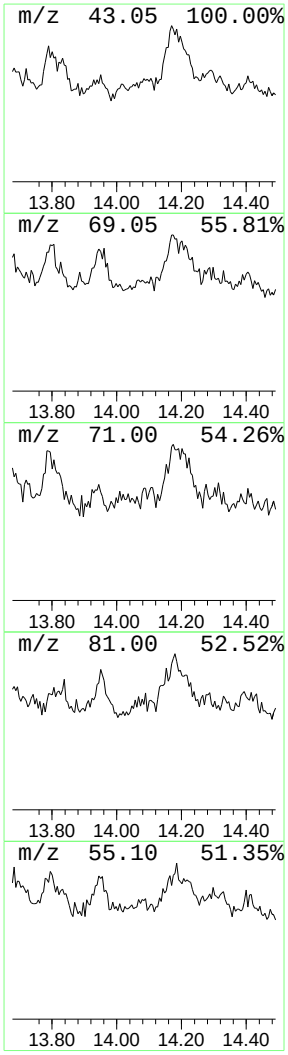
****

Peak Number 25 Unknown Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.175	4.91 ppm	525164	Perylene-d12	11.276

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cholest-8-en-3.beta.-ol, acetate	428	C29H48O2	017137-74-5	47
2	Cholestan-3-ol, 5-chloro-6-nitro...	509	C29H48ClNO4	001431-22-7	38
3	3,5-Cyclo-28,33-dinorgorgostan-2...	428	C29H48O2	056298-03-4	30
4	Silane, trimethyl[[(3.beta.,4.al...	470	C31H54OSi	055429-69-1	23
5	3a-Cholesterol acetate	428	C29H48O2	001059-85-4	10





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\ECJ348\
Data File : cj8000.D
Acq On : 01 Jul 2024 04:50 pm
Operator : karimam
Sample : jd91204-17
Misc : op55759,ecj348,31.3,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
n-Hexadecanoic ...	7.992	8.6	ppm	797262	8	7.489	3704040	40.0
Unknown acid	8.655	5.7	ppm	531771	8	7.489	3704040	40.0
Octadecanoic acid	8.735	6.2	ppm	543472	9	9.965	3517210	40.0
Unknown alcohol	9.906	15.7	ppm	1381280	9	9.965	3517210	40.0
Unknown alcohol	10.543	17.7	ppm	1552550	10	9.965	3517210	40.0
Unknown acid	10.714	5.5	ppm	590417	11	11.276	4280500	40.0
Unknown	10.848	6.1	ppm	654894	11	11.276	4280500	40.0
Unknown alcohol	10.917	5.0	ppm	534998	11	11.276	4280500	40.0
Alkane	11.078	6.6	ppm	702835	11	11.276	4280500	40.0
Unknown alcohol	11.142	13.4	ppm	1435350	11	11.276	4280500	40.0
Alkane	11.361	4.8	ppm	519369	11	11.276	4280500	40.0
Unknown	11.431	5.9	ppm	635268	11	11.276	4280500	40.0
Unknown	11.506	7.1	ppm	758763	11	11.276	4280500	40.0
Unknown	11.554	6.3	ppm	674469	11	11.276	4280500	40.0
Alkane	11.677	6.3	ppm	668712	11	11.276	4280500	40.0
Unknown	11.757	8.9	ppm	950239	11	11.276	4280500	40.0
Vitamin E	11.837	5.1	ppm	543394	11	11.276	4280500	40.0
Unknown	12.121	7.7	ppm	825066	11	11.276	4280500	40.0
Unknown alcohol	12.206	6.0	ppm	647119	11	11.276	4280500	40.0
Unknown	12.372	13.7	ppm	1462870	11	11.276	4280500	40.0
Unknown	12.527	5.7	ppm	614645	11	11.276	4280500	40.0
Unknown	12.586	5.1	ppm	547988	11	11.276	4280500	40.0
Sitosterol	12.720	9.2	ppm	988903	11	11.276	4280500	40.0
Unknown	13.217	7.1	ppm	758119	11	11.276	4280500	40.0
Unknown	14.175	4.9	ppm	525164	11	11.276	4280500	40.0

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220737.D
Acq On : 29 Jun 2024 2:36 pm
Operator : kristis
Sample : jd91204-18 Inst : GCMSF
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 01:25:16 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 01 01:11:40 2024
Response via : Initial Calibration

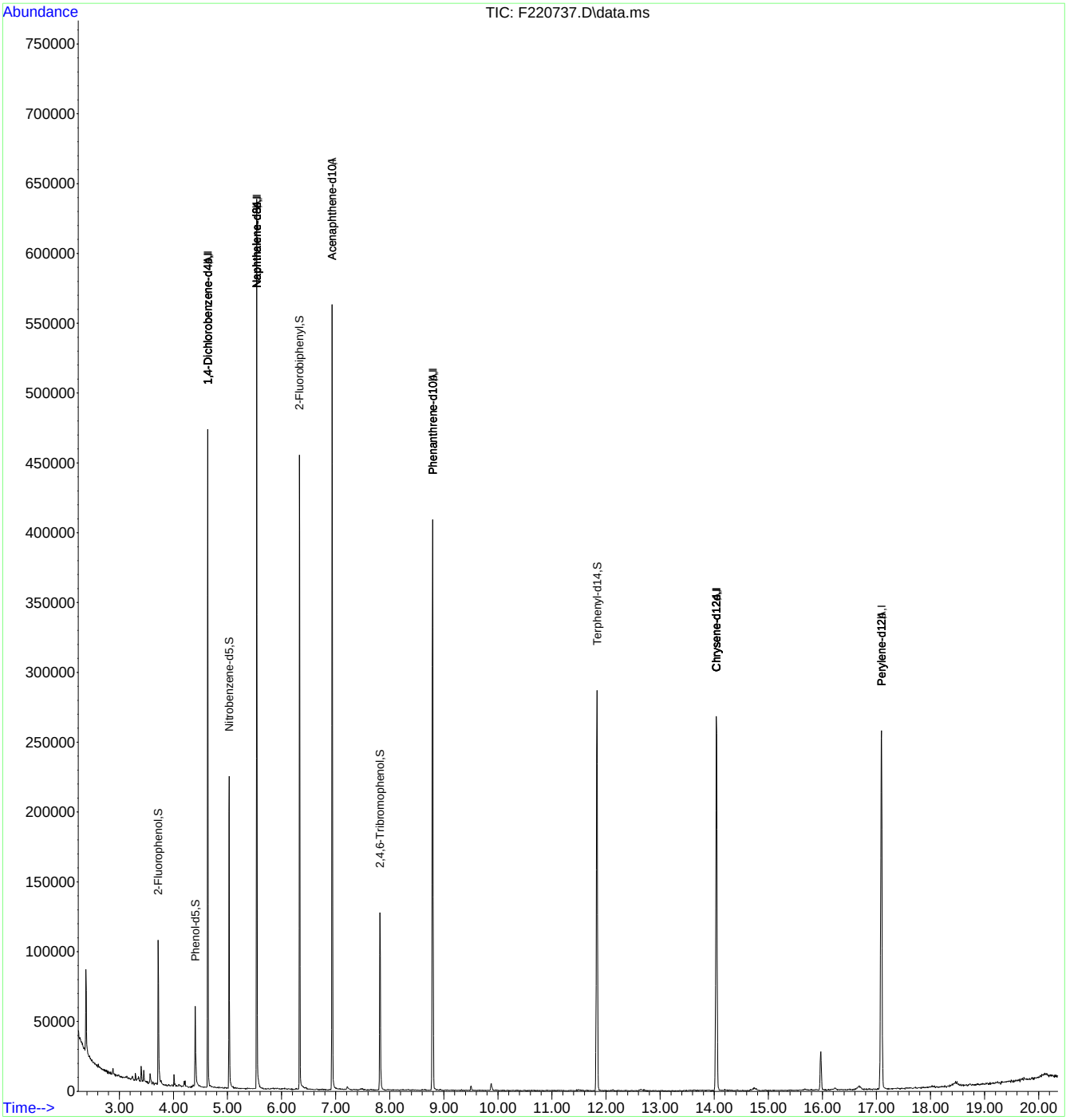
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.636	152	55232	40.00	ppm	0.00
24) Naphthalene-d8	5.539	136	215949	40.00	ppm	0.00
46) Acenaphthene-d10	6.933	164	111905	40.00	ppm	0.00
69) Phenanthrene-d10	8.792	188	188049	40.00	ppm	-0.01
83) Chrysene-d12	14.038	240	146876	40.00	ppm	-0.02
92) Perylene-d12	17.094	264	160866	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.636	152	55232	40.00	ppm	0.00
112) Naphthalene-d8A	5.539	136	215949	40.00	ppm	0.00
121) Acenaphthene-d10A	6.933	164	111905	40.00	ppm	0.00
132) Phenanthrene-d10A	8.792	188	188049	40.00	ppm	-0.01
147) Chrysene-d12A	14.038	240	146876	40.00	ppm	-0.02
154) Perylene-d12A	17.094	264	160866	40.00	ppm	-0.01
157) 1,4-Dichlorobenzene-d4b	4.636	152	55232	40.00	ppm	0.00
159) Phenanthrene-d10b	8.792	188	188049	40.00	ppm	-0.01
161) Naphthalene-d8b	5.539	136	215949	40.00	ppm	0.00
163) Naphthalene-d8c	5.539	136	215949	40.00	ppm	0.00
167) 1,4-Dichlorobenzene-d4c	4.636	152	55232	40.00	ppm	0.00
169) Chrysene-d12c	14.038	240	146876	40.00	ppm	-0.02
171) Chrysene-d12d	14.038	240	146876	40.00	ppm	-0.02
173) Naphthalene-d8d	5.539	136	215949	40.00	ppm	0.00
175) Chrysene-d12e	14.038	240	146876	40.00	ppm	-0.02
177) Perylene-d12b	17.094	264	160866	40.00	ppm	-0.01
179) Naphthalene-d8e	5.539	136	215949	40.00	ppm	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.717	112	28739	17.78	ppm	0.00
Spiked Amount 50.000			Recovery = 35.56%			
8) Phenol-d5	4.401	99	20760	10.73	ppm	0.00
Spiked Amount 50.000			Recovery = 21.46%			
25) Nitrobenzene-d5	5.031	82	59320	32.21	ppm	0.00
Spiked Amount 50.000			Recovery = 64.42%			
51) 2-Fluorobiphenyl	6.330	172	123651	34.65	ppm	0.00
Spiked Amount 50.000			Recovery = 69.30%			
73) 2,4,6-Tribromophenol	7.820	330	15270	39.08	ppm	0.00
Spiked Amount 50.000			Recovery = 78.16%			
86) Terphenyl-d14	11.832	244	140309	38.44	ppm	-0.01
Spiked Amount 50.000			Recovery = 76.88%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220737.D
Acq On : 29 Jun 2024 2:36 pm
Operator : kristis
Sample : jd91204-18 Inst : GCMSF
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 01:25:16 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 01 01:11:40 2024
Response via : Initial Calibration



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220737.D
Acq On : 29 Jun 2024 2:36 pm
Operator : kristis
Sample : jd91204-18
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 200
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: F220737.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.519	240	241	244	rVB3	2126	1536	0.32%	0.037%
2	3.568	244	250	257	rVV4	7760	10747	2.23%	0.258%
3	3.621	257	260	264	rVB3	2423	3126	0.65%	0.075%
4	3.658	264	267	269	rBV3	1302	1660	0.34%	0.040%
5	3.680	269	271	275	rVV4	1538	1682	0.35%	0.040%
6	3.717	275	278	286	rVV	103899	95450	19.82%	2.288%
7	3.771	286	288	296	rVV5	3677	5318	1.10%	0.127%
8	3.824	296	298	302	rVB3	996	1012	0.21%	0.024%
9	3.909	310	314	318	rVB4	1283	1467	0.30%	0.035%
10	3.974	323	326	329	rVV3	1433	1333	0.28%	0.032%
11	4.011	329	333	339	rVV2	8710	7587	1.58%	0.182%
12	4.059	339	342	344	rVV	1115	1017	0.21%	0.024%
13	4.096	347	349	354	rVV4	1959	2994	0.62%	0.072%
14	4.128	354	355	359	rVV3	1138	1107	0.23%	0.027%
15	4.161	359	361	364	rVV3	907	1097	0.23%	0.026%
16	4.198	364	368	370	rVV3	4567	3987	0.83%	0.096%
17	4.214	370	371	374	rVV	4708	2750	0.57%	0.066%
18	4.235	374	375	383	rVB6	1207	1946	0.40%	0.047%
19	4.364	394	399	401	rBV4	1955	2293	0.48%	0.055%
20	4.401	401	406	432	rVB	58117	66577	13.82%	1.596%
21	4.572	437	438	444	rBV5	712	1030	0.21%	0.025%
22	4.636	444	450	456	rVV	471435	333021	69.14%	7.983%
23	4.684	456	459	464	rVV5	1818	2968	0.62%	0.071%
24	4.716	464	465	470	rVV4	881	1056	0.22%	0.025%
25	4.764	470	474	482	rVB5	1021	2032	0.42%	0.049%
26	4.828	482	486	488	rVB5	876	866	0.18%	0.021%
27	4.850	488	490	495	rBV3	846	1007	0.21%	0.024%
28	4.962	510	511	514	rVB2	1043	955	0.20%	0.023%
29	4.994	514	517	520	rBV4	851	1119	0.23%	0.027%
30	5.031	520	524	535	rVV	223844	181852	37.75%	4.359%
31	5.106	535	538	541	rVV4	1667	1686	0.35%	0.040%
32	5.149	544	546	548	rVB3	978	810	0.17%	0.019%
33	5.170	548	550	555	rBV3	748	1042	0.22%	0.025%
34	5.368	585	587	591	rBV4	862	1064	0.22%	0.026%
35	5.539	613	619	639	rBV	637156	429855	89.24%	10.304%
36	6.009	704	707	709	rBV2	826	781	0.16%	0.019%
37	6.057	715	716	721	rBV4	953	865	0.18%	0.021%
38	6.121	725	728	734	rBV6	837	1380	0.29%	0.033%
39	6.244	745	751	752	rBV2	524	834	0.17%	0.020%
40	6.271	752	756	758	rBV3	1042	967	0.20%	0.023%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220737.D
Acq On : 29 Jun 2024 2:36 pm
Operator : kristis
Sample : jd91204-18
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 200
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Title : Semi Volatile Extractables by GC/MS

41	6.330	761	767	779	rBV	454452	356123	73.93%	8.537%
42	6.447	786	789	796	rVB4	1650	2577	0.54%	0.062%
43	6.522	800	803	807	rVB3	635	821	0.17%	0.020%
44	6.639	822	825	831	rVB3	634	1133	0.24%	0.027%
45	6.933	873	880	894	rBV	562363	481676	100.00%	11.546%
46	7.013	894	895	901	rVB4	1009	1029	0.21%	0.025%
47	7.216	927	933	944	rVV4	2436	5071	1.05%	0.122%
48	7.334	948	955	960	rBV3	840	1491	0.31%	0.036%
49	7.377	960	963	967	rVB3	788	868	0.18%	0.021%
50	7.499	985	986	990	rVB2	1287	1004	0.21%	0.024%
51	7.596	1001	1004	1008	rBV2	788	1063	0.22%	0.025%
52	7.644	1008	1013	1014	rVV3	912	1106	0.23%	0.027%
53	7.670	1017	1018	1023	rVB2	695	803	0.17%	0.019%
54	7.745	1028	1032	1034	rBV2	644	867	0.18%	0.021%
55	7.820	1040	1046	1063	rVB	127155	143641	29.82%	3.443%
56	8.039	1086	1087	1091	rBV	657	816	0.17%	0.020%
57	8.151	1103	1108	1112	rVB3	709	1361	0.28%	0.033%
58	8.194	1112	1116	1118	rBV2	697	819	0.17%	0.020%
59	8.477	1165	1169	1173	rVB3	702	1046	0.22%	0.025%
60	8.525	1173	1178	1183	rBV3	546	972	0.20%	0.023%
61	8.792	1219	1228	1241	rBV	408719	462812	96.08%	11.094%
62	8.883	1241	1245	1251	rVV4	739	1506	0.31%	0.036%
63	8.926	1251	1253	1259	rVB3	1172	1456	0.30%	0.035%
64	9.027	1265	1272	1276	rBV3	632	1339	0.28%	0.032%
65	9.059	1276	1278	1286	rVV4	631	1153	0.24%	0.028%
66	9.177	1296	1300	1303	rVB3	786	1245	0.26%	0.030%
67	9.327	1323	1328	1331	rVB3	934	1077	0.22%	0.026%
68	9.407	1339	1343	1345	rBV3	586	840	0.17%	0.020%
69	9.503	1357	1361	1366	rBV3	3482	4355	0.90%	0.104%
70	9.813	1414	1419	1425	rBV4	436	789	0.16%	0.019%
71	9.877	1425	1431	1441	rBV4	5141	8792	1.83%	0.211%
72	10.048	1458	1463	1466	rBV	437	831	0.17%	0.020%
73	10.181	1484	1488	1492	rVB3	634	1070	0.22%	0.026%
74	10.283	1501	1507	1512	rVB3	541	1125	0.23%	0.027%
75	10.577	1556	1562	1565	rBV2	822	1250	0.26%	0.030%
76	11.175	1667	1674	1676	rBV3	558	942	0.20%	0.023%
77	11.314	1698	1700	1704	rBV3	573	841	0.17%	0.020%
78	11.458	1722	1727	1729	rVB	1182	953	0.20%	0.023%
79	11.490	1729	1733	1739	rBV4	1210	2355	0.49%	0.056%
80	11.640	1760	1761	1766	rVB4	797	860	0.18%	0.021%
81	11.677	1766	1768	1773	rBV	568	953	0.20%	0.023%
82	11.832	1788	1797	1806	rBV	286745	390992	81.17%	9.373%
83	11.928	1812	1815	1819	rVB	535	844	0.18%	0.020%
84	11.966	1819	1822	1825	rBV	711	820	0.17%	0.020%
85	11.998	1825	1828	1832	rVB2	1042	1059	0.22%	0.025%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220737.D
Acq On : 29 Jun 2024 2:36 pm
Operator : kristis
Sample : jd91204-18
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 200
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Title : Semi Volatile Extractables by GC/MS

86	12.046	1832	1837	1840	rBV2	691	1174	0.24%	0.028%
87	12.126	1848	1852	1856	rVB	1044	1097	0.23%	0.026%
88	12.222	1867	1870	1873	rBV2	730	1003	0.21%	0.024%
89	12.478	1910	1918	1921	rBV3	632	1135	0.24%	0.027%
90	12.612	1937	1943	1945	rBV2	845	929	0.19%	0.022%
91	12.639	1945	1948	1952	rBV2	981	1373	0.29%	0.033%
92	12.815	1976	1981	1984	rVB	499	821	0.17%	0.020%
93	13.280	2067	2068	2073	rBV	646	830	0.17%	0.020%
94	13.365	2078	2084	2087	rBV3	621	993	0.21%	0.024%
95	13.622	2129	2132	2137	rBV2	761	880	0.18%	0.021%
96	13.696	2142	2146	2149	rBV	878	1189	0.25%	0.029%
97	13.739	2149	2154	2158	rBV2	734	1350	0.28%	0.032%
98	13.846	2173	2174	2178	rBV2	688	852	0.18%	0.020%
99	13.915	2185	2187	2191	rVB2	1000	1215	0.25%	0.029%
100	13.958	2191	2195	2200	rBV2	916	1528	0.32%	0.037%
101	14.038	2200	2210	2221	rVV2	268304	422577	87.73%	10.130%
102	14.279	2250	2255	2260	rBV4	1026	1825	0.38%	0.044%
103	14.423	2279	2282	2288	rVB4	848	1089	0.23%	0.026%
104	14.621	2315	2319	2322	rVB2	596	940	0.20%	0.023%
105	14.658	2322	2326	2327	rBV	1028	884	0.18%	0.021%
106	14.711	2332	2336	2338	rVV3	1492	1748	0.36%	0.042%
107	14.733	2338	2340	2345	rVV4	2045	3333	0.69%	0.080%
108	14.776	2345	2348	2354	rVB3	1429	1848	0.38%	0.044%
109	14.941	2375	2379	2383	rBV	805	975	0.20%	0.023%
110	15.000	2386	2390	2393	rBV3	811	918	0.19%	0.022%
111	15.385	2456	2462	2465	rBV3	972	1318	0.27%	0.032%
112	15.593	2492	2501	2503	rBV3	631	1457	0.30%	0.035%
113	15.678	2516	2517	2526	rVB2	915	1128	0.23%	0.027%
114	15.972	2562	2572	2578	rBV2	27716	44191	9.17%	1.059%
115	16.117	2591	2599	2603	rVB3	1177	1823	0.38%	0.044%
116	16.149	2603	2605	2608	rBV2	966	1087	0.23%	0.026%
117	16.229	2613	2620	2629	rVB6	1740	5281	1.10%	0.127%
118	16.346	2637	2642	2644	rBV4	637	952	0.20%	0.023%
119	16.485	2665	2668	2670	rBV2	643	797	0.17%	0.019%
120	16.528	2674	2676	2681	rVB3	769	919	0.19%	0.022%
121	16.587	2683	2687	2688	rBV2	836	921	0.19%	0.022%
122	16.613	2688	2692	2693	rBV2	1254	1132	0.24%	0.027%
123	16.635	2693	2696	2697	rVV2	1466	1431	0.30%	0.034%
124	16.683	2697	2705	2707	rVV5	2946	6322	1.31%	0.152%
125	16.699	2707	2708	2717	rVV5	2322	3531	0.73%	0.085%
126	16.752	2717	2718	2721	rVB	893	797	0.17%	0.019%
127	16.774	2721	2722	2727	rBV3	932	1308	0.27%	0.031%
128	16.859	2733	2738	2740	rBV2	984	911	0.19%	0.022%
129	16.912	2744	2748	2751	rVB3	644	837	0.17%	0.020%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220737.D
Acq On : 29 Jun 2024 2:36 pm
Operator : kristis
Sample : jd91204-18
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 200
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Title : Semi Volatile Extractables by GC/MS

130	16.950	2751	2755	2758	rBV4	926	1427	0.30%	0.034%
131	17.094	2771	2782	2796	rBV	256869	454290	94.31%	10.890%
132	17.228	2804	2807	2811	rBV2	1111	1131	0.23%	0.027%
133	17.281	2811	2817	2818	rVB4	590	1017	0.21%	0.024%
134	17.383	2832	2836	2840	rBV3	777	1227	0.25%	0.029%
135	17.420	2840	2843	2846	rVB3	1140	1333	0.28%	0.032%
136	17.452	2846	2849	2850	rBV3	1100	932	0.19%	0.022%
137	17.468	2850	2852	2857	rVB3	795	882	0.18%	0.021%
138	17.548	2863	2867	2869	rBV	1415	1821	0.38%	0.044%
139	17.596	2874	2876	2879	rVV3	680	812	0.17%	0.019%
140	17.628	2879	2882	2884	rBV3	728	795	0.17%	0.019%
141	17.703	2890	2896	2898	rBV2	880	1543	0.32%	0.037%
142	17.730	2900	2901	2905	rVB2	911	892	0.19%	0.021%
143	17.778	2905	2910	2913	rBV3	869	1750	0.36%	0.042%
144	17.805	2913	2915	2919	rVB4	1042	1241	0.26%	0.030%
145	17.837	2919	2921	2923	rBV2	1279	1154	0.24%	0.028%
146	17.970	2942	2946	2949	rBV4	1246	1609	0.33%	0.039%
147	18.029	2952	2957	2959	rVV4	1410	1672	0.35%	0.040%
148	18.072	2964	2965	2968	rVB3	1755	1186	0.25%	0.028%
149	18.115	2968	2973	2975	rBV5	1312	1873	0.39%	0.045%
150	18.168	2980	2983	2987	rBV4	739	905	0.19%	0.022%
151	18.205	2987	2990	2992	rBV2	999	872	0.18%	0.021%
152	18.264	3000	3001	3007	rVB4	1547	1486	0.31%	0.036%
153	18.328	3007	3013	3016	rBV7	1430	2879	0.60%	0.069%
154	18.355	3016	3018	3020	rBV2	1627	1079	0.22%	0.026%
155	18.398	3020	3026	3028	rVV4	1847	2555	0.53%	0.061%
156	18.462	3028	3038	3040	rVV5	3193	6582	1.37%	0.158%
157	18.488	3040	3043	3048	rVB5	2591	3245	0.67%	0.078%
158	18.558	3054	3056	3058	rVB3	1450	1086	0.23%	0.026%
159	18.601	3061	3064	3065	rVB3	1418	1076	0.22%	0.026%
160	18.659	3072	3075	3079	rVB6	1327	1446	0.30%	0.035%
161	18.702	3079	3083	3085	rBV4	1340	1643	0.34%	0.039%
162	18.724	3085	3087	3094	rVB7	1384	2270	0.47%	0.054%
163	18.772	3094	3096	3098	rBV3	1206	862	0.18%	0.021%
164	18.836	3105	3108	3109	rBV2	1131	801	0.17%	0.019%
165	18.857	3109	3112	3114	rBV3	1345	1298	0.27%	0.031%
166	18.948	3125	3129	3130	rBV3	890	1010	0.21%	0.024%
167	18.964	3130	3132	3136	rVV5	1070	896	0.19%	0.021%
168	19.023	3139	3143	3144	rBV3	1199	951	0.20%	0.023%
169	19.049	3144	3148	3151	rVB4	1019	1446	0.30%	0.035%
170	19.103	3153	3158	3159	rVB5	1801	1659	0.34%	0.040%
171	19.114	3159	3160	3163	rBV2	1210	1087	0.23%	0.026%
172	19.146	3163	3166	3167	rBV2	1092	875	0.18%	0.021%
173	19.204	3175	3177	3181	rBV5	1191	1508	0.31%	0.036%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220737.D
Acq On : 29 Jun 2024 2:36 pm
Operator : kristis
Sample : jd91204-18
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 200
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Title : Semi Volatile Extractables by GC/MS

174	19.242	3181	3184	3187	rVB4	1406	1212	0.25%	0.029%
175	19.279	3187	3191	3194	rVB4	1601	2422	0.50%	0.058%
176	19.311	3194	3197	3198	rBV2	2430	1917	0.40%	0.046%
177	19.322	3198	3199	3203	rBV3	1283	1254	0.26%	0.030%
178	19.434	3215	3220	3221	rBV4	829	1055	0.22%	0.025%
179	19.471	3225	3227	3229	rVB3	1269	1022	0.21%	0.024%
180	19.493	3229	3231	3236	rBV5	2091	2356	0.49%	0.056%
181	19.536	3236	3239	3240	rBV3	1789	1111	0.23%	0.027%
182	19.552	3240	3242	3243	rBV2	1282	982	0.20%	0.024%
183	19.573	3243	3246	3249	rBV5	1111	827	0.17%	0.020%
184	19.626	3253	3256	3258	rBV3	992	938	0.19%	0.022%
185	19.648	3258	3260	3261	rVB2	2243	1405	0.29%	0.034%
186	19.685	3261	3267	3269	rBV6	2382	4476	0.93%	0.107%
187	19.701	3269	3270	3273	rVB3	1800	1100	0.23%	0.026%
188	19.728	3273	3275	3280	rBV5	2361	2619	0.54%	0.063%
189	19.877	3297	3303	3306	rBV7	1927	2540	0.53%	0.061%
190	19.931	3309	3313	3315	rBV4	1642	2136	0.44%	0.051%
191	19.979	3318	3322	3324	rVV5	1250	1407	0.29%	0.034%
192	20.032	3327	3332	3333	rVV5	1955	2452	0.51%	0.059%
193	20.054	3335	3336	3338	rVV2	2378	1798	0.37%	0.043%
194	20.113	3342	3347	3349	rVV6	2874	4591	0.95%	0.110%
195	20.139	3349	3352	3354	rVV4	2426	3001	0.62%	0.072%
196	20.155	3354	3355	3361	rVB6	2684	3042	0.63%	0.073%
197	20.193	3361	3362	3365	rBV3	1793	1571	0.33%	0.038%
198	20.267	3373	3376	3378	rVB4	1411	1136	0.24%	0.027%
199	20.294	3378	3381	3383	rVB3	1655	1127	0.23%	0.027%
200	20.316	3383	3385	3387	rBV3	1803	965	0.20%	0.023%

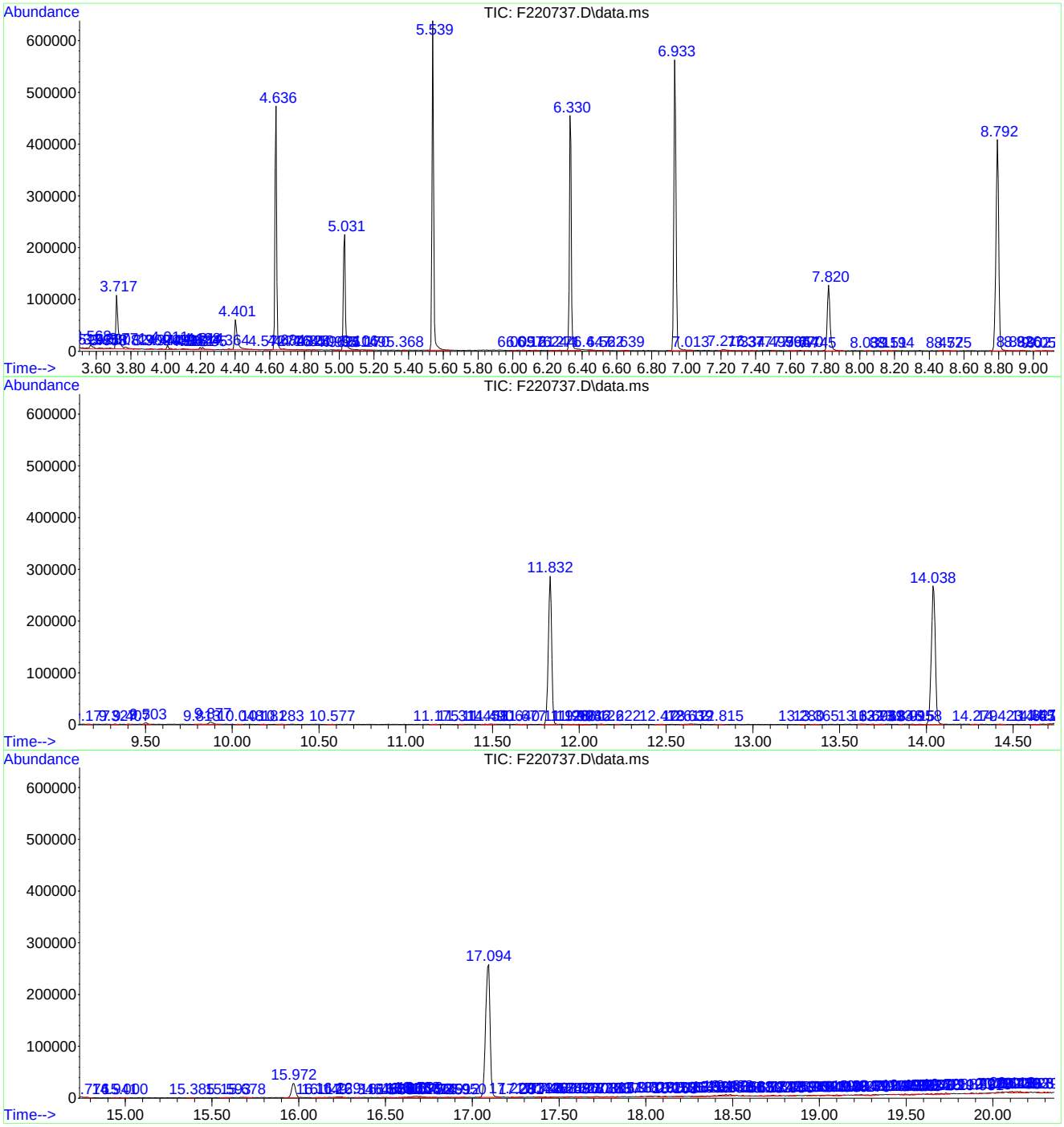
Sum of corrected areas: 4171637

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220737.D
Acq On : 29 Jun 2024 2:36 pm
Operator : kristis
Sample : jd91204-18
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220737.D
Acq On : 29 Jun 2024 2:36 pm
Operator : kristis
Sample : jd91204-18
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

					|--Internal Standard---|	
TIC Top Hit name	RT	EstConc	Units	Response	# RT Resp Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220738.D
Acq On : 29 Jun 2024 3:02 pm
Operator : kristis
Sample : jd91204-19 Inst : GCMSF
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 01:27:02 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 01 01:11:40 2024
Response via : Initial Calibration

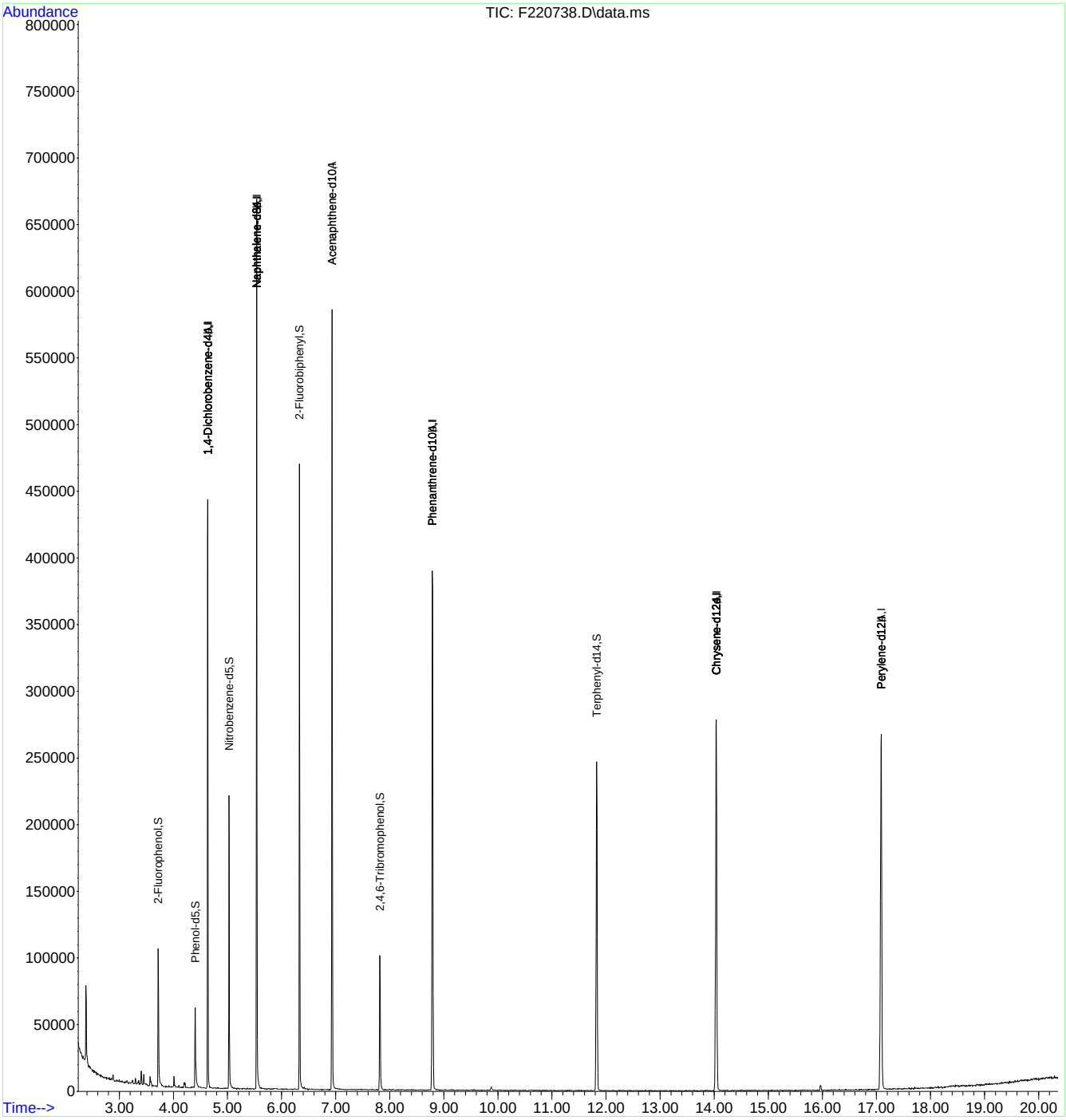
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.636	152	55659	40.00	ppm	0.00
24) Naphthalene-d8	5.539	136	221600	40.00	ppm	0.00
46) Acenaphthene-d10	6.933	164	115464	40.00	ppm	0.00
69) Phenanthrene-d10	8.787	188	192264	40.00	ppm	-0.02
83) Chrysene-d12	14.038	240	152501	40.00	ppm	-0.02
92) Perylene-d12	17.089	264	161639	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4A	4.636	152	55659	40.00	ppm	0.00
112) Naphthalene-d8A	5.539	136	221600	40.00	ppm	0.00
121) Acenaphthene-d10A	6.933	164	115464	40.00	ppm	0.00
132) Phenanthrene-d10A	8.787	188	192264	40.00	ppm	-0.02
147) Chrysene-d12A	14.038	240	152501	40.00	ppm	-0.02
154) Perylene-d12A	17.089	264	161639	40.00	ppm	-0.02
157) 1,4-Dichlorobenzene-d4b	4.636	152	55659	40.00	ppm	0.00
159) Phenanthrene-d10b	8.787	188	192264	40.00	ppm	-0.02
161) Naphthalene-d8b	5.539	136	221600	40.00	ppm	0.00
163) Naphthalene-d8c	5.539	136	221600	40.00	ppm	0.00
167) 1,4-Dichlorobenzene-d4c	4.636	152	55659	40.00	ppm	0.00
169) Chrysene-d12c	14.038	240	152501	40.00	ppm	-0.02
171) Chrysene-d12d	14.038	240	152501	40.00	ppm	-0.02
173) Naphthalene-d8d	5.539	136	221600	40.00	ppm	0.00
175) Chrysene-d12e	14.038	240	152501	40.00	ppm	-0.02
177) Perylene-d12b	17.089	264	161639	40.00	ppm	-0.02
179) Naphthalene-d8e	5.539	136	221600	40.00	ppm	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.717	112	28050	17.22	ppm	0.00
Spiked Amount 50.000			Recovery = 34.44%			
8) Phenol-d5	4.401	99	21594	11.07	ppm	0.00
Spiked Amount 50.000			Recovery = 22.14%			
25) Nitrobenzene-d5	5.026	82	57369	30.36	ppm	0.00
Spiked Amount 50.000			Recovery = 60.72%			
51) 2-Fluorobiphenyl	6.330	172	116456	31.62	ppm	0.00
Spiked Amount 50.000			Recovery = 63.24%			
73) 2,4,6-Tribromophenol	7.820	330	12754	31.93	ppm	0.00
Spiked Amount 50.000			Recovery = 63.86%			
86) Terphenyl-d14	11.827	244	118798	31.35	ppm	-0.02
Spiked Amount 50.000			Recovery = 62.70%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220738.D
Acq On : 29 Jun 2024 3:02 pm
Operator : kristis
Sample : jd91204-19 Inst : GCMSF
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 01:27:02 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 01 01:11:40 2024
Response via : Initial Calibration



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220738.D
Acq On : 29 Jun 2024 3:02 pm
Operator : kristis
Sample : jd91204-19
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 200
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: F220738.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.568	246	250	257	rVB	7576	9923	2.02%	0.248%
2	3.621	257	260	264	rBV4	1467	1719	0.35%	0.043%
3	3.680	270	271	274	rVB3	1372	867	0.18%	0.022%
4	3.717	274	278	298	rBV	103939	100379	20.48%	2.510%
5	3.851	298	303	304	rVB3	1291	1634	0.33%	0.041%
6	3.861	304	305	308	rBV3	1366	1141	0.23%	0.029%
7	3.915	313	315	319	rBV3	1368	1021	0.21%	0.026%
8	4.011	326	333	341	rBV4	8296	7040	1.44%	0.176%
9	4.102	347	350	354	rVB4	2019	1966	0.40%	0.049%
10	4.145	354	358	359	rBV3	802	878	0.18%	0.022%
11	4.198	363	368	375	rVB5	4277	5762	1.18%	0.144%
12	4.332	391	393	396	rBV3	1149	1177	0.24%	0.029%
13	4.401	402	406	419	rBV	60141	61000	12.44%	1.525%
14	4.492	419	423	429	rVB5	883	1386	0.28%	0.035%
15	4.567	435	437	443	rVB4	972	1536	0.31%	0.038%
16	4.636	443	450	457	rBV	442063	339473	69.26%	8.488%
17	4.684	457	459	463	rVB3	1293	1102	0.22%	0.028%
18	4.786	473	478	480	rVB4	800	862	0.18%	0.022%
19	4.834	485	487	491	rVB2	889	977	0.20%	0.024%
20	4.935	503	506	509	rBV3	845	781	0.16%	0.020%
21	4.983	513	515	519	rVB4	682	803	0.16%	0.020%
22	5.026	519	523	538	rBV	220076	173459	35.39%	4.337%
23	5.154	544	547	550	rVB4	1103	1438	0.29%	0.036%
24	5.176	550	551	554	rBV2	1139	1040	0.21%	0.026%
25	5.197	554	555	559	rVV3	1245	1001	0.20%	0.025%
26	5.245	559	564	569	rVV6	717	1487	0.30%	0.037%
27	5.299	573	574	580	rVB3	766	819	0.17%	0.020%
28	5.373	585	588	593	rVB4	1288	1334	0.27%	0.033%
29	5.411	593	595	598	rBV2	673	785	0.16%	0.020%
30	5.475	603	607	610	rVB3	651	850	0.17%	0.021%
31	5.539	610	619	636	rBV	667823	440881	89.94%	11.023%
32	5.699	647	649	653	rVB2	1105	1115	0.23%	0.028%
33	5.731	653	655	658	rBV4	992	967	0.20%	0.024%
34	5.838	671	675	676	rBV2	838	795	0.16%	0.020%
35	5.918	684	690	695	rVB5	819	1514	0.31%	0.038%
36	6.041	711	713	716	rBV2	812	927	0.19%	0.023%
37	6.185	736	740	743	rVB4	628	830	0.17%	0.021%
38	6.239	743	750	754	rBV4	996	1622	0.33%	0.041%
39	6.330	758	767	780	rBV	469305	340984	69.56%	8.526%
40	6.420	780	784	786	rVB2	1676	1840	0.38%	0.046%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220738.D
Acq On : 29 Jun 2024 3:02 pm
Operator : kristis
Sample : jd91204-19
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 200
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Title : Semi Volatile Extractables by GC/MS

41	6.479	793	795	797	rVB2	1146	864	0.18%	0.022%
42	6.506	797	800	806	rBV4	951	2224	0.45%	0.056%
43	6.559	806	810	817	rVB3	723	1368	0.28%	0.034%
44	6.714	837	839	844	rVB3	1054	1596	0.33%	0.040%
45	6.752	844	846	850	rBV4	1262	1495	0.30%	0.037%
46	6.885	868	871	874	rBV2	979	964	0.20%	0.024%
47	6.933	874	880	892	rVV	585355	490173	100.00%	12.256%
48	7.131	913	917	922	rVB4	665	1055	0.22%	0.026%
49	7.494	982	985	988	rBV3	687	828	0.17%	0.021%
50	7.633	1006	1011	1017	rVB3	539	1027	0.21%	0.026%
51	7.820	1039	1046	1060	rVB	101408	119277	24.33%	2.982%
52	7.916	1060	1064	1068	rBV2	1051	1650	0.34%	0.041%
53	7.996	1073	1079	1085	rVV3	886	1897	0.39%	0.047%
54	8.055	1089	1090	1098	rVB4	755	1466	0.30%	0.037%
55	8.119	1098	1102	1106	rBV2	678	883	0.18%	0.022%
56	8.397	1151	1154	1159	rVB4	847	1181	0.24%	0.030%
57	8.440	1159	1162	1166	rBV	864	843	0.17%	0.021%
58	8.702	1206	1211	1212	rBV	772	799	0.16%	0.020%
59	8.787	1221	1227	1241	rBV	389786	470667	96.02%	11.768%
60	8.910	1248	1250	1254	rVB2	974	1147	0.23%	0.029%
61	8.937	1254	1255	1261	rBV	933	1510	0.31%	0.038%
62	9.022	1266	1271	1273	rVB4	976	1162	0.24%	0.029%
63	9.348	1326	1332	1337	rVV3	589	1125	0.23%	0.028%
64	9.385	1337	1339	1343	rVB3	640	791	0.16%	0.020%
65	9.530	1363	1366	1368	rVB2	813	764	0.16%	0.019%
66	9.562	1368	1372	1376	rBV3	913	1138	0.23%	0.028%
67	9.674	1391	1393	1397	rVB	812	919	0.19%	0.023%
68	9.877	1425	1431	1438	rVB7	2869	4787	0.98%	0.120%
69	9.946	1438	1444	1451	rVB2	584	1318	0.27%	0.033%
70	10.010	1451	1456	1460	rBV2	590	1016	0.21%	0.025%
71	10.261	1502	1503	1508	rVB2	636	870	0.18%	0.022%
72	10.310	1508	1512	1514	rBV	895	1242	0.25%	0.031%
73	10.513	1549	1550	1558	rVB2	770	1028	0.21%	0.026%
74	10.571	1558	1561	1563	rBV2	861	1083	0.22%	0.027%
75	10.710	1584	1587	1595	rBV3	589	968	0.20%	0.024%
76	10.774	1595	1599	1603	rVB3	852	1013	0.21%	0.025%
77	10.828	1603	1609	1610	rBV	796	894	0.18%	0.022%
78	10.854	1610	1614	1615	rBV2	790	891	0.18%	0.022%
79	11.186	1673	1676	1680	rVB3	606	784	0.16%	0.020%
80	11.544	1736	1743	1744	rBV3	635	1009	0.21%	0.025%
81	11.570	1744	1748	1753	rVV2	497	867	0.18%	0.022%
82	11.827	1788	1796	1809	rVB	246832	329375	67.20%	8.235%
83	12.324	1886	1889	1892	rVB2	640	812	0.17%	0.020%
84	12.623	1941	1945	1949	rVB	761	1149	0.23%	0.029%
85	12.665	1949	1953	1955	rBV2	769	1094	0.22%	0.027%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220738.D
Acq On : 29 Jun 2024 3:02 pm
Operator : kristis
Sample : jd91204-19
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 200
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Title : Semi Volatile Extractables by GC/MS

86	12.730	1963	1965	1970	rBV	916	1025	0.21%	0.026%
87	12.842	1980	1986	1987	rVB2	764	1243	0.25%	0.031%
88	12.863	1987	1990	1994	rBV2	636	1047	0.21%	0.026%
89	13.392	2086	2089	2096	rVB2	631	1440	0.29%	0.036%
90	13.467	2097	2103	2106	rBV2	972	1443	0.29%	0.036%
91	13.531	2111	2115	2118	rVV	573	863	0.18%	0.022%
92	13.611	2122	2130	2133	rVB2	480	1112	0.23%	0.028%
93	13.691	2142	2145	2150	rBV	770	813	0.17%	0.020%
94	13.750	2150	2156	2159	rBV3	563	922	0.19%	0.023%
95	13.867	2171	2178	2180	rBV3	764	1345	0.27%	0.034%
96	14.038	2201	2210	2222	rBV2	278520	434710	88.69%	10.869%
97	14.172	2233	2235	2239	rVB2	577	762	0.16%	0.019%
98	14.204	2239	2241	2244	rBV	783	849	0.17%	0.021%
99	14.252	2247	2250	2255	rVB2	688	873	0.18%	0.022%
100	14.354	2262	2269	2270	rVB3	642	1138	0.23%	0.028%
101	14.509	2297	2298	2303	rVB2	908	967	0.20%	0.024%
102	14.551	2303	2306	2309	rBV	600	772	0.16%	0.019%
103	14.824	2352	2357	2358	rBV	811	943	0.19%	0.024%
104	15.070	2402	2403	2408	rBV	834	945	0.19%	0.024%
105	15.166	2416	2421	2423	rBV3	790	772	0.16%	0.019%
106	15.219	2426	2431	2434	rVV2	561	880	0.18%	0.022%
107	15.251	2434	2437	2439	rVB2	864	855	0.17%	0.021%
108	15.278	2439	2442	2445	rBV	713	1027	0.21%	0.026%
109	15.379	2458	2461	2466	rVB	529	816	0.17%	0.020%
110	15.764	2527	2533	2538	rBV2	617	1153	0.24%	0.029%
111	15.914	2556	2561	2563	rBV2	932	842	0.17%	0.021%
112	15.962	2563	2570	2575	rVV5	3956	6236	1.27%	0.156%
113	16.202	2612	2615	2620	rBV4	608	888	0.18%	0.022%
114	16.309	2632	2635	2640	rBV2	952	980	0.20%	0.025%
115	16.426	2653	2657	2660	rBV	943	872	0.18%	0.022%
116	16.539	2674	2678	2680	rBV2	778	873	0.18%	0.022%
117	16.613	2689	2692	2698	rVB2	728	899	0.18%	0.022%
118	16.710	2705	2710	2716	rBV3	1127	2245	0.46%	0.056%
119	16.875	2740	2741	2748	rVB3	787	1103	0.23%	0.028%
120	16.918	2748	2749	2754	rBV2	738	880	0.18%	0.022%
121	17.089	2771	2781	2793	rBV2	267022	457859	93.41%	11.448%
122	17.158	2793	2794	2800	rVB2	1045	1333	0.27%	0.033%
123	17.249	2808	2811	2813	rVB2	854	811	0.17%	0.020%
124	17.335	2825	2827	2831	rVB2	966	1014	0.21%	0.025%
125	17.516	2857	2861	2865	rBV4	951	1371	0.28%	0.034%
126	17.602	2873	2877	2879	rVB2	1347	865	0.18%	0.022%
127	17.623	2879	2881	2884	rVB3	969	931	0.19%	0.023%
128	17.655	2884	2887	2892	rBV4	1400	2092	0.43%	0.052%
129	17.709	2892	2897	2899	rBV4	1927	1981	0.40%	0.050%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220738.D
Acq On : 29 Jun 2024 3:02 pm
Operator : kristis
Sample : jd91204-19
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 200
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Title : Semi Volatile Extractables by GC/MS

130	17.810	2912	2916	2918	rBV3	758	870	0.18%	0.022%
131	17.917	2930	2936	2940	rBV5	575	1270	0.26%	0.032%
132	18.018	2952	2955	2957	rVB4	1125	1055	0.22%	0.026%
133	18.040	2957	2959	2962	rBV	1068	908	0.19%	0.023%
134	18.093	2962	2969	2972	rBV6	1234	2315	0.47%	0.058%
135	18.141	2972	2978	2982	rBV3	1397	1911	0.39%	0.048%
136	18.200	2986	2989	2993	rVB3	1507	1891	0.39%	0.047%
137	18.243	2993	2997	2999	rBV4	997	1604	0.33%	0.040%
138	18.296	3003	3007	3009	rBV4	737	784	0.16%	0.020%
139	18.371	3013	3021	3022	rBV5	1163	1587	0.32%	0.040%
140	18.387	3022	3024	3028	rBV4	1040	1526	0.31%	0.038%
141	18.462	3035	3038	3042	rBV4	1221	1061	0.22%	0.027%
142	18.510	3044	3047	3050	rVB3	1383	1697	0.35%	0.042%
143	18.537	3050	3052	3055	rBV2	1062	1287	0.26%	0.032%
144	18.601	3061	3064	3067	rVB4	996	1091	0.22%	0.027%
145	18.633	3067	3070	3073	rVB3	1033	1183	0.24%	0.030%
146	18.659	3073	3075	3080	rBV3	1342	1226	0.25%	0.031%
147	18.697	3080	3082	3084	rBV3	1055	969	0.20%	0.024%
148	18.772	3087	3096	3097	rVB7	1403	3038	0.62%	0.076%
149	18.788	3097	3099	3101	rBV2	840	950	0.19%	0.024%
150	18.804	3101	3102	3108	rVB4	1167	1673	0.34%	0.042%
151	18.852	3108	3111	3114	rBV3	1853	2421	0.49%	0.061%
152	18.873	3114	3115	3119	rVB3	1091	900	0.18%	0.023%
153	18.905	3119	3121	3123	rVB3	1531	1022	0.21%	0.026%
154	18.927	3123	3125	3127	rBV3	1781	1383	0.28%	0.035%
155	18.975	3130	3134	3137	rBV5	1074	1250	0.26%	0.031%
156	19.023	3137	3143	3145	rBV5	1666	2395	0.49%	0.060%
157	19.044	3145	3147	3152	rBV4	1106	1229	0.25%	0.031%
158	19.087	3152	3155	3158	rBV5	1303	1513	0.31%	0.038%
159	19.124	3158	3162	3165	rBV5	888	1113	0.23%	0.028%
160	19.199	3171	3176	3180	rBV7	958	1369	0.28%	0.034%
161	19.252	3182	3186	3187	rBV3	1015	1423	0.29%	0.036%
162	19.290	3191	3193	3196	rBV4	1015	1268	0.26%	0.032%
163	19.311	3196	3197	3201	rBV3	1230	834	0.17%	0.021%
164	19.349	3201	3204	3207	rBV4	915	1082	0.22%	0.027%
165	19.375	3207	3209	3212	rVV4	1196	1117	0.23%	0.028%
166	19.418	3215	3217	3222	rVB6	1575	1805	0.37%	0.045%
167	19.461	3222	3225	3226	rBV3	2100	1746	0.36%	0.044%
168	19.477	3226	3228	3232	rBV5	1047	1070	0.22%	0.027%
169	19.562	3240	3244	3247	rBV5	1813	2015	0.41%	0.050%
170	19.637	3255	3258	3259	rBV2	1104	882	0.18%	0.022%
171	19.675	3259	3265	3268	rVV7	1562	2230	0.45%	0.056%
172	19.733	3273	3276	3278	rVV4	1407	1318	0.27%	0.033%
173	19.765	3279	3282	3285	rVB4	1021	1131	0.23%	0.028%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220738.D
Acq On : 29 Jun 2024 3:02 pm
Operator : kristis
Sample : jd91204-19
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 200
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Title : Semi Volatile Extractables by GC/MS

174	19.797	3287	3288	3291	rBV2	1505	1106	0.23%	0.028%
175	19.851	3295	3298	3300	rBV3	1139	981	0.20%	0.025%
176	19.867	3300	3301	3305	rVB4	1211	988	0.20%	0.025%
177	19.915	3305	3310	3312	rBV6	1638	2020	0.41%	0.051%
178	19.995	3321	3325	3328	rVB6	1331	768	0.16%	0.019%
179	20.022	3328	3330	3332	rBV3	1287	904	0.18%	0.023%
180	20.075	3337	3340	3342	rVV4	1256	976	0.20%	0.024%
181	20.097	3342	3344	3347	rVB4	1231	1193	0.24%	0.030%
182	20.139	3347	3352	3357	rBV6	1852	3475	0.71%	0.087%
183	20.182	3357	3360	3361	rVV3	1198	835	0.17%	0.021%
184	20.225	3363	3368	3370	rVB5	1816	2447	0.50%	0.061%
185	20.241	3370	3371	3374	rBV3	1298	1145	0.23%	0.029%
186	20.262	3374	3375	3377	rBV2	968	774	0.16%	0.019%
187	20.289	3377	3380	3384	rVB6	2250	1696	0.35%	0.042%
188	20.321	3384	3386	3388	rBV3	1177	828	0.17%	0.021%

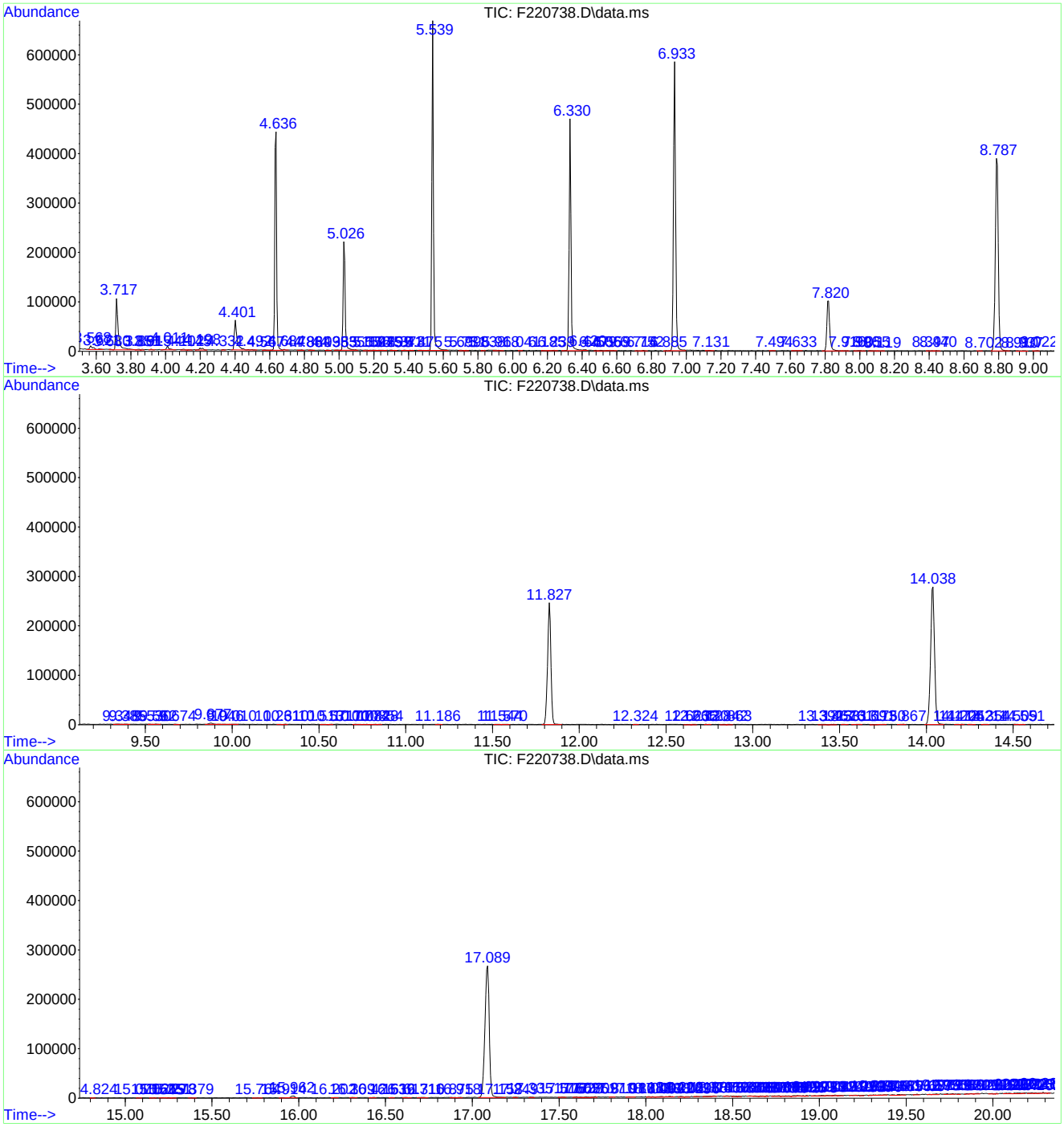
Sum of corrected areas: 3999466

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220738.D
Acq On : 29 Jun 2024 3:02 pm
Operator : kristis
Sample : jd91204-19
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220738.D
Acq On : 29 Jun 2024 3:02 pm
Operator : kristis
Sample : jd91204-19
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

					|--Internal Standard---|	
TIC Top Hit name	RT	EstConc	Units	Response	# RT Resp Conc

No Library Search Compounds Detected
****

Quantitation Report (LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7989.D
Acq On : 01 Jul 2024 01:24 pm
Operator : karimam
Sample : op55759-mb1 Inst : GCMSCJ
Misc : op55759,ecj348,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 21:59:05 2024
Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Mon Jul 01 21:49:56 2024
Response via : Initial Calibration

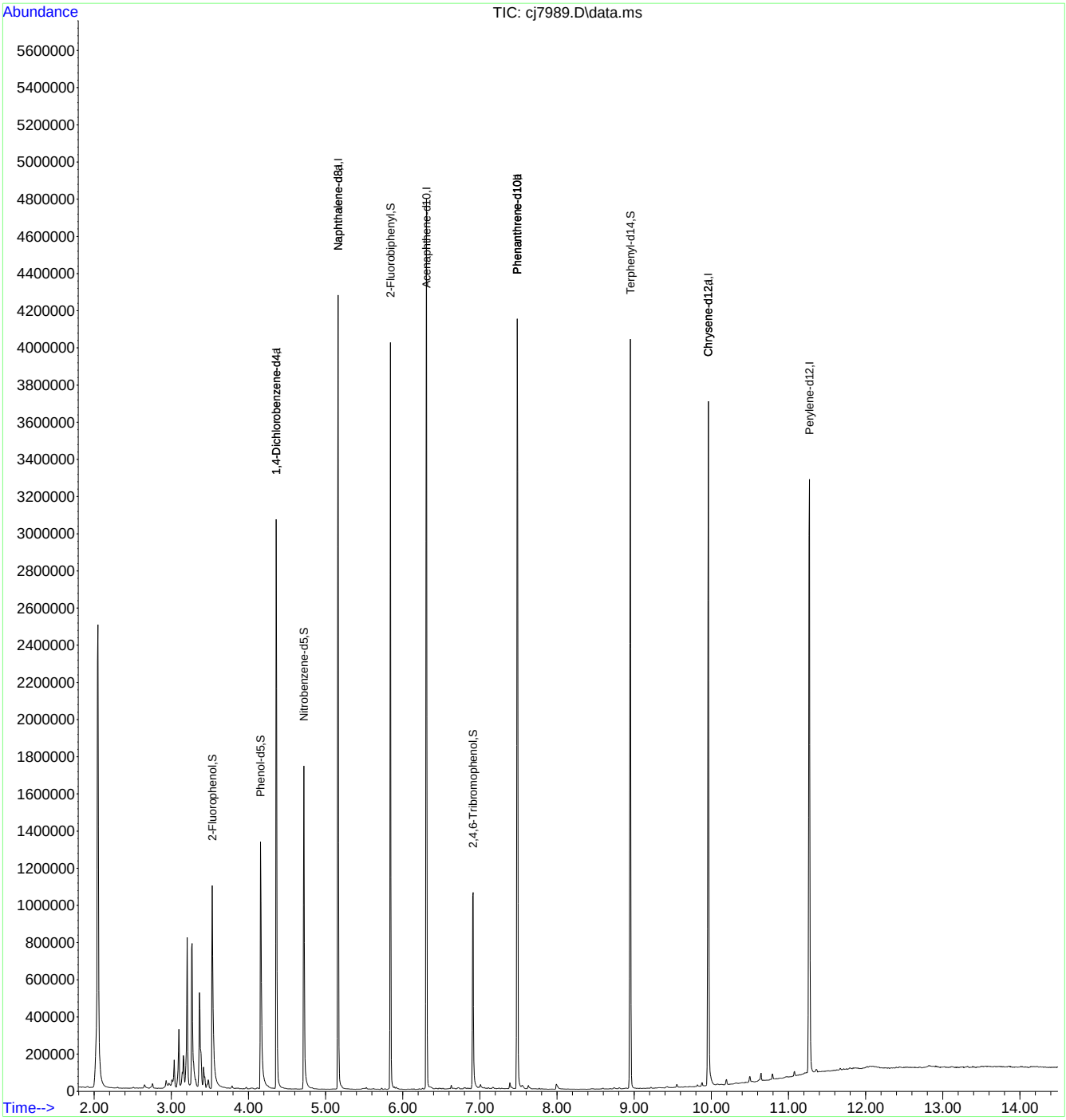
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.360	152	390341	40.00	ppm	0.00
24) Naphthalene-d8	5.162	136	1427767	40.00	ppm	0.00
46) Acenaphthene-d10	6.307	164	794614	40.00	ppm	0.00
69) Phenanthrene-d10	7.484	188	1419086	40.00	ppm	0.00
84) Chrysene-d12	9.960	240	1115346	40.00	ppm	0.00
93) Perylene-d12	11.271	264	1180041	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.360	152	390341	40.00	ppm	0.00
105) Phenanthrene-d10a	7.484	188	1419086	40.00	ppm	0.00
107) Naphthalene-d8a	5.162	136	1427767	40.00	ppm	0.00
109) Phenanthrene-d10b	7.484	188	1419086	40.00	ppm	0.00
112) Chrysene-d12a	9.960	240	1115346	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.531	112	386752	34.47	ppm	0.00
Spiked Amount 50.000			Recovery = 68.94%			
8) Phenol-d5	4.157	99	519694	35.91	ppm	0.00
Spiked Amount 50.000			Recovery = 71.82%			
25) Nitrobenzene-d5	4.718	82	504768	34.53	ppm	0.00
Spiked Amount 50.000			Recovery = 69.06%			
51) 2-Fluorobiphenyl	5.842	172	938478	37.53	ppm	0.00
Spiked Amount 50.000			Recovery = 75.06%			
74) 2,4,6-Tribromophenol	6.911	330	119305	38.34	ppm	0.00
Spiked Amount 50.000			Recovery = 76.68%			
87) Terphenyl-d14	8.949	244	1142275	41.45	ppm	0.00
Spiked Amount 50.000			Recovery = 82.90%			
110) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7989.D
Acq On : 01 Jul 2024 01:24 pm
Operator : karimam
Sample : op55759-mb1 Inst : GCMSCJ
Misc : op55759,ecj348,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 21:59:05 2024
Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Mon Jul 01 21:49:56 2024
Response via : Initial Calibration



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7989.D
Acq On : 01 Jul 2024 01:24 pm
Operator : karimam
Sample : op55759-mb1
Misc : op55759,ecj348,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: cj7989.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.910	18	23	28	rVV3	5992	9879	0.28%	0.026%
2	2.049	35	49	78	rVV	2492641	3331757	94.90%	8.679%
3	2.220	78	81	89	rVB8	3354	5694	0.16%	0.015%
4	2.306	94	97	108	rVB5	5621	8289	0.24%	0.022%
5	2.509	126	135	139	rBV2	5286	7288	0.21%	0.019%
6	2.654	158	162	173	rVV	19633	30512	0.87%	0.079%
7	2.755	173	181	189	rVV	24811	34912	0.99%	0.091%
8	2.932	203	214	218	rBV2	42880	66023	1.88%	0.172%
9	2.969	218	221	225	rVV2	28758	47237	1.35%	0.123%
10	3.012	225	229	230	rVV	46728	55167	1.57%	0.144%
11	3.039	230	234	238	rVV	153415	156103	4.45%	0.407%
12	3.098	238	245	249	rVV	318474	327323	9.32%	0.853%
13	3.157	249	256	259	rVV	178130	258464	7.36%	0.673%
14	3.205	259	265	272	rVV	813122	849325	24.19%	2.213%
15	3.269	272	277	291	rVV	781109	950584	27.08%	2.476%
16	3.365	291	295	302	rVV2	516575	659282	18.78%	1.717%
17	3.419	302	305	311	rVV	115669	145044	4.13%	0.378%
18	3.477	311	316	322	rVV	46682	62393	1.78%	0.163%
19	3.531	322	326	361	rVV	1092598	1364180	38.86%	3.554%
20	3.729	361	363	369	rVV7	4360	8914	0.25%	0.023%
21	3.788	369	374	381	rVV5	15367	20129	0.57%	0.052%
22	3.975	403	409	412	rVB3	8565	10153	0.29%	0.026%
23	4.044	416	422	430	rVB4	4972	11394	0.32%	0.030%
24	4.114	430	435	440	rBV5	5539	9295	0.26%	0.024%
25	4.157	440	443	473	rVV	1330039	1438365	40.97%	3.747%
26	4.360	477	481	510	rVB	3064959	2324305	66.21%	6.055%
27	4.718	536	548	566	rBV	1739473	1428928	40.70%	3.722%
28	4.825	566	568	586	rVB10	9125	19629	0.56%	0.051%
29	5.162	624	631	650	rVV	4272695	2997042	85.37%	7.807%
30	5.269	650	651	661	rVV8	2478	5410	0.15%	0.014%
31	5.483	685	691	692	rBV6	4420	5307	0.15%	0.014%
32	5.526	696	699	703	rVB2	9163	8760	0.25%	0.023%
33	5.622	715	717	724	rVB7	4361	5800	0.17%	0.015%
34	5.724	731	736	741	rVB	7169	6525	0.19%	0.017%
35	5.842	749	758	766	rBV	4018940	2745437	78.20%	7.152%
36	5.890	766	767	769	rVV	11945	7784	0.22%	0.020%
37	5.916	769	772	784	rVB2	10820	17924	0.51%	0.047%
38	6.307	839	845	864	rBV	4789493	3440962	98.01%	8.964%
39	6.425	865	867	873	rVB6	3864	5549	0.16%	0.014%
40	6.628	892	905	908	rBV	21123	23212	0.66%	0.060%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7989.D
Acq On : 01 Jul 2024 01:24 pm
Operator : karimam
Sample : op55759-mb1
Misc : op55759,ecj348,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	6.671	910	913	917	rVB6	3854	5211	0.15%	0.014%
42	6.719	917	922	927	rVB6	6946	12722	0.36%	0.033%
43	6.794	932	936	943	rBV5	6749	12123	0.35%	0.032%
44	6.911	953	958	970	rBV	1055907	1047873	29.85%	2.730%
45	7.008	970	976	983	rVB	19467	25283	0.72%	0.066%
46	7.168	1003	1006	1014	rVB5	7851	11527	0.33%	0.030%
47	7.387	1044	1047	1050	rBV	31856	27494	0.78%	0.072%
48	7.484	1057	1065	1074	rBV	4142226	3510750	100.00%	9.146%
49	7.548	1074	1077	1085	rVB4	19120	32496	0.93%	0.085%
50	7.628	1088	1092	1101	rVB2	18890	25331	0.72%	0.066%
51	7.992	1155	1160	1173	rBV4	29172	52550	1.50%	0.137%
52	8.457	1240	1247	1254	rVV4	3418	8473	0.24%	0.022%
53	8.596	1265	1273	1277	rBV3	5521	8535	0.24%	0.022%
54	8.741	1295	1300	1309	rBV3	7266	13128	0.37%	0.034%
55	8.805	1309	1312	1320	rBV2	6016	7658	0.22%	0.020%
56	8.896	1320	1329	1332	rBV7	4107	8773	0.25%	0.023%
57	8.949	1332	1339	1354	rVV	4031562	3215391	91.59%	8.376%
58	9.340	1402	1412	1415	rBV	2843	6157	0.18%	0.016%
59	9.431	1422	1429	1434	rBV	7841	16687	0.48%	0.043%
60	9.554	1447	1452	1456	rBV3	16679	17246	0.49%	0.045%
61	9.714	1480	1482	1489	rBV8	3413	7362	0.21%	0.019%
62	9.821	1497	1502	1506	rBV5	9837	10829	0.31%	0.028%
63	9.880	1508	1513	1519	rBV	21442	24428	0.70%	0.064%
64	9.960	1519	1528	1546	rBV	3684122	3406965	97.04%	8.875%
65	10.072	1546	1549	1555	rBV8	4362	6517	0.19%	0.017%
66	10.195	1566	1572	1577	rBV	29231	30666	0.87%	0.080%
67	10.324	1586	1596	1598	rBV9	6676	12636	0.36%	0.033%
68	10.393	1601	1609	1613	rBV10	4504	11714	0.33%	0.031%
69	10.447	1613	1619	1624	rBV10	4644	9219	0.26%	0.024%
70	10.500	1624	1629	1632	rBV	33007	36132	1.03%	0.094%
71	10.645	1641	1656	1661	rBV	48000	79725	2.27%	0.208%
72	10.762	1671	1678	1680	rBV7	5255	7947	0.23%	0.021%
73	10.794	1680	1684	1688	rBV	31394	33499	0.95%	0.087%
74	10.885	1696	1701	1703	rBV6	5264	7014	0.20%	0.018%
75	10.982	1707	1719	1723	rBV6	9071	29535	0.84%	0.077%
76	11.078	1729	1737	1741	rBV2	29947	38642	1.10%	0.101%
77	11.212	1751	1762	1764	rBV2	11279	26240	0.75%	0.068%
78	11.271	1764	1773	1784	rVV	3195106	3379504	96.26%	8.804%
79	11.361	1786	1790	1794	rVV6	16237	23364	0.67%	0.061%
80	11.426	1801	1802	1809	rVV7	2437	5607	0.16%	0.015%
81	11.591	1823	1833	1836	rBV7	7184	18313	0.52%	0.048%
82	11.629	1837	1840	1843	rVV5	4558	5454	0.16%	0.014%
83	11.672	1844	1848	1851	rVV4	12069	13358	0.38%	0.035%
84	11.714	1854	1856	1859	rVV4	5649	5183	0.15%	0.014%
85	11.795	1866	1871	1876	rVV10	7811	14093	0.40%	0.037%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7989.D
Acq On : 01 Jul 2024 01:24 pm
Operator : karimam
Sample : op55759-mb1
Misc : op55759,ecj348,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 1000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	11.859	1881	1883	1888	rVV6	3511	5502	0.16%	0.014%
87	11.960	1900	1902	1904	rBV3	4952	5377	0.15%	0.014%
88	12.019	1908	1913	1915	rVV6	8387	12235	0.35%	0.032%
89	12.062	1916	1921	1924	rVV7	5920	12335	0.35%	0.032%
90	12.399	1981	1984	1988	rBV6	6123	6403	0.18%	0.017%
91	12.442	1988	1992	2000	rVV10	6539	11906	0.34%	0.031%
92	12.693	2036	2039	2045	rBV8	4969	8584	0.24%	0.022%
93	12.816	2055	2062	2072	rBV8	9331	26057	0.74%	0.068%
94	13.121	2114	2119	2126	rVB8	6100	13054	0.37%	0.034%
95	13.185	2130	2131	2136	rBV5	4654	5546	0.16%	0.014%
96	13.319	2149	2156	2160	rVB10	8000	14311	0.41%	0.037%
97	13.458	2178	2182	2183	rBV4	4237	5409	0.15%	0.014%
98	13.506	2186	2191	2193	rBV6	6577	8738	0.25%	0.023%
99	13.854	2253	2256	2265	rVB6	7748	18206	0.52%	0.047%
100	14.137	2304	2309	2314	rBV8	6829	13502	0.38%	0.035%

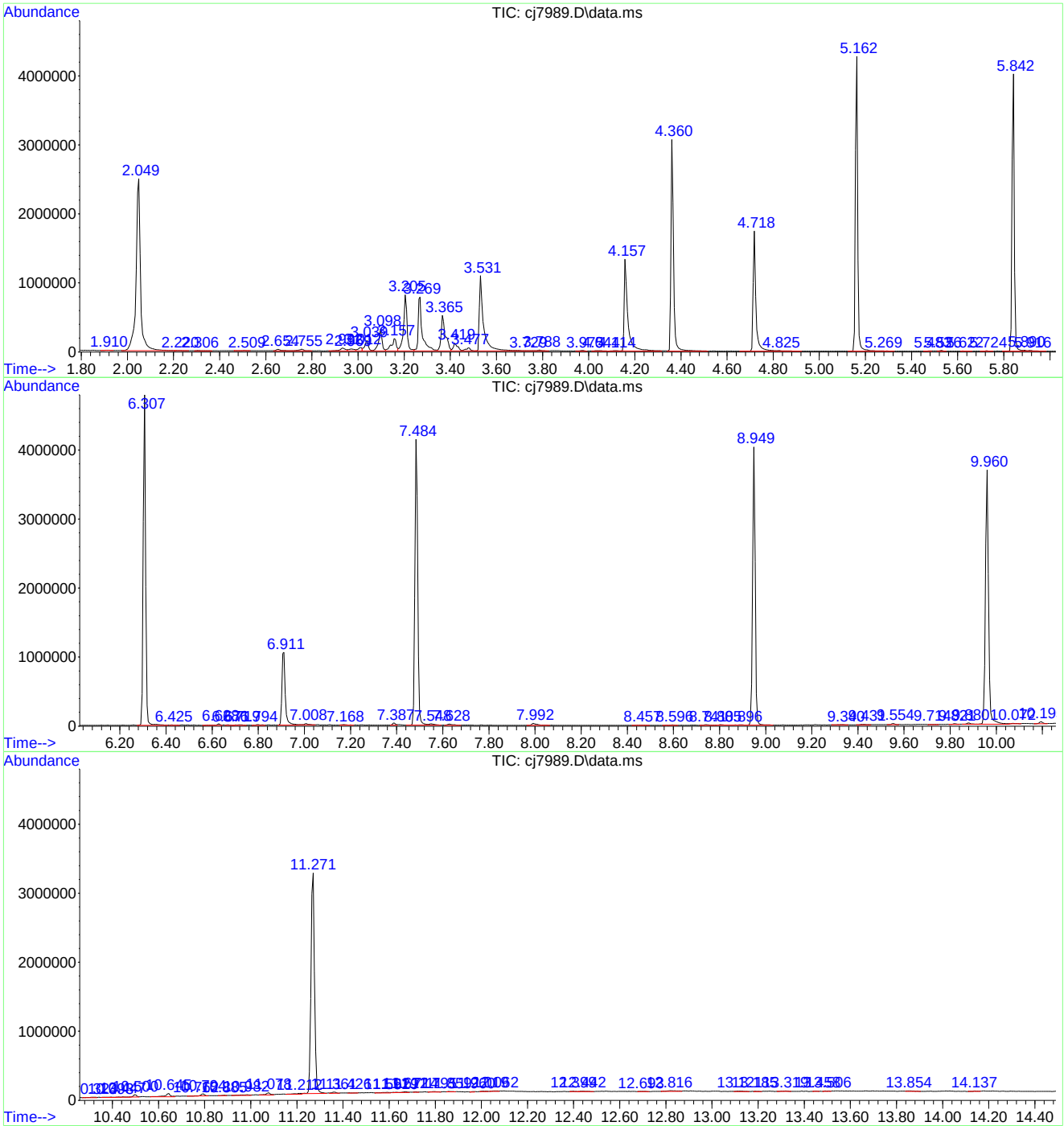
Sum of corrected areas: 38386799

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7989.D
Acq On : 01 Jul 2024 01:24 pm
Operator : karimam
Sample : op55759-mb1
Misc : op55759,ecj348,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library :
TIC Integration Parameters: lscint.p



Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\nerirose\ECJ348\
Data File : cj7989.D
Acq On : 01 Jul 2024 01:24 pm
Operator : karimam
Sample : op55759-mb1
Misc : op55759,ecj348,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\mCJ296.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library :
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220735.D
Acq On : 29 Jun 2024 1:38 pm
Operator : kristis
Sample : op55747-mb1 Inst : GCMSF
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 01:21:44 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 01 01:11:40 2024
Response via : Initial Calibration

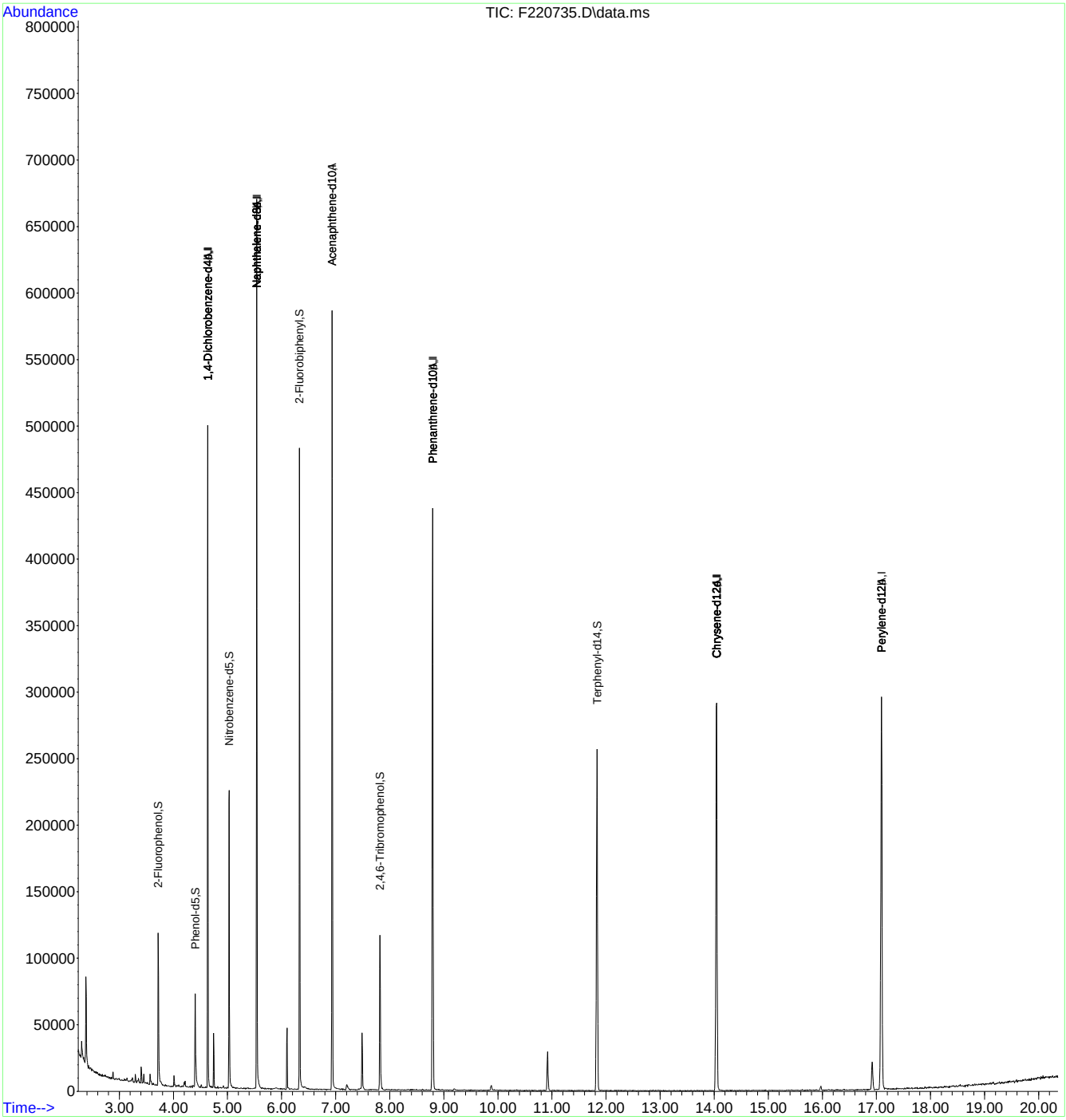
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.636	152	58781	40.00	ppm	0.00
24) Naphthalene-d8	5.539	136	227550	40.00	ppm	0.00
46) Acenaphthene-d10	6.933	164	118192	40.00	ppm	0.00
69) Phenanthrene-d10	8.792	188	197778	40.00	ppm	-0.01
83) Chrysene-d12	14.044	240	156756	40.00	ppm	-0.02
92) Perylene-d12	17.094	264	170972	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.636	152	58781	40.00	ppm	0.00
112) Naphthalene-d8A	5.539	136	227550	40.00	ppm	0.00
121) Acenaphthene-d10A	6.933	164	118192	40.00	ppm	0.00
132) Phenanthrene-d10A	8.792	188	197778	40.00	ppm	-0.01
147) Chrysene-d12A	14.044	240	156756	40.00	ppm	-0.02
154) Perylene-d12A	17.094	264	170972	40.00	ppm	-0.01
157) 1,4-Dichlorobenzene-d4b	4.636	152	58781	40.00	ppm	0.00
159) Phenanthrene-d10b	8.792	188	197778	40.00	ppm	-0.01
161) Naphthalene-d8b	5.539	136	227550	40.00	ppm	0.00
163) Naphthalene-d8c	5.539	136	227550	40.00	ppm	0.00
167) 1,4-Dichlorobenzene-d4c	4.636	152	58781	40.00	ppm	0.00
169) Chrysene-d12c	14.044	240	156756	40.00	ppm	-0.02
171) Chrysene-d12d	14.044	240	156756	40.00	ppm	-0.02
173) Naphthalene-d8d	5.539	136	227550	40.00	ppm	0.00
175) Chrysene-d12e	14.044	240	156756	40.00	ppm	-0.02
177) Perylene-d12b	17.094	264	170972	40.00	ppm	-0.01
179) Naphthalene-d8e	5.539	136	227550	40.00	ppm	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.717	112	30957	17.99	ppm	0.00
Spiked Amount 50.000			Recovery = 35.98%			
8) Phenol-d5	4.401	99	24227	11.76	ppm	0.00
Spiked Amount 50.000			Recovery = 23.52%			
25) Nitrobenzene-d5	5.032	82	62398	32.15	ppm	0.00
Spiked Amount 50.000			Recovery = 64.30%			
51) 2-Fluorobiphenyl	6.330	172	125309	33.24	ppm	0.00
Spiked Amount 50.000			Recovery = 66.48%			
73) 2,4,6-Tribromophenol	7.820	330	13800	33.58	ppm	0.00
Spiked Amount 50.000			Recovery = 67.16%			
86) Terphenyl-d14	11.832	244	129683	33.29	ppm	-0.01
Spiked Amount 50.000			Recovery = 66.58%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220735.D
Acq On : 29 Jun 2024 1:38 pm
Operator : kristis
Sample : op55747-mb1 Inst : GCMSF
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 01:21:44 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 01 01:11:40 2024
Response via : Initial Calibration



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220735.D
Acq On : 29 Jun 2024 1:38 pm
Operator : kristis
Sample : op55747-mb1
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 200
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Title : Semi Volatile Extractables by GC/MS

Signal : TIC: F220735.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.520	240	241	246	rVB5	1870	1434	0.28%	0.032%
2	3.568	246	250	258	rVV	8251	8945	1.76%	0.202%
3	3.621	258	260	268	rVB6	1577	2080	0.41%	0.047%
4	3.675	268	270	275	rVB5	1068	890	0.18%	0.020%
5	3.717	275	278	294	rVB	114843	106358	20.92%	2.405%
6	3.808	294	295	301	rVB5	1269	1319	0.26%	0.030%
7	3.851	301	303	305	rBV3	1428	1091	0.21%	0.025%
8	4.011	330	333	340	rVB2	8628	7804	1.53%	0.176%
9	4.065	340	343	348	rVV4	1322	1916	0.38%	0.043%
10	4.097	348	349	355	rVB4	1913	2131	0.42%	0.048%
11	4.161	355	361	364	rBV4	1217	1687	0.33%	0.038%
12	4.198	364	368	370	rVV3	3787	3620	0.71%	0.082%
13	4.214	370	371	376	rVB3	4565	2506	0.49%	0.057%
14	4.305	383	388	389	rVB4	1068	834	0.16%	0.019%
15	4.332	389	393	396	rVB4	1606	1737	0.34%	0.039%
16	4.364	396	399	403	rBV4	1841	2672	0.53%	0.060%
17	4.401	403	406	422	rVV	70551	71888	14.14%	1.626%
18	4.519	425	428	432	rVB4	2307	2209	0.43%	0.050%
19	4.593	436	442	446	rVB5	1074	1286	0.25%	0.029%
20	4.636	446	450	458	rBV	498153	352036	69.24%	7.960%
21	4.695	458	461	462	rVB3	1438	1149	0.23%	0.026%
22	4.716	462	465	467	rBV4	1105	1097	0.22%	0.025%
23	4.743	467	470	476	rVB	41492	29186	5.74%	0.660%
24	4.818	480	484	487	rBV5	1548	1173	0.23%	0.027%
25	4.925	497	504	507	rVB2	2127	2503	0.49%	0.057%
26	4.967	507	512	514	rVB3	869	1097	0.22%	0.025%
27	4.994	514	517	520	rBV4	1306	1252	0.25%	0.028%
28	5.032	520	524	536	rBV	223983	187407	36.86%	4.238%
29	5.181	551	552	559	rVB5	665	794	0.16%	0.018%
30	5.251	559	565	571	rVB7	715	1684	0.33%	0.038%
31	5.304	571	575	578	rBV4	1021	938	0.18%	0.021%
32	5.379	583	589	592	rBV6	1205	1369	0.27%	0.031%
33	5.539	614	619	635	rVB	669026	454773	89.45%	10.283%
34	5.635	635	637	640	rVV3	1382	1377	0.27%	0.031%
35	5.657	640	641	646	rVV3	992	979	0.19%	0.022%
36	5.694	646	648	651	rVB2	1016	795	0.16%	0.018%
37	5.763	660	661	667	rVB3	948	1443	0.28%	0.033%
38	5.908	681	688	693	rVB5	877	1890	0.37%	0.043%
39	5.982	701	702	708	rVB4	1033	1147	0.23%	0.026%
40	6.100	719	724	732	rBV	46356	36552	7.19%	0.827%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220735.D
Acq On : 29 Jun 2024 1:38 pm
Operator : kristis
Sample : op55747-mb1
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 200
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Title : Semi Volatile Extractables by GC/MS

41	6.180	735	739	747	rVB4	904	1832	0.36%	0.041%
42	6.239	747	750	756	rBV4	693	1150	0.23%	0.026%
43	6.330	762	767	782	rBV	482209	367682	72.32%	8.314%
44	6.431	784	786	792	rVB5	1467	2534	0.50%	0.057%
45	6.495	797	798	804	rVB3	1293	1201	0.24%	0.027%
46	6.650	824	827	833	rVB4	906	1268	0.25%	0.029%
47	6.709	833	838	840	rBV5	675	1008	0.20%	0.023%
48	6.933	874	880	897	rBV	585790	508416	100.00%	11.496%
49	7.040	897	900	904	rVB3	553	911	0.18%	0.021%
50	7.136	917	918	922	rBV3	996	1172	0.23%	0.027%
51	7.211	927	932	941	rBV2	4112	8832	1.74%	0.200%
52	7.291	944	947	950	rBV3	711	1011	0.20%	0.023%
53	7.393	962	966	969	rBV3	575	848	0.17%	0.019%
54	7.489	974	984	993	rVB	42890	46680	9.18%	1.056%
55	7.681	1016	1020	1026	rBV3	553	1276	0.25%	0.029%
56	7.820	1041	1046	1064	rVB	116603	126211	24.82%	2.854%
57	7.932	1064	1067	1070	rBV4	853	897	0.18%	0.020%
58	8.338	1140	1143	1147	rVB4	726	959	0.19%	0.022%
59	8.488	1166	1171	1175	rBV3	649	788	0.15%	0.018%
60	8.605	1190	1193	1196	rVB2	1238	1250	0.25%	0.028%
61	8.675	1200	1206	1209	rBV3	877	1018	0.20%	0.023%
62	8.792	1221	1228	1243	rBV	437743	486880	95.76%	11.009%
63	8.905	1247	1249	1254	rVB4	1012	898	0.18%	0.020%
64	9.065	1277	1279	1284	rVB3	749	1240	0.24%	0.028%
65	9.097	1284	1285	1294	rBV2	683	1707	0.34%	0.039%
66	9.188	1297	1302	1310	rBV3	1456	3751	0.74%	0.085%
67	9.321	1323	1327	1330	rBV3	486	851	0.17%	0.019%
68	9.503	1360	1361	1364	rBV2	859	765	0.15%	0.017%
69	9.583	1372	1376	1379	rBV3	578	797	0.16%	0.018%
70	9.626	1381	1384	1389	rVB2	526	874	0.17%	0.020%
71	9.690	1392	1396	1399	rVB4	689	969	0.19%	0.022%
72	9.877	1425	1431	1439	rBV5	3786	6854	1.35%	0.155%
73	9.973	1446	1449	1456	rVB3	747	1527	0.30%	0.035%
74	10.032	1456	1460	1462	rBV3	714	903	0.18%	0.020%
75	10.213	1489	1494	1495	rVB2	690	818	0.16%	0.018%
76	10.411	1528	1531	1537	rBV3	741	1023	0.20%	0.023%
77	10.459	1537	1540	1545	rVB2	679	926	0.18%	0.021%
78	10.523	1547	1552	1556	rBV3	706	1450	0.29%	0.033%
79	10.684	1574	1582	1589	rBV2	719	2167	0.43%	0.049%
80	10.919	1619	1626	1636	rBV	29453	40250	7.92%	0.910%
81	11.009	1639	1643	1647	rBV3	686	1127	0.22%	0.025%
82	11.357	1705	1708	1713	rVB	783	962	0.19%	0.022%
83	11.410	1716	1718	1723	rBV	654	982	0.19%	0.022%
84	11.496	1728	1734	1735	rBV2	543	784	0.15%	0.018%
85	11.688	1767	1770	1772	rVB	891	910	0.18%	0.021%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220735.D
Acq On : 29 Jun 2024 1:38 pm
Operator : kristis
Sample : op55747-mb1
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 200
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Title : Semi Volatile Extractables by GC/MS

86	11.832	1789	1797	1809	rVV	256773	364166	71.63%	8.234%
87	11.918	1809	1813	1820	rVB	542	1040	0.20%	0.024%
88	12.543	1928	1930	1934	rVB2	625	805	0.16%	0.018%
89	12.820	1977	1982	1987	rVB3	505	793	0.16%	0.018%
90	12.874	1987	1992	1996	rVB3	551	966	0.19%	0.022%
91	13.435	2095	2097	2103	rVB2	668	1273	0.25%	0.029%
92	13.504	2107	2110	2113	rBV	643	796	0.16%	0.018%
93	13.633	2130	2134	2138	rVB3	596	828	0.16%	0.019%
94	13.755	2152	2157	2160	rBV2	561	978	0.19%	0.022%
95	14.044	2202	2211	2228	rBV2	291771	450830	88.67%	10.194%
96	14.226	2240	2245	2246	rBV2	587	803	0.16%	0.018%
97	14.327	2261	2264	2270	rBV2	763	1352	0.27%	0.031%
98	14.380	2270	2274	2277	rVB2	751	891	0.18%	0.020%
99	14.429	2277	2283	2285	rBB2	575	1070	0.21%	0.024%
100	14.461	2285	2289	2294	rBV2	957	1361	0.27%	0.031%
101	14.642	2318	2323	2330	rVB2	583	922	0.18%	0.021%
102	14.728	2334	2339	2342	rBV4	688	937	0.18%	0.021%
103	15.016	2387	2393	2396	rBV2	577	1137	0.22%	0.026%
104	15.096	2405	2408	2412	rBV2	543	857	0.17%	0.019%
105	15.331	2448	2452	2460	rBV3	830	2133	0.42%	0.048%
106	15.609	2499	2504	2506	rBV	617	766	0.15%	0.017%
107	15.631	2506	2508	2513	rVB3	967	1001	0.20%	0.023%
108	15.684	2513	2518	2521	rBV	741	889	0.17%	0.020%
109	15.764	2526	2533	2534	rBV2	773	1231	0.24%	0.028%
110	15.828	2540	2545	2548	rVB3	663	1123	0.22%	0.025%
111	15.972	2563	2572	2578	rBV5	3331	5010	0.99%	0.113%
112	16.111	2592	2598	2605	rBV5	700	1665	0.33%	0.038%
113	16.256	2621	2625	2627	rBV2	930	1053	0.21%	0.024%
114	16.282	2627	2630	2633	rBV3	973	1053	0.21%	0.024%
115	16.394	2646	2651	2655	rVB2	853	1069	0.21%	0.024%
116	16.560	2677	2682	2688	rVB3	792	1964	0.39%	0.044%
117	16.662	2699	2701	2706	rBV	706	864	0.17%	0.020%
118	16.768	2715	2721	2723	rBV3	769	843	0.17%	0.019%
119	16.822	2729	2731	2734	rVB	944	954	0.19%	0.022%
120	16.843	2734	2735	2738	rBV2	1136	864	0.17%	0.020%
121	16.918	2738	2749	2758	rVB2	21339	36906	7.26%	0.835%
122	16.982	2758	2761	2763	rBV2	633	797	0.16%	0.018%
123	17.025	2766	2769	2772	rBV2	595	769	0.15%	0.017%
124	17.094	2772	2782	2792	rVV	295218	483608	95.12%	10.935%
125	17.223	2804	2806	2811	rBV3	920	1195	0.24%	0.027%
126	17.372	2833	2834	2837	rBV	1465	1088	0.21%	0.025%
127	17.490	2853	2856	2859	rVB3	939	1098	0.22%	0.025%
128	17.522	2859	2862	2865	rBV2	1147	1102	0.22%	0.025%
129	17.559	2865	2869	2874	rBV4	1265	1998	0.39%	0.045%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220735.D
Acq On : 29 Jun 2024 1:38 pm
Operator : kristis
Sample : op55747-mb1
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 200
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Title : Semi Volatile Extractables by GC/MS

130	17.607	2874	2878	2880	rBV4	964	1082	0.21%	0.024%
131	17.655	2880	2887	2889	rBV3	1064	1089	0.21%	0.025%
132	17.693	2889	2894	2896	rBV4	602	805	0.16%	0.018%
133	17.751	2903	2905	2909	rVB3	1333	1079	0.21%	0.024%
134	17.810	2909	2916	2918	rBV3	1134	1824	0.36%	0.041%
135	17.832	2918	2920	2922	rBV2	980	862	0.17%	0.019%
136	17.896	2927	2932	2938	rVV5	1350	2030	0.40%	0.046%
137	17.954	2938	2943	2945	rBV3	1187	1245	0.24%	0.028%
138	17.992	2948	2950	2955	rVV3	945	1260	0.25%	0.028%
139	18.061	2958	2963	2966	rBV2	928	1074	0.21%	0.024%
140	18.099	2969	2970	2975	rVB2	1024	1019	0.20%	0.023%
141	18.147	2975	2979	2982	rBV2	1104	1150	0.23%	0.026%
142	18.184	2982	2986	2988	rVV4	913	914	0.18%	0.021%
143	18.200	2988	2989	2995	rVB3	1262	1521	0.30%	0.034%
144	18.254	2995	2999	3000	rBV3	1558	1590	0.31%	0.036%
145	18.302	3005	3008	3012	rBV4	842	1076	0.21%	0.024%
146	18.350	3012	3017	3018	rVB3	1344	996	0.20%	0.023%
147	18.376	3018	3022	3023	rBV4	898	1190	0.23%	0.027%
148	18.425	3029	3031	3036	rVB3	1169	1026	0.20%	0.023%
149	18.473	3036	3040	3043	rBV4	1159	1120	0.22%	0.025%
150	18.526	3046	3050	3053	rBV4	1214	1729	0.34%	0.039%
151	18.547	3053	3054	3059	rVV3	1515	914	0.18%	0.021%
152	18.579	3059	3060	3065	rVB4	786	1012	0.20%	0.023%
153	18.633	3067	3070	3072	rVB2	1565	1300	0.26%	0.029%
154	18.660	3072	3075	3076	rBV3	1685	1887	0.37%	0.043%
155	18.681	3076	3079	3080	rVB3	1553	1153	0.23%	0.026%
156	18.702	3080	3083	3089	rBV4	1621	3584	0.70%	0.081%
157	18.777	3094	3097	3099	rVB4	1109	827	0.16%	0.019%
158	18.820	3102	3105	3108	rBV3	1217	1128	0.22%	0.026%
159	18.852	3108	3111	3114	rBV5	1061	1264	0.25%	0.029%
160	18.889	3114	3118	3121	rBV3	1027	996	0.20%	0.023%
161	18.927	3121	3125	3128	rVB4	1063	1259	0.25%	0.028%
162	18.953	3128	3130	3136	rBV6	1337	2076	0.41%	0.047%
163	19.028	3139	3144	3145	rBV4	1344	1691	0.33%	0.038%
164	19.108	3152	3159	3161	rVB5	1226	1886	0.37%	0.043%
165	19.135	3161	3164	3165	rVV2	1387	1127	0.22%	0.025%
166	19.162	3165	3169	3173	rVB6	2121	2650	0.52%	0.060%
167	19.242	3178	3184	3186	rBV4	1165	2034	0.40%	0.046%
168	19.274	3186	3190	3193	rVB6	1848	1957	0.38%	0.044%
169	19.306	3193	3196	3198	rBV3	1401	1464	0.29%	0.033%
170	19.381	3208	3210	3213	rBV3	1174	1593	0.31%	0.036%
171	19.429	3215	3219	3220	rVB4	1267	1273	0.25%	0.029%
172	19.450	3220	3223	3225	rBV4	1642	1878	0.37%	0.042%
173	19.541	3235	3240	3242	rVB5	1828	2570	0.51%	0.058%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220735.D
Acq On : 29 Jun 2024 1:38 pm
Operator : kristis
Sample : op55747-mb1
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 200
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Title : Semi Volatile Extractables by GC/MS

174	19.589	3242	3249	3252	rBV7	2780	4903	0.96%	0.111%
175	19.637	3252	3258	3262	rVV8	1624	3727	0.73%	0.084%
176	19.669	3262	3264	3268	rVV4	1297	1425	0.28%	0.032%
177	19.701	3268	3270	3272	rVV3	1556	1146	0.23%	0.026%
178	19.755	3275	3280	3283	rVV6	1633	2379	0.47%	0.054%
179	19.787	3283	3286	3288	rVV4	1053	918	0.18%	0.021%
180	19.813	3288	3291	3294	rVB5	1361	1391	0.27%	0.031%
181	19.835	3294	3295	3299	rVB4	1529	1550	0.30%	0.035%
182	19.862	3299	3300	3302	rBV2	2077	1224	0.24%	0.028%
183	19.894	3302	3306	3308	rVV4	986	1155	0.23%	0.026%
184	19.936	3310	3314	3316	rBV5	1380	1580	0.31%	0.036%
185	19.979	3318	3322	3325	rBV6	1802	2604	0.51%	0.059%
186	20.006	3325	3327	3332	rVB6	1844	2418	0.48%	0.055%
187	20.043	3332	3334	3335	rBV2	2331	1441	0.28%	0.033%
188	20.081	3340	3341	3343	rBV2	2280	1118	0.22%	0.025%
189	20.123	3345	3349	3350	rBV4	1473	1573	0.31%	0.036%
190	20.182	3358	3360	3362	rVB3	1492	961	0.19%	0.022%
191	20.219	3364	3367	3369	rVV3	1470	1280	0.25%	0.029%
192	20.257	3369	3374	3377	rVV6	1839	2054	0.40%	0.046%
193	20.294	3377	3381	3382	rBV4	1272	855	0.17%	0.019%
194	20.316	3382	3385	3388	rVV5	1295	1312	0.26%	0.030%

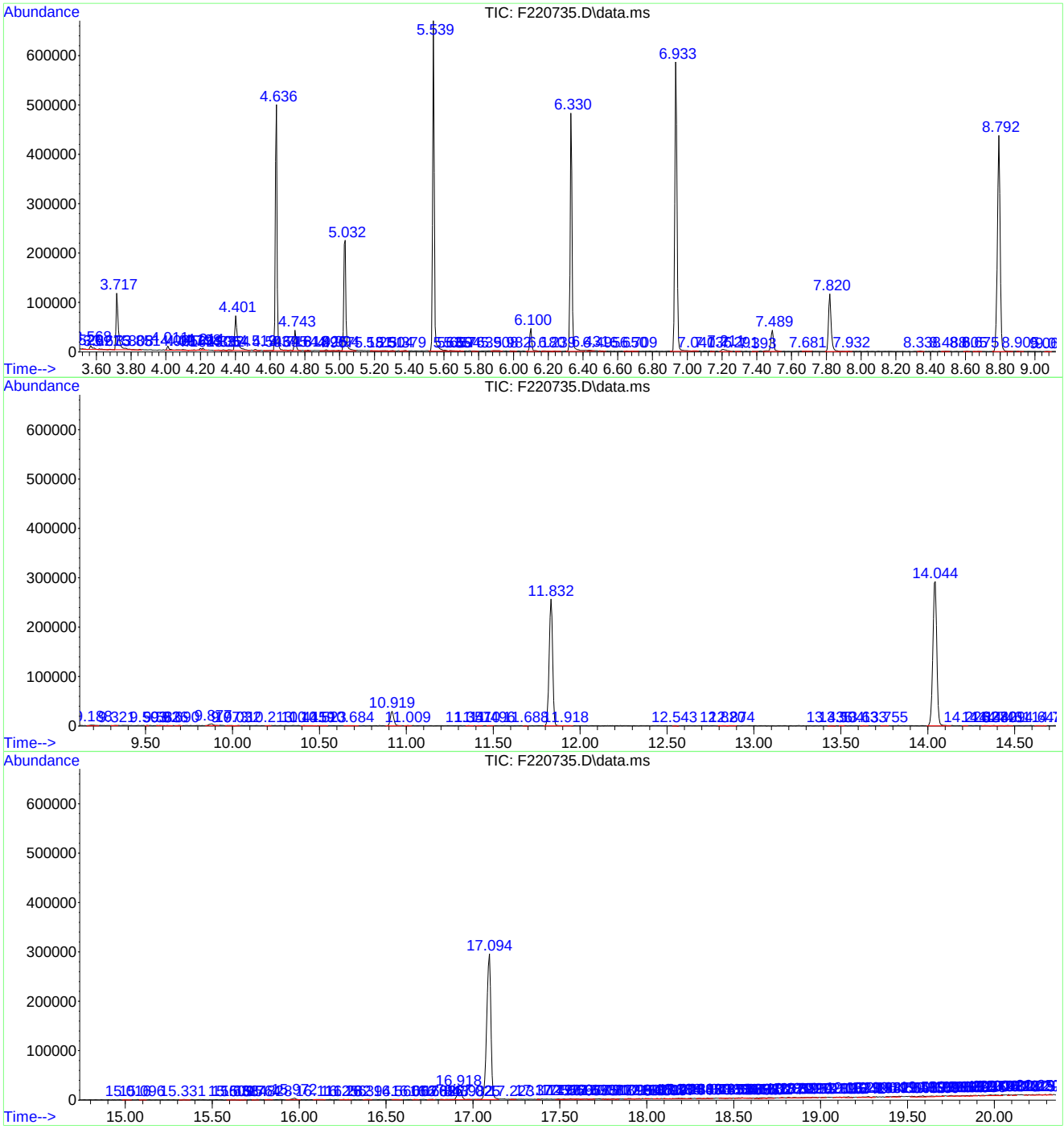
Sum of corrected areas: 4422473

LSC Report - Integrated Chromatogram

```
Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220735.D
Acq On    : 29 Jun 2024    1:38 pm
Operator  : kristis
Sample    : op55747-mb1
Misc      : op55747,ef9807,1000,,,1,1
ALS Vial  : 4   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Quant Title  : Semi Volatile Extractables by GC/MS

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P
```



Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\ef9807\
Data File : F220735.D
Acq On : 29 Jun 2024 1:38 pm
Operator : kristis
Sample : op55747-mb1
Misc : op55747,ef9807,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MF9803.M
Quant Title : Semi Volatile Extractables by GC/MS

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: LSCINT.P

					|--Internal Standard---|	
TIC Top Hit name	RT	EstConc	Units	Response	# RT Resp Conc

No Library Search Compounds Detected
****

7.2.4

7

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- DDT/Endrin Breakdown Checks
- GC Identification Summaries (Hits)
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55744-MB1	1G197505.D	1	06/29/24	TP	06/28/24	OP55744	G1G7068

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD91204-18, JD91204-19

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0050	0.0026	ug/l	
319-84-6	alpha-BHC	ND	0.0050	0.0026	ug/l	
319-85-7	beta-BHC	ND	0.0050	0.0040	ug/l	
319-86-8	delta-BHC	ND	0.0050	0.0033	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0050	0.0030	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0050	0.0025	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0050	0.0021	ug/l	
57-74-9	Chlordane (alpha and gamma)	ND	0.0050	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.0050	0.0038	ug/l	
72-54-8	4,4'-DDD	ND	0.0050	0.0029	ug/l	
72-55-9	4,4'-DDE	ND	0.0050	0.0025	ug/l	
50-29-3	4,4'-DDT	ND	0.0050	0.0034	ug/l	
72-20-8	Endrin	ND	0.0050	0.0030	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0050	0.0027	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0050	0.0034	ug/l	
53494-70-5	Endrin ketone	ND	0.0050	0.0031	ug/l	
959-98-8	Endosulfan-I	ND	0.0050	0.0026	ug/l	
33213-65-9	Endosulfan-II	ND	0.0050	0.0024	ug/l	
76-44-8	Heptachlor	ND	0.0050	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0050	0.0030	ug/l	
72-43-5	Methoxychlor	ND	0.010	0.0034	ug/l	
8001-35-2	Toxaphene	ND	0.13	0.082	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	67%	10-175%
877-09-8	Tetrachloro-m-xylene	69%	10-175%
2051-24-3	Decachlorobiphenyl	76%	10-128%
2051-24-3	Decachlorobiphenyl	68%	10-128%

Method Blank Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55745-MB1	XX2513573.D	1	06/29/24	TP	06/28/24	OP55745	GXX8562

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD91204-18, JD91204-19

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	0.098	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	0.21	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	0.13	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	0.23	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	0.22	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	0.21	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	0.087	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	0.23	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	70%	10-169%
877-09-8	Tetrachloro-m-xylene	61%	10-169%
2051-24-3	Decachlorobiphenyl	58%	10-130%
2051-24-3	Decachlorobiphenyl	58%	10-130%

Method Blank Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55761-MB1	5G138854.D	1	07/01/24	CP	06/29/24	OP55761	G5G3659

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.40	0.078	ug/kg	
319-84-6	alpha-BHC	ND	0.40	0.046	ug/kg	
319-85-7	beta-BHC	ND	0.40	0.058	ug/kg	
319-86-8	delta-BHC	ND	0.40	0.060	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.40	0.070	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.40	0.054	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.40	0.060	ug/kg	
57-74-9	Chlordane (alpha and gamma)	ND	0.40	0.054	ug/kg	
60-57-1	Dieldrin	ND	0.40	0.064	ug/kg	
72-54-8	4,4'-DDD	ND	0.40	0.042	ug/kg	
72-55-9	4,4'-DDE	ND	0.40	0.048	ug/kg	
50-29-3	4,4'-DDT	ND	0.40	0.070	ug/kg	
72-20-8	Endrin	ND	0.40	0.058	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.40	0.048	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.40	0.12	ug/kg	
959-98-8	Endosulfan-I	ND	0.40	0.054	ug/kg	
33213-65-9	Endosulfan-II	ND	0.40	0.056	ug/kg	
76-44-8	Heptachlor	ND	0.40	0.052	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.40	0.072	ug/kg	
72-43-5	Methoxychlor	ND	0.40	0.16	ug/kg	
53494-70-5	Endrin ketone	ND	0.40	0.064	ug/kg	
8001-35-2	Toxaphene	ND	5.0	3.3	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	61%	46-145%
877-09-8	Tetrachloro-m-xylene	76%	46-145%
2051-24-3	Decachlorobiphenyl	66%	29-163%
2051-24-3	Decachlorobiphenyl	58%	29-163%

Method Blank Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55762-MB1	RL17972.D	1	07/01/24	CP	06/29/24	OP55762	GRL399

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	8.5	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.7	ug/kg	
11141-16-5	Aroclor 1232	ND	20	17	ug/kg	
53469-21-9	Aroclor 1242	ND	20	12	ug/kg	
12672-29-6	Aroclor 1248	ND	20	4.3	ug/kg	
11097-69-1	Aroclor 1254	ND	20	2.2	ug/kg	
11096-82-5	Aroclor 1260	ND	20	6.9	ug/kg	
11100-14-4	Aroclor 1268	ND	20	2.0	ug/kg	
37324-23-5	Aroclor 1262	ND	20	1.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	81%	42-159%
877-09-8	Tetrachloro-m-xylene	98%	42-159%
2051-24-3	Decachlorobiphenyl	83%	18-154%
2051-24-3	Decachlorobiphenyl	91%	18-154%

Blank Spike Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55761-BS1	5G138855.D	1	07/01/24	CP	06/29/24	OP55761	G5G3659

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	5	4.1	82	71-115
319-84-6	alpha-BHC	5	4.2	84	69-110
319-85-7	beta-BHC	5	3.7	74	67-115
319-86-8	delta-BHC	5	3.9	78	58-110
58-89-9	gamma-BHC (Lindane)	5	4.1	82	70-108
5103-71-9	alpha-Chlordane	5	3.9	78	69-112
5103-74-2	gamma-Chlordane	5	3.9	78	68-111
57-74-9	Chlordane (alpha and gamma)	10	7.8	78	67-110
60-57-1	Dieldrin	5	4.1	82	71-112
72-54-8	4,4'-DDD	5	4.3	86	69-120
72-55-9	4,4'-DDE	5	4.2	84	71-108
50-29-3	4,4'-DDT	5	4.1	82	57-112
72-20-8	Endrin	5	4.6	92	71-121
1031-07-8	Endosulfan sulfate	5	4.3	86 [a]	68-108
7421-93-4	Endrin aldehyde	5	4.7	94 [a]	66-126
959-98-8	Endosulfan-I	5	4.7	94 [a]	65-114
33213-65-9	Endosulfan-II	5	4.0	80	65-115
76-44-8	Heptachlor	5	4.5	90	66-114
1024-57-3	Heptachlor epoxide	5	4.1	82	69-118
72-43-5	Methoxychlor	5	4.2	84	61-111
53494-70-5	Endrin ketone	5	3.8	76	70-108

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	64%	46-145%
877-09-8	Tetrachloro-m-xylene	77%	46-145%
2051-24-3	Decachlorobiphenyl	71%	29-163%
2051-24-3	Decachlorobiphenyl	59%	29-163%

(a) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55762-BS1	RL17973.D	1	07/01/24	CP	06/29/24	OP55762	GRL399

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	40	35.4	89	74-153
11104-28-2	Aroclor 1221		ND		50-150
11141-16-5	Aroclor 1232		ND		50-150
53469-21-9	Aroclor 1242		ND		50-150
12672-29-6	Aroclor 1248		ND		50-150
11097-69-1	Aroclor 1254		ND		50-150
11096-82-5	Aroclor 1260	40	33.0	83	68-147
11100-14-4	Aroclor 1268		ND		50-150
37324-23-5	Aroclor 1262		ND		50-150

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	83%	42-159%
877-09-8	Tetrachloro-m-xylene	99%	42-159%
2051-24-3	Decachlorobiphenyl	86%	18-154%
2051-24-3	Decachlorobiphenyl	95%	18-154%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55744-BS1	1G197506.D	1	06/29/24	TP	06/28/24	OP55744	G1G7068
OP55744-BSD	1G197507.D	1	06/29/24	TP	06/28/24	OP55744	G1G7068

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD91204-18, JD91204-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	0.25	0.26	104	0.17	68	42	40-161/45
319-84-6	alpha-BHC	0.25	0.28	112	0.18	72	43	40-169/48
319-85-7	beta-BHC	0.25	0.29	116	0.19	76	45* [a]	40-166/44
319-86-8	delta-BHC	0.25	0.19	76	0.12	48	45	40-158/47
58-89-9	gamma-BHC (Lindane)	0.25	0.28	112	0.18	72	43	40-169/47
5103-71-9	alpha-Chlordane	0.25	0.28	112	0.18	72	43	40-172/43
5103-74-2	gamma-Chlordane	0.25	0.29	116	0.18	72	47	40-177/48
57-74-9	Chlordane (alpha and gamma)	0.5	0.56	112	0.36	72	43	40-171/43
60-57-1	Dieldrin	0.25	0.30	120	0.19	76	45* [a]	40-175/44
72-54-8	4,4'-DDD	0.25	0.32	128	0.19	76	51* [a]	40-166/45
72-55-9	4,4'-DDE	0.25	0.28	112	0.16	64	55* [a]	40-165/45
50-29-3	4,4'-DDT	0.25	0.33	132	0.20	80	49* [a]	40-187/48
72-20-8	Endrin	0.25	0.30	120	0.19	76	45	40-179/46
1031-07-8	Endosulfan sulfate	0.25	0.28	112	0.17	68	49	40-168/49
7421-93-4	Endrin aldehyde	0.25	0.28	112	0.18	72	43	40-165/54
53494-70-5	Endrin ketone	0.25	0.32	128	0.20	80	46	40-165/46
959-98-8	Endosulfan-I	0.25	0.32	128	0.19	76	51* [a]	40-168/45
33213-65-9	Endosulfan-II	0.25	0.32	128	0.20	80	46	40-183/46
76-44-8	Heptachlor	0.25	0.26	104	0.17	68	42	40-165/46
1024-57-3	Heptachlor epoxide	0.25	0.28	112	0.18	72	43	40-171/44
72-43-5	Methoxychlor	0.25	0.28	112	0.17	68	49	40-175/52

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	105%	68%	10-175%
877-09-8	Tetrachloro-m-xylene	106%	65%	10-175%
2051-24-3	Decachlorobiphenyl	94%	59%	10-128%
2051-24-3	Decachlorobiphenyl	85%	54%	10-128%

(a) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55745-BS1	XX2513574.D	1	06/29/24	TP	06/28/24	OP55745	GXX8562
OP55745-BSD	XX2513575.D	1	06/29/24	TP	06/28/24	OP55745	GXX8562

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD91204-18, JD91204-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	2	2.3	115	2.0	100	14	40-152/49
11104-28-2	Aroclor 1221		ND		ND		nc	50-150/30
11141-16-5	Aroclor 1232		ND		ND		nc	50-150/30
53469-21-9	Aroclor 1242		ND		ND		nc	50-150/30
12672-29-6	Aroclor 1248		ND		ND		nc	50-150/30
11097-69-1	Aroclor 1254		ND		ND		nc	50-150/30
11096-82-5	Aroclor 1260	2	2.0	100	1.7	85	16	29-157/55
11100-14-4	Aroclor 1268		ND		ND		nc	50-150/30
37324-23-5	Aroclor 1262		ND		ND		nc	50-150/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	116%	96%	10-169%
877-09-8	Tetrachloro-m-xylene	96%	80%	10-169%
2051-24-3	Decachlorobiphenyl	67%	58%	10-130%
2051-24-3	Decachlorobiphenyl	68%	58%	10-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55761-MS [a]	5G138912.D	1	07/02/24	CP	06/29/24	OP55761	G5G3661
OP55761-MSD [a]	5G138913.D	1	07/02/24	CP	06/29/24	OP55761	G5G3661
JD91204-1 [a]	5G138914.D	1	07/02/24	CP	06/29/24	OP55761	G5G3661

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

CAS No.	Compound	JD91204-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		5.06	4.1	81	5.16	4.1	79	0	34-125/32
319-84-6	alpha-BHC	0.16	J	5.06	1.3	23* [b]	5.16	3.0	55	79* [c]	43-124/28
319-85-7	beta-BHC	ND		5.06	1.6	32	5.16	2.8	54	55* [c]	21-145/34
319-86-8	delta-BHC	0.19	J	5.06	0.91	14* [b]	5.16	2.4	43	90* [c]	36-119/32
58-89-9	gamma-BHC (Lindane)	0.12	J	5.06	1.5	27* [b]	5.16	4.5	85	100* [c]	48-118/28
5103-71-9	alpha-Chlordane	1.6		5.06	3.1	30	5.16	4.1	48	28	28-132/33
5103-74-2	gamma-Chlordane	1.4		5.06	2.9	30	5.16	3.2	35	10	20-132/33
57-74-9	Chlordane (alpha and gamma)	3.1		10.1	5.9	28	10.3	7.3	41	21	20-125/32
60-57-1	Dieldrin	0.28	J	5.06	3.5	64	5.16	3.3	59	6	32-134/32
72-54-8	4,4'-DDD	0.94		5.06	1.6	13* [b]	5.16	4.4	67	93* [c]	28-135/33
72-55-9	4,4'-DDE	0.99		5.06	6.7	113	5.16	3.3	45	68* [c]	23-133/32
50-29-3	4,4'-DDT	5.3		5.06	3.4	-38* [b]	5.16	7.5	43	75* [c]	10-144/41
72-20-8	Endrin	ND		5.06	5.2	103	5.16	4.4	85	17	33-143/33
1031-07-8	Endosulfan sulfate	ND		5.06	4.0	79	5.16	5.9	114	38* [c]	18-133/34
7421-93-4	Endrin aldehyde	ND		5.06	0.94	19* [d]	5.16	1.1	21	16	20-139/36
959-98-8	Endosulfan-I	ND		5.06	4.1	81	5.16	4.4	85	7	32-127/31
33213-65-9	Endosulfan-II	ND		5.06	1.5	30	5.16	3.7	72	85* [c]	28-128/33
76-44-8	Heptachlor	ND		5.06	4.7	93	5.16	4.6	89	2	30-133/34
1024-57-3	Heptachlor epoxide	0.48		5.06	2.7	44	5.16	3.4	57	23	37-131/32
72-43-5	Methoxychlor	ND		5.06	4.7	93	5.16	5.6	109	17	13-136/37
53494-70-5	Endrin ketone	ND		5.06	5.4	107	5.16	6.5	126	18	24-149/34
8001-35-2	Toxaphene	ND			ND			ND		nc	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	JD91204-1	Limits
877-09-8	Tetrachloro-m-xylene	60%	58%	59%	46-145%
877-09-8	Tetrachloro-m-xylene	54%	54%	54%	46-145%
2051-24-3	Decachlorobiphenyl	463%* [e]	388%* [e]	443%* [e]	29-163%
2051-24-3	Decachlorobiphenyl	98%	118%	66%	29-163%

(a) Had TBA cleanup.
(b) Outside of in house control limits.
(c) Analytical precision exceeds in-house control limits.
(d) Outside in house control limits due to degredation from TBA cleanup.
(e) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55762-MS	RL17974.D	1	07/01/24	CP	06/29/24	OP55762	GRL399
OP55762-MSD	RL17975.D	1	07/01/24	CP	06/29/24	OP55762	GRL399
JD91204-2	RL17977.D	1	07/01/24	CP	06/29/24	OP55762	GRL399

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

CAS No.	Compound	JD91204-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		41.2	33.8	82	39.6	33.3	84	1	41-167/46
11104-28-2	Aroclor 1221	ND			ND			ND		nc	50-150/30
11141-16-5	Aroclor 1232	ND			ND			ND		nc	50-150/30
53469-21-9	Aroclor 1242	ND			ND			ND		nc	50-150/17
12672-29-6	Aroclor 1248	ND			ND			ND		nc	50-150/16
11097-69-1	Aroclor 1254	ND			ND			ND		nc	10-165/38
11096-82-5	Aroclor 1260	ND		41.2	34.0	83	39.6	33.4	84	2	13-183/49
11100-14-4	Aroclor 1268	ND			ND			ND		nc	50-150/30
37324-23-5	Aroclor 1262	ND			ND			ND		nc	50-150/11

CAS No.	Surrogate Recoveries	MS	MSD	JD91204-2	Limits
877-09-8	Tetrachloro-m-xylene	83%	83%	81%	42-159%
877-09-8	Tetrachloro-m-xylene	99%	99%	97%	42-159%
2051-24-3	Decachlorobiphenyl	84%	84%	81%	18-154%
2051-24-3	Decachlorobiphenyl	94%	94%	91%	18-154%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7068-CC6859	**Injection Date:**	06/29/24
Lab File ID:	1G197503.D	**Injection Time:**	07:38
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal [a]	362997836	1.26	467282198	1.30
Check Std [b]	495028236	1.03	532073480	1.06
Upper Limit [c]	544496754	1.53	700923297	1.56
Lower Limit [d]	181498918	0.53	233641099	0.56

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP55744-MB1	416879546	1.03	427627165	1.06
OP55744-BS1	366228323	1.03	388185839	1.06
OP55744-BSD	401264057	1.03	420621046	1.06
JD91204-18	406670171	1.03	434753289	1.06
JD91204-19	360289630	1.03	392948244	1.06
OP55740-MB1	322972579	1.03	355628975	1.06
OP55740-BS1	424412414	1.03	448506764	1.06
OP55740-BSD	422590043	1.03	443308553	1.06
ZZZZZZ	425193018	1.03	448702295	1.06
ZZZZZZ	407506975	1.04	437832175	1.07
ZZZZZZ	413180368	1.03	460721506	1.07
ZZZZZZ	412609062	1.03	445830758	1.07
ZZZZZZ	426025415	1.04	470066799	1.07
ZZZZZZ	399754280	1.04	438411189	1.07
ZZZZZZ	424006764	1.04	452305504	1.07
ZZZZZZ	434913616	1.04	476707301	1.07
ZZZZZZ	410975229	1.03	441850546	1.07
ZZZZZZ	428718788	1.04	480601000	1.07
ZZZZZZ	396535771	1.03	404525085	1.06
ZZZZZZ	424302455	1.04	440906339	1.07
ZZZZZZ	428214799	1.04	458989675	1.07
ZZZZZZ	426889260	1.04	466571197	1.07
ZZZZZZ	356767847	1.04	390505655	1.07
ZZZZZZ	432114038	1.04	480499314	1.07

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Initial Cal is: G1G6859-ICC6859 1G192517.D 01/29/24 07:07. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 0.5 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -0.5 minutes of check standard.

Internal Standard Area Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3659-CC3634	**Injection Date:**	07/01/24
Lab File ID:	5G138852.D	**Injection Time:**	00:06
Instrument ID:	GC5G	**Method:**	SW846 8081B

	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT
Initial Cal [a]	2070368692	4.92	2006757540	4.62
Check Std [b]	2010922506	4.90	1477837446	4.61
Upper Limit [c]	3105553035	5.40	3010136310	5.11
Lower Limit [d]	1035184346	4.40	1003378770	4.11

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT
OP55761-MB1	2275634721	4.90	1750314198	4.61
OP55761-BS1	2212916392	4.90	1644429244	4.60
JD91204-2	1991028978	4.90	1702471083	4.60
JD91204-3	2134464866	4.90	2012946647	4.60
JD91204-4	2356388808	4.90	1478379557	4.61
JD91204-5	1822423157	4.90	2049805868	4.61
JD91204-6	1847287952	4.90	4305138832*	4.61
JD91204-7	1945363062	4.90	2173656208	4.60
JD91204-8	1917508238	4.90	1650371063	4.60
JD91204-10	1971676236	4.90	1762844699	4.60
JD91204-11	1848281546	4.90	2333450770	4.61
JD91204-12	1710410117	4.90	1621905675	4.60
JD91204-13	1979829081	4.90	1772405594	4.60
JD91204-15	2037450682	4.90	1769884696	4.61
JD91204-16	2001345480	4.90	2233984351	4.61
JD91204-17	2076849990	4.90	1754269341	4.61

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Initial Cal is: G5G3634-ICC3634 5G138220.D 06/05/24 11:18. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 0.5 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -0.5 minutes of check standard.

Internal Standard Area Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3661-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138887.D	**Injection Time:**	00:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT
Initial Cal [a]	207036892	4.92	200675754	4.62
Check Std [b]	214512921	4.91	157124356	4.61
Upper Limit [c]	310555303	5.41	301013631	5.11
Lower Limit [d]	103518434	4.41	100337877	4.11

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT
OP55814-MB1	258562492	4.91	185426149	4.61
OP55814-BS1	252054413	4.91	184514589	4.61
OP55814-LB46	250431984	4.91	183340203	4.61
OP55814-MS	247042772	4.91	177747370	4.61
OP55814-LS46	247042772	4.91	177747370	4.61
OP55814-MSD	260492946	4.91	191011559	4.61
ZZZZZZ	247812007	4.91	193089406	4.61
JD91275-3	262622031	4.91	193422064	4.61
ZZZZZZ	224325008	4.91	198253149	4.61
ZZZZZZ	251361192	4.91	199913352	4.61
ZZZZZZ	240269173	4.91	187191869	4.61
ZZZZZZ	242895122	4.91	195042785	4.61
ZZZZZZ	238815344	4.91	184556960	4.61
ZZZZZZ	237538890	4.91	179578534	4.61
ZZZZZZ	204149411	4.91	205292339	4.61
ZZZZZZ	240710895	4.91	195205265	4.61
ZZZZZZ	188810634	4.91	224400827	4.61
ZZZZZZ	181562904	4.91	271046175	4.61
ZZZZZZ	245381910	4.91	353843528	4.62
ZZZZZZ	174376639	4.91	147869413	4.61
JD91204-5	216135197	4.91	167641534	4.61
JD91204-7	222301370	4.91	177497454	4.61
JD91204-10	218411722	4.91	173120164	4.61
OP55761-MS [e]	223410590	4.91	166365367	4.61
OP55761-MSD [e]	213908493	4.91	168622047	4.61
JD91204-1 [e]	204012635	4.91	168500399	4.61
JD91204-9 [e]	185713634	4.91	172070387	4.61
JD91204-14 [e]	225984544	4.91	225613928	4.61

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Initial Cal is: G5G3634-ICC3634 5G138220.D 06/05/24 11:18. Area is AVERAGE of initial cal points.

Internal Standard Area Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3661-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138887.D	**Injection Time:**	00:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT

(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 0.5 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -0.5 minutes of check standard.
(e) Had TBA cleanup.

DDT/Endrin Breakdown Check

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G1G6859-DDT	**Injection Date:**	01/29/24
Lab File ID:	1G192510.D	**Injection Time:**	04:36
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	30454895	26937875
4,4'-DDE	8081068	8014062
4,4'-DDT	1465227398	1038255686
DDT Breakdown [a]	2.6 %	3.3 %
Endrin aldehyde	0	0
Endrin ketone	7264382	0
Endrin	860629168	713034344
Endrin Breakdown [b]	0.8 %	0 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G6859-IC6859	1G192513.D	01/29/24	06:02	01:26	Initial cal 1
G1G6859-IC6859	1G192514.D	01/29/24	06:18	01:42	Initial cal 2
G1G6859-IC6859	1G192515.D	01/29/24	06:35	01:59	Initial cal 5
G1G6859-IC6859	1G192516.D	01/29/24	06:51	02:15	Initial cal 10
G1G6859-ICC6859	1G192517.D	01/29/24	07:07	02:31	Initial cal 25
G1G6859-IC6859	1G192518.D	01/29/24	07:23	02:47	Initial cal 50
G1G6859-IC6859	1G192519.D	01/29/24	07:40	03:04	Initial cal 75
G1G6859-IC6859	1G192520.D	01/29/24	07:56	03:20	Initial cal 100
G1G6859-IC6859	1G192521.D	01/29/24	08:12	03:36	Initial cal 500
G1G6859-IC6859	1G192522.D	01/29/24	08:28	03:52	Initial cal 500
G1G6859-ICV6859	1G192523.D	01/29/24	08:45	04:09	Initial cal verification 25
G1G6859-ICV6859	1G192524.D	01/29/24	09:01	04:25	Initial cal verification 500
G1G6859-ICV6859	1G192525.D	01/29/24	09:17	04:41	Initial cal verification 500

DDT/Endrin Breakdown Check

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G1G7068-DDT	**Injection Date:**	06/29/24
Lab File ID:	1G197502.D	**Injection Time:**	07:23
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	4373951	4794995
4,4'-DDE	5201932	2198152
4,4'-DDT	688231031	735328051
DDT Breakdown [a]	1.4 %	0.9 %
Endrin aldehyde	6445179	306452
Endrin ketone	2985086	6567012
Endrin	446606794	480795071
Endrin Breakdown [b]	2.1 %	1.4 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G7068-CC6859	1G197503.D	06/29/24	07:38	00:15	Continuing cal 50
OP55744-MB1	1G197505.D	06/29/24	08:43	01:20	Method Blank
OP55744-BS1	1G197506.D	06/29/24	08:58	01:35	Blank Spike
OP55744-BSD	1G197507.D	06/29/24	09:14	01:51	Blank Spike Duplicate
JD91204-18	1G197509.D	06/29/24	09:44	02:21	FB-1
JD91204-19	1G197510.D	06/29/24	10:00	02:37	FB-2
OP55740-MB1	1G197511.D	06/29/24	10:15	02:52	Method Blank
OP55740-BS1	1G197512.D	06/29/24	10:30	03:08	Blank Spike
OP55740-BSD	1G197513.D	06/29/24	10:46	03:23	Blank Spike Duplicate
ZZZZZZ	1G197515.D	06/29/24	11:16	03:54	(unrelated sample)
ZZZZZZ	1G197516.D	06/29/24	11:32	04:09	(unrelated sample)
ZZZZZZ	1G197517.D	06/29/24	11:47	04:24	(unrelated sample)
ZZZZZZ	1G197518.D	06/29/24	12:02	04:40	(unrelated sample)
ZZZZZZ	1G197519.D	06/29/24	12:18	04:55	(unrelated sample)
ZZZZZZ	1G197520.D	06/29/24	12:33	05:10	(unrelated sample)
ZZZZZZ	1G197521.D	06/29/24	12:52	05:29	(unrelated sample)
ZZZZZZ	1G197522.D	06/29/24	13:07	05:45	(unrelated sample)
ZZZZZZ	1G197523.D	06/29/24	13:23	06:00	(unrelated sample)
ZZZZZZ	1G197524.D	06/29/24	13:38	06:15	(unrelated sample)
ZZZZZZ	1G197525.D	06/29/24	13:54	06:31	(unrelated sample)
ZZZZZZ	1G197526.D	06/29/24	14:09	06:46	(unrelated sample)
ZZZZZZ	1G197527.D	06/29/24	14:24	07:01	(unrelated sample)
ZZZZZZ	1G197528.D	06/29/24	14:39	07:17	(unrelated sample)
ZZZZZZ	1G197529.D	06/29/24	14:55	07:32	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G1G7068-DDT	**Injection Date:**	06/29/24
Lab File ID:	1G197502.D	**Injection Time:**	07:23
Instrument ID:	GC1G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	1G197530.D	06/29/24	15:10	07:48	(unrelated sample)
G1G7068-CC6859	1G197532.D	06/29/24	15:41	08:18	Continuing cal 25
OP53777-MB2	1G197534.D	06/29/24	16:12	08:49	Method Blank
ZZZZZZ	1G197535.D	06/29/24	16:27	09:04	(unrelated sample)
ZZZZZZ	1G197536.D	06/29/24	16:42	09:20	(unrelated sample)
ZZZZZZ	1G197537.D	06/29/24	16:58	09:35	(unrelated sample)
OP53899-MB2	1G197538.D	06/29/24	17:13	09:50	Method Blank
ZZZZZZ	1G197539.D	06/29/24	17:28	10:06	(unrelated sample)
ZZZZZZ	1G197540.D	06/29/24	17:44	10:21	(unrelated sample)
ZZZZZZ	1G197541.D	06/29/24	17:59	10:36	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G5G3634-DDT	**Injection Date:**	06/05/24
Lab File ID:	5G138212.D	**Injection Time:**	08:31
Instrument ID:	GC5G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	27772369	30893748
4,4'-DDE	7548576	11590614
4,4'-DDT	4541168099	3631866037
DDT Breakdown [a]	0.8 %	1.2 %
Endrin aldehyde	25767817	77731406
Endrin ketone	47700872	86938741
Endrin	2839711194	2315947197
Endrin Breakdown [b]	2.5 %	6.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G5G3634-IC3634	5G138214.D	06/05/24	09:13	00:42	Initial cal 50
G5G3634-IC3634	5G138215.D	06/05/24	09:34	01:03	Initial cal 50
G5G3634-IC3634	5G138216.D	06/05/24	09:55	01:24	Initial cal 0.1
G5G3634-IC3634	5G138217.D	06/05/24	10:16	01:45	Initial cal 0.2
G5G3634-IC3634	5G138218.D	06/05/24	10:37	02:06	Initial cal 0.5
G5G3634-IC3634	5G138219.D	06/05/24	10:57	02:26	Initial cal 1
G5G3634-ICC3634	5G138220.D	06/05/24	11:18	02:47	Initial cal 2.5
G5G3634-IC3634	5G138221.D	06/05/24	11:39	03:08	Initial cal 5
G5G3634-IC3634	5G138222.D	06/05/24	12:00	03:29	Initial cal 7.5
G5G3634-IC3634	5G138223.D	06/05/24	12:20	03:49	Initial cal 10
G5G3634-ICV3634	5G138224.D	06/05/24	12:41	04:10	Initial cal verification 2.5
G5G3634-ICV3634	5G138225.D	06/05/24	13:02	04:31	Initial cal verification 50
G5G3634-ICV3634	5G138226.D	06/05/24	13:22	04:51	Initial cal verification 50

DDT/Endrin Breakdown Check

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G5G3659-DDT	**Injection Date:**	06/30/24
Lab File ID:	5G138851.D	**Injection Time:**	23:46
Instrument ID:	GC5G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	137009081	220647053
4,4'-DDE	8852447	19496955
4,4'-DDT	3578225232	3995762607
DDT Breakdown [a]	3.9 %	5.7 %
Endrin aldehyde	40830335	43223224
Endrin ketone	91306851	133563553
Endrin	2234009257	2465658243
Endrin Breakdown [b]	5.6 %	6.7 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G5G3659-CC3634	5G138852.D	07/01/24	00:06	00:20	Continuing cal 5
OP55761-MB1	5G138854.D	07/01/24	00:48	01:02	Method Blank
OP55761-BS1	5G138855.D	07/01/24	01:09	01:23	Blank Spike
JD91204-2	5G138859.D	07/01/24	02:33	02:47	GRID-27
JD91204-3	5G138860.D	07/01/24	02:54	03:08	GRID-25
JD91204-4	5G138861.D	07/01/24	03:15	03:29	GRID-16
JD91204-5	5G138862.D	07/01/24	03:36	03:50	GRID-28
JD91204-6	5G138863.D	07/01/24	03:58	04:12	GRID-24A
JD91204-7	5G138864.D	07/01/24	04:19	04:33	GRID-17
JD91204-8	5G138865.D	07/01/24	04:40	04:54	GRID-14A
JD91204-10	5G138867.D	07/01/24	05:22	05:36	GRID-2
JD91204-11	5G138868.D	07/01/24	05:43	05:57	GRID-19
JD91204-12	5G138869.D	07/01/24	06:04	06:18	GRID-13
JD91204-13	5G138870.D	07/01/24	06:25	06:39	GRID-1
JD91204-15	5G138872.D	07/01/24	07:07	07:21	GRID-12A
JD91204-16	5G138873.D	07/01/24	07:28	07:42	GRID-22A
JD91204-17	5G138874.D	07/01/24	07:49	08:03	GRID-23

DDT/Endrin Breakdown Check

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G5G3661-DDT	**Injection Date:**	07/01/24
Lab File ID:	5G138885.D	**Injection Time:**	23:53
Instrument ID:	GC5G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	61989896	115112904
4,4'-DDE	8449355	13211032
4,4'-DDT	3970152556	4197765388
DDT Breakdown [a]	1.7 %	3 %
Endrin aldehyde	14636957	24123927
Endrin ketone	43773818	81952438
Endrin	2487235307	2565296782
Endrin Breakdown [b]	2.3 %	4 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G5G3661-CC3634	5G138887.D	07/02/24	00:35	00:42	Continuing cal 5
OP55814-MB1	5G138889.D	07/02/24	01:16	01:23	Method Blank
OP55814-BS1	5G138890.D	07/02/24	01:37	01:44	Blank Spike
OP55814-LB46	5G138891.D	07/02/24	01:58	02:05	Leachate Blank
OP55814-MS	5G138892.D	07/02/24	02:19	02:26	Matrix Spike
OP55814-LS46	5G138892.D	07/02/24	02:19	02:26	Leachate Spike
OP55814-MSD	5G138893.D	07/02/24	02:39	02:46	Matrix Spike Duplicate
ZZZZZZ	5G138894.D	07/02/24	03:00	03:07	(unrelated sample)
JD91275-3	5G138895.D	07/02/24	03:21	03:28	(used for QC only; not part of job JD91204)
ZZZZZZ	5G138896.D	07/02/24	03:42	03:49	(unrelated sample)
ZZZZZZ	5G138897.D	07/02/24	04:03	04:10	(unrelated sample)
ZZZZZZ	5G138898.D	07/02/24	04:24	04:31	(unrelated sample)
ZZZZZZ	5G138899.D	07/02/24	04:45	04:52	(unrelated sample)
ZZZZZZ	5G138900.D	07/02/24	05:06	05:13	(unrelated sample)
ZZZZZZ	5G138901.D	07/02/24	05:27	05:34	(unrelated sample)
ZZZZZZ	5G138902.D	07/02/24	05:47	05:54	(unrelated sample)
ZZZZZZ	5G138903.D	07/02/24	06:09	06:16	(unrelated sample)
ZZZZZZ	5G138905.D	07/02/24	06:50	06:57	(unrelated sample)
ZZZZZZ	5G138906.D	07/02/24	07:11	07:18	(unrelated sample)
ZZZZZZ	5G138907.D	07/02/24	07:32	07:39	(unrelated sample)
ZZZZZZ	5G138908.D	07/02/24	07:53	08:00	(unrelated sample)
JD91204-5	5G138909.D	07/02/24	08:14	08:21	GRID-28
JD91204-7	5G138910.D	07/02/24	08:35	08:42	GRID-17
JD91204-10	5G138911.D	07/02/24	08:56	09:03	GRID-2

DDT/Endrin Breakdown Check

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G5G3661-DDT	**Injection Date:**	07/01/24
Lab File ID:	5G138885.D	**Injection Time:**	23:53
Instrument ID:	GC5G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP55761-MS	5G138912.D	07/02/24	09:17	09:24	Matrix Spike
OP55761-MSD	5G138913.D	07/02/24	09:38	09:45	Matrix Spike Duplicate
JD91204-1	5G138914.D	07/02/24	09:59	10:06	GRID-26
JD91204-9	5G138915.D	07/02/24	10:20	10:27	GRID-15
JD91204-14	5G138916.D	07/02/24	10:41	10:48	GRID-18

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7068-CC6859	**Injection Date:**	06/29/24
Lab File ID:	1G197503.D	**Injection Time:**	07:38
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP55744-BS1	**Injection Date:**	06/29/24
Lab File ID:	1G197506.D	**Injection Time:**	08:58
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	2.72	2.72	0.26		ug/l	14.3
Aldrin	2	3.15	3.15	0.30		ug/l	
alpha-BHC	1 [a]	1.85	1.85	0.28		ug/l	6.9
alpha-BHC	2	2.06	2.06	0.30		ug/l	
beta-BHC	1 [a]	2.16	2.16	0.29		ug/l	3.4
beta-BHC	2	2.46	2.46	0.30		ug/l	
delta-BHC	1	2.31	2.30	0.21		ug/l	10.0
delta-BHC	2 [a]	2.75	2.74	0.19		ug/l	
gamma-BHC (Lindane)	1 [a]	2.08	2.08	0.28		ug/l	6.9
gamma-BHC (Lindane)	2	2.37	2.37	0.30		ug/l	
alpha-Chlordane	1 [a]	3.61	3.60	0.28		ug/l	10.2
alpha-Chlordane	2	4.26	4.26	0.31		ug/l	
gamma-Chlordane	1 [a]	3.46	3.46	0.29		ug/l	9.8
gamma-Chlordane	2	4.07	4.07	0.32		ug/l	
Chlordane (alpha and gamma)	n/a [b]			0.56		ug/l	
Dieldrin	1 [a]	4.05	4.04	0.30		ug/l	9.5
Dieldrin	2	4.72	4.71	0.33		ug/l	
4,4'-DDD	1 [a]	4.49	4.49	0.32		ug/l	3.1
4,4'-DDD	2	5.40	5.39	0.33		ug/l	
4,4'-DDE	1 [a]	3.73	3.72	0.28		ug/l	10.2
4,4'-DDE	2	4.52	4.52	0.31		ug/l	
4,4'-DDT	1 [a]	4.87	4.86	0.33		ug/l	11.4
4,4'-DDT	2	5.89	5.89	0.37		ug/l	
Endrin	1 [a]	4.33	4.33	0.30		ug/l	9.5
Endrin	2	5.16	5.16	0.33		ug/l	
Endosulfan sulfate	1 [a]	5.88	5.87	0.28		ug/l	10.2
Endosulfan sulfate	2	6.51	6.50	0.31		ug/l	
Endrin aldehyde	1 [a]	5.23	5.22	0.28		ug/l	6.9
Endrin aldehyde	2	6.04	6.04	0.30		ug/l	
Endrin ketone	1 [a]	6.31	6.30	0.32		ug/l	9.0
Endrin ketone	2	7.40	7.40	0.35		ug/l	
Endosulfan-I	1	3.76	3.75	0.33		ug/l	3.1
Endosulfan-I	2 [a]	4.33	4.33	0.32		ug/l	
Endosulfan-II	1 [a]	4.64	4.64	0.32		ug/l	3.1
Endosulfan-II	2	5.50	5.50	0.33		ug/l	
Heptachlor	1 [a]	2.46	2.45	0.26		ug/l	17.5
Heptachlor	2	2.80	2.80	0.31		ug/l	
Heptachlor epoxide	1 [a]	3.32	3.31	0.28		ug/l	13.3
Heptachlor epoxide	2	3.82	3.82	0.32		ug/l	
Methoxychlor	1 [a]	5.65	5.64	0.28		ug/l	19.4
Methoxychlor	2	7.10	7.10	0.34		ug/l	

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7068-CC6859	**Injection Date:**	06/29/24
Lab File ID:	1G197503.D	**Injection Time:**	07:38
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP55744-BS1	**Injection Date:**	06/29/24
Lab File ID:	1G197506.D	**Injection Time:**	08:58
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7068-CC6859	**Injection Date:**	06/29/24
Lab File ID:	1G197503.D	**Injection Time:**	07:38
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP55744-BSD	**Injection Date:**	06/29/24
Lab File ID:	1G197507.D	**Injection Time:**	09:14
Client ID:	Blank Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	2.72	2.72	0.17		ug/l	11.1
Aldrin	2	3.15	3.15	0.19		ug/l	
alpha-BHC	1 [a]	1.85	1.85	0.18		ug/l	5.4
alpha-BHC	2	2.06	2.06	0.19		ug/l	
beta-BHC	1	2.16	2.16	0.19		ug/l	0.0
beta-BHC	2 [a]	2.46	2.46	0.19		ug/l	
delta-BHC	1	2.31	2.30	0.13		ug/l	8.0
delta-BHC	2 [a]	2.75	2.74	0.12		ug/l	
gamma-BHC (Lindane)	1 [a]	2.08	2.08	0.18		ug/l	5.4
gamma-BHC (Lindane)	2	2.37	2.37	0.19		ug/l	
alpha-Chlordane	1 [a]	3.61	3.60	0.18		ug/l	5.4
alpha-Chlordane	2	4.26	4.26	0.19		ug/l	
gamma-Chlordane	1 [a]	3.46	3.46	0.18		ug/l	5.4
gamma-Chlordane	2	4.07	4.07	0.19		ug/l	
Chlordane (alpha and gamma)	n/a [b]			0.36		ug/l	
Dieldrin	1 [a]	4.04	4.04	0.19		ug/l	5.1
Dieldrin	2	4.72	4.71	0.20		ug/l	
4,4'-DDD	1 [a]	4.50	4.49	0.19		ug/l	5.1
4,4'-DDD	2	5.40	5.39	0.20		ug/l	
4,4'-DDE	1 [a]	3.73	3.72	0.16		ug/l	17.1
4,4'-DDE	2	4.52	4.52	0.19		ug/l	
4,4'-DDT	1 [a]	4.87	4.86	0.20		ug/l	9.5
4,4'-DDT	2	5.89	5.89	0.22		ug/l	
Endrin	1 [a]	4.33	4.33	0.19		ug/l	5.1
Endrin	2	5.16	5.16	0.20		ug/l	
Endosulfan sulfate	1 [a]	5.88	5.87	0.17		ug/l	11.1
Endosulfan sulfate	2	6.51	6.50	0.19		ug/l	
Endrin aldehyde	1 [a]	5.23	5.22	0.18		ug/l	0.0
Endrin aldehyde	2	6.04	6.04	0.18		ug/l	
Endrin ketone	1 [a]	6.31	6.30	0.20		ug/l	4.9
Endrin ketone	2	7.40	7.40	0.21		ug/l	
Endosulfan-I	1	3.75	3.75	0.23		ug/l	19.0
Endosulfan-I	2 [a]	4.33	4.33	0.19		ug/l	
Endosulfan-II	1 [a]	4.64	4.64	0.20		ug/l	0.0
Endosulfan-II	2	5.50	5.50	0.20		ug/l	
Heptachlor	1 [a]	2.45	2.45	0.17		ug/l	11.1
Heptachlor	2	2.80	2.80	0.19		ug/l	
Heptachlor epoxide	1 [a]	3.32	3.31	0.18		ug/l	10.5
Heptachlor epoxide	2	3.82	3.82	0.20		ug/l	
Methoxychlor	1 [a]	5.65	5.64	0.17		ug/l	16.2
Methoxychlor	2	7.10	7.10	0.20		ug/l	

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7068-CC6859	**Injection Date:**	06/29/24
Lab File ID:	1G197503.D	**Injection Time:**	07:38
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP55744-BSD	**Injection Date:**	06/29/24
Lab File ID:	1G197507.D	**Injection Time:**	09:14
Client ID:	Blank Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GXX8562-CC8517	**Injection Date:**	06/29/24
Lab File ID:	XX2513571.D	**Injection Time:**	12:36
Instrument ID:	GCXX	**Method:**	SW846 8082A

Sample ID:	OP55745-BS1	**Injection Date:**	06/29/24
Lab File ID:	XX2513574.D	**Injection Time:**	13:27
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			2.3		ug/l	4.4
Aroclor 1016	2			2.2		ug/l	
AR1016-B	1	4.16	4.16	2.5		ug/l	
AR1016-B	2	5.47	5.48	2.2		ug/l	
AR1016-C	1	4.72	4.72	2.3		ug/l	
AR1016-C	2	6.13	6.13	2.1		ug/l	
AR1016-D	1	4.89	4.89	2.3		ug/l	
AR1016-D	2	6.32	6.32	2.2		ug/l	
AR1016-E	1	5.42	5.42	2.3		ug/l	
AR1016-E	2	6.99	6.99	2.1		ug/l	
Aroclor 1260	1 [a]			2.0		ug/l	10.5
Aroclor 1260	2			1.8		ug/l	
AR1260-A	1	7.41	7.41	2.1		ug/l	
AR1260-A	2	9.08	9.08	1.9		ug/l	
AR1260-B	1	7.96	7.96	2.0		ug/l	
AR1260-B	2	9.73	9.73	1.8		ug/l	
AR1260-C	1	8.30	8.30	2.0		ug/l	
AR1260-C	2	10.17	10.17	1.7		ug/l	
AR1260-D	1	8.72	8.72	2.0		ug/l	
AR1260-D	2	10.51	10.51	1.8		ug/l	
AR1260-E	1	9.12	9.12	1.8		ug/l	
AR1260-E	2	11.06	11.03	1.6		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GXX8562-CC8517	**Injection Date:**	06/29/24
Lab File ID:	XX2513571.D	**Injection Time:**	12:36
Instrument ID:	GCXX	**Method:**	SW846 8082A

Sample ID:	OP55745-BSD	**Injection Date:**	06/29/24
Lab File ID:	XX2513575.D	**Injection Time:**	13:44
Client ID:	Blank Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			2.0		ug/l	5.1
Aroclor 1016	2			1.9		ug/l	
AR1016-B	1	4.16	4.16	2.1		ug/l	
AR1016-B	2	5.48	5.48	1.9		ug/l	
AR1016-C	1	4.72	4.72	2.0		ug/l	
AR1016-C	2	6.13	6.13	1.8		ug/l	
AR1016-D	1	4.89	4.89	2.0		ug/l	
AR1016-D	2	6.32	6.32	1.9		ug/l	
AR1016-E	1	5.42	5.42	2.0		ug/l	
AR1016-E	2	6.99	6.99	1.8		ug/l	
Aroclor 1260	1 [a]			1.7		ug/l	6.1
Aroclor 1260	2			1.6		ug/l	
AR1260-A	1	7.41	7.41	1.8		ug/l	
AR1260-A	2	9.08	9.08	1.6		ug/l	
AR1260-B	1	7.96	7.96	1.8		ug/l	
AR1260-B	2	9.73	9.73	1.6		ug/l	
AR1260-C	1	8.30	8.30	1.7		ug/l	
AR1260-C	2	10.17	10.17	1.5		ug/l	
AR1260-D	1	8.72	8.72	1.8		ug/l	
AR1260-D	2	10.51	10.51	1.6		ug/l	
AR1260-E	1	9.12	9.12	1.6		ug/l	
AR1260-E	2	11.06	11.03	1.5		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3661-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138887.D	**Injection Time:**	00:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91204-1	**Injection Date:**	07/02/24
Lab File ID:	5G138914.D	**Injection Time:**	09:59
Client ID:	GRID-26		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-BHC	1	5.71	5.71	0.00018	J	mg/kg	11.8
alpha-BHC	2 [a]	6.36	6.36	0.00016	J	mg/kg	
delta-BHC	1	6.27	6.26	0.00028	J	mg/kg	38.3
delta-BHC	2 [a]	7.24	7.23	0.00019	J	mg/kg	
gamma-BHC (Lindane) [b]	1 [a]	6.00	6.00	0.00012	J	mg/kg	134.2
gamma-BHC (Lindane) [b]	2	6.76	6.77	0.00061		mg/kg	
alpha-Chlordane	1	7.81	7.81	0.0050		mg/kg	103.0
alpha-Chlordane [b]	2 [a]	9.04	9.03	0.0016		mg/kg	
gamma-Chlordane	1	7.65	7.65	0.0032		mg/kg	78.3
gamma-Chlordane [b]	2 [a]	8.82	8.82	0.0014		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.0031		mg/kg	
Dieldrin	1	8.31	8.30	0.00093		mg/kg	107.4
Dieldrin [b]	2 [a]	9.53	9.54	0.00028	J	mg/kg	
4,4'-DDD	1	8.75	8.74	0.0012		mg/kg	24.3
4,4'-DDD	2 [a]	10.23	10.22	0.00094		mg/kg	
4,4'-DDE	1	7.93	7.93	0.0047		mg/kg	130.4
4,4'-DDE [b]	2 [a]	9.31	9.30	0.00099		mg/kg	
4,4'-DDT	1	9.15	9.15	0.0071		mg/kg	29.0
4,4'-DDT	2 [a]	10.75	10.75	0.0053		mg/kg	
Heptachlor epoxide [d]	1	7.50	7.49	0.00052		mg/kg	8.0
Heptachlor epoxide [d]	2 [a]	8.54	8.54	0.00048		mg/kg	

(a) Final result reported from this column.
(b) More than 40 % RPD for detected concentrations between the two GC columns.
(c) Final reported result.
(d) Associated CCV outside of control limits low.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3659-CC3634	**Injection Date:**	07/01/24
Lab File ID:	5G138852.D	**Injection Time:**	00:06
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91204-2	**Injection Date:**	07/01/24
Lab File ID:	5G138859.D	**Injection Time:**	02:33
Client ID:	GRID-27		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
4,4'-DDE	1	7.93	7.93	0.00035	J	mg/kg	45.6
4,4'-DDE [a]	2 [b]	9.30	9.30	0.00022	J	mg/kg	
4,4'-DDT	1 [b]	9.15	9.15	0.000088	J	mg/kg	8.7
4,4'-DDT	2	10.74	10.74	0.000096	J	mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.

8.7.6

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GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3659-CC3634	**Injection Date:**	07/01/24
Lab File ID:	5G138852.D	**Injection Time:**	00:06
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91204-3	**Injection Date:**	07/01/24
Lab File ID:	5G138860.D	**Injection Time:**	02:54
Client ID:	GRID-25		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	7.79	7.81	0.0024		mg/kg	100.9
alpha-Chlordane [a]	2 [b]	9.03	9.03	0.00079		mg/kg	
gamma-Chlordane [a]	1 [b]	7.64	7.64	0.00078		mg/kg	153.3
gamma-Chlordane [a]	2	8.84	8.81	0.0059		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.0016		mg/kg	
Dieldrin	1 [b]	8.29	8.29	0.00048		mg/kg	13.6
Dieldrin	2	9.54	9.54	0.00055		mg/kg	
4,4'-DDD	1 [b]	8.74	8.74	0.00064		mg/kg	25.9
4,4'-DDD [d]	2	10.22	10.23	0.00083		mg/kg	
4,4'-DDE	1	7.93	7.93	0.0098		mg/kg	37.6
4,4'-DDE	2 [b]	9.30	9.30	0.0067		mg/kg	
4,4'-DDT	1	9.15	9.15	0.0124		mg/kg	2.4
4,4'-DDT	2 [b]	10.74	10.74	0.0121		mg/kg	
Heptachlor epoxide	1	7.49	7.49	0.00044		mg/kg	55.1
Heptachlor epoxide [a]	2 [b]	8.54	8.54	0.00025	J	mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Associated CCV outside of control limits high.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3659-CC3634	**Injection Date:**	07/01/24
Lab File ID:	5G138852.D	**Injection Time:**	00:06
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91204-4	**Injection Date:**	07/01/24
Lab File ID:	5G138861.D	**Injection Time:**	03:15
Client ID:	GRID-16		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-BHC	1	5.70	5.71	0.00016	J	mg/kg	13.3
alpha-BHC	2 [a]	6.35	6.36	0.00014	J	mg/kg	
alpha-Chlordane	1	7.80	7.81	0.0521	E	mg/kg	132.9
alpha-Chlordane [b]	2 [a]	9.03	9.03	0.0105		mg/kg	
gamma-Chlordane	1	7.65	7.64	0.0124		mg/kg	77.1
gamma-Chlordane [b]	2 [a]	8.82	8.81	0.0055		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.0161		mg/kg	
Dieldrin	1	8.30	8.29	0.0032		mg/kg	84.4
Dieldrin [b]	2 [a]	9.54	9.54	0.0013		mg/kg	
4,4'-DDD [d]	1 [a]	8.75	8.74	0.0029		mg/kg	106.9
4,4'-DDD [e]	2	10.22	10.23	0.00088		mg/kg	
4,4'-DDE	1	7.93	7.93	0.0148		mg/kg	103.6
4,4'-DDE [b]	2 [a]	9.30	9.30	0.0047		mg/kg	
4,4'-DDT	1	9.15	9.15	0.0133		mg/kg	27.4
4,4'-DDT	2 [a]	10.74	10.74	0.0101		mg/kg	
Heptachlor epoxide	1	7.49	7.49	0.0086		mg/kg	54.8
Heptachlor epoxide [b]	2 [a]	8.54	8.54	0.0049		mg/kg	

(a) Final result reported from this column.
(b) More than 40 % RPD for detected concentrations between the two GC columns.
(c) Final reported result.
(d) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
(e) Associated CCV outside of control limits high.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3659-CC3634	**Injection Date:**	07/01/24
Lab File ID:	5G138852.D	**Injection Time:**	00:06
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91204-5	**Injection Date:**	07/01/24
Lab File ID:	5G138862.D	**Injection Time:**	03:36
Client ID:	GRID-28		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-BHC [a]	1 [b]	5.70	5.71	0.00012	J	mg/kg	58.8
alpha-BHC [a]	2	6.35	6.36	0.00022	J	mg/kg	
alpha-Chlordane	1	7.80	7.81	0.0047		mg/kg	98.4
alpha-Chlordane [a]	2 [b]	9.03	9.03	0.0016		mg/kg	
gamma-Chlordane	1	7.64	7.64	0.0020		mg/kg	58.1
gamma-Chlordane [a]	2 [b]	8.82	8.81	0.0011		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.0027		mg/kg	
Dieldrin	1	8.29	8.29	0.00081		mg/kg	41.8
Dieldrin [a]	2 [b]	9.54	9.54	0.00053		mg/kg	
4,4'-DDD	1 [b]	8.74	8.74	0.0030		mg/kg	6.5
4,4'-DDD [d]	2	10.22	10.23	0.0032		mg/kg	
Heptachlor epoxide	1	7.49	7.49	0.0011		mg/kg	34.0
Heptachlor epoxide	2 [b]	8.54	8.54	0.00078		mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Associated CCV outside of control limits high.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3661-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138887.D	**Injection Time:**	00:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91204-5	**Injection Date:**	07/02/24
Lab File ID:	5G138909.D	**Injection Time:**	08:14
Client ID:	GRID-28		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
4,4'-DDE	1	7.93	7.93	0.0582		mg/kg	47.7
4,4'-DDE [a]	2 [b]	9.31	9.30	0.0358		mg/kg	
4,4'-DDT	1	9.15	9.15	0.0848		mg/kg	21.1
4,4'-DDT	2 [b]	10.75	10.75	0.0686		mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3659-CC3634	**Injection Date:**	07/01/24
Lab File ID:	5G138852.D	**Injection Time:**	00:06
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91204-6	**Injection Date:**	07/01/24
Lab File ID:	5G138863.D	**Injection Time:**	03:58
Client ID:	GRID-24A		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	7.80	7.81	0.0010		mg/kg	23.5
alpha-Chlordane	2 [a]	9.03	9.03	0.00079		mg/kg	
gamma-Chlordane [b]	1 [a]	7.64	7.64	0.0010		mg/kg	187.3
gamma-Chlordane [b]	2	8.84	8.81	0.0304	E	mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.0018		mg/kg	
Dieldrin	1	8.31	8.29	0.00016	J	mg/kg	20.7
Dieldrin	2 [a]	9.56	9.54	0.00013	J	mg/kg	
4,4'-DDD [b]	1 [a]	8.75	8.74	0.000072	J	mg/kg	50.0
4,4'-DDD [d]	2	10.22	10.23	0.00012	J	mg/kg	
4,4'-DDE	1	7.92	7.93	0.00036	J	mg/kg	82.4
4,4'-DDE [b]	2 [a]	9.30	9.30	0.00015	J	mg/kg	
4,4'-DDT [b]	1 [a]	9.14	9.15	0.00045		mg/kg	83.9
4,4'-DDT [b]	2	10.74	10.74	0.0011		mg/kg	
Heptachlor [b]	1 [a]	6.47	6.47	0.00043		mg/kg	110.9
Heptachlor [b]	2	7.31	7.32	0.0015		mg/kg	
Heptachlor epoxide [b]	1 [a]	7.49	7.49	0.00024	J	mg/kg	66.7
Heptachlor epoxide [b]	2	8.54	8.54	0.00048		mg/kg	

(a) Final result reported from this column.
(b) More than 40 % RPD for detected concentrations between the two GC columns.
(c) Final reported result.
(d) Associated CCV outside of control limits high.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3659-CC3634	**Injection Date:**	07/01/24
Lab File ID:	5G138852.D	**Injection Time:**	00:06
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91204-7	**Injection Date:**	07/01/24
Lab File ID:	5G138864.D	**Injection Time:**	04:19
Client ID:	GRID-17		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	7.81	7.81	0.0246	E	mg/kg	53.0
alpha-Chlordane [a]	2 [b]	9.03	9.03	0.0143		mg/kg	
Dieldrin	1	8.30	8.29	0.0011		mg/kg	13.6
Dieldrin	2 [b]	9.54	9.54	0.00096		mg/kg	
4,4'-DDD	1 [b]	8.74	8.74	0.00043		mg/kg	11.0
4,4'-DDD [c]	2	10.22	10.23	0.00048		mg/kg	
4,4'-DDE	1	7.92	7.93	0.0023		mg/kg	122.8
4,4'-DDE [a]	2 [b]	9.30	9.30	0.00055		mg/kg	
4,4'-DDT	1 [b]	9.15	9.15	0.0033		mg/kg	5.9
4,4'-DDT	2	10.74	10.74	0.0035		mg/kg	
Heptachlor [a]	1 [b]	6.47	6.47	0.00039	J	mg/kg	47.1
Heptachlor [a]	2	7.31	7.32	0.00063		mg/kg	
Heptachlor epoxide	1	7.49	7.49	0.0014		mg/kg	88.7
Heptachlor epoxide [a]	2 [b]	8.54	8.54	0.00054		mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Associated CCV outside of control limits high.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3661-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138887.D	**Injection Time:**	00:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91204-7	**Injection Date:**	07/02/24
Lab File ID:	5G138910.D	**Injection Time:**	08:35
Client ID:	GRID-17		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	7.81	7.81	0.0671		mg/kg	55.1
alpha-Chlordane [a]	2	9.04	9.03	0.0381		mg/kg	
gamma-Chlordane	1	7.65	7.65	0.0665		mg/kg	58.8
gamma-Chlordane [a]	2 [b]	8.82	8.82	0.0363		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.0745		mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3659-CC3634	**Injection Date:**	07/01/24
Lab File ID:	5G138852.D	**Injection Time:**	00:06
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91204-8	**Injection Date:**	07/01/24
Lab File ID:	5G138865.D	**Injection Time:**	04:40
Client ID:	GRID-14A		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
4,4'-DDE	1	7.93	7.93	0.00023	J	mg/kg	95.8
4,4'-DDE [a]	2 [b]	9.30	9.30	0.000081	J	mg/kg	
4,4'-DDT	1 [b]	9.15	9.15	0.00015	J	mg/kg	6.5
4,4'-DDT	2	10.74	10.74	0.00016	J	mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.

8.7.14
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GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3661-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138887.D	**Injection Time:**	00:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91204-9	**Injection Date:**	07/02/24
Lab File ID:	5G138915.D	**Injection Time:**	10:20
Client ID:	GRID-15		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
gamma-BHC (Lindane) [a]	1 [b]	6.00	6.00	0.00022	J	mg/kg	181.0
gamma-BHC (Lindane) [a]	2	6.76	6.77	0.0044		mg/kg	
alpha-Chlordane	1	7.80	7.81	0.0055		mg/kg	114.3
alpha-Chlordane [a]	2 [b]	9.04	9.03	0.0015		mg/kg	
gamma-Chlordane	1	7.63	7.65	0.0173		mg/kg	181.1
gamma-Chlordane [a]	2 [b]	8.82	8.82	0.00086		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.0024		mg/kg	
Dieldrin	1	8.30	8.30	0.0013		mg/kg	33.2
Dieldrin	2 [b]	9.54	9.54	0.00093		mg/kg	
4,4'-DDD	1	8.75	8.74	0.0019		mg/kg	17.1
4,4'-DDD	2 [b]	10.23	10.22	0.0016		mg/kg	
4,4'-DDE	1	7.94	7.93	0.0219		mg/kg	73.8
4,4'-DDE [a]	2 [b]	9.31	9.30	0.0101		mg/kg	
4,4'-DDT	1	9.15	9.15	0.0257	E	mg/kg	38.5
4,4'-DDT	2 [b]	10.75	10.75	0.0174		mg/kg	
Heptachlor epoxide [d]	1	7.50	7.49	0.0010		mg/kg	24.7
Heptachlor epoxide [d]	2 [b]	8.54	8.54	0.00078		mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Associated CCV outside of control limits low.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3659-CC3634	**Injection Date:**	07/01/24
Lab File ID:	5G138852.D	**Injection Time:**	00:06
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91204-10	**Injection Date:**	07/01/24
Lab File ID:	5G138867.D	**Injection Time:**	05:22
Client ID:	GRID-2		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	7.79	7.81	0.0076		mg/kg	123.4
alpha-Chlordane [a]	2 [b]	9.03	9.03	0.0018		mg/kg	
gamma-Chlordane	1	7.63	7.64	0.0017		mg/kg	34.5
gamma-Chlordane	2 [b]	8.81	8.81	0.0012		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.0030		mg/kg	
Dieldrin	1	8.29	8.29	0.0017		mg/kg	42.9
Dieldrin [a]	2 [b]	9.54	9.54	0.0011		mg/kg	
4,4'-DDD	1 [b]	8.74	8.74	0.0083		mg/kg	9.2
4,4'-DDD [d]	2	10.22	10.23	0.0091		mg/kg	
Heptachlor epoxide	1	7.49	7.49	0.0023		mg/kg	55.6
Heptachlor epoxide [a]	2 [b]	8.54	8.54	0.0013		mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Associated CCV outside of control limits high.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3661-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138887.D	**Injection Time:**	00:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91204-10	**Injection Date:**	07/02/24
Lab File ID:	5G138911.D	**Injection Time:**	08:56
Client ID:	GRID-2		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
4,4'-DDE	1	7.93	7.93	0.126		mg/kg	33.5
4,4'-DDE	2 [a]	9.31	9.30	0.0898		mg/kg	
4,4'-DDT	1	9.15	9.15	0.203		mg/kg	20.7
4,4'-DDT	2 [a]	10.75	10.75	0.165		mg/kg	

(a) Final result reported from this column.

8.7.17

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GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3659-CC3634	**Injection Date:**	07/01/24
Lab File ID:	5G138852.D	**Injection Time:**	00:06
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91204-11	**Injection Date:**	07/01/24
Lab File ID:	5G138868.D	**Injection Time:**	05:43
Client ID:	GRID-19		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	7.81	7.81	0.0097		mg/kg	60.4
alpha-Chlordane [a]	2 [b]	9.03	9.03	0.0052		mg/kg	
gamma-Chlordane	1	7.64	7.64	0.0055		mg/kg	71.6
gamma-Chlordane [a]	2 [b]	8.82	8.81	0.0026		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.0078		mg/kg	
Dieldrin	1 [b]	8.29	8.29	0.0012		mg/kg	8.0
Dieldrin	2	9.54	9.54	0.0013		mg/kg	
4,4'-DDD	1 [b]	8.74	8.74	0.00098		mg/kg	35.3
4,4'-DDD [d]	2	10.22	10.23	0.0014		mg/kg	
4,4'-DDE	1	7.93	7.93	0.0078		mg/kg	38.2
4,4'-DDE	2 [b]	9.30	9.30	0.0053		mg/kg	
4,4'-DDT	1 [b]	9.15	9.15	0.0063		mg/kg	20.0
4,4'-DDT	2	10.74	10.74	0.0077		mg/kg	
Heptachlor epoxide	1	7.49	7.49	0.0012		mg/kg	66.7
Heptachlor epoxide [a]	2 [b]	8.54	8.54	0.00060		mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Associated CCV outside of control limits high.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3659-CC3634	**Injection Date:**	07/01/24
Lab File ID:	5G138852.D	**Injection Time:**	00:06
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91204-12	**Injection Date:**	07/01/24
Lab File ID:	5G138869.D	**Injection Time:**	06:04
Client ID:	GRID-13		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	7.80	7.81	0.0046		mg/kg	96.8
alpha-Chlordane [a]	2 [b]	9.03	9.03	0.0016		mg/kg	
gamma-Chlordane	1	7.64	7.64	0.0020		mg/kg	108.9
gamma-Chlordane [a]	2 [b]	8.81	8.81	0.00059		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.0021		mg/kg	
Dieldrin	1	8.29	8.29	0.00089		mg/kg	22.5
Dieldrin	2 [b]	9.54	9.54	0.00071		mg/kg	
4,4'-DDD [d]	1 [b]	8.74	8.74	0.00037	J	mg/kg	11.4
4,4'-DDD [e]	2	10.22	10.23	0.00033	J	mg/kg	
4,4'-DDE	1	7.93	7.93	0.0032		mg/kg	107.0
4,4'-DDE [a]	2 [b]	9.30	9.30	0.00097		mg/kg	
4,4'-DDT	1 [b]	9.15	9.15	0.0027		mg/kg	10.5
4,4'-DDT	2	10.74	10.74	0.0030		mg/kg	
Heptachlor epoxide	1	7.49	7.49	0.00099		mg/kg	65.8
Heptachlor epoxide [a]	2 [b]	8.54	8.54	0.00050		mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
(e) Associated CCV outside of control limits high.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3659-CC3634	**Injection Date:**	07/01/24
Lab File ID:	5G138852.D	**Injection Time:**	00:06
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91204-13	**Injection Date:**	07/01/24
Lab File ID:	5G138870.D	**Injection Time:**	06:25
Client ID:	GRID-1		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	7.79	7.81	0.0017		mg/kg	167.6
alpha-Chlordane [a]	2 [b]	9.03	9.03	0.00015	J	mg/kg	
gamma-Chlordane	1	7.64	7.64	0.00018	J	mg/kg	65.7
gamma-Chlordane [a]	2 [b]	8.81	8.81	0.000091	J	mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.00025	J	mg/kg	
Dieldrin	1	8.30	8.29	0.00029	J	mg/kg	52.2
Dieldrin [a]	2 [b]	9.54	9.54	0.00017	J	mg/kg	
4,4'-DDD [d]	1 [b]	8.75	8.74	0.00024	J	mg/kg	46.2
4,4'-DDD [e]	2	10.22	10.23	0.00015	J	mg/kg	
4,4'-DDE	1	7.93	7.93	0.0019		mg/kg	95.7
4,4'-DDE [a]	2 [b]	9.30	9.30	0.00067		mg/kg	
4,4'-DDT	1	9.14	9.15	0.0016		mg/kg	0.0
4,4'-DDT	2 [b]	10.74	10.74	0.0016		mg/kg	
Heptachlor epoxide	1	7.48	7.49	0.00029	J	mg/kg	69.8
Heptachlor epoxide [a]	2 [b]	8.54	8.54	0.00014	J	mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
(e) Associated CCV outside of control limits high.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3661-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138887.D	**Injection Time:**	00:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91204-14	**Injection Date:**	07/02/24
Lab File ID:	5G138916.D	**Injection Time:**	10:41
Client ID:	GRID-18		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
gamma-BHC (Lindane) [a]	1 [b]	6.00	6.00	0.000076	J	mg/kg	145.3
gamma-BHC (Lindane) [a]	2	6.76	6.77	0.00048		mg/kg	
alpha-Chlordane	1	7.81	7.81	0.0064		mg/kg	81.3
alpha-Chlordane [a]	2 [b]	9.04	9.03	0.0027		mg/kg	
gamma-Chlordane	1 [b]	7.65	7.65	0.0033		mg/kg	3.0
gamma-Chlordane	2	8.81	8.82	0.0034		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.0060		mg/kg	
Dieldrin	1	8.30	8.30	0.0043		mg/kg	60.6
Dieldrin [a]	2 [b]	9.54	9.54	0.0023		mg/kg	
4,4'-DDD	1	8.75	8.74	0.0019		mg/kg	5.4
4,4'-DDD	2 [b]	10.23	10.22	0.0018		mg/kg	
4,4'-DDE	1	7.93	7.93	0.0060		mg/kg	107.7
4,4'-DDE [a]	2 [b]	9.31	9.30	0.0018		mg/kg	
4,4'-DDT	1 [b]	9.15	9.15	0.0068		mg/kg	27.8
4,4'-DDT	2	10.75	10.75	0.0090		mg/kg	
Endrin aldehyde [d]	1 [b]	9.53	9.54	0.0019		mg/kg	85.7
Endrin aldehyde [e]	2	10.92	10.93	0.00076		mg/kg	
Heptachlor epoxide [e]	1	7.50	7.49	0.0011		mg/kg	62.5
Heptachlor epoxide [f]	2 [b]	8.54	8.54	0.0021		mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
(e) Associated CCV outside of control limits low.
(f) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3659-CC3634	**Injection Date:**	07/01/24
Lab File ID:	5G138852.D	**Injection Time:**	00:06
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91204-16	**Injection Date:**	07/01/24
Lab File ID:	5G138873.D	**Injection Time:**	07:28
Client ID:	GRID-22A		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	7.80	7.81	0.0016		mg/kg	57.0
alpha-Chlordane [a]	2 [b]	9.03	9.03	0.00089		mg/kg	
gamma-Chlordane [a]	1 [b]	7.63	7.64	0.0012		mg/kg	164.2
gamma-Chlordane [a]	2	8.84	8.81	0.0122		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.0021		mg/kg	
Dieldrin	1	8.29	8.29	0.00025	J	mg/kg	56.4
Dieldrin [a]	2 [b]	9.53	9.54	0.00014	J	mg/kg	
4,4'-DDD	1 [b]	8.74	8.74	0.00049		mg/kg	4.0
4,4'-DDD [d]	2	10.22	10.23	0.00051		mg/kg	
4,4'-DDE	1	7.92	7.93	0.0033		mg/kg	100.0
4,4'-DDE [a]	2 [b]	9.30	9.30	0.0011		mg/kg	
4,4'-DDT	1 [b]	9.14	9.15	0.0013		mg/kg	14.3
4,4'-DDT	2	10.74	10.74	0.0015		mg/kg	
Heptachlor epoxide	1	7.49	7.49	0.00036	J	mg/kg	48.3
Heptachlor epoxide [a]	2 [b]	8.54	8.54	0.00022	J	mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Associated CCV outside of control limits high.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3659-CC3634	**Injection Date:**	07/01/24
Lab File ID:	5G138852.D	**Injection Time:**	00:06
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	OP55761-BS1	**Injection Date:**	07/01/24
Lab File ID:	5G138855.D	**Injection Time:**	01:09
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1	6.79	6.79	4.7		ug/kg	13.6
Aldrin	2 [a]	7.74	7.74	4.1		ug/kg	
alpha-BHC	1	5.71	5.71	4.7		ug/kg	11.2
alpha-BHC	2 [a]	6.36	6.36	4.2		ug/kg	
beta-BHC	1	6.08	6.08	4.4		ug/kg	17.3
beta-BHC	2 [a]	6.86	6.86	3.7		ug/kg	
delta-BHC	1	6.26	6.25	4.2		ug/kg	7.4
delta-BHC	2 [a]	7.23	7.23	3.9		ug/kg	
gamma-BHC (Lindane)	1	6.00	6.00	4.9		ug/kg	17.8
gamma-BHC (Lindane)	2 [a]	6.77	6.77	4.1		ug/kg	
alpha-Chlordane	1	7.81	7.81	4.5		ug/kg	14.3
alpha-Chlordane	2 [a]	9.03	9.03	3.9		ug/kg	
gamma-Chlordane	1	7.64	7.64	4.5		ug/kg	14.3
gamma-Chlordane	2 [a]	8.81	8.81	3.9		ug/kg	
Chlordane (alpha and gamma)	n/a [b]			7.8		ug/kg	
Dieldrin	1	8.29	8.29	4.3		ug/kg	4.8
Dieldrin	2 [a]	9.54	9.54	4.1		ug/kg	
4,4'-DDD	1 [a]	8.74	8.74	4.3		ug/kg	22.7
4,4'-DDD	2	10.22	10.23	5.4		ug/kg	
4,4'-DDE	1	7.93	7.93	4.3		ug/kg	2.4
4,4'-DDE	2 [a]	9.30	9.30	4.2		ug/kg	
4,4'-DDT	1 [a]	9.15	9.15	4.1		ug/kg	4.8
4,4'-DDT	2	10.74	10.74	4.3		ug/kg	
Endrin	1 [a]	8.61	8.61	4.6		ug/kg	2.2
Endrin	2	10.03	10.03	4.7		ug/kg	
Endosulfan sulfate [c]	1 [a]	10.21	10.22	4.3		ug/kg	20.5
Endosulfan sulfate [c]	2	11.39	11.39	3.5		ug/kg	
Endrin aldehyde [c]	1 [a]	9.54	9.54	4.7		ug/kg	21.2
Endrin aldehyde [c]	2	10.93	10.93	3.8		ug/kg	
Endosulfan-I [c]	1 [a]	7.98	7.98	4.7		ug/kg	35.0
Endosulfan-I [c]	2	9.12	9.12	3.3		ug/kg	
Endosulfan-II	1	8.92	8.92	4.6		ug/kg	14.0
Endosulfan-II	2 [a]	10.37	10.37	4.0		ug/kg	
Heptachlor	1 [a]	6.47	6.47	4.5		ug/kg	18.2
Heptachlor	2	7.31	7.32	5.4		ug/kg	
Heptachlor epoxide	1	7.49	7.49	4.2		ug/kg	2.4
Heptachlor epoxide	2 [a]	8.54	8.54	4.1		ug/kg	
Methoxychlor	1 [a]	9.93	9.93	4.2		ug/kg	17.4
Methoxychlor	2	11.97	11.97	5.0		ug/kg	
Endrin ketone	1	10.64	10.64	4.2		ug/kg	10.0
Endrin ketone	2 [a]	12.33	12.33	3.8		ug/kg	

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3659-CC3634	**Injection Date:**	07/01/24
Lab File ID:	5G138852.D	**Injection Time:**	00:06
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	OP55761-BS1	**Injection Date:**	07/01/24
Lab File ID:	5G138855.D	**Injection Time:**	01:09
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.
(c) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3661-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138887.D	**Injection Time:**	00:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	OP55761-MS	**Injection Date:**	07/02/24
Lab File ID:	5G138912.D	**Injection Time:**	09:17
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	6.80	6.79	4.1		ug/kg	48.5
Aldrin	2	7.75	7.75	2.5		ug/kg	
alpha-BHC	1	5.71	5.71	1.7		ug/kg	26.7
alpha-BHC	2 [a]	6.37	6.36	1.3		ug/kg	
beta-BHC	1 [a]	6.09	6.08	1.6		ug/kg	13.3
beta-BHC	2	6.86	6.86	1.4		ug/kg	
delta-BHC	1	6.26	6.26	0.99		ug/kg	8.4
delta-BHC	2 [a]	7.23	7.23	0.91		ug/kg	
gamma-BHC (Lindane)	1 [a]	6.00	6.00	1.5		ug/kg	14.3
gamma-BHC (Lindane)	2	6.77	6.77	1.3		ug/kg	
alpha-Chlordane	1	7.81	7.81	6.1		ug/kg	65.2
alpha-Chlordane	2 [a]	9.04	9.03	3.1		ug/kg	
gamma-Chlordane	1	7.65	7.65	6.3		ug/kg	73.9
gamma-Chlordane	2 [a]	8.82	8.82	2.9		ug/kg	
Chlordane (alpha and gamma)	n/a [b]			5.9		ug/kg	
Dieldrin	1	8.30	8.30	5.3		ug/kg	40.9
Dieldrin	2 [a]	9.55	9.54	3.5		ug/kg	
4,4'-DDD	1	8.75	8.74	2.0		ug/kg	22.2
4,4'-DDD	2 [a]	10.23	10.22	1.6		ug/kg	
4,4'-DDE	1	7.93	7.93	16.6		ug/kg	85.0
4,4'-DDE	2 [a]	9.31	9.30	6.7		ug/kg	
4,4'-DDT	1	9.15	9.15	4.8		ug/kg	34.1
4,4'-DDT	2 [a]	10.75	10.75	3.4		ug/kg	
Endrin	1 [a]	8.61	8.61	5.2		ug/kg	53.7
Endrin	2	10.03	10.03	3.0		ug/kg	
Endosulfan sulfate	1 [a]	10.21	10.22	4.0		ug/kg	66.7
Endosulfan sulfate	2	11.40	11.40	2.0		ug/kg	
Endrin aldehyde	1 [a]	9.53	9.54	0.94		ug/kg	103.2
Endrin aldehyde	2	10.93	10.93	0.30	J	ug/kg	
Endosulfan-I	1 [a]	7.99	7.98	4.1		ug/kg	68.9
Endosulfan-I	2	9.12	9.12	2.0		ug/kg	
Endosulfan-II	1 [a]	8.93	8.93	1.5		ug/kg	12.5
Endosulfan-II	2	10.38	10.37	1.7		ug/kg	
Heptachlor	1 [a]	6.48	6.47	4.7		ug/kg	23.8
Heptachlor	2	7.32	7.32	3.7		ug/kg	
Heptachlor epoxide	1	7.49	7.49	4.7		ug/kg	54.1
Heptachlor epoxide	2 [a]	8.54	8.54	2.7		ug/kg	
Methoxychlor	1 [a]	9.93	9.93	4.7		ug/kg	23.8
Methoxychlor	2	11.98	11.97	3.7		ug/kg	
Endrin ketone	1 [a]	10.64	10.64	5.4		ug/kg	117.6
Endrin ketone	2	12.33	12.33	1.4		ug/kg	

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3661-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138887.D	**Injection Time:**	00:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	OP55761-MS	**Injection Date:**	07/02/24
Lab File ID:	5G138912.D	**Injection Time:**	09:17
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3661-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138887.D	**Injection Time:**	00:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	OP55761-MSD	**Injection Date:**	07/02/24
Lab File ID:	5G138913.D	**Injection Time:**	09:38
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	6.80	6.79	4.1		ug/kg	44.8
Aldrin	2	7.75	7.75	2.6		ug/kg	
alpha-BHC	1	5.71	5.71	4.3		ug/kg	35.6
alpha-BHC	2 [a]	6.37	6.36	3.0		ug/kg	
beta-BHC	1 [a]	6.09	6.08	2.8		ug/kg	28.6
beta-BHC	2	6.86	6.86	2.1		ug/kg	
delta-BHC	1	6.26	6.26	3.0		ug/kg	22.2
delta-BHC	2 [a]	7.23	7.23	2.4		ug/kg	
gamma-BHC (Lindane)	1 [a]	6.00	6.00	4.5		ug/kg	19.5
gamma-BHC (Lindane)	2	6.77	6.77	3.7		ug/kg	
alpha-Chlordane	1	7.81	7.81	9.3		ug/kg	77.6
alpha-Chlordane	2 [a]	9.04	9.03	4.1		ug/kg	
gamma-Chlordane	1	7.65	7.65	7.4		ug/kg	79.2
gamma-Chlordane	2 [a]	8.82	8.82	3.2		ug/kg	
Chlordane (alpha and gamma)	n/a [b]			7.3		ug/kg	
Dieldrin	1	8.30	8.30	4.9		ug/kg	39.0
Dieldrin	2 [a]	9.54	9.54	3.3		ug/kg	
4,4'-DDD	1	8.75	8.74	5.0		ug/kg	12.8
4,4'-DDD	2 [a]	10.23	10.22	4.4		ug/kg	
4,4'-DDE	1	7.93	7.93	8.9		ug/kg	91.8
4,4'-DDE	2 [a]	9.31	9.30	3.3		ug/kg	
4,4'-DDT	1	9.15	9.15	11.7		ug/kg	43.8
4,4'-DDT	2 [a]	10.75	10.75	7.5		ug/kg	
Endrin	1 [a]	8.61	8.61	4.4		ug/kg	31.6
Endrin	2	10.03	10.03	3.2		ug/kg	
Endosulfan sulfate	1 [a]	10.22	10.22	5.9		ug/kg	56.5
Endosulfan sulfate	2	11.40	11.40	3.3		ug/kg	
Endrin aldehyde	1 [a]	9.53	9.54	1.1		ug/kg	58.8
Endrin aldehyde	2	10.91	10.93	0.60		ug/kg	
Endosulfan-I	1 [a]	7.99	7.98	4.4		ug/kg	58.8
Endosulfan-I	2	9.12	9.12	2.4		ug/kg	
Endosulfan-II	1 [a]	8.93	8.93	3.7		ug/kg	20.9
Endosulfan-II	2	10.38	10.37	3.0		ug/kg	
Heptachlor	1 [a]	6.48	6.47	4.6		ug/kg	14.0
Heptachlor	2	7.32	7.32	4.0		ug/kg	
Heptachlor epoxide	1	7.49	7.49	4.5		ug/kg	27.8
Heptachlor epoxide	2 [a]	8.54	8.54	3.4		ug/kg	
Methoxychlor	1 [a]	9.93	9.93	5.6		ug/kg	3.6
Methoxychlor	2	11.98	11.97	5.4		ug/kg	
Endrin ketone	1 [a]	10.64	10.64	6.5		ug/kg	82.6
Endrin ketone	2	12.33	12.33	2.7		ug/kg	

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3661-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138887.D	**Injection Time:**	00:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	OP55761-MSD	**Injection Date:**	07/02/24
Lab File ID:	5G138913.D	**Injection Time:**	09:38
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRL399-CC343	**Injection Date:**	06/30/24
Lab File ID:	RL17970.D	**Injection Time:**	23:22
Instrument ID:	GCRL	**Method:**	SW846 8082A

Sample ID:	JD91204-1	**Injection Date:**	07/01/24
Lab File ID:	RL17976.D	**Injection Time:**	03:11
Client ID:	GRID-26		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1260 [a]	1 [b]			0.0086	J	mg/kg	54.9
Aroclor 1260 [a]	2			0.0151	J	mg/kg	
AR1260-C	1	8.21	8.21	0.0080	J	mg/kg	
AR1260-C	2	9.23	9.23	0.0192	J	mg/kg	
AR1260-D	1	8.54	8.55	0.0074	J	mg/kg	
AR1260-D	2	9.44	9.44	0.0151	J	mg/kg	
AR1260-E	1	8.82	8.83	0.0103	J	mg/kg	
AR1260-E	2	9.77	9.77	0.0111	J	mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRL399-CC343	**Injection Date:**	06/30/24
Lab File ID:	RL17970.D	**Injection Time:**	23:22
Instrument ID:	GCRL	**Method:**	SW846 8082A

Sample ID:	JD91204-4	**Injection Date:**	07/01/24
Lab File ID:	RL17979.D	**Injection Time:**	04:01
Client ID:	GRID-16		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1262	1 [a]			0.0150	J	mg/kg	25.6
Aroclor 1262	2			0.0194	J	mg/kg	
AR1262-C	1	8.21	8.23 [b]	0.0113	J	mg/kg	
AR1262-C	2	9.30	9.26 [b]	0.0117	J	mg/kg	
AR1262-D	1	8.54	8.57 [b]	0.0151	J	mg/kg	
AR1262-D	2	9.45	9.47 [b]	0.0284		mg/kg	
AR1262-E	1	8.87	8.88 [b]	0.0186	J	mg/kg	
AR1262-E	2	9.77	9.79 [b]	0.0182	J	mg/kg	

(a) Final result reported from this column.
(b) StdRT taken from init cal: GRL343-IC343 RL15622.D 04/29/24 06:12

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRL399-CC343	**Injection Date:**	06/30/24
Lab File ID:	RL17970.D	**Injection Time:**	23:22
Instrument ID:	GCRL	**Method:**	SW846 8082A

Sample ID:	JD91204-6	**Injection Date:**	07/01/24
Lab File ID:	RL17981.D	**Injection Time:**	04:35
Client ID:	GRID-24A		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1262	1 [a]			0.0061	J	mg/kg	12.3
Aroclor 1262	2			0.0069	J	mg/kg	
AR1262-B	1	7.92	7.95 [b]	0.0044	J	mg/kg	
AR1262-B	2	8.94	8.97 [b]	0.0057	J	mg/kg	
AR1262-D	1	8.54	8.57 [b]	0.0054	J	mg/kg	
AR1262-D	2	9.44	9.47 [b]	0.0043	J	mg/kg	
AR1262-E	1	8.86	8.88 [b]	0.0084	J	mg/kg	
AR1262-E	2	9.75	9.79 [b]	0.0105	J	mg/kg	

(a) Final result reported from this column.
(b) StdRT taken from init cal: GRL343-IC343 RL15622.D 04/29/24 06:12

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRL399-CC343	**Injection Date:**	06/30/24
Lab File ID:	RL17970.D	**Injection Time:**	23:22
Instrument ID:	GCRL	**Method:**	SW846 8082A

Sample ID:	JD91204-9	**Injection Date:**	07/01/24
Lab File ID:	RL17984.D	**Injection Time:**	05:25
Client ID:	GRID-15		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1262	1 [a]			0.0149	J	mg/kg	21.6
Aroclor 1262	2			0.0185	J	mg/kg	
AR1262-C	1	8.20	8.23 [b]	0.0105	J	mg/kg	
AR1262-C	2	9.30	9.26 [b]	0.0126	J	mg/kg	
AR1262-D	1	8.54	8.57 [b]	0.0141	J	mg/kg	
AR1262-D	2	9.45	9.47 [b]	0.0244		mg/kg	
AR1262-E	1	8.86	8.88 [b]	0.0200	J	mg/kg	
AR1262-E	2	9.75	9.79 [b]	0.0186	J	mg/kg	

(a) Final result reported from this column.
(b) StdRT taken from init cal: GRL343-IC343 RL15622.D 04/29/24 06:12

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRL399-CC343	**Injection Date:**	06/30/24
Lab File ID:	RL17970.D	**Injection Time:**	23:22
Instrument ID:	GCRL	**Method:**	SW846 8082A

Sample ID:	JD91204-11	**Injection Date:**	07/01/24
Lab File ID:	RL17986.D	**Injection Time:**	05:59
Client ID:	GRID-19		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1262	1 [a]			0.0117	J	mg/kg	0.9
Aroclor 1262	2			0.0118	J	mg/kg	
AR1262-C	1	8.20	8.23 [b]	0.0088	J	mg/kg	
AR1262-C	2	9.30	9.26 [b]	0.0062	J	mg/kg	
AR1262-D	1	8.54	8.57 [b]	0.0082	J	mg/kg	
AR1262-D	2	9.45	9.47 [b]	0.0124	J	mg/kg	
AR1262-E	1	8.86	8.88 [b]	0.0182	J	mg/kg	
AR1262-E	2	9.75	9.79 [b]	0.0169	J	mg/kg	

(a) Final result reported from this column.
(b) StdRT taken from init cal: GRL343-IC343 RL15622.D 04/29/24 06:12

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRL399-CC343	**Injection Date:**	06/30/24
Lab File ID:	RL17970.D	**Injection Time:**	23:22
Instrument ID:	GCRL	**Method:**	SW846 8082A

Sample ID:	JD91204-12	**Injection Date:**	07/01/24
Lab File ID:	RL17987.D	**Injection Time:**	06:15
Client ID:	GRID-13		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1262 [a]	1 [b]			0.0066	J	mg/kg	106.0
Aroclor 1262 [a]	2			0.0215		mg/kg	
AR1262-B	1	7.92	7.95 [c]	0.0068	J	mg/kg	
AR1262-B	2	8.94	8.97 [c]	0.0085	J	mg/kg	
AR1262-C	1	8.21	8.23 [c]	0.0081	J	mg/kg	
AR1262-C	2	9.30	9.26 [c]	0.0076	J	mg/kg	
AR1262-D	1	8.54	8.57 [c]	0.0049	J	mg/kg	
AR1262-D	2	9.45	9.47 [c]	0.0483		mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) StdRT taken from init cal: GRL343-IC343 RL15622.D 04/29/24 06:12

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRL399-CC343	**Injection Date:**	06/30/24
Lab File ID:	RL17970.D	**Injection Time:**	23:22
Instrument ID:	GCRL	**Method:**	SW846 8082A

Sample ID:	JD91204-13	**Injection Date:**	07/01/24
Lab File ID:	RL17988.D	**Injection Time:**	06:32
Client ID:	GRID-1		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1254 [a]	1 [b]			0.0039	J	mg/kg	44.0
Aroclor 1254 [a]	2			0.0061	J	mg/kg	
AR1254-A	1	5.89	5.87 [c]	0.0040	J	mg/kg	
AR1254-A	2	7.16	7.20 [c]	0.0069	J	mg/kg	
AR1254-D	1	6.76	6.79 [c]	0.0050	J	mg/kg	
AR1254-D	2	8.03	8.06 [c]	0.0069	J	mg/kg	
AR1254-E	1	7.24	7.21 [c]	0.0026	J	mg/kg	
AR1254-E	2	8.29	8.32 [c]	0.0046	J	mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) StdRT taken from init cal: GRL343-IC343 RL15620.D 04/29/24 05:38

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRL399-CC343	**Injection Date:**	07/01/24
Lab File ID:	RL17991.D	**Injection Time:**	07:22
Instrument ID:	GCRL	**Method:**	SW846 8082A

Sample ID:	JD91204-14	**Injection Date:**	07/01/24
Lab File ID:	RL17993.D	**Injection Time:**	07:56
Client ID:	GRID-18		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1254	1 [a]			0.0967		mg/kg	22.3
Aroclor 1254	2			0.121		mg/kg	
AR1254-A	1	5.84	5.87 [b]	0.0872		mg/kg	
AR1254-A	2	7.16	7.20 [b]	0.118		mg/kg	
AR1254-D	1	6.75	6.79 [b]	0.111		mg/kg	
AR1254-D	2	8.03	8.06 [b]	0.140		mg/kg	
AR1254-E	1	7.18	7.21 [b]	0.0920		mg/kg	
AR1254-E	2	8.28	8.32 [b]	0.104		mg/kg	
Aroclor 1260	1 [a]			0.0248		mg/kg	31.3
Aroclor 1260	2			0.0340		mg/kg	
AR1260-B	1	7.92	7.93	0.0190	J	mg/kg	
AR1260-B	2	8.94	8.94	0.0301		mg/kg	
AR1260-D	1	8.54	8.55	0.0233		mg/kg	
AR1260-D	2	9.44	9.44	0.0450		mg/kg	
AR1260-E	1	8.83	8.83	0.0320		mg/kg	
AR1260-E	2	9.77	9.77	0.0268		mg/kg	

(a) Final result reported from this column.
(b) StdRT taken from init cal: GRL343-IC343 RL15620.D 04/29/24 05:38

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRL399-CC343	**Injection Date:**	07/01/24
Lab File ID:	RL17991.D	**Injection Time:**	07:22
Instrument ID:	GCRL	**Method:**	SW846 8082A

Sample ID:	JD91204-16	**Injection Date:**	07/01/24
Lab File ID:	RL17995.D	**Injection Time:**	08:30
Client ID:	GRID-22A		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1254	1 [a]			0.0072	J	mg/kg	34.5
Aroclor 1254	2			0.0102	J	mg/kg	
AR1254-A	1	5.84	5.87 [b]	0.0082	J	mg/kg	
AR1254-A	2	7.16	7.20 [b]	0.0140	J	mg/kg	
AR1254-D	1	6.76	6.79 [b]	0.0078	J	mg/kg	
AR1254-D	2	8.03	8.06 [b]	0.0088	J	mg/kg	
AR1254-E	1	7.30	7.21 [b]	0.0055	J	mg/kg	
AR1254-E	2	8.28	8.32 [b]	0.0078	J	mg/kg	
Aroclor 1262 [c]	1 [a]			0.0031	J	mg/kg	52.4
Aroclor 1262 [c]	2			0.0053	J	mg/kg	
AR1262-C	1	8.21	8.23 [d]	0.0023	J	mg/kg	
AR1262-C	2	9.31	9.26 [d]	0.0036	J	mg/kg	
AR1262-D	1	8.54	8.57 [d]	0.0037	J	mg/kg	
AR1262-D	2	9.45	9.47 [d]	0.0091	J	mg/kg	
AR1262-E	1	8.87	8.88 [d]	0.0034	J	mg/kg	
AR1262-E	2	9.82	9.79 [d]	0.0031	J	mg/kg	

(a) Final result reported from this column.
(b) StdRT taken from init cal: GRL343-IC343 RL15620.D 04/29/24 05:38
(c) More than 40 % RPD for detected concentrations between the two GC columns.
(d) StdRT taken from init cal: GRL343-IC343 RL15622.D 04/29/24 06:12

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRL399-CC343	**Injection Date:**	06/30/24
Lab File ID:	RL17970.D	**Injection Time:**	23:22
Instrument ID:	GCRL	**Method:**	SW846 8082A

Sample ID:	OP55762-BS1	**Injection Date:**	07/01/24
Lab File ID:	RL17973.D	**Injection Time:**	02:21
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			35.4		ug/kg	14.7
Aroclor 1016	2			41.0		ug/kg	
AR1016-A	1	4.21	4.21	41.7		ug/kg	
AR1016-A	2	4.77	4.77	44.3		ug/kg	
AR1016-B	1	4.51	4.51	37.1		ug/kg	
AR1016-B	2	5.15	5.16	42.1		ug/kg	
AR1016-C	1	4.91	4.91	32.7		ug/kg	
AR1016-C	2	5.67	5.66	39.8		ug/kg	
AR1016-D	1	5.03	5.03	32.7		ug/kg	
AR1016-D	2	5.83	5.83	39.7		ug/kg	
AR1016-E	1	5.43	5.42	32.7		ug/kg	
AR1016-E	2	6.48	6.48	39.3		ug/kg	
Aroclor 1260	1 [a]			33.0		ug/kg	18.4
Aroclor 1260	2			39.7		ug/kg	
AR1260-A	1	7.45	7.44	32.2		ug/kg	
AR1260-A	2	8.48	8.48	41.0		ug/kg	
AR1260-B	1	7.94	7.93	33.6		ug/kg	
AR1260-B	2	8.95	8.94	42.7		ug/kg	
AR1260-C	1	8.22	8.21	34.4		ug/kg	
AR1260-C	2	9.23	9.23	40.1		ug/kg	
AR1260-D	1	8.55	8.55	33.0		ug/kg	
AR1260-D	2	9.45	9.44	38.4		ug/kg	
AR1260-E	1	8.84	8.83	32.0		ug/kg	
AR1260-E	2	9.77	9.77	36.3		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRL399-CC343	**Injection Date:**	06/30/24
Lab File ID:	RL17970.D	**Injection Time:**	23:22
Instrument ID:	GCRL	**Method:**	SW846 8082A

Sample ID:	OP55762-MS	**Injection Date:**	07/01/24
Lab File ID:	RL17974.D	**Injection Time:**	02:37
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			33.8		ug/kg	18.5
Aroclor 1016	2			40.7		ug/kg	
AR1016-C	1	4.91	4.91	33.3		ug/kg	
AR1016-C	2	5.66	5.66	40.3		ug/kg	
AR1016-D	1	5.03	5.03	33.6		ug/kg	
AR1016-D	2	5.83	5.83	41.2		ug/kg	
AR1016-E	1	5.43	5.42	34.3		ug/kg	
AR1016-E	2	6.48	6.48	40.6		ug/kg	
Aroclor 1260	1 [a]			34.0		ug/kg	18.4
Aroclor 1260	2			40.9		ug/kg	
AR1260-C	1	8.21	8.21	35.3		ug/kg	
AR1260-C	2	9.23	9.23	41.4		ug/kg	
AR1260-D	1	8.55	8.55	33.8		ug/kg	
AR1260-D	2	9.44	9.44	43.3		ug/kg	
AR1260-E	1	8.83	8.83	33.0		ug/kg	
AR1260-E	2	9.77	9.77	38.2		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRL399-CC343	**Injection Date:**	06/30/24
Lab File ID:	RL17970.D	**Injection Time:**	23:22
Instrument ID:	GCRL	**Method:**	SW846 8082A

Sample ID:	OP55762-MSD	**Injection Date:**	07/01/24
Lab File ID:	RL17975.D	**Injection Time:**	02:54
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			33.3		ug/kg	18.3
Aroclor 1016	2			40.0		ug/kg	
AR1016-C	1	4.91	4.91	33.1		ug/kg	
AR1016-C	2	5.66	5.66	40.0		ug/kg	
AR1016-D	1	5.03	5.03	33.1		ug/kg	
AR1016-D	2	5.83	5.83	40.5		ug/kg	
AR1016-E	1	5.42	5.42	33.6		ug/kg	
AR1016-E	2	6.48	6.48	39.4		ug/kg	
Aroclor 1260	1 [a]			33.4		ug/kg	17.2
Aroclor 1260	2			39.7		ug/kg	
AR1260-C	1	8.21	8.21	34.5		ug/kg	
AR1260-C	2	9.23	9.23	40.1		ug/kg	
AR1260-D	1	8.54	8.55	33.1		ug/kg	
AR1260-D	2	9.44	9.44	42.0		ug/kg	
AR1260-E	1	8.83	8.83	32.4		ug/kg	
AR1260-E	2	9.77	9.77	37.0		ug/kg	

(a) QC results reported from this column.

Surrogate Recovery Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8081B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD91204-18	1G197509.D	92	95	65	60
JD91204-19	1G197510.D	79	83	51	47
OP55744-BS1	1G197506.D	105	106	94	85
OP55744-BSD	1G197507.D	68	65	59	54
OP55744-MB1	1G197505.D	67	69	76	68

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	10-175%
S2 = Decachlorobiphenyl	10-128%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Surrogate Recovery Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8082A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD91204-18	XX2513576.D	88	75	47	47
JD91204-19	XX2513577.D	68	59	33	33
OP55745-BS1	XX2513574.D	116	96	67	68
OP55745-BSD	XX2513575.D	96	80	58	58
OP55745-MB1	XX2513573.D	70	61	58	58

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	10-169%
S2 = Decachlorobiphenyl	10-130%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Surrogate Recovery Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8081B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD91204-1	5G138914.D	59	54	443* [c]	66
JD91204-2	5G138859.D	59	75	65	62
JD91204-3	5G138860.D	47	68	104	89
JD91204-4	5G138861.D	58	49	519* [c]	113
JD91204-5	5G138909.D	61	74	421* [c]	76
JD91204-5	5G138862.D	45* [c]	58	817* [c]	193* [c]
JD91204-6	5G138863.D	23* [c]	69	50	94
JD91204-7	5G138910.D	122	157* [c]	295* [c]	176* [c]
JD91204-7	5G138864.D	43* [c]	62	178* [c]	92
JD91204-8	5G138865.D	60	77	56	64
JD91204-9	5G138915.D	51	54	805* [c]	207* [c]
JD91204-10	5G138911.D	78	83	236* [c]	91
JD91204-10	5G138867.D	50	54	602* [c]	153
JD91204-11	5G138868.D	39* [c]	59	378* [c]	189* [c]
JD91204-12	5G138869.D	57	72	254* [c]	126
JD91204-13	5G138870.D	54	70	99	79
JD91204-14	5G138916.D	43* [c]	50	420* [c]	49
JD91204-15	5G138872.D	57	72	56	57
JD91204-16	5G138873.D	41* [c]	57	275* [c]	112
JD91204-17	5G138874.D	58	73	56	57
OP55761-BS1	5G138855.D	64	77	71	59
OP55761-MB1	5G138854.D	61	76	66	58
OP55761-MS	5G138912.D	60	54	463* [c]	98
OP55761-MSD	5G138913.D	58	54	388* [c]	118

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	46-145%
S2 = Decachlorobiphenyl	29-163%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside control limits due to matrix interference.

Surrogate Recovery Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8082A **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD91204-1	RL17976.D	78	99	79	93
JD91204-2	RL17977.D	81	97	81	91
JD91204-3	RL17978.D	80	98	108	129
JD91204-4	RL17979.D	79	100	81	94
JD91204-5	RL17980.D	82	106	81	97
JD91204-6	RL17981.D	79	95	87	103
JD91204-7	RL17982.D	79	96	81	92
JD91204-8	RL17983.D	82	97	82	91
JD91204-9	RL17984.D	85	113	116	135
JD91204-10	RL17985.D	81	102	90	104
JD91204-11	RL17986.D	81	100	172* [c]	193* [c]
JD91204-12	RL17987.D	80	98	82	94
JD91204-13	RL17988.D	82	98	83	94
JD91204-14	RL17993.D	79	98	81	94
JD91204-15	RL17994.D	81	97	81	91
JD91204-16	RL17995.D	80	100	81	94
JD91204-17	RL17996.D	82	98	82	91
OP55762-BS1	RL17973.D	83	99	86	95
OP55762-MB1	RL17972.D	81	98	83	91
OP55762-MS	RL17974.D	83	99	84	94
OP55762-MSD	RL17975.D	83	99	84	94

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	42-159%
S2 = Decachlorobiphenyl	18-154%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside control limits due to matrix interference.

GC Surrogate Retention Time Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7068-CC6859	**Injection Date:**	06/29/24
Lab File ID:	1G197503.D	**Injection Time:**	07:38
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.50	1.61	8.17	9.74

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP55744-MB1	1G197505.D	06/29/24	08:43	1.50	1.61	8.19	9.75
OP55744-BS1	1G197506.D	06/29/24	08:58	1.50	1.61	8.18	9.74
OP55744-BSD	1G197507.D	06/29/24	09:14	1.50	1.61	8.18	9.74
JD91204-18	1G197509.D	06/29/24	09:44	1.50	1.61	8.17	9.74
JD91204-19	1G197510.D	06/29/24	10:00	1.50	1.61	8.17	9.74
OP55740-MB1	1G197511.D	06/29/24	10:15	1.50	1.61	8.17	9.74
OP55740-BS1	1G197512.D	06/29/24	10:30	1.50	1.61	8.17	9.73
OP55740-BSD	1G197513.D	06/29/24	10:46	1.50	1.61	8.17	9.74
ZZZZZZ	1G197515.D	06/29/24	11:16	1.50	1.61	8.17	9.75
ZZZZZZ	1G197516.D	06/29/24	11:32	1.50	1.61	8.18	9.74
ZZZZZZ	1G197517.D	06/29/24	11:47	1.50	1.61	8.17	9.74
ZZZZZZ	1G197518.D	06/29/24	12:02	1.50	1.61	8.17	9.74
ZZZZZZ	1G197519.D	06/29/24	12:18	1.50	1.61	8.18	9.74
ZZZZZZ	1G197520.D	06/29/24	12:33	1.50	1.61	8.17	9.73
ZZZZZZ	1G197521.D	06/29/24	12:52	1.50	1.61	8.18	9.75
ZZZZZZ	1G197522.D	06/29/24	13:07	1.50	1.61	8.17	9.74
ZZZZZZ	1G197523.D	06/29/24	13:23	1.50	1.61	8.17	9.73
ZZZZZZ	1G197524.D	06/29/24	13:38	1.50	1.61	8.17	9.73
ZZZZZZ	1G197525.D	06/29/24	13:54	1.50	1.61	8.17	9.74
ZZZZZZ	1G197526.D	06/29/24	14:09	1.50	1.61	8.17	9.74
ZZZZZZ	1G197527.D	06/29/24	14:24	1.50	1.61	8.17	9.73
ZZZZZZ	1G197528.D	06/29/24	14:39	1.50	1.61	8.17	9.73
ZZZZZZ	1G197529.D	06/29/24	14:55	1.50	1.61	8.17	9.74
ZZZZZZ	1G197530.D	06/29/24	15:10	1.50	1.61	8.17	9.74

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3659-CC3634	**Injection Date:**	07/01/24
Lab File ID:	5G138852.D	**Injection Time:**	00:06
Instrument ID:	GC5G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	5.24	5.72	12.43	14.18

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP55761-MB1	5G138854.D	07/01/24	00:48	5.24	5.72	12.43	14.18
OP55761-BS1	5G138855.D	07/01/24	01:09	5.23	5.72	12.43	14.18
JD91204-2	5G138859.D	07/01/24	02:33	5.23	5.72	12.43	14.18
JD91204-3	5G138860.D	07/01/24	02:54	5.23	5.72	12.44	14.18
JD91204-4	5G138861.D	07/01/24	03:15	5.23	5.72	12.47	14.16
JD91204-5	5G138862.D	07/01/24	03:36	5.23	5.72	12.47	14.16
JD91204-6	5G138863.D	07/01/24	03:58	5.23	5.72	12.45	14.18
JD91204-7	5G138864.D	07/01/24	04:19	5.23	5.72	12.46	14.18
JD91204-8	5G138865.D	07/01/24	04:40	5.23	5.72	12.43	14.18
JD91204-10	5G138867.D	07/01/24	05:22	5.23	5.72	12.47	14.16
JD91204-11	5G138868.D	07/01/24	05:43	5.23	5.72	12.47	14.18
JD91204-12	5G138869.D	07/01/24	06:04	5.24	5.72	12.47	14.18
JD91204-13	5G138870.D	07/01/24	06:25	5.23	5.72	12.45	14.18
JD91204-15	5G138872.D	07/01/24	07:07	5.23	5.72	12.43	14.18
JD91204-16	5G138873.D	07/01/24	07:28	5.23	5.72	12.47	14.16
JD91204-17	5G138874.D	07/01/24	07:49	5.24	5.72	12.43	14.18

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3661-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138887.D	**Injection Time:**	00:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	5.24	5.72	12.43	14.18

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP55814-MB1	5G138889.D	07/02/24	01:16	5.24	5.73	12.43	14.18
OP55814-BS1	5G138890.D	07/02/24	01:37	5.24	5.72	12.43	14.18
OP55814-LB46	5G138891.D	07/02/24	01:58	5.24	5.73	12.43	14.18
OP55814-MS	5G138892.D	07/02/24	02:19	5.24	5.72	12.43	14.18
OP55814-LS46	5G138892.D	07/02/24	02:19	5.24	5.72	12.43	14.18
OP55814-MSD	5G138893.D	07/02/24	02:39	5.24	5.72	12.43	14.18
ZZZZZZ	5G138894.D	07/02/24	03:00	5.24	5.72	12.43	14.18
JD91275-3	5G138895.D	07/02/24	03:21	5.24	5.72	12.43	14.18
ZZZZZZ	5G138896.D	07/02/24	03:42	5.24	5.73	12.43	14.18
ZZZZZZ	5G138897.D	07/02/24	04:03	5.24	5.72	12.43	14.18
ZZZZZZ	5G138898.D	07/02/24	04:24	5.24	5.72	12.43	14.18
ZZZZZZ	5G138899.D	07/02/24	04:45	5.24	5.72	12.43	14.18
ZZZZZZ	5G138900.D	07/02/24	05:06	5.24	5.72	12.43	14.18
ZZZZZZ	5G138901.D	07/02/24	05:27	5.24	5.72	12.43	14.18
ZZZZZZ	5G138902.D	07/02/24	05:47	5.24	5.73	12.43	14.18
ZZZZZZ	5G138903.D	07/02/24	06:09	5.24	5.72	12.43	14.18
ZZZZZZ	5G138905.D	07/02/24	06:50	5.24	5.72	12.43	14.18
ZZZZZZ	5G138906.D	07/02/24	07:11	5.24	5.73	12.43	14.18
ZZZZZZ	5G138907.D	07/02/24	07:32	5.24	5.73	12.43	14.18
ZZZZZZ	5G138908.D	07/02/24	07:53	5.25	5.73	12.44	14.18
JD91204-5	5G138909.D	07/02/24	08:14	5.24	5.73	12.47	14.17
JD91204-7	5G138910.D	07/02/24	08:35	5.24	5.73	12.46	14.18
JD91204-10	5G138911.D	07/02/24	08:56	5.24	5.73	12.47	14.18
OP55761-MS	5G138912.D	07/02/24	09:17	5.24	5.73	12.47	14.16
OP55761-MSD	5G138913.D	07/02/24	09:38	5.24	5.73	12.47	14.18
JD91204-1	5G138914.D	07/02/24	09:59	5.24	5.73	12.47	14.18
JD91204-9	5G138915.D	07/02/24	10:20	5.24	5.73	12.47	14.16
JD91204-14	5G138916.D	07/02/24	10:41	5.24	5.73	12.47	14.17

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRL399-CC343	**Injection Date:**	06/30/24
Lab File ID:	RL17970.D	**Injection Time:**	23:22
Instrument ID:	GCRL	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.92	4.32	9.81	10.72

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP55762-MB1	RL17972.D	07/01/24	02:04	3.92	4.32	9.83	10.74
OP55762-BS1	RL17973.D	07/01/24	02:21	3.92	4.32	9.81	10.72
OP55762-MS	RL17974.D	07/01/24	02:37	3.92	4.32	9.81	10.71
OP55762-MSD	RL17975.D	07/01/24	02:54	3.92	4.32	9.81	10.71
JD91204-1	RL17976.D	07/01/24	03:11	3.91	4.32	9.80	10.71
JD91204-2	RL17977.D	07/01/24	03:28	3.91	4.32	9.80	10.71
JD91204-3	RL17978.D	07/01/24	03:44	3.92	4.32	9.80	10.71
JD91204-4	RL17979.D	07/01/24	04:01	3.91	4.32	9.80	10.71
JD91204-5	RL17980.D	07/01/24	04:18	3.91	4.32	9.80	10.71
JD91204-6	RL17981.D	07/01/24	04:35	3.91	4.32	9.80	10.71
JD91204-7	RL17982.D	07/01/24	04:51	3.91	4.32	9.80	10.71
JD91204-8	RL17983.D	07/01/24	05:08	3.91	4.32	9.80	10.71
JD91204-9	RL17984.D	07/01/24	05:25	3.91	4.32	9.80	10.71
JD91204-10	RL17985.D	07/01/24	05:42	3.91	4.32	9.80	10.71
JD91204-11	RL17986.D	07/01/24	05:59	3.91	4.32	9.81	10.71
JD91204-12	RL17987.D	07/01/24	06:15	3.92	4.32	9.80	10.71
JD91204-13	RL17988.D	07/01/24	06:32	3.91	4.32	9.80	10.71

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRL399-CC343	**Injection Date:**	07/01/24
Lab File ID:	RL17991.D	**Injection Time:**	07:22
Instrument ID:	GCRL	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.92	4.32	9.81	10.72

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
JD91204-14	RL17993.D	07/01/24	07:56	3.91	4.32	9.81	10.72
JD91204-15	RL17994.D	07/01/24	08:13	3.92	4.32	9.81	10.72
JD91204-16	RL17995.D	07/01/24	08:30	3.92	4.32	9.81	10.72
JD91204-17	RL17996.D	07/01/24	08:46	3.92	4.32	9.81	10.72

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GXX8562-CC8517	**Injection Date:**	06/29/24
Lab File ID:	XX2513571.D	**Injection Time:**	12:36
Instrument ID:	GCXX	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.35	4.21	10.66	12.73

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP55745-MB1	XX2513573.D	06/29/24	13:10	3.35	4.21	10.66	12.74
OP55745-BS1	XX2513574.D	06/29/24	13:27	3.35	4.21	10.66	12.74
OP55745-BSD	XX2513575.D	06/29/24	13:44	3.35	4.21	10.66	12.74
JD91204-18	XX2513576.D	06/29/24	14:01	3.35	4.21	10.66	12.74
JD91204-19	XX2513577.D	06/29/24	14:18	3.35	4.21	10.66	12.74
ZZZZZZ	XX2513578.D	06/29/24	14:35	3.35	4.21	10.66	12.73

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G6859-ICC6859
Lab FileID: 1G192517.D

Response Factor Report GC1G

Method : C:\msdchem\1\methods\1PST6859.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Mon Jan 29 09:45:50 2024
Response via : Initial Calibration

Calibration Files
2 =1g192514.d 5 =1g192515.d 10 =1g192516.d 25 =1g192517.d
50 =1g192518.d 100 =1g192520.d 1 =1g192513.d 75 =1g192519.d

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	1.042	0.909	0.906	0.918	0.929	0.937	1.084	0.935	0.958	7.01
3) Hexachlorobe	1.087	1.023	1.036	1.052	1.043	1.042	1.167	1.049	1.062	4.35
4) alpha-BHC	1.179	1.185	1.229	1.358	1.430	1.514	1.328	1.500	1.340	10.04
5) gamma-BHC	1.119	1.088	1.122	1.226	1.277	1.339	1.176	1.322	1.209	8.04
6) Heptachlor	1.245	1.246	1.251	1.328	1.345	1.391	1.266	1.408	1.310	5.11
7) beta-BHC	0.576	0.535	0.532	0.551	0.557	0.575	0.572	0.580	0.560	3.38
8) delta-BHC	0.880	0.836	0.980	1.102	1.170	1.270	0.889	1.261	1.048	16.74
9) Aldrin	1.144	1.105	1.107	1.196	1.231	1.284	1.151	1.279	1.187	6.05
10) Alachlor		0.156	0.150	0.153	0.149	0.149		0.155	0.152	1.95
11) Heptachlor E	1.172	1.108	1.113	1.162	1.172	1.199	1.124	1.195	1.156	3.12
12) gamma-Chlord	1.147	1.097	1.094	1.161	1.181	1.230	1.165	1.217	1.161	4.28
13) alpha-Chlord	1.136	1.098	1.087	1.147	1.156	1.193	1.233	1.186	1.155	4.24
14) Endosulfan I	1.129	1.079	1.092	1.137	1.146	1.179	1.112	1.181	1.132	3.30
15) 4,4'-DDE	0.860	0.840	0.858	0.944	1.005	1.062	0.904	1.045	0.940	9.40
16) Dieldrin	1.114	1.055	1.063	1.133	1.172	1.224	1.071	1.215	1.131	5.95
17) Endrin	1.037	1.007	1.006	1.069	1.101	1.156	1.118	1.144	1.080	5.50
18) 4,4'-DDD	0.794	0.742	0.761	0.819	0.857	0.938	0.758	0.927	0.824	9.24
19) Endosulfan I	1.038	0.947	0.960	0.999	1.016	1.067	1.048	1.060	1.017	4.44
20) 4,4'-DDT	0.657	0.692	0.720	0.801	0.852	0.934	0.644	0.908	0.776	14.65
21) Endrin Aldeh	0.677	0.747	0.727	0.746	0.745	0.734	0.744	0.737	0.732	3.17
22) Endosulfan S	0.973	0.898	0.887	0.920	0.930	0.949	1.046	0.951	0.944	5.30
23) Methoxychlor	0.498	0.482	0.487	0.508	0.510	0.519	0.496	0.522	0.503	2.89
24) Mirex	0.968	0.904	0.882	0.874	0.846	0.830	0.941	0.846	0.886	5.51
25) Endrin Keton	1.045	1.024	1.016	1.075	1.096	1.115	1.030	1.114	1.064	3.84
26) Decachlorobi	1.010	0.985	0.952	0.955	0.932	0.924	1.117	0.929	0.976	6.59
27) I 1-bromo-2-nitrobenzen	ISTD									
28) Toxaphene{A}				0.006					0.006	0.00
29) Toxaphene{B}				0.009					0.009	0.00
30) Toxaphene{C}				0.017					0.017	0.00
31) Toxaphene{D}				0.018					0.018	0.00
32) Toxaphene{E}				0.023					0.023	0.00
33) I 1-bromo-2-nitrobenzen	ISTD									
34) Chlordane {A				0.067					0.067	0.00
35) Chlordane {B				0.040					0.040	0.00
36) Chlordane {C				0.130					0.130	0.00
37) Chlordane {D				0.206					0.206	0.00
38) Chlordane {E				0.030					0.030	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.873	0.572	0.572	0.590	0.580	0.616	0.614	0.591	0.626	16.17

Initial Calibration Summary

Job Number: JD91204 **Sample:** G1G6859-ICC6859
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1G192517.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

3)	Hexachlorobe	1.386	1.402	1.378	1.394	1.377	1.366	1.349	1.367	1.377	1.23
4)	alpha-BHC	1.328	1.282	1.318	1.444	1.512	1.602	1.363	1.564	1.427	8.54
5)	gamma-BHC	1.261	1.186	1.215	1.301	1.353	1.414	1.367	1.384	1.310	6.33
6)	Heptachlor	1.329	1.289	1.322	1.396	1.444	1.494	1.293	1.470	1.380	5.96
7)	beta-BHC	0.502	0.447	0.461	0.490	0.492	0.506	0.592	0.502	0.499	8.61
8)	delta-BHC	1.163	1.091	1.121	1.216	1.286	1.356	1.212	1.314	1.220	7.69
9)	Aldrin	1.231	1.184	1.231	1.306	1.341	1.402	1.145	1.374	1.277	7.27
10)	Alachlor		0.137	0.126	0.124	0.122	0.121		0.121	0.125	5.01
11)	Heptachlor E	1.220	1.139	1.150	1.184	1.211	1.255	1.168	1.233	1.195	3.44
12)	gamma-Chlord	1.208	1.156	1.183	1.216	1.236	1.294	1.154	1.268	1.215	4.15
13)	alpha-Chlord	1.195	1.127	1.135	1.170	1.186	1.232	1.190	1.212	1.181	3.04
14)	Endosulfan I	1.225	1.122	1.120	1.144	1.162	1.202	1.118	1.186	1.160	3.52
15)	4,4'-DDE	1.146	1.039	1.061	1.118	1.143	1.198	1.032	1.170	1.113	5.59
16)	Dieldrin	1.267	1.157	1.186	1.226	1.257	1.313	1.134	1.290	1.229	5.24
17)	Endrin	1.156	1.086	1.090	1.131	1.157	1.220	1.134	1.205	1.147	4.21
18)	4,4'-DDD	0.814	0.787	0.818	0.850	0.866	0.912	0.801	0.903	0.844	5.54
19)	Endosulfan I	1.090	1.002	1.045	1.066	1.075	1.117	0.977	1.125	1.062	4.91
20)	4,4'-DDT	0.614	0.632	0.684	0.749	0.795	0.864	0.589	0.842	0.721	14.77
21)	Endrin Aldeh	0.812	0.769	0.717	0.728	0.730	0.754	0.821	0.753	0.761	5.07
22)	Endosulfan S	0.974	0.870	0.882	0.896	0.908	0.950	0.856	0.940	0.909	4.59
23)	Methoxychlor	0.425	0.425	0.412	0.430	0.435	0.459	0.440	0.450	0.435	3.43
24)	Mirex	0.862	0.772	0.740	0.717	0.692	0.699	0.882	0.699	0.758	9.94
25)	Endrin Keton	1.106	1.028	1.043	1.060	1.056	1.105	0.875	1.109	1.048	7.31
26)	Decachlorobi	1.352	1.020	1.031	1.009	1.012	0.995	1.087	1.012	1.065	11.22

27)	I 1-bromo-2-nitrobenzen ----------ISTD----------			
28)	Toxaphene{A}	0.006	0.006	0.00
29)	Toxaphene{B}	0.027	0.027	0.00
30)	Toxaphene{C}	0.012	0.012	0.00
31)	Toxaphene{D}	0.022	0.022	0.00
32)	Toxaphene{E}	0.019	0.019	0.00

33)	I 1-bromo-2-nitrobenzen ----------ISTD----------			
34)	Chlordane {A	0.068	0.068	0.00
35)	Chlordane {B	0.036	0.036	0.00
36)	Chlordane {C	0.135	0.135	0.00
37)	Chlordane {D	0.214	0.214	0.00
38)	Chlordane {E	0.031	0.031	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

1PST6859.M Mon Jan 29 09:55:34 2024

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G6859-ICV6859
Lab FileID: 1G192523.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\1G6859\1g192523.d\ECD1A.CH Vial: 14
Signal #2 : C:\msdchem\1\data\1G6859\1g192523.d\ECD2B.CH
Acq On : 29 Jan 2024 8:45 am Operator: rebeccak
Sample : icv6859-25 (Pest Mix) Inst : GC1G
Misc : op51957,g1g6859,250,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\methods\1PST6859.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Mon Jan 29 09:45:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.27- 1.33
2	SAB	Tetrachloro-m-xylene	0.958	0.893	6.8	103	0.00	1.74- 1.80
3		Hexachlorobenzene	1.062	1.124	-5.8	113	0.00	2.02- 2.08
4	A	alpha-BHC	1.340	1.269	5.3	99	0.00	2.13- 2.19
5	MA	gamma-BHC	1.209	1.129	6.6	97	0.00	2.38- 2.44
6	MA	Heptachlor	1.310	1.248	4.7	99	0.00	2.79- 2.85
7	B	beta-BHC	0.560	0.528	5.7	101	0.00	2.45- 2.51
8	B	delta-BHC	1.048	1.045	0.3	100	0.00	2.61- 2.67
9	MB	Aldrin	1.187	1.122	5.5	99	0.00	3.08- 3.14
10		Alachlor	0.152	0.152	0.0	105	0.00	3.21- 3.27
11	B	Heptachlor Epoxide	1.156	1.084	6.2	98	0.00	3.73- 3.79
12	B	gamma-Chlordane	1.161	1.089	6.2	99	0.00	3.89- 3.95
13	B	alpha-Chlordane	1.155	1.066	7.7	98	0.00	4.04- 4.10
14	A	Endosulfan I	1.132	1.066	5.8	99	0.00	4.21- 4.27
15	B	4,4'-DDE	0.940	0.860	8.5	96	0.00	4.16- 4.22
16	MA	Dieldrin	1.131	1.058	6.5	98	0.00	4.52- 4.58
17	MA	Endrin	1.080	1.012	6.3	100	0.00	4.83- 4.89
18	A	4,4'-DDD	0.824	0.783	5.0	101	0.00	4.97- 5.04
19	B	Endosulfan II	1.017	0.948	6.8	100	0.00	5.15- 5.21
20	MA	4,4'-DDT	0.776	0.753	3.0	99	0.00	5.38- 5.44
21	B	Endrin Aldehyde	0.732	0.776	-6.0	110	0.00	5.78- 5.84
22	B	Endosulfan Sulfate	0.944	0.884	6.4	101	0.00	6.47- 6.53
23	A	Methoxychlor	0.503	0.461	8.3	96	0.00	6.18- 6.24
24		Mirex	0.886	0.962	-8.6	116	0.00	6.29- 6.35
25	B	Endrin Ketone	1.064	1.009	5.2	99	0.00	6.92- 6.98
26	SA	Decachlorobiphenyl	0.976	0.928	4.9	102	0.00	8.81- 8.87
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.20- 1.40
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.20- 1.40
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G6859-ICV6859
Lab FileID: 1G192523.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.23- 1.29
2	SAB	Tetrachloro-m-xylene	0.626	0.576	8.0	102	0.00	1.85- 1.91
3		Hexachlorobenzene	1.377	1.524	-10.7	115	0.00	2.24- 2.30
4	A	alpha-BHC	1.427	1.356	5.0	98	0.00	2.34- 2.40
5	MA	gamma-BHC	1.310	1.217	7.1	98	0.00	2.68- 2.74
6	MA	Heptachlor	1.380	1.334	3.3	100	0.00	3.15- 3.21
7	B	beta-BHC	0.499	0.466	6.6	100	0.00	2.76- 2.82
8	B	delta-BHC	1.220	1.123	8.0	97	0.00	3.07- 3.13
9	MB	Aldrin	1.277	1.238	3.1	99	0.00	3.52- 3.58
10		Alachlor	0.125	0.120	4.0	102	0.00	3.38- 3.44
11	B	Heptachlor Epoxide	1.195	1.123	6.0	99	0.00	4.24- 4.30
12	B	gamma-Chlordane	1.215	1.158	4.7	100	0.00	4.51- 4.57
13	B	alpha-Chlordane	1.181	1.103	6.6	99	0.00	4.71- 4.77
14	A	Endosulfan I	1.160	1.076	7.2	99	0.00	4.79- 4.85
15	B	4,4'-DDE	1.113	1.065	4.3	100	0.00	4.98- 5.04
16	MA	Dieldrin	1.229	1.171	4.7	100	0.00	5.20- 5.26
17	MA	Endrin	1.147	1.083	5.6	100	0.00	5.66- 5.72
18	A	4,4'-DDD	0.844	0.794	5.9	98	0.00	5.89- 5.95
19	B	Endosulfan II	1.062	1.022	3.8	101	0.00	6.01- 6.07
20	MA	4,4'-DDT	0.721	0.710	1.5	99	0.00	6.41- 6.47
21	B	Endrin Aldehyde	0.761	0.762	-0.1	110	0.00	6.57- 6.63
22	B	Endosulfan Sulfate	0.909	0.867	4.6	101	0.00	7.06- 7.12
23	A	Methoxychlor	0.435	0.409	6.0	100	0.00	7.65- 7.71
24		Mirex	0.758	0.803	-5.9	117	0.00	7.90- 7.96
25	B	Endrin Ketone	1.048	1.023	2.4	101	0.00	7.99- 8.05
26	SA	Decachlorobiphenyl	1.065	1.021	4.1	106	0.00	10.22-10.28
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.16- 1.36
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.16- 1.36
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					
36		Chlordane {C}	----------NA----------					
37		Chlordane {D}	----------NA----------					
38		Chlordane {E}	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g192517.d 1PST6859.M Mon Jan 29 09:53:13 2024

8.10.2

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G6859-ICV6859
Lab FileID: 1G192524.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\1G6859\1g192524.d\ECD1A.CH Vial: 15
Signal #2 : C:\msdchem\1\data\1G6859\1g192524.d\ECD2B.CH
Acq On : 29 Jan 2024 9:01 am Operator: rebeccak
Sample : icv6859-500 (Chlordane) Inst : GC1G
Misc : op51957,g1g6859,250,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\methods\1PST6859.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Mon Jan 29 09:45:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.27- 1.33
2	SAB	Tetrachloro-m-xylene	0.958	0.995	-3.9	114	0.00	1.74- 1.80
3		Hexachlorobenzene	----------NA----------					
4	A	alpha-BHC	----------NA----------					
5	MA	gamma-BHC	----------NA----------					
6	MA	Heptachlor	----------NA----------					
7	B	beta-BHC	----------NA----------					
8	B	delta-BHC	----------NA----------					
9	MB	Aldrin	----------NA----------					
10		Alachlor	----------NA----------					
11	B	Heptachlor Epoxide	----------NA----------					
12	B	gamma-Chlordane	----------NA----------					
13	B	alpha-Chlordane	----------NA----------					
14	A	Endosulfan I	----------NA----------					
15	B	4,4'-DDE	----------NA----------					
16	MA	Dieldrin	----------NA----------					
17	MA	Endrin	----------NA----------					
18	A	4,4'-DDD	----------NA----------					
19	B	Endosulfan II	----------NA----------					
20	MA	4,4'-DDT	----------NA----------					
21	B	Endrin Aldehyde	----------NA----------					
22	B	Endosulfan Sulfate	----------NA----------					
23	A	Methoxychlor	----------NA----------					
24		Mirex	----------NA----------					
25	B	Endrin Ketone	----------NA----------					
26	SA	Decachlorobiphenyl	0.976	0.944	3.3	108	0.00	8.80- 8.86
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.20- 1.40
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.20- 1.40
34		Chlordane {A}	0.067	0.068	-1.5	107	0.00	2.72- 2.92
35		Chlordane {B}	0.040	0.042	-5.0	109	0.00	3.15- 3.35
36		Chlordane {C}	0.130	0.137	-5.4	111	0.00	3.81- 4.01
37		Chlordane {D}	0.206	0.218	-5.8	112	0.00	3.96- 4.16
38		Chlordane {E}	0.030	0.030	0.0	108	0.00	4.99- 5.19

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G6859-ICV6859
Lab FileID: 1G192524.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.23- 1.29
2	SAB	Tetrachloro-m-xylene	0.626	0.657	-5.0	119	0.00	1.84- 1.90
3		Hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		Alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	1.065	1.066	-0.1	111	0.00	10.21-10.27
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.16- 1.36
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.16- 1.36
34		Chlordane {A}	0.068	0.069	-1.5	107	0.00	3.08- 3.28
35		Chlordane {B}	0.036	0.036	0.0	105	0.00	3.63- 3.83
36		Chlordane {C}	0.135	0.141	-4.4	110	0.00	4.44- 4.64
37		Chlordane {D}	0.214	0.225	-5.1	111	0.00	4.64- 4.84
38		Chlordane {E}	0.031	0.031	0.0	106	0.00	6.01- 6.21

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g192518.d 1PST6859.M Mon Jan 29 09:54:04 2024

8.10.3

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G6859-ICV6859
Lab FileID: 1G192525.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\1G6859\1g192525.d\ECD1A.CH Vial: 16
Signal #2 : C:\msdchem\1\data\1G6859\1g192525.d\ECD2B.CH
Acq On : 29 Jan 2024 9:17 am Operator: rebeccak
Sample : icv6859-500 (Toxaphene) Inst : GC1G
Misc : op51957,g1g6859,250,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\methods\1PST6859.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Mon Jan 29 09:45:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.27- 1.33
2	SAB	Tetrachloro-m-xylene	0.958	0.920	4.0	105	0.00	1.74- 1.80
3		Hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		Alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	0.976	0.922	5.5	105	0.00	8.80- 8.86
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.20- 1.40
28	L8	Toxaphene{A}	0.006	0.006	0.0	102	0.00	3.95- 4.15
29	L8	Toxaphene{B}	0.009	0.008	11.1	97	0.00	4.58- 4.78
30	L8	Toxaphene{C}	0.017	0.018	-5.9	106	0.00	5.25- 5.45
31	L8	Toxaphene{D}	0.018	0.019	-5.6	106	0.00	5.59- 5.79
32	L8	Toxaphene{E}	0.023	0.024	-4.3	104	0.00	6.24- 6.44
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.20- 1.40
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

8.10.4

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G6859-ICV6859
Lab FileID: 1G192525.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.23- 1.29
2	SAB	Tetrachloro-m-xylene	0.626	0.606	3.2	109	0.00	1.84- 1.90
3		Hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		Alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	1.065	1.006	5.5	104	0.00	10.21-10.27
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.16- 1.36
28	L8	Toxaphene{A}	0.006	0.006	0.0	96	0.00	5.28- 5.48
29	L8	Toxaphene{B}	0.027	0.027	0.0	98	0.00	6.08- 6.28
30	L8	Toxaphene{C}	0.012	0.012	0.0	99	0.00	6.39- 6.59
31	L8	Toxaphene{D}	0.022	0.022	0.0	100	0.00	6.52- 6.72
32	L8	Toxaphene{E}	0.019	0.020	-5.3	103	0.00	7.40- 7.60
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.16- 1.36
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g192518.d 1PST6859.M Mon Jan 29 09:54:16 2024

8.10.4

Continuing Calibration Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G7068-CC6859
Lab FileID: 1G197503.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\ky...8\1g197503.d\ECD1A.CH Vial: 4
Signal #2 : C:\msdchem\1\data\kyrae\1G7068\1g197503.d\ECD2B.CH
Acq On : 29-Jun-24, 07:38:29 Operator: tilakp
Sample : cc6859-50 Inst : GC1G
Misc : op53777,g1g7068,15.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...7068\1PST6859a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Mon Jul 01 03:42:05 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	114	0.00	1.03- 1.09
2	SAB	Tetrachloro-m-xylene	0.958	0.934	2.5	115	0.00	1.47- 1.53
3		Hexachlorobenzene	1.062	1.305	-22.9#	143	0.00	1.72- 1.78
4	A	alpha-BHC	1.340	1.305	2.6	104	0.00	1.82- 1.88
5	MA	gamma-BHC	1.209	1.122	7.2	100	0.00	2.05- 2.11
6	MA	Heptachlor	1.310	1.171	10.6	99	0.00	2.42- 2.48
7	B	beta-BHC	0.560	0.522	6.8	107	0.00	2.13- 2.19
8	B	delta-BHC	1.048	1.133	-8.1	111	0.00	2.27- 2.33
9	MB	Aldrin	1.187	1.065	10.3	99	0.00	2.69- 2.75
10		Alachlor	0.152	0.121	20.4#	92	0.00	2.81- 2.87
11	B	Heptachlor Epoxide	1.156	1.012	12.5	98	0.00	3.28- 3.34
12	B	gamma-Chlordane	1.161	0.998	14.0	96	0.00	3.43- 3.49
13	B	alpha-Chlordane	1.155	1.017	11.9	100	0.00	3.57- 3.63
14	A	Endosulfan I	1.132	1.092	3.5	109	0.00	3.72- 3.78
15	B	4,4'-DDE	0.940	0.932	0.9	106	-0.03	3.69- 3.75
16	MA	Dieldrin	1.131	1.070	5.4	104	0.00	4.01- 4.07
17	MA	Endrin	1.080	1.035	4.2	107	0.00	4.30- 4.36
18	A	4,4'-DDD	0.824	0.841	-2.1	112	0.00	4.45- 4.52
19	B	Endosulfan II	1.017	1.007	1.0	113	0.00	4.61- 4.67
20	MA	4,4'-DDT	0.776	0.810	-4.4	108	0.00	4.83- 4.89
21	B	Endrin Aldehyde	0.732	0.650	11.2	100	0.00	5.19- 5.25
22	B	Endosulfan Sulfate	0.944	0.846	10.4	104	0.00	5.84- 5.90
23	A	Methoxychlor	0.503	0.468	7.0	105	0.00	5.61- 5.67
24		Mirex	0.886	0.789	10.9	106	0.00	5.69- 5.75
25	B	Endrin Ketone	1.064	1.055	0.8	110	0.00	6.27- 6.33
26	SA	Decachlorobiphenyl	0.976	1.058	-8.4	130	0.00	8.14- 8.20
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	0.96- 1.16
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	113	0.00	0.96- 1.16
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Continuing Calibration Summary

Job Number: JD91204 **Sample:** G1G7068-CC6859
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1G197503.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	137	0.00	1.00- 1.06
2	SAB	Tetrachloro-m-xylene	0.626	0.617	1.4	146	0.00	1.58- 1.64
3		Hexachlorobenzene	1.377	1.351	1.9	134	0.00	1.94- 2.00
4	A	alpha-BHC	1.427	1.545	-8.3	140	0.00	2.03- 2.09
5	MA	gamma-BHC	1.310	1.364	-4.1	138	0.00	2.34- 2.40
6	MA	Heptachlor	1.380	1.505	-9.1	143	0.00	2.77- 2.83
7	B	beta-BHC	0.499	0.483	3.2	134	0.00	2.43- 2.49
8	B	delta-BHC	1.220	1.342	-10.0	143	0.00	2.71- 2.77
9	MB	Aldrin	1.277	1.375	-7.7	140	0.00	3.12- 3.18
10		Alachlor	0.125	0.113	9.6	127	0.00	2.99- 3.05
11	B	Heptachlor Epoxide	1.195	1.257	-5.2	142	0.00	3.79- 3.85
12	B	gamma-Chlordane	1.215	1.273	-4.8	141	0.00	4.04- 4.10
13	B	alpha-Chlordane	1.181	1.218	-3.1	141	0.00	4.23- 4.29
14	A	Endosulfan I	1.160	1.208	-4.1	142	0.00	4.30- 4.36
15	B	4,4'-DDE	1.113	1.196	-7.5	143	0.00	4.49- 4.55
16	MA	Dieldrin	1.229	1.330	-8.2	145	0.00	4.68- 4.74
17	MA	Endrin	1.147	1.253	-9.2	148	0.00	5.13- 5.19
18	A	4,4'-DDD	0.844	0.931	-10.3	147	0.00	5.36- 5.42
19	B	Endosulfan II	1.062	1.119	-5.4	142	0.00	5.47- 5.53
20	MA	4,4'-DDT	0.721	0.900	-24.8#	155#	0.00	5.86- 5.92
21	B	Endrin Aldehyde	0.761	0.762	-0.1	143	0.00	6.01- 6.07
22	B	Endosulfan Sulfate	0.909	1.002	-10.2	151#	0.00	6.47- 6.53
23	A	Methoxychlor	0.435	0.480	-10.3	151#	0.00	7.07- 7.13
24		Mirex	0.758	0.753	0.7	149	0.00	7.27- 7.33
25	B	Endrin Ketone	1.048	1.175	-12.1	152#	0.00	7.37- 7.43
26	SA	Decachlorobiphenyl	1.065	1.142	-7.2	154#	0.00	9.71- 9.77
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	131	0.00	0.93- 1.13
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	138	0.00	0.93- 1.13
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					
36		Chlordane {C}	----------NA----------					
37		Chlordane {D}	----------NA----------					
38		Chlordane {E}	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g197503.d 1PST6859a.M Mon Jul 01 03:51:39 2024

8.10.5

Continuing Calibration Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G7068-CC6859
Lab FileID: 1G197532.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\ky...8\1g197532.d\ECD1A.CH Vial: 2
Signal #2 : C:\msdchem\1\data\kyrae\1G7068\1g197532.d\ECD2B.CH
Acq On : 29-Jun-24, 15:41:20 Operator: tilakp
Sample : cc6859-25 Inst : GC1G
Misc : op55740,g1g7068,250,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...7068\1PST6859a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Mon Jul 01 03:52:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.04- 1.10
2	SAB	Tetrachloro-m-xylene	0.958	0.913	4.7	100	0.00	1.47- 1.53
3		Hexachlorobenzene	1.062	1.256	-18.3	120	0.01	1.73- 1.79
4	A	alpha-BHC	1.340	1.279	4.6	94	0.00	1.82- 1.88
5	MA	gamma-BHC	1.209	1.074	11.2	88	0.00	2.05- 2.11
6	MA	Heptachlor	1.310	1.178	10.1	89	0.00	2.42- 2.48
7	B	beta-BHC	0.560	0.522	6.8	95	0.02	2.14- 2.20
8	B	delta-BHC	1.048	1.020	2.7	93	0.02	2.29- 2.35
9	MB	Aldrin	1.187	1.052	11.4	88	0.00	2.69- 2.75
10		Alachlor	0.152	0.129	15.1	85	0.00	2.82- 2.88
11	B	Heptachlor Epoxide	1.156	1.039	10.1	90	0.00	3.28- 3.34
12	B	gamma-Chlordane	1.161	1.045	10.0	90	0.00	3.43- 3.49
13	B	alpha-Chlordane	1.155	1.045	9.5	91	0.00	3.58- 3.64
14	A	Endosulfan I	1.132	2.036	-79.9#	179#	0.00	3.72- 3.78
15	B	4,4'-DDE	0.940	2.036	-116.6#	216#	0.03	3.72- 3.78
16	MA	Dieldrin	1.131	1.058	6.5	93	0.00	4.01- 4.07
17	MA	Endrin	1.080	0.994	8.0	93	0.00	4.30- 4.36
18	A	4,4'-DDD	0.824	0.731	11.3	89	0.03	4.48- 4.55
19	B	Endosulfan II	1.017	1.007	1.0	101	0.00	4.61- 4.67
20	MA	4,4'-DDT	0.776	0.669	13.8	84	0.01	4.85- 4.91
21	B	Endrin Aldehyde	0.732	0.675	7.8	91	0.00	5.20- 5.26
22	B	Endosulfan Sulfate	0.944	0.901	4.6	98	0.00	5.85- 5.91
23	A	Methoxychlor	0.503	0.275	45.3#	54	0.02	5.64- 5.70
24		Mirex	0.886	1.033	-16.6	118	0.00	5.68- 5.74
25	B	Endrin Ketone	1.064	1.073	-0.8	100	0.00	6.28- 6.34
26	SA	Decachlorobiphenyl	0.976	1.106	-13.3	116	0.00	8.15- 8.21
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	0.97- 1.17
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	0.97- 1.17
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Continuing Calibration Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G7068-CC6859
Lab FileID: 1G197532.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	115	0.00	1.01- 1.07
2	SAB	Tetrachloro-m-xylene	0.626	0.622	0.6	122	0.00	1.58- 1.64
3		Hexachlorobenzene	1.377	1.401	-1.7	116	0.00	1.94- 2.00
4	A	alpha-BHC	1.427	1.492	-4.6	119	0.00	2.03- 2.09
5	MA	gamma-BHC	1.310	1.324	-1.1	117	0.00	2.34- 2.40
6	MA	Heptachlor	1.380	1.576	-14.2	130	0.00	2.77- 2.83
7	B	beta-BHC	0.499	0.498	0.2	117	0.00	2.43- 2.49
8	B	delta-BHC	1.220	1.117	8.4	106	0.00	2.72- 2.78
9	MB	Aldrin	1.277	1.336	-4.6	118	0.00	3.11- 3.17
10		Alachlor	0.125	0.122	2.4	114	0.00	2.99- 3.05
11	B	Heptachlor Epoxide	1.195	1.237	-3.5	121	0.00	3.79- 3.85
12	B	gamma-Chlordane	1.215	1.267	-4.3	120	0.00	4.04- 4.10
13	B	alpha-Chlordane	1.181	1.213	-2.7	120	0.00	4.23- 4.29
14	A	Endosulfan I	1.160	1.221	-5.3	123	0.00	4.30- 4.36
15	B	4,4'-DDE	1.113	1.139	-2.3	118	0.00	4.50- 4.56
16	MA	Dieldrin	1.229	1.274	-3.7	120	0.00	4.68- 4.74
17	MA	Endrin	1.147	1.101	4.0	112	0.00	5.13- 5.19
18	A	4,4'-DDD	0.844	0.794	5.9	108	0.01	5.37- 5.43
19	B	Endosulfan II	1.062	1.138	-7.2	123	0.00	5.47- 5.53
20	MA	4,4'-DDT	0.721	0.788	-9.3	122	0.00	5.86- 5.92
21	B	Endrin Aldehyde	0.761	0.752	1.2	119	0.00	6.01- 6.07
22	B	Endosulfan Sulfate	0.909	0.989	-8.8	127	0.00	6.47- 6.53
23	A	Methoxychlor	0.435	0.471	-8.3	126	0.00	7.08- 7.14
24		Mirex	0.758	0.811	-7.0	131	0.00	7.27- 7.33
25	B	Endrin Ketone	1.048	1.192	-13.7	130	0.00	7.37- 7.43
26	SA	Decachlorobiphenyl	1.065	1.199	-12.6	137	0.00	9.70- 9.76
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	115	0.00	0.94- 1.14
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	115	0.00	0.94- 1.14
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g197399.d 1PST6859a.M Mon Jul 01 05:47:27 2024

8.10.6

Initial Calibration Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G5G3634-ICC3634
Lab FileID: 5G138220.D

Response Factor Report GC5G

Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 05 13:53:33 2024
Response via : Initial Calibration

Calibration Files
2 =5G138217.d 5 =5G138218.d 10 =5G138219.d 25 =5G138220.d
50 =5G138221.d 100 =5G138223.d 1 =5G138216.d 75 =5G138222.d

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.547	0.583	0.601	0.516	0.494	0.481	0.601	0.491	0.539	9.39
3) hexachlorobe	2.042	1.827	1.801	1.844	1.889	1.896	2.247	1.881	1.928	7.66
4) alpha-BHC	1.842	1.734	1.753	1.900	1.976	2.020	1.966	1.987	1.897	5.79
5) gamma-BHC	1.498	1.523	1.609	1.715	1.775	1.807	1.467	1.798	1.649	8.60
6) Heptachlor	1.917	1.655	1.638	1.722	1.751	1.735	1.984	1.751	1.769	6.84
7) beta-BHC	0.651	0.623	0.588	0.597	0.573	0.579	0.619	0.581	0.601	4.52
8) delta-BHC	1.863	1.707	1.730	1.914	1.959	2.014	2.161	2.023	1.921	7.96
9) Aldrin	1.777	1.647	1.674	1.741	1.795	1.774	1.766	1.779	1.744	3.11
10) alachlor		0.154	0.147	0.147	0.132	0.122		0.127	0.138	9.28
11) Heptachlor E	1.599	1.522	1.446	1.547	1.548	1.507	1.724	1.735	1.579	6.50
12) gamma-Chlord	1.748	1.563	1.573	1.631	1.710	1.708	1.811	1.763	1.688	5.36
13) alpha-Chlord	1.617	1.484	1.525	1.588	1.645	1.636	1.597	1.674	1.596	3.98
14) Endosulfan I	1.565	1.560	1.579	1.592	1.569	1.503	1.581	1.756	1.588	4.60
15) 4,4'-DDE	1.461	1.359	1.383	1.426	1.448	1.433	1.490	1.447	1.431	2.95
16) Dieldrin	1.817	1.609	1.627	1.645	1.646	1.604	1.872	1.634	1.682	6.11
17) Endrin	1.583	1.408	1.452	1.427	1.434	1.405	1.654	1.456	1.477	6.15
18) 4,4'-DDD	1.384	1.162	1.148	1.143	1.157	1.173	1.588	1.182	1.242	12.93
19) Endosulfan I	1.606	1.346	1.357	1.351	1.333	1.346	1.644	1.348	1.416	9.14
20) 4,4'-DDT	1.107	1.029	1.087	1.125	1.177	1.224	1.167	1.181	1.137	5.49
21) Endrin Aldeh	1.333	1.007	0.990	0.952	0.934	0.906	1.380	0.920	1.053	18.14
22) Endosulfan S	1.514	1.295	1.298	1.292	1.302	1.275	1.687	1.286	1.369	11.00
23) Methoxychlor	0.600	0.608	0.580	0.537	0.528	0.506	0.699	0.521	0.572	11.12
24) Mirex	1.249	0.960	0.912	0.875	0.878	0.856	1.270	0.874	0.984	17.58
25) Endrin Keton	1.791	1.509	1.470	1.427	1.392	1.345	1.862	1.374	1.521	12.90
26) Decachlorobi	1.546	1.357	1.329	1.362	1.337	1.320	2.006	1.325	1.448	16.39
27) I 1-bromo-2-nitrobenzen	ISTD									
28) Toxaphene{A}				0.008					0.008	0.00
29) Toxaphene{B}				0.012					0.012	0.00
30) Toxaphene{C}				0.009					0.009	0.00
31) Toxaphene{D}				0.032					0.032	0.00
32) Toxaphene{E}				0.030					0.030	0.00
33) I 1-bromo-2-nitrobenzen	ISTD									
34) Chlordane {A				0.078					0.078	0.00
35) Chlordane {B				0.042					0.042	0.00
36) Chlordane {C				0.186					0.186	0.00
37) Chlordane {D				0.289					0.289	0.00
38) Chlordane {E				0.041					0.041	0.00

Signal #2

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	1.533	1.376	1.289	1.266	1.213	1.155	1.653	1.187	1.334	13.24

8.10.7

8

Initial Calibration Summary

Job Number: JD91204 **Sample:** G5G3634-ICC3634
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5G138220.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

3)	hexachlorobe	2.114	1.928	1.841	1.809	1.736	1.656	2.240	1.704	1.879	10.94
4)	alpha-BHC	2.295	2.181	2.115	2.151	2.093	2.014	2.447	2.048	2.168	6.54
5)	gamma-BHC	2.051	1.991	1.915	1.910	1.854	1.792	2.186	1.832	1.941	6.68
6)	Heptachlor	1.321	1.160	1.180	1.264	1.174	1.094	1.273	1.130	1.199	6.52
7)	beta-BHC	1.008	0.869	0.820	0.798	0.738	0.714	1.213	0.731	0.861	19.85
8)	delta-BHC	1.954	1.924	1.867	1.903	1.813	1.755	2.191	1.803	1.901	7.09
9)	Aldrin	1.922	1.852	1.803	1.804	1.714	1.609	2.009	1.659	1.797	7.43
10)	alachlor		0.223	0.202	0.191	0.169	0.157		0.163	0.184	13.82
11)	Heptachlor E	1.859	1.702	1.633	1.600	1.489	1.386	2.019	1.443	1.641	13.08
12)	gamma-Chlord	1.867	1.748	1.679	1.696	1.636	1.560	2.049	1.601	1.730	9.24
13)	alpha-Chlord	1.840	1.722	1.638	1.633	1.573	1.499	2.004	1.555	1.683	9.94
14)	Endosulfan I	1.537	1.403	1.286	1.459	1.344	1.233	1.586	1.275	1.391	9.25
15)	4,4'-DDE	1.670	1.533	1.491	1.491	1.458	1.401	1.796	1.416	1.532	8.84
16)	Dieldrin	1.773	1.649	1.591	1.581	1.503	1.410	1.896	1.457	1.608	10.14
17)	Endrin	1.321	1.160	1.171	1.116	1.088	1.046	1.440	1.092	1.179	11.40
18)	4,4'-DDD	1.101	0.990	0.945	0.918	0.867	0.839	1.292	0.855	0.976	15.75
19)	Endosulfan I	1.564	1.437	1.383	1.367	1.284	1.198	1.691	1.243	1.396	11.91
20)	4,4'-DDT	1.062	0.994	0.985	0.981	0.967	0.958	1.268	0.958	1.022	10.27
21)	Endrin Aldeh	1.148	1.060	1.000	0.969	0.904	0.844	1.390	0.856	1.021	17.72
22)	Endosulfan S	1.584	1.403	1.357	1.328	1.234	1.150	1.842	1.189	1.386	16.59
23)	Methoxychlor	0.524	0.428	0.416	0.396	0.362	0.341	0.532	0.343	0.418	17.96
24)	Mirex	1.064	0.990	0.944	0.923	0.910	0.866	1.258	0.873	0.979	13.30
25)	Endrin Keton	1.582	1.479	1.413	1.377	1.299	1.211	1.743	1.225	1.416	12.86
26)	Decachlorobi	1.101	0.982	0.944	0.940	0.932	0.902	1.249	0.904	0.994	12.17

27)	I 1-bromo-2-nitrobenzen	----------ISTD----------		
28)	Toxaphene{A}	0.005	0.005	0.00
29)	Toxaphene{B}	0.007	0.007	0.00
30)	Toxaphene{C}	0.008	0.008	0.00
31)	Toxaphene{D}	0.021	0.021	0.00
32)	Toxaphene{E}	0.033	0.033	0.00

33)	I 1-bromo-2-nitrobenzen	----------ISTD----------		
34)	Chlordane {A	0.054	0.054	0.00
35)	Chlordane {B	0.043	0.043	0.00
36)	Chlordane {C	0.164	0.164	0.00
37)	Chlordane {D	0.268	0.268	0.00
38)	Chlordane {E	0.036	0.036	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

5pstlvi3634a.M Wed Jun 05 13:57:46 2024

8.10.7

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G5G3634-ICV3634
Lab FileID: 5G138224.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\g5...4\5G138224.d\ECD1A.ch Vial: 21
Signal #2 : C:\msdchem\1\data\g5g3634\5G138224.d\ECD2B.ch
Acq On : 5 Jun 2024 12:41 pm Operator: rebeccak
Sample : icv3634-2.5 (pest mix) Inst : GC5G
Misc : op55026,G5G3634,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 05 13:31:00 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	128	0.00	4.12- 5.12
2	SAB	Tetrachloro-m-xylene	0.539	0.462	14.3	115	0.00	5.22- 5.28
3		hexachlorobenzene	1.928	1.677	13.0	117	0.00	5.55- 5.61
4	A	alpha-BHC	1.897	1.648	13.1	111	0.00	5.70- 5.76
5	MA	gamma-BHC	1.649	1.474	10.6	110	0.00	5.99- 6.05
6	MA	Heptachlor	1.769	1.542	12.8	115	0.00	6.46- 6.52
7	B	beta-BHC	0.601	0.516	14.1	111	0.00	6.07- 6.13
8	B	delta-BHC	1.921	1.611	16.1	108	0.00	6.24- 6.30
9	MB	Aldrin	1.744	1.570	10.0	116	0.00	6.78- 6.84
10		alachlor	0.138	0.122	11.6	106	0.00	6.95- 7.01
11	B	Heptachlor Epoxide	1.579	1.387	12.2	115	0.00	7.48- 7.54
12	B	gamma-Chlordane	1.688	1.434	15.0	113	0.00	7.64- 7.70
13	B	alpha-Chlordane	1.596	1.344	15.8	108	0.00	7.80- 7.86
14	A	Endosulfan I	1.588	1.368	13.9	110	0.00	7.97- 8.03
15	B	4,4'-DDE	1.431	1.243	13.1	112	0.00	7.92- 7.98
16	MA	Dieldrin	1.682	1.461	13.1	114	0.00	8.29- 8.35
17	MA	Endrin	1.477	1.308	11.4	117	0.00	8.60- 8.66
18	A	4,4'-DDD	1.242	1.036	16.6	116	0.00	8.74- 8.80
19	B	Endosulfan II	1.416	1.210	14.5	115	0.00	8.92- 8.98
20	MA	4,4'-DDT	1.137	1.020	10.3	116	0.00	9.14- 9.20
21	B	Endrin Aldehyde	1.053	0.980	6.9	132	0.00	9.54- 9.60
22	B	Endosulfan Sulfate	1.369	1.125	17.8	112	0.00	10.21-10.27
23	A	Methoxychlor	0.572	0.496	13.3	118	0.00	9.92- 9.98
24		Mirex	0.984	0.825	16.2	121	0.00	10.03-10.09
25	B	Endrin Ketone	1.521	1.234	18.9	111	0.00	10.64-10.70
26	SA	Decachlorobiphenyl	1.448	1.211	16.4	114	0.00	12.43-12.49
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	128	0.00	4.12- 5.12
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	128	0.00	4.12- 5.12
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G5G3634-ICV3634
Lab FileID: 5G138224.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	128	0.00	4.42- 5.42
2	SAB	Tetrachloro-m-xylene	1.334	1.173	12.1	119	0.00	5.71- 5.77
3		hexachlorobenzene	1.879	1.653	12.0	117	0.00	6.20- 6.26
4	A	alpha-BHC	2.168	1.922	11.3	115	0.00	6.35- 6.41
5	MA	gamma-BHC	1.941	1.668	14.1	112	0.00	6.76- 6.82
6	MA	Heptachlor	1.199	1.127	6.0	114	0.00	7.31- 7.37
7	B	beta-BHC	0.861	0.695	19.3	112	0.00	6.85- 6.91
8	B	delta-BHC	1.901	1.608	15.4	108	0.00	7.23- 7.29
9	MB	Aldrin	1.797	1.590	11.5	113	0.00	7.74- 7.80
10		alachlor	0.184	0.179	2.7	120	0.00	7.58- 7.64
11	B	Heptachlor Epoxide	1.641	1.428	13.0	114	0.00	8.54- 8.60
12	B	gamma-Chlordane	1.730	1.489	13.9	112	0.00	8.81- 8.87
13	B	alpha-Chlordane	1.683	1.385	17.7	109	0.00	9.03- 9.09
14	A	Endosulfan I	1.391	1.219	12.4	107	0.00	9.12- 9.18
15	B	4,4'-DDE	1.532	1.335	12.9	115	0.00	9.30- 9.36
16	MA	Dieldrin	1.608	1.411	12.3	114	0.00	9.54- 9.60
17	MA	Endrin	1.179	1.114	5.5	128	0.00	10.03-10.09
18	A	4,4'-DDD	0.976	0.878	10.0	123	0.00	10.23-10.29
19	B	Endosulfan II	1.396	1.231	11.8	115	0.00	10.38-10.44
20	MA	4,4'-DDT	1.022	0.899	12.0	117	0.00	10.75-10.81
21	B	Endrin Aldehyde	1.021	0.917	10.2	121	0.00	10.94-11.00
22	B	Endosulfan Sulfate	1.386	1.140	17.7	110	0.00	11.40-11.46
23	A	Methoxychlor	0.418	0.403	3.6	130	0.00	11.98-12.04
24		Mirex	0.979	0.886	9.5	123	0.00	12.26-12.32
25	B	Endrin Ketone	1.416	1.203	15.0	112	0.00	12.34-12.40
26	SA	Decachlorobiphenyl	0.994	0.860	13.5	117	0.00	14.17-14.23
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	128	0.00	4.42- 5.42
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	128	0.00	4.42- 5.42
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					
36		Chlordane {C}	----------NA----------					
37		Chlordane {D}	----------NA----------					
38		Chlordane {E}	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5G138220.d 5pstlvi3634a.M Wed Jun 05 13:35:51 2024

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G5G3634-ICV3634
Lab FileID: 5G138225.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\g5...4\5G138225.d\ECD1A.ch Vial: 22
Signal #2 : C:\msdchem\1\data\g5g3634\5G138225.d\ECD2B.ch
Acq On : 5 Jun 2024 1:02 pm Operator: rebeccak
Sample : icv3634-50 (chlordane) Inst : GC5G
Misc : op55026,G5G3634,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 05 13:39:48 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	87	0.00	4.12- 5.12
2	SAB	Tetrachloro-m-xylene	0.539	0.473	12.2	83	0.00	5.22- 5.28
3		hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	1.448	1.253	13.5	81	0.00	12.42-12.48
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	87	0.00	4.12- 5.12
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.00	4.12- 5.12
34		Chlordane {A}	0.078	0.081	-3.8	96	0.00	6.39- 6.59
35		Chlordane {B}	0.042	0.045	-7.1	99	0.00	6.86- 7.06
36		Chlordane {C}	0.186	0.185	0.5	93	0.00	7.57- 7.77
37		Chlordane {D}	0.289	0.290	-0.3	93	0.00	7.72- 7.92
38		Chlordane {E}	0.041	0.043	-4.9	98	0.00	8.75- 8.95

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G5G3634-ICV3634
Lab FileID: 5G138225.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	89	0.00	4.42- 5.42
2	SAB	Tetrachloro-m-xylene	1.334	1.153	13.6	84	0.00	5.71- 5.77
3		hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	0.994	0.882	11.3	84	0.00	14.17-14.23
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	89	0.00	4.42- 5.42
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.00	4.42- 5.42
34		Chlordane {A}	0.054	0.067	-24.1#	114	0.00	7.24- 7.44
35		Chlordane {B}	0.043	0.049	-14.0	107	0.00	7.87- 8.07
36		Chlordane {C}	0.164	0.171	-4.3	97	0.00	8.75- 8.95
37		Chlordane {D}	0.268	0.285	-6.3	99	0.00	8.96- 9.16
38		Chlordane {E}	0.036	0.042	-16.7	108	0.00	10.38-10.58

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5G138214.d 5pstlvi3634a.M Wed Jun 05 13:41:15 2024

Initial Calibration Verification

Job Number: JD91204 **Sample:** G5G3634-ICV3634
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5G138226.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\g5...4\5G138226.d\ECD1A.ch Vial: 23
Signal #2 : C:\msdchem\1\data\g5g3634\5G138226.d\ECD2B.ch
Acq On : 5 Jun 2024 1:22 pm Operator: rebeccak
Sample : icv3634-50 (toxaphene) Inst : GC5G
Misc : op55026,G5G3634,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 05 13:53:33 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	83	0.00	4.12- 5.12
2	SAB	Tetrachloro-m-xylene	0.539	0.510	5.4	86	0.00	5.22- 5.28
3		hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	1.448	1.311	9.5	81	0.00	12.43-12.49
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	4.12- 5.12
28	L8	Toxaphene{A}	0.008	0.008	0.0	109	0.00	7.70- 7.90
29	L8	Toxaphene{B}	0.012	0.012	0.0	99	0.00	8.35- 8.55
30	L8	Toxaphene{C}	0.009	0.011	-22.2#	119	0.00	9.34- 9.54
31	L8	Toxaphene{D}	0.032	0.019	40.6#	58	0.03	9.66- 9.86
32	L8	Toxaphene{E}	0.030	0.026	13.3	83	0.00	9.97-10.17
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	89	0.00	4.12- 5.12
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

8.10.10

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G5G3634-ICV3634
Lab FileID: 5G138226.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	87	0.00	4.42- 5.42
2	SAB	Tetrachloro-m-xylene	1.334	1.270	4.8	91	0.00	5.71- 5.77
3		hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	0.994	0.954	4.0	89	0.00	14.17-14.23
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	97	0.00	4.42- 5.42
28	L8	Toxaphene{A}	0.005	0.006	-20.0	121	0.00	8.46- 8.66
29	L8	Toxaphene{B}	0.007	0.010	-42.9#	140	0.00	9.61- 9.81
30	L8	Toxaphene{C}	0.008	0.007	12.5	95	0.00	10.57-10.77
31	L8	Toxaphene{D}	0.021	0.027	-28.6#	122	0.00	10.87-11.07
32	L8	Toxaphene{E}	0.033	0.029	12.1	86	0.00	11.75-11.95
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	91	0.00	4.42- 5.42
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5G138215.d 5pstlvi3634a.M Wed Jun 05 13:56:56 2024

8.10.10

8

Continuing Calibration Summary

Job Number: JD91204 **Sample:** G5G3659-CC3634
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5G138852.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\la...9\5G138852.d\ECD1A.ch Vial: 4
Signal #2 : C:\msdchem\1\data\laylan...g3659\5G138852.d\ECD2B.ch
Acq On : 1 Jul 2024 12:06 am Operator: christp
Sample : cc3634-5 Inst : GC5G
Misc : op55658,G5G3659,2.5,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...59\5pstlvi3634.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Mon Jul 01 08:44:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	63	0.00	4.11- 5.11
2	SAB	Tetrachloro-m-xylene	0.539	0.421	21.9#	54	0.00	5.21- 5.27
3		hexachlorobenzene	1.928	2.328	-20.7#	77	0.00	5.53- 5.59
4	A	alpha-BHC	1.897	2.250	-18.6	71	0.00	5.68- 5.74
5	MA	gamma-BHC	1.649	2.053	-24.5#	73	0.00	5.97- 6.03
6	MA	Heptachlor	1.769	2.010	-13.6	72	0.00	6.44- 6.50
7	B	beta-BHC	0.601	0.630	-4.8	69	0.00	6.05- 6.11
8	B	delta-BHC	1.921	2.150	-11.9	69	0.00	6.22- 6.28
9	MB	Aldrin	1.744	1.974	-13.2	69	0.00	6.76- 6.82
10		alachlor	0.138	0.134	2.9	63	0.00	6.93- 6.99
11	B	Heptachlor Epoxide	1.579	1.360	13.9	55	0.00	7.46- 7.52
12	B	gamma-Chlordane	1.688	1.666	1.3	61	0.00	7.61- 7.67
13	B	alpha-Chlordane	1.596	1.588	0.5	61	0.00	7.78- 7.84
14	A	Endosulfan I	1.588	1.638	-3.1	66	0.00	7.95- 8.01
15	B	4,4'-DDE	1.431	1.342	6.2	58	0.00	7.90- 7.96
16	MA	Dieldrin	1.682	1.691	-0.5	65	0.00	8.26- 8.32
17	MA	Endrin	1.477	1.510	-2.2	66	0.00	8.58- 8.64
18	A	4,4'-DDD	1.242	1.245	-0.2	68	0.00	8.71- 8.77
19	B	Endosulfan II	1.416	1.496	-5.6	70	0.00	8.89- 8.95
20	MA	4,4'-DDT	1.137	1.154	-1.5	62	0.00	9.12- 9.18
21	B	Endrin Aldehyde	1.053	1.017	3.4	68	0.00	9.51- 9.57
22	B	Endosulfan Sulfate	1.369	1.352	1.2	65	0.00	10.19-10.25
23	A	Methoxychlor	0.572	0.537	6.1	64	0.00	9.90- 9.96
24		Mirex	0.984	0.904	8.1	65	0.00	10.00-10.06
25	B	Endrin Ketone	1.521	1.437	5.5	65	0.00	10.61-10.67
26	SA	Decachlorobiphenyl	1.448	1.067	26.3#	50	0.00	12.40-12.46
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	75	0.00	4.11- 5.11
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	68	0.00	4.11- 5.11
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Continuing Calibration Summary

Job Number: JD91204 **Sample:** G5G3659-CC3634
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5G138852.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	84	0.00	4.40- 5.40
2	SAB	Tetrachloro-m-xylene	1.334	1.219	8.6	85	0.00	5.69- 5.75
3		hexachlorobenzene	1.879	1.675	10.9	81	0.00	6.18- 6.24
4	A	alpha-BHC	2.168	2.090	3.6	84	0.00	6.33- 6.39
5	MA	gamma-BHC	1.941	1.875	3.4	85	0.00	6.74- 6.80
6	MA	Heptachlor	1.199	1.406	-17.3	101	0.00	7.29- 7.35
7	B	beta-BHC	0.861	0.720	16.4	82	0.00	6.83- 6.89
8	B	delta-BHC	1.901	1.783	6.2	83	0.00	7.20- 7.26
9	MB	Aldrin	1.797	1.670	7.1	82	0.00	7.71- 7.77
10		alachlor	0.184	0.239	-29.9#	119	0.00	7.55- 7.61
11	B	Heptachlor Epoxide	1.641	1.481	9.8	84	0.00	8.51- 8.57
12	B	gamma-Chlordane	1.730	1.577	8.8	81	0.00	8.78- 8.84
13	B	alpha-Chlordane	1.683	1.519	9.7	82	0.00	9.00- 9.06
14	A	Endosulfan I	1.391	0.858	38.3#	54	0.00	9.09- 9.15
15	B	4,4'-DDE	1.532	1.489	2.8	86	0.00	9.27- 9.33
16	MA	Dieldrin	1.608	1.512	6.0	85	0.00	9.51- 9.57
17	MA	Endrin	1.179	1.210	-2.6	94	0.00	10.00-10.06
18	A	4,4'-DDD	0.976	1.209	-23.9#	118	0.00	10.20-10.26
19	B	Endosulfan II	1.396	1.254	10.2	82	0.00	10.34-10.40
20	MA	4,4'-DDT	1.022	1.063	-4.0	93	0.00	10.71-10.77
21	B	Endrin Aldehyde	1.021	0.798	21.8#	75	0.00	10.90-10.96
22	B	Endosulfan Sulfate	1.386	1.025	26.0#	70	0.00	11.36-11.42
23	A	Methoxychlor	0.418	0.473	-13.2	110	0.00	11.94-12.00
24		Mirex	0.979	0.800	18.3	74	0.00	12.23-12.29
25	B	Endrin Ketone	1.416	1.243	12.2	81	0.00	12.30-12.36
26	SA	Decachlorobiphenyl	0.994	0.724	27.2#	66	0.00	14.15-14.21
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	94	0.00	4.40- 5.40
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	88	0.00	4.40- 5.40
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					
36		Chlordane {C}	----------NA----------					
37		Chlordane {D}	----------NA----------					
38		Chlordane {E}	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5G138775.d 5pstlvi3634.M Mon Jul 01 09:14:10 2024

8.10.11

8

Continuing Calibration Summary

Job Number: JD91204 **Sample:** G5G3661-CC3634
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5G138887.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\an...1\5G138887.d\ECD1A.ch Vial: 4
Signal #2 : C:\msdchem\1\data\anndg\g5g3661\5G138887.d\ECD2B.ch
Acq On    :  2 Jul 2024  12:35 am                    Operator: christp
Sample    : cc3634-5                                 Inst    : GC5G
Misc      : op55761,G5G3661,5.0,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\msdchem\1\dat...61\5pstlvi3634.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Tue Jul 02 07:23:01 2024
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	67	0.00	4.11- 5.11
2	SAB	Tetrachloro-m-xylene	0.539	0.398	26.2#	54	0.00	5.21- 5.27
3		hexachlorobenzene	1.928	2.154	-11.7	76	0.00	5.54- 5.60
4	A	alpha-BHC	1.897	2.063	-8.8	70	0.00	5.68- 5.74
5	MA	gamma-BHC	1.649	1.903	-15.4	72	0.00	5.97- 6.03
6	MA	Heptachlor	1.769	1.894	-7.1	72	0.00	6.44- 6.50
7	B	beta-BHC	0.601	0.573	4.7	67	0.00	6.05- 6.11
8	B	delta-BHC	1.921	2.015	-4.9	69	0.00	6.23- 6.29
9	MB	Aldrin	1.744	1.866	-7.0	69	0.00	6.76- 6.82
10		alachlor	0.138	0.117	15.2	59	0.00	6.93- 6.99
11	B	Heptachlor Epoxide	1.579	1.258	20.3#	54	0.00	7.46- 7.52
12	B	gamma-Chlordane	1.688	1.667	1.2	65	0.00	7.62- 7.68
13	B	alpha-Chlordane	1.596	1.573	1.4	64	0.00	7.78- 7.84
14	A	Endosulfan I	1.588	1.563	1.6	66	0.00	7.95- 8.01
15	B	4,4'-DDE	1.431	1.331	7.0	61	0.00	7.90- 7.96
16	MA	Dieldrin	1.682	1.580	6.1	64	0.00	8.27- 8.33
17	MA	Endrin	1.477	1.548	-4.8	72	0.00	8.58- 8.64
18	A	4,4'-DDD	1.242	1.207	2.8	70	0.00	8.71- 8.77
19	B	Endosulfan II	1.416	1.425	-0.6	71	0.00	8.90- 8.96
20	MA	4,4'-DDT	1.137	1.167	-2.6	66	0.00	9.12- 9.18
21	B	Endrin Aldehyde	1.053	0.994	5.6	71	0.00	9.51- 9.57
22	B	Endosulfan Sulfate	1.369	1.314	4.0	67	0.00	10.19-10.25
23	A	Methoxychlor	0.572	0.560	2.1	71	0.00	9.90- 9.96
24		Mirex	0.984	0.846	14.0	64	0.00	10.00-10.06
25	B	Endrin Ketone	1.521	1.374	9.7	66	0.00	10.61-10.67
26	SA	Decachlorobiphenyl	1.448	0.984	32.0#	49#	0.00	12.40-12.46
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	79	0.00	4.11- 5.11
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	72	0.00	4.11- 5.11
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Continuing Calibration Summary

Job Number: JD91204 **Sample:** G5G3661-CC3634
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5G138887.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	90	0.00	4.41- 5.41
2	SAB	Tetrachloro-m-xylene	1.334	1.146	14.1	85	0.00	5.69- 5.75
3		hexachlorobenzene	1.879	1.569	16.5	81	0.00	6.18- 6.24
4	A	alpha-BHC	2.168	1.940	10.5	83	0.00	6.33- 6.39
5	MA	gamma-BHC	1.941	1.746	10.0	85	0.00	6.74- 6.80
6	MA	Heptachlor	1.199	1.246	-3.9	96	0.00	7.29- 7.35
7	B	beta-BHC	0.861	0.659	23.5#	80	0.00	6.83- 6.89
8	B	delta-BHC	1.901	1.640	13.7	81	0.00	7.20- 7.26
9	MB	Aldrin	1.797	1.550	13.7	81	0.00	7.72- 7.78
10		alachlor	0.184	0.221	-20.1#	118	0.00	7.55- 7.61
11	B	Heptachlor Epoxide	1.641	1.371	16.5	83	0.00	8.51- 8.57
12	B	gamma-Chlordane	1.730	1.442	16.6	79	0.00	8.79- 8.85
13	B	alpha-Chlordane	1.683	1.388	17.5	80	0.00	9.00- 9.06
14	A	Endosulfan I	1.391	0.767	44.9#	51	0.00	9.09- 9.15
15	B	4,4'-DDE	1.532	1.348	12.0	83	0.00	9.27- 9.33
16	MA	Dieldrin	1.608	1.376	14.4	82	0.00	9.51- 9.57
17	MA	Endrin	1.179	1.127	4.4	93	0.00	10.00-10.06
18	A	4,4'-DDD	0.976	1.045	-7.1	109	0.00	10.19-10.25
19	B	Endosulfan II	1.396	1.092	21.8#	77	0.00	10.34-10.40
20	MA	4,4'-DDT	1.022	0.945	7.5	88	0.00	10.72-10.78
21	B	Endrin Aldehyde	1.021	0.779	23.7#	78	0.00	10.90-10.96
22	B	Endosulfan Sulfate	1.386	0.933	32.7#	68	0.00	11.37-11.43
23	A	Methoxychlor	0.418	0.398	4.8	99	0.00	11.94-12.00
24		Mirex	0.979	0.691	29.4#	68	0.00	12.23-12.29
25	B	Endrin Ketone	1.416	1.057	25.4#	73	0.00	12.30-12.36
26	SA	Decachlorobiphenyl	0.994	0.629	36.7#	61	0.00	14.15-14.21
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	4.41- 5.41
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	94	0.00	4.41- 5.41
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					
36		Chlordane {C}	----------NA----------					
37		Chlordane {D}	----------NA----------					
38		Chlordane {E}	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5G138887.d 5pstlvi3634.M Tue Jul 02 07:29:30 2024

8.10.12

8

Continuing Calibration Summary

Job Number: JD91204 **Sample:** G5G3662-CC3634
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5G138921.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\na...2\5G138921.d\ECD1A.ch Vial: 2
Signal #2 : C:\msdchem\1\data\nazary...g3662\5G138921.d\ECD2B.ch
Acq On : 2 Jul 2024 3:35 pm Operator: tilakp
Sample : cc3634-2.5 Inst : GC5G
Misc : op55761,G5G3662,5.2,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...62\5pstlvi3634.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Jul 03 05:16:26 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	80	0.00	4.12- 5.12
2	SAB	Tetrachloro-m-xylene	0.539	0.415	23.0#	64	0.00	5.22- 5.28
3		hexachlorobenzene	1.928	2.211	-14.7	96	0.00	5.55- 5.61
4	A	alpha-BHC	1.897	2.087	-10.0	88	0.00	5.69- 5.75
5	MA	gamma-BHC	1.649	1.876	-13.8	88	0.00	5.98- 6.04
6	MA	Heptachlor	1.769	1.828	-3.3	85	0.00	6.46- 6.52
7	B	beta-BHC	0.601	0.562	6.5	75	0.00	6.06- 6.12
8	B	delta-BHC	1.921	1.904	0.9	80	0.00	6.24- 6.30
9	MB	Aldrin	1.744	1.836	-5.3	85	0.00	6.78- 6.84
10		alachlor	0.138	0.133	3.6	72	0.00	6.94- 7.00
11	B	Heptachlor Epoxide	1.579	1.578	0.1	82	0.00	7.47- 7.53
12	B	gamma-Chlordane	1.688	1.727	-2.3	85	0.00	7.63- 7.69
13	B	alpha-Chlordane	1.596	1.628	-2.0	82	0.00	7.79- 7.85
14	A	Endosulfan I	1.588	1.641	-3.3	83	0.00	7.96- 8.02
15	B	4,4'-DDE	1.431	1.419	0.8	80	0.00	7.91- 7.97
16	MA	Dieldrin	1.682	1.617	3.9	79	0.00	8.28- 8.34
17	MA	Endrin	1.477	1.456	1.4	82	0.00	8.59- 8.65
18	A	4,4'-DDD	1.242	1.116	10.1	78	0.00	8.73- 8.79
19	B	Endosulfan II	1.416	1.344	5.1	80	0.00	8.91- 8.97
20	MA	4,4'-DDT	1.137	1.235	-8.6	88	0.00	9.13- 9.19
21	B	Endrin Aldehyde	1.053	1.029	2.3	87	0.00	9.52- 9.58
22	B	Endosulfan Sulfate	1.369	1.416	-3.4	88	0.00	10.20-10.26
23	A	Methoxychlor	0.572	0.578	-1.0	86	0.00	9.91- 9.97
24		Mirex	0.984	0.903	8.2	83	0.00	10.02-10.08
25	B	Endrin Ketone	1.521	1.437	5.5	81	0.00	10.62-10.68
26	SA	Decachlorobiphenyl	1.448	1.228	15.2	72	0.00	12.41-12.47
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	80	0.00	4.12- 5.12
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	80	0.00	4.12- 5.12
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

8.10.13

8

Continuing Calibration Summary

Job Number: JD91204 **Sample:** G5G3662-CC3634
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5G138921.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	4.42- 5.42
2	SAB	Tetrachloro-m-xylene	1.334	1.260	5.5	102	0.00	5.71- 5.77
3		hexachlorobenzene	1.879	1.713	8.8	98	0.00	6.19- 6.25
4	A	alpha-BHC	2.168	2.092	3.5	100	0.00	6.35- 6.41
5	MA	gamma-BHC	1.941	1.854	4.5	100	0.00	6.75- 6.81
6	MA	Heptachlor	1.199	1.171	2.3	95	0.00	7.30- 7.36
7	B	beta-BHC	0.861	0.757	12.1	98	0.00	6.84- 6.90
8	B	delta-BHC	1.901	1.830	3.7	99	0.00	7.21- 7.27
9	MB	Aldrin	1.797	1.699	5.5	97	0.00	7.73- 7.79
10		alachlor	0.184	0.208	-13.0	112	0.00	7.56- 7.62
11	B	Heptachlor Epoxide	1.641	1.479	9.9	95	0.00	8.52- 8.58
12	B	gamma-Chlordane	1.730	1.539	11.0	93	0.00	8.80- 8.86
13	B	alpha-Chlordane	1.683	1.467	12.8	93	0.00	9.01- 9.07
14	A	Endosulfan I	1.391	1.230	11.6	87	0.00	9.10- 9.16
15	B	4,4'-DDE	1.532	1.417	7.5	98	0.00	9.28- 9.34
16	MA	Dieldrin	1.608	1.470	8.6	96	0.00	9.52- 9.58
17	MA	Endrin	1.179	1.175	0.3	108	0.00	10.01-10.07
18	A	4,4'-DDD	0.976	1.009	-3.4	113	0.00	10.20-10.26
19	B	Endosulfan II	1.396	1.188	14.9	90	0.00	10.35-10.41
20	MA	4,4'-DDT	1.022	0.788	22.9#	83	0.00	10.72-10.78
21	B	Endrin Aldehyde	1.021	0.816	20.1#	87	0.00	10.91-10.97
22	B	Endosulfan Sulfate	1.386	1.035	25.3#	80	0.00	11.37-11.43
23	A	Methoxychlor	0.418	0.337	19.4	88	0.00	11.95-12.01
24		Mirex	0.979	0.695	29.0#	78	0.00	12.24-12.30
25	B	Endrin Ketone	1.416	1.086	23.3#	81	0.00	12.31-12.37
26	SA	Decachlorobiphenyl	0.994	0.698	29.8#	77	0.00	14.15-14.21
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	4.42- 5.42
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	4.42- 5.42
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5G138833.d 5pstlvi3634.M Wed Jul 03 05:23:03 2024

8.10.13

8

Initial Calibration Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICC343
Lab FileID: RL15612.D

Response Factor Report GCRL

Method : C:\msdchem\1\met...pcblvigcrl343a.m (ChemStation Integrator)
Title :
Last Update : Mon Apr 29 20:33:49 2024
Response via : Initial Calibration

Calibration Files
50 =RL15608.D 250 =RL15610.D 500 =RL15611.D 1000=RL15612.D
2000=RL15613.D 3000=RL15614.D 5000=RL15615.D 10k =RL15616.D
20k =RL15617.D 100 =RL15609.D = =

Compound	50	250	500	1000	2000	3000	5000	10k	20k	100	Avg	%RSD
1) Tetrachloro-m-xylene	2.139	2.110	2.322	2.087	2.120	2.227				2.252	2.180 E8	4.03
2) AR1221-A				1.641							1.641 E6	0.00
3) AR1221-B				2.317							2.317 E6	0.00
4) AR1221-C				6.262							6.262 E6	0.00
5) AR1221-D				1.131							1.131 E6	0.00
6) AR1221-E				1.465							1.465 E6	0.00
7) AR1232-A				5.322							5.322 E6	0.00
8) AR1232-B				3.540							3.540 E6	0.00
9) AR1232-C				7.399							7.399 E6	0.00
10) AR1232-D				2.880							2.880 E6	0.00
11) AR1232-E				2.597							2.597 E6	0.00
12) AR1242-A				6.180							6.180 E6	0.00
13) AR1242-B				1.312							1.312 E7	0.00
14) AR1242-C				5.235							5.235 E6	0.00
15) AR1242-D				3.954							3.954 E6	0.00
16) AR1242-E				4.474							4.474 E6	0.00
17) AR1248-A				2.776							2.776 E6	0.00
18) AR1248-B				7.946							7.946 E6	0.00
19) AR1248-C				4.769							4.769 E6	0.00
20) AR1248-D				4.198							4.198 E6	0.00
21) AR1248-E				3.757							3.757 E6	0.00
22) AR1248-F				7.422							7.422 E6	0.00
23) AR1248-G												

Initial Calibration Summary

Job Number: JD91204 **Sample:** GRL343-ICC343
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RL15612.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

				6.237							6.237 E6	0.00	
24)	AR1254-A												
				6.642							6.642 E6	0.00	
25)	AR1254-B												
				1.204							1.204 E7	0.00	
26)	AR1254-C												
				7.173							7.173 E6	0.00	
27)	AR1254-D												
				1.260							1.260 E7	0.00	
28)	AR1254-E												
				9.726							9.726 E6	0.00	
29)	AR1254-F												
				9.137							9.137 E6	0.00	
30)	AR1254-G												
				1.279							1.279 E7	0.00	
31)	AR1262-A												
				1.078							1.078 E7	0.00	
32)	AR1262-B												
				1.456							1.456 E7	0.00	
33)	AR1262-C												
				1.174							1.174 E7	0.00	
34)	AR1262-D												
				2.751							2.751 E7	0.00	
35)	AR1262-E												
				2.864							2.864 E7	0.00	
36)	AR1268-A												
				3.105							3.105 E7	0.00	
37)	AR1268-B												
				2.879							2.879 E7	0.00	
38)	AR1268-C												
				2.302							2.302 E7	0.00	
39)	AR1268-D												
				9.768							9.768 E6	0.00	
40)	AR1268-E												
				6.918							6.918 E7	0.00	
41)	AR1016-A												
	4.264	4.052	3.744	3.880	3.424	3.438	3.573	3.699	3.495	4.711	3.828 E6	10.80	
42)	AR1016-B												
	8.012	8.027	7.569	7.887	6.941	6.955	7.234	7.507	7.111	8.873	7.612 E6	7.94	
43)	AR1016-C												
	1.671	1.698	1.614	1.713	1.509	1.518	1.586	1.658	1.586	1.903	1.646 E7	6.94	
44)	AR1016-D												
	7.944	6.959	6.556	6.826	6.256	6.046	6.297	6.488	6.367	8.285	6.802 E6	10.96	
45)	AR1016-E												
	7.183	7.055	6.683	7.023	6.247	6.281	6.608	6.780	6.353	8.003	6.822 E6	7.77	
46)	AR1260-A												
	1.550	1.561	1.488	1.566	1.385	1.390	1.449	1.508	1.435	1.726	1.506 E7	6.78	
47)	AR1260-B												
	1.037	1.060	1.003	1.069	0.891	0.952	1.001	1.041	0.990	1.093	1.014 E7	5.92	
48)	AR1260-C												
	0.881	0.930	0.903	0.968	0.866	0.872	0.917	0.938	0.911	1.003	0.919 E7	4.68	
49)	AR1260-D												
	2.054	2.211	2.146	2.310	2.071	2.102	2.235	2.420	1.937	2.331	2.182 E7	6.76	
50)	AR1260-E												
	2.185	2.223	2.157	2.310	2.063	2.103	2.217	2.340	2.242	2.487	2.233 E7	5.51	
51)	Decachlorobiphenyl												
		1.518	1.423	1.487	1.304	1.305	1.348			1.891	1.468 E8	13.95	

Signal #2

Initial Calibration Summary

Job Number: JD91204 **Sample:** GRL343-ICC343
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RL15612.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

1)	Tetrachloro-m-xylene									
		1.432	1.438	1.583	1.457	1.489	1.585	1.556	1.506 E8	4.49
2)	AR1221-A									
				1.060					1.060 E6	0.00
3)	AR1221-B									
				1.579					1.579 E6	0.00
4)	AR1221-C									
				4.351					4.351 E6	0.00
5)	AR1221-D									
				1.191					1.191 E6	0.00
6)	AR1221-E									
				8.198					8.198 E5	0.00
7)	AR1232-A									
				3.082					3.082 E6	0.00
8)	AR1232-B									
				2.339					2.339 E6	0.00
9)	AR1232-C									
				5.146					5.146 E6	0.00
10)	AR1232-D									
				1.933					1.933 E6	0.00
11)	AR1232-E									
				1.391					1.391 E6	0.00
12)	AR1242-A									
				4.260					4.260 E6	0.00
13)	AR1242-B									
				9.860					9.860 E6	0.00
14)	AR1242-C									
				3.593					3.593 E6	0.00
15)	AR1242-D									
				2.942					2.942 E6	0.00
16)	AR1242-E									
				3.571					3.571 E6	0.00
17)	AR1248-A									
				1.891					1.891 E6	0.00
18)	AR1248-B									
				5.798					5.798 E6	0.00
19)	AR1248-C									
				3.608					3.608 E6	0.00
20)	AR1248-D									
				4.785					4.785 E6	0.00
21)	AR1248-E									
				4.347					4.347 E6	0.00
22)	AR1248-F									
				6.468					6.468 E6	0.00
23)	AR1248-G									
				5.895					5.895 E6	0.00
24)	AR1254-A									
				5.798					5.798 E6	0.00
25)	AR1254-B									
				6.898					6.898 E6	0.00
26)	AR1254-C									
				4.806					4.806 E6	0.00
27)	AR1254-D									
				1.073					1.073 E7	0.00
28)	AR1254-E									
				8.537					8.537 E6	0.00
29)	AR1254-F									
				7.764					7.764 E6	0.00
30)	AR1254-G									
				9.950					9.950 E6	0.00

8.10.14

8

Initial Calibration Summary

Job Number: JD91204 **Sample:** GRL343-ICC343
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RL15612.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

```
31)  AR1262-A
                          8.633                                    8.633 E6    0.00
32)  AR1262-B
                          1.263                                    1.263 E7    0.00
33)  AR1262-C
                          9.803                                    9.803 E6    0.00
34)  AR1262-D
                          2.086                                    2.086 E7    0.00
35)  AR1262-E
                          2.188                                    2.188 E7    0.00
36)  AR1268-A
                          2.505                                    2.505 E7    0.00
37)  AR1268-B
                          2.163                                    2.163 E7    0.00
38)  AR1268-C
                          1.756                                    1.756 E7    0.00
39)  AR1268-D
                          7.384                                    7.384 E6    0.00
40)  AR1268-E
                          5.255                                    5.255 E7    0.00
41)  AR1016-A
          2.500 2.653 2.466 2.718 2.435 2.415 2.535 2.669 2.520 2.758  2.567 E6    4.78
42)  AR1016-B
          4.939 5.348 5.178 5.544 4.994 5.065 5.318 5.556 5.239 5.925  5.310 E6    5.66
43)  AR1016-C
          1.213 1.246 1.238 1.323 1.185 1.199 1.255 1.310 1.237 1.398  1.260 E7    5.16
44)  AR1016-D
          4.490 4.690 4.535 4.847 4.345 4.391 4.610 4.804 4.526 4.872  4.611 E6    4.05
45)  AR1016-E
          3.380 3.849 3.611 3.855 3.487 3.533 3.711 3.861 3.621 4.388  3.730 E6    7.62
46)  AR1260-A
          1.178 1.093 1.060 1.153 1.037 1.049 1.109 1.171 1.114 1.134  1.110 E7    4.52
47)  AR1260-B
          7.479 8.433 8.327 8.973 8.105 8.209 8.683 9.199 8.775 9.381  8.556 E6    6.61
48)  AR1260-C
          9.074 8.085 7.765 8.360 7.593 7.713 8.190 8.700 8.293 8.928  8.270 E6    6.16
49)  AR1260-D
          1.838 1.863 1.828 1.946 1.754 1.786 1.907 2.045 1.742 2.012  1.872 E7    5.57
50)  AR1260-E
          1.700 1.687 1.727 1.795 1.610 1.634 1.734 1.855 1.787 1.888  1.742 E7    5.17
51)  Decachlorobiphenyl
                1.198 1.100 1.107 0.970 0.974 1.021            1.475  1.121 E8   15.71
-------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          pcblvigcrl343a.m        Mon Apr 29 20:51:31 2024
```

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15618.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\grl343\RL15618.D\ECD1A.ch Vial: 31
Signal #2 : C:\msdchem\1\data\grl343\RL15618.D\ECD2B.ch
Acq On : 29 Apr 2024 05:04 am Operator: christp
Sample : icv343-100 Inst : GCRL
Misc : op54010,grl343,5.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...pcblvigcrl343a.m (ChemStation Integrator)
Title :
Last Update : Mon Apr 29 20:33:49 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	236.951 E6	-8.7	102	0.00	3.89- 3.95
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	3.828	3.613 E6	5.6	93	0.00	4.19- 4.25

8.10.15

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15618.D

42		AR1016-B	7.612	7.803	E6	-2.5	99	0.00	4.49- 4.55
43		AR1016-C	16.456	16.744	E6	-1.8	98	0.00	4.89- 4.95
44		AR1016-D	6.802	6.681	E6	1.8	98	0.00	5.01- 5.07
45		AR1016-E	6.822	6.675	E6	2.2	95	0.00	5.41- 5.48
46		AR1260-A	15.058	15.462	E6	-2.7	99	0.00	7.43- 7.49
47		AR1260-B	10.137	8.591	E6	15.3	80	0.00	7.92- 7.98
48		AR1260-C	9.189	7.846	E6	14.6	81	0.00	8.19- 8.26
49		AR1260-D	21.816	18.919	E6	13.3	82	0.00	8.53- 8.59
50		AR1260-E	22.328	18.020	E6	19.3	78	0.00	8.81- 8.87
51	S	Decachlorobiphenyl	146.814	166.157	E6	-13.2	112	0.00	9.79- 9.86
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	162.561	E6	-8.0	103	0.00	4.30- 4.36
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	2.567	2.488	E6	3.1	92	0.00	4.75- 4.81
42		AR1016-B	5.310	5.458	E6	-2.8	98	0.00	5.15- 5.21
43		AR1016-C	12.604	12.715	E6	-0.9	96	0.00	5.66- 5.72
44		AR1016-D	4.611	4.606	E6	0.1	95	0.00	5.83- 5.89
45		AR1016-E	3.730	3.693	E6	1.0	96	0.00	6.49- 6.55
46		AR1260-A	11.098	11.138	E6	-0.4	97	0.00	8.47- 8.53
47		AR1260-B	8.556	7.116	E6	16.8	79	0.00	8.94- 9.00

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15618.D

48		AR1260-C	8.270	6.984	E6	15.6	84	0.00	9.22- 9.28
49		AR1260-D	18.723	15.920	E6	15.0	82	0.00	9.44- 9.50
50		AR1260-E	17.416	13.882	E6	20.3#	77	0.00	9.76- 9.82
51	S	Decachlorobiphenyl	112.075	121.443	E6	-8.4	110	0.00	10.71-10.77

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL15612.D pcblvigcrl343a.m Mon Apr 29 20:50:16 2024

8.10.15

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15626.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\grl343\RL15626.D\ECD1A.ch Vial: 39
Signal #2 : C:\msdchem\1\data\grl343\RL15626.D\ECD2B.ch
Acq On : 29 Apr 2024 07:19 am Operator: christp
Sample : icv343-100 Inst : GCRL
Misc : op54010,grl343,5.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...pcblvigcrl343a.m (ChemStation Integrator)
Title :
Last Update : Mon Apr 29 13:50:45 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	217.958	224.922 E6	-3.2	97	0.00	3.89- 3.95
2	AR1221-A	1.641	1.412 E6	14.0	86	0.00	3.38- 3.58
3	AR1221-B	2.317	1.953 E6	15.7	84	0.00	3.96- 4.16
4	AR1221-C	6.262	4.929 E6	21.3#	79	0.00	4.12- 4.32
5	AR1221-D	1.131	0.985 E6	12.9	87	0.00	4.42- 4.62
6	AR1221-E	1.465	0.992 E6	32.3#	68	0.02	4.82- 5.02
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A		----------NA----------				

8.10.16

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Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15626.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	146.814	147.582 E6	-0.5	99	0.01	9.80-	9.87
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	147.554 E6	2.0	93	0.00	4.30-	4.36
2		AR1221-A	1.060	1.051 E6	0.8	99	0.00	3.89-	3.95
3		AR1221-B	1.579	1.332 E6	15.6	84	0.00	4.50-	4.70
4		AR1221-C	4.351	3.431 E6	21.1#	79	0.00	4.69-	4.89
5		AR1221-D	1.191	1.057 E6	11.3	89	0.00	5.14-	5.34
6		AR1221-E	819.844	710.372 E3	13.4	87	0.00	5.59-	5.79
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A			----------NA----------				
37		AR1268-B			----------NA----------				
38		AR1268-C			----------NA----------				
39		AR1268-D			----------NA----------				
40		AR1268-E			----------NA----------				
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15626.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	112.075	109.264 E6	2.5	99	0.03	10.74-10.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL15612.D pcblvigcrl343a.m Mon Apr 29 13:55:20 2024

8.10.16

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15627.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\grl343\RL15627.D\ECD1A.ch Vial: 40
Signal #2 : C:\msdchem\1\data\grl343\RL15627.D\ECD2B.ch
Acq On : 29 Apr 2024 07:36 am Operator: christp
Sample : icv343-100 Inst : GCRL
Misc : op54010,grl343,5.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...pcblvigcrl343a.m (ChemStation Integrator)
Title :
Last Update : Mon Apr 29 13:50:45 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	207.971 E6	4.6	90	0.00	3.89- 3.95
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A	6.642	6.036 E6	9.1	91	0.00	5.77- 5.97
25		AR1254-B	12.041	10.927 E6	9.3	91	0.00	6.10- 6.30
26		AR1254-C	7.173	6.434 E6	10.3	90	0.00	6.50- 6.70
27		AR1254-D	12.604	11.295 E6	10.4	90	0.00	6.70- 6.90
28		AR1254-E	9.726	8.726 E6	10.3	90	0.00	7.11- 7.31
29		AR1254-F	9.137	8.417 E6	7.9	92	0.00	7.36- 7.56
30		AR1254-G	12.789	11.612 E6	9.2	91	0.00	7.72- 7.92
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				

8.10.17

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Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15627.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	146.814	148.244 E6	-1.0	100	0.02	9.80- 9.87	
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	144.871 E6	3.8	92	0.00	4.30- 4.36	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A	5.798	5.237 E6	9.7	90	0.00	7.10- 7.30	
25		AR1254-B	6.898	6.165 E6	10.6	89	0.00	7.35- 7.55	
26		AR1254-C	4.806	4.237 E6	11.8	88	0.00	7.82- 8.02	
27		AR1254-D	10.728	9.523 E6	11.2	89	0.00	7.97- 8.17	
28		AR1254-E	8.537	7.428 E6	13.0	87	0.00	8.22- 8.42	
29		AR1254-F	7.764	6.934 E6	10.7	89	0.00	8.59- 8.79	
30		AR1254-G	9.950	8.973 E6	9.8	90	0.00	8.79- 8.99	
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A			----------NA----------				
37		AR1268-B			----------NA----------				
38		AR1268-C			----------NA----------				
39		AR1268-D			----------NA----------				
40		AR1268-E			----------NA----------				
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

8.10.17

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Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15627.D

48		AR1260-C				----------NA----------			
49		AR1260-D				----------NA----------			
50		AR1260-E				----------NA----------			
51	S	Decachlorobiphenyl	112.075	105.258	E6	6.1	95	0.03	10.74-10.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL15612.D pcblvigcrl343a.m Mon Apr 29 13:55:33 2024

8.10.17

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Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15628.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\grl343\RL15628.D\ECD1A.ch  Vial: 41
Signal #2 : C:\msdchem\1\data\grl343\RL15628.D\ECD2B.ch
Acq On    : 29 Apr 2024  07:53 am                    Operator: christp
Sample    : icv343-100                               Inst    : GCRL
Misc      : op54010,grl343,5.1,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\msdchem\1\met...pcblvigcrl343a.m (ChemStation Integrator)
Title        :
Last Update  : Mon Apr 29 13:50:45 2024
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	229.266 E6	-5.2	99	0.00	3.89- 3.95
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A	5.322	4.869 E6	8.5	91	0.00	4.12- 4.32
8		AR1232-B	3.540	3.315 E6	6.4	94	0.00	4.42- 4.62
9		AR1232-C	7.399	6.972 E6	5.8	94	0.00	4.82- 5.02
10		AR1232-D	2.880	2.615 E6	9.2	91	0.00	4.94- 5.14
11		AR1232-E	2.597	2.463 E6	5.2	95	0.00	5.34- 5.54
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				

8.10.18

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15628.D

42		AR1016-B		----------NA----------					
43		AR1016-C		----------NA----------					
44		AR1016-D		----------NA----------					
45		AR1016-E		----------NA----------					
46		AR1260-A		----------NA----------					
47		AR1260-B		----------NA----------					
48		AR1260-C		----------NA----------					
49		AR1260-D		----------NA----------					
50		AR1260-E		----------NA----------					
51	S	Decachlorobiphenyl	146.814	155.056 E6	-5.6	104	0.02	9.80-	9.87
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	151.869 E6	-0.9	96	0.00	4.30-	4.36
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A	3.082	2.860 E6	7.2	93	0.00	4.69-	4.89
8		AR1232-B	2.339	2.165 E6	7.4	93	0.00	5.08-	5.28
9		AR1232-C	5.146	4.816 E6	6.4	94	0.00	5.59-	5.79
10		AR1232-D	1.933	1.798 E6	7.0	93	0.00	5.76-	5.96
11		AR1232-E	1.391	1.315 E6	5.5	95	0.00	6.42-	6.62
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A		----------NA----------					
42		AR1016-B		----------NA----------					
43		AR1016-C		----------NA----------					
44		AR1016-D		----------NA----------					
45		AR1016-E		----------NA----------					
46		AR1260-A		----------NA----------					
47		AR1260-B		----------NA----------					

8.10.18

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Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15628.D

48		AR1260-C				----------NA----------			
49		AR1260-D				----------NA----------			
50		AR1260-E				----------NA----------			
51	S	Decachlorobiphenyl	112.075	110.882	E6	1.1	100	0.03	10.74-10.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL15612.D pcblvigcrl343a.m Mon Apr 29 20:29:52 2024

8.10.18

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15629.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\grl343\RL15629.D\ECD1A.ch Vial: 42
Signal #2 : C:\msdchem\1\data\grl343\RL15629.D\ECD2B.ch
Acq On : 29 Apr 2024 08:09 am Operator: christp
Sample : icv343-100 Inst : GCRL
Misc : op54010,grl343,5.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...pcblvigcrl343a.m (ChemStation Integrator)
Title :
Last Update : Mon Apr 29 13:50:45 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	217.149 E6	0.4	94	0.00	3.89- 3.95
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A	10.783	10.068 E6	6.6	93	0.00	7.36- 7.56
32		AR1262-B	14.564	13.662 E6	6.2	94	0.00	7.85- 8.05
33		AR1262-C	11.738	10.889 E6	7.2	93	0.00	8.13- 8.33
34		AR1262-D	27.514	25.377 E6	7.8	92	0.00	8.47- 8.67
35		AR1262-E	28.639	26.203 E6	8.5	91	0.00	8.78- 8.98
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				

8.10.19
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Initial Calibration Verification

Job Number: JD91204 **Sample:** GRL343-ICV343
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RL15629.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	146.814	153.160 E6	-4.3	103	0.02	9.80-	9.87
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	149.247 E6	0.9	94	0.00	4.30-	4.36
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1262-A	8.633	7.998 E6	7.4	93	0.00	8.41-	8.61
32		AR1262-B	12.634	11.620 E6	8.0	92	0.00	8.87-	9.07
33		AR1262-C	9.803	9.015 E6	8.0	92	0.00	9.16-	9.36
34		AR1262-D	20.859	19.212 E6	7.9	92	0.00	9.37-	9.57
35		AR1262-E	21.880	20.082 E6	8.2	92	0.00	9.69-	9.89
36		AR1268-A			----------NA----------				
37		AR1268-B			----------NA----------				
38		AR1268-C			----------NA----------				
39		AR1268-D			----------NA----------				
40		AR1268-E			----------NA----------				
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

8.10.19

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Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15629.D

48		AR1260-C				----------NA----------			
49		AR1260-D				----------NA----------			
50		AR1260-E				----------NA----------			
51	S	Decachlorobiphenyl	112.075	109.750	E6	2.1	99	0.04	10.75-10.81

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL15612.D pcblvigcrl343a.m Mon Apr 29 20:30:05 2024

8.10.19

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15630.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\grl343\RL15630.D\ECD1A.ch Vial: 43
Signal #2 : C:\msdchem\1\data\grl343\RL15630.D\ECD2B.ch
Acq On : 29 Apr 2024 08:26 am Operator: christp
Sample : icv343-100 Inst : GCRL
Misc : op54010,grl343,5.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...pcblvigcrl343a.m (ChemStation Integrator)
Title :
Last Update : Mon Apr 29 13:50:45 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	218.912 E6	-0.4	94	0.00	3.89- 3.95
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A	31.053	26.552 E6	14.5	86	0.00	8.79- 8.99
37		AR1268-B	28.786	24.863 E6	13.6	86	0.00	8.82- 9.02
38		AR1268-C	23.018	20.032 E6	13.0	87	0.00	9.01- 9.21
39		AR1268-D	9.768	8.395 E6	14.1	86	0.00	9.33- 9.53
40		AR1268-E	69.176	60.070 E6	13.2	87	0.00	9.58- 9.78
41		AR1016-A		----------NA----------				

8.10.20
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Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15630.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	146.814	429.090 E6	-192.3#	289#	0.02	9.81- 9.88	
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	153.003 E6	-1.6	97	0.00	4.30- 4.36	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A	25.048	21.758 E6	13.1	87	0.00	9.69- 9.89	
37		AR1268-B	21.634	18.745 E6	13.4	87	0.00	9.73- 9.93	
38		AR1268-C	17.559	15.352 E6	12.6	87	0.00	9.96-10.16	
39		AR1268-D	7.384	6.249 E6	15.4	85	0.01	10.17-10.37	
40		AR1268-E	52.548	45.318 E6	13.8	86	0.02	10.45-10.65	
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15630.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	112.075	306.588 E6	-173.6#	277#	0.04	10.75-10.81

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL15612.D pcblvigcrl343a.m Mon Apr 29 13:56:01 2024

8.10.20

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15631.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\grl343\RL15631.D\ECD1A.ch Vial: 44
Signal #2 : C:\msdchem\1\data\grl343\RL15631.D\ECD2B.ch
Acq On : 29 Apr 2024 08:43 am Operator: christp
Sample : icv343-100 Inst : GCRL
Misc : op54010,grl343,5.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...pcblvigcrl343a.m (ChemStation Integrator)
Title :
Last Update : Mon Apr 29 13:50:45 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	223.837 E6	-2.7	96	0.00	3.89- 3.95
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A	6.180	6.438 E6	-4.2	104	0.00	4.42- 4.62
13		AR1242-B	13.119	13.536 E6	-3.2	103	0.00	4.82- 5.02
14		AR1242-C	5.235	5.307 E6	-1.4	101	0.00	4.94- 5.14
15		AR1242-D	3.954	4.029 E6	-1.9	102	0.00	5.35- 5.55
16		AR1242-E	4.474	4.356 E6	2.6	97	0.00	5.86- 6.06
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				

8.10.21

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15631.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	146.814	152.328 E6	-3.8	102	0.02	9.81-	9.88
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	150.998 E6	-0.3	95	0.00	4.30-	4.36
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A	4.260	4.426 E6	-3.9	104	0.00	5.08-	5.28
13		AR1242-B	9.860	10.149 E6	-2.9	103	0.00	5.59-	5.79
14		AR1242-C	3.593	3.693 E6	-2.8	103	0.00	5.76-	5.96
15		AR1242-D	2.942	2.981 E6	-1.3	101	0.00	6.42-	6.62
16		AR1242-E	3.571	3.478 E6	2.6	97	0.00	7.10-	7.30
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A			----------NA----------				
37		AR1268-B			----------NA----------				
38		AR1268-C			----------NA----------				
39		AR1268-D			----------NA----------				
40		AR1268-E			----------NA----------				
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

8.10.21

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15631.D

48		AR1260-C				----------NA----------			
49		AR1260-D				----------NA----------			
50		AR1260-E				----------NA----------			
51	S	Decachlorobiphenyl	112.075	111.816	E6	0.2	101	0.04	10.75-10.81

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL15612.D pcblvigcrl343a.m Mon Apr 29 13:56:14 2024

8.10.21

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15632.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\grl343\RL15632.D\ECD1A.ch Vial: 45
Signal #2 : C:\msdchem\1\data\grl343\RL15632.D\ECD2B.ch
Acq On : 29 Apr 2024 09:00 am Operator: christp
Sample : icv343-100 Inst : GCRL
Misc : op54010,grl343,5.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...pcblvigcrl343a.m (ChemStation Integrator)
Title :
Last Update : Mon Apr 29 13:50:45 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	216.108 E6	0.8	93	0.02	3.91- 3.97
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A	2.776	2.705 E6	2.6	97	0.02	4.43- 4.63
18		AR1248-B	7.946	7.670 E6	3.5	97	0.02	4.84- 5.04
19		AR1248-C	4.769	4.594 E6	3.7	96	0.02	5.13- 5.33
20		AR1248-D	4.198	4.080 E6	2.8	97	0.02	5.45- 5.65
21		AR1248-E	3.757	3.633 E6	3.3	97	0.02	5.74- 5.94
22		AR1248-F	7.422	7.239 E6	2.5	98	0.01	5.88- 6.08
23		AR1248-G	6.237	6.055 E6	2.9	97	0.02	6.13- 6.33
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15632.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	146.814	150.939 E6	-2.8	101	0.03	9.82-	9.89
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	149.418 E6	0.8	94	0.00	4.30-	4.36
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A	1.891	1.860 E6	1.6	98	0.00	5.08-	5.28
18		AR1248-B	5.798	5.724 E6	1.3	99	0.00	5.56-	5.76
19		AR1248-C	3.608	3.520 E6	2.4	98	0.00	6.01-	6.21
20		AR1248-D	4.785	4.673 E6	2.3	98	0.00	6.42-	6.62
21		AR1248-E	4.347	4.232 E6	2.6	97	0.00	6.62-	6.82
22		AR1248-F	6.468	6.326 E6	2.2	98	0.00	7.10-	7.30
23		AR1248-G	5.895	5.750 E6	2.5	98	0.00	7.43-	7.63
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A			----------NA----------				
37		AR1268-B			----------NA----------				
38		AR1268-C			----------NA----------				
39		AR1268-D			----------NA----------				
40		AR1268-E			----------NA----------				
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

8.10.22

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15632.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	112.075	110.120 E6	1.7	99	0.04	10.74-10.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL15612.D pcblvigcrl343a.m Mon Apr 29 13:56:27 2024

8.10.22

8

Continuing Calibration Summary

Job Number: JD91204 **Sample:** GRL399-CC343
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RL17970.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\la...99\RL17970.D\ECD1A.ch Vial: 50
Signal #2 : C:\msdchem\1\data\laylanie\grl399\RL17970.D\ECD2B.ch
Acq On : 30 Jun 2024 11:22 pm Operator: christp
Sample : cc343-100 Inst : GCRL
Misc : op55736,grl399,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...\pcblvigcrl343.m (ChemStation Integrator)
Title :
Last Update : Mon Jul 01 06:35:36 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	193.680 E6	11.1	83	0.00	3.89- 3.95
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	3.828	3.202 E6	16.4	83	0.00	4.18- 4.24

8.10.23

8

Continuing Calibration Summary

Job Number: JD91204 **Sample:** GRL399-CC343
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RL17970.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42		AR1016-B	7.612	6.509	E6	14.5	83	0.00	4.48- 4.54
43		AR1016-C	16.456	13.398	E6	18.6	78	0.00	4.88- 4.94
44		AR1016-D	6.802	5.410	E6	20.5#	79	0.00	5.00- 5.06
45		AR1016-E	6.822	5.676	E6	16.8	81	0.00	5.39- 5.46
46		AR1260-A	15.058	11.770	E6	21.8#	75	0.00	7.41- 7.47
47		AR1260-B	10.137	8.401	E6	17.1	79	0.00	7.90- 7.96
48		AR1260-C	9.189	7.989	E6	13.1	83	0.00	8.18- 8.25
49		AR1260-D	21.816	18.460	E6	15.4	80	0.00	8.52- 8.58
50		AR1260-E	22.328	19.175	E6	14.1	83	0.00	8.80- 8.86
51	S	Decachlorobiphenyl	146.814	130.880	E6	10.9	88	0.00	9.78- 9.85
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	153.658	E6	-2.1	97	0.00	4.29- 4.35
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	2.567	2.529	E6	1.5	93	0.00	4.74- 4.80
42		AR1016-B	5.310	5.302	E6	0.2	96	0.00	5.13- 5.19
43		AR1016-C	12.604	12.250	E6	2.8	93	0.00	5.63- 5.69
44		AR1016-D	4.611	4.488	E6	2.7	93	0.00	5.80- 5.86
45		AR1016-E	3.730	3.724	E6	0.2	97	0.00	6.45- 6.51
46		AR1260-A	11.098	11.124	E6	-0.2	96	0.00	8.45- 8.51
47		AR1260-B	8.556	8.818	E6	-3.1	98	0.00	8.91- 8.97

Continuing Calibration Summary

Job Number: JD91204 **Sample:** GRL399-CC343
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RL17970.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

48		AR1260-C	8.270	8.345	E6	-0.9	100	0.00	9.20- 9.26
49		AR1260-D	18.723	18.119	E6	3.2	93	0.00	9.41- 9.47
50		AR1260-E	17.416	16.900	E6	3.0	94	0.00	9.74- 9.80
51	S	Decachlorobiphenyl	112.075	108.231	E6	3.4	98	0.00	10.69-10.75

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL17934.D pcblvigcrl343.m Mon Jul 01 06:45:05 2024

8.10.23

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Continuing Calibration Summary

Job Number: JD91204 **Sample:** GRL399-CC343
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RL17991.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\la...99\RL17991.D\ECD1A.ch Vial: 68
Signal #2 : C:\msdchem\1\data\laylanie\grl399\RL17991.D\ECD2B.ch
Acq On : 01 Jul 2024 07:22 am Operator: christp
Sample : cc343-50 Inst : GCRL
Misc : op55762,grl399,5.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...\pcblvigcrl343.m (ChemStation Integrator)
Title :
Last Update : Mon Jul 01 06:35:36 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	192.648 E6	11.6	91	0.00	3.88- 3.95
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	3.828	3.401 E6	11.2	91	0.00	4.18- 4.24

8.10.24
8

Continuing Calibration Summary

Job Number: JD91204 **Sample:** GRL399-CC343
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RL17991.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42		AR1016-B	7.612	6.800	E6	10.7	90	0.00	4.47- 4.53
43		AR1016-C	16.456	14.099	E6	14.3	87	0.00	4.88- 4.94
44		AR1016-D	6.802	5.666	E6	16.7	86	0.00	5.00- 5.06
45		AR1016-E	6.822	5.816	E6	14.7	87	0.00	5.39- 5.46
46		AR1260-A	15.058	12.594	E6	16.4	85	0.00	7.41- 7.47
47		AR1260-B	10.137	8.742	E6	13.8	87	0.00	7.90- 7.96
48		AR1260-C	9.189	8.162	E6	11.2	90	0.00	8.18- 8.25
49		AR1260-D	21.816	21.568	E6	1.1	100	0.00	8.52- 8.58
50		AR1260-E	22.328	20.090	E6	10.0	93	0.00	8.80- 8.86
51	S	Decachlorobiphenyl	146.814	141.843	E6	3.4	100	0.00	9.77- 9.84
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	153.528	E6	-2.0	107	0.00	4.29- 4.35
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	2.567	2.679	E6	-4.4	109	0.00	4.74- 4.80
42		AR1016-B	5.310	5.527	E6	-4.1	107	0.00	5.12- 5.18
43		AR1016-C	12.604	12.743	E6	-1.1	103	0.00	5.63- 5.69
44		AR1016-D	4.611	4.718	E6	-2.3	104	0.00	5.80- 5.86
45		AR1016-E	3.730	3.887	E6	-4.2	108	0.00	6.45- 6.51
46		AR1260-A	11.098	11.589	E6	-4.4	109	0.00	8.45- 8.51
47		AR1260-B	8.556	9.000	E6	-5.2	108	0.00	8.91- 8.97

Continuing Calibration Summary

Job Number: JD91204 **Sample:** GRL399-CC343
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RL17991.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

48		AR1260-C	8.270	8.536	E6	-3.2	110	0.00	9.20- 9.26
49		AR1260-D	18.723	19.230	E6	-2.7	105	0.00	9.41- 9.47
50		AR1260-E	17.416	17.489	E6	-0.4	101	0.00	9.74- 9.80
51	S	Decachlorobiphenyl	112.075	115.392	E6	-3.0	105	0.00	10.69-10.75

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL17092.D pcblvigcrl343.m Mon Jul 01 14:03:27 2024

8.10.24

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Continuing Calibration Summary

Job Number: JD91204 **Sample:** GRL399-CC343
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RL17999.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\la...99\RL17999.D\ECD1A.ch Vial: 73
Signal #2 : C:\msdchem\1\data\laylanie\grl399\RL17999.D\ECD2B.ch
Acq On : 01 Jul 2024 09:37 am Operator: christp
Sample : cc343-100 Inst : GCRL
Misc : op55762,grl399,5.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...\pcblvigcrl343.m (ChemStation Integrator)
Title :
Last Update : Mon Jul 01 06:35:36 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	198.102 E6	9.1	85	0.00	3.89- 3.95
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	3.828	3.253 E6	15.0	84	0.00	4.18- 4.24

Continuing Calibration Summary

Job Number: JD91204 **Sample:** GRL399-CC343
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RL17999.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42		AR1016-B	7.612	6.587	E6	13.5	84	0.00	4.47- 4.53
43		AR1016-C	16.456	13.974	E6	15.1	82	0.00	4.88- 4.94
44		AR1016-D	6.802	5.589	E6	17.8	82	0.00	5.00- 5.06
45		AR1016-E	6.822	5.739	E6	15.9	82	0.00	5.39- 5.46
46		AR1260-A	15.058	12.292	E6	18.4	79	0.00	7.41- 7.47
47		AR1260-B	10.137	8.657	E6	14.6	81	0.00	7.90- 7.96
48		AR1260-C	9.189	8.181	E6	11.0	85	0.00	8.18- 8.25
49		AR1260-D	21.816	19.712	E6	9.6	85	0.00	8.52- 8.58
50		AR1260-E	22.328	19.898	E6	10.9	86	0.00	8.81- 8.87
51	S	Decachlorobiphenyl	146.814	136.377	E6	7.1	92	0.00	9.78- 9.85
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	156.162	E6	-3.7	99	0.00	4.29- 4.35
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	2.567	2.576	E6	-0.4	95	0.00	4.74- 4.80
42		AR1016-B	5.310	5.387	E6	-1.5	97	0.00	5.13- 5.19
43		AR1016-C	12.604	12.441	E6	1.3	94	0.00	5.63- 5.69
44		AR1016-D	4.611	4.598	E6	0.3	95	0.00	5.80- 5.86
45		AR1016-E	3.730	3.825	E6	-2.5	99	0.00	6.45- 6.51
46		AR1260-A	11.098	11.283	E6	-1.7	98	0.00	8.45- 8.51
47		AR1260-B	8.556	8.900	E6	-4.0	99	0.00	8.91- 8.97

8.10.25

8

Continuing Calibration Summary

Job Number: JD91204 **Sample:** GRL399-CC343
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RL17999.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

48		AR1260-C	8.270	8.410	E6	-1.7	101	0.00	9.20- 9.26
49		AR1260-D	18.723	18.602	E6	0.6	96	0.00	9.42- 9.48
50		AR1260-E	17.416	17.284	E6	0.8	96	0.00	9.75- 9.81
51	S	Decachlorobiphenyl	112.075	113.010	E6	-0.8	102	0.01	10.70-10.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL17934.D pcblvigcrl343.m Mon Jul 01 14:23:47 2024

Initial Calibration Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICC8517
Lab FileID: XX2512456.D

Response Factor Report HP G1530A

Method : C:\msdchem\1\methods\PCBXX8517.M (ChemStation Integrator)
Title :
Last Update : Thu May 09 17:39:23 2024
Response via : Initial Calibration

Calibration Files
50 =xx2512453.D 250 =xx2512454.D 500 =xx2512455.D 1000=xx2512456.D
2000=xx2512457.D 3000=xx2512458.D 5000=xx2512459.D 10k =xx2512460.D

Compound	50	250	500	1000	2000	3000	5000	10k	Avg	%RSD
1) Tetrachloro-		1.785	2.023	1.979	1.678	2.038			1.901 E7	8.44
2) AR1221-A				1.482					1.482 E5	0.00
3) AR1221-B				2.368					2.368 E5	0.00
4) AR1221-C				6.564					6.564 E5	0.00
5) AR1221-D				1.051					1.051 E5	0.00
6) AR1221-E				1.355					1.355 E5	0.00
7) AR1232-A				4.242					4.242 E5	0.00
8) AR1232-B				2.714					2.714 E5	0.00
9) AR1232-C				5.842					5.842 E5	0.00
10) AR1232-D				2.073					2.073 E5	0.00
11) AR1232-E				2.094					2.094 E5	0.00
12) AR1242-A				5.222					5.222 E5	0.00
13) AR1242-B				1.228					1.228 E6	0.00
14) AR1242-C				4.400					4.400 E5	0.00
15) AR1242-D				4.876					4.876 E5	0.00
16) AR1242-E				4.462					4.462 E5	0.00
17) AR1248-A				2.441					2.441 E5	0.00
18) AR1248-B				7.784					7.784 E5	0.00
19) AR1248-C				1.062					1.062 E6	0.00
20) AR1248-D				7.342					7.342 E5	0.00
21) AR1248-E				3.706					3.706 E5	0.00
22) AR1248-F				1.296					1.296 E6	0.00
23) AR1248-G				7.899					7.899 E5	0.00
24) AR1254-A				6.373					6.373 E5	0.00
25) AR1254-B				1.146					1.146 E6	0.00
26) AR1254-C				6.340					6.340 E5	0.00
27) AR1254-D				1.215					1.215 E6	0.00
28) AR1254-E				8.455					8.455 E5	0.00
29) AR1254-F				7.945					7.945 E5	0.00
30) AR1254-G				1.155					1.155 E6	0.00
31) AR1262-A				9.650					9.650 E5	0.00
32) AR1262-B				1.317					1.317 E6	0.00
33) AR1262-C				1.112					1.112 E6	0.00
34) AR1262-D				2.554					2.554 E6	0.00
35) AR1262-E				3.075					3.075 E6	0.00
36) AR1268-A				2.880					2.880 E6	0.00
37) AR1268-B				2.781					2.781 E6	0.00
38) AR1268-C				2.440					2.440 E6	0.00
39) AR1268-D				9.235					9.235 E5	0.00
40) AR1268-E				6.804					6.804 E6	0.00
41) AR1016-A	3.930	4.043	4.272	3.932	3.258	3.768	2.872	3.112	3.648 E5	13.75
42) AR1016-B	7.178	6.724	7.006	6.493	5.404	6.268	4.797	5.155	6.128 E5	14.63
43) AR1016-C	1.682	1.547	1.644	1.563	1.334	1.585	1.224	1.323	1.488 E6	11.40
44) AR1016-D	6.831	5.751	5.897	5.512	4.713	5.600	4.298	4.642	5.405 E5	15.21
45) AR1016-E	6.685	6.151	6.521	6.179	5.313	6.385	4.952	5.449	5.954 E5	10.62
46) AR1260-A	1.388	1.323	1.391	1.341	1.169	1.418	1.097	1.173	1.287 E6	9.52
47) AR1260-B	9.086	8.658	9.353	9.014	7.861	9.590	7.463	8.167	8.649 E5	8.70

8.10.26
8

Initial Calibration Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICC8517
Lab FileID: XX2512456.D

48)	AR1260-C	8.475	8.163	8.877	8.602	7.548	9.283	7.221	7.880	8.256	E5	8.36
49)	AR1260-D	2.005	1.964	2.281	2.222	1.954	2.363	1.815	1.881	2.061	E6	9.75
50)	AR1260-E	2.290	2.002	2.406	2.345	2.077	2.577	2.016	2.267	2.248	E6	9.03
51)	Decachlorobi	1.834	1.643	2.069	1.998	1.579	1.949			1.845	E7	10.73

Signal #2

1)	Tetrachloro-		5.881	6.551	6.331	5.375	6.622			6.152	E7	8.48
2)	AR1221-A				3.179					3.179	E5	0.00
3)	AR1221-B				6.541					6.541	E5	0.00
4)	AR1221-C				1.484					1.484	E6	0.00
5)	AR1221-D				4.745					4.745	E5	0.00
6)	AR1221-E				3.559					3.559	E5	0.00
7)	AR1232-A				9.777					9.777	E5	0.00
8)	AR1232-B				7.680					7.680	E5	0.00
9)	AR1232-C				1.543					1.543	E6	0.00
10)	AR1232-D				6.465					6.465	E5	0.00
11)	AR1232-E				4.492					4.492	E5	0.00
12)	AR1242-A				1.597					1.597	E6	0.00
13)	AR1242-B				3.332					3.332	E6	0.00
14)	AR1242-C				1.297					1.297	E6	0.00
15)	AR1242-D				1.023					1.023	E6	0.00
16)	AR1242-E				1.259					1.259	E6	0.00
17)	AR1248-A				7.366					7.366	E5	0.00
18)	AR1248-B				2.064					2.064	E6	0.00
19)	AR1248-C				1.225					1.225	E6	0.00
20)	AR1248-D				1.633					1.633	E6	0.00
21)	AR1248-E				1.575					1.575	E6	0.00
22)	AR1248-F				2.175					2.175	E6	0.00
23)	AR1248-G				2.035					2.035	E6	0.00
24)	AR1254-A				1.879					1.879	E6	0.00
25)	AR1254-B				2.120					2.120	E6	0.00
26)	AR1254-C				1.739					1.739	E6	0.00
27)	AR1254-D				3.620					3.620	E6	0.00
28)	AR1254-E				2.352					2.352	E6	0.00
29)	AR1254-F				2.618					2.618	E6	0.00
30)	AR1254-G				2.471					2.471	E6	0.00
31)	AR1262-A				2.453					2.453	E6	0.00
32)	AR1262-B				3.828					3.828	E6	0.00
33)	AR1262-C				3.114					3.114	E6	0.00
34)	AR1262-D				7.272					7.272	E6	0.00
35)	AR1262-E				7.997					7.997	E6	0.00
36)	AR1268-A				8.109					8.109	E6	0.00
37)	AR1268-B				7.363					7.363	E6	0.00
38)	AR1268-C				6.600					6.600	E6	0.00
39)	AR1268-D				2.321					2.321	E6	0.00
40)	AR1268-E				1.779					1.779	E7	0.00
41)	AR1016-A	0.931	1.053	1.060	0.970	0.801	0.917	0.700	0.756	0.899	E6	14.94
42)	AR1016-B	2.452	2.083	2.169	1.974	1.626	1.868	1.422	1.523	1.890	E6	18.57
43)	AR1016-C	4.900	4.308	4.411	4.205	3.664	4.386	3.387	3.696	4.120	E6	12.07
44)	AR1016-D	2.162	1.737	1.824	1.719	1.478	1.756	1.348	1.473	1.687	E6	15.16
45)	AR1016-E	1.434	1.293	1.411	1.305	1.139	1.367	1.059	1.177	1.273	E6	10.63
46)	AR1260-A	3.369	2.948	3.198	3.118	2.770	3.444	2.695	3.032	3.072	E6	8.66
47)	AR1260-B	2.722	2.511	2.690	2.627	2.331	2.934	2.307	2.670	2.599	E6	8.04
48)	AR1260-C	2.622	2.445	2.638	2.569	2.290	2.861	2.259	2.609	2.537	E6	7.82
49)	AR1260-D	5.988	5.763	6.482	6.458	5.836	7.305	5.748	5.022	6.075	E6	11.13
50)	AR1260-E	5.593	5.637	6.112	5.978	5.360	6.737	5.365	6.402	5.898	E6	8.47
51)	Decachlorobi	3.719	3.706	4.511	4.435	3.547	4.486			4.067	E7	11.16

(#) = Out of Range ### Number of calibration levels exceeded format ###

8.10.26

8

Initial Calibration Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICC8517
Lab FileID: XX2512456.D

PCBXX8517.M Tue May 14 21:36:48 2024

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512469.D

Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\GX...\xx2512469.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\GXX8517\xx2512469.D\ECD2B.CH
Acq On : 06 May 2024 8:27 pm Operator: mahalial
Sample : icv8517-1000 (ar1016/1260) Inst : HP G1530A
Misc : op54039,gxx8517,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M (Chemstation Integrator)
Title :
Last Update : Thu May 09 17:38:07 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	19.007	22.251 E6	-17.1	112	0.00	3.35- 3.41
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A	364.833	409.810 E3	-12.3	104	0.00	3.74- 3.80

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512469.D

42		AR1016-B	612.816	720.081	E3	-17.5	111	0.00	4.17- 4.23
43		AR1016-C	1.488	1.740	E6	-16.9	111	0.00	4.73- 4.79
44		AR1016-D	540.542	610.582	E3	-13.0	111	0.00	4.90- 4.96
45		AR1016-E	595.437	664.350	E3	-11.6	108	0.00	5.43- 5.50
46		AR1260-A	1.287	1.508	E6	-17.2	112	0.00	7.44- 7.50
47		AR1260-B	864.898	817.307	E3	5.5	91	0.00	7.99- 8.05
48		AR1260-C	825.585	810.837	E3	1.8	94	0.00	8.33- 8.40
49		AR1260-D	2.061	2.092	E6	-1.5	94	0.00	8.75- 8.81
50		AR1260-E	2.248	2.115	E6	5.9	90	0.00	9.15- 9.21
51	S	Decachlorobiphenyl	18.451	22.759	E6	-23.3#	114	0.00	10.70-10.77
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	61.519	71.104	E6	-15.6	112	0.00	4.19- 4.25
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	898.532	1030.659	E3	-14.7	106	0.00	4.88- 4.94
42		AR1016-B	1.890	2.178	E6	-15.2	110	0.00	5.46- 5.52
43		AR1016-C	4.120	4.689	E6	-13.8	112	0.00	6.11- 6.17
44		AR1016-D	1.687	1.896	E6	-12.4	110	0.00	6.31- 6.37
45		AR1016-E	1.273	1.429	E6	-12.3	110	0.00	6.99- 7.05
46		AR1260-A	3.072	3.455	E6	-12.5	111	0.00	9.08- 9.14
47		AR1260-B	2.599	2.407	E6	7.4	92	0.00	9.73- 9.79

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512469.D

48		AR1260-C	2.537	2.505 E6	1.3	97	0.00	10.18-10.24
49		AR1260-D	6.075	6.155 E6	-1.3	95	0.00	10.51-10.57
50		AR1260-E	5.898	5.382 E6	8.7	90	0.00	11.07-11.13
51	S	Decachlorobiphenyl	40.672	51.299 E6	-26.1#	116	0.00	12.76-12.82

(#) = Out of Range SPCC's out = 0 CCC's out = 0
xx2512456.D PCBXX8517.M Fri May 10 10:53:34 2024

8.10.27

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512470.D

Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\GX...\xx2512470.D\ECD1A.CH Vial: 20
Signal #2 : C:\MSDCHEM\1\DATA\GXX8517\xx2512470.D\ECD2B.CH
Acq On : 06 May 2024 8:45 pm Operator: mahalial
Sample : icv8517-1000 (ar1221) Inst : HP G1530A
Misc : op54039,gxx8517,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M (Chemstation Integrator)
Title :
Last Update : Thu May 09 17:38:07 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	19.007	19.742 E6	-3.9	100	0.00	3.35- 3.41
2	AR1221-A	148.245	121.459 E3	18.1	82	0.00	2.74- 2.94
3	AR1221-B	236.798	209.146 E3	11.7	88	0.00	3.46- 3.66
4	AR1221-C	656.439	566.504 E3	13.7	86	0.00	3.67- 3.87
5	AR1221-D	105.140	85.017 E3	19.1	81	0.00	4.10- 4.30
6	AR1221-E	135.477	109.234 E3	19.4	81	0.00	4.66- 4.86
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512470.D

42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				
48		AR1260-C		----------NA----------				
49		AR1260-D		----------NA----------				
50		AR1260-E		----------NA----------				
51	S	Decachlorobiphenyl	18.451	19.332 E6	-4.8	97	0.00	10.70-10.77
*****		Signal #2 *****						
1	S	Tetrachloro-m-xylene	61.519	60.606 E6	1.5	96	0.00	4.19- 4.25
2		AR1221-A	317.882	288.268 E3	9.3	91	0.00	3.58- 3.64
3		AR1221-B	654.123	584.076 E3	10.7	89	0.00	4.52- 4.72
4		AR1221-C	1.484	1.319 E6	11.1	89	0.00	4.81- 5.01
5		AR1221-D	474.542	420.342 E3	11.4	89	0.09	5.47- 5.67
6		AR1221-E	355.893	289.394 E3	18.7	81	0.00	6.05- 6.25
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				
42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				

8.10.28

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512470.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	40.672	43.321 E6	-6.5	98	0.00	12.76-12.82

(#) = Out of Range SPCC's out = 0 CCC's out = 0
xx2512456.D PCBXX8517.M Fri May 10 10:53:35 2024

8.10.28

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512471.D

Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\GX...\xx2512471.D\ECD1A.CH Vial: 21
Signal #2 : C:\MSDCHEM\1\DATA\GXX8517\xx2512471.D\ECD2B.CH
Acq On : 06 May 2024 9:03 pm Operator: mahalial
Sample : icv8517-1000 (ar1254) Inst : HP G1530A
Misc : op54039,gxx8517,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M (Chemstation Integrator)
Title :
Last Update : Thu May 09 17:38:07 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	19.007	19.257 E6	-1.3	97	0.00	3.35- 3.41
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A	637.262	619.749 E3	2.7	97	0.00	5.87- 6.07
25	AR1254-B	1.146	1.115 E6	2.7	97	0.00	6.21- 6.41
26	AR1254-C	634.045	619.134 E3	2.4	98	0.00	6.58- 6.78
27	AR1254-D	1.215	1.184 E6	2.6	97	0.00	6.75- 6.95
28	AR1254-E	845.492	820.002 E3	3.0	97	0.00	7.12- 7.32
29	AR1254-F	794.477	791.717 E3	0.3	100	0.00	7.37- 7.57
30	AR1254-G	1.155	1.145 E6	0.9	99	0.00	7.76- 7.96
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512471.D

42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				
48		AR1260-C		----------NA----------				
49		AR1260-D		----------NA----------				
50		AR1260-E		----------NA----------				
51	S	Decachlorobiphenyl	18.451	19.168 E6	-3.9	96	0.00	10.70-10.77
*****		Signal #2 *****						
1	S	Tetrachloro-m-xylene	61.519	60.923 E6	1.0	96	0.00	4.19- 4.25
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A	1.879	1.863 E6	0.9	99	0.00	7.52- 7.72
25		AR1254-B	2.120	2.078 E6	2.0	98	0.00	7.77- 7.97
26		AR1254-C	1.739	1.718 E6	1.2	99	0.00	8.29- 8.49
27		AR1254-D	3.620	3.573 E6	1.3	99	0.00	8.46- 8.66
28		AR1254-E	2.352	2.324 E6	1.2	99	0.00	8.77- 8.97
29		AR1254-F	2.618	2.600 E6	0.7	99	0.04	9.29- 9.49
30		AR1254-G	2.471	2.517 E6	-1.9	102	0.00	9.55- 9.75
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				
42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				

8.10.29

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512471.D

48		AR1260-C				----------NA----------			
49		AR1260-D				----------NA----------			
50		AR1260-E				----------NA----------			
51	S	Decachlorobiphenyl	40.672	42.940	E6	-5.6	97	0.00	12.76-12.82

(#) = Out of Range SPCC's out = 0 CCC's out = 0
xx2512456.D PCBXX8517.M Fri May 10 10:53:36 2024

8.10.29

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512473.D

Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\GX...\xx2512473.D\ECD1A.CH Vial: 23
Signal #2 : C:\MSDCHEM\1\DATA\GXX8517\xx2512473.D\ECD2B.CH
Acq On : 06 May 2024 9:38 pm Operator: mahalial
Sample : icv8517-1000 (ar1262) Inst : HP G1530A
Misc : op54039,gxx8517,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M (Chemstation Integrator)
Title :
Last Update : Thu May 09 17:38:07 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	19.007	20.720 E6	-9.0	105	0.00	3.35- 3.41
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A	964.992	965.750 E3	-0.1	100	0.00	7.37- 7.57
32	AR1262-B	1.317	1.321 E6	-0.3	100	0.00	7.92- 8.12
33	AR1262-C	1.112	1.113 E6	-0.1	100	0.00	8.26- 8.46
34	AR1262-D	2.554	2.568 E6	-0.5	101	0.00	8.69- 8.89
35	AR1262-E	3.075	3.100 E6	-0.8	101	0.00	9.14- 9.34
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A		----------NA----------				

8.10.30

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512473.D

42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				
48		AR1260-C		----------NA----------				
49		AR1260-D		----------NA----------				
50		AR1260-E		----------NA----------				
51	S	Decachlorobiphenyl	18.451	20.704 E6	-12.2	104	0.00	10.70-10.77
*****		Signal #2 *****						
1	S	Tetrachloro-m-xylene	61.519	65.243 E6	-6.1	103	0.00	4.19- 4.25
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A	2.453	2.456 E6	-0.1	100	0.00	9.01- 9.21
32		AR1262-B	3.828	3.834 E6	-0.2	100	0.00	9.67- 9.87
33		AR1262-C	3.114	3.119 E6	-0.2	100	0.00	10.11-10.31
34		AR1262-D	7.272	7.278 E6	-0.1	100	0.00	10.45-10.65
35		AR1262-E	7.997	8.031 E6	-0.4	100	0.00	10.97-11.17
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				
42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512473.D

48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	40.672	46.767 E6	-15.0	105	0.00	12.76-12.82	

(#) = Out of Range SPCC's out = 0 CCC's out = 0
xx2512456.D PCBXX8517.M Fri May 10 10:53:37 2024

8.10.30

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512474.D

Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\GX...\xx2512474.D\ECD1A.CH Vial: 24
Signal #2 : C:\MSDCHEM\1\DATA\GXX8517\xx2512474.D\ECD2B.CH
Acq On : 06 May 2024 9:56 pm Operator: mahalial
Sample : icv8517-1000 (ar1242) Inst : HP G1530A
Misc : op54039,gxx8517,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M (Chemstation Integrator)
Title :
Last Update : Thu May 09 17:38:07 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	19.007	19.754 E6	-3.9	100	0.00	3.35- 3.41
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A	522.165	569.051 E3	-9.0	109	0.00	4.10- 4.30
13	AR1242-B	1.228	1.337 E6	-8.9	109	0.00	4.67- 4.87
14	AR1242-C	440.001	469.324 E3	-6.7	107	0.00	4.84- 5.04
15	AR1242-D	487.604	517.163 E3	-6.1	106	0.00	5.36- 5.56
16	AR1242-E	446.240	466.570 E3	-4.6	105	0.00	5.95- 6.15
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512474.D

42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				
48		AR1260-C		----------NA----------				
49		AR1260-D		----------NA----------				
50		AR1260-E		----------NA----------				
51	S	Decachlorobiphenyl	18.451	19.790 E6	-7.3	99	0.00	10.70-10.77
*****		Signal #2 *****						
1	S	Tetrachloro-m-xylene	61.519	63.161 E6	-2.7	100	0.00	4.19- 4.25
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A	1.597	1.732 E6	-8.5	108	0.00	5.39- 5.59
13		AR1242-B	3.332	3.610 E6	-8.3	108	0.00	6.05- 6.25
14		AR1242-C	1.297	1.469 E6	-13.3	113	0.00	6.24- 6.44
15		AR1242-D	1.023	1.097 E6	-7.2	107	0.00	6.92- 7.12
16		AR1242-E	1.259	1.286 E6	-2.1	102	0.00	7.52- 7.72
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				
42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				

8.10.31

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512474.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	40.672	44.621 E6	-9.7	101	0.00	12.76-12.82

(#) = Out of Range SPCC's out = 0 CCC's out = 0
xx2512456.D PCBXX8517.M Fri May 10 10:53:38 2024

8.10.31

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512476.D

Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\GX...\xx2512476.D\ECD1A.CH Vial: 26
Signal #2 : C:\MSDCHEM\1\DATA\GXX8517\xx2512476.D\ECD2B.CH
Acq On : 06 May 2024 10:31 pm Operator: mahalial
Sample : icv8517-1000 (ar1248) Inst : HP G1530A
Misc : op54039,gxx8517,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M (Chemstation Integrator)
Title :
Last Update : Thu May 09 17:38:07 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	19.007	20.486 E6	-7.8	104	0.00	3.35- 3.41
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A	244.132	260.190 E3	-6.6	107	0.00	4.10- 4.30
18	AR1248-B	778.445	737.621 E3	5.2	95	0.00	4.66- 4.86
19	AR1248-C	1.062	1.129 E6	-6.3	106	0.00	5.10- 5.30
20	AR1248-D	734.161	783.856 E3	-6.8	107	0.00	5.37- 5.57
21	AR1248-E	370.561	402.408 E3	-8.6	109	0.00	5.48- 5.68
22	AR1248-F	1.296	1.400 E6	-8.0	108	0.00	5.95- 6.15
23	AR1248-G	789.945	849.339 E3	-7.5	108	0.00	6.21- 6.41
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512476.D

42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				
48		AR1260-C		----------NA----------				
49		AR1260-D		----------NA----------				
50		AR1260-E		----------NA----------				
51	S	Decachlorobiphenyl	18.451	20.033 E6	-8.6	100	0.00	10.71-10.78
*****		Signal #2 *****						
1	S	Tetrachloro-m-xylene	61.519	64.188 E6	-4.3	101	0.00	4.19- 4.25
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A	736.612	784.442 E3	-6.5	106	0.00	5.39- 5.59
18		AR1248-B	2.064	2.192 E6	-6.2	106	0.00	6.05- 6.25
19		AR1248-C	1.225	1.308 E6	-6.8	107	0.00	6.52- 6.72
20		AR1248-D	1.633	1.727 E6	-5.8	106	0.00	6.92- 7.12
21		AR1248-E	1.575	1.694 E6	-7.6	108	0.00	7.10- 7.30
22		AR1248-F	2.175	2.346 E6	-7.9	108	0.00	7.52- 7.72
23		AR1248-G	2.035	2.175 E6	-6.9	107	0.00	7.86- 8.06
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				
42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				

8.10.32

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512476.D

```
48      AR1260-C                              ----------NA----------
49      AR1260-D                              ----------NA----------
50      AR1260-E                              ----------NA----------
51 S    Decachlorobiphenyl       40.672  44.812 E6 -10.2  101   0.00   12.76-12.82
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    xx2512456.D PCBXX8517.M       Fri May 10 10:53:39 2024
```

8.10.32

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512479.D

Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\GX...\xx2512479.D\ECD1A.CH Vial: 29
Signal #2 : C:\MSDCHEM\1\DATA\GXX8517\xx2512479.D\ECD2B.CH
Acq On : 09 May 2024 12:19 pm Operator: mahalial
Sample : icv8517-1000 (ar1232) Inst : HP G1530A
Misc : op54039,gxx8517,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M (Chemstation Integrator)
Title :
Last Update : Thu May 09 17:38:07 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	19.007	21.349 E6	-12.3	108	0.00	3.35- 3.41
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A	424.203	491.451 E3	-15.9	116	0.00	3.68- 3.88
8	AR1232-B	271.438	319.899 E3	-17.9	118	0.00	4.10- 4.30
9	AR1232-C	584.169	696.507 E3	-19.2	119	0.00	4.66- 4.86
10	AR1232-D	207.325	245.974 E3	-18.6	119	0.00	4.84- 5.04
11	AR1232-E	209.380	250.316 E3	-19.6	120	0.00	5.37- 5.57
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512479.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	18.451	20.384	E6	-10.5	102	0.00	10.70-10.77
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	61.519	66.230	E6	-7.7	105	0.00	4.19- 4.25
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A	977.656	1157.094	E3	-18.4	118	0.00	4.81- 5.01
8		AR1232-B	768.004	901.674	E3	-17.4	117	0.00	5.39- 5.59
9		AR1232-C	1.543	1.836	E6	-19.0	119	0.00	6.04- 6.24
10		AR1232-D	646.464	773.252	E3	-19.6	120	0.00	6.24- 6.44
11		AR1232-E	449.246	537.370	E3	-19.6	120	0.00	6.92- 7.12
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A			----------NA----------				
37		AR1268-B			----------NA----------				
38		AR1268-C			----------NA----------				
39		AR1268-D			----------NA----------				
40		AR1268-E			----------NA----------				
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512479.D

48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	40.672	47.799 E6	-17.5	108	0.00	12.76-12.82	

(#) = Out of Range SPCC's out = 0 CCC's out = 0
xx2512456.D PCBXX8517.M Fri May 10 10:53:40 2024

8.10.33

8

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512481.D

Evaluate Continuing Calibration Report

Signal #1 : C:\MSDCHEM\1\DATA\GX...\xx2512481.D\ECD1A.CH Vial: 31
Signal #2 : C:\MSDCHEM\1\DATA\GXX8517\xx2512481.D\ECD2B.CH
Acq On : 09 May 2024 12:55 pm Operator: mahalial
Sample : icv8517-1000 (ar1268) Inst : HP G1530A
Misc : op54039,gxx8517,1.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M (Chemstation Integrator)
Title :
Last Update : Thu May 09 17:38:07 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	19.007	22.101 E6	-16.3	112	0.00	3.35- 3.41
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A	2.880	3.195 E6	-10.9	111	0.00	9.14- 9.34
37	AR1268-B	2.781	3.087 E6	-11.0	111	0.00	9.19- 9.39
38	AR1268-C	2.440	2.727 E6	-11.8	112	0.00	9.47- 9.67
39	AR1268-D	923.541	1023.330 E3	-10.8	111	0.00	9.95-10.15
40	AR1268-E	6.804	7.558 E6	-11.1	111	0.00	10.36-10.56
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512481.D

42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				
48		AR1260-C		----------NA----------				
49		AR1260-D		----------NA----------				
50		AR1260-E		----------NA----------				
51	S	Decachlorobiphenyl	18.451	58.510 E6	-217.1#	293#	0.00	10.70-10.77
*****		Signal #2 *****						
1	S	Tetrachloro-m-xylene	61.519	68.136 E6	-10.8	108	0.00	4.19- 4.25
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A	8.109	9.069 E6	-11.8	112	0.00	10.97-11.17
37		AR1268-B	7.363	8.258 E6	-12.2	112	0.00	11.04-11.24
38		AR1268-C	6.600	7.381 E6	-11.8	112	0.00	11.42-11.62
39		AR1268-D	2.321	2.585 E6	-11.4	111	0.00	11.81-12.01
40		AR1268-E	17.792	19.886 E6	-11.8	112	0.00	12.29-12.49
41		AR1016-A		----------NA----------				
42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				

Initial Calibration Verification

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8517-ICV8517
Lab FileID: XX2512481.D

```
48      AR1260-C                              ----------NA----------
49      AR1260-D                              ----------NA----------
50      AR1260-E                              ----------NA----------
51 S    Decachlorobiphenyl      40.672 140.112 E6 -244.5# 316#  0.00   12.76-12.82
------------------------------------------------------------------------------
------------------------------------------------------------------------------

   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    xx2512456.D PCBXX8517.M       Fri May 10 10:53:41 2024
```

8.10.34

8

Continuing Calibration Summary

Job Number: JD91204 **Sample:** GXX8562-CC8517
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** XX2513571.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\ky...\xx2513571.D\ECD1A.CH Vial: 52
Signal #2 : C:\msdchem\1\data\kyrae\GXX8562\xx2513571.D\ECD2B.CH
Acq On : 29 Jun 2024 12:36 pm Operator: tilakp
Sample : cc8517-1000 Inst : HP G1530A
Misc : op55741,gxx8562,250,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...8562\PCBXX8517.M (ChemStation Integrator)
Title :
Last Update : Mon Jul 01 01:39:33 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	19.007	26.134 E6	-37.5#	132	0.00	3.32- 3.38
2		AR1221-A		----------	NA	----------		
3		AR1221-B		----------	NA	----------		
4		AR1221-C		----------	NA	----------		
5		AR1221-D		----------	NA	----------		
6		AR1221-E		----------	NA	----------		
7		AR1232-A		----------	NA	----------		
8		AR1232-B		----------	NA	----------		
9		AR1232-C		----------	NA	----------		
10		AR1232-D		----------	NA	----------		
11		AR1232-E		----------	NA	----------		
12		AR1242-A		----------	NA	----------		
13		AR1242-B		----------	NA	----------		
14		AR1242-C		----------	NA	----------		
15		AR1242-D		----------	NA	----------		
16		AR1242-E		----------	NA	----------		
17		AR1248-A		----------	NA	----------		
18		AR1248-B		----------	NA	----------		
19		AR1248-C		----------	NA	----------		
20		AR1248-D		----------	NA	----------		
21		AR1248-E		----------	NA	----------		
22		AR1248-F		----------	NA	----------		
23		AR1248-G		----------	NA	----------		
24		AR1254-A		----------	NA	----------		
25		AR1254-B		----------	NA	----------		
26		AR1254-C		----------	NA	----------		
27		AR1254-D		----------	NA	----------		
28		AR1254-E		----------	NA	----------		
29		AR1254-F		----------	NA	----------		
30		AR1254-G		----------	NA	----------		
31		AR1262-A		----------	NA	----------		
32		AR1262-B		----------	NA	----------		
33		AR1262-C		----------	NA	----------		
34		AR1262-D		----------	NA	----------		
35		AR1262-E		----------	NA	----------		
36		AR1268-A		----------	NA	----------		
37		AR1268-B		----------	NA	----------		
38		AR1268-C		----------	NA	----------		
39		AR1268-D		----------	NA	----------		
40		AR1268-E		----------	NA	----------		
41		AR1016-A	364.833	501.227 E3	-37.4#	127	0.00	3.71- 3.77

Continuing Calibration Summary

Job Number: JD91204 **Sample:** GXX8562-CC8517
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** XX2513571.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42		AR1016-B	612.816	831.826	E3	-35.7# 128	0.00	4.13- 4.19
43		AR1016-C	1.488	2.023	E6	-36.0# 129	0.00	4.69- 4.75
44		AR1016-D	540.542	718.134	E3	-32.9# 130	0.00	4.86- 4.92
45		AR1016-E	595.437	791.205	E3	-32.9# 128	0.00	5.38- 5.45
46		AR1260-A	1.287	1.647	E6	-28.0# 123	0.00	7.38- 7.44
47		AR1260-B	864.898	1083.671	E3	-25.3# 120	0.00	7.93- 7.99
48		AR1260-C	825.585	1013.676	E3	-22.8# 118	0.00	8.26- 8.33
49		AR1260-D	2.061	2.622	E6	-27.2# 118	0.00	8.69- 8.75
50		AR1260-E	2.248	2.802	E6	-24.6# 119	0.00	9.09- 9.15
51	S	Decachlorobiphenyl	18.451	23.423	E6	-26.9# 117	0.00	10.63-10.70
*****		Signal #2 *****						
1	S	Tetrachloro-m-xylene	61.519	75.185	E6	-22.2# 119	0.00	4.18- 4.24
2		AR1221-A	----------NA----------					
3		AR1221-B	----------NA----------					
4		AR1221-C	----------NA----------					
5		AR1221-D	----------NA----------					
6		AR1221-E	----------NA----------					
7		AR1232-A	----------NA----------					
8		AR1232-B	----------NA----------					
9		AR1232-C	----------NA----------					
10		AR1232-D	----------NA----------					
11		AR1232-E	----------NA----------					
12		AR1242-A	----------NA----------					
13		AR1242-B	----------NA----------					
14		AR1242-C	----------NA----------					
15		AR1242-D	----------NA----------					
16		AR1242-E	----------NA----------					
17		AR1248-A	----------NA----------					
18		AR1248-B	----------NA----------					
19		AR1248-C	----------NA----------					
20		AR1248-D	----------NA----------					
21		AR1248-E	----------NA----------					
22		AR1248-F	----------NA----------					
23		AR1248-G	----------NA----------					
24		AR1254-A	----------NA----------					
25		AR1254-B	----------NA----------					
26		AR1254-C	----------NA----------					
27		AR1254-D	----------NA----------					
28		AR1254-E	----------NA----------					
29		AR1254-F	----------NA----------					
30		AR1254-G	----------NA----------					
31		AR1262-A	----------NA----------					
32		AR1262-B	----------NA----------					
33		AR1262-C	----------NA----------					
34		AR1262-D	----------NA----------					
35		AR1262-E	----------NA----------					
36		AR1268-A	----------NA----------					
37		AR1268-B	----------NA----------					
38		AR1268-C	----------NA----------					
39		AR1268-D	----------NA----------					
40		AR1268-E	----------NA----------					
41		AR1016-A	898.532	1182.202	E3	-31.6# 122	0.00	4.87- 4.93
42		AR1016-B	1.890	2.374	E6	-25.6# 120	0.00	5.45- 5.51
43		AR1016-C	4.120	5.246	E6	-27.3# 125	0.00	6.10- 6.16
44		AR1016-D	1.687	2.120	E6	-25.7# 123	0.00	6.29- 6.35
45		AR1016-E	1.273	1.559	E6	-22.5# 120	0.00	6.96- 7.02
46		AR1260-A	3.072	3.573	E6	-16.3 115	0.00	9.05- 9.11
47		AR1260-B	2.599	2.785	E6	-7.2 106	0.00	9.70- 9.76

Continuing Calibration Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GXX8562-CC8517
Lab FileID: XX2513571.D

48		AR1260-C	2.537	2.823	E6	-11.3	110	0.00	10.14-10.20
49		AR1260-D	6.075	7.196	E6	-18.5	111	0.00	10.48-10.54
50		AR1260-E	5.898	6.630	E6	-12.4	111	0.00	11.00-11.06
51	S	Decachlorobiphenyl	40.672	53.374	E6	-31.2#	120	0.00	12.70-12.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
xx2513553.D PCBXX8517.M Mon Jul 01 02:42:29 2024

8.10.35

8

Continuing Calibration Summary

Job Number: JD91204 **Sample:** GXX8562-CC8517
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** XX2513581.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\ky...\xx2513581.D\ECD1A.CH Vial: 59
Signal #2 : C:\msdchem\1\data\kyrae\GXX8562\xx2513581.D\ECD2B.CH
Acq On    : 29 Jun 2024   3:27 pm                    Operator: tilakp
Sample    : cc8517-500                               Inst    : HP G1530A
Misc      : op55745,gxx8562,1000,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\msdchem\1\dat...8562\PCBXX8517.M (ChemStation Integrator)
Title        :
Last Update  : Mon Jul 01 01:39:33 2024
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	19.007	23.008 E6	-21.1#	114	0.00	3.32- 3.38
2	AR1221-A			NA			
3	AR1221-B			NA			
4	AR1221-C			NA			
5	AR1221-D			NA			
6	AR1221-E			NA			
7	AR1232-A			NA			
8	AR1232-B			NA			
9	AR1232-C			NA			
10	AR1232-D			NA			
11	AR1232-E			NA			
12	AR1242-A			NA			
13	AR1242-B			NA			
14	AR1242-C			NA			
15	AR1242-D			NA			
16	AR1242-E			NA			
17	AR1248-A			NA			
18	AR1248-B			NA			
19	AR1248-C			NA			
20	AR1248-D			NA			
21	AR1248-E			NA			
22	AR1248-F			NA			
23	AR1248-G			NA			
24	AR1254-A			NA			
25	AR1254-B			NA			
26	AR1254-C			NA			
27	AR1254-D			NA			
28	AR1254-E			NA			
29	AR1254-F			NA			
30	AR1254-G			NA			
31	AR1262-A			NA			
32	AR1262-B			NA			
33	AR1262-C			NA			
34	AR1262-D			NA			
35	AR1262-E			NA			
36	AR1268-A			NA			
37	AR1268-B			NA			
38	AR1268-C			NA			
39	AR1268-D			NA			
40	AR1268-E			NA			
41	AR1016-A	364.833	468.243 E3	-28.3#	110	0.00	3.71- 3.77

Continuing Calibration Summary

Job Number: JD91204 **Sample:** GXX8562-CC8517
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** XX2513581.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42		AR1016-B	612.816	772.163	E3	-26.0#	110	0.00	4.13- 4.19
43		AR1016-C	1.488	1.822	E6	-22.4#	111	0.00	4.69- 4.75
44		AR1016-D	540.542	663.439	E3	-22.7#	113	0.00	4.86- 4.92
45		AR1016-E	595.437	709.756	E3	-19.2	109	0.00	5.38- 5.45
46		AR1260-A	1.287	1.423	E6	-10.6	102	0.00	7.38- 7.44
47		AR1260-B	864.898	947.054	E3	-9.5	101	0.00	7.93- 7.99
48		AR1260-C	825.585	866.706	E3	-5.0	98	0.00	8.26- 8.33
49		AR1260-D	2.061	2.201	E6	-6.8	96	0.00	8.69- 8.75
50		AR1260-E	2.248	2.430	E6	-8.1	101	0.00	9.09- 9.15
51	S	Decachlorobiphenyl	18.451	21.060	E6	-14.1	102	0.00	10.63-10.70
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	61.519	67.281	E6	-9.4	103	0.00	4.18- 4.24
2		AR1221-A	----------NA----------						
3		AR1221-B	----------NA----------						
4		AR1221-C	----------NA----------						
5		AR1221-D	----------NA----------						
6		AR1221-E	----------NA----------						
7		AR1232-A	----------NA----------						
8		AR1232-B	----------NA----------						
9		AR1232-C	----------NA----------						
10		AR1232-D	----------NA----------						
11		AR1232-E	----------NA----------						
12		AR1242-A	----------NA----------						
13		AR1242-B	----------NA----------						
14		AR1242-C	----------NA----------						
15		AR1242-D	----------NA----------						
16		AR1242-E	----------NA----------						
17		AR1248-A	----------NA----------						
18		AR1248-B	----------NA----------						
19		AR1248-C	----------NA----------						
20		AR1248-D	----------NA----------						
21		AR1248-E	----------NA----------						
22		AR1248-F	----------NA----------						
23		AR1248-G	----------NA----------						
24		AR1254-A	----------NA----------						
25		AR1254-B	----------NA----------						
26		AR1254-C	----------NA----------						
27		AR1254-D	----------NA----------						
28		AR1254-E	----------NA----------						
29		AR1254-F	----------NA----------						
30		AR1254-G	----------NA----------						
31		AR1262-A	----------NA----------						
32		AR1262-B	----------NA----------						
33		AR1262-C	----------NA----------						
34		AR1262-D	----------NA----------						
35		AR1262-E	----------NA----------						
36		AR1268-A	----------NA----------						
37		AR1268-B	----------NA----------						
38		AR1268-C	----------NA----------						
39		AR1268-D	----------NA----------						
40		AR1268-E	----------NA----------						
41		AR1016-A	898.532	1121.745	E3	-24.8#	106	0.00	4.87- 4.93
42		AR1016-B	1.890	2.252	E6	-19.2	104	0.00	5.44- 5.50
43		AR1016-C	4.120	4.754	E6	-15.4	108	0.00	6.10- 6.16
44		AR1016-D	1.687	1.951	E6	-15.6	107	0.00	6.29- 6.35
45		AR1016-E	1.273	1.429	E6	-12.3	101	0.00	6.96- 7.02
46		AR1260-A	3.072	3.105	E6	-1.1	97	0.00	9.05- 9.11
47		AR1260-B	2.599	2.414	E6	7.1	90	0.00	9.70- 9.76

Continuing Calibration Summary

Job Number: JD91204 **Sample:** GXX8562-CC8517
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** XX2513581.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

48		AR1260-C	2.537	2.437 E6	3.9	92	0.00	10.14-10.20
49		AR1260-D	6.075	6.032 E6	0.7	93	0.00	10.48-10.54
50		AR1260-E	5.898	5.848 E6	0.8	96	0.00	11.00-11.06
51	S	Decachlorobiphenyl	40.672	46.105 E6	-13.4	102	0.00	12.71-12.77

(#) = Out of Range SPCC's out = 0 CCC's out = 0
xx2513361.D PCBXX8517.M Mon Jul 01 03:12:00 2024

8.10.36

8

Run Sequence Report

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G1G6859	**Method:** SW846 8081B	**Instrument ID:** GC1G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G1G6859-DDT	1G192510.D	01/29/24 04:36	n/a	DDT/Endrin Breakdown Check
G1G6859-IC6859	1G192513.D	01/29/24 06:02	n/a	Initial cal 1
G1G6859-IC6859	1G192514.D	01/29/24 06:18	n/a	Initial cal 2
G1G6859-IC6859	1G192515.D	01/29/24 06:35	n/a	Initial cal 5
G1G6859-IC6859	1G192516.D	01/29/24 06:51	n/a	Initial cal 10
G1G6859-ICC6859	1G192517.D	01/29/24 07:07	n/a	Initial cal 25
G1G6859-IC6859	1G192518.D	01/29/24 07:23	n/a	Initial cal 50
G1G6859-IC6859	1G192519.D	01/29/24 07:40	n/a	Initial cal 75
G1G6859-IC6859	1G192520.D	01/29/24 07:56	n/a	Initial cal 100
G1G6859-IC6859	1G192521.D	01/29/24 08:12	n/a	Initial cal 500
G1G6859-IC6859	1G192522.D	01/29/24 08:28	n/a	Initial cal 500
G1G6859-ICV6859	1G192523.D	01/29/24 08:45	n/a	Initial cal verification 25
G1G6859-ICV6859	1G192524.D	01/29/24 09:01	n/a	Initial cal verification 500
G1G6859-ICV6859	1G192525.D	01/29/24 09:17	n/a	Initial cal verification 500

Run Sequence Report

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G1G7068	**Method:** SW846 8081B	**Instrument ID:** GC1G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G1G7068-DDT	1G197502.D	06/29/24 07:23	n/a	DDT/Endrin Breakdown Check
G1G7068-CC6859	1G197503.D	06/29/24 07:38	n/a	Continuing cal 50
OP55744-MB1	1G197505.D	06/29/24 08:43	OP55744	Method Blank
OP55744-BS1	1G197506.D	06/29/24 08:58	OP55744	Blank Spike
OP55744-BSD	1G197507.D	06/29/24 09:14	OP55744	Blank Spike Duplicate
JD91204-18	1G197509.D	06/29/24 09:44	OP55744	FB-1
JD91204-19	1G197510.D	06/29/24 10:00	OP55744	FB-2
OP55740-MB1	1G197511.D	06/29/24 10:15	OP55740	Method Blank
OP55740-BS1	1G197512.D	06/29/24 10:30	OP55740	Blank Spike
OP55740-BSD	1G197513.D	06/29/24 10:46	OP55740	Blank Spike Duplicate
ZZZZZZ	1G197515.D	06/29/24 11:16	OP55740	(unrelated sample)
ZZZZZZ	1G197516.D	06/29/24 11:32	OP55740	(unrelated sample)
ZZZZZZ	1G197517.D	06/29/24 11:47	OP55740	(unrelated sample)
ZZZZZZ	1G197518.D	06/29/24 12:02	OP55740	(unrelated sample)
ZZZZZZ	1G197519.D	06/29/24 12:18	OP55740	(unrelated sample)
ZZZZZZ	1G197520.D	06/29/24 12:33	OP55740	(unrelated sample)
ZZZZZZ	1G197521.D	06/29/24 12:52	OP55740	(unrelated sample)
ZZZZZZ	1G197522.D	06/29/24 13:07	OP55740	(unrelated sample)
ZZZZZZ	1G197523.D	06/29/24 13:23	OP55740	(unrelated sample)
ZZZZZZ	1G197524.D	06/29/24 13:38	OP55740	(unrelated sample)
ZZZZZZ	1G197525.D	06/29/24 13:54	OP55740	(unrelated sample)
ZZZZZZ	1G197526.D	06/29/24 14:09	OP55740	(unrelated sample)
ZZZZZZ	1G197527.D	06/29/24 14:24	OP55740	(unrelated sample)
ZZZZZZ	1G197528.D	06/29/24 14:39	OP55740	(unrelated sample)
ZZZZZZ	1G197529.D	06/29/24 14:55	OP55740	(unrelated sample)
ZZZZZZ	1G197530.D	06/29/24 15:10	OP55740	(unrelated sample)
G1G7068-CC6859	1G197532.D	06/29/24 15:41	n/a	Continuing cal 25
OP53777-MB2	1G197534.D	06/29/24 16:12	OP53777	Method Blank
ZZZZZZ	1G197535.D	06/29/24 16:27	OP53777	(unrelated sample)
ZZZZZZ	1G197536.D	06/29/24 16:42	OP53777	(unrelated sample)
ZZZZZZ	1G197537.D	06/29/24 16:58	n/a	(unrelated sample)
OP53899-MB2	1G197538.D	06/29/24 17:13	OP53899	Method Blank
ZZZZZZ	1G197539.D	06/29/24 17:28	OP53899	(unrelated sample)
ZZZZZZ	1G197540.D	06/29/24 17:44	OP53899	(unrelated sample)
ZZZZZZ	1G197541.D	06/29/24 17:59	n/a	(unrelated sample)

Run Sequence Report

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G5G3634	**Method:** SW846 8081B	**Instrument ID:** GC5G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G5G3634-DDT	5G138212.D	06/05/24 08:31	n/a	DDT/Endrin Breakdown Check
G5G3634-IC3634	5G138214.D	06/05/24 09:13	n/a	Initial cal 50
G5G3634-IC3634	5G138215.D	06/05/24 09:34	n/a	Initial cal 50
G5G3634-IC3634	5G138216.D	06/05/24 09:55	n/a	Initial cal 0.1
G5G3634-IC3634	5G138217.D	06/05/24 10:16	n/a	Initial cal 0.2
G5G3634-IC3634	5G138218.D	06/05/24 10:37	n/a	Initial cal 0.5
G5G3634-IC3634	5G138219.D	06/05/24 10:57	n/a	Initial cal 1
G5G3634-ICC3634	5G138220.D	06/05/24 11:18	n/a	Initial cal 2.5
G5G3634-IC3634	5G138221.D	06/05/24 11:39	n/a	Initial cal 5
G5G3634-IC3634	5G138222.D	06/05/24 12:00	n/a	Initial cal 7.5
G5G3634-IC3634	5G138223.D	06/05/24 12:20	n/a	Initial cal 10
G5G3634-ICV3634	5G138224.D	06/05/24 12:41	n/a	Initial cal verification 2.5
G5G3634-ICV3634	5G138225.D	06/05/24 13:02	n/a	Initial cal verification 50
G5G3634-ICV3634	5G138226.D	06/05/24 13:22	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G5G3659	**Method:** SW846 8081B	**Instrument ID:** GC5G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G5G3659-DDT	5G138851.D	06/30/24 23:46	n/a	DDT/Endrin Breakdown Check
G5G3659-CC3634	5G138852.D	07/01/24 00:06	n/a	Continuing cal 5
OP55761-MB1	5G138854.D	07/01/24 00:48	OP55761	Method Blank
OP55761-BS1	5G138855.D	07/01/24 01:09	OP55761	Blank Spike
JD91204-2	5G138859.D	07/01/24 02:33	OP55761	GRID-27
JD91204-3	5G138860.D	07/01/24 02:54	OP55761	GRID-25
JD91204-4	5G138861.D	07/01/24 03:15	OP55761	GRID-16
JD91204-5	5G138862.D	07/01/24 03:36	OP55761	GRID-28
JD91204-6	5G138863.D	07/01/24 03:58	OP55761	GRID-24A
JD91204-7	5G138864.D	07/01/24 04:19	OP55761	GRID-17
JD91204-8	5G138865.D	07/01/24 04:40	OP55761	GRID-14A
JD91204-10	5G138867.D	07/01/24 05:22	OP55761	GRID-2
JD91204-11	5G138868.D	07/01/24 05:43	OP55761	GRID-19
JD91204-12	5G138869.D	07/01/24 06:04	OP55761	GRID-13
JD91204-13	5G138870.D	07/01/24 06:25	OP55761	GRID-1
JD91204-15	5G138872.D	07/01/24 07:07	OP55761	GRID-12A
JD91204-16	5G138873.D	07/01/24 07:28	OP55761	GRID-22A
JD91204-17	5G138874.D	07/01/24 07:49	OP55761	GRID-23

Run Sequence Report

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G5G3661	**Method:** SW846 8081B	**Instrument ID:** GC5G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G5G3661-DDT	5G138885.D	07/01/24 23:53	n/a	DDT/Endrin Breakdown Check
G5G3661-CC3634	5G138887.D	07/02/24 00:35	n/a	Continuing cal 5
OP55814-MB1	5G138889.D	07/02/24 01:16	OP55814	Method Blank
OP55814-BS1	5G138890.D	07/02/24 01:37	OP55814	Blank Spike
OP55814-LB46	5G138891.D	07/02/24 01:58	OP55814	Leachate Blank
OP55814-MS	5G138892.D	07/02/24 02:19	OP55814	Matrix Spike
OP55814-LS46	5G138892.D	07/02/24 02:19	OP55814	Leachate Spike
OP55814-MSD	5G138893.D	07/02/24 02:39	OP55814	Matrix Spike Duplicate
ZZZZZZ	5G138894.D	07/02/24 03:00	OP55814	(unrelated sample)
JD91275-3	5G138895.D	07/02/24 03:21	OP55814	(used for QC only; not part of job JD91204)
ZZZZZZ	5G138896.D	07/02/24 03:42	OP55814	(unrelated sample)
ZZZZZZ	5G138897.D	07/02/24 04:03	OP55814	(unrelated sample)
ZZZZZZ	5G138898.D	07/02/24 04:24	OP55814	(unrelated sample)
ZZZZZZ	5G138899.D	07/02/24 04:45	OP55814	(unrelated sample)
ZZZZZZ	5G138900.D	07/02/24 05:06	OP55814	(unrelated sample)
ZZZZZZ	5G138901.D	07/02/24 05:27	OP55814	(unrelated sample)
ZZZZZZ	5G138902.D	07/02/24 05:47	OP55814	(unrelated sample)
ZZZZZZ	5G138903.D	07/02/24 06:09	OP55814	(unrelated sample)
ZZZZZZ	5G138905.D	07/02/24 06:50	OP55814	(unrelated sample)
ZZZZZZ	5G138906.D	07/02/24 07:11	OP55814	(unrelated sample)
ZZZZZZ	5G138907.D	07/02/24 07:32	OP55814	(unrelated sample)
ZZZZZZ	5G138908.D	07/02/24 07:53	OP55814	(unrelated sample)
JD91204-5	5G138909.D	07/02/24 08:14	OP55761	GRID-28
JD91204-7	5G138910.D	07/02/24 08:35	OP55761	GRID-17
JD91204-10	5G138911.D	07/02/24 08:56	OP55761	GRID-2
OP55761-MS	5G138912.D	07/02/24 09:17	OP55761	Matrix Spike
OP55761-MSD	5G138913.D	07/02/24 09:38	OP55761	Matrix Spike Duplicate
JD91204-1	5G138914.D	07/02/24 09:59	OP55761	GRID-26
JD91204-9	5G138915.D	07/02/24 10:20	OP55761	GRID-15
JD91204-14	5G138916.D	07/02/24 10:41	OP55761	GRID-18

Run Sequence Report

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G5G3662	**Method:** SW846 8081B	**Instrument ID:** GC5G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G5G3662-DDT	5G138920.D	07/02/24 15:14	n/a	DDT/Endrin Breakdown Check
G5G3662-CC3634	5G138921.D	07/02/24 15:35	n/a	Continuing cal 2.5
OP55825-MB1	5G138923.D	07/02/24 16:16	OP55825	Method Blank
OP55825-BS1	5G138924.D	07/02/24 16:37	OP55825	Blank Spike
OP55825-MS	5G138925.D	07/02/24 16:57	OP55825	Matrix Spike
OP55825-MSD	5G138926.D	07/02/24 17:18	OP55825	Matrix Spike Duplicate
JD91383-1	5G138927.D	07/02/24 17:38	OP55825	(used for QC only; not part of job JD91204)
ZZZZZZ	5G138928.D	07/02/24 17:59	OP55825	(unrelated sample)
ZZZZZZ	5G138929.D	07/02/24 18:19	OP55825	(unrelated sample)
ZZZZZZ	5G138930.D	07/02/24 18:40	OP55825	(unrelated sample)
ZZZZZZ	5G138931.D	07/02/24 19:00	OP55825	(unrelated sample)
ZZZZZZ	5G138932.D	07/02/24 19:21	OP55825	(unrelated sample)
ZZZZZZ	5G138933.D	07/02/24 19:41	OP55825	(unrelated sample)
ZZZZZZ	5G138934.D	07/02/24 20:02	OP55825	(unrelated sample)
ZZZZZZ	5G138935.D	07/02/24 20:23	OP55825	(unrelated sample)
ZZZZZZ	5G138936.D	07/02/24 20:43	OP55825	(unrelated sample)
ZZZZZZ	5G138937.D	07/02/24 21:04	OP55825	(unrelated sample)
ZZZZZZ	5G138938.D	07/02/24 22:11	OP55814	(unrelated sample)

Run Sequence Report

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: GRL343	**Method:** SW846 8082A	**Instrument ID:** GCRL

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GRL343-IC343	RL15608.D	04/29/24 02:16	n/a	Initial cal 5
GRL343-IC343	RL15609.D	04/29/24 02:33	n/a	Initial cal 10
GRL343-IC343	RL15610.D	04/29/24 02:50	n/a	Initial cal 25
GRL343-IC343	RL15611.D	04/29/24 03:07	n/a	Initial cal 50
GRL343-ICC343	RL15612.D	04/29/24 03:23	n/a	Initial cal 100
GRL343-IC343	RL15613.D	04/29/24 03:40	n/a	Initial cal 200
GRL343-IC343	RL15614.D	04/29/24 03:57	n/a	Initial cal 300
GRL343-IC343	RL15615.D	04/29/24 04:14	n/a	Initial cal 500
GRL343-IC343	RL15616.D	04/29/24 04:31	n/a	Initial cal 1000
GRL343-IC343	RL15617.D	04/29/24 04:47	n/a	Initial cal 2000
GRL343-ICV343	RL15618.D	04/29/24 05:04	n/a	Initial cal verification 100
GRL343-IC343	RL15619.D	04/29/24 05:21	n/a	Initial cal 100
GRL343-IC343	RL15620.D	04/29/24 05:38	n/a	Initial cal 100
GRL343-IC343	RL15621.D	04/29/24 05:55	n/a	Initial cal 100
GRL343-IC343	RL15622.D	04/29/24 06:12	n/a	Initial cal 100
GRL343-IC343	RL15623.D	04/29/24 06:28	n/a	Initial cal 100
GRL343-IC343	RL15624.D	04/29/24 06:45	n/a	Initial cal 100
GRL343-IC343	RL15625.D	04/29/24 07:02	n/a	Initial cal 100
GRL343-ICV343	RL15626.D	04/29/24 07:19	n/a	Initial cal verification 100
GRL343-ICV343	RL15627.D	04/29/24 07:36	n/a	Initial cal verification 100
GRL343-ICV343	RL15628.D	04/29/24 07:53	n/a	Initial cal verification 100
GRL343-ICV343	RL15629.D	04/29/24 08:09	n/a	Initial cal verification 100
GRL343-ICV343	RL15630.D	04/29/24 08:26	n/a	Initial cal verification 100
GRL343-ICV343	RL15631.D	04/29/24 08:43	n/a	Initial cal verification 100
GRL343-ICV343	RL15632.D	04/29/24 09:00	n/a	Initial cal verification 100

Run Sequence Report

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: GRL399	**Method:** SW846 8082A	**Instrument ID:** GCRL

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GRL399-CC343	RL17970.D	06/30/24 23:22	n/a	Continuing cal 100
OP55762-MB1	RL17972.D	07/01/24 02:04	OP55762	Method Blank
OP55762-BS1	RL17973.D	07/01/24 02:21	OP55762	Blank Spike
OP55762-MS	RL17974.D	07/01/24 02:37	OP55762	Matrix Spike
OP55762-MSD	RL17975.D	07/01/24 02:54	OP55762	Matrix Spike Duplicate
JD91204-1	RL17976.D	07/01/24 03:11	OP55762	GRID-26
JD91204-2	RL17977.D	07/01/24 03:28	OP55762	GRID-27
JD91204-3	RL17978.D	07/01/24 03:44	OP55762	GRID-25
JD91204-4	RL17979.D	07/01/24 04:01	OP55762	GRID-16
JD91204-5	RL17980.D	07/01/24 04:18	OP55762	GRID-28
JD91204-6	RL17981.D	07/01/24 04:35	OP55762	GRID-24A
JD91204-7	RL17982.D	07/01/24 04:51	OP55762	GRID-17
JD91204-8	RL17983.D	07/01/24 05:08	OP55762	GRID-14A
JD91204-9	RL17984.D	07/01/24 05:25	OP55762	GRID-15
JD91204-10	RL17985.D	07/01/24 05:42	OP55762	GRID-2
JD91204-11	RL17986.D	07/01/24 05:59	OP55762	GRID-19
JD91204-12	RL17987.D	07/01/24 06:15	OP55762	GRID-13
JD91204-13	RL17988.D	07/01/24 06:32	OP55762	GRID-1
GRL399-CC343	RL17991.D	07/01/24 07:22	n/a	Continuing cal 50
JD91204-14	RL17993.D	07/01/24 07:56	OP55762	GRID-18
JD91204-15	RL17994.D	07/01/24 08:13	OP55762	GRID-12A
JD91204-16	RL17995.D	07/01/24 08:30	OP55762	GRID-22A
JD91204-17	RL17996.D	07/01/24 08:46	OP55762	GRID-23
GRL399-CC343	RL17999.D	07/01/24 09:37	n/a	Continuing cal 100

Run Sequence Report

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: GXX8517	**Method:** SW846 8082A	**Instrument ID:** GCXX

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GXX8517-IC8517	XX2512453.D	05/06/24 15:44	n/a	Initial cal 50
GXX8517-IC8517	XX2512454.D	05/06/24 16:02	n/a	Initial cal 250
GXX8517-IC8517	XX2512455.D	05/06/24 16:19	n/a	Initial cal 500
GXX8517-ICC8517	XX2512456.D	05/06/24 16:37	n/a	Initial cal 1000
GXX8517-IC8517	XX2512457.D	05/06/24 16:55	n/a	Initial cal 2000
GXX8517-IC8517	XX2512458.D	05/06/24 17:13	n/a	Initial cal 3000
GXX8517-IC8517	XX2512459.D	05/06/24 17:30	n/a	Initial cal 5000
GXX8517-IC8517	XX2512460.D	05/06/24 17:48	n/a	Initial cal 10000
GXX8517-IC8517	XX2512462.D	05/06/24 18:23	n/a	Initial cal 1000
GXX8517-IC8517	XX2512463.D	05/06/24 18:41	n/a	Initial cal 1000
GXX8517-IC8517	XX2512465.D	05/06/24 19:16	n/a	Initial cal 1000
GXX8517-IC8517	XX2512466.D	05/06/24 19:34	n/a	Initial cal 1000
GXX8517-IC8517	XX2512468.D	05/06/24 20:10	n/a	Initial cal 1000
GXX8517-ICV8517	XX2512469.D	05/06/24 20:27	n/a	Initial cal verification 1000
GXX8517-ICV8517	XX2512470.D	05/06/24 20:45	n/a	Initial cal verification 1000
GXX8517-ICV8517	XX2512471.D	05/06/24 21:03	n/a	Initial cal verification 1000
GXX8517-ICV8517	XX2512473.D	05/06/24 21:38	n/a	Initial cal verification 1000
GXX8517-ICV8517	XX2512474.D	05/06/24 21:56	n/a	Initial cal verification 1000
GXX8517-ICV8517	XX2512476.D	05/06/24 22:31	n/a	Initial cal verification 1000
GXX8517-IC8517	XX2512478.D	05/09/24 12:02	n/a	Initial cal 1000
GXX8517-ICV8517	XX2512479.D	05/09/24 12:19	n/a	Initial cal verification 1000
GXX8517-IC8517	XX2512480.D	05/09/24 12:37	n/a	Initial cal 1000
GXX8517-ICV8517	XX2512481.D	05/09/24 12:55	n/a	Initial cal verification 1000

Run Sequence Report

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: GXX8562	**Method:** SW846 8082A	**Instrument ID:** GCXX

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GXX8562-CC8517	XX2513553.D	06/29/24 07:25	n/a	Continuing cal 500
OP55741-MB1	XX2513555.D	06/29/24 07:59	OP55741	Method Blank
OP55741-BS1	XX2513556.D	06/29/24 08:17	OP55741	Blank Spike
OP55741-BSD	XX2513557.D	06/29/24 08:34	OP55741	Blank Spike Duplicate
ZZZZZZ	XX2513558.D	06/29/24 08:52	OP55741	(unrelated sample)
ZZZZZZ	XX2513562.D	06/29/24 10:01	OP55741	(unrelated sample)
ZZZZZZ	XX2513563.D	06/29/24 10:18	OP55741	(unrelated sample)
ZZZZZZ	XX2513564.D	06/29/24 10:36	OP55741	(unrelated sample)
ZZZZZZ	XX2513565.D	06/29/24 10:53	OP55741	(unrelated sample)
ZZZZZZ	XX2513566.D	06/29/24 11:10	OP55741	(unrelated sample)
ZZZZZZ	XX2513567.D	06/29/24 11:27	OP55741	(unrelated sample)
ZZZZZZ	XX2513568.D	06/29/24 11:45	OP55741	(unrelated sample)
GXX8562-CC8517	XX2513571.D	06/29/24 12:36	n/a	Continuing cal 1000
OP55745-MB1	XX2513573.D	06/29/24 13:10	OP55745	Method Blank
OP55745-BS1	XX2513574.D	06/29/24 13:27	OP55745	Blank Spike
OP55745-BSD	XX2513575.D	06/29/24 13:44	OP55745	Blank Spike Duplicate
JD91204-18	XX2513576.D	06/29/24 14:01	OP55745	FB-1
JD91204-19	XX2513577.D	06/29/24 14:18	OP55745	FB-2
ZZZZZZ	XX2513578.D	06/29/24 14:35	OP55745	(unrelated sample)
GXX8562-CC8517	XX2513581.D	06/29/24 15:27	n/a	Continuing cal 500

GC/LC Semi-volatiles

Raw Data

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
07/01/24 11:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\1G7068\
Data File : 1g197509.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2024 9:44 am
Operator : tilakp
Sample : jd91204-18
Misc : op55744,g1g7068,1000,,,5,1
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 00:48:23 2024
Quant Method : C:\msdchem\1\data\kyrae\1G7068\1PST6859a.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 03:52:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.063	1.034	434.8E6	406.7E6	50.000	50.000
27) I 1-bromo-2...	1.063	1.034	434.8E6	406.7E6	50.000	50.000
33) I 1-bromo-2...	1.063	1.034	434.8E6	406.7E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	1.498	1.606	610.3E6	387.6E6	73.301	76.120m
Spiked Amount 40.000	Range 30 - 150		Recovery = 183.25%#		190.30%#	
26) SA Decachlor...	8.174	9.742	440.1E6	414.1E6	51.877	47.817
Spiked Amount 40.000			Recovery = 129.69%		119.54%	
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

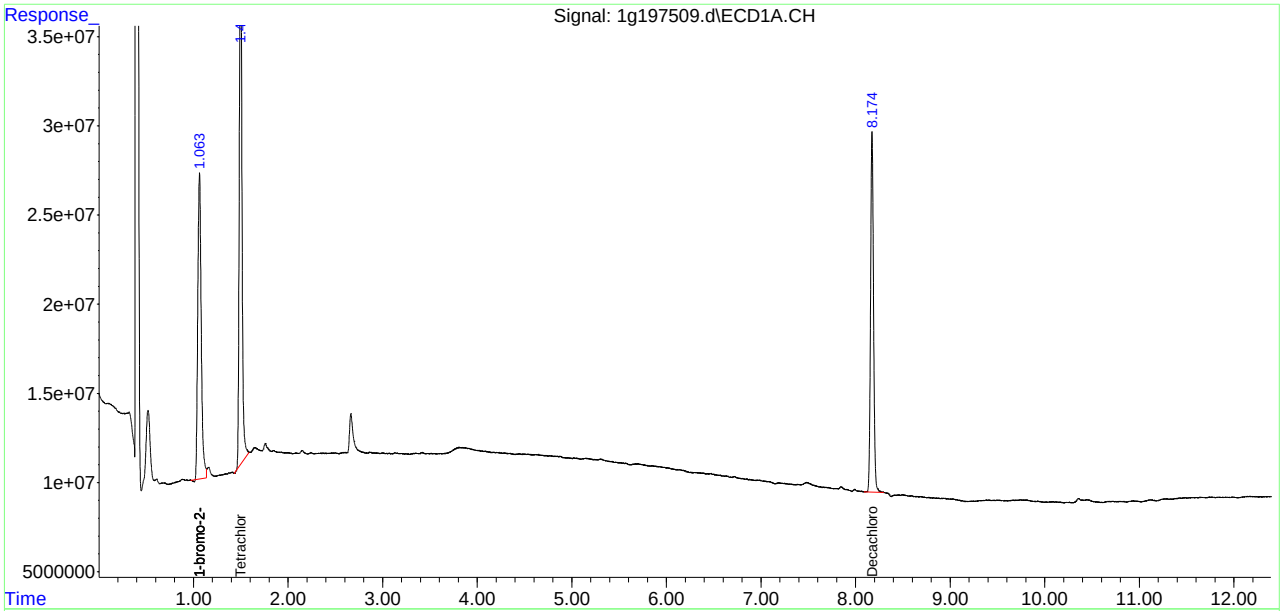
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

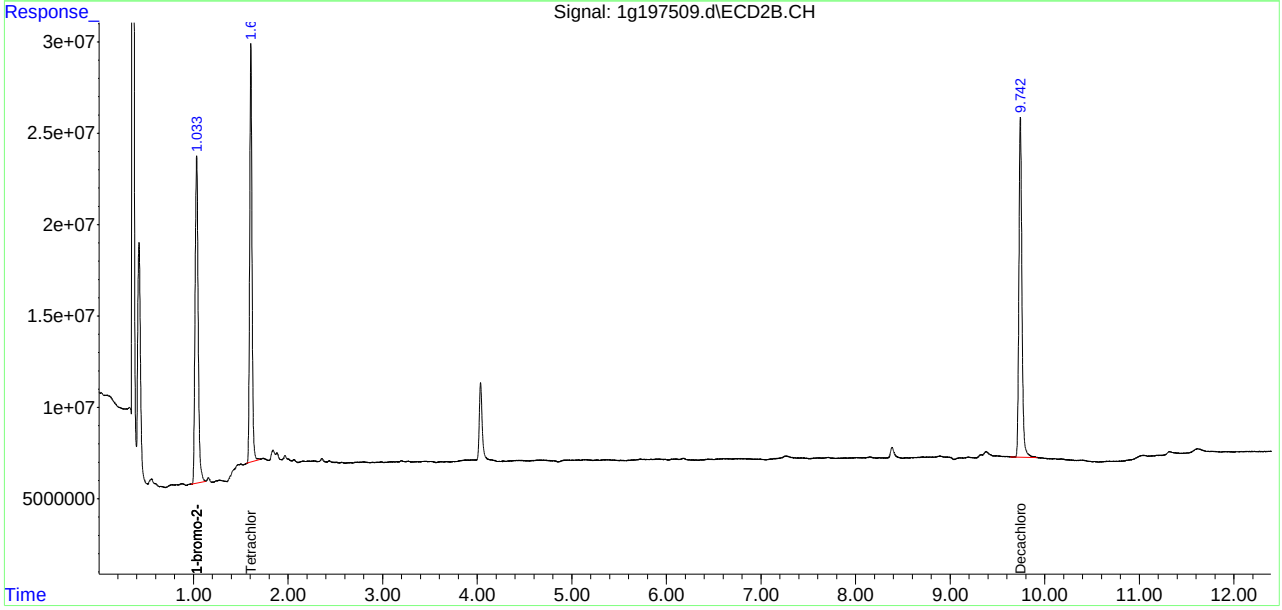
Quantitation Report (QT Reviewed)

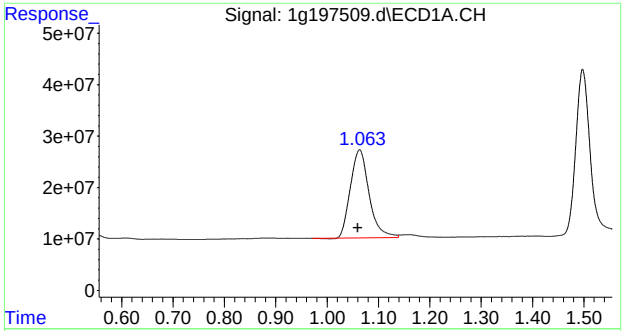
Data Path : C:\msdchem\1\data\1G7068\
Data File : 1g197509.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2024 9:44 am
Operator : tilakp
Sample : jd91204-18
Misc : op55744,g1g7068,1000,,,5,1
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 00:48:23 2024
Quant Method : C:\msdchem\1\data\kyrae\1G7068\1PST6859a.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 03:52:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

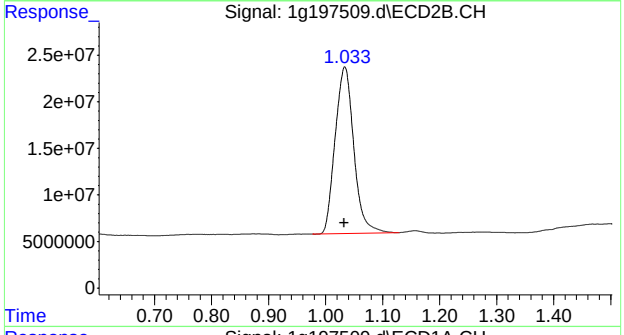






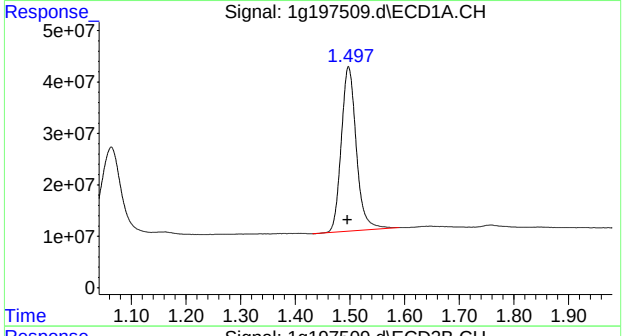
#1 1-bromo-2-nitrobenzene

R.T.: 1.063 min
Delta R.T.: 0.003 min
Response: 434753289
Conc: 50.00 PPB



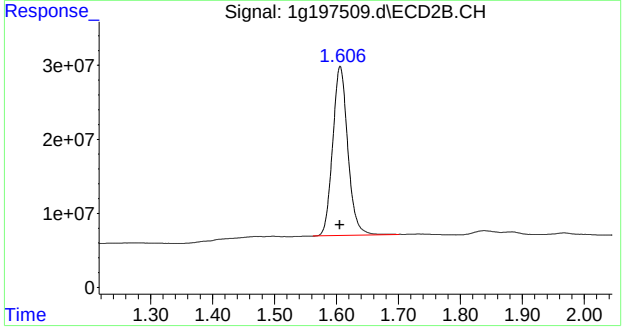
#1 1-bromo-2-nitrobenzene

R.T.: 1.034 min
Delta R.T.: 0.001 min
Response: 406670171
Conc: 50.00 PPB



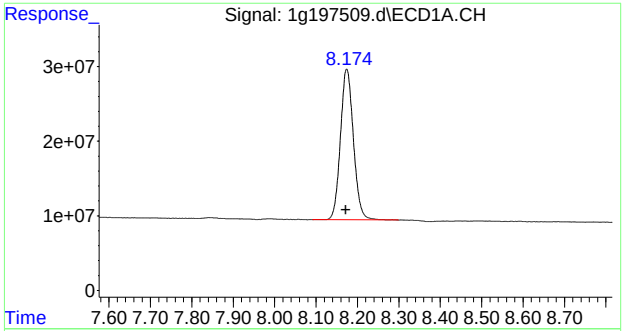
#2 Tetrachloro-m-xylene

R.T.: 1.498 min
Delta R.T.: 0.002 min
Response: 610278152
Conc: 73.30 PPB



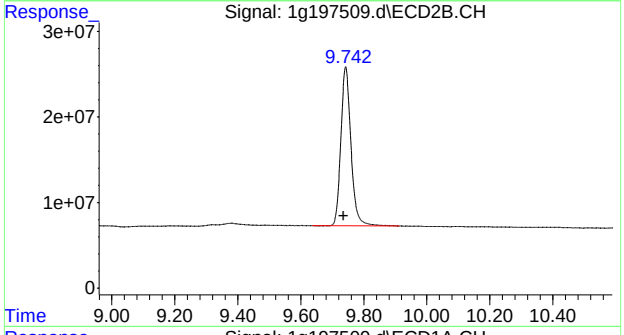
#2 Tetrachloro-m-xylene

R.T.: 1.606 min
Delta R.T.: 0.000 min
Response: 387626151
Conc: 76.12 PPB m



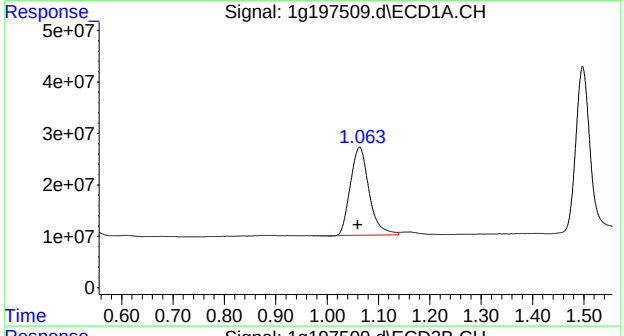
#26 Decachlorobiphenyl

R.T.: 8.174 min
Delta R.T.: 0.003 min
Response: 440119093
Conc: 51.88 PPB



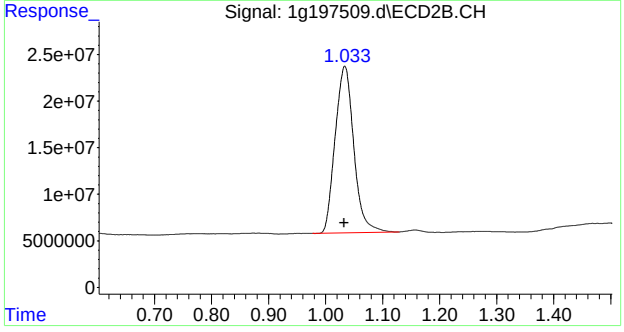
#26 Decachlorobiphenyl

R.T.: 9.742 min
Delta R.T.: 0.007 min
Response: 414147802
Conc: 47.82 PPB



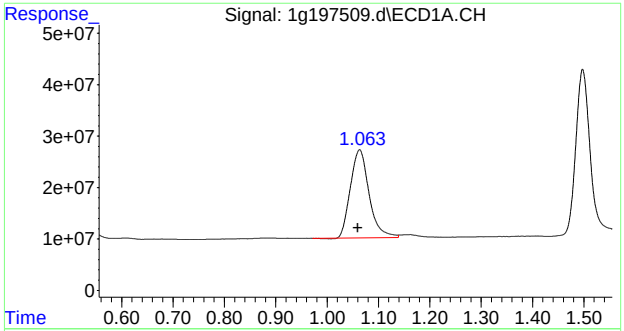
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.063 min
Delta R.T.: 0.004 min
Response: 434753289
Conc: 50.00 PPB



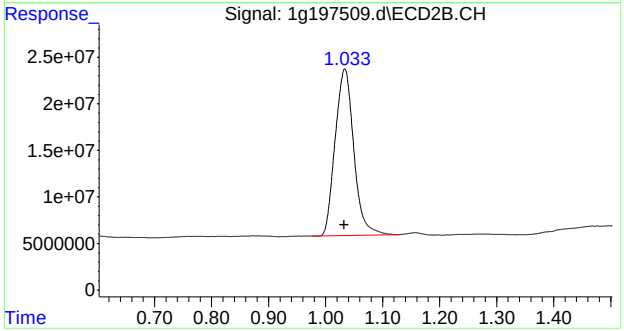
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.034 min
Delta R.T.: 0.001 min
Response: 406670171
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.063 min
Delta R.T.: 0.004 min
Response: 434753289
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.034 min
Delta R.T.: 0.001 min
Response: 406670171
Conc: 50.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
07/01/24 11:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\1G7068\
Data File : 1g197510.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2024 10:00 am
Operator : tilakp
Sample : jd91204-19
Misc : op55744,g1g7068,1000,,,5,1
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 00:49:36 2024
Quant Method : C:\msdchem\1\data\kyrae\1G7068\1PST6859a.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 03:52:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.062	1.034	392.9E6	360.3E6	50.000m	50.000
27) I 1-bromo-2...	1.062	1.034	392.6E6	360.3E6	50.000m	50.000
33) I 1-bromo-2...	1.062	1.034	392.6E6	360.3E6	50.000m	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	1.498	1.606	477.4E6	300.3E6	63.443	66.557
Spiked Amount 40.000	Range 30 - 150		Recovery = 158.61%#		166.39%#	
26) SA Decachlor...	8.174	9.740	311.0E6	291.1E6	40.562	37.939
Spiked Amount 40.000			Recovery = 101.40%		94.85%	
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

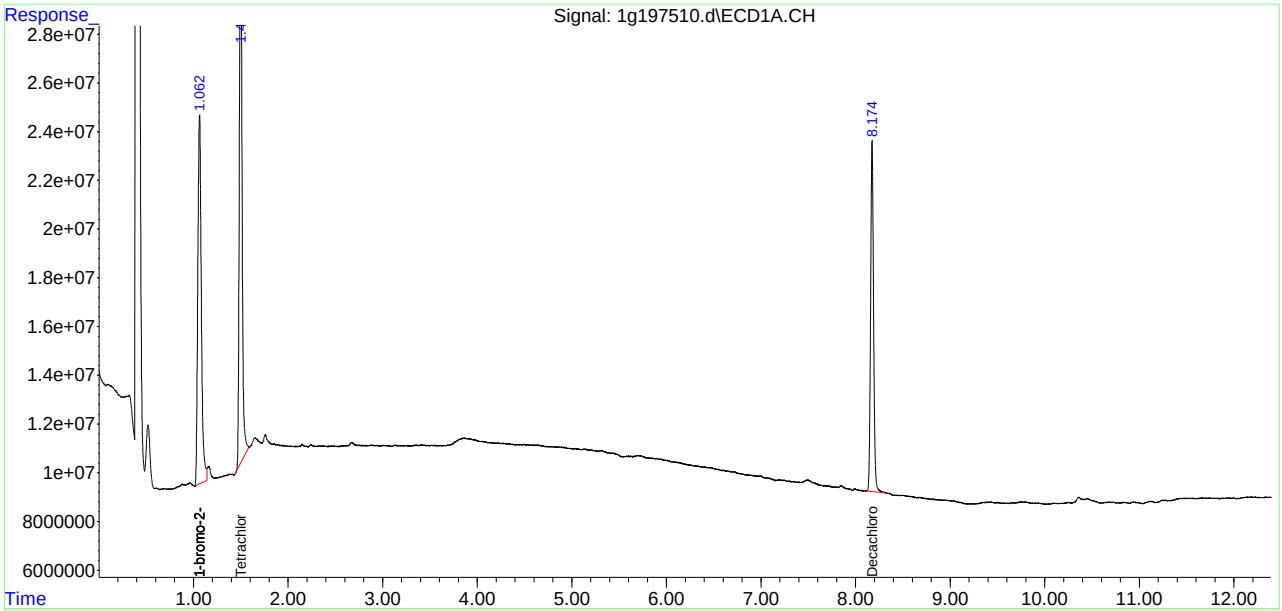
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

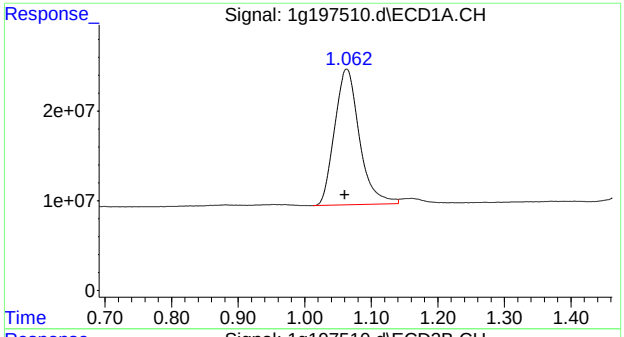
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\1G7068\
Data File : 1g197510.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2024 10:00 am
Operator : tilakp
Sample : jd91204-19
Misc : op55744,g1g7068,1000,,,5,1
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 00:49:36 2024
Quant Method : C:\msdchem\1\data\kyrae\1G7068\1PST6859a.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 03:52:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

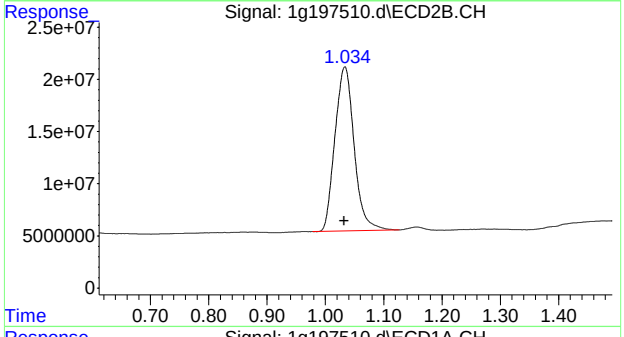
Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





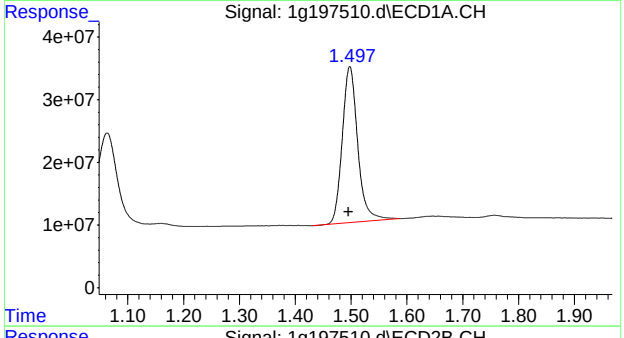
#1 1-bromo-2-nitrobenzene

R.T.: 1.062 min
Delta R.T.: 0.002 min
Response: 392948244
Conc: 50.00 PPB m



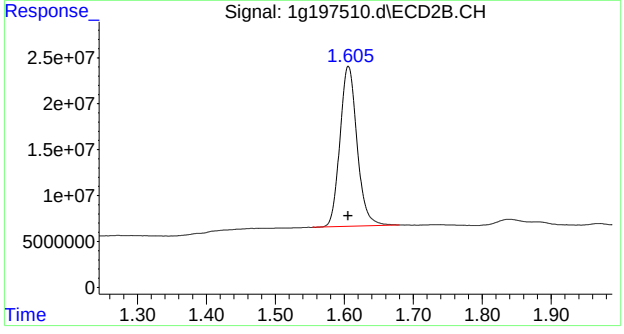
#1 1-bromo-2-nitrobenzene

R.T.: 1.034 min
Delta R.T.: 0.002 min
Response: 360289630
Conc: 50.00 PPB



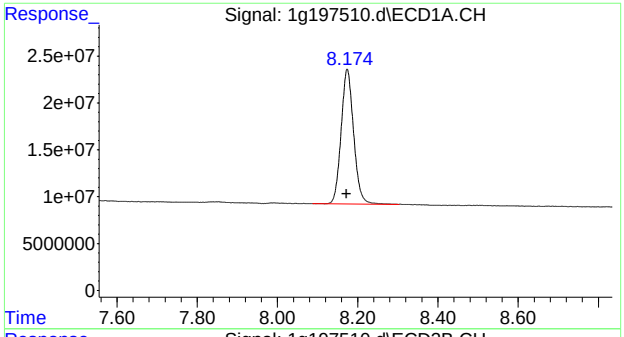
#2 Tetrachloro-m-xylene

R.T.: 1.498 min
Delta R.T.: 0.002 min
Response: 477408316
Conc: 63.44 PPB



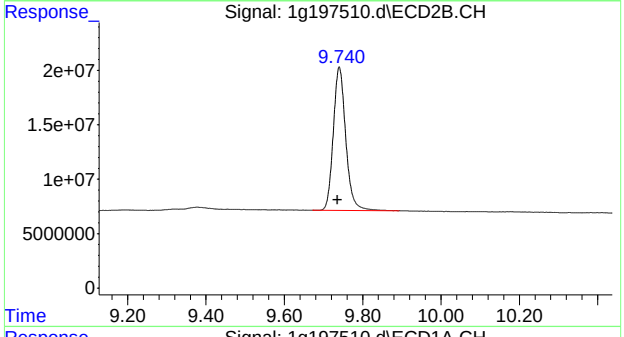
#2 Tetrachloro-m-xylene

R.T.: 1.606 min
Delta R.T.: 0.000 min
Response: 300276709
Conc: 66.56 PPB



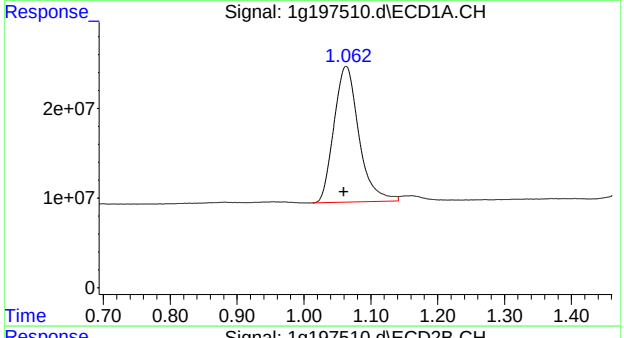
#26 Decachlorobiphenyl

R.T.: 8.174 min
Delta R.T.: 0.003 min
Response: 311036729
Conc: 40.56 PPB



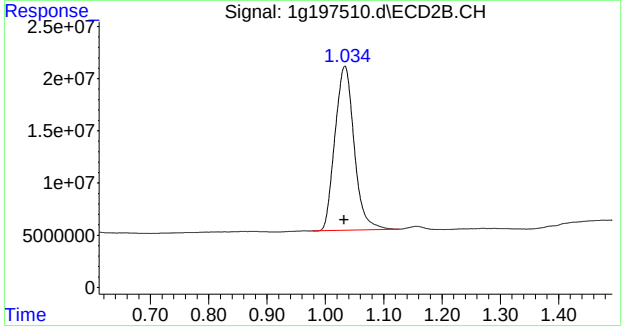
#26 Decachlorobiphenyl

R.T.: 9.740 min
Delta R.T.: 0.005 min
Response: 291120212
Conc: 37.94 PPB



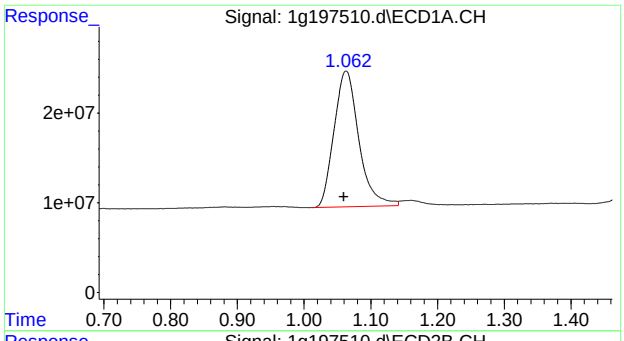
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.062 min
Delta R.T.: 0.003 min
Response: 392610733
Conc: 50.00 PPB m



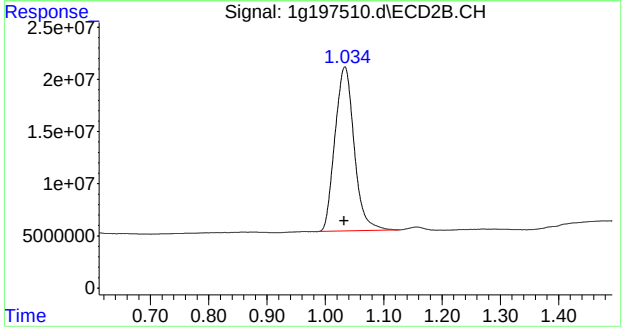
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.034 min
Delta R.T.: 0.002 min
Response: 360289630
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.062 min
Delta R.T.: 0.003 min
Response: 392615219
Conc: 50.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.034 min
Delta R.T.: 0.002 min
Response: 360289630
Conc: 50.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 10:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\gxx8562\
Data File : xx2513576.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2024 2:01 pm
Operator : tilakp
Sample : jd91204-18
Misc : op55745,gxx8562,1000,,,5,1
ALS Vial : 56 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 23:04:16 2024
Quant Method : C:\msdchem\1\data\kyrae\GXX8562\PCBXX8517.M
Quant Title :
QLast Update : Mon Jul 01 01:39:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1)	S Tetrachlo...	3.349	4.207	1344.7E6	3703.5E6	70.751	60.201
	Spiked Amount 40.000			Recovery	=	176.88%	150.50%
51)	S Decachlor...	10.663	12.738	693.5E6	1529.1E6	37.584m	37.595m
	Spiked Amount 40.000			Recovery	=	93.96%	93.99%
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.1.3

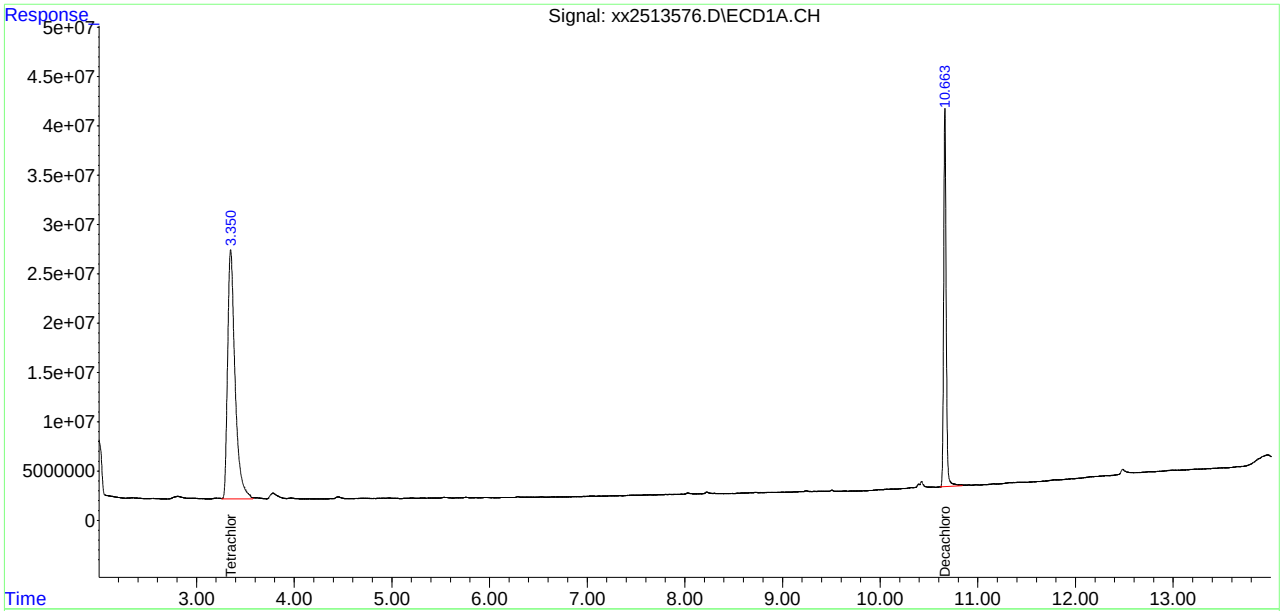
9

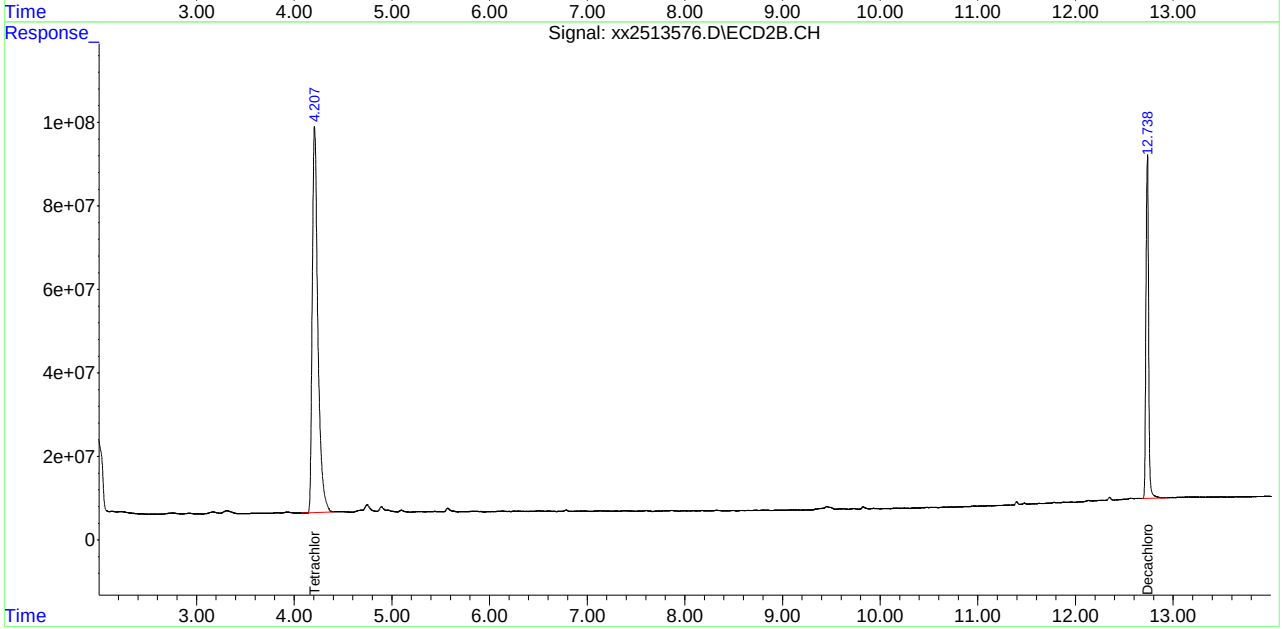
Quantitation Report (QT Reviewed)

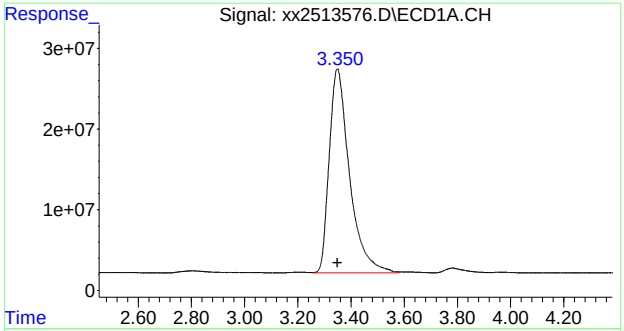
Data Path : C:\msdchem\1\data\gxx8562\
Data File : xx2513576.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2024 2:01 pm
Operator : tilakp
Sample : jd91204-18
Misc : op55745,gxx8562,1000,,,5,1
ALS Vial : 56 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 23:04:16 2024
Quant Method : C:\msdchem\1\data\kyrae\GXX8562\PCBXX8517.M
Quant Title :
QLast Update : Mon Jul 01 01:39:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

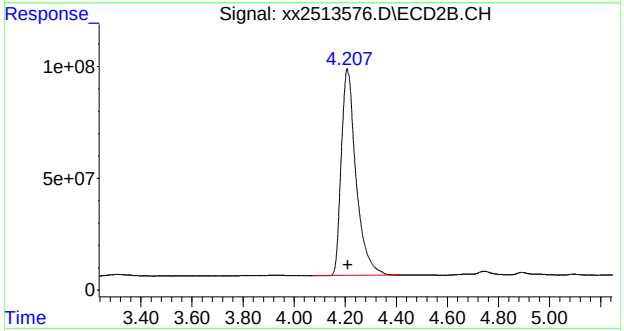






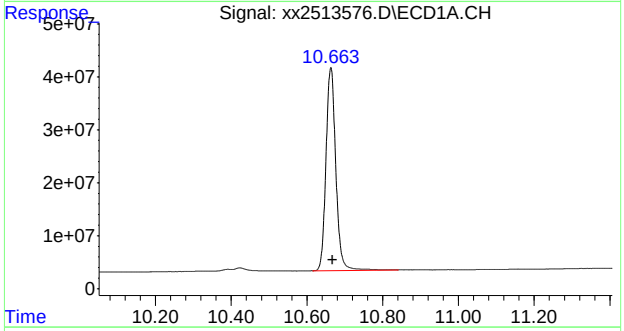
#1 Tetrachloro-m-xylene

R.T.: 3.349 min
Delta R.T.: 0.000 min
Response: 1344729160
Conc: 70.75 ppb



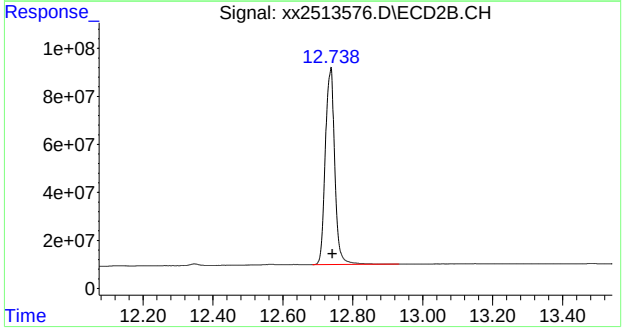
#1 Tetrachloro-m-xylene

R.T.: 4.207 min
Delta R.T.: -0.003 min
Response: 3703480337
Conc: 60.20 ppb



#51 Decachlorobiphenyl

R.T.: 10.663 min
Delta R.T.: -0.004 min
Response: 693473004
Conc: 37.58 ppb m



#51 Decachlorobiphenyl

R.T.: 12.738 min
Delta R.T.: -0.004 min
Response: 1529062329
Conc: 37.59 ppb m

9.1.3

9

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
07/01/24 10:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\gxx8562\
Data File : xx2513577.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2024 2:18 pm
Operator : tilakp
Sample : jd91204-19
Misc : op55745,gxx8562,1000,,,5,1
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 23:05:32 2024
Quant Method : C:\msdchem\1\data\kyrae\GXX8562\PCBXX8517.M
Quant Title :
QLast Update : Mon Jul 01 01:39:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.351	4.207	1041.1E6	2890.6E6	54.776	46.987
	Spiked Amount 40.000			Recovery	=	136.94%	117.47%
51) S	Decachlor...	10.662	12.736	489.8E6	1075.9E6	26.548m	26.454
	Spiked Amount 40.000			Recovery	=	66.37%	66.14%
	Target Compounds						

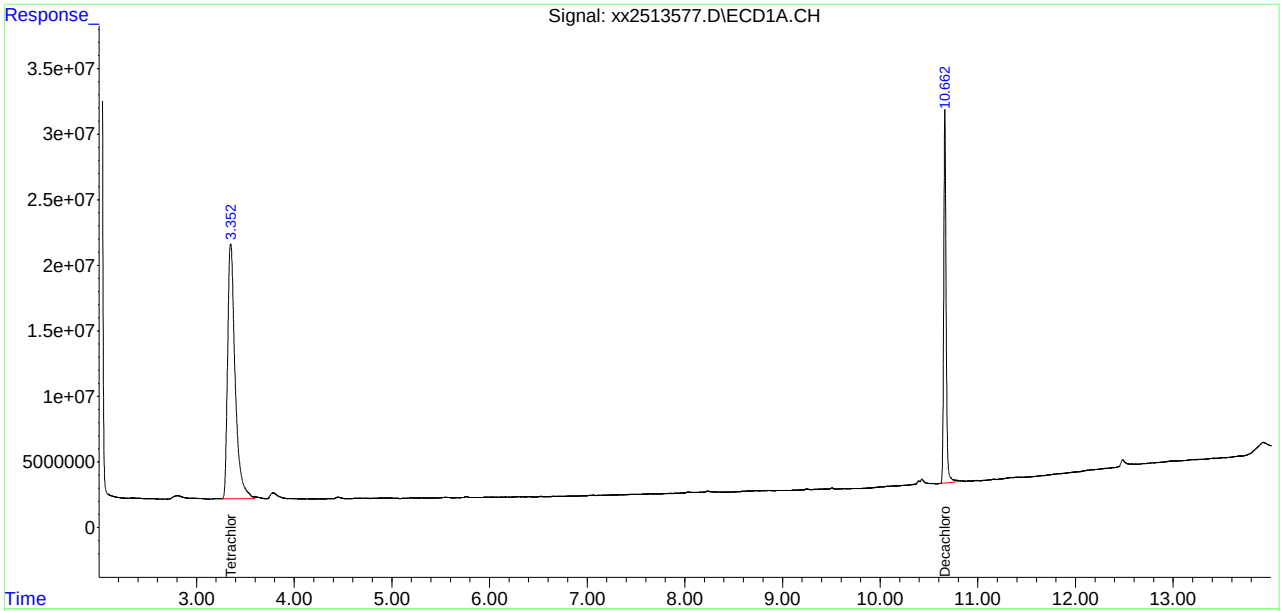
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

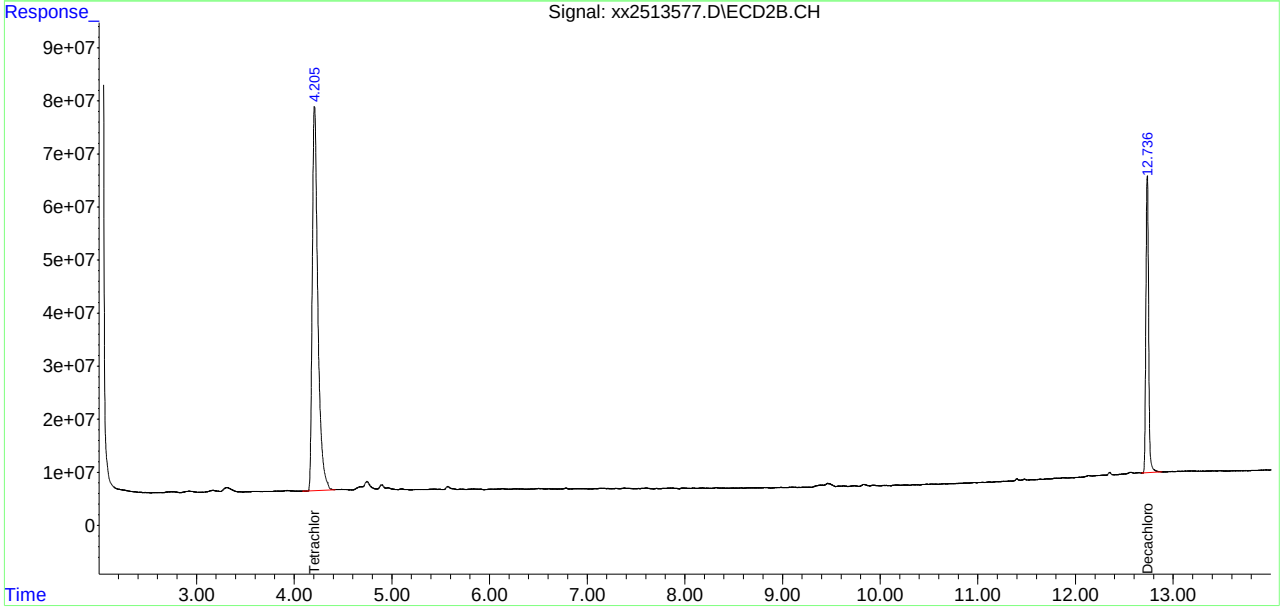
Quantitation Report (QT Reviewed)

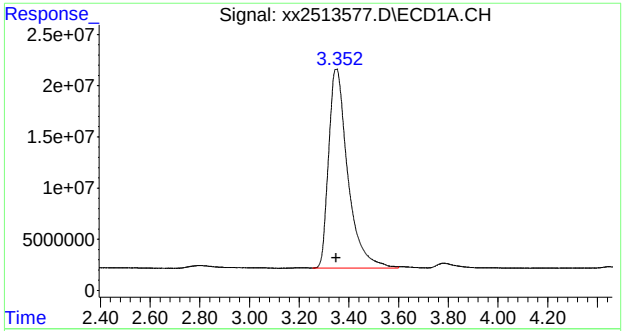
Data Path : C:\msdchem\1\data\gxx8562\
Data File : xx2513577.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2024 2:18 pm
Operator : tilakp
Sample : jd91204-19
Misc : op55745,gxx8562,1000,,,5,1
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 23:05:32 2024
Quant Method : C:\msdchem\1\data\kyrae\GXX8562\PCBXX8517.M
Quant Title :
QLast Update : Mon Jul 01 01:39:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

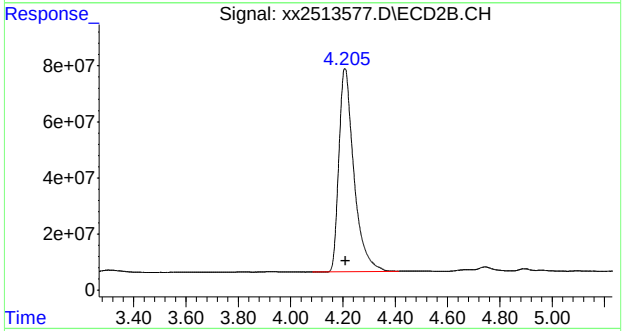






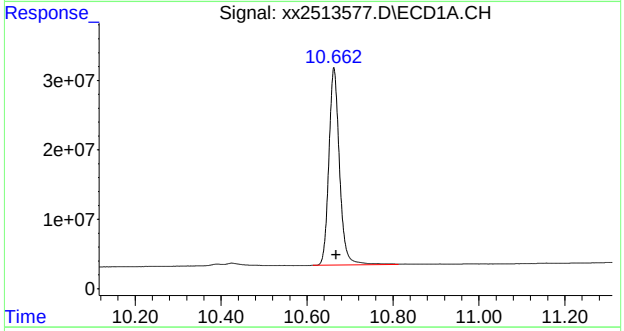
#1 Tetrachloro-m-xylene

R.T.: 3.351 min
Delta R.T.: 0.002 min
Response: 1041093154
Conc: 54.78 ppb



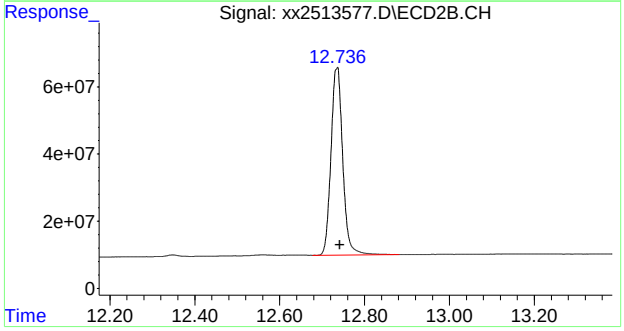
#1 Tetrachloro-m-xylene

R.T.: 4.207 min
Delta R.T.: -0.003 min
Response: 2890603759
Conc: 46.99 ppb



#51 Decachlorobiphenyl

R.T.: 10.662 min
Delta R.T.: -0.005 min
Response: 489832267
Conc: 26.55 ppb m



#51 Decachlorobiphenyl

R.T.: 12.736 min
Delta R.T.: -0.006 min
Response: 1075943024
Conc: 26.45 ppb

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
07/02/24 13:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\carlos\g5g3661\
Data File : 5G138914.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 9:59 am
Operator : christp
Sample : jd91204-1 m
Misc : op55761,G5G3661,5.2,,,10,1
ALS Vial : 77 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 16:23:26 2024
Quant Method : C:\msdchem\1\data\carlos\g5g3661\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Tue Jul 02 07:23:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.609	4.909	1685.0E6	2040.1E6	5.000m	5.000m
27)	I 1-bromo-2...	4.609	4.909	1693.5E6	2035.5E6	5.000m	5.000m
33)	I 1-bromo-2...	4.609	4.909	1686.4E6	2036.8E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.241	5.727	430.9E6	1173.3E6	2.372m	2.155m
	Spiked Amount 40.000	Range 30 - 150		Recovery =		5.93%#	5.39%#
26)	SA Decachlor...	12.474f	14.177	8644.9E6	1078.0E6	17.719m	2.657m#
	Spiked Amount 40.000			Recovery =		44.30%	6.64%
	Target Compounds						
4)	A alpha-BHC	5.712	6.361	56983559	71918461	0.089m	0.081m
5)	MA gamma-BHC	6.000	6.755	34344315	242.2E6	0.062m	0.306m#
8)	B delta-BHC	6.269	7.244	90772125	73857124	0.140m	0.095m#
11)	B Heptachlo...	7.498	8.543	138.7E6	161.0E6	0.261m	0.240m
12)	B gamma-Chl...	7.650	8.817	910.2E6	510.9E6	1.600m	0.724m#
13)	B alpha-Chl...	7.808	9.039	1366.8E6	569.4E6	2.542m	0.829m#
15)	B 4,4'-DDE	7.931	9.306	1136.4E6	313.2E6	2.357m	0.501 #
16)	MA Dieldrin	8.306	9.532	265.0E6	91456635	0.468m	0.139m#
18)	A 4,4'-DDD	8.747	10.228	253.5E6	187.9E6	0.606m	0.472m
20)	MA 4,4'-DDT	9.152	10.748	1368.2E6	1117.2E6	3.571m	2.680
	SemiQuant Compounds - Not Calibrated on this Instrument						

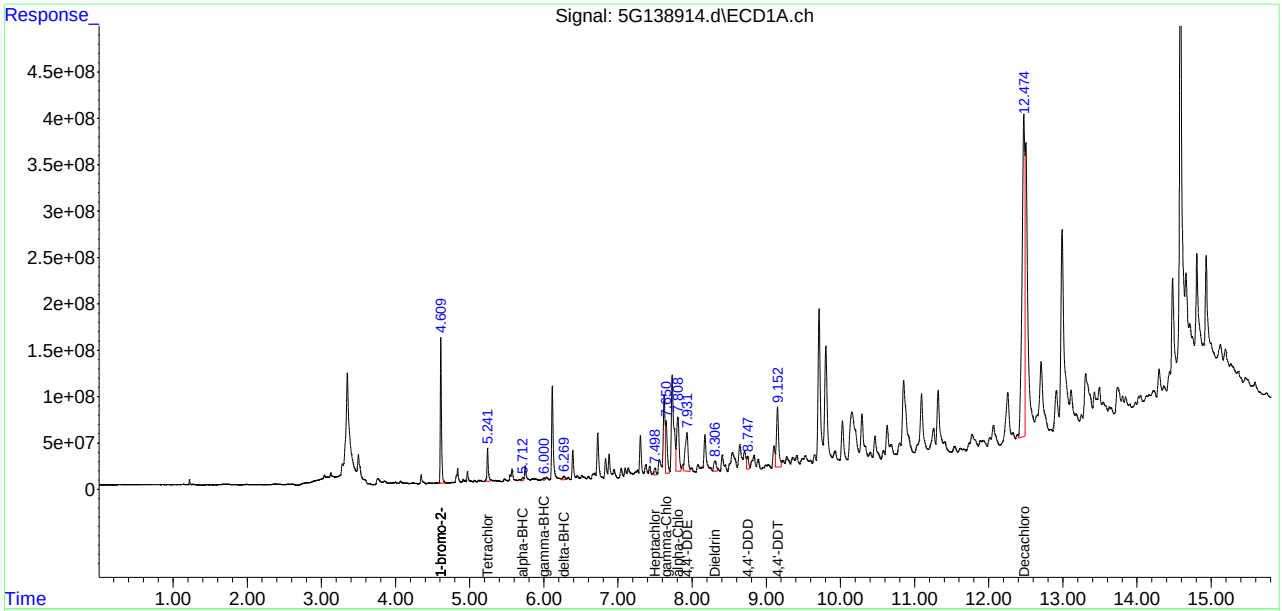
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

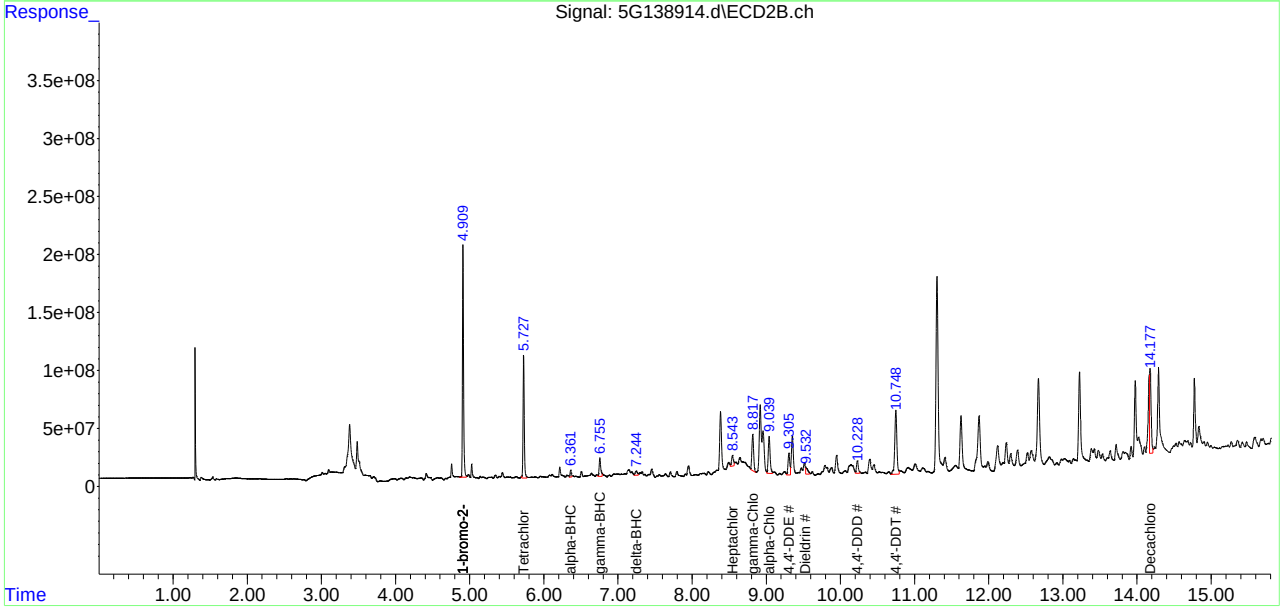
Quantitation Report (QT Reviewed)

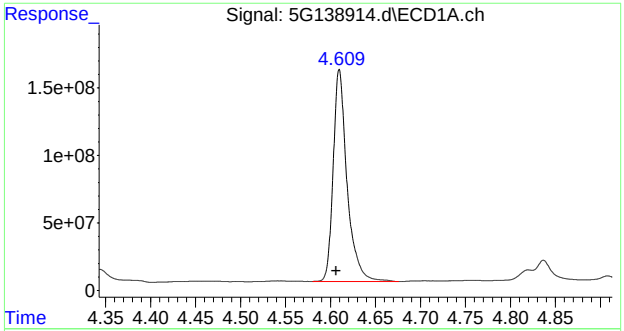
Data Path : C:\msdchem\1\data\carlos\g5g3661\
Data File : 5G138914.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 9:59 am
Operator : christp
Sample : jd91204-1 m
Misc : op55761,G5G3661,5.2,,,10,1
ALS Vial : 77 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 16:23:26 2024
Quant Method : C:\msdchem\1\data\carlos\g5g3661\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Tue Jul 02 07:23:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

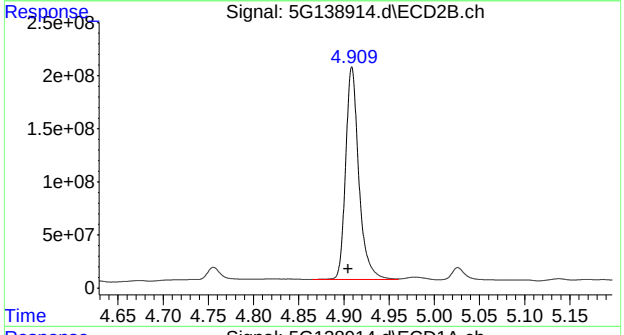






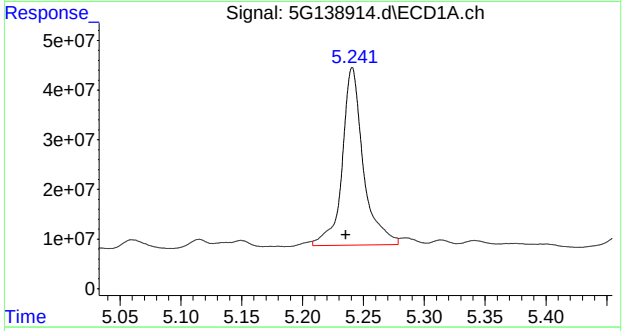
#1 1-bromo-2-nitrobenzene

R.T.: 4.609 min
Delta R.T.: 0.003 min
Response: 1685003993
Conc: 5.00 PPB m



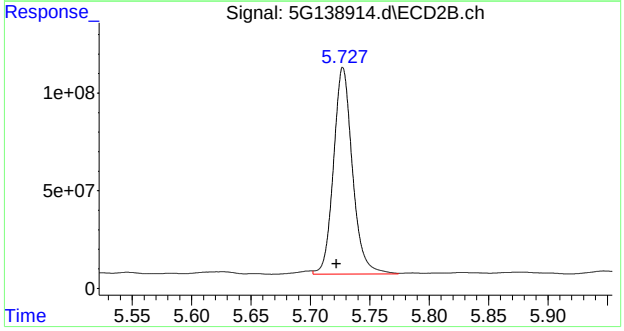
#1 1-bromo-2-nitrobenzene

R.T.: 4.909 min
Delta R.T.: 0.004 min
Response: 2040126357
Conc: 5.00 PPB m



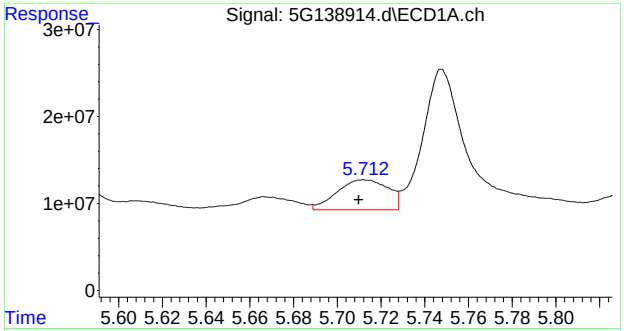
#2 Tetrachloro-m-xylene

R.T.: 5.241 min
Delta R.T.: 0.005 min
Response: 430942147
Conc: 2.37 PPB m



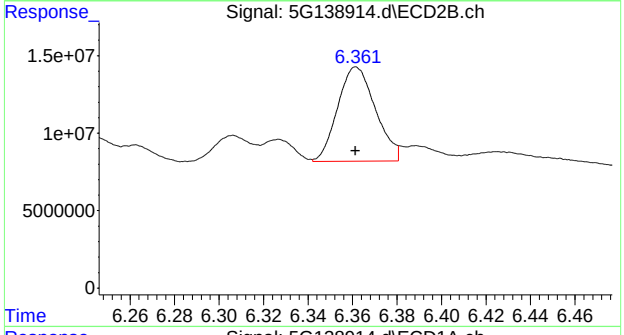
#2 Tetrachloro-m-xylene

R.T.: 5.727 min
Delta R.T.: 0.005 min
Response: 1173343063
Conc: 2.16 PPB m



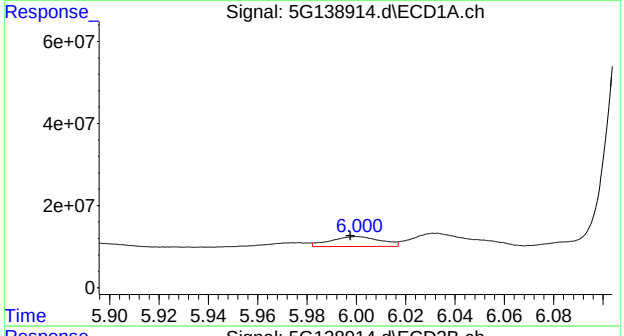
#4 alpha-BHC

R.T.: 5.712 min
Delta R.T.: 0.002 min
Response: 56983559
Conc: 0.09 PPB m



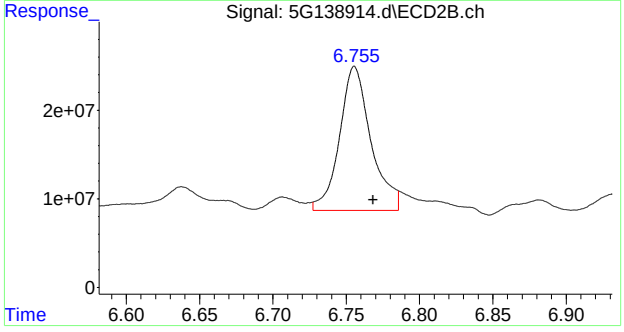
#4 alpha-BHC

R.T.: 6.361 min
Delta R.T.: 0.000 min
Response: 71918461
Conc: 0.08 PPB m



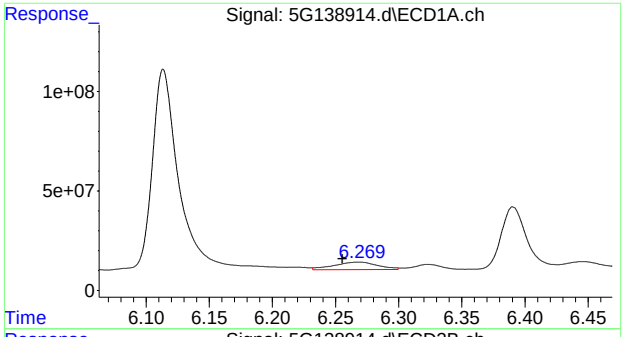
#5 gamma-BHC

R.T.: 6.000 min
Delta R.T.: 0.003 min
Response: 34344315
Conc: 0.06 PPB m



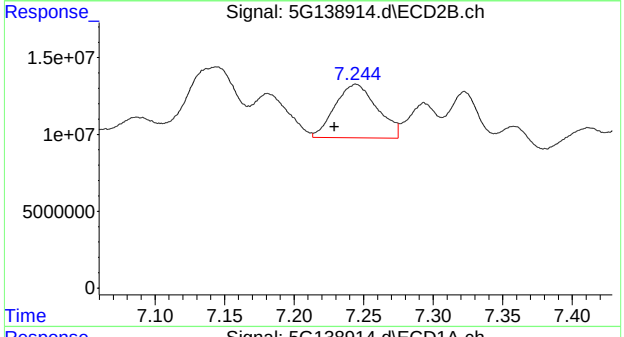
#5 gamma-BHC

R.T.: 6.755 min
Delta R.T.: -0.013 min
Response: 242186463
Conc: 0.31 PPB m



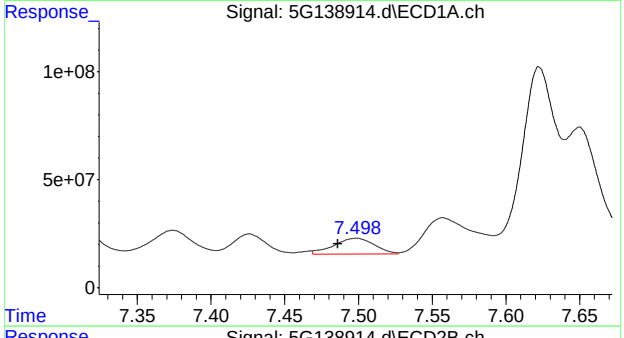
#8 delta-BHC

R.T.: 6.269 min
Delta R.T.: 0.014 min
Response: 90772125
Conc: 0.14 PPB m



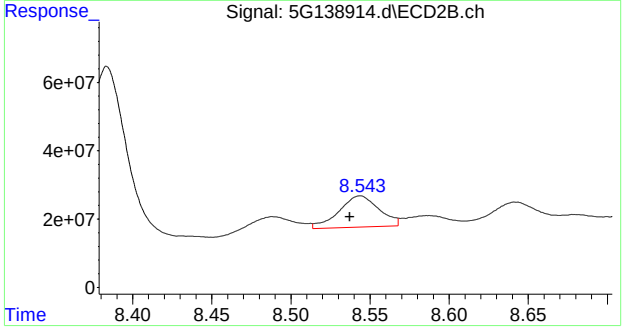
#8 delta-BHC

R.T.: 7.244 min
Delta R.T.: 0.015 min
Response: 73857124
Conc: 0.10 PPB m



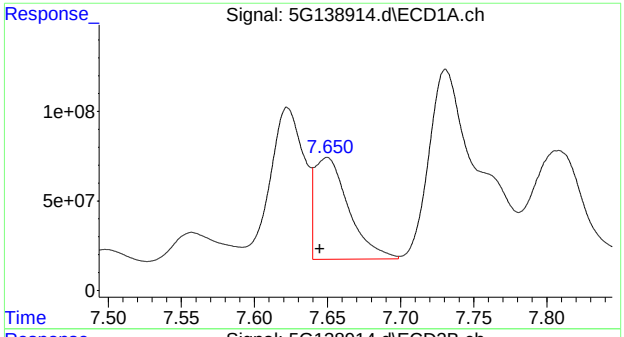
#11 Heptachlor Epoxide

R.T.: 7.498 min
Delta R.T.: 0.012 min
Response: 138728245
Conc: 0.26 PPB m



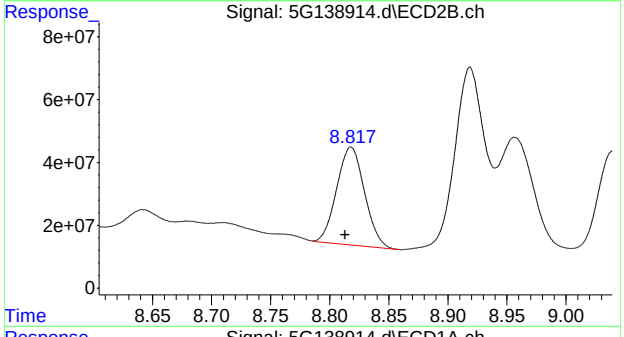
#11 Heptachlor Epoxide

R.T.: 8.543 min
Delta R.T.: 0.006 min
Response: 160956197
Conc: 0.24 PPB m



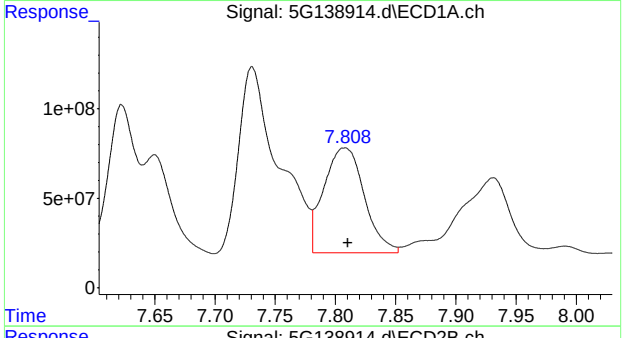
#12 gamma-Chlordane

R.T.: 7.650 min
Delta R.T.: 0.005 min
Response: 910183439
Conc: 1.60 PPB m



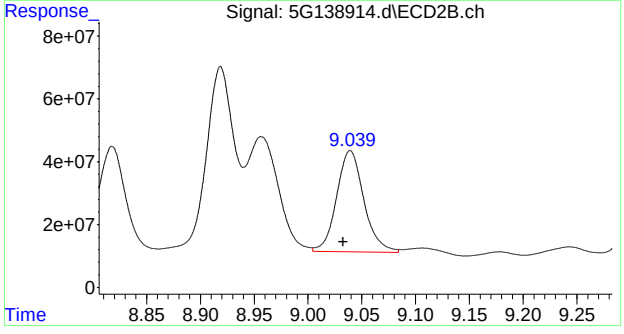
#12 gamma-Chlordane

R.T.: 8.817 min
Delta R.T.: 0.004 min
Response: 510911831
Conc: 0.72 PPB m



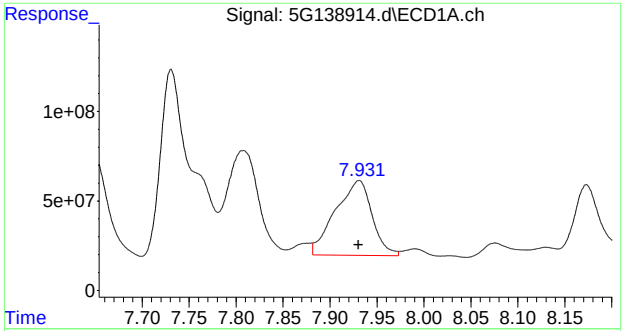
#13 alpha-Chlordane

R.T.: 7.808 min
Delta R.T.: -0.002 min
Response: 1366756310
Conc: 2.54 PPB m



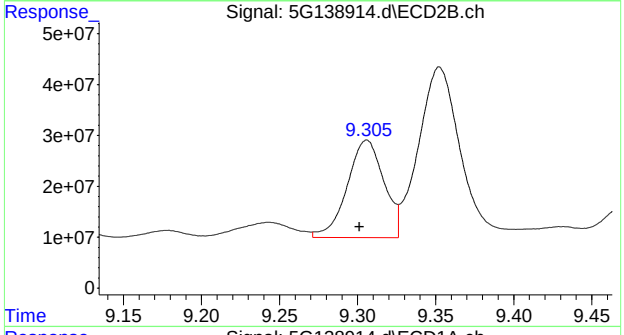
#13 alpha-Chlordane

R.T.: 9.039 min
Delta R.T.: 0.006 min
Response: 569421709
Conc: 0.83 PPB m



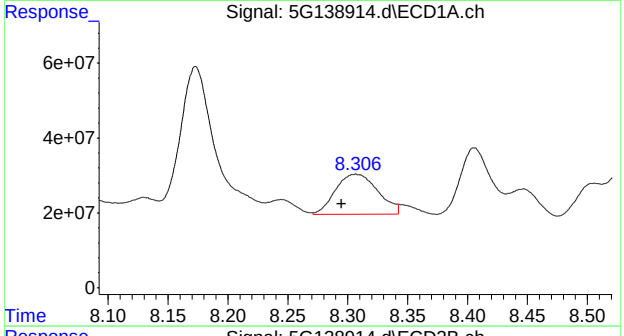
#15 4,4'-DDE

R.T.: 7.931 min
Delta R.T.: 0.001 min
Response: 1136423901
Conc: 2.36 PPB m



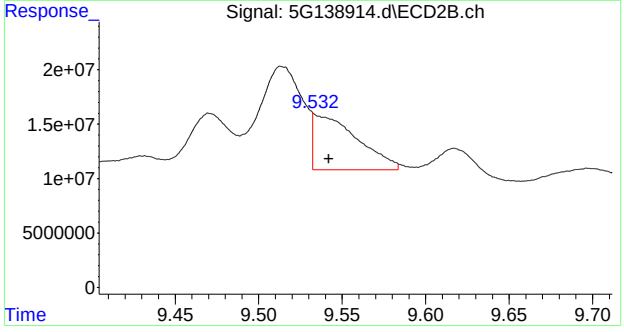
#15 4,4'-DDE

R.T.: 9.306 min
Delta R.T.: 0.005 min
Response: 313230589
Conc: 0.50 PPB



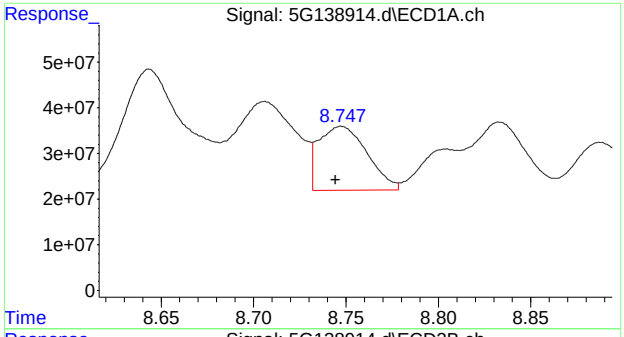
#16 Dieldrin

R.T.: 8.306 min
Delta R.T.: 0.012 min
Response: 265023245
Conc: 0.47 PPB m



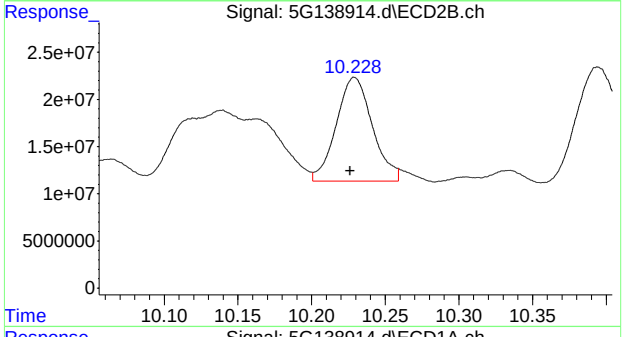
#16 Dieldrin

R.T.: 9.532 min
Delta R.T.: -0.010 min
Response: 91456635
Conc: 0.14 PPB m



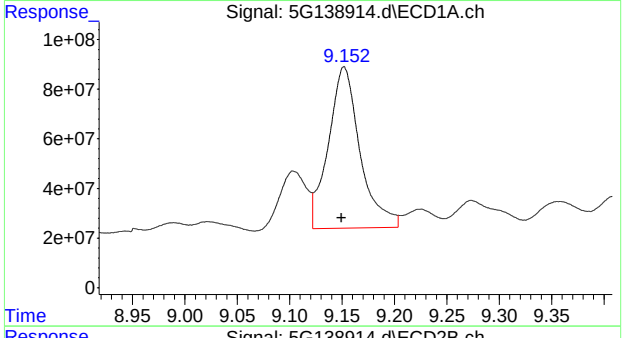
#18 4,4'-DDD

R.T.: 8.747 min
Delta R.T.: 0.003 min
Response: 253485882
Conc: 0.61 PPB m



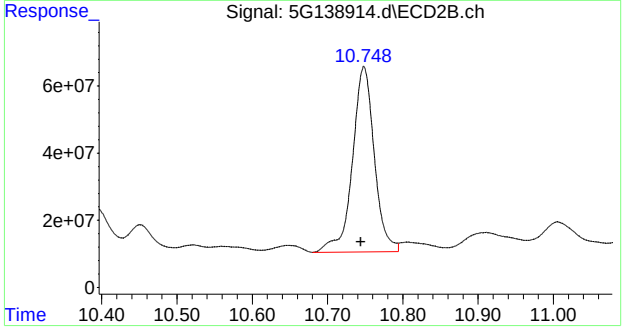
#18 4,4'-DDD

R.T.: 10.228 min
Delta R.T.: 0.002 min
Response: 187852027
Conc: 0.47 PPB m



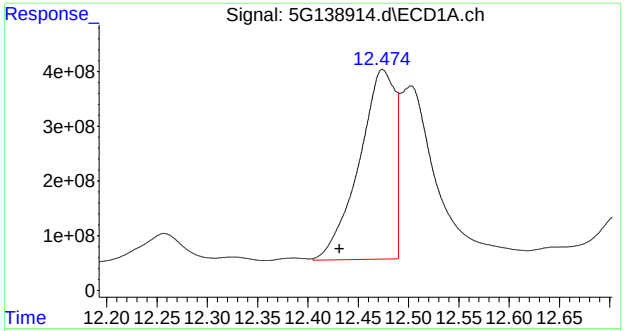
#20 4,4'-DDT

R.T.: 9.152 min
Delta R.T.: 0.003 min
Response: 1368170752
Conc: 3.57 PPB m



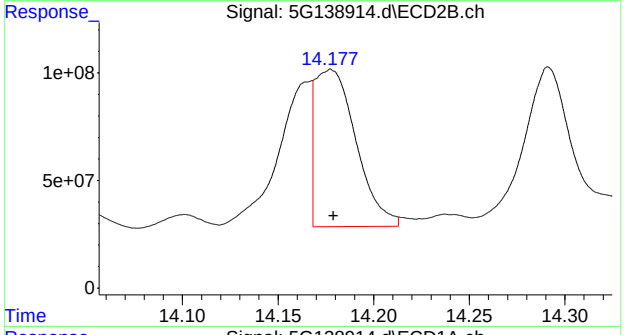
#20 4,4'-DDT

R.T.: 10.748 min
Delta R.T.: 0.004 min
Response: 1117241216
Conc: 2.68 PPB



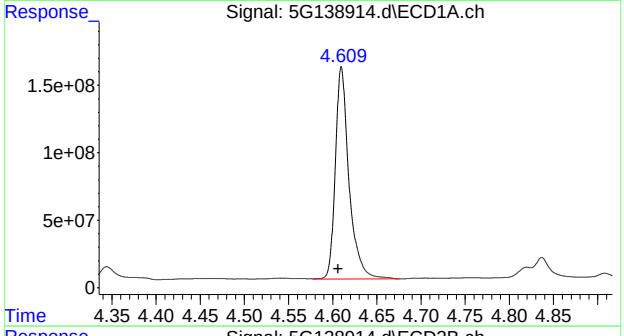
#26 Decachlorobiphenyl

R.T.: 12.474 min
Delta R.T.: 0.042 min
Response: 8644925030
Conc: 17.72 PPB m



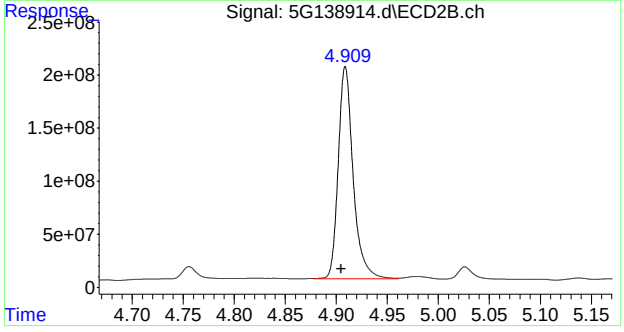
#26 Decachlorobiphenyl

R.T.: 14.177 min
Delta R.T.: -0.002 min
Response: 1077950899
Conc: 2.66 PPB m



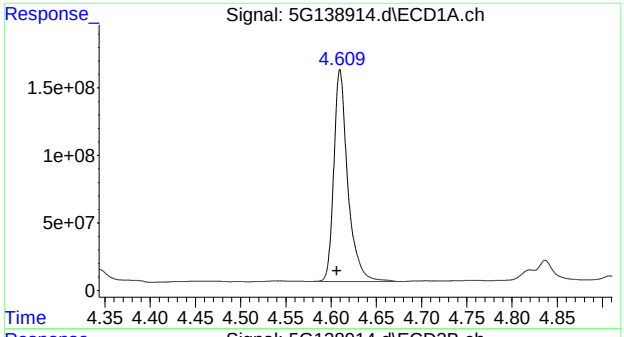
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.609 min
Delta R.T.: 0.003 min
Response: 1693542422
Conc: 5.00 PPB m



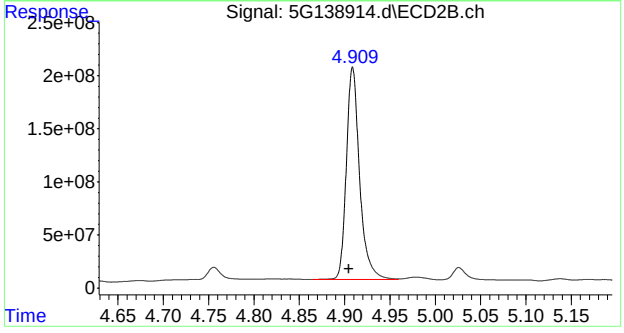
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.909 min
Delta R.T.: 0.004 min
Response: 2035509022
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.609 min
Delta R.T.: 0.003 min
Response: 1686418908
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.909 min
Delta R.T.: 0.004 min
Response: 2036840922
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 09:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\g5g3659\
Data File : 5G138859.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 2:33 am
Operator : christp
Sample : jd91204-2 m
Misc : op55761,G5G3659,5.3,,,10,1
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 10:17:35 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.604	4.902	1702.5E6	1991.0E6	5.000m	5.000m
27)	I 1-bromo-2...	4.604	4.902	1705.9E6	1995.0E6	5.000m	5.000m
33)	I 1-bromo-2...	4.604	4.902	1702.7E6	1991.8E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.233	5.720	430.0E6	1587.4E6	2.343m	2.988m#
	Spiked Amount 40.000	Range 30 - 150		Recovery =		5.86%#	7.47%#
26)	SA Decachlor...	12.429	14.178	1275.8E6	977.9E6	2.588m	2.470m
	Spiked Amount 40.000			Recovery =		6.47%	6.18%
	Target Compounds						
15)	B 4,4'-DDE	7.928	9.298	87445134	67700005	0.179m	0.111m#
20)	MA 4,4'-DDT	9.147	10.740	17469569	20178602	0.045m	0.050m
	SemiQuant Compounds - Not Calibrated on this Instrument						

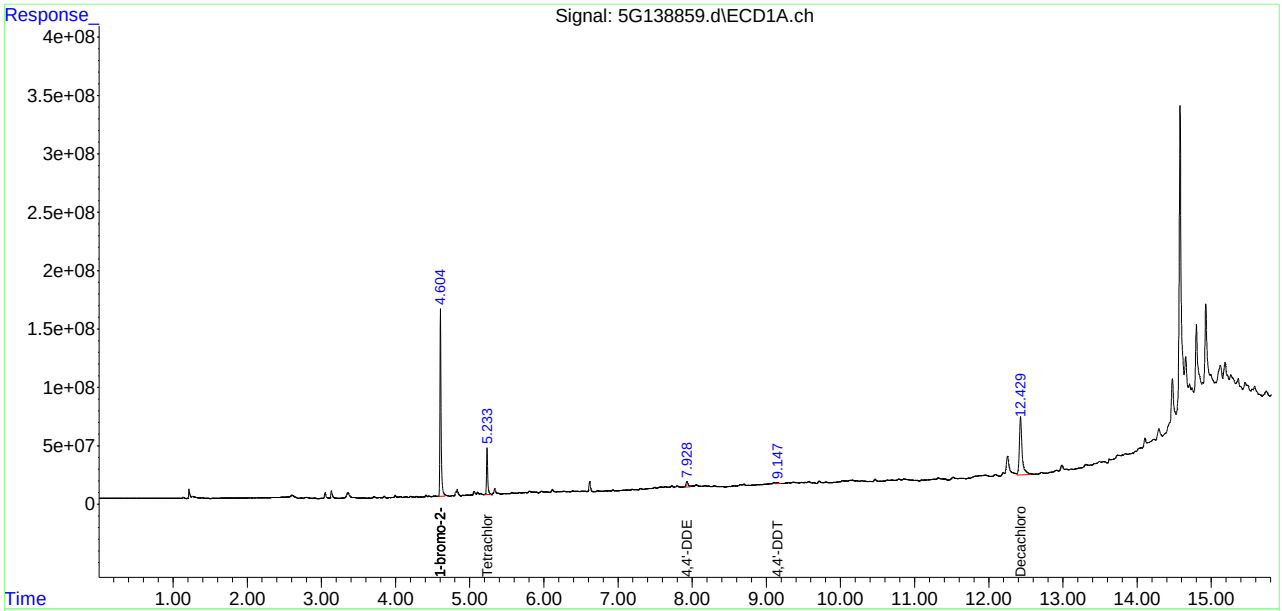
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

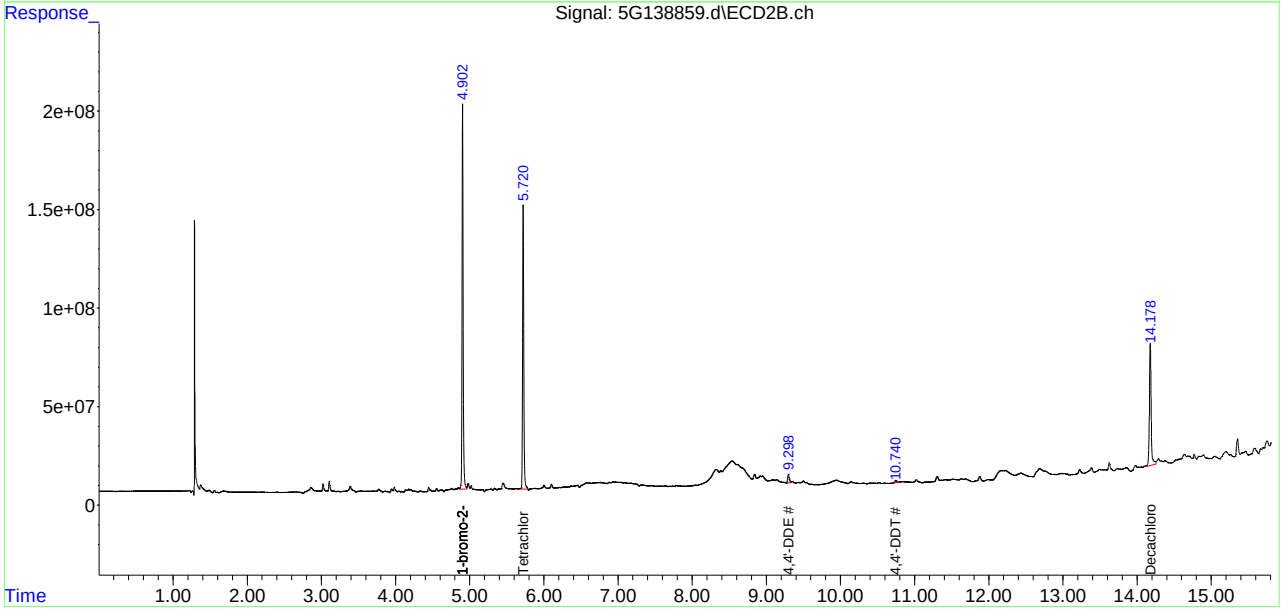
Quantitation Report (QT Reviewed)

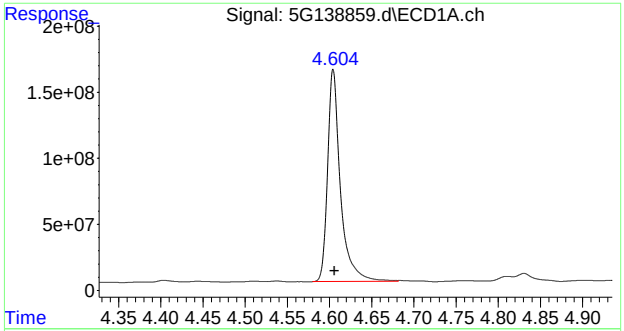
Data Path : C:\msdchem\1\data\laylanie\g5g3659\
Data File : 5G138859.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 2:33 am
Operator : christp
Sample : jd91204-2 m
Misc : op55761,G5G3659,5.3,,,10,1
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 10:17:35 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

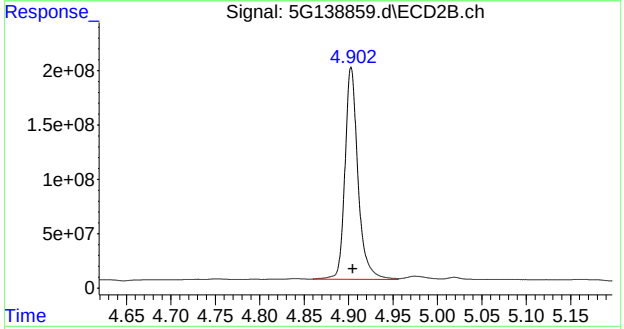






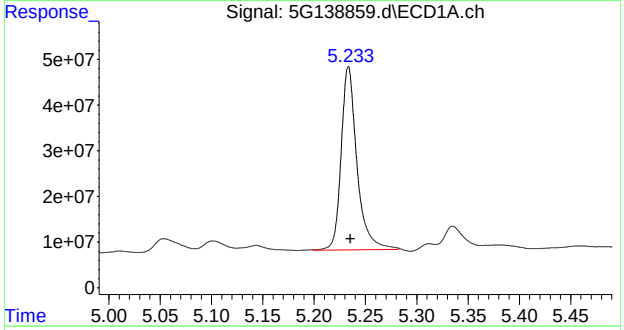
#1 1-bromo-2-nitrobenzene

R.T.: 4.604 min
Delta R.T.: -0.002 min
Response: 1702471083
Conc: 5.00 PPB m



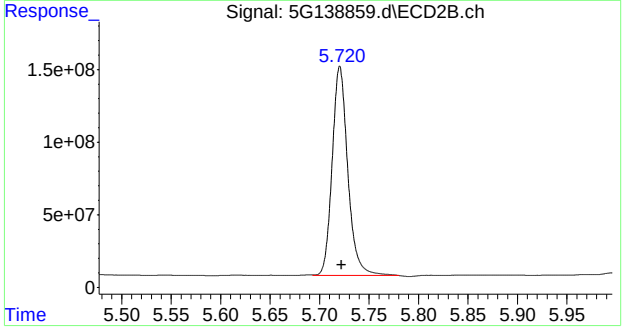
#1 1-bromo-2-nitrobenzene

R.T.: 4.902 min
Delta R.T.: -0.002 min
Response: 1991028978
Conc: 5.00 PPB m



#2 Tetrachloro-m-xylene

R.T.: 5.233 min
Delta R.T.: -0.002 min
Response: 430002259
Conc: 2.34 PPB m

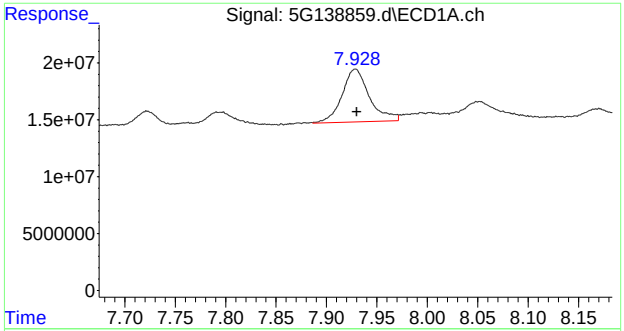


#2 Tetrachloro-m-xylene

R.T.: 5.720 min
Delta R.T.: -0.002 min
Response: 1587434521
Conc: 2.99 PPB m

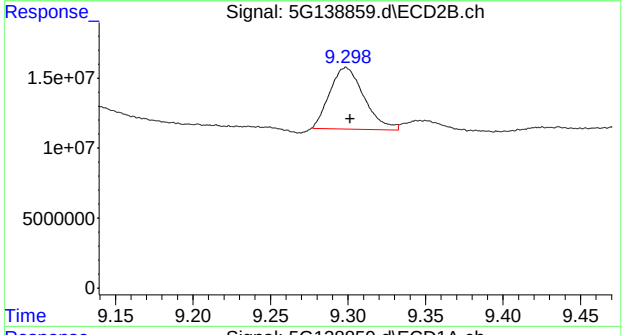
9.1.6

6



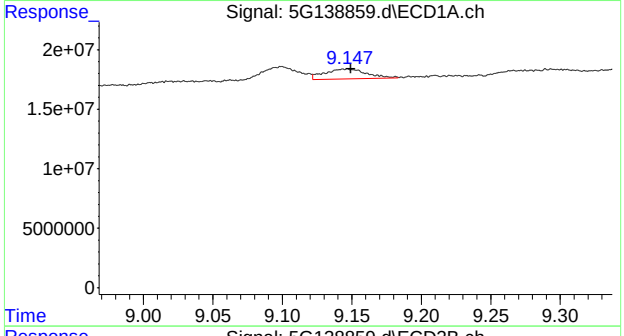
#15 4,4'-DDE

R.T.: 7.928 min
Delta R.T.: -0.002 min
Response: 87445134
Conc: 0.18 PPB m



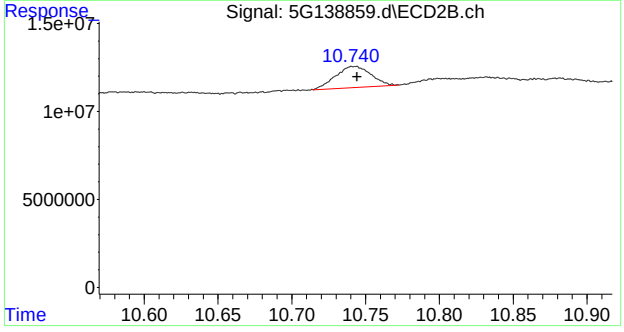
#15 4,4'-DDE

R.T.: 9.298 min
Delta R.T.: -0.003 min
Response: 67700005
Conc: 0.11 PPB m



#20 4,4'-DDT

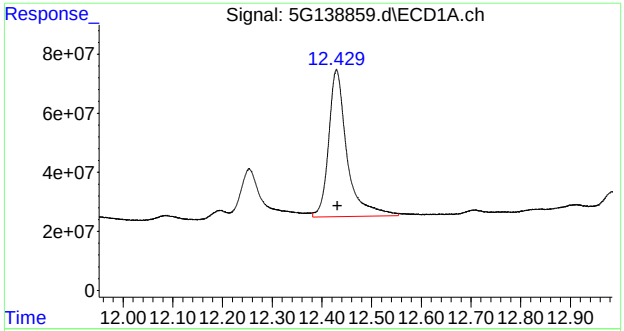
R.T.: 9.147 min
Delta R.T.: -0.003 min
Response: 17469569
Conc: 0.05 PPB m



#20 4,4'-DDT

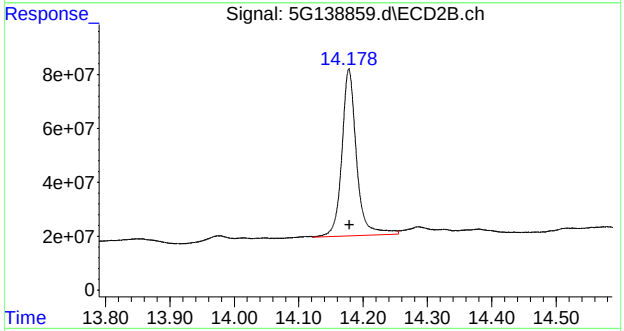
R.T.: 10.740 min
Delta R.T.: -0.004 min
Response: 20178602
Conc: 0.05 PPB m

9.16
6



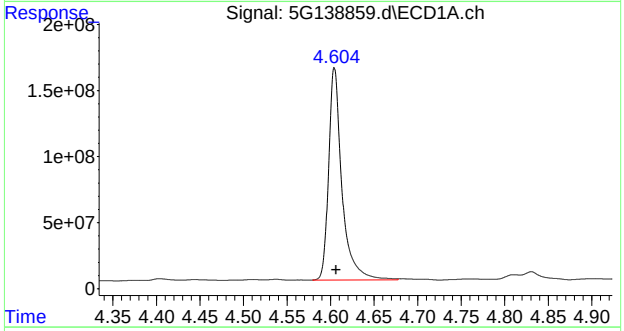
#26 Decachlorobiphenyl

R.T.: 12.429 min
Delta R.T.: -0.002 min
Response: 1275778191
Conc: 2.59 PPB m



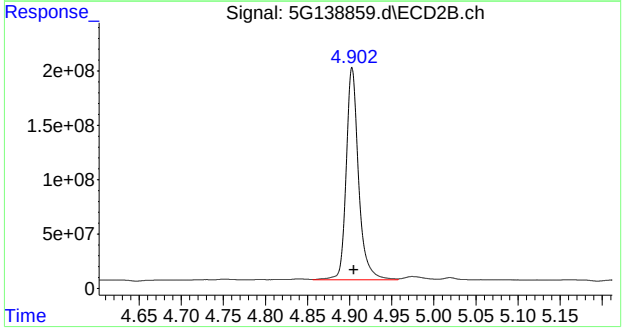
#26 Decachlorobiphenyl

R.T.: 14.178 min
Delta R.T.: -0.001 min
Response: 977858150
Conc: 2.47 PPB m



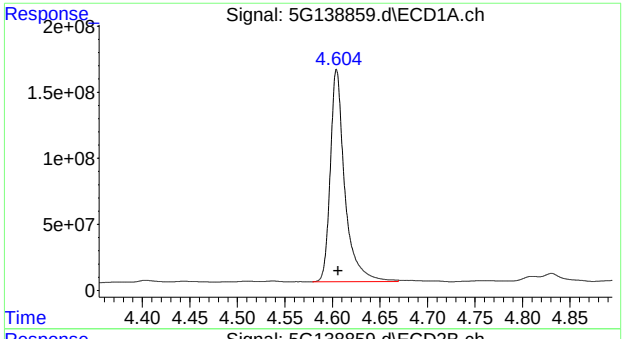
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.604 min
Delta R.T.: -0.002 min
Response: 1705901221
Conc: 5.00 PPB m



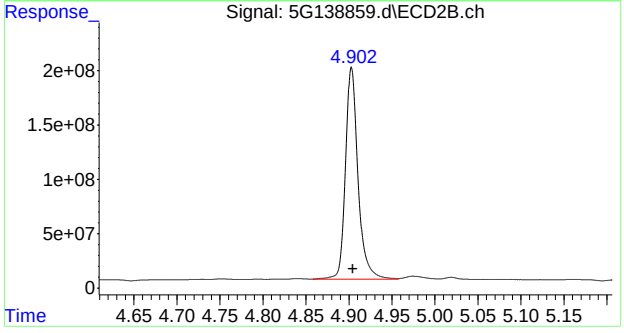
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.902 min
Delta R.T.: -0.002 min
Response: 1995005152
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.604 min
Delta R.T.: -0.002 min
Response: 1702690700
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.902 min
Delta R.T.: -0.002 min
Response: 1991780619
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 09:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g5g3659\
Data File : 5G138860.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 2:54 am
Operator : christp
Sample : jd91204-3 m
Misc : op55761,G5G3659,5.2,,,10,1
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 09:28:14 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.604	4.903	2012.9E6	2134.5E6	5.000m	5.000m
27)	I 1-bromo-2...	4.604	4.903	2015.6E6	2156.6E6	5.000m	5.000
33)	I 1-bromo-2...	4.604	4.903	2013.1E6	2156.6E6	5.000m	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.234	5.720	410.6E6	1538.2E6	1.892m	2.701m#
	Spiked Amount 40.000	Range 30 - 150		Recovery =		4.73%#	6.75%#
26)	SA Decachlor...	12.440	14.177	2431.4E6	1514.3E6	4.172m	3.568m
	Spiked Amount 40.000			Recovery =		10.43%	8.92%
	Target Compounds						
11)	B Heptachlo...	7.486	8.537	137.1E6	85049555	0.216m	0.121m#
12)	B gamma-Chl...	7.644	8.838f	259.3E6	2154.1E6	0.382m	2.918m#
13)	B alpha-Chl...	7.795f	9.032	747.6E6	277.5E6	1.164m	0.386m#
15)	B 4,4'-DDE	7.928	9.300	2781.1E6	2158.3E6	4.828m	3.300m#
16)	MA Dieldrin	8.293	9.538	159.0E6	185.9E6	0.235m	0.271m
18)	A 4,4'-DDD	8.740	10.224	158.0E6	170.0E6	0.316m	0.408m#
20)	MA 4,4'-DDT	9.147	10.743	2781.2E6	2590.1E6	6.076m	5.939m
	SemiQuant Compounds - Not Calibrated on this Instrument						

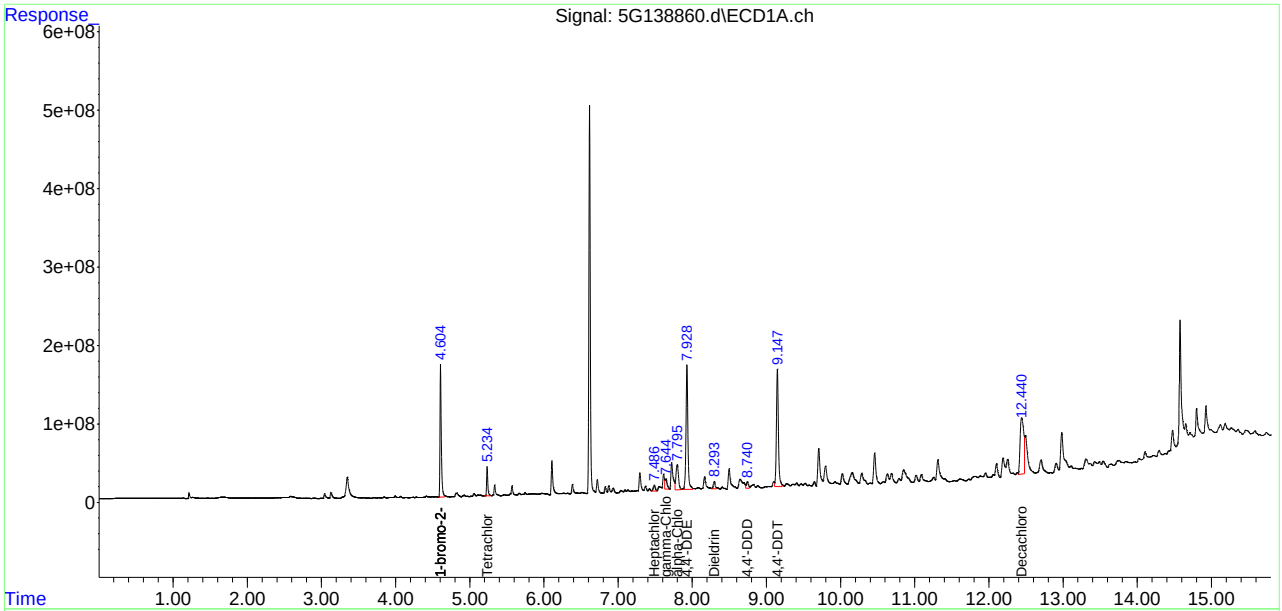
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

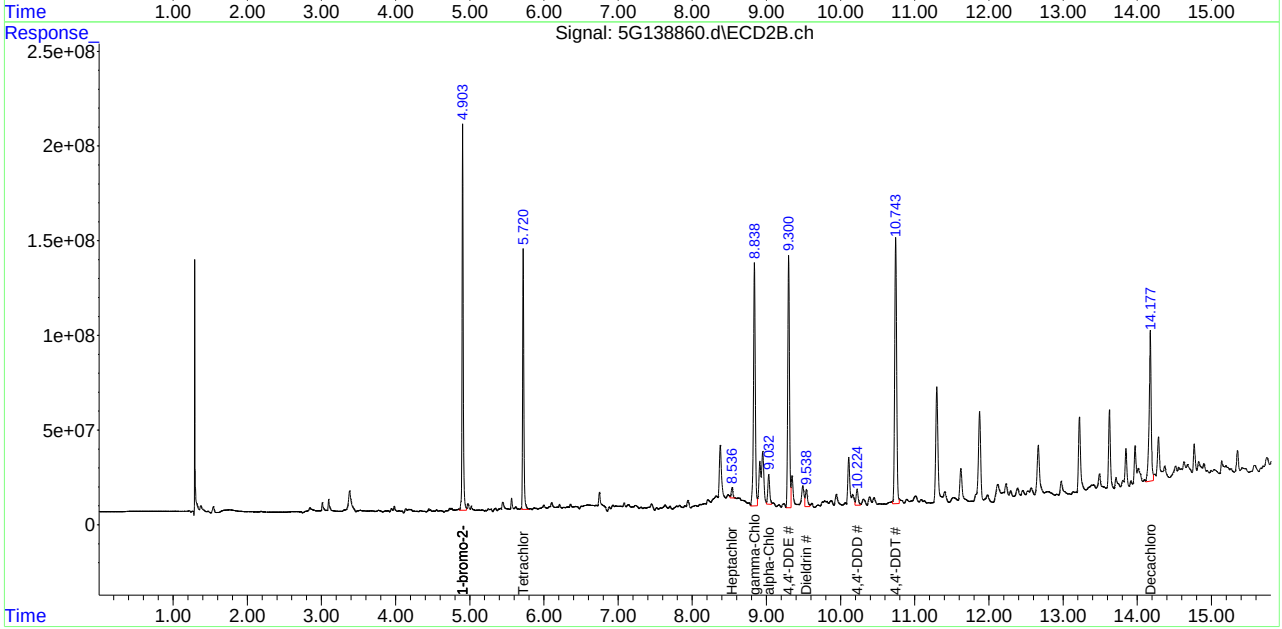
Quantitation Report (QT Reviewed)

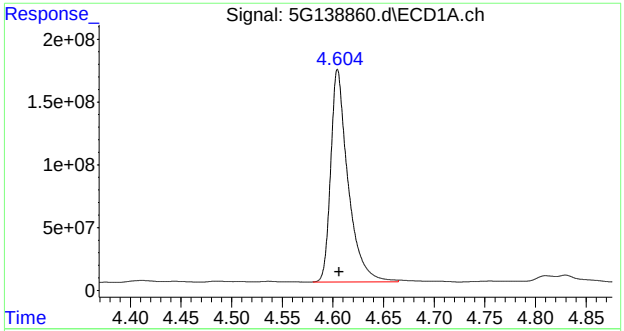
Data Path : C:\msdchem\1\data\g5g3659\
Data File : 5G138860.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 2:54 am
Operator : christp
Sample : jd91204-3 m
Misc : op55761,G5G3659,5.2,,,10,1
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 09:28:14 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

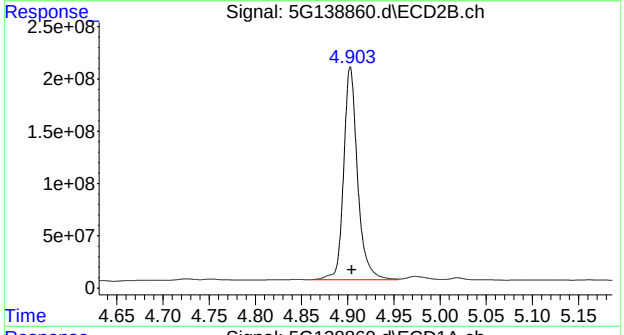






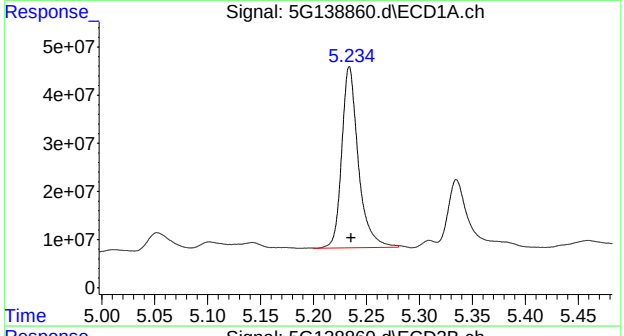
#1 1-bromo-2-nitrobenzene

R.T.: 4.604 min
Delta R.T.: -0.002 min
Response: 2012946647
Conc: 5.00 PPB m



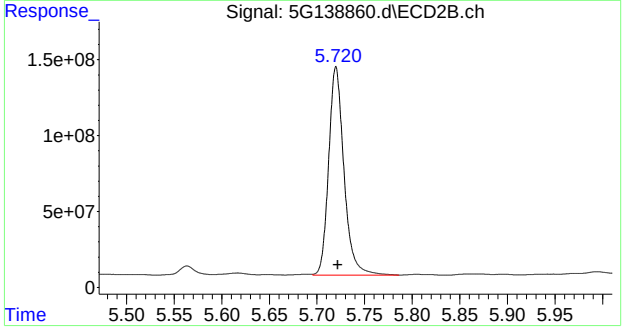
#1 1-bromo-2-nitrobenzene

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 2134464866
Conc: 5.00 PPB m



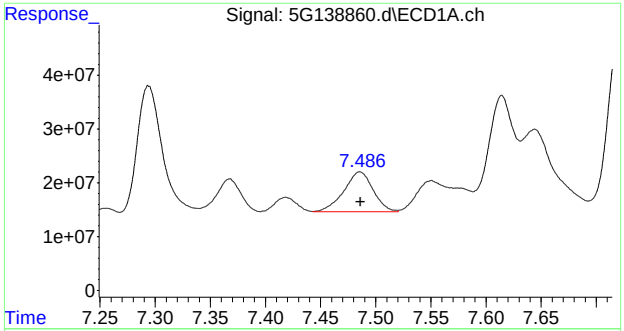
#2 Tetrachloro-m-xylene

R.T.: 5.234 min
Delta R.T.: -0.002 min
Response: 410575808
Conc: 1.89 PPB m



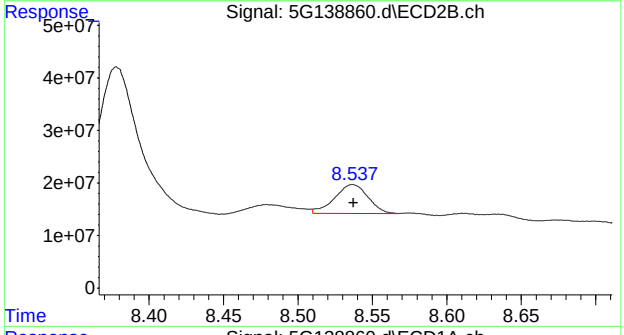
#2 Tetrachloro-m-xylene

R.T.: 5.720 min
Delta R.T.: -0.002 min
Response: 1538152243
Conc: 2.70 PPB m



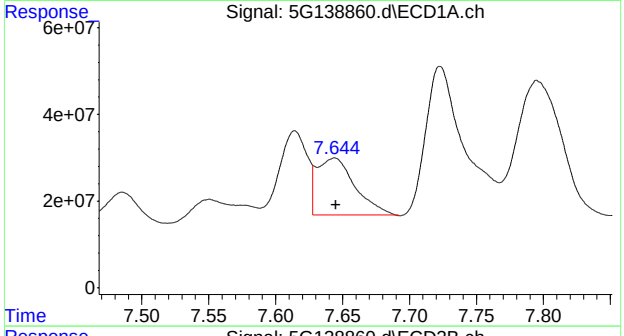
#11 Heptachlor Epoxide

R.T.: 7.486 min
Delta R.T.: 0.000 min
Response: 137088295
Conc: 0.22 PPB m



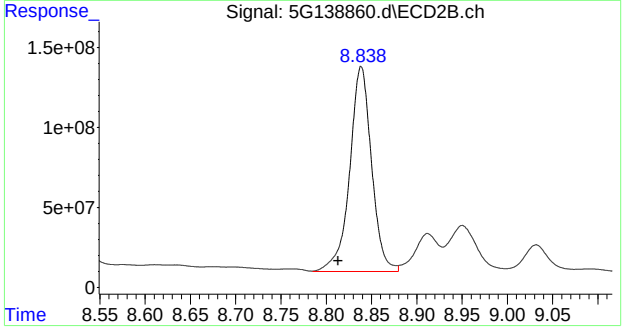
#11 Heptachlor Epoxide

R.T.: 8.537 min
Delta R.T.: 0.000 min
Response: 85049555
Conc: 0.12 PPB m



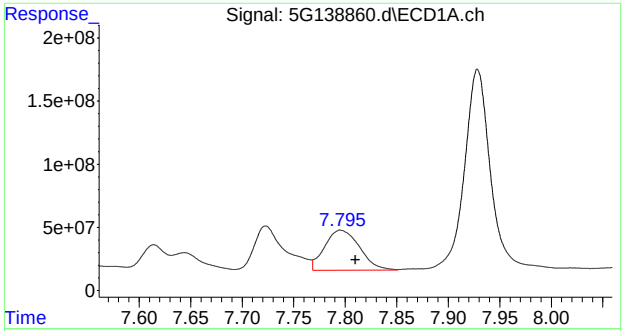
#12 gamma-Chlordane

R.T.: 7.644 min
Delta R.T.: 0.000 min
Response: 259313876
Conc: 0.38 PPB m



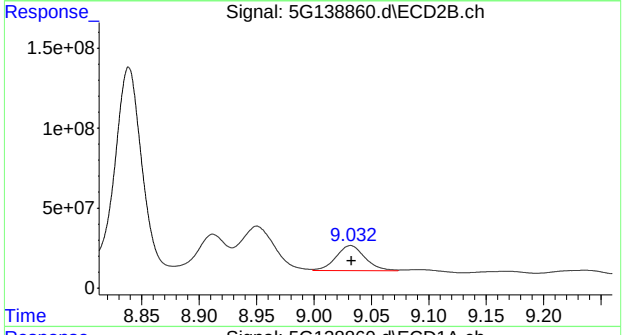
#12 gamma-Chlordane

R.T.: 8.838 min
Delta R.T.: 0.025 min
Response: 2154133698
Conc: 2.92 PPB m



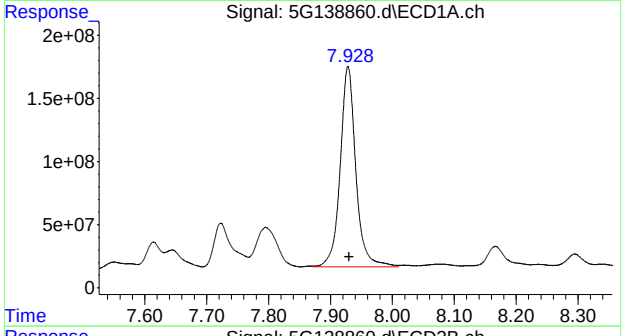
#13 alpha-Chlordane

R.T.: 7.795 min
Delta R.T.: -0.015 min
Response: 747555609
Conc: 1.16 PPB m



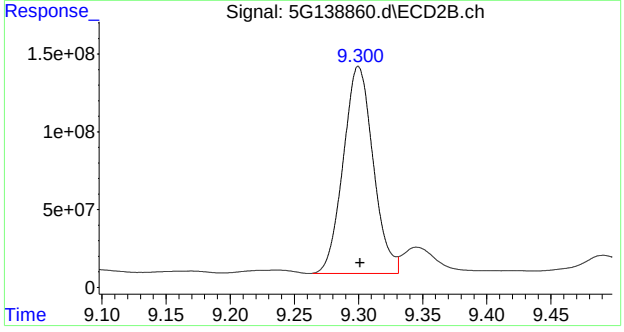
#13 alpha-Chlordane

R.T.: 9.032 min
Delta R.T.: 0.000 min
Response: 277510010
Conc: 0.39 PPB m



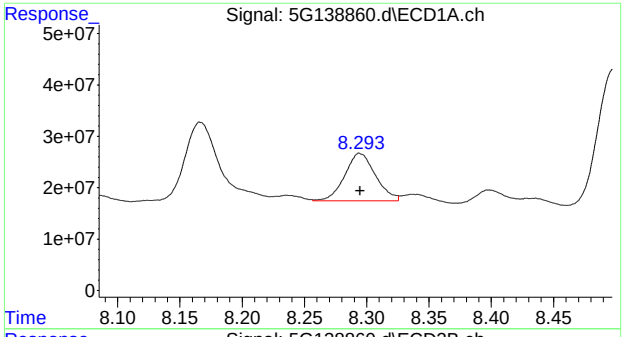
#15 4,4'-DDE

R.T.: 7.928 min
Delta R.T.: -0.002 min
Response: 2781139758
Conc: 4.83 PPB m



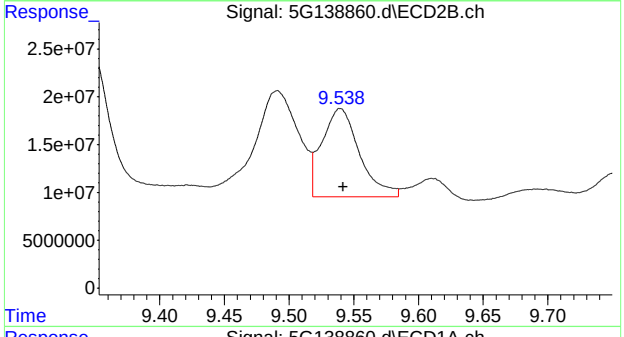
#15 4,4'-DDE

R.T.: 9.300 min
Delta R.T.: -0.002 min
Response: 2158286832
Conc: 3.30 PPB m



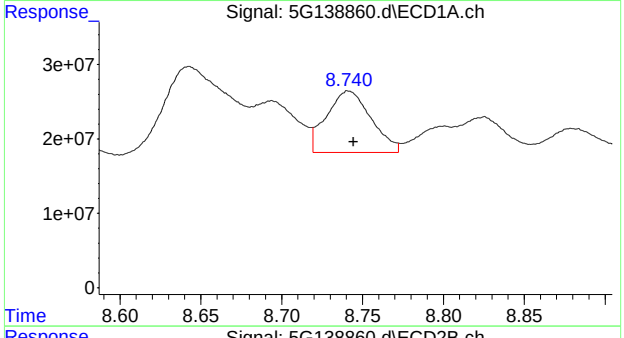
#16 Dieldrin

R.T.: 8.293 min
Delta R.T.: -0.001 min
Response: 159034514
Conc: 0.23 PPB m



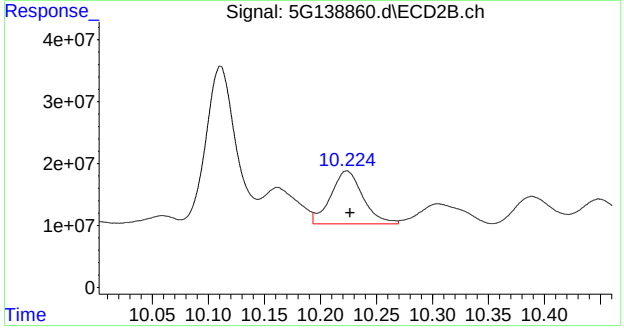
#16 Dieldrin

R.T.: 9.538 min
Delta R.T.: -0.004 min
Response: 185881295
Conc: 0.27 PPB m



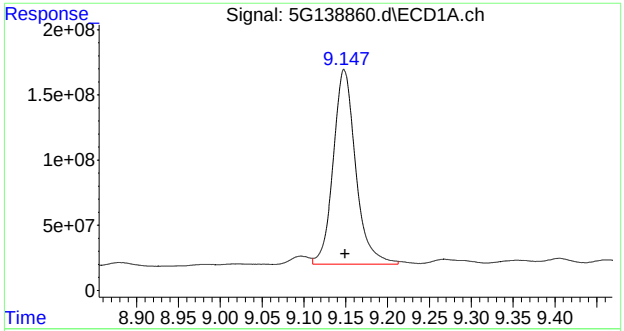
#18 4,4'-DDD

R.T.: 8.740 min
Delta R.T.: -0.004 min
Response: 157976396
Conc: 0.32 PPB m



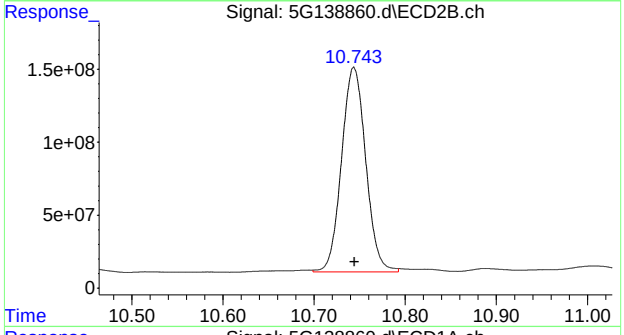
#18 4,4'-DDD

R.T.: 10.224 min
Delta R.T.: -0.002 min
Response: 170018976
Conc: 0.41 PPB m



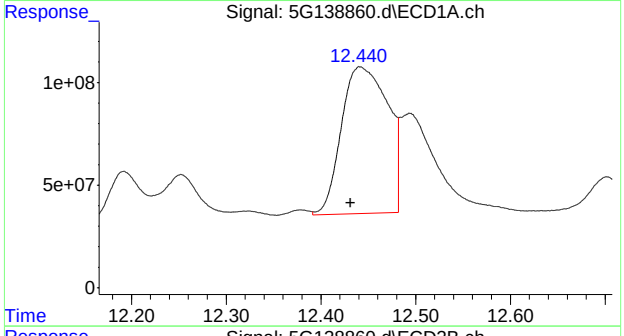
#20 4,4'-DDT

R.T.: 9.147 min
Delta R.T.: -0.002 min
Response: 2781170908
Conc: 6.08 PPB m



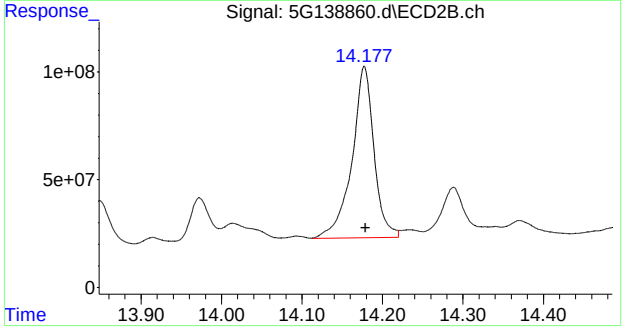
#20 4,4'-DDT

R.T.: 10.743 min
Delta R.T.: 0.000 min
Response: 2590088765
Conc: 5.94 PPB m



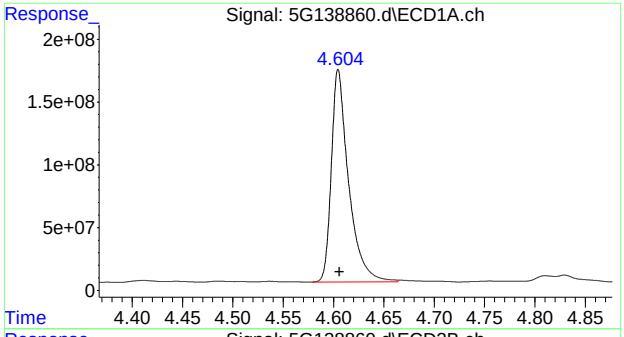
#26 Decachlorobiphenyl

R.T.: 12.440 min
Delta R.T.: 0.008 min
Response: 2431378444
Conc: 4.17 PPB m



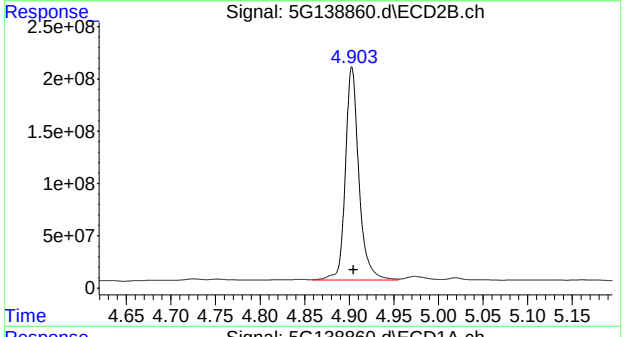
#26 Decachlorobiphenyl

R.T.: 14.177 min
Delta R.T.: -0.002 min
Response: 1514308753
Conc: 3.57 PPB m



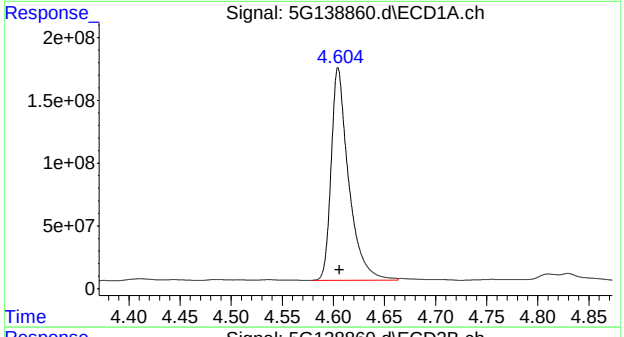
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.604 min
Delta R.T.: -0.002 min
Response: 2015563876
Conc: 5.00 PPB m



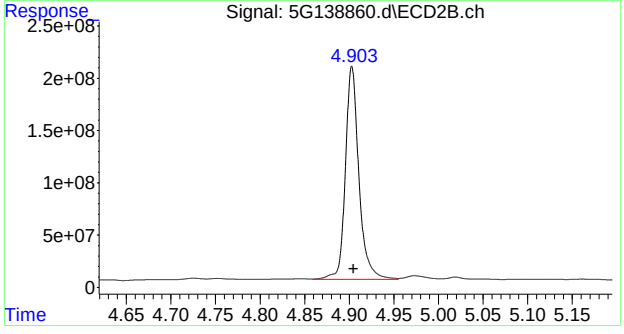
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.903 min
Delta R.T.: -0.001 min
Response: 2156617855
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.604 min
Delta R.T.: -0.002 min
Response: 2013054266
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.903 min
Delta R.T.: -0.001 min
Response: 2156617855
Conc: 5.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 09:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g5g3659\
Data File : 5G138861.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 3:15 am
Operator : christp
Sample : jd91204-4 m
Misc : op55761,G5G3659,5.2,,,10,1
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 09:34:41 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.611	4.903	1478.4E6	2356.4E6	5.000m	5.000m
27)	I 1-bromo-2...	4.610	4.903	1401.8E6	2396.8E6	5.000m	5.000m
33)	I 1-bromo-2...	4.610	4.903	1365.7E6	2363.2E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.233	5.720	372.7E6	1229.5E6	2.338m	1.956m
	Spiked Amount 40.000	Range 30 - 150		Recovery =		5.85%#	4.89%#
26)	SA Decachlor...	12.468f	14.160f	8886.0E6	2111.8E6	20.759m	4.507m#
	Spiked Amount 40.000			Recovery =		51.90%	11.27%
	Target Compounds						
4)	A alpha-BHC	5.699	6.354	42343503	67186458	0.075m	0.066m
11)	B Heptachlo...	7.486	8.536	1916.2E6	1820.9E6	4.105m	2.354m#
12)	B gamma-Chl...	7.645	8.815	2942.4E6	2146.3E6	5.894m	2.633m#
13)	B alpha-Chl...	7.798	9.032	11684.9E6	3978.1E6	24.766m	5.016m#
15)	B 4,4'-DDE	7.927	9.300	2984.5E6	1602.5E6	7.055m	2.220m#
16)	MA Dieldrin	8.298	9.538	764.0E6	455.4E6	1.537m	0.601m#
18)	A 4,4'-DDD	8.749	10.222	498.5E6	193.1E6	1.357m	0.420m#
20)	MA 4,4'-DDT	9.147	10.743	2132.1E6	2321.4E6	6.342m	4.822m
	SemiQuant Compounds - Not Calibrated on this Instrument						

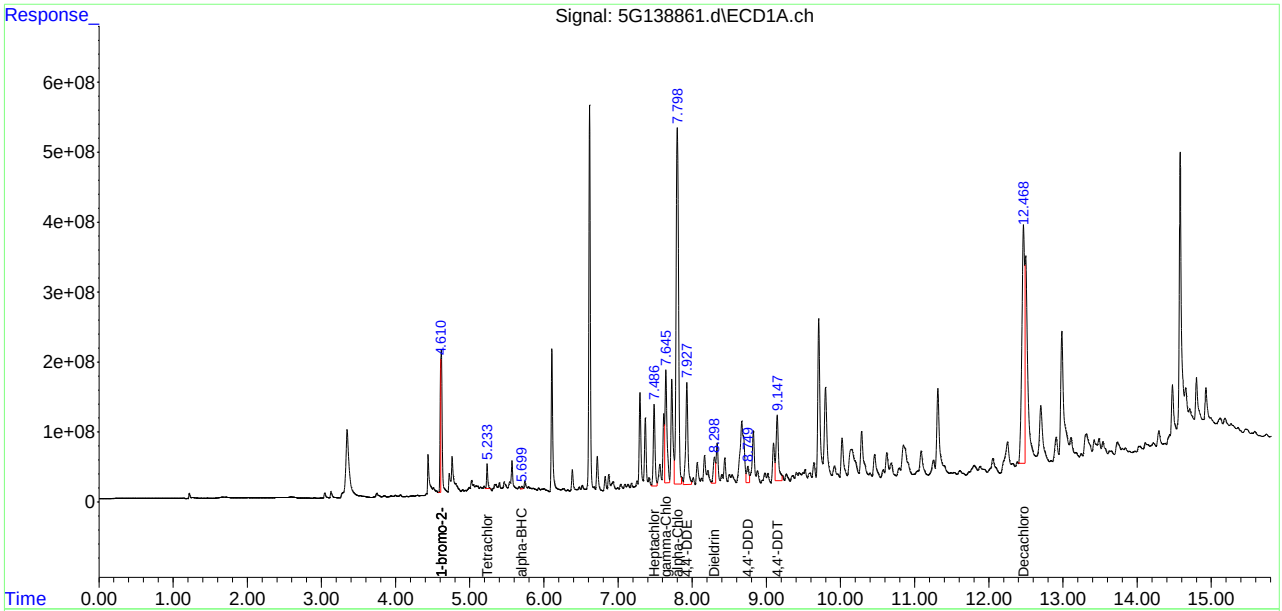
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

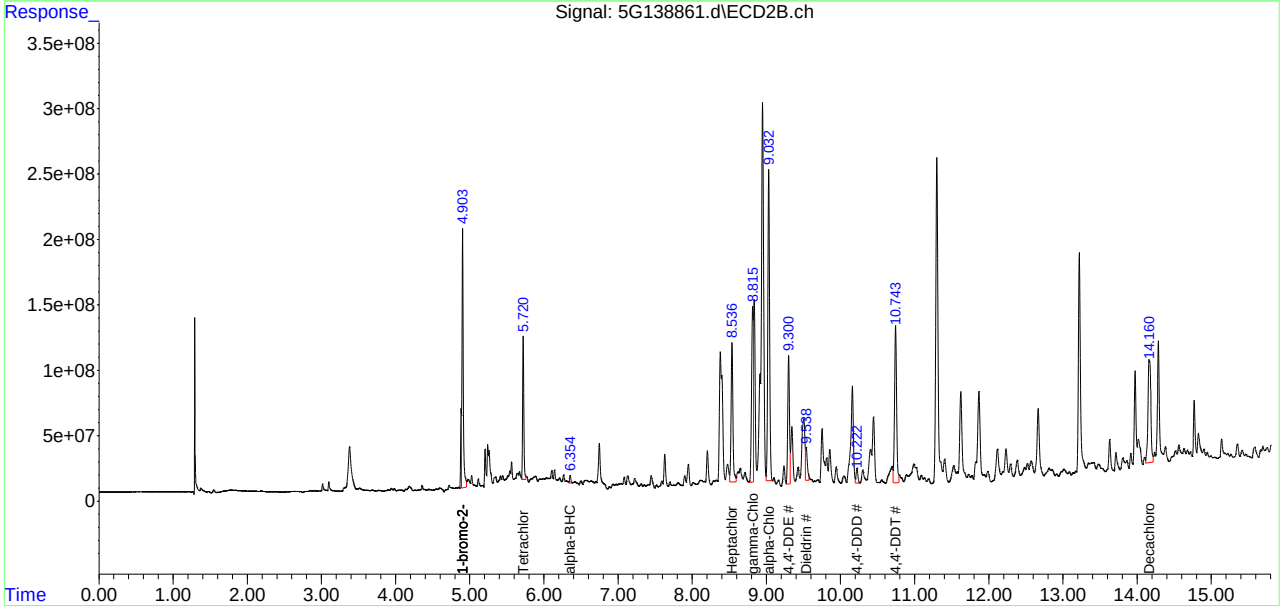
Quantitation Report (QT Reviewed)

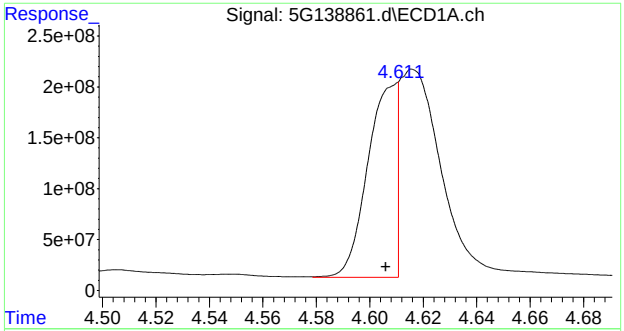
Data Path : C:\msdchem\1\data\g5g3659\
Data File : 5G138861.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 3:15 am
Operator : christp
Sample : jd91204-4 m
Misc : op55761,G5G3659,5.2,,,10,1
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 09:34:41 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

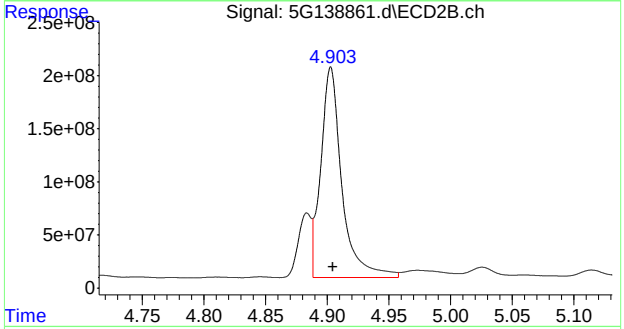






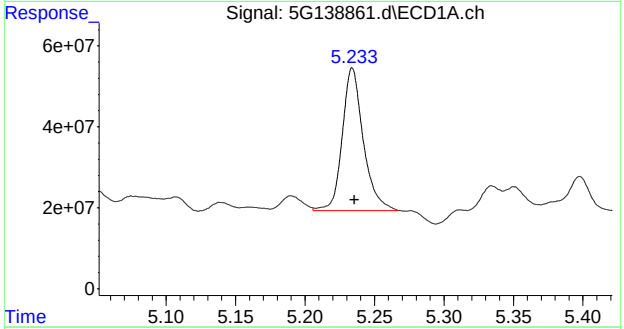
#1 1-bromo-2-nitrobenzene

R.T.: 4.611 min
Delta R.T.: 0.005 min
Response: 1478379557
Conc: 5.00 PPB m



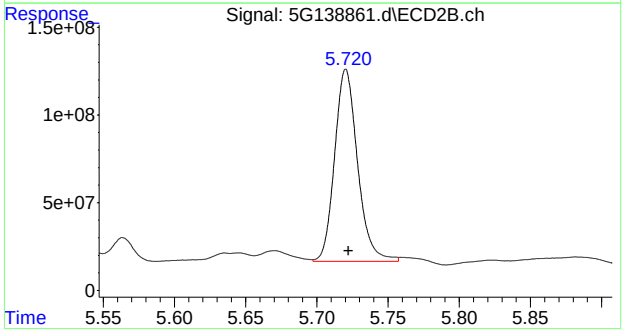
#1 1-bromo-2-nitrobenzene

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 2356388808
Conc: 5.00 PPB m



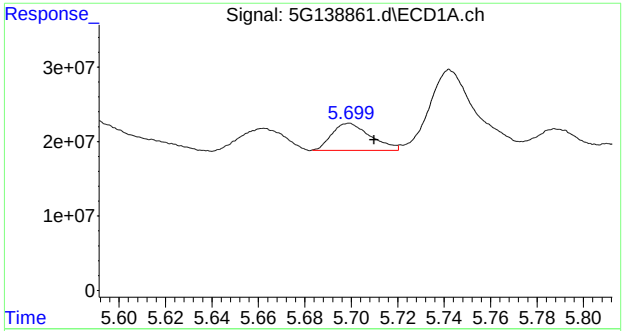
#2 Tetrachloro-m-xylene

R.T.: 5.233 min
Delta R.T.: -0.002 min
Response: 372670980
Conc: 2.34 PPB m



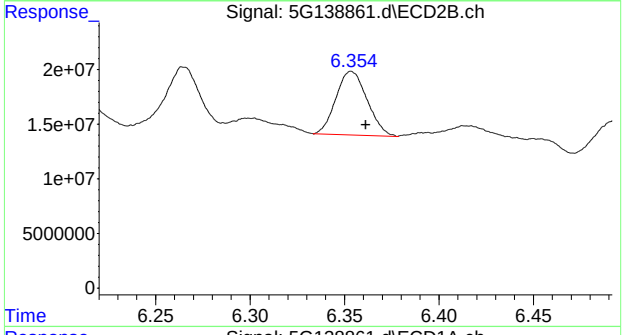
#2 Tetrachloro-m-xylene

R.T.: 5.720 min
Delta R.T.: -0.002 min
Response: 1229548506
Conc: 1.96 PPB m



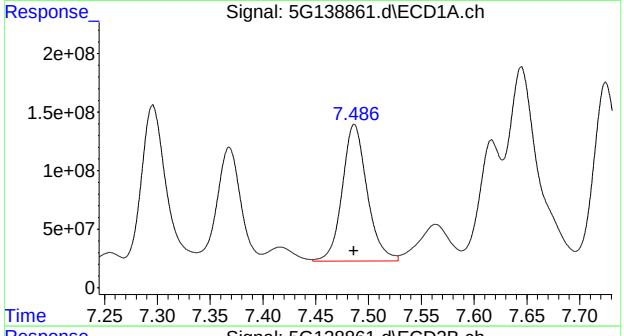
#4 alpha-BHC

R.T.: 5.699 min
Delta R.T.: -0.011 min
Response: 42343503
Conc: 0.08 PPB m



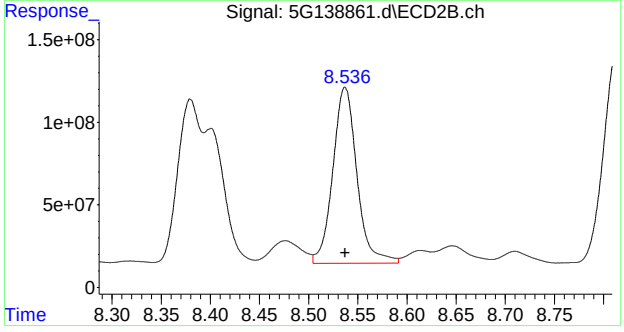
#4 alpha-BHC

R.T.: 6.354 min
Delta R.T.: -0.008 min
Response: 67186458
Conc: 0.07 PPB m



#11 Heptachlor Epoxide

R.T.: 7.486 min
Delta R.T.: 0.000 min
Response: 1916191228
Conc: 4.11 PPB m

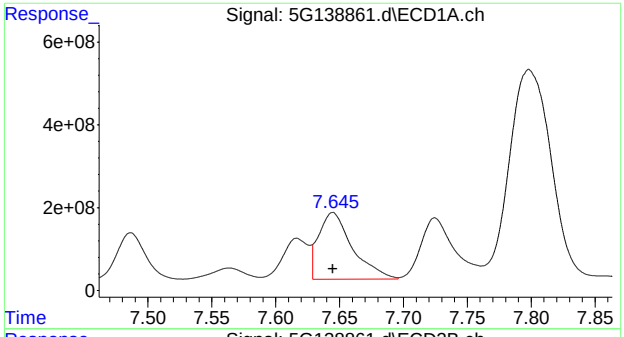


#11 Heptachlor Epoxide

R.T.: 8.536 min
Delta R.T.: 0.000 min
Response: 1820923460
Conc: 2.35 PPB m

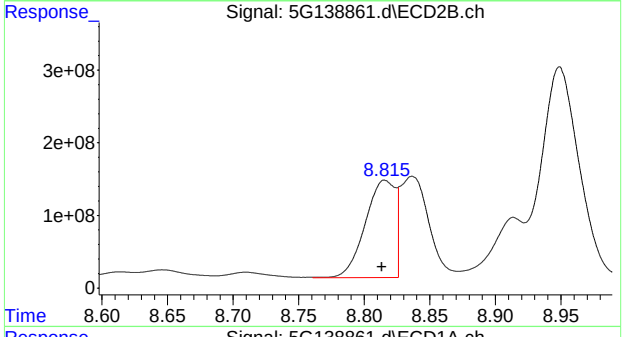
9.1.8

9



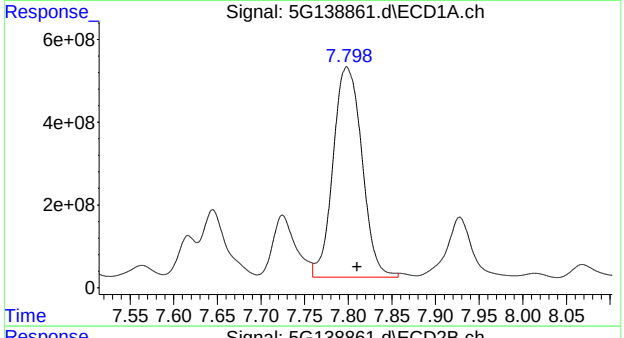
#12 gamma-Chlordane

R.T.: 7.645 min
Delta R.T.: 0.000 min
Response: 2942385099
Conc: 5.89 PPB m



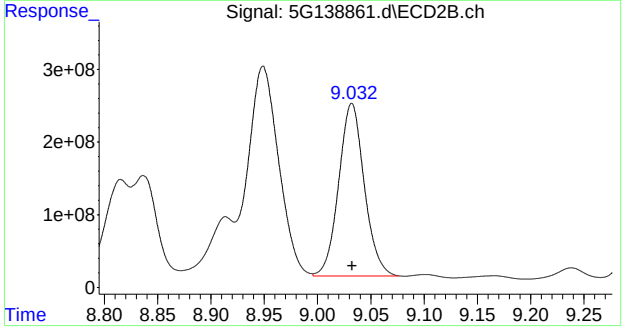
#12 gamma-Chlordane

R.T.: 8.815 min
Delta R.T.: 0.002 min
Response: 2146252891
Conc: 2.63 PPB m



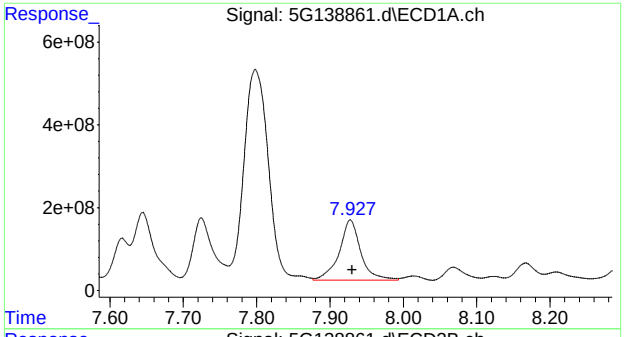
#13 alpha-Chlordane

R.T.: 7.798 min
Delta R.T.: -0.012 min
Response: 11684883340
Conc: 24.77 PPB m



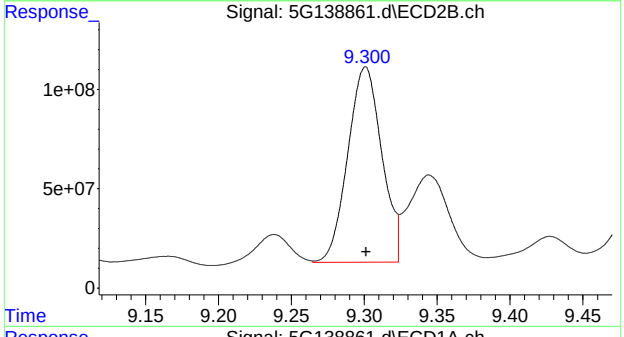
#13 alpha-Chlordane

R.T.: 9.032 min
Delta R.T.: 0.000 min
Response: 3978147748
Conc: 5.02 PPB m



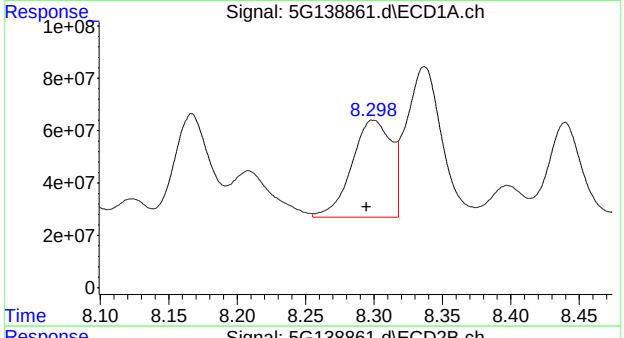
#15 4,4'-DDE

R.T.: 7.927 min
Delta R.T.: -0.003 min
Response: 2984496478
Conc: 7.05 PPB m



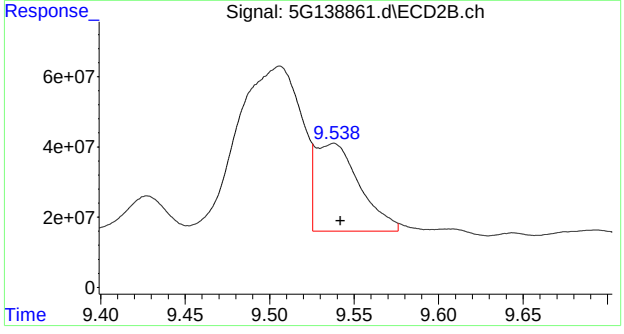
#15 4,4'-DDE

R.T.: 9.300 min
Delta R.T.: -0.001 min
Response: 1602520704
Conc: 2.22 PPB m



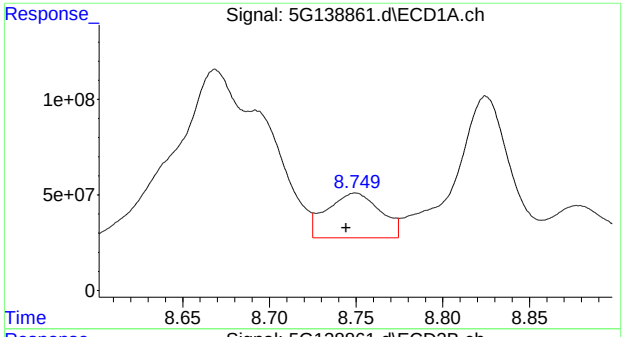
#16 Dieldrin

R.T.: 8.298 min
Delta R.T.: 0.003 min
Response: 764018565
Conc: 1.54 PPB m



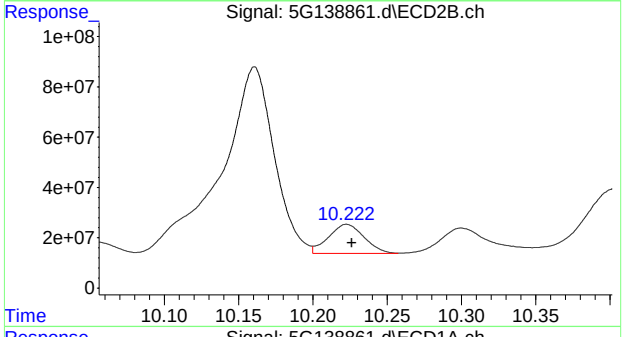
#16 Dieldrin

R.T.: 9.538 min
Delta R.T.: -0.004 min
Response: 455361737
Conc: 0.60 PPB m



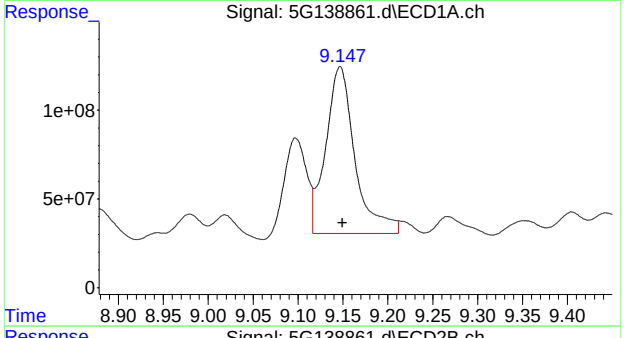
#18 4,4'-DDD

R.T.: 8.749 min
Delta R.T.: 0.005 min
Response: 498508705
Conc: 1.36 PPB m



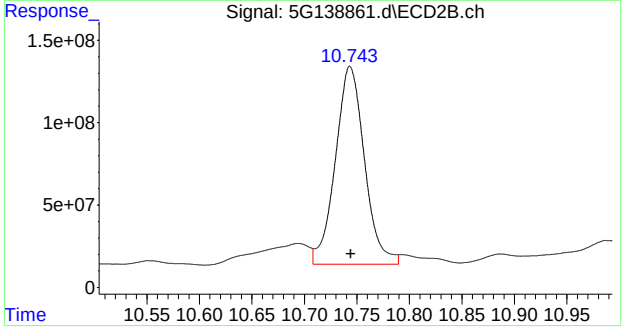
#18 4,4'-DDD

R.T.: 10.222 min
Delta R.T.: -0.004 min
Response: 193140838
Conc: 0.42 PPB m



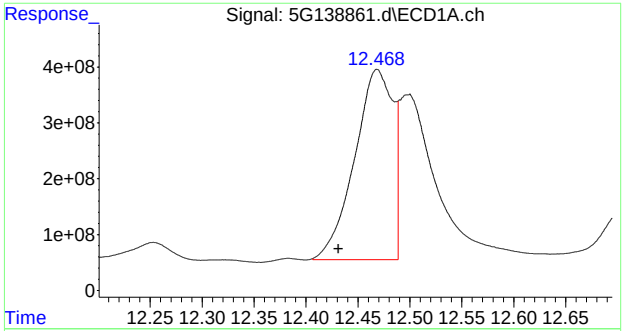
#20 4,4'-DDT

R.T.: 9.147 min
Delta R.T.: -0.003 min
Response: 2132127353
Conc: 6.34 PPB m



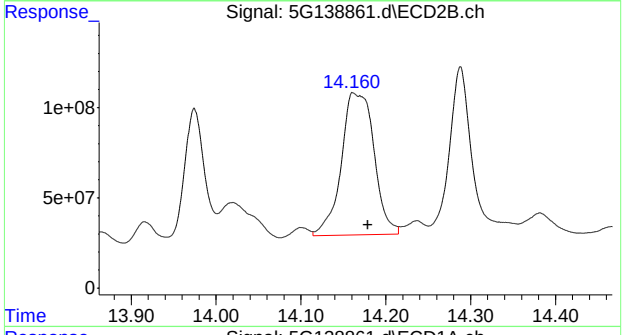
#20 4,4'-DDT

R.T.: 10.743 min
Delta R.T.: -0.002 min
Response: 2321353938
Conc: 4.82 PPB m



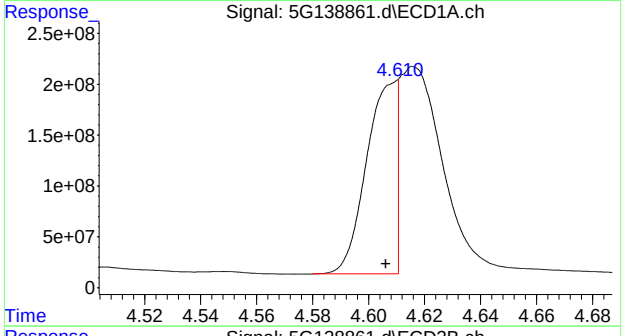
#26 Decachlorobiphenyl

R.T.: 12.468 min
Delta R.T.: 0.036 min
Response: 8885997430
Conc: 20.76 PPB m



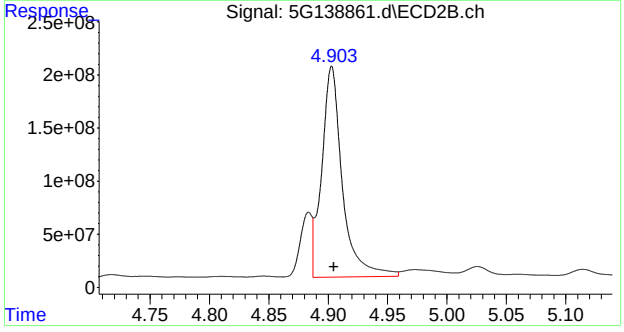
#26 Decachlorobiphenyl

R.T.: 14.160 min
Delta R.T.: -0.019 min
Response: 2111807398
Conc: 4.51 PPB m



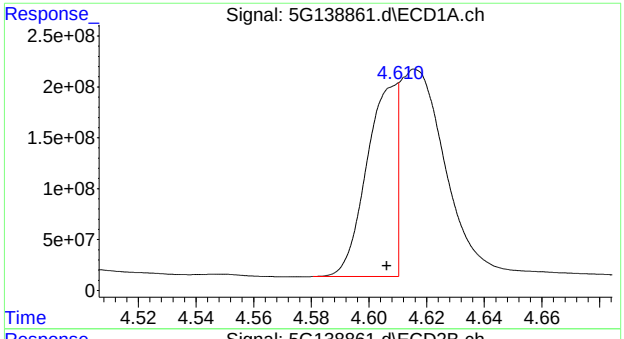
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.610 min
Delta R.T.: 0.004 min
Response: 1401843895
Conc: 5.00 PPB m



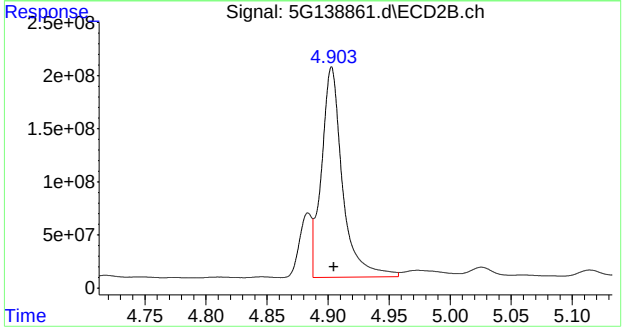
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 2396778993
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.610 min
Delta R.T.: 0.004 min
Response: 1365659727
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 2363197278
Conc: 5.00 PPB m

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
07/02/24 13:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\g5g3659\
Data File : 5G138862.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 3:36 am
Operator : christp
Sample : jd91204-5 m
Misc : op55761,G5G3659,5.4,,,10,1
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:16:05 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.605	4.902	2049.8E6	1822.4E6	5.000	5.000m
27)	I 1-bromo-2...	4.605	4.902	2049.8E6	1818.4E6	5.000	5.000m
33)	I 1-bromo-2...	4.605	4.902	2049.8E6	1825.9E6	5.000	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.233	5.719	397.7E6	1121.0E6	1.800m	2.305m#
	Spiked Amount 40.000	Range 30 - 150		Recovery =		4.50%#	5.76%#
26)	SA Decachlor...	12.472f	14.161f	19388.9E6	2801.9E6	32.668m	7.732m#
	Spiked Amount 40.000			Recovery =		81.67%	19.33%
	Target Compounds						
4)	A alpha-BHC	5.698	6.353	49211183	90572878	0.063m	0.115m#
11)	B Heptachlo...	7.488	8.537	378.4E6	240.3E6	0.585m	0.402m#
12)	B gamma-Chl...	7.639	8.819	700.6E6	370.2E6	1.012m	0.587m#
13)	B alpha-Chl...	7.795	9.033	1587.4E6	495.2E6	2.426m	0.807m#
15)	B 4,4'-DDE	7.927	9.298	15815.7E6	9584.2E6	26.964m	17.164m#
16)	MA Dieldrin	8.291	9.538	289.7E6	161.1E6	0.420m	0.275m#
18)	A 4,4'-DDD	8.741	10.223	802.8E6	588.0E6	1.576m	1.653m
20)	MA 4,4'-DDT	9.148	10.743	15837.7E6	11653.9E6	33.978m	31.299m
	SemiQuant Compounds - Not Calibrated on this Instrument						

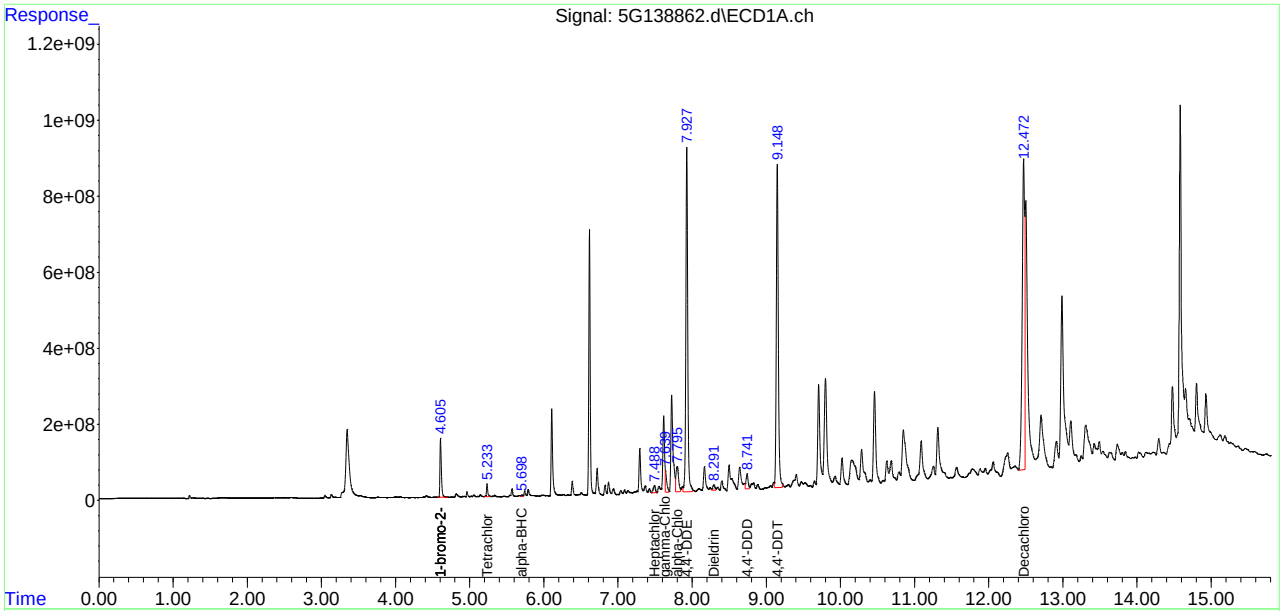
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

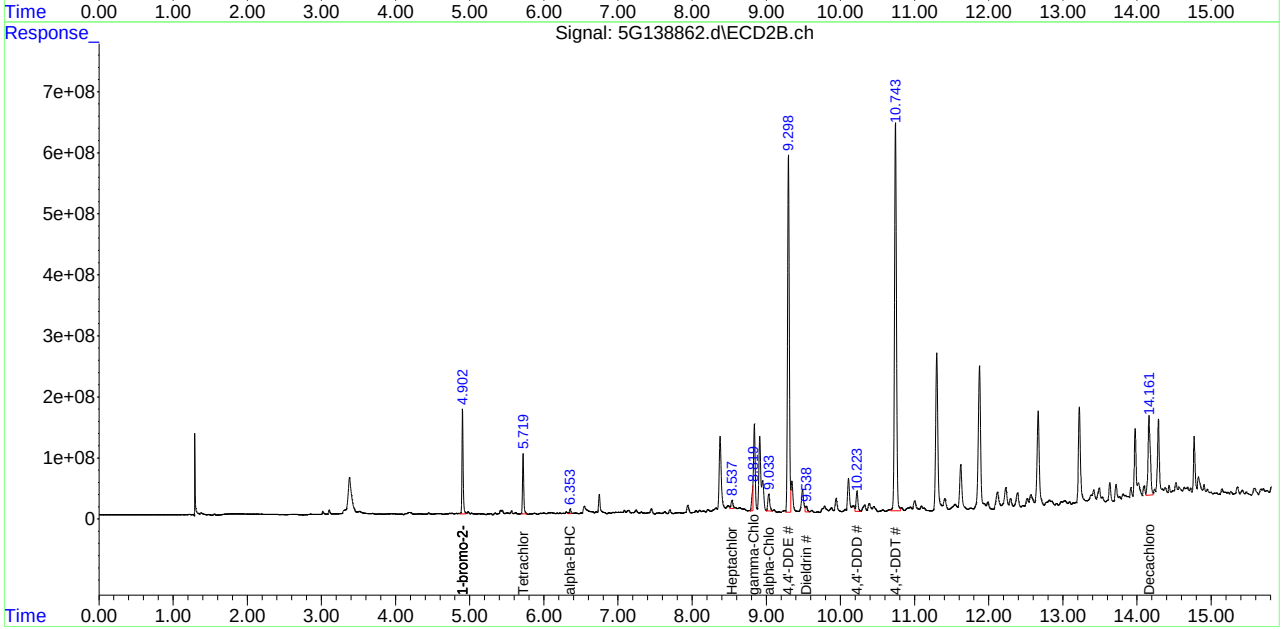
Quantitation Report (QT Reviewed)

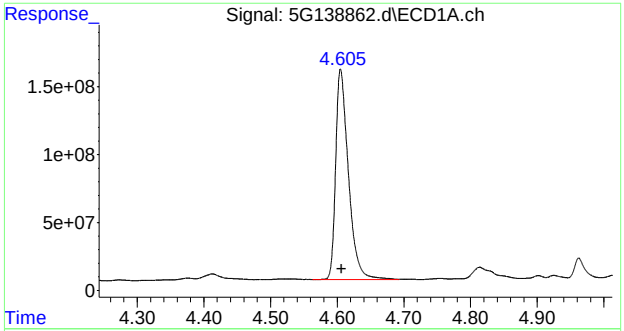
Data Path : C:\msdchem\1\data\laylanie\g5g3659\
Data File : 5G138862.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 3:36 am
Operator : christp
Sample : jd91204-5 m
Misc : op55761,G5G3659,5.4,,,10,1
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:16:05 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

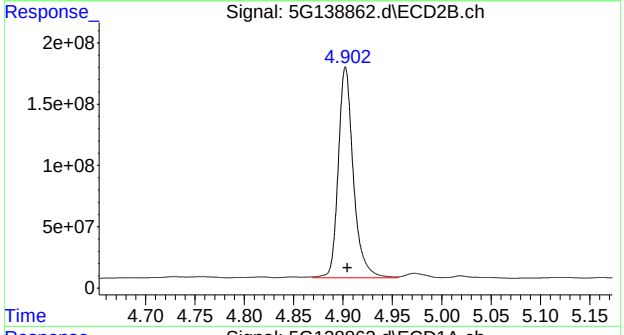






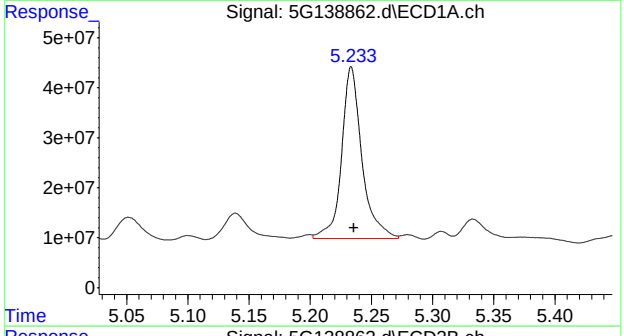
#1 1-bromo-2-nitrobenzene

R.T.: 4.605 min
Delta R.T.: 0.000 min
Response: 2049805868
Conc: 5.00 PPB



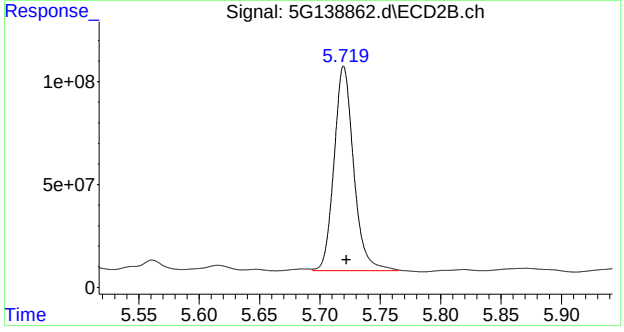
#1 1-bromo-2-nitrobenzene

R.T.: 4.902 min
Delta R.T.: -0.002 min
Response: 1822423157
Conc: 5.00 PPB m



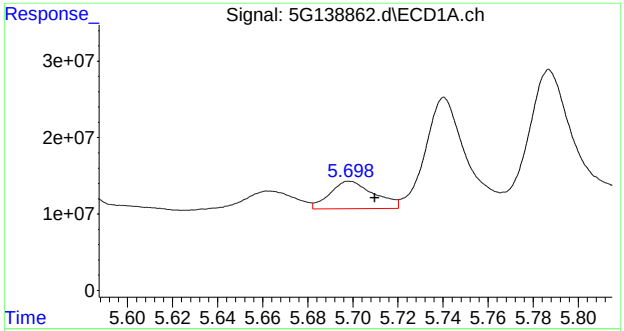
#2 Tetrachloro-m-xylene

R.T.: 5.233 min
Delta R.T.: -0.002 min
Response: 397739325
Conc: 1.80 PPB m



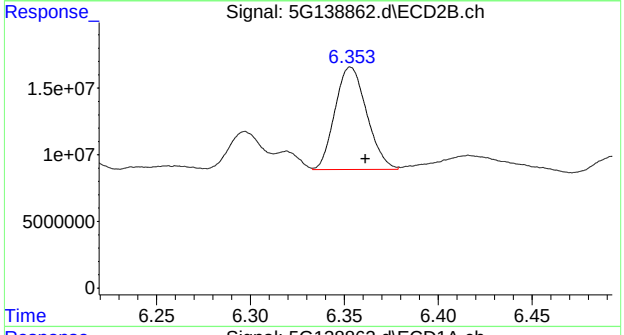
#2 Tetrachloro-m-xylene

R.T.: 5.719 min
Delta R.T.: -0.003 min
Response: 1120971167
Conc: 2.31 PPB m



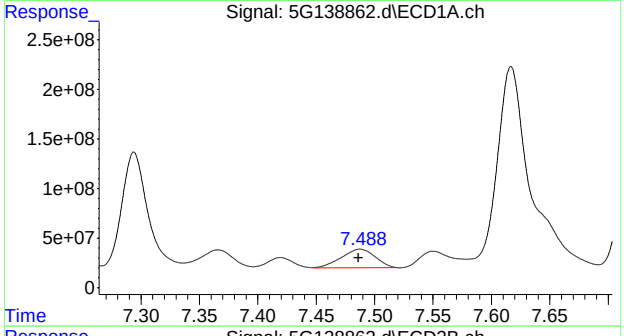
#4 alpha-BHC

R.T.: 5.698 min
Delta R.T.: -0.012 min
Response: 49211183
Conc: 0.06 PPB m



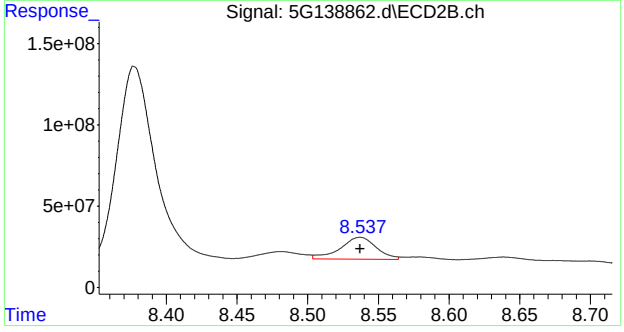
#4 alpha-BHC

R.T.: 6.353 min
Delta R.T.: -0.008 min
Response: 90572878
Conc: 0.11 PPB m



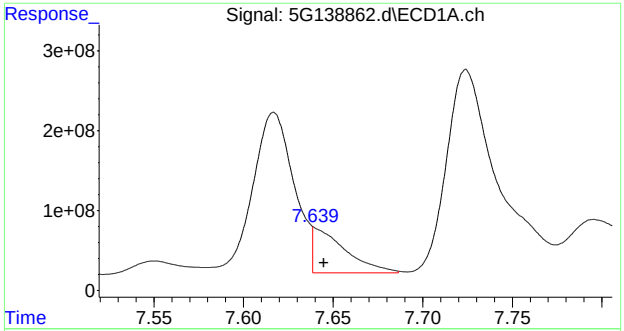
#11 Heptachlor Epoxide

R.T.: 7.488 min
Delta R.T.: 0.002 min
Response: 378412280
Conc: 0.58 PPB m



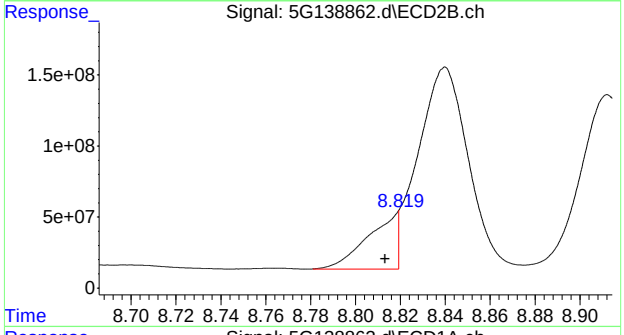
#11 Heptachlor Epoxide

R.T.: 8.537 min
Delta R.T.: 0.000 min
Response: 240317221
Conc: 0.40 PPB m



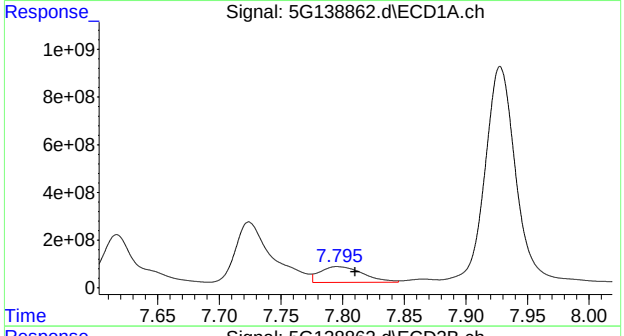
#12 gamma-Chlordane

R.T.: 7.639 min
Delta R.T.: -0.006 min
Response: 700589037
Conc: 1.01 PPB m



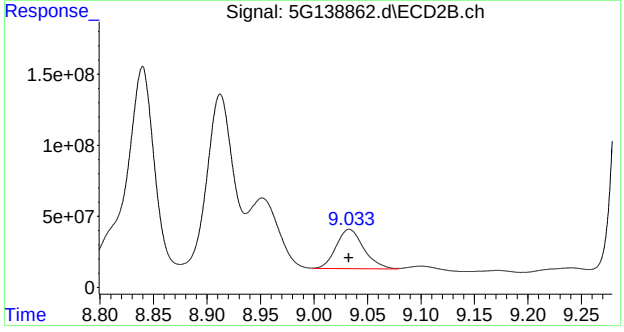
#12 gamma-Chlordane

R.T.: 8.819 min
Delta R.T.: 0.006 min
Response: 370237292
Conc: 0.59 PPB m



#13 alpha-Chlordane

R.T.: 7.795 min
Delta R.T.: -0.015 min
Response: 1587362369
Conc: 2.43 PPB m

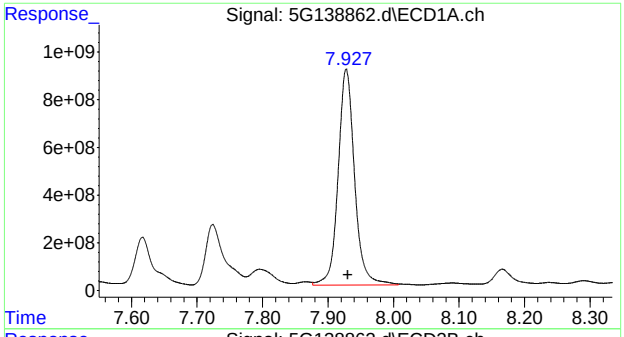


#13 alpha-Chlordane

R.T.: 9.033 min
Delta R.T.: 0.000 min
Response: 495226568
Conc: 0.81 PPB m

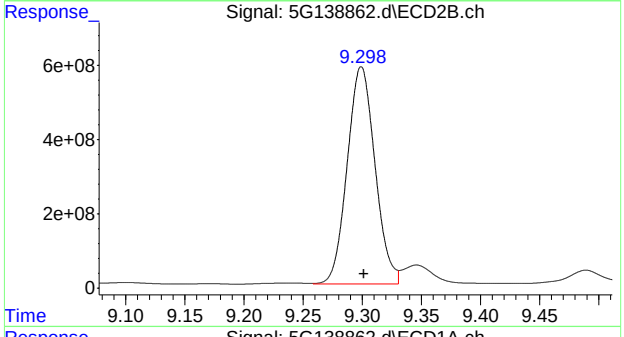
9.1.9

9



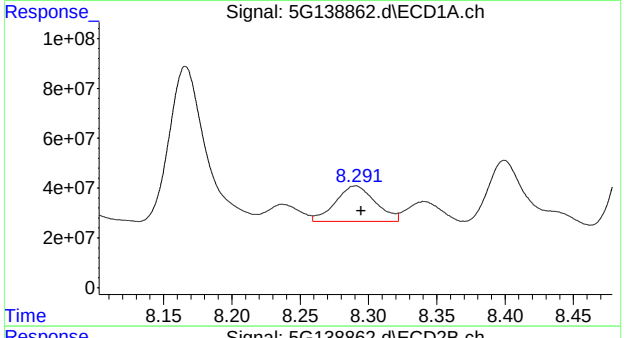
#15 4,4'-DDE

R.T.: 7.927 min
Delta R.T.: -0.003 min
Response: 15815728769
Conc: 26.96 PPB m



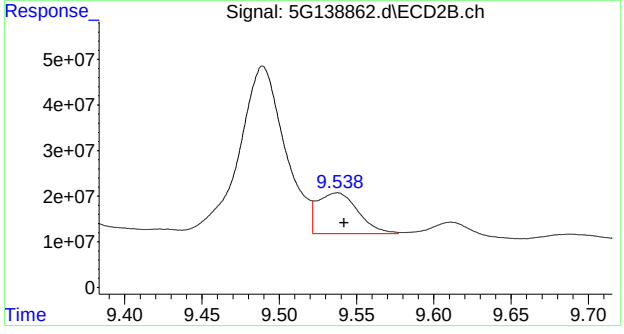
#15 4,4'-DDE

R.T.: 9.298 min
Delta R.T.: -0.003 min
Response: 9584154279
Conc: 17.16 PPB m



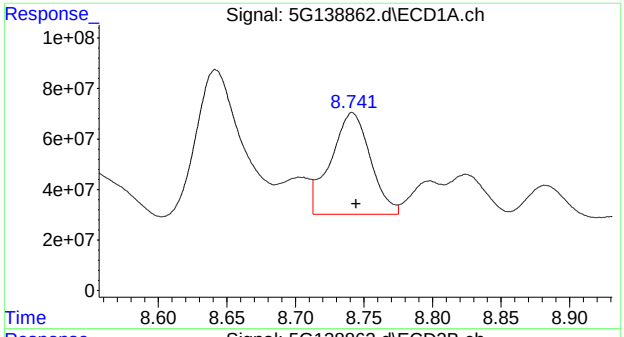
#16 Dieldrin

R.T.: 8.291 min
Delta R.T.: -0.003 min
Response: 289718318
Conc: 0.42 PPB m



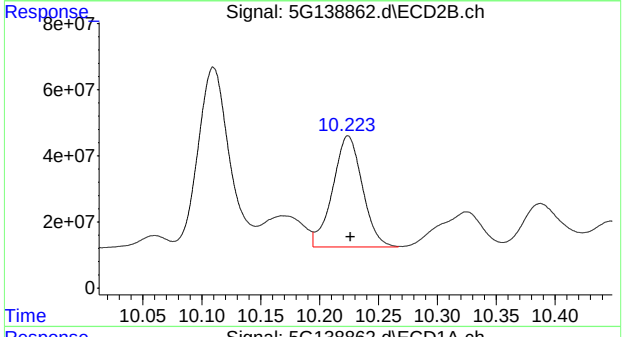
#16 Dieldrin

R.T.: 9.538 min
Delta R.T.: -0.004 min
Response: 161072634
Conc: 0.27 PPB m



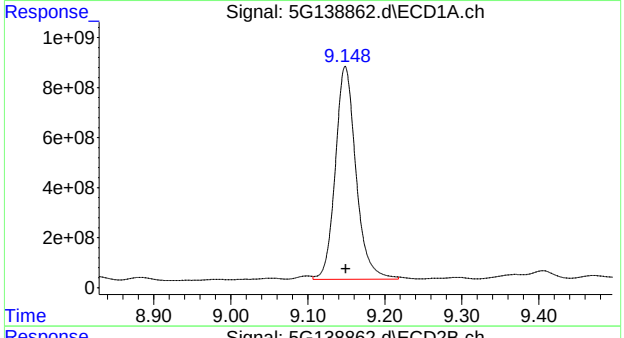
#18 4,4'-DDD

R.T.: 8.741 min
Delta R.T.: -0.003 min
Response: 802811065
Conc: 1.58 PPB m



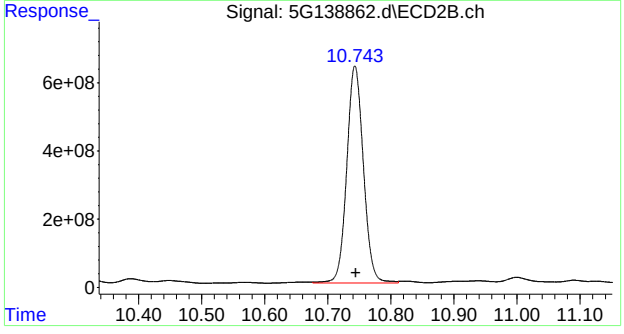
#18 4,4'-DDD

R.T.: 10.223 min
Delta R.T.: -0.003 min
Response: 588002825
Conc: 1.65 PPB m



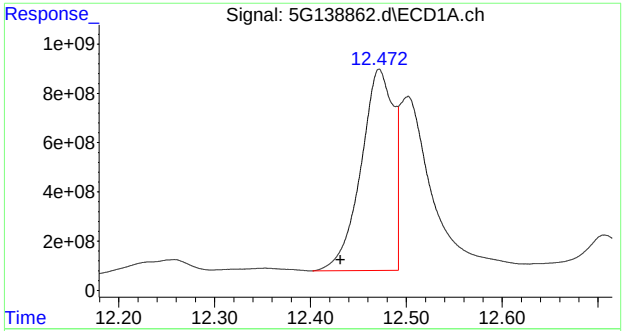
#20 4,4'-DDT

R.T.: 9.148 min
Delta R.T.: -0.001 min
Response: 15837744913
Conc: 33.98 PPB m



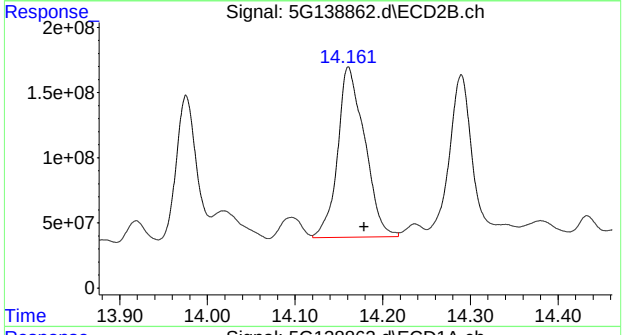
#20 4,4'-DDT

R.T.: 10.743 min
Delta R.T.: -0.001 min
Response: 11653892550
Conc: 31.30 PPB m



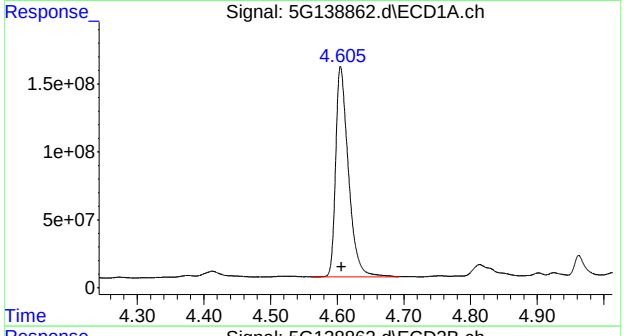
#26 Decachlorobiphenyl

R.T.: 12.472 min
Delta R.T.: 0.041 min
Response: 19388859649
Conc: 32.67 PPB m



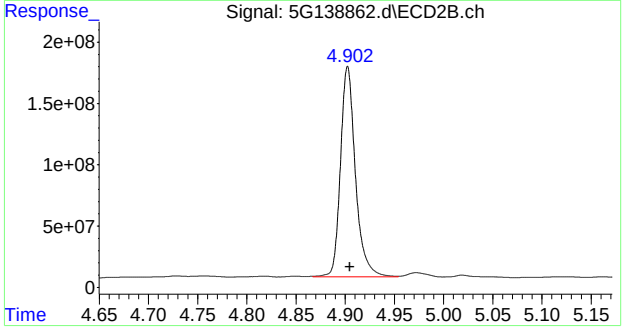
#26 Decachlorobiphenyl

R.T.: 14.161 min
Delta R.T.: -0.018 min
Response: 2801871896
Conc: 7.73 PPB m



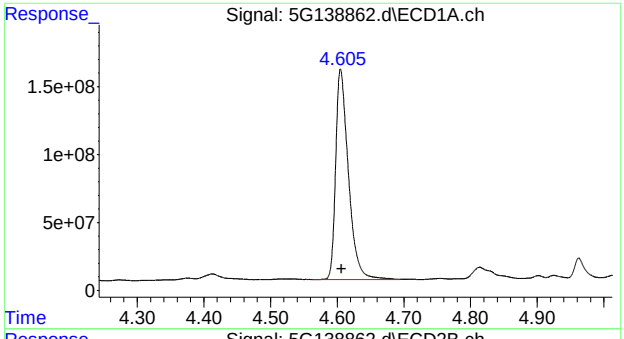
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.605 min
Delta R.T.: 0.000 min
Response: 2049805868
Conc: 5.00 PPB



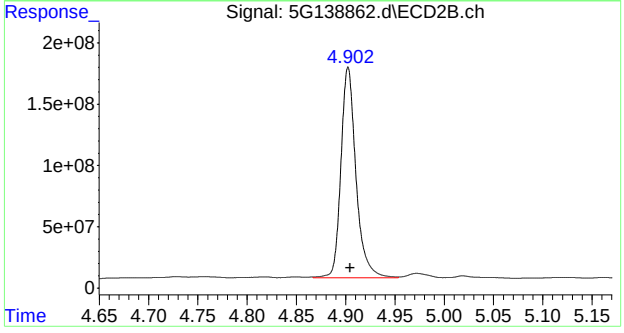
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.902 min
Delta R.T.: -0.002 min
Response: 1818426984
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.605 min
Delta R.T.: 0.000 min
Response: 2049805868
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.902 min
Delta R.T.: -0.002 min
Response: 1825883939
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/02/24 13:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\carlos\g5g3661\
Data File : 5G138909.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 8:14 am
Operator : christp
Sample : jd91204-5 m
Misc : op55761,G5G3661,5.4,,,10,10
ALS Vial : 72 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 15:25:52 2024
Quant Method : C:\msdchem\1\data\carlos\g5g3661\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Tue Jul 02 07:23:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.609	4.909	1676.4E6	2161.4E6	5.000m	5.000
27)	I 1-bromo-2...	4.609	4.909	1662.7E6	2161.4E6	5.000	5.000
33)	I 1-bromo-2...	4.609	4.909	1662.7E6	2161.4E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.240	5.726	44200100	170.3E6	0.245m	0.295m
	Spiked Amount 40.000	Range 30 - 150		Recovery =		0.61%#	0.74%#
26)	SA Decachlor...	12.467f	14.168	817.5E6	131.0E6	1.684m	0.305m#
	Spiked Amount 40.000			Recovery =		4.21%	0.76%
	Target Compounds						
11)	B Heptachlo...	7.493	8.543	53569137	40903620	0.101	0.058m#
13)	B alpha-Chl...	7.798	9.036	175.7E6	86027617	0.328	0.118m#
15)	B 4,4'-DDE	7.933	9.306	1446.8E6	1227.8E6	3.016m	1.854m#
16)	MA Dieldrin	8.299	9.543	28283031	42784481	0.050m	0.062m
18)	A 4,4'-DDD	8.746	10.227	42619922	66286067	0.102m	0.157m#
20)	MA 4,4'-DDT	9.154	10.748	1673.4E6	1569.8E6	4.390m	3.555m
	SemiQuant Compounds - Not Calibrated on this Instrument						

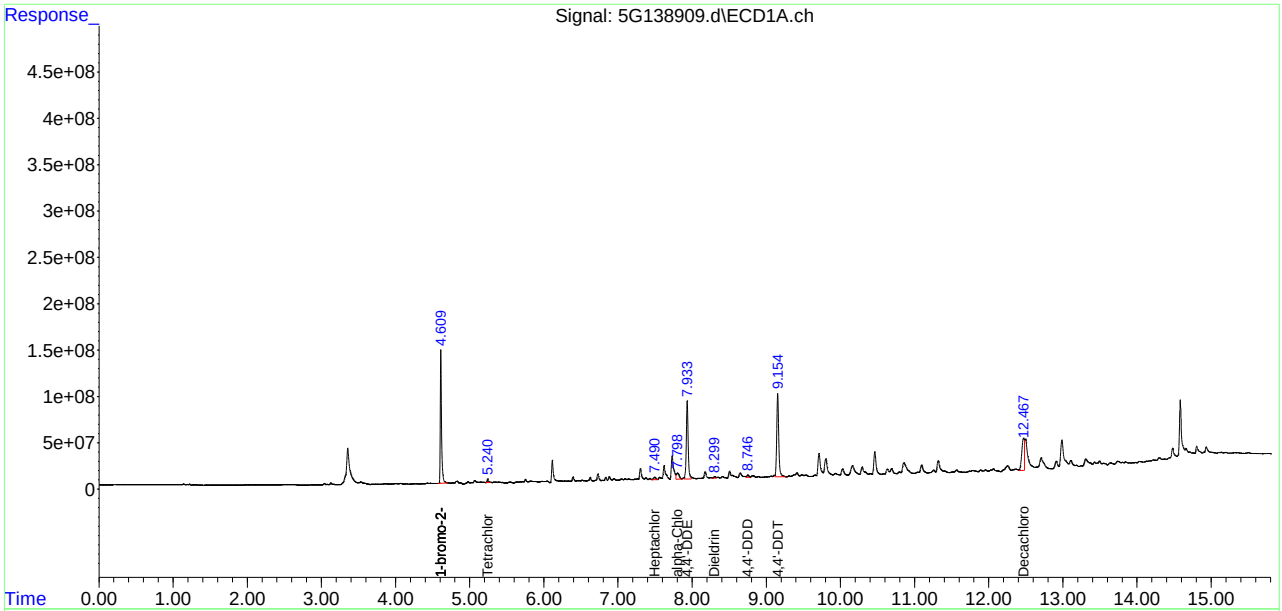
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

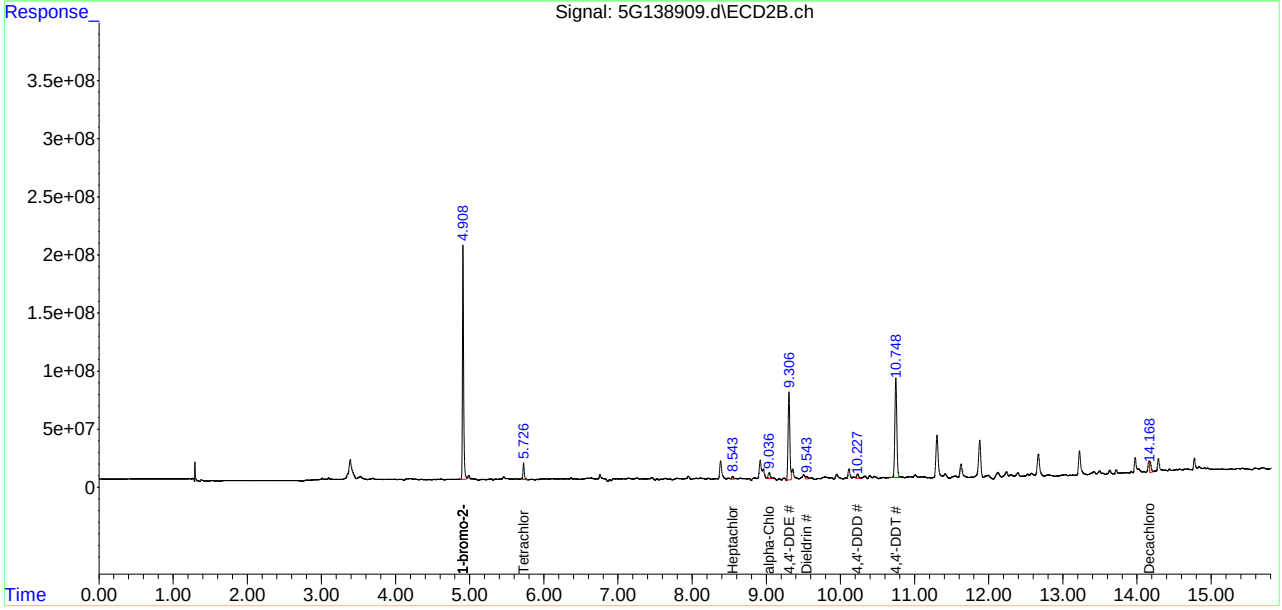
Quantitation Report (QT Reviewed)

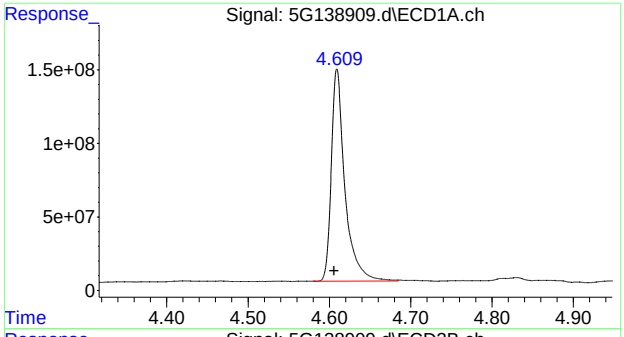
Data Path : C:\msdchem\1\data\carlos\g5g3661\
Data File : 5G138909.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 8:14 am
Operator : christp
Sample : jd91204-5 m
Misc : op55761,G5G3661,5.4,,,10,10
ALS Vial : 72 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 15:25:52 2024
Quant Method : C:\msdchem\1\data\carlos\g5g3661\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Tue Jul 02 07:23:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

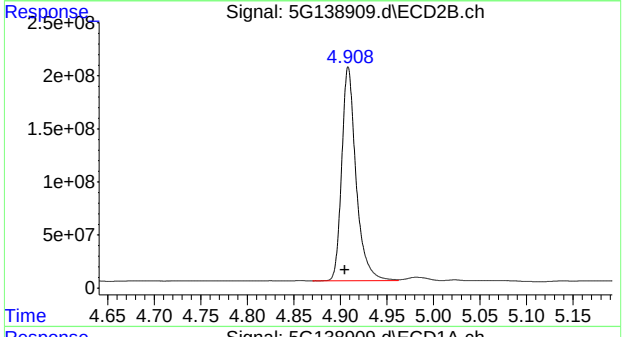






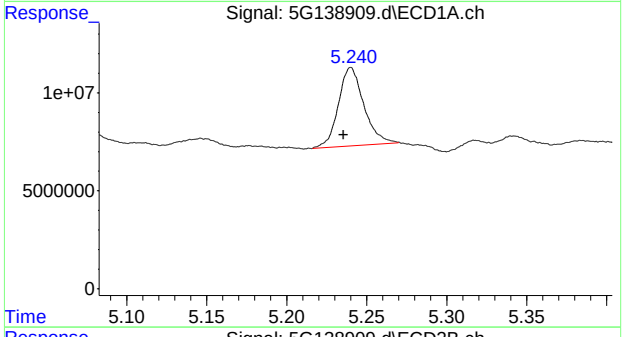
#1 1-bromo-2-nitrobenzene

R.T.: 4.609 min
Delta R.T.: 0.003 min
Response: 1676415341
Conc: 5.00 PPB m



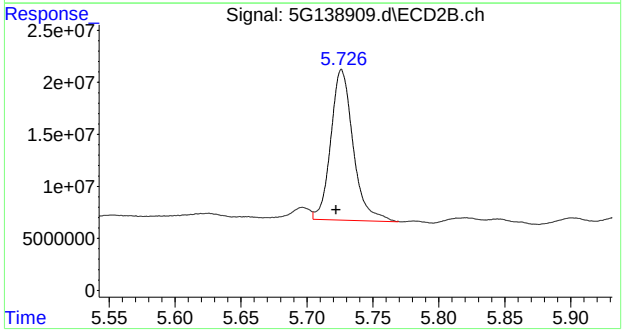
#1 1-bromo-2-nitrobenzene

R.T.: 4.909 min
Delta R.T.: 0.004 min
Response: 2161351970
Conc: 5.00 PPB



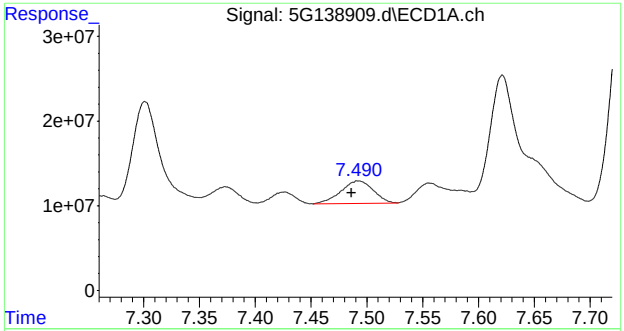
#2 Tetrachloro-m-xylene

R.T.: 5.240 min
Delta R.T.: 0.005 min
Response: 44200100
Conc: 0.24 PPB m



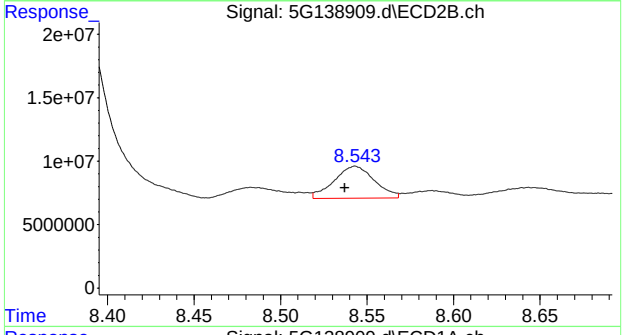
#2 Tetrachloro-m-xylene

R.T.: 5.726 min
Delta R.T.: 0.004 min
Response: 170256409
Conc: 0.30 PPB m



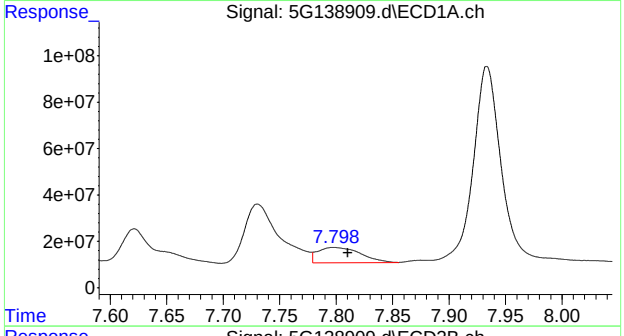
#11 Heptachlor Epoxide

R.T.: 7.493 min
Delta R.T.: 0.007 min
Response: 53569137
Conc: 0.10 PPB



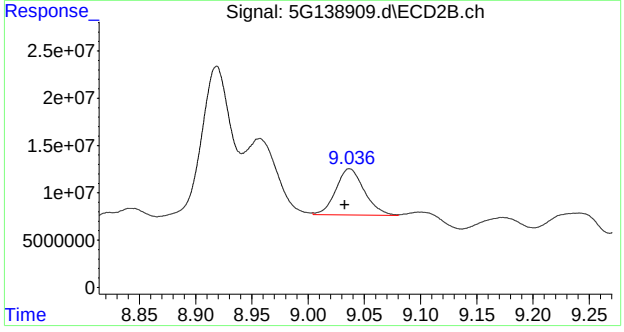
#11 Heptachlor Epoxide

R.T.: 8.543 min
Delta R.T.: 0.006 min
Response: 40903620
Conc: 0.06 PPB m



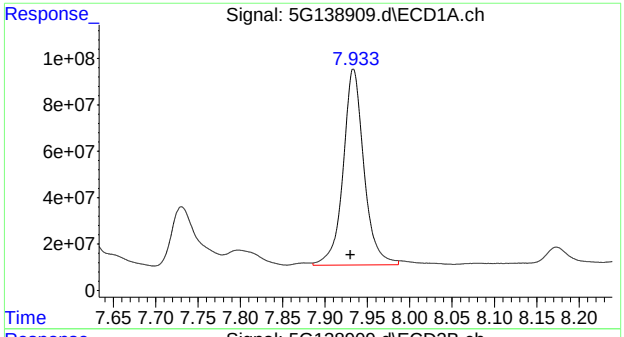
#13 alpha-Chlordane

R.T.: 7.798 min
Delta R.T.: -0.012 min
Response: 175681430
Conc: 0.33 PPB



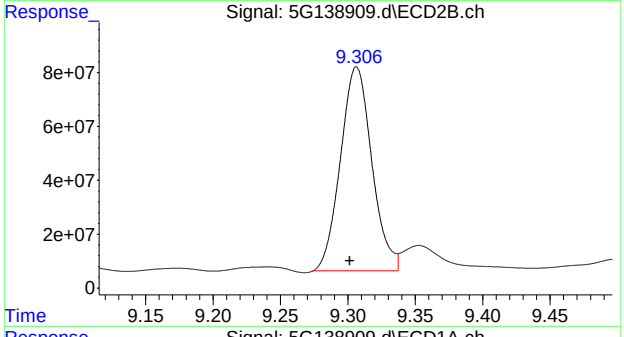
#13 alpha-Chlordane

R.T.: 9.036 min
Delta R.T.: 0.004 min
Response: 86027617
Conc: 0.12 PPB m



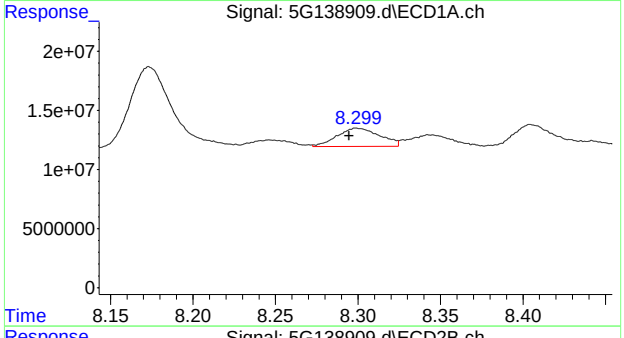
#15 4,4'-DDE

R.T.: 7.933 min
Delta R.T.: 0.003 min
Response: 1446812108
Conc: 3.02 PPB m



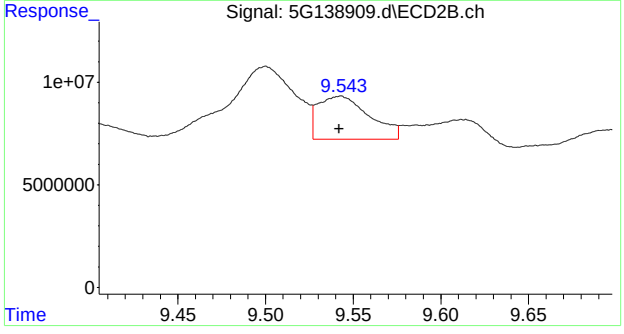
#15 4,4'-DDE

R.T.: 9.306 min
Delta R.T.: 0.005 min
Response: 1227791006
Conc: 1.85 PPB m



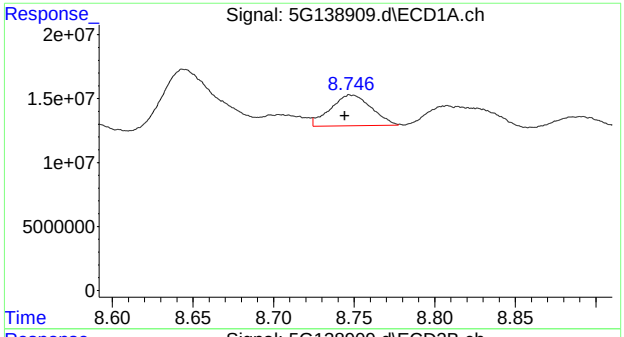
#16 Dieldrin

R.T.: 8.299 min
Delta R.T.: 0.004 min
Response: 28283031
Conc: 0.05 PPB m



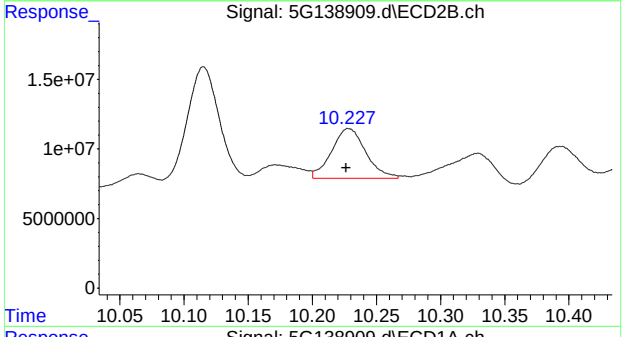
#16 Dieldrin

R.T.: 9.543 min
Delta R.T.: 0.001 min
Response: 42784481
Conc: 0.06 PPB m



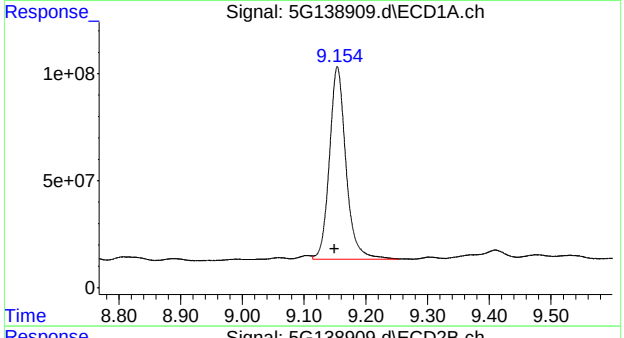
#18 4,4'-DDD

R.T.: 8.746 min
Delta R.T.: 0.002 min
Response: 42619922
Conc: 0.10 PPB m



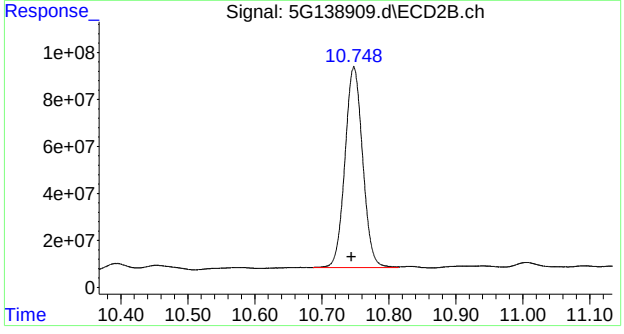
#18 4,4'-DDD

R.T.: 10.227 min
Delta R.T.: 0.000 min
Response: 66286067
Conc: 0.16 PPB m



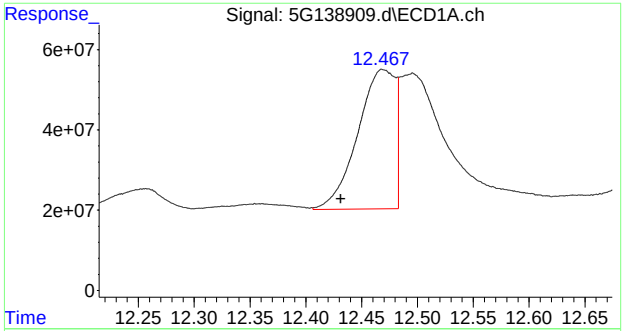
#20 4,4'-DDT

R.T.: 9.154 min
Delta R.T.: 0.004 min
Response: 1673359270
Conc: 4.39 PPB m



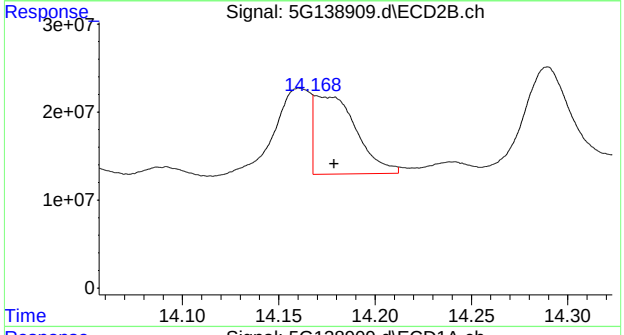
#20 4,4'-DDT

R.T.: 10.748 min
Delta R.T.: 0.003 min
Response: 1569782172
Conc: 3.55 PPB m



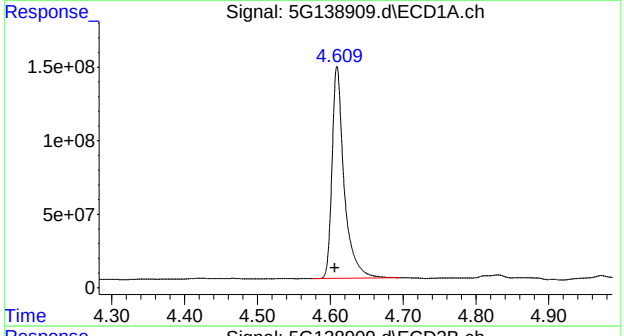
#26 Decachlorobiphenyl

R.T.: 12.467 min
Delta R.T.: 0.036 min
Response: 817536736
Conc: 1.68 PPB m



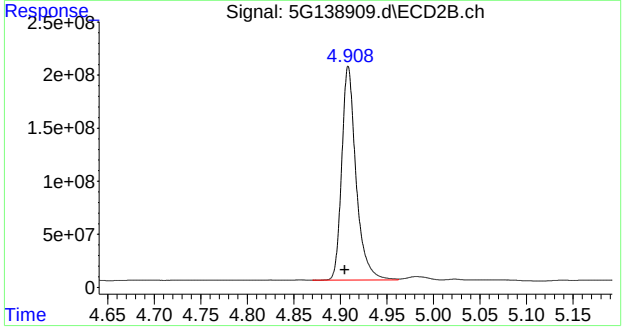
#26 Decachlorobiphenyl

R.T.: 14.168 min
Delta R.T.: -0.011 min
Response: 130963815
Conc: 0.30 PPB m



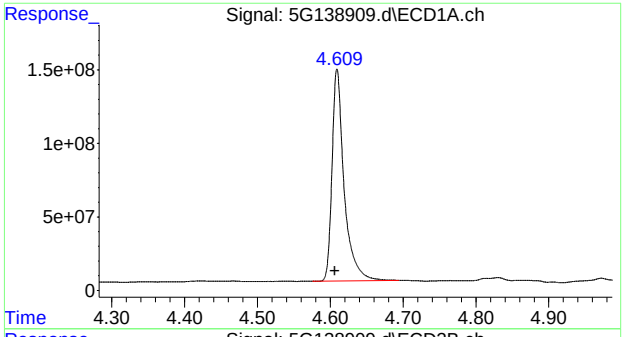
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.609 min
Delta R.T.: 0.003 min
Response: 1662654037
Conc: 5.00 PPB



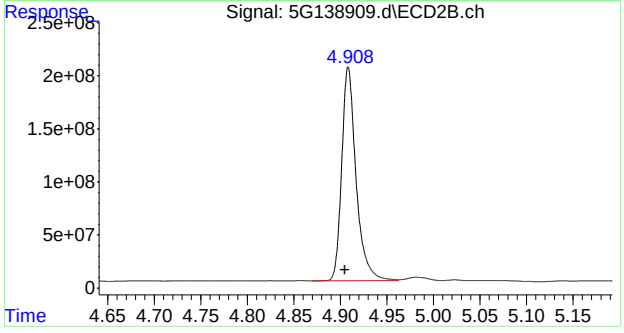
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.909 min
Delta R.T.: 0.004 min
Response: 2161351970
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.609 min
Delta R.T.: 0.003 min
Response: 1662654037
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.909 min
Delta R.T.: 0.004 min
Response: 2161351970
Conc: 5.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
07/01/24 09:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g5g3659\
Data File : 5G138863.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 3:58 am
Operator : christp
Sample : jd91204-6 m
Misc : op55761,G5G3659,5.4,,,10,1
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 09:31:14 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.611	4.903	4305.1E6	1847.3E6	5.000m	5.000m
27)	I 1-bromo-2...	4.611	4.903	4312.3E6	1849.0E6	5.000m	5.000m
33)	I 1-bromo-2...	4.611	4.903	4315.5E6	1844.6E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.234	5.720	421.1E6	1368.7E6	0.907m	2.777m#
	Spiked Amount 40.000	Range 30 - 150		Recovery =		2.27%#	6.94%#
26)	SA Decachlor...	12.446f	14.177	2513.6E6	1384.9E6	2.016m	3.770m#
	Spiked Amount 40.000			Recovery =		5.04%	9.43%
	Target Compounds						
6)	MA Heptachlor	6.470	7.313	348.0E6	348.7E6	0.228m	0.787m#
11)	B Heptachlo...	7.485	8.537	171.5E6	153.0E6	0.126m	0.252m#
12)	B gamma-Chl...	7.642	8.838f	780.5E6	10240.4E6	0.537m	16.026m#
13)	B alpha-Chl...	7.797	9.031	734.0E6	257.9E6	0.534m	0.415m
15)	B 4,4'-DDE	7.915f	9.300	235.4E6	43725274	0.191m	0.077m#
16)	MA Dieldrin	8.307	9.557f	119.5E6	39509554	0.083m	0.067m
18)	A 4,4'-DDD	8.749	10.221	40783911	22422077	0.038m	0.062m#
20)	MA 4,4'-DDT	9.143	10.744	234.2E6	210.2E6	0.239m	0.557m#
	SemiQuant Compounds - Not Calibrated on this Instrument						

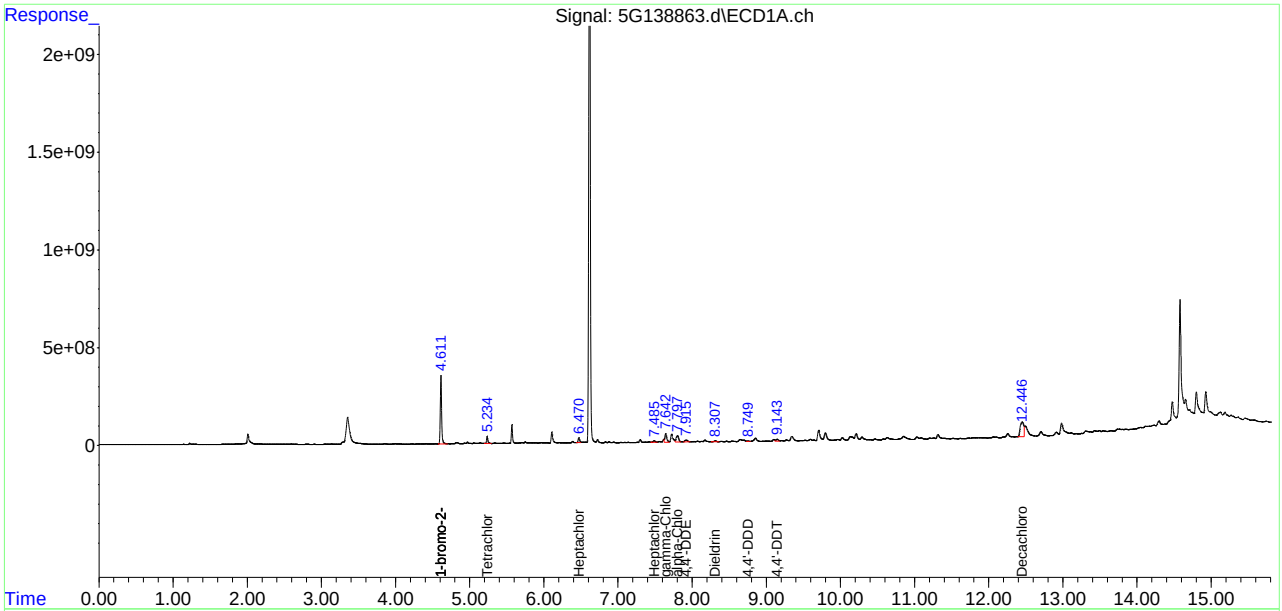
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

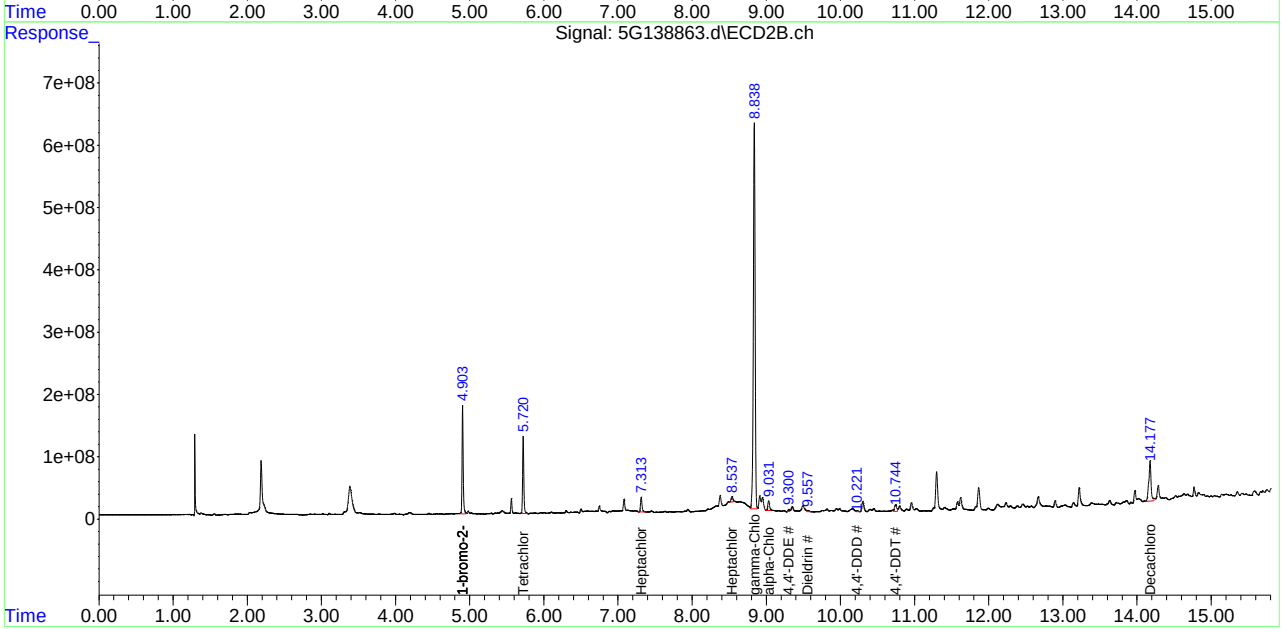
Quantitation Report (QT Reviewed)

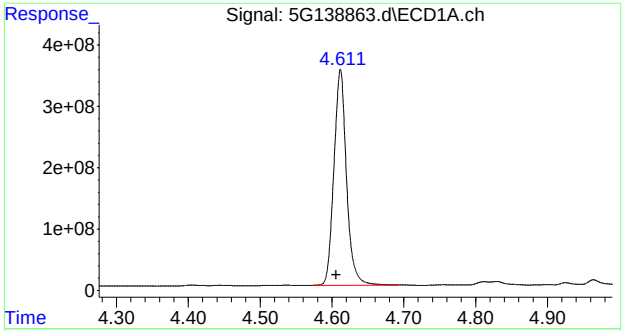
Data Path : C:\msdchem\1\data\g5g3659\
Data File : 5G138863.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 3:58 am
Operator : christp
Sample : jd91204-6 m
Misc : op55761,G5G3659,5.4,,,10,1
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 09:31:14 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

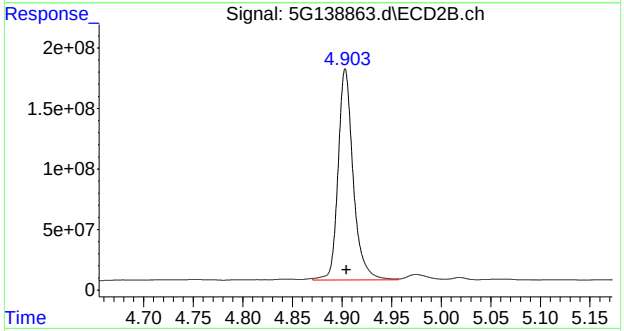






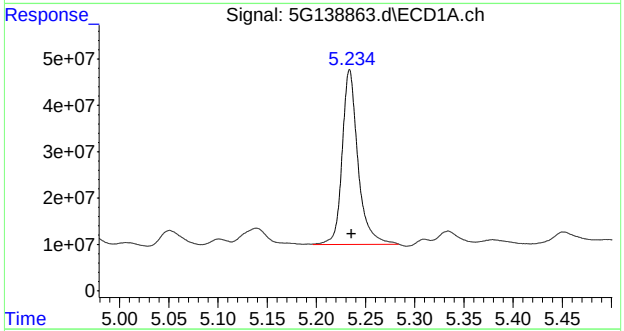
#1 1-bromo-2-nitrobenzene

R.T.: 4.611 min
Delta R.T.: 0.005 min
Response: 4305138832
Conc: 5.00 PPB m



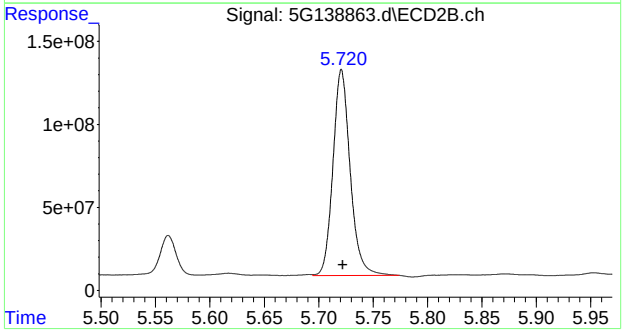
#1 1-bromo-2-nitrobenzene

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 1847287952
Conc: 5.00 PPB m



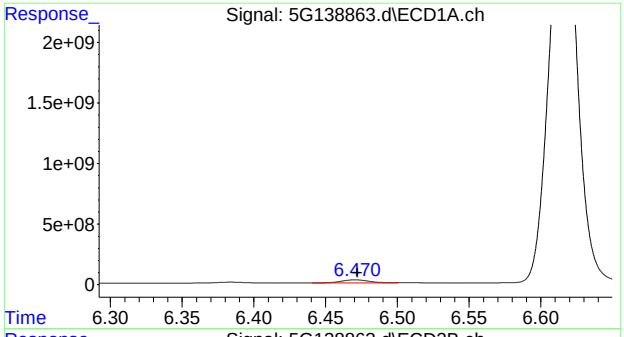
#2 Tetrachloro-m-xylene

R.T.: 5.234 min
Delta R.T.: -0.002 min
Response: 421091276
Conc: 0.91 PPB m



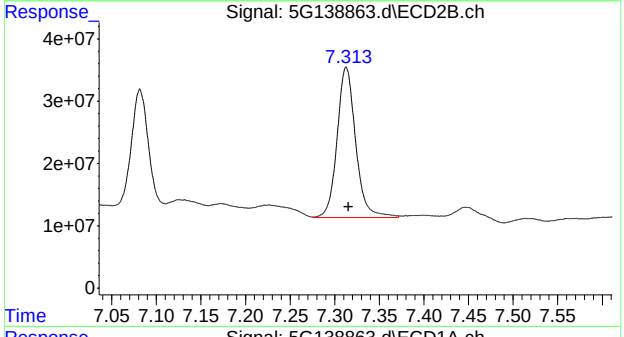
#2 Tetrachloro-m-xylene

R.T.: 5.720 min
Delta R.T.: -0.002 min
Response: 1368739249
Conc: 2.78 PPB m



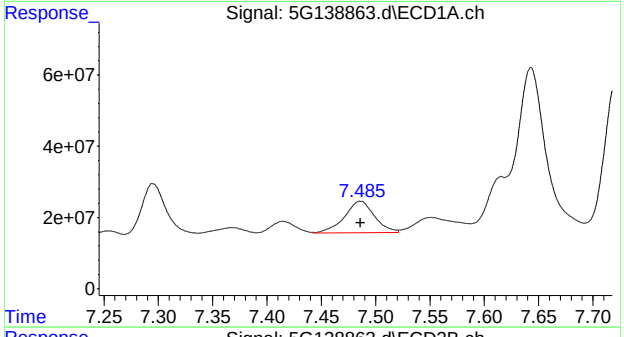
#6 Heptachlor

R.T.: 6.470 min
Delta R.T.: -0.002 min
Response: 348027868
Conc: 0.23 PPB m



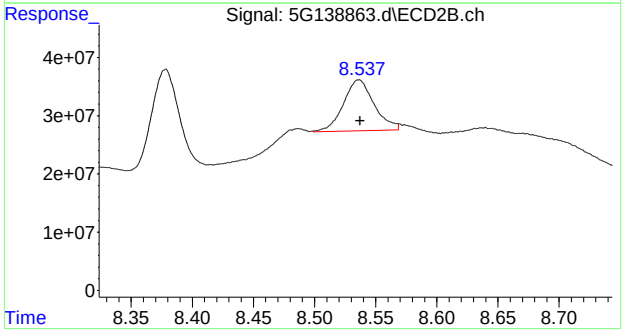
#6 Heptachlor

R.T.: 7.313 min
Delta R.T.: -0.003 min
Response: 348716814
Conc: 0.79 PPB m



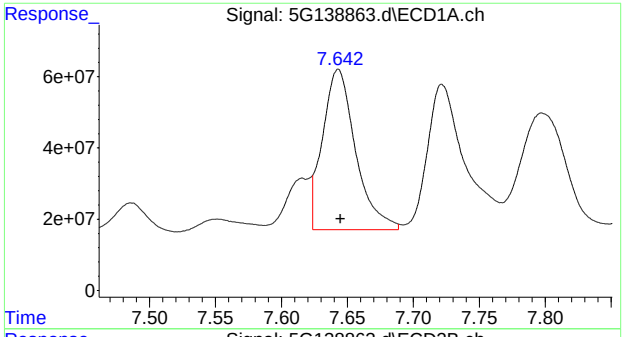
#11 Heptachlor Epoxide

R.T.: 7.485 min
Delta R.T.: 0.000 min
Response: 171507501
Conc: 0.13 PPB m



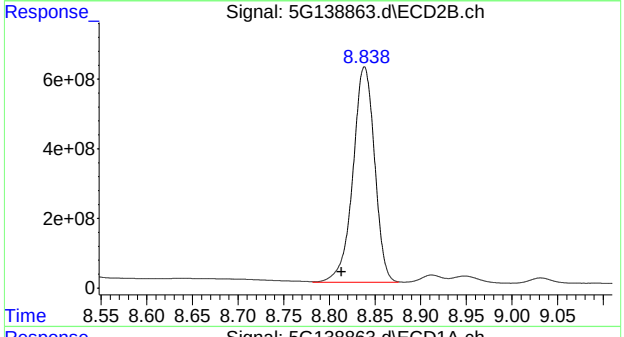
#11 Heptachlor Epoxide

R.T.: 8.537 min
Delta R.T.: 0.000 min
Response: 152952635
Conc: 0.25 PPB m



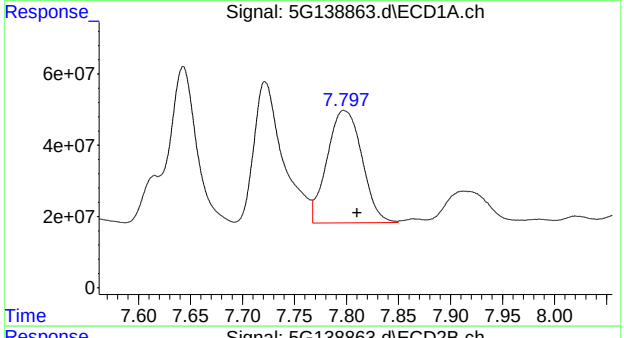
#12 gamma-Chlordane

R.T.: 7.642 min
Delta R.T.: -0.002 min
Response: 780499801
Conc: 0.54 PPB m



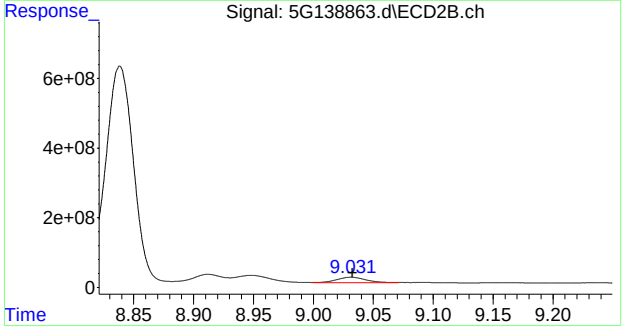
#12 gamma-Chlordane

R.T.: 8.838 min
Delta R.T.: 0.025 min
Response: 10240420494
Conc: 16.03 PPB m



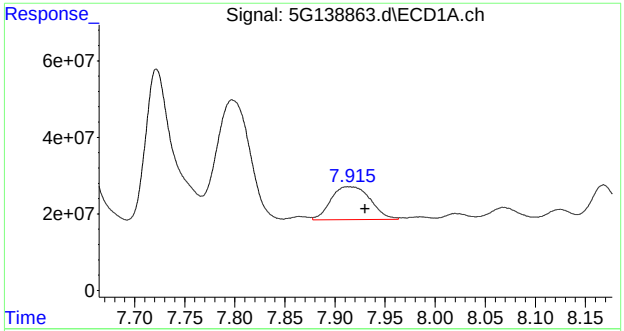
#13 alpha-Chlordane

R.T.: 7.797 min
Delta R.T.: -0.013 min
Response: 734011061
Conc: 0.53 PPB m



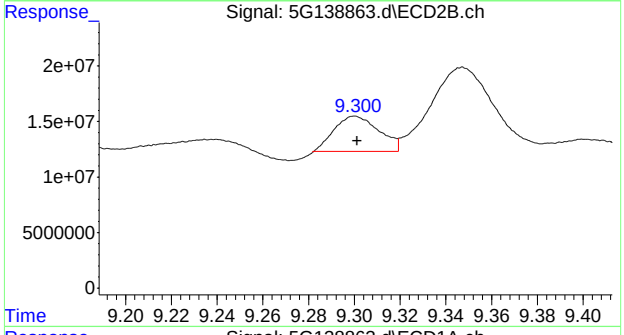
#13 alpha-Chlordane

R.T.: 9.031 min
Delta R.T.: -0.002 min
Response: 257889435
Conc: 0.41 PPB m



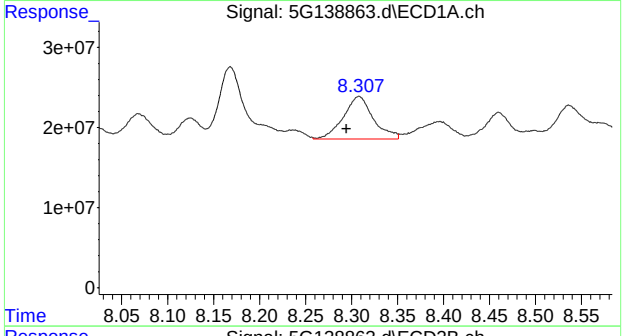
#15 4,4'-DDE

R.T.: 7.915 min
Delta R.T.: -0.015 min
Response: 235358569
Conc: 0.19 PPB m



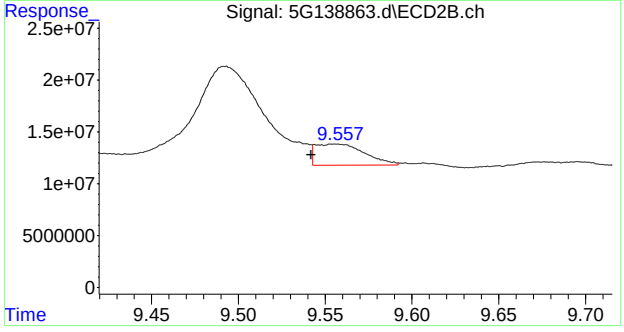
#15 4,4'-DDE

R.T.: 9.300 min
Delta R.T.: 0.000 min
Response: 43725274
Conc: 0.08 PPB m



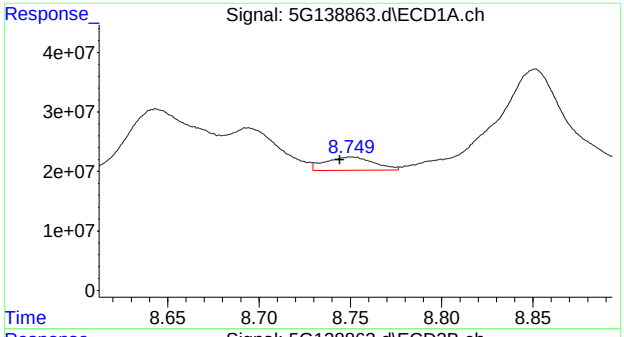
#16 Dieldrin

R.T.: 8.307 min
Delta R.T.: 0.013 min
Response: 119487820
Conc: 0.08 PPB m



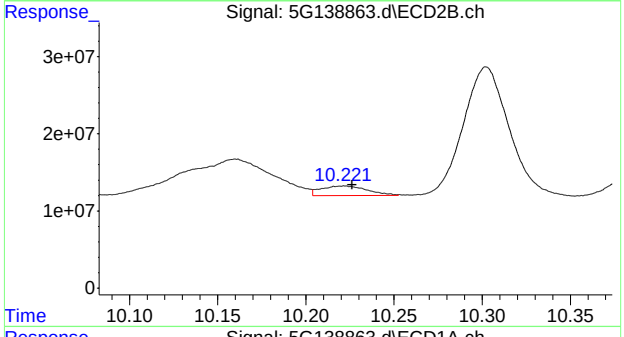
#16 Dieldrin

R.T.: 9.557 min
Delta R.T.: 0.016 min
Response: 39509554
Conc: 0.07 PPB m



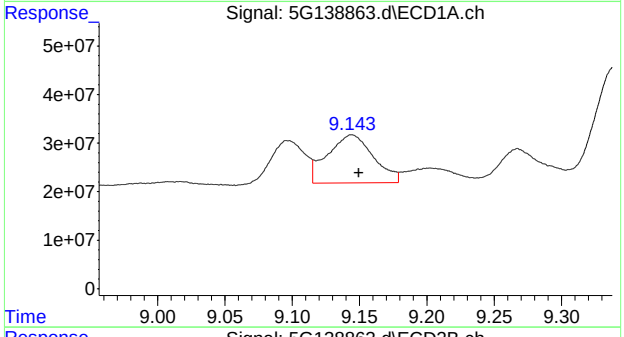
#18 4,4'-DDD

R.T.: 8.749 min
Delta R.T.: 0.005 min
Response: 40783911
Conc: 0.04 PPB m



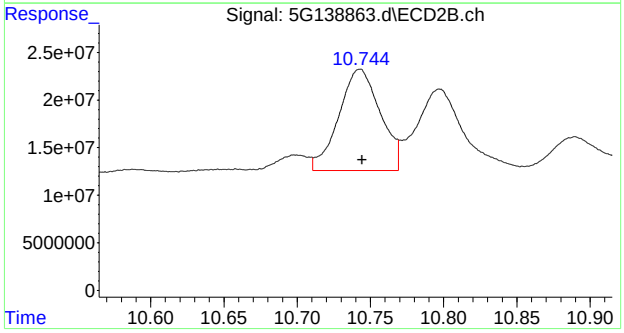
#18 4,4'-DDD

R.T.: 10.221 min
Delta R.T.: -0.005 min
Response: 22422077
Conc: 0.06 PPB m



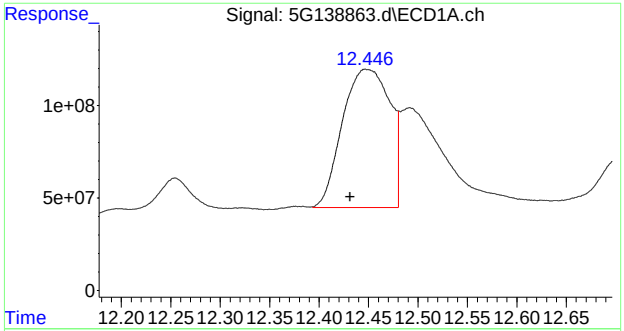
#20 4,4'-DDT

R.T.: 9.143 min
Delta R.T.: -0.007 min
Response: 234159391
Conc: 0.24 PPB m



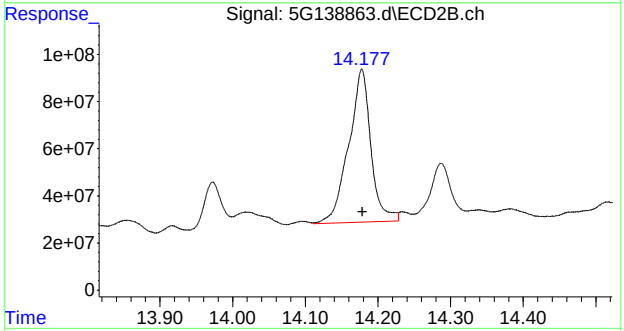
#20 4,4'-DDT

R.T.: 10.744 min
Delta R.T.: 0.000 min
Response: 210226707
Conc: 0.56 PPB m



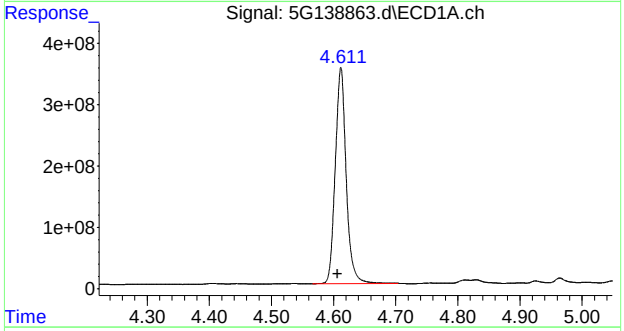
#26 Decachlorobiphenyl

R.T.: 12.446 min
Delta R.T.: 0.015 min
Response: 2513591260
Conc: 2.02 PPB m



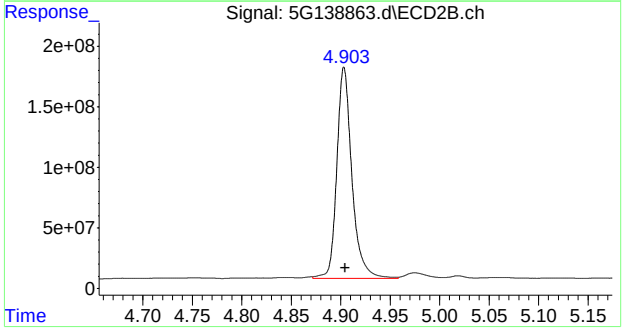
#26 Decachlorobiphenyl

R.T.: 14.177 min
Delta R.T.: -0.002 min
Response: 1384942060
Conc: 3.77 PPB m



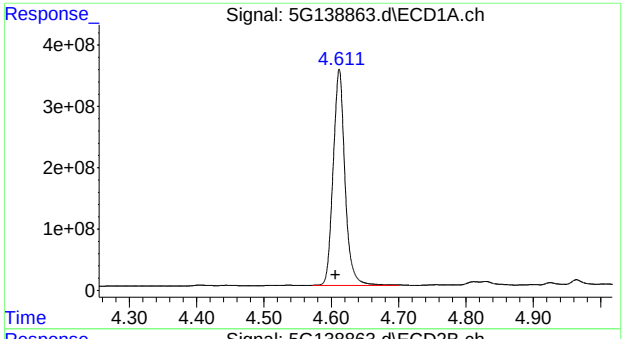
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.611 min
Delta R.T.: 0.005 min
Response: 4312269192
Conc: 5.00 PPB m



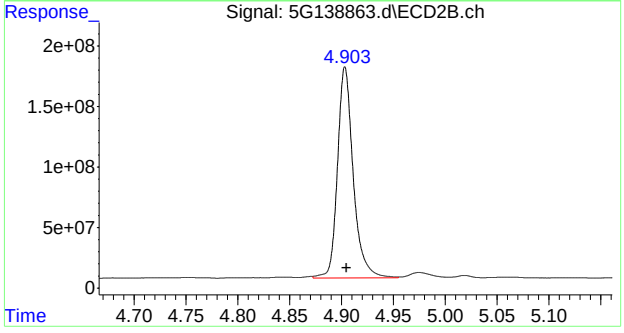
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 1848965361
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.611 min
Delta R.T.: 0.005 min
Response: 4315513058
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 1844578534
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/02/24 13:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\g5g3659\
Data File : 5G138864.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 4:19 am
Operator : christp
Sample : jd91204-7 m
Misc : op55761,G5G3659,5.1,,,10,1
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:32:57 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.605	4.903	2173.7E6	1945.4E6	5.000m	5.000m
27)	I 1-bromo-2...	4.605	4.903	2180.9E6	1954.1E6	5.000m	5.000m
33)	I 1-bromo-2...	4.605	4.903	2176.1E6	1951.1E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.233	5.720	405.6E6	1287.5E6	1.730m	2.480m#
	Spiked Amount 40.000	Range 30 - 150		Recovery =		4.32%#	6.20%#
26)	SA Decachlor...	12.461f	14.177	4475.3E6	1420.1E6	7.111m	3.671m#
	Spiked Amount 40.000			Recovery =		17.78%	9.18%
	Target Compounds						
6)	MA Heptachlor	6.470	7.314	147.4E6	144.7E6	0.192m	0.310m#
11)	B Heptachlo...	7.488	8.535	459.9E6	168.8E6	0.670m	0.264m#
12)	B gamma-Chl...	7.644	8.813	8888.7E6	7023.2E6	12.111m	10.437m
13)	B alpha-Chl...	7.806	9.032	8439.2E6	4621.0E6	12.165m	7.057m#
15)	B 4,4'-DDE	7.922	9.299	695.7E6	161.4E6	1.118m	0.271m#
16)	MA Dieldrin	8.296	9.540	390.1E6	297.7E6	0.534m	0.476m
18)	A 4,4'-DDD	8.743	10.223	113.7E6	89175095	0.211m	0.235m
20)	MA 4,4'-DDT	9.145	10.743	812.6E6	681.8E6	1.644m	1.715m
	SemiQuant Compounds - Not Calibrated on this Instrument						

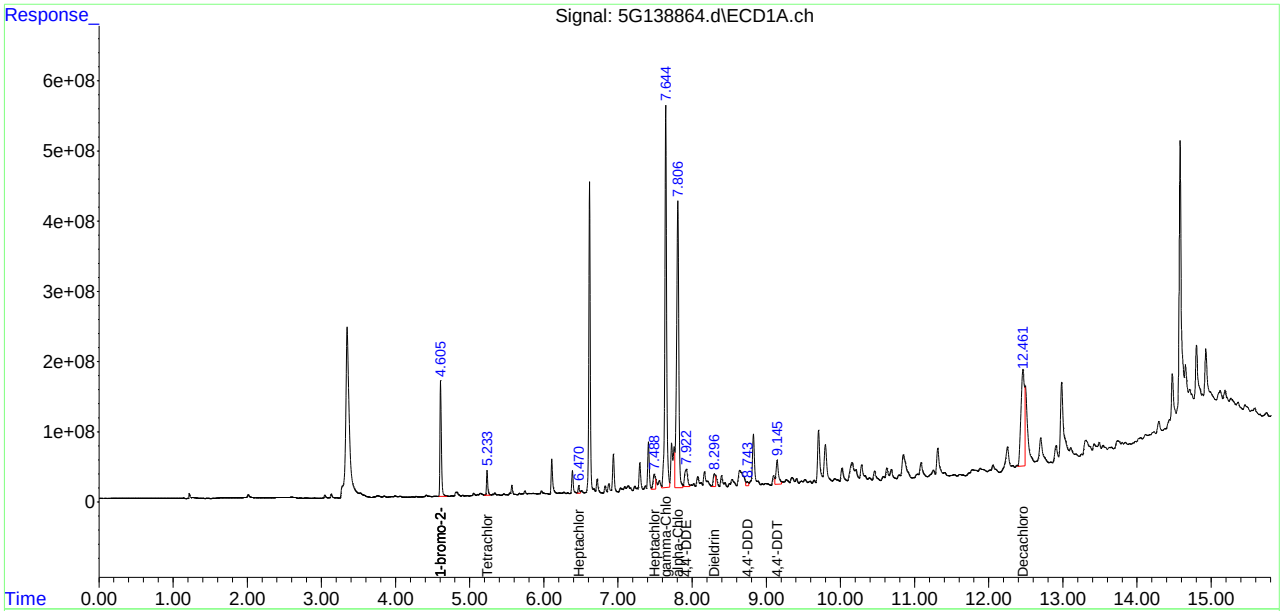
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

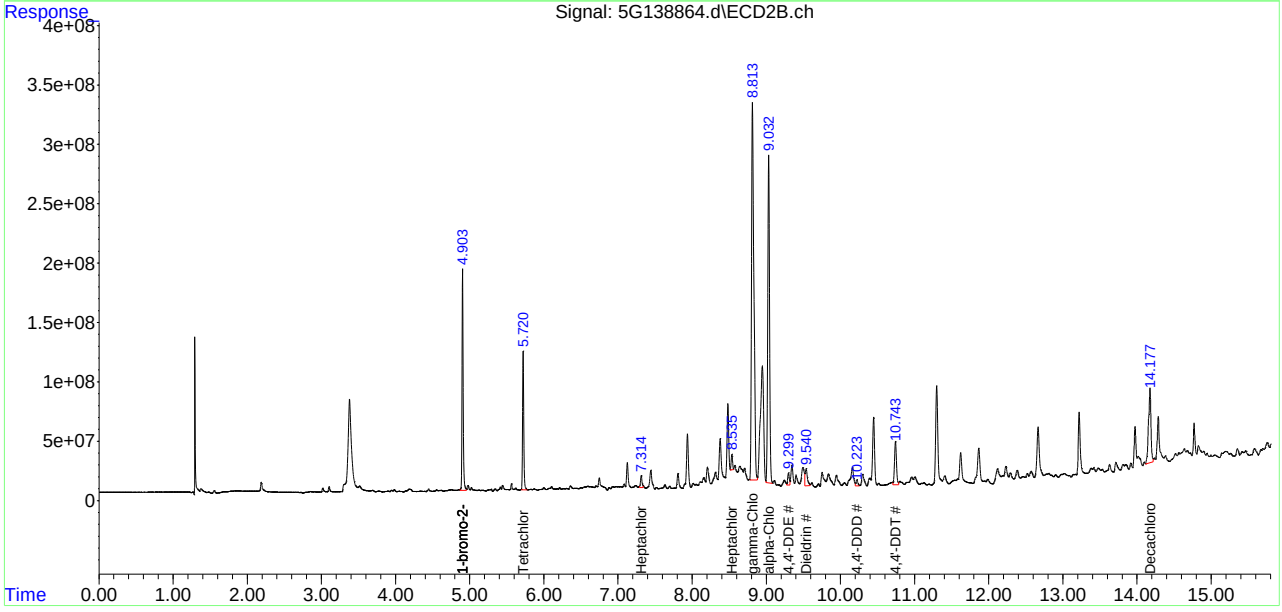
Quantitation Report (QT Reviewed)

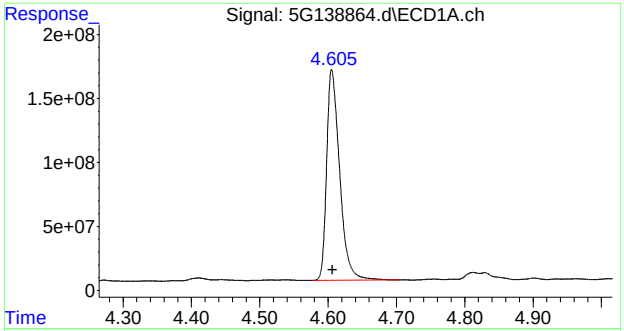
Data Path : C:\msdchem\1\data\laylanie\g5g3659\
Data File : 5G138864.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 4:19 am
Operator : christp
Sample : jd91204-7 m
Misc : op55761,G5G3659,5.1,,,10,1
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:32:57 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

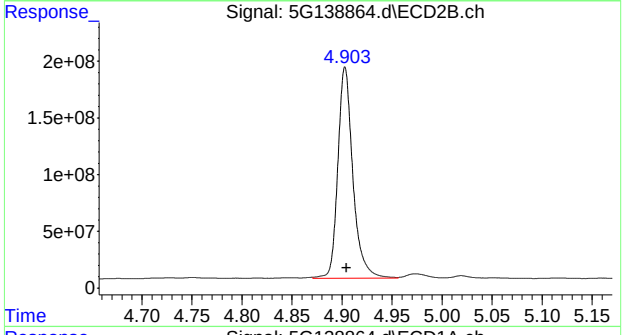






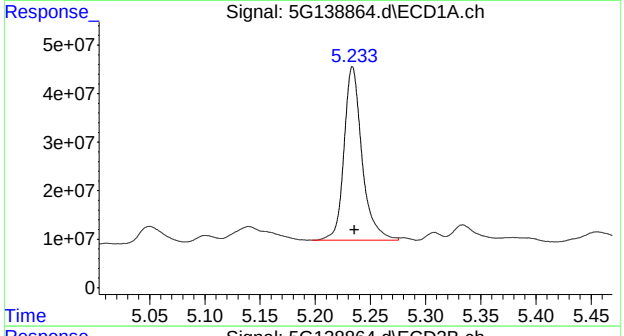
#1 1-bromo-2-nitrobenzene

R.T.: 4.605 min
Delta R.T.: -0.001 min
Response: 2173656208
Conc: 5.00 PPB m



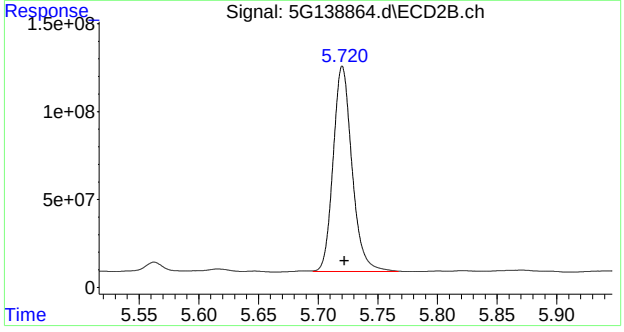
#1 1-bromo-2-nitrobenzene

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 1945363062
Conc: 5.00 PPB m



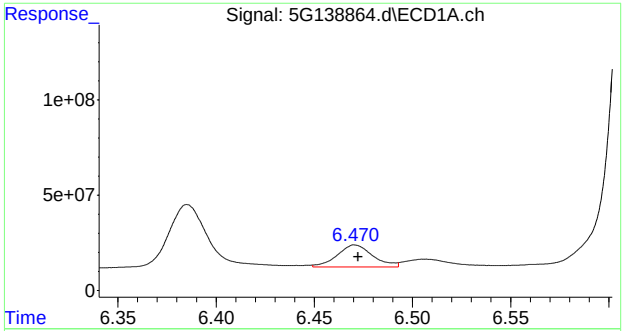
#2 Tetrachloro-m-xylene

R.T.: 5.233 min
Delta R.T.: -0.002 min
Response: 405571089
Conc: 1.73 PPB m



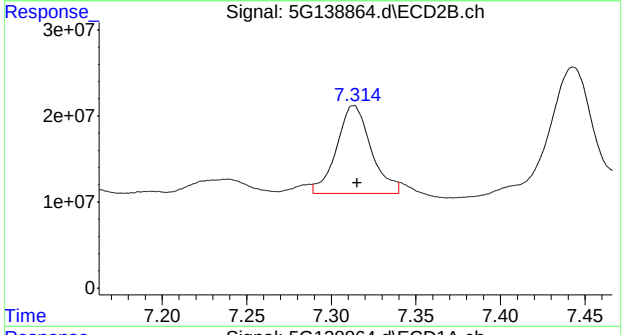
#2 Tetrachloro-m-xylene

R.T.: 5.720 min
Delta R.T.: -0.002 min
Response: 1287523720
Conc: 2.48 PPB m



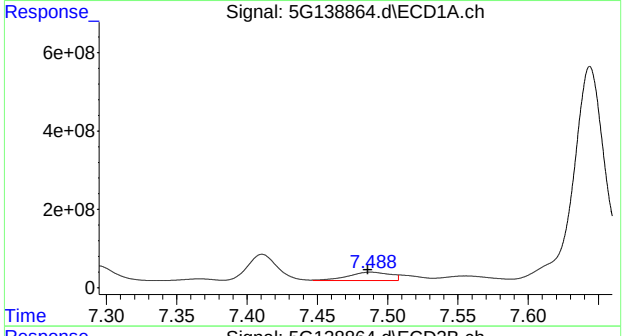
#6 Heptachlor

R.T.: 6.470 min
Delta R.T.: -0.003 min
Response: 147392667
Conc: 0.19 PPB m



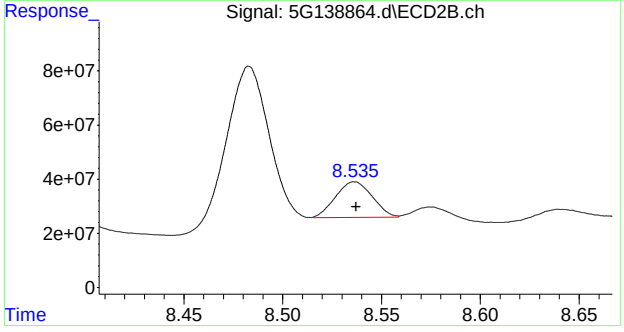
#6 Heptachlor

R.T.: 7.314 min
Delta R.T.: -0.001 min
Response: 144706697
Conc: 0.31 PPB m



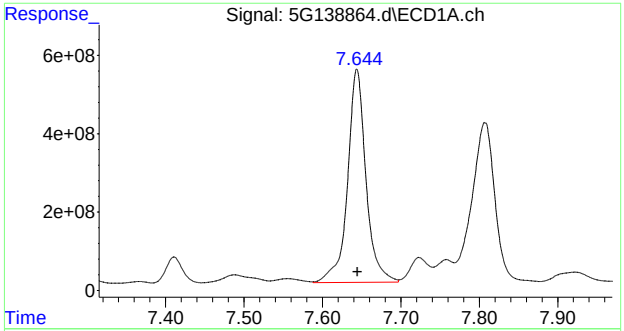
#11 Heptachlor Epoxide

R.T.: 7.488 min
Delta R.T.: 0.002 min
Response: 459914075
Conc: 0.67 PPB m



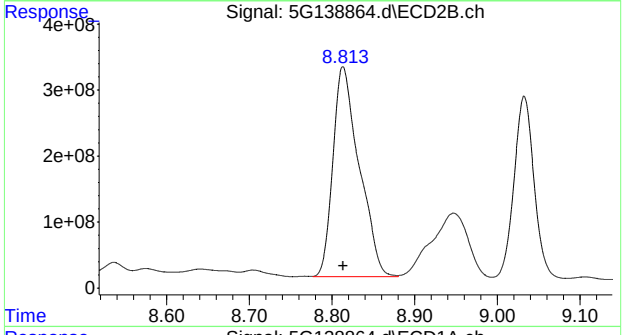
#11 Heptachlor Epoxide

R.T.: 8.535 min
Delta R.T.: -0.002 min
Response: 168820624
Conc: 0.26 PPB m



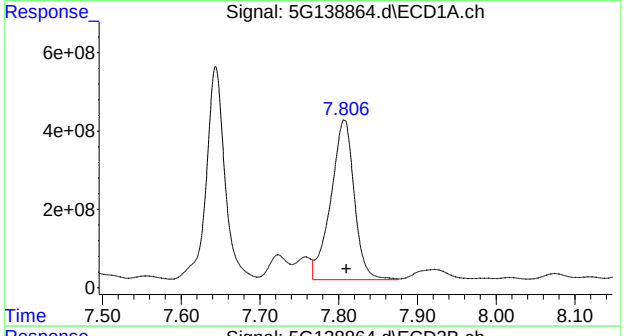
#12 gamma-Chlordane

R.T.: 7.644 min
Delta R.T.: -0.001 min
Response: 8888713052
Conc: 12.11 PPB m



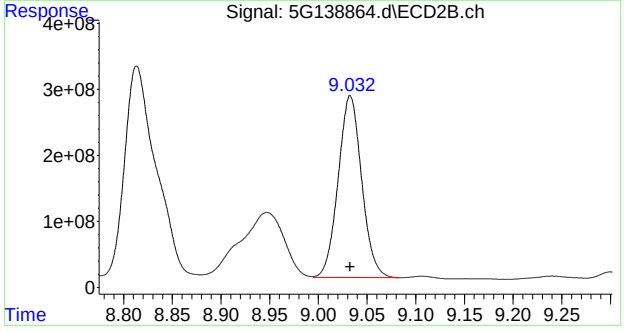
#12 gamma-Chlordane

R.T.: 8.813 min
Delta R.T.: 0.000 min
Response: 7023248411
Conc: 10.44 PPB m



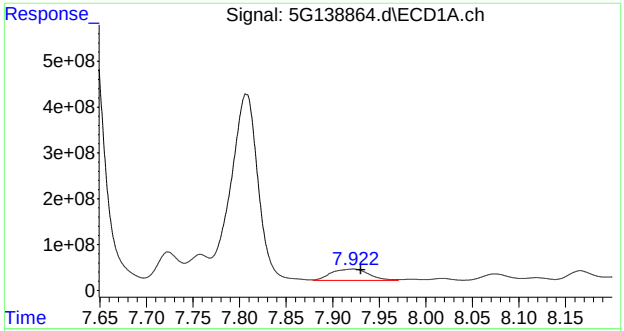
#13 alpha-Chlordane

R.T.: 7.806 min
Delta R.T.: -0.004 min
Response: 8439195520
Conc: 12.17 PPB m



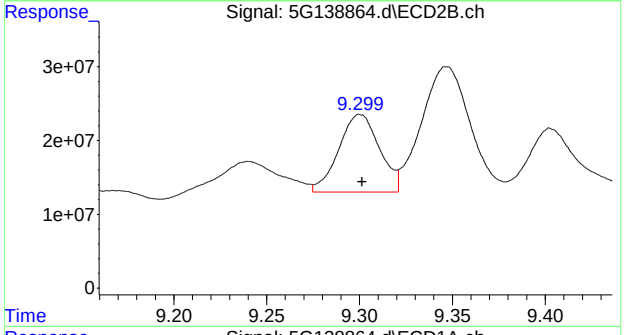
#13 alpha-Chlordane

R.T.: 9.032 min
Delta R.T.: 0.000 min
Response: 4621000544
Conc: 7.06 PPB m



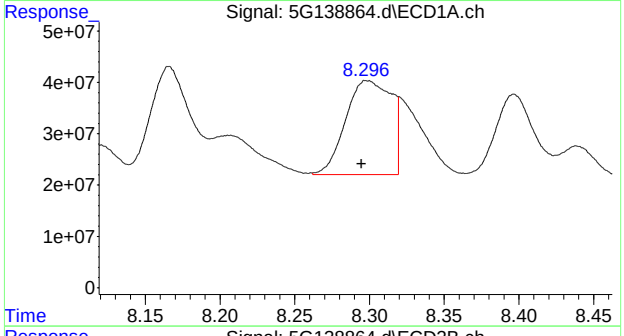
#15 4,4'-DDE

R.T.: 7.922 min
Delta R.T.: -0.008 min
Response: 695659628
Conc: 1.12 PPB m



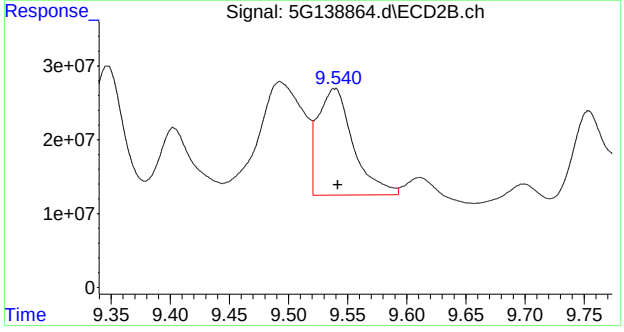
#15 4,4'-DDE

R.T.: 9.299 min
Delta R.T.: -0.002 min
Response: 161440914
Conc: 0.27 PPB m



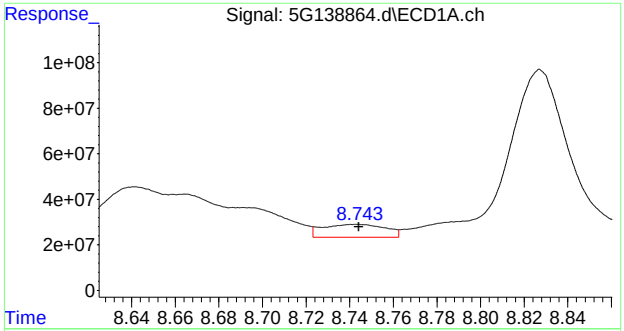
#16 Dieldrin

R.T.: 8.296 min
Delta R.T.: 0.001 min
Response: 390084784
Conc: 0.53 PPB m



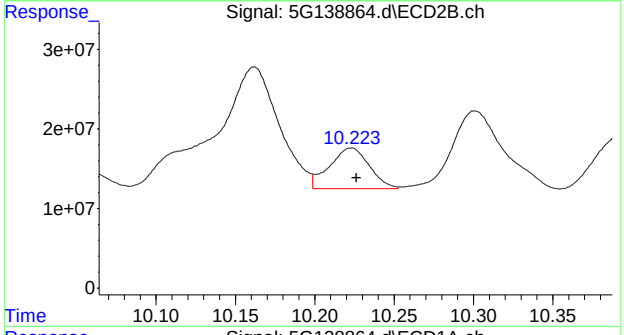
#16 Dieldrin

R.T.: 9.540 min
Delta R.T.: -0.002 min
Response: 297743344
Conc: 0.48 PPB m



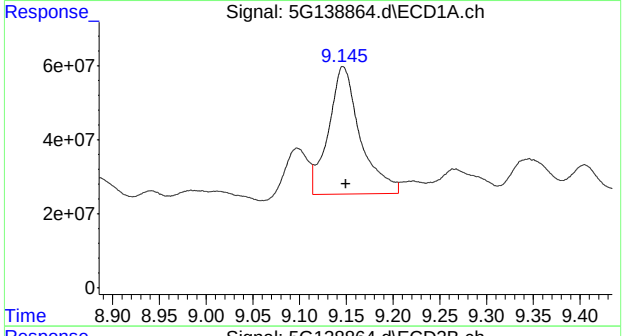
#18 4,4'-DDD

R.T.: 8.743 min
Delta R.T.: 0.000 min
Response: 113741822
Conc: 0.21 PPB m



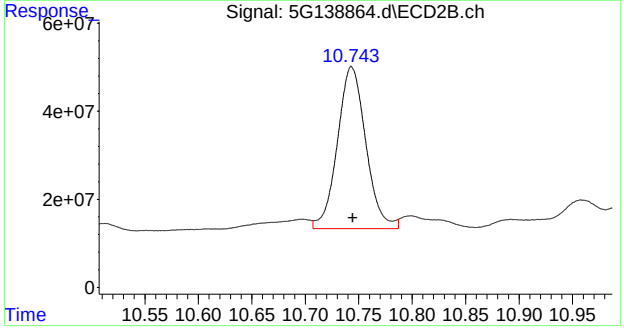
#18 4,4'-DDD

R.T.: 10.223 min
Delta R.T.: -0.003 min
Response: 89175095
Conc: 0.23 PPB m



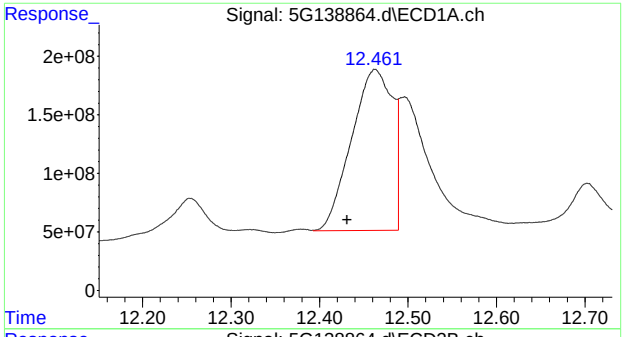
#20 4,4'-DDT

R.T.: 9.145 min
Delta R.T.: -0.004 min
Response: 812610098
Conc: 1.64 PPB m



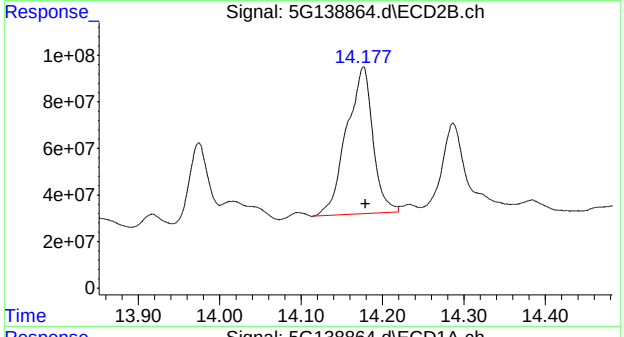
#20 4,4'-DDT

R.T.: 10.743 min
Delta R.T.: -0.002 min
Response: 681794309
Conc: 1.72 PPB m



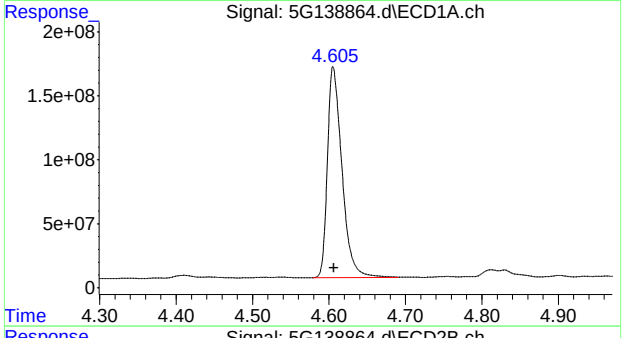
#26 Decachlorobiphenyl

R.T.: 12.461 min
Delta R.T.: 0.030 min
Response: 4475338215
Conc: 7.11 PPB m



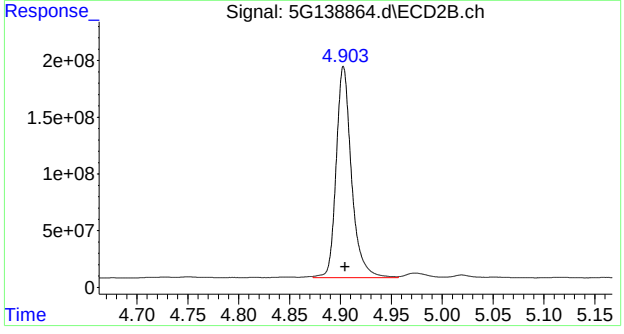
#26 Decachlorobiphenyl

R.T.: 14.177 min
Delta R.T.: -0.002 min
Response: 1420114661
Conc: 3.67 PPB m



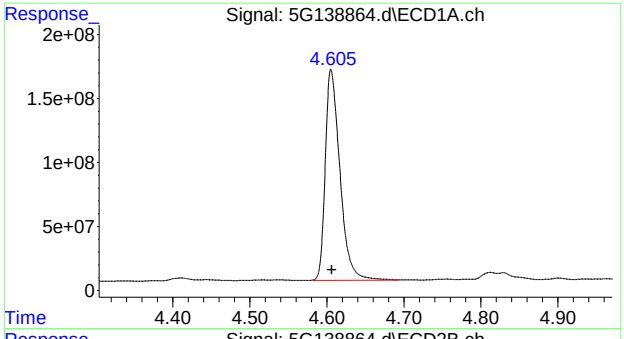
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.605 min
Delta R.T.: -0.001 min
Response: 2180866152
Conc: 5.00 PPB m



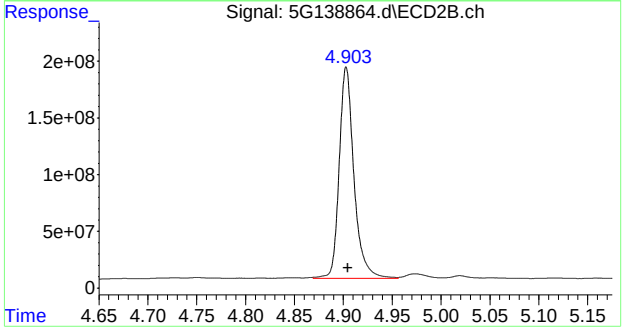
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 1954118569
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.605 min
Delta R.T.: -0.001 min
Response: 2176083999
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 1951080735
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/02/24 13:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g5g3661\
Data File : 5G138910.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 8:35 am
Operator : christp
Sample : jd91204-7 m
Misc : op55761,G5G3661,5.1,,,10,10
ALS Vial : 73 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 11:40:02 2024
Quant Method : C:\msdchem\1\data\carlos\g5g3661\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Tue Jul 02 07:23:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.609	4.908	1775.0E6	2223.0E6	5.000m	5.000m
27)	I 1-bromo-2...	4.609	4.908	1768.0E6	2214.9E6	5.000m	5.000m
33)	I 1-bromo-2...	4.609	4.908	1774.8E6	2220.2E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.239	5.726	93337408	372.9E6	0.488m	0.629m#
	Spiked Amount 40.000	Range 30 - 150		Recovery =		1.22%#	1.57%#
26)	SA Decachlor...	12.458f	14.178	605.7E6	310.8E6	1.179m	0.703m#
	Spiked Amount 40.000			Recovery =		2.95%	1.76%
	Target Compounds						
6)	MA Heptachlor	6.477	7.318	36494655	41481946	0.058m	0.078m#
11)	B Heptachlo...	7.491	8.540	109.4E6	68764418	0.195m	0.094m#
12)	B gamma-Chl...	7.649	8.818	1968.4E6	1379.3E6	3.284	1.794m#
13)	B alpha-Chl...	7.812	9.036	1877.6E6	1409.2E6	3.315m	1.883m#
15)	B 4,4'-DDE	7.925	9.306	143.3E6	67859758	0.282	0.100 #
16)	MA Dieldrin	8.302	9.540	71530293	113.7E6	0.120m	0.159m#
20)	MA 4,4'-DDT	9.150	10.747	195.8E6	203.3E6	0.485m	0.448m

SemiQuant Compounds - Not Calibrated on this Instrument

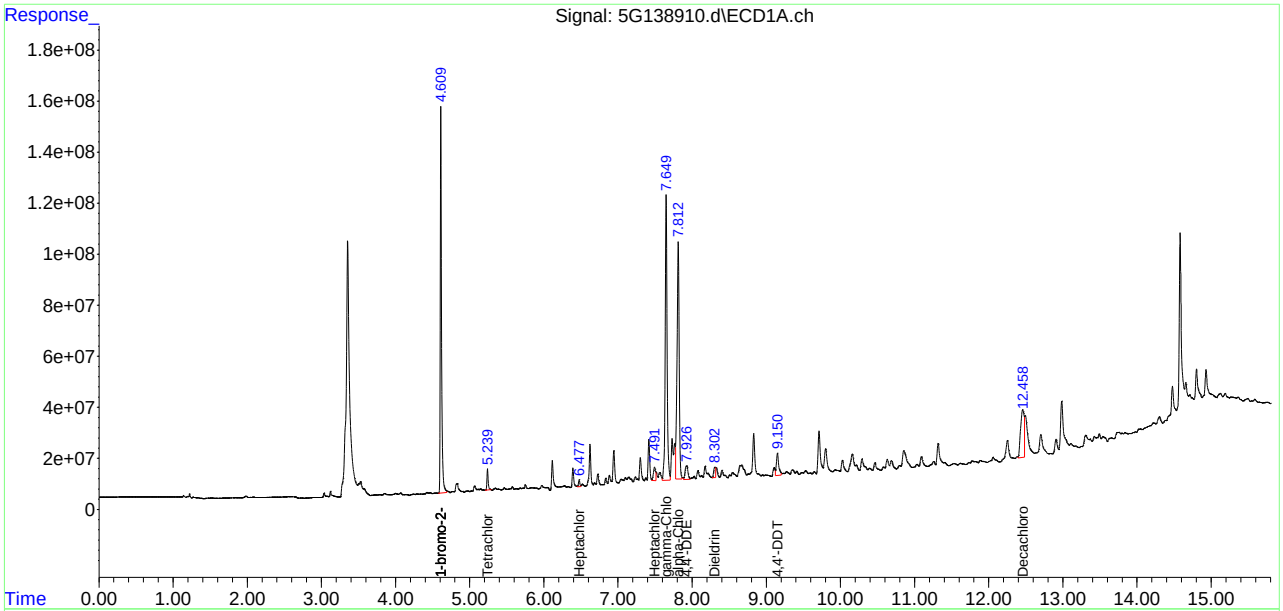
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

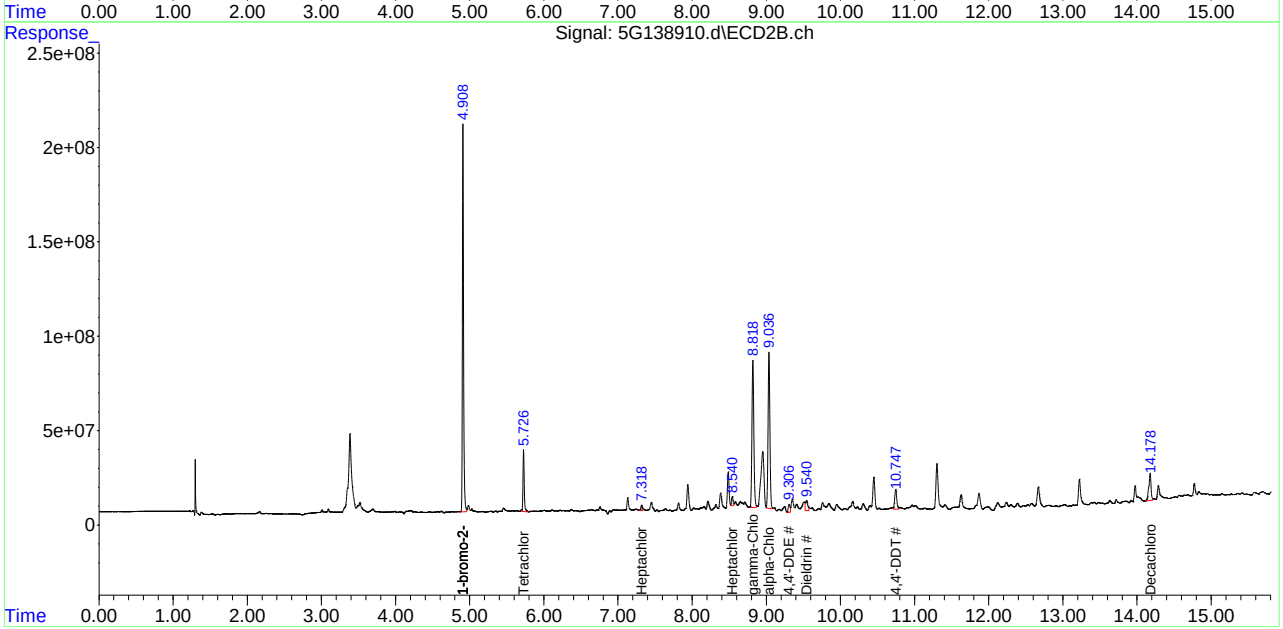
Quantitation Report (QT Reviewed)

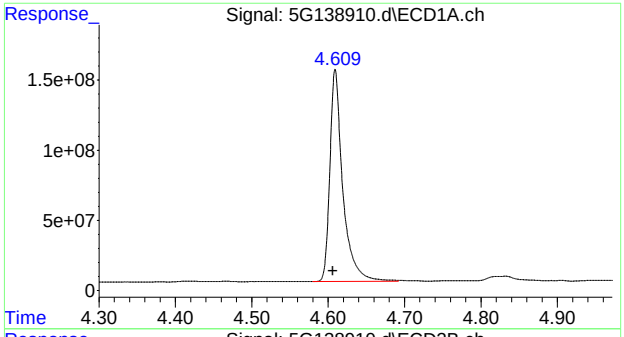
Data Path : C:\msdchem\1\data\g5g3661\
Data File : 5G138910.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 8:35 am
Operator : christp
Sample : jd91204-7 m
Misc : op55761,G5G3661,5.1,,,10,10
ALS Vial : 73 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 11:40:02 2024
Quant Method : C:\msdchem\1\data\carlos\g5g3661\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Tue Jul 02 07:23:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

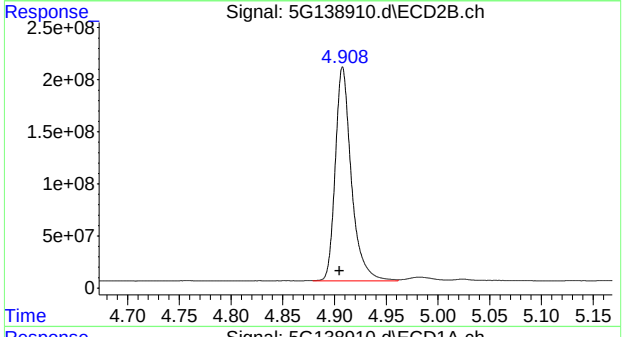






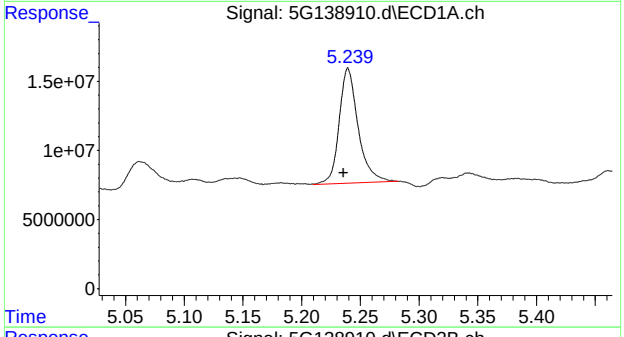
#1 1-bromo-2-nitrobenzene

R.T.: 4.609 min
Delta R.T.: 0.003 min
Response: 1774974547
Conc: 5.00 PPB m



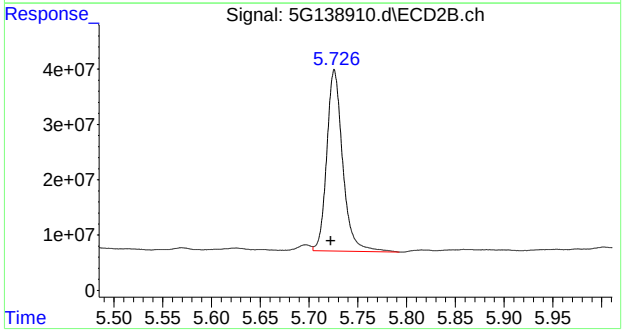
#1 1-bromo-2-nitrobenzene

R.T.: 4.908 min
Delta R.T.: 0.003 min
Response: 2223013704
Conc: 5.00 PPB m



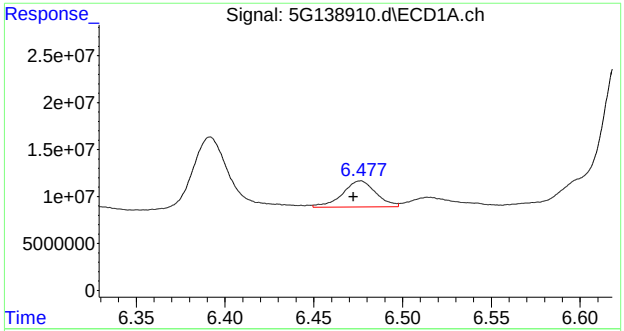
#2 Tetrachloro-m-xylene

R.T.: 5.239 min
Delta R.T.: 0.004 min
Response: 93337408
Conc: 0.49 PPB m



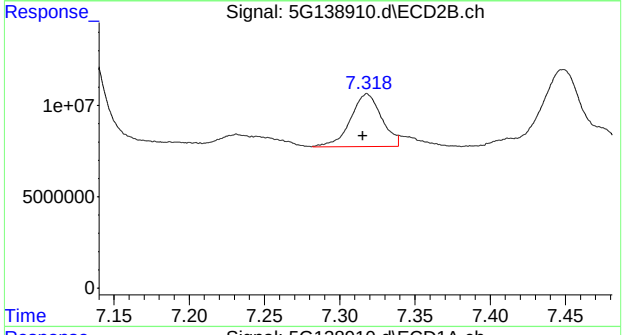
#2 Tetrachloro-m-xylene

R.T.: 5.726 min
Delta R.T.: 0.004 min
Response: 372877679
Conc: 0.63 PPB m



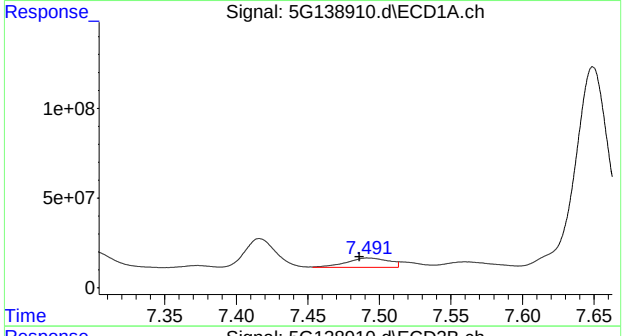
#6 Heptachlor

R.T.: 6.477 min
Delta R.T.: 0.004 min
Response: 36494655
Conc: 0.06 PPB m



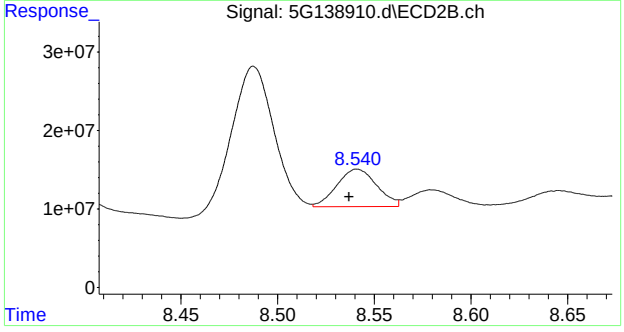
#6 Heptachlor

R.T.: 7.318 min
Delta R.T.: 0.002 min
Response: 41481946
Conc: 0.08 PPB m



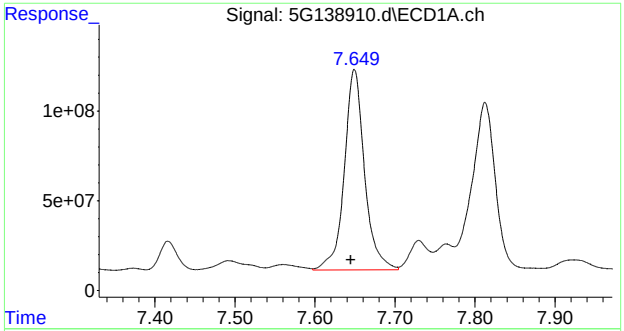
#11 Heptachlor Epoxide

R.T.: 7.491 min
Delta R.T.: 0.005 min
Response: 109395406
Conc: 0.20 PPB m



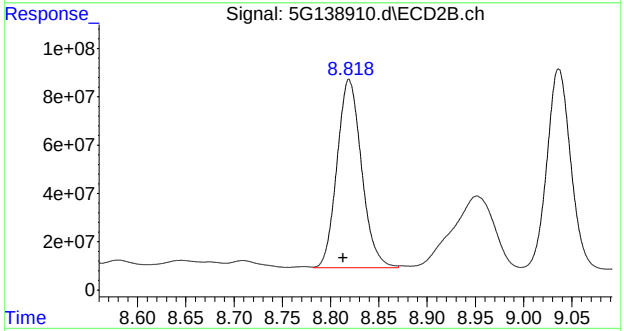
#11 Heptachlor Epoxide

R.T.: 8.540 min
Delta R.T.: 0.003 min
Response: 68764418
Conc: 0.09 PPB m



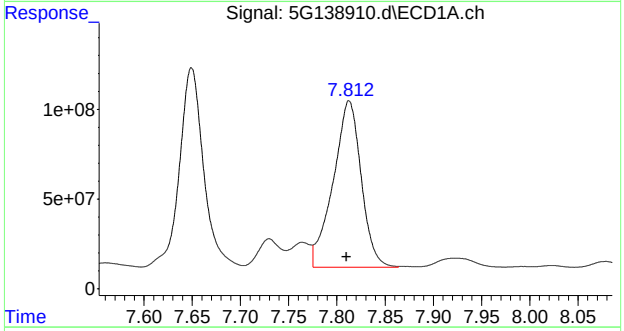
#12 gamma-Chlordane

R.T.: 7.649 min
Delta R.T.: 0.005 min
Response: 1968367299
Conc: 3.28 PPB



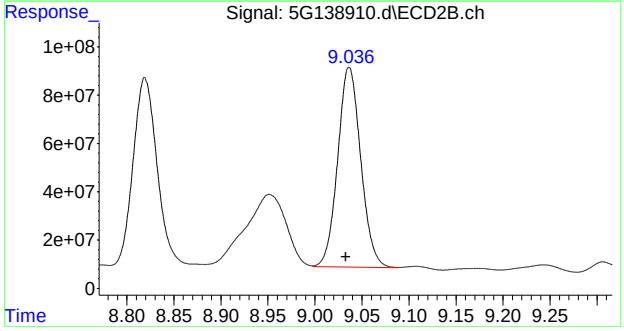
#12 gamma-Chlordane

R.T.: 8.818 min
Delta R.T.: 0.005 min
Response: 1379295478
Conc: 1.79 PPB m



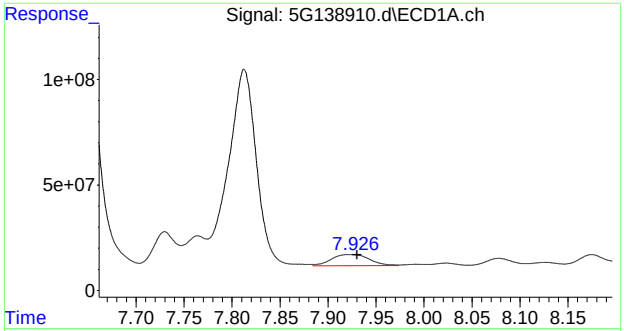
#13 alpha-Chlordane

R.T.: 7.812 min
Delta R.T.: 0.002 min
Response: 1877616589
Conc: 3.31 PPB m



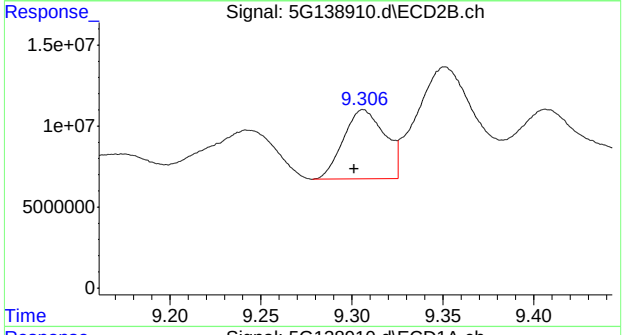
#13 alpha-Chlordane

R.T.: 9.036 min
Delta R.T.: 0.003 min
Response: 1409177853
Conc: 1.88 PPB m



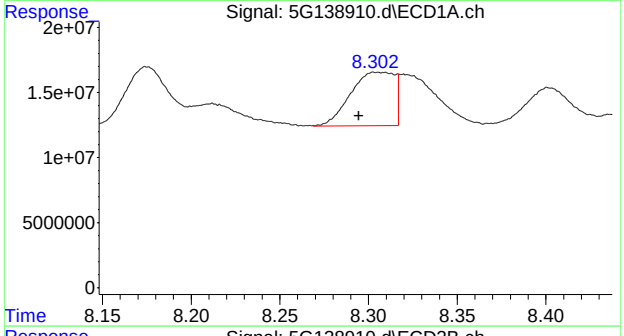
#15 4,4'-DDE

R.T.: 7.925 min
Delta R.T.: -0.005 min
Response: 143263971
Conc: 0.28 PPB



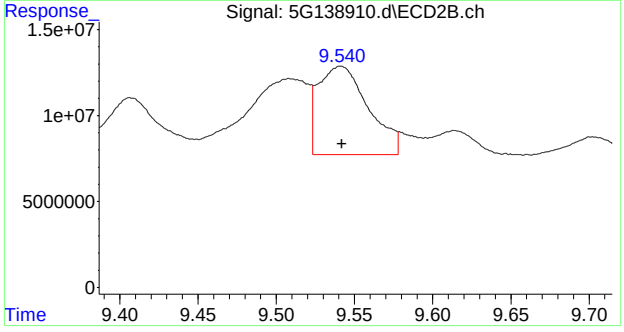
#15 4,4'-DDE

R.T.: 9.306 min
Delta R.T.: 0.005 min
Response: 67859758
Conc: 0.10 PPB



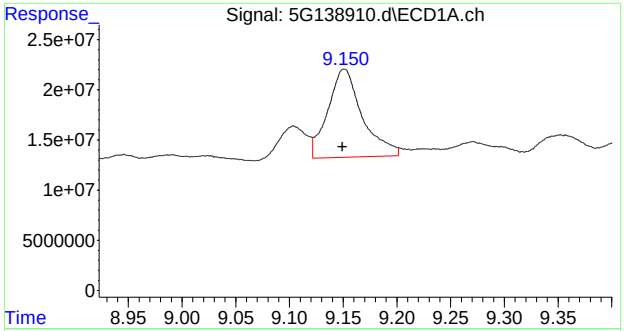
#16 Dieldrin

R.T.: 8.302 min
Delta R.T.: 0.008 min
Response: 71530293
Conc: 0.12 PPB m



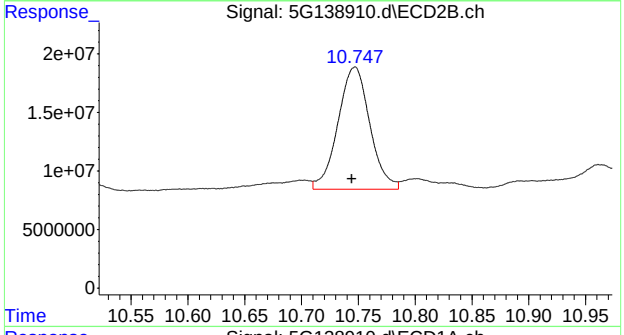
#16 Dieldrin

R.T.: 9.540 min
Delta R.T.: -0.001 min
Response: 113657697
Conc: 0.16 PPB m



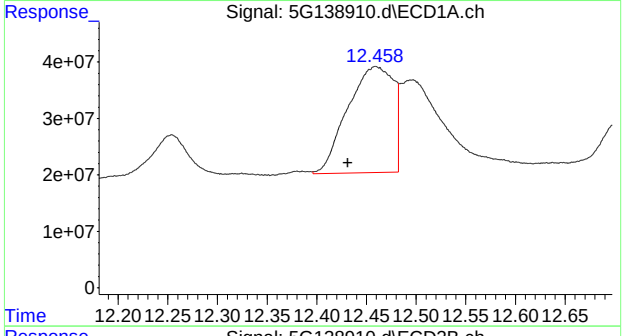
#20 4,4'-DDT

R.T.: 9.150 min
Delta R.T.: 0.000 min
Response: 195844281
Conc: 0.49 PPB m



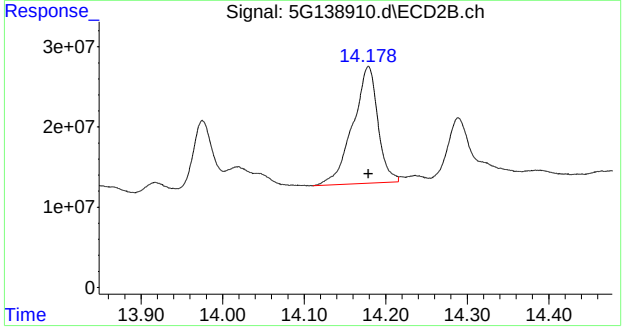
#20 4,4'-DDT

R.T.: 10.747 min
Delta R.T.: 0.003 min
Response: 203312778
Conc: 0.45 PPB m



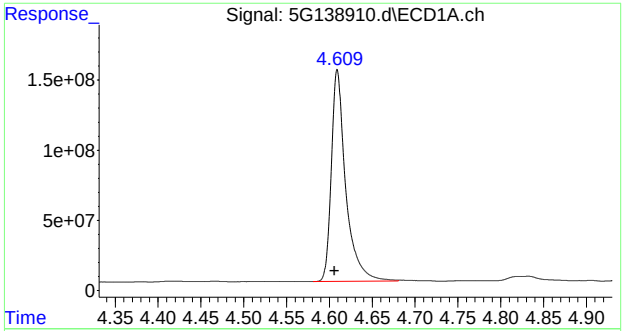
#26 Decachlorobiphenyl

R.T.: 12.458 min
Delta R.T.: 0.027 min
Response: 605682502
Conc: 1.18 PPB m



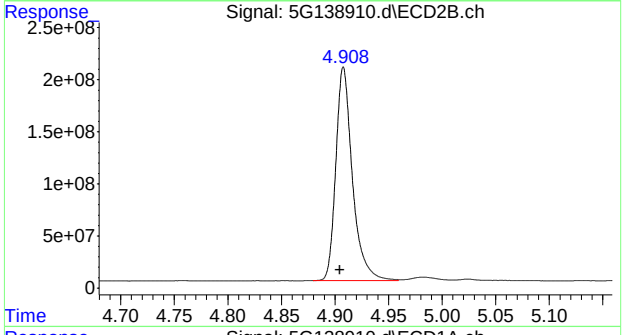
#26 Decachlorobiphenyl

R.T.: 14.178 min
Delta R.T.: 0.000 min
Response: 310805086
Conc: 0.70 PPB m



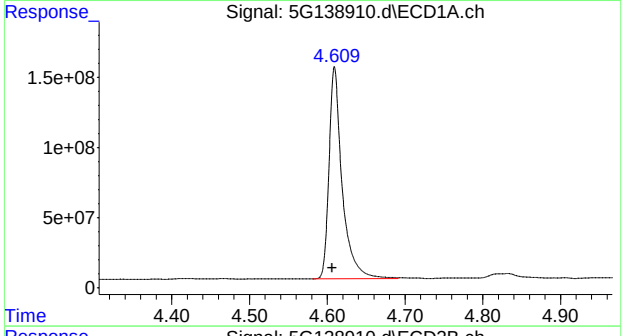
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.609 min
Delta R.T.: 0.003 min
Response: 1767984675
Conc: 5.00 PPB m



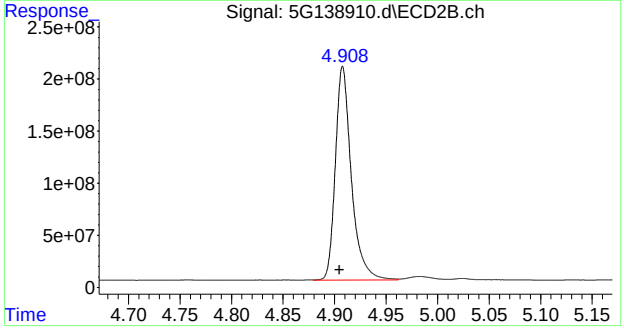
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.908 min
Delta R.T.: 0.003 min
Response: 2214890098
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.609 min
Delta R.T.: 0.003 min
Response: 1774796804
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.908 min
Delta R.T.: 0.003 min
Response: 2220249245
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 09:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\g5g3659\
Data File : 5G138865.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 4:40 am
Operator : christp
Sample : jd91204-8 m
Misc : op55761,G5G3659,5.2,,,10,1
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:37:20 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.605	4.903	1650.4E6	1917.5E6	5.000m	5.000m
27)	I 1-bromo-2...	4.605	4.903	1649.1E6	1923.4E6	5.000m	5.000m
33)	I 1-bromo-2...	4.605	4.903	1647.9E6	1921.3E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.234	5.721	424.7E6	1571.7E6	2.387m	3.072m#
	Spiked Amount	40.000	Range 30 - 150	Recovery	=	5.97%#	7.68%#
26)	SA Decachlor...	12.431	14.177	1061.5E6	977.2E6	2.221m	2.563m
	Spiked Amount	40.000		Recovery	=	5.55%	6.41%
	Target Compounds						
15)	B 4,4'-DDE	7.927	9.299	54105421	23897813	0.115m	0.041m#
20)	MA 4,4'-DDT	9.146	10.742	27666409	30680552	0.074m	0.078m
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

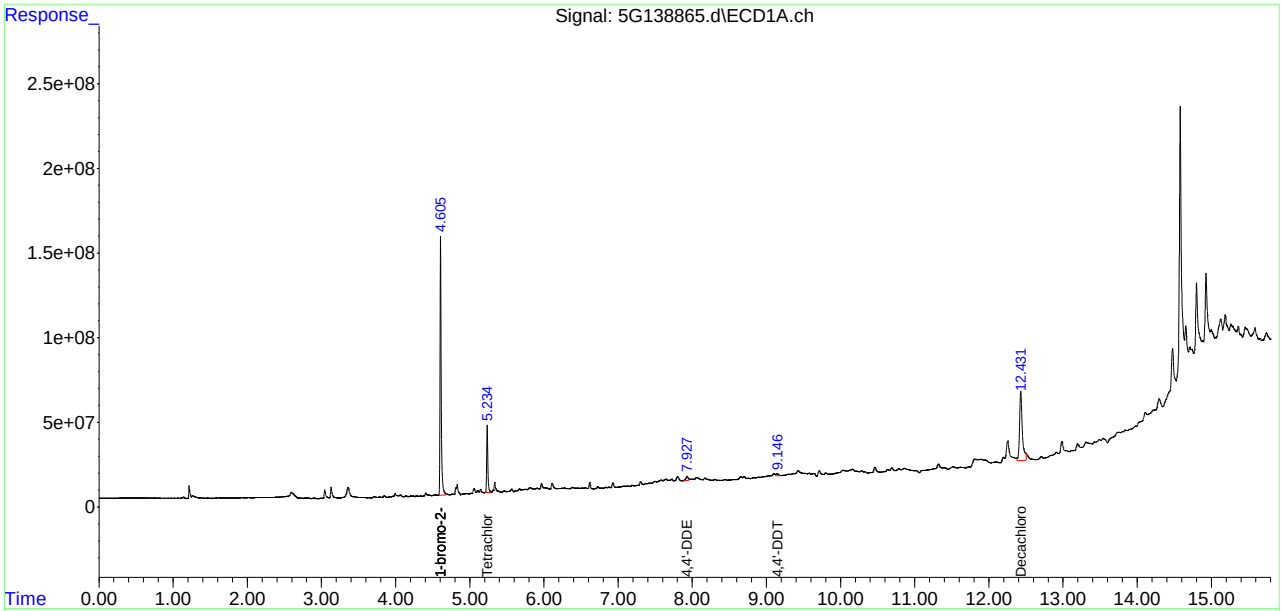
9.1.14
9

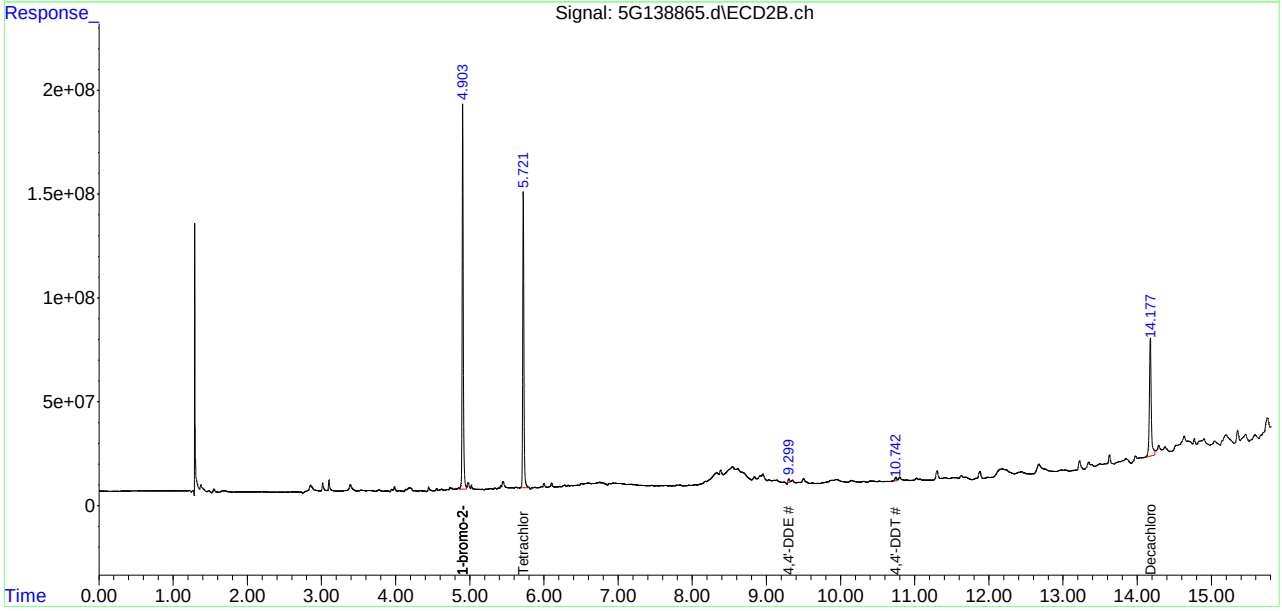
Quantitation Report (QT Reviewed)

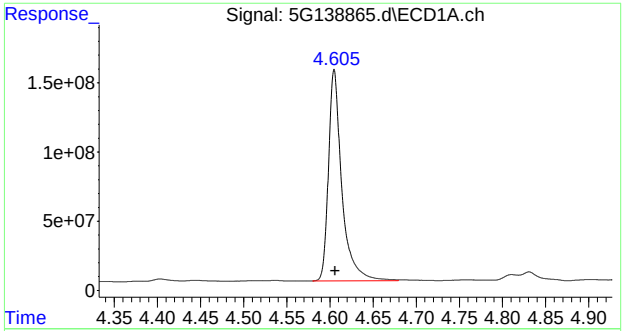
Data Path : C:\msdchem\1\data\laylanie\g5g3659\
Data File : 5G138865.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 4:40 am
Operator : christp
Sample : jd91204-8 m
Misc : op55761,G5G3659,5.2,,,10,1
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 11:37:20 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

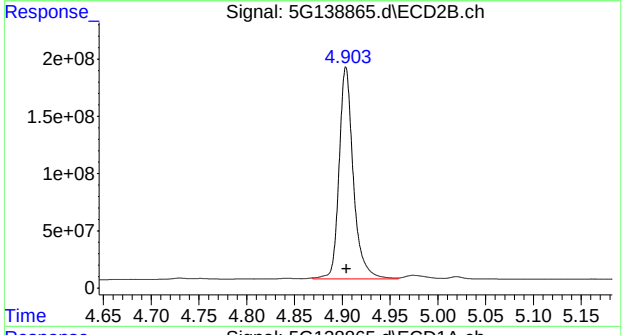






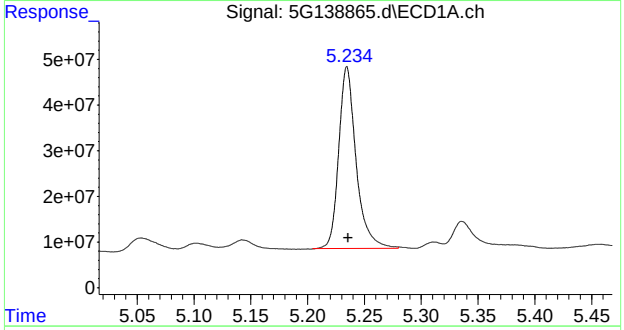
#1 1-bromo-2-nitrobenzene

R.T.: 4.605 min
Delta R.T.: -0.001 min
Response: 1650371063
Conc: 5.00 PPB m



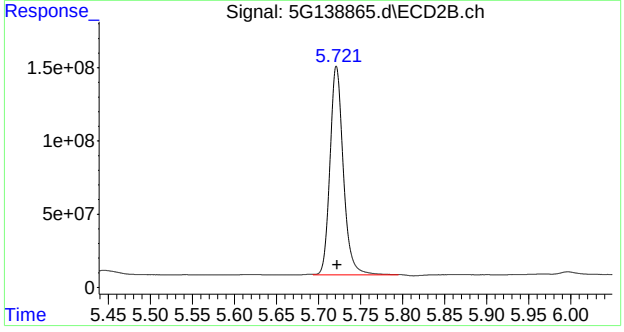
#1 1-bromo-2-nitrobenzene

R.T.: 4.903 min
Delta R.T.: -0.001 min
Response: 1917508238
Conc: 5.00 PPB m



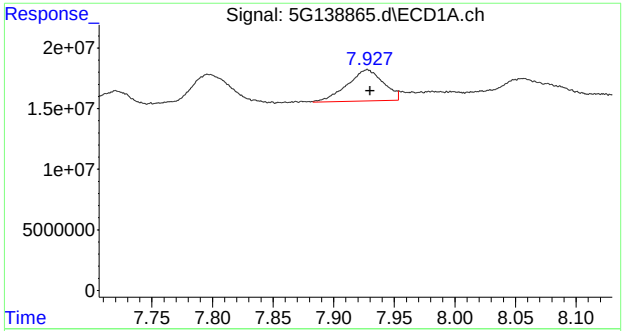
#2 Tetrachloro-m-xylene

R.T.: 5.234 min
Delta R.T.: -0.001 min
Response: 424672812
Conc: 2.39 PPB m



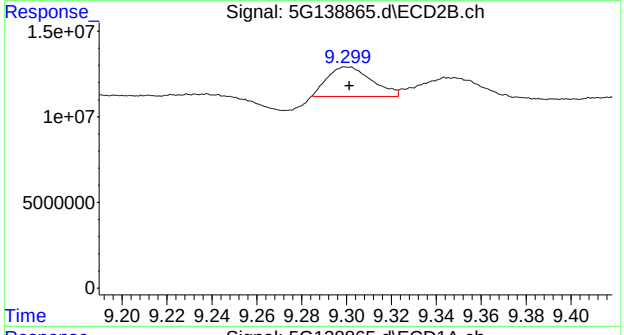
#2 Tetrachloro-m-xylene

R.T.: 5.721 min
Delta R.T.: -0.001 min
Response: 1571691609
Conc: 3.07 PPB m



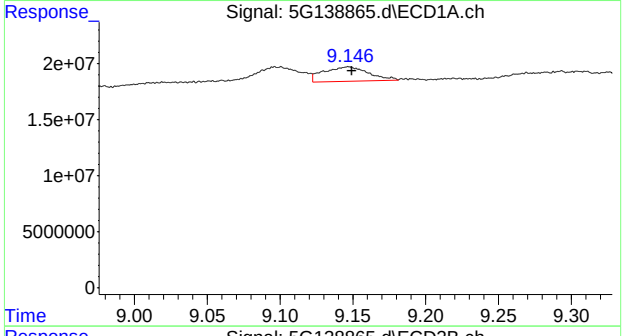
#15 4,4'-DDE

R.T.: 7.927 min
Delta R.T.: -0.003 min
Response: 54105421
Conc: 0.11 PPB m



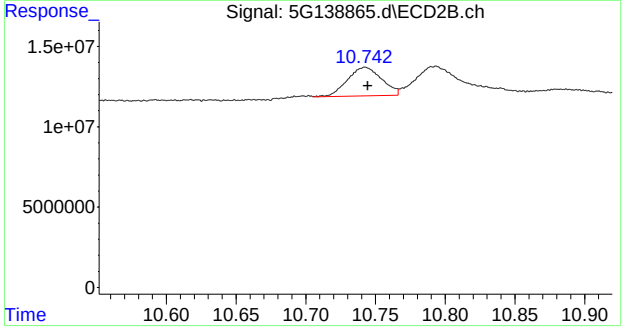
#15 4,4'-DDE

R.T.: 9.299 min
Delta R.T.: -0.002 min
Response: 23897813
Conc: 0.04 PPB m



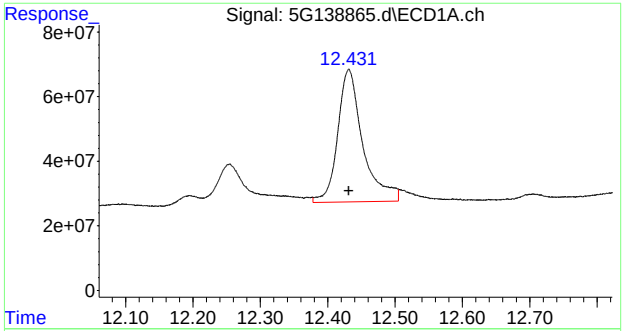
#20 4,4'-DDT

R.T.: 9.146 min
Delta R.T.: -0.003 min
Response: 27666409
Conc: 0.07 PPB m



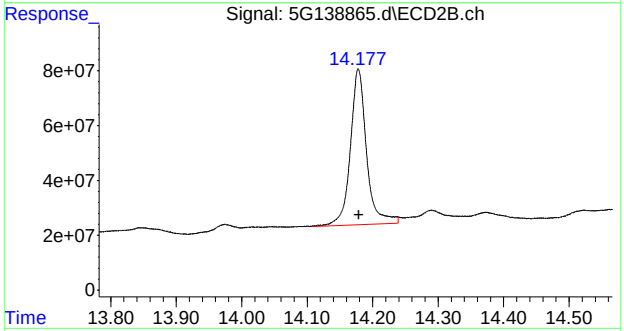
#20 4,4'-DDT

R.T.: 10.742 min
Delta R.T.: -0.002 min
Response: 30680552
Conc: 0.08 PPB m



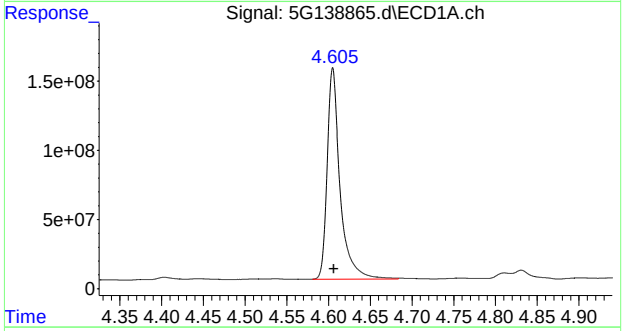
#26 Decachlorobiphenyl

R.T.: 12.431 min
Delta R.T.: 0.000 min
Response: 1061463723
Conc: 2.22 PPB m



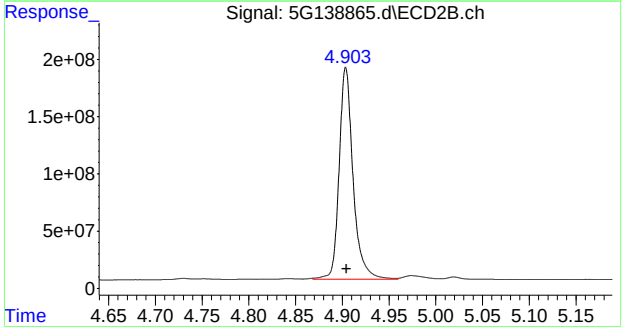
#26 Decachlorobiphenyl

R.T.: 14.177 min
Delta R.T.: -0.001 min
Response: 977170586
Conc: 2.56 PPB m



#27 1-bromo-2-nitrobenzeneA

R.T.: 4.605 min
Delta R.T.: -0.001 min
Response: 1649134772
Conc: 5.00 PPB m

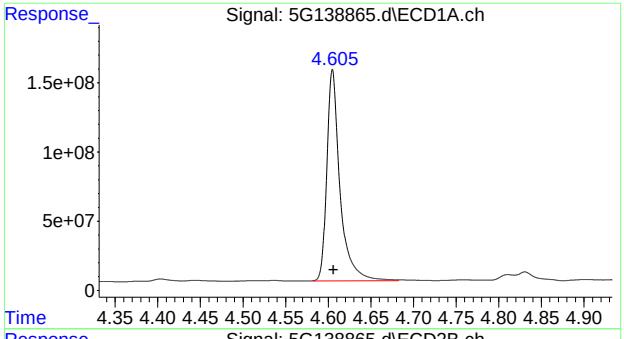


#27 1-bromo-2-nitrobenzeneA

R.T.: 4.903 min
Delta R.T.: -0.001 min
Response: 1923422414
Conc: 5.00 PPB m

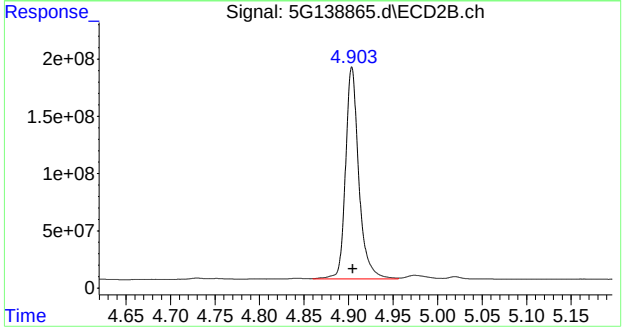
9.1.14

9



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.605 min
Delta R.T.: -0.001 min
Response: 1647862104
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.903 min
Delta R.T.: -0.001 min
Response: 1921332964
Conc: 5.00 PPB m

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
07/02/24 13:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\carlos\g5g3661\
Data File : 5G138915.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 10:20 am
Operator : christp
Sample : jd91204-9 m
Misc : op55761,G5G3661,5.1,,,10,1
ALS Vial : 78 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 16:30:07 2024
Quant Method : C:\msdchem\1\data\carlos\g5g3661\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Tue Jul 02 07:23:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.609	4.908	1720.7E6	1857.1E6	5.000m	5.000m
27)	I 1-bromo-2...	4.609	4.908	1722.7E6	1866.9E6	5.000m	5.000m
33)	I 1-bromo-2...	4.609	4.908	1722.5E6	1862.7E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.241	5.727	377.9E6	1066.5E6	2.037m	2.152m
	Spiked Amount	40.000	Range 30 - 150	Recovery	=	5.09%#	5.38%#
26)	SA Decachlor...	12.474f	14.165	16036.3E6	3064.5E6	32.187m	8.299m#
	Spiked Amount	40.000		Recovery	=	80.47%	20.75%
	Target Compounds						
5)	MA gamma-BHC	6.000	6.756	55879814	1419.0E6	0.098m	1.968m#
11)	B Heptachlo...	7.498	8.543	253.1E6	213.5E6	0.466m	0.350m
12)	B gamma-Chl...	7.625f	8.817	4543.9E6	250.4E6	7.821m	0.390m#
13)	B alpha-Chl...	7.801	9.036	1371.6E6	419.8E6	2.498m	0.672m#
15)	B 4,4'-DDE	7.935	9.306	4857.9E6	2602.0E6	9.866m	4.573m#
16)	MA Dieldrin	8.302	9.543	343.7E6	250.8E6	0.594m	0.420m#
18)	A 4,4'-DDD	8.747	10.230	368.3E6	255.7E6	0.862m	0.705m
20)	MA 4,4'-DDT	9.153	10.748	4546.2E6	2982.1E6	11.619m	7.859m#
	SemiQuant Compounds - Not Calibrated on this Instrument						

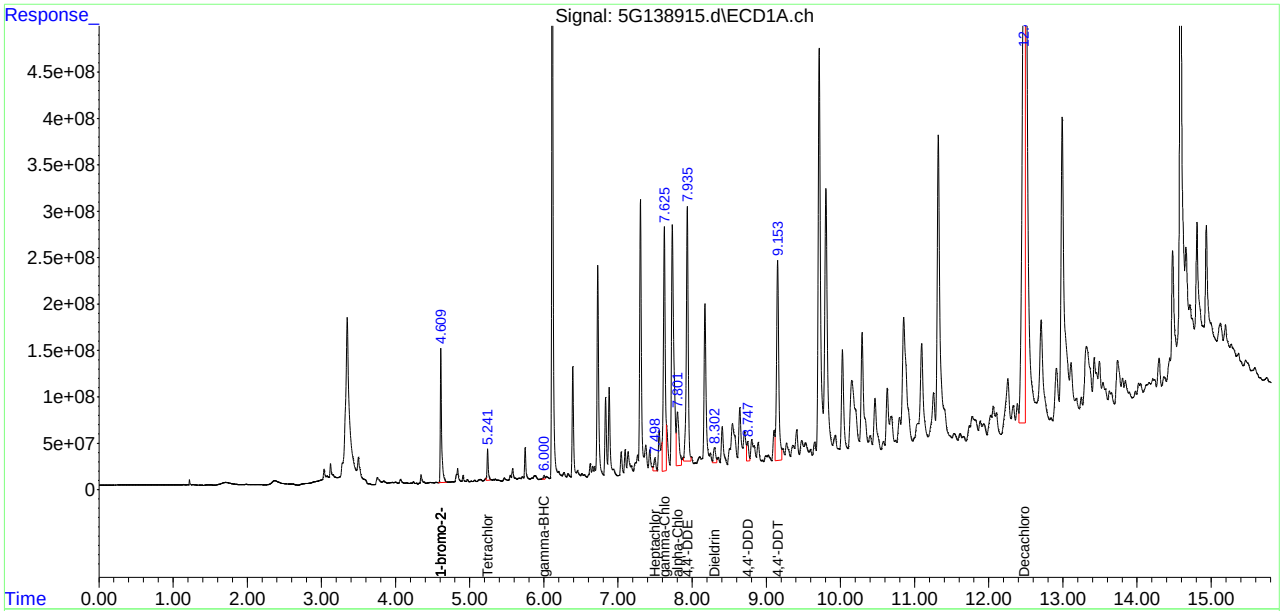
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

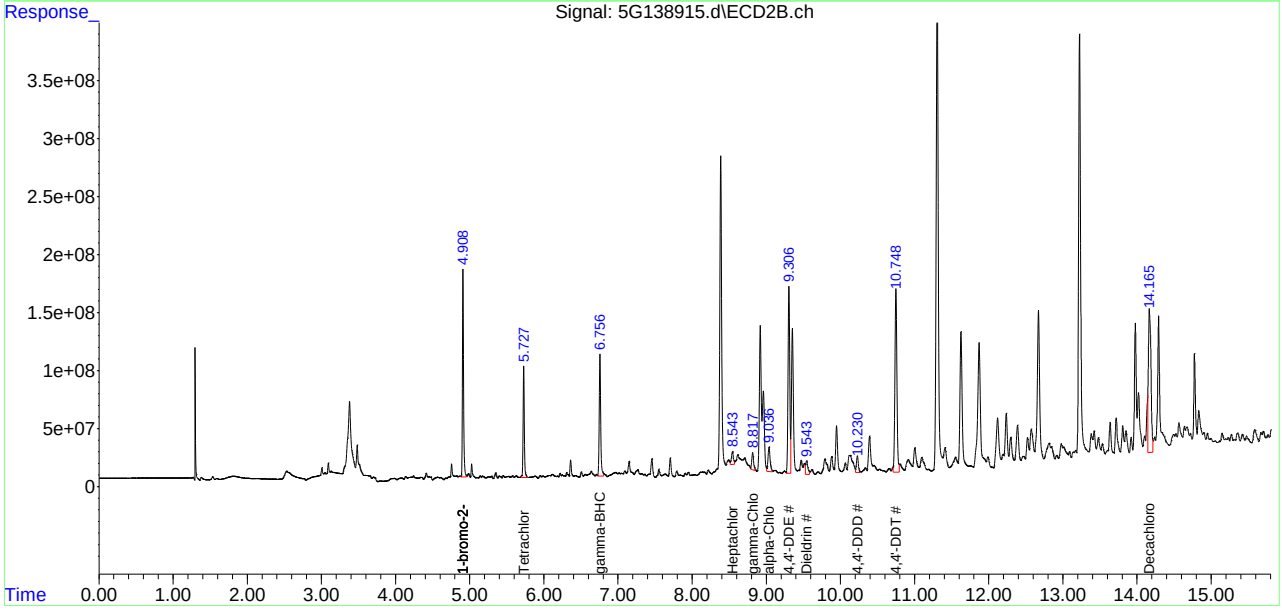
Quantitation Report (QT Reviewed)

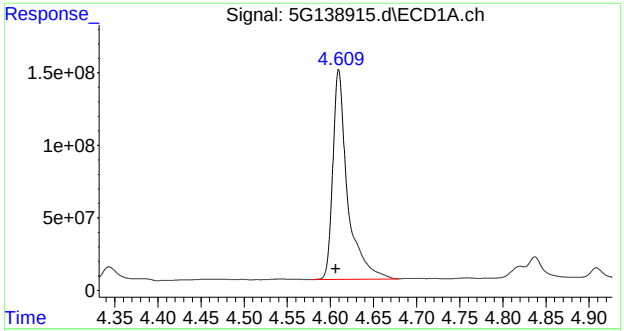
Data Path : C:\msdchem\1\data\carlos\g5g3661\
Data File : 5G138915.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 10:20 am
Operator : christp
Sample : jd91204-9 m
Misc : op55761,G5G3661,5.1,,,10,1
ALS Vial : 78 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 16:30:07 2024
Quant Method : C:\msdchem\1\data\carlos\g5g3661\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Tue Jul 02 07:23:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

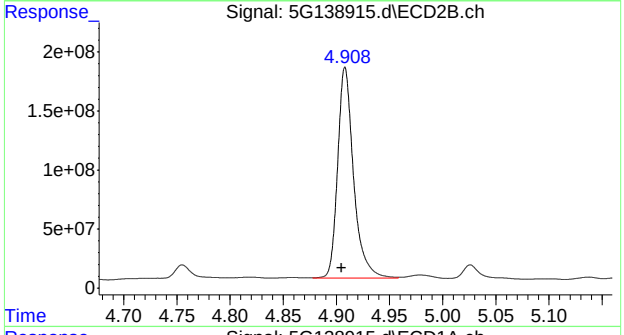






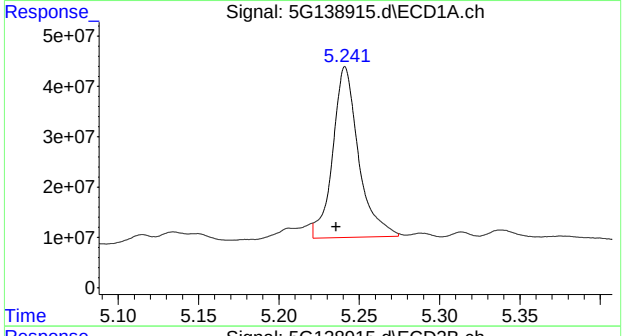
#1 1-bromo-2-nitrobenzene

R.T.: 4.609 min
Delta R.T.: 0.003 min
Response: 1720703872
Conc: 5.00 PPB m



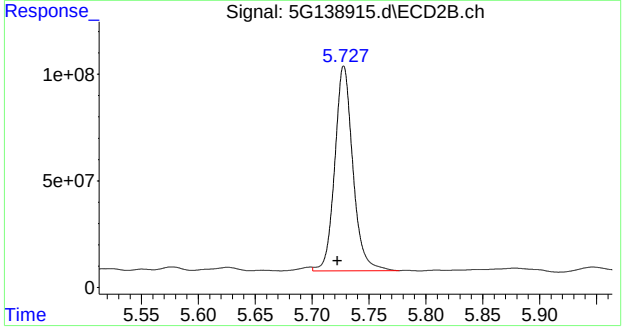
#1 1-bromo-2-nitrobenzene

R.T.: 4.908 min
Delta R.T.: 0.003 min
Response: 1857136344
Conc: 5.00 PPB m



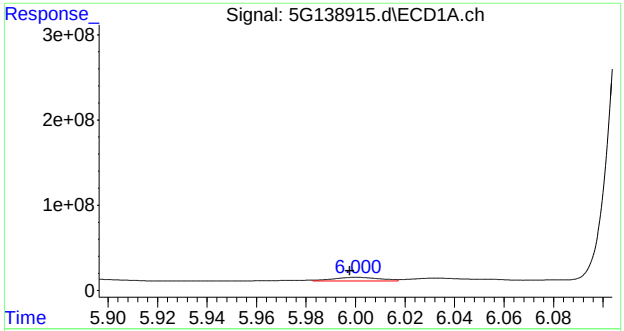
#2 Tetrachloro-m-xylene

R.T.: 5.241 min
Delta R.T.: 0.005 min
Response: 377931571
Conc: 2.04 PPB m



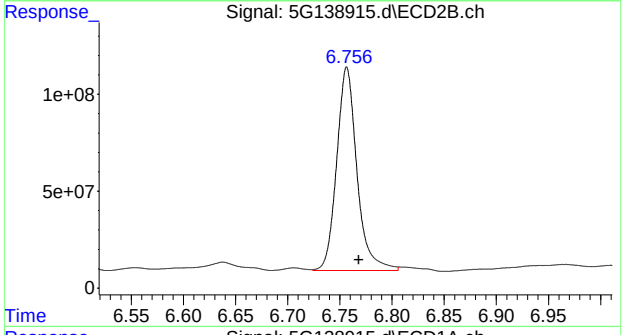
#2 Tetrachloro-m-xylene

R.T.: 5.727 min
Delta R.T.: 0.005 min
Response: 1066482468
Conc: 2.15 PPB m



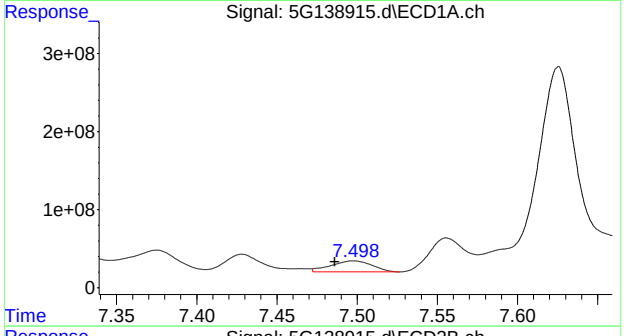
#5 gamma-BHC

R.T.: 6.000 min
Delta R.T.: 0.002 min
Response: 55879814
Conc: 0.10 PPB m



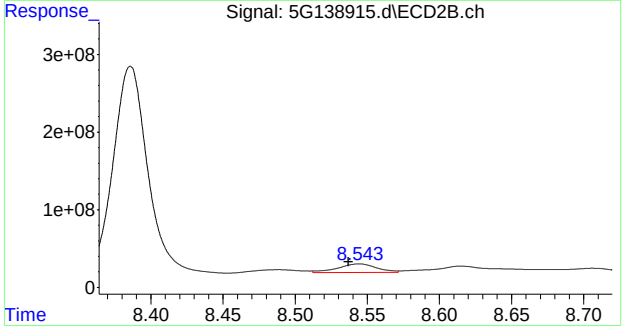
#5 gamma-BHC

R.T.: 6.756 min
Delta R.T.: -0.012 min
Response: 1418989106
Conc: 1.97 PPB m



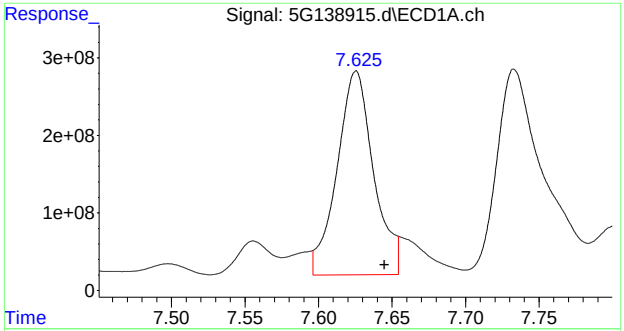
#11 Heptachlor Epoxide

R.T.: 7.498 min
Delta R.T.: 0.012 min
Response: 253136634
Conc: 0.47 PPB m



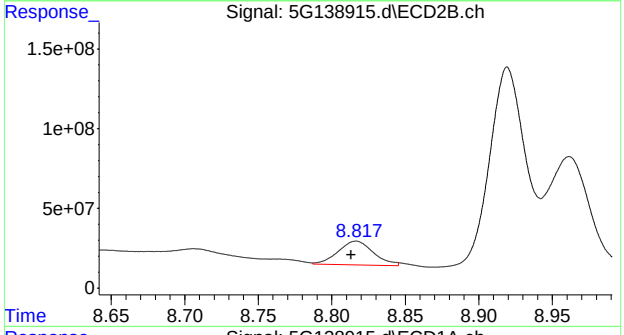
#11 Heptachlor Epoxide

R.T.: 8.543 min
Delta R.T.: 0.006 min
Response: 213511377
Conc: 0.35 PPB m



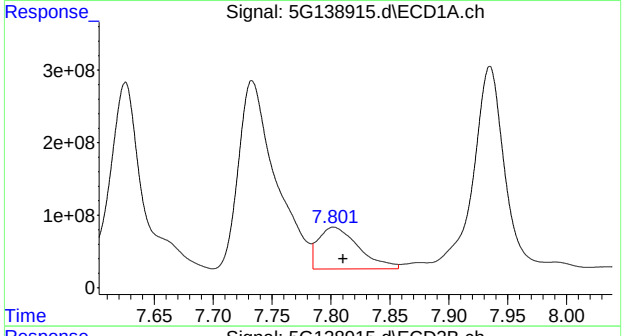
#12 gamma-Chlordane

R.T.: 7.625 min
Delta R.T.: -0.019 min
Response: 4543900326
Conc: 7.82 PPB m



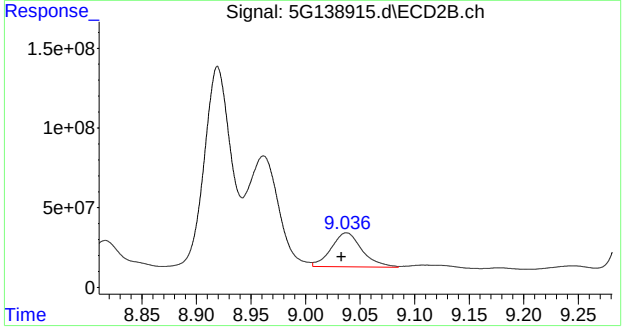
#12 gamma-Chlordane

R.T.: 8.817 min
Delta R.T.: 0.003 min
Response: 250408559
Conc: 0.39 PPB m



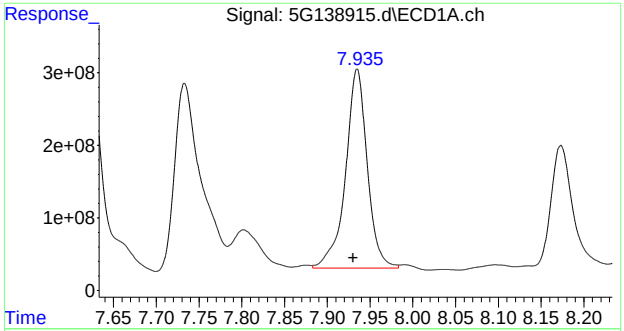
#13 alpha-Chlordane

R.T.: 7.801 min
Delta R.T.: -0.009 min
Response: 1371636589
Conc: 2.50 PPB m



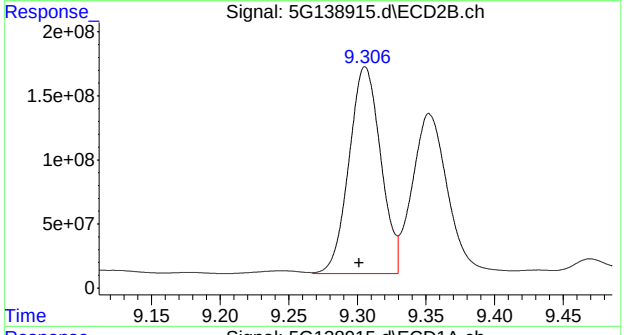
#13 alpha-Chlordane

R.T.: 9.036 min
Delta R.T.: 0.003 min
Response: 419802056
Conc: 0.67 PPB m



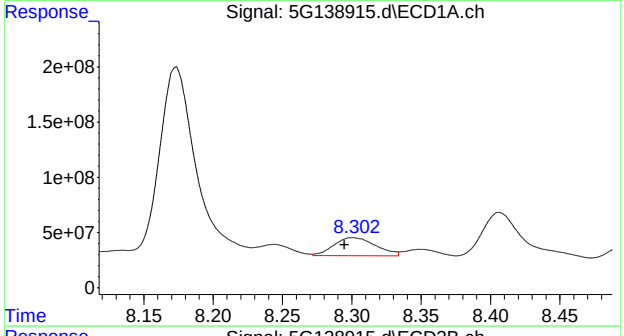
#15 4,4'-DDE

R.T.: 7.935 min
Delta R.T.: 0.005 min
Response: 4857942564
Conc: 9.87 PPB m



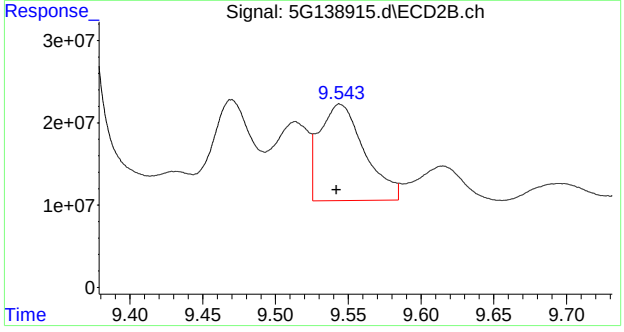
#15 4,4'-DDE

R.T.: 9.306 min
Delta R.T.: 0.004 min
Response: 2602007834
Conc: 4.57 PPB m



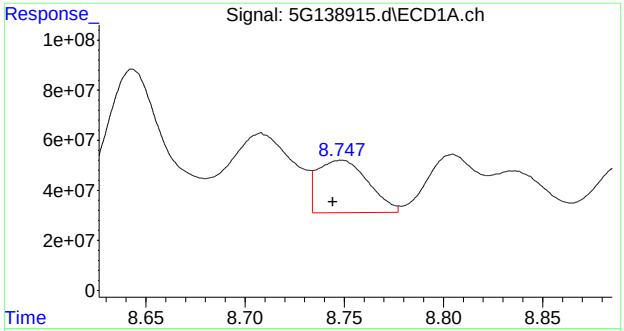
#16 Dieldrin

R.T.: 8.302 min
Delta R.T.: 0.007 min
Response: 343730231
Conc: 0.59 PPB m



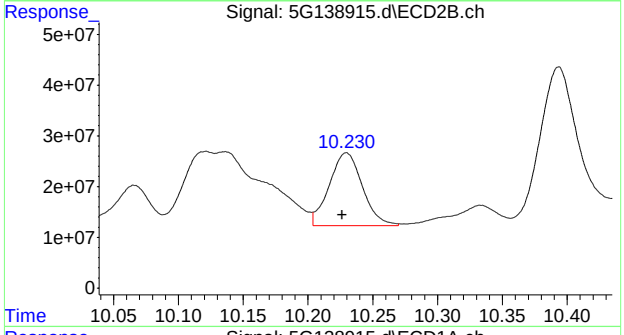
#16 Dieldrin

R.T.: 9.543 min
Delta R.T.: 0.002 min
Response: 250836333
Conc: 0.42 PPB m



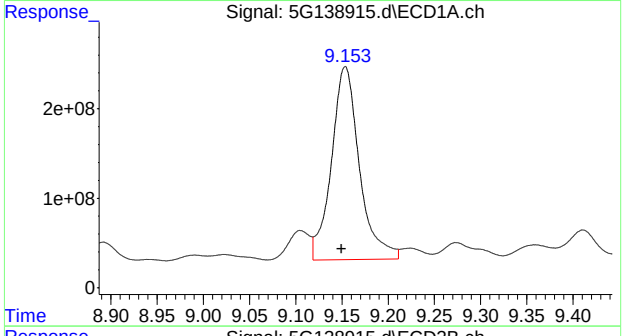
#18 4,4'-DDD

R.T.: 8.747 min
Delta R.T.: 0.003 min
Response: 368340676
Conc: 0.86 PPB m



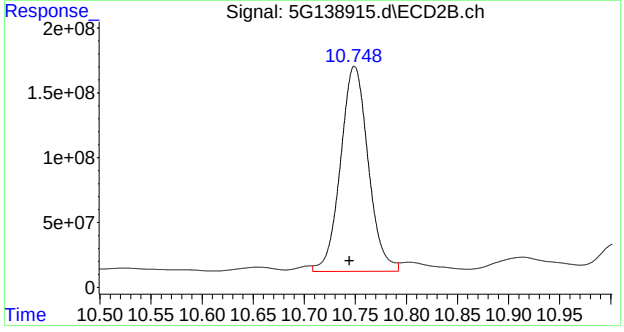
#18 4,4'-DDD

R.T.: 10.230 min
Delta R.T.: 0.004 min
Response: 255665229
Conc: 0.71 PPB m



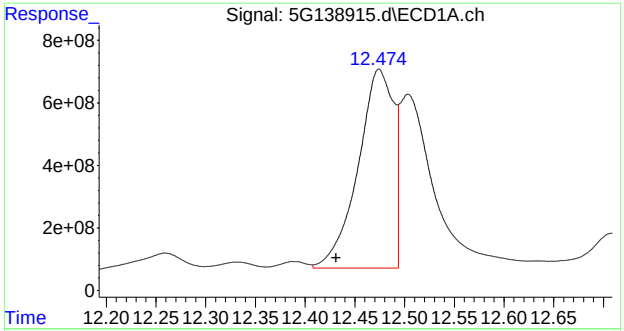
#20 4,4'-DDT

R.T.: 9.153 min
Delta R.T.: 0.004 min
Response: 4546192954
Conc: 11.62 PPB m



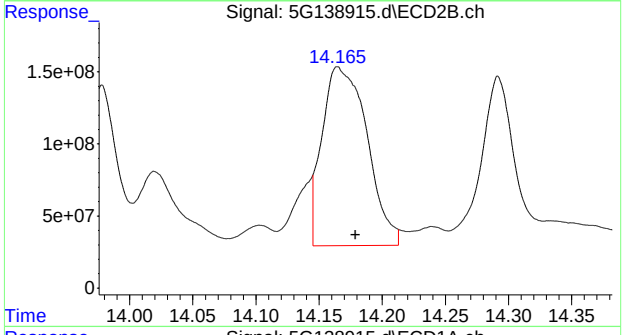
#20 4,4'-DDT

R.T.: 10.748 min
Delta R.T.: 0.004 min
Response: 2982131249
Conc: 7.86 PPB m



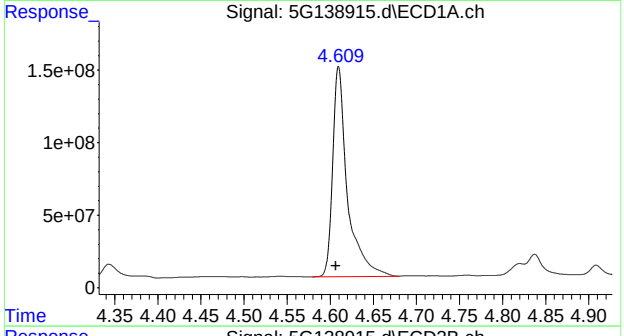
#26 Decachlorobiphenyl

R.T.: 12.474 min
Delta R.T.: 0.042 min
Response: 16036293246
Conc: 32.19 PPB m



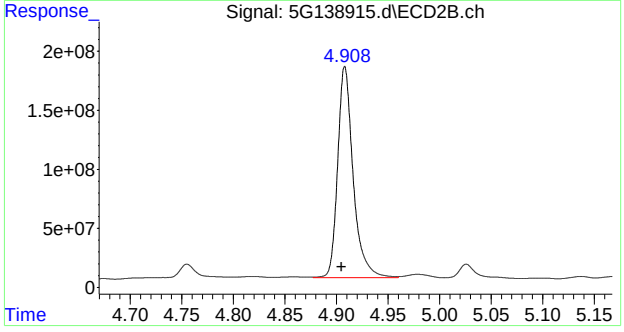
#26 Decachlorobiphenyl

R.T.: 14.165 min
Delta R.T.: -0.014 min
Response: 3064510467
Conc: 8.30 PPB m



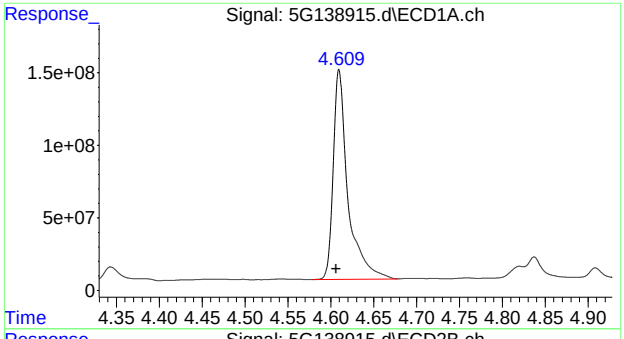
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.609 min
Delta R.T.: 0.003 min
Response: 1722657888
Conc: 5.00 PPB m



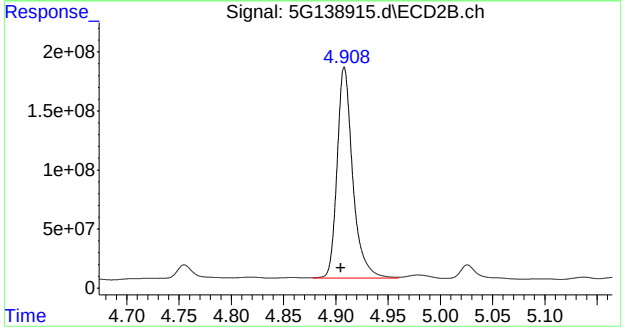
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.908 min
Delta R.T.: 0.003 min
Response: 1866945512
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.609 min
Delta R.T.: 0.003 min
Response: 1722479865
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.908 min
Delta R.T.: 0.003 min
Response: 1862650273
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/02/24 13:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g5g3659\
Data File : 5G138867.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 5:22 am
Operator : christp
Sample : jd91204-10 m
Misc : op55761,G5G3659,5.4,,,10,1
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 09:31:52 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.604	4.903	1762.8E6	1971.7E6	5.000m	5.000m
27)	I 1-bromo-2...	4.604	4.903	1764.7E6	1961.9E6	5.000m	5.000m
33)	I 1-bromo-2...	4.604	4.903	1757.0E6	1971.7E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.234	5.720	376.6E6	1144.2E6	1.981m	2.175m
	Spiked Amount 40.000	Range 30 - 150		Recovery =		4.95%#	5.44%#
26)	SA Decachlor...	12.471f	14.162f	12292.5E6	2401.3E6	24.083m	6.125m#
	Spiked Amount 40.000			Recovery =		60.21%	15.31%
	Target Compounds						
11)	B Heptachlo...	7.487	8.537	636.7E6	399.6E6	1.144m	0.617m#
12)	B gamma-Chl...	7.635	8.810	486.8E6	409.2E6	0.818m	0.600m#
13)	B alpha-Chl...	7.793f	9.033	2090.8E6	568.2E6	3.716m	0.856m#
15)	B 4,4'-DDE	7.929	9.302	30634.0E6	20350.1E6	60.729m	33.685m#
16)	MA Dieldrin	8.295	9.539	490.5E6	339.4E6	0.827m	0.535m#
18)	A 4,4'-DDD	8.743	10.224	1779.7E6	1719.3E6	4.064m	4.468m
20)	MA 4,4'-DDT	9.149	10.746	33766.0E6	24760.5E6	84.234m	61.466m#
	SemiQuant Compounds - Not Calibrated on this Instrument						

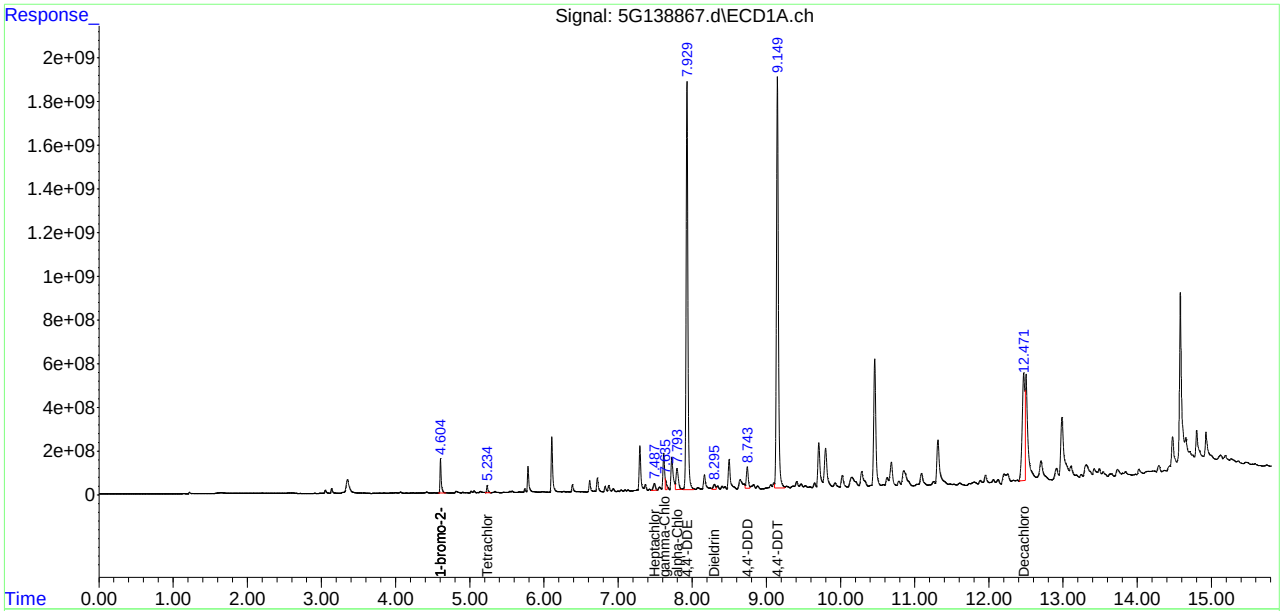
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

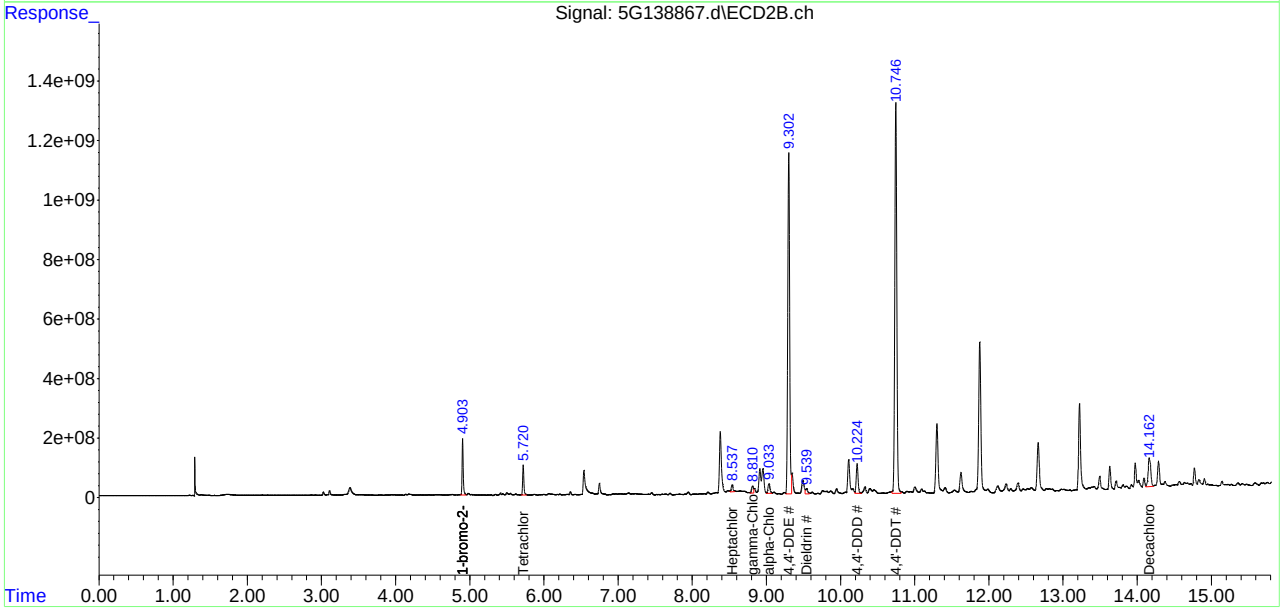
Quantitation Report (QT Reviewed)

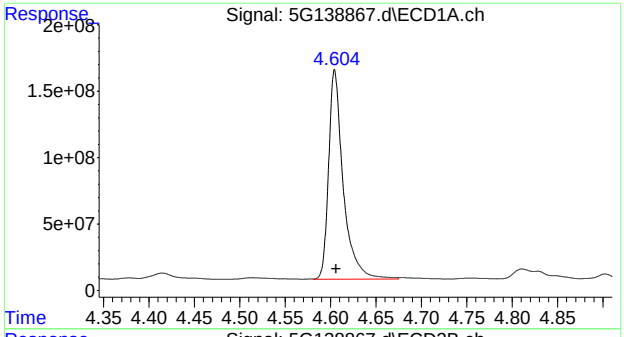
Data Path : C:\msdchem\1\data\g5g3659\
Data File : 5G138867.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 5:22 am
Operator : christp
Sample : jd91204-10 m
Misc : op55761,G5G3659,5.4,,,10,1
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 09:31:52 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

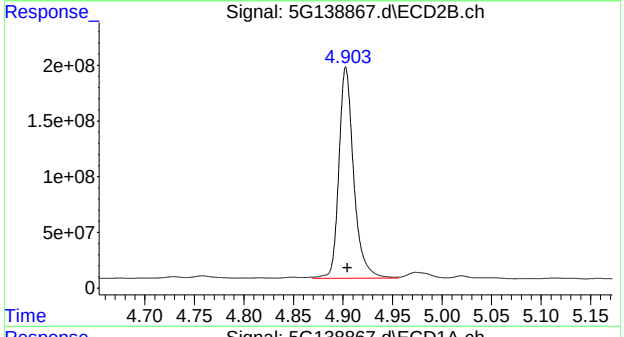






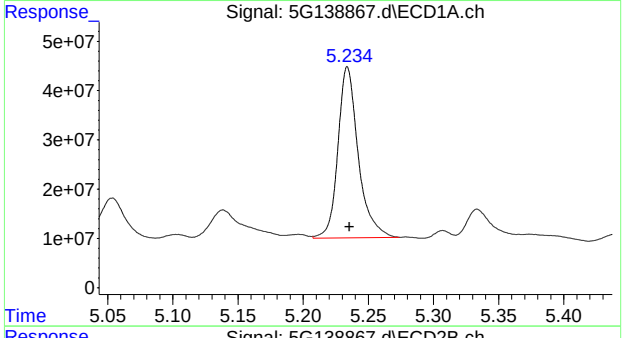
#1 1-bromo-2-nitrobenzene

R.T.: 4.604 min
Delta R.T.: -0.002 min
Response: 1762844699
Conc: 5.00 PPB m



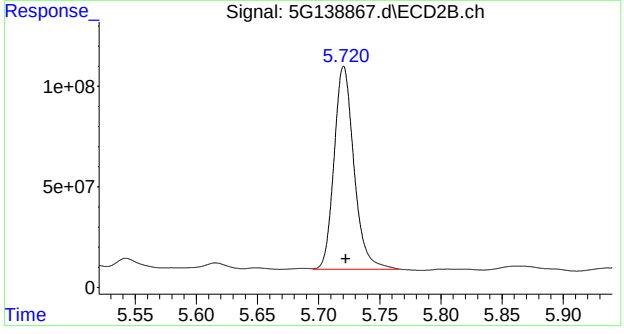
#1 1-bromo-2-nitrobenzene

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 1971676236
Conc: 5.00 PPB m



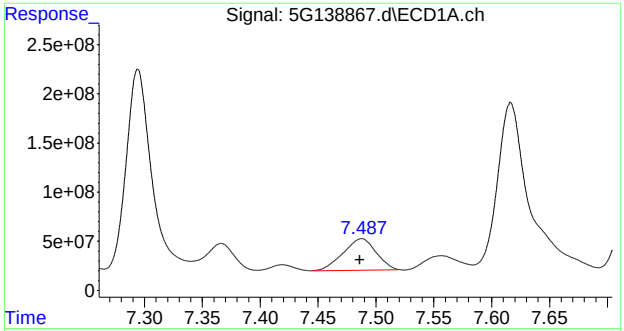
#2 Tetrachloro-m-xylene

R.T.: 5.234 min
Delta R.T.: -0.002 min
Response: 376608903
Conc: 1.98 PPB m



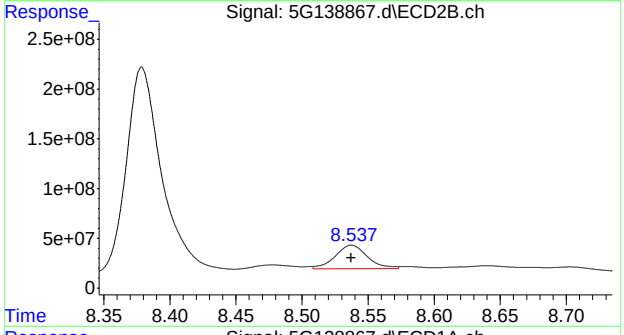
#2 Tetrachloro-m-xylene

R.T.: 5.720 min
Delta R.T.: -0.002 min
Response: 1144176103
Conc: 2.17 PPB m



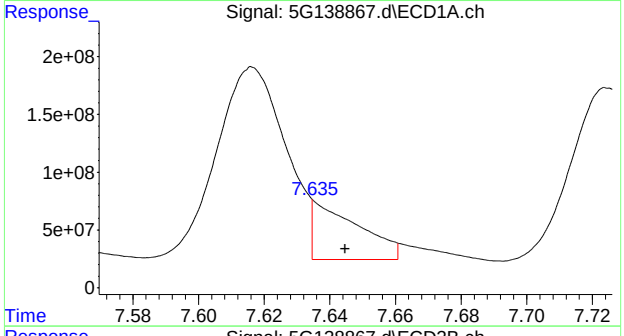
#11 Heptachlor Epoxide

R.T.: 7.487 min
Delta R.T.: 0.001 min
Response: 636686379
Conc: 1.14 PPB m



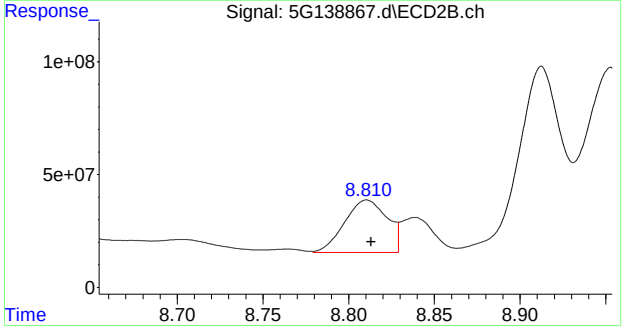
#11 Heptachlor Epoxide

R.T.: 8.537 min
Delta R.T.: 0.000 min
Response: 399607912
Conc: 0.62 PPB m



#12 gamma-Chlordane

R.T.: 7.635 min
Delta R.T.: -0.010 min
Response: 486807594
Conc: 0.82 PPB m

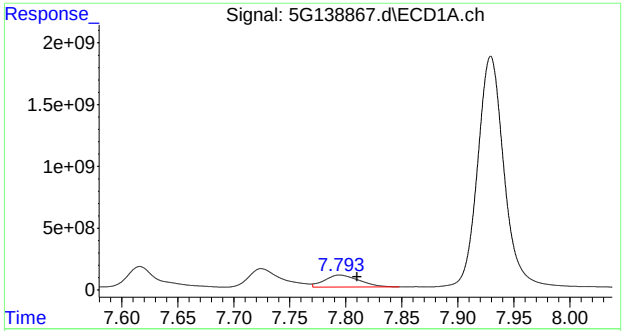


#12 gamma-Chlordane

R.T.: 8.810 min
Delta R.T.: -0.003 min
Response: 409193083
Conc: 0.60 PPB m

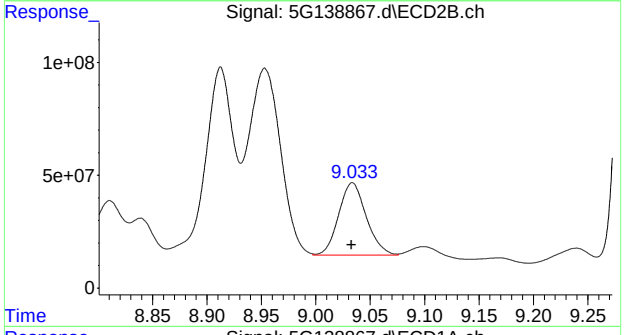
9.1.16

9



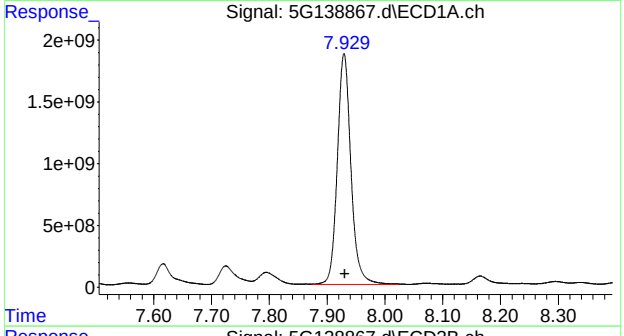
#13 alpha-Chlordane

R.T.: 7.793 min
Delta R.T.: -0.017 min
Response: 2090764736
Conc: 3.72 PPB m



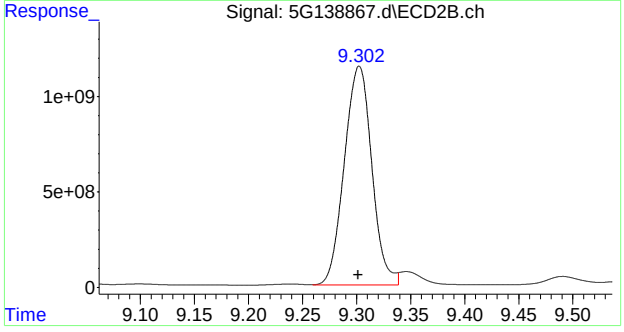
#13 alpha-Chlordane

R.T.: 9.033 min
Delta R.T.: 0.000 min
Response: 568228311
Conc: 0.86 PPB m



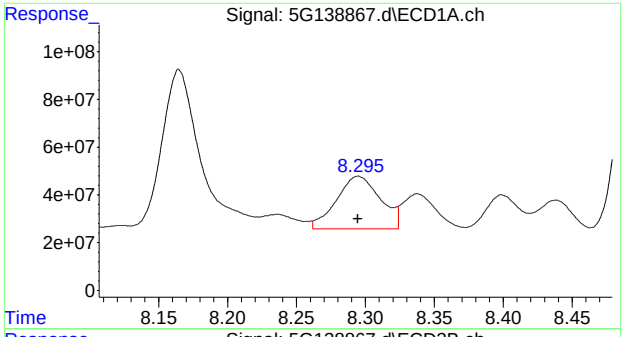
#15 4,4'-DDE

R.T.: 7.929 min
Delta R.T.: 0.000 min
Response: 30634049089
Conc: 60.73 PPB m



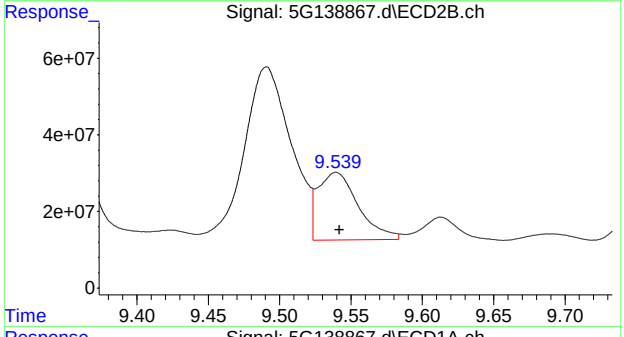
#15 4,4'-DDE

R.T.: 9.302 min
Delta R.T.: 0.000 min
Response: 20350123794
Conc: 33.69 PPB m



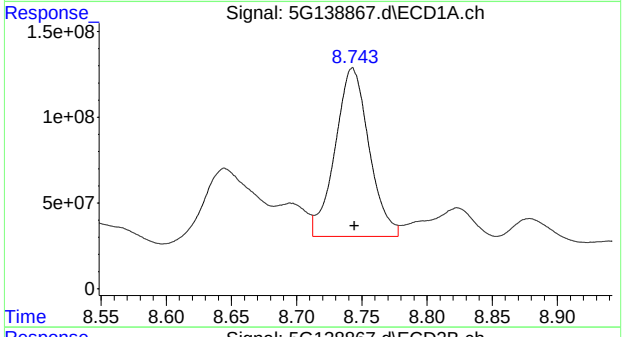
#16 Dieldrin

R.T.: 8.295 min
Delta R.T.: 0.000 min
Response: 490488738
Conc: 0.83 PPB m



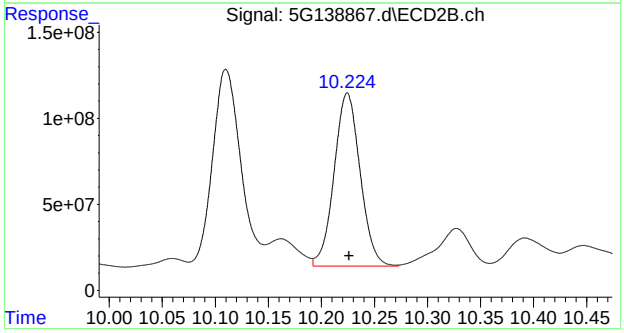
#16 Dieldrin

R.T.: 9.539 min
Delta R.T.: -0.003 min
Response: 339390248
Conc: 0.54 PPB m



#18 4,4'-DDD

R.T.: 8.743 min
Delta R.T.: -0.002 min
Response: 1779745754
Conc: 4.06 PPB m

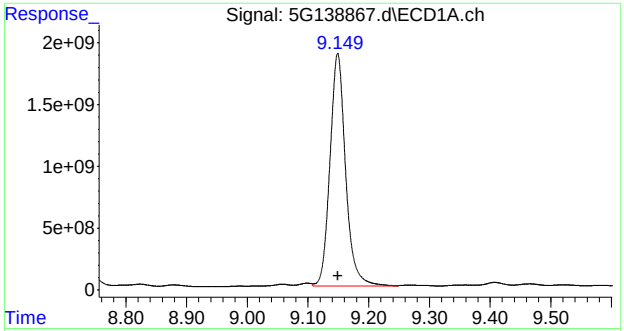


#18 4,4'-DDD

R.T.: 10.224 min
Delta R.T.: -0.002 min
Response: 1719303730
Conc: 4.47 PPB m

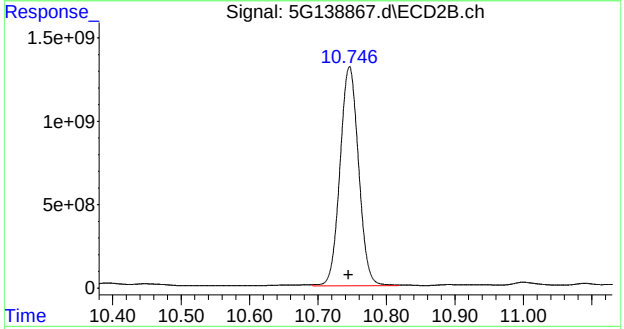
9.1.16

9



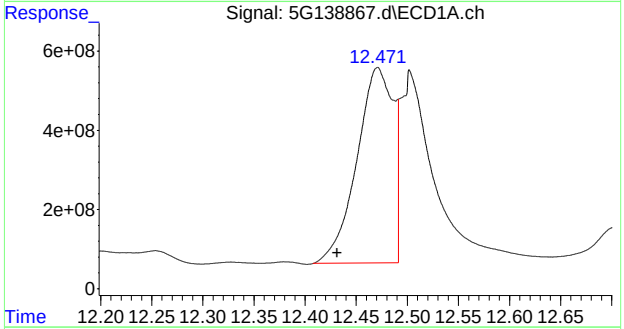
#20 4,4'-DDT

R.T.: 9.149 min
Delta R.T.: 0.000 min
Response: 33766019762
Conc: 84.23 PPB m



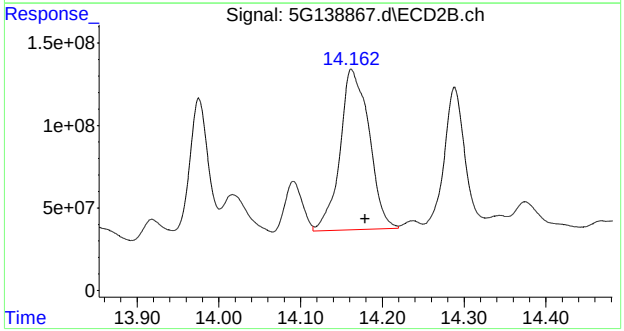
#20 4,4'-DDT

R.T.: 10.746 min
Delta R.T.: 0.002 min
Response: 24760500465
Conc: 61.47 PPB m



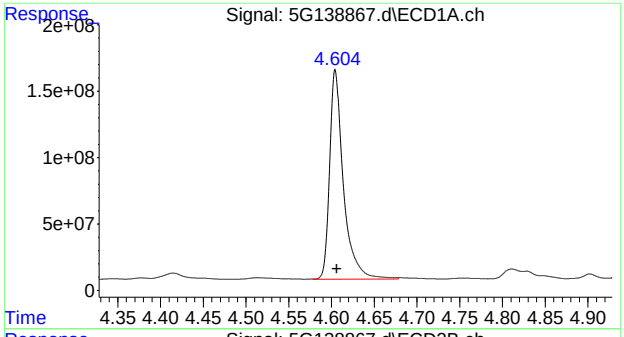
#26 Decachlorobiphenyl

R.T.: 12.471 min
Delta R.T.: 0.040 min
Response: 12292545826
Conc: 24.08 PPB m



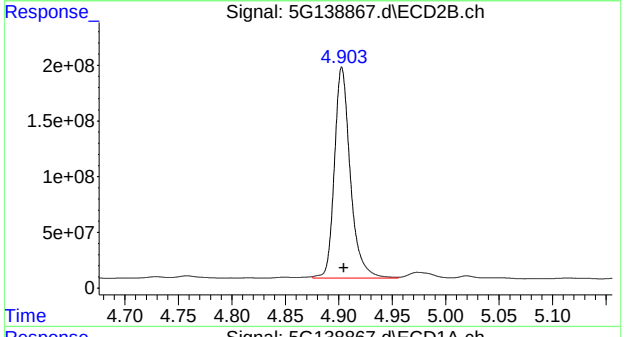
#26 Decachlorobiphenyl

R.T.: 14.162 min
Delta R.T.: -0.017 min
Response: 2401274097
Conc: 6.12 PPB m



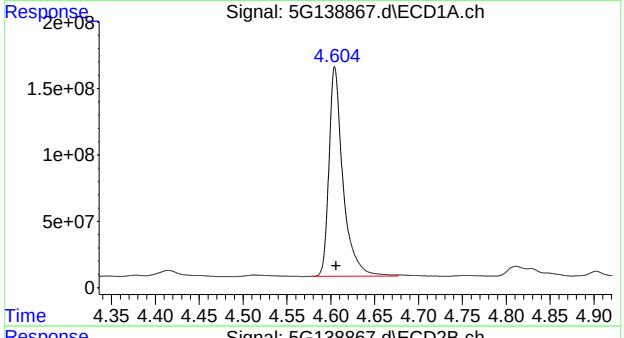
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.604 min
Delta R.T.: -0.002 min
Response: 1764672076
Conc: 5.00 PPB m



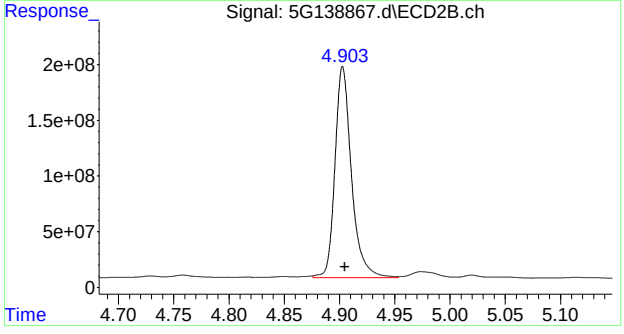
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 1961941647
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.604 min
Delta R.T.: -0.002 min
Response: 1757020601
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 1971730010
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/02/24 13:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g5g3661\
Data File : 5G138911.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 8:56 am
Operator : christp
Sample : jd91204-10 m
Misc : op55761,G5G3661,5.4,,,10,20
ALS Vial : 74 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 13:26:51 2024
Quant Method : C:\msdchem\1\data\carlos\g5g3661\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Tue Jul 02 07:23:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.609	4.908	1731.2E6	2184.1E6	5.000m	5.000m
27)	I 1-bromo-2...	4.609	4.908	1723.2E6	2183.9E6	5.000m	5.000m
33)	I 1-bromo-2...	4.609	4.908	1716.2E6	2182.8E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.239	5.725	29102498	97074105	0.156m	0.167m
	Spiked Amount 40.000	Range 30 - 150		Recovery =		0.39%#	0.42%#
26)	SA Decachlor...	12.466f	14.176	236.4E6	78672331	0.472m	0.181m#
	Spiked Amount 40.000			Recovery =		1.18%	0.45%
	Target Compounds						
11)	B Heptachlo...	7.492	8.542	44372843	32618408	0.081	0.045m#
13)	B alpha-Chl...	7.796	9.037	149.5E6	57274557	0.271	0.078m#
15)	B 4,4'-DDE	7.934	9.306	1526.6E6	1467.8E6	3.082m	2.193m#
18)	A 4,4'-DDD	8.748	10.228	41429493	65361682	0.096	0.153m#
20)	MA 4,4'-DDT	9.153	10.747	1949.3E6	1802.4E6	4.952	4.039m
	SemiQuant Compounds - Not Calibrated on this Instrument						

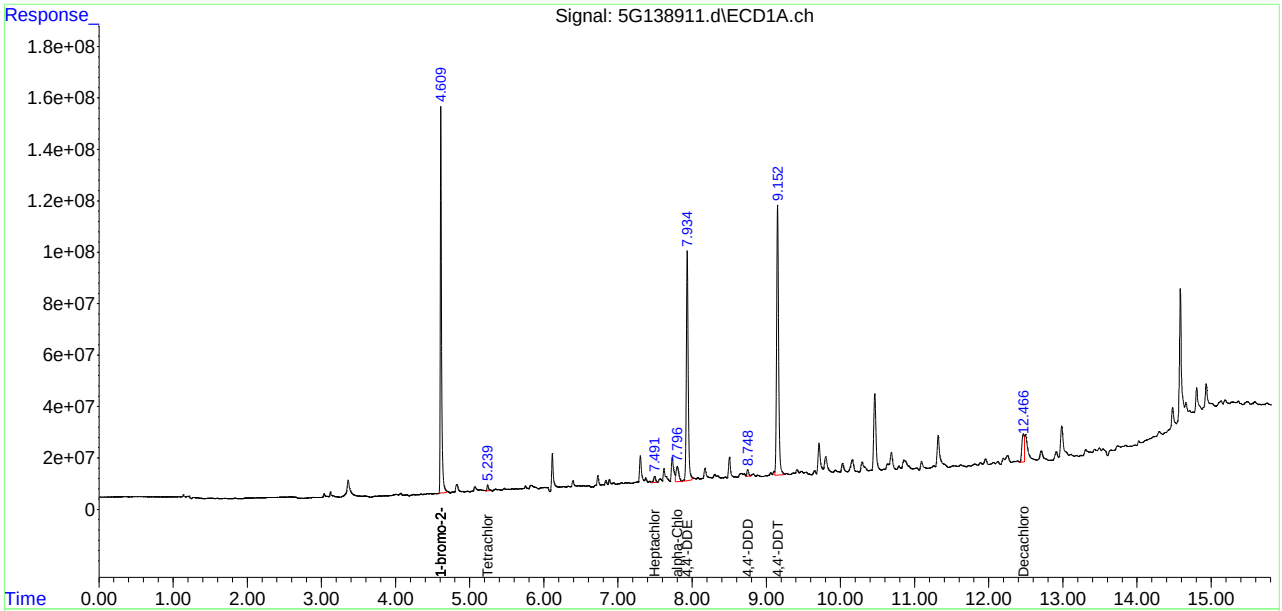
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

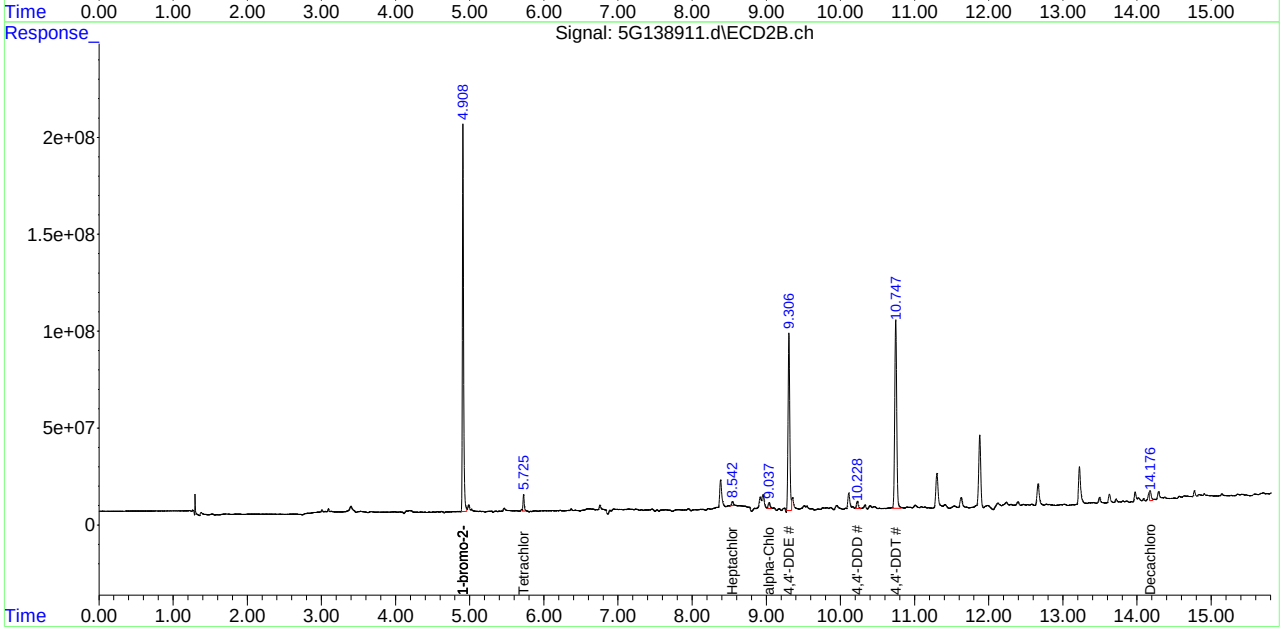
Quantitation Report (QT Reviewed)

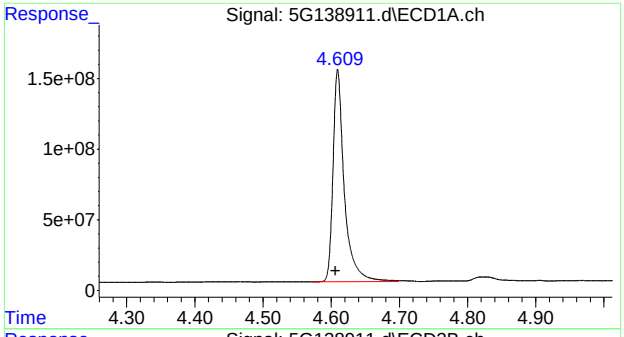
Data Path : C:\msdchem\1\data\g5g3661\
Data File : 5G138911.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 8:56 am
Operator : christp
Sample : jd91204-10 m
Misc : op55761,G5G3661,5.4,,,10,20
ALS Vial : 74 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 13:26:51 2024
Quant Method : C:\msdchem\1\data\carlos\g5g3661\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Tue Jul 02 07:23:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

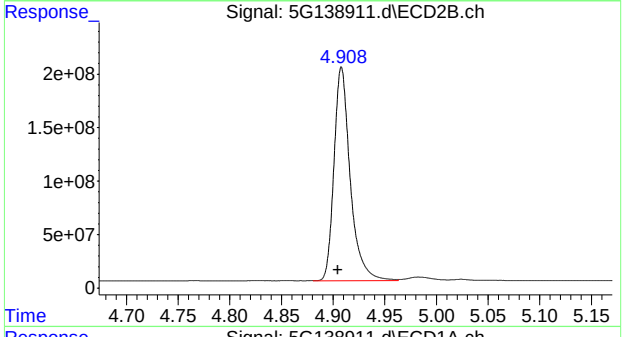






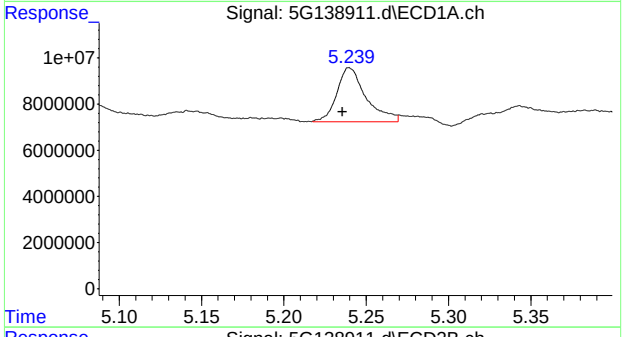
#1 1-bromo-2-nitrobenzene

R.T.: 4.609 min
Delta R.T.: 0.003 min
Response: 1731201642
Conc: 5.00 PPB m



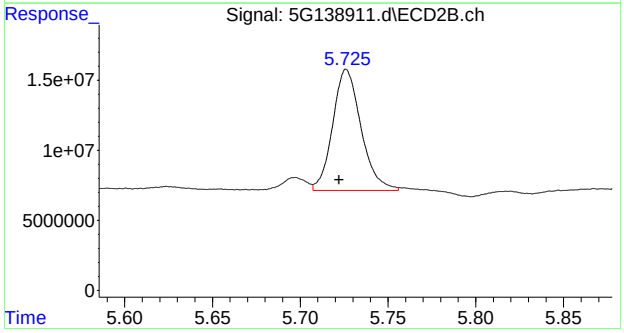
#1 1-bromo-2-nitrobenzene

R.T.: 4.908 min
Delta R.T.: 0.003 min
Response: 2184117227
Conc: 5.00 PPB m



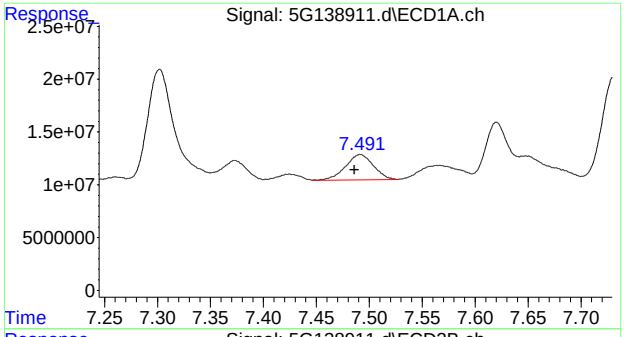
#2 Tetrachloro-m-xylene

R.T.: 5.239 min
Delta R.T.: 0.004 min
Response: 29102498
Conc: 0.16 PPB m



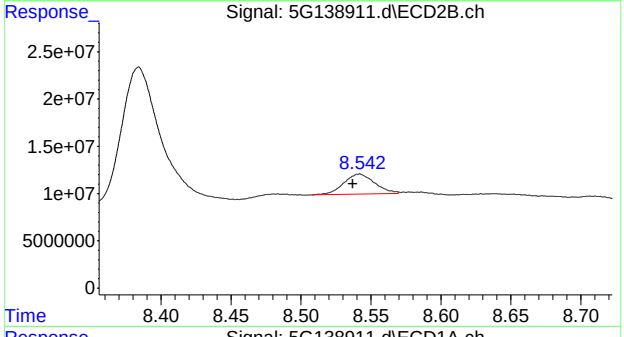
#2 Tetrachloro-m-xylene

R.T.: 5.725 min
Delta R.T.: 0.003 min
Response: 97074105
Conc: 0.17 PPB m



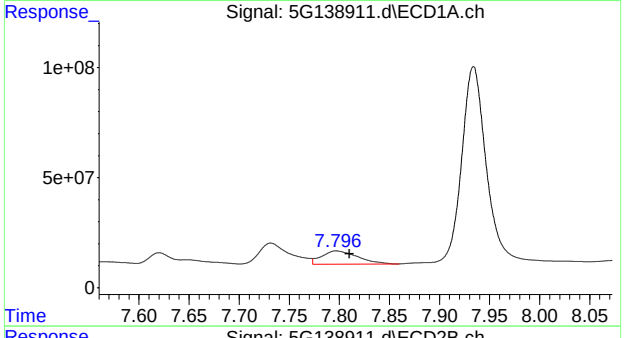
#11 Heptachlor Epoxide

R.T.: 7.492 min
Delta R.T.: 0.006 min
Response: 44372843
Conc: 0.08 PPB



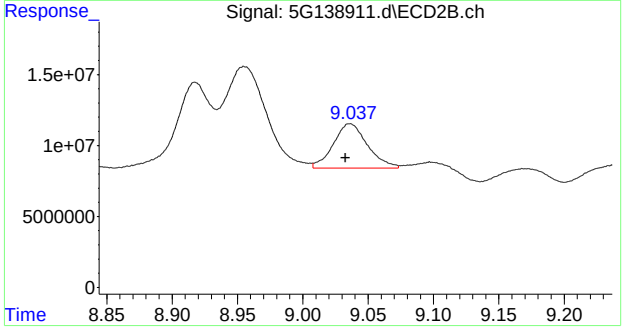
#11 Heptachlor Epoxide

R.T.: 8.542 min
Delta R.T.: 0.005 min
Response: 32618408
Conc: 0.05 PPB m



#13 alpha-Chlordane

R.T.: 7.796 min
Delta R.T.: -0.014 min
Response: 149500735
Conc: 0.27 PPB

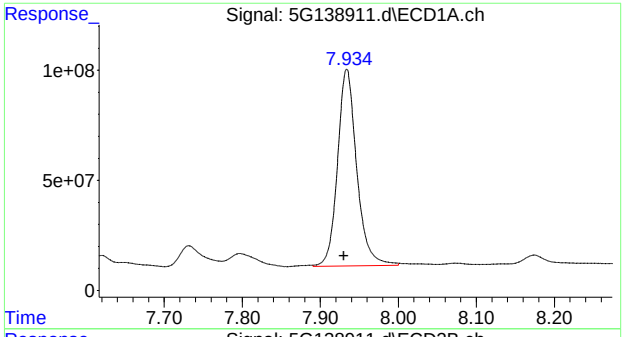


#13 alpha-Chlordane

R.T.: 9.037 min
Delta R.T.: 0.004 min
Response: 57274557
Conc: 0.08 PPB m

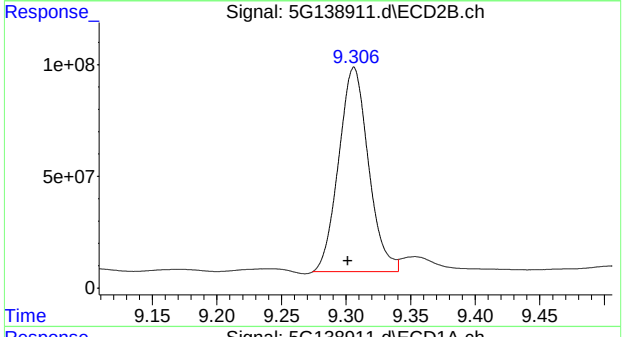
9.1.17

9



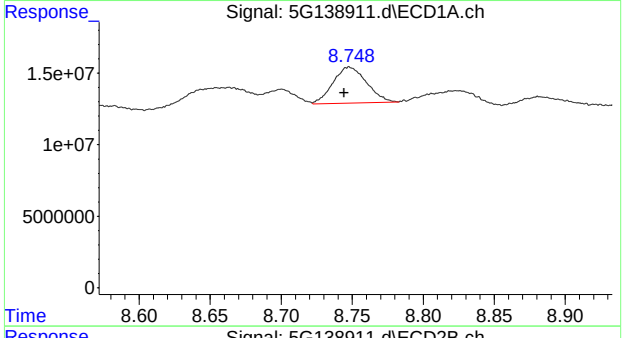
#15 4,4'-DDE

R.T.: 7.934 min
Delta R.T.: 0.003 min
Response: 1526551998
Conc: 3.08 PPB m



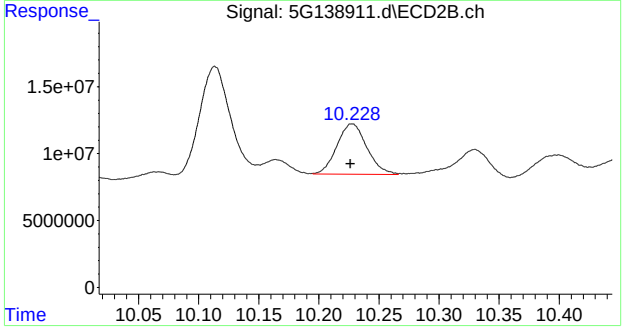
#15 4,4'-DDE

R.T.: 9.306 min
Delta R.T.: 0.005 min
Response: 1467796762
Conc: 2.19 PPB m



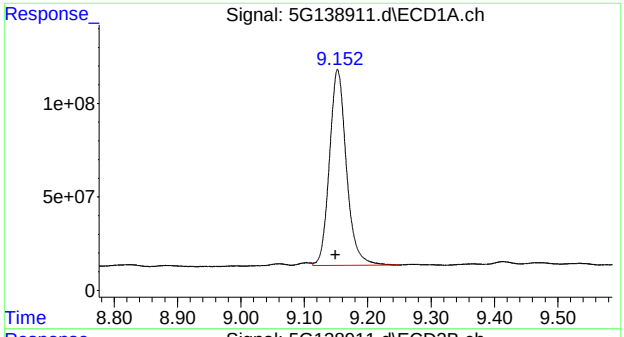
#18 4,4'-DDD

R.T.: 8.748 min
Delta R.T.: 0.004 min
Response: 41429493
Conc: 0.10 PPB



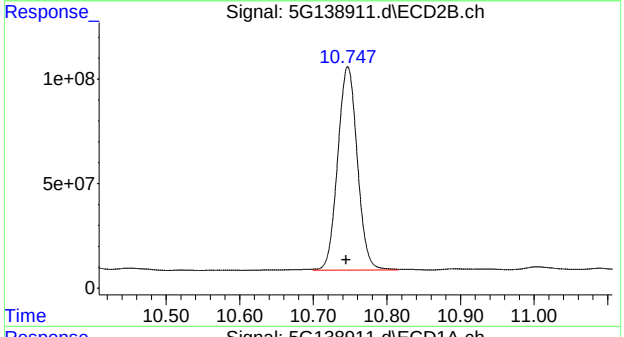
#18 4,4'-DDD

R.T.: 10.228 min
Delta R.T.: 0.001 min
Response: 65361682
Conc: 0.15 PPB m



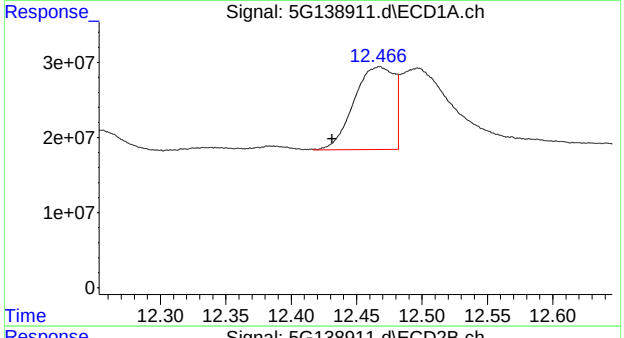
#20 4,4'-DDT

R.T.: 9.153 min
Delta R.T.: 0.003 min
Response: 1949331662
Conc: 4.95 PPB



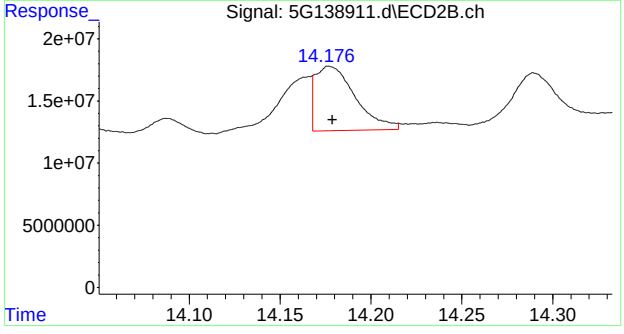
#20 4,4'-DDT

R.T.: 10.747 min
Delta R.T.: 0.003 min
Response: 1802382251
Conc: 4.04 PPB m



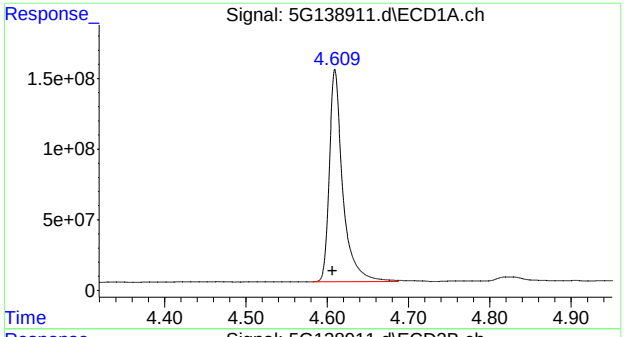
#26 Decachlorobiphenyl

R.T.: 12.466 min
Delta R.T.: 0.035 min
Response: 236407549
Conc: 0.47 PPB m



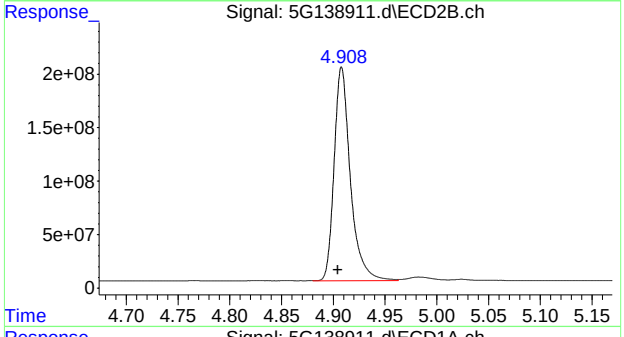
#26 Decachlorobiphenyl

R.T.: 14.176 min
Delta R.T.: -0.003 min
Response: 78672331
Conc: 0.18 PPB m



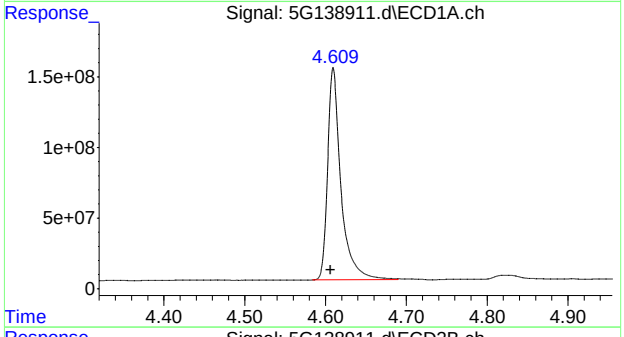
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.609 min
Delta R.T.: 0.003 min
Response: 1723202215
Conc: 5.00 PPB m



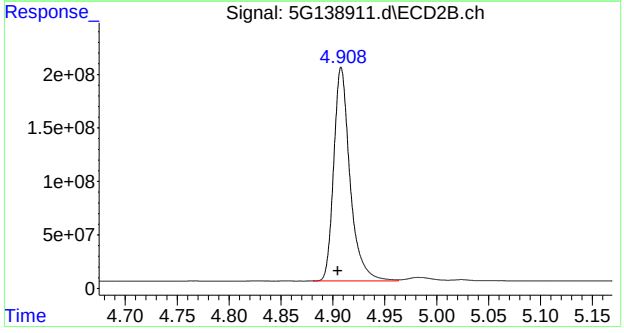
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.908 min
Delta R.T.: 0.003 min
Response: 2183943949
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.609 min
Delta R.T.: 0.003 min
Response: 1716163105
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.908 min
Delta R.T.: 0.003 min
Response: 2182842493
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 09:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\g5g3659\
Data File : 5G138868.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 5:43 am
Operator : christp
Sample : jd91204-11 m
Misc : op55761,G5G3659,5.3,,,10,1
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 12:00:54 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.607	4.903	2333.5E6	1848.3E6	5.000m	5.000m
27)	I 1-bromo-2...	4.607	4.903	2344.2E6	1859.1E6	5.000m	5.000m
33)	I 1-bromo-2...	4.607	4.903	2343.4E6	1846.1E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.234	5.720	393.3E6	1167.5E6	1.563m	2.367m#
	Spiked Amount 40.000	Range 30 - 150		Recovery =		3.91%#	5.92%#
26)	SA Decachlor...	12.468f	14.176	10227.3E6	2774.6E6	15.137m	7.550m#
	Spiked Amount 40.000			Recovery =		37.84%	18.88%
	Target Compounds						
11)	B Heptachlo...	7.486	8.536	434.5E6	183.3E6	0.590m	0.302m#
12)	B gamma-Chl...	7.643	8.817	2188.2E6	848.2E6	2.777m	1.327m#
13)	B alpha-Chl...	7.805	9.032	3642.6E6	1625.4E6	4.891m	2.613m#
15)	B 4,4'-DDE	7.928	9.300	2624.4E6	1511.5E6	3.930m	2.669m#
16)	MA Dieldrin	8.295	9.539	483.2E6	378.0E6	0.616m	0.636m
18)	A 4,4'-DDD	8.742	10.222	288.4E6	250.6E6	0.497m	0.695m#
20)	MA 4,4'-DDT	9.147	10.744	1685.8E6	1467.1E6	3.177m	3.885m

SemiQuant Compounds - Not Calibrated on this Instrument

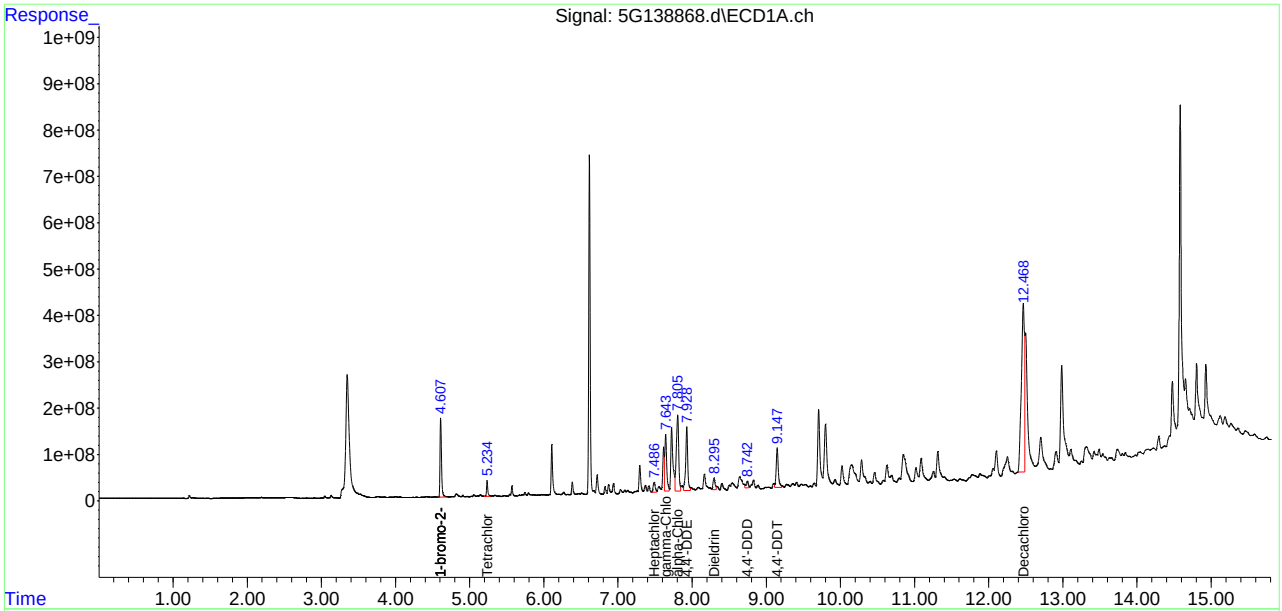
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

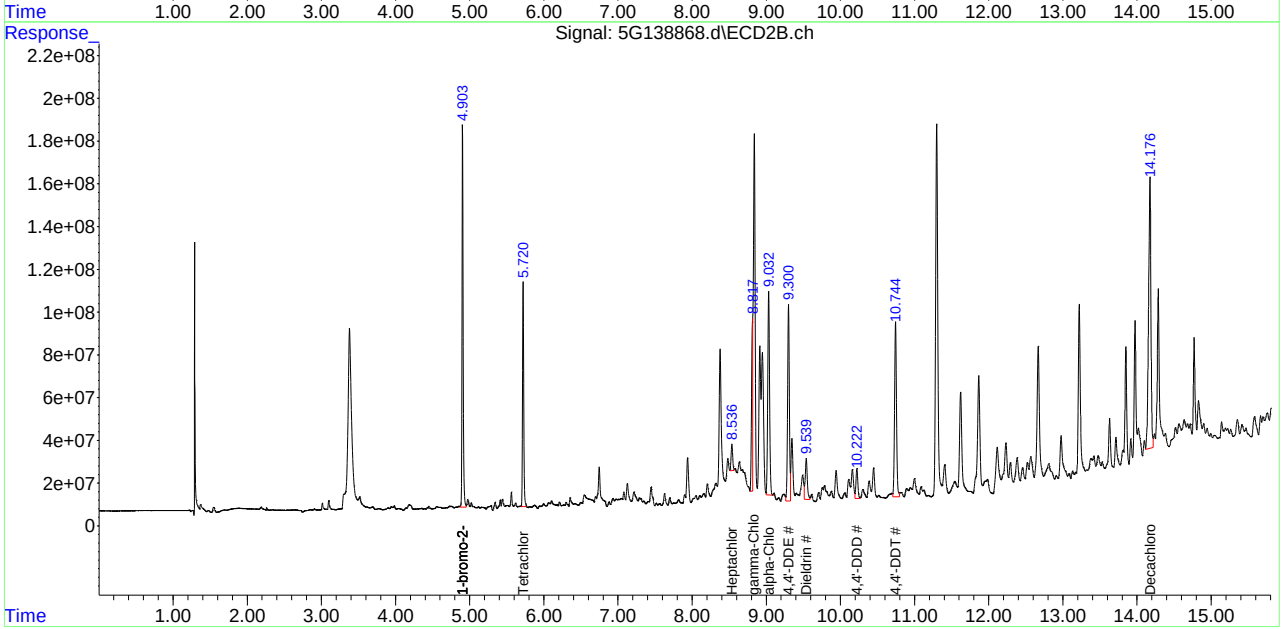
Quantitation Report (QT Reviewed)

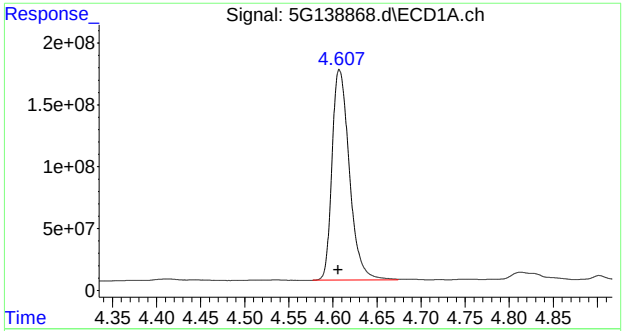
Data Path : C:\msdchem\1\data\laylanie\g5g3659\
Data File : 5G138868.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 5:43 am
Operator : christp
Sample : jd91204-11 m
Misc : op55761,G5G3659,5.3,,,10,1
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 12:00:54 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

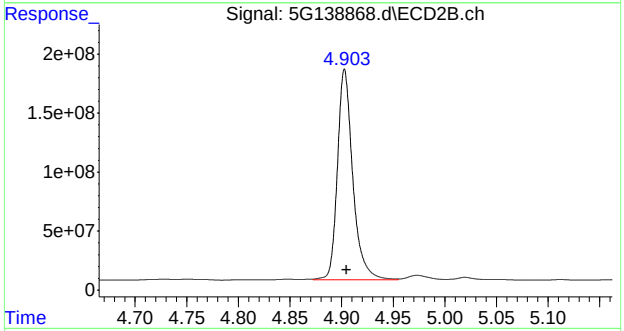






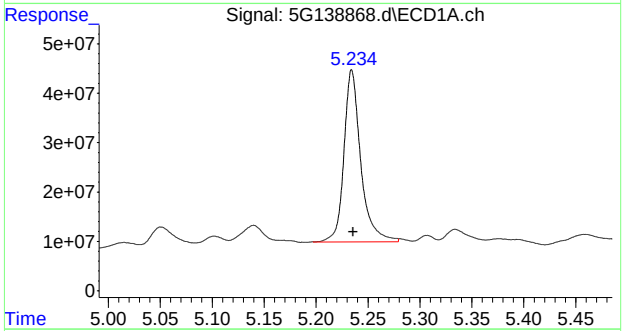
#1 1-bromo-2-nitrobenzene

R.T.: 4.607 min
Delta R.T.: 0.000 min
Response: 2333450770
Conc: 5.00 PPB m



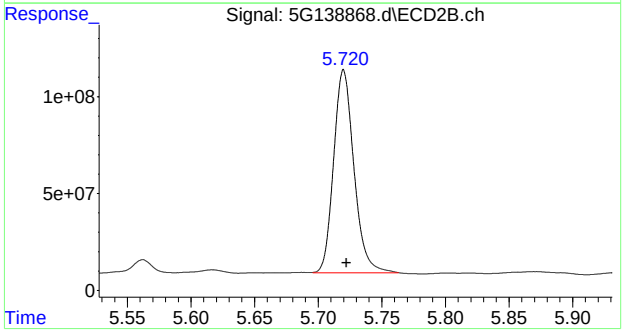
#1 1-bromo-2-nitrobenzene

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 1848281546
Conc: 5.00 PPB m



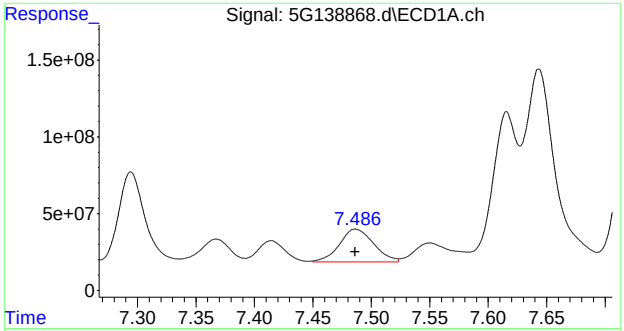
#2 Tetrachloro-m-xylene

R.T.: 5.234 min
Delta R.T.: -0.002 min
Response: 393331865
Conc: 1.56 PPB m



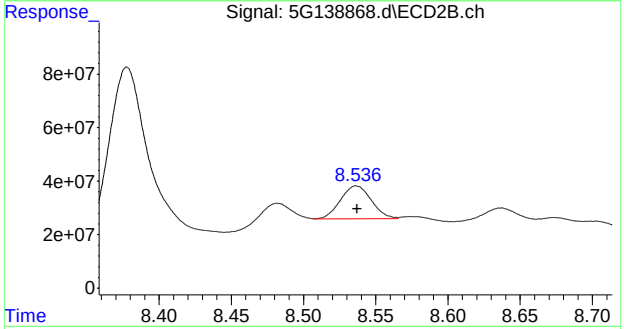
#2 Tetrachloro-m-xylene

R.T.: 5.720 min
Delta R.T.: -0.003 min
Response: 1167478015
Conc: 2.37 PPB m



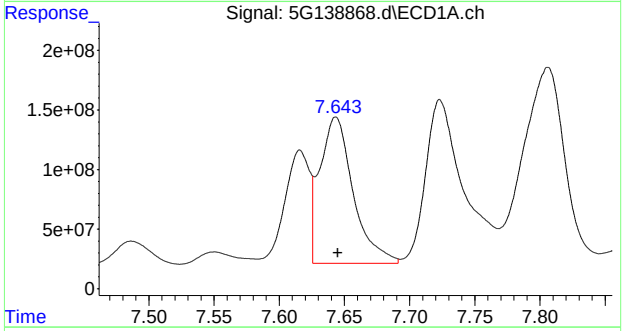
#11 Heptachlor Epoxide

R.T.: 7.486 min
Delta R.T.: 0.000 min
Response: 434543869
Conc: 0.59 PPB m



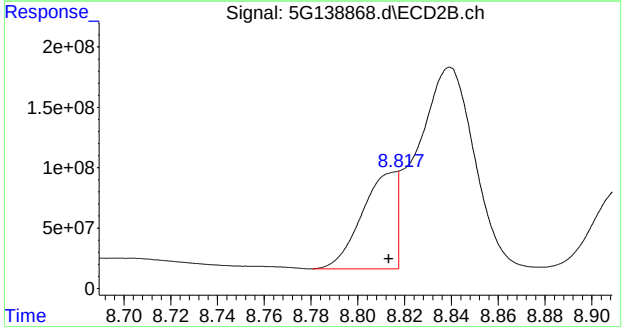
#11 Heptachlor Epoxide

R.T.: 8.536 min
Delta R.T.: -0.001 min
Response: 183260131
Conc: 0.30 PPB m



#12 gamma-Chlordane

R.T.: 7.643 min
Delta R.T.: -0.001 min
Response: 2188244358
Conc: 2.78 PPB m

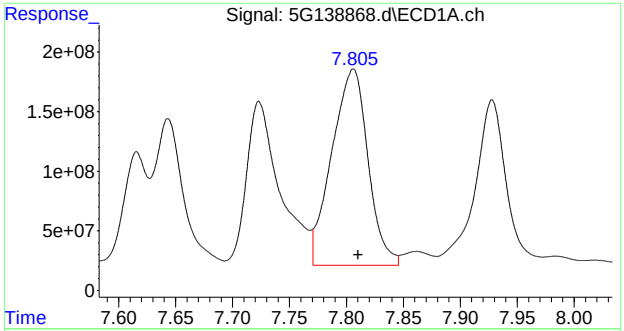


#12 gamma-Chlordane

R.T.: 8.817 min
Delta R.T.: 0.004 min
Response: 848174161
Conc: 1.33 PPB m

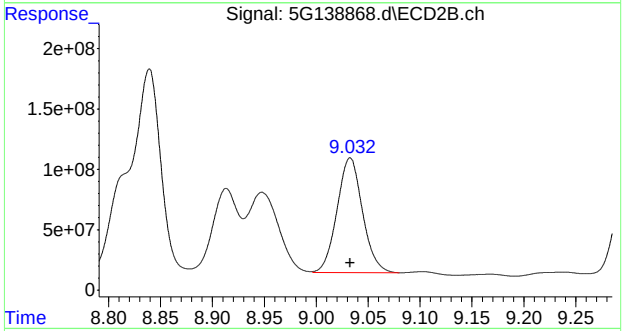
9.1.18

9



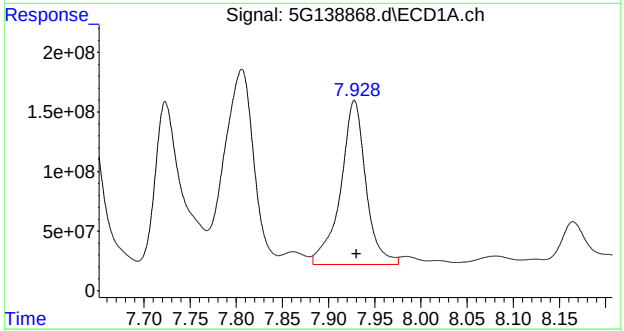
#13 alpha-Chlordane

R.T.: 7.805 min
Delta R.T.: -0.005 min
Response: 3642603799
Conc: 4.89 PPB m



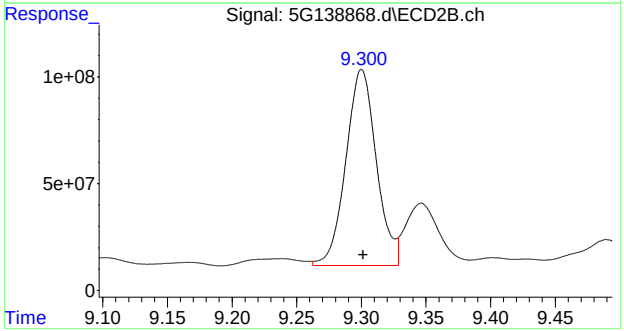
#13 alpha-Chlordane

R.T.: 9.032 min
Delta R.T.: 0.000 min
Response: 1625388462
Conc: 2.61 PPB m



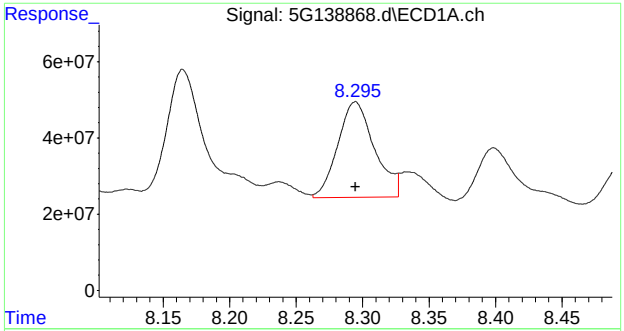
#15 4,4'-DDE

R.T.: 7.928 min
Delta R.T.: -0.002 min
Response: 2624387703
Conc: 3.93 PPB m



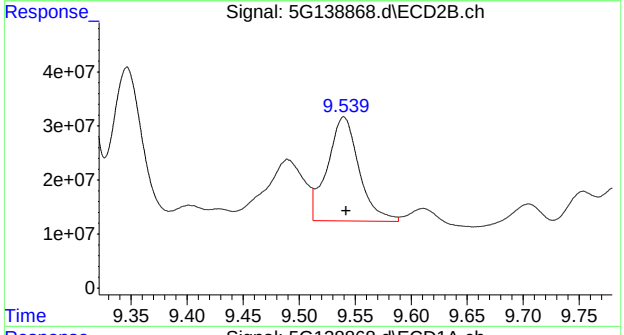
#15 4,4'-DDE

R.T.: 9.300 min
Delta R.T.: -0.001 min
Response: 1511543043
Conc: 2.67 PPB m



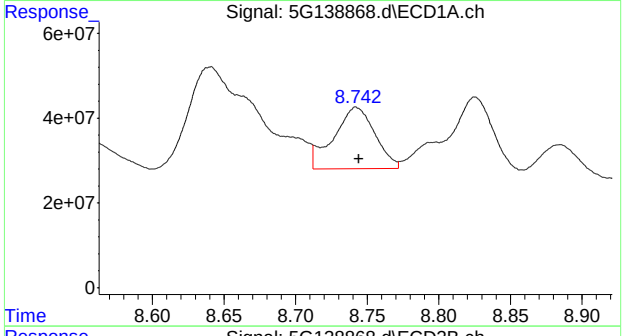
#16 Dieldrin

R.T.: 8.295 min
Delta R.T.: 0.000 min
Response: 483197194
Conc: 0.62 PPB m



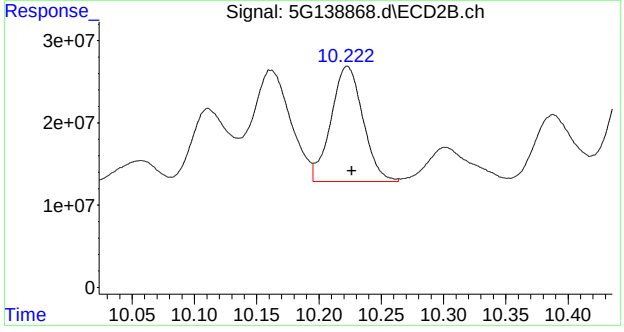
#16 Dieldrin

R.T.: 9.539 min
Delta R.T.: -0.002 min
Response: 377966735
Conc: 0.64 PPB m



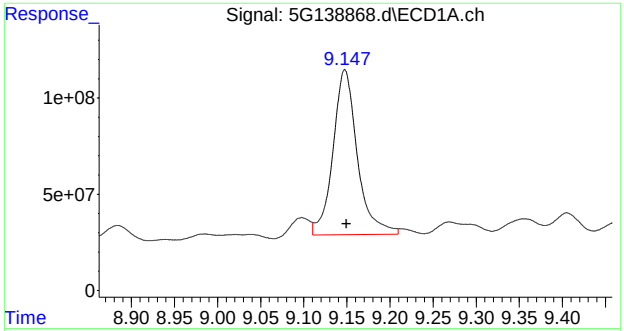
#18 4,4'-DDD

R.T.: 8.742 min
Delta R.T.: -0.002 min
Response: 288362448
Conc: 0.50 PPB m



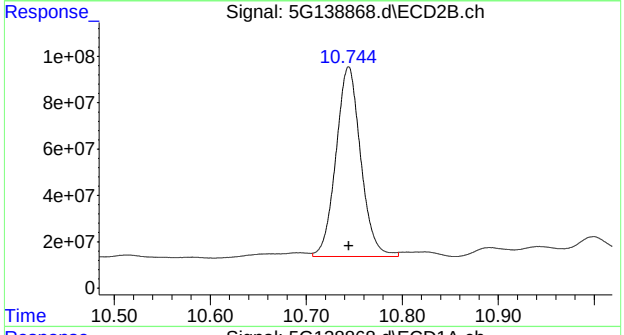
#18 4,4'-DDD

R.T.: 10.222 min
Delta R.T.: -0.004 min
Response: 250645420
Conc: 0.69 PPB m



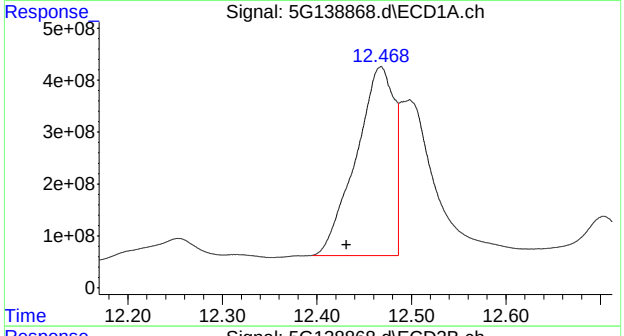
#20 4,4'-DDT

R.T.: 9.147 min
Delta R.T.: -0.002 min
Response: 1685766962
Conc: 3.18 PPB m



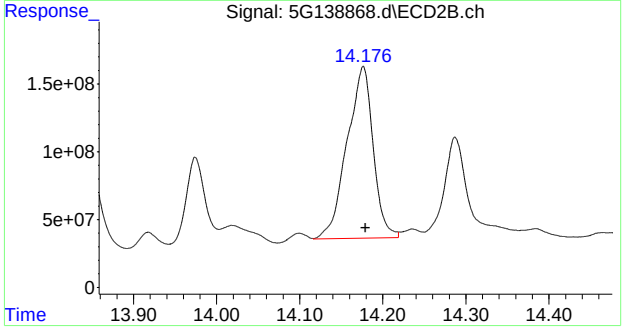
#20 4,4'-DDT

R.T.: 10.744 min
Delta R.T.: 0.000 min
Response: 1467144151
Conc: 3.89 PPB m



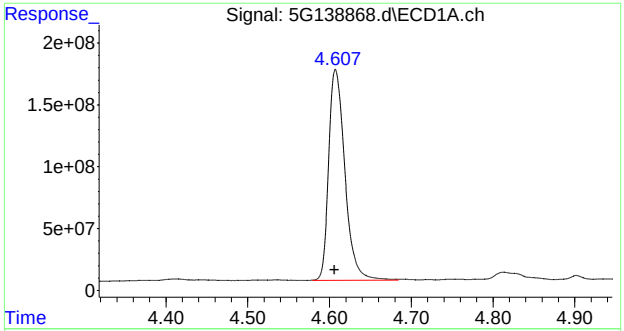
#26 Decachlorobiphenyl

R.T.: 12.468 min
Delta R.T.: 0.037 min
Response: 10227282180
Conc: 15.14 PPB m



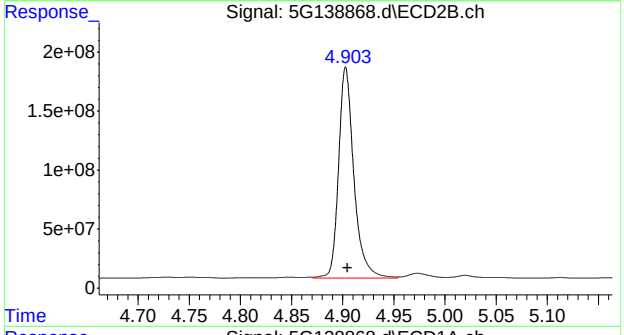
#26 Decachlorobiphenyl

R.T.: 14.176 min
Delta R.T.: -0.002 min
Response: 2774642050
Conc: 7.55 PPB m



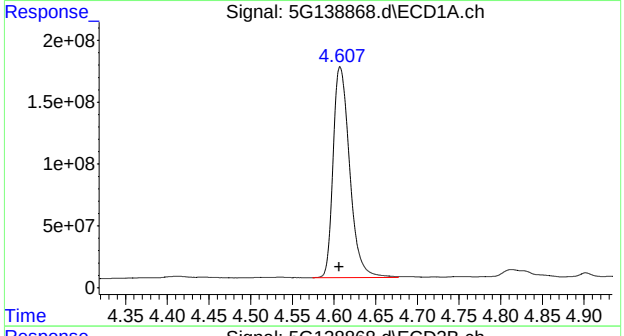
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.607 min
Delta R.T.: 0.000 min
Response: 2344199134
Conc: 5.00 PPB m



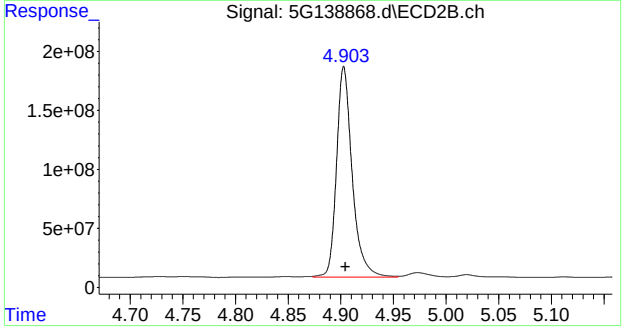
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 1859057499
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.607 min
Delta R.T.: 0.000 min
Response: 2343430833
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 1846115842
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 09:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\g5g3659\
Data File : 5G138869.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 6:04 am
Operator : christp
Sample : jd91204-12 m
Misc : op55761,G5G3659,5.3,,,10,1
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 12:07:37 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.605	4.903	1621.9E6	1710.4E6	5.000m	5.000m
27)	I 1-bromo-2...	4.605	4.903	1621.4E6	1712.3E6	5.000m	5.000m
33)	I 1-bromo-2...	4.605	4.903	1617.5E6	1725.1E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.235	5.721	395.5E6	1322.0E6	2.262m	2.897m#
	Spiked Amount 40.000	Range 30 - 150		Recovery =		5.66%#	7.24%#
26)	SA Decachlor...	12.467f	14.175	4764.4E6	1716.6E6	10.145m	5.047m#
	Spiked Amount 40.000			Recovery =		25.36%	12.62%
	Target Compounds						
11)	B Heptachlo...	7.488	8.536	252.3E6	140.7E6	0.493m	0.251m#
12)	B gamma-Chl...	7.643	8.813	547.6E6	175.1E6	1.000m	0.296m#
13)	B alpha-Chl...	7.800	9.033	1180.3E6	445.3E6	2.280m	0.774m#
15)	B 4,4'-DDE	7.927	9.299	742.1E6	252.7E6	1.599m	0.482m#
16)	MA Dieldrin	8.294	9.538	242.1E6	193.8E6	0.444m	0.352m
18)	A 4,4'-DDD	8.744	10.222	74349110	55149082	0.185m	0.165m
20)	MA 4,4'-DDT	9.145	10.742	489.0E6	519.5E6	1.326m	1.487m
	SemiQuant Compounds - Not Calibrated on this Instrument						

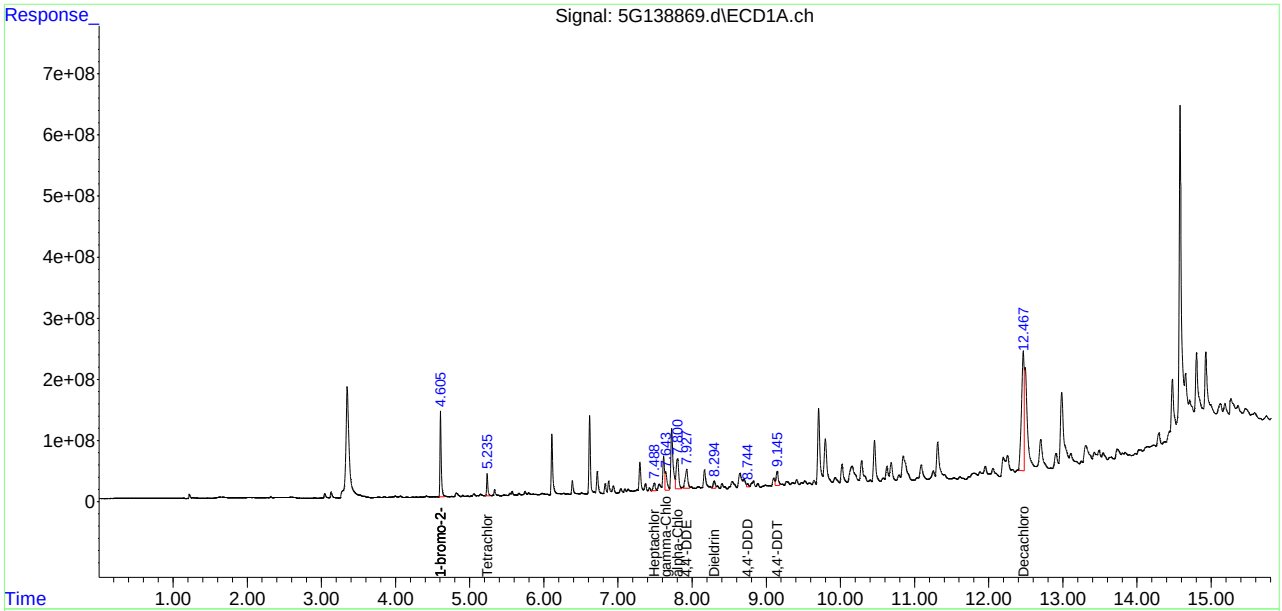
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

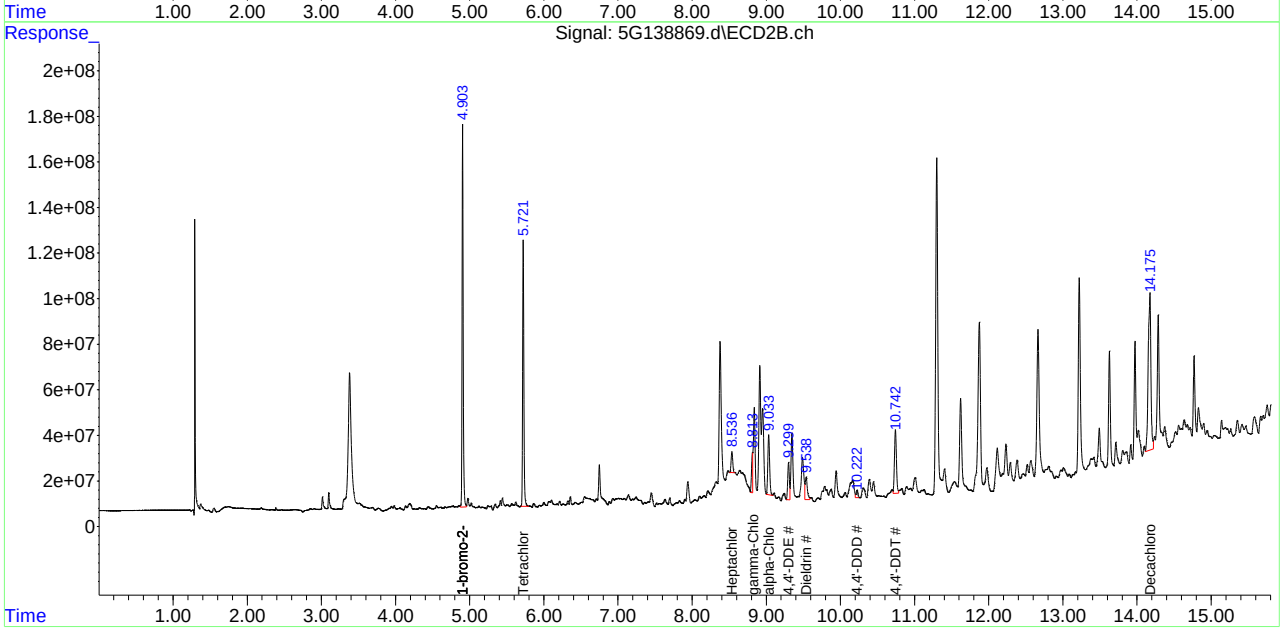
Quantitation Report (QT Reviewed)

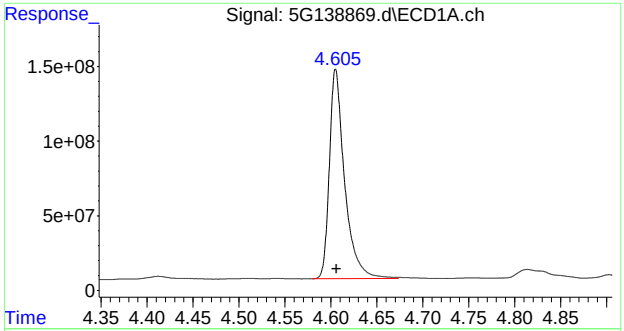
Data Path : C:\msdchem\1\data\laylanie\g5g3659\
Data File : 5G138869.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 6:04 am
Operator : christp
Sample : jd91204-12 m
Misc : op55761,G5G3659,5.3,,,10,1
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 12:07:37 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

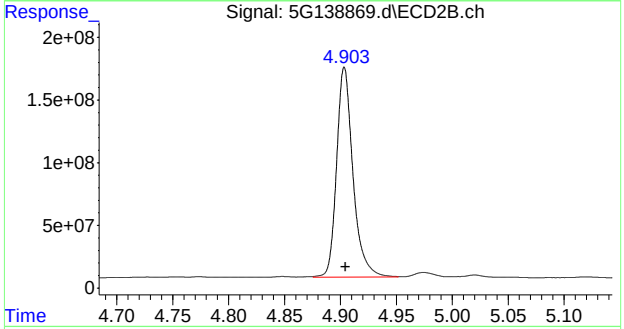






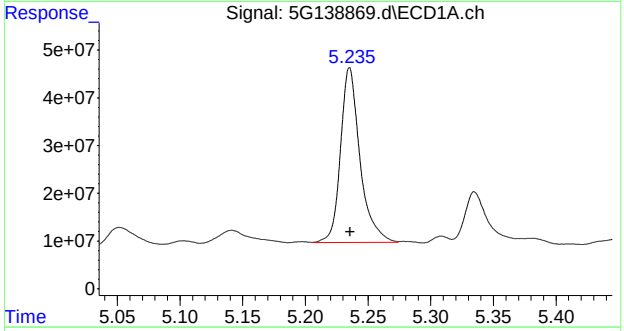
#1 1-bromo-2-nitrobenzene

R.T.: 4.605 min
Delta R.T.: -0.001 min
Response: 1621905675
Conc: 5.00 PPB m



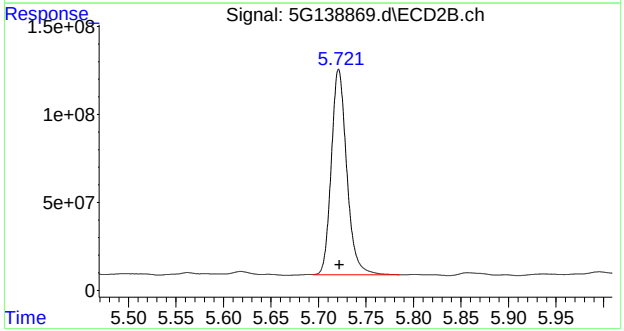
#1 1-bromo-2-nitrobenzene

R.T.: 4.903 min
Delta R.T.: -0.001 min
Response: 1710410117
Conc: 5.00 PPB m



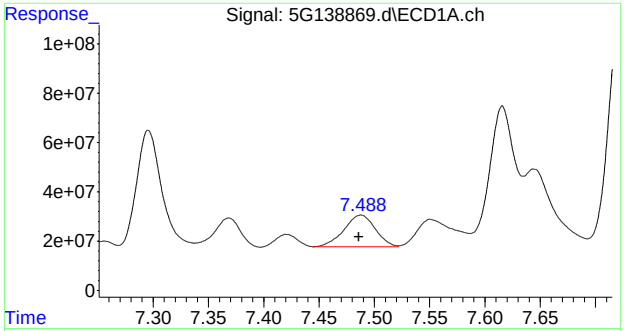
#2 Tetrachloro-m-xylene

R.T.: 5.235 min
Delta R.T.: 0.000 min
Response: 395485109
Conc: 2.26 PPB m



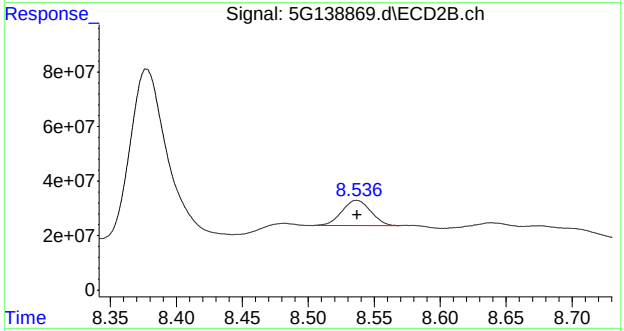
#2 Tetrachloro-m-xylene

R.T.: 5.721 min
Delta R.T.: -0.001 min
Response: 1322002308
Conc: 2.90 PPB m



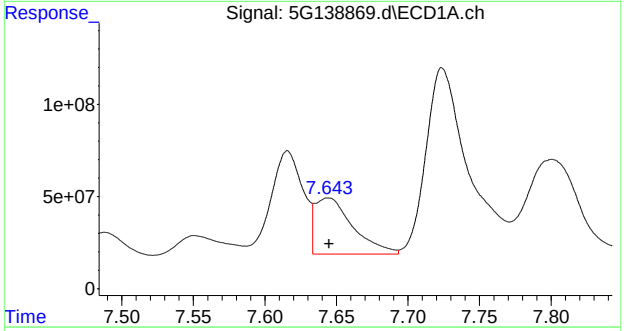
#11 Heptachlor Epoxide

R.T.: 7.488 min
Delta R.T.: 0.002 min
Response: 252275419
Conc: 0.49 PPB m



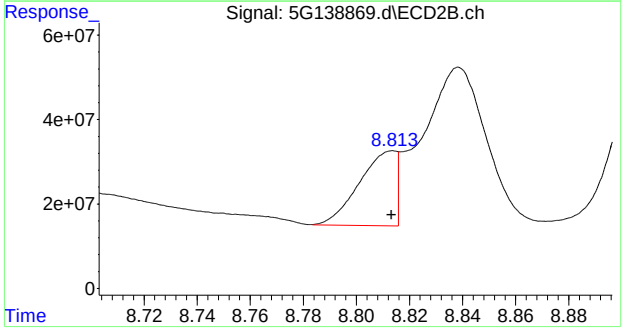
#11 Heptachlor Epoxide

R.T.: 8.536 min
Delta R.T.: 0.000 min
Response: 140689156
Conc: 0.25 PPB m



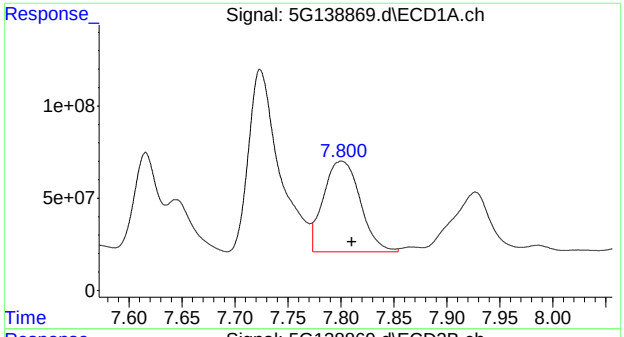
#12 gamma-Chlordane

R.T.: 7.643 min
Delta R.T.: -0.002 min
Response: 547598148
Conc: 1.00 PPB m



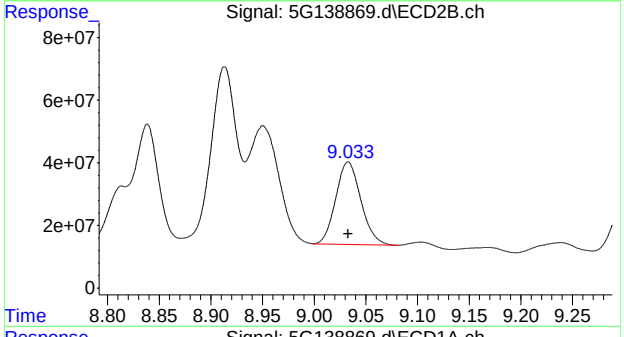
#12 gamma-Chlordane

R.T.: 8.813 min
Delta R.T.: 0.000 min
Response: 175053456
Conc: 0.30 PPB m



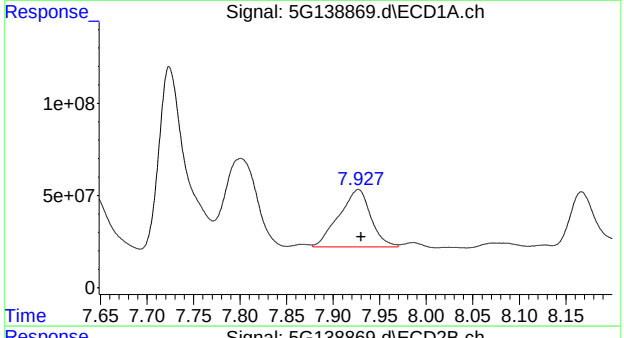
#13 alpha-Chlordane

R.T.: 7.800 min
Delta R.T.: -0.010 min
Response: 1180314164
Conc: 2.28 PPB m



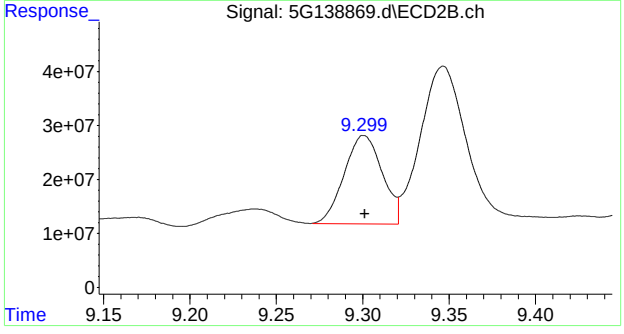
#13 alpha-Chlordane

R.T.: 9.033 min
Delta R.T.: 0.000 min
Response: 445332785
Conc: 0.77 PPB m



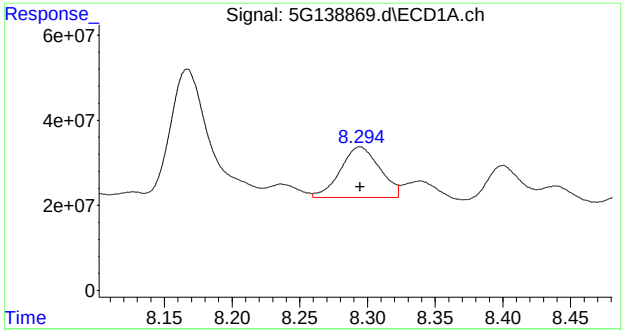
#15 4,4'-DDE

R.T.: 7.927 min
Delta R.T.: -0.003 min
Response: 742132732
Conc: 1.60 PPB m



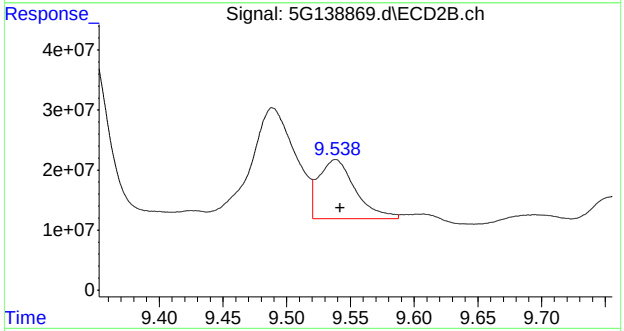
#15 4,4'-DDE

R.T.: 9.299 min
Delta R.T.: -0.002 min
Response: 252662759
Conc: 0.48 PPB m



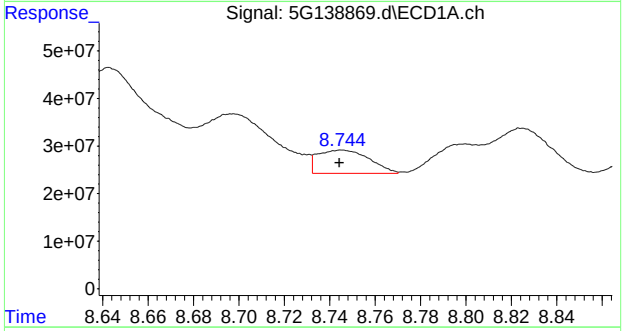
#16 Dieldrin

R.T.: 8.294 min
Delta R.T.: 0.000 min
Response: 242133906
Conc: 0.44 PPB m



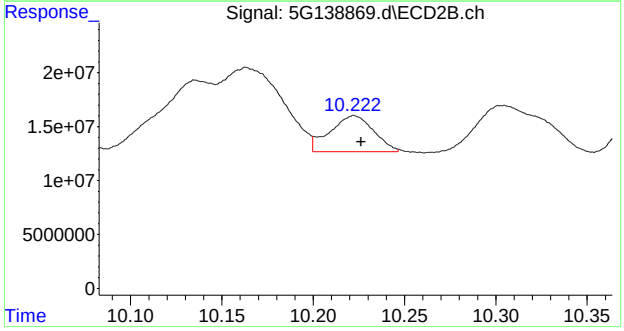
#16 Dieldrin

R.T.: 9.538 min
Delta R.T.: -0.004 min
Response: 193761608
Conc: 0.35 PPB m



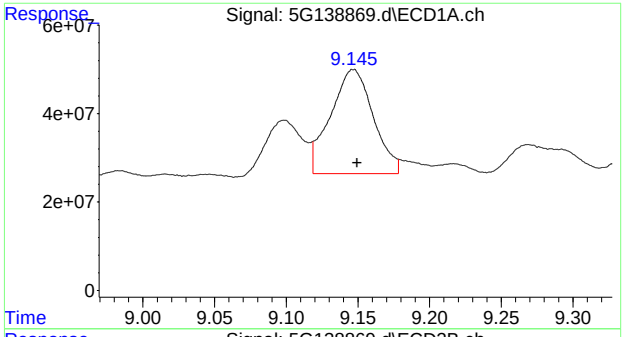
#18 4,4'-DDD

R.T.: 8.744 min
Delta R.T.: 0.000 min
Response: 74349110
Conc: 0.18 PPB m



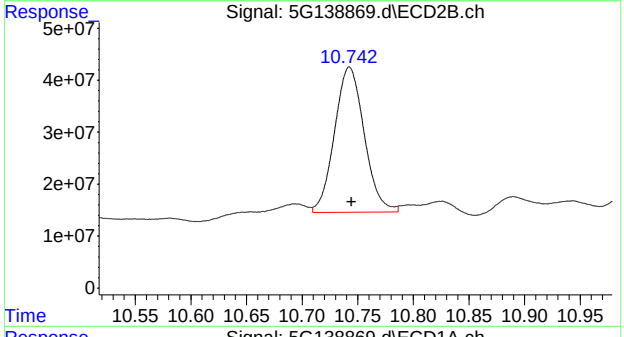
#18 4,4'-DDD

R.T.: 10.222 min
Delta R.T.: -0.005 min
Response: 55149082
Conc: 0.17 PPB m



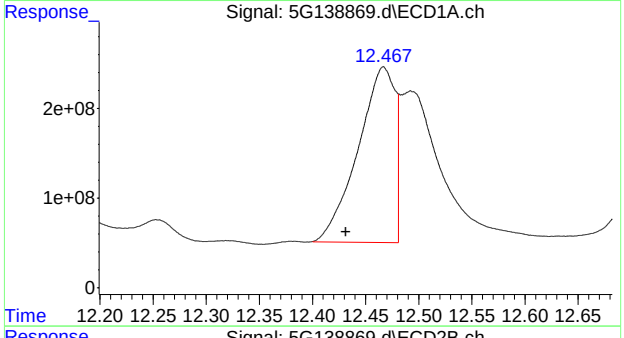
#20 4,4'-DDT

R.T.: 9.145 min
Delta R.T.: -0.004 min
Response: 488987366
Conc: 1.33 PPB m



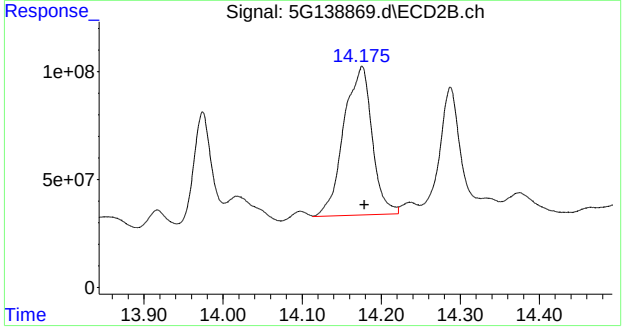
#20 4,4'-DDT

R.T.: 10.742 min
Delta R.T.: -0.002 min
Response: 519466884
Conc: 1.49 PPB m



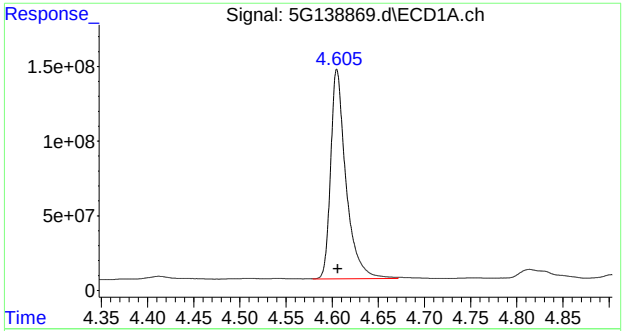
#26 Decachlorobiphenyl

R.T.: 12.467 min
Delta R.T.: 0.036 min
Response: 4764402658
Conc: 10.15 PPB m



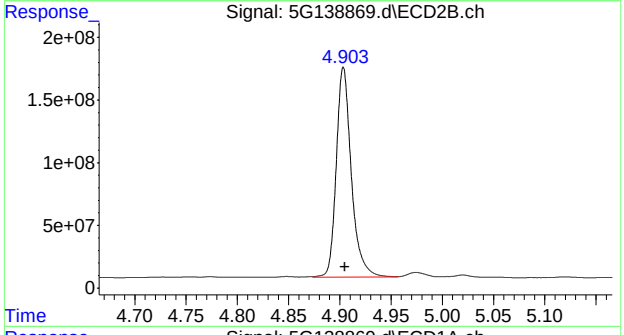
#26 Decachlorobiphenyl

R.T.: 14.175 min
Delta R.T.: -0.004 min
Response: 1716591845
Conc: 5.05 PPB m



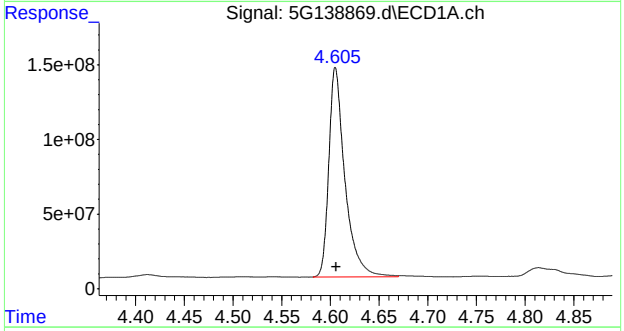
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.605 min
Delta R.T.: -0.001 min
Response: 1621444147
Conc: 5.00 PPB m



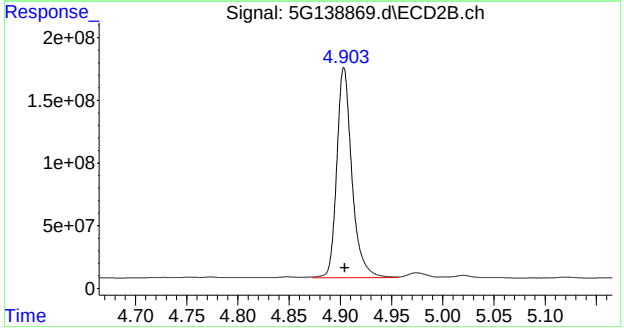
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.903 min
Delta R.T.: -0.001 min
Response: 1712342763
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.605 min
Delta R.T.: -0.001 min
Response: 1617528008
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.903 min
Delta R.T.: -0.001 min
Response: 1725103115
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 09:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g5g3659\
Data File : 5G138870.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 6:25 am
Operator : christp
Sample : jd91204-13 m
Misc : op55761,G5G3659,5.2,,,10,1
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 09:32:52 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.604	4.903	1772.4E6	1979.8E6	5.000m	5.000m
27)	I 1-bromo-2...	4.604	4.903	1764.7E6	1980.2E6	5.000m	5.000m
33)	I 1-bromo-2...	4.604	4.903	1769.7E6	1989.5E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.234	5.720	414.6E6	1475.7E6	2.170m	2.793m#
	Spiked Amount 40.000	Range 30 - 150		Recovery =		5.42%#	6.98%#
26)	SA Decachlor...	12.446f	14.176	2032.0E6	1247.0E6	3.959m	3.168m
	Spiked Amount 40.000			Recovery =		9.90%	7.92%
	Target Compounds						
11)	B Heptachlo...	7.480	8.536	74403787	41835573	0.133m	0.064m#
12)	B gamma-Chl...	7.636	8.806	50893313	28709932	0.085m	0.042m#
13)	B alpha-Chl...	7.790f	9.032	434.4E6	47329922	0.768m	0.071m#
15)	B 4,4'-DDE	7.927	9.301	434.9E6	186.3E6	0.858m	0.307m#
16)	MA Dieldrin	8.296	9.540	78492056	48888728	0.132m	0.077m#
18)	A 4,4'-DDD	8.746	10.220	48100377	26251990	0.109m	0.068m#
20)	MA 4,4'-DDT	9.144	10.743	295.3E6	292.5E6	0.733m	0.723m
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

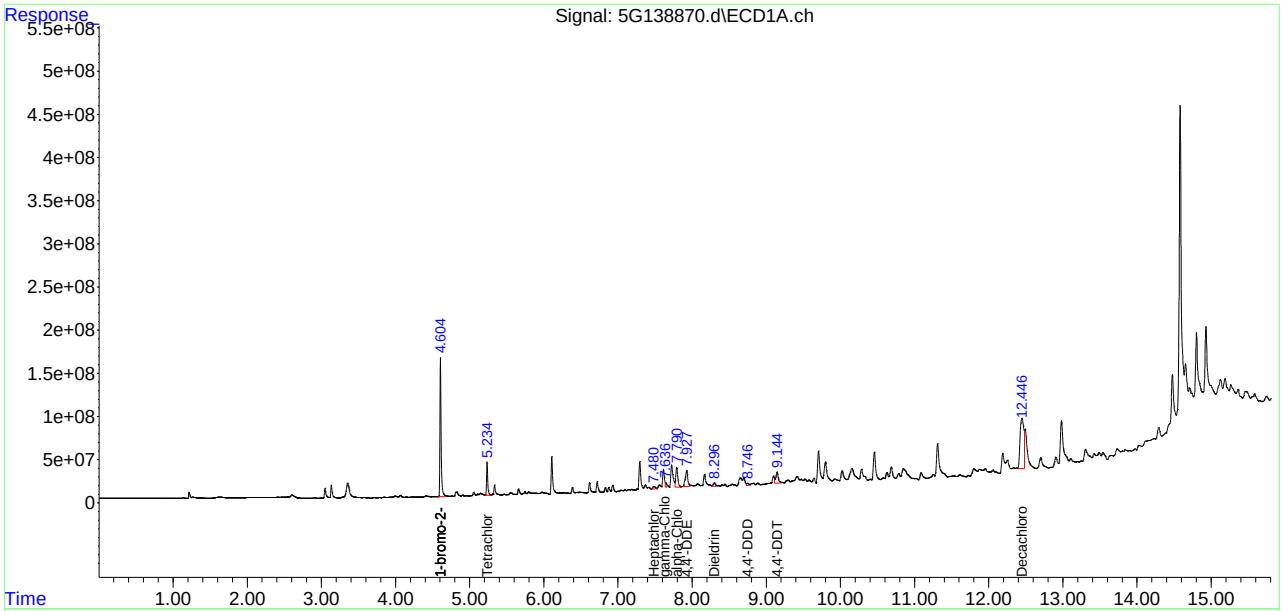
9.1.20
9

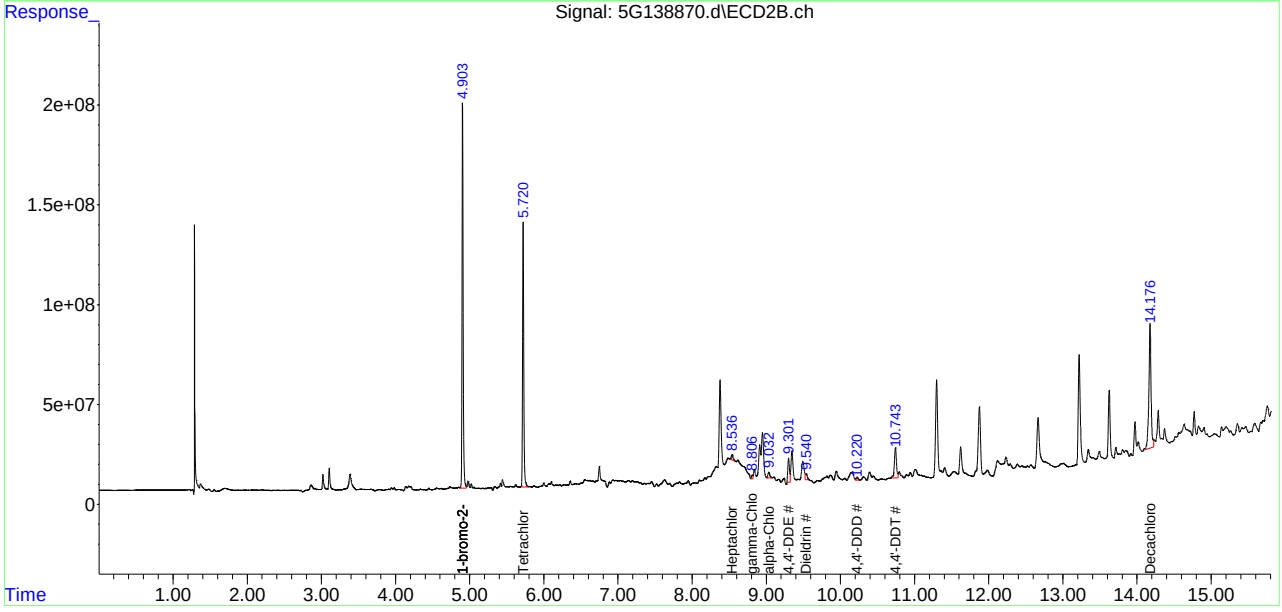
Quantitation Report (QT Reviewed)

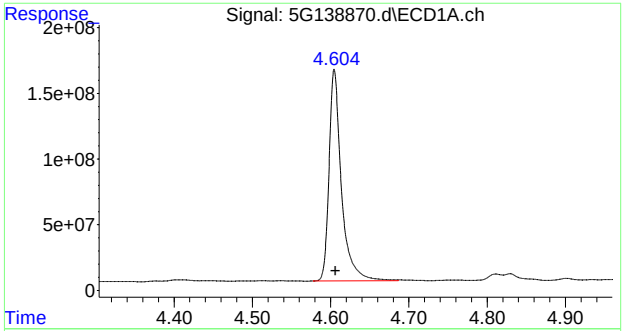
Data Path : C:\msdchem\1\data\g5g3659\
Data File : 5G138870.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 6:25 am
Operator : christp
Sample : jd91204-13 m
Misc : op55761,G5G3659,5.2,,,10,1
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 09:32:52 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

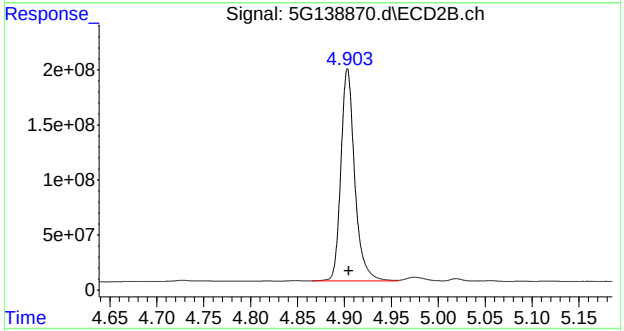






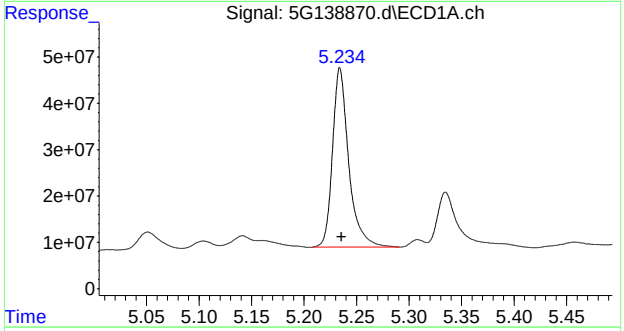
#1 1-bromo-2-nitrobenzene

R.T.: 4.604 min
Delta R.T.: -0.002 min
Response: 1772405594
Conc: 5.00 PPB m



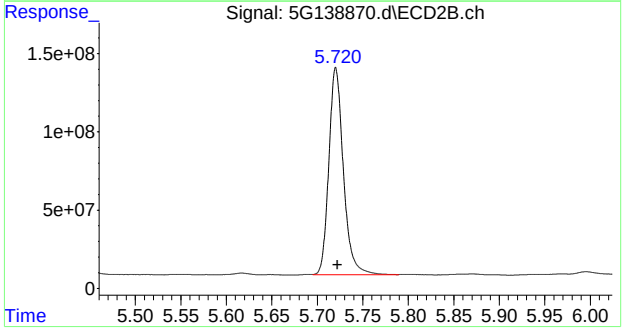
#1 1-bromo-2-nitrobenzene

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 1979829081
Conc: 5.00 PPB m



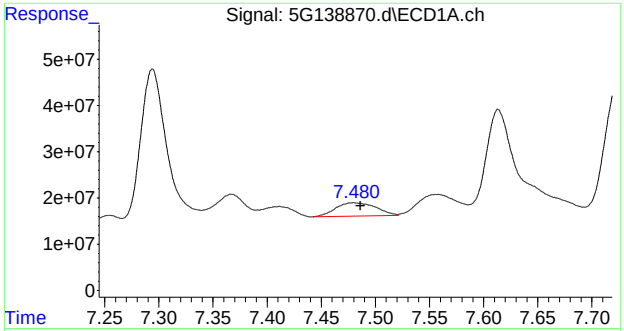
#2 Tetrachloro-m-xylene

R.T.: 5.234 min
Delta R.T.: -0.002 min
Response: 414601345
Conc: 2.17 PPB m



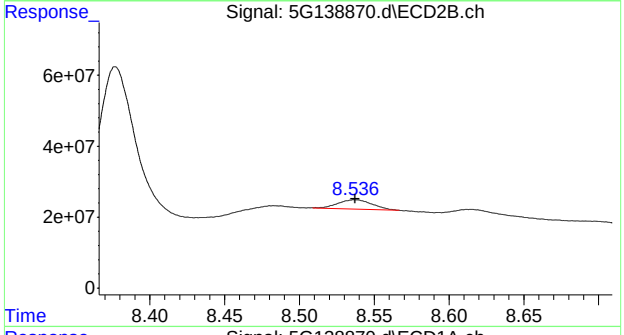
#2 Tetrachloro-m-xylene

R.T.: 5.720 min
Delta R.T.: -0.002 min
Response: 1475684230
Conc: 2.79 PPB m



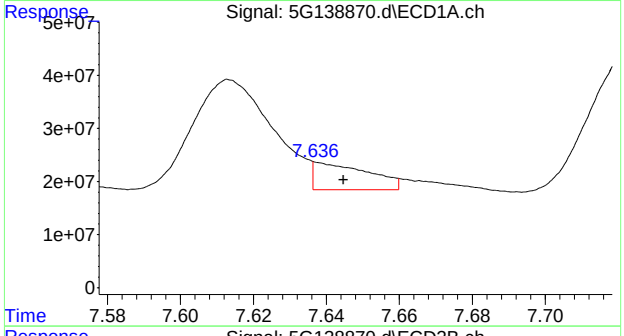
#11 Heptachlor Epoxide

R.T.: 7.480 min
Delta R.T.: -0.006 min
Response: 74403787
Conc: 0.13 PPB m



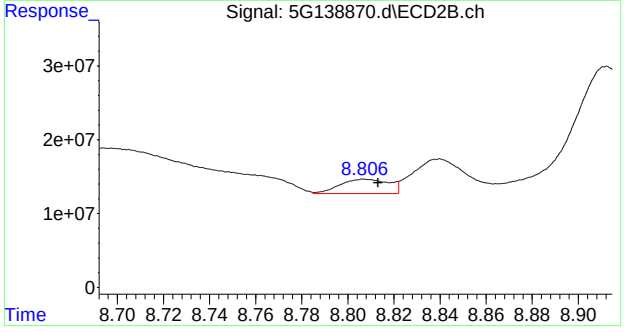
#11 Heptachlor Epoxide

R.T.: 8.536 min
Delta R.T.: -0.001 min
Response: 41835573
Conc: 0.06 PPB m



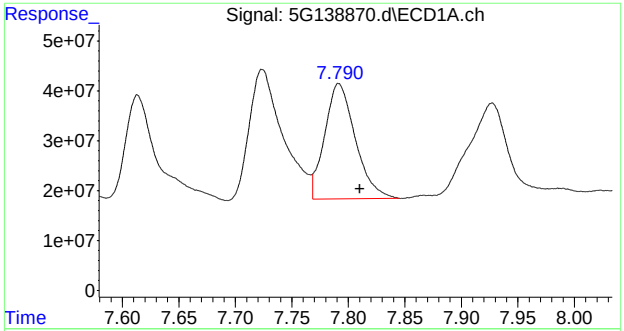
#12 gamma-Chlordane

R.T.: 7.636 min
Delta R.T.: -0.008 min
Response: 50893313
Conc: 0.09 PPB m



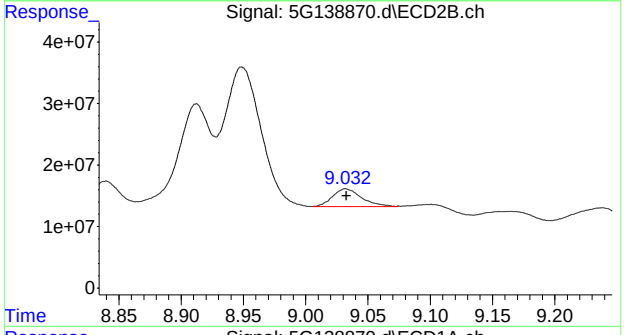
#12 gamma-Chlordane

R.T.: 8.806 min
Delta R.T.: -0.007 min
Response: 28709932
Conc: 0.04 PPB m



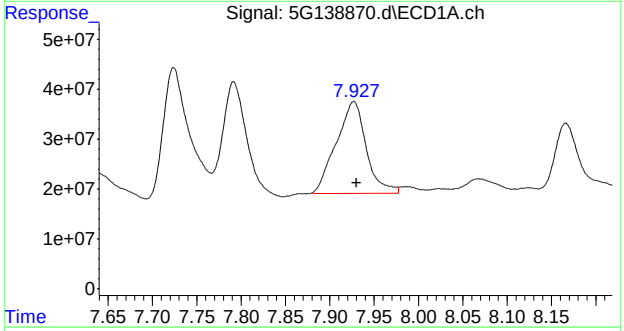
#13 alpha-Chlordane

R.T.: 7.790 min
Delta R.T.: -0.020 min
Response: 434395958
Conc: 0.77 PPB m



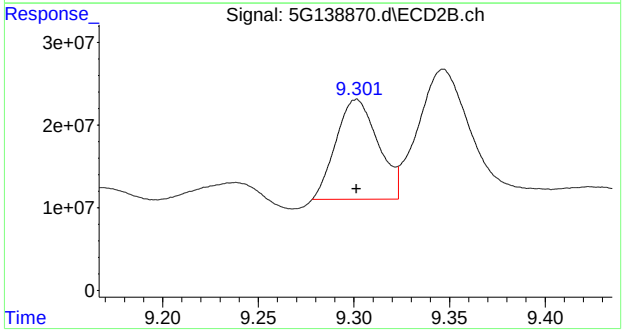
#13 alpha-Chlordane

R.T.: 9.032 min
Delta R.T.: -0.001 min
Response: 47329922
Conc: 0.07 PPB m



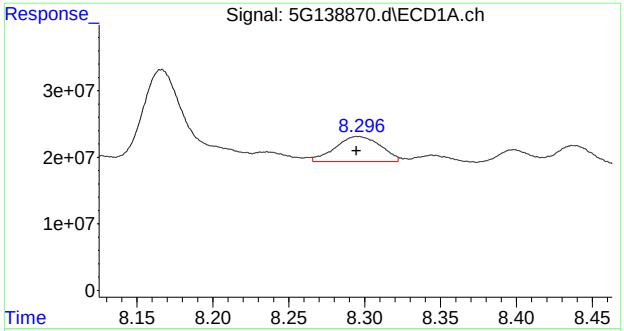
#15 4,4'-DDE

R.T.: 7.927 min
Delta R.T.: -0.003 min
Response: 434921192
Conc: 0.86 PPB m



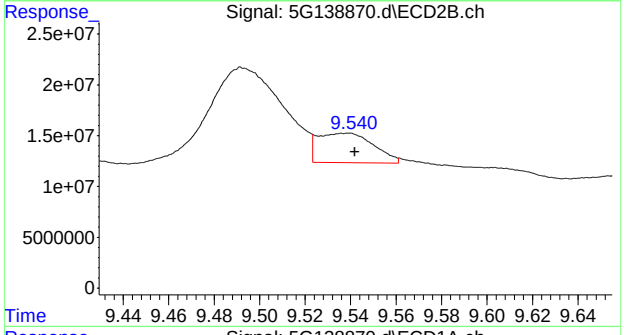
#15 4,4'-DDE

R.T.: 9.301 min
Delta R.T.: 0.000 min
Response: 186277375
Conc: 0.31 PPB m



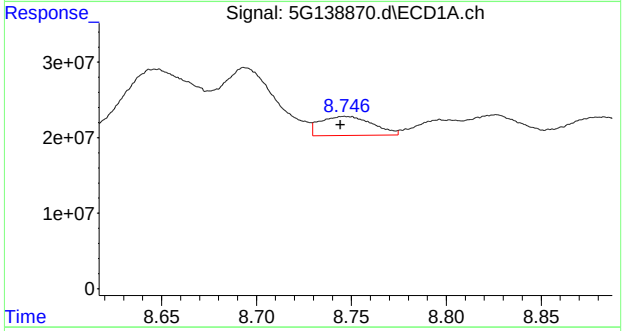
#16 Dieldrin

R.T.: 8.296 min
Delta R.T.: 0.002 min
Response: 78492056
Conc: 0.13 PPB m



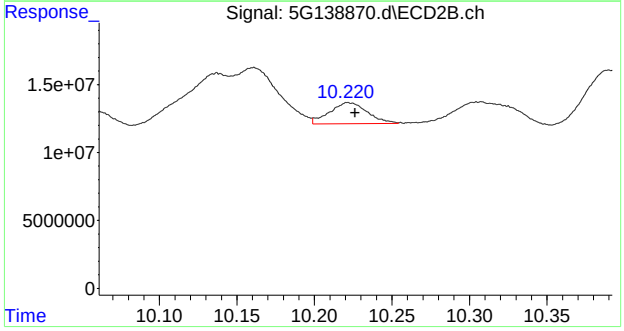
#16 Dieldrin

R.T.: 9.540 min
Delta R.T.: -0.002 min
Response: 48888728
Conc: 0.08 PPB m



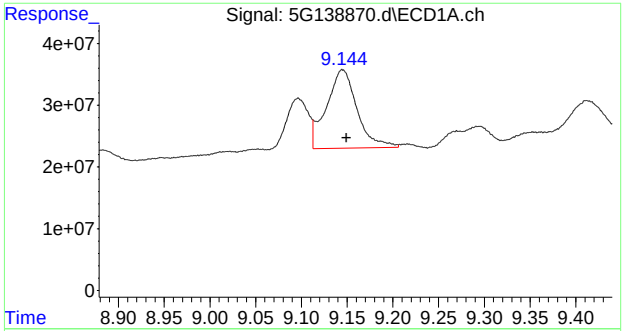
#18 4,4'-DDD

R.T.: 8.746 min
Delta R.T.: 0.002 min
Response: 48100377
Conc: 0.11 PPB m



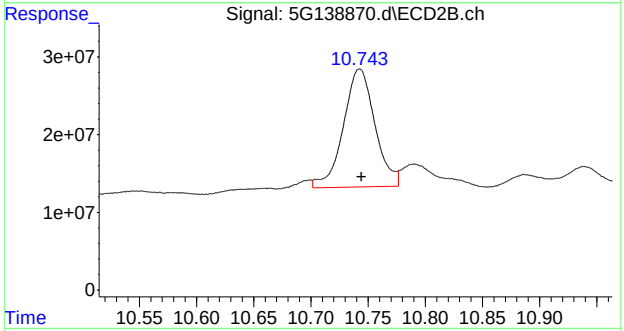
#18 4,4'-DDD

R.T.: 10.220 min
Delta R.T.: -0.006 min
Response: 26251990
Conc: 0.07 PPB m



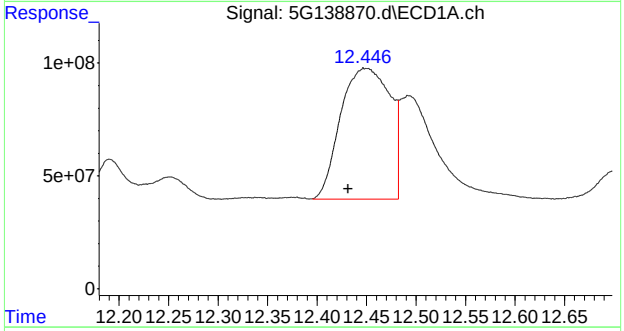
#20 4,4'-DDT

R.T.: 9.144 min
Delta R.T.: -0.005 min
Response: 295333039
Conc: 0.73 PPB m



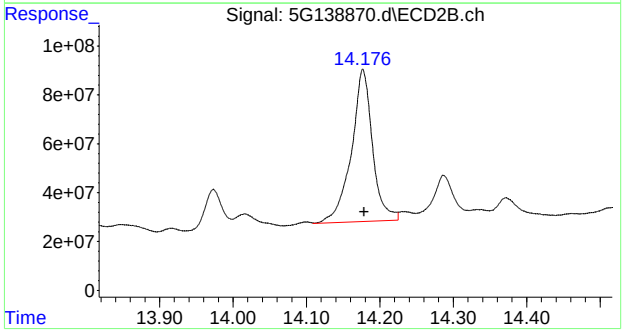
#20 4,4'-DDT

R.T.: 10.743 min
Delta R.T.: -0.002 min
Response: 292503889
Conc: 0.72 PPB m



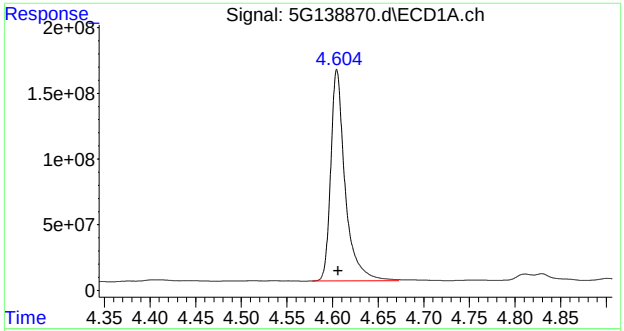
#26 Decachlorobiphenyl

R.T.: 12.446 min
Delta R.T.: 0.015 min
Response: 2031994429
Conc: 3.96 PPB m



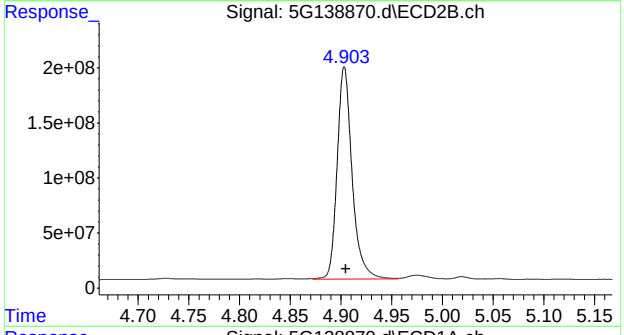
#26 Decachlorobiphenyl

R.T.: 14.176 min
Delta R.T.: -0.003 min
Response: 1247005218
Conc: 3.17 PPB m



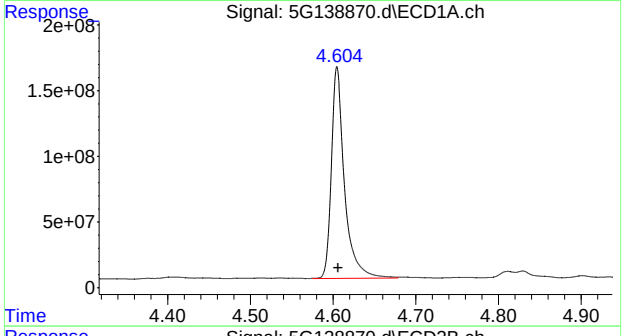
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.604 min
Delta R.T.: -0.002 min
Response: 1764712151
Conc: 5.00 PPB m



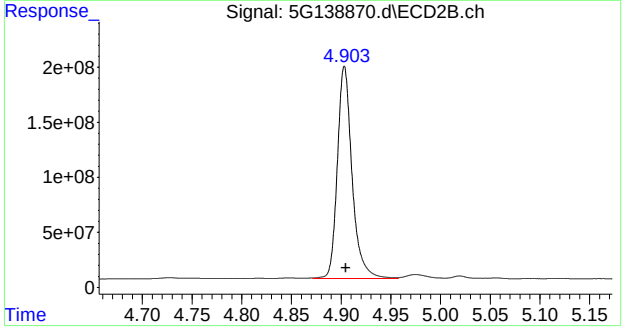
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 1980230207
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.604 min
Delta R.T.: -0.002 min
Response: 1769749888
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 1989498252
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/02/24 13:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\carlos\g5g3661\
Data File : 5G138916.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 10:41 am
Operator : christp
Sample : jd91204-14 m
Misc : op55761,G5G3661,5.2,,,10,1
ALS Vial : 79 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 16:47:34 2024
Quant Method : C:\msdchem\1\data\carlos\g5g3661\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Tue Jul 02 07:23:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.609	4.909	2256.1E6	2259.8E6	5.000m	5.000m
27)	I 1-bromo-2...	4.609	4.909	2262.8E6	2568.3E6	5.000m	5.000
33)	I 1-bromo-2...	4.609	4.909	2252.6E6	2270.7E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.241	5.727	421.4E6	1197.1E6	1.732m	1.985m
	Spiked Amount 40.000	Range 30 - 150		Recovery =		4.33%#	4.96%#
26)	SA Decachlor...	12.473f	14.173	10970.5E6	873.3E6	16.793m	1.944m#
	Spiked Amount 40.000			Recovery =		41.98%	4.86%
	Target Compounds						
5)	MA gamma-BHC	6.001	6.757	28125693	209.1E6	0.038m	0.238m#
11)	B Heptachlo...	7.503f	8.542	390.3E6	776.6E6	0.548m	1.047m#
12)	B gamma-Chl...	7.649	8.814	1234.3E6	1315.7E6	1.620m	1.683m
13)	B alpha-Chl...	7.810	9.038	2286.5E6	1038.8E6	3.175m	1.366m#
15)	B 4,4'-DDE	7.930	9.306	1928.3E6	617.3E6	2.987m	0.891m#
16)	MA Dieldrin	8.303	9.545	1618.6E6	842.7E6	2.133m	1.160 #
18)	A 4,4'-DDD	8.747	10.227	520.7E6	384.9E6	0.929m	0.873
20)	MA 4,4'-DDT	9.152	10.746	1733.3E6	2065.5E6	3.379m	4.474m#
21)	B Endrin Al...	9.529	10.917	449.0E6	174.5E6	0.945m	0.378 #
	SemiQuant Compounds - Not Calibrated on this Instrument						

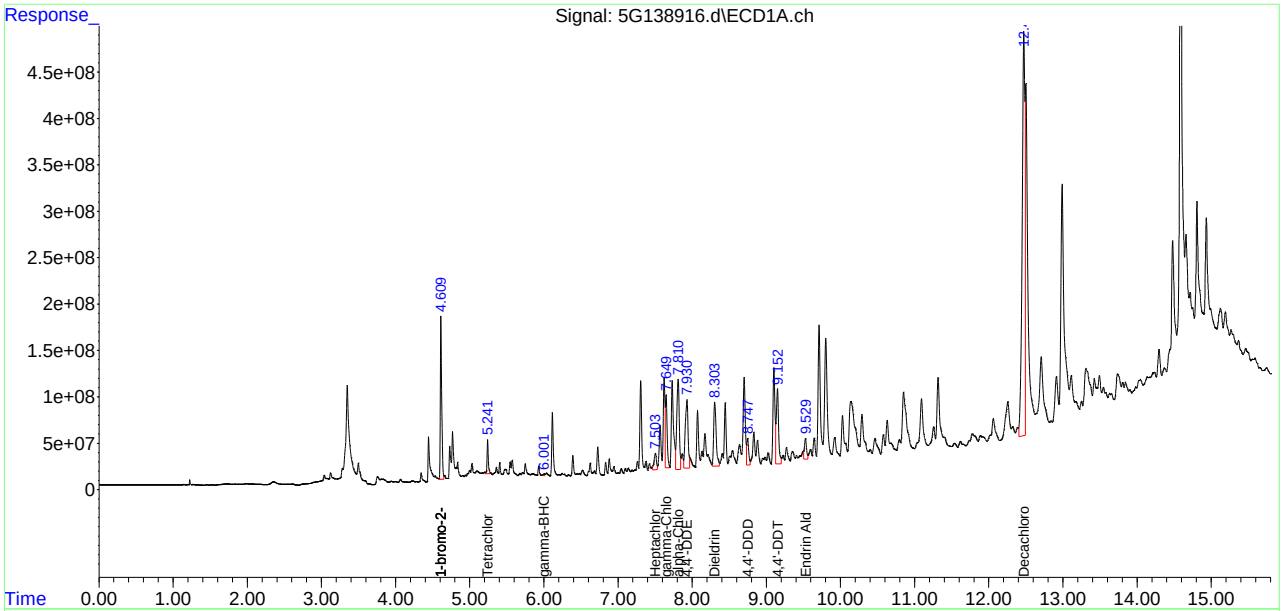
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

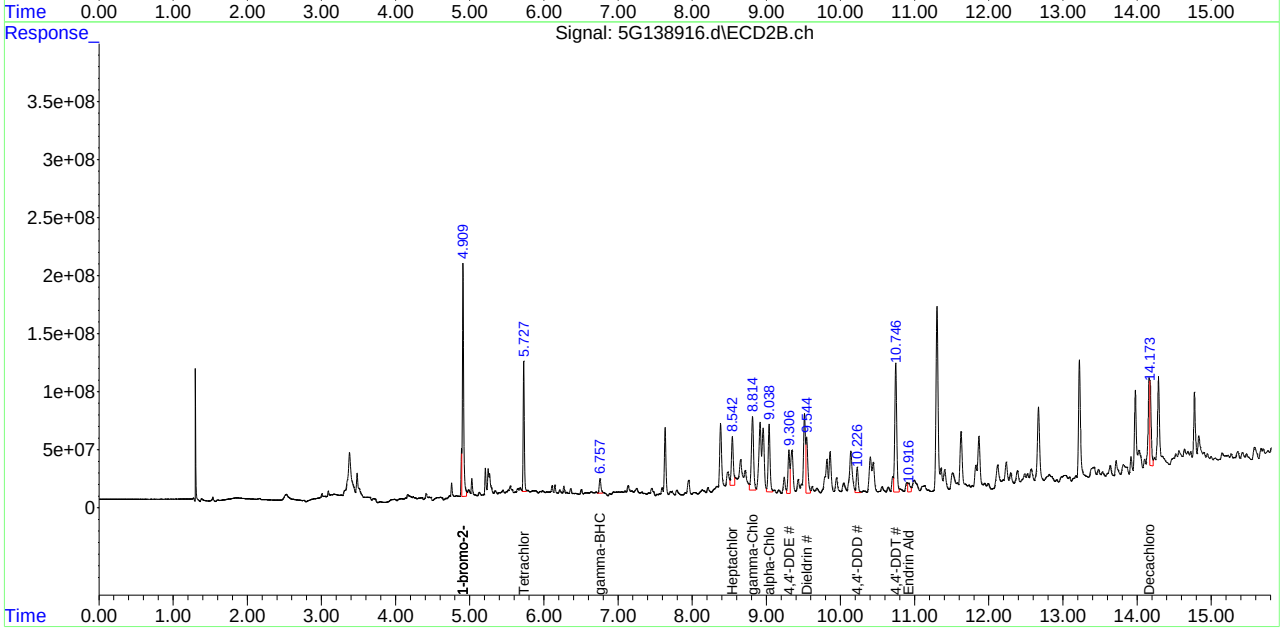
Quantitation Report (QT Reviewed)

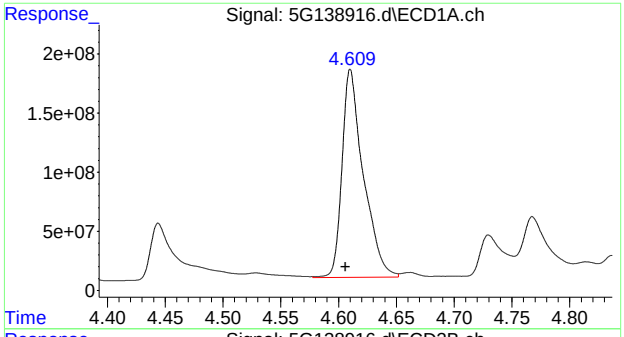
Data Path : C:\msdchem\1\data\carlos\g5g3661\
Data File : 5G138916.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 10:41 am
Operator : christp
Sample : jd91204-14 m
Misc : op55761,G5G3661,5.2,,,10,1
ALS Vial : 79 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 16:47:34 2024
Quant Method : C:\msdchem\1\data\carlos\g5g3661\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Tue Jul 02 07:23:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

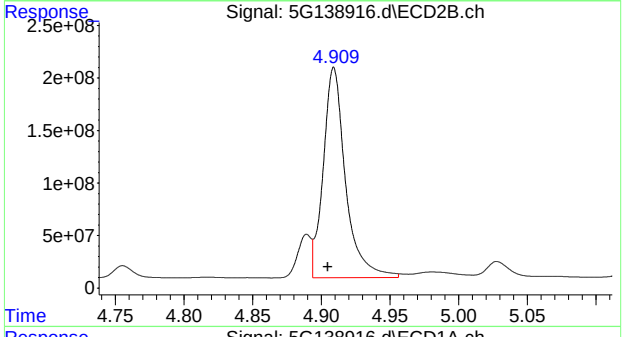






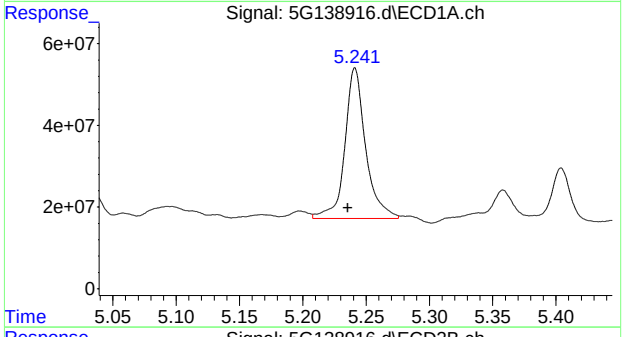
#1 1-bromo-2-nitrobenzene

R.T.: 4.609 min
Delta R.T.: 0.003 min
Response: 2256139286
Conc: 5.00 PPB m



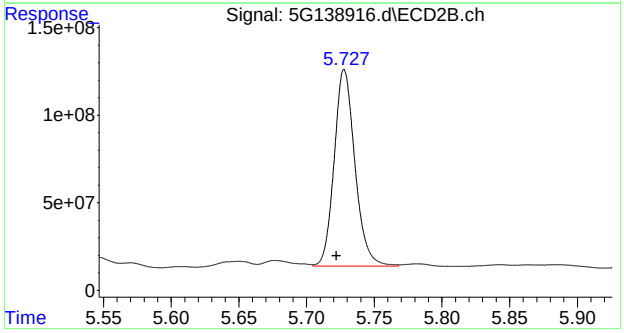
#1 1-bromo-2-nitrobenzene

R.T.: 4.909 min
Delta R.T.: 0.004 min
Response: 2259845449
Conc: 5.00 PPB m



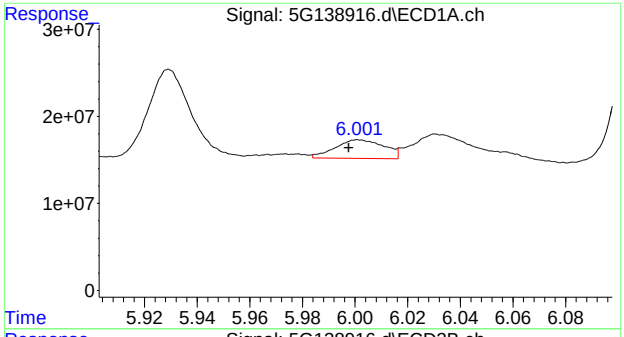
#2 Tetrachloro-m-xylene

R.T.: 5.241 min
Delta R.T.: 0.005 min
Response: 421397452
Conc: 1.73 PPB m



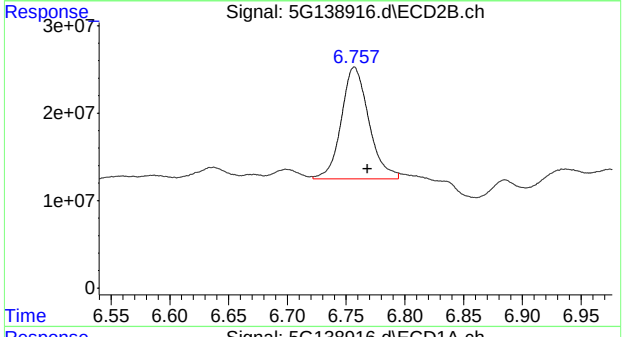
#2 Tetrachloro-m-xylene

R.T.: 5.727 min
Delta R.T.: 0.005 min
Response: 1197149041
Conc: 1.99 PPB m



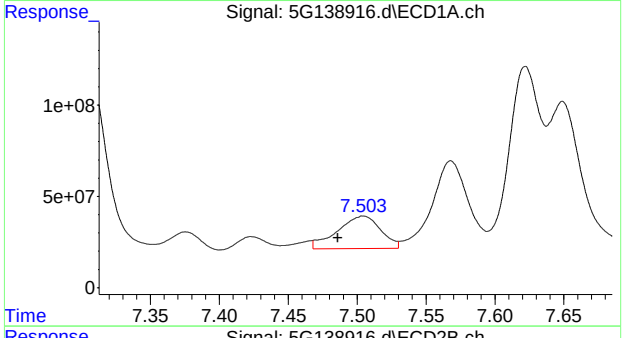
#5 gamma-BHC

R.T.: 6.001 min
Delta R.T.: 0.003 min
Response: 28125693
Conc: 0.04 PPB m



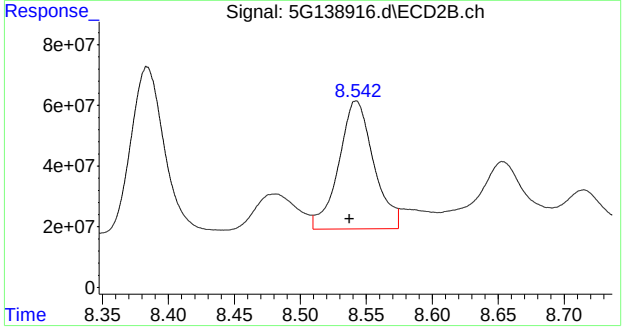
#5 gamma-BHC

R.T.: 6.757 min
Delta R.T.: -0.011 min
Response: 209145172
Conc: 0.24 PPB m



#11 Heptachlor Epoxide

R.T.: 7.503 min
Delta R.T.: 0.017 min
Response: 390303963
Conc: 0.55 PPB m

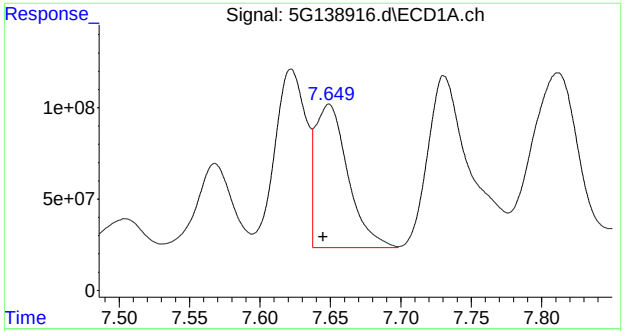


#11 Heptachlor Epoxide

R.T.: 8.542 min
Delta R.T.: 0.005 min
Response: 776593453
Conc: 1.05 PPB m

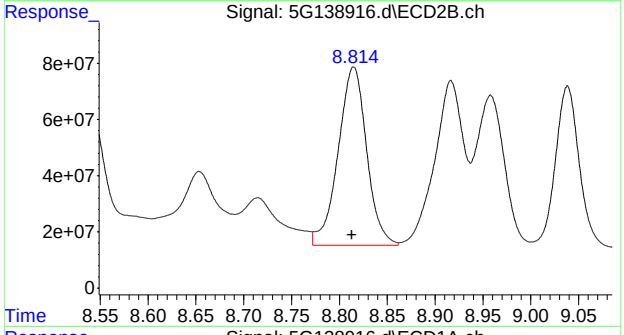
9.1.21

9



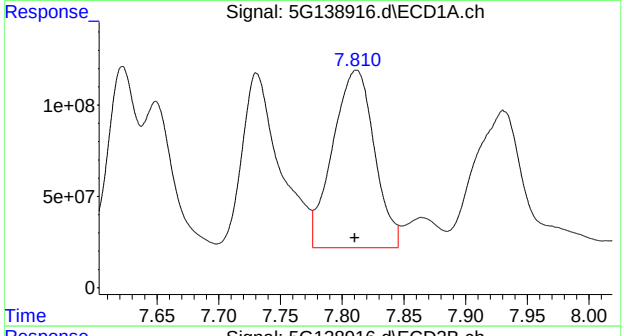
#12 gamma-Chlordane

R.T.: 7.649 min
Delta R.T.: 0.004 min
Response: 1234319472
Conc: 1.62 PPB m



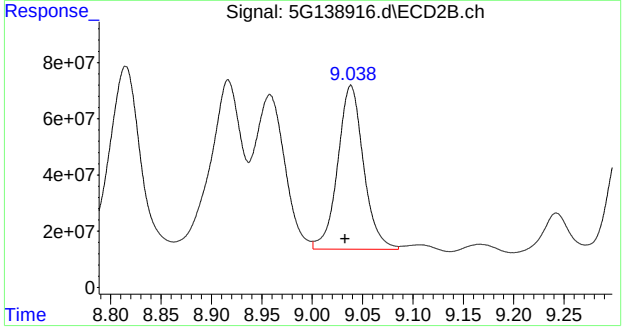
#12 gamma-Chlordane

R.T.: 8.814 min
Delta R.T.: 0.000 min
Response: 1315721892
Conc: 1.68 PPB m



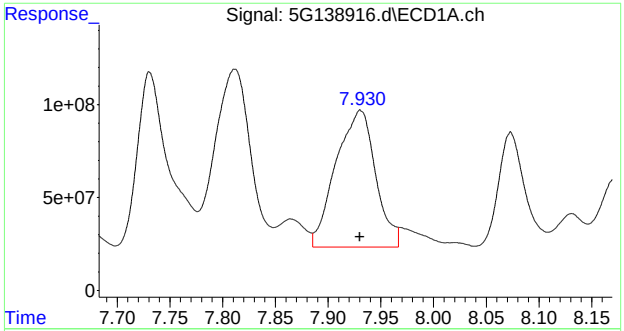
#13 alpha-Chlordane

R.T.: 7.810 min
Delta R.T.: 0.000 min
Response: 2286460052
Conc: 3.18 PPB m



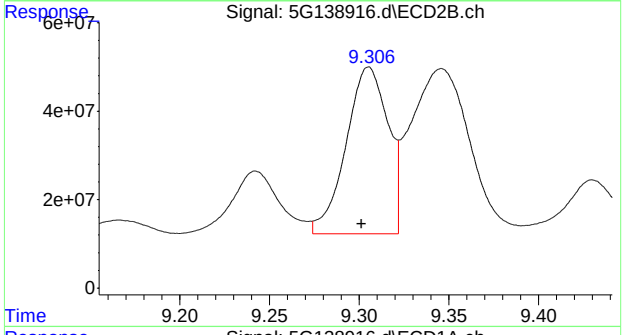
#13 alpha-Chlordane

R.T.: 9.038 min
Delta R.T.: 0.005 min
Response: 1038838382
Conc: 1.37 PPB m



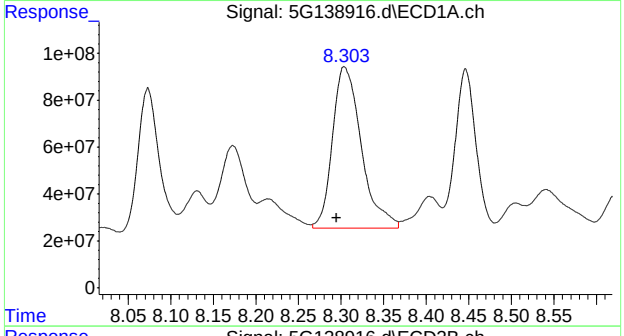
#15 4,4'-DDE

R.T.: 7.930 min
Delta R.T.: 0.000 min
Response: 1928300642
Conc: 2.99 PPB m



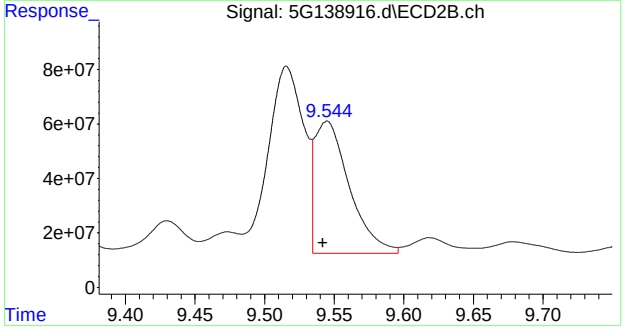
#15 4,4'-DDE

R.T.: 9.306 min
Delta R.T.: 0.004 min
Response: 617277637
Conc: 0.89 PPB m



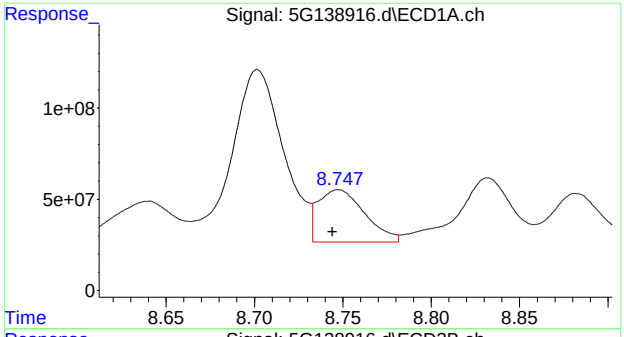
#16 Dieldrin

R.T.: 8.303 min
Delta R.T.: 0.009 min
Response: 1618624450
Conc: 2.13 PPB m



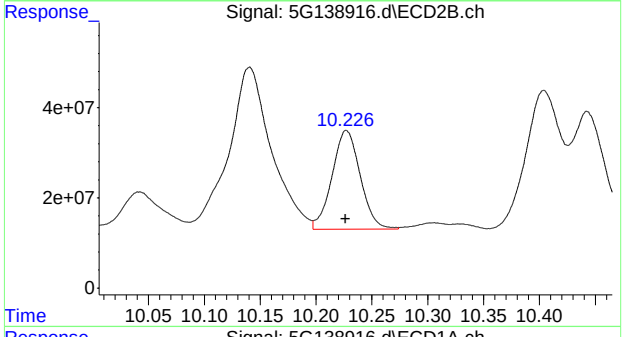
#16 Dieldrin

R.T.: 9.545 min
Delta R.T.: 0.003 min
Response: 842685509
Conc: 1.16 PPB



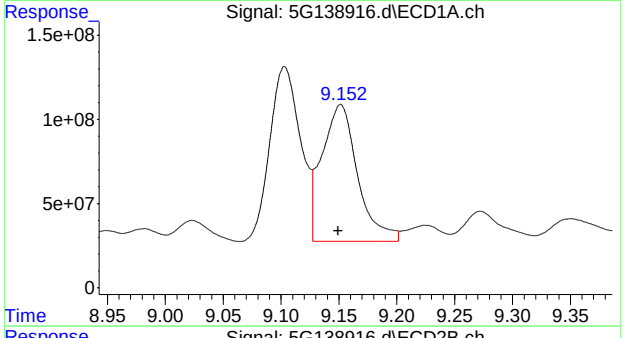
#18 4,4'-DDD

R.T.: 8.747 min
Delta R.T.: 0.003 min
Response: 520696802
Conc: 0.93 PPB m



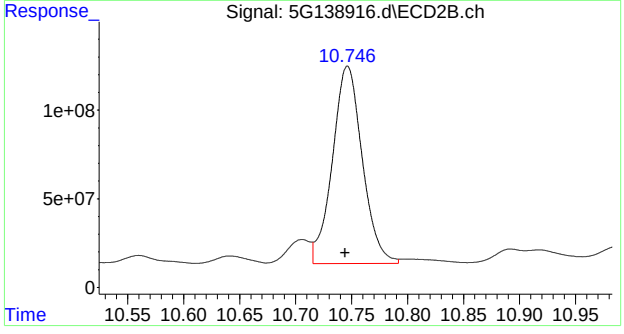
#18 4,4'-DDD

R.T.: 10.227 min
Delta R.T.: 0.000 min
Response: 384901605
Conc: 0.87 PPB



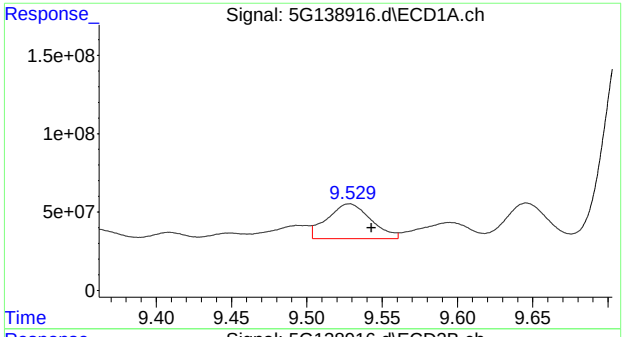
#20 4,4'-DDT

R.T.: 9.152 min
Delta R.T.: 0.003 min
Response: 1733307448
Conc: 3.38 PPB m



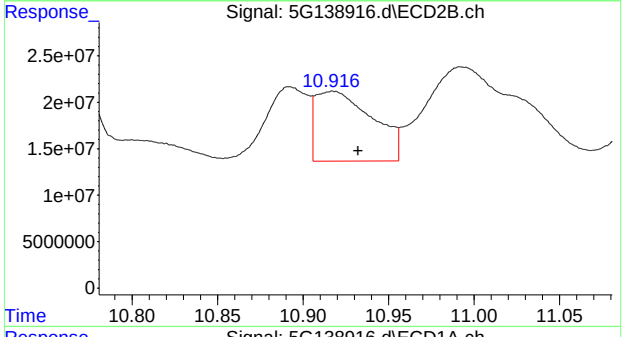
#20 4,4'-DDT

R.T.: 10.746 min
Delta R.T.: 0.002 min
Response: 2065540993
Conc: 4.47 PPB m



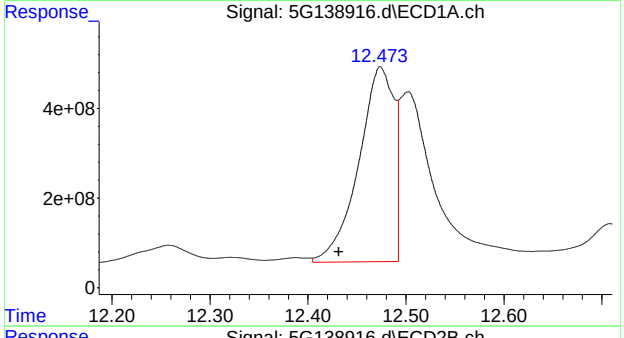
#21 Endrin Aldehyde

R.T.: 9.529 min
Delta R.T.: -0.014 min
Response: 449048066
Conc: 0.95 PPB m



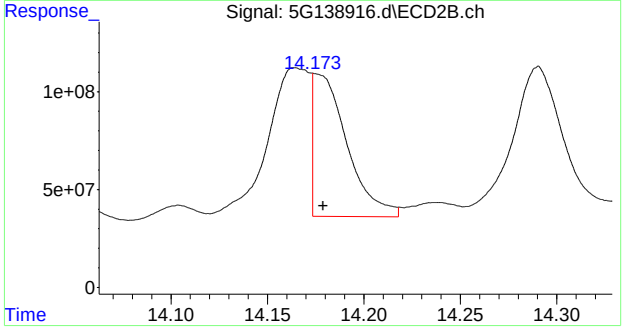
#21 Endrin Aldehyde

R.T.: 10.917 min
Delta R.T.: -0.015 min
Response: 174528334
Conc: 0.38 PPB



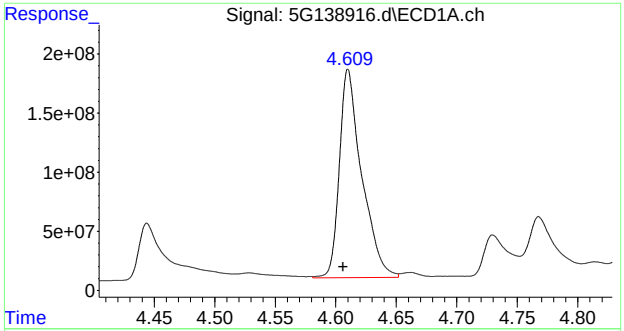
#26 Decachlorobiphenyl

R.T.: 12.473 min
Delta R.T.: 0.042 min
Response: 10970500933
Conc: 16.79 PPB m



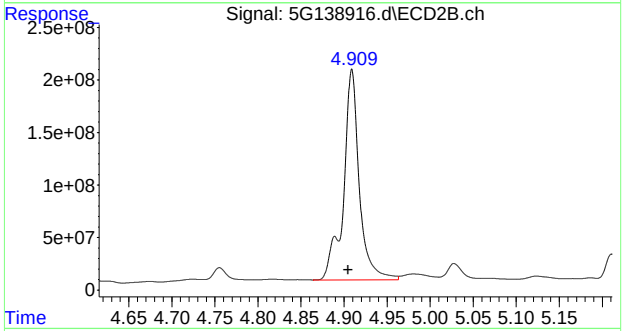
#26 Decachlorobiphenyl

R.T.: 14.173 min
Delta R.T.: -0.005 min
Response: 873319929
Conc: 1.94 PPB m



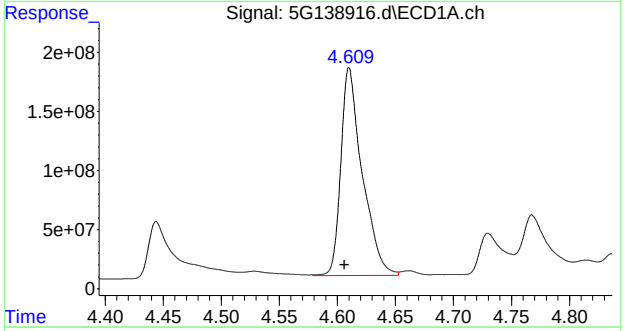
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.609 min
Delta R.T.: 0.003 min
Response: 2262842919
Conc: 5.00 PPB m



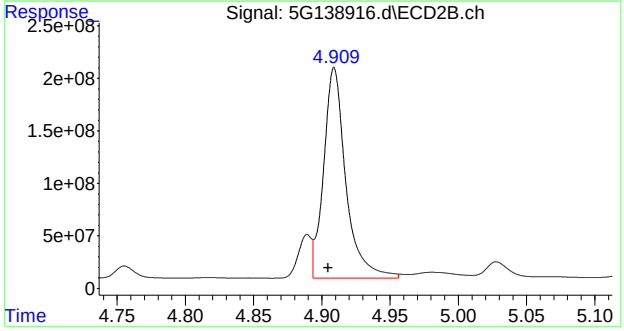
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.909 min
Delta R.T.: 0.005 min
Response: 2568328401
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.609 min
Delta R.T.: 0.003 min
Response: 2252561442
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.909 min
Delta R.T.: 0.004 min
Response: 2270723997
Conc: 5.00 PPB m

9.1.21

9

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
07/01/24 09:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\g5g3659\
Data File : 5G138872.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 7:07 am
Operator : christp
Sample : jd91204-15 m
Misc : op55761,G5G3659,5.1,,,10,1
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 12:26:52 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	4.605	4.903	1769.9E6	2037.5E6	5.000m	5.000m
27) I	1-bromo-2...	4.605	4.903	1770.1E6	2042.7E6	5.000m	5.000m
33) I	1-bromo-2...	4.605	4.903	1770.5E6	2042.5E6	5.000m	5.000m
	System Monitoring Compounds						
2) SAB	Tetrachlo...	5.235	5.721	435.1E6	1562.9E6	2.280m	2.875m#
	Spiked Amount	40.000	Range 30 - 150	Recovery	=	5.70%#	7.19%#
26) SA	Decachlor...	12.431	14.178	1150.7E6	922.0E6	2.246m	2.276m
	Spiked Amount	40.000		Recovery	=	5.62%	5.69%
	Target Compounds						
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

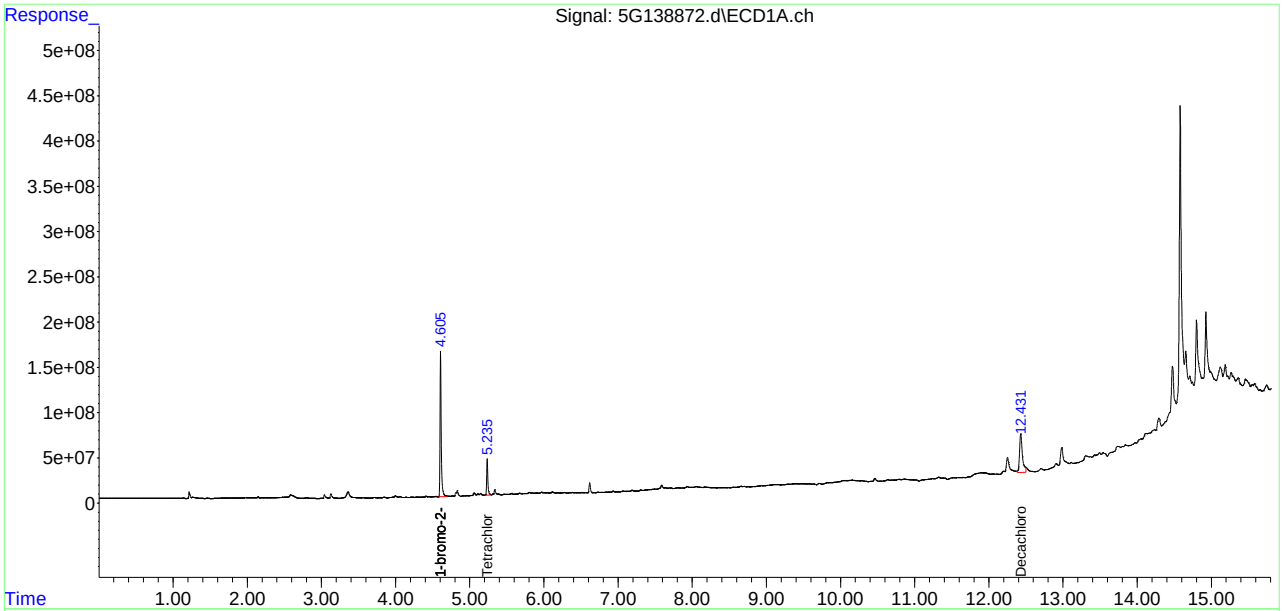
9.1.22
9

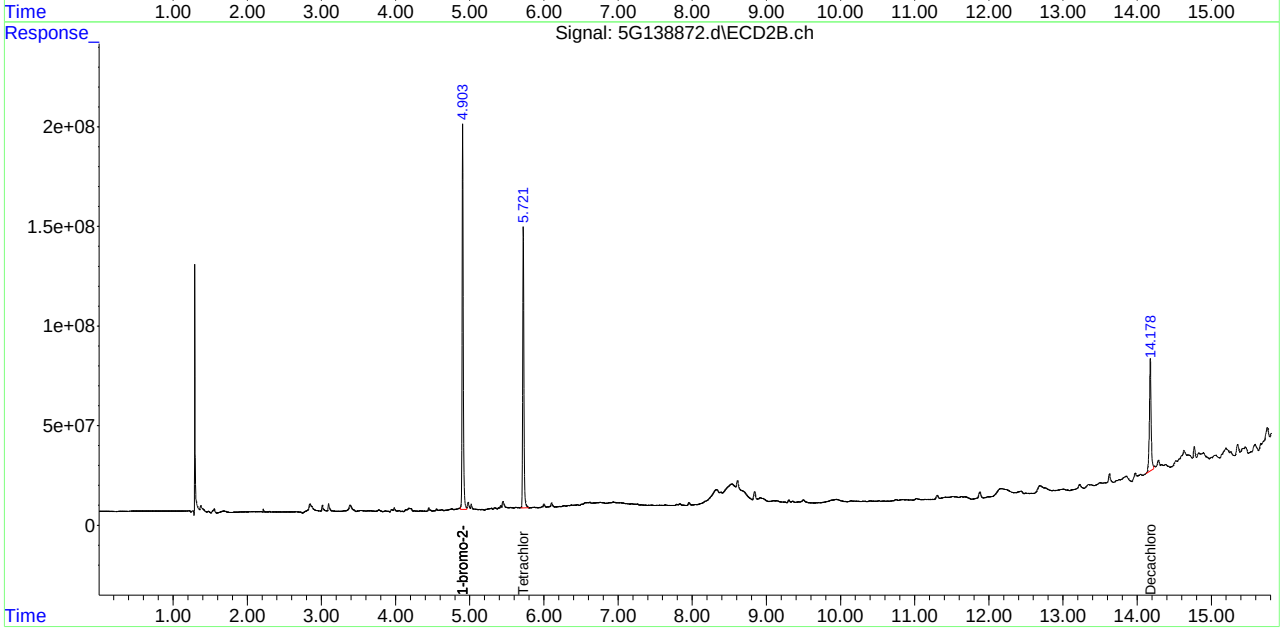
Quantitation Report (QT Reviewed)

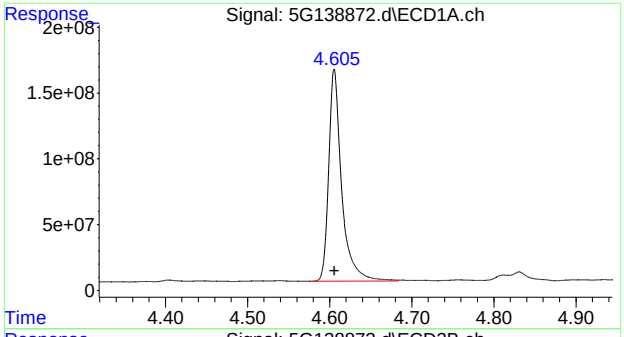
Data Path : C:\msdchem\1\data\laylanie\g5g3659\
Data File : 5G138872.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 7:07 am
Operator : christp
Sample : jd91204-15 m
Misc : op55761,G5G3659,5.1,,,10,1
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 12:26:52 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

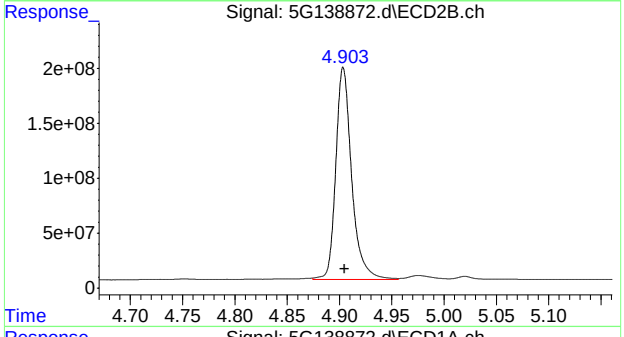






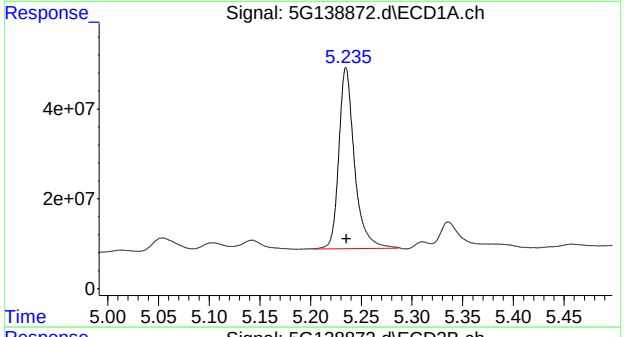
#1 1-bromo-2-nitrobenzene

R.T.: 4.605 min
Delta R.T.: 0.000 min
Response: 1769884696
Conc: 5.00 PPB m



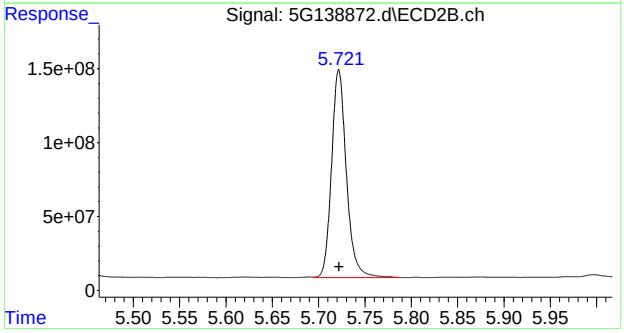
#1 1-bromo-2-nitrobenzene

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 2037450682
Conc: 5.00 PPB m



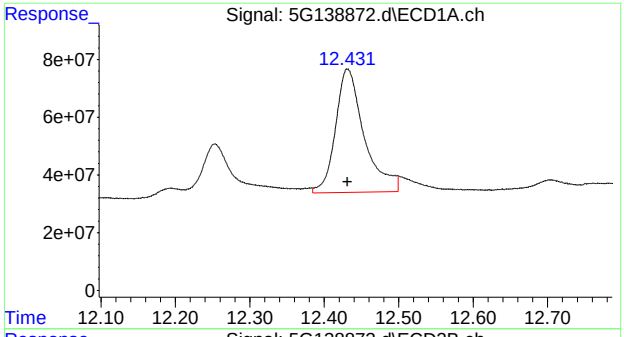
#2 Tetrachloro-m-xylene

R.T.: 5.235 min
Delta R.T.: 0.000 min
Response: 435089691
Conc: 2.28 PPB m



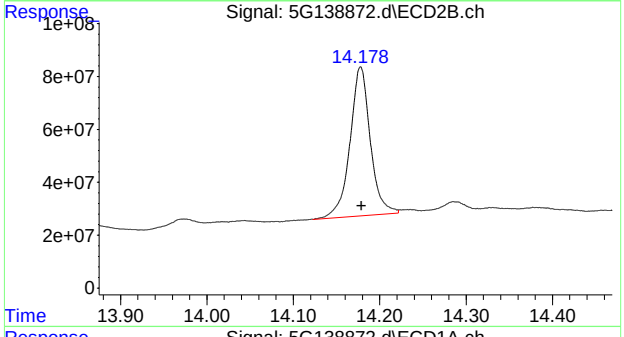
#2 Tetrachloro-m-xylene

R.T.: 5.721 min
Delta R.T.: 0.000 min
Response: 1562902952
Conc: 2.87 PPB m



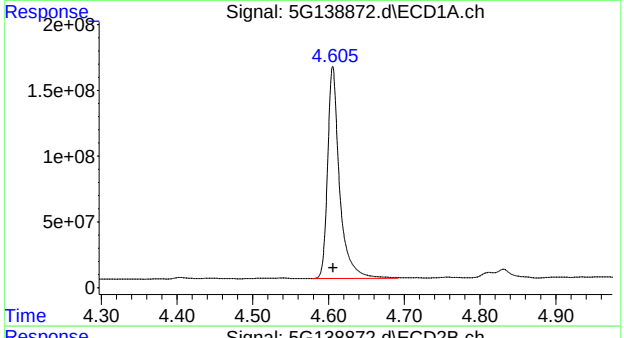
#26 Decachlorobiphenyl

R.T.: 12.431 min
Delta R.T.: 0.000 min
Response: 1150749742
Conc: 2.25 PPB m



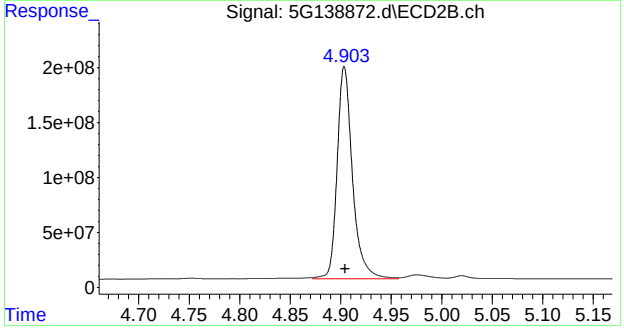
#26 Decachlorobiphenyl

R.T.: 14.178 min
Delta R.T.: -0.001 min
Response: 922049780
Conc: 2.28 PPB m



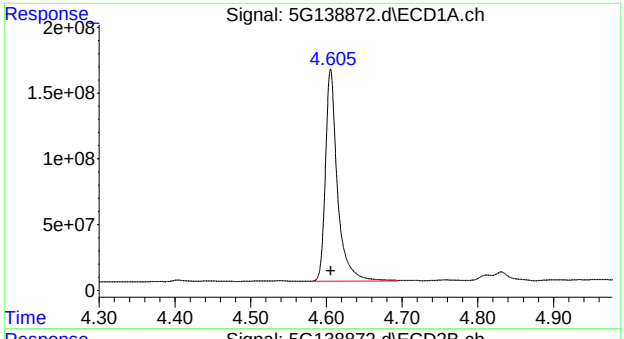
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.605 min
Delta R.T.: 0.000 min
Response: 1770093973
Conc: 5.00 PPB m



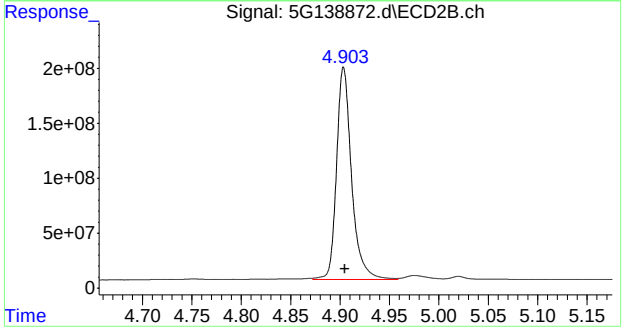
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 2042740253
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.605 min
Delta R.T.: 0.000 min
Response: 1770472331
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 2042486220
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 09:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g5g3659\
Data File : 5G138873.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 7:28 am
Operator : christp
Sample : jd91204-16 m
Misc : op55761,G5G3659,5.4,,,10,1
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 09:33:50 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.606	4.903	2234.0E6	2001.3E6	5.000m	5.000m
27)	I 1-bromo-2...	4.606	4.903	2243.3E6	2000.2E6	5.000m	5.000m
33)	I 1-bromo-2...	4.606	4.903	2241.0E6	2000.5E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.234	5.721	396.8E6	1217.2E6	1.647m	2.279m#
	Spiked Amount 40.000	Range 30 - 150		Recovery =		4.12%#	5.70%#
26)	SA Decachlor...	12.466f	14.161f	7127.0E6	1790.6E6	11.018m	4.499m#
	Spiked Amount 40.000			Recovery =		27.55%	11.25%
	Target Compounds						
11)	B Heptachlo...	7.491	8.539	126.5E6	72141532	0.179m	0.110m#
12)	B gamma-Chl...	7.632	8.840f	442.0E6	4244.5E6	0.586m	6.131m#
13)	B alpha-Chl...	7.804	9.033	568.4E6	301.6E6	0.797m	0.448m#
15)	B 4,4'-DDE	7.924	9.301	1059.7E6	324.6E6	1.658m	0.529m#
16)	MA Dieldrin	8.293	9.527	93019124	44050795	0.124m	0.068m#
18)	A 4,4'-DDD	8.743	10.222	137.9E6	100.6E6	0.248m	0.258m
20)	MA 4,4'-DDT	9.145	10.741	335.4E6	315.0E6	0.660m	0.770m

SemiQuant Compounds - Not Calibrated on this Instrument

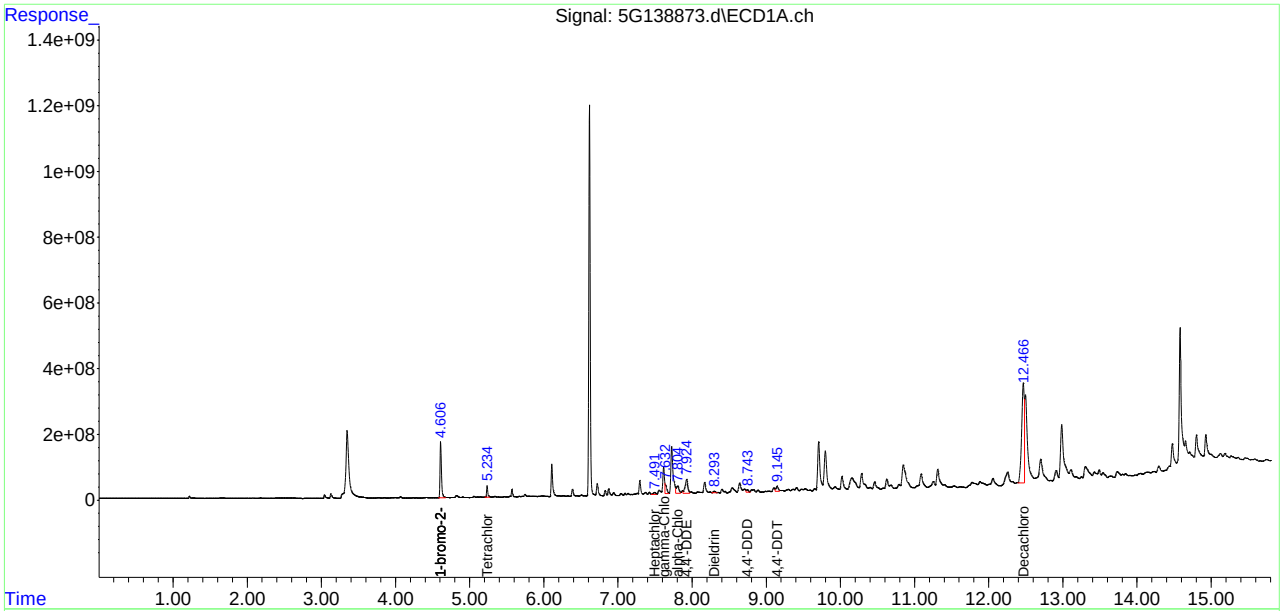
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

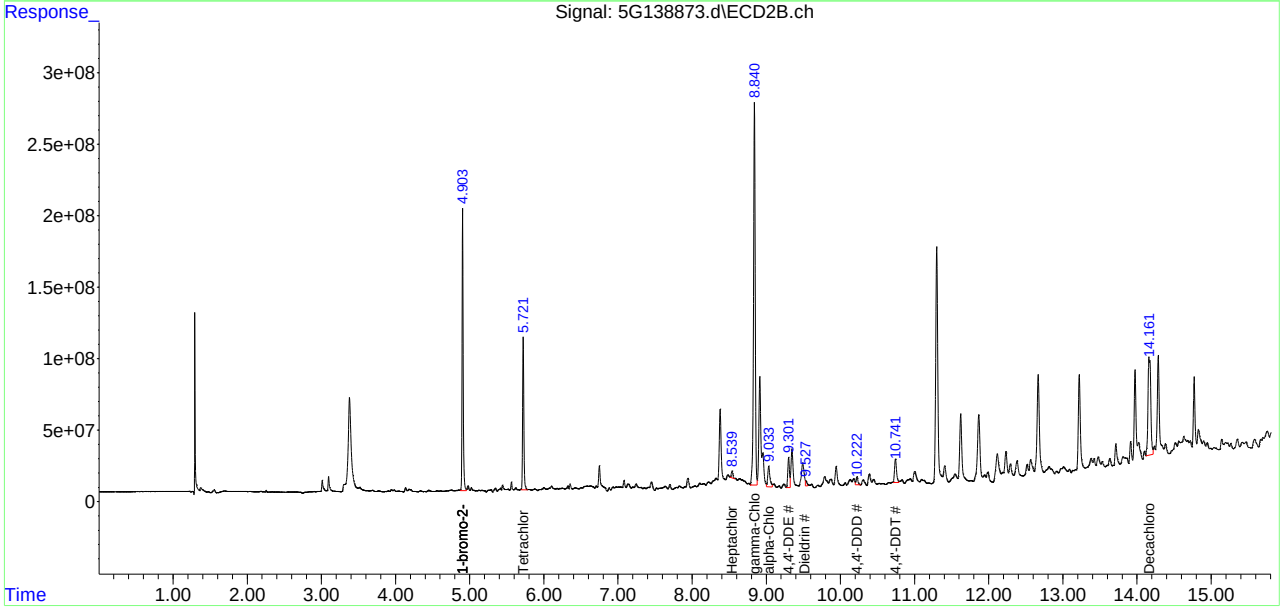
Quantitation Report (QT Reviewed)

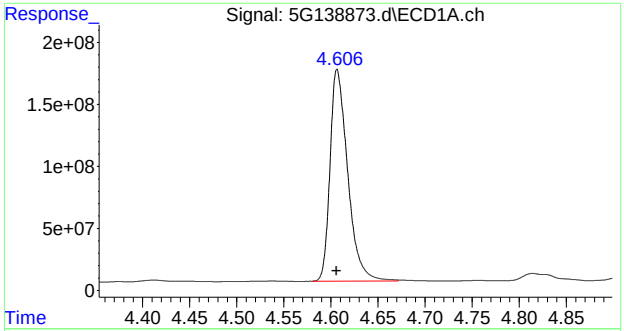
Data Path : C:\msdchem\1\data\g5g3659\
Data File : 5G138873.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 7:28 am
Operator : christp
Sample : jd91204-16 m
Misc : op55761,G5G3659,5.4,,,10,1
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 09:33:50 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

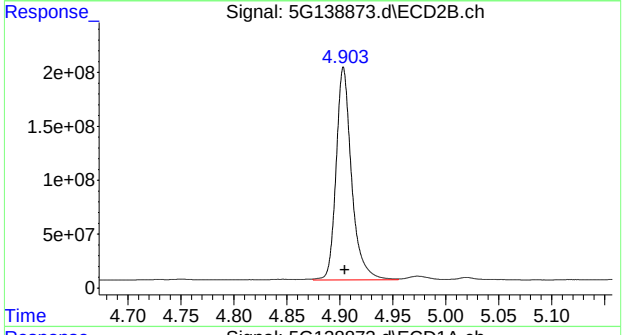






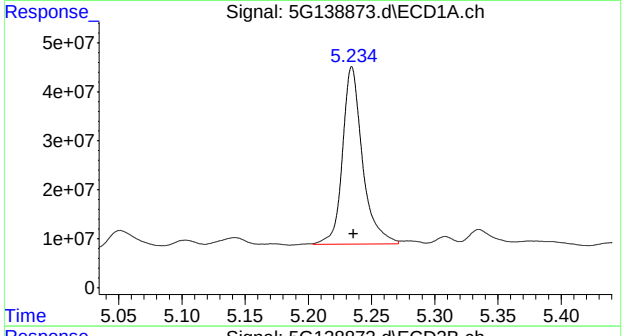
#1 1-bromo-2-nitrobenzene

R.T.: 4.606 min
Delta R.T.: 0.000 min
Response: 2233984351
Conc: 5.00 PPB m



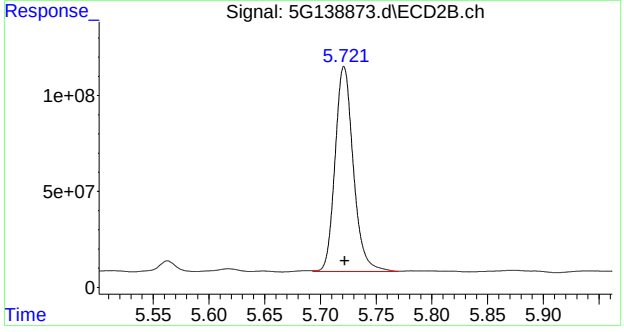
#1 1-bromo-2-nitrobenzene

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 2001345480
Conc: 5.00 PPB m



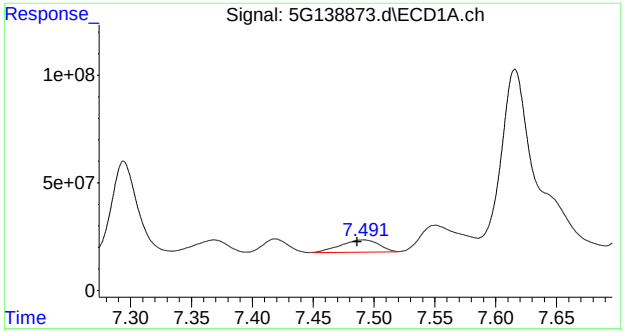
#2 Tetrachloro-m-xylene

R.T.: 5.234 min
Delta R.T.: -0.001 min
Response: 396792057
Conc: 1.65 PPB m



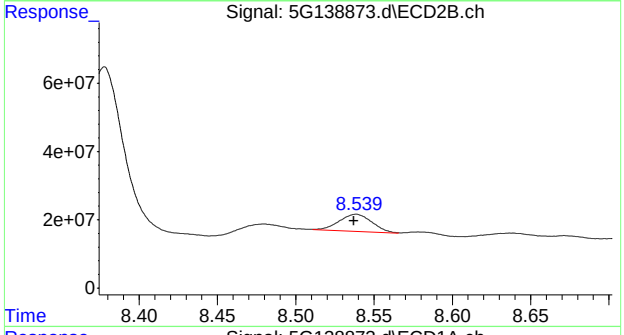
#2 Tetrachloro-m-xylene

R.T.: 5.721 min
Delta R.T.: -0.001 min
Response: 1217235797
Conc: 2.28 PPB m



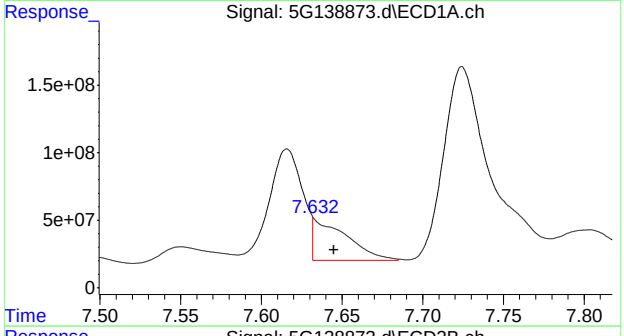
#11 Heptachlor Epoxide

R.T.: 7.491 min
Delta R.T.: 0.005 min
Response: 126482555
Conc: 0.18 PPB m



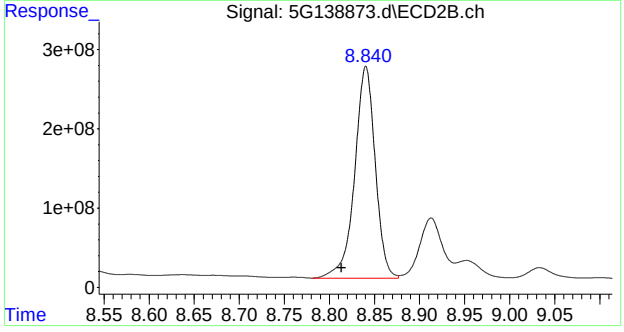
#11 Heptachlor Epoxide

R.T.: 8.539 min
Delta R.T.: 0.002 min
Response: 72141532
Conc: 0.11 PPB m



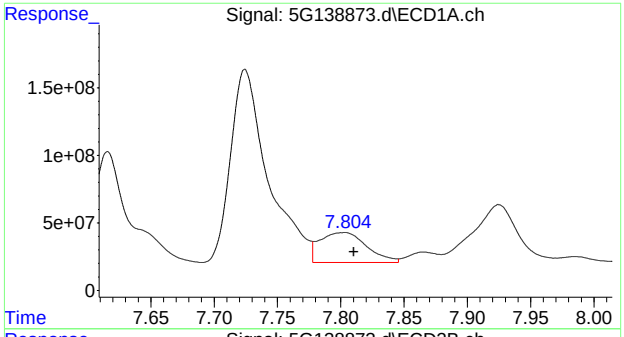
#12 gamma-Chlordane

R.T.: 7.632 min
Delta R.T.: -0.013 min
Response: 442009933
Conc: 0.59 PPB m



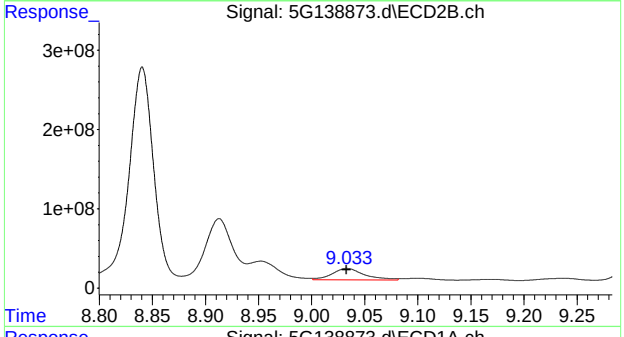
#12 gamma-Chlordane

R.T.: 8.840 min
Delta R.T.: 0.027 min
Response: 4244504722
Conc: 6.13 PPB m



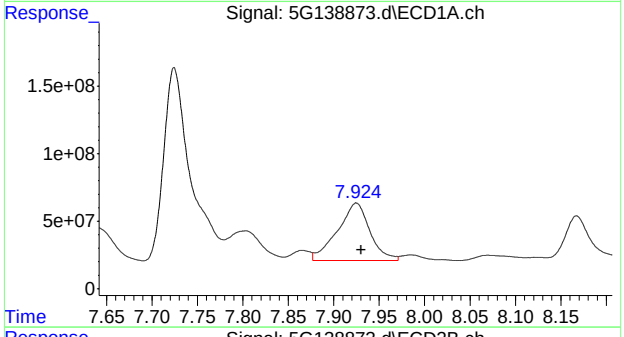
#13 alpha-Chlordane

R.T.: 7.804 min
Delta R.T.: -0.006 min
Response: 568375214
Conc: 0.80 PPB m



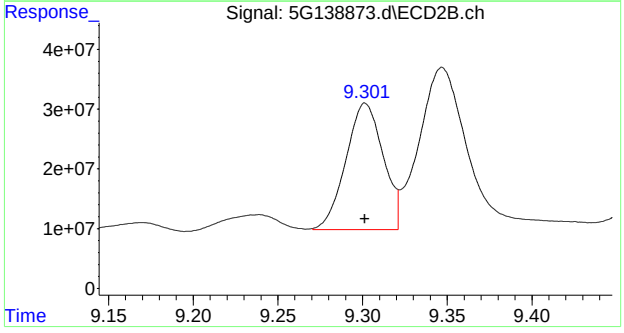
#13 alpha-Chlordane

R.T.: 9.033 min
Delta R.T.: 0.000 min
Response: 301633544
Conc: 0.45 PPB m



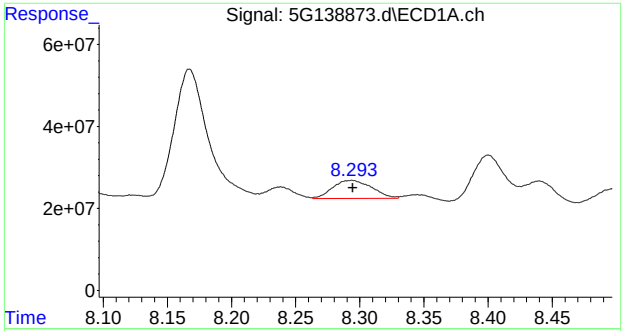
#15 4,4'-DDE

R.T.: 7.924 min
Delta R.T.: -0.006 min
Response: 1059730660
Conc: 1.66 PPB m



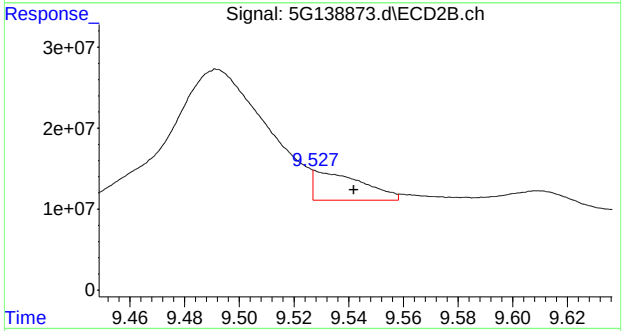
#15 4,4'-DDE

R.T.: 9.301 min
Delta R.T.: 0.000 min
Response: 324560405
Conc: 0.53 PPB m



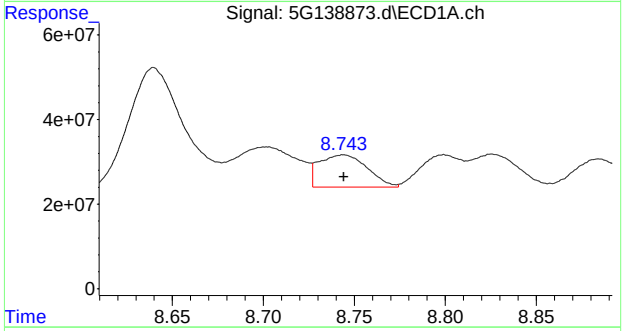
#16 Dieldrin

R.T.: 8.293 min
Delta R.T.: -0.001 min
Response: 93019124
Conc: 0.12 PPB m



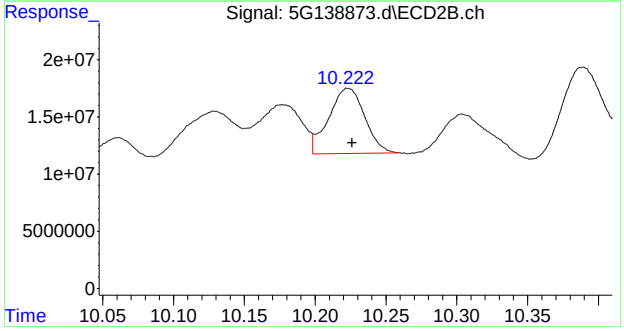
#16 Dieldrin

R.T.: 9.527 min
Delta R.T.: -0.015 min
Response: 44050795
Conc: 0.07 PPB m



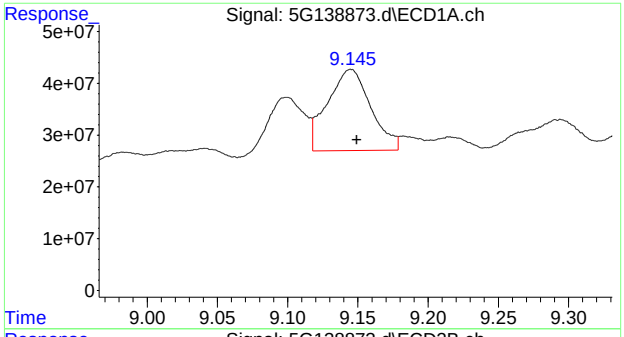
#18 4,4'-DDD

R.T.: 8.743 min
Delta R.T.: -0.001 min
Response: 137895748
Conc: 0.25 PPB m



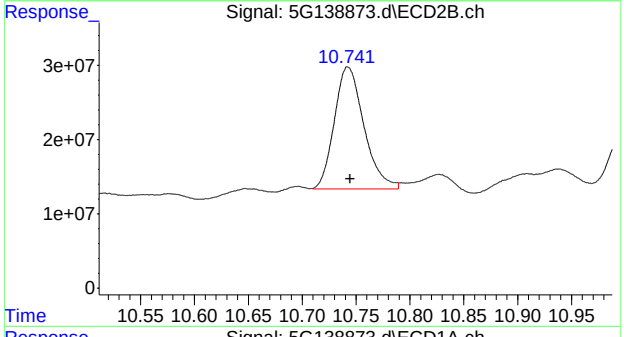
#18 4,4'-DDD

R.T.: 10.222 min
Delta R.T.: -0.005 min
Response: 100615767
Conc: 0.26 PPB m



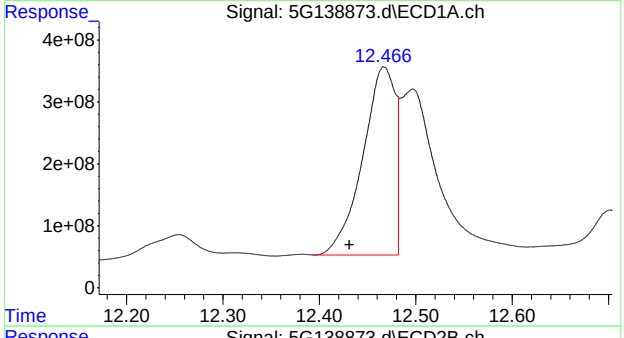
#20 4,4'-DDT

R.T.: 9.145 min
Delta R.T.: -0.005 min
Response: 335418408
Conc: 0.66 PPB m



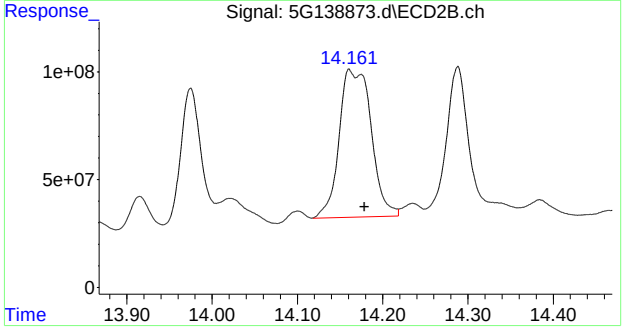
#20 4,4'-DDT

R.T.: 10.741 min
Delta R.T.: -0.003 min
Response: 314971805
Conc: 0.77 PPB m



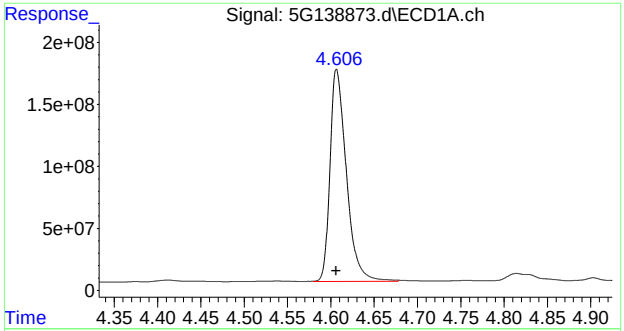
#26 Decachlorobiphenyl

R.T.: 12.466 min
Delta R.T.: 0.035 min
Response: 7126991378
Conc: 11.02 PPB m



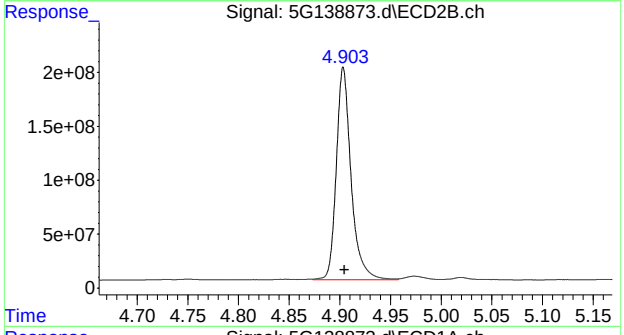
#26 Decachlorobiphenyl

R.T.: 14.161 min
Delta R.T.: -0.018 min
Response: 1790565723
Conc: 4.50 PPB m



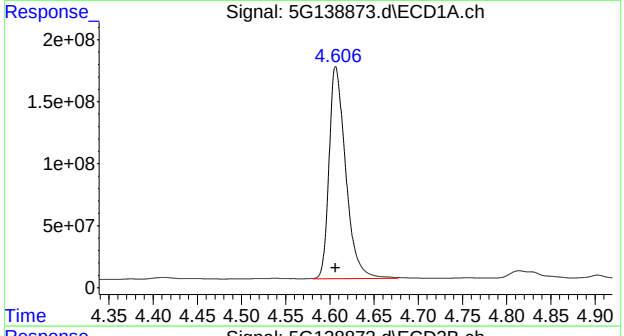
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.606 min
Delta R.T.: 0.000 min
Response: 2243324673
Conc: 5.00 PPB m



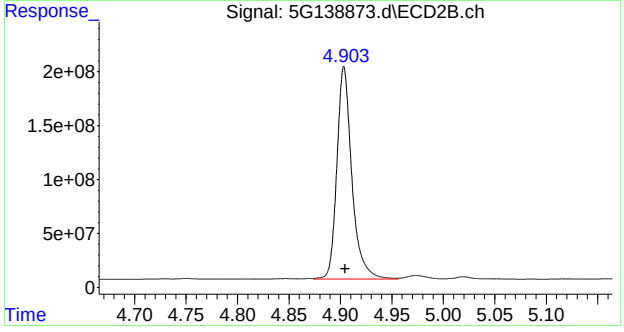
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 2000231217
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.606 min
Delta R.T.: 0.000 min
Response: 2240960393
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.903 min
Delta R.T.: -0.002 min
Response: 2000456037
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 09:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\g5g3659\
Data File : 5G138874.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 7:49 am
Operator : christp
Sample : jd91204-17 m
Misc : op55761,G5G3659,5.2,,,10,1
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 12:37:10 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.605	4.904	1754.3E6	2076.8E6	5.000m	5.000m
27)	I 1-bromo-2...	4.605	4.904	1753.1E6	2083.3E6	5.000m	5.000m
33)	I 1-bromo-2...	4.605	4.904	1750.6E6	2081.3E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.235	5.722	435.8E6	1608.1E6	2.304m	2.902m#
	Spiked Amount 40.000	Range 30 - 150		Recovery =		5.76%#	7.26%#
26)	SA Decachlor...	12.431	14.179	1139.0E6	944.9E6	2.242m	2.288m
	Spiked Amount 40.000			Recovery =		5.61%	5.72%
	Target Compounds						
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

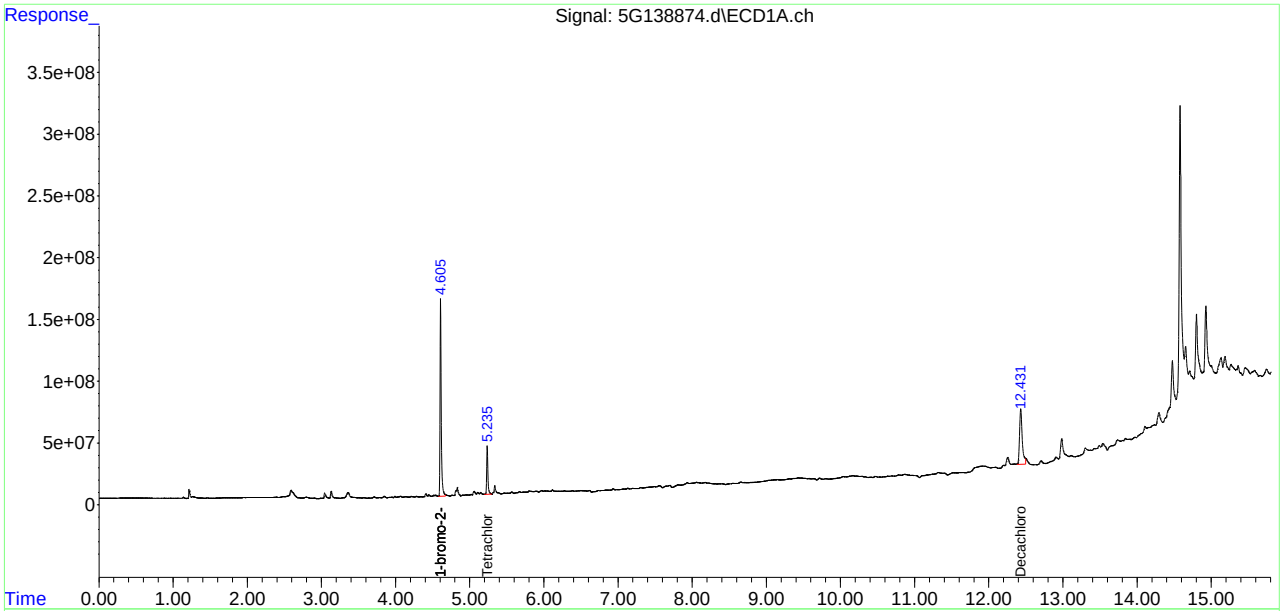
9.1.24
9

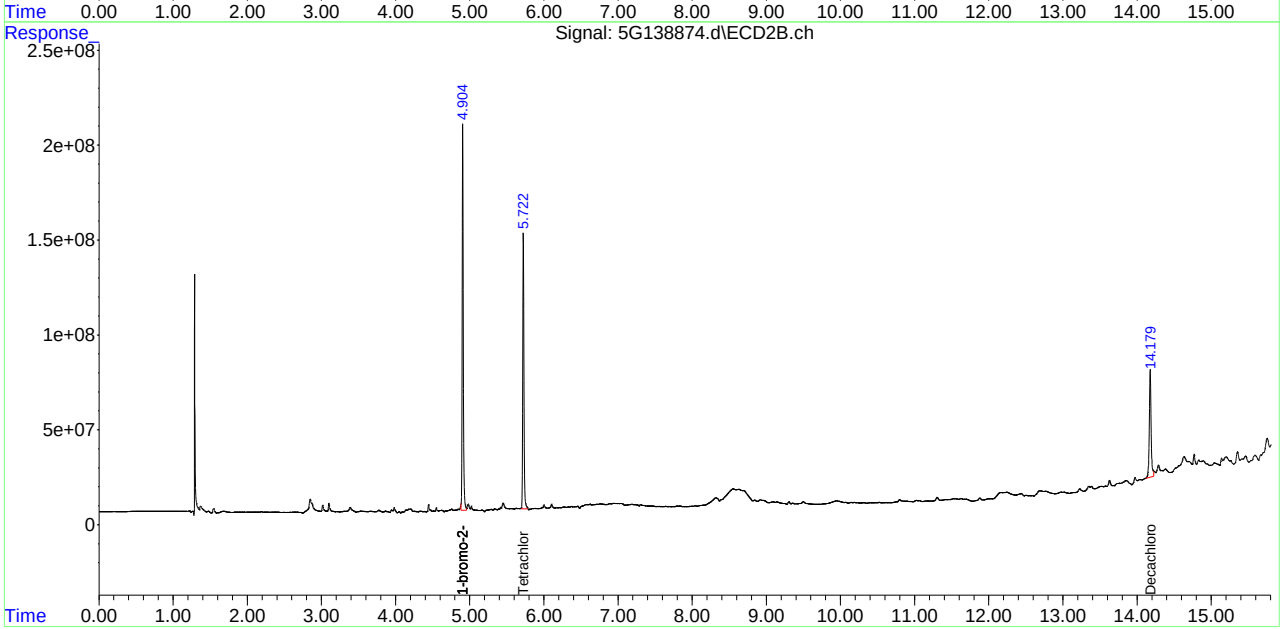
Quantitation Report (QT Reviewed)

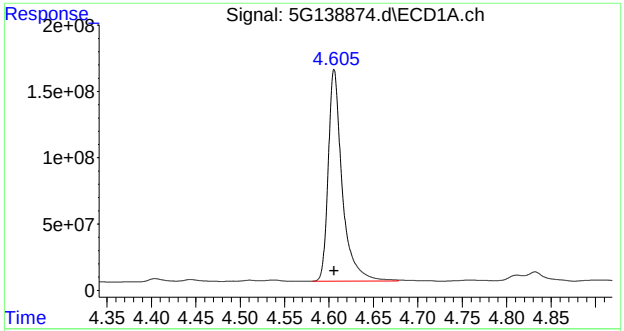
Data Path : C:\msdchem\1\data\laylanie\g5g3659\
Data File : 5G138874.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 7:49 am
Operator : christp
Sample : jd91204-17 m
Misc : op55761,G5G3659,5.2,,,10,1
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 12:37:10 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

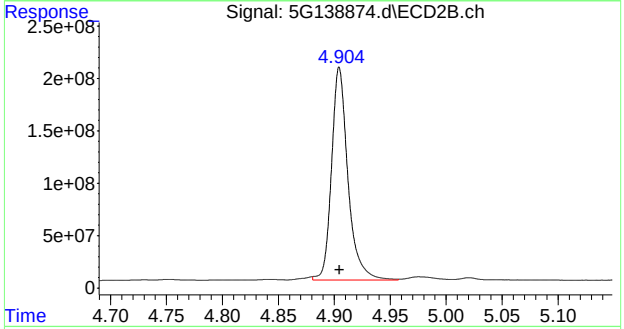






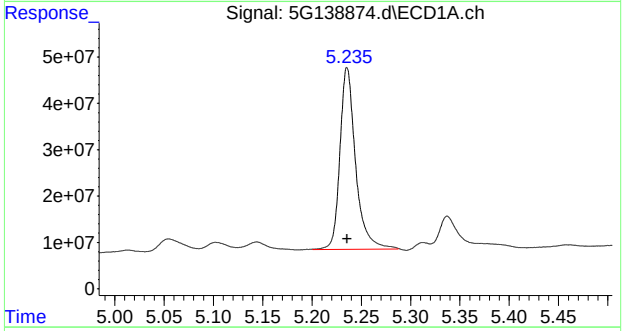
#1 1-bromo-2-nitrobenzene

R.T.: 4.605 min
Delta R.T.: 0.000 min
Response: 1754269341
Conc: 5.00 PPB m



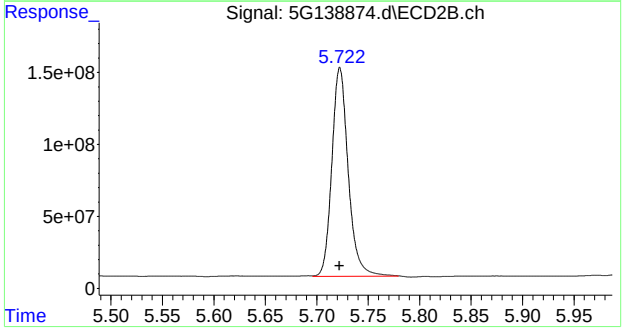
#1 1-bromo-2-nitrobenzene

R.T.: 4.904 min
Delta R.T.: 0.000 min
Response: 2076849990
Conc: 5.00 PPB m



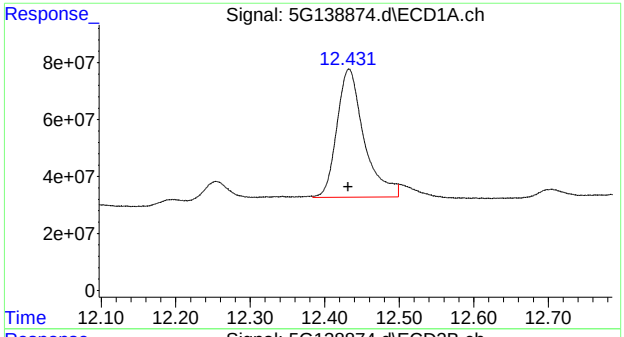
#2 Tetrachloro-m-xylene

R.T.: 5.235 min
Delta R.T.: 0.000 min
Response: 435775886
Conc: 2.30 PPB m



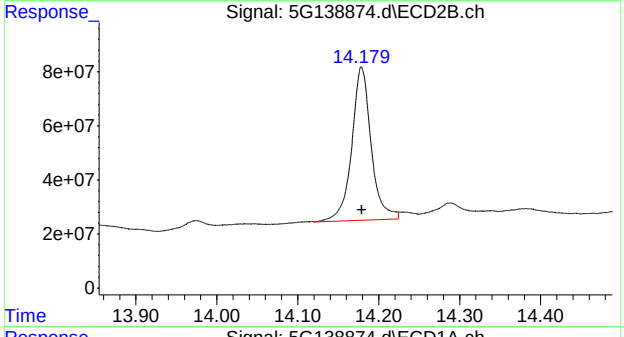
#2 Tetrachloro-m-xylene

R.T.: 5.722 min
Delta R.T.: 0.000 min
Response: 1608069852
Conc: 2.90 PPB m



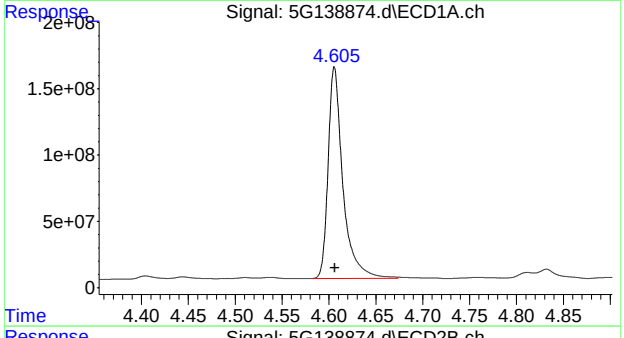
#26 Decachlorobiphenyl

R.T.: 12.431 min
Delta R.T.: 0.000 min
Response: 1138957677
Conc: 2.24 PPB m



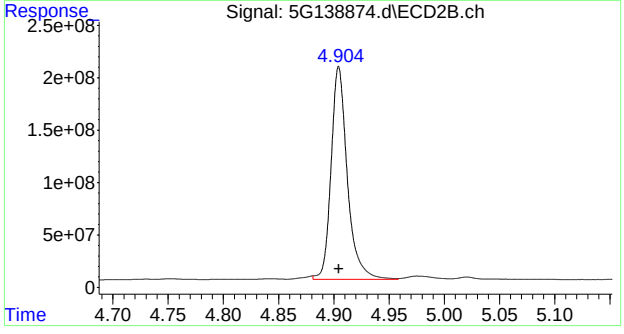
#26 Decachlorobiphenyl

R.T.: 14.179 min
Delta R.T.: 0.000 min
Response: 944907005
Conc: 2.29 PPB m



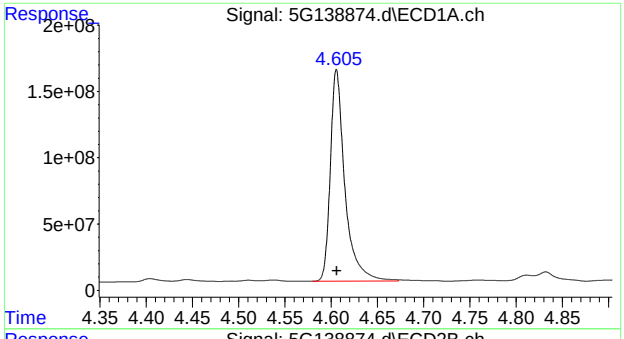
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.605 min
Delta R.T.: 0.000 min
Response: 1753142051
Conc: 5.00 PPB m



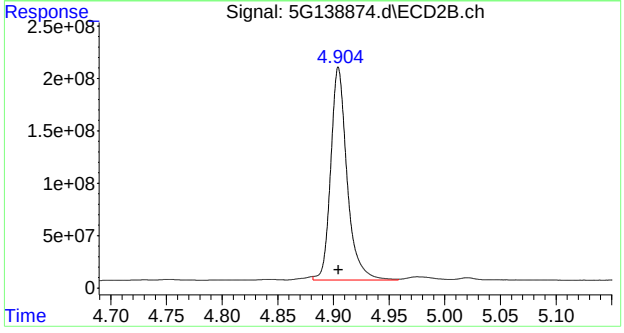
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.904 min
Delta R.T.: 0.000 min
Response: 2083330284
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.605 min
Delta R.T.: 0.000 min
Response: 1750625218
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.904 min
Delta R.T.: 0.000 min
Response: 2081253538
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
07/01/24 11:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17976.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 03:11 am
Operator : christp
Sample : jd91204-1 m
Misc : op55762,grl399,5.2,,,10,1
ALS Vial : 55 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 08:29:46 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1)	S Tetrachlo...	3.914	4.320	682.7E6	599.1E6	3.132m	3.979m#
	Spiked Amount 40.000			Recovery	=	7.83%	9.95%
51)	S Decachlor...	9.803	10.709	466.8E6	414.8E6	3.179m	3.701m
	Spiked Amount 40.000			Recovery	=	7.95%	9.25%
	Target Compounds						
48)	AR1260-C	8.205	9.225	37213615	80111181	4.050m	9.687m#
49)	AR1260-D	8.540	9.444	81486007	142.1E6	3.735m	7.592m#
50)	AR1260-E	8.825	9.766	115.8E6	97761325	5.185m	5.613m

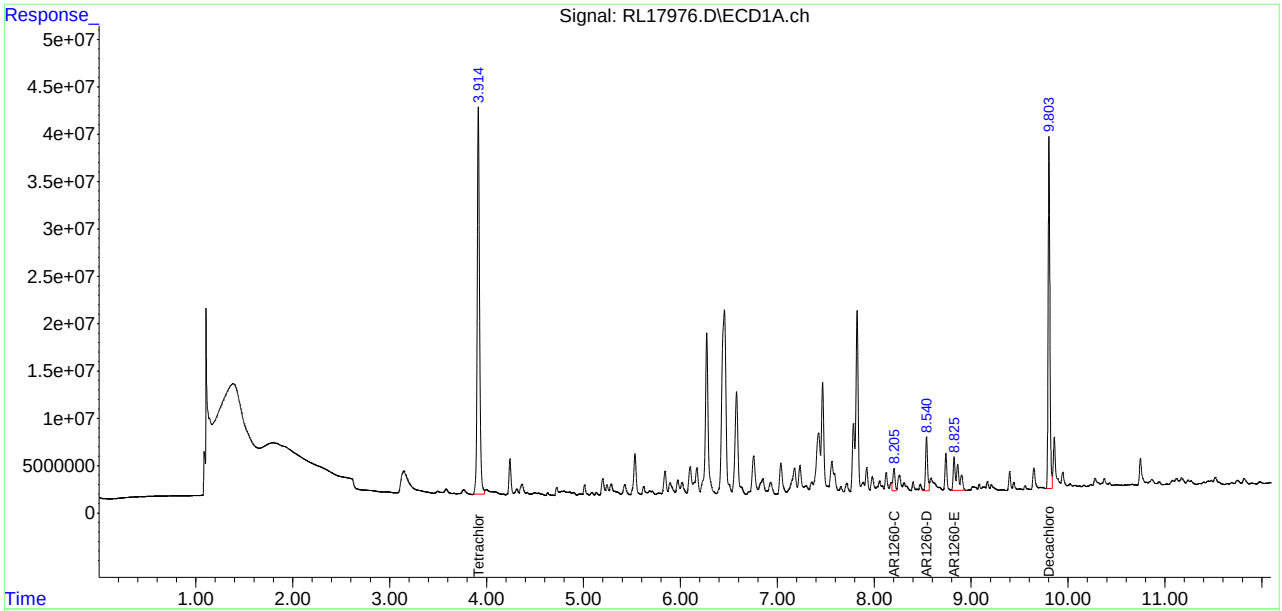
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

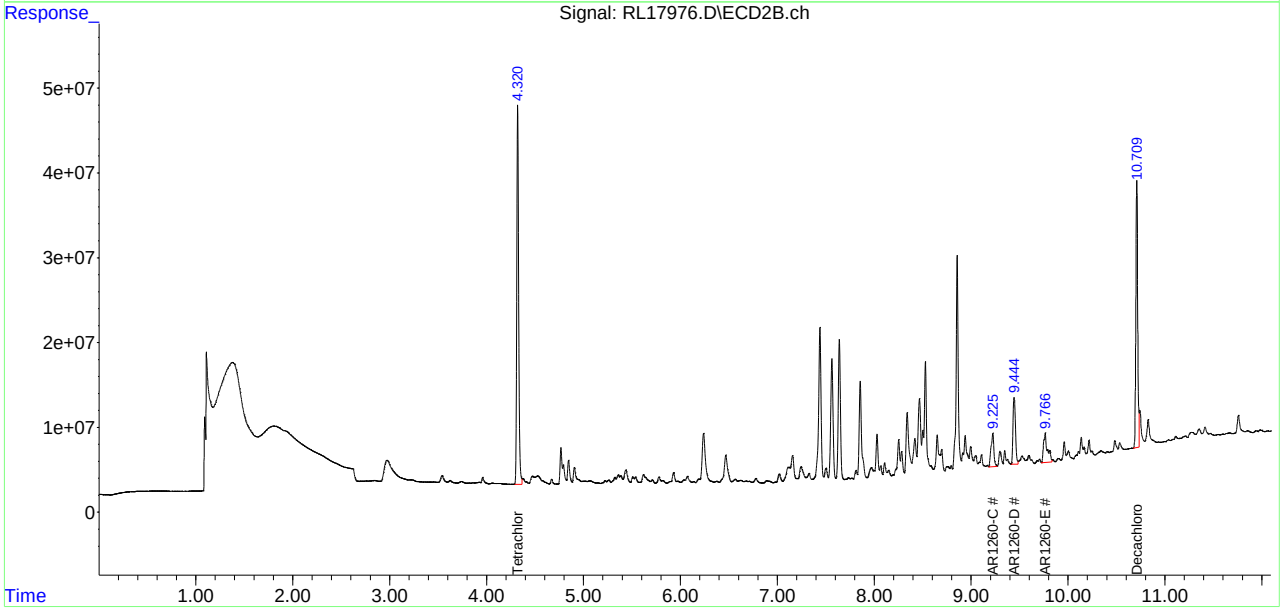
Quantitation Report (QT Reviewed)

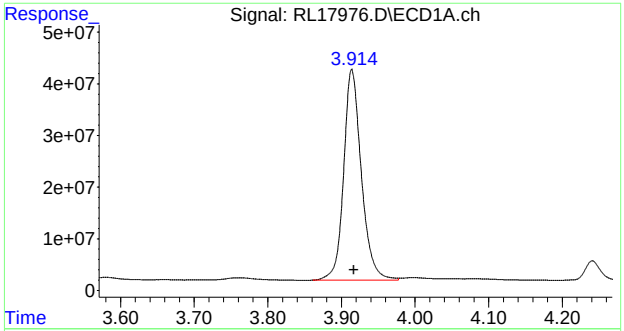
Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17976.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 03:11 am
Operator : christp
Sample : jd91204-1 m
Misc : op55762,grl399,5.2,,,10,1
ALS Vial : 55 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 08:29:46 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

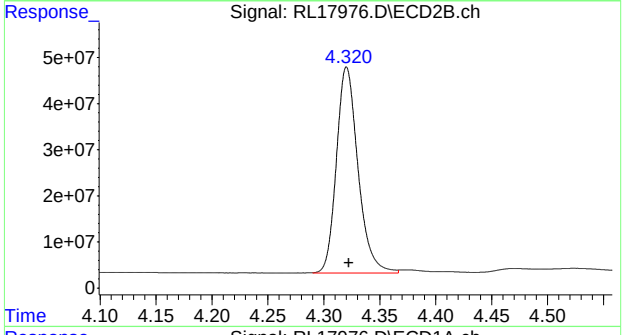






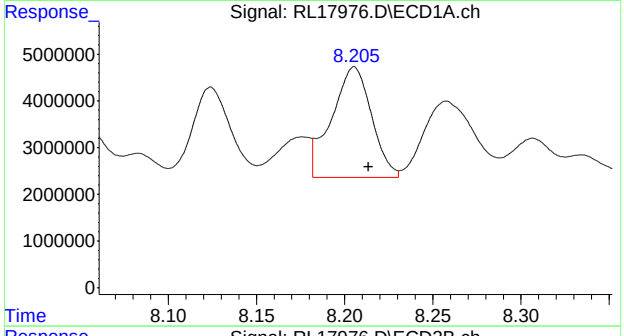
#1 Tetrachloro-m-xylene

R.T.: 3.914 min
Delta R.T.: -0.003 min
Response: 682685784
Conc: 3.13 ppb m



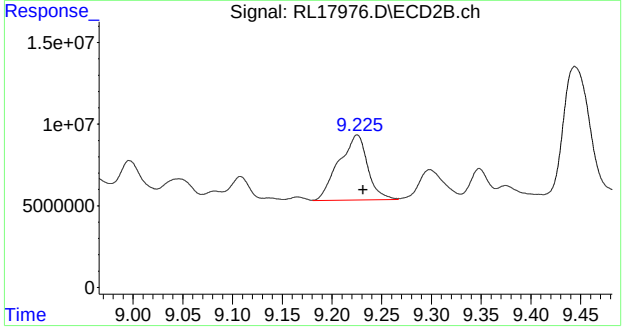
#1 Tetrachloro-m-xylene

R.T.: 4.320 min
Delta R.T.: -0.003 min
Response: 599060762
Conc: 3.98 ppb m



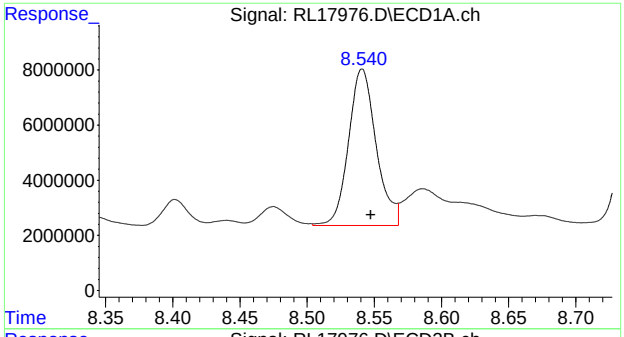
#48 AR1260-C

R.T.: 8.205 min
Delta R.T.: -0.008 min
Response: 37213615
Conc: 4.05 PPB m



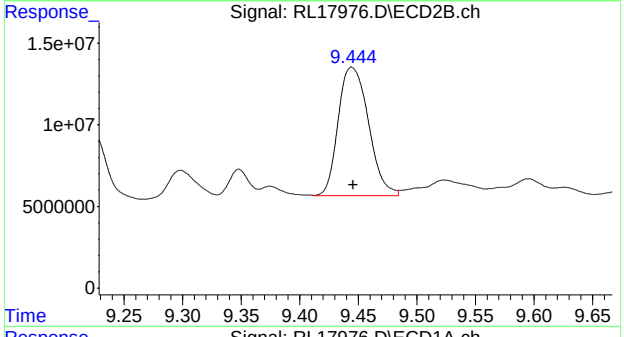
#48 AR1260-C

R.T.: 9.225 min
Delta R.T.: -0.006 min
Response: 80111181
Conc: 9.69 PPB m



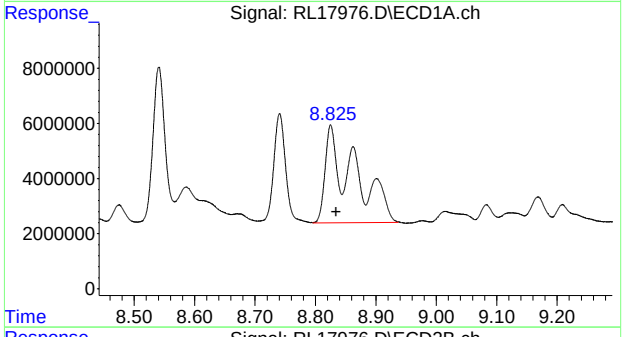
#49 AR1260-D

R.T.: 8.540 min
Delta R.T.: -0.007 min
Response: 81486007
Conc: 3.74 PPB m



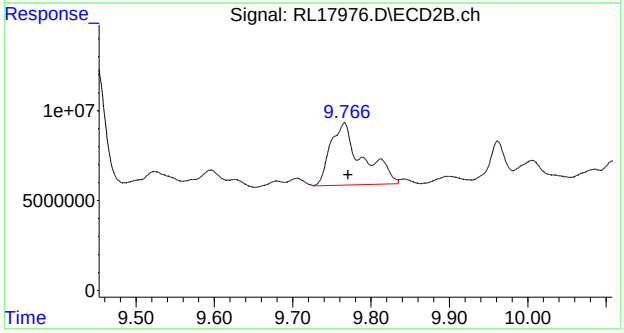
#49 AR1260-D

R.T.: 9.444 min
Delta R.T.: -0.002 min
Response: 142142141
Conc: 7.59 PPB m



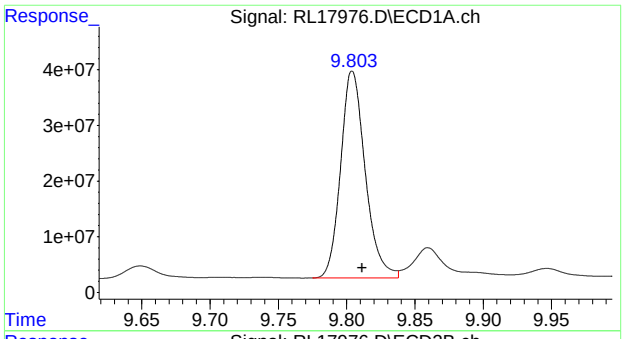
#50 AR1260-E

R.T.: 8.825 min
Delta R.T.: -0.009 min
Response: 115764180
Conc: 5.18 PPB m



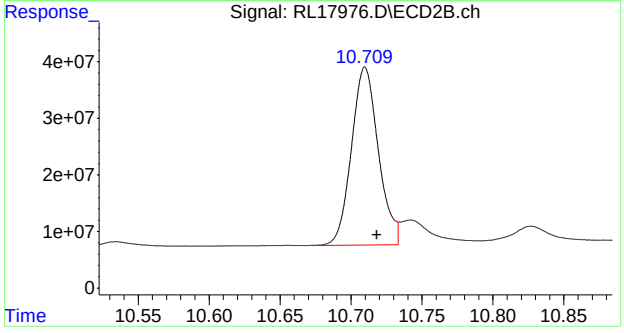
#50 AR1260-E

R.T.: 9.766 min
Delta R.T.: -0.005 min
Response: 97761325
Conc: 5.61 PPB m



#51 Decachlorobiphenyl

R.T.: 9.803 min
Delta R.T.: -0.008 min
Response: 466781740
Conc: 3.18 ppb m



#51 Decachlorobiphenyl

R.T.: 10.709 min
Delta R.T.: -0.009 min
Response: 414777778
Conc: 3.70 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 11:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17977.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 03:28 am
Operator : christp
Sample : jd91204-2 m
Misc : op55762,grl399,5.3,,,10,1
ALS Vial : 56 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 07:56:22 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.915	4.320	701.9E6	585.3E6	3.220	3.888m
Spiked Amount 40.000			Recovery	=	8.05%	9.72%
51) S Decachlor...	9.805	10.705	478.1E6	407.5E6	3.257m	3.636m
Spiked Amount 40.000			Recovery	=	8.14%	9.09%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

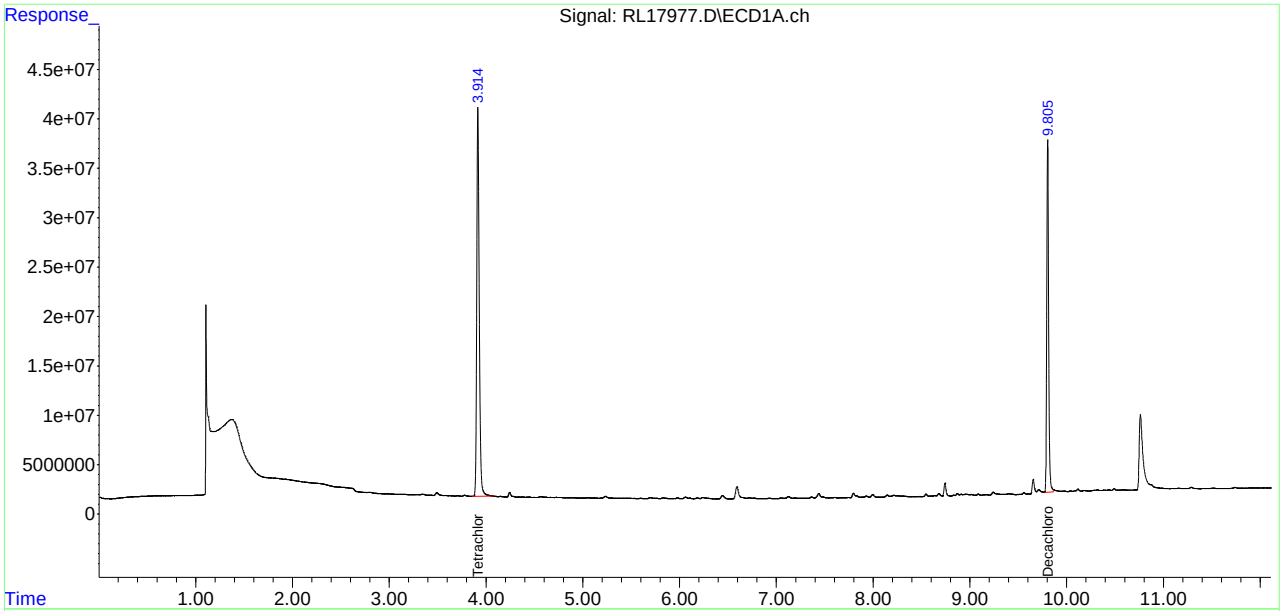
9.1.26
9

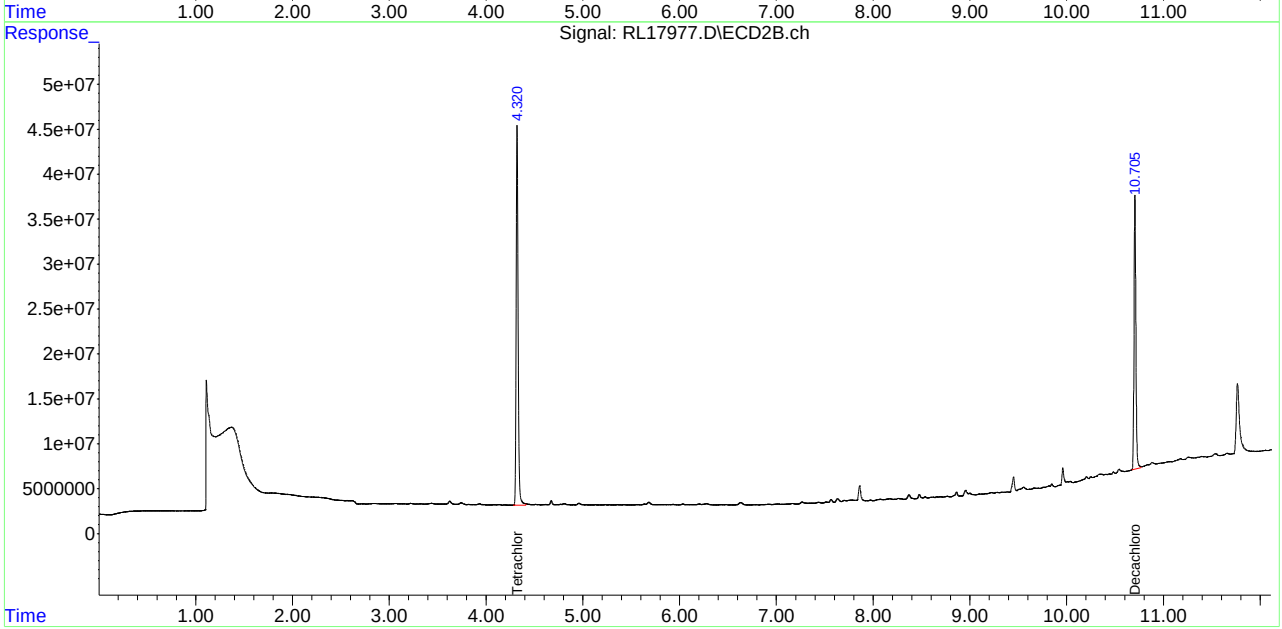
Quantitation Report (QT Reviewed)

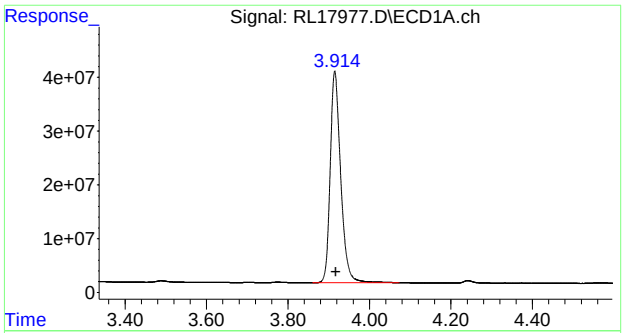
Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17977.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 03:28 am
Operator : christp
Sample : jd91204-2 m
Misc : op55762,grl399,5.3,,,10,1
ALS Vial : 56 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 07:56:22 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

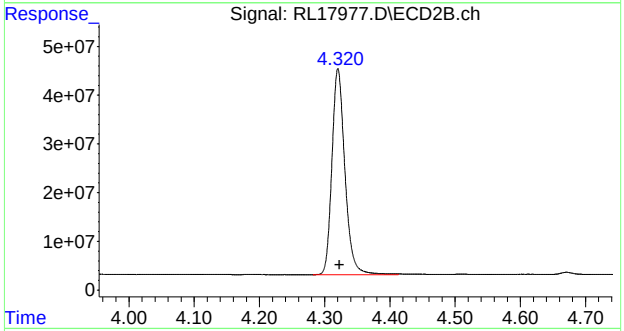






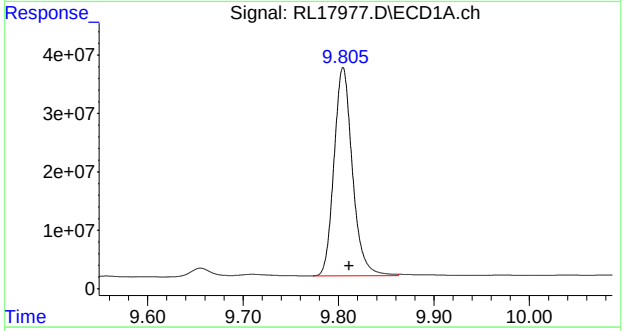
#1 Tetrachloro-m-xylene

R.T.: 3.915 min
Delta R.T.: -0.002 min
Response: 701857169
Conc: 3.22 ppb



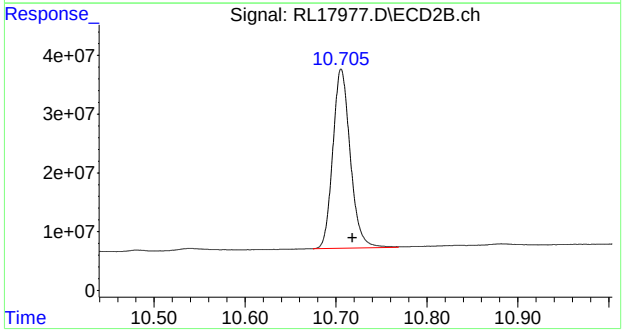
#1 Tetrachloro-m-xylene

R.T.: 4.320 min
Delta R.T.: -0.002 min
Response: 585291545
Conc: 3.89 ppb m



#51 Decachlorobiphenyl

R.T.: 9.805 min
Delta R.T.: -0.007 min
Response: 478140001
Conc: 3.26 ppb m



#51 Decachlorobiphenyl

R.T.: 10.705 min
Delta R.T.: -0.013 min
Response: 407505516
Conc: 3.64 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 11:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17978.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 03:44 am
Operator : christp
Sample : jd91204-3 m
Misc : op55762,grl399,5.2,,,10,1
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 08:14:30 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.915	4.320	700.8E6	591.0E6	3.215m	3.925m
Spiked Amount 40.000			Recovery	=	8.04%	9.81%
51) S Decachlor...	9.802	10.705	631.9E6	577.1E6	4.304m	5.149m
Spiked Amount 40.000			Recovery	=	10.76%	12.87%
Target Compounds						

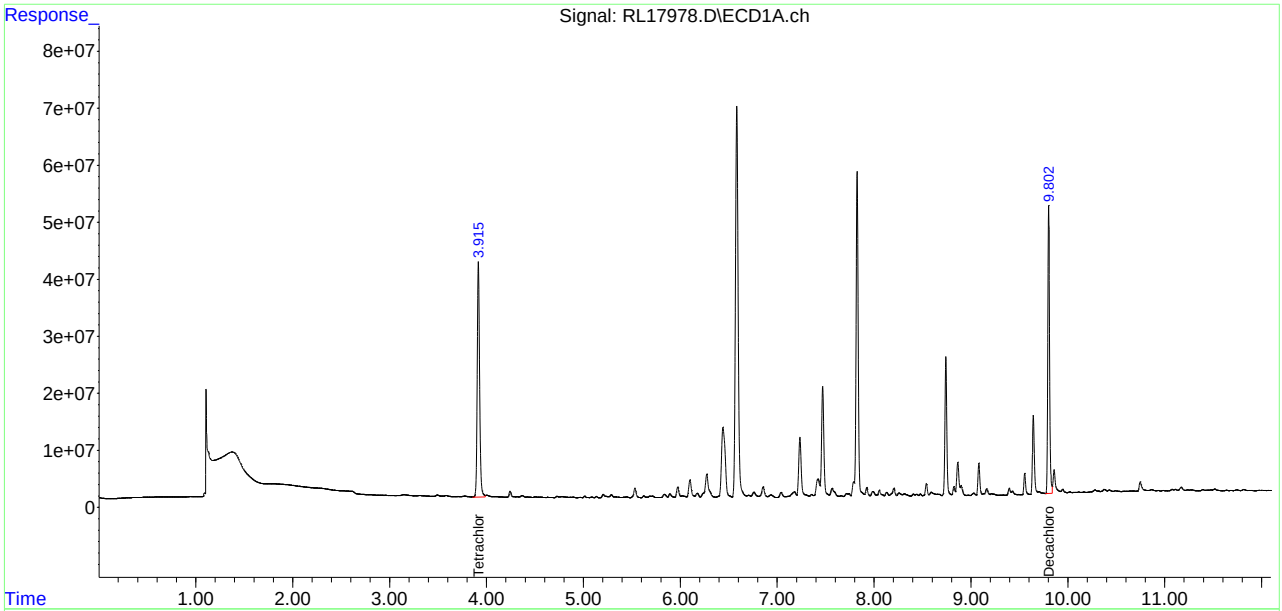
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

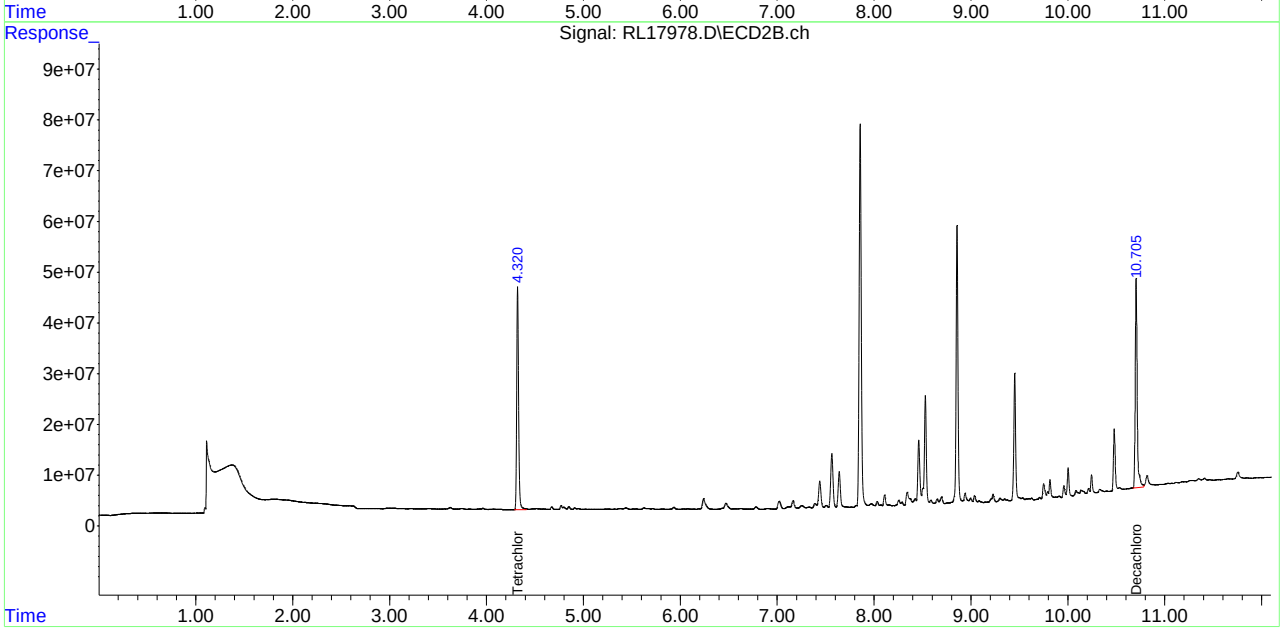
Quantitation Report (QT Reviewed)

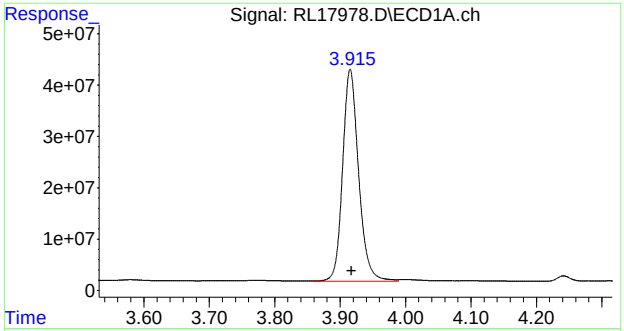
Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17978.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 03:44 am
Operator : christp
Sample : jd91204-3 m
Misc : op55762,grl399,5.2,,,10,1
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 08:14:30 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

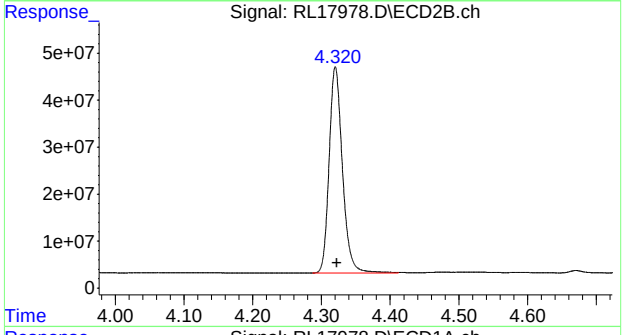






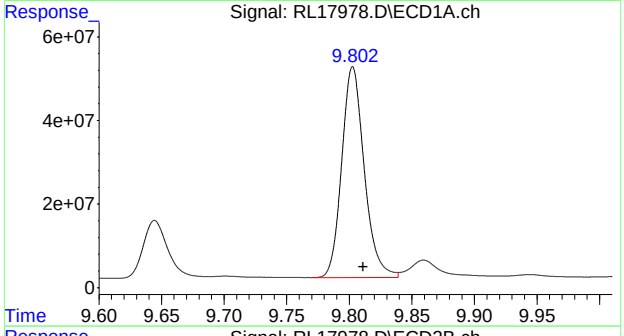
#1 Tetrachloro-m-xylene

R.T.: 3.915 min
Delta R.T.: -0.002 min
Response: 700817468
Conc: 3.22 ppb m



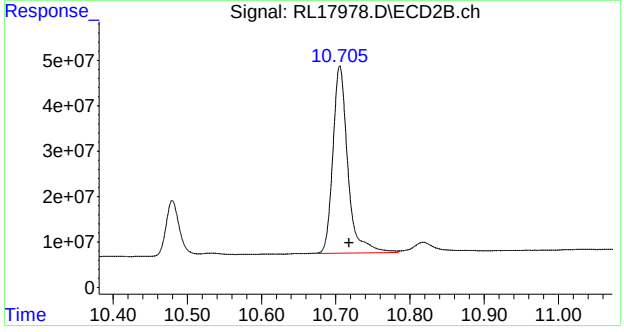
#1 Tetrachloro-m-xylene

R.T.: 4.320 min
Delta R.T.: -0.002 min
Response: 590960444
Conc: 3.93 ppb m



#51 Decachlorobiphenyl

R.T.: 9.802 min
Delta R.T.: -0.009 min
Response: 631872460
Conc: 4.30 ppb m



#51 Decachlorobiphenyl

R.T.: 10.705 min
Delta R.T.: -0.013 min
Response: 577074340
Conc: 5.15 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 11:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17979.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 04:01 am
Operator : christp
Sample : jd91204-4 m
Misc : op55762,grl399,5.2,,,10,1
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 13:24:51 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1)	S Tetrachlo...	3.914	4.320	692.2E6	599.8E6	3.176m	3.984m#
	Spiked Amount 40.000			Recovery	=	7.94%	9.96%
51)	S Decachlor...	9.804	10.709	478.6E6	422.5E6	3.260m	3.770m
	Spiked Amount 40.000			Recovery	=	8.15%	9.43%
	Target Compounds						
33)	AR1262-C	8.206	9.296	63357737	54549948	5.398m	5.565m
34)	AR1262-D	8.540	9.448	197.3E6	281.6E6	7.171m	13.502m#
35)	AR1262-E	8.865	9.767	253.0E6	189.3E6	8.833m	8.652m

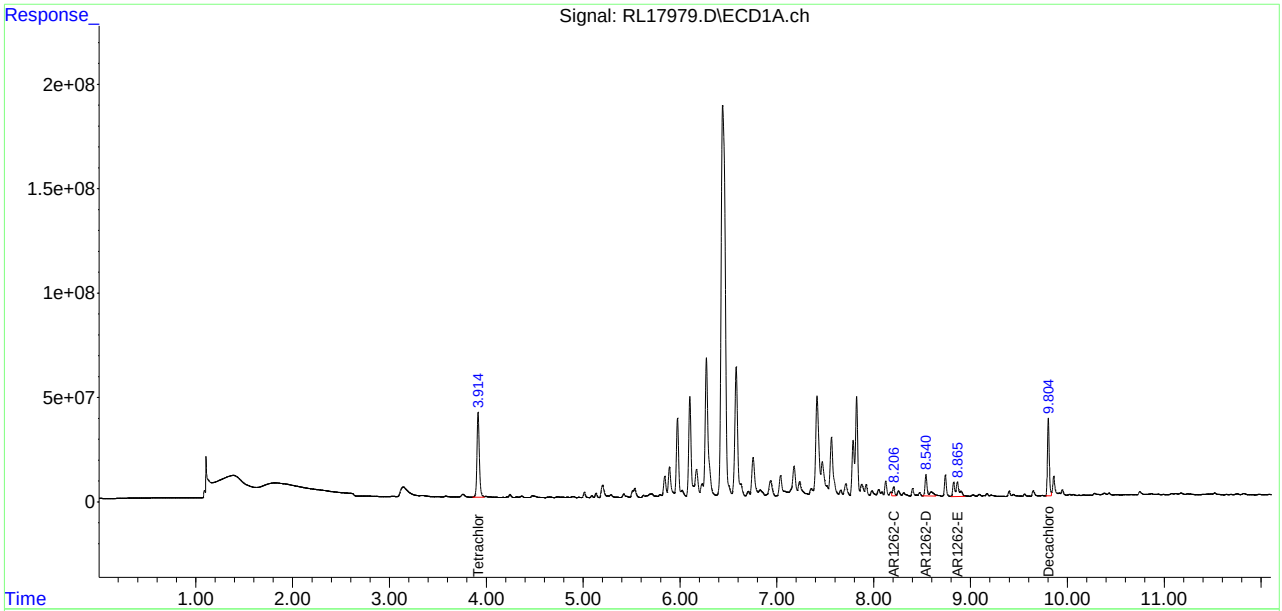
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

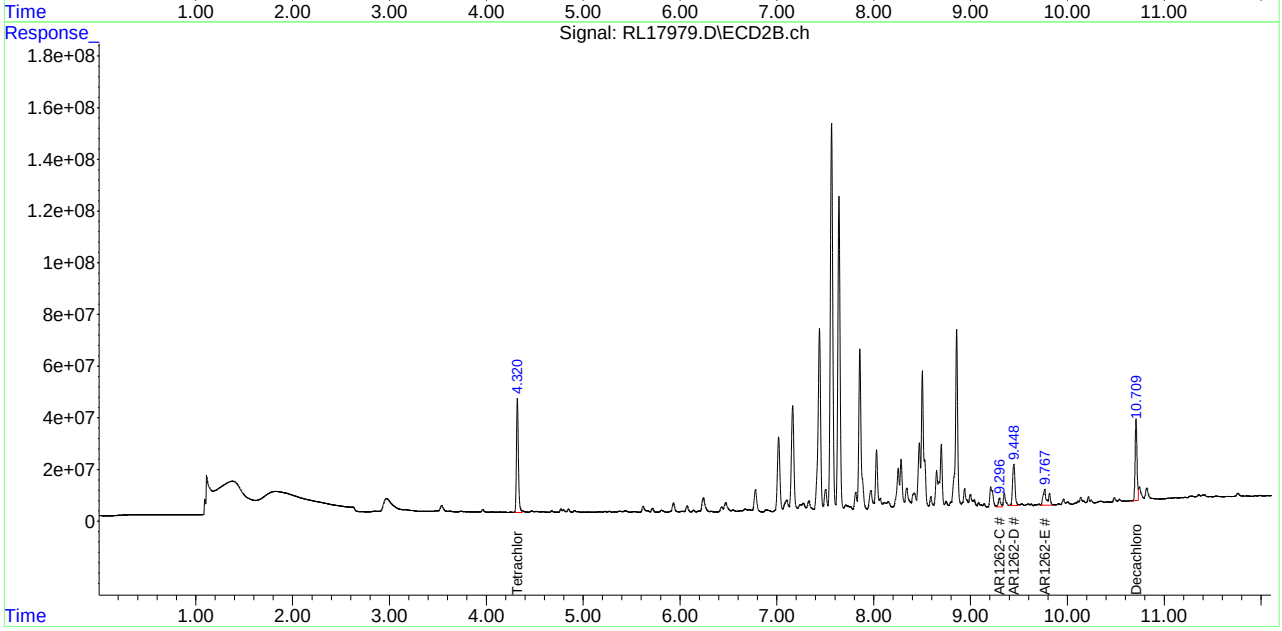
Quantitation Report (QT Reviewed)

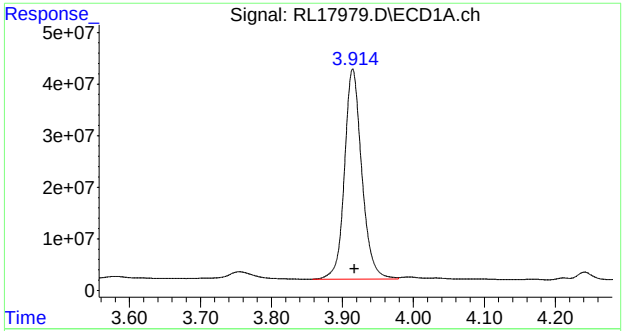
Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17979.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 04:01 am
Operator : christp
Sample : jd91204-4 m
Misc : op55762,grl399,5.2,,,10,1
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 13:24:51 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

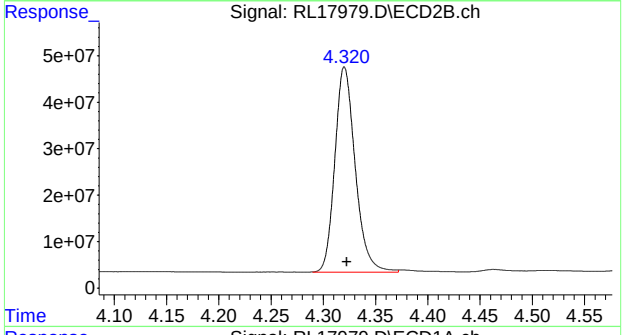






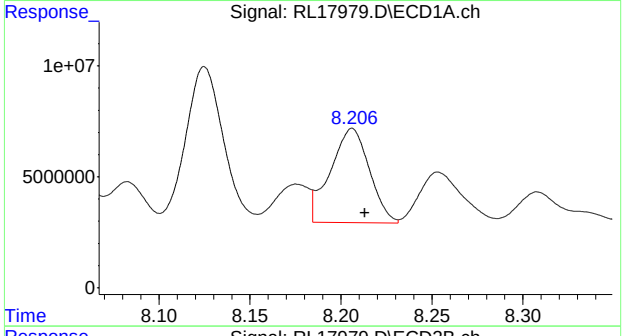
#1 Tetrachloro-m-xylene

R.T.: 3.914 min
Delta R.T.: -0.003 min
Response: 692167387
Conc: 3.18 ppb m



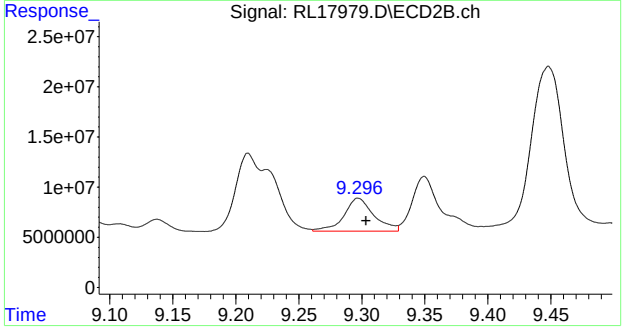
#1 Tetrachloro-m-xylene

R.T.: 4.320 min
Delta R.T.: -0.003 min
Response: 599828922
Conc: 3.98 ppb m



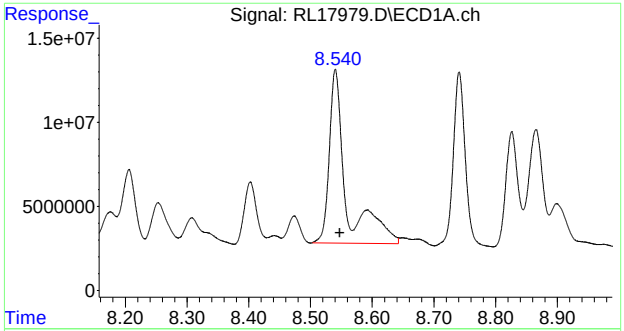
#33 AR1262-C

R.T.: 8.206 min
Delta R.T.: -0.007 min
Response: 63357737
Conc: 5.40 PPB m



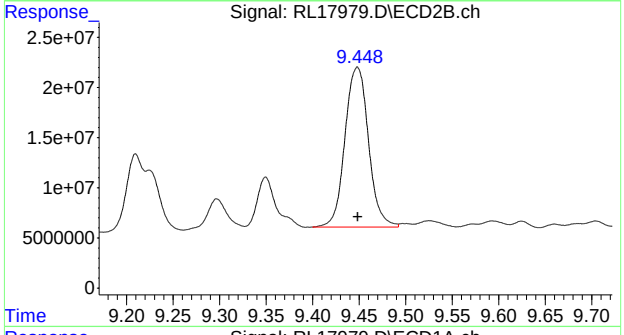
#33 AR1262-C

R.T.: 9.296 min
Delta R.T.: -0.007 min
Response: 54549948
Conc: 5.56 PPB m



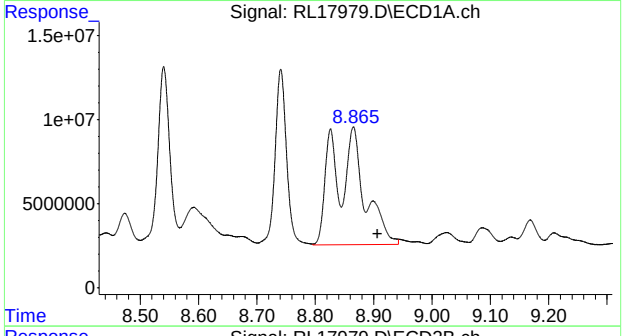
#34 AR1262-D

R.T.: 8.540 min
Delta R.T.: -0.007 min
Response: 197313862
Conc: 7.17 PPB m



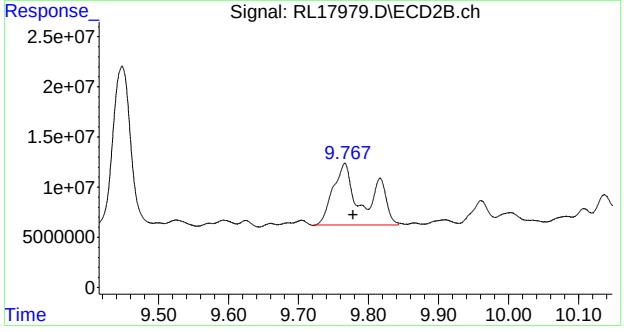
#34 AR1262-D

R.T.: 9.448 min
Delta R.T.: 0.000 min
Response: 281640112
Conc: 13.50 PPB m



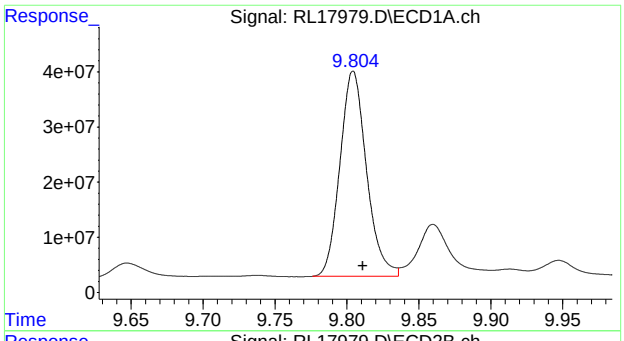
#35 AR1262-E

R.T.: 8.865 min
Delta R.T.: -0.041 min
Response: 252973735
Conc: 8.83 PPB m



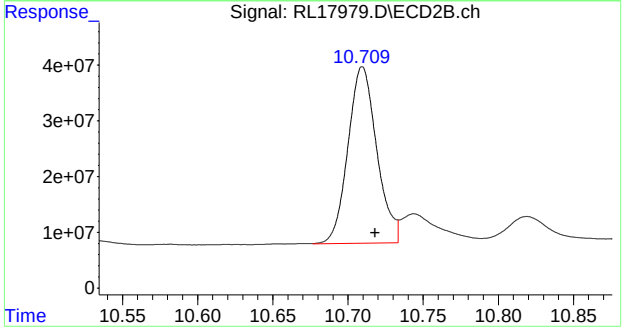
#35 AR1262-E

R.T.: 9.767 min
Delta R.T.: -0.011 min
Response: 189319354
Conc: 8.65 PPB m



#51 Decachlorobiphenyl

R.T.: 9.804 min
Delta R.T.: -0.007 min
Response: 478576690
Conc: 3.26 ppb m



#51 Decachlorobiphenyl

R.T.: 10.709 min
Delta R.T.: -0.009 min
Response: 422468022
Conc: 3.77 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 11:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17980.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 04:18 am
Operator : christp
Sample : jd91204-5 m
Misc : op55762,grl399,5.4,,,10,1
ALS Vial : 59 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 13:26:52 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1)	S Tetrachlo...	3.914	4.320	713.5E6	638.1E6	3.274m	4.238m#
	Spiked Amount 40.000			Recovery	=	8.19%	10.60%
51)	S Decachlor...	9.804	10.708	475.0E6	433.8E6	3.236	3.871m
	Spiked Amount 40.000			Recovery	=	8.09%	9.68%
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

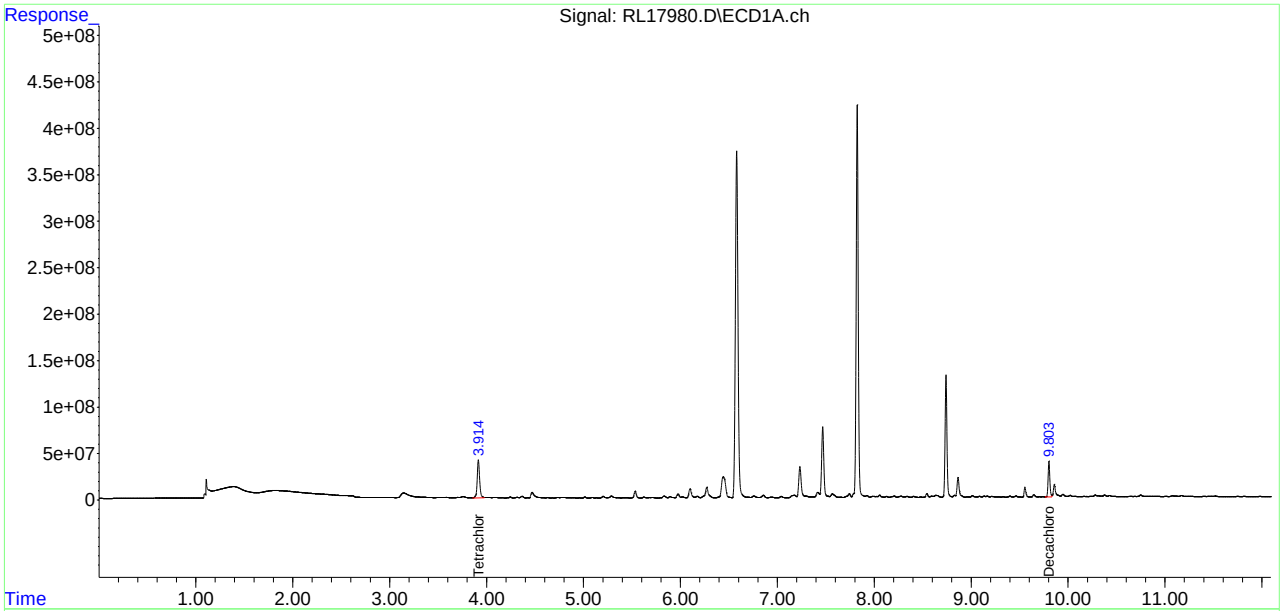
9.1.29

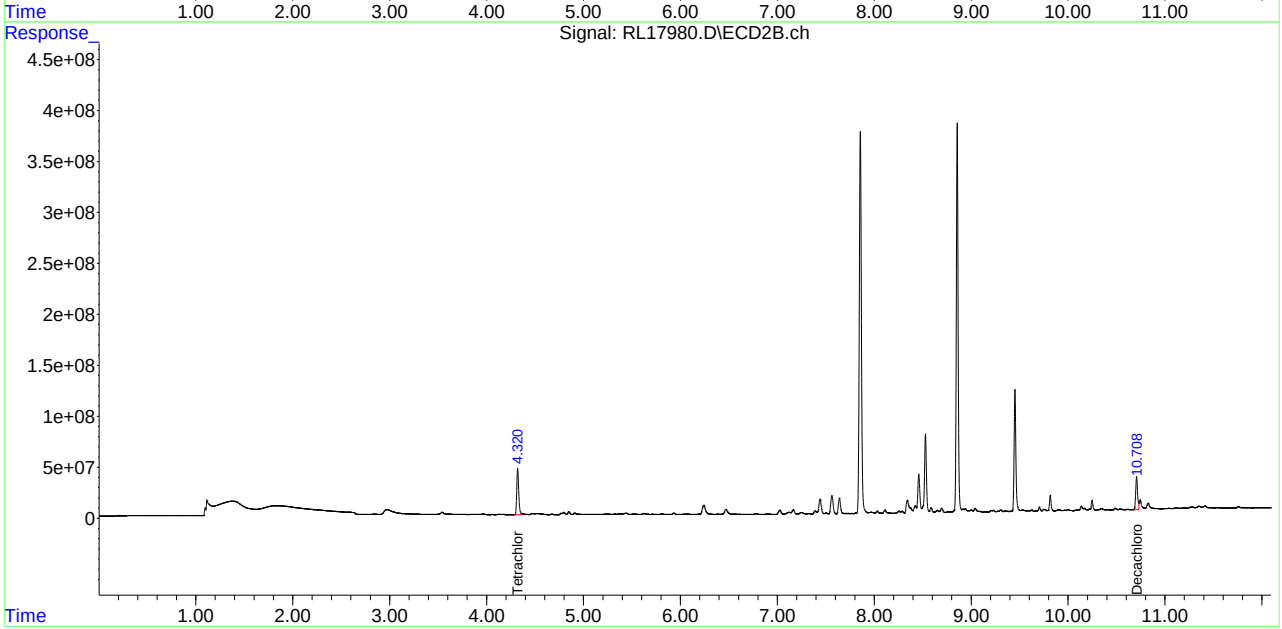
Quantitation Report (QT Reviewed)

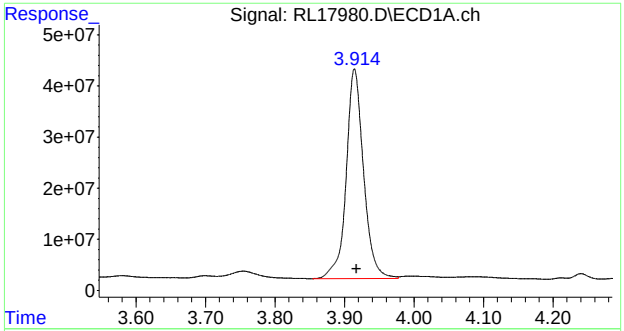
Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17980.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 04:18 am
Operator : christp
Sample : jd91204-5 m
Misc : op55762,grl399,5.4,,,10,1
ALS Vial : 59 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 13:26:52 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

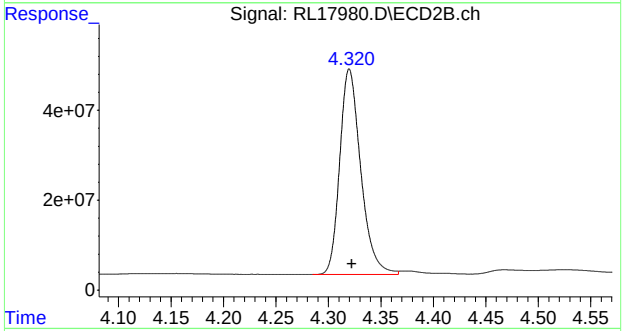






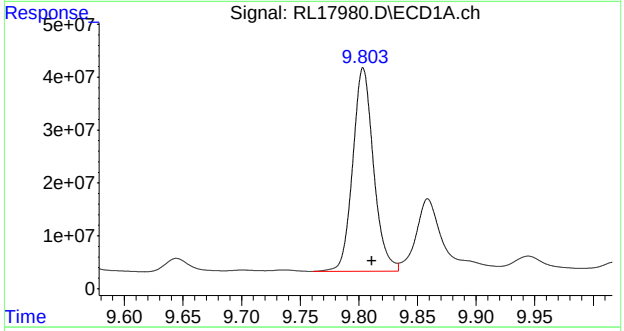
#1 Tetrachloro-m-xylene

R.T.: 3.914 min
Delta R.T.: -0.003 min
Response: 713508727
Conc: 3.27 ppb m



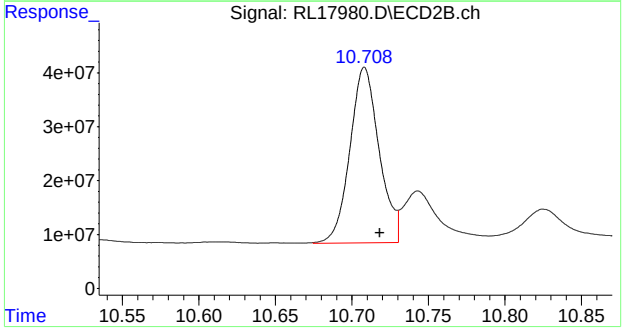
#1 Tetrachloro-m-xylene

R.T.: 4.320 min
Delta R.T.: -0.003 min
Response: 638105099
Conc: 4.24 ppb m



#51 Decachlorobiphenyl

R.T.: 9.804 min
Delta R.T.: -0.007 min
Response: 475047133
Conc: 3.24 ppb



#51 Decachlorobiphenyl

R.T.: 10.708 min
Delta R.T.: -0.010 min
Response: 433803750
Conc: 3.87 ppb m

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
07/01/24 12:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl399\
Data File : RL17981.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 04:35 am
Operator : christp
Sample : jd91204-6 m
Misc : op55762,grl399,5.4,,,10,1
ALS Vial : 60 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 12:16:37 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1)	S Tetrachlo...	3.915	4.320	687.2E6	573.3E6	3.153m	3.808m
	Spiked Amount 40.000			Recovery	=	7.88%	9.52%
51)	S Decachlor...	9.803	10.709	513.7E6	460.9E6	3.499m	4.113m
	Spiked Amount 40.000			Recovery	=	8.75%	10.28%
	Target Compounds						
32)	AR1262-B	7.923	8.939	33916597	38050224	2.329m	3.012m#
34)	AR1262-D	8.542	9.443	78335811	47783009	2.847m	2.291m
35)	AR1262-E	8.861	9.749	126.1E6	121.2E6	4.403m	5.539m#

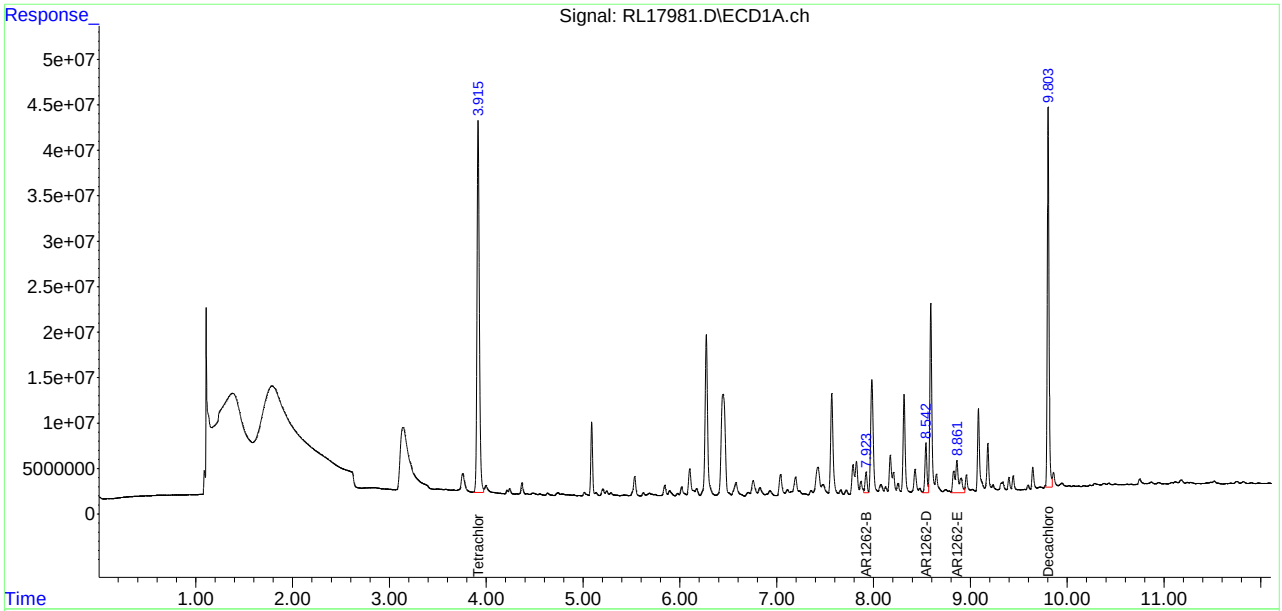
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

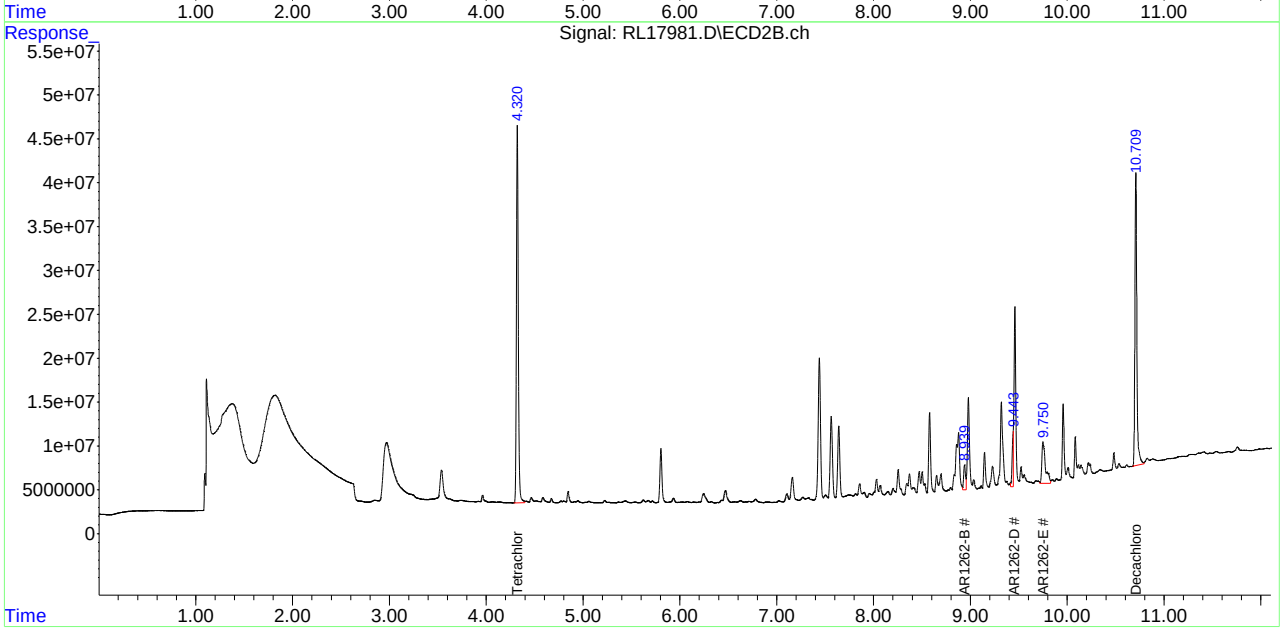
Quantitation Report (QT Reviewed)

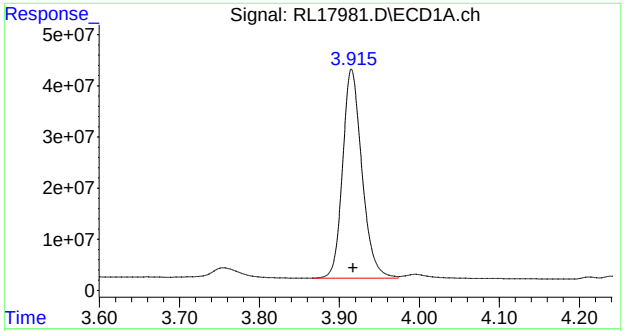
Data Path : C:\msdchem\1\data\grl399\
Data File : RL17981.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 04:35 am
Operator : christp
Sample : jd91204-6 m
Misc : op55762,grl399,5.4,,,10,1
ALS Vial : 60 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 12:16:37 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

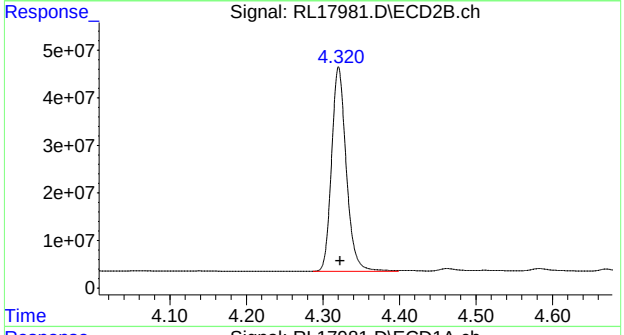






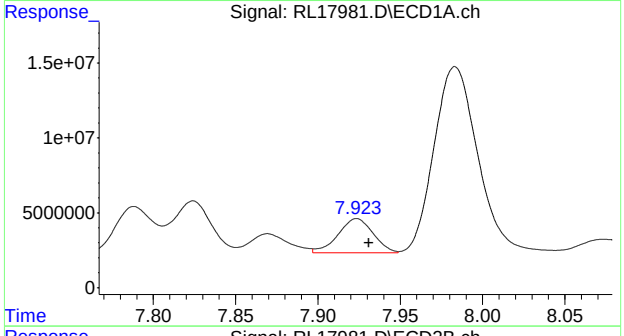
#1 Tetrachloro-m-xylene

R.T.: 3.915 min
Delta R.T.: -0.002 min
Response: 687161350
Conc: 3.15 ppb m



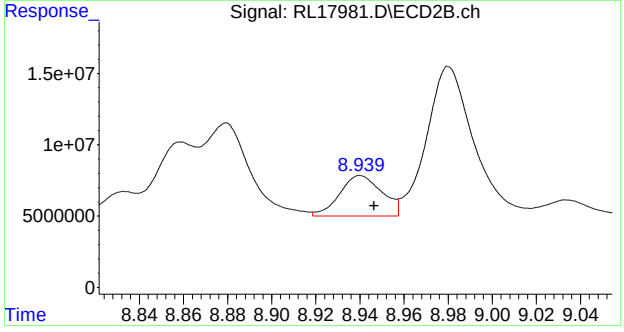
#1 Tetrachloro-m-xylene

R.T.: 4.320 min
Delta R.T.: -0.002 min
Response: 573310757
Conc: 3.81 ppb m



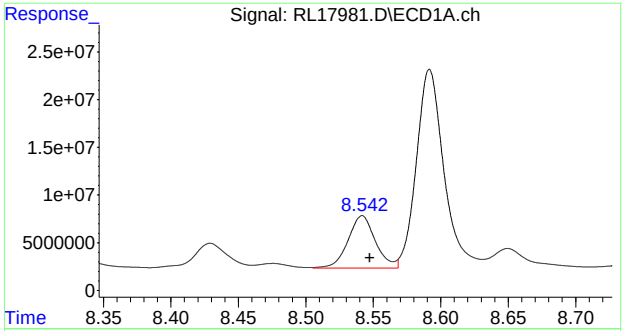
#32 AR1262-B

R.T.: 7.923 min
Delta R.T.: -0.008 min
Response: 33916597
Conc: 2.33 PPB m



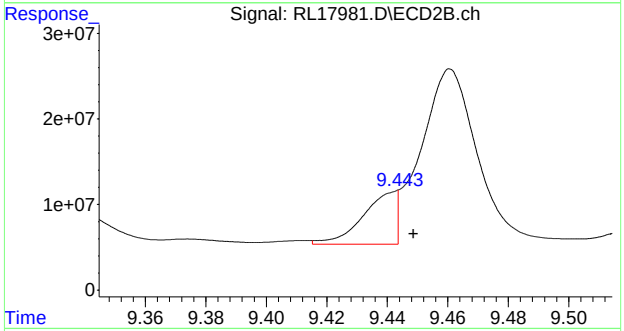
#32 AR1262-B

R.T.: 8.939 min
Delta R.T.: -0.007 min
Response: 38050224
Conc: 3.01 PPB m



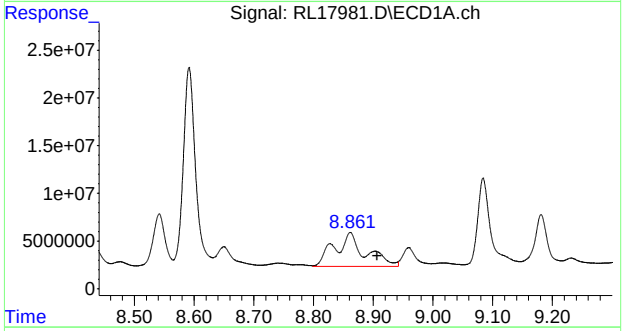
#34 AR1262-D

R.T.: 8.542 min
Delta R.T.: -0.006 min
Response: 78335811
Conc: 2.85 PPB m



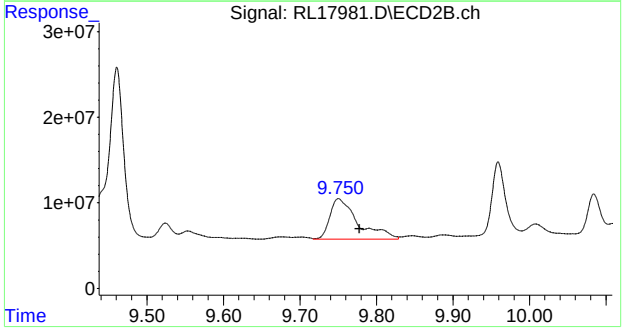
#34 AR1262-D

R.T.: 9.443 min
Delta R.T.: -0.005 min
Response: 47783009
Conc: 2.29 PPB m



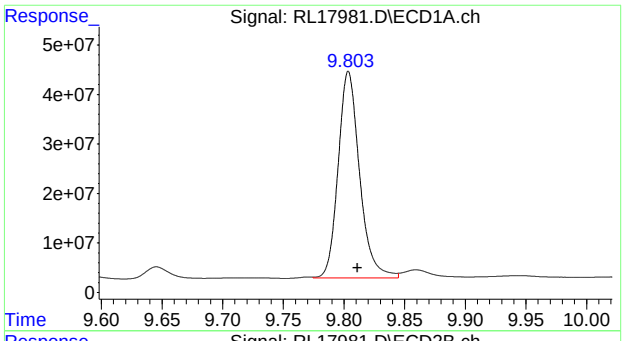
#35 AR1262-E

R.T.: 8.861 min
Delta R.T.: -0.045 min
Response: 126097823
Conc: 4.40 PPB m



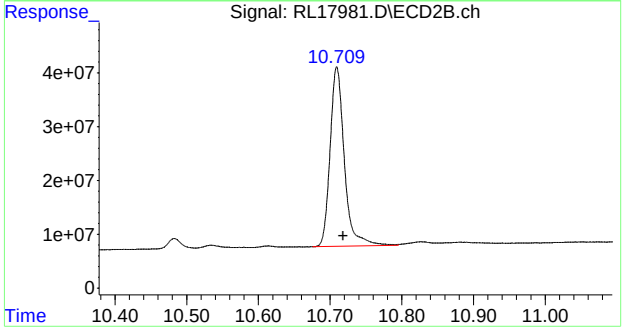
#35 AR1262-E

R.T.: 9.749 min
Delta R.T.: -0.028 min
Response: 121196514
Conc: 5.54 PPB m



#51 Decachlorobiphenyl

R.T.: 9.803 min
Delta R.T.: -0.008 min
Response: 513718704
Conc: 3.50 ppb m



#51 Decachlorobiphenyl

R.T.: 10.709 min
Delta R.T.: -0.009 min
Response: 460940077
Conc: 4.11 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 11:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17982.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 04:51 am
Operator : christp
Sample : jd91204-7 m
Misc : op55762,grl399,5.1,,,10,1
ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 13:32:37 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.914	4.320	688.4E6	578.4E6	3.158m	3.842m
Spiked Amount 40.000			Recovery	=	7.89%	9.61%
51) S Decachlor...	9.804	10.708	473.7E6	411.6E6	3.227m	3.673m
Spiked Amount 40.000			Recovery	=	8.07%	9.18%
Target Compounds						

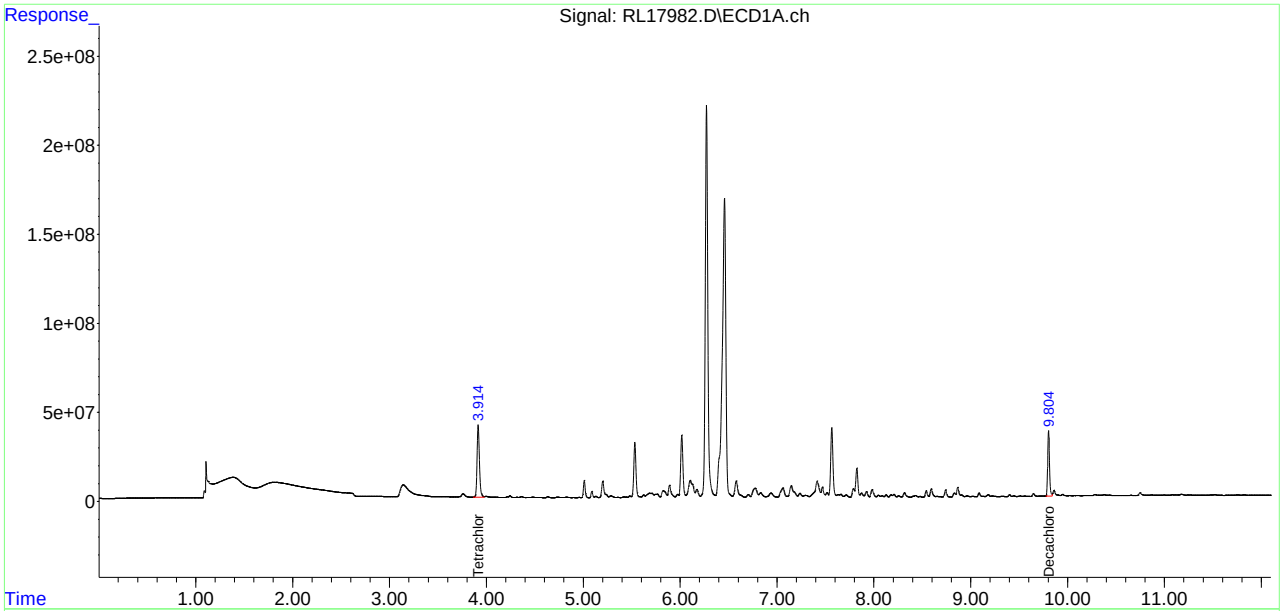
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

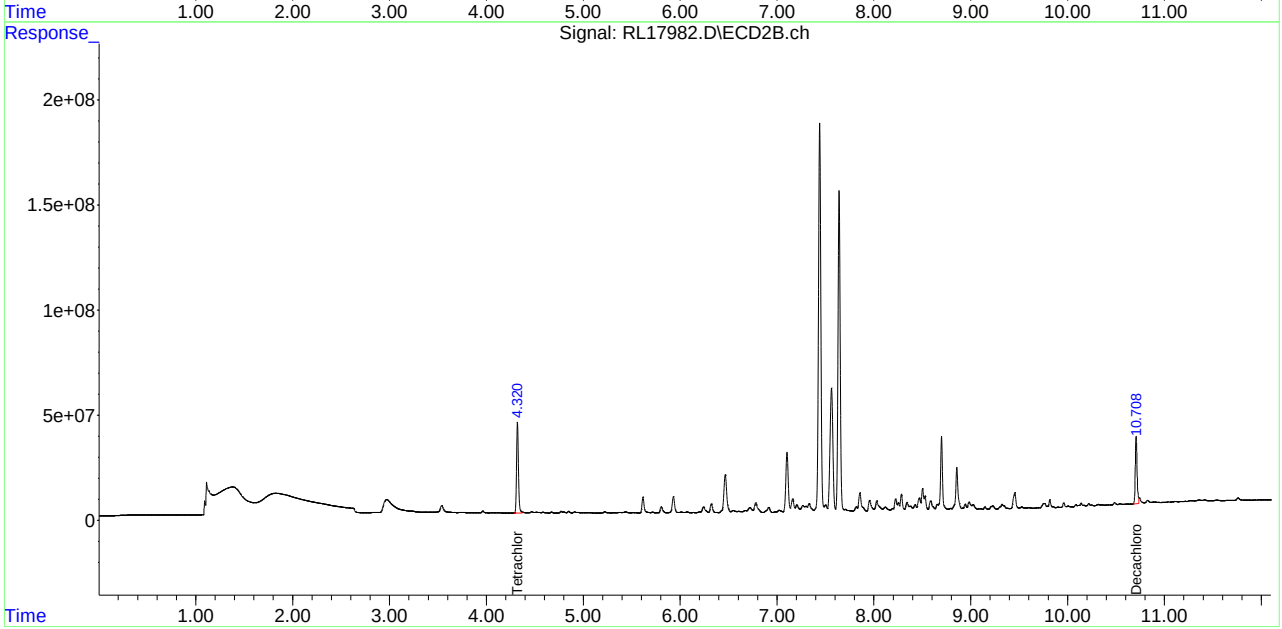
Quantitation Report (QT Reviewed)

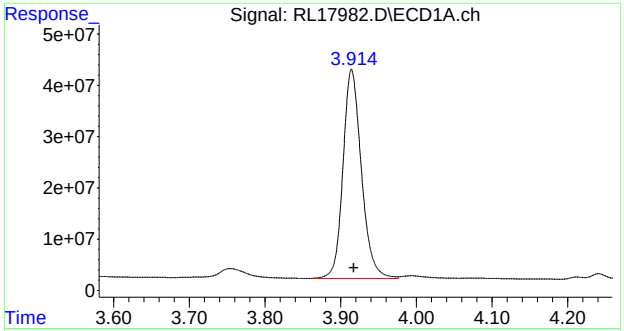
Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17982.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 04:51 am
Operator : christp
Sample : jd91204-7 m
Misc : op55762,grl399,5.1,,,10,1
ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 13:32:37 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

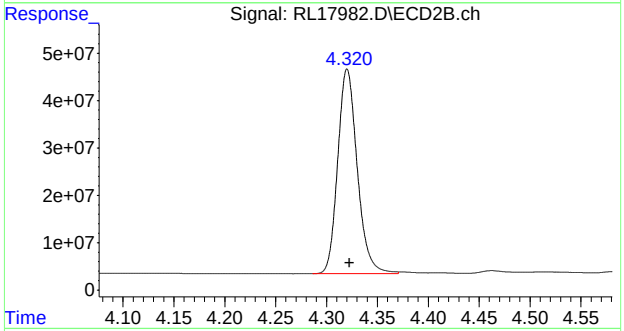






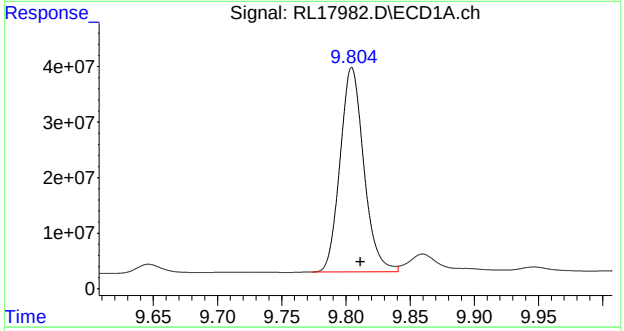
#1 Tetrachloro-m-xylene

R.T.: 3.914 min
Delta R.T.: -0.003 min
Response: 688391942
Conc: 3.16 ppb m



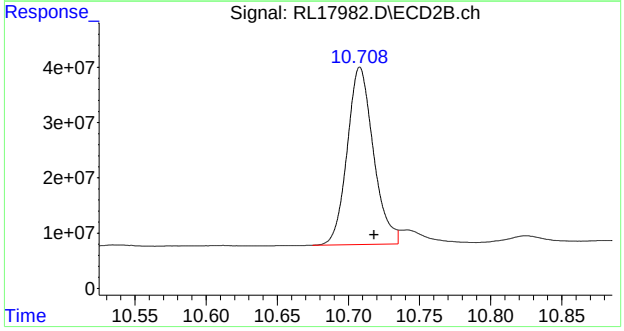
#1 Tetrachloro-m-xylene

R.T.: 4.320 min
Delta R.T.: -0.003 min
Response: 578391765
Conc: 3.84 ppb m



#51 Decachlorobiphenyl

R.T.: 9.804 min
Delta R.T.: -0.007 min
Response: 473710571
Conc: 3.23 ppb m



#51 Decachlorobiphenyl

R.T.: 10.708 min
Delta R.T.: -0.010 min
Response: 411600122
Conc: 3.67 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 11:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17983.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 05:08 am
Operator : christp
Sample : jd91204-8 m
Misc : op55762,grl399,5.2,,,10,1
ALS Vial : 62 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 13:33:41 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.914	4.320	712.4E6	586.3E6	3.269m	3.894m
Spiked Amount 40.000			Recovery	=	8.17%	9.74%
51) S Decachlor...	9.803	10.708	479.2E6	410.0E6	3.264m	3.659m
Spiked Amount 40.000			Recovery	=	8.16%	9.15%
Target Compounds						

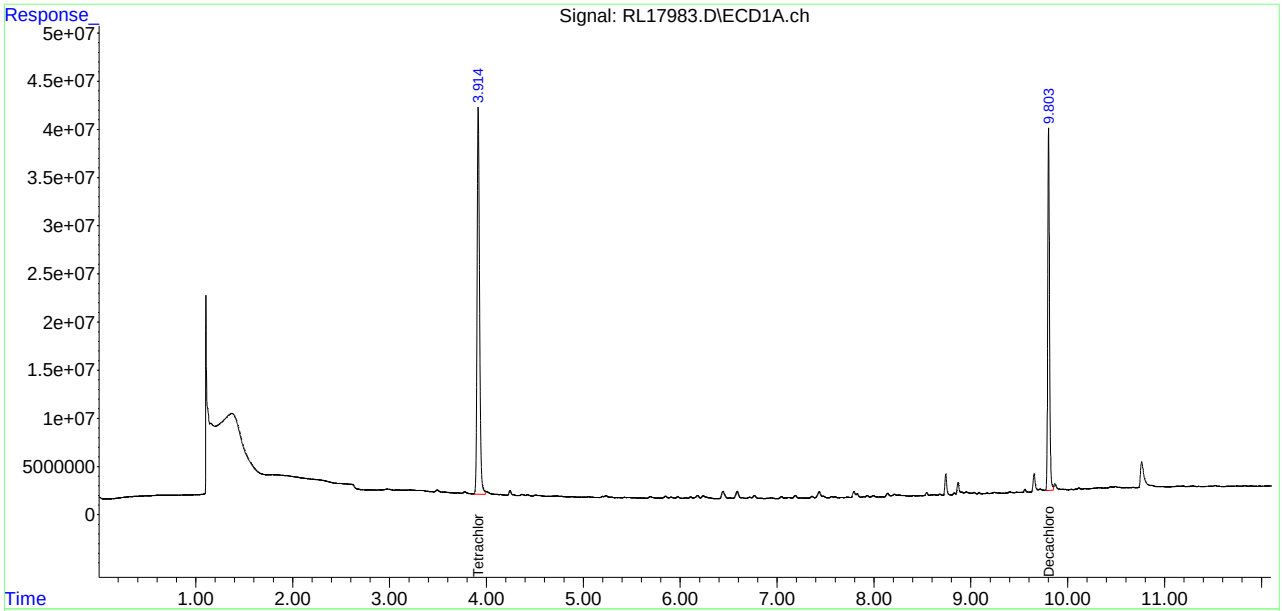
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

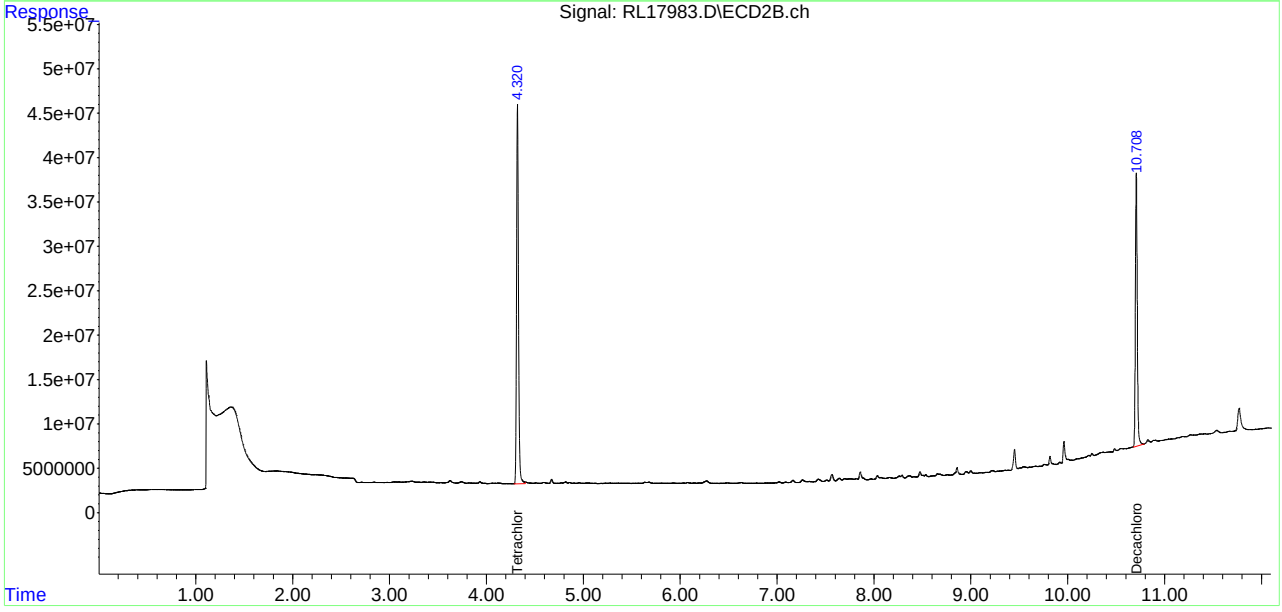
Quantitation Report (QT Reviewed)

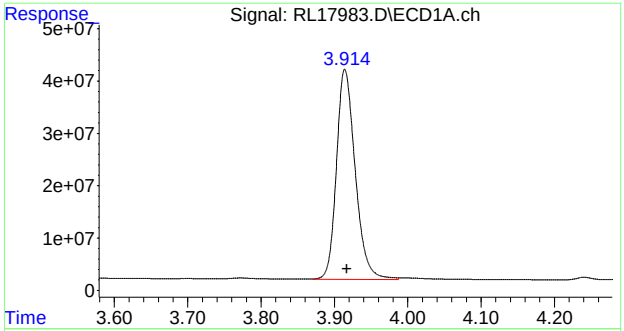
Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17983.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 05:08 am
Operator : christp
Sample : jd91204-8 m
Misc : op55762,grl399,5.2,,,10,1
ALS Vial : 62 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 13:33:41 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

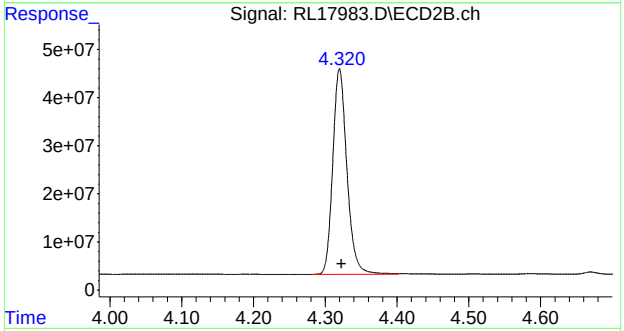






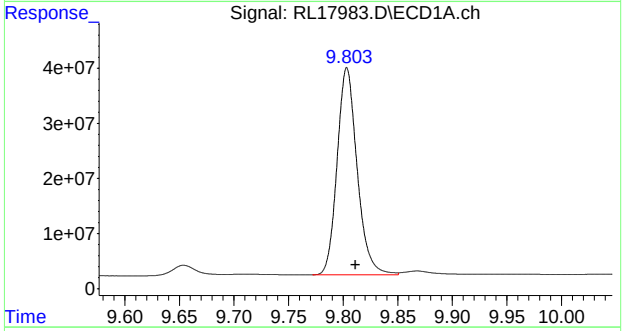
#1 Tetrachloro-m-xylene

R.T.: 3.914 min
Delta R.T.: -0.003 min
Response: 712431390
Conc: 3.27 ppb m



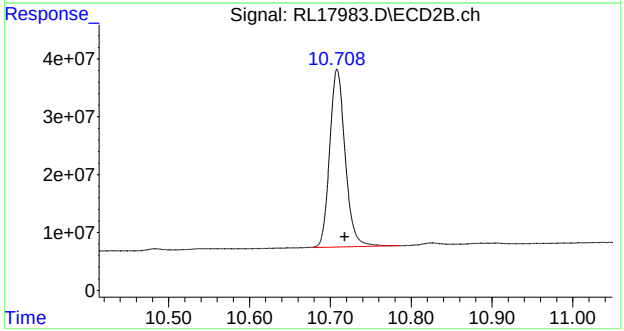
#1 Tetrachloro-m-xylene

R.T.: 4.320 min
Delta R.T.: -0.003 min
Response: 586303528
Conc: 3.89 ppb m



#51 Decachlorobiphenyl

R.T.: 9.803 min
Delta R.T.: -0.008 min
Response: 479247950
Conc: 3.26 ppb m



#51 Decachlorobiphenyl

R.T.: 10.708 min
Delta R.T.: -0.010 min
Response: 410028591
Conc: 3.66 ppb m

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
07/01/24 11:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17984.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 05:25 am
Operator : christp
Sample : jd91204-9 m
Misc : op55762,grl399,5.1,,,10,1
ALS Vial : 63 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 13:36:57 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1)	S Tetrachlo...	3.915	4.321	741.5E6	681.8E6	3.402m	4.528m#
	Spiked Amount 40.000			Recovery	=	8.51%	11.32%
51)	S Decachlor...	9.805	10.707	682.4E6	605.7E6	4.648m	5.404m
	Spiked Amount 40.000			Recovery	=	11.62%	13.51%
	Target Compounds						
33)	AR1262-C	8.205	9.299	55703025	55660553	4.746m	5.678m
34)	AR1262-D	8.540	9.449	175.1E6	229.8E6	6.363m	11.018m#
35)	AR1262-E	8.863	9.753	259.1E6	183.6E6	9.047m	8.393m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.1.33

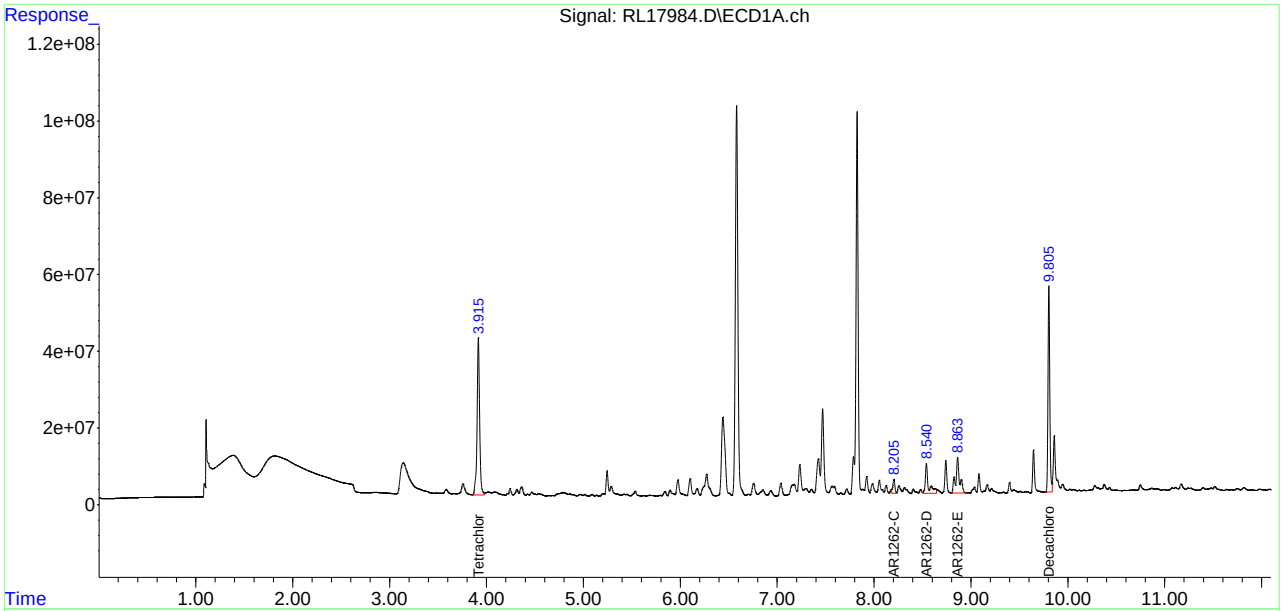
9

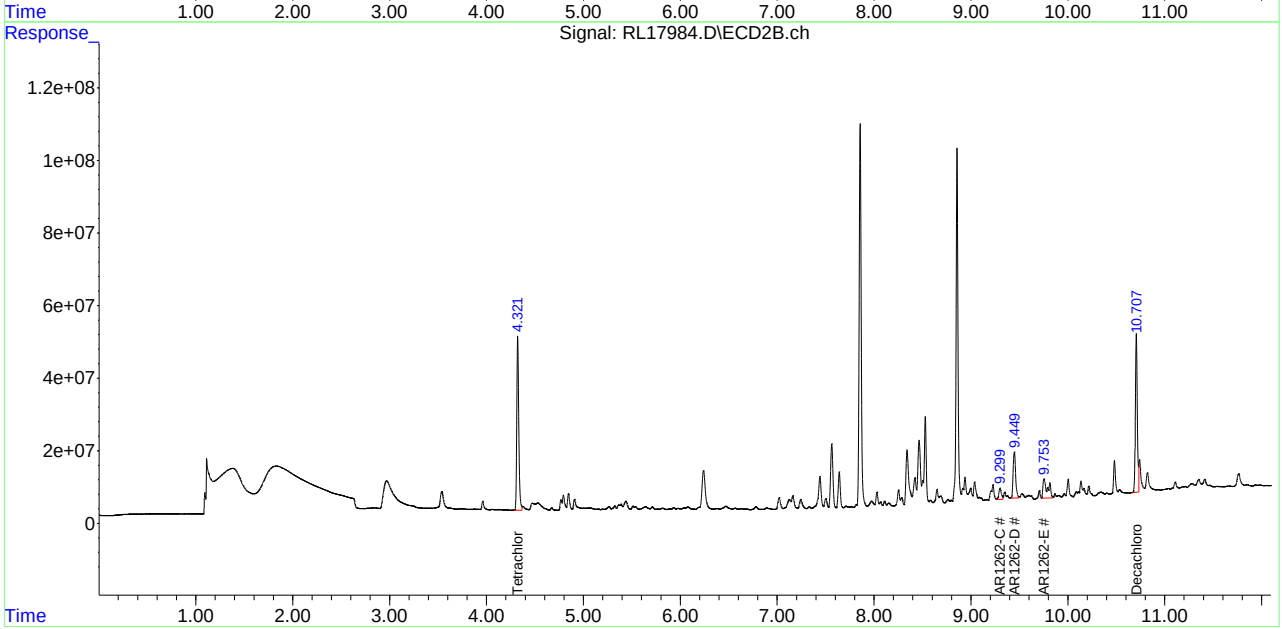
Quantitation Report (QT Reviewed)

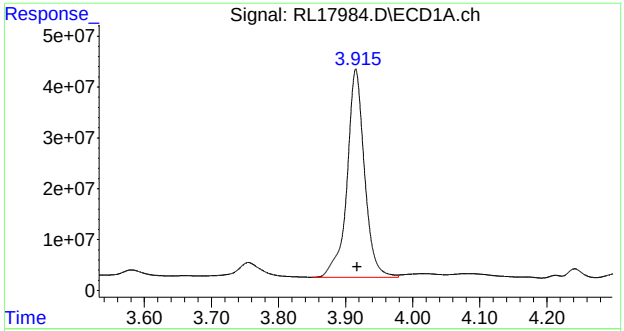
Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17984.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 05:25 am
Operator : christp
Sample : jd91204-9 m
Misc : op55762,grl399,5.1,,,10,1
ALS Vial : 63 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 13:36:57 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

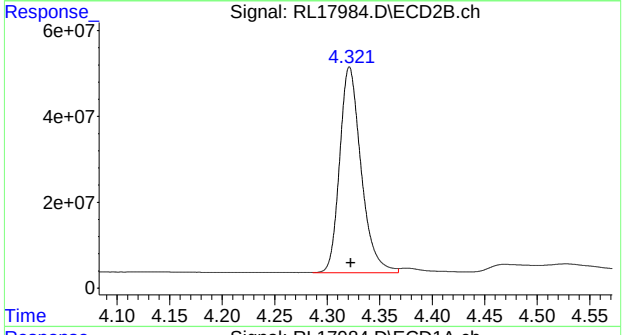






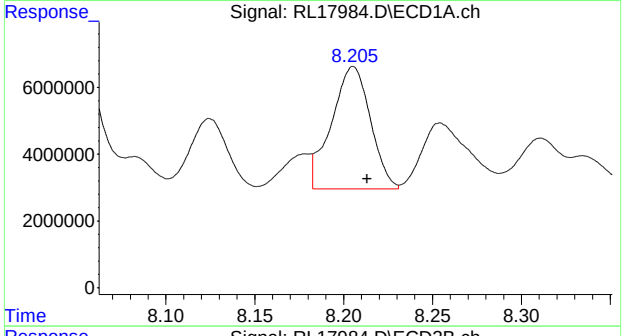
#1 Tetrachloro-m-xylene

R.T.: 3.915 min
Delta R.T.: -0.002 min
Response: 741489386
Conc: 3.40 ppb m



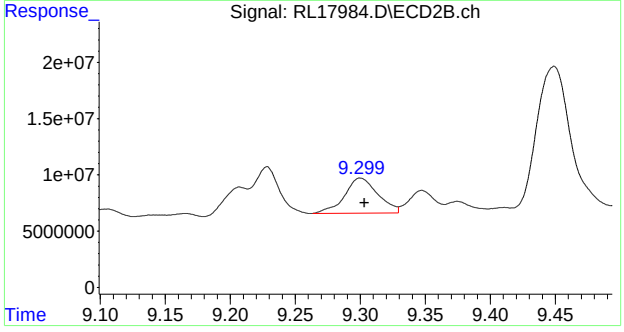
#1 Tetrachloro-m-xylene

R.T.: 4.321 min
Delta R.T.: -0.002 min
Response: 681752568
Conc: 4.53 ppb m



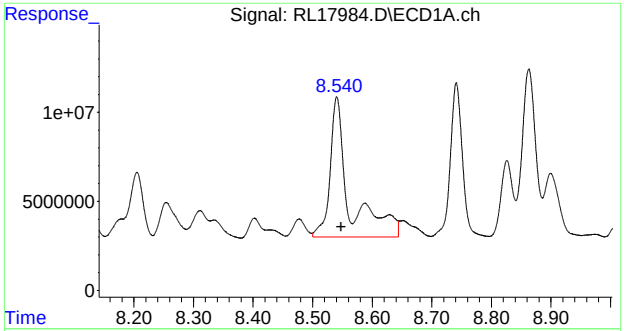
#33 AR1262-C

R.T.: 8.205 min
Delta R.T.: -0.008 min
Response: 55703025
Conc: 4.75 PPB m



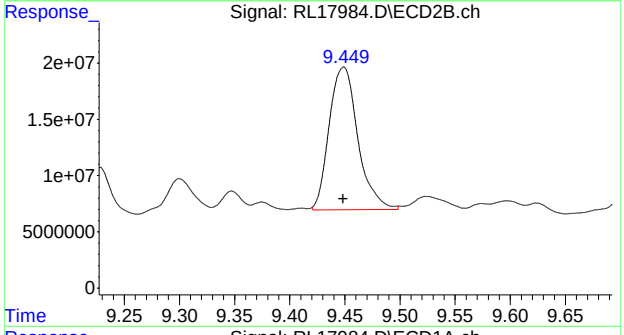
#33 AR1262-C

R.T.: 9.299 min
Delta R.T.: -0.004 min
Response: 55660553
Conc: 5.68 PPB m



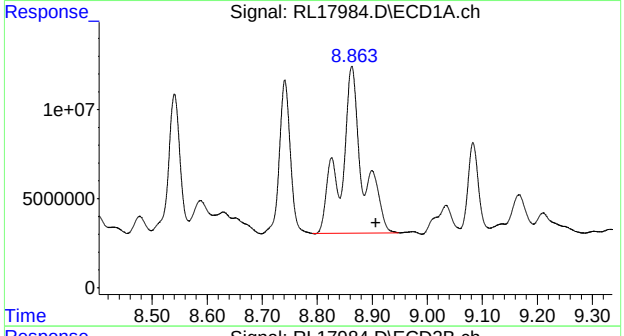
#34 AR1262-D

R.T.: 8.540 min
Delta R.T.: -0.008 min
Response: 175066546
Conc: 6.36 PPB m



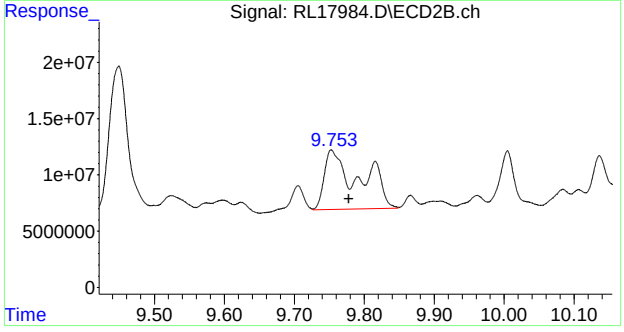
#34 AR1262-D

R.T.: 9.449 min
Delta R.T.: 0.000 min
Response: 229833382
Conc: 11.02 PPB m



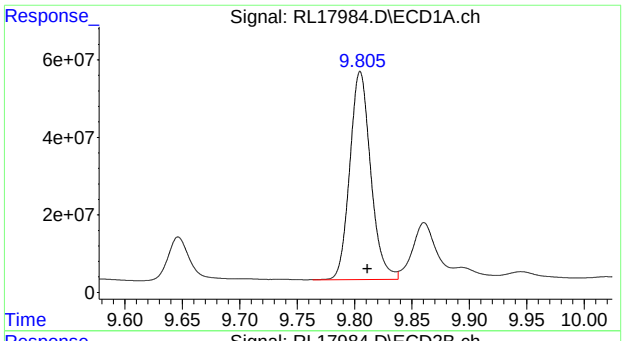
#35 AR1262-E

R.T.: 8.863 min
Delta R.T.: -0.044 min
Response: 259106007
Conc: 9.05 PPB m



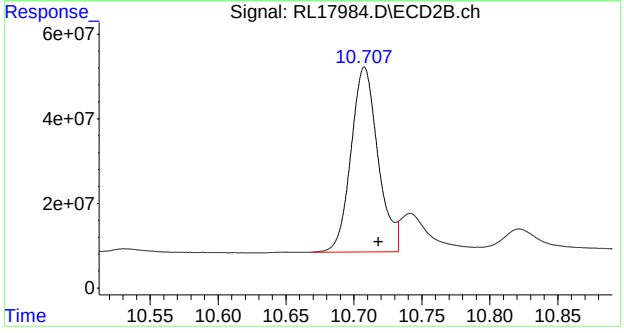
#35 AR1262-E

R.T.: 9.753 min
Delta R.T.: -0.025 min
Response: 183647292
Conc: 8.39 PPB m



#51 Decachlorobiphenyl

R.T.: 9.805 min
Delta R.T.: -0.007 min
Response: 682400598
Conc: 4.65 ppb m



#51 Decachlorobiphenyl

R.T.: 10.707 min
Delta R.T.: -0.011 min
Response: 605655202
Conc: 5.40 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 11:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17985.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 05:42 am
Operator : christp
Sample : jd91204-10 m
Misc : op55762,grl399,5.4,,,10,1
ALS Vial : 64 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 13:38:24 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1)	S Tetrachlo...	3.915	4.320	708.0E6	613.4E6	3.248m	4.074m#
	Spiked Amount 40.000			Recovery	=	8.12%	10.18%
51)	S Decachlor...	9.804	10.709	526.4E6	464.5E6	3.586m	4.144m
	Spiked Amount 40.000			Recovery	=	8.96%	10.36%
	Target Compounds						

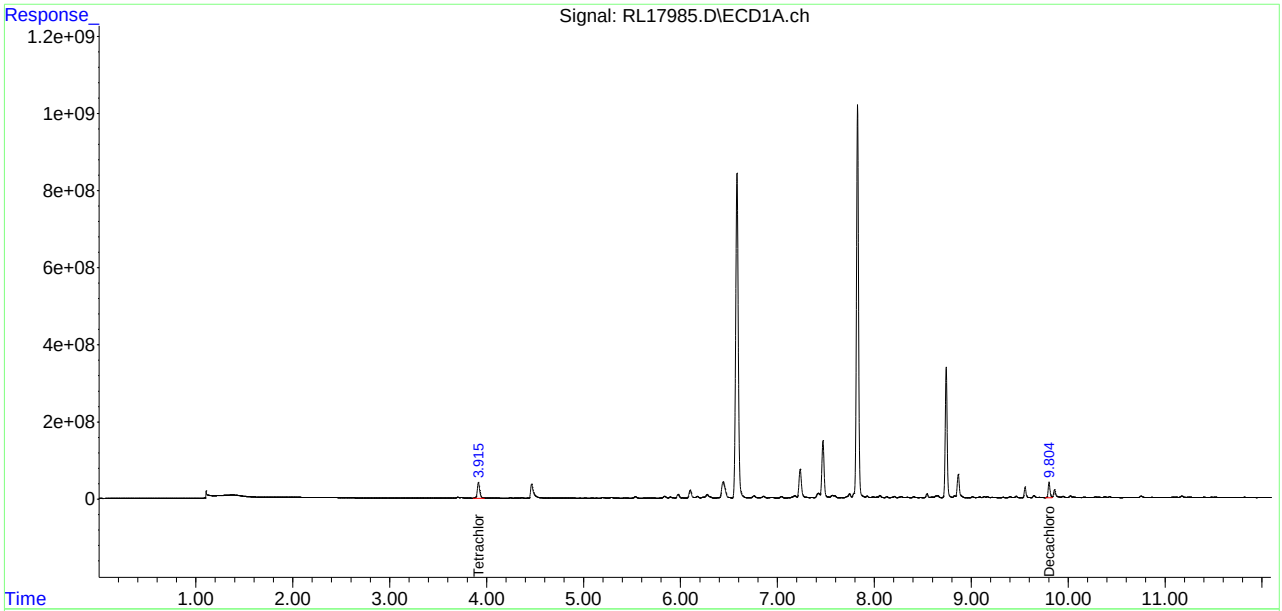
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

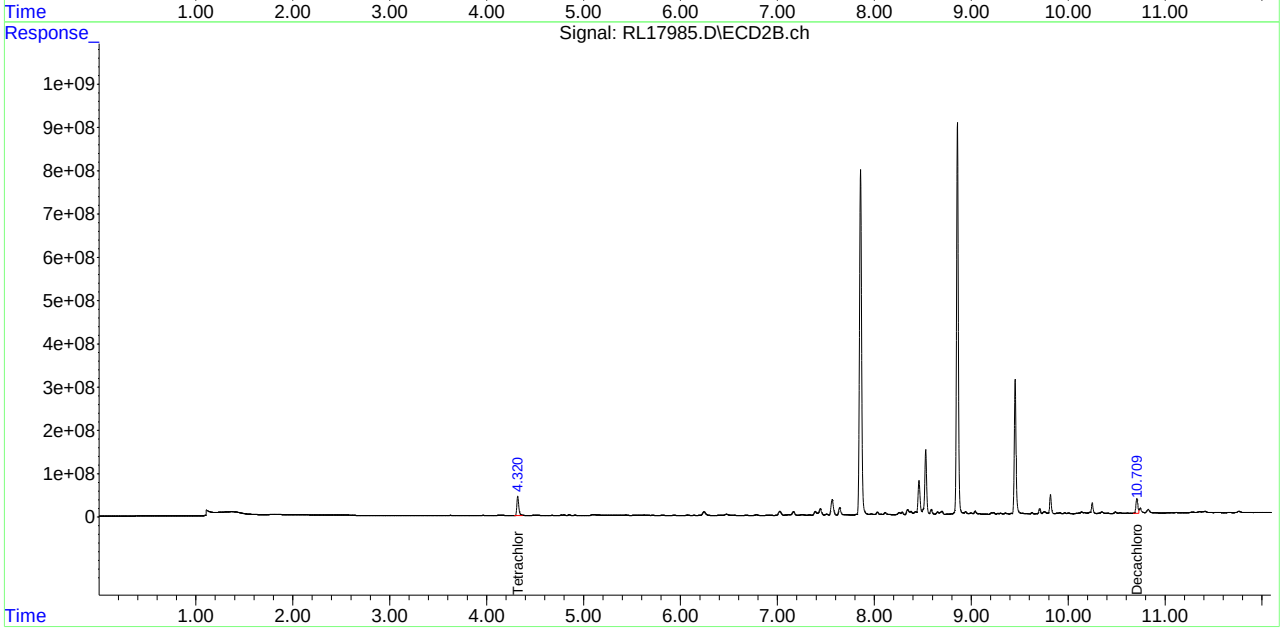
Quantitation Report (QT Reviewed)

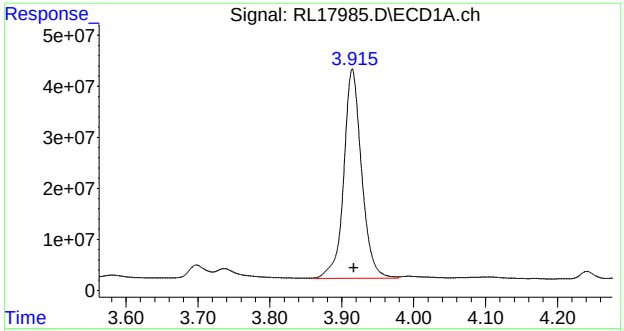
Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17985.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 05:42 am
Operator : christp
Sample : jd91204-10 m
Misc : op55762,grl399,5.4,,,10,1
ALS Vial : 64 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 13:38:24 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

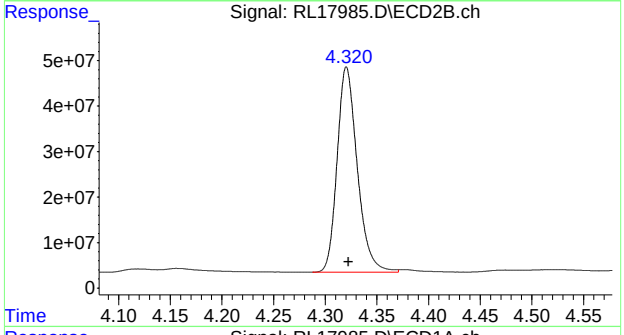






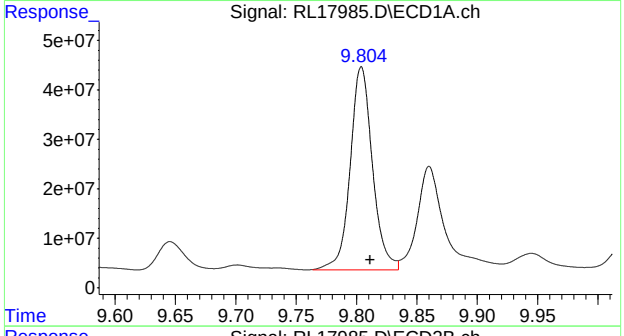
#1 Tetrachloro-m-xylene

R.T.: 3.915 min
Delta R.T.: -0.002 min
Response: 707991926
Conc: 3.25 ppb m



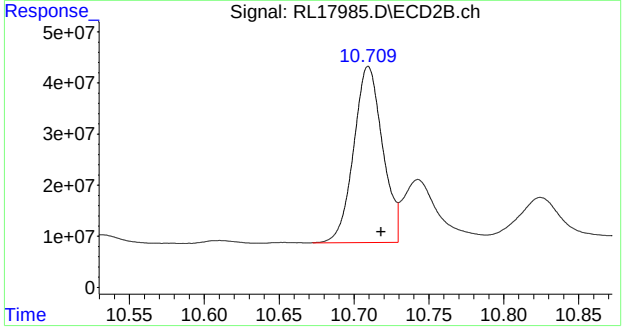
#1 Tetrachloro-m-xylene

R.T.: 4.320 min
Delta R.T.: -0.002 min
Response: 613372513
Conc: 4.07 ppb m



#51 Decachlorobiphenyl

R.T.: 9.804 min
Delta R.T.: -0.007 min
Response: 526425969
Conc: 3.59 ppb m



#51 Decachlorobiphenyl

R.T.: 10.709 min
Delta R.T.: -0.009 min
Response: 464471057
Conc: 4.14 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 11:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17986.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 05:59 am
Operator : christp
Sample : jd91204-11 m
Misc : op55762,grl399,5.3,,,10,1
ALS Vial : 65 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 13:44:17 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.913	4.319	703.2E6	599.7E6	3.226m	3.983m
	Spiked Amount 40.000			Recovery	=	8.06%	9.96%
51) S	Decachlor...	9.805	10.710	1010.8E6	864.7E6	6.885m	7.715m
	Spiked Amount 40.000			Recovery	=	17.21%	19.29%
	Target Compounds						
33)	AR1262-C	8.203	9.303	52152997	30974186	4.443m	3.160m#
34)	AR1262-D	8.540	9.447	114.9E6	131.1E6	4.177m	6.284m#
35)	AR1262-E	8.860	9.752	264.1E6	186.9E6	9.223m	8.543m

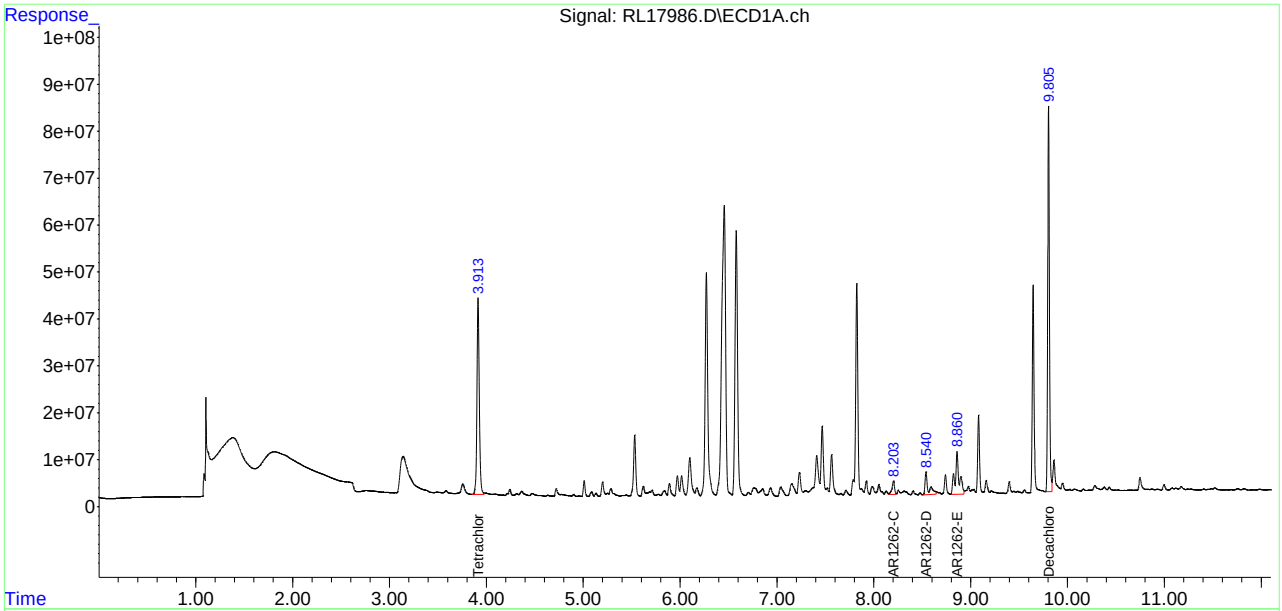
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

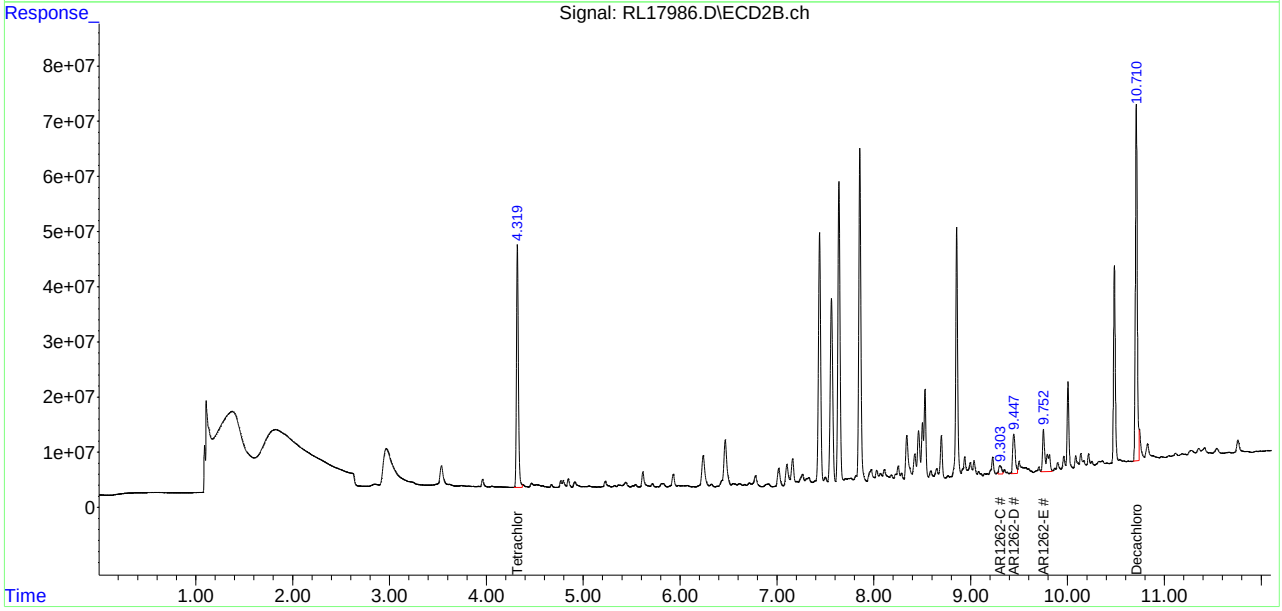
Quantitation Report (QT Reviewed)

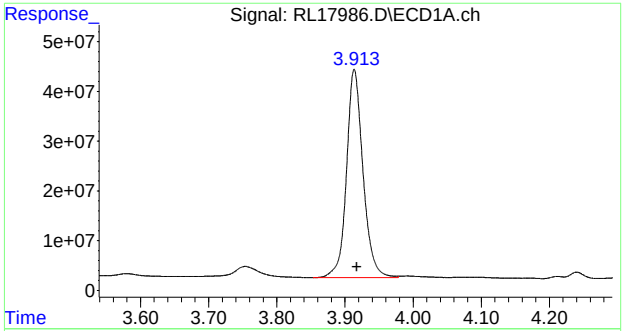
Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17986.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 05:59 am
Operator : christp
Sample : jd91204-11 m
Misc : op55762,grl399,5.3,,,10,1
ALS Vial : 65 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 13:44:17 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

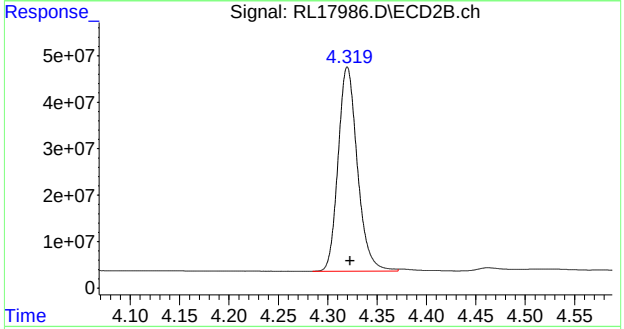






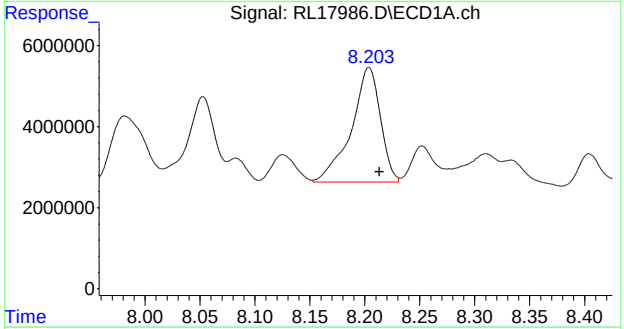
#1 Tetrachloro-m-xylene

R.T.: 3.913 min
Delta R.T.: -0.004 min
Response: 703200860
Conc: 3.23 ppb m



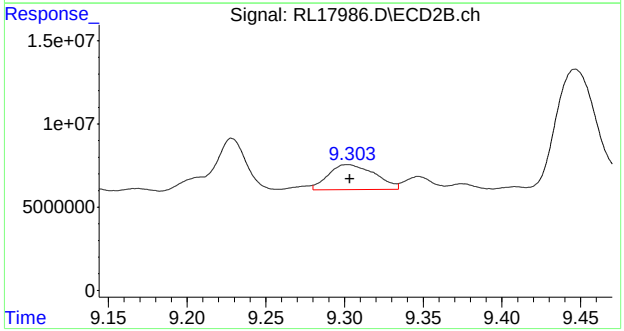
#1 Tetrachloro-m-xylene

R.T.: 4.319 min
Delta R.T.: -0.003 min
Response: 599670889
Conc: 3.98 ppb m



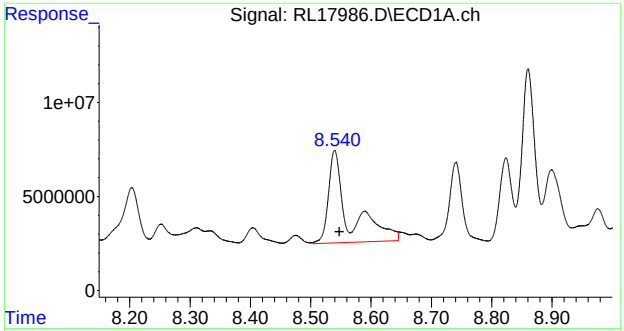
#33 AR1262-C

R.T.: 8.203 min
Delta R.T.: -0.010 min
Response: 52152997
Conc: 4.44 PPB m



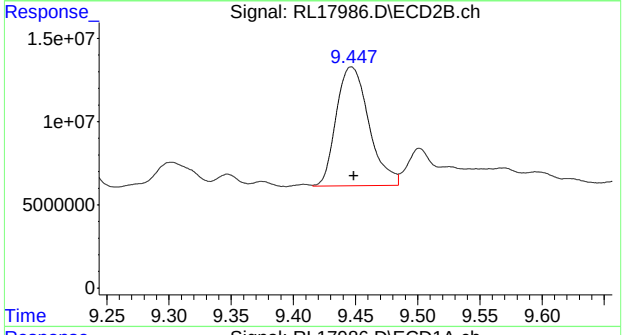
#33 AR1262-C

R.T.: 9.303 min
Delta R.T.: 0.000 min
Response: 30974186
Conc: 3.16 PPB m



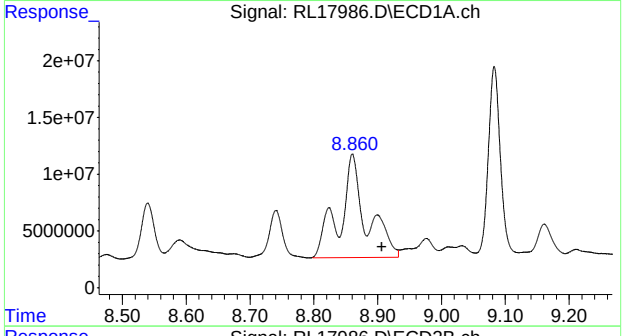
#34 AR1262-D

R.T.: 8.540 min
Delta R.T.: -0.008 min
Response: 114928436
Conc: 4.18 PPB m



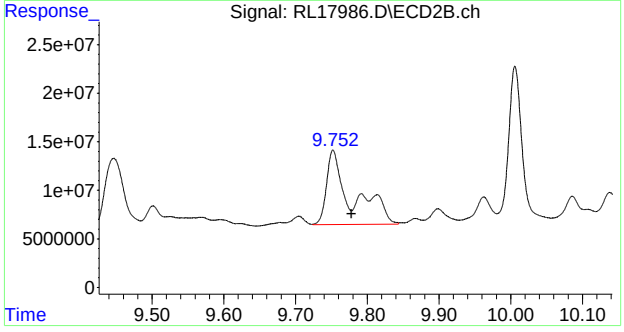
#34 AR1262-D

R.T.: 9.447 min
Delta R.T.: -0.002 min
Response: 131071668
Conc: 6.28 PPB m



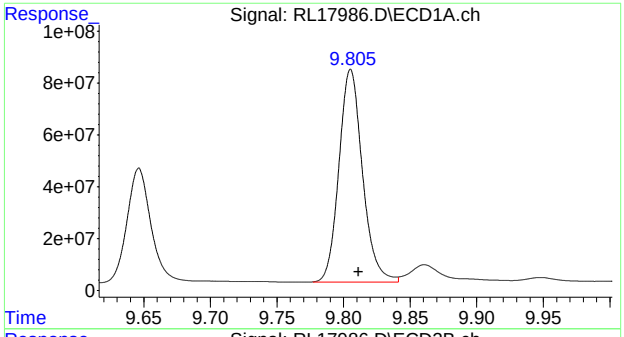
#35 AR1262-E

R.T.: 8.860 min
Delta R.T.: -0.047 min
Response: 264121716
Conc: 9.22 PPB m



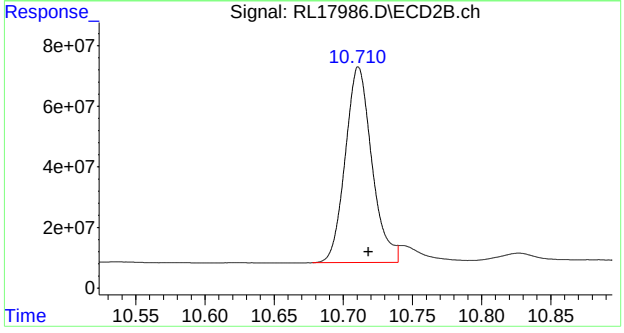
#35 AR1262-E

R.T.: 9.752 min
Delta R.T.: -0.026 min
Response: 186924790
Conc: 8.54 PPB m



#51 Decachlorobiphenyl

R.T.: 9.805 min
Delta R.T.: -0.006 min
Response: 1010816821
Conc: 6.89 ppb m



#51 Decachlorobiphenyl

R.T.: 10.710 min
Delta R.T.: -0.008 min
Response: 864654088
Conc: 7.71 ppb m

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
07/01/24 12:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl399\
Data File : RL17987.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 06:15 am
Operator : christp
Sample : jd91204-12 m
Misc : op55762,grl399,5.3,,,10,1
ALS Vial : 66 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 12:30:33 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.915	4.320	698.7E6	587.4E6	3.206m	3.902m
	Spiked Amount 40.000			Recovery	=	8.02%	9.75%
51) S	Decachlor...	9.805	10.709	479.7E6	422.4E6	3.267m	3.769m
	Spiked Amount 40.000			Recovery	=	8.17%	9.42%
	Target Compounds						
32)	AR1262-B	7.924	8.940	49321715	53707858	3.386m	4.251m#
33)	AR1262-C	8.205	9.298	47625956	37299073	4.058m	3.805m
34)	AR1262-D	8.540	9.452	67079367	502.1E6	2.438m	24.071m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.1.36

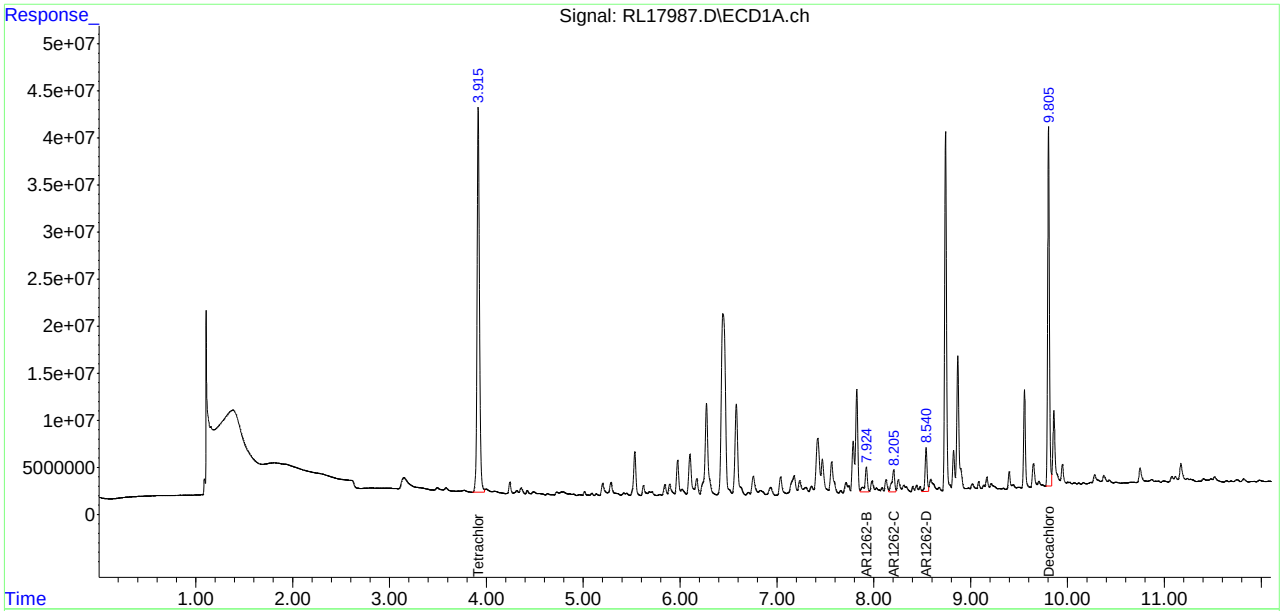
9

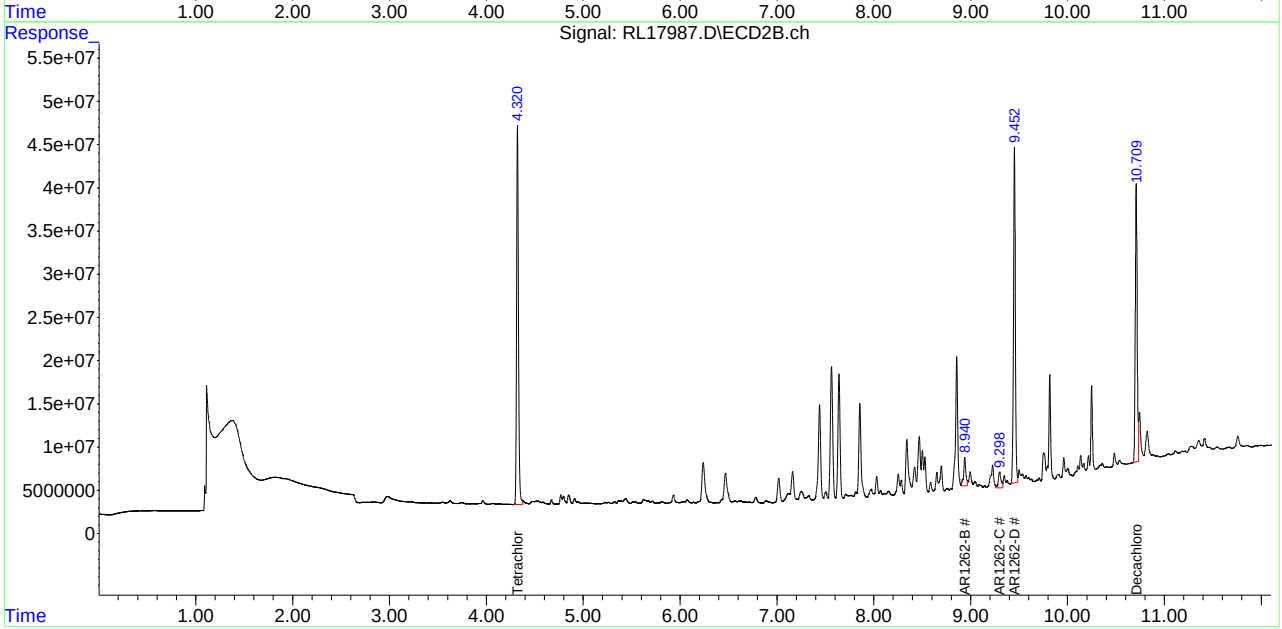
Quantitation Report (QT Reviewed)

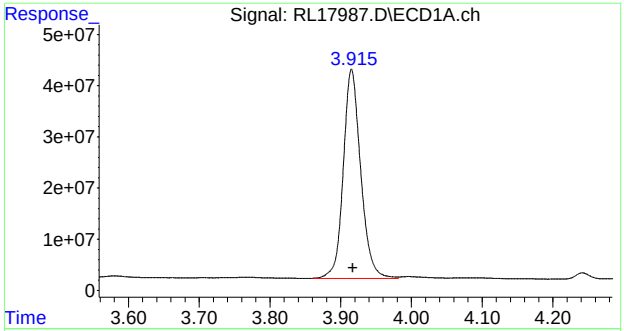
Data Path : C:\msdchem\1\data\grl399\
Data File : RL17987.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 06:15 am
Operator : christp
Sample : jd91204-12 m
Misc : op55762,grl399,5.3,,,10,1
ALS Vial : 66 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 12:30:33 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

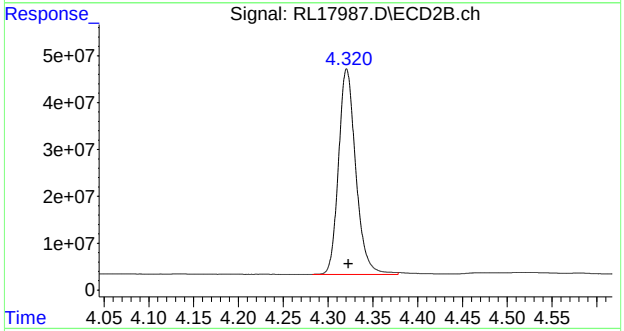






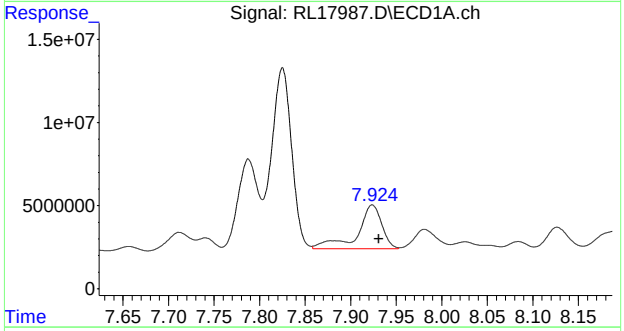
#1 Tetrachloro-m-xylene

R.T.: 3.915 min
Delta R.T.: -0.002 min
Response: 698743415
Conc: 3.21 ppb m



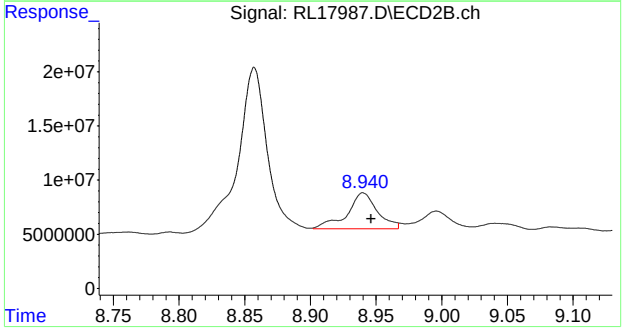
#1 Tetrachloro-m-xylene

R.T.: 4.320 min
Delta R.T.: -0.002 min
Response: 587437077
Conc: 3.90 ppb m



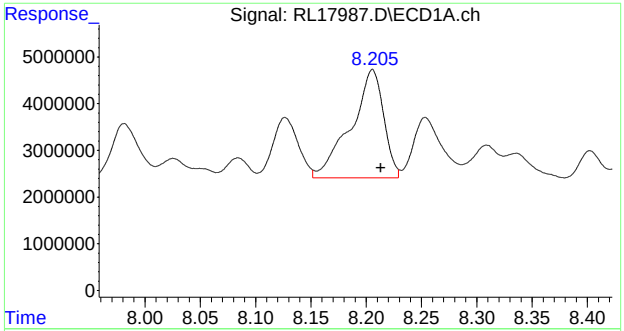
#32 AR1262-B

R.T.: 7.924 min
Delta R.T.: -0.007 min
Response: 49321715
Conc: 3.39 PPB m



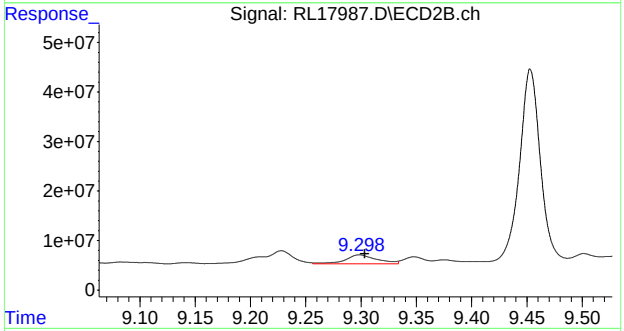
#32 AR1262-B

R.T.: 8.940 min
Delta R.T.: -0.007 min
Response: 53707858
Conc: 4.25 PPB m



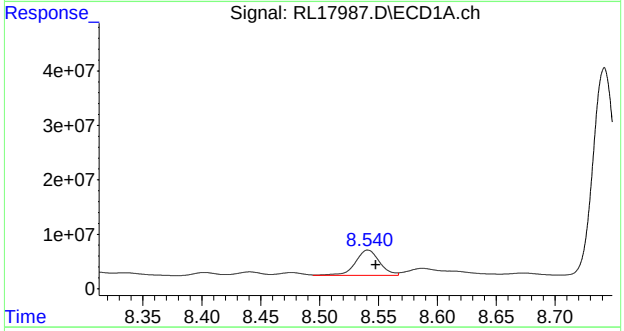
#33 AR1262-C

R.T.: 8.205 min
Delta R.T.: -0.008 min
Response: 47625956
Conc: 4.06 PPB m



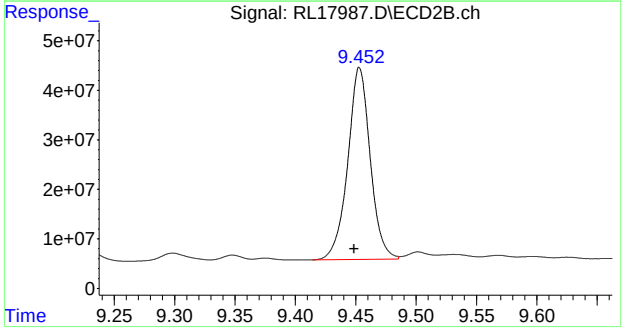
#33 AR1262-C

R.T.: 9.298 min
Delta R.T.: -0.005 min
Response: 37299073
Conc: 3.80 PPB m



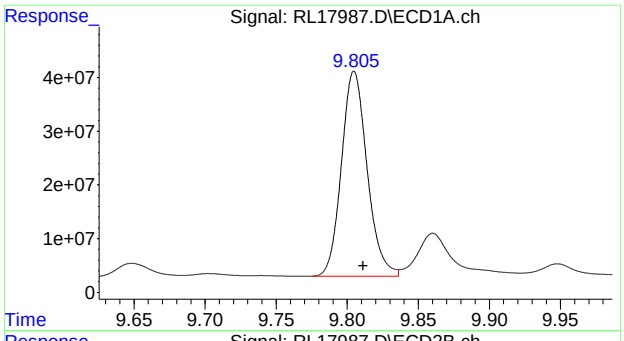
#34 AR1262-D

R.T.: 8.540 min
Delta R.T.: -0.007 min
Response: 67079367
Conc: 2.44 PPB m



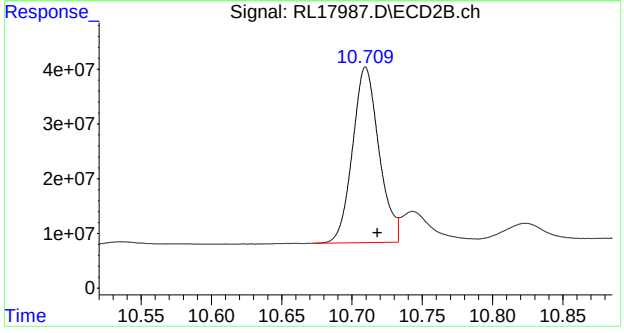
#34 AR1262-D

R.T.: 9.452 min
Delta R.T.: 0.004 min
Response: 502103455
Conc: 24.07 PPB m



#51 Decachlorobiphenyl

R.T.: 9.805 min
Delta R.T.: -0.007 min
Response: 479709818
Conc: 3.27 ppb m



#51 Decachlorobiphenyl

R.T.: 10.709 min
Delta R.T.: -0.009 min
Response: 422398328
Conc: 3.77 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 12:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17988.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 06:32 am
Operator : christp
Sample : jd91204-13 m
Misc : op55762,grl399,5.2,,,10,1
ALS Vial : 67 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 13:56:01 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.914	4.320	713.4E6	592.8E6	3.273m	3.937m
	Spiked Amount 40.000			Recovery	=	8.18%	9.84%
51) S	Decachlor...	9.805	10.710	484.9E6	419.9E6	3.303m	3.746m
	Spiked Amount 40.000			Recovery	=	8.26%	9.37%
	Target Compounds						
24)	AR1254-A	5.894	7.158	12330648	18481858	1.857m	3.188m#
27)	AR1254-D	6.758	8.030	29209529	33823852	2.317m	3.153m#
28)	AR1254-E	7.235	8.285	11774343	18195703	1.211m	2.131m#

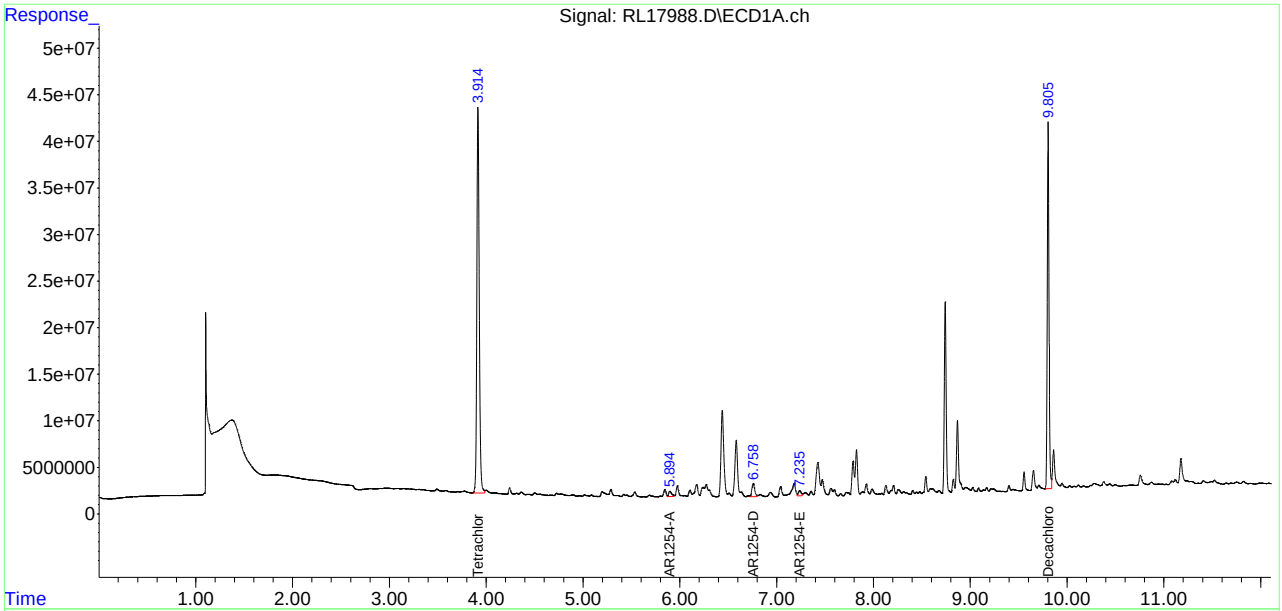
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

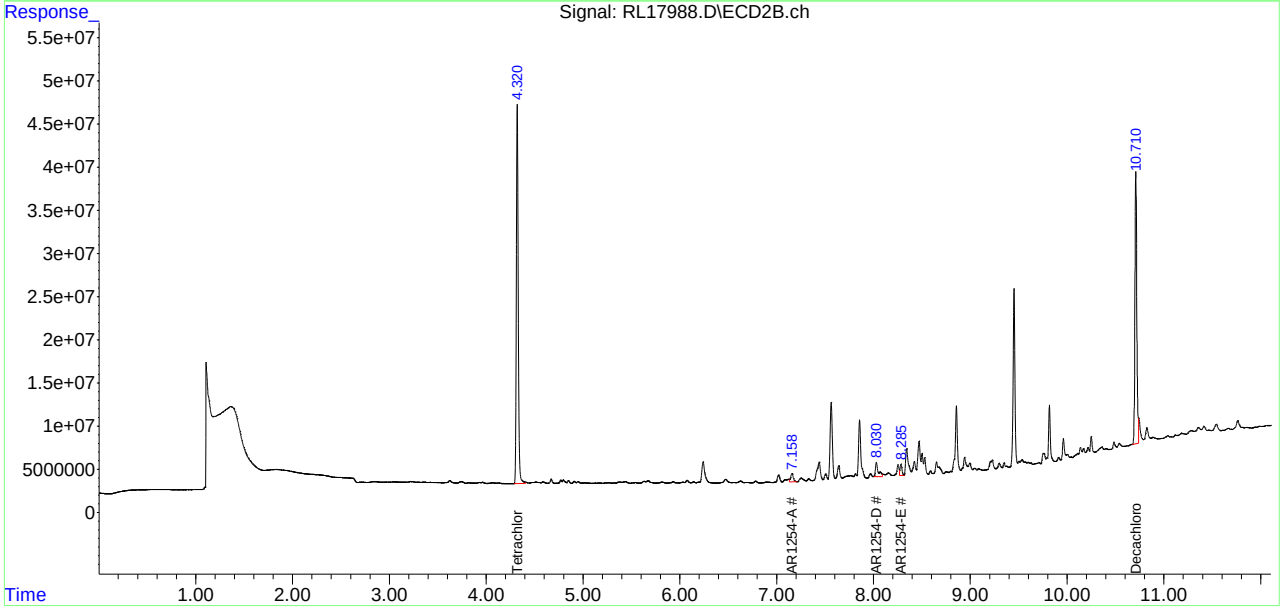
Quantitation Report (QT Reviewed)

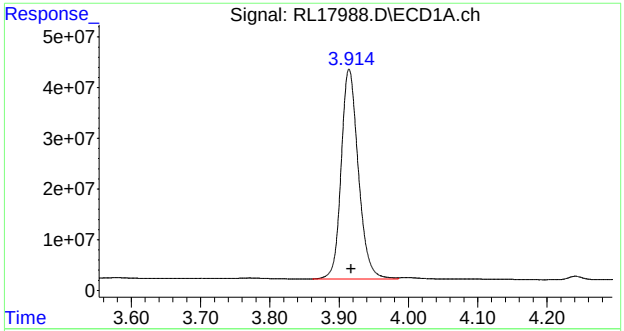
Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17988.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 06:32 am
Operator : christp
Sample : jd91204-13 m
Misc : op55762,grl399,5.2,,,10,1
ALS Vial : 67 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 13:56:01 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

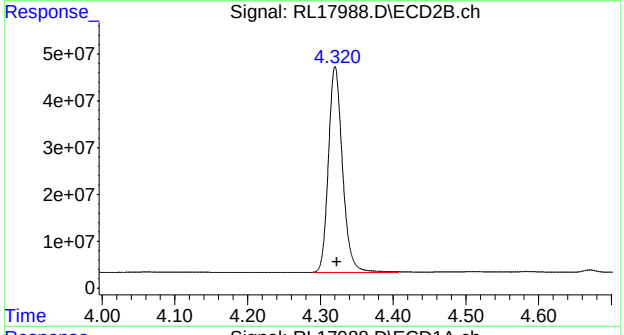






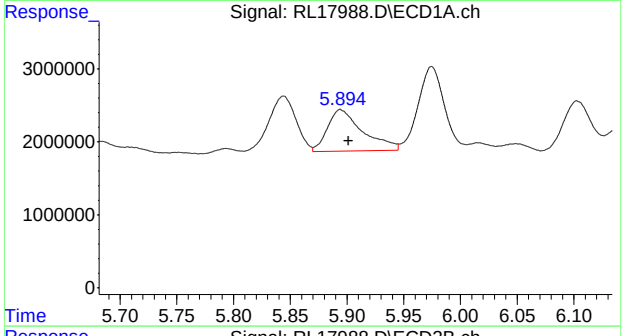
#1 Tetrachloro-m-xylene

R.T.: 3.914 min
Delta R.T.: -0.003 min
Response: 713391335
Conc: 3.27 ppb m



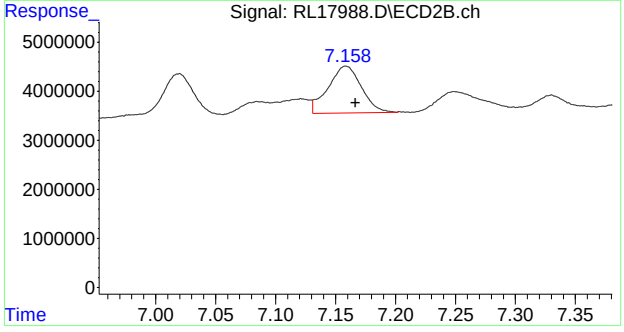
#1 Tetrachloro-m-xylene

R.T.: 4.320 min
Delta R.T.: -0.003 min
Response: 592796275
Conc: 3.94 ppb m



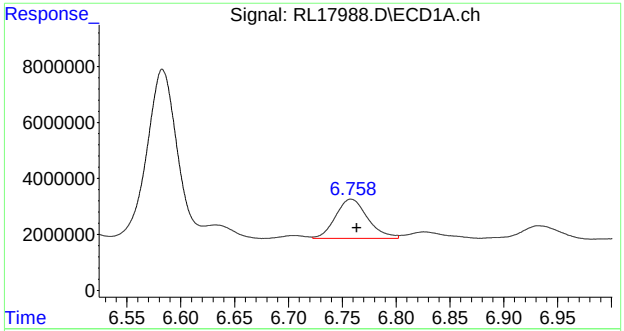
#24 AR1254-A

R.T.: 5.894 min
Delta R.T.: -0.008 min
Response: 12330648
Conc: 1.86 PPB m



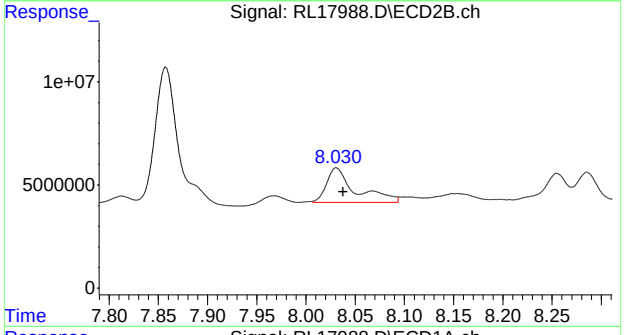
#24 AR1254-A

R.T.: 7.158 min
Delta R.T.: -0.008 min
Response: 18481858
Conc: 3.19 PPB m



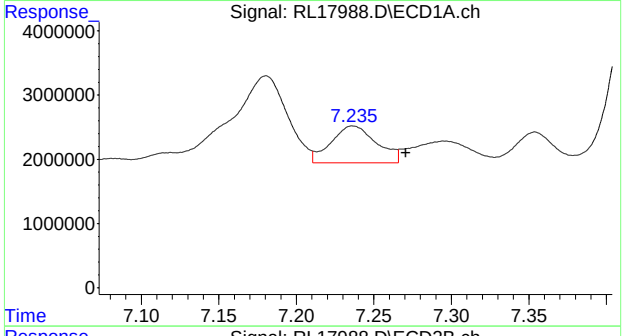
#27 AR1254-D

R.T.: 6.758 min
Delta R.T.: -0.006 min
Response: 29209529
Conc: 2.32 PPB m



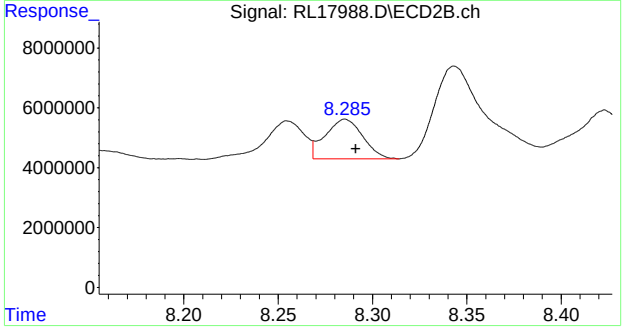
#27 AR1254-D

R.T.: 8.030 min
Delta R.T.: -0.007 min
Response: 33823852
Conc: 3.15 PPB m



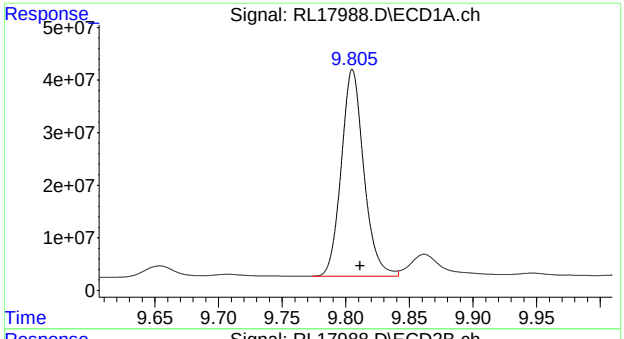
#28 AR1254-E

R.T.: 7.235 min
Delta R.T.: -0.035 min
Response: 11774343
Conc: 1.21 PPB m



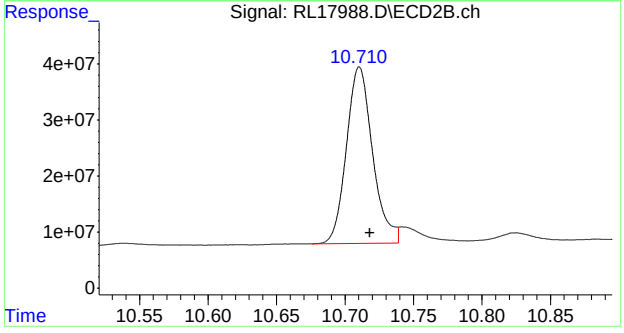
#28 AR1254-E

R.T.: 8.285 min
Delta R.T.: -0.006 min
Response: 18195703
Conc: 2.13 PPB m



#51 Decachlorobiphenyl

R.T.: 9.805 min
Delta R.T.: -0.006 min
Response: 484902900
Conc: 3.30 ppb m



#51 Decachlorobiphenyl

R.T.: 10.710 min
Delta R.T.: -0.008 min
Response: 419872090
Conc: 3.75 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 12:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl399\
Data File : RL17993.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 07:56 am
Operator : christp
Sample : jd91204-14 m (Sig #1); jd91204-14 (Sig #2)
Misc : op55762,grl399,5.2,,,10,1
ALS Vial : 69 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 10:11:26 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.914	4.319	684.8E6	588.7E6	3.142m	3.910m
	Spiked Amount 40.000			Recovery	=	7.85%	9.78%
51) S	Decachlor...	9.806	10.715	475.5E6	419.4E6	3.239m	3.742m
	Spiked Amount 40.000			Recovery	=	8.10%	9.35%
	Target Compounds						
24)	AR1254-A	5.842f	7.156	288.4E6	340.7E6	43.429m	58.762m#
27)	AR1254-D	6.754	8.030	697.5E6	749.2E6	55.336m	69.838m#
28)	AR1254-E	7.179f	8.284	445.7E6	442.0E6	45.821m	51.778m
47)	AR1260-B	7.923	8.939	96055328	128.4E6	9.475m	15.005m#
49)	AR1260-D	8.540	9.440	252.9E6	419.6E6	11.592m	22.411m#
50)	AR1260-E	8.825	9.768	356.2E6	232.4E6	15.951m	13.344

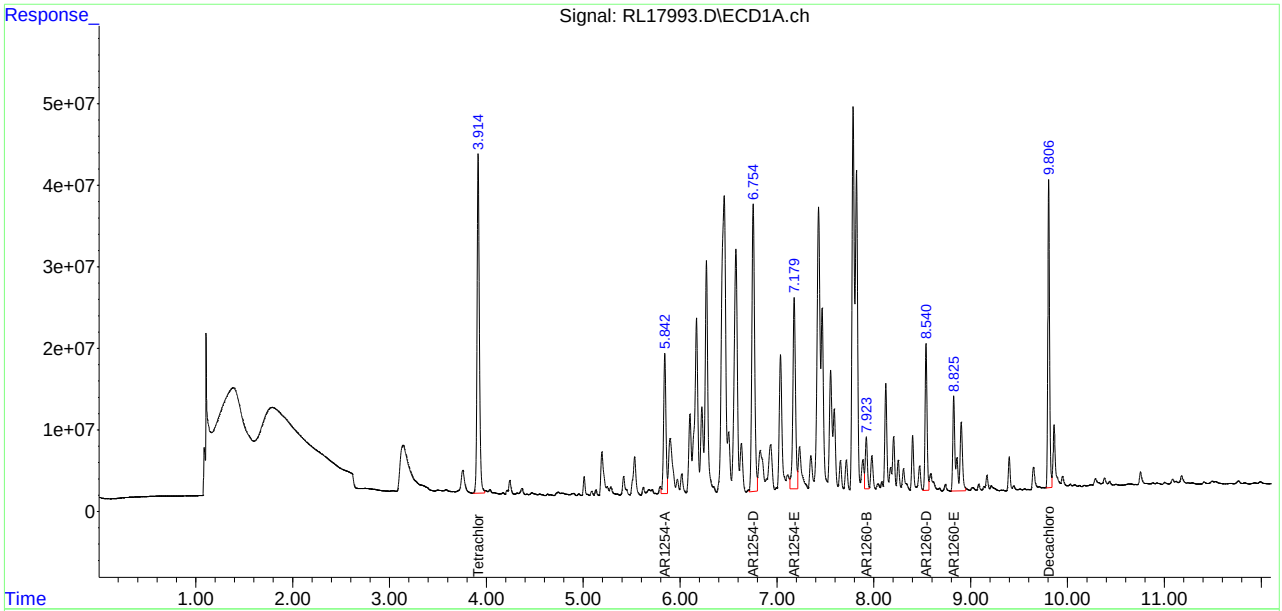
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

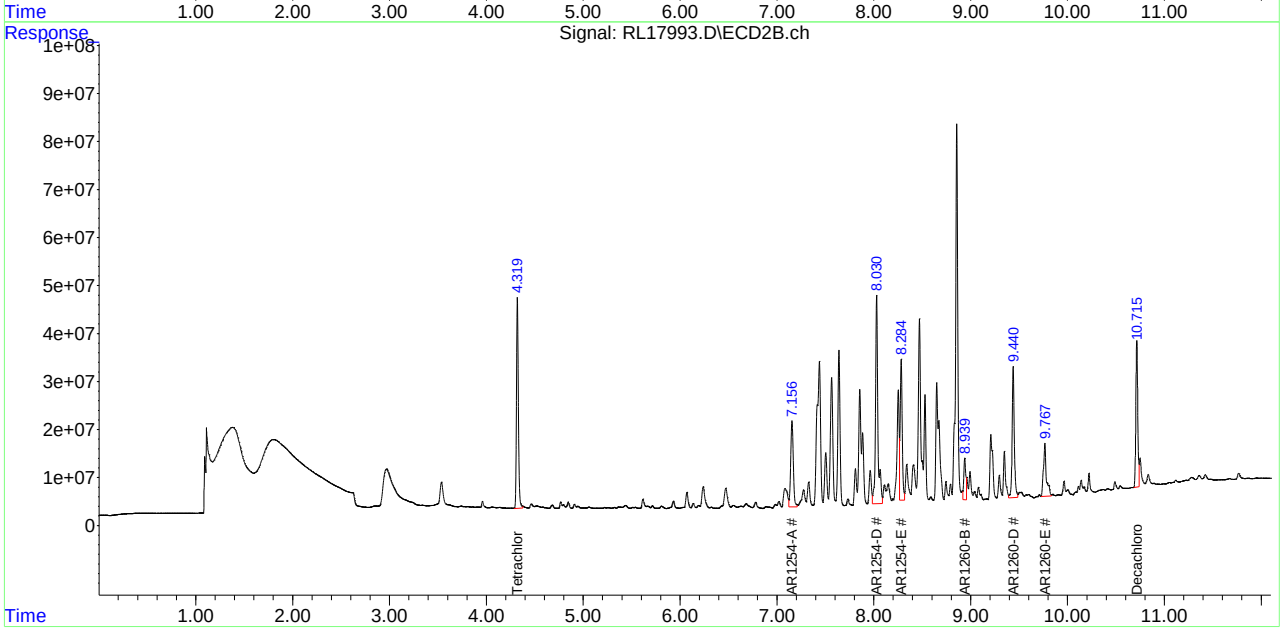
Quantitation Report (QT Reviewed)

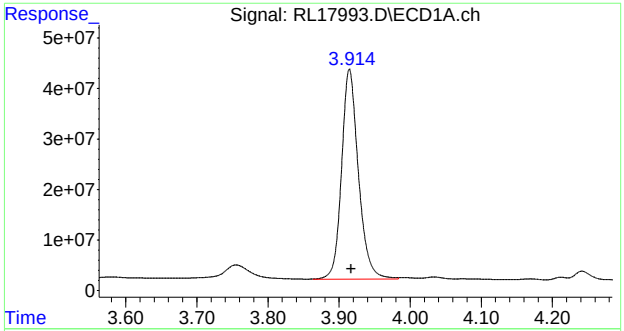
Data Path : C:\msdchem\1\data\grl399\
Data File : RL17993.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 07:56 am
Operator : christp
Sample : jd91204-14 m (Sig #1); jd91204-14 (Sig #2)
Misc : op55762,grl399,5.2,,,10,1
ALS Vial : 69 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 10:11:26 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

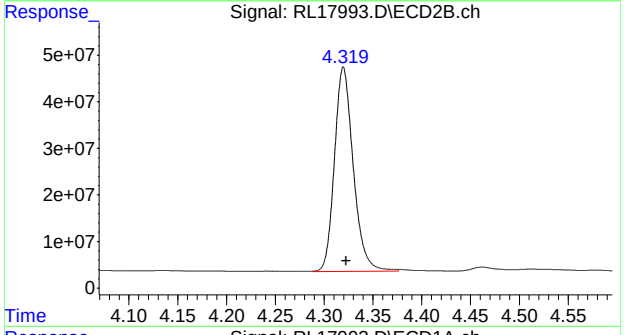






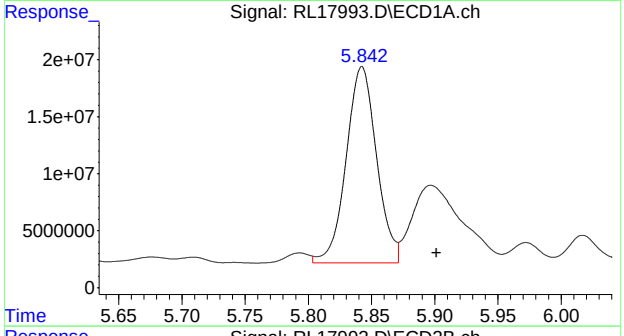
#1 Tetrachloro-m-xylene

R.T.: 3.914 min
Delta R.T.: -0.003 min
Response: 684787853
Conc: 3.14 ppb m



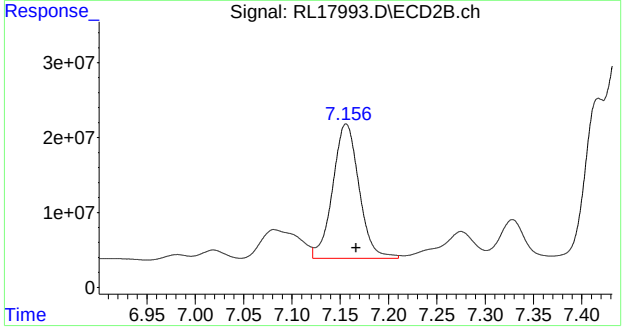
#1 Tetrachloro-m-xylene

R.T.: 4.319 min
Delta R.T.: -0.003 min
Response: 588687668
Conc: 3.91 ppb m



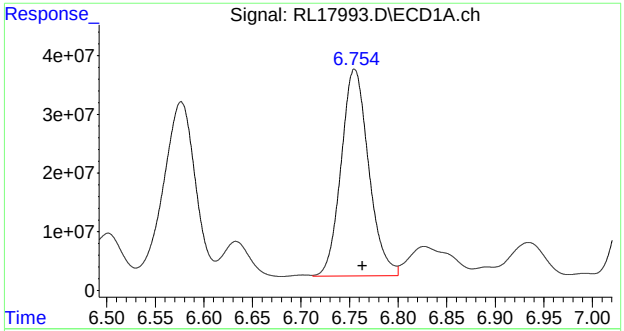
#24 AR1254-A

R.T.: 5.842 min
Delta R.T.: -0.059 min
Response: 288432469
Conc: 43.43 PPB m



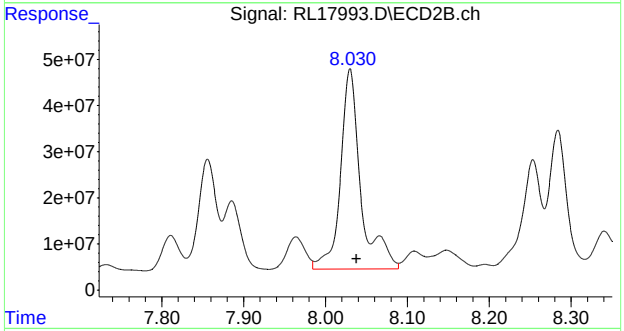
#24 AR1254-A

R.T.: 7.156 min
Delta R.T.: -0.011 min
Response: 340711800
Conc: 58.76 PPB m



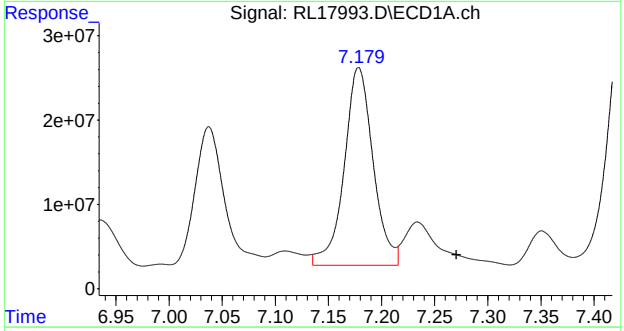
#27 AR1254-D

R.T.: 6.754 min
Delta R.T.: -0.009 min
Response: 697454255
Conc: 55.34 PPB m



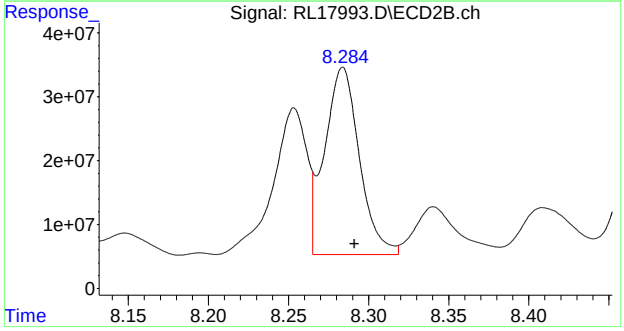
#27 AR1254-D

R.T.: 8.030 min
Delta R.T.: -0.007 min
Response: 749188759
Conc: 69.84 PPB m



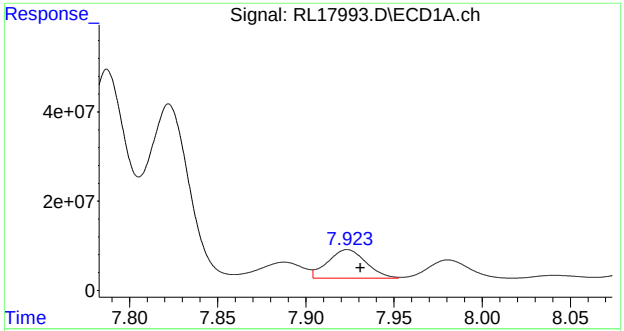
#28 AR1254-E

R.T.: 7.179 min
Delta R.T.: -0.092 min
Response: 445673288
Conc: 45.82 PPB m



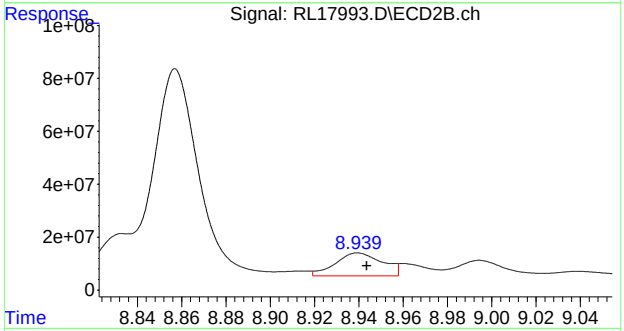
#28 AR1254-E

R.T.: 8.284 min
Delta R.T.: -0.007 min
Response: 442022195
Conc: 51.78 PPB m



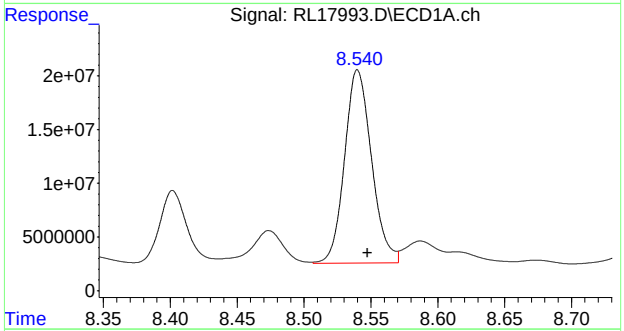
#47 AR1260-B

R.T.: 7.923 min
Delta R.T.: -0.007 min
Response: 96055328
Conc: 9.48 PPB m



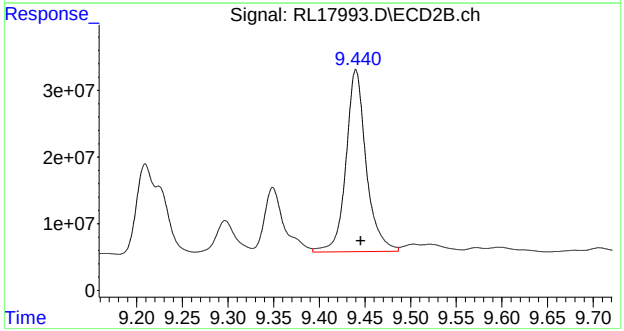
#47 AR1260-B

R.T.: 8.939 min
Delta R.T.: -0.005 min
Response: 128385050
Conc: 15.00 PPB m



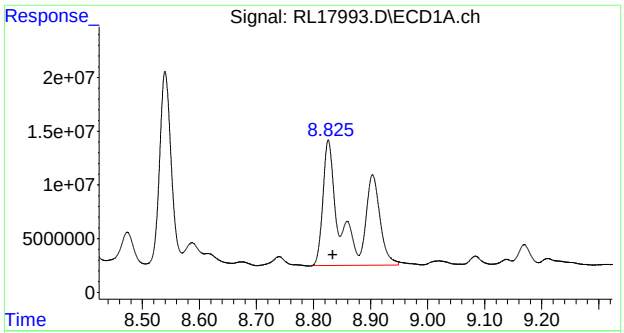
#49 AR1260-D

R.T.: 8.540 min
Delta R.T.: -0.008 min
Response: 252899943
Conc: 11.59 PPB m



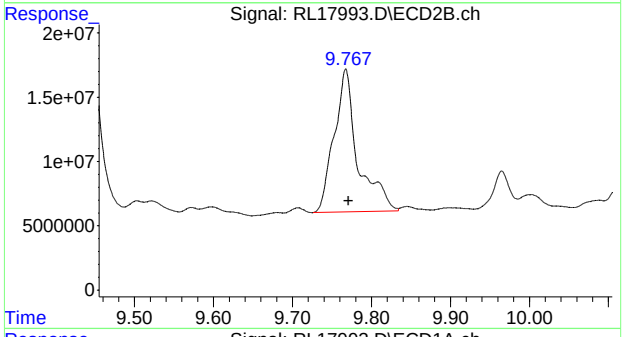
#49 AR1260-D

R.T.: 9.440 min
Delta R.T.: -0.006 min
Response: 419602064
Conc: 22.41 PPB m



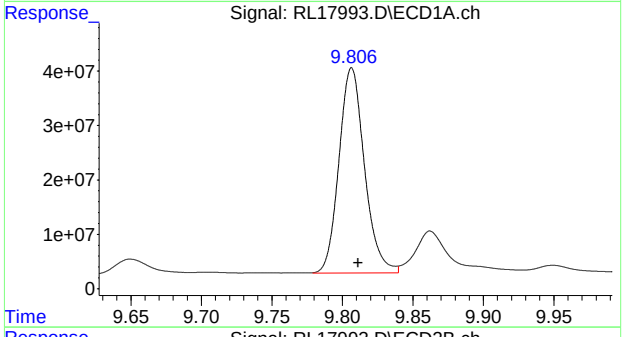
#50 AR1260-E

R.T.: 8.825 min
Delta R.T.: -0.008 min
Response: 356159137
Conc: 15.95 PPB m



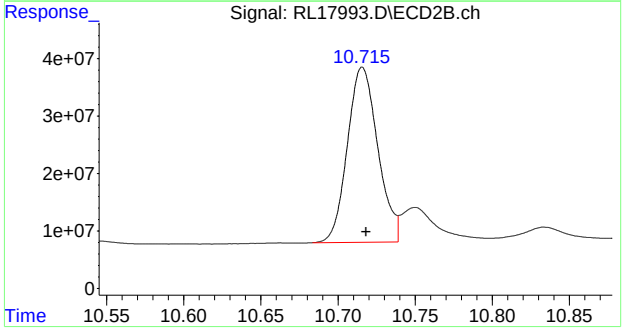
#50 AR1260-E

R.T.: 9.768 min
Delta R.T.: -0.003 min
Response: 232410322
Conc: 13.34 PPB



#51 Decachlorobiphenyl

R.T.: 9.806 min
Delta R.T.: -0.005 min
Response: 475484457
Conc: 3.24 ppb m



#51 Decachlorobiphenyl

R.T.: 10.715 min
Delta R.T.: -0.003 min
Response: 419417223
Conc: 3.74 ppb m

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
07/01/24 12:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl399\
Data File : RL17994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 08:13 am
Operator : christp
Sample : jd91204-15 m (Sig #1); jd91204-15 (Sig #2)
Misc : op55762,grl399,5.1,,,10,1
ALS Vial : 70 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 10:12:24 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.916	4.321	710.2E6	586.4E6	3.258	3.895m
Spiked Amount 40.000			Recovery	=	8.14%	9.74%
51) S Decachlor...	9.810	10.722	477.9E6	409.2E6	3.255m	3.651m
Spiked Amount 40.000			Recovery	=	8.14%	9.13%
Target Compounds						

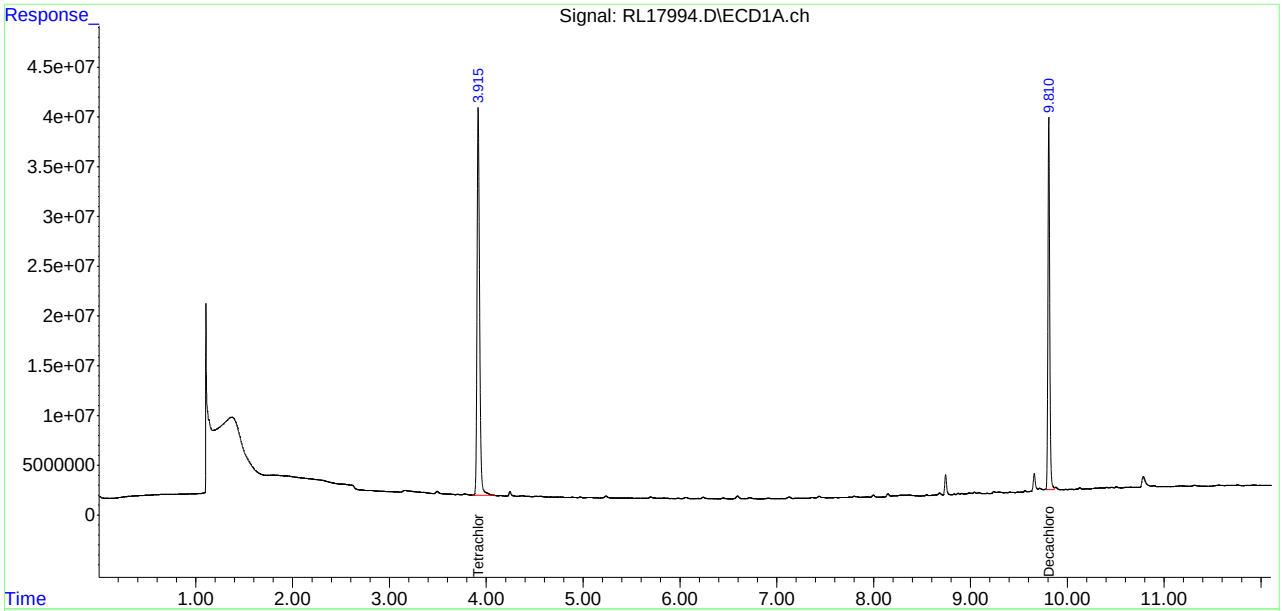
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

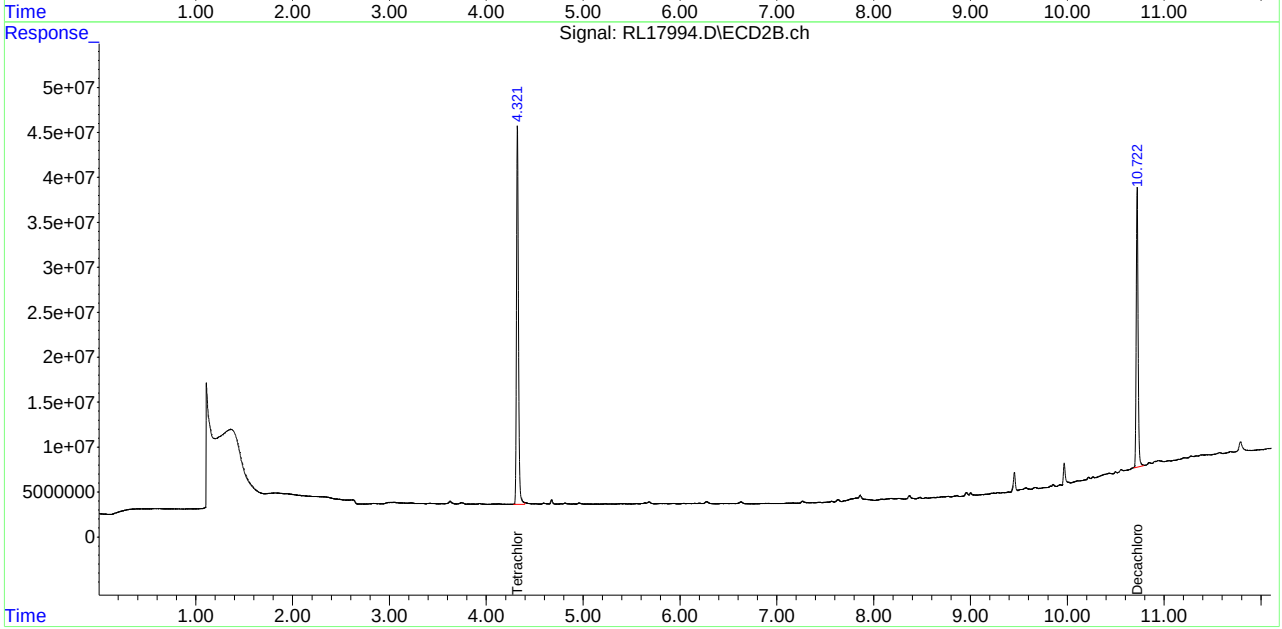
Quantitation Report (QT Reviewed)

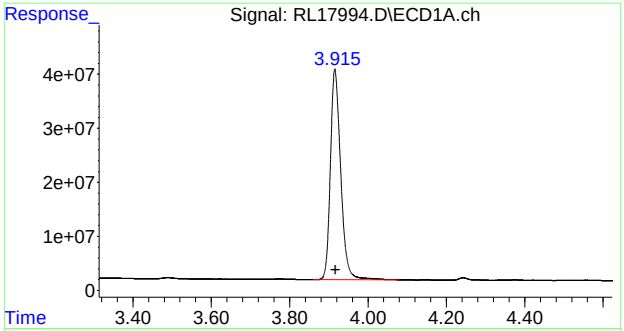
Data Path : C:\msdchem\1\data\grl399\
Data File : RL17994.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 08:13 am
Operator : christp
Sample : jd91204-15 m (Sig #1); jd91204-15 (Sig #2)
Misc : op55762,grl399,5.1,,,10,1
ALS Vial : 70 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 10:12:24 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

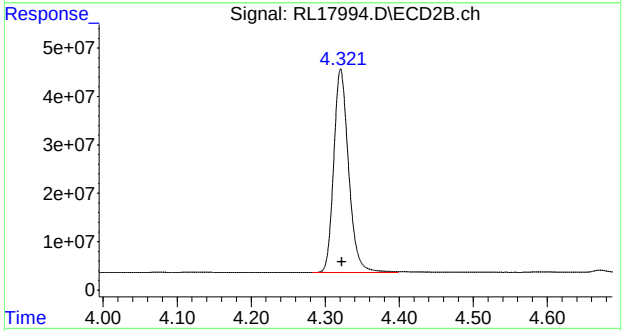






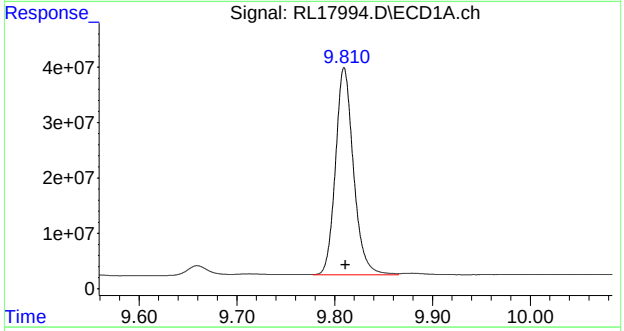
#1 Tetrachloro-m-xylene

R.T.: 3.916 min
Delta R.T.: -0.001 min
Response: 710191510
Conc: 3.26 ppb



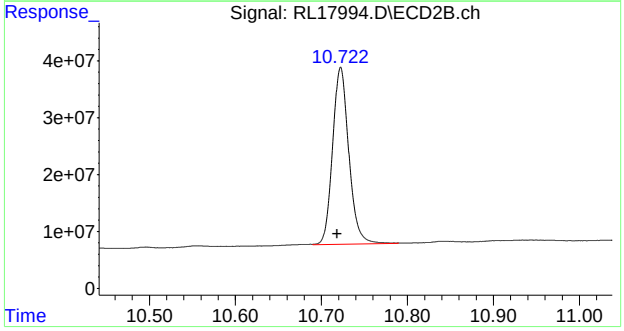
#1 Tetrachloro-m-xylene

R.T.: 4.321 min
Delta R.T.: -0.002 min
Response: 586409134
Conc: 3.90 ppb m



#51 Decachlorobiphenyl

R.T.: 9.810 min
Delta R.T.: -0.002 min
Response: 477874417
Conc: 3.25 ppb m



#51 Decachlorobiphenyl

R.T.: 10.722 min
Delta R.T.: 0.004 min
Response: 409156179
Conc: 3.65 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 12:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl399\
Data File : RL17995.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 08:30 am
Operator : christp
Sample : jd91204-16 m (Sig #1); jd91204-16 (Sig #2)
Misc : op55762,grl399,5.4,,,10,1
ALS Vial : 71 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 10:17:35 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.916	4.321	697.0E6	604.8E6	3.198m	4.017m#
	Spiked Amount 40.000			Recovery	=	7.99%	10.04%
51) S	Decachlor...	9.809	10.721	474.4E6	421.6E6	3.232m	3.761m
	Spiked Amount 40.000			Recovery	=	8.08%	9.40%
	Target Compounds						
24)	AR1254-A	5.844f	7.160	27386317	40969374	4.124m	7.066m#
27)	AR1254-D	6.757	8.031	49753827	47368680	3.947m	4.416m
28)	AR1254-E	7.297	8.284	26826275	33404682	2.758m	3.913m#
33)	AR1262-C	8.206	9.306	13381447	17651802	1.140m	1.801m#
34)	AR1262-D	8.541	9.453	50620469	95158989	1.840m	4.562m#
35)	AR1262-E	8.868	9.821	48989631	34707718	1.711m	1.586m

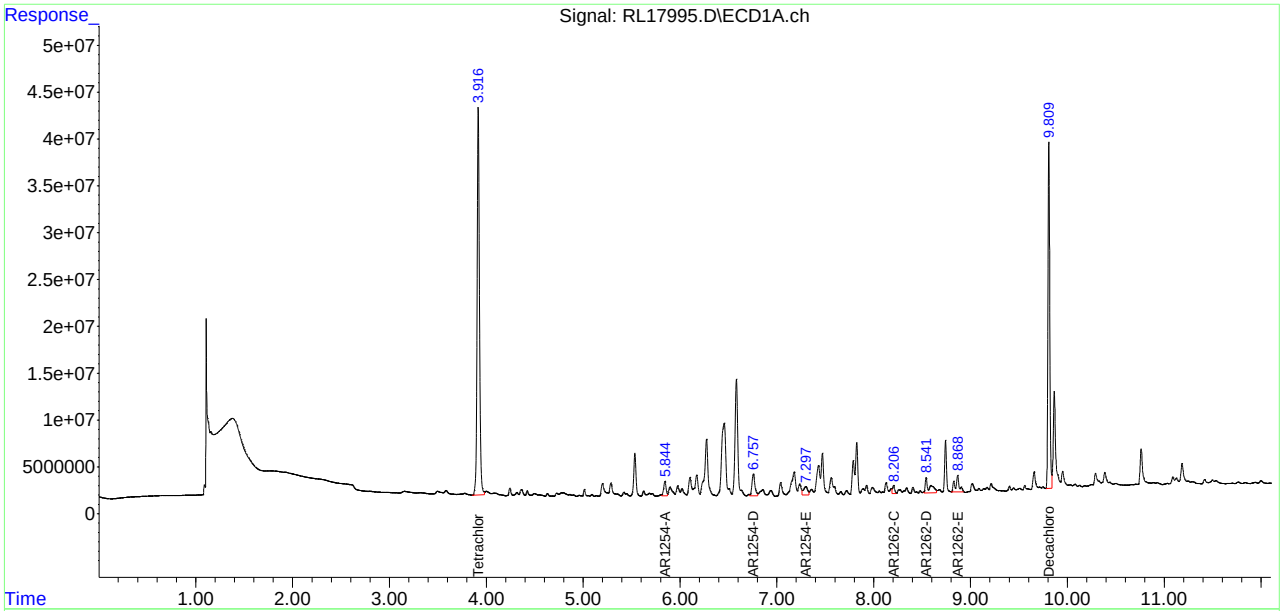
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

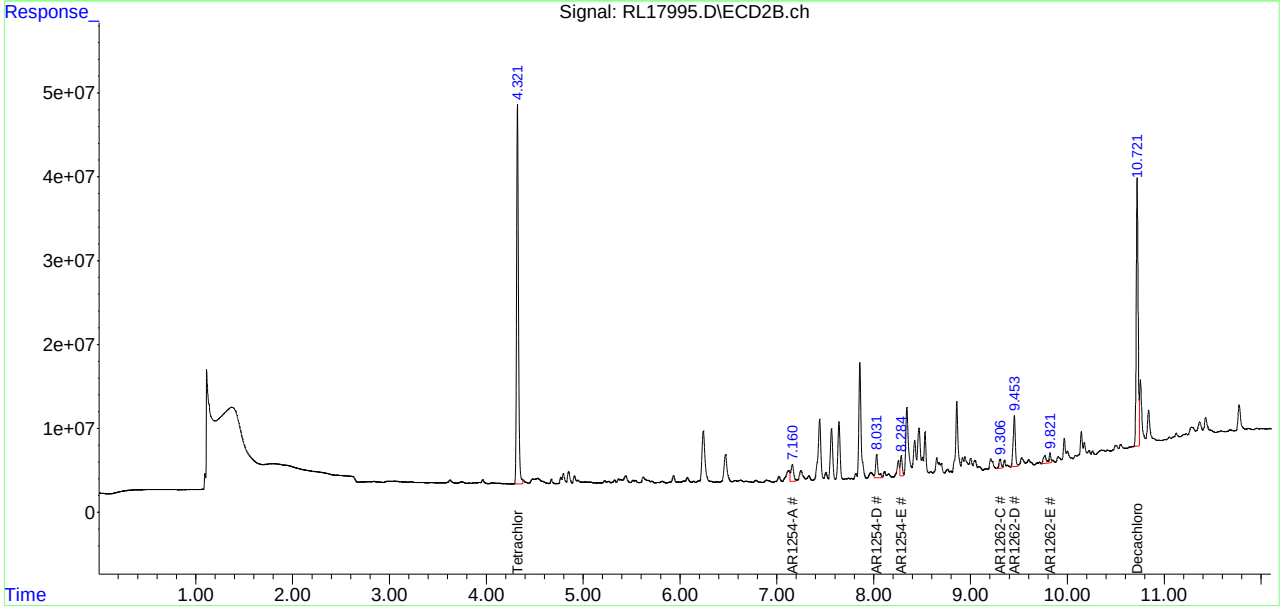
Quantitation Report (QT Reviewed)

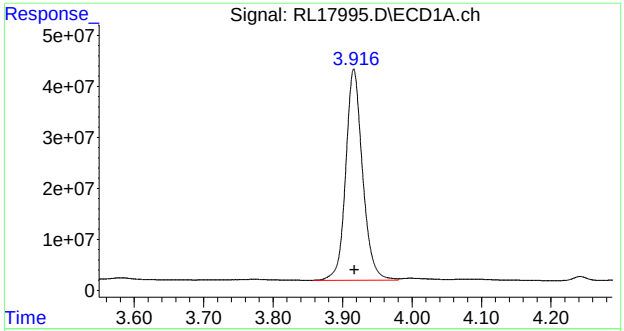
Data Path : C:\msdchem\1\data\grl399\
Data File : RL17995.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 08:30 am
Operator : christp
Sample : jd91204-16 m (Sig #1); jd91204-16 (Sig #2)
Misc : op55762,grl399,5.4,,,10,1
ALS Vial : 71 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 10:17:35 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

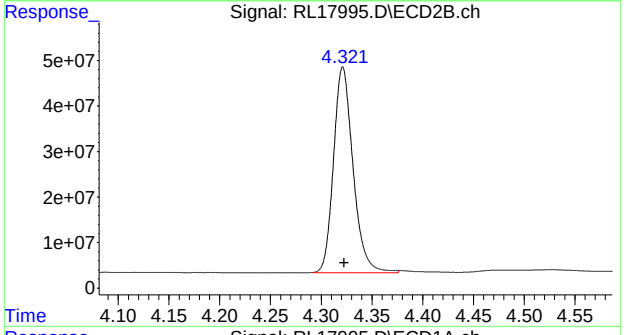






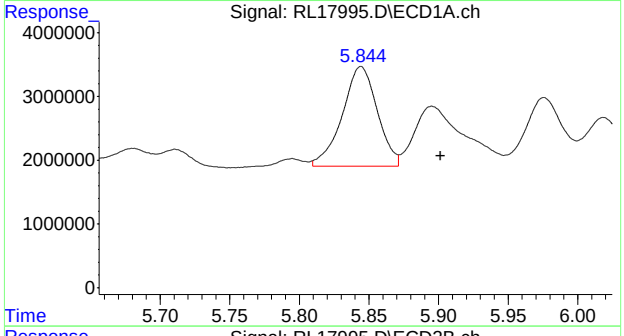
#1 Tetrachloro-m-xylene

R.T.: 3.916 min
Delta R.T.: -0.001 min
Response: 697034481
Conc: 3.20 ppb m



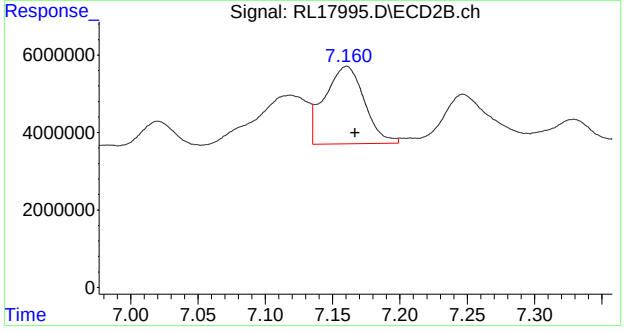
#1 Tetrachloro-m-xylene

R.T.: 4.321 min
Delta R.T.: -0.002 min
Response: 604792634
Conc: 4.02 ppb m



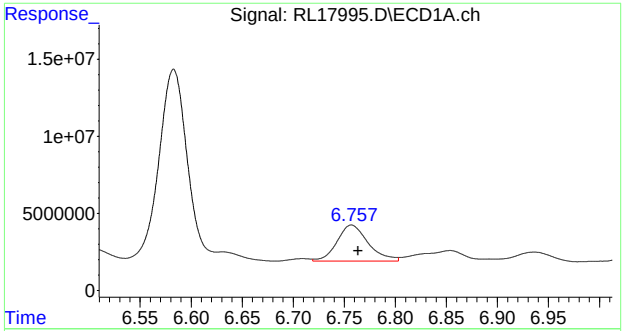
#24 AR1254-A

R.T.: 5.844 min
Delta R.T.: -0.057 min
Response: 27386317
Conc: 4.12 PPB m



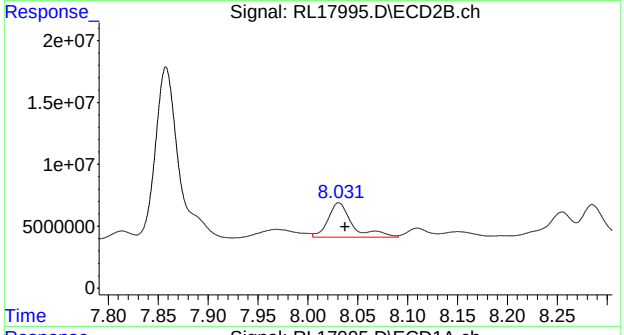
#24 AR1254-A

R.T.: 7.160 min
Delta R.T.: -0.007 min
Response: 40969374
Conc: 7.07 PPB m



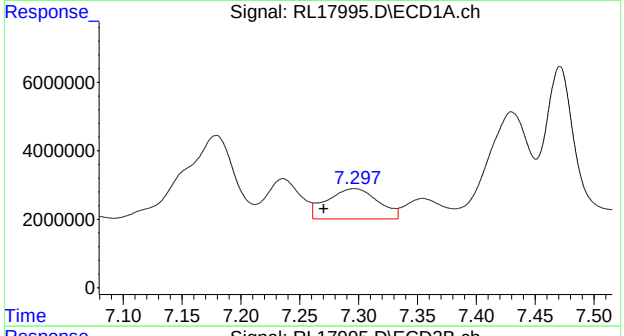
#27 AR1254-D

R.T.: 6.757 min
Delta R.T.: -0.006 min
Response: 49753827
Conc: 3.95 PPB m



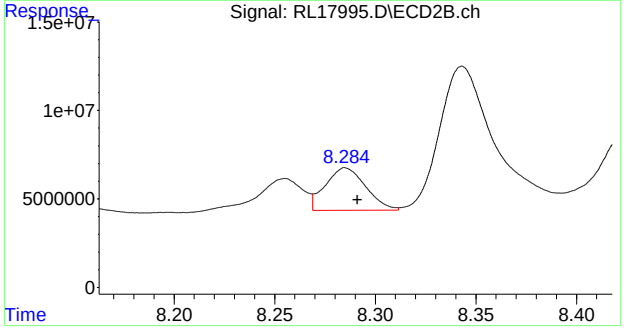
#27 AR1254-D

R.T.: 8.031 min
Delta R.T.: -0.007 min
Response: 47368680
Conc: 4.42 PPB m



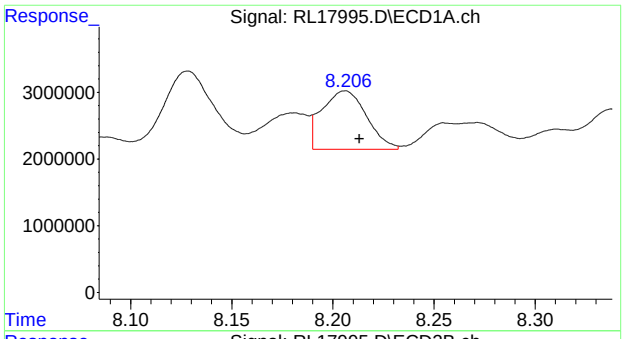
#28 AR1254-E

R.T.: 7.297 min
Delta R.T.: 0.026 min
Response: 26826275
Conc: 2.76 PPB m



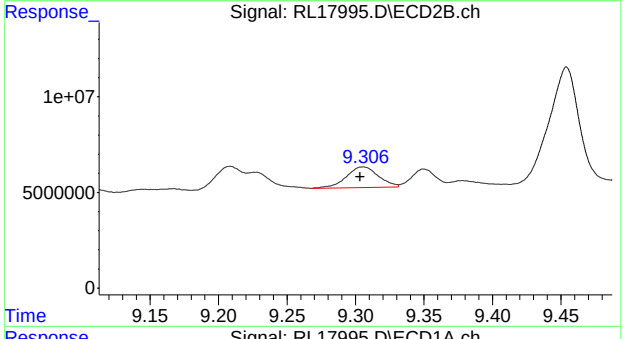
#28 AR1254-E

R.T.: 8.284 min
Delta R.T.: -0.007 min
Response: 33404682
Conc: 3.91 PPB m



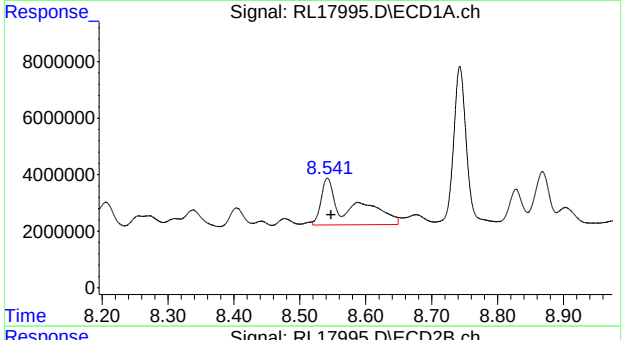
#33 AR1262-C

R.T.: 8.206 min
Delta R.T.: -0.007 min
Response: 13381447
Conc: 1.14 PPB m



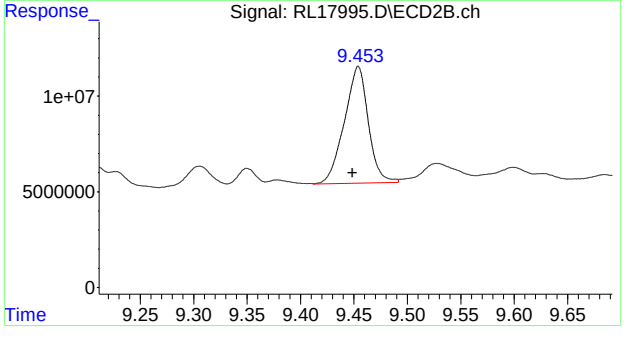
#33 AR1262-C

R.T.: 9.306 min
Delta R.T.: 0.002 min
Response: 17651802
Conc: 1.80 PPB m



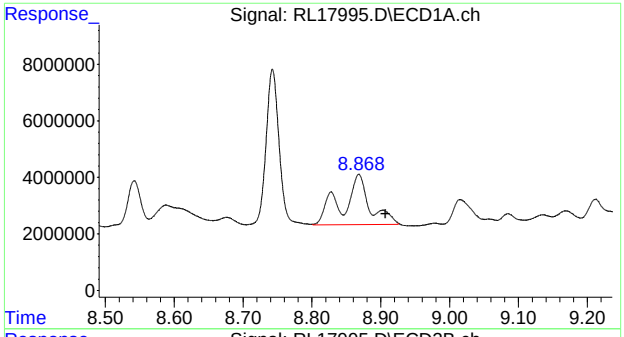
#34 AR1262-D

R.T.: 8.541 min
Delta R.T.: -0.006 min
Response: 50620469
Conc: 1.84 PPB m



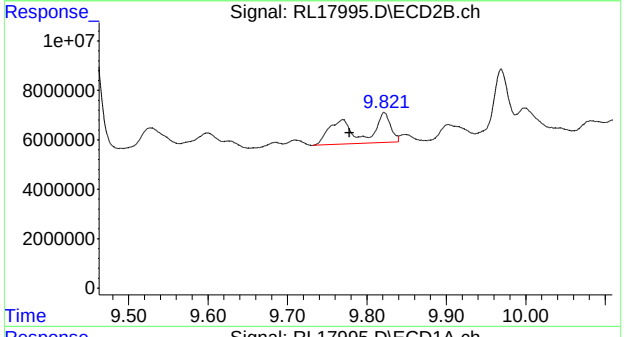
#34 AR1262-D

R.T.: 9.453 min
Delta R.T.: 0.005 min
Response: 95158989
Conc: 4.56 PPB m



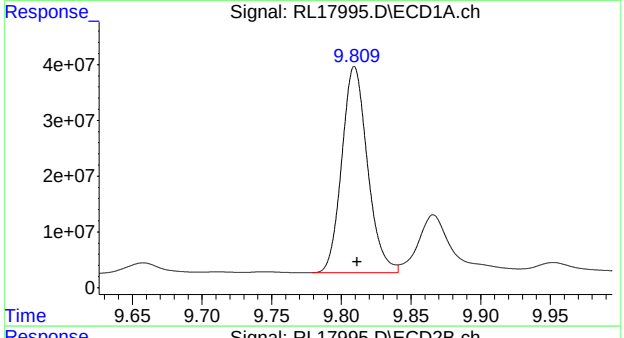
#35 AR1262-E

R.T.: 8.868 min
Delta R.T.: -0.039 min
Response: 48989631
Conc: 1.71 PPB m



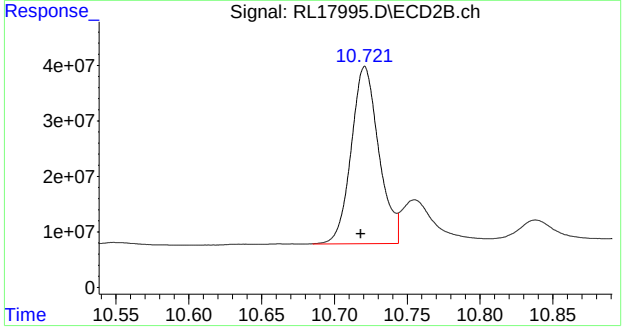
#35 AR1262-E

R.T.: 9.821 min
Delta R.T.: 0.043 min
Response: 34707718
Conc: 1.59 PPB m



#51 Decachlorobiphenyl

R.T.: 9.809 min
Delta R.T.: -0.002 min
Response: 474442319
Conc: 3.23 ppb m



#51 Decachlorobiphenyl

R.T.: 10.721 min
Delta R.T.: 0.003 min
Response: 421555491
Conc: 3.76 ppb m

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
07/01/24 12:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl399\
Data File : RL17996.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 08:46 am
Operator : christp
Sample : jd91204-17 m (Sig #1); jd91204-17 (Sig #2)
Misc : op55762,grl399,5.2,,,10,1
ALS Vial : 72 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 10:18:56 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.917	4.321	713.1E6	590.4E6	3.272	3.922m
	Spiked Amount 40.000			Recovery	=	8.18%	9.80%
51) S	Decachlor...	9.810	10.720	478.8E6	405.9E6	3.261m	3.622m
	Spiked Amount 40.000			Recovery	=	8.15%	9.05%
	Target Compounds						

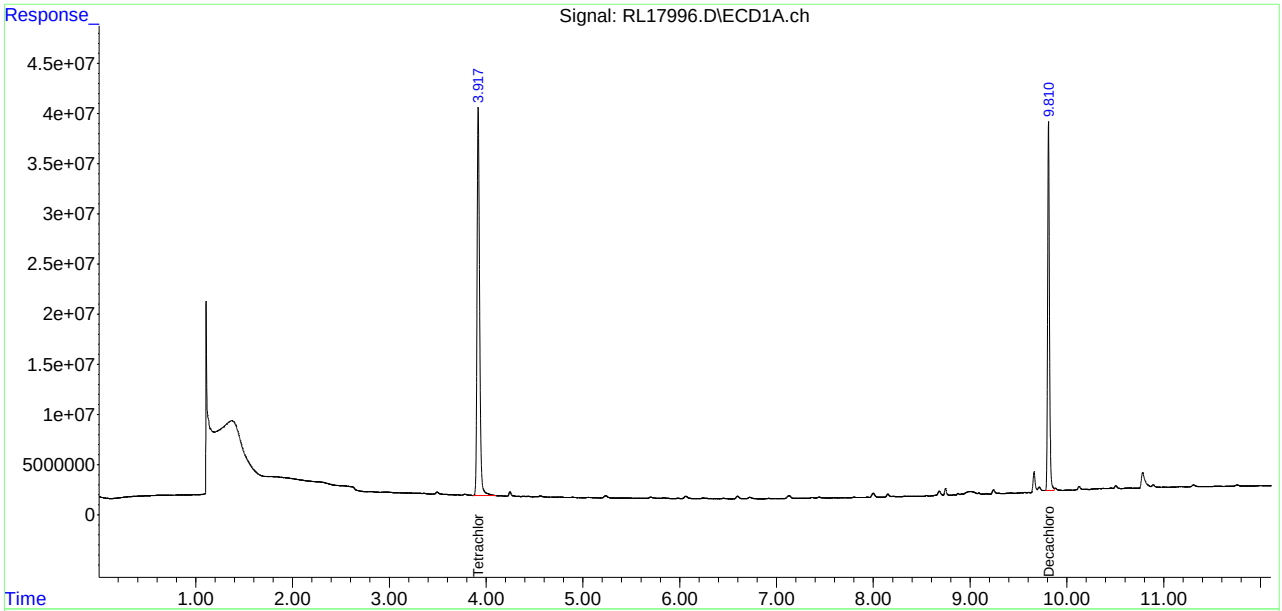
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

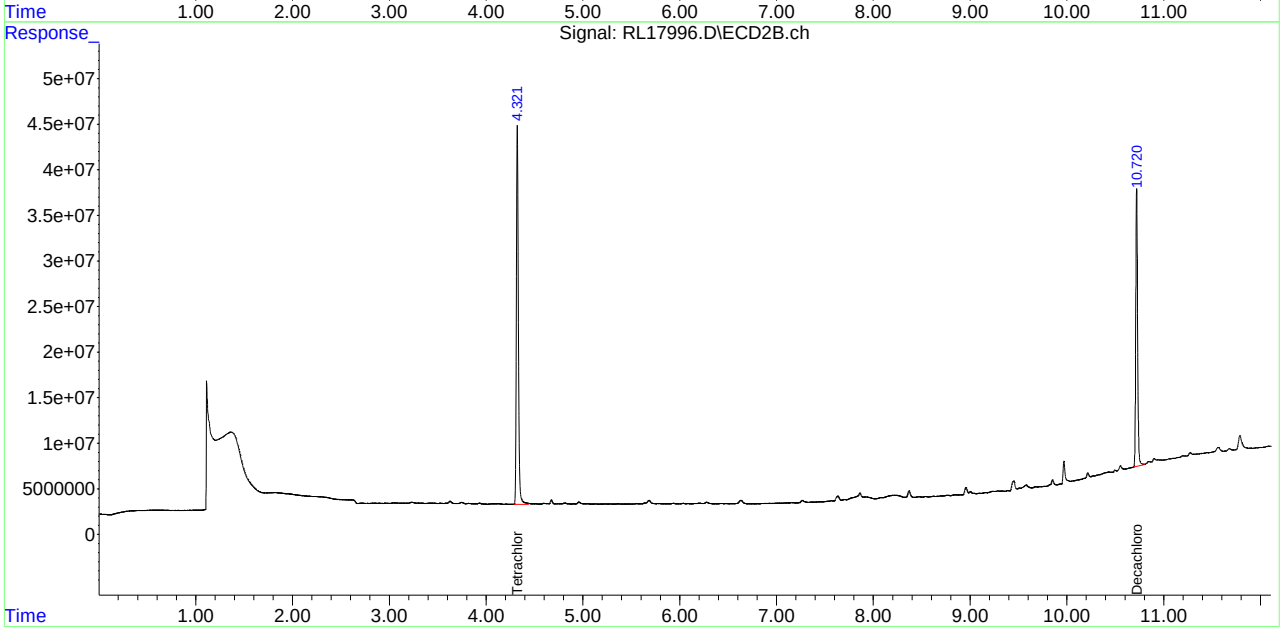
Quantitation Report (QT Reviewed)

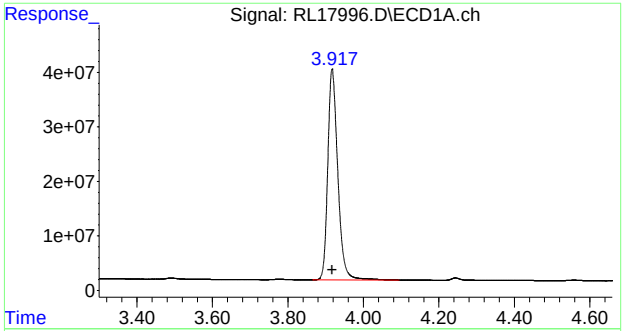
Data Path : C:\msdchem\1\data\grl399\
Data File : RL17996.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 08:46 am
Operator : christp
Sample : jd91204-17 m (Sig #1); jd91204-17 (Sig #2)
Misc : op55762,grl399,5.2,,,10,1
ALS Vial : 72 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 10:18:56 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

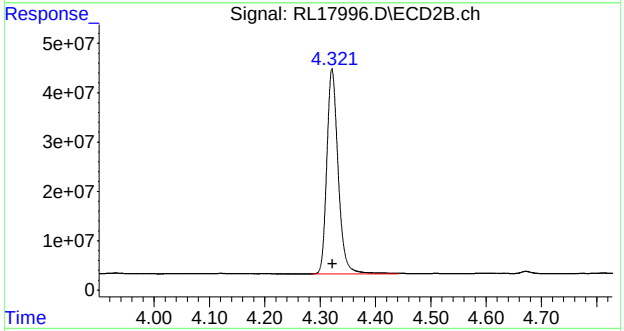






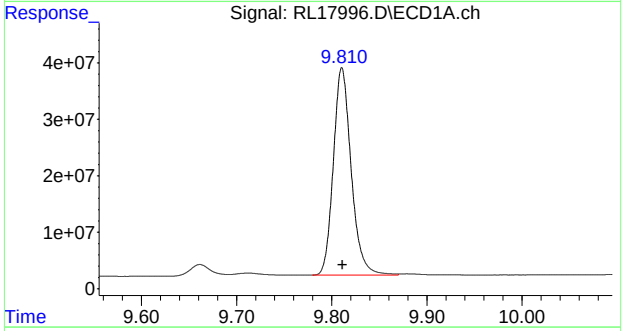
#1 Tetrachloro-m-xylene

R.T.: 3.917 min
Delta R.T.: 0.000 min
Response: 713098048
Conc: 3.27 ppb



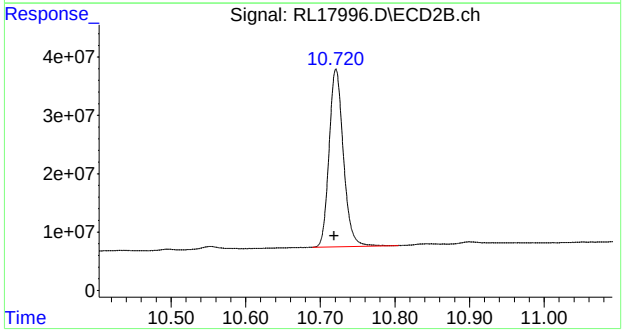
#1 Tetrachloro-m-xylene

R.T.: 4.321 min
Delta R.T.: -0.001 min
Response: 590431740
Conc: 3.92 ppb m



#51 Decachlorobiphenyl

R.T.: 9.810 min
Delta R.T.: 0.000 min
Response: 478828550
Conc: 3.26 ppb m



#51 Decachlorobiphenyl

R.T.: 10.720 min
Delta R.T.: 0.002 min
Response: 405896347
Conc: 3.62 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 11:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\1G7068\
Data File : 1g197505.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2024 8:43 am
Operator : tilakp
Sample : op55744-mb1
Misc : op55744,g1g7068,1000,,,5,1
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 00:32:53 2024
Quant Method : C:\msdchem\1\data\kyrae\1G7068\1PST6859a.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 03:52:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.061	1.033	427.6E6	416.9E6	50.000m	50.000
27) I 1-bromo-2...	1.061	1.033	428.0E6	416.9E6	50.000m	50.000
33) I 1-bromo-2...	1.061	1.033	426.8E6	416.9E6	50.000m	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	1.501	1.607	438.2E6	287.7E6	53.511m	55.115m
Spiked Amount 40.000	Range 30 - 150		Recovery = 133.78%		137.79%	
26) SA Decachlor...	8.190f	9.752f	507.9E6	483.0E6	60.870m	54.398m
Spiked Amount 40.000			Recovery = 152.17%		136.00%	
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

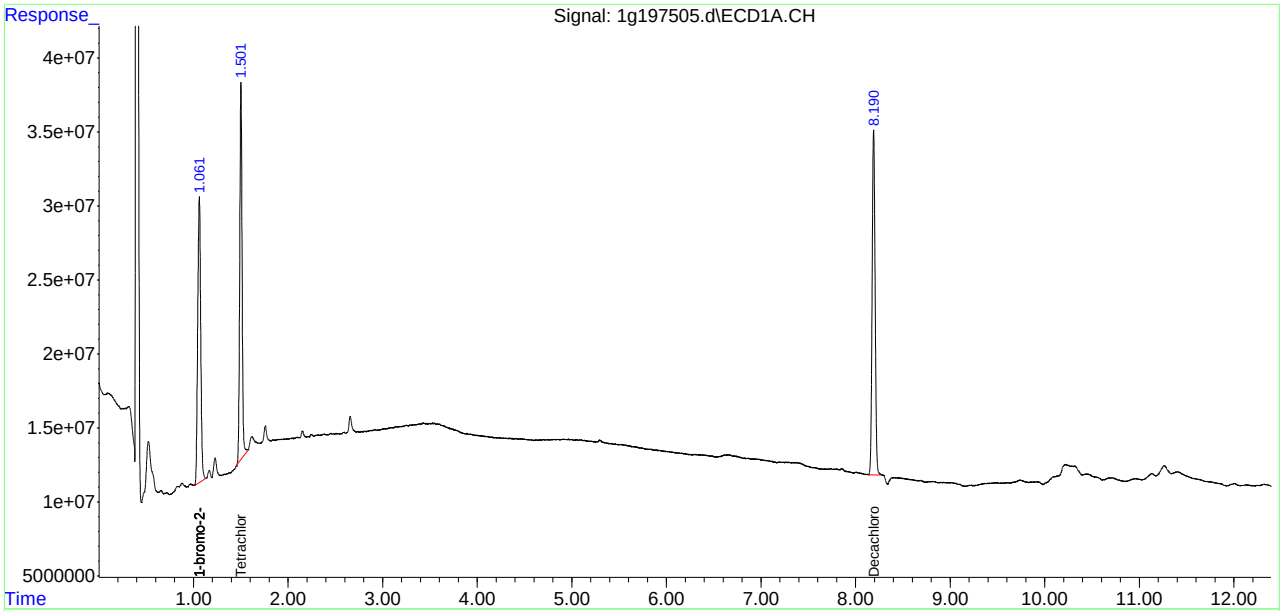
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

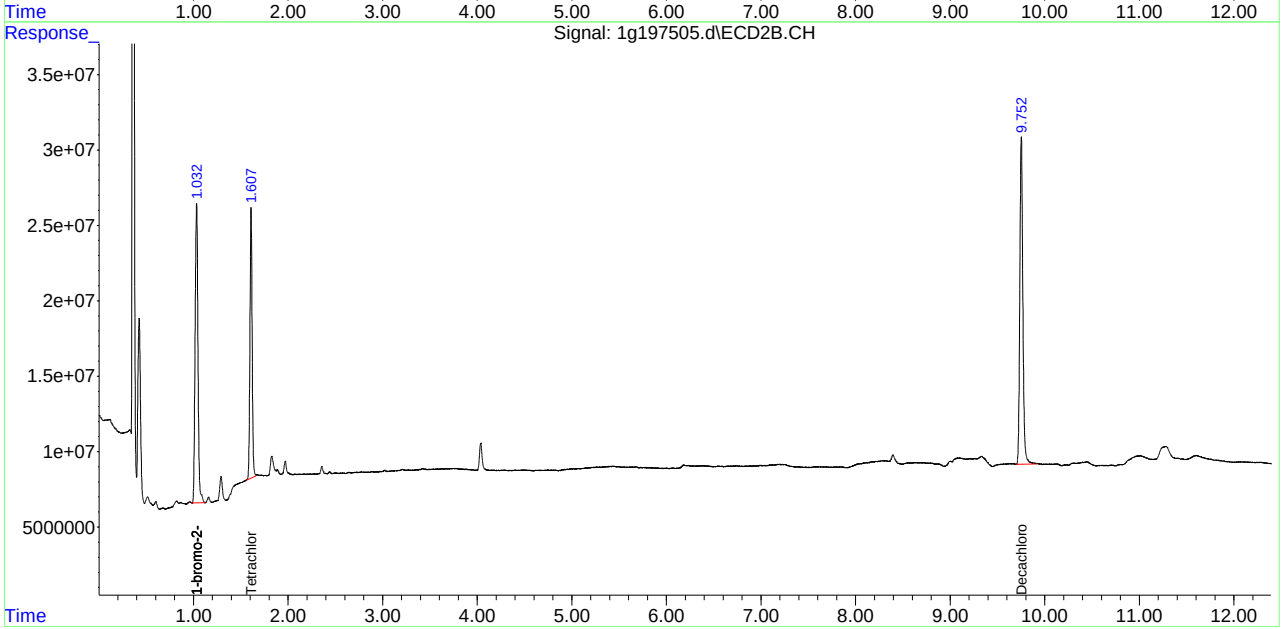
Quantitation Report (QT Reviewed)

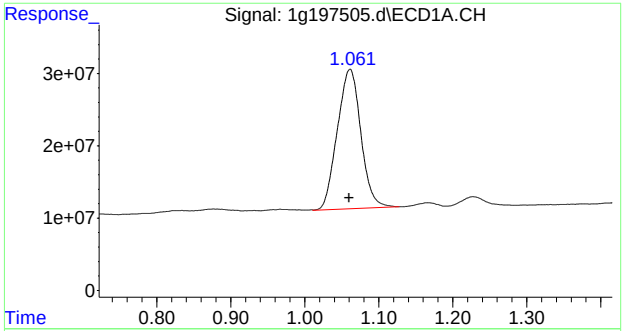
Data Path : C:\msdchem\1\data\1G7068\
Data File : 1g197505.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2024 8:43 am
Operator : tilakp
Sample : op55744-mb1
Misc : op55744,g1g7068,1000,,,5,1
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 00:32:53 2024
Quant Method : C:\msdchem\1\data\kyrae\1G7068\1PST6859a.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 03:52:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

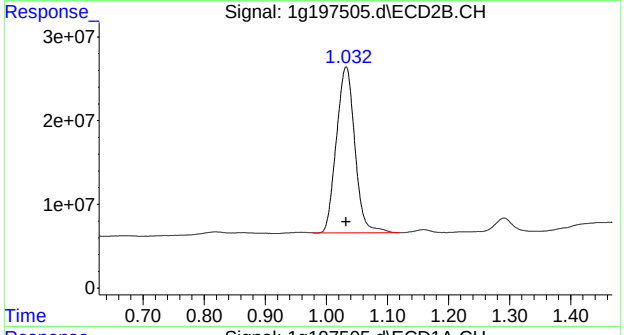






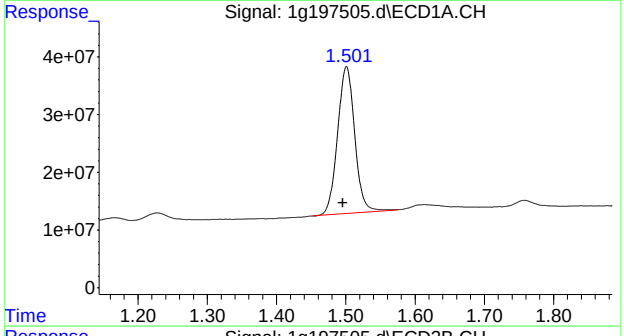
#1 1-bromo-2-nitrobenzene

R.T.: 1.061 min
Delta R.T.: 0.001 min
Response: 427627165
Conc: 50.00 PPB m



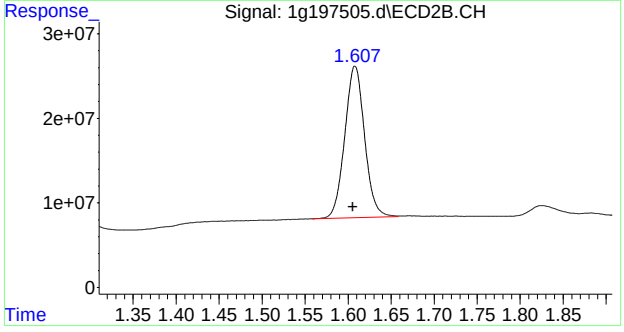
#1 1-bromo-2-nitrobenzene

R.T.: 1.033 min
Delta R.T.: 0.000 min
Response: 416879546
Conc: 50.00 PPB



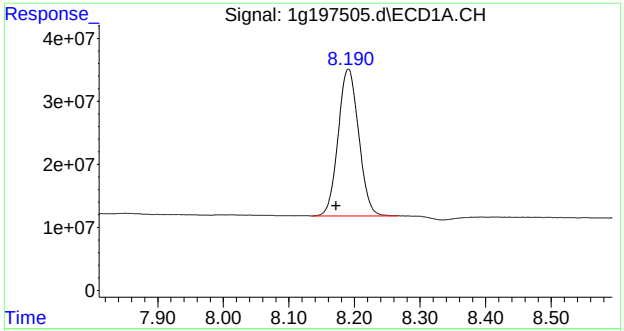
#2 Tetrachloro-m-xylene

R.T.: 1.501 min
Delta R.T.: 0.005 min
Response: 438210680
Conc: 53.51 PPB m



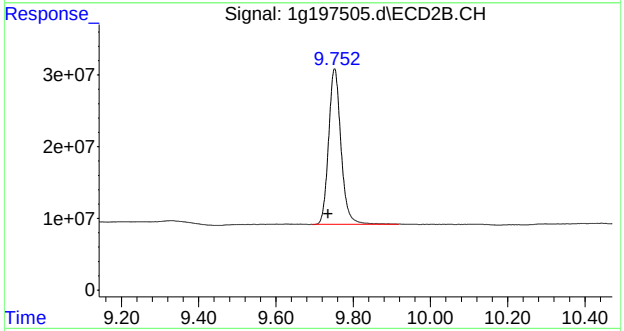
#2 Tetrachloro-m-xylene

R.T.: 1.607 min
Delta R.T.: 0.002 min
Response: 287708797
Conc: 55.11 PPB m



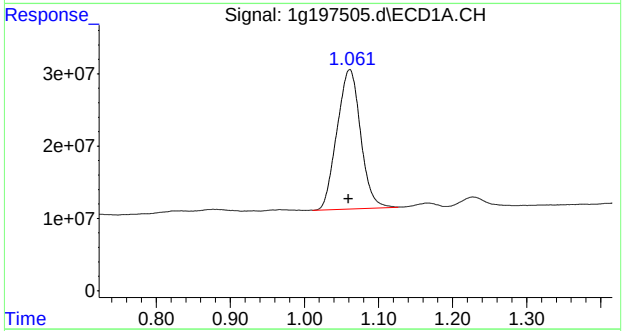
#26 Decachlorobiphenyl

R.T.: 8.190 min
Delta R.T.: 0.019 min
Response: 507945145
Conc: 60.87 PPB m



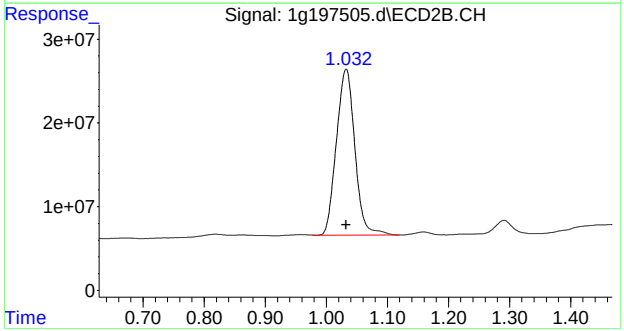
#26 Decachlorobiphenyl

R.T.: 9.752 min
Delta R.T.: 0.017 min
Response: 482979307
Conc: 54.40 PPB m



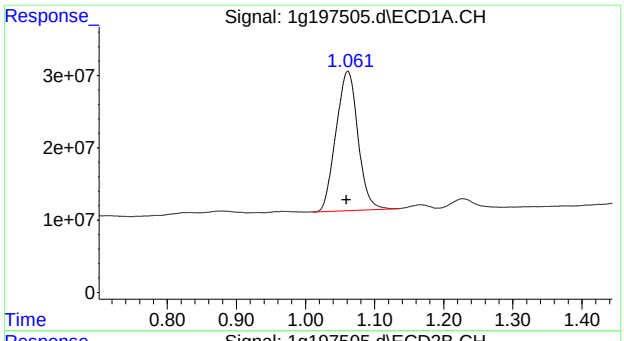
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.061 min
Delta R.T.: 0.002 min
Response: 427958592
Conc: 50.00 PPB m



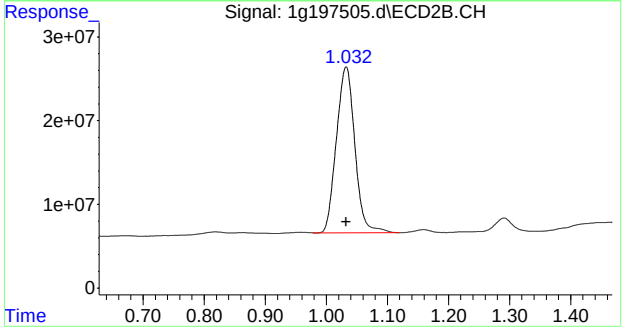
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.033 min
Delta R.T.: 0.000 min
Response: 416879546
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.061 min
Delta R.T.: 0.002 min
Response: 426764171
Conc: 50.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.033 min
Delta R.T.: 0.000 min
Response: 416879546
Conc: 50.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
07/01/24 09:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g5g3659\
Data File : 5G138854.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 12:48 am
Operator : christp
Sample : op55761-mb1 m
Misc : op55761,G5G3659,5.0,,,10,1
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 09:25:24 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.605	4.904	1750.3E6	2275.6E6	5.000m	5.000
27)	I 1-bromo-2...	4.605	4.904	1757.2E6	2275.6E6	5.000m	5.000
33)	I 1-bromo-2...	4.605	4.904	1749.1E6	2275.6E6	5.000m	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.235	5.722	462.6E6	1852.4E6	2.451m	3.051m
	Spiked Amount	40.000	Range 30 - 150	Recovery	=	6.13%#	7.63%#
26)	SA Decachlor...	12.430	14.177	1339.6E6	1051.1E6	2.643m	2.323m
	Spiked Amount	40.000		Recovery	=	6.61%	5.81%
	Target Compounds						
	SemiQuant Compounds - Not Calibrated on this Instrument						

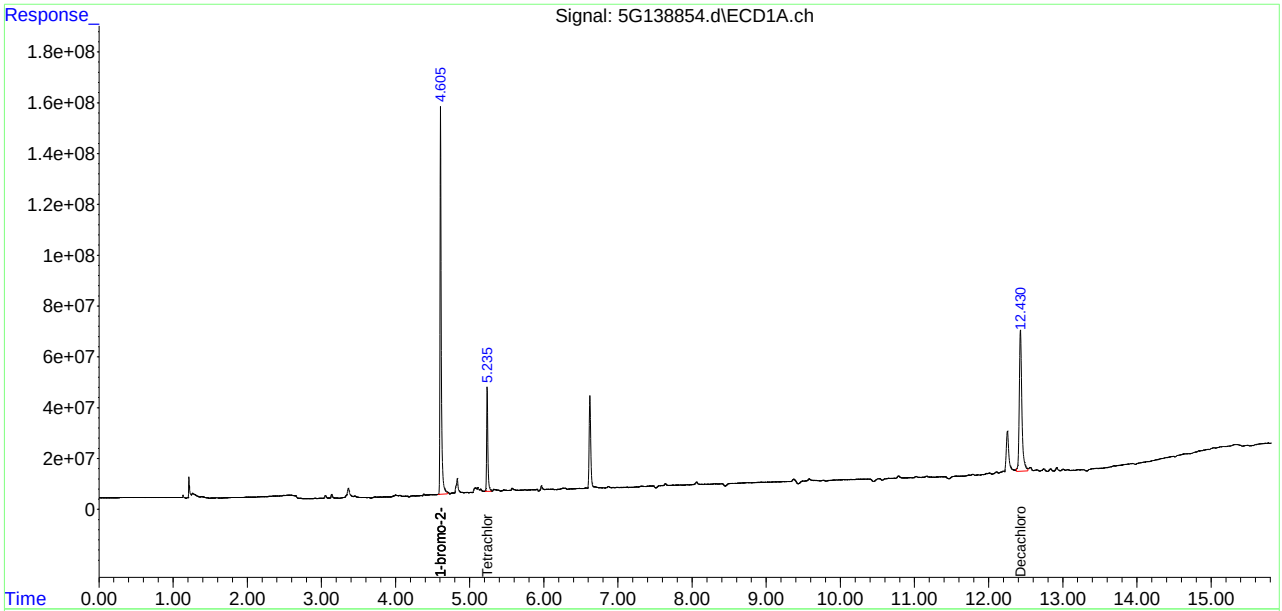
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

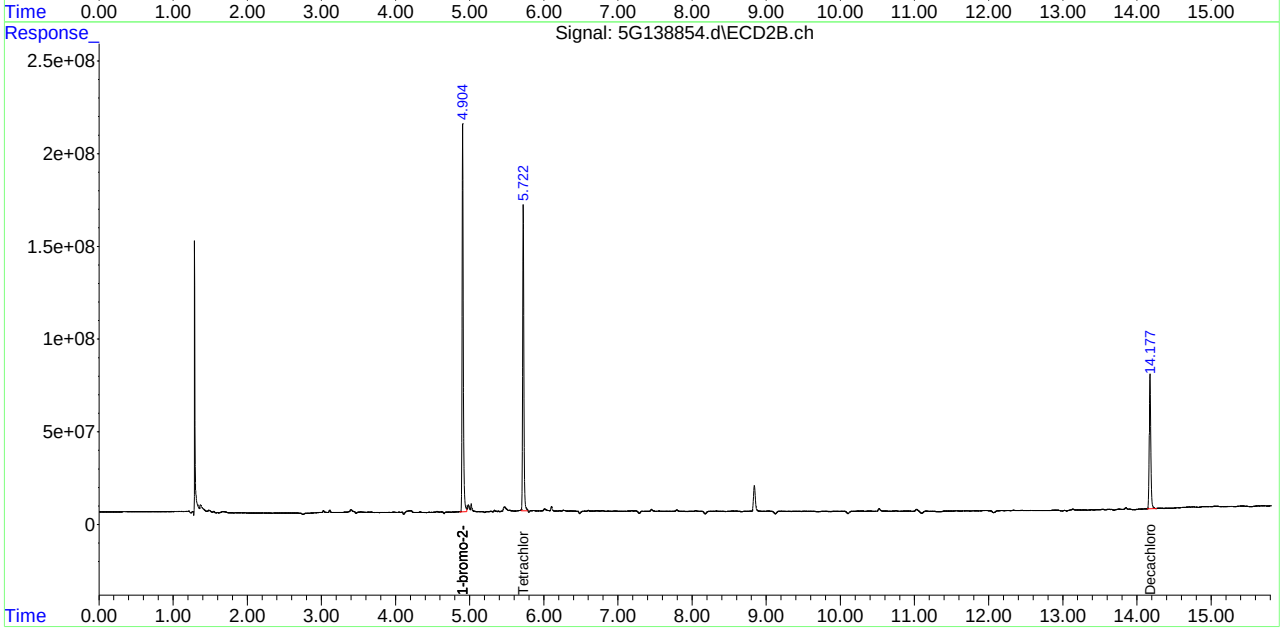
Quantitation Report (QT Reviewed)

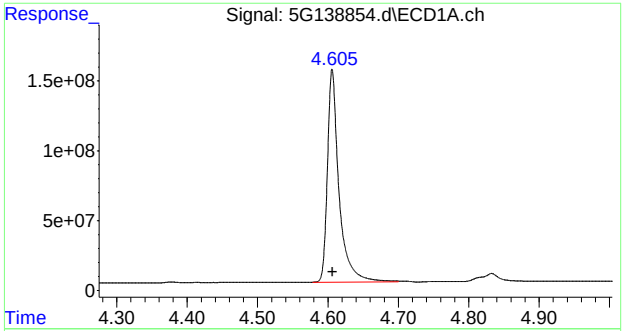
Data Path : C:\msdchem\1\data\g5g3659\
Data File : 5G138854.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Jul 2024 12:48 am
Operator : christp
Sample : op55761-mb1 m
Misc : op55761,G5G3659,5.0,,,10,1
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 09:25:24 2024
Quant Method : C:\msdchem\1\data\laylanie\g5g3659\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Mon Jul 01 08:44:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

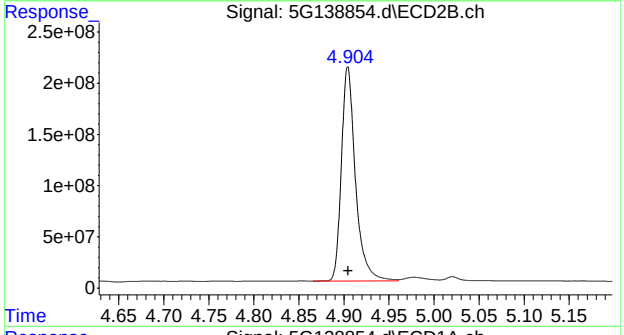






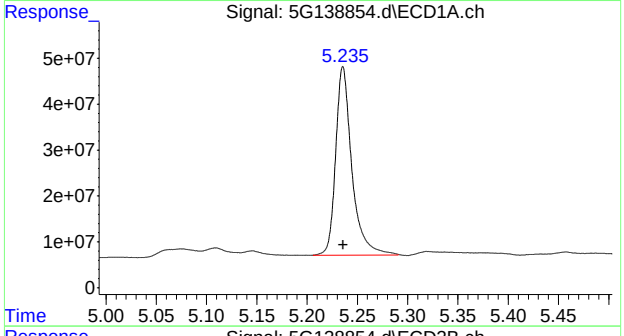
#1 1-bromo-2-nitrobenzene

R.T.: 4.605 min
Delta R.T.: 0.000 min
Response: 1750314198
Conc: 5.00 PPB m



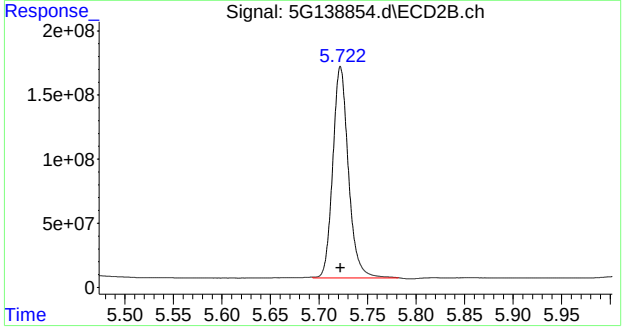
#1 1-bromo-2-nitrobenzene

R.T.: 4.904 min
Delta R.T.: 0.000 min
Response: 2275634721
Conc: 5.00 PPB



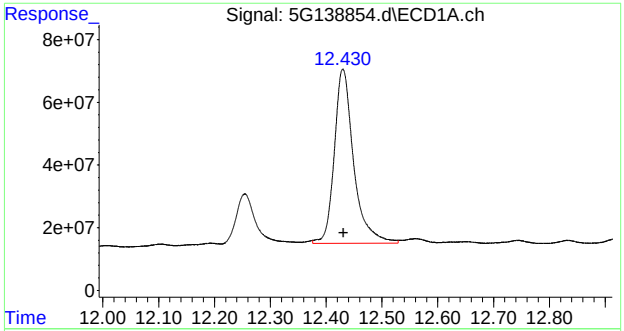
#2 Tetrachloro-m-xylene

R.T.: 5.235 min
Delta R.T.: 0.000 min
Response: 462648734
Conc: 2.45 PPB m



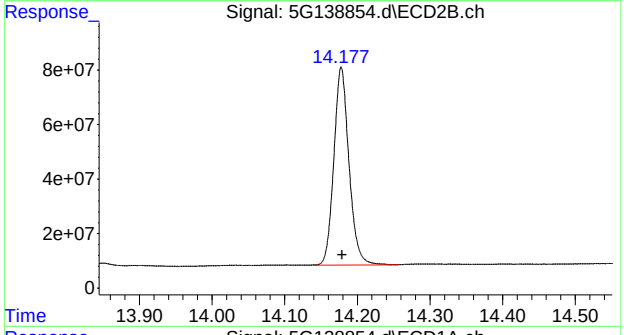
#2 Tetrachloro-m-xylene

R.T.: 5.722 min
Delta R.T.: 0.000 min
Response: 1852389054
Conc: 3.05 PPB m



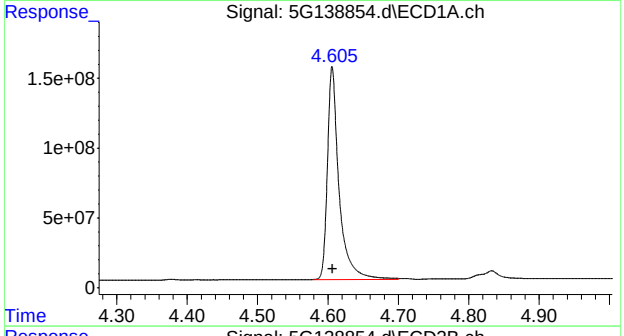
#26 Decachlorobiphenyl

R.T.: 12.430 min
Delta R.T.: -0.002 min
Response: 1339598388
Conc: 2.64 PPB m



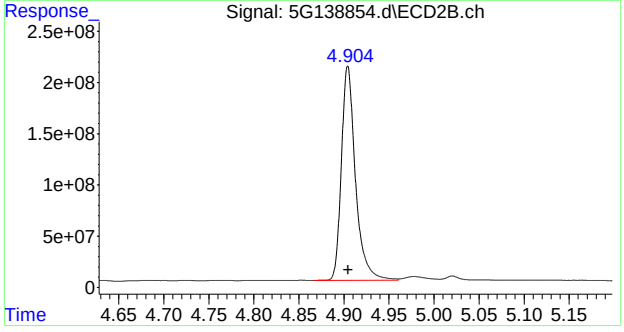
#26 Decachlorobiphenyl

R.T.: 14.177 min
Delta R.T.: -0.002 min
Response: 1051087758
Conc: 2.32 PPB m



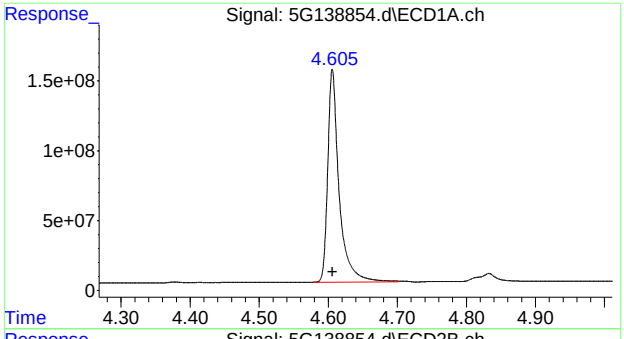
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.605 min
Delta R.T.: 0.000 min
Response: 1757188809
Conc: 5.00 PPB m



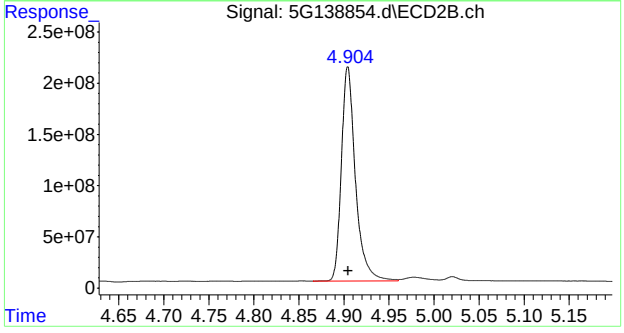
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.904 min
Delta R.T.: 0.000 min
Response: 2275634721
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.605 min
Delta R.T.: 0.000 min
Response: 1749110870
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.904 min
Delta R.T.: 0.000 min
Response: 2275634721
Conc: 5.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 11:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17972.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 02:04 am
Operator : christp
Sample : op55762-mb1 m
Misc : op55762,grl399,5.0,,,10,1
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 06:48:31 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1)	S Tetrachlo...	3.919	4.319	709.9E6	587.7E6	3.257m	3.903m
	Spiked Amount 40.000			Recovery	=	8.14%	9.76%
51)	S Decachlor...	9.833f	10.736f	489.9E6	409.3E6	3.337m	3.652m
	Spiked Amount 40.000			Recovery	=	8.34%	9.13%
	Target Compounds						

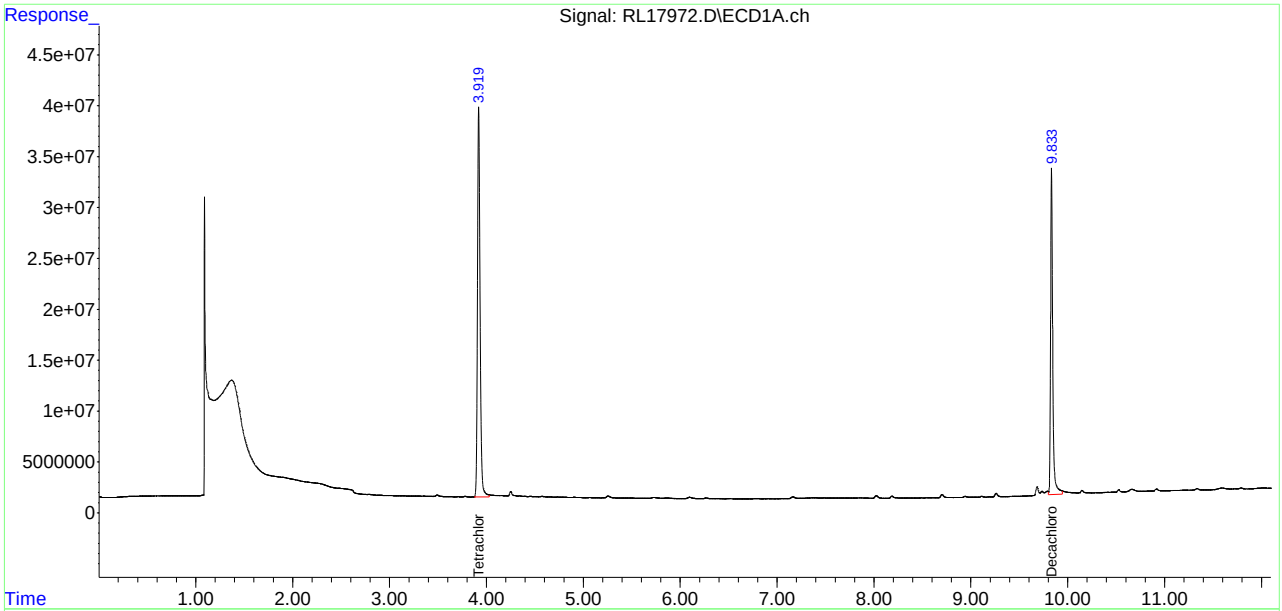
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

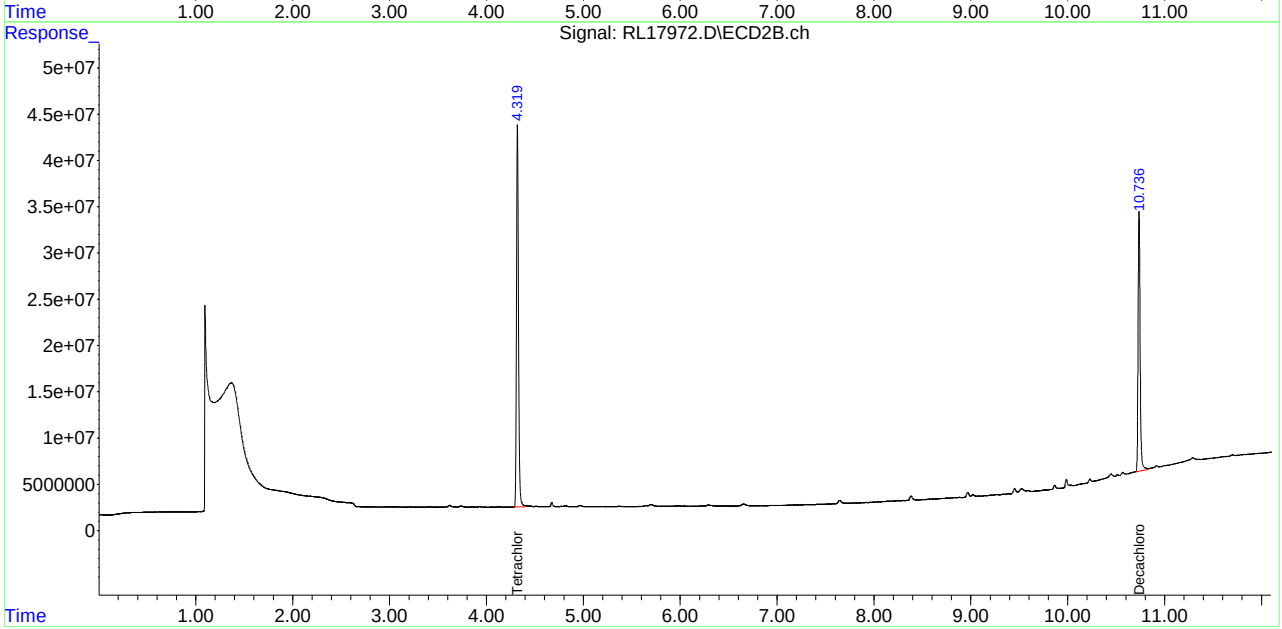
Quantitation Report (QT Reviewed)

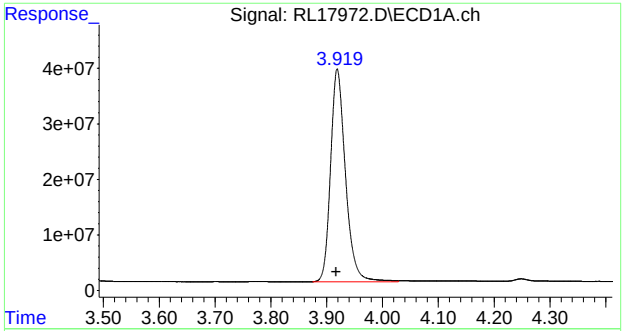
Data Path : C:\msdchem\1\data\laylanie\grl399\
Data File : RL17972.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 02:04 am
Operator : christp
Sample : op55762-mb1 m
Misc : op55762,grl399,5.0,,,10,1
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 01 06:48:31 2024
Quant Method : C:\msdchem\1\data\laylanie\grl399\pcblvigcrl343.m
Quant Title :
QLast Update : Mon Jul 01 06:35:36 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

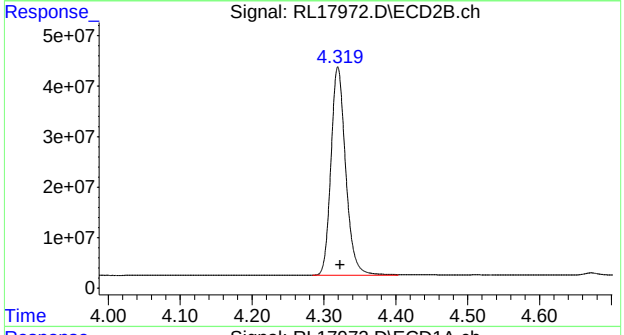






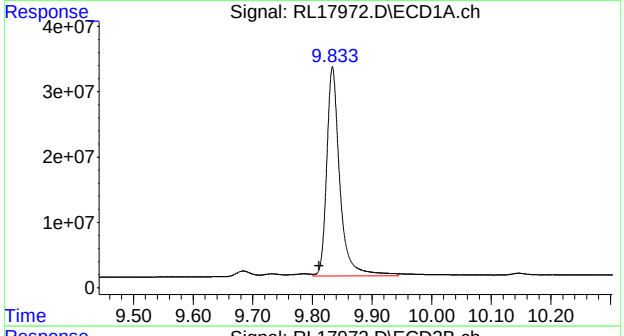
#1 Tetrachloro-m-xylene

R.T.: 3.919 min
Delta R.T.: 0.002 min
Response: 709864082
Conc: 3.26 ppb m



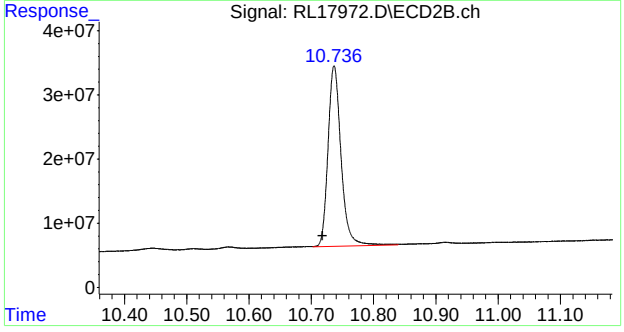
#1 Tetrachloro-m-xylene

R.T.: 4.319 min
Delta R.T.: -0.003 min
Response: 587672706
Conc: 3.90 ppb m



#51 Decachlorobiphenyl

R.T.: 9.833 min
Delta R.T.: 0.022 min
Response: 489895717
Conc: 3.34 ppb m



#51 Decachlorobiphenyl

R.T.: 10.736 min
Delta R.T.: 0.018 min
Response: 409250618
Conc: 3.65 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/01/24 10:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\gxx8562\
Data File : xx2513573.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2024 1:10 pm
Operator : tilakp
Sample : op55745-mb1
Misc : op55745,gxx8562,1000,,,5,1
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 22:55:03 2024
Quant Method : C:\msdchem\1\data\kyrae\GXX8562\PCBXX8517.M
Quant Title :
QLast Update : Mon Jul 01 01:39:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.351	4.210	1069.3E6	2980.7E6	56.261	48.453m
	Spiked Amount	40.000		Recovery	=	140.65%	121.13%
51) S	Decachlor...	10.663	12.736	851.8E6	1890.3E6	46.168m	46.477m
	Spiked Amount	40.000		Recovery	=	115.42%	116.19%
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.2.4

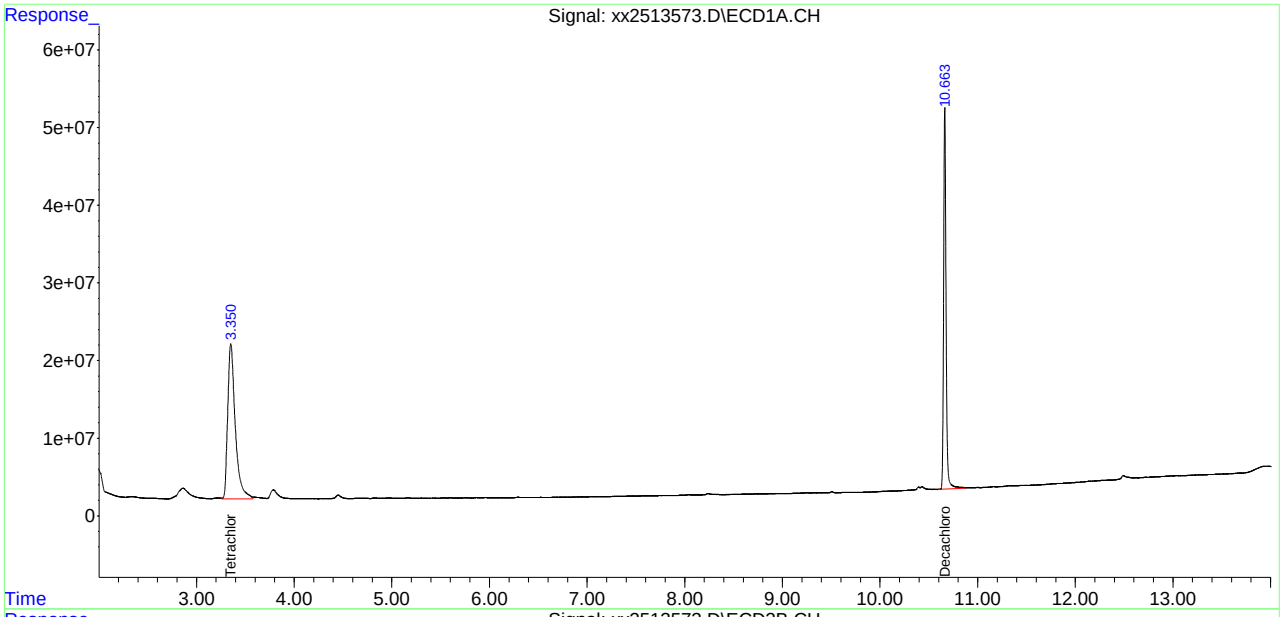
9

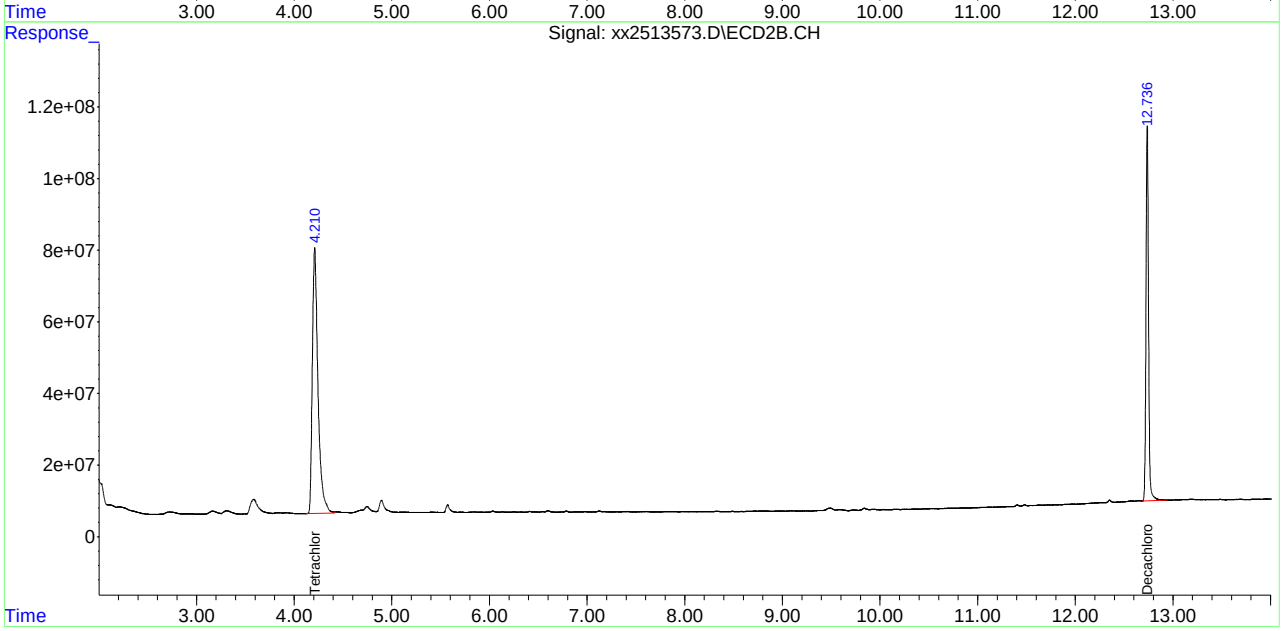
Quantitation Report (QT Reviewed)

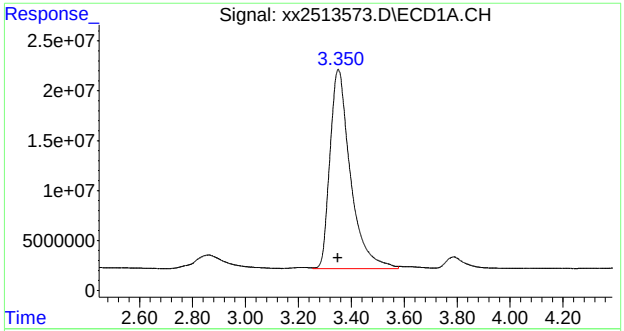
Data Path : C:\msdchem\1\data\gxx8562\
Data File : xx2513573.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jun 2024 1:10 pm
Operator : tilakp
Sample : op55745-mb1
Misc : op55745,gxx8562,1000,,,5,1
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 22:55:03 2024
Quant Method : C:\msdchem\1\data\kyrae\GXX8562\PCBXX8517.M
Quant Title :
QLast Update : Mon Jul 01 01:39:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

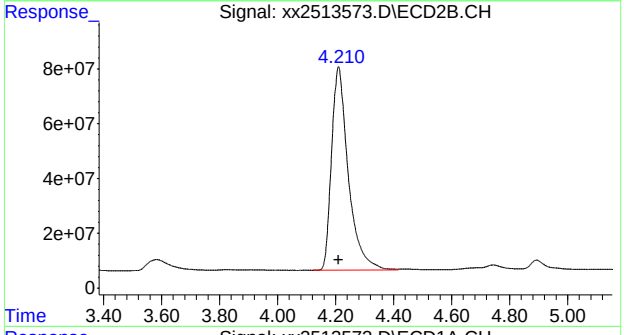






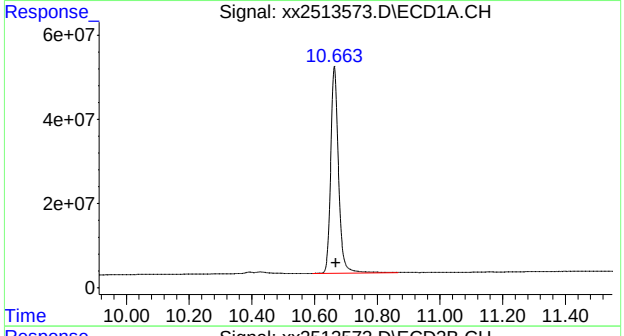
#1 Tetrachloro-m-xylene

R.T.: 3.351 min
Delta R.T.: 0.002 min
Response: 1069334890
Conc: 56.26 ppb



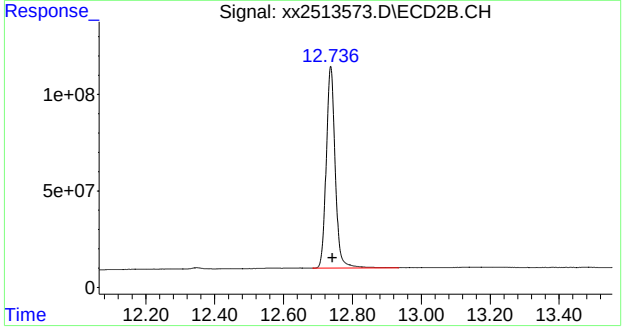
#1 Tetrachloro-m-xylene

R.T.: 4.210 min
Delta R.T.: 0.000 min
Response: 2980736463
Conc: 48.45 ppb m



#51 Decachlorobiphenyl

R.T.: 10.663 min
Delta R.T.: -0.004 min
Response: 851845761
Conc: 46.17 ppb m



#51 Decachlorobiphenyl

R.T.: 12.736 min
Delta R.T.: -0.006 min
Response: 1890324907
Conc: 46.48 ppb m

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\1G6859\
Data File : 1g192517.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jan 2024 7:07 am
Operator : rebeccak
Sample : icc6859-25 (Pest Mix)
Misc : op51957,g1g6859,250,,,2,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 29 08:55:05 2024
Quant Method : C:\msdchem\1\methods\1PST6859.M
Quant Title : PEST/PCB
QLast Update : Sun Jan 14 21:56:30 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	1.299	1.256	462.5E6	355.8E6	50.000	50.000
27)	I 1-bromo-2...	1.299	1.256	462.5E6	355.8E6	50.000	50.000
33)	I 1-bromo-2...	1.299	1.256	462.5E6	355.8E6	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.768	1.874	212.2E6	104.9E6	23.407	24.409
	Spiked Amount 40.000	Range 30 - 150		Recovery =		58.52%	61.02%
26)	SA Decachlor...	8.834	10.235f	220.9E6	179.5E6	26.438	21.793
	Spiked Amount 40.000			Recovery =		66.09%	54.48%
	Target Compounds						
3)	Hexachlor...	2.045	2.265	243.3E6	248.0E6	21.882	20.698
4)	A alpha-BHC	2.155	2.368	314.0E6	256.8E6	19.728	21.085
5)	MA gamma-BHC	2.406	2.705	283.6E6	231.5E6	20.655	20.918
6)	MA Heptachlor	2.821	3.177	307.1E6	248.4E6	21.230	21.273
7)	B beta-BHC	2.483	2.789	127.4E6	87131567	21.444	20.661
8)	B delta-BHC	2.642	3.103	254.9E6	216.3E6	19.323	20.263
9)	MB Aldrin	3.114	3.553	276.6E6	232.4E6	20.689	21.118
10)	Alachlor	3.244	3.404	35410333	22009477	23.201	21.704
11)	B Heptachlo...	3.762	4.272	268.7E6	210.6E6	21.111	20.495
12)	B gamma-Chl...	3.914	4.537	268.5E6	216.4E6	21.142	20.810
13)	B alpha-Chl...	4.074	4.741	265.3E6	208.2E6	21.566	20.795
14)	A Endosulfan I	4.240	4.820	262.9E6	203.5E6	21.712	20.552
15)	B 4,4'-DDE	4.188	5.005	218.4E6	198.9E6	19.181	20.965
16)	MA Dieldrin	4.550	5.224	262.1E6	218.1E6	20.435	20.515
17)	MA Endrin	4.861	5.689	247.3E6	201.2E6	20.313	20.356
18)	A 4,4'-DDD	5.006	5.917f	189.4E6	151.2E6	19.337	20.510
19)	B Endosulfa...	5.182	6.037	231.0E6	189.6E6	20.682	20.241
20)	MA 4,4'-DDT	5.405	6.431f	185.2E6	133.2E6	18.729	18.827
21)	B Endrin Al...	5.806	6.598f	172.4E6	129.5E6	21.911	19.144
22)	B Endosulfa...	6.493	7.080f	212.8E6	159.5E6	21.105	19.867
23)	A Methoxychlor	6.208	7.673f	117.5E6	76469683	19.841	18.198
24)	Mirex	6.315	7.926f	202.1E6	127.5E6	23.057	18.821
25)	B Endrin Ke...	6.945	8.011f	248.6E6	188.6E6	20.487	20.246
	Sum Toxaphene			0	0	N.D.	N.D.
Average	Toxaphene					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						

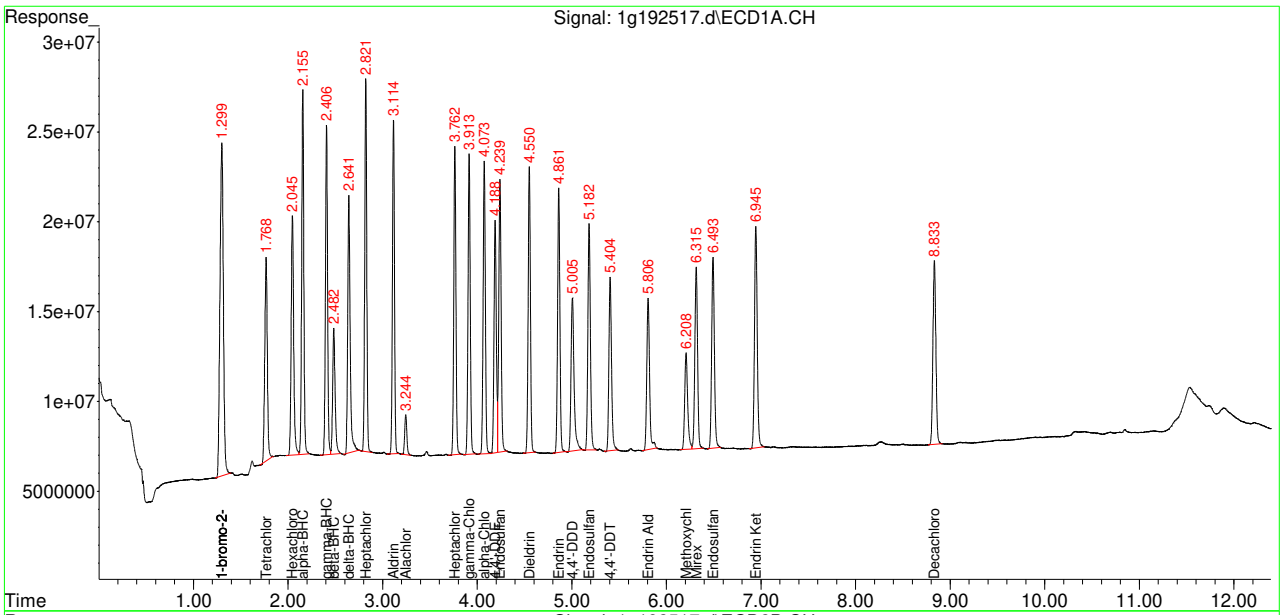
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

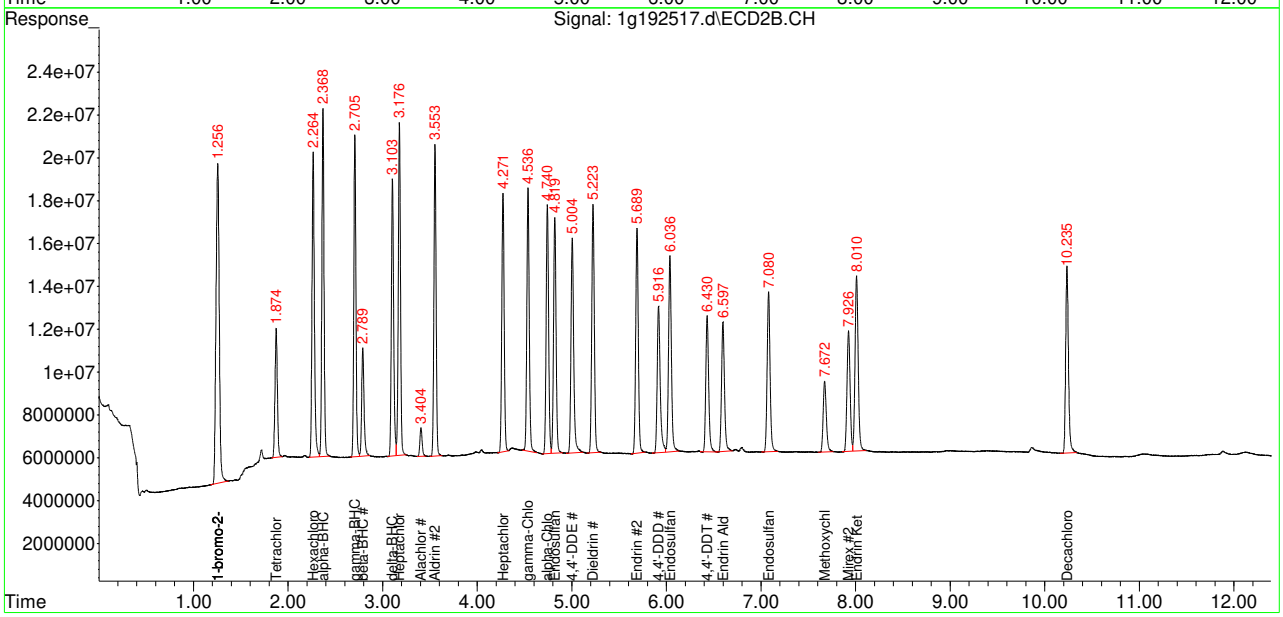
Quantitation Report (QT Reviewed)

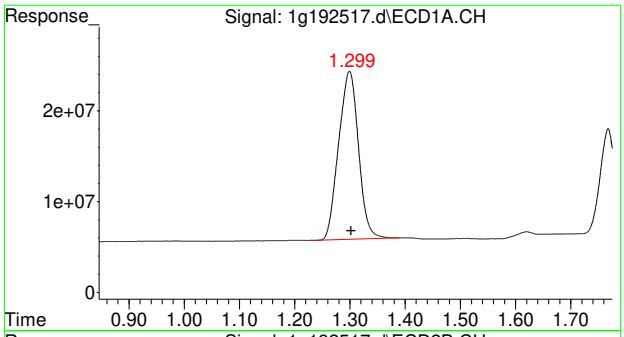
Data Path : C:\msdchem\1\data\1G6859\
Data File : 1g192517.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jan 2024 7:07 am
Operator : rebeccak
Sample : icc6859-25 (Pest Mix)
Misc : op51957,g1g6859,250,,,2,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 29 08:55:05 2024
Quant Method : C:\msdchem\1\methods\1PST6859.M
Quant Title : PEST/PCB
QLast Update : Sun Jan 14 21:56:30 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

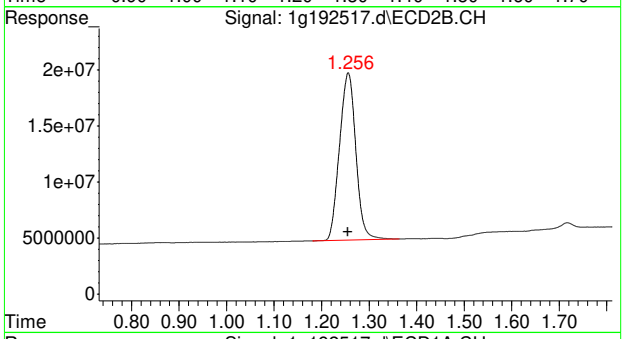






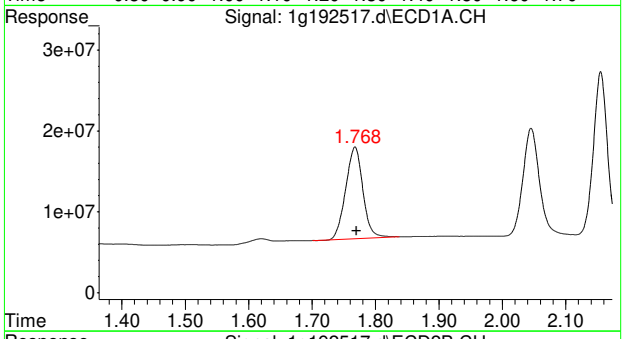
#1 1-bromo-2-nitrobenzene

R.T.: 1.299 min
Delta R.T.: -0.003 min
Response: 462539575
Conc: 50.00 PPB



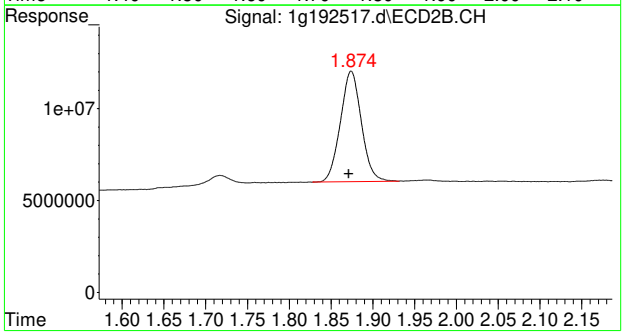
#1 1-bromo-2-nitrobenzene

R.T.: 1.256 min
Delta R.T.: 0.001 min
Response: 355808252
Conc: 50.00 PPB



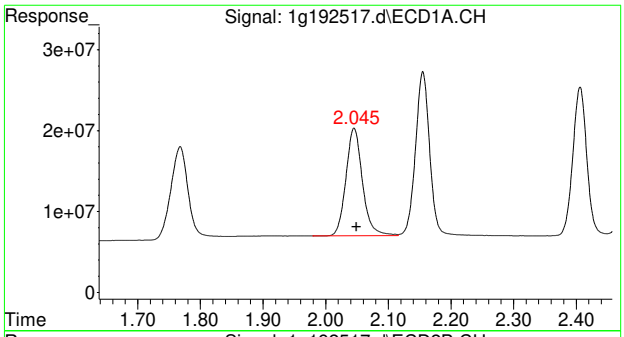
#2 Tetrachloro-m-xylene

R.T.: 1.768 min
Delta R.T.: -0.002 min
Response: 212241883
Conc: 23.41 PPB



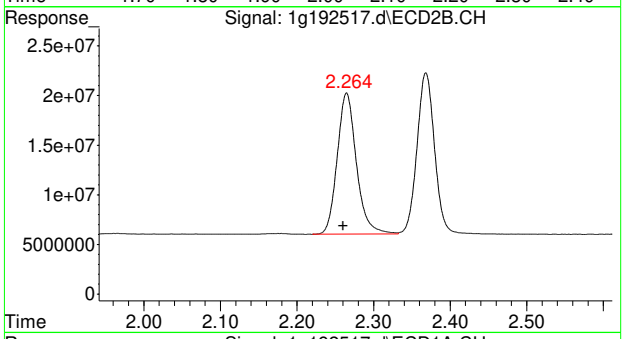
#2 Tetrachloro-m-xylene

R.T.: 1.874 min
Delta R.T.: 0.003 min
Response: 104922995
Conc: 24.41 PPB



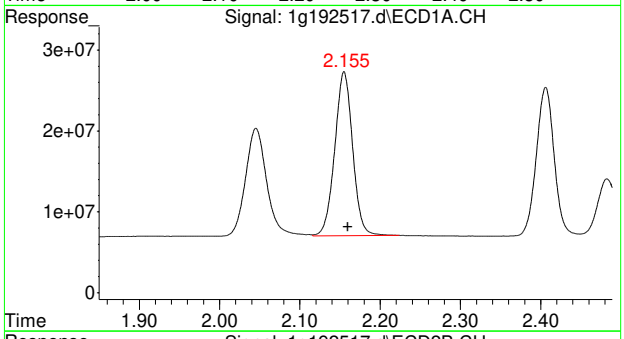
#3 Hexachlorobenzene

R.T.: 2.045 min
Delta R.T.: -0.003 min
Response: 243299341
Conc: 21.88 PPB



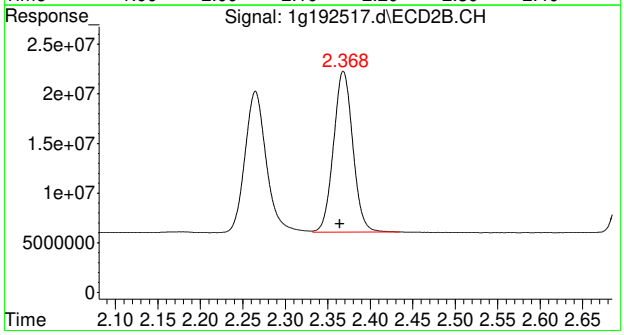
#3 Hexachlorobenzene

R.T.: 2.265 min
Delta R.T.: 0.004 min
Response: 248039769
Conc: 20.70 PPB



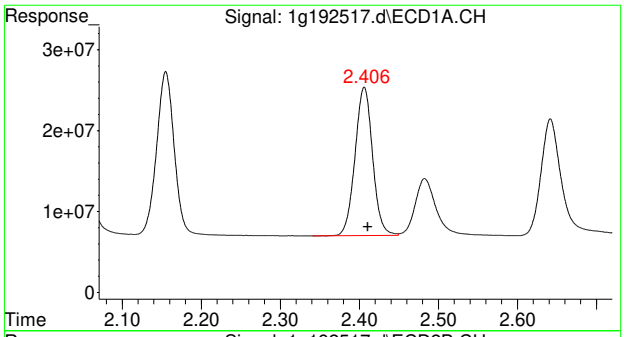
#4 alpha-BHC

R.T.: 2.155 min
Delta R.T.: -0.005 min
Response: 313956181
Conc: 19.73 PPB



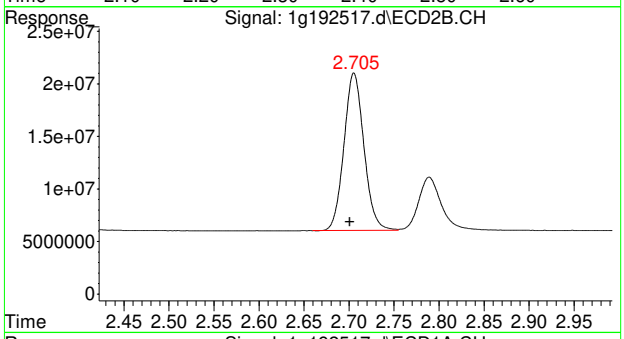
#4 alpha-BHC

R.T.: 2.368 min
Delta R.T.: 0.004 min
Response: 256837759
Conc: 21.09 PPB



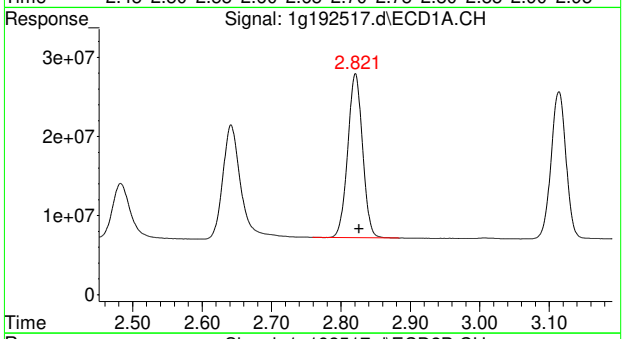
#5 gamma-BHC

R.T.: 2.406 min
Delta R.T.: -0.004 min
Response: 283617205
Conc: 20.65 PPB



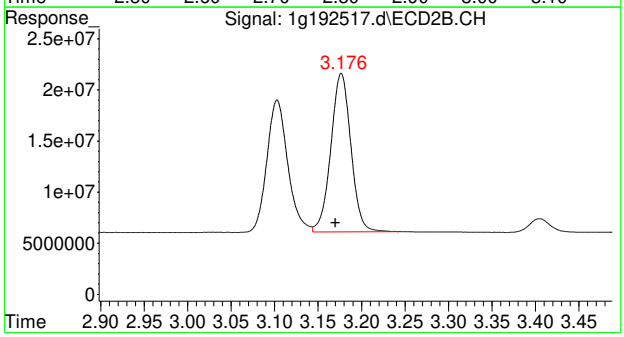
#5 gamma-BHC

R.T.: 2.705 min
Delta R.T.: 0.005 min
Response: 231515591
Conc: 20.92 PPB



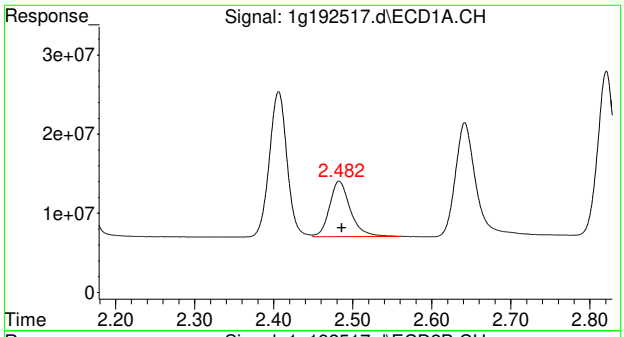
#6 Heptachlor

R.T.: 2.821 min
Delta R.T.: -0.005 min
Response: 307145847
Conc: 21.23 PPB



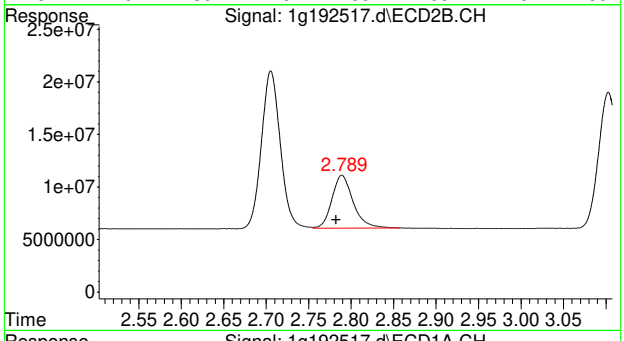
#6 Heptachlor

R.T.: 3.177 min
Delta R.T.: 0.007 min
Response: 248357449
Conc: 21.27 PPB



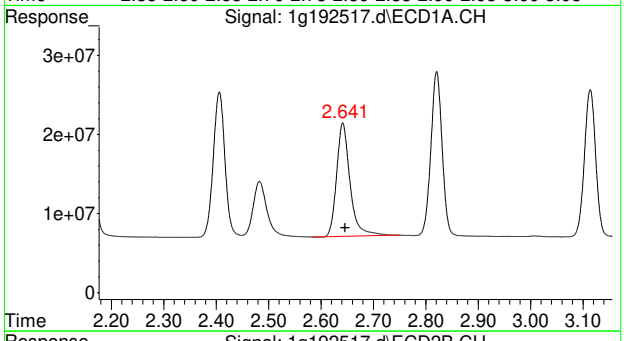
#7 beta-BHC

R.T.: 2.483 min
Delta R.T.: -0.003 min
Response: 127404521
Conc: 21.44 PPB



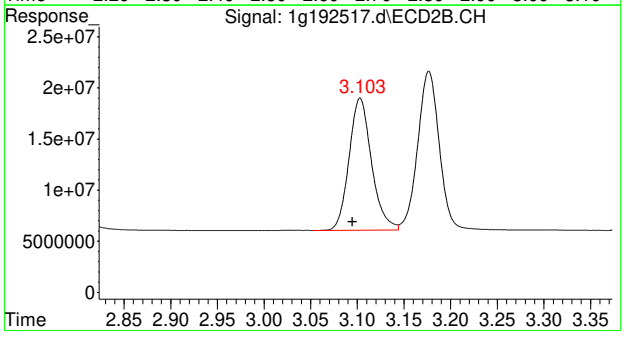
#7 beta-BHC

R.T.: 2.789 min
Delta R.T.: 0.007 min
Response: 87131567
Conc: 20.66 PPB



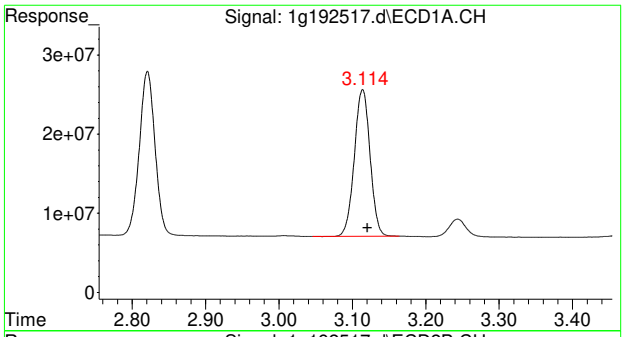
#8 delta-BHC

R.T.: 2.642 min
Delta R.T.: -0.004 min
Response: 254869851
Conc: 19.32 PPB



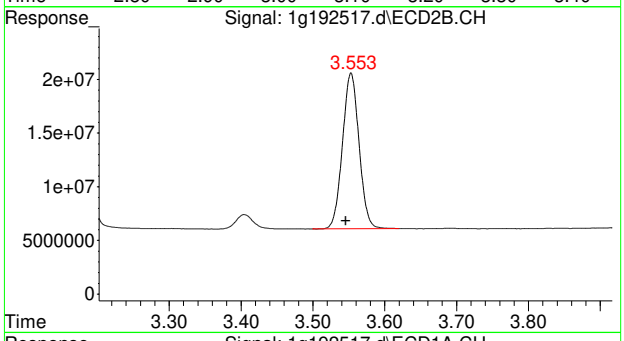
#8 delta-BHC

R.T.: 3.103 min
Delta R.T.: 0.008 min
Response: 216334027
Conc: 20.26 PPB



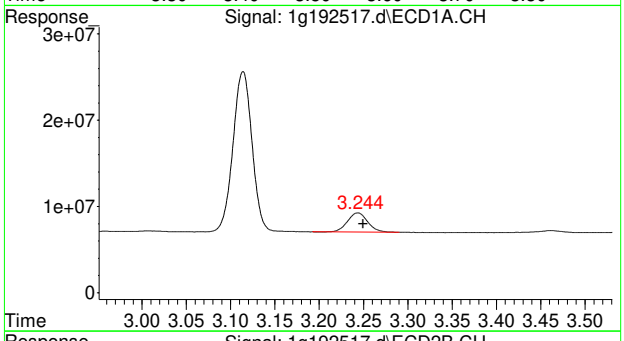
#9 Aldrin

R.T.: 3.114 min
Delta R.T.: -0.006 min
Response: 276584848
Conc: 20.69 PPB



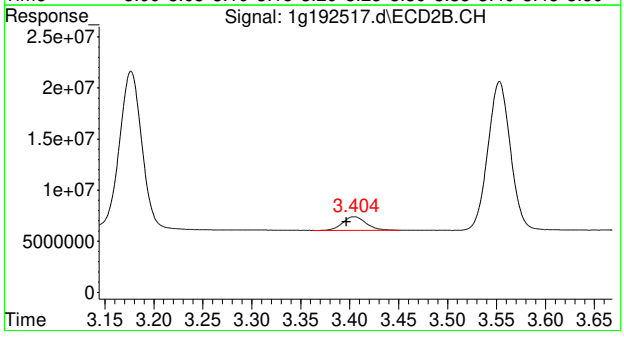
#9 Aldrin

R.T.: 3.553 min
Delta R.T.: 0.007 min
Response: 232382878
Conc: 21.12 PPB



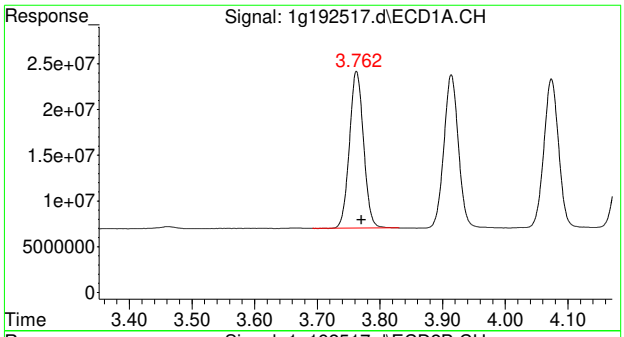
#10 Alachlor

R.T.: 3.244 min
Delta R.T.: -0.006 min
Response: 35410333
Conc: 23.20 PPB



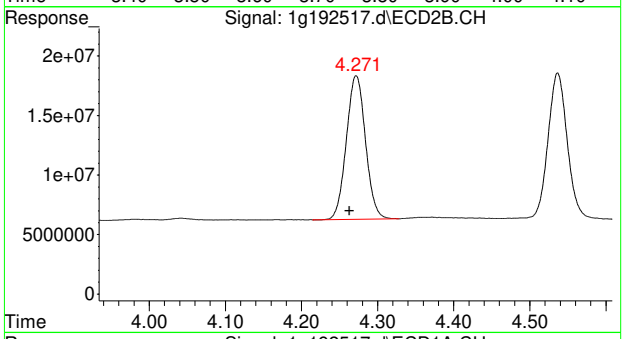
#10 Alachlor

R.T.: 3.404 min
Delta R.T.: 0.008 min
Response: 22009477
Conc: 21.70 PPB



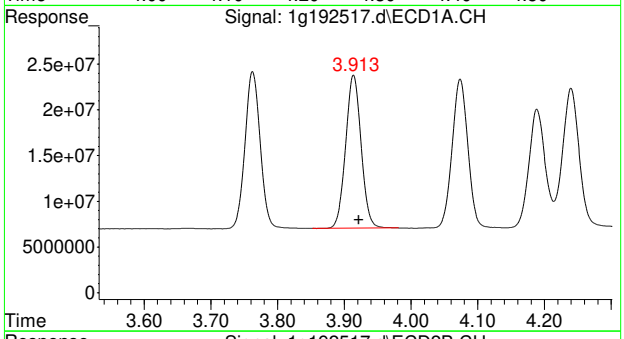
#11 Heptachlor Epoxide

R.T.: 3.762 min
Delta R.T.: -0.008 min
Response: 268672624
Conc: 21.11 PPB



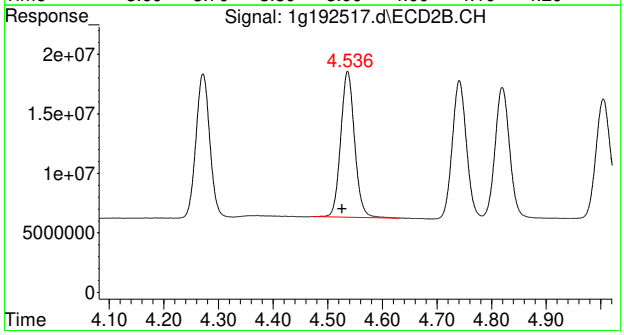
#11 Heptachlor Epoxide

R.T.: 4.272 min
Delta R.T.: 0.009 min
Response: 210607224
Conc: 20.49 PPB



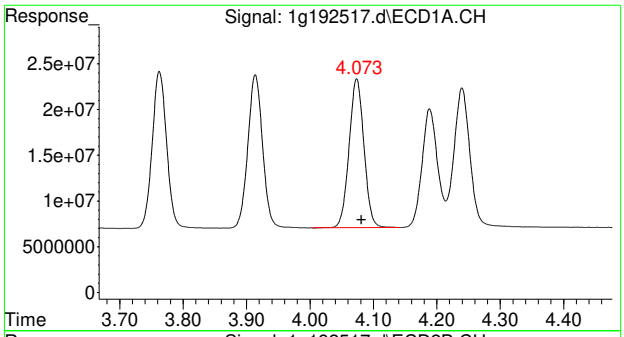
#12 gamma-Chlordane

R.T.: 3.914 min
Delta R.T.: -0.008 min
Response: 268466033
Conc: 21.14 PPB



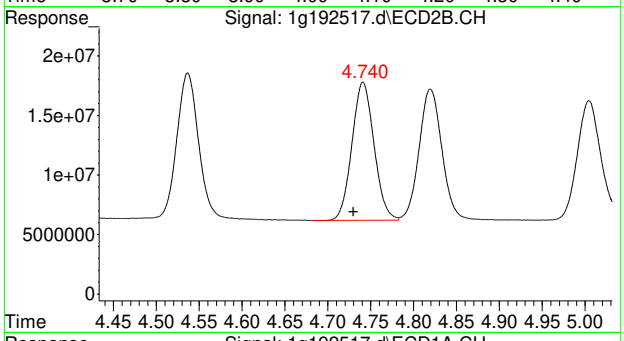
#12 gamma-Chlordane

R.T.: 4.537 min
Delta R.T.: 0.010 min
Response: 216378325
Conc: 20.81 PPB



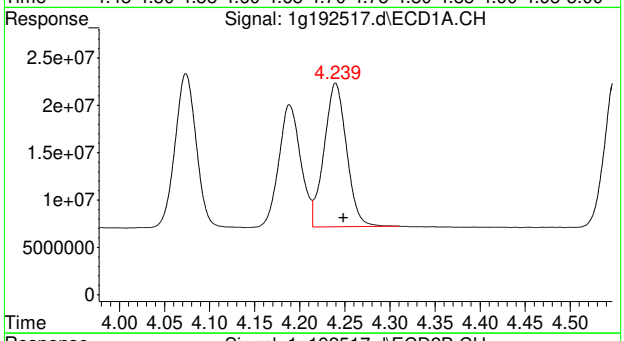
#13 alpha-Chlordane

R.T.: 4.074 min
Delta R.T.: -0.007 min
Response: 265330485
Conc: 21.57 PPB



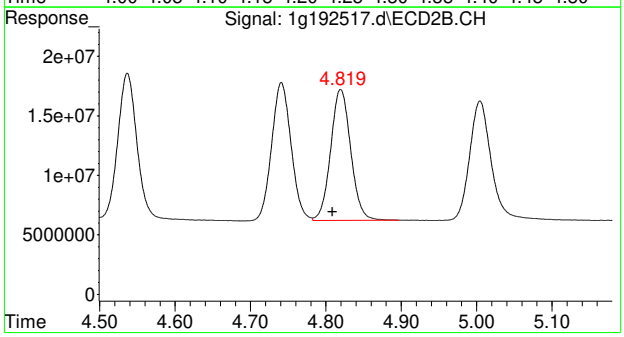
#13 alpha-Chlordane

R.T.: 4.741 min
Delta R.T.: 0.011 min
Response: 208154572
Conc: 20.79 PPB



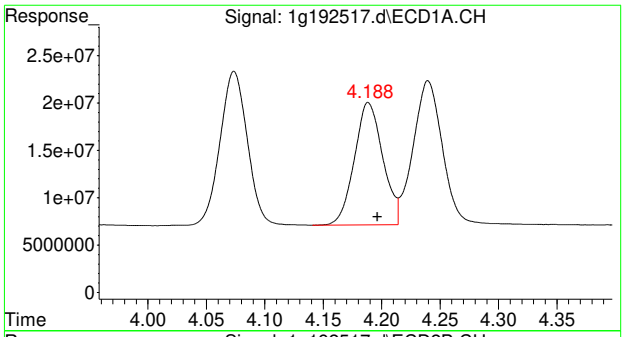
#14 Endosulfan I

R.T.: 4.240 min
Delta R.T.: -0.009 min
Response: 262862441
Conc: 21.71 PPB



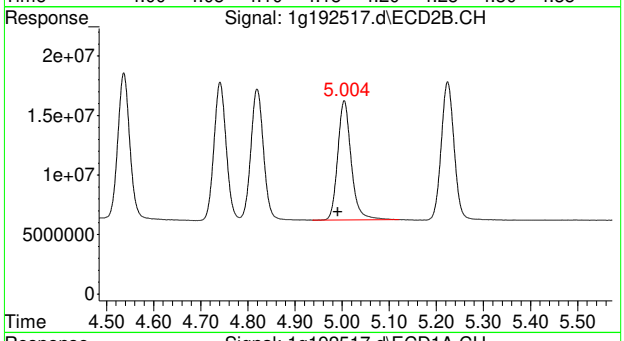
#14 Endosulfan I

R.T.: 4.820 min
Delta R.T.: 0.011 min
Response: 203495953
Conc: 20.55 PPB



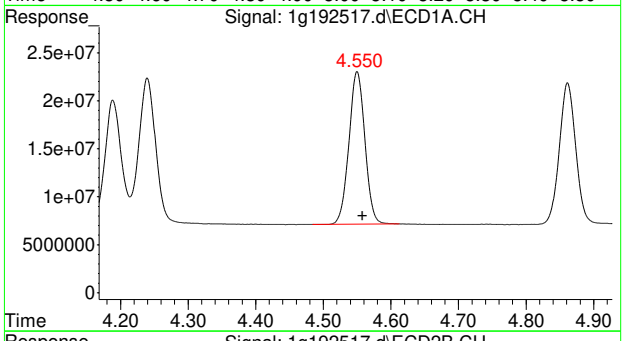
#15 4,4'-DDE

R.T.: 4.188 min
Delta R.T.: -0.008 min
Response: 218352271
Conc: 19.18 PPB



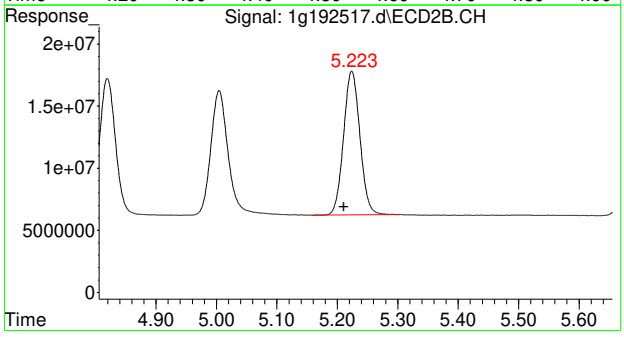
#15 4,4'-DDE

R.T.: 5.005 min
Delta R.T.: 0.014 min
Response: 198918656
Conc: 20.97 PPB



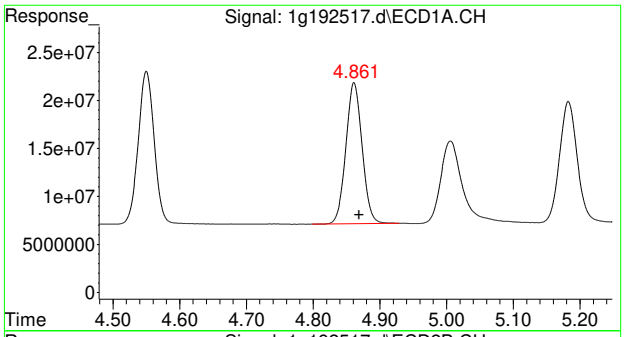
#16 Dieldrin

R.T.: 4.550 min
Delta R.T.: -0.008 min
Response: 262100820
Conc: 20.43 PPB



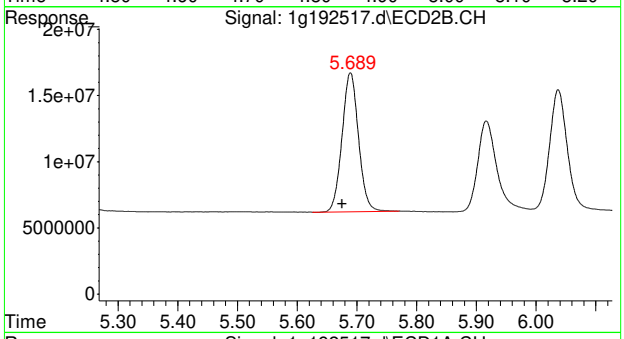
#16 Dieldrin

R.T.: 5.224 min
Delta R.T.: 0.013 min
Response: 218149120
Conc: 20.51 PPB



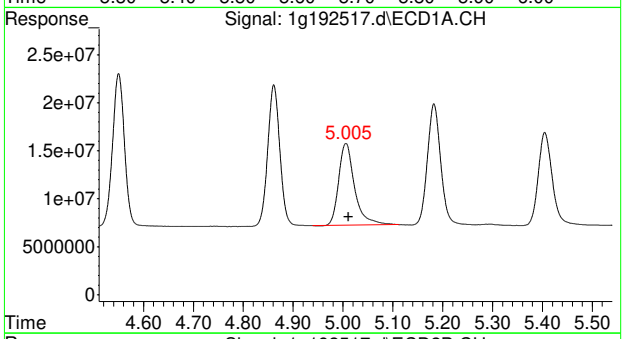
#17 Endrin

R.T.: 4.861 min
Delta R.T.: -0.008 min
Response: 247280873
Conc: 20.31 PPB



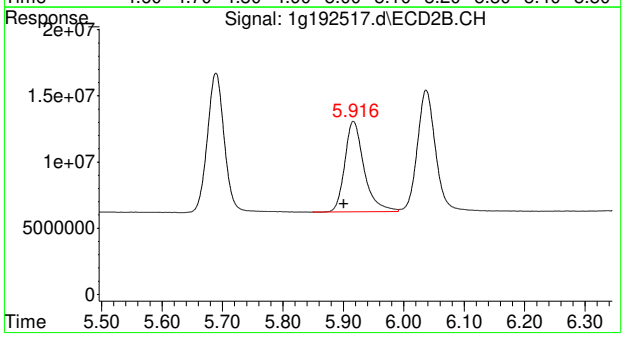
#17 Endrin

R.T.: 5.689 min
Delta R.T.: 0.014 min
Response: 201158150
Conc: 20.36 PPB



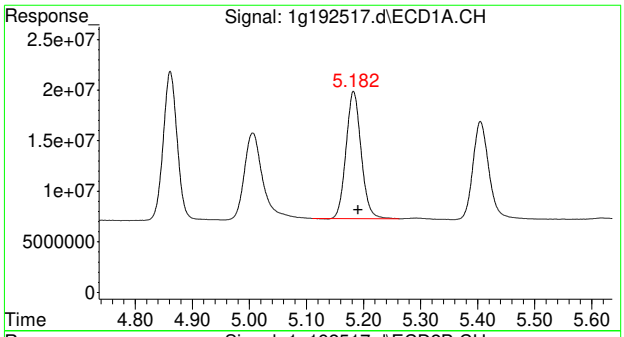
#18 4,4'-DDD

R.T.: 5.006 min
Delta R.T.: -0.005 min
Response: 189415177
Conc: 19.34 PPB



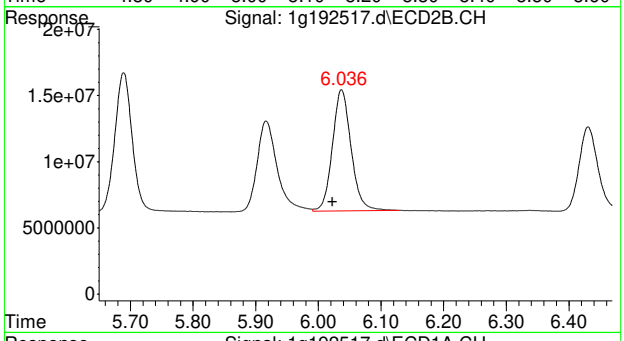
#18 4,4'-DDD

R.T.: 5.917 min
Delta R.T.: 0.016 min
Response: 151249188
Conc: 20.51 PPB



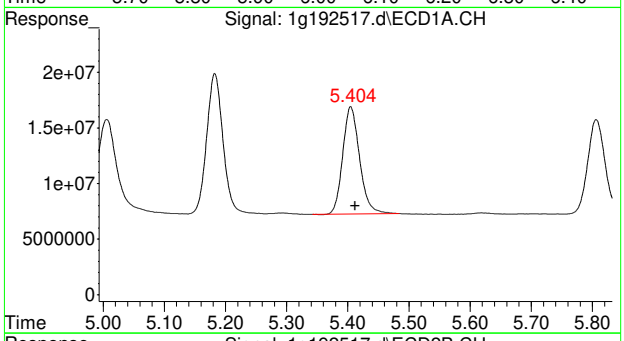
#19 Endosulfan II

R.T.: 5.182 min
Delta R.T.: -0.008 min
Response: 231038239
Conc: 20.68 PPB



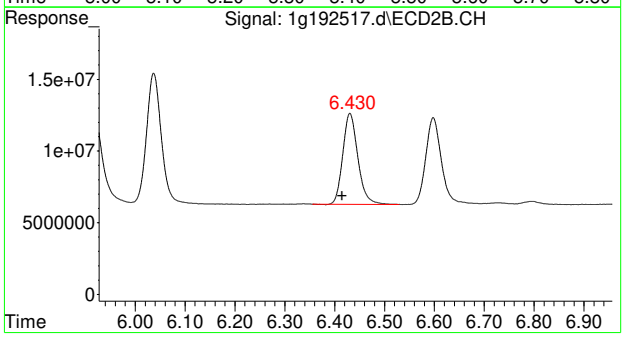
#19 Endosulfan II

R.T.: 6.037 min
Delta R.T.: 0.015 min
Response: 189646666
Conc: 20.24 PPB



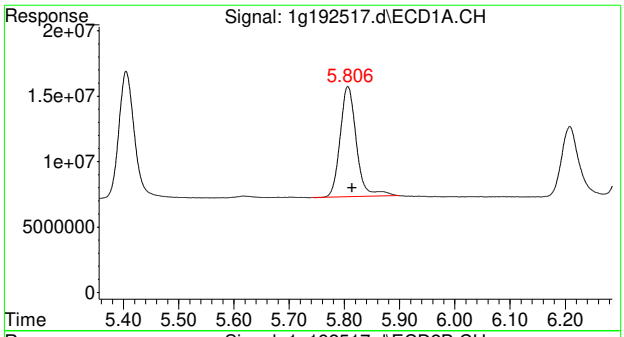
#20 4,4'-DDT

R.T.: 5.405 min
Delta R.T.: -0.007 min
Response: 185202740
Conc: 18.73 PPB



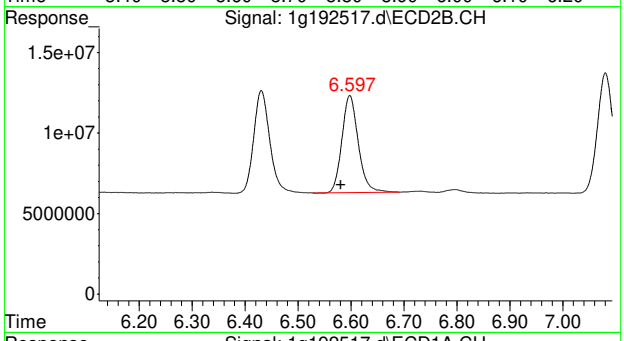
#20 4,4'-DDT

R.T.: 6.431 min
Delta R.T.: 0.016 min
Response: 133162070
Conc: 18.83 PPB



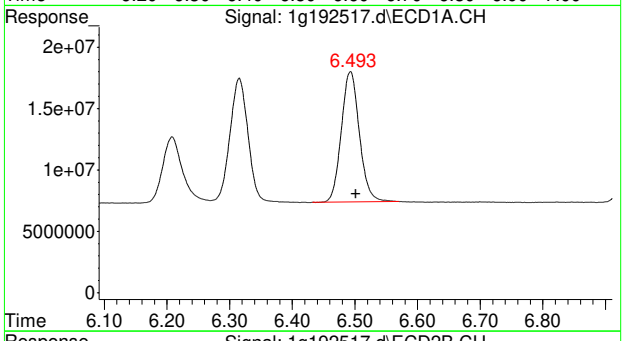
#21 Endrin Aldehyde

R.T.: 5.806 min
Delta R.T.: -0.008 min
Response: 172436761
Conc: 21.91 PPB



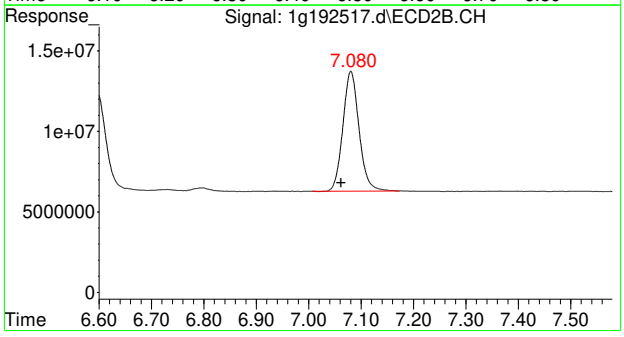
#21 Endrin Aldehyde

R.T.: 6.598 min
Delta R.T.: 0.017 min
Response: 129472053
Conc: 19.14 PPB



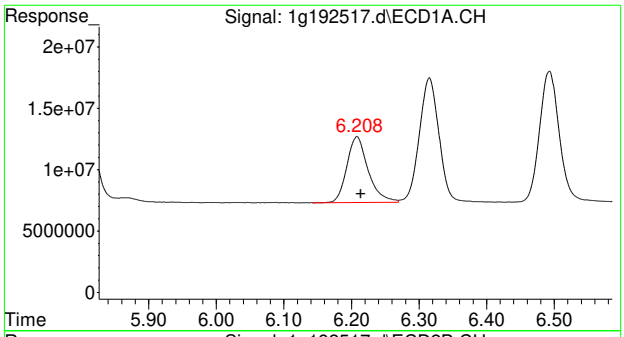
#22 Endosulfan Sulfate

R.T.: 6.493 min
Delta R.T.: -0.009 min
Response: 212824057
Conc: 21.10 PPB



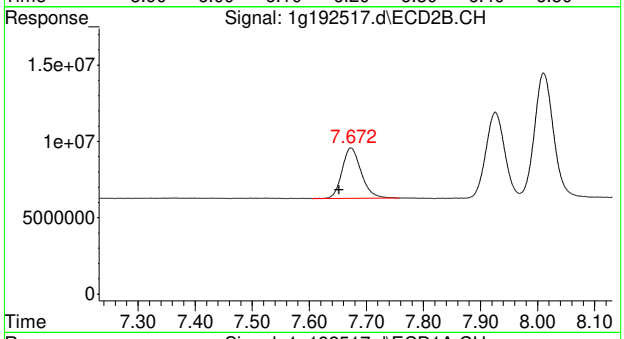
#22 Endosulfan Sulfate

R.T.: 7.080 min
Delta R.T.: 0.019 min
Response: 159459543
Conc: 19.87 PPB



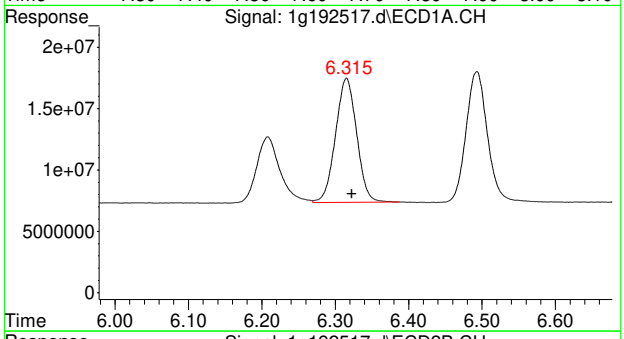
#23 Methoxychlor

R.T.: 6.208 min
Delta R.T.: -0.005 min
Response: 117465590
Conc: 19.84 PPB



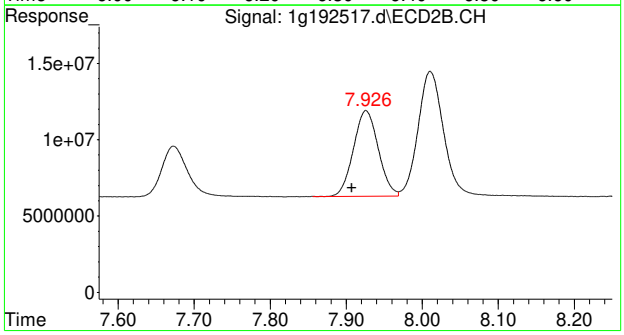
#23 Methoxychlor

R.T.: 7.673 min
Delta R.T.: 0.021 min
Response: 76469683
Conc: 18.20 PPB



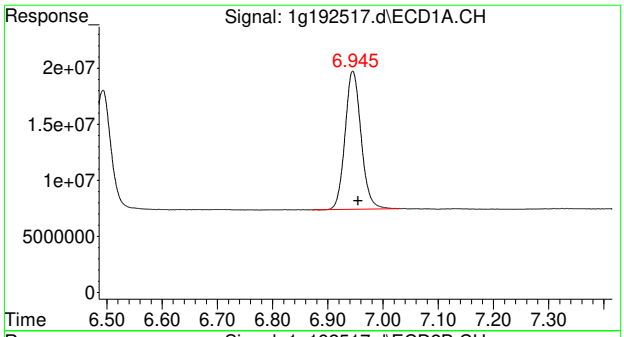
#24 Mirex

R.T.: 6.315 min
Delta R.T.: -0.007 min
Response: 202097591
Conc: 23.06 PPB



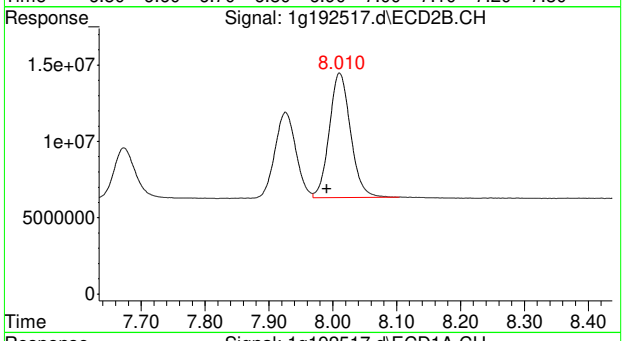
#24 Mirex

R.T.: 7.926 min
Delta R.T.: 0.019 min
Response: 127498387
Conc: 18.82 PPB



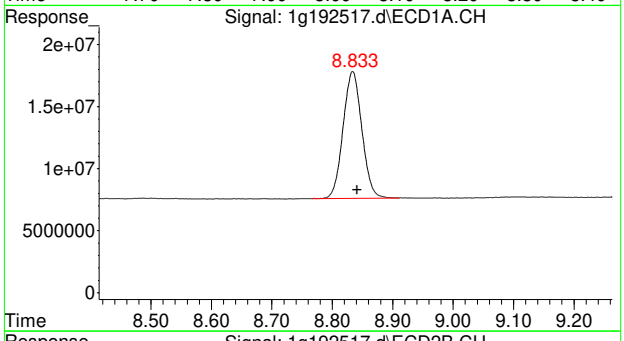
#25 Endrin Ketone

R.T.: 6.945 min
Delta R.T.: -0.009 min
Response: 248639456
Conc: 20.49 PPB



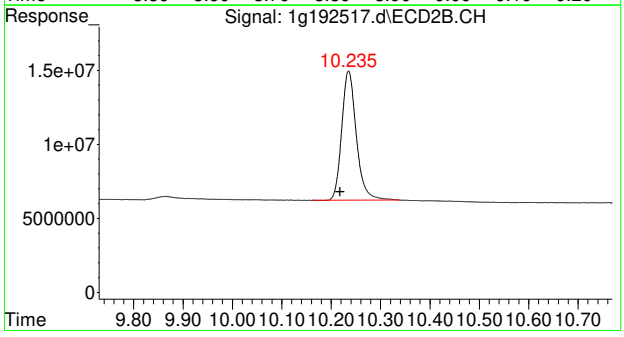
#25 Endrin Ketone

R.T.: 8.011 min
Delta R.T.: 0.020 min
Response: 188557465
Conc: 20.25 PPB



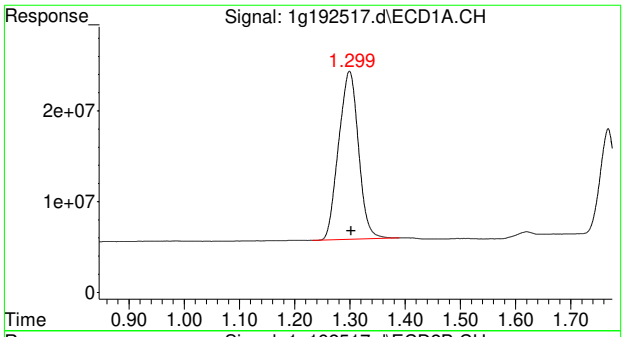
#26 Decachlorobiphenyl

R.T.: 8.834 min
Delta R.T.: -0.007 min
Response: 220931520
Conc: 26.44 PPB



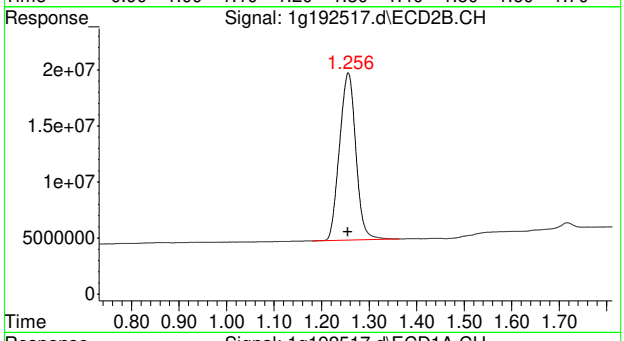
#26 Decachlorobiphenyl

R.T.: 10.235 min
Delta R.T.: 0.017 min
Response: 179529109
Conc: 21.79 PPB



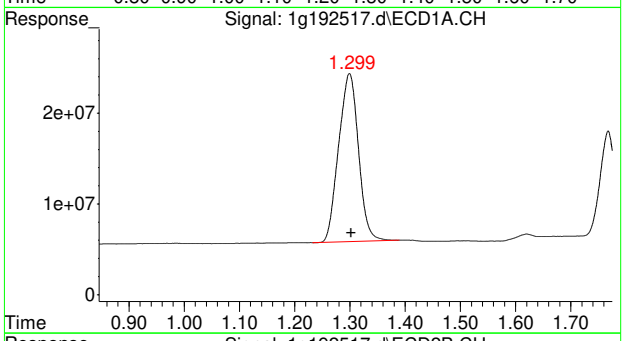
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.299 min
Delta R.T.: -0.003 min
Response: 462539575
Conc: 50.00 PPB



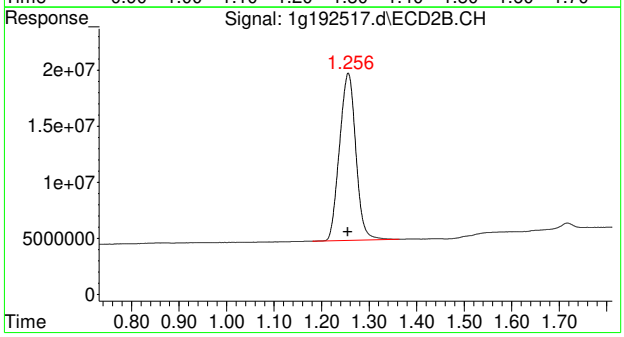
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.256 min
Delta R.T.: 0.001 min
Response: 355808252
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.299 min
Delta R.T.: -0.003 min
Response: 462539575
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.256 min
Delta R.T.: 0.001 min
Response: 355808252
Conc: 50.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
01/30/24 10:42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\1G6859\
Data File : 1g192521.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jan 2024 8:12 am
Operator : rebeccak
Sample : ic6859-500 (Chlordane)
Misc : op51957,g1g6859,250,,,2,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 29 09:28:35 2024
Quant Method : C:\msdchem\1\methods\1PST6859.M
Quant Title : PEST/PCB
QLast Update : Mon Jan 29 09:04:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	1.300	1.257	470.1E6	358.8E6	50.000	50.000
27)	I 1-bromo-2...	1.300	1.257	470.1E6	358.8E6	50.000	50.000
33)	I 1-bromo-2...	1.300	1.257	470.1E6	358.8E6	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.768	1.875	479.6E6	280.4E6	52.039	64.698
	Spiked Amount 40.000	Range 30 - 150		Recovery = 130.10%		161.74%#	
26)	SA Decachlor...	8.833	10.235	453.9E6	385.5E6	53.446	46.406
	Spiked Amount 40.000			Recovery = 133.62%		116.02%	
	Target Compounds						
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
34)	Chlordane...	2.821	3.177	314.0E6	244.6E6	521.617	491.890
35)	Chlordane...	3.249	3.727	189.3E6	128.5E6	555.231	496.477
36)	Chlordane...	3.915	4.537	613.4E6	486.0E6	486.929	484.165
37)	Chlordane...	4.065	4.741	967.7E6	768.9E6	486.195	468.562m
38)	Chlordane...	5.087	6.110	139.1E6	112.1E6	468.970	471.847

SemiQuant Compounds - Not Calibrated on this Instrument

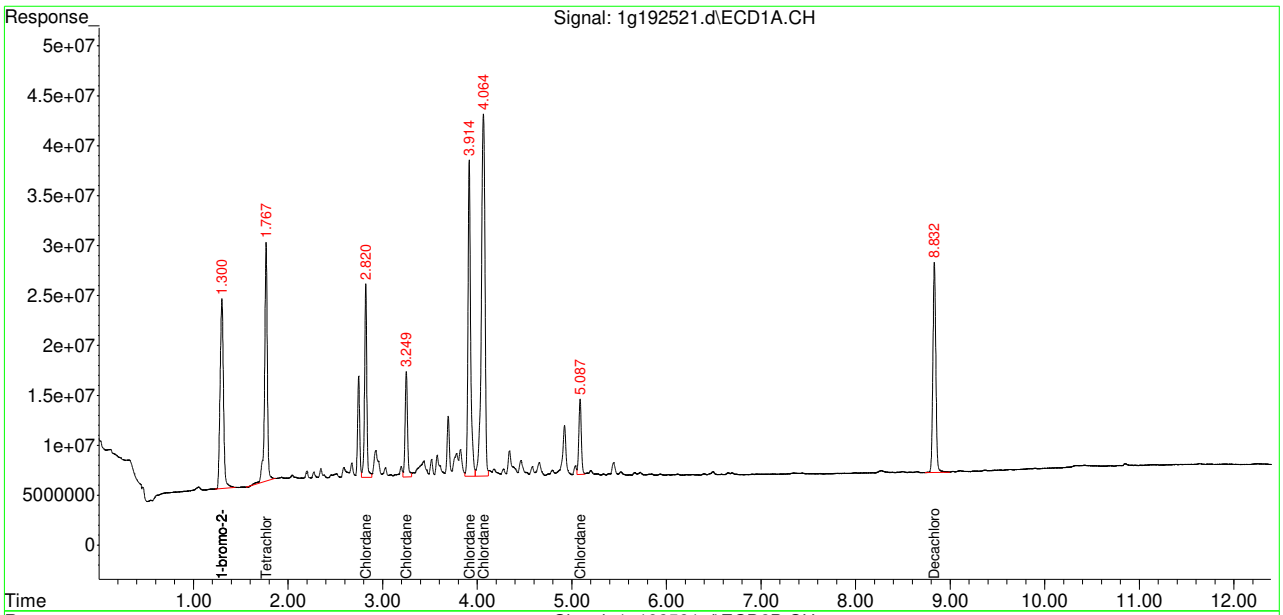
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

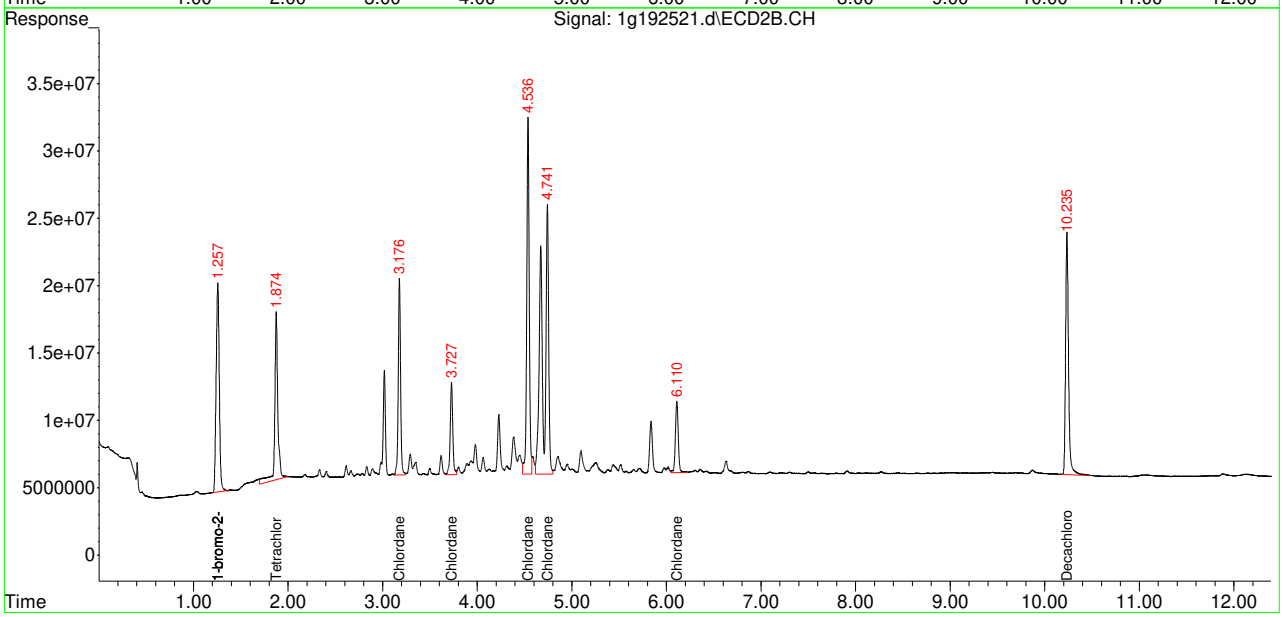
Quantitation Report (QT Reviewed)

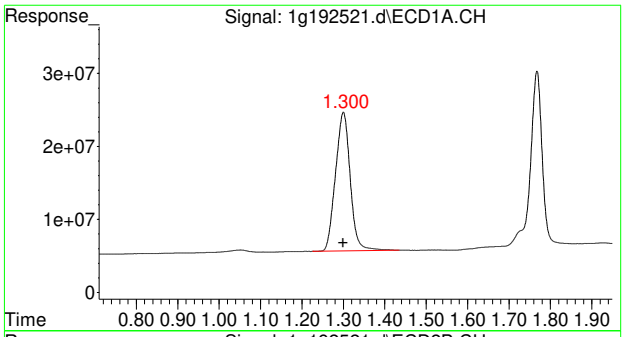
Data Path : C:\msdchem\1\data\1G6859\
Data File : 1g192521.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jan 2024 8:12 am
Operator : rebeccak
Sample : ic6859-500 (Chlordane)
Misc : op51957,g1g6859,250,,,2,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 29 09:28:35 2024
Quant Method : C:\msdchem\1\methods\1PST6859.M
Quant Title : PEST/PCB
QLast Update : Mon Jan 29 09:04:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

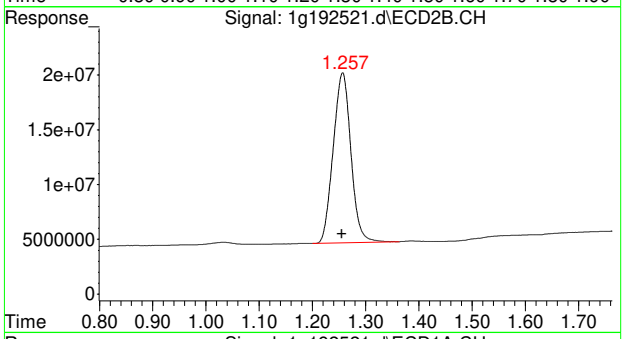






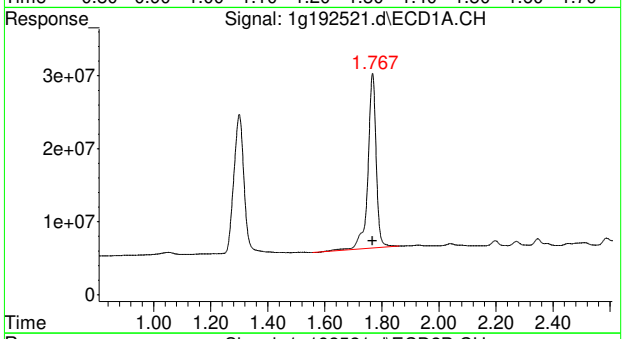
#1 1-bromo-2-nitrobenzene

R.T.: 1.300 min
Delta R.T.: 0.001 min
Response: 470128949
Conc: 50.00 PPB



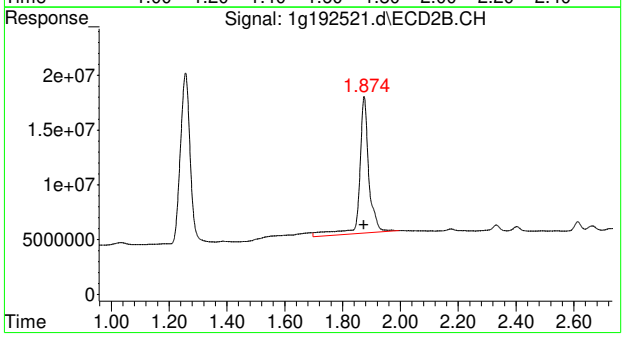
#1 1-bromo-2-nitrobenzene

R.T.: 1.257 min
Delta R.T.: 0.002 min
Response: 358782352
Conc: 50.00 PPB



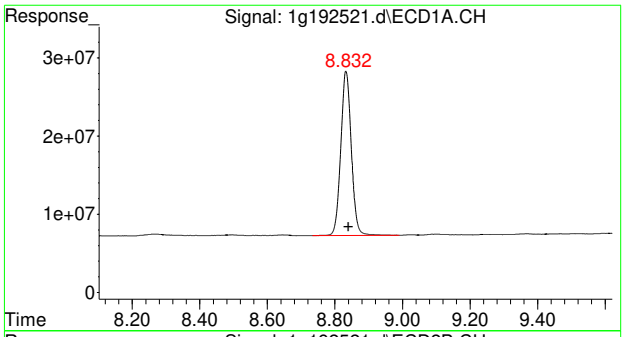
#2 Tetrachloro-m-xylene

R.T.: 1.768 min
Delta R.T.: 0.000 min
Response: 479590507
Conc: 52.04 PPB



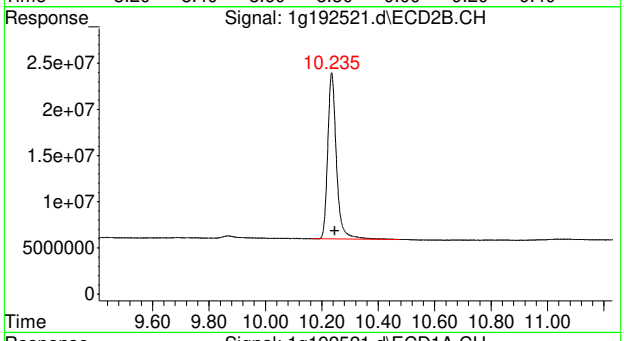
#2 Tetrachloro-m-xylene

R.T.: 1.875 min
Delta R.T.: 0.002 min
Response: 280433182
Conc: 64.70 PPB



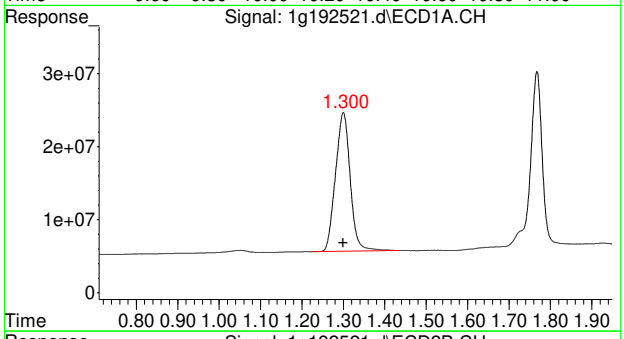
#26 Decachlorobiphenyl

R.T.: 8.833 min
Delta R.T.: -0.006 min
Response: 453949727
Conc: 53.45 PPB



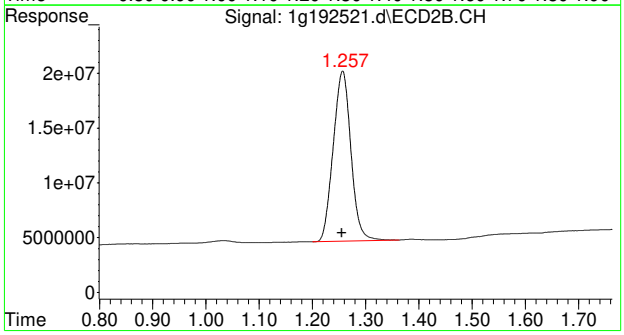
#26 Decachlorobiphenyl

R.T.: 10.235 min
Delta R.T.: -0.011 min
Response: 385490093
Conc: 46.41 PPB



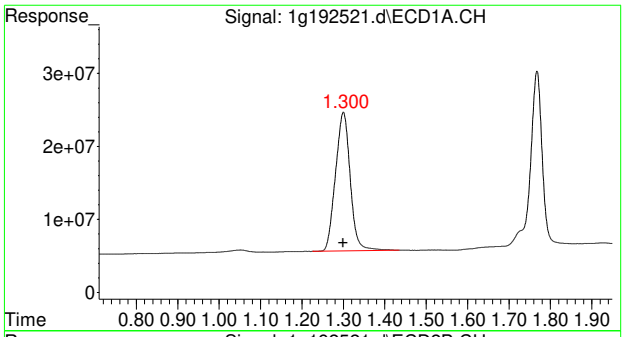
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.300 min
Delta R.T.: 0.001 min
Response: 470128949
Conc: 50.00 PPB



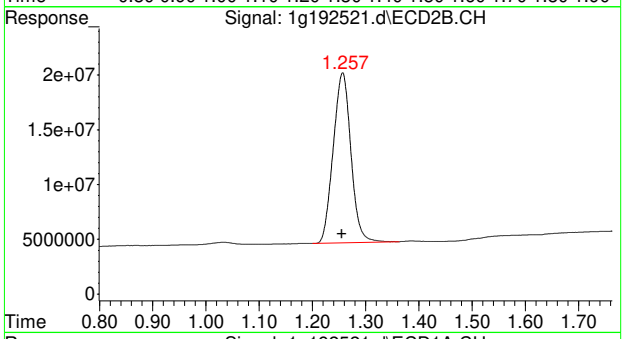
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.257 min
Delta R.T.: 0.002 min
Response: 358782352
Conc: 50.00 PPB



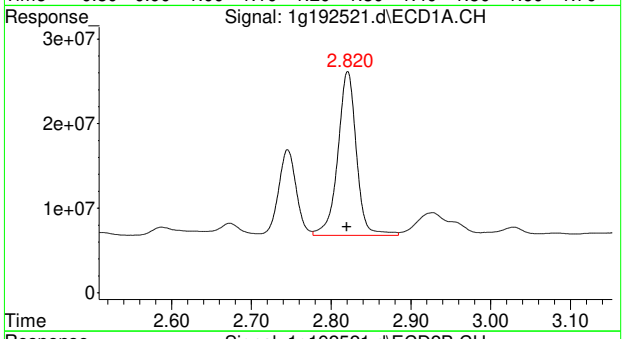
#33 1-bromo-2-nitrobenzeneB

R.T.: 1.300 min
Delta R.T.: 0.001 min
Response: 470128949
Conc: 50.00 PPB



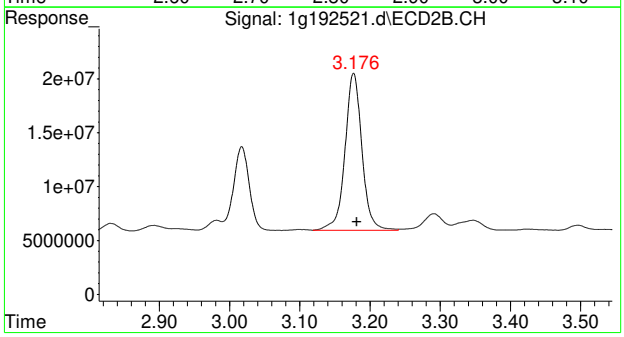
#33 1-bromo-2-nitrobenzeneB

R.T.: 1.257 min
Delta R.T.: 0.002 min
Response: 358782352
Conc: 50.00 PPB



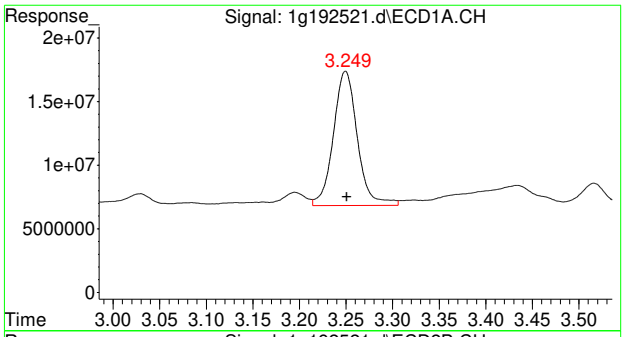
#34 Chlordane {A}

R.T.: 2.821 min
Delta R.T.: 0.000 min
Response: 313959623
Conc: 521.62 PPB



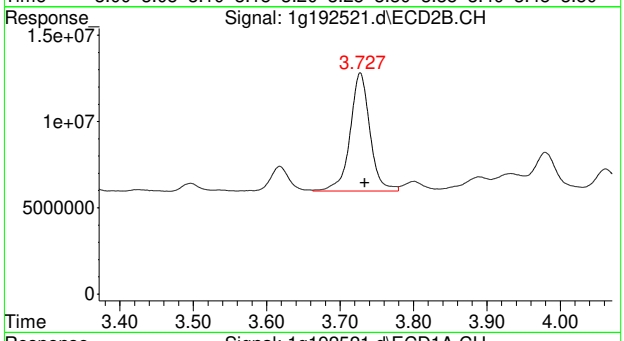
#34 Chlordane {A}

R.T.: 3.177 min
Delta R.T.: -0.004 min
Response: 244553281
Conc: 491.89 PPB



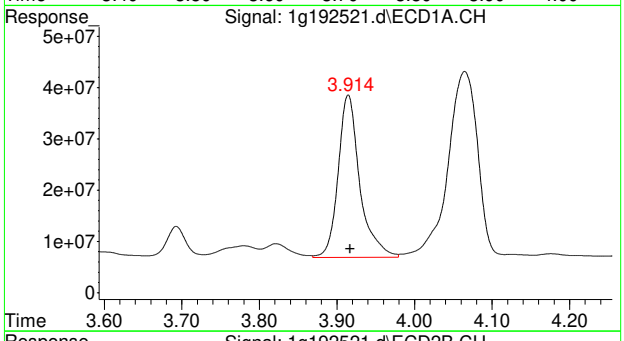
#35 Chlordane {B}

R.T.: 3.249 min
Delta R.T.: -0.001 min
Response: 189280092
Conc: 555.23 PPB



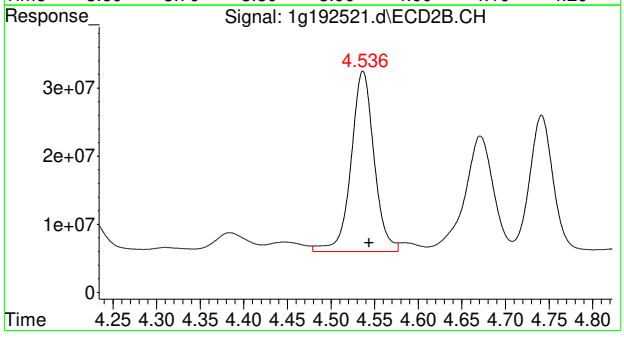
#35 Chlordane {B}

R.T.: 3.727 min
Delta R.T.: -0.006 min
Response: 128492574
Conc: 496.48 PPB



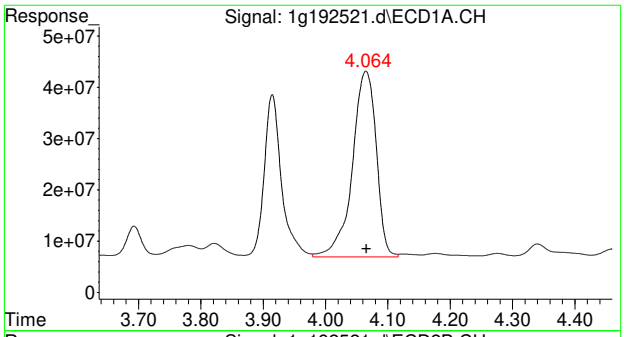
#36 Chlordane {C}

R.T.: 3.915 min
Delta R.T.: -0.002 min
Response: 613414269
Conc: 486.93 PPB



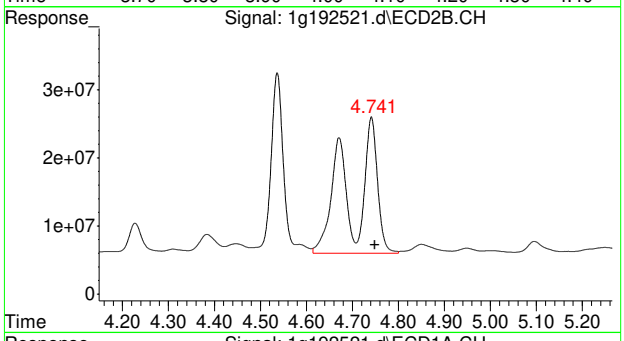
#36 Chlordane {C}

R.T.: 4.537 min
Delta R.T.: -0.007 min
Response: 486042452
Conc: 484.16 PPB



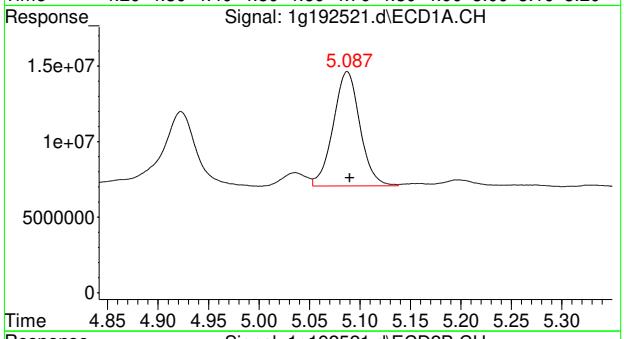
#37 Chlordane {D}

R.T.: 4.065 min
Delta R.T.: 0.000 min
Response: 967669106
Conc: 486.19 PPB



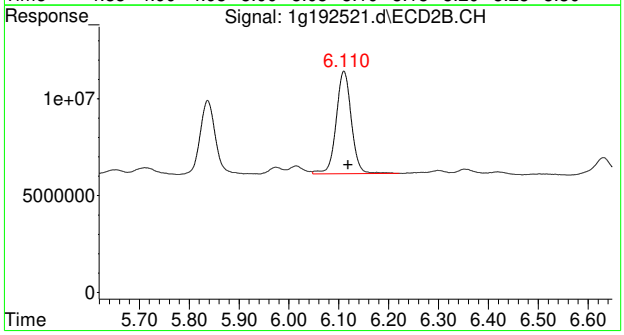
#37 Chlordane {D}

R.T.: 4.741 min
Delta R.T.: -0.007 min
Response: 768931431
Conc: 468.56 PPB m



#38 Chlordane {E}

R.T.: 5.087 min
Delta R.T.: -0.002 min
Response: 139111937
Conc: 468.97 PPB



#38 Chlordane {E}

R.T.: 6.110 min
Delta R.T.: -0.008 min
Response: 112125062
Conc: 471.85 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
01/30/24 10:42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\1G6859\
Data File : 1g192522.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jan 2024 8:28 am
Operator : rebeccak
Sample : ic6859-500 (Toxaphene)
Misc : op51957,g1g6859,250,,,2,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 29 09:41:07 2024
Quant Method : C:\msdchem\1\methods\1PST6859.M
Quant Title : PEST/PCB
QLast Update : Mon Jan 29 09:04:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	1.300	1.257	491.9E6	377.1E6	50.000	50.000
27)	I 1-bromo-2...	1.300	1.257	491.9E6	377.1E6	50.000	50.000
33)	I 1-bromo-2...	1.300	1.257	491.9E6	377.1E6	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.767	1.875	460.9E6	292.3E6	47.797	64.156 #
	Spiked Amount 40.000	Range 30 - 150		Recovery = 119.49%		160.39%#	
26)	SA Decachlor...	8.839	10.249	470.5E6	380.2E6	52.946	43.539
	Spiked Amount 40.000			Recovery = 132.37%		108.85%	
	Target Compounds						
28)	L8 Toxaphene{A}	4.053	5.380	31090748	23654973	558.299	536.109
29)	L8 Toxaphene{B}	4.680	6.183	43153741	103.0E6	550.621m	541.222
30)	L8 Toxaphene{C}	5.352	6.497	84200725	45975306	520.260m	545.176
31)	L8 Toxaphene{D}	5.687	6.629	86923322	83913342	517.664m	537.110m
32)	L8 Toxaphene{E}	6.339	7.507	112.3E6	72108738	522.357m	486.979m
	Sum Toxaphene			357.7E6	328.7E6	2669.200	2646.595
Average	Toxaphene					533.840	529.319

SemiQuant Compounds - Not Calibrated on this Instrument

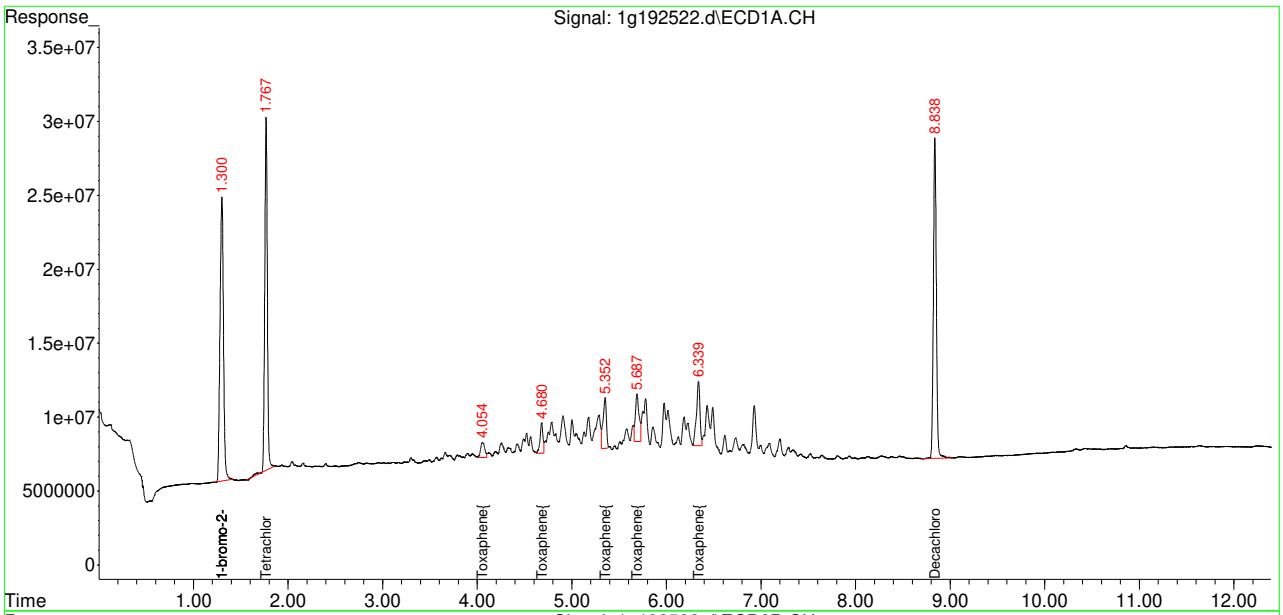
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

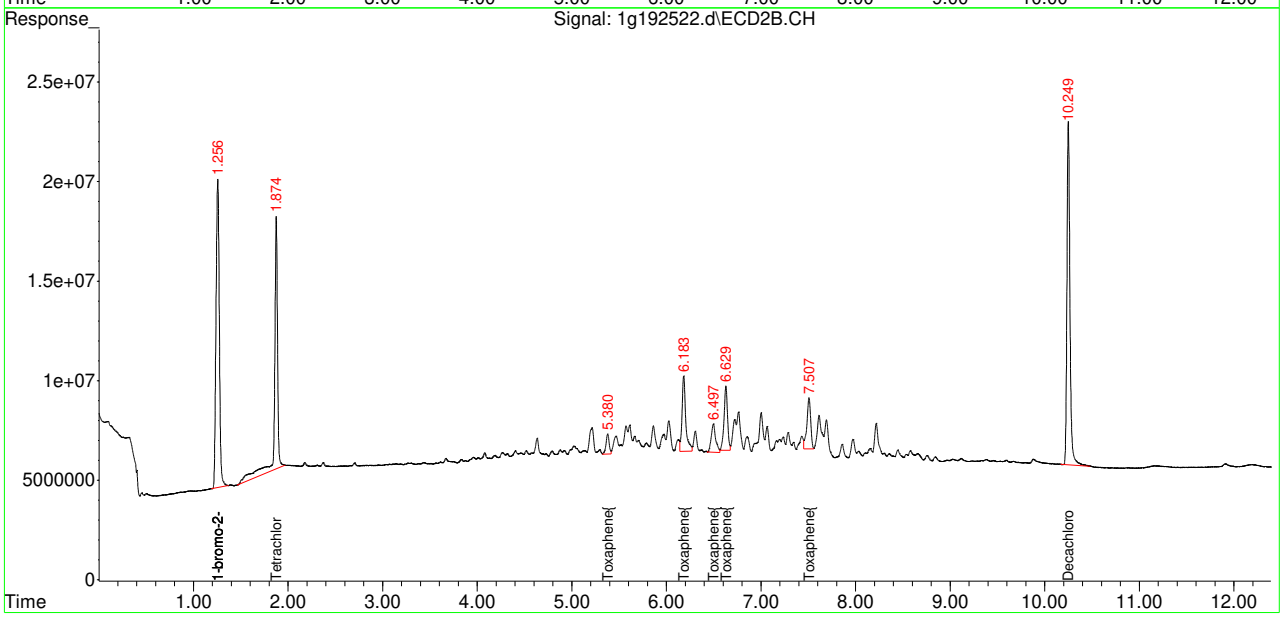
Quantitation Report (QT Reviewed)

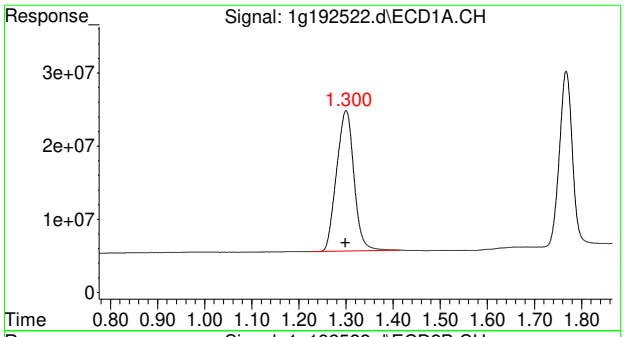
Data Path : C:\msdchem\1\data\1G6859\
Data File : 1g192522.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jan 2024 8:28 am
Operator : rebeccak
Sample : ic6859-500 (Toxaphene)
Misc : op51957,g1g6859,250,,,2,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 29 09:41:07 2024
Quant Method : C:\msdchem\1\methods\1PST6859.M
Quant Title : PEST/PCB
QLast Update : Mon Jan 29 09:04:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

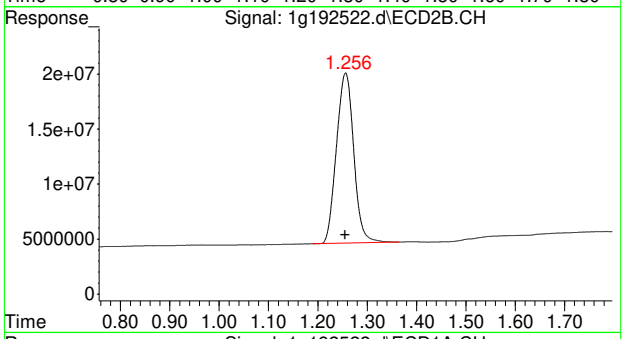






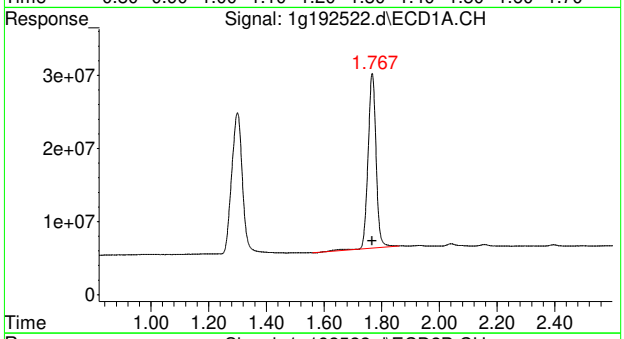
#1 1-bromo-2-nitrobenzene

R.T.: 1.300 min
Delta R.T.: 0.001 min
Response: 491922790
Conc: 50.00 PPB



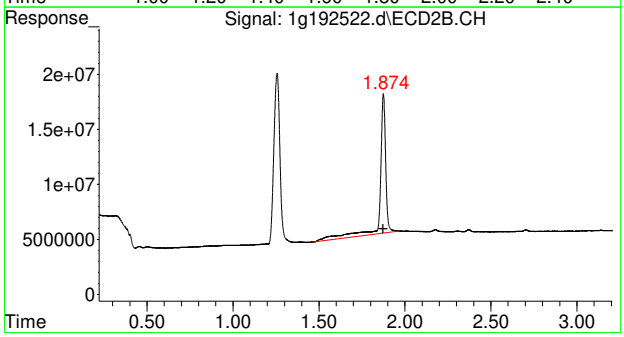
#1 1-bromo-2-nitrobenzene

R.T.: 1.257 min
Delta R.T.: 0.001 min
Response: 377132966
Conc: 50.00 PPB



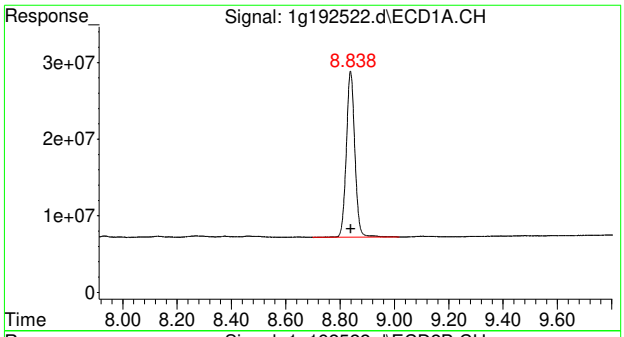
#2 Tetrachloro-m-xylene

R.T.: 1.767 min
Delta R.T.: 0.000 min
Response: 460924633
Conc: 47.80 PPB



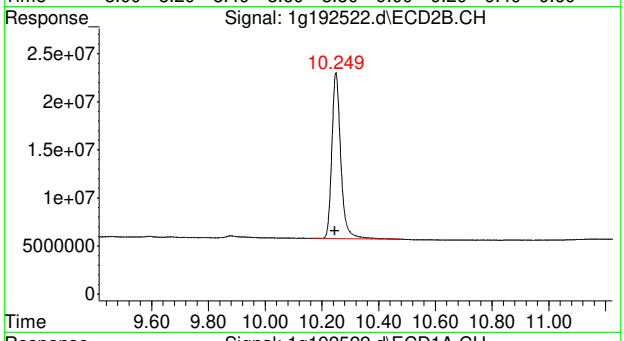
#2 Tetrachloro-m-xylene

R.T.: 1.875 min
Delta R.T.: 0.002 min
Response: 292309434
Conc: 64.16 PPB



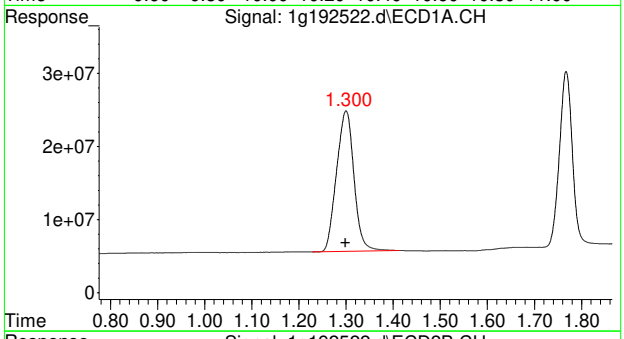
#26 Decachlorobiphenyl

R.T.: 8.839 min
Delta R.T.: 0.000 min
Response: 470549007
Conc: 52.95 PPB



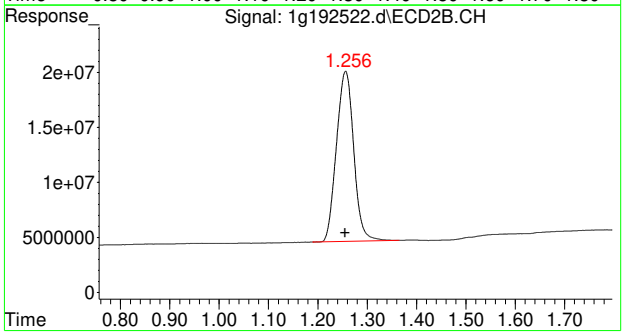
#26 Decachlorobiphenyl

R.T.: 10.249 min
Delta R.T.: 0.004 min
Response: 380168528
Conc: 43.54 PPB



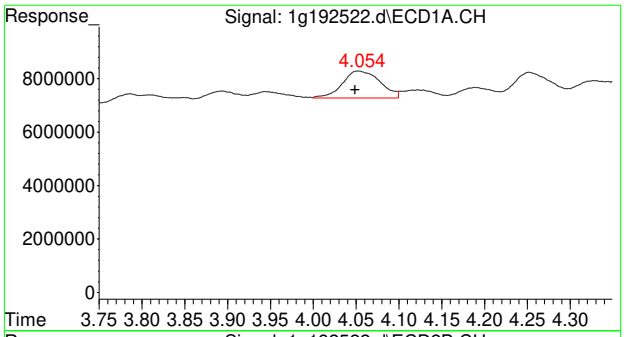
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.300 min
Delta R.T.: 0.001 min
Response: 491922790
Conc: 50.00 PPB



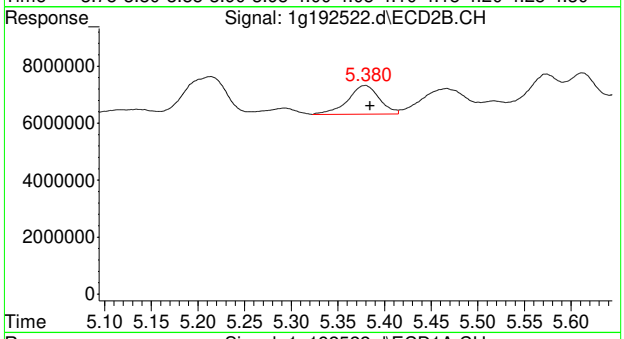
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.257 min
Delta R.T.: 0.001 min
Response: 377132966
Conc: 50.00 PPB



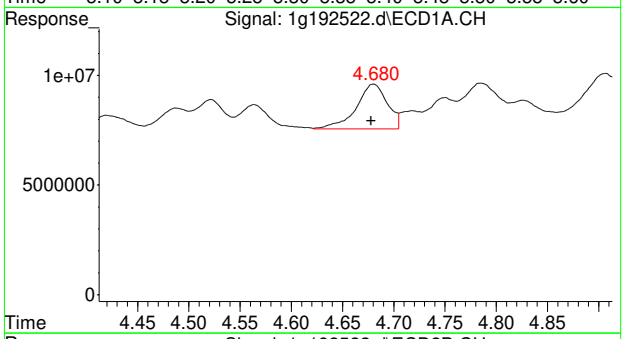
#28 Toxaphene{A}

R.T.: 4.053 min
Delta R.T.: 0.004 min
Response: 31090748
Conc: 558.30 PPB



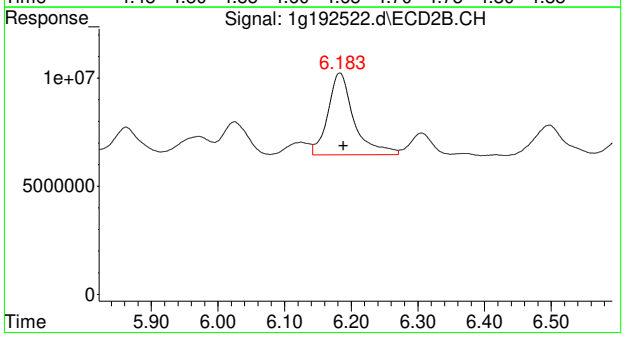
#28 Toxaphene{A}

R.T.: 5.380 min
Delta R.T.: -0.004 min
Response: 23654973
Conc: 536.11 PPB



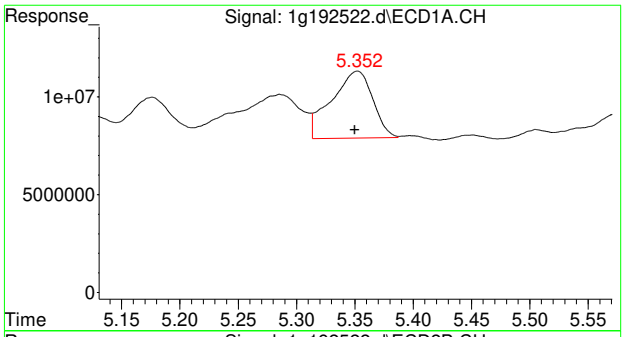
#29 Toxaphene{B}

R.T.: 4.680 min
Delta R.T.: 0.002 min
Response: 43153741
Conc: 550.62 PPB m



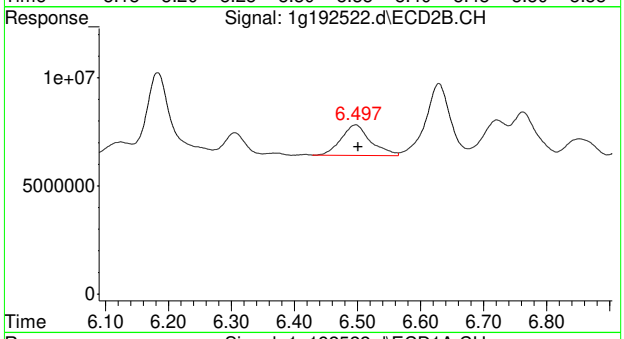
#29 Toxaphene{B}

R.T.: 6.183 min
Delta R.T.: -0.005 min
Response: 103000178
Conc: 541.22 PPB



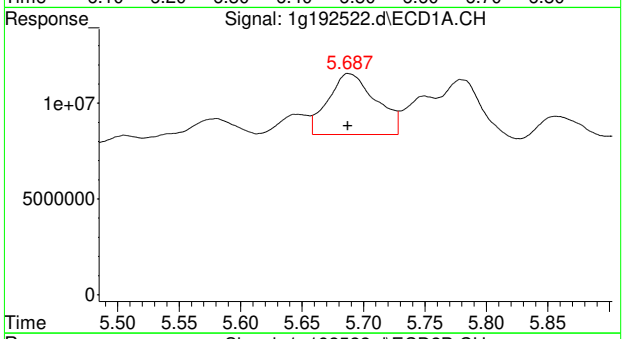
#30 Toxaphene{C}

R.T.: 5.352 min
Delta R.T.: 0.002 min
Response: 84200725
Conc: 520.26 PPB m



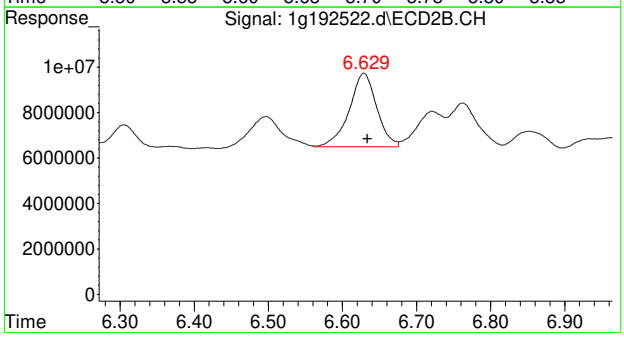
#30 Toxaphene{C}

R.T.: 6.497 min
Delta R.T.: -0.004 min
Response: 45975306
Conc: 545.18 PPB



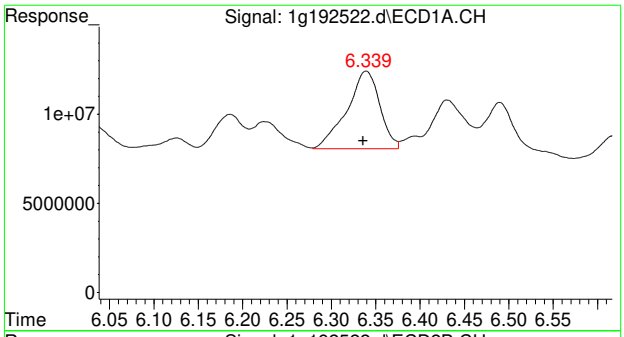
#31 Toxaphene{D}

R.T.: 5.687 min
Delta R.T.: 0.000 min
Response: 86923322
Conc: 517.66 PPB m



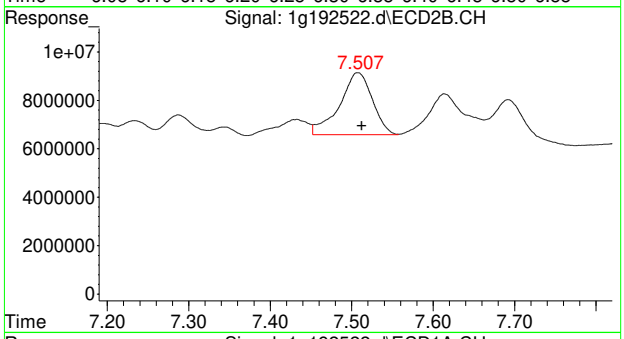
#31 Toxaphene{D}

R.T.: 6.629 min
Delta R.T.: -0.005 min
Response: 83913342
Conc: 537.11 PPB m



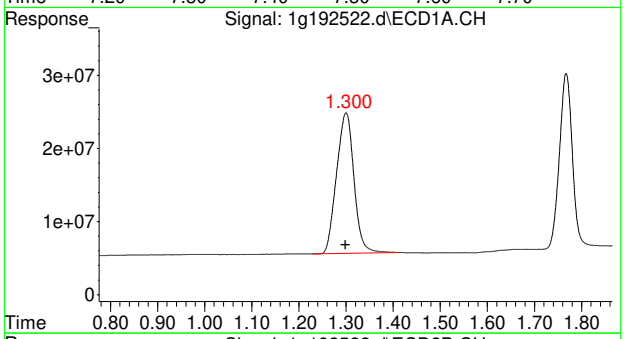
#32 Toxaphene{E}

R.T.: 6.339 min
Delta R.T.: 0.003 min
Response: 112325331
Conc: 522.36 PPB m



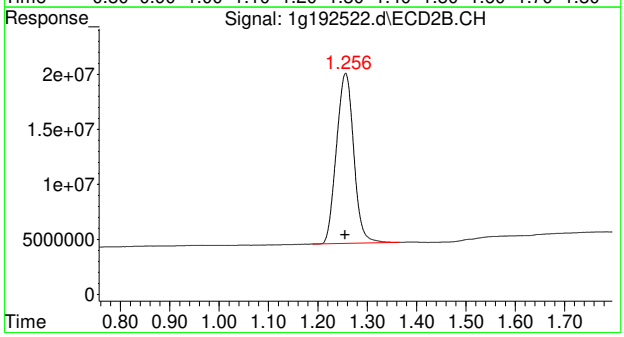
#32 Toxaphene{E}

R.T.: 7.507 min
Delta R.T.: -0.005 min
Response: 72108738
Conc: 486.98 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.300 min
Delta R.T.: 0.001 min
Response: 491922790
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.257 min
Delta R.T.: 0.001 min
Response: 377132966
Conc: 50.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
06/06/24 08:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g5g3634\
Data File : 5G138214.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Jun 2024 9:13 am
Operator : rebeccak
Sample : ic3634-50 (chlordane)
Misc : op55026,G5G3634,5.0,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 13:25:02 2024
Quant Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M
Quant Title : PEST/PCB
QLast Update : Wed Jun 05 13:24:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.620	4.920	2189.1E6	2278.1E6	5.000	5.000
27)	I 1-bromo-2...	4.620	4.920	2189.1E6	2278.1E6	5.000	5.000
33)	I 1-bromo-2...	4.620	4.920	2189.1E6	2278.1E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.249	5.741	909.5E6	2364.0E6	3.595	4.549 #
	Spiked Amount 40.000	Range 30 - 150		Recovery =		8.99%#	11.37%#
26)	SA Decachlor...	12.457	14.205	2491.7E6	1766.3E6	4.667	5.822
	Spiked Amount 40.000			Recovery =		11.67%	14.56%
	Target Compounds						
34)	Chlordane...	6.491	7.341	1718.3E6	1230.5E6	44.178	34.380
35)	Chlordane...	6.959	7.964	927.6E6	972.8E6	45.562	49.296
36)	Chlordane...	7.667	8.844	4079.6E6	3739.5E6	50.807	52.093
37)	Chlordane...	7.824	9.063	6337.5E6	6107.5E6	49.762	54.299m
38)	Chlordane...	8.851	10.483	901.5E6	817.8E6	48.632	47.634
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

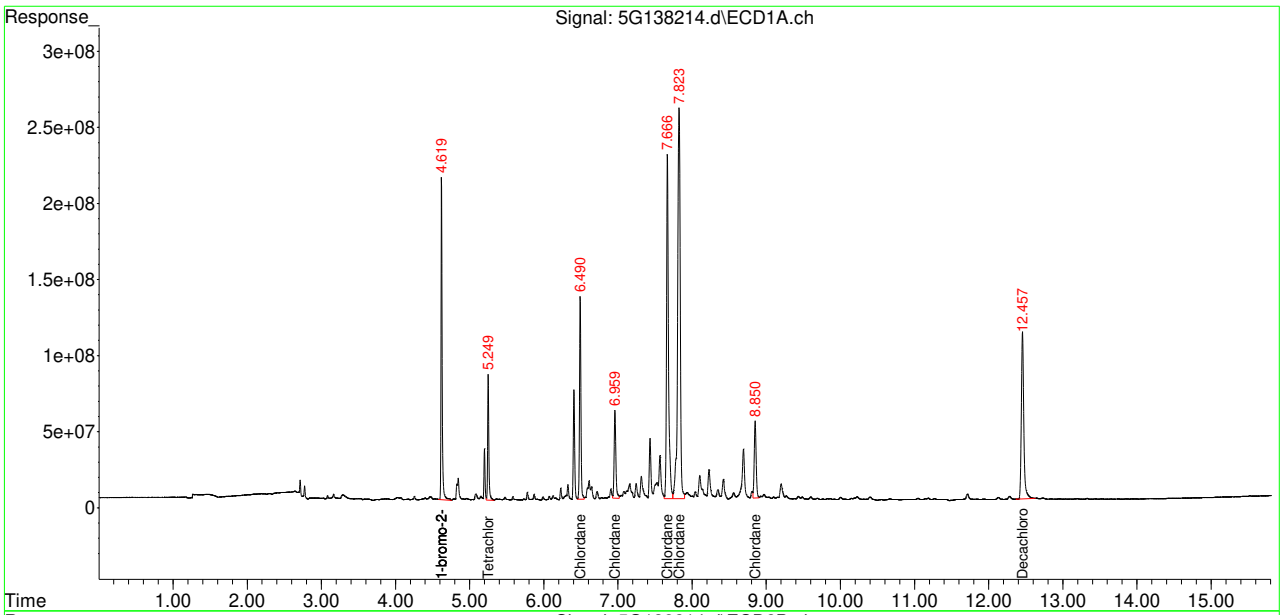
9.3.4
9

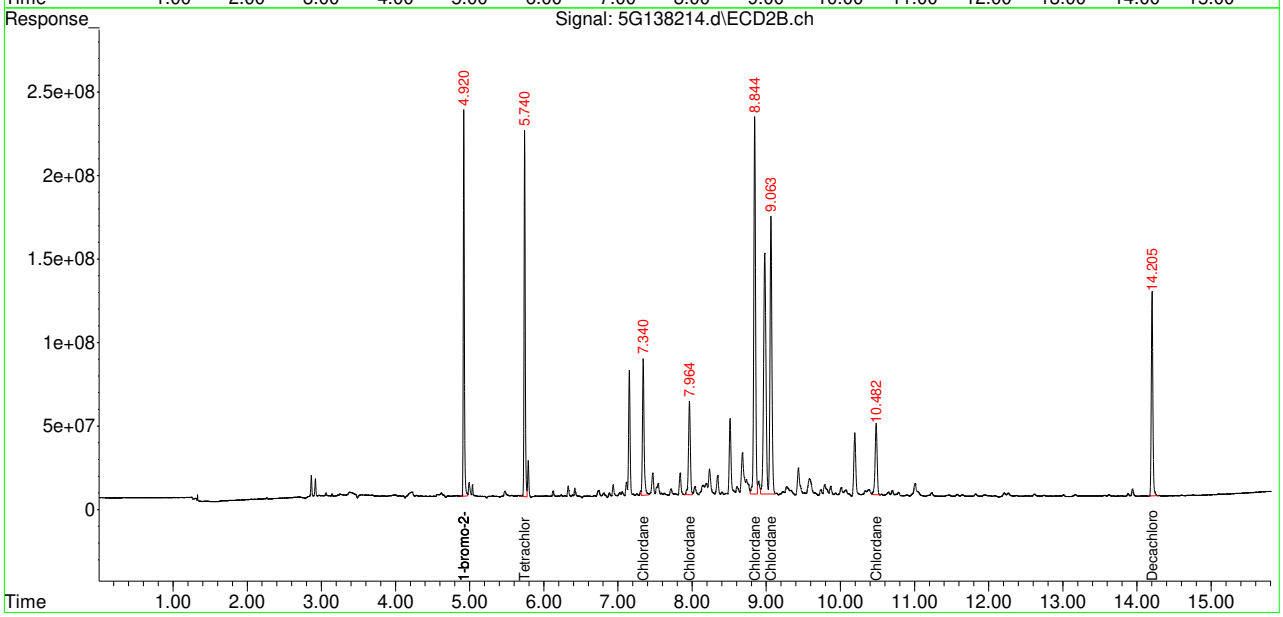
Quantitation Report (QT Reviewed)

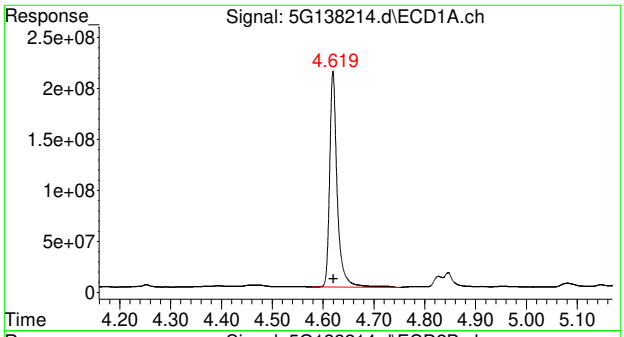
Data Path : C:\msdchem\1\data\g5g3634\
Data File : 5G138214.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Jun 2024 9:13 am
Operator : rebeccak
Sample : ic3634-50 (chlordane)
Misc : op55026,G5G3634,5.0,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 13:25:02 2024
Quant Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M
Quant Title : PEST/PCB
QLast Update : Wed Jun 05 13:24:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

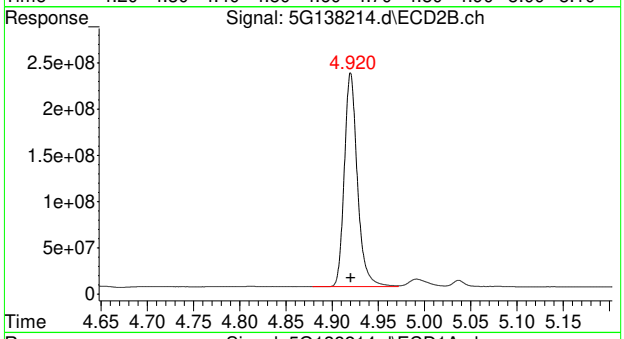






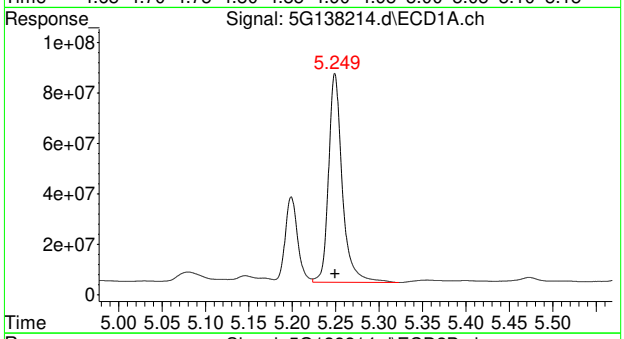
#1 1-bromo-2-nitrobenzene

R.T.: 4.620 min
Delta R.T.: 0.000 min
Response: 2189144089
Conc: 5.00 PPB



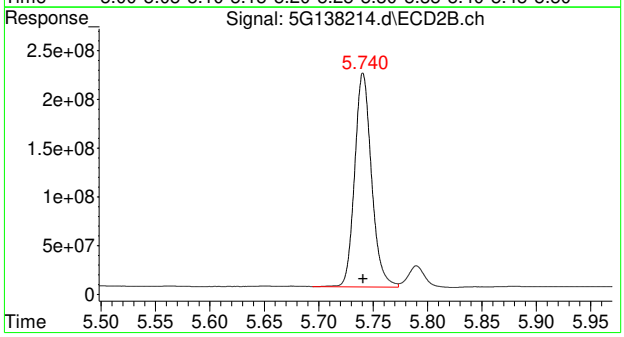
#1 1-bromo-2-nitrobenzene

R.T.: 4.920 min
Delta R.T.: 0.000 min
Response: 2278071723
Conc: 5.00 PPB



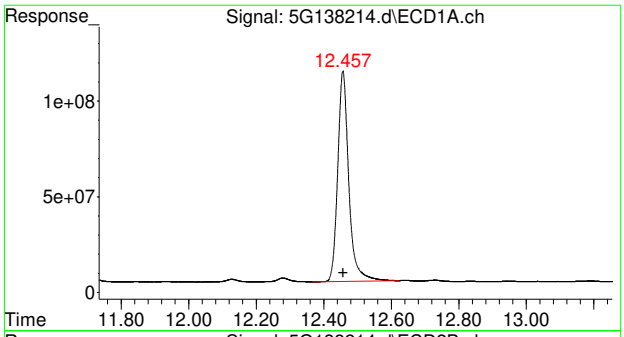
#2 Tetrachloro-m-xylene

R.T.: 5.249 min
Delta R.T.: 0.000 min
Response: 909543766
Conc: 3.60 PPB



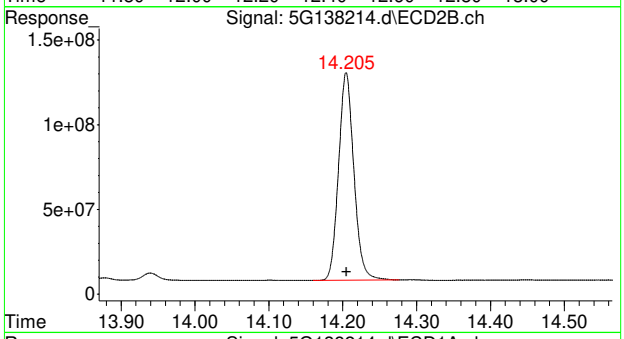
#2 Tetrachloro-m-xylene

R.T.: 5.741 min
Delta R.T.: 0.000 min
Response: 2364030584
Conc: 4.55 PPB



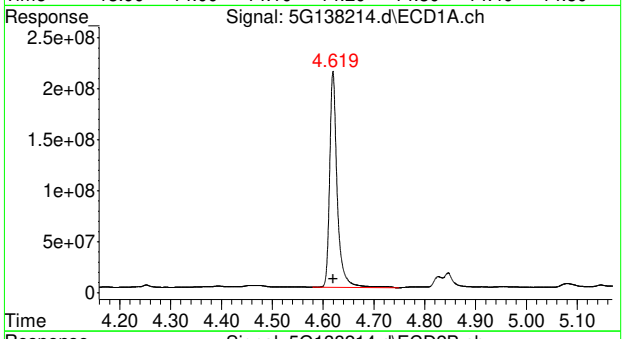
#26 Decachlorobiphenyl

R.T.: 12.457 min
Delta R.T.: 0.000 min
Response: 2491704442
Conc: 4.67 PPB



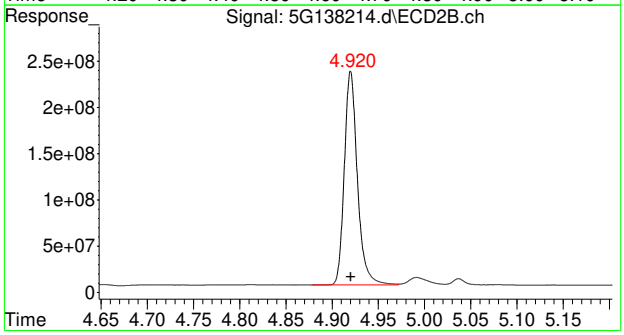
#26 Decachlorobiphenyl

R.T.: 14.205 min
Delta R.T.: 0.000 min
Response: 1766333542
Conc: 5.82 PPB



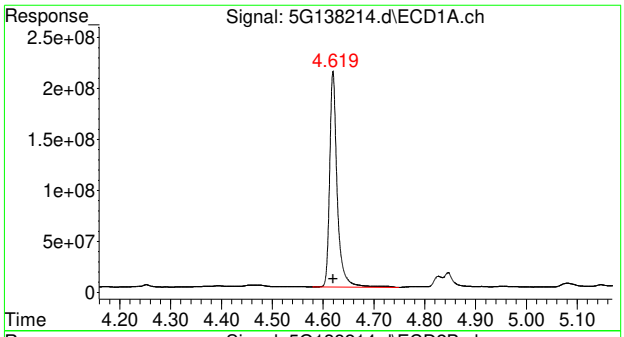
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.620 min
Delta R.T.: 0.000 min
Response: 2189144089
Conc: 5.00 PPB



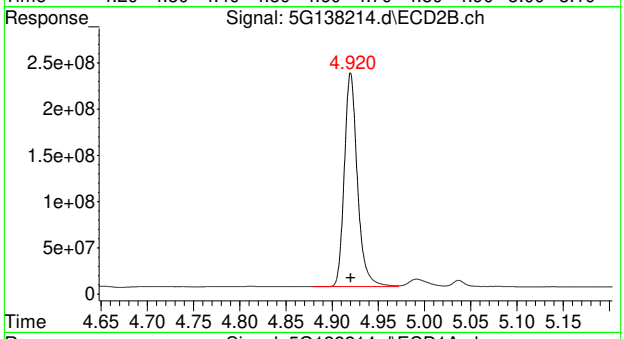
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.920 min
Delta R.T.: 0.000 min
Response: 2278071723
Conc: 5.00 PPB



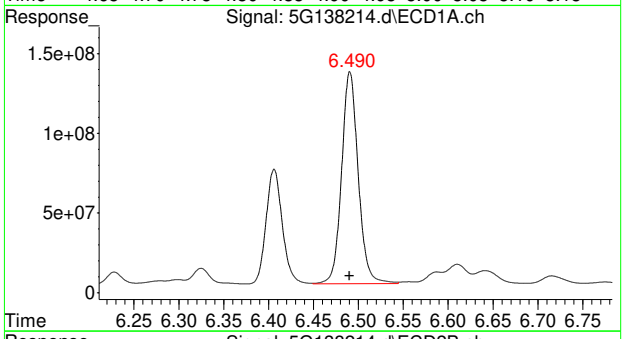
#33 1-bromo-2-nitrobenzeneB

R.T.: 4.620 min
Delta R.T.: 0.000 min
Response: 2189144089
Conc: 5.00 PPB



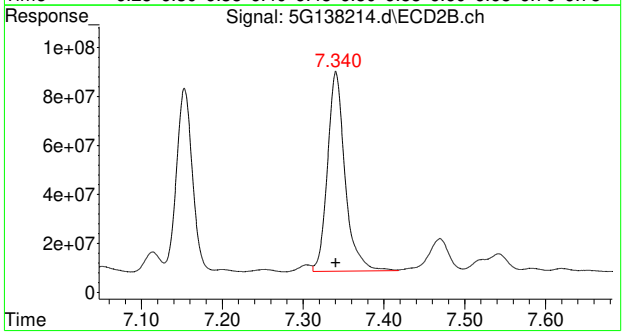
#33 1-bromo-2-nitrobenzeneB

R.T.: 4.920 min
Delta R.T.: 0.000 min
Response: 2278071723
Conc: 5.00 PPB



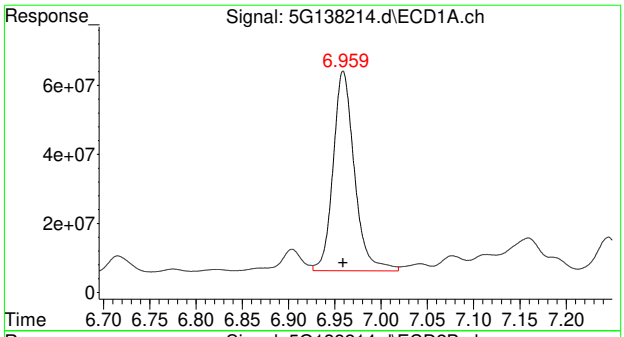
#34 Chlordane {A}

R.T.: 6.491 min
Delta R.T.: 0.000 min
Response: 1718302061
Conc: 44.18 PPB



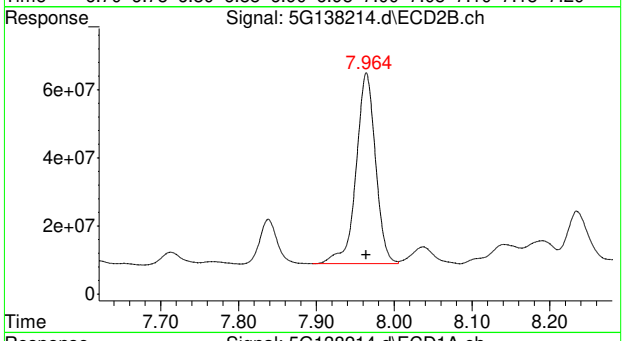
#34 Chlordane {A}

R.T.: 7.341 min
Delta R.T.: 0.000 min
Response: 1230467923
Conc: 34.38 PPB



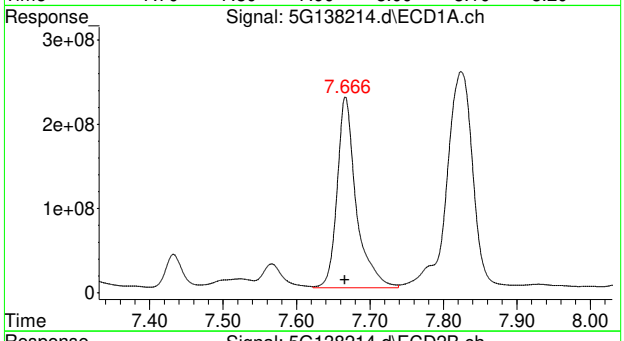
#35 Chlordane {B}

R.T.: 6.959 min
Delta R.T.: 0.000 min
Response: 927611098
Conc: 45.56 PPB



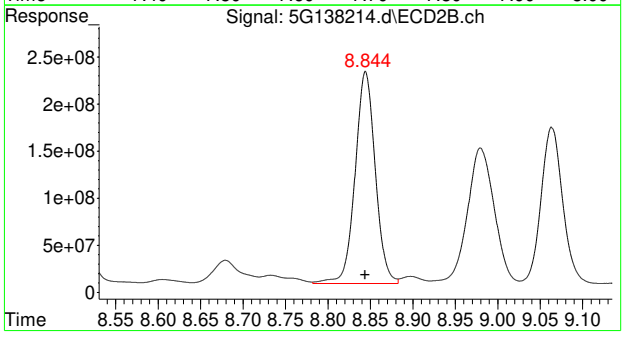
#35 Chlordane {B}

R.T.: 7.964 min
Delta R.T.: 0.000 min
Response: 972762761
Conc: 49.30 PPB



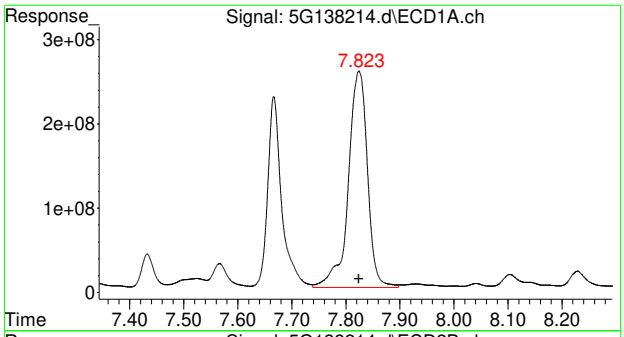
#36 Chlordane {C}

R.T.: 7.667 min
Delta R.T.: 0.000 min
Response: 4079586116
Conc: 50.81 PPB



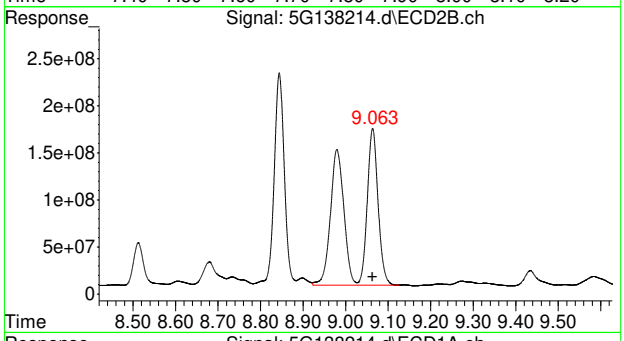
#36 Chlordane {C}

R.T.: 8.844 min
Delta R.T.: 0.000 min
Response: 3739496186
Conc: 52.09 PPB



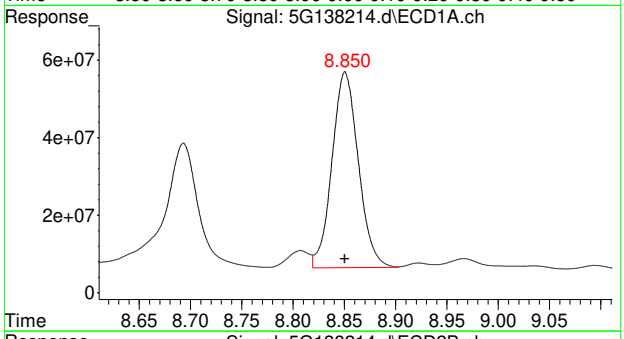
#37 Chlordane {D}

R.T.: 7.824 min
Delta R.T.: 0.000 min
Response: 6337481083
Conc: 49.76 PPB



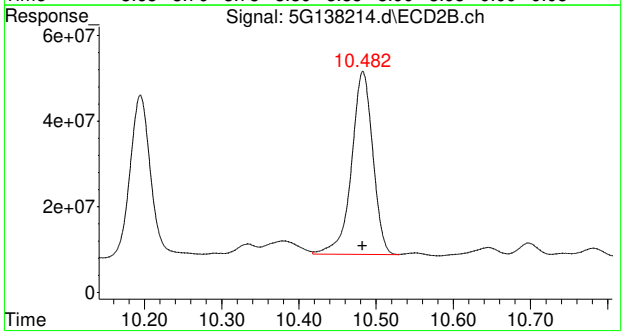
#37 Chlordane {D}

R.T.: 9.063 min
Delta R.T.: 0.000 min
Response: 6107458879
Conc: 54.30 PPB m



#38 Chlordane {E}

R.T.: 8.851 min
Delta R.T.: 0.000 min
Response: 901494316
Conc: 48.63 PPB



#38 Chlordane {E}

R.T.: 10.483 min
Delta R.T.: 0.000 min
Response: 817761203
Conc: 47.63 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
06/06/24 08:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g5g3634\
Data File : 5G138215.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Jun 2024 9:34 am
Operator : rebeccak
Sample : ic3634-50 (toxaphene)
Misc : op55026,G5G3634,5.0,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 13:52:48 2024
Quant Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M
Quant Title : PEST/PCB
QLast Update : Wed Jun 05 13:39:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.620	4.921	1988.2E6	2131.4E6	5.000	5.000
27)	I 1-bromo-2...	4.620	4.921	1988.2E6	2131.4E6	5.000	5.000
33)	I 1-bromo-2...	4.620	4.921	1988.2E6	2131.4E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.250	5.742	859.7E6	2323.9E6	4.010	4.086
	Spiked Amount	40.000	Range 30 - 150	Recovery	=	10.02%#	10.22%#
26)	SA Decachlor...	12.456	14.206	2357.8E6	1748.4E6	4.096	4.126
	Spiked Amount	40.000		Recovery	=	10.24%	10.32%
	Target Compounds						
28)	L8 Toxaphene{A}	7.801	8.558	150.1E6	109.0E6	49.911m	42.798m
29)	L8 Toxaphene{B}	8.447	9.714	244.5E6	151.0E6	62.953	12.663m#
30)	L8 Toxaphene{C}	9.442	10.669	178.2E6	160.7E6	41.955m	57.044m#
31)	L8 Toxaphene{D}	9.731	10.974	635.4E6	457.3E6	78.906m	63.122m
32)	L8 Toxaphene{E}	10.075	11.854	599.9E6	696.4E6	55.357m	70.527m#
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

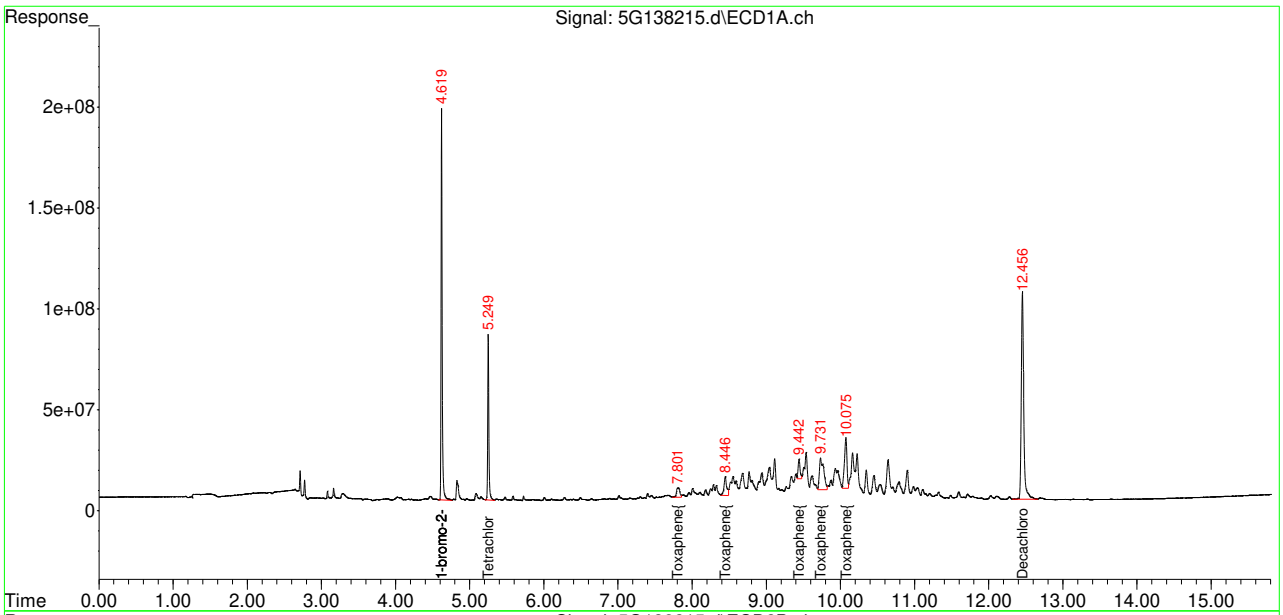
9.3.5
9

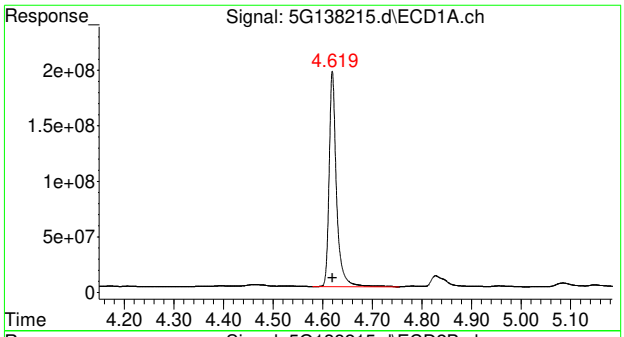
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g5g3634\
Data File : 5G138215.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Jun 2024 9:34 am
Operator : rebeccak
Sample : ic3634-50 (toxaphene)
Misc : op55026,G5G3634,5.0,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 13:52:48 2024
Quant Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M
Quant Title : PEST/PCB
QLast Update : Wed Jun 05 13:39:48 2024
Response via : Initial Calibration
Integrator: ChemStation

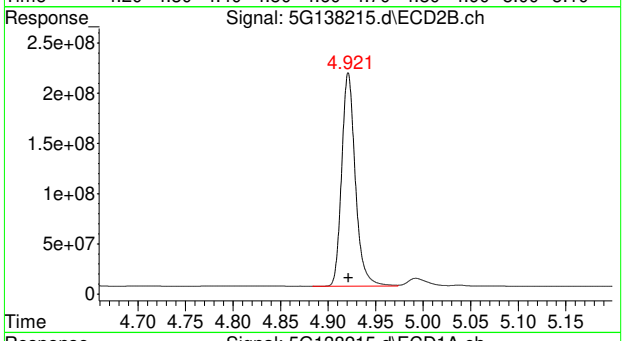
Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





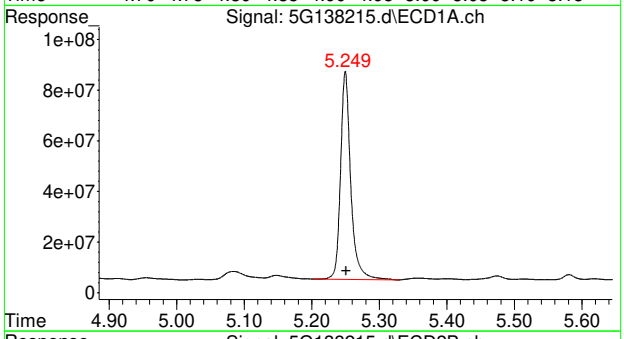
#1 1-bromo-2-nitrobenzene

R.T.: 4.620 min
Delta R.T.: 0.000 min
Response: 1988199380
Conc: 5.00 PPB



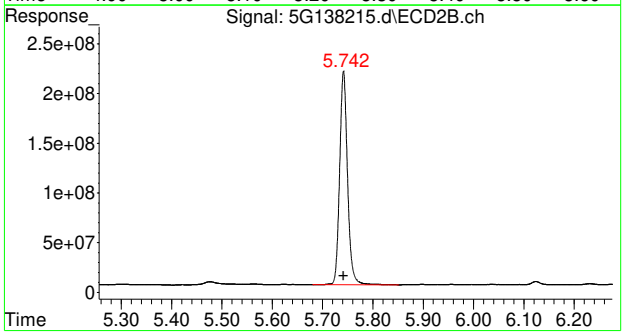
#1 1-bromo-2-nitrobenzene

R.T.: 4.921 min
Delta R.T.: 0.000 min
Response: 2131358579
Conc: 5.00 PPB



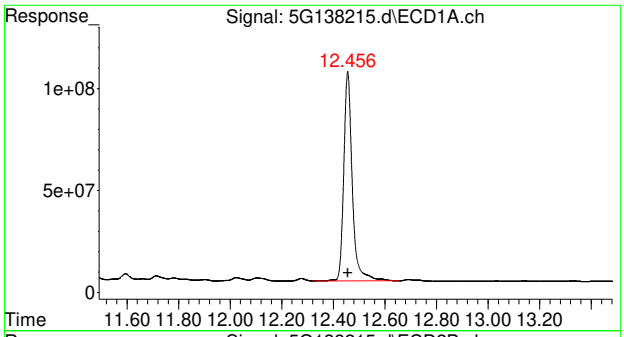
#2 Tetrachloro-m-xylene

R.T.: 5.250 min
Delta R.T.: 0.000 min
Response: 859711952
Conc: 4.01 PPB



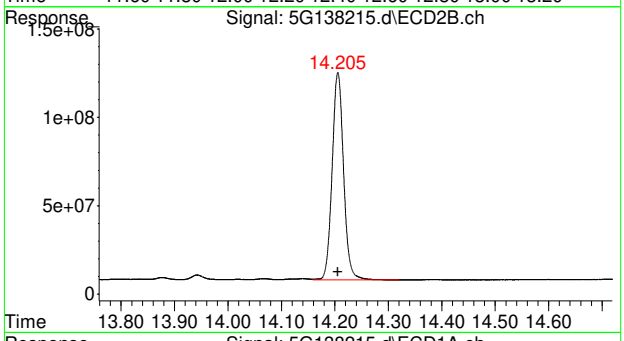
#2 Tetrachloro-m-xylene

R.T.: 5.742 min
Delta R.T.: 0.000 min
Response: 2323926278
Conc: 4.09 PPB



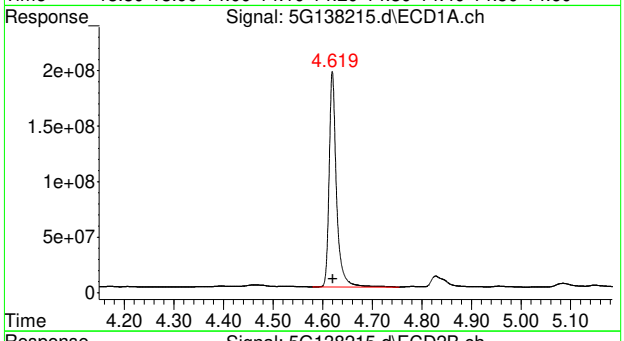
#26 Decachlorobiphenyl

R.T.: 12.456 min
Delta R.T.: 0.000 min
Response: 2357787133
Conc: 4.10 PPB



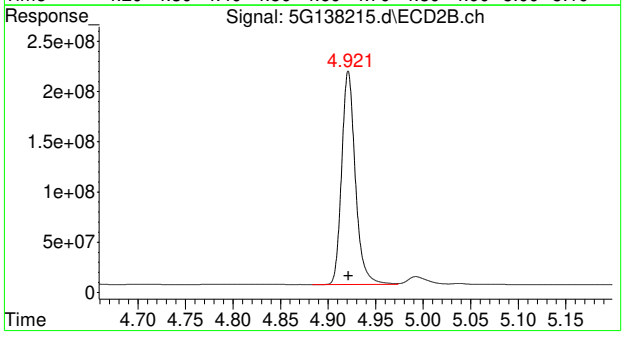
#26 Decachlorobiphenyl

R.T.: 14.206 min
Delta R.T.: 0.000 min
Response: 1748413612
Conc: 4.13 PPB



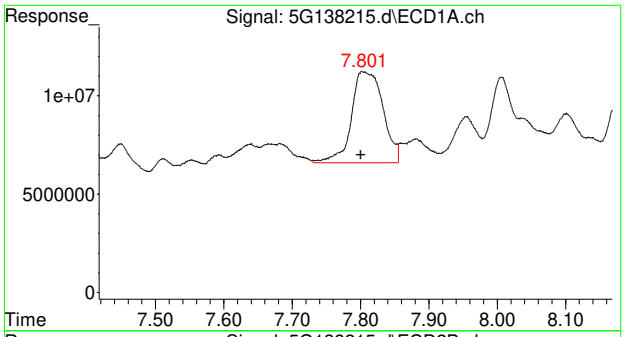
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.620 min
Delta R.T.: 0.000 min
Response: 1988199380
Conc: 5.00 PPB



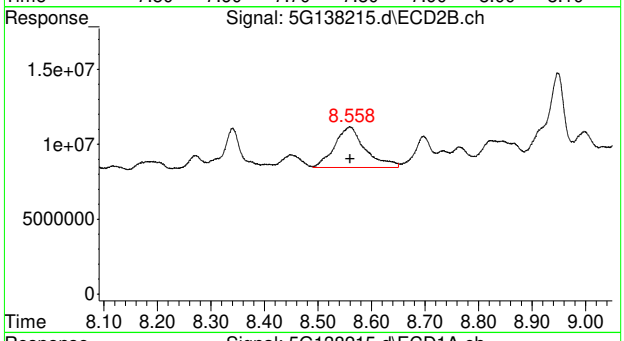
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.921 min
Delta R.T.: 0.000 min
Response: 2131358579
Conc: 5.00 PPB



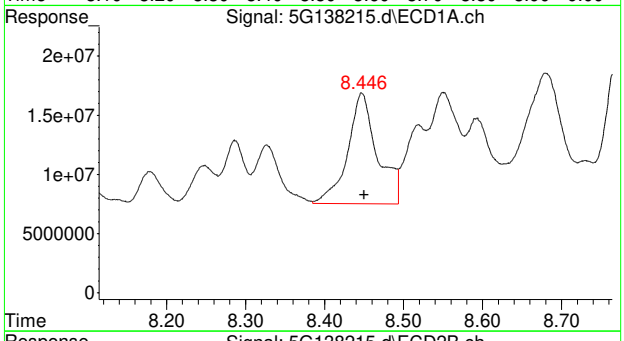
#28 Toxaphene{A}

R.T.: 7.801 min
Delta R.T.: 0.001 min
Response: 150082814
Conc: 49.91 PPB m



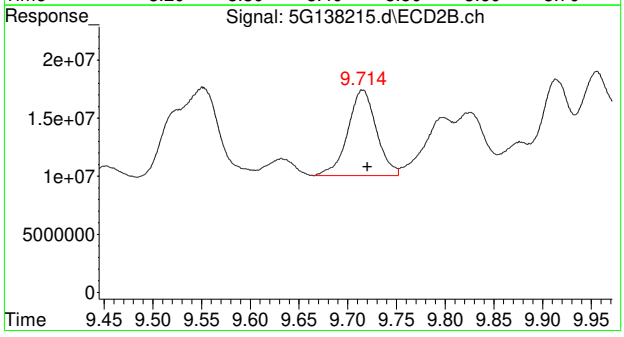
#28 Toxaphene{A}

R.T.: 8.558 min
Delta R.T.: -0.002 min
Response: 108951678
Conc: 42.80 PPB m



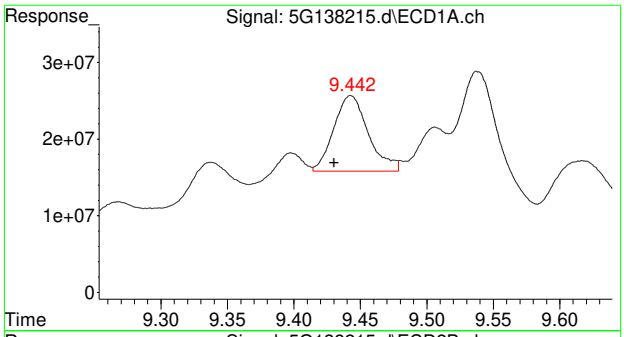
#29 Toxaphene{B}

R.T.: 8.447 min
Delta R.T.: -0.003 min
Response: 244504866
Conc: 62.95 PPB



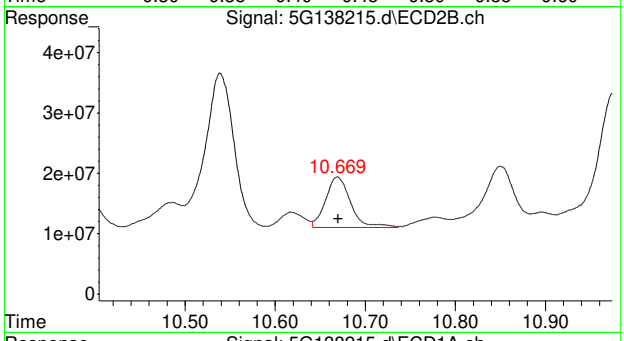
#29 Toxaphene{B}

R.T.: 9.714 min
Delta R.T.: -0.006 min
Response: 151034010
Conc: 12.66 PPB m



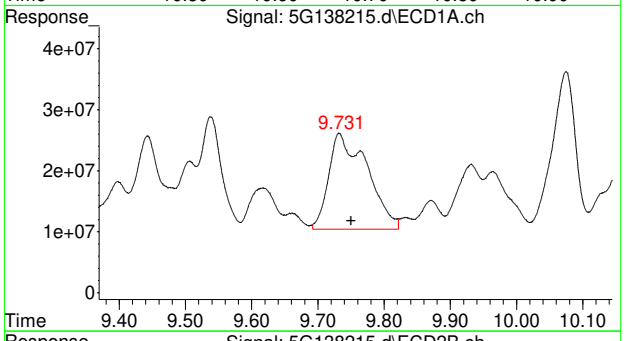
#30 Toxaphene{C}

R.T.: 9.442 min
Delta R.T.: 0.012 min
Response: 178196822
Conc: 41.96 PPB m



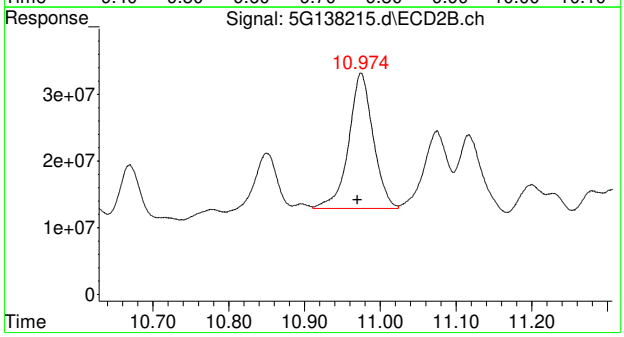
#30 Toxaphene{C}

R.T.: 10.669 min
Delta R.T.: 0.000 min
Response: 160724866
Conc: 57.04 PPB m



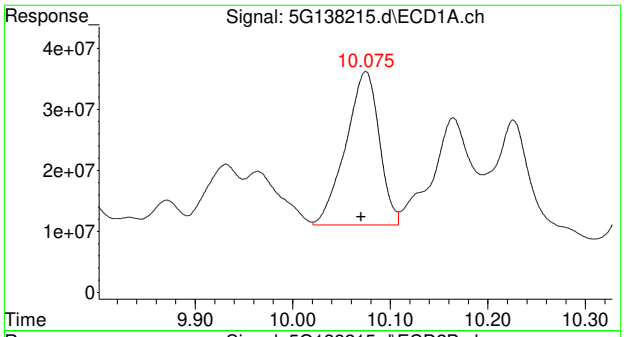
#31 Toxaphene{D}

R.T.: 9.731 min
Delta R.T.: -0.019 min
Response: 635369938
Conc: 78.91 PPB m



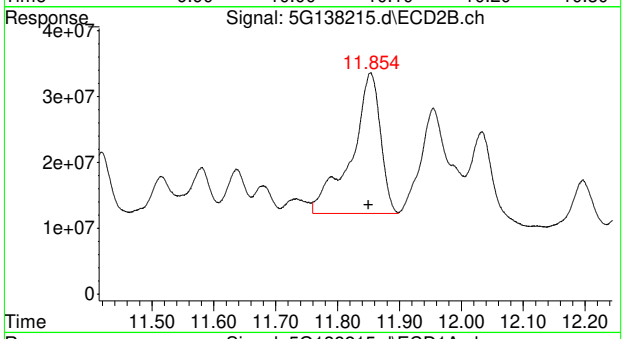
#31 Toxaphene{D}

R.T.: 10.974 min
Delta R.T.: 0.004 min
Response: 457270048
Conc: 63.12 PPB m



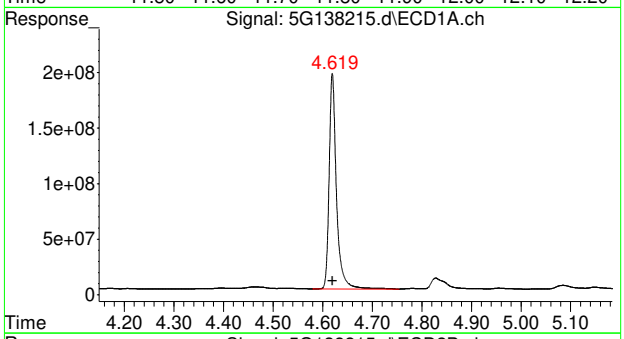
#32 Toxaphene{E}

R.T.: 10.075 min
Delta R.T.: 0.005 min
Response: 599860758
Conc: 55.36 PPB m



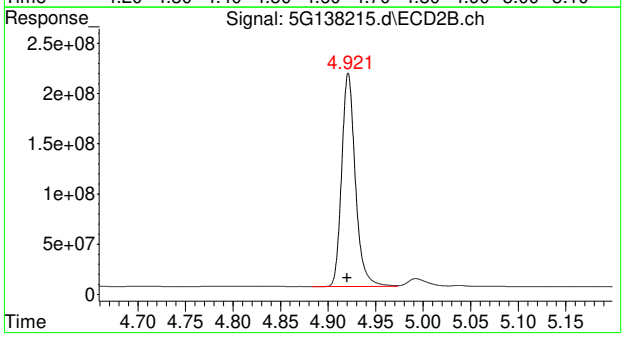
#32 Toxaphene{E}

R.T.: 11.854 min
Delta R.T.: 0.004 min
Response: 696429839
Conc: 70.53 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.620 min
Delta R.T.: 0.000 min
Response: 1988199380
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.921 min
Delta R.T.: 0.001 min
Response: 2131358579
Conc: 5.00 PPB

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g5g3634\
Data File : 5G138220.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Jun 2024 11:18 am
Operator : rebeccak
Sample : icc3634-2.5 (pest mix)
Misc : op55026,G5G3634,5.0,,,10,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 13:20:57 2024
Quant Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M
Quant Title : PEST/PCB
QLast Update : Wed Jun 05 11:15:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
		Internal Standards							
1)	I	1-bromo-2...	4.621	4.922	1908.0E6	1933.4E6	5.000	5.000	
27)	I	1-bromo-2...	4.621	4.922	1908.0E6	1933.4E6	5.000	5.000	
33)	I	1-bromo-2...	4.621	4.922	1908.0E6	1933.4E6	5.000	5.000	
		System Monitoring Compounds							
2)	SAB	Tetrachlo...	5.252	5.743	492.4E6	1224.0E6	2.233	2.775	
		Spiked Amount 40.000	Range 30 - 150		Recovery =		5.58%#	6.94%#	
26)	SA	Decachlor...	12.456	14.204	1299.1E6	908.3E6	2.792	3.528	#
		Spiked Amount 40.000			Recovery =		6.98%	8.82%	
		Target Compounds							
3)		hexachlor...	5.582	6.232	1758.8E6	1749.0E6	2.855	2.622	
4)	A	alpha-BHC	5.728	6.386	1812.3E6	2078.9E6	2.605	2.894	
5)	MA	gamma-BHC	6.017	6.793	1635.9E6	1846.3E6	2.628	2.895	
6)	MA	Heptachlor	6.493	7.342	1642.3E6	1221.8E6	2.718	2.158	
7)	B	beta-BHC	6.101	6.882	569.9E6	771.9E6	2.400	2.798	
8)	B	delta-BHC	6.275	7.257	1825.6E6	1839.9E6	2.830	3.046	
9)	MB	Aldrin	6.812	7.772	1660.5E6	1744.2E6	2.750	3.087	
10)		alachlor	6.982	7.611	140.6E6	184.9E6	2.966	3.138	
11)	B	Heptachlo...	7.509	8.568	1475.9E6	1546.7E6	2.815	3.204	
12)	B	gamma-Chl...	7.667	8.845	1556.4E6	1640.0E6	2.897	3.185	
13)	B	alpha-Chl...	7.833	9.064	1515.1E6	1578.5E6	2.895	3.199	
14)	A	Endosulfan I	8.004	9.152	1518.3E6	1410.6E6	2.998	3.088	
15)	B	4,4'-DDE	7.952	9.332	1360.4E6	1441.3E6	2.764	3.081	
16)	MA	Dieldrin	8.318	9.574	1569.1E6	1528.6E6	2.917	3.153	
17)	MA	Endrin	8.632	10.062	1361.2E6	1079.2E6	2.915	2.686	
18)	A	4,4'-DDD	8.766	10.258	1090.8E6	887.7E6	2.706	2.644	
19)	B	Endosulfa...	8.948	10.407	1288.5E6	1321.2E6	2.871	3.199	
20)	MA	4,4'-DDT	9.173	10.778	1073.1E6	948.1E6	2.670	2.784	
21)	B	Endrin Al...	9.567	10.968	908.0E6	936.9E6	2.719	3.229	
22)	B	Endosulfa...	10.243	11.432	1233.0E6	1284.1E6	2.895	3.420	
23)	A	Methoxychlor	9.951	12.007	512.4E6	383.1E6	2.480	2.500	
24)		Mirex	10.059	12.294	834.7E6	891.9E6	2.628	3.397	#
25)	B	Endrin Ke...	10.666	12.369	1360.9E6	1330.8E6	2.857	3.317	

SemiQuant Compounds - Not Calibrated on this Instrument

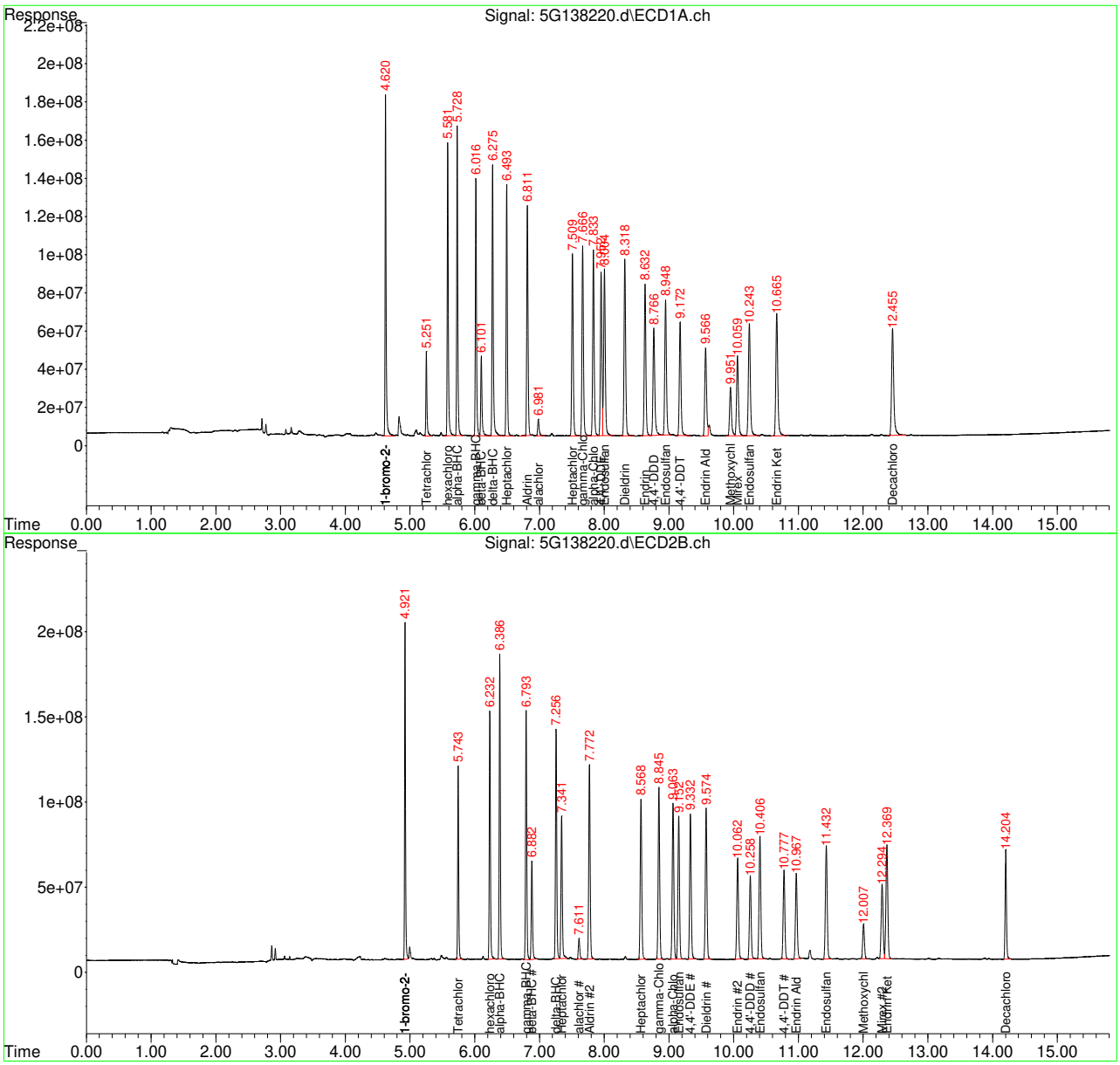
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

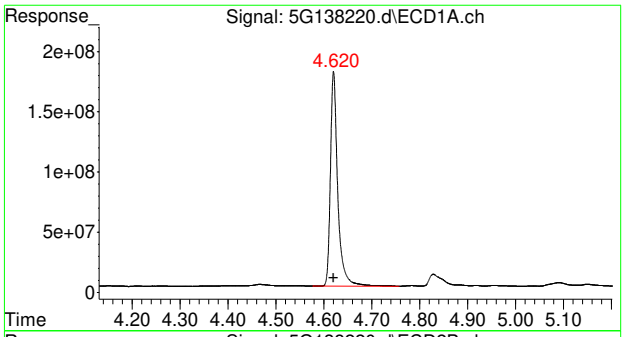
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g5g3634\
Data File : 5G138220.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Jun 2024 11:18 am
Operator : rebeccak
Sample : icc3634-2.5 (pest mix)
Misc : op55026,G5G3634,5.0,,,10,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 13:20:57 2024
Quant Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M
Quant Title : PEST/PCB
QLast Update : Wed Jun 05 11:15:18 2024
Response via : Initial Calibration
Integrator: ChemStation

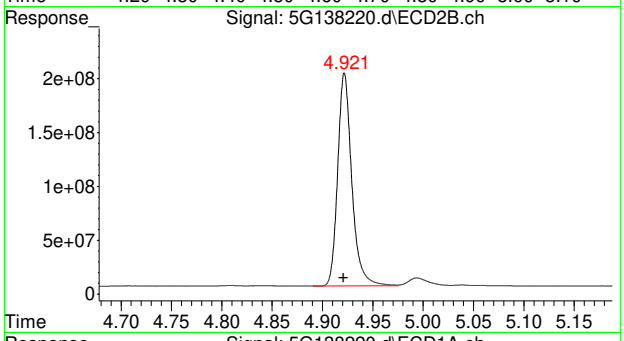
Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





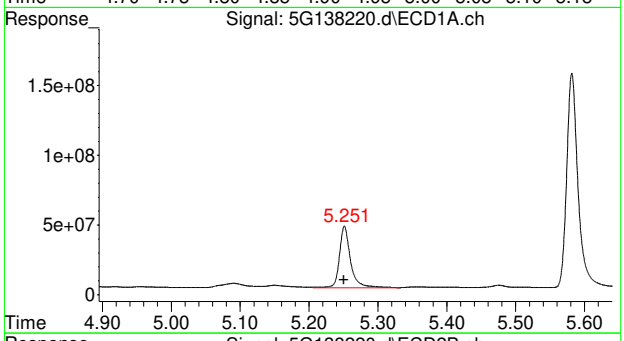
#1 1-bromo-2-nitrobenzene

R.T.: 4.621 min
Delta R.T.: 0.000 min
Response: 1907980886
Conc: 5.00 PPB



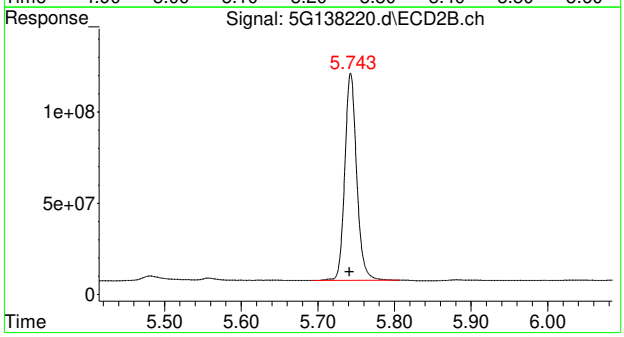
#1 1-bromo-2-nitrobenzene

R.T.: 4.922 min
Delta R.T.: 0.000 min
Response: 1933443008
Conc: 5.00 PPB



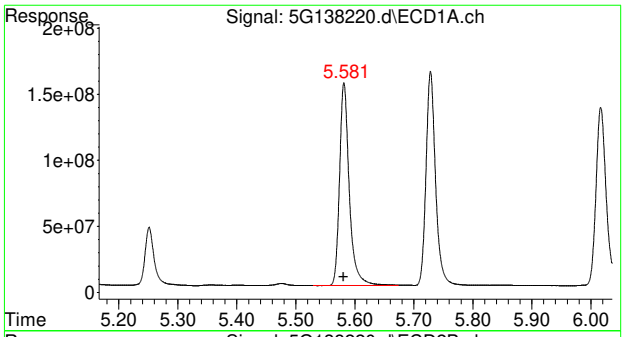
#2 Tetrachloro-m-xylene

R.T.: 5.252 min
Delta R.T.: 0.001 min
Response: 492394280
Conc: 2.23 PPB



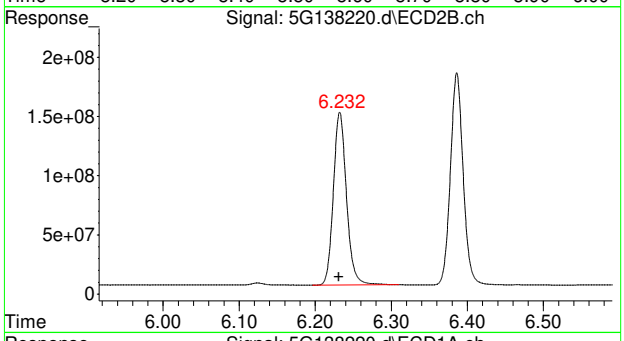
#2 Tetrachloro-m-xylene

R.T.: 5.743 min
Delta R.T.: 0.002 min
Response: 1223995797
Conc: 2.78 PPB



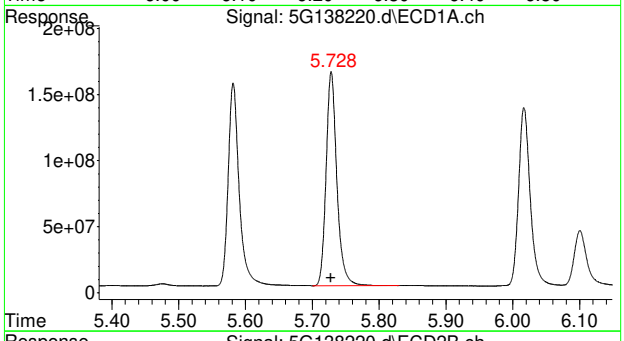
#3 hexachlorobenzene

R.T.: 5.582 min
Delta R.T.: 0.001 min
Response: 1758797174
Conc: 2.85 PPB



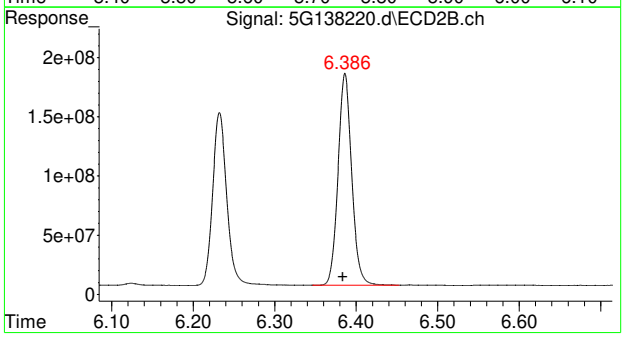
#3 hexachlorobenzene

R.T.: 6.232 min
Delta R.T.: 0.002 min
Response: 1749018185
Conc: 2.62 PPB



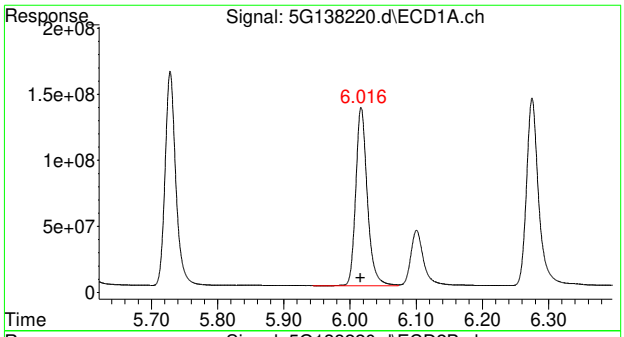
#4 alpha-BHC

R.T.: 5.728 min
Delta R.T.: 0.001 min
Response: 1812308800
Conc: 2.61 PPB



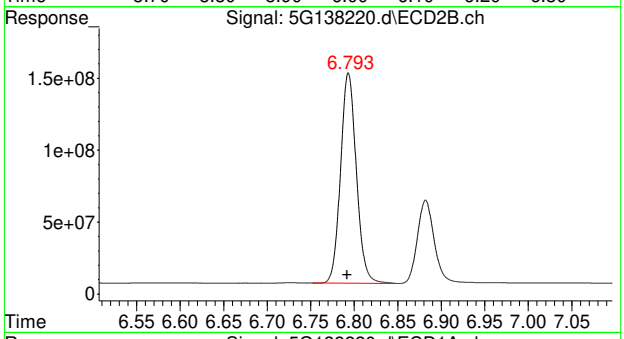
#4 alpha-BHC

R.T.: 6.386 min
Delta R.T.: 0.003 min
Response: 2078947022
Conc: 2.89 PPB



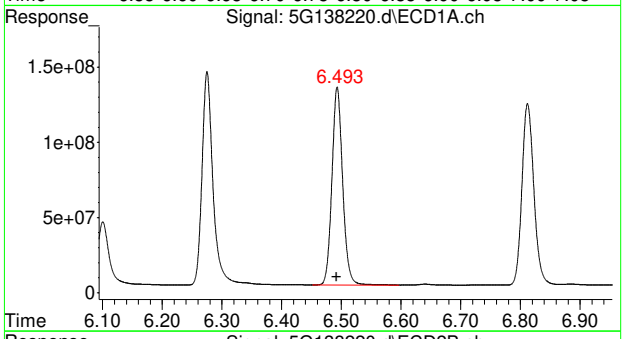
#5 gamma-BHC

R.T.: 6.017 min
Delta R.T.: 0.002 min
Response: 1635924850
Conc: 2.63 PPB



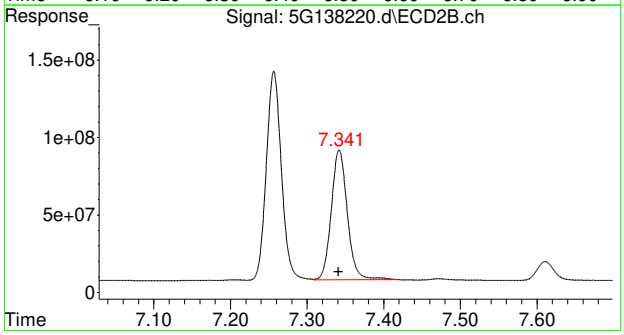
#5 gamma-BHC

R.T.: 6.793 min
Delta R.T.: 0.001 min
Response: 1846327949
Conc: 2.90 PPB



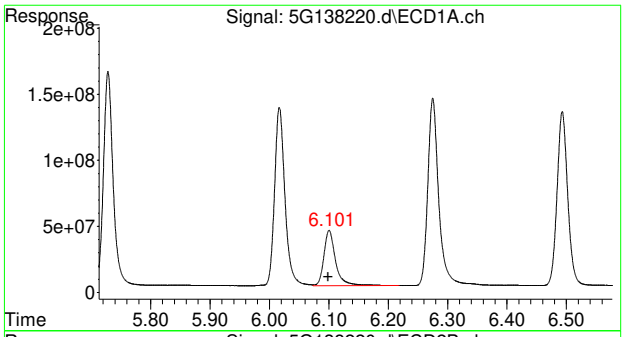
#6 Heptachlor

R.T.: 6.493 min
Delta R.T.: 0.002 min
Response: 1642321824
Conc: 2.72 PPB



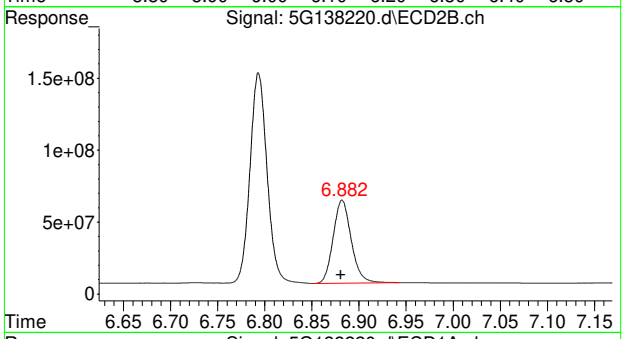
#6 Heptachlor

R.T.: 7.342 min
Delta R.T.: 0.000 min
Response: 1221817002
Conc: 2.16 PPB



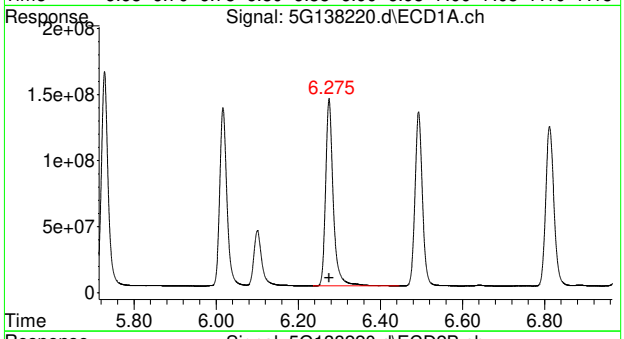
#7 beta-BHC

R.T.: 6.101 min
Delta R.T.: 0.002 min
Response: 569915811
Conc: 2.40 PPB



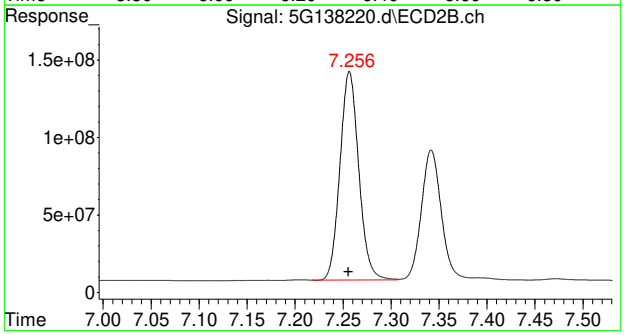
#7 beta-BHC

R.T.: 6.882 min
Delta R.T.: 0.002 min
Response: 771888610
Conc: 2.80 PPB



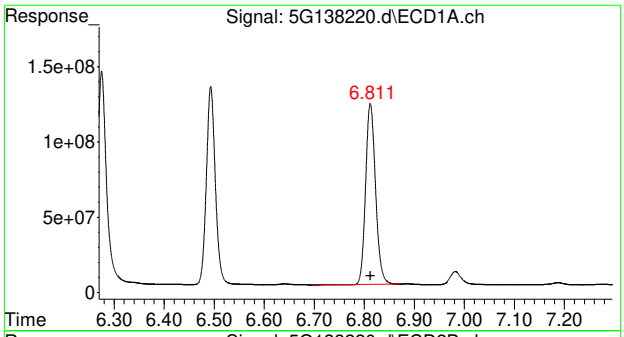
#8 delta-BHC

R.T.: 6.275 min
Delta R.T.: 0.000 min
Response: 1825638350
Conc: 2.83 PPB



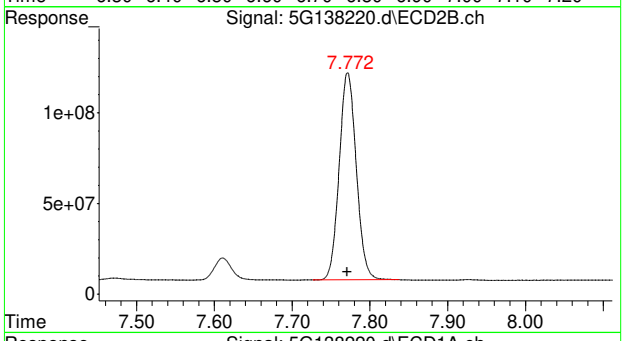
#8 delta-BHC

R.T.: 7.257 min
Delta R.T.: 0.001 min
Response: 1839919077
Conc: 3.05 PPB



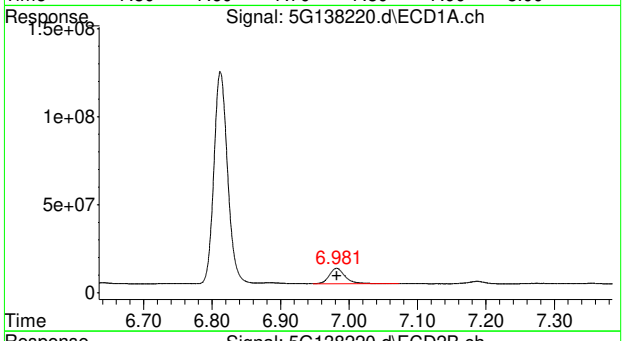
#9 Aldrin

R.T.: 6.812 min
Delta R.T.: 0.000 min
Response: 1660528718
Conc: 2.75 PPB



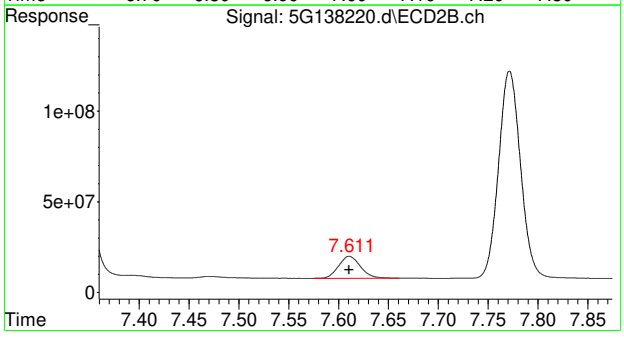
#9 Aldrin

R.T.: 7.772 min
Delta R.T.: 0.000 min
Response: 1744232765
Conc: 3.09 PPB



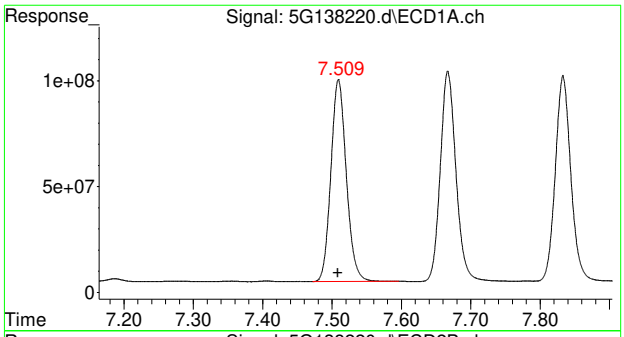
#10 alachlor

R.T.: 6.982 min
Delta R.T.: 0.000 min
Response: 140586242
Conc: 2.97 PPB



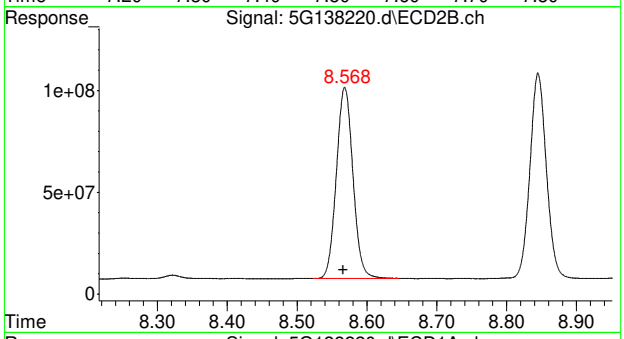
#10 alachlor

R.T.: 7.611 min
Delta R.T.: 0.000 min
Response: 184919220
Conc: 3.14 PPB



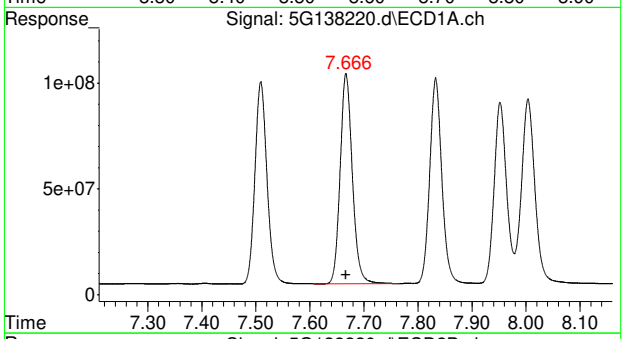
#11 Heptachlor Epoxide

R.T.: 7.509 min
Delta R.T.: 0.001 min
Response: 1475862522
Conc: 2.81 PPB



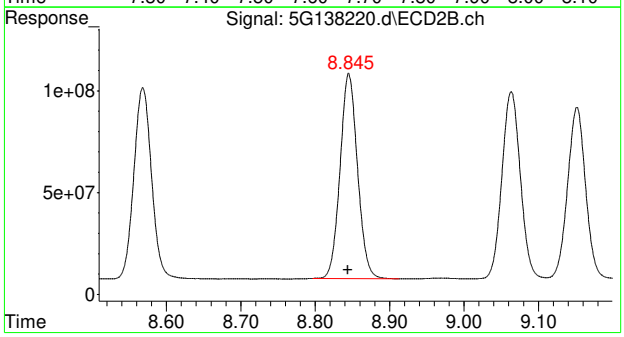
#11 Heptachlor Epoxide

R.T.: 8.568 min
Delta R.T.: 0.003 min
Response: 1546687634
Conc: 3.20 PPB



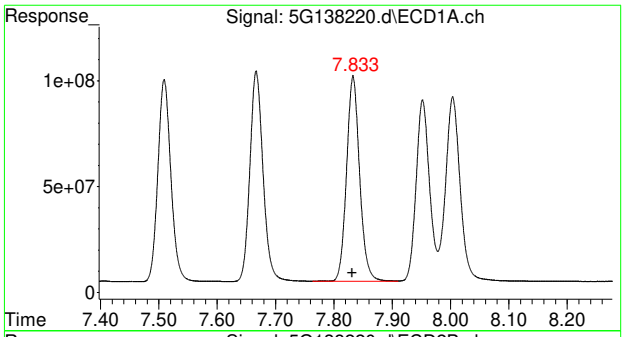
#12 gamma-Chlordane

R.T.: 7.667 min
Delta R.T.: 0.000 min
Response: 1556397313
Conc: 2.90 PPB



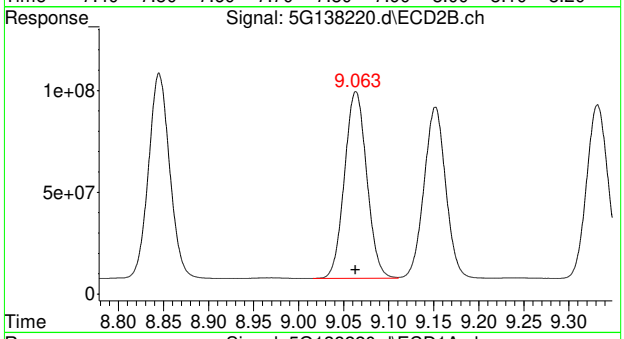
#12 gamma-Chlordane

R.T.: 8.845 min
Delta R.T.: 0.001 min
Response: 1640024323
Conc: 3.19 PPB



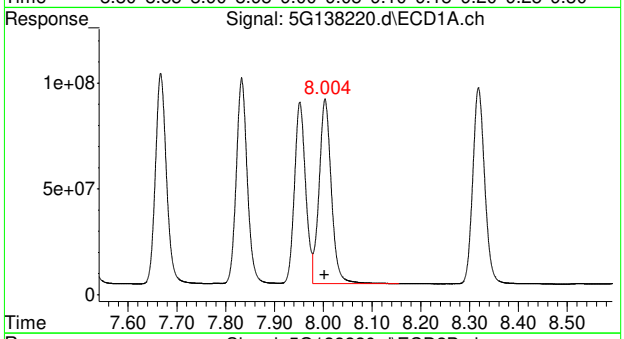
#13 alpha-Chlordane

R.T.: 7.833 min
Delta R.T.: 0.001 min
Response: 1515141638
Conc: 2.89 PPB



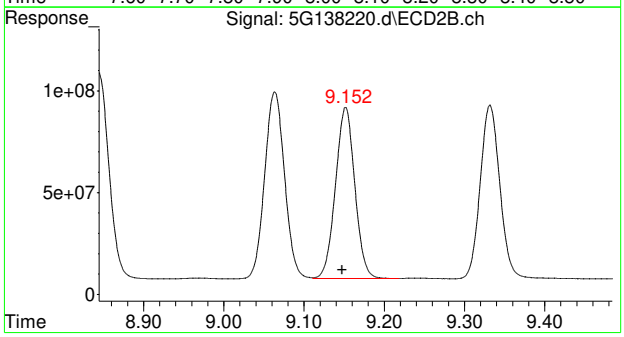
#13 alpha-Chlordane

R.T.: 9.064 min
Delta R.T.: 0.000 min
Response: 1578537774
Conc: 3.20 PPB



#14 Endosulfan I

R.T.: 8.004 min
Delta R.T.: 0.001 min
Response: 1518341903
Conc: 3.00 PPB

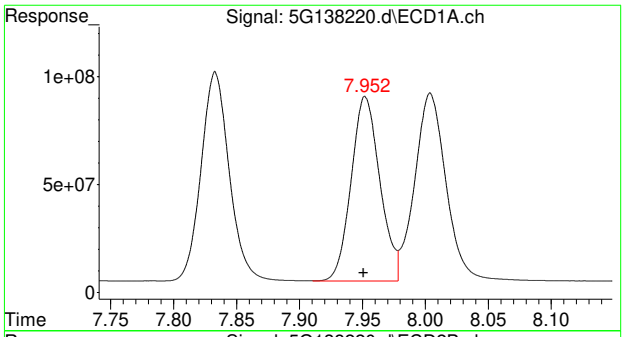


#14 Endosulfan I

R.T.: 9.152 min
Delta R.T.: 0.005 min
Response: 1410621391
Conc: 3.09 PPB

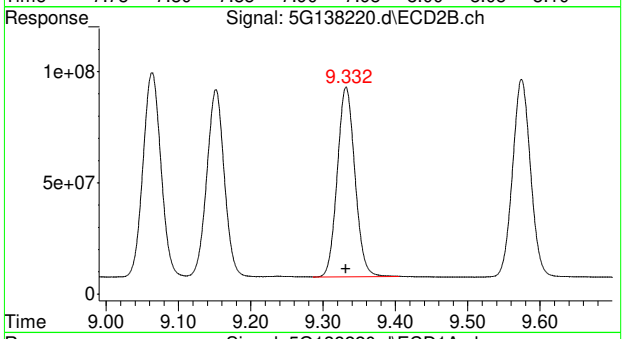
9.3.6

6



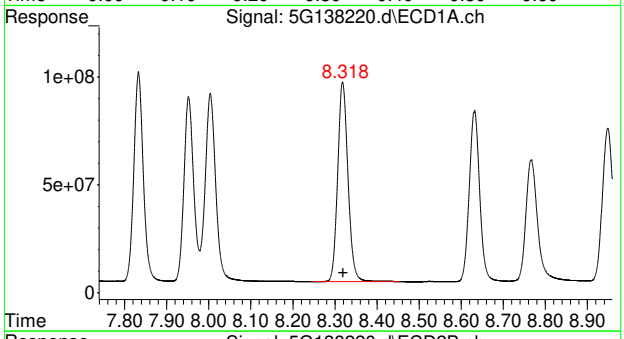
#15 4,4'-DDE

R.T.: 7.952 min
Delta R.T.: 0.001 min
Response: 1360352486
Conc: 2.76 PPB



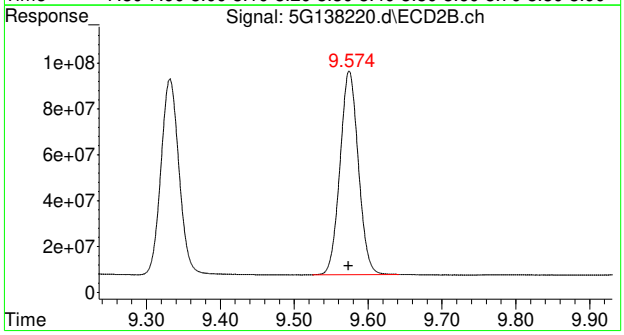
#15 4,4'-DDE

R.T.: 9.332 min
Delta R.T.: 0.000 min
Response: 1441305789
Conc: 3.08 PPB



#16 Dieldrin

R.T.: 8.318 min
Delta R.T.: 0.000 min
Response: 1569102078
Conc: 2.92 PPB

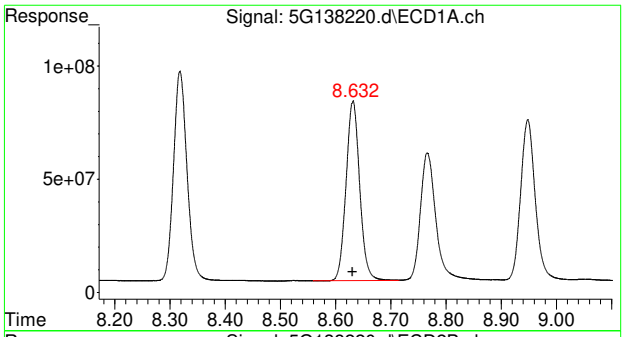


#16 Dieldrin

R.T.: 9.574 min
Delta R.T.: 0.001 min
Response: 1528556904
Conc: 3.15 PPB

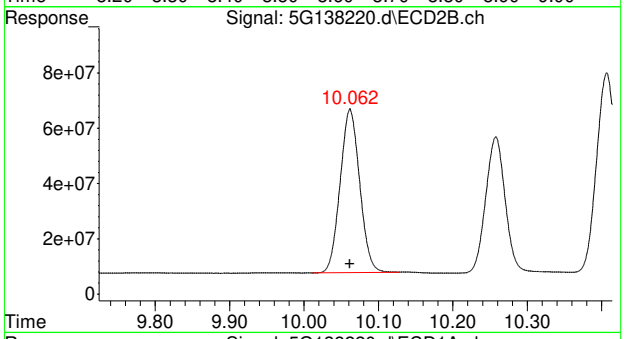
9.3.6

9



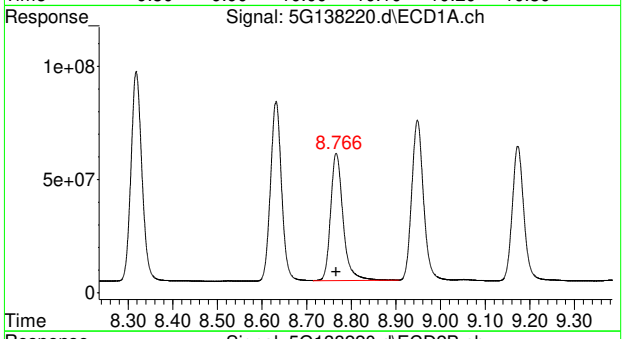
#17 Endrin

R.T.: 8.632 min
Delta R.T.: 0.001 min
Response: 1361204576
Conc: 2.92 PPB



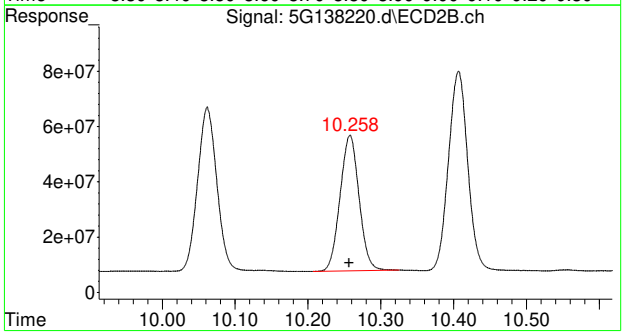
#17 Endrin

R.T.: 10.062 min
Delta R.T.: 0.000 min
Response: 1079151801
Conc: 2.69 PPB



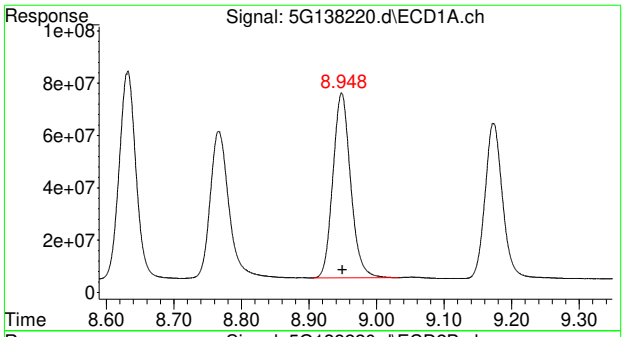
#18 4,4'-DDD

R.T.: 8.766 min
Delta R.T.: 0.000 min
Response: 1090815595
Conc: 2.71 PPB



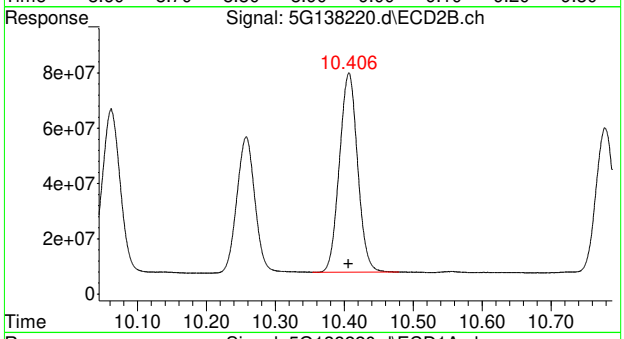
#18 4,4'-DDD

R.T.: 10.258 min
Delta R.T.: 0.002 min
Response: 887703076
Conc: 2.64 PPB



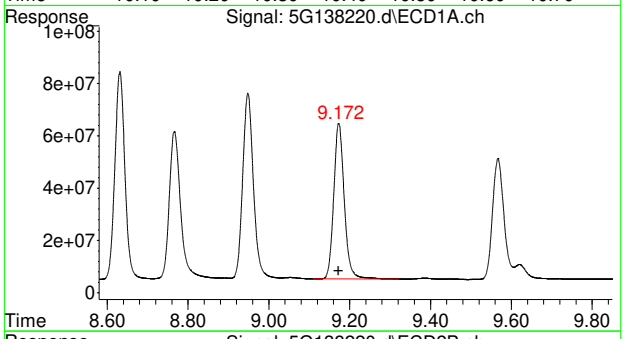
#19 Endosulfan II

R.T.: 8.948 min
Delta R.T.: 0.000 min
Response: 1288507845
Conc: 2.87 PPB



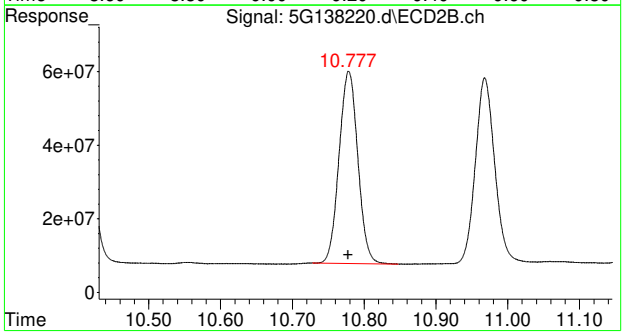
#19 Endosulfan II

R.T.: 10.407 min
Delta R.T.: 0.001 min
Response: 1321201437
Conc: 3.20 PPB



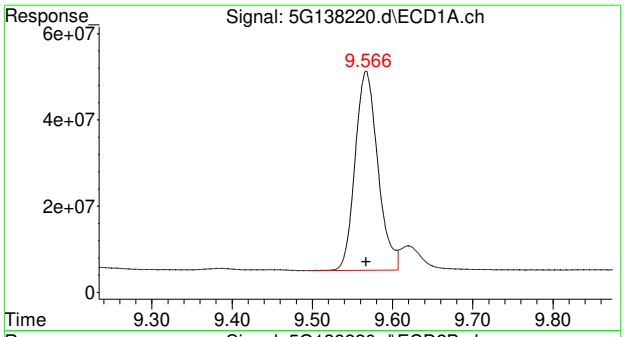
#20 4,4'-DDT

R.T.: 9.173 min
Delta R.T.: 0.001 min
Response: 1073101940
Conc: 2.67 PPB



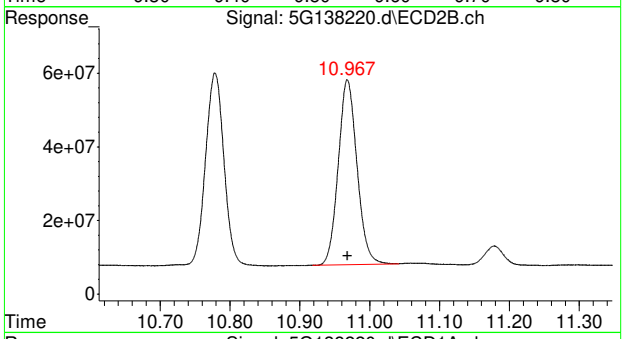
#20 4,4'-DDT

R.T.: 10.778 min
Delta R.T.: 0.000 min
Response: 948107198
Conc: 2.78 PPB



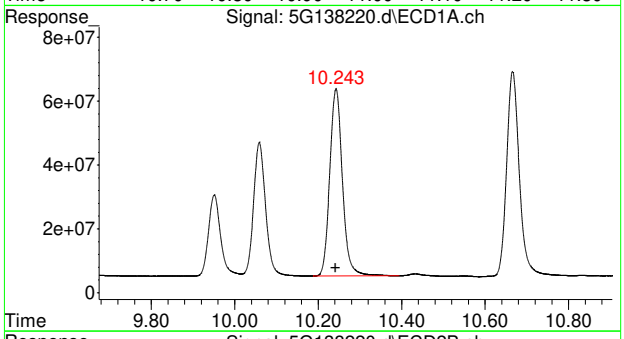
#21 Endrin Aldehyde

R.T.: 9.567 min
Delta R.T.: 0.000 min
Response: 908032573
Conc: 2.72 PPB



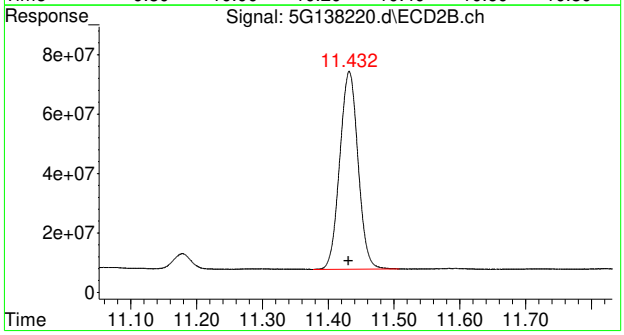
#21 Endrin Aldehyde

R.T.: 10.968 min
Delta R.T.: 0.000 min
Response: 936854591
Conc: 3.23 PPB



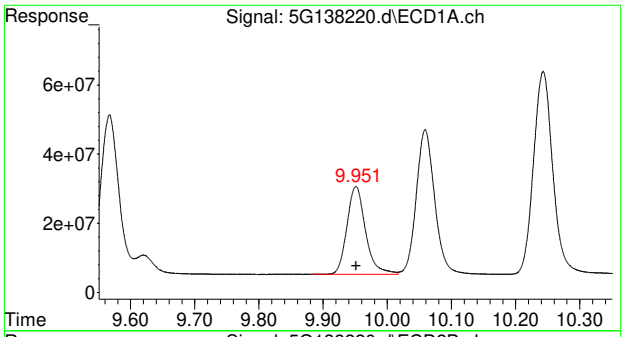
#22 Endosulfan Sulfate

R.T.: 10.243 min
Delta R.T.: 0.002 min
Response: 1232960949
Conc: 2.89 PPB



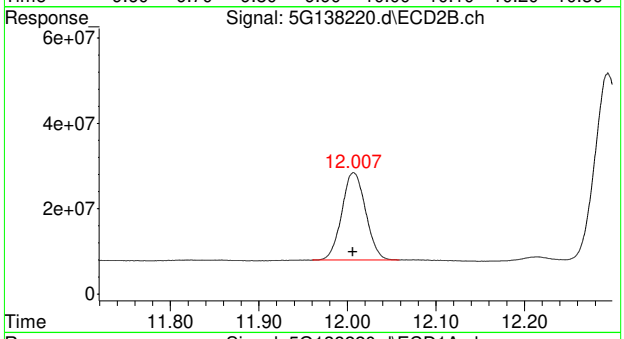
#22 Endosulfan Sulfate

R.T.: 11.432 min
Delta R.T.: 0.001 min
Response: 1284061755
Conc: 3.42 PPB



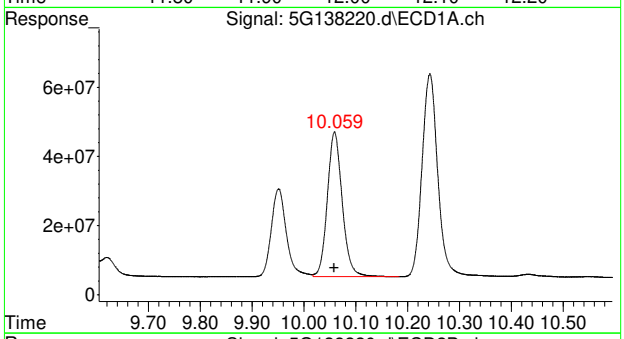
#23 Methoxychlor

R.T.: 9.951 min
Delta R.T.: 0.000 min
Response: 512424371
Conc: 2.48 PPB



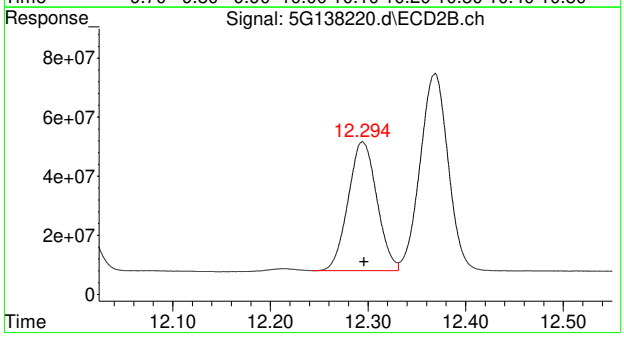
#23 Methoxychlor

R.T.: 12.007 min
Delta R.T.: 0.001 min
Response: 383086254
Conc: 2.50 PPB



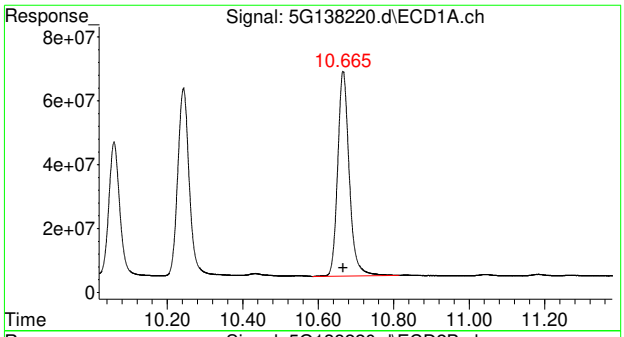
#24 Mirex

R.T.: 10.059 min
Delta R.T.: 0.000 min
Response: 834667196
Conc: 2.63 PPB



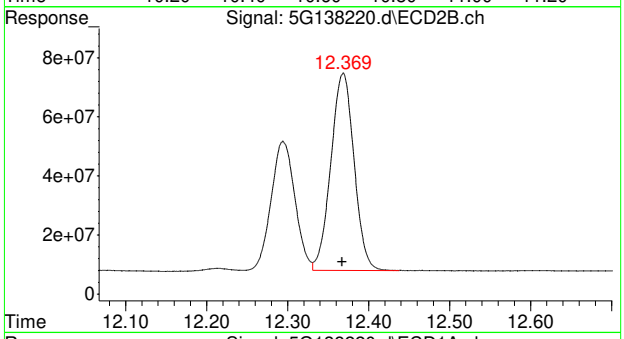
#24 Mirex

R.T.: 12.294 min
Delta R.T.: -0.002 min
Response: 891880524
Conc: 3.40 PPB



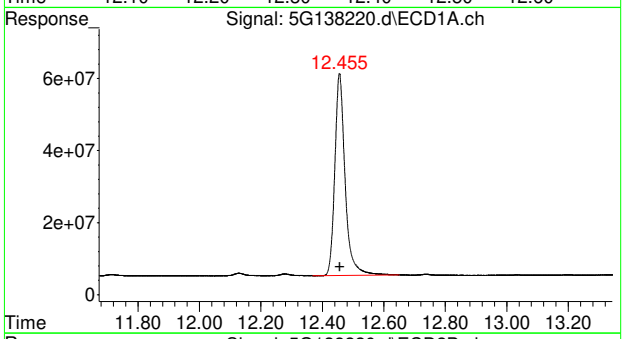
#25 Endrin Ketone

R.T.: 10.666 min
Delta R.T.: 0.000 min
Response: 1360884380
Conc: 2.86 PPB



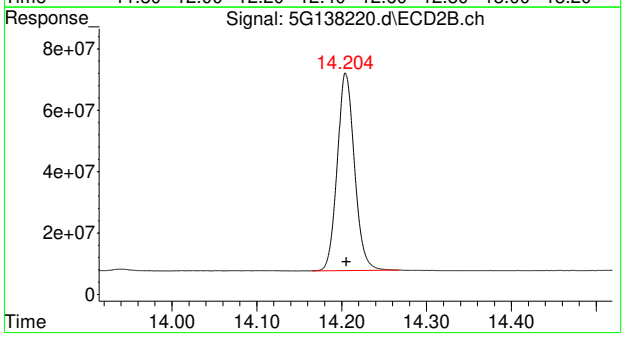
#25 Endrin Ketone

R.T.: 12.369 min
Delta R.T.: 0.002 min
Response: 1330843186
Conc: 3.32 PPB



#26 Decachlorobiphenyl

R.T.: 12.456 min
Delta R.T.: 0.000 min
Response: 1299134311
Conc: 2.79 PPB

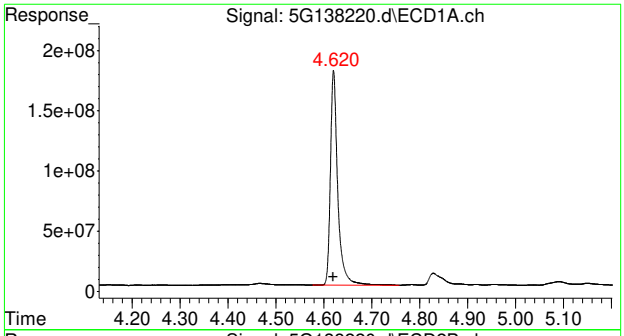


#26 Decachlorobiphenyl

R.T.: 14.204 min
Delta R.T.: 0.000 min
Response: 908275456
Conc: 3.53 PPB

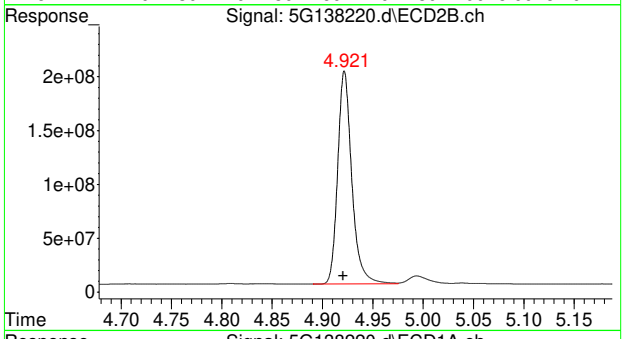
9.3.6

9



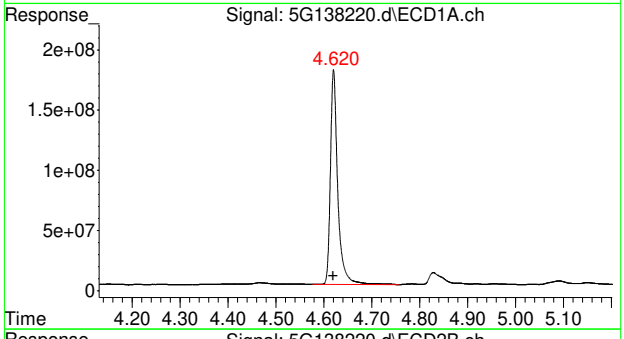
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.621 min
Delta R.T.: 0.000 min
Response: 1907980886
Conc: 5.00 PPB



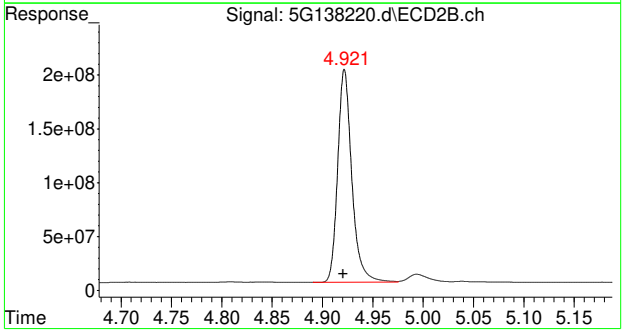
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.922 min
Delta R.T.: 0.001 min
Response: 1933443008
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.621 min
Delta R.T.: 0.000 min
Response: 1907980886
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.922 min
Delta R.T.: 0.001 min
Response: 1933443008
Conc: 5.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Rebecca Krug
04/29/24 20:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl343\
Data File : RL15612.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 03:23 am
Operator : christp
Sample : icc343-100 (Sig #1); ic343-100 (Sig #2)
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 20:19:28 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 05:54:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.920	4.333	928.7E6	633.0E6	4.786	4.413
	Spiked Amount 40.000			Recovery	=	11.97%	11.03%
51) S	Decachlor...	9.821	10.737	594.9E6	442.8E6	5.245	4.732m
	Spiked Amount 40.000			Recovery	=	13.11%	11.83%
	Target Compounds						
41)	AR1016-A	4.220	4.785	388.0E6	271.8E6	120.570	108.100
42)	AR1016-B	4.519	5.178	788.7E6	554.4E6	125.421	107.040
43)	AR1016-C	4.920	5.688	1712.6E6	1322.7E6	122.683m	111.488m
44)	AR1016-D	5.041	5.855	682.6E6	484.7E6	122.200	112.053
45)	AR1016-E	5.441	6.516	702.3E6	385.5E6	120.686m	111.229
46)	AR1260-A	7.455	8.502	1565.8E6	1152.9E6	137.640	159.335
47)	AR1260-B	7.947	8.967	1068.9E6	897.3E6	150.412m	165.617
48)	AR1260-C	8.229	9.255	967.5E6	836.0E6	134.172	133.888
49)	AR1260-D	8.560	9.466	2310.4E6	1946.5E6	134.211	144.715
50)	AR1260-E	8.844	9.790	2309.8E6	1794.5E6	140.276m	138.636

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

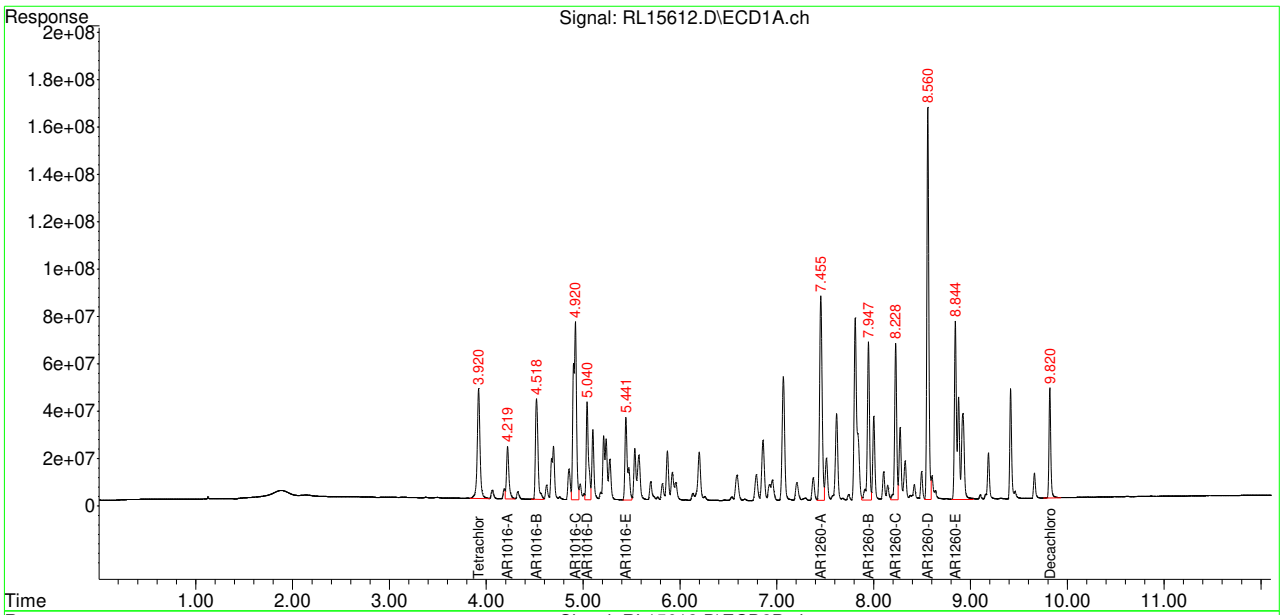
9.3.7
9

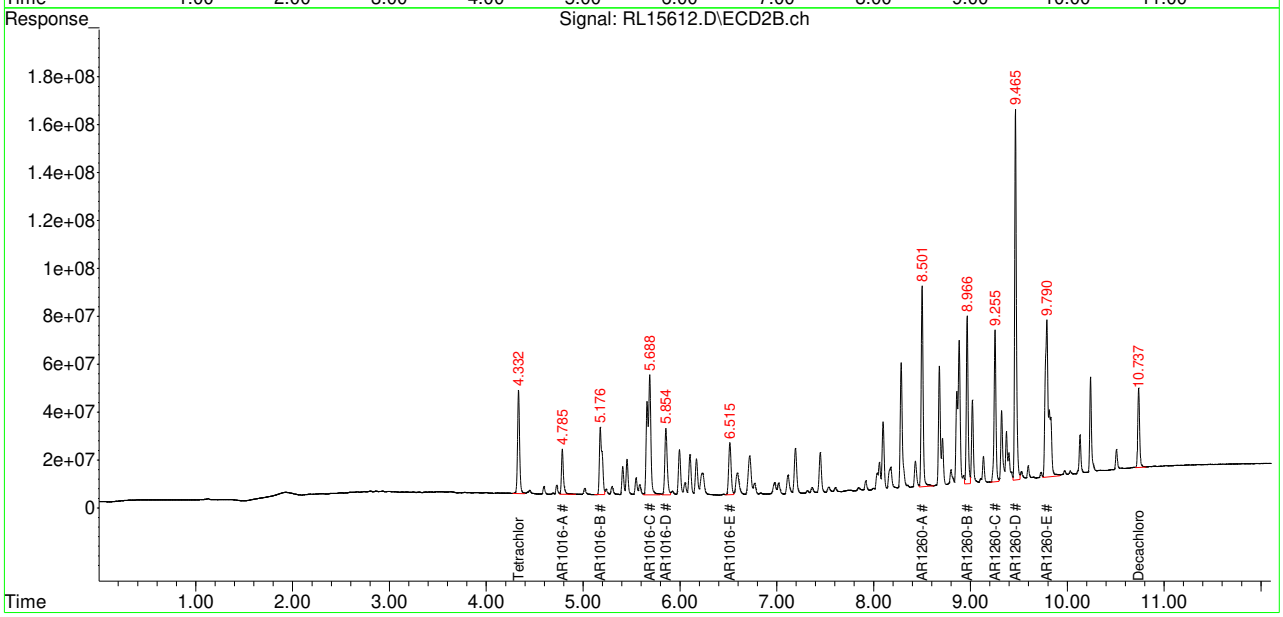
Quantitation Report (QT Reviewed)

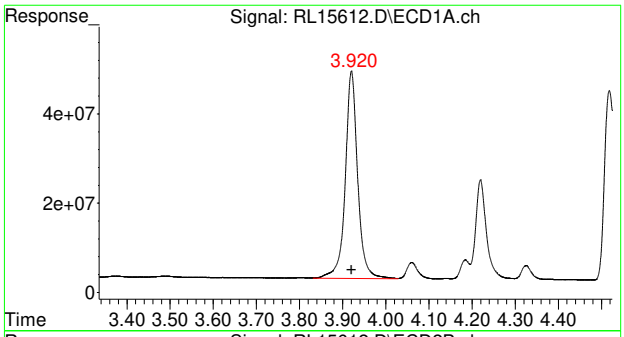
Data Path : C:\msdchem\1\data\grl343\
Data File : RL15612.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 03:23 am
Operator : christp
Sample : icc343-100 (Sig #1); ic343-100 (Sig #2)
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 20:19:28 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 05:54:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

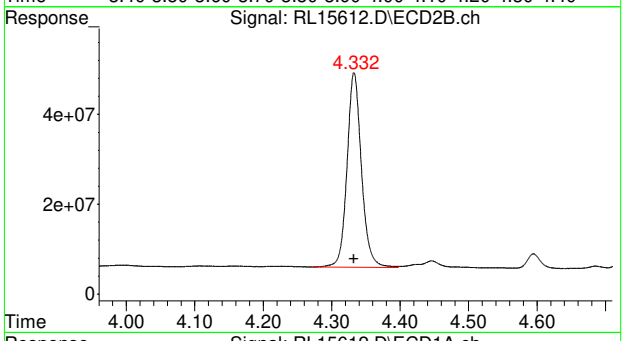






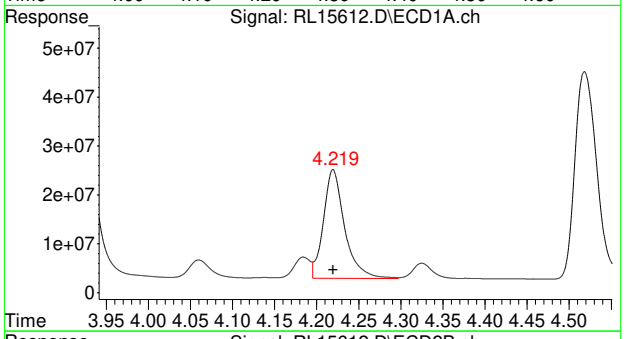
#1 Tetrachloro-m-xylene

R.T.: 3.920 min
Delta R.T.: 0.000 min
Response: 928722112
Conc: 4.79 ppb



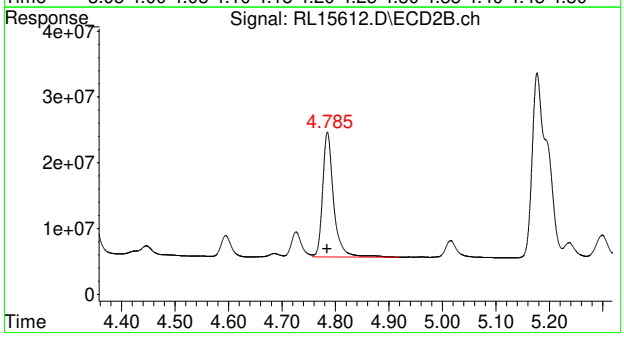
#1 Tetrachloro-m-xylene

R.T.: 4.333 min
Delta R.T.: 0.000 min
Response: 633039754
Conc: 4.41 ppb



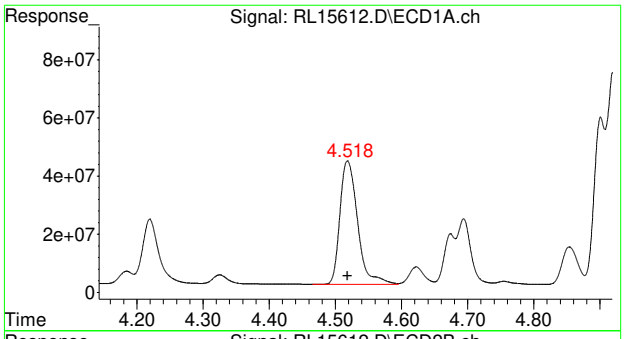
#41 AR1016-A

R.T.: 4.220 min
Delta R.T.: 0.000 min
Response: 388012025
Conc: 120.57 PPB



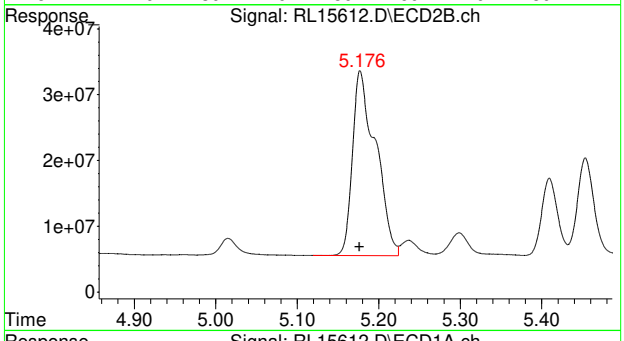
#41 AR1016-A

R.T.: 4.785 min
Delta R.T.: 0.000 min
Response: 271761769
Conc: 108.10 PPB



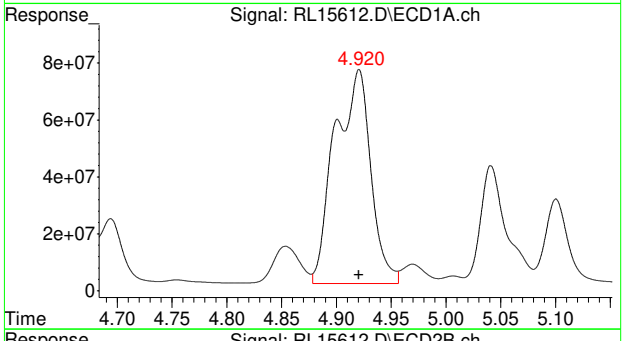
#42 AR1016-B

R.T.: 4.519 min
Delta R.T.: 0.000 min
Response: 788654452
Conc: 125.42 PPB



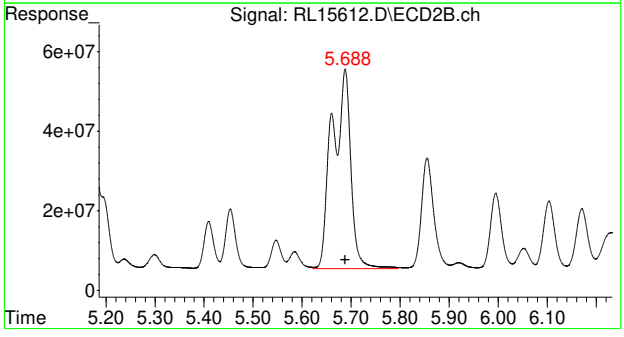
#42 AR1016-B

R.T.: 5.178 min
Delta R.T.: 0.001 min
Response: 554367804
Conc: 107.04 PPB



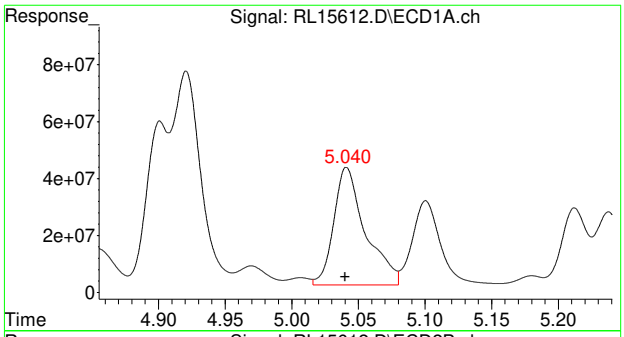
#43 AR1016-C

R.T.: 4.920 min
Delta R.T.: 0.000 min
Response: 1712622190
Conc: 122.68 PPB m



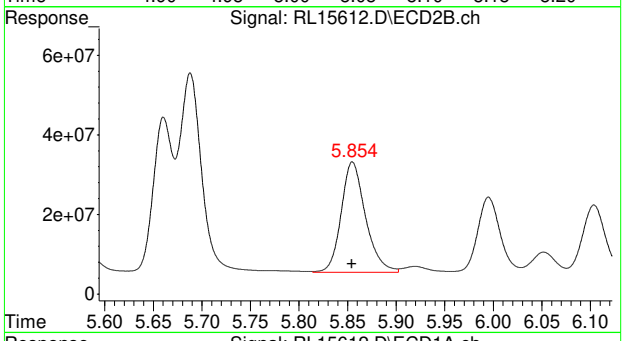
#43 AR1016-C

R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 1322694198
Conc: 111.49 PPB m



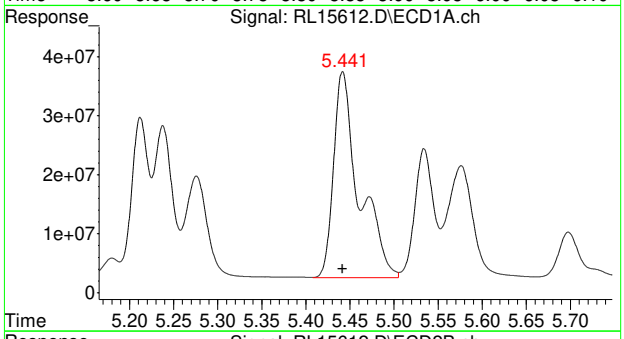
#44 AR1016-D

R.T.: 5.041 min
Delta R.T.: 0.001 min
Response: 682627947
Conc: 122.20 PPB



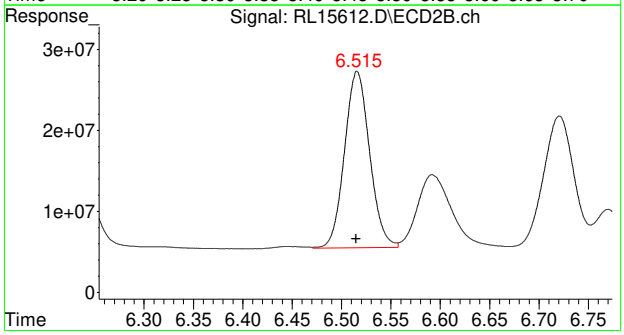
#44 AR1016-D

R.T.: 5.855 min
Delta R.T.: 0.000 min
Response: 484657223
Conc: 112.05 PPB



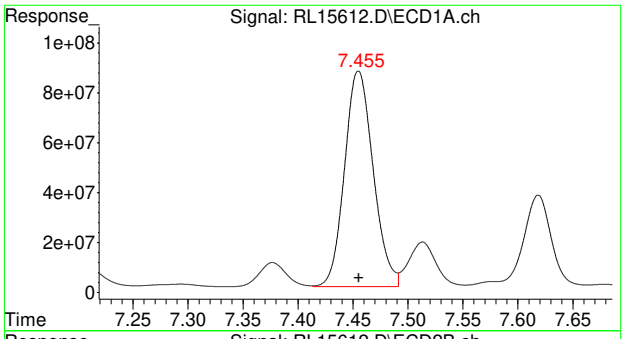
#45 AR1016-E

R.T.: 5.441 min
Delta R.T.: 0.000 min
Response: 702306184
Conc: 120.69 PPB m



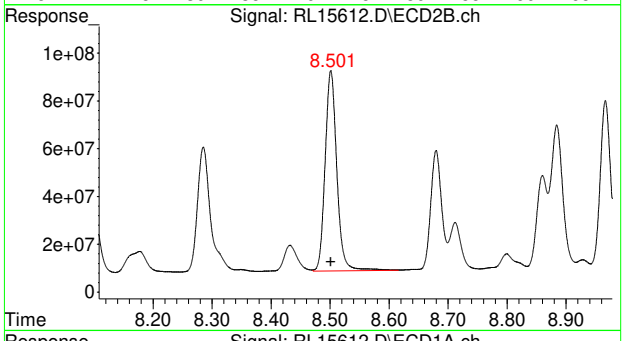
#45 AR1016-E

R.T.: 6.516 min
Delta R.T.: 0.000 min
Response: 385521520
Conc: 111.23 PPB



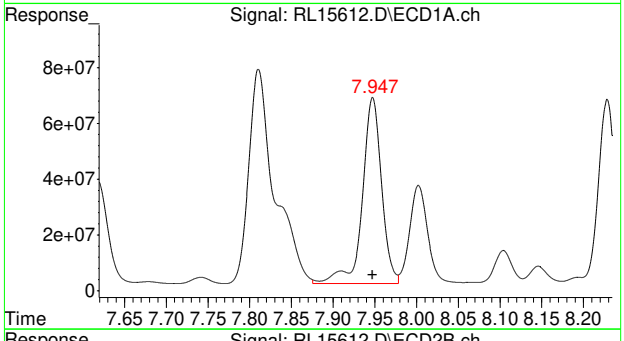
#46 AR1260-A

R.T.: 7.455 min
Delta R.T.: 0.000 min
Response: 1565802702
Conc: 137.64 PPB



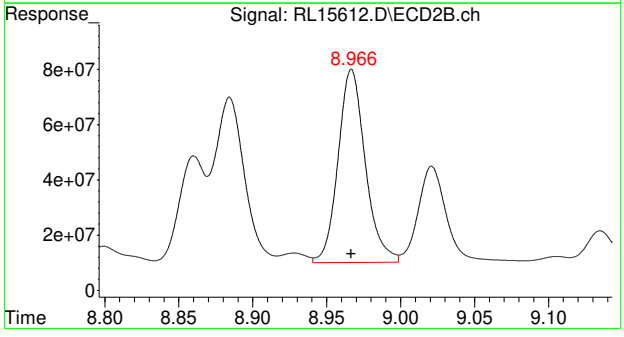
#46 AR1260-A

R.T.: 8.502 min
Delta R.T.: 0.000 min
Response: 1152879142
Conc: 159.34 PPB



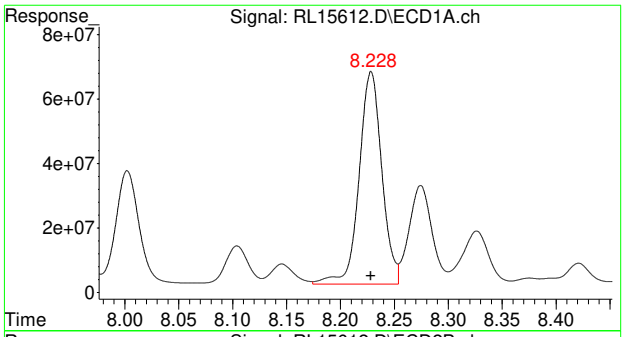
#47 AR1260-B

R.T.: 7.947 min
Delta R.T.: 0.000 min
Response: 1068948724
Conc: 150.41 PPB m



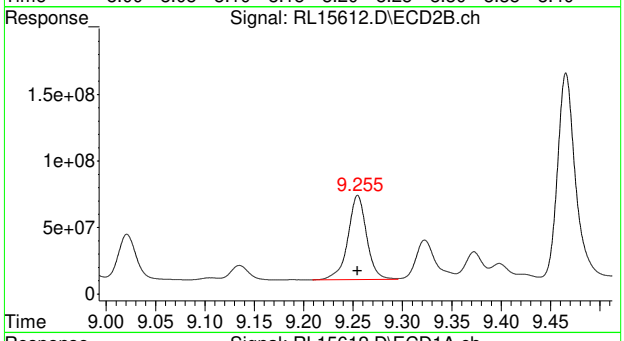
#47 AR1260-B

R.T.: 8.967 min
Delta R.T.: 0.000 min
Response: 897319310
Conc: 165.62 PPB



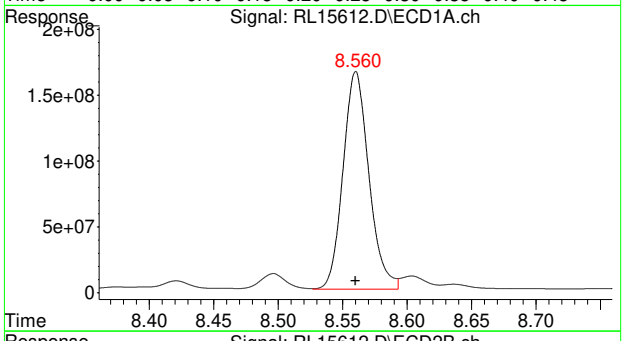
#48 AR1260-C

R.T.: 8.229 min
Delta R.T.: 0.000 min
Response: 967505744
Conc: 134.17 PPB



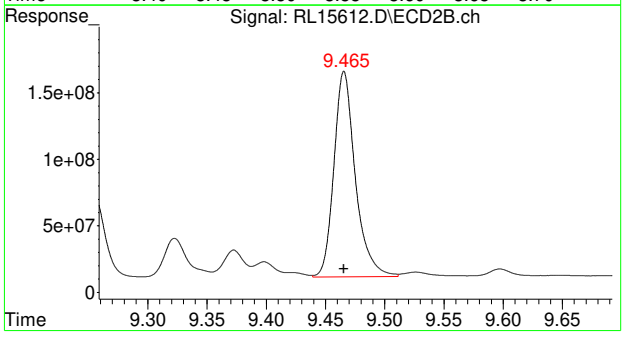
#48 AR1260-C

R.T.: 9.255 min
Delta R.T.: 0.000 min
Response: 835997557
Conc: 133.89 PPB



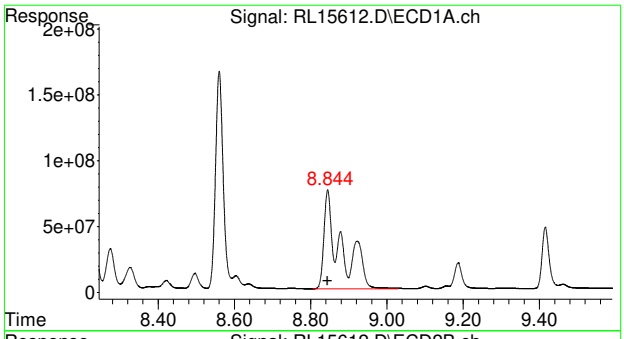
#49 AR1260-D

R.T.: 8.560 min
Delta R.T.: 0.000 min
Response: 2310352323
Conc: 134.21 PPB



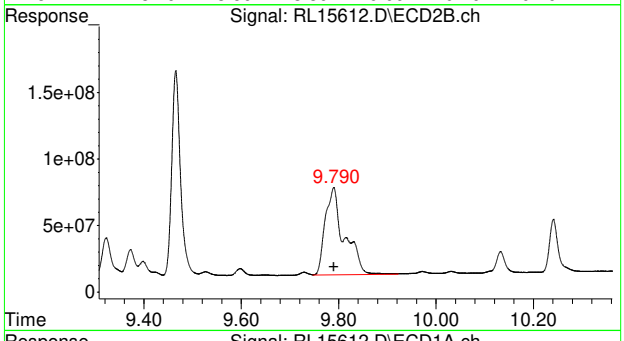
#49 AR1260-D

R.T.: 9.466 min
Delta R.T.: 0.000 min
Response: 1946497230
Conc: 144.71 PPB



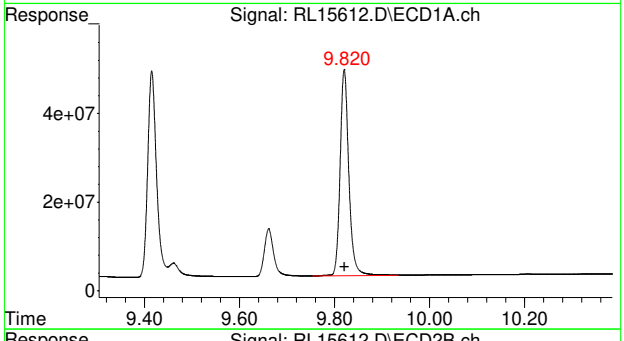
#50 AR1260-E

R.T.: 8.844 min
Delta R.T.: 0.000 min
Response: 2309833113
Conc: 140.28 PPB m



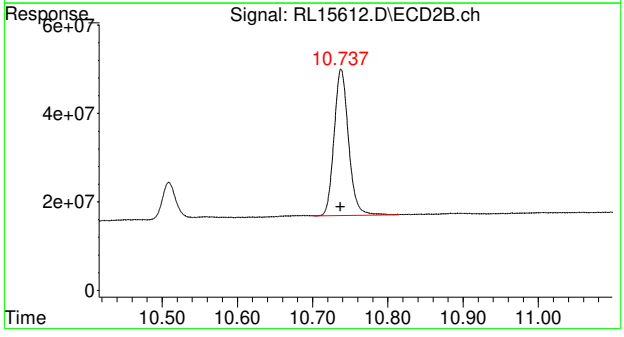
#50 AR1260-E

R.T.: 9.790 min
Delta R.T.: 0.000 min
Response: 1794500908
Conc: 138.64 PPB



#51 Decachlorobiphenyl

R.T.: 9.821 min
Delta R.T.: 0.000 min
Response: 594922563
Conc: 5.25 ppb



#51 Decachlorobiphenyl

R.T.: 10.737 min
Delta R.T.: 0.000 min
Response: 442805661
Conc: 4.73 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Rebecca Krug
04/29/24 20:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl343\
Data File : RL15619.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 05:21 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:05:44 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:05:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1)	S Tetrachlo...	3.921	4.333	930.7E6	609.9E6	4.796	4.252
	Spiked Amount 40.000			Recovery	=	11.99%	10.63%
51)	S Decachlor...	9.821	10.739	622.9E6	454.0E6	5.492	4.852m
	Spiked Amount 40.000			Recovery	=	13.73%	12.13%
	Target Compounds						
2)	AR1221-A	3.476	3.921	164.1E6	106.0E6	121.883	99.474
3)	AR1221-B	4.061	4.595	231.7E6	157.9E6	125.559	108.588
4)	AR1221-C	4.220	4.785	626.2E6	435.1E6	137.742	123.547
5)	AR1221-D	4.519	5.237f	113.1E6	119.1E6	100.923m	92.793m
6)	AR1221-E	4.901	5.687	146.5E6	81984449	119.051	80.063m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

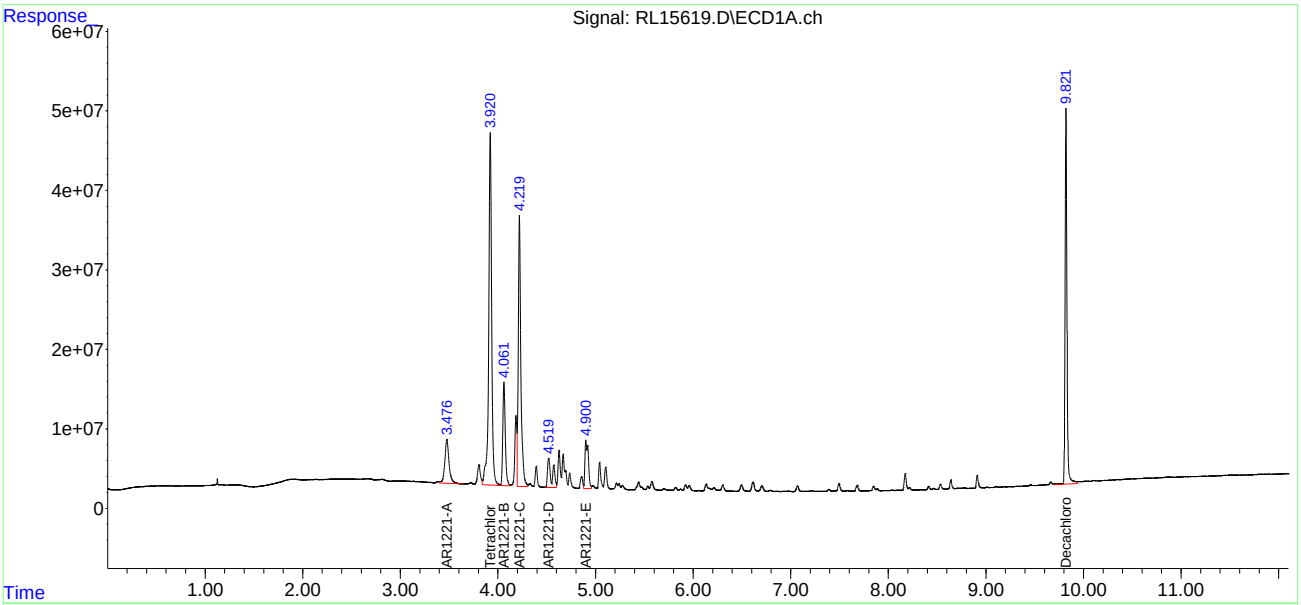
9.3.8

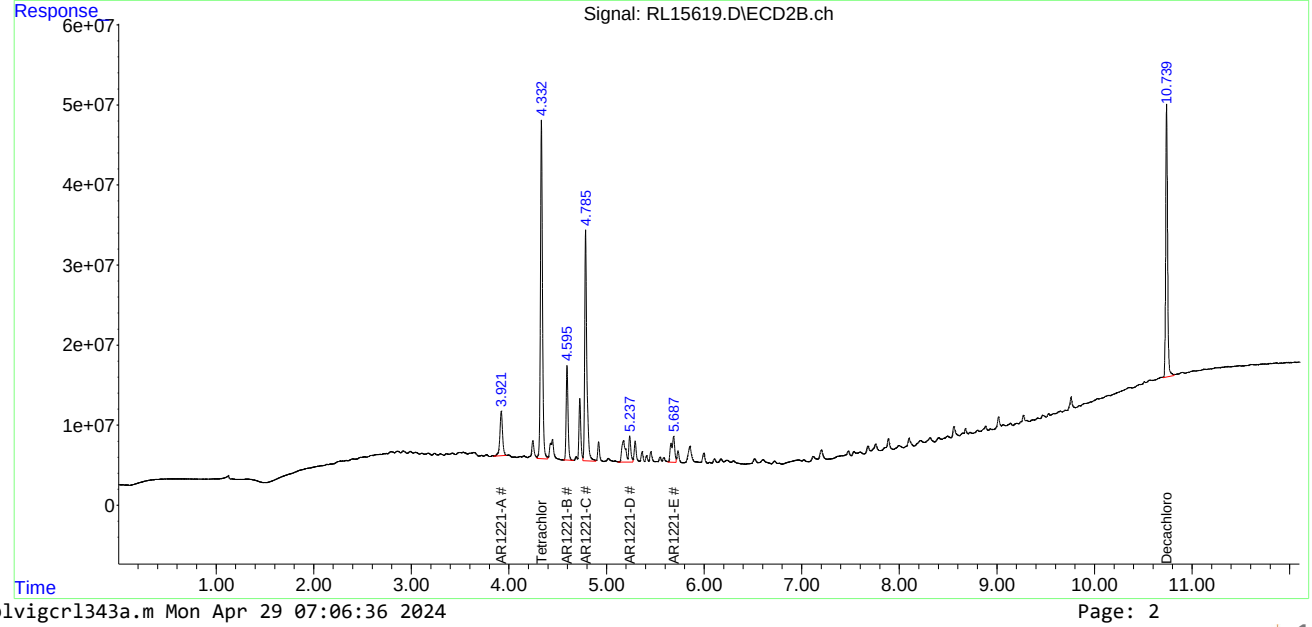
Quantitation Report (QT Reviewed)

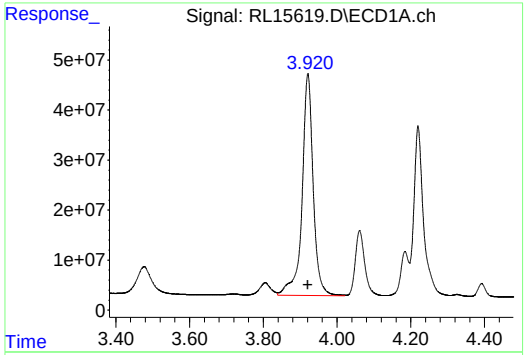
Data Path : C:\msdchem\1\data\grl343\
Data File : RL15619.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 05:21 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:05:44 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:05:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

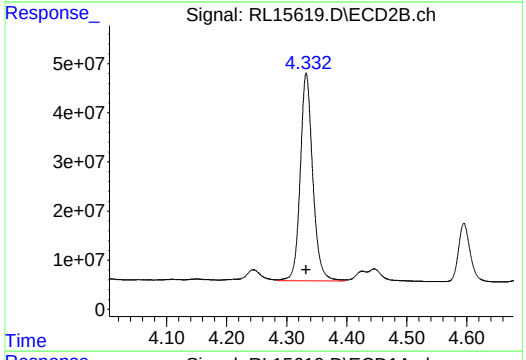






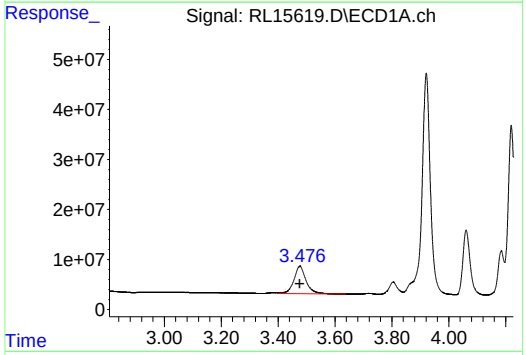
#1 Tetrachloro-m-xylene

R.T.: 3.921 min
Delta R.T.: 0.000 min
Response: 930710950
Conc: 4.80 ppb



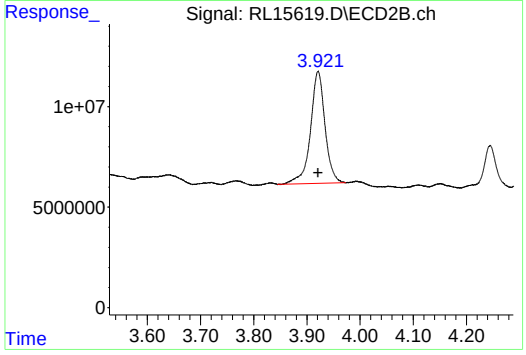
#1 Tetrachloro-m-xylene

R.T.: 4.333 min
Delta R.T.: 0.000 min
Response: 609944500
Conc: 4.25 ppb



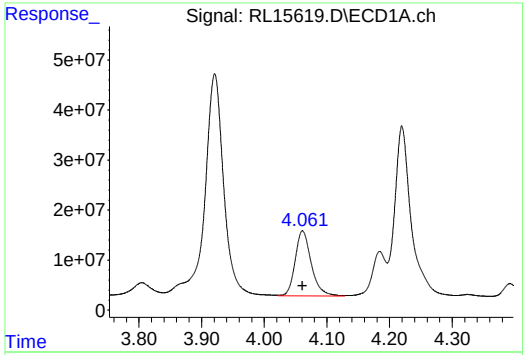
#2 AR1221-A

R.T.: 3.476 min
Delta R.T.: 0.000 min
Response: 164112928
Conc: 121.88



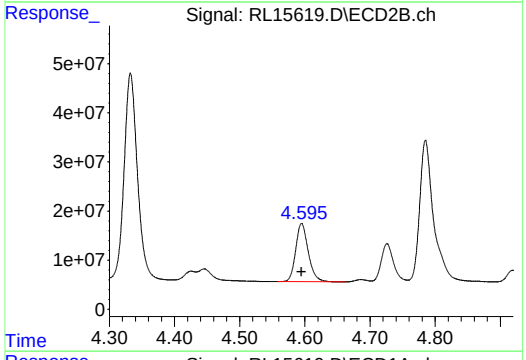
#2 AR1221-A

R.T.: 3.921 min
Delta R.T.: 0.000 min
Response: 105979217
Conc: 99.47



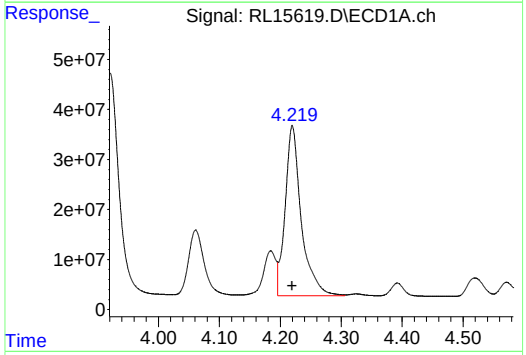
#3 AR1221-B

R.T.: 4.061 min
Delta R.T.: 0.000 min
Response: 231717067
Conc: 125.56 PPB



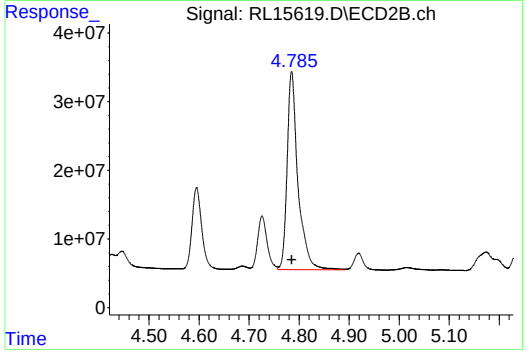
#3 AR1221-B

R.T.: 4.595 min
Delta R.T.: 0.000 min
Response: 157901314
Conc: 108.59 PPB



#4 AR1221-C

R.T.: 4.220 min
Delta R.T.: 0.000 min
Response: 626168922
Conc: 137.74 PPB

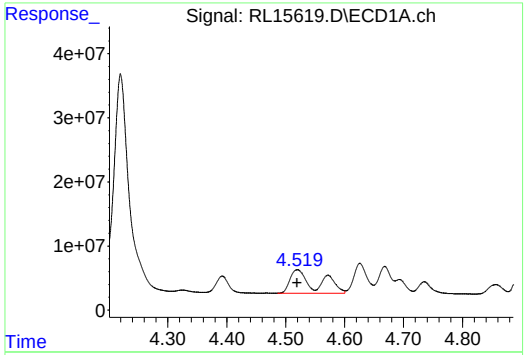


#4 AR1221-C

R.T.: 4.785 min
Delta R.T.: 0.000 min
Response: 435111711
Conc: 123.55 PPB

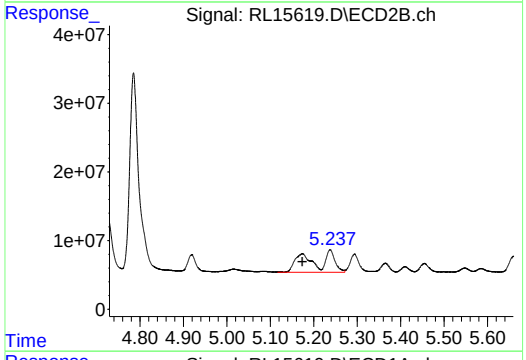
9.3.8

9



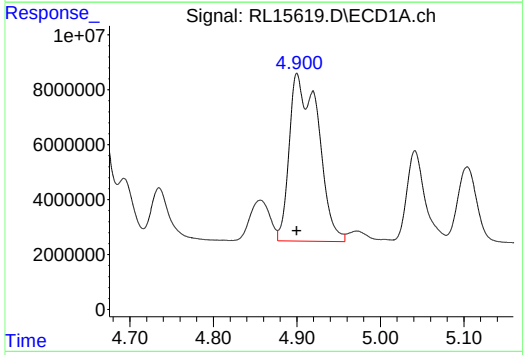
#5 AR1221-D

R.T.: 4.519 min
Delta R.T.: 0.000 min
Response: 113124482
Conc: 100.92 PPB m



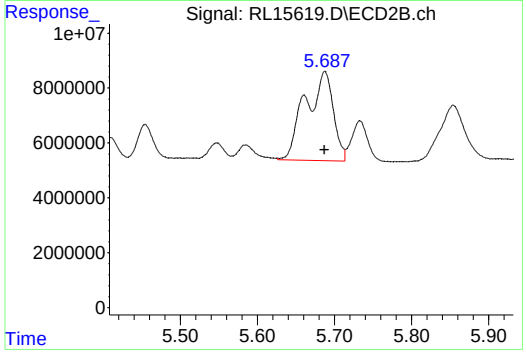
#5 AR1221-D

R.T.: 5.237 min
Delta R.T.: 0.064 min
Response: 119130329
Conc: 92.79 PPB m



#6 AR1221-E

R.T.: 4.901 min
Delta R.T.: 0.000 min
Response: 146475241
Conc: 119.05 PPB

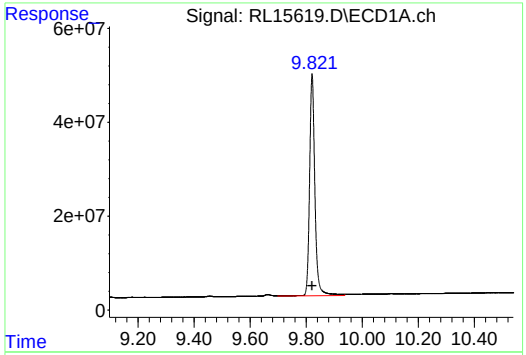


#6 AR1221-E

R.T.: 5.687 min
Delta R.T.: 0.000 min
Response: 81984449
Conc: 80.06 PPB m

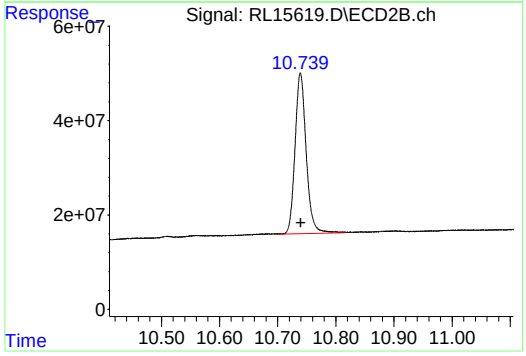
9.3.8

6



#51 Decachlorobiphenyl

R.T.: 9.821 min
Delta R.T.: 0.000 min
Response: 622922873
Conc: 5.49 ppb



#51 Decachlorobiphenyl

R.T.: 10.739 min
Delta R.T.: 0.000 min
Response: 454029086
Conc: 4.85 ppb m

9.3.8

6

Manual Integrations APPROVED
(compounds with "m" flag)
Rebecca Krug
04/29/24 20:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl343\
Data File : RL15620.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 05:38 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:07:28 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:07:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.922	4.334	856.4E6	599.7E6	4.413	4.181
	Spiked Amount 40.000			Recovery	=	11.03%	10.45%
51) S	Decachlor...	9.828	10.751	620.2E6	481.6E6	5.468	5.146
	Spiked Amount 40.000			Recovery	=	13.67%	12.86%
	Target Compounds						
24)	AR1254-A	5.874	7.198	664.2E6	579.8E6	109.256	115.008
25)	AR1254-B	6.203	7.454	1204.1E6	689.8E6	111.751	125.222
26)	AR1254-C	6.603	7.923	717.3E6	480.6E6	127.482	112.539
27)	AR1254-D	6.794	8.065	1260.4E6	1072.8E6	117.477	116.873
28)	AR1254-E	7.210	8.316	972.6E6	853.7E6	134.728	141.230
29)	AR1254-F	7.463	8.684	913.7E6	776.4E6	136.149	118.752m
30)	AR1254-G	7.817	8.889	1278.9E6	995.0E6	135.154	153.870

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.3.9

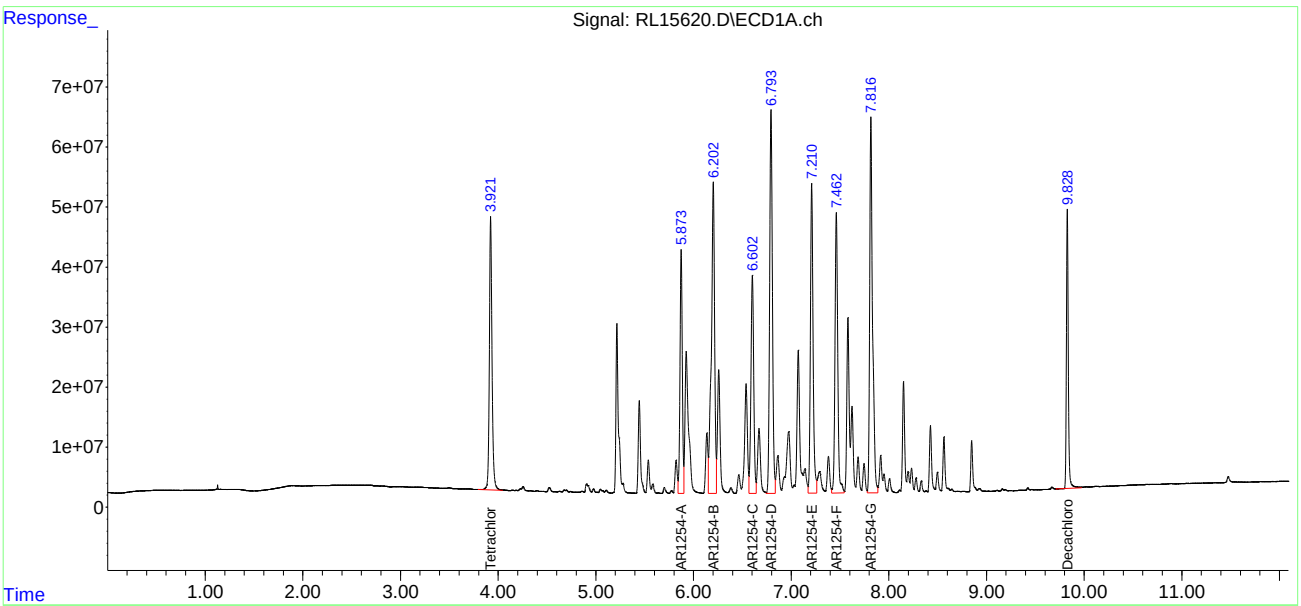
9

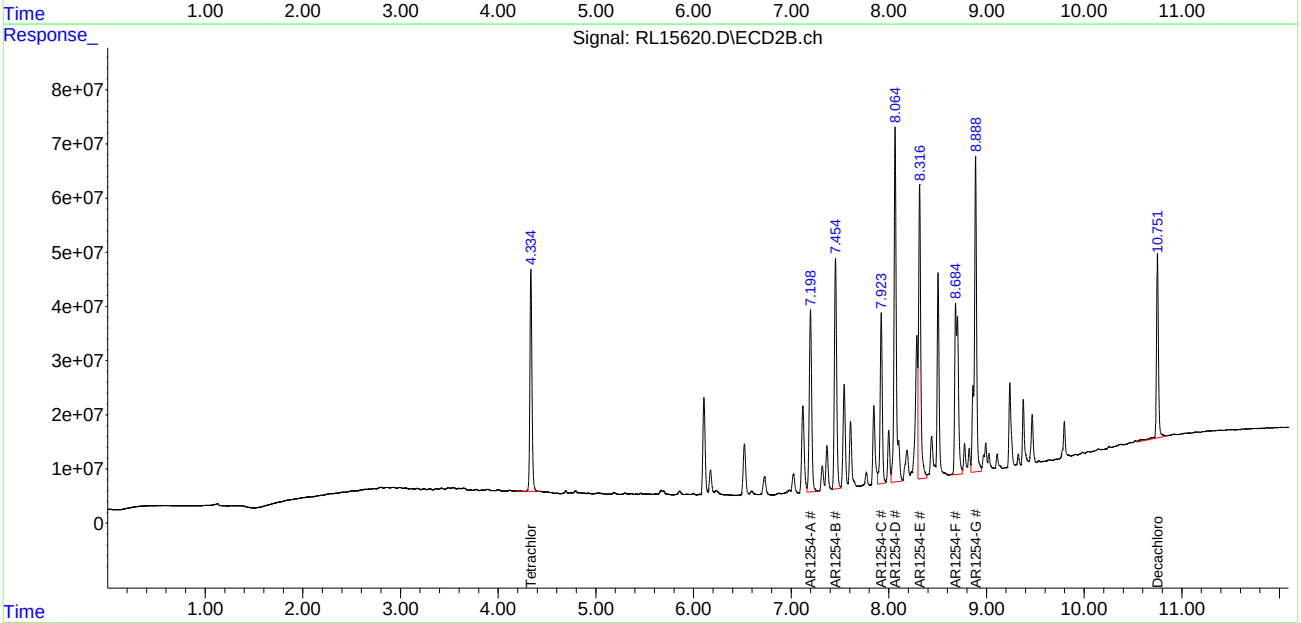
Quantitation Report (QT Reviewed)

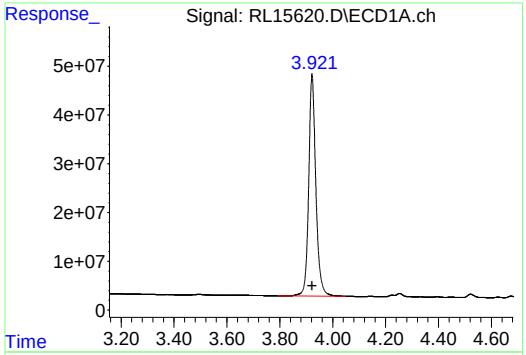
Data Path : C:\msdchem\1\data\grl343\
Data File : RL15620.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 05:38 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:07:28 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:07:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

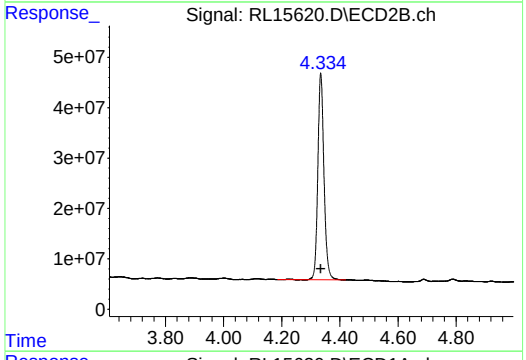






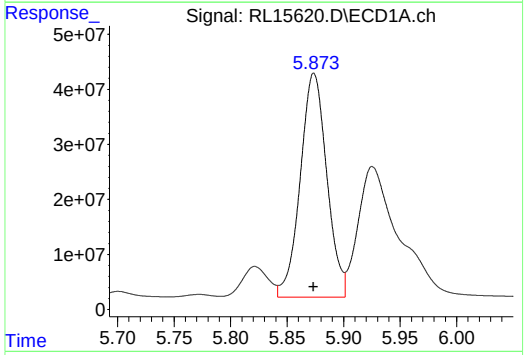
#1 Tetrachloro-m-xylene

R.T.: 3.922 min
Delta R.T.: 0.000 min
Response: 856388736
Conc: 4.41 ppb



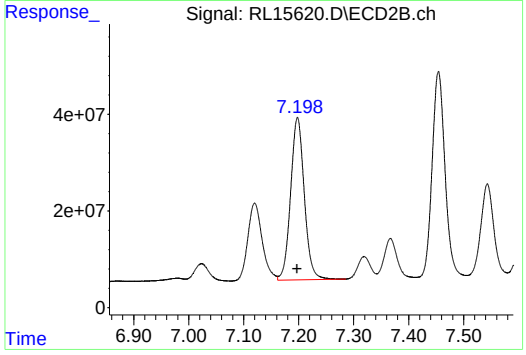
#1 Tetrachloro-m-xylene

R.T.: 4.334 min
Delta R.T.: 0.000 min
Response: 599651807
Conc: 4.18 ppb



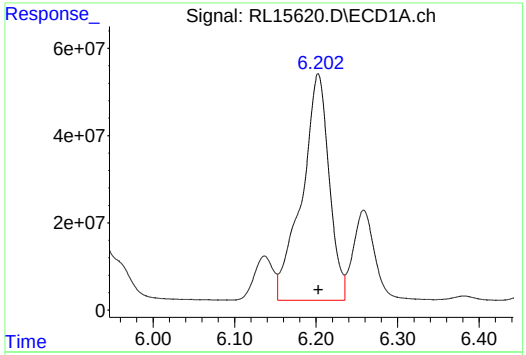
#24 AR1254-A

R.T.: 5.874 min
Delta R.T.: 0.000 min
Response: 664151486
Conc: 109.26 PPB



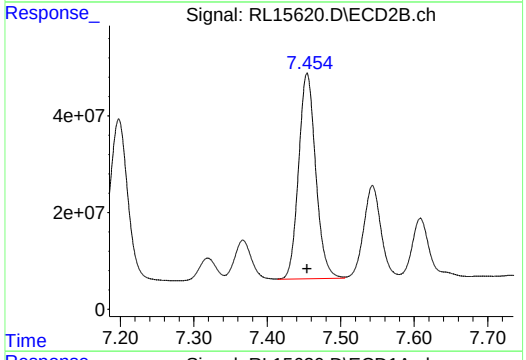
#24 AR1254-A

R.T.: 7.198 min
Delta R.T.: 0.000 min
Response: 579817639
Conc: 115.01 PPB



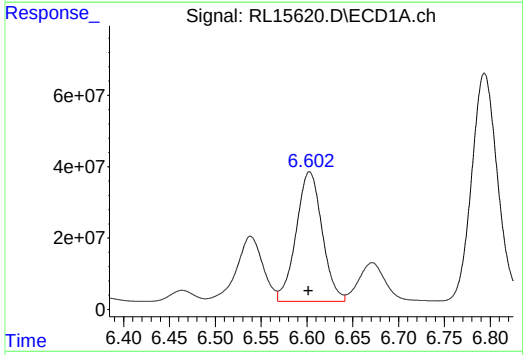
#25 AR1254-B

R.T.: 6.203 min
Delta R.T.: 0.000 min
Response: 1204087095
Conc: 111.75 PPB



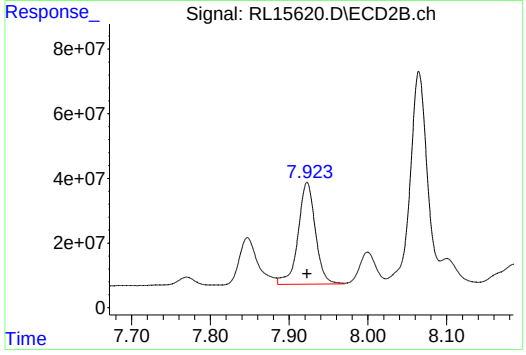
#25 AR1254-B

R.T.: 7.454 min
Delta R.T.: 0.000 min
Response: 689803082
Conc: 125.22 PPB



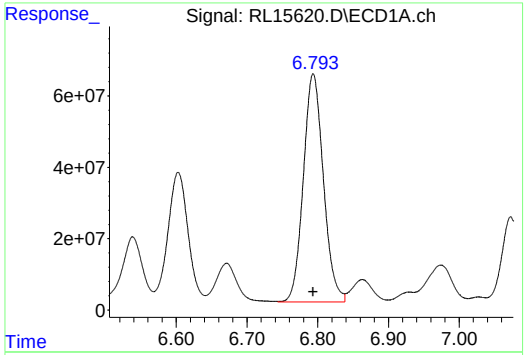
#26 AR1254-C

R.T.: 6.603 min
Delta R.T.: 0.001 min
Response: 717300465
Conc: 127.48 PPB



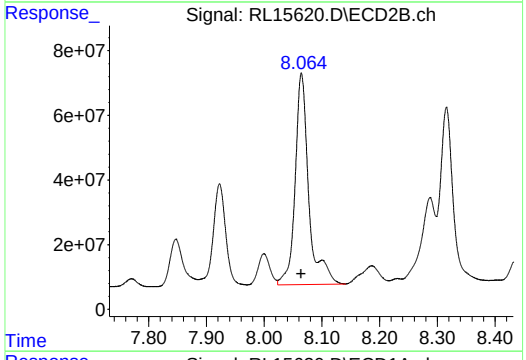
#26 AR1254-C

R.T.: 7.923 min
Delta R.T.: 0.000 min
Response: 480568872
Conc: 112.54 PPB



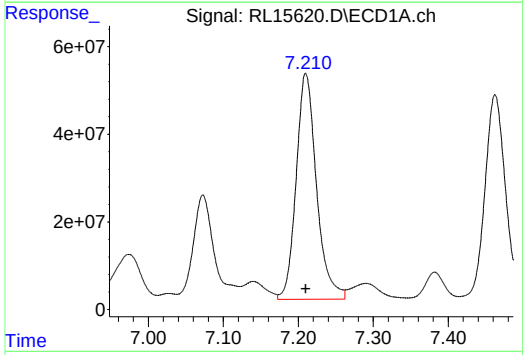
#27 AR1254-D

R.T.: 6.794 min
Delta R.T.: 0.000 min
Response: 1260391457
Conc: 117.48 PPB



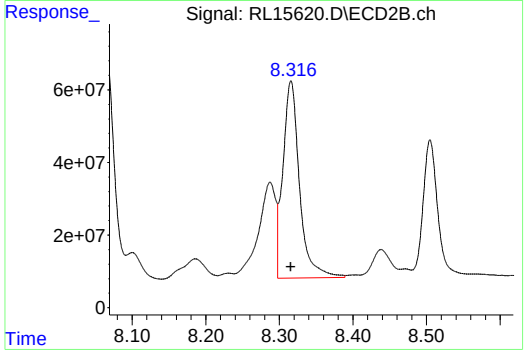
#27 AR1254-D

R.T.: 8.065 min
Delta R.T.: 0.000 min
Response: 1072751334
Conc: 116.87 PPB



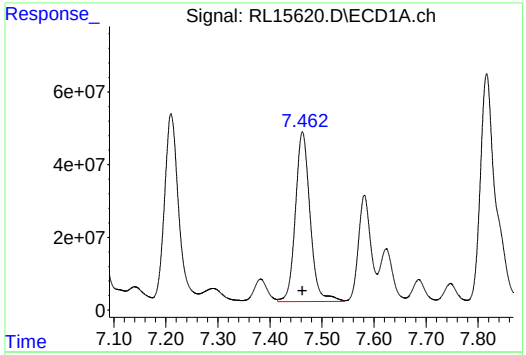
#28 AR1254-E

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 972639241
Conc: 134.73 PPB



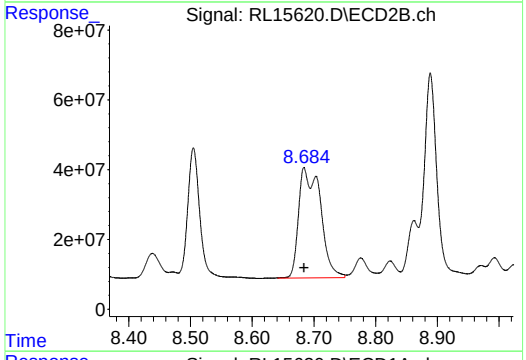
#28 AR1254-E

R.T.: 8.316 min
Delta R.T.: 0.000 min
Response: 853682253
Conc: 141.23 PPB



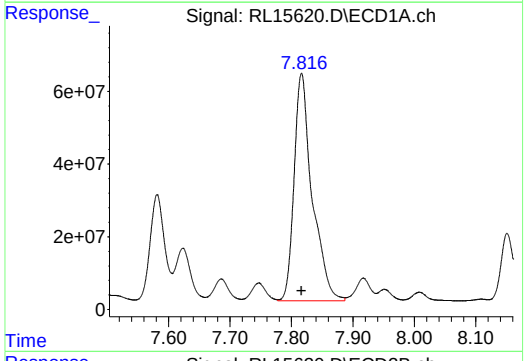
#29 AR1254-F

R.T.: 7.463 min
Delta R.T.: 0.000 min
Response: 913733523
Conc: 136.15 PPB



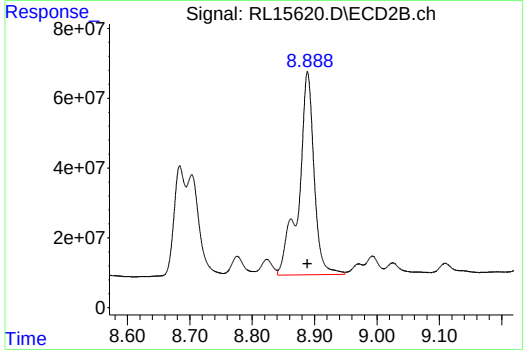
#29 AR1254-F

R.T.: 8.684 min
Delta R.T.: 0.000 min
Response: 776366222
Conc: 118.75 PPB m



#30 AR1254-G

R.T.: 7.817 min
Delta R.T.: 0.000 min
Response: 1278856446
Conc: 135.15 PPB

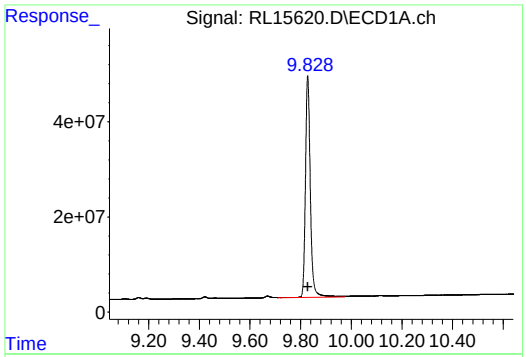


#30 AR1254-G

R.T.: 8.889 min
Delta R.T.: 0.000 min
Response: 994998445
Conc: 153.87 PPB

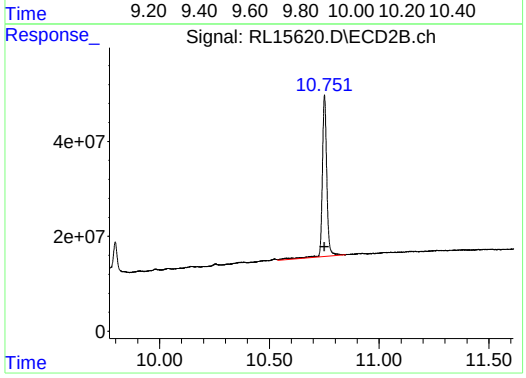
9.3.9

9



#51 Decachlorobiphenyl

R.T.: 9.828 min
Delta R.T.: 0.000 min
Response: 620229964
Conc: 5.47 ppb



#51 Decachlorobiphenyl

R.T.: 10.751 min
Delta R.T.: 0.000 min
Response: 481596916
Conc: 5.15 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Rebecca Krug
04/29/24 20:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl343\
Data File : RL15621.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 05:55 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:08:57 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:08:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1)	S Tetrachlo...	3.924	4.335	860.4E6	571.5E6	4.434	3.984
	Spiked Amount 40.000			Recovery	=	11.09%	9.96%
51)	S Decachlor...	9.830	10.754	587.6E6	431.4E6	5.180	4.609m
	Spiked Amount 40.000			Recovery	=	12.95%	11.52%
	Target Compounds						
7)	AR1232-A	4.223	4.788	532.2E6	308.2E6	148.420	113.377
8)	AR1232-B	4.523	5.180	354.0E6	233.9E6	131.257	102.006
9)	AR1232-C	4.923	5.691	739.9E6	514.6E6	126.984	112.898m
10)	AR1232-D	5.045	5.860	288.0E6	193.3E6	124.489	108.692
11)	AR1232-E	5.446	6.521	259.7E6	139.1E6	116.894	108.310

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

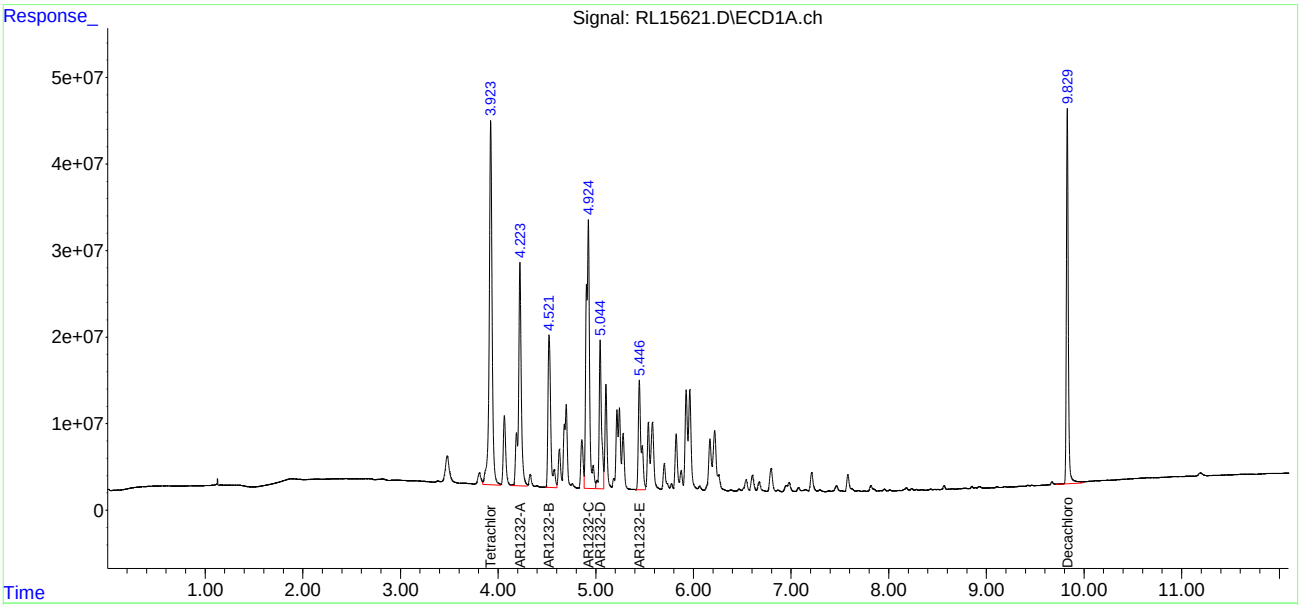
9.3.10
9

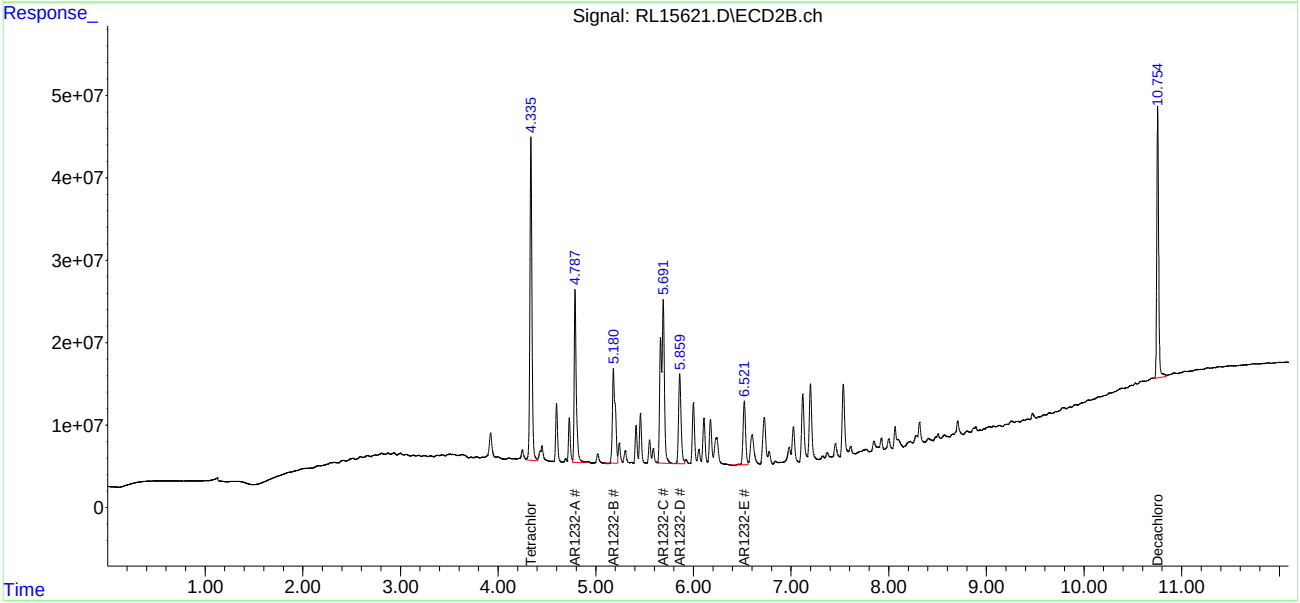
Quantitation Report (QT Reviewed)

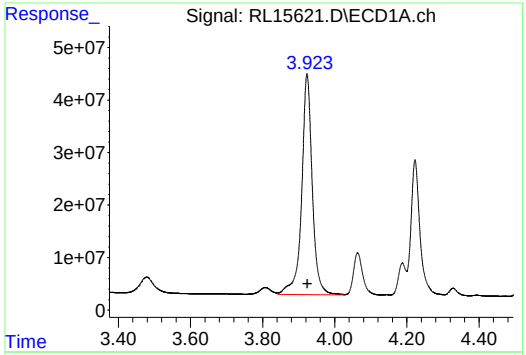
Data Path : C:\msdchem\1\data\grl343\
Data File : RL15621.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 05:55 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:08:57 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:08:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

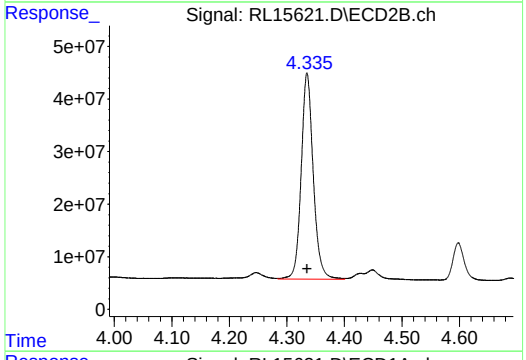






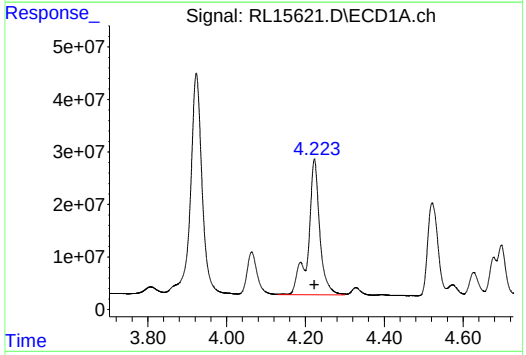
#1 Tetrachloro-m-xylene

R.T.: 3.924 min
Delta R.T.: 0.000 min
Response: 860437759
Conc: 4.43 ppb



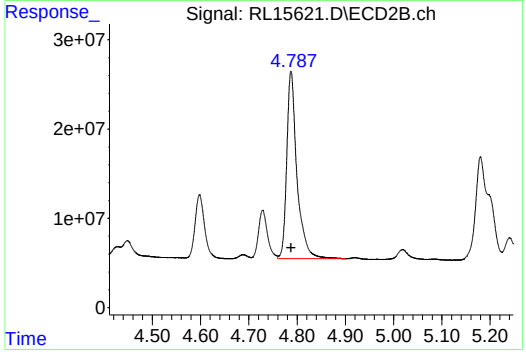
#1 Tetrachloro-m-xylene

R.T.: 4.335 min
Delta R.T.: 0.000 min
Response: 571465063
Conc: 3.98 ppb



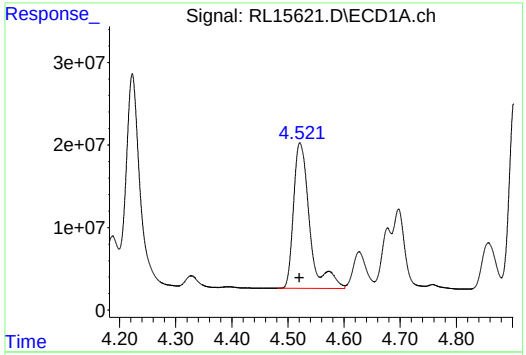
#7 AR1232-A

R.T.: 4.223 min
Delta R.T.: 0.000 min
Response: 532192037
Conc: 148.42 PPB



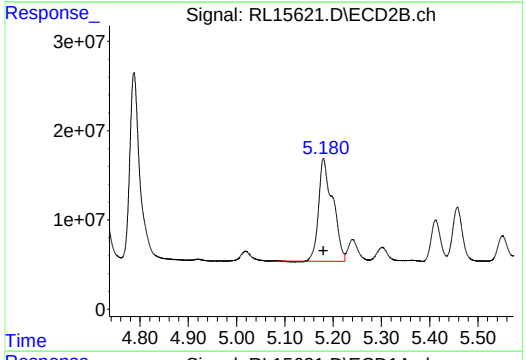
#7 AR1232-A

R.T.: 4.788 min
Delta R.T.: 0.000 min
Response: 308206942
Conc: 113.38 PPB



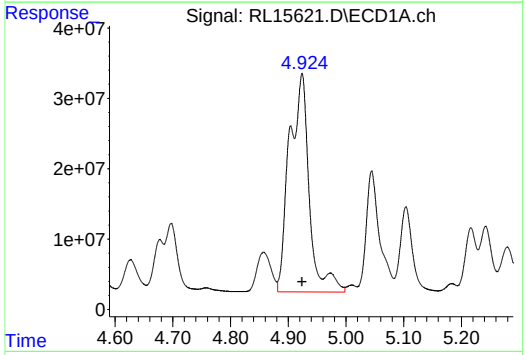
#8 AR1232-B

R.T.: 4.523 min
Delta R.T.: 0.002 min
Response: 354040331
Conc: 131.26 PPB



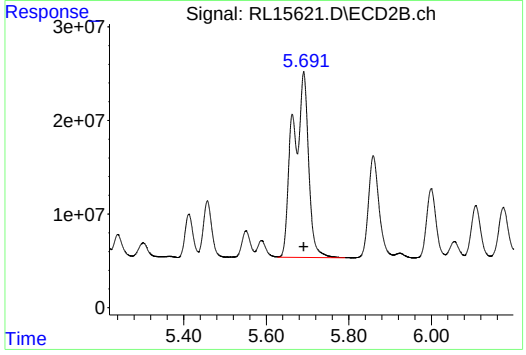
#8 AR1232-B

R.T.: 5.180 min
Delta R.T.: 0.000 min
Response: 233873470
Conc: 102.01 PPB



#9 AR1232-C

R.T.: 4.923 min
Delta R.T.: -0.001 min
Response: 739914457
Conc: 126.98 PPB

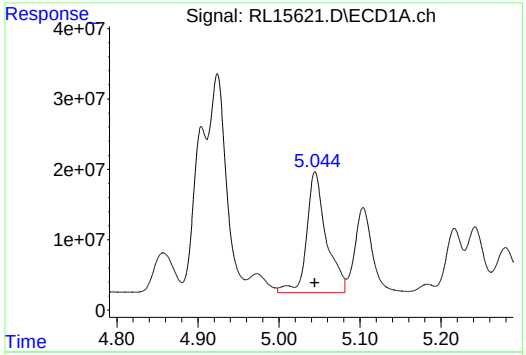


#9 AR1232-C

R.T.: 5.691 min
Delta R.T.: 0.000 min
Response: 514592262
Conc: 112.90 PPB m

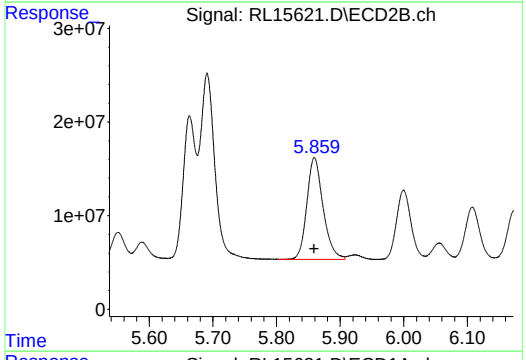
9.3.10

9



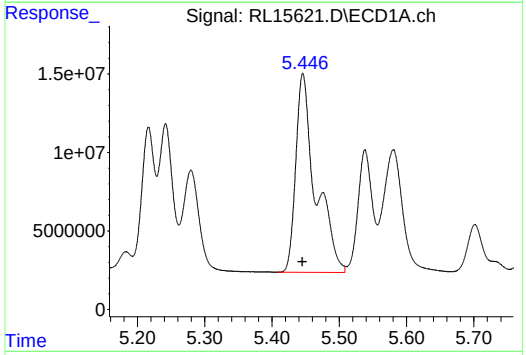
#10 AR1232-D

R.T.: 5.045 min
Delta R.T.: 0.000 min
Response: 288048747
Conc: 124.49 PPB



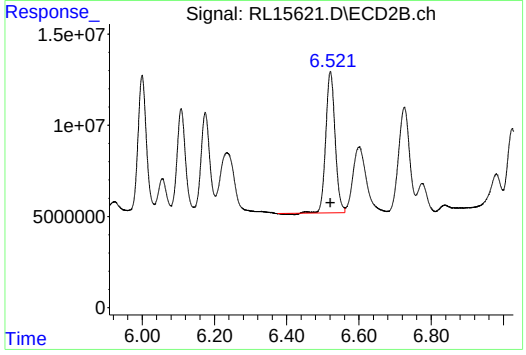
#10 AR1232-D

R.T.: 5.860 min
Delta R.T.: 0.000 min
Response: 193290324
Conc: 108.69 PPB



#11 AR1232-E

R.T.: 5.446 min
Delta R.T.: 0.000 min
Response: 259698875
Conc: 116.89 PPB

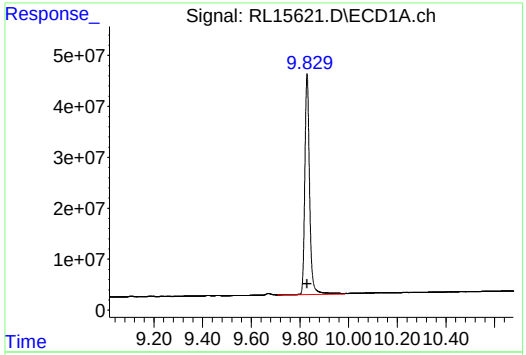


#11 AR1232-E

R.T.: 6.521 min
Delta R.T.: 0.000 min
Response: 139082532
Conc: 108.31 PPB

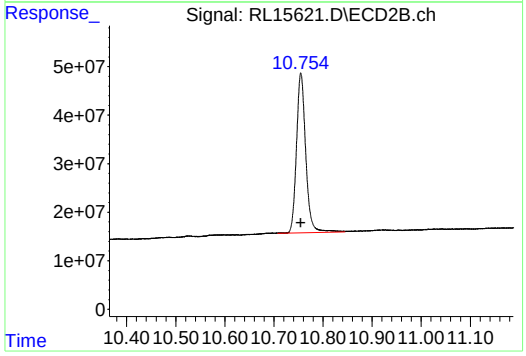
9.3.10

9



#51 Decachlorobiphenyl

R.T.: 9.830 min
Delta R.T.: 0.000 min
Response: 587550680
Conc: 5.18 ppb



#51 Decachlorobiphenyl

R.T.: 10.754 min
Delta R.T.: 0.000 min
Response: 431367630
Conc: 4.61 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Rebecca Krug
04/29/24 20:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl343\
Data File : RL15622.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 06:12 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:10:29 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:10:24 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.924	4.335	792.7E6	564.4E6	4.085	3.935
	Spiked Amount 40.000			Recovery	=	10.21%	9.84%
51) S	Decachlor...	9.833	10.762	576.7E6	430.1E6	5.085m	4.596
	Spiked Amount 40.000			Recovery	=	12.71%	11.49%
	Target Compounds						
31)	AR1262-A	7.460	8.507	1078.3E6	863.3E6	140.929	162.162
32)	AR1262-B	7.954	8.972	1456.4E6	1263.4E6	154.853	174.330
33)	AR1262-C	8.235	9.261	1173.8E6	980.3E6	141.256	142.066
34)	AR1262-D	8.568	9.472	2751.4E6	2085.9E6	156.370	151.053
35)	AR1262-E	8.884	9.787	2863.9E6	2188.0E6	153.233m	145.811m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

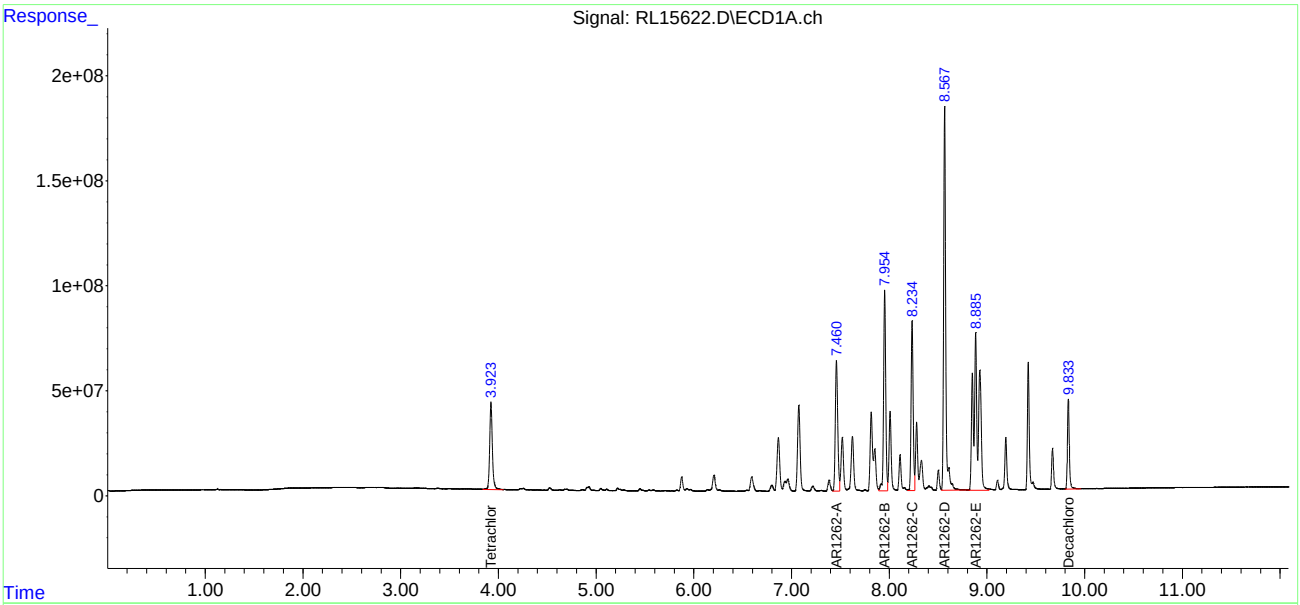
9.3.11
9

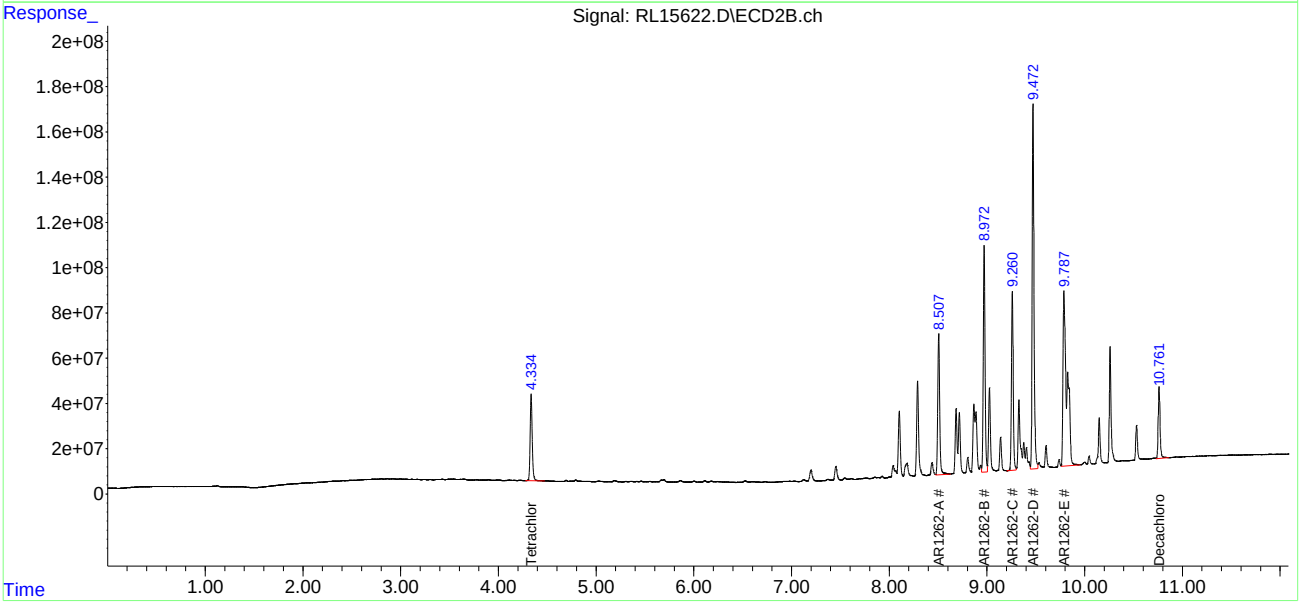
Quantitation Report (QT Reviewed)

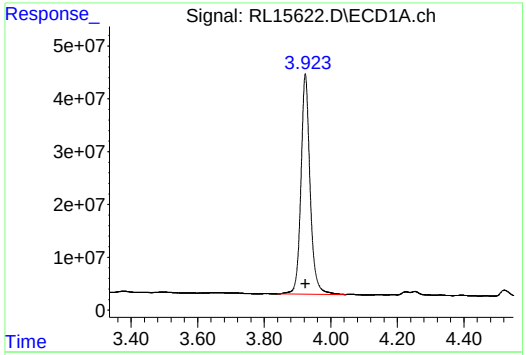
Data Path : C:\msdchem\1\data\grl343\
Data File : RL15622.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 06:12 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:10:29 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:10:24 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

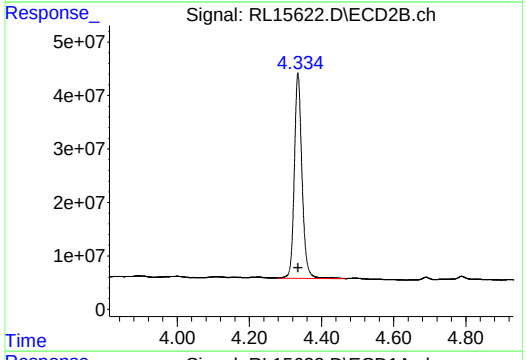






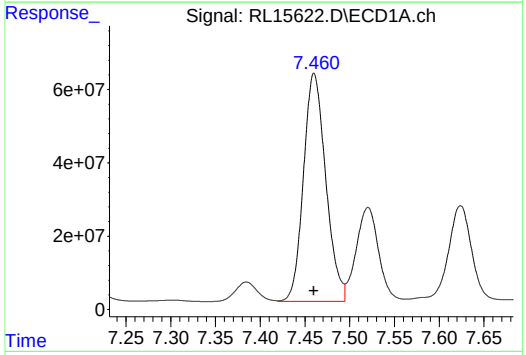
#1 Tetrachloro-m-xylene

R.T.: 3.924 min
Delta R.T.: 0.000 min
Response: 792695444
Conc: 4.08 ppb



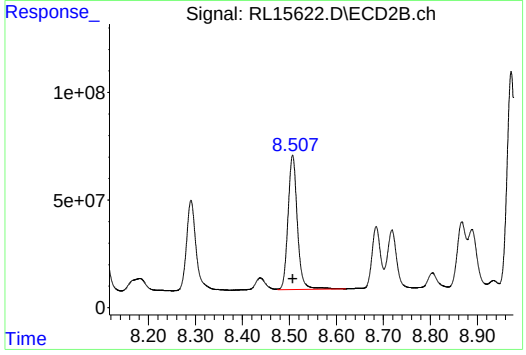
#1 Tetrachloro-m-xylene

R.T.: 4.335 min
Delta R.T.: 0.000 min
Response: 564414143
Conc: 3.94 ppb



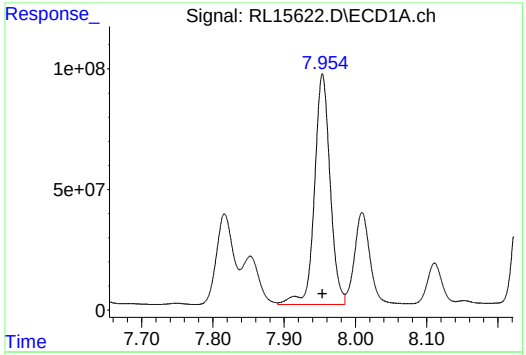
#31 AR1262-A

R.T.: 7.460 min
Delta R.T.: 0.000 min
Response: 1078310297
Conc: 140.93 PPB



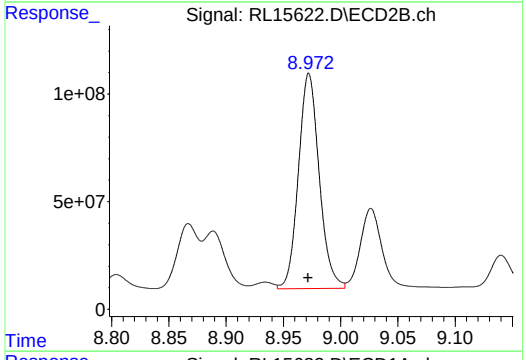
#31 AR1262-A

R.T.: 8.507 min
Delta R.T.: 0.000 min
Response: 863273518
Conc: 162.16 PPB



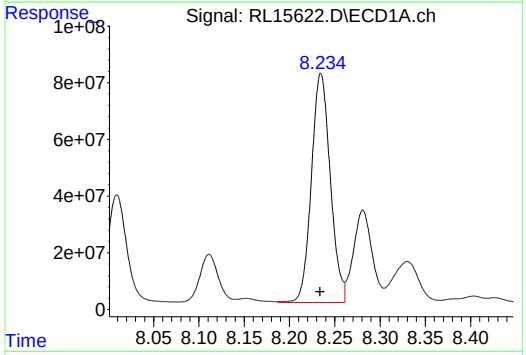
#32 AR1262-B

R.T.: 7.954 min
Delta R.T.: 0.000 min
Response: 1456443082
Conc: 154.85 PPB



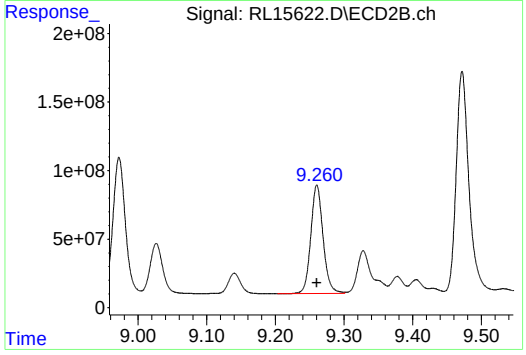
#32 AR1262-B

R.T.: 8.972 min
Delta R.T.: 0.000 min
Response: 1263406248
Conc: 174.33 PPB



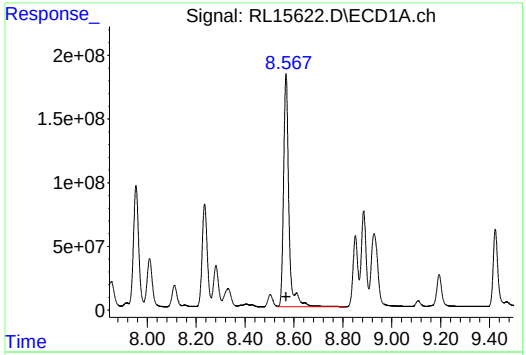
#33 AR1262-C

R.T.: 8.235 min
Delta R.T.: 0.000 min
Response: 1173772453
Conc: 141.26 PPB



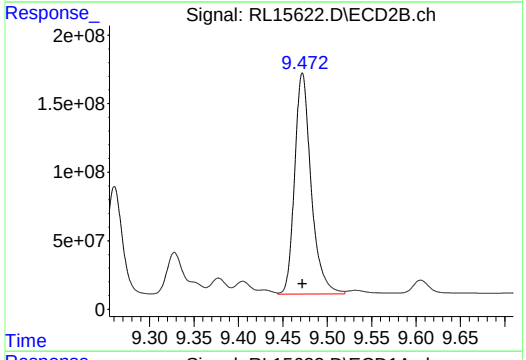
#33 AR1262-C

R.T.: 9.261 min
Delta R.T.: 0.000 min
Response: 980298667
Conc: 142.07 PPB



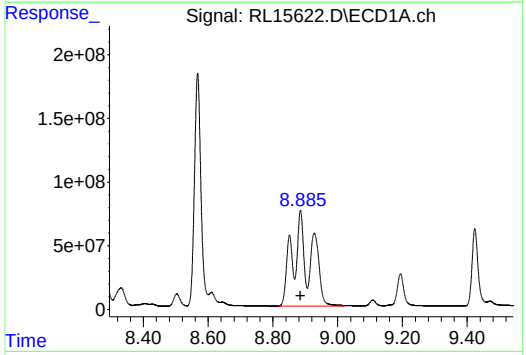
#34 AR1262-D

R.T.: 8.568 min
Delta R.T.: 0.000 min
Response: 2751409796
Conc: 156.37 PPB



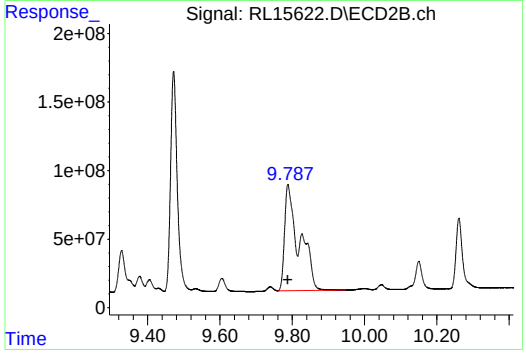
#34 AR1262-D

R.T.: 9.472 min
Delta R.T.: 0.000 min
Response: 2085933396
Conc: 151.05 PPB



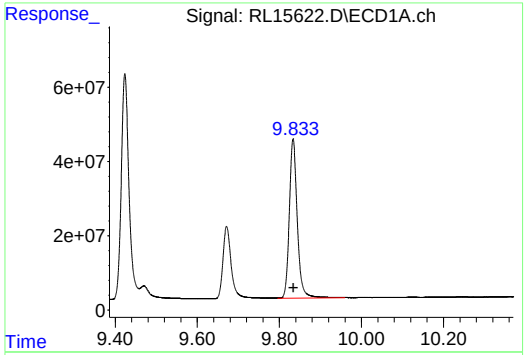
#35 AR1262-E

R.T.: 8.884 min
Delta R.T.: 0.000 min
Response: 2863874103
Conc: 153.23 PPB m



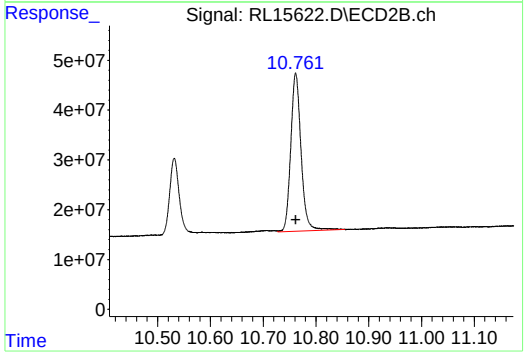
#35 AR1262-E

R.T.: 9.787 min
Delta R.T.: 0.000 min
Response: 2188042482
Conc: 145.81 PPB m



#51 Decachlorobiphenyl

R.T.: 9.833 min
Delta R.T.: 0.000 min
Response: 576745895
Conc: 5.08 ppb m



#51 Decachlorobiphenyl

R.T.: 10.762 min
Delta R.T.: 0.000 min
Response: 430090840
Conc: 4.60 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Rebecca Krug
04/29/24 20:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl343\
Data File : RL15623.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 06:28 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:12:16 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:12:11 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1)	S Tetrachlo...	3.923	4.335	849.8E6	574.0E6	4.379	4.002
	Spiked Amount 40.000			Recovery	=	10.95%	10.01%
51)	S Decachlor...	9.832	10.761	584.4E6	454.8E6	5.152	4.860
	Spiked Amount 40.000			Recovery	=	12.88%	12.15%
	Target Compounds						
12)	AR1242-A	4.522	5.182	618.0E6	426.0E6	1274.758	108.977 #
13)	AR1242-B	4.924	5.692	1311.9E6	986.0E6	123.398	117.576m
14)	AR1242-C	5.045	5.861	523.5E6	359.3E6	123.887	111.659
15)	AR1242-D	5.447	6.521	395.4E6	294.2E6	89.278	113.198 #
16)	AR1242-E	5.963	7.199	447.4E6	357.1E6	125.701	114.207

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

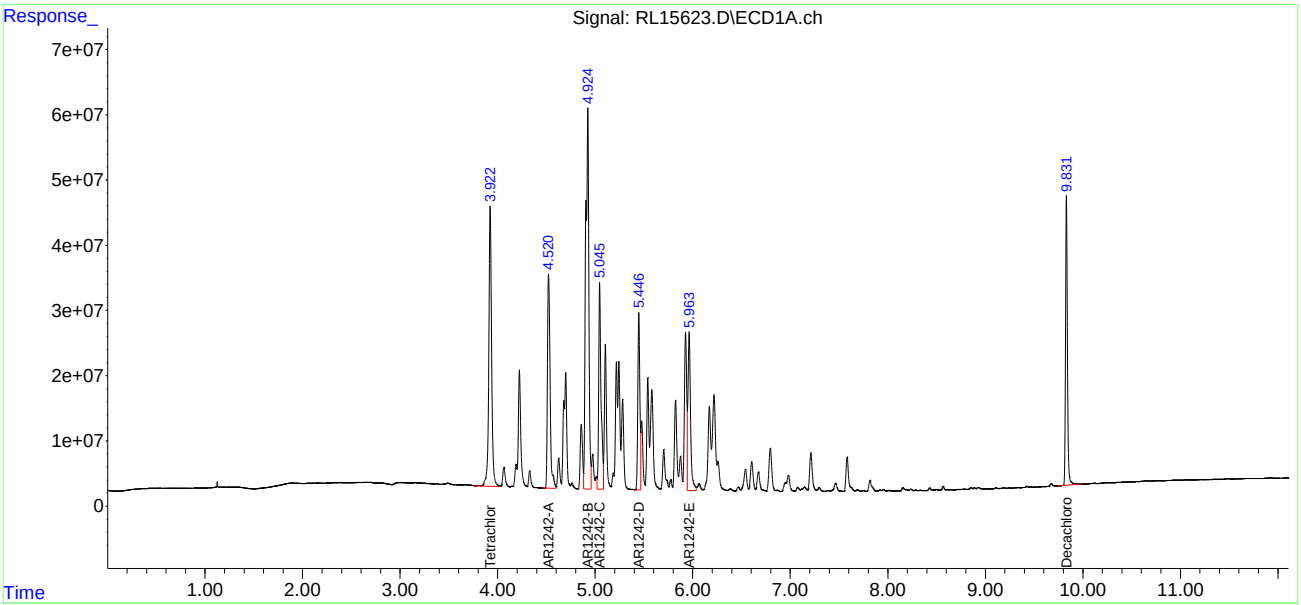
9.3.12
9

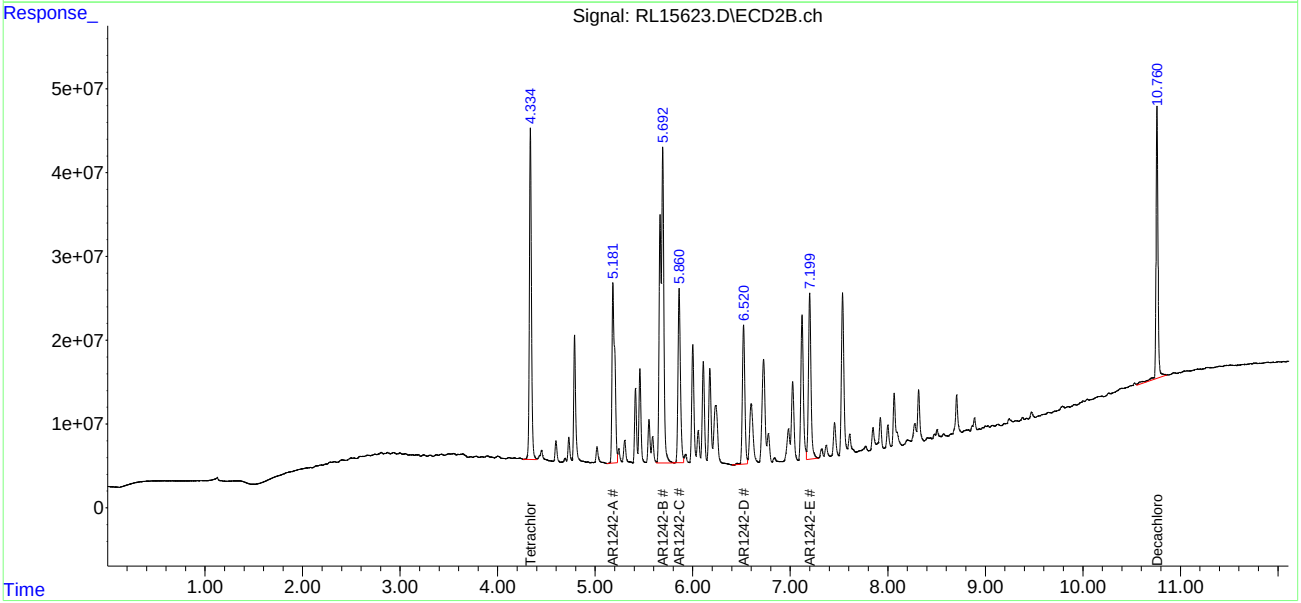
Quantitation Report (QT Reviewed)

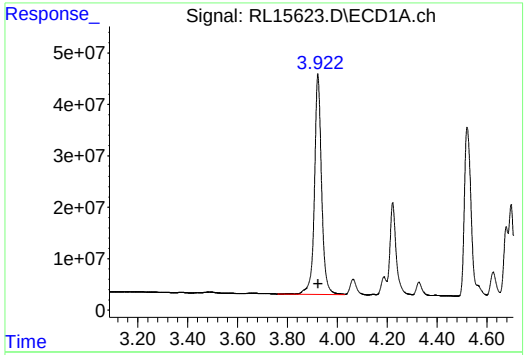
Data Path : C:\msdchem\1\data\grl343\
Data File : RL15623.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 06:28 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:12:16 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:12:11 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

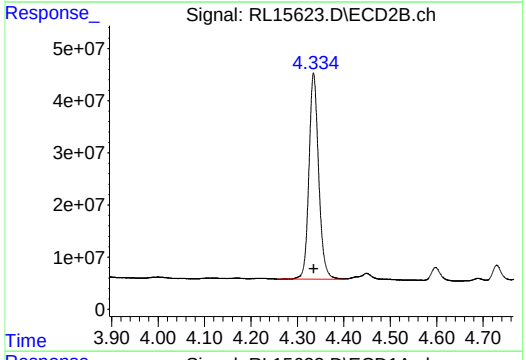






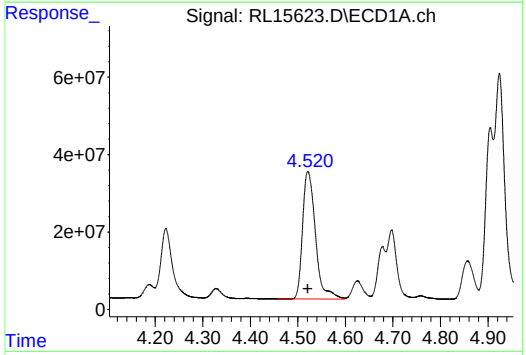
#1 Tetrachloro-m-xylene

R.T.: 3.923 min
Delta R.T.: 0.000 min
Response: 849811103
Conc: 4.38 ppb



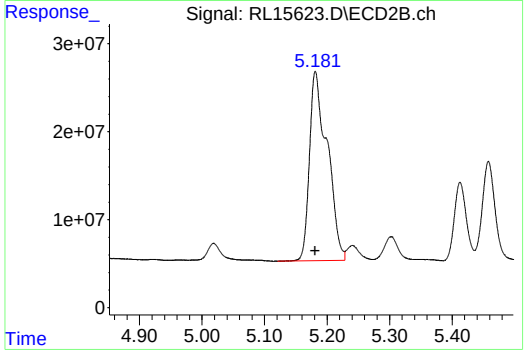
#1 Tetrachloro-m-xylene

R.T.: 4.335 min
Delta R.T.: 0.000 min
Response: 574005186
Conc: 4.00 ppb



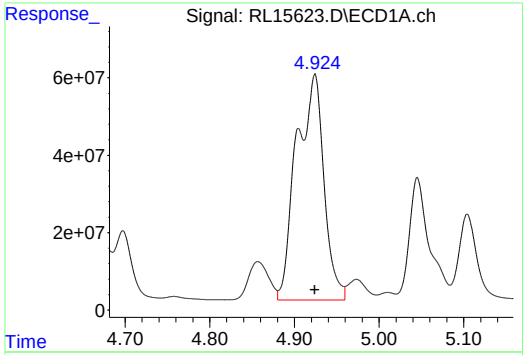
#12 AR1242-A

R.T.: 4.522 min
Delta R.T.: 0.001 min
Response: 618000386
Conc: 1274.76 PPB



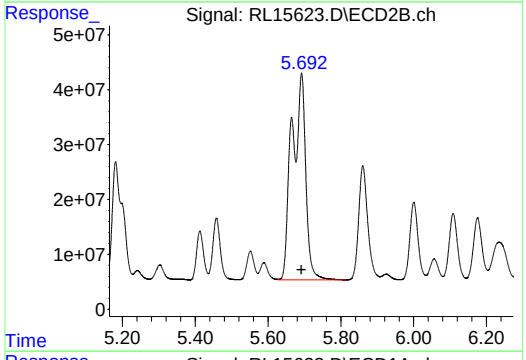
#12 AR1242-A

R.T.: 5.182 min
Delta R.T.: 0.000 min
Response: 425963145
Conc: 108.98 PPB



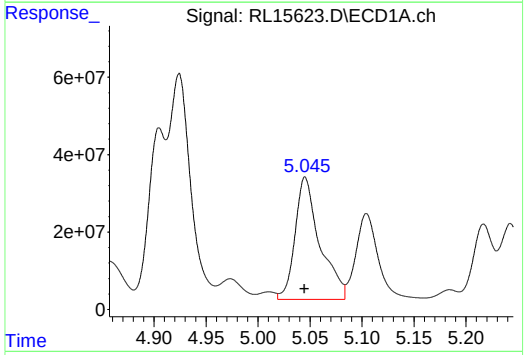
#13 AR1242-B

R.T.: 4.924 min
Delta R.T.: 0.000 min
Response: 1311882302
Conc: 123.40 PPB



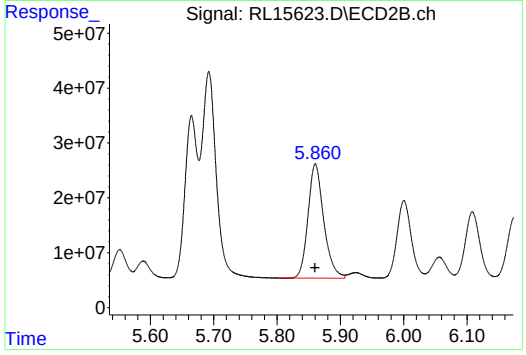
#13 AR1242-B

R.T.: 5.692 min
Delta R.T.: 0.000 min
Response: 986041777
Conc: 117.58 PPB m



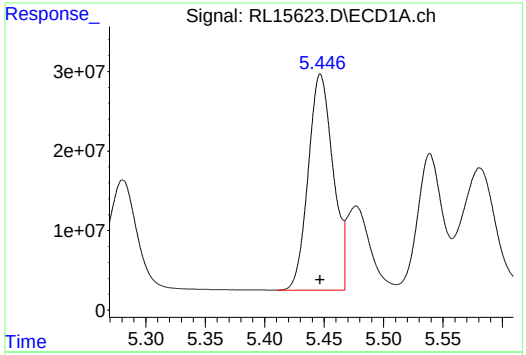
#14 AR1242-C

R.T.: 5.045 min
Delta R.T.: 0.000 min
Response: 523454257
Conc: 123.89 PPB



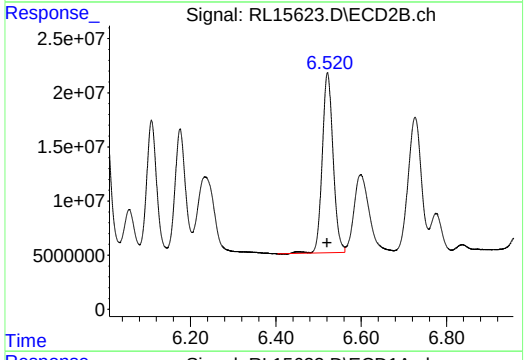
#14 AR1242-C

R.T.: 5.861 min
Delta R.T.: 0.000 min
Response: 359302954
Conc: 111.66 PPB



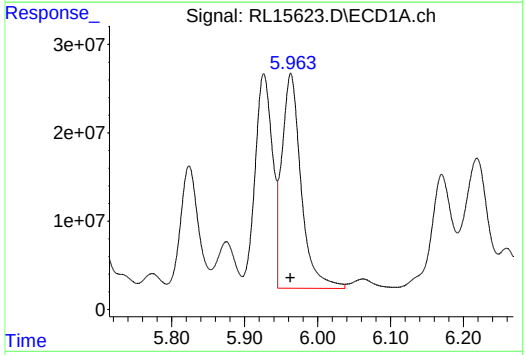
#15 AR1242-D

R.T.: 5.447 min
Delta R.T.: 0.000 min
Response: 395418810
Conc: 89.28 PPB



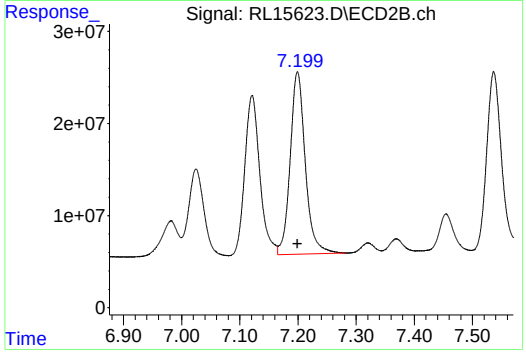
#15 AR1242-D

R.T.: 6.521 min
Delta R.T.: 0.000 min
Response: 294226316
Conc: 113.20 PPB



#16 AR1242-E

R.T.: 5.963 min
Delta R.T.: 0.000 min
Response: 447384728
Conc: 125.70 PPB

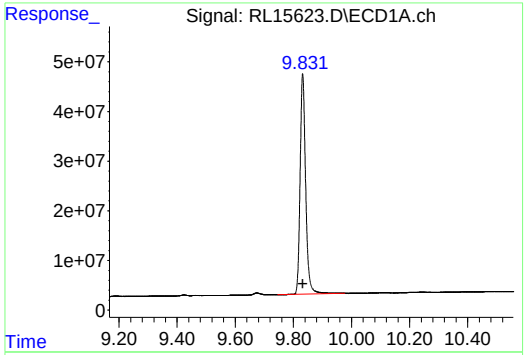


#16 AR1242-E

R.T.: 7.199 min
Delta R.T.: 0.000 min
Response: 357108128
Conc: 114.21 PPB

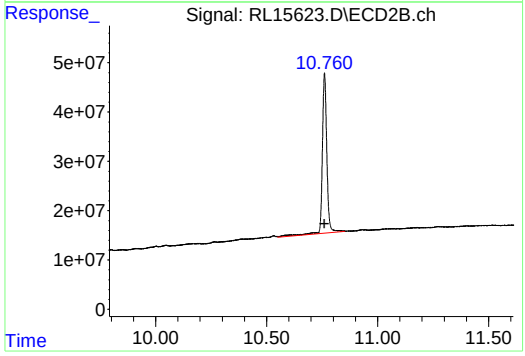
9.3.12

9



#51 Decachlorobiphenyl

R.T.: 9.832 min
Delta R.T.: 0.000 min
Response: 584381873
Conc: 5.15 ppb



#51 Decachlorobiphenyl

R.T.: 10.761 min
Delta R.T.: 0.000 min
Response: 454831226
Conc: 4.86 ppb

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl343\
Data File : RL15624.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 06:45 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:13:51 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:13:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.923	4.336	934.5E6	645.2E6	4.816	4.498
	Spiked Amount 40.000			Recovery	=	12.04%	11.25%
51) S	Decachlor...	9.834	10.765	1880.1E6	1392.7E6	16.576	14.882
	Spiked Amount 40.000			Recovery	=	41.44%	37.20%
	Target Compounds						
36)	AR1268-A	8.886	9.788	3105.3E6	2504.8E6	170.210	159.894
37)	AR1268-B	8.924	9.828	2878.6E6	2163.4E6	153.347	142.394
38)	AR1268-C	9.108	10.047	2301.8E6	1755.9E6	155.596	142.485
39)	AR1268-D	9.424	10.262	976.8E6	738.4E6	162.556	146.045
40)	AR1268-E	9.673	10.534	6917.6E6	5254.8E6	161.627	133.060

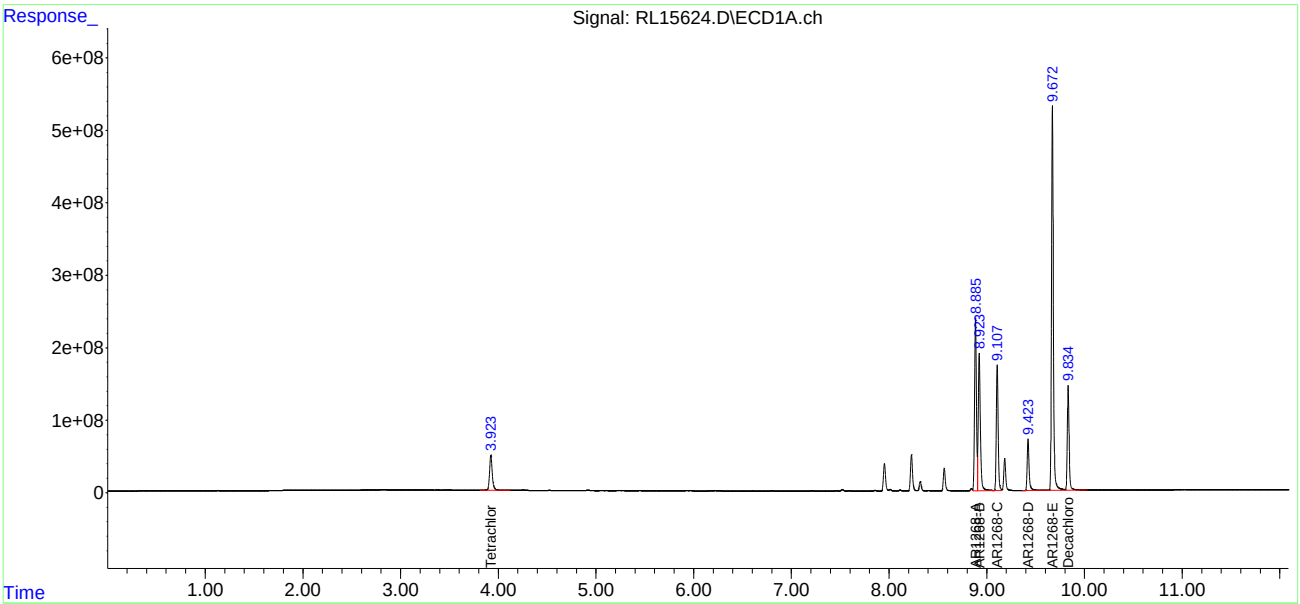
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

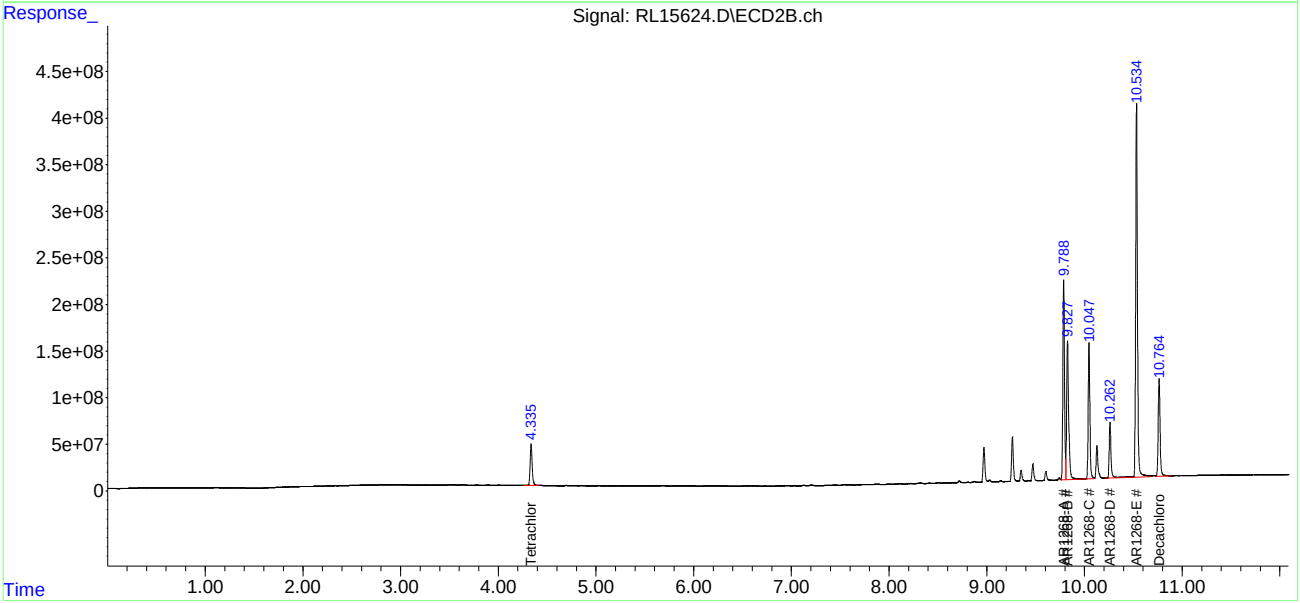
Quantitation Report (QT Reviewed)

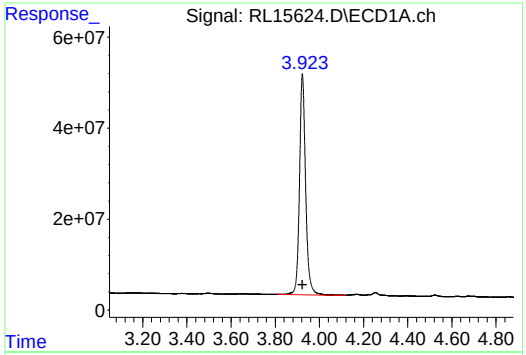
Data Path : C:\msdchem\1\data\grl343\
Data File : RL15624.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 06:45 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:13:51 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:13:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

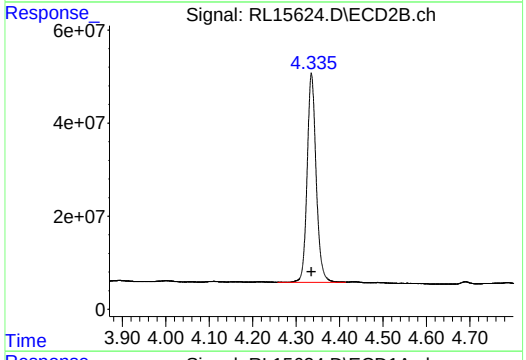






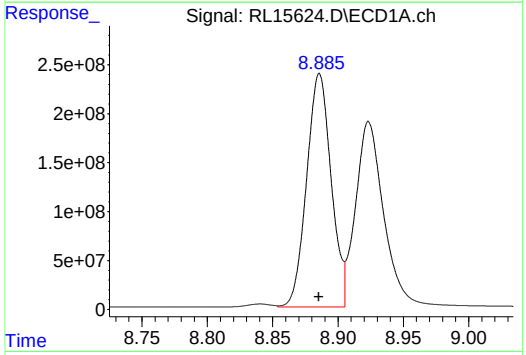
#1 Tetrachloro-m-xylene

R.T.: 3.923 min
Delta R.T.: 0.000 min
Response: 934532101
Conc: 4.82 ppb



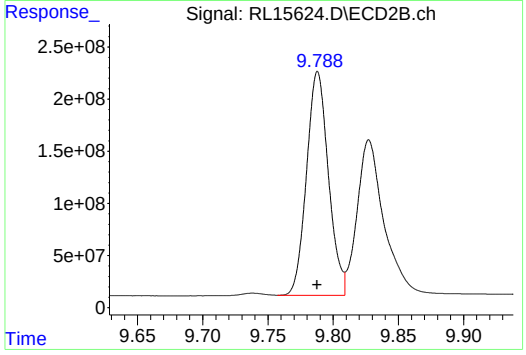
#1 Tetrachloro-m-xylene

R.T.: 4.336 min
Delta R.T.: 0.000 min
Response: 645213250
Conc: 4.50 ppb



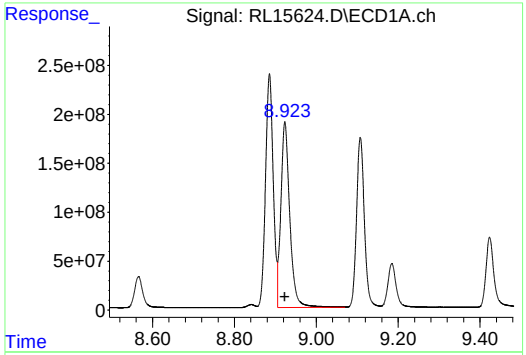
#36 AR1268-A

R.T.: 8.886 min
Delta R.T.: 0.000 min
Response: 3105343773
Conc: 170.21 PPB



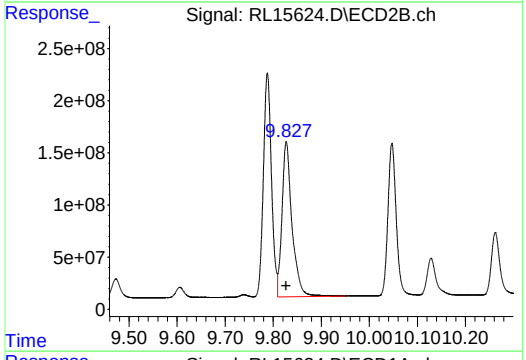
#36 AR1268-A

R.T.: 9.788 min
Delta R.T.: 0.000 min
Response: 2504778260
Conc: 159.89 PPB



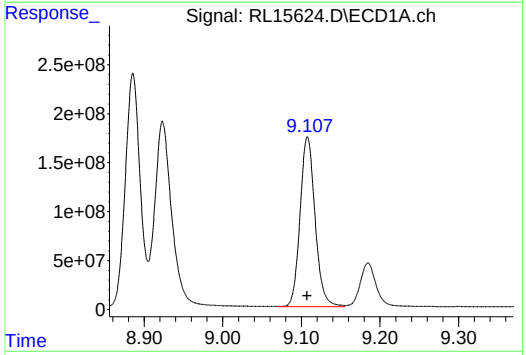
#37 AR1268-B

R.T.: 8.924 min
Delta R.T.: 0.000 min
Response: 2878623935
Conc: 153.35 PPB



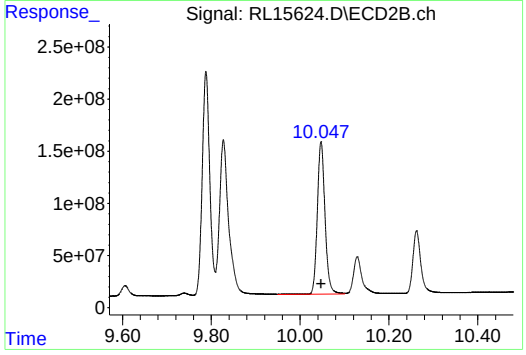
#37 AR1268-B

R.T.: 9.828 min
Delta R.T.: 0.000 min
Response: 2163394968
Conc: 142.39 PPB



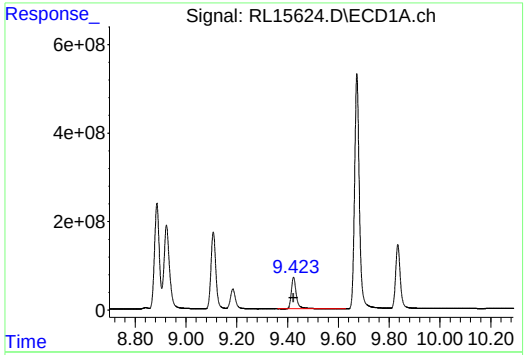
#38 AR1268-C

R.T.: 9.108 min
Delta R.T.: 0.000 min
Response: 2301816520
Conc: 155.60 PPB



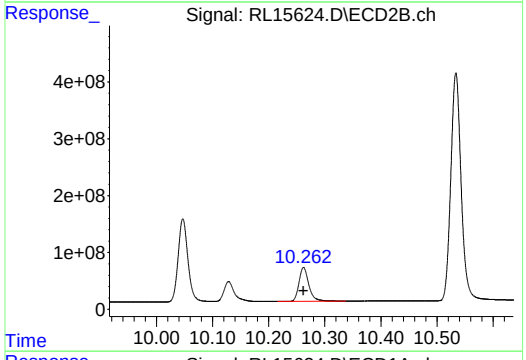
#38 AR1268-C

R.T.: 10.047 min
Delta R.T.: 0.000 min
Response: 1755895709
Conc: 142.49 PPB



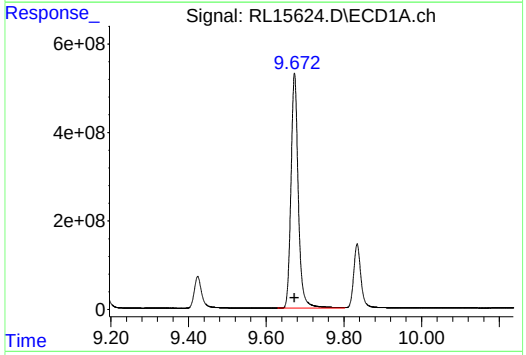
#39 AR1268-D

R.T.: 9.424 min
Delta R.T.: 0.000 min
Response: 976771567
Conc: 162.56 PPB



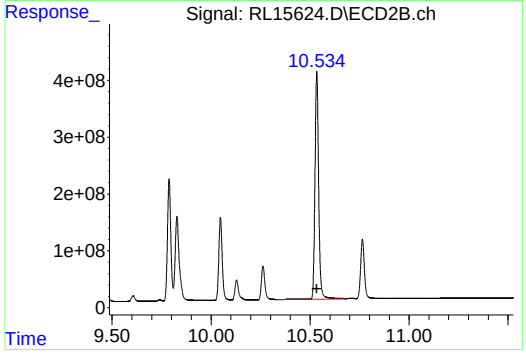
#39 AR1268-D

R.T.: 10.262 min
Delta R.T.: 0.000 min
Response: 738419159
Conc: 146.04 PPB



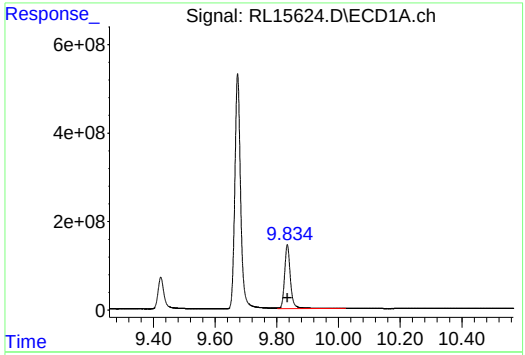
#40 AR1268-E

R.T.: 9.673 min
Delta R.T.: 0.000 min
Response: 6917556210
Conc: 161.63 PPB



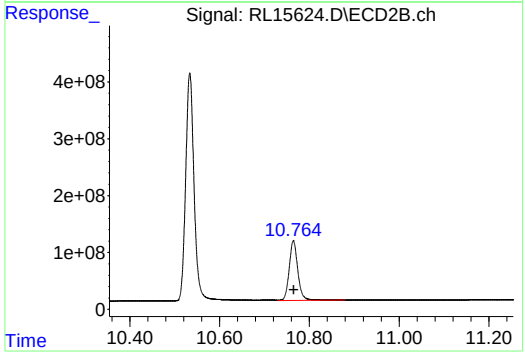
#40 AR1268-E

R.T.: 10.534 min
Delta R.T.: 0.000 min
Response: 5254755466
Conc: 133.06 PPB



#51 Decachlorobiphenyl

R.T.: 9.834 min
Delta R.T.: 0.000 min
Response: 1880125255
Conc: 16.58 ppb



#51 Decachlorobiphenyl

R.T.: 10.765 min
Delta R.T.: 0.000 min
Response: 1392651795
Conc: 14.88 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Rebecca Krug
04/29/24 20:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl343\
Data File : RL15625.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 07:02 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:16:04 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:16:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.923	4.335	766.8E6	526.1E6	3.951	3.668
	Spiked Amount 40.000			Recovery	=	9.88%	9.17%
51) S	Decachlor...	9.833	10.762	547.9E6	416.6E6	4.831	4.452
	Spiked Amount 40.000			Recovery	=	12.08%	11.13%
	Target Compounds						
17)	AR1248-A	4.519	5.181	277.6E6	189.1E6	120.145	110.020
18)	AR1248-B	4.923	5.663	794.6E6	579.8E6	125.026m	114.690m
19)	AR1248-C	5.216	6.108	476.9E6	360.8E6	48.822	114.627 #
20)	AR1248-D	5.538	6.521	419.8E6	478.5E6	62.364	116.545 #
21)	AR1248-E	5.823	6.725	375.7E6	434.7E6	113.005	117.565
22)	AR1248-F	5.963	7.198	742.2E6	646.8E6	64.234	117.829 #
23)	AR1248-G	6.215	7.536	623.7E6	589.5E6	99.125	113.817

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

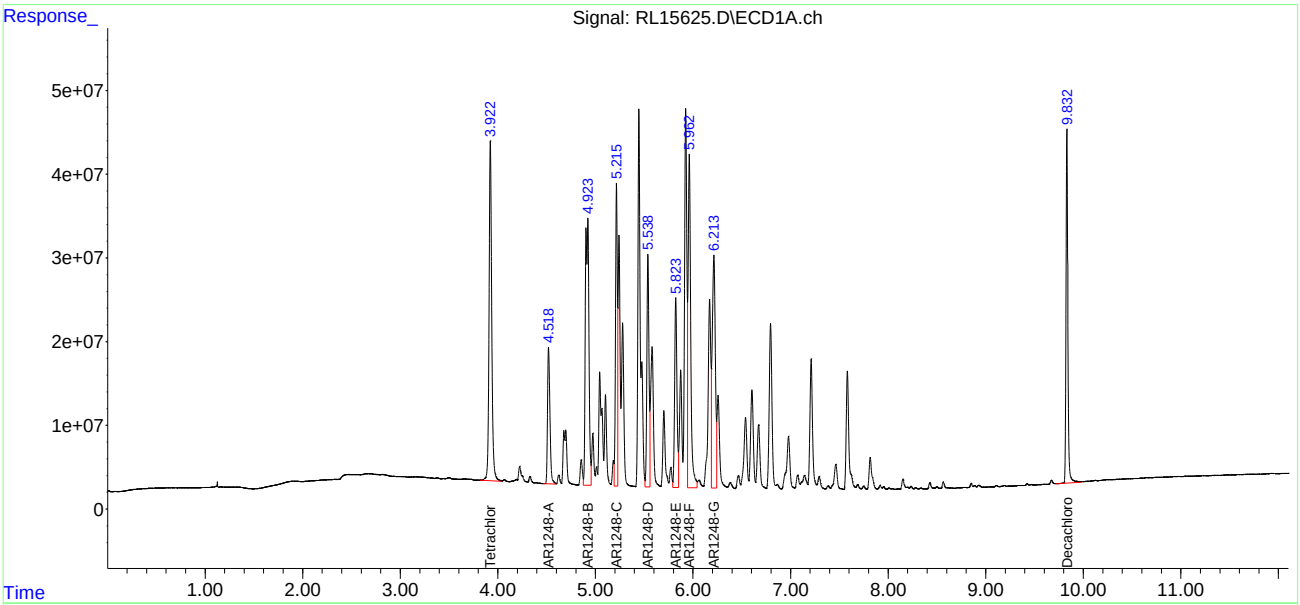
9.3.14
9

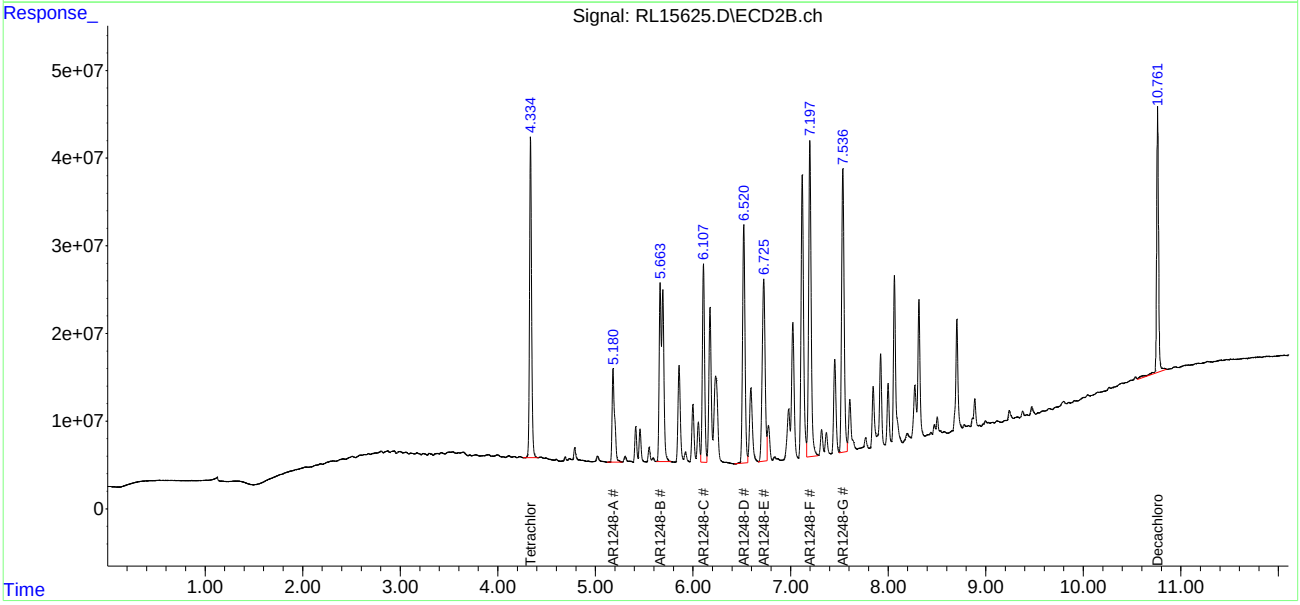
Quantitation Report (QT Reviewed)

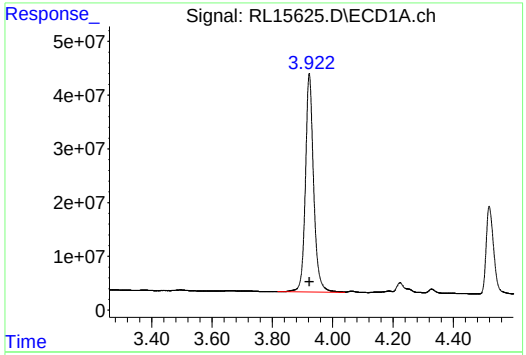
Data Path : C:\msdchem\1\data\grl343\
Data File : RL15625.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 07:02 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:16:04 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:16:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

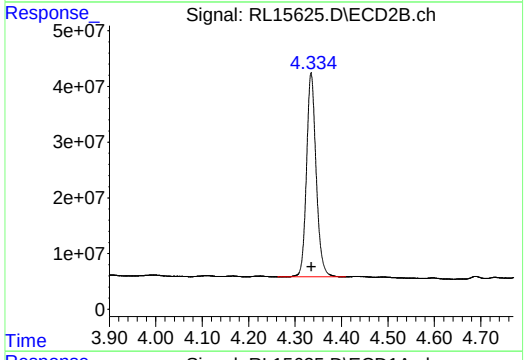






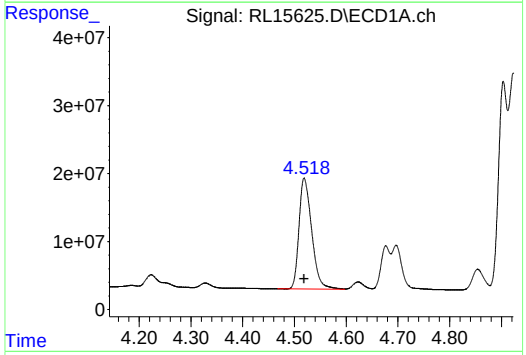
#1 Tetrachloro-m-xylene

R.T.: 3.923 min
Delta R.T.: 0.000 min
Response: 766764495
Conc: 3.95 ppb



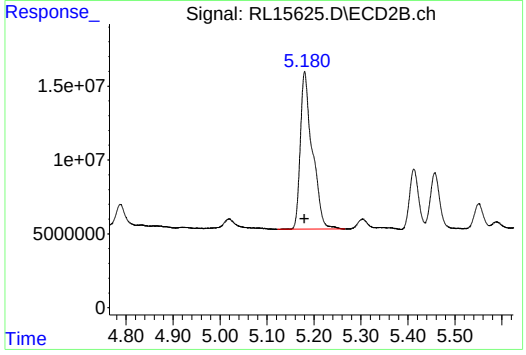
#1 Tetrachloro-m-xylene

R.T.: 4.335 min
Delta R.T.: 0.000 min
Response: 526063477
Conc: 3.67 ppb



#17 AR1248-A

R.T.: 4.519 min
Delta R.T.: 0.000 min
Response: 277561660
Conc: 120.14 PPB

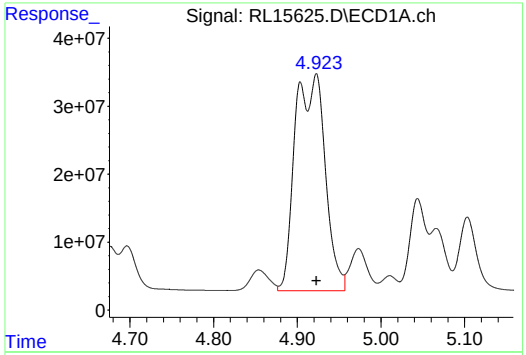


#17 AR1248-A

R.T.: 5.181 min
Delta R.T.: 0.000 min
Response: 189058308
Conc: 110.02 PPB

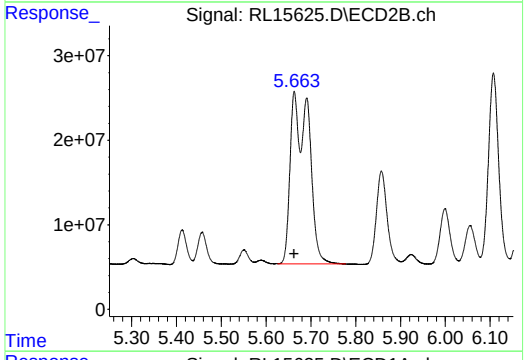
9.3.14

9



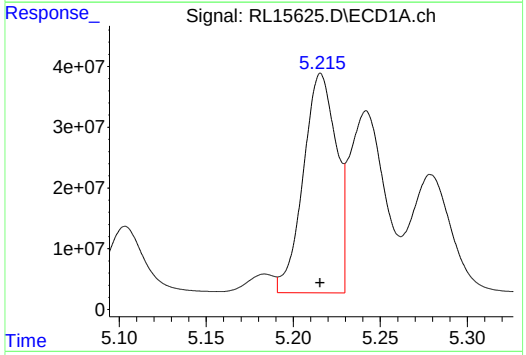
#18 AR1248-B

R.T.: 4.923 min
Delta R.T.: 0.000 min
Response: 794552342
Conc: 125.03 PPB m



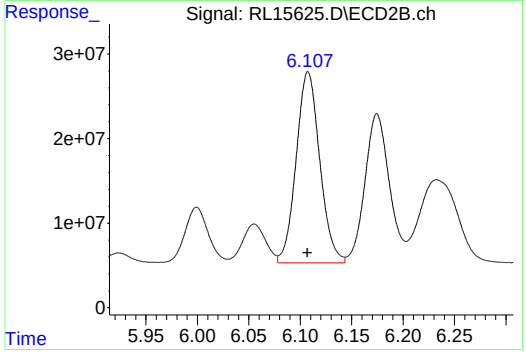
#18 AR1248-B

R.T.: 5.663 min
Delta R.T.: 0.000 min
Response: 579777363
Conc: 114.69 PPB m



#19 AR1248-C

R.T.: 5.216 min
Delta R.T.: 0.000 min
Response: 476886009
Conc: 48.82 PPB

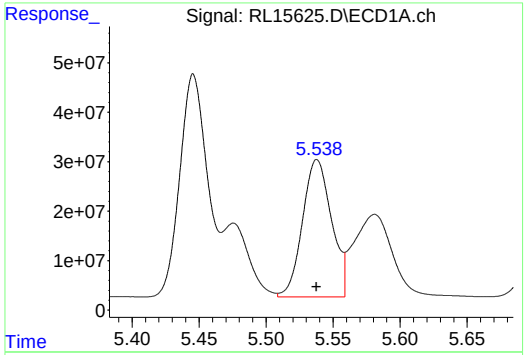


#19 AR1248-C

R.T.: 6.108 min
Delta R.T.: 0.000 min
Response: 360811837
Conc: 114.63 PPB

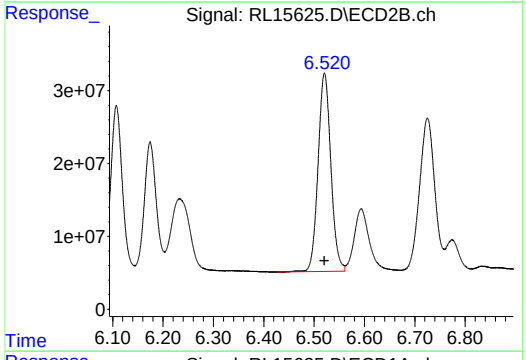
9.3.14

9



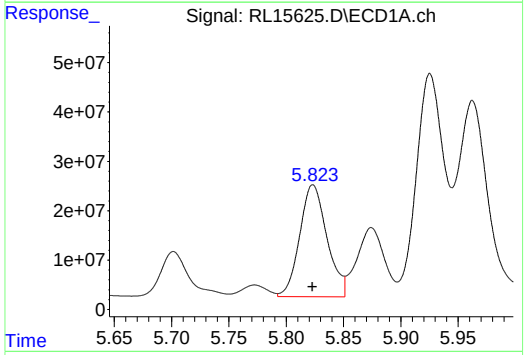
#20 AR1248-D

R.T.: 5.538 min
Delta R.T.: 0.000 min
Response: 419796123
Conc: 62.36 PPB



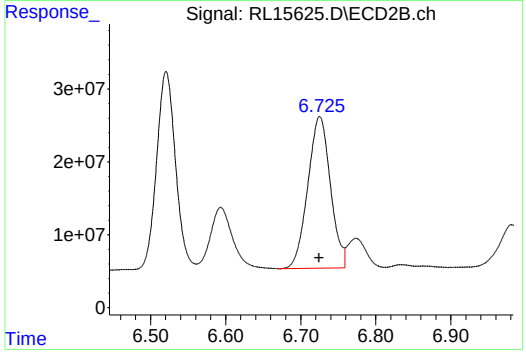
#20 AR1248-D

R.T.: 6.521 min
Delta R.T.: 0.000 min
Response: 478484048
Conc: 116.55 PPB



#21 AR1248-E

R.T.: 5.823 min
Delta R.T.: 0.000 min
Response: 375728187
Conc: 113.01 PPB

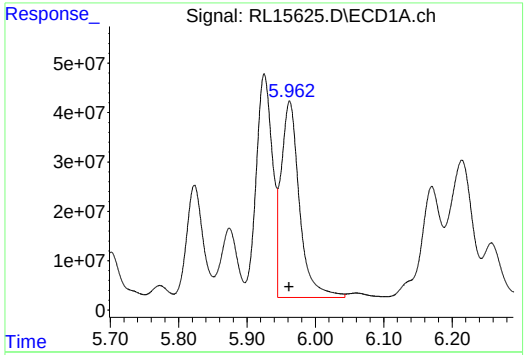


#21 AR1248-E

R.T.: 6.725 min
Delta R.T.: 0.000 min
Response: 434712982
Conc: 117.56 PPB

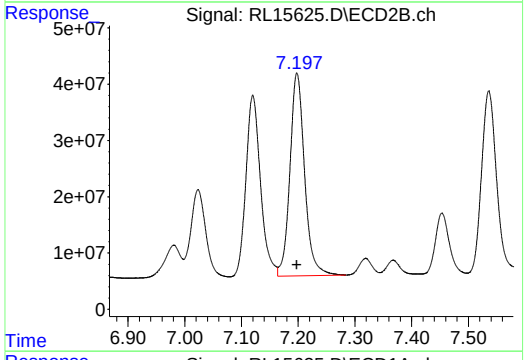
9.3.14

9



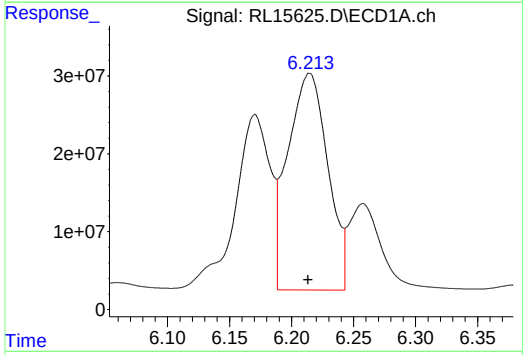
#22 AR1248-F

R.T.: 5.963 min
Delta R.T.: 0.000 min
Response: 742159033
Conc: 64.23 PPB



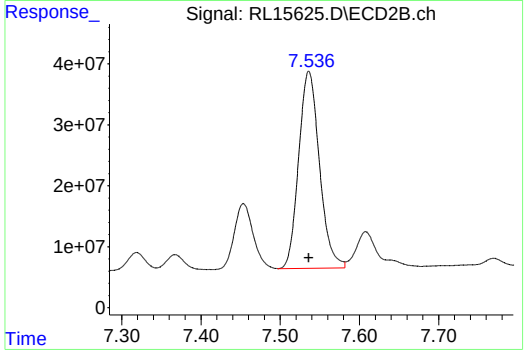
#22 AR1248-F

R.T.: 7.198 min
Delta R.T.: 0.000 min
Response: 646835804
Conc: 117.83 PPB



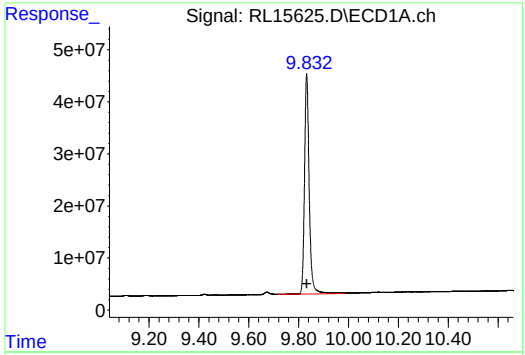
#23 AR1248-G

R.T.: 6.215 min
Delta R.T.: 0.001 min
Response: 623701032
Conc: 99.13 PPB



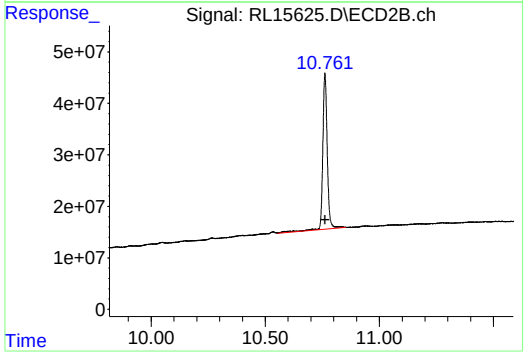
#23 AR1248-G

R.T.: 7.536 min
Delta R.T.: 0.000 min
Response: 589455220
Conc: 113.82 PPB



#51 Decachlorobiphenyl

R.T.: 9.833 min
Delta R.T.: 0.000 min
Response: 547923370
Conc: 4.83 ppb



#51 Decachlorobiphenyl

R.T.: 10.762 min
Delta R.T.: 0.000 min
Response: 416627898
Conc: 4.45 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/15/24 09:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GXX8517\
Data File : xx2512456.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 4:37 pm
Operator : mahalial
Sample : ic8517-1000
Misc : op54039,gxx8517,1.0,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:09:39 2024
Quant Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M
Quant Title :
QLast Update : Tue May 07 13:44:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.375	4.221	791.7E6	2532.3E6	49.324	48.536
	Spiked Amount 40.000			Recovery	=	123.31%	121.34%
51) S	Decachlor...	10.733	12.784	799.1E6	1773.8E6	49.344	50.346
	Spiked Amount 40.000			Recovery	=	123.36%	125.86%
	Target Compounds						
41)	AR1016-A	3.772	4.912	393.2E6	970.2E6	1257.745	1249.659
42)	AR1016-B	4.195	5.493	649.3E6	1973.7E6	1207.502	1171.994
43)	AR1016-C	4.759	6.141	1562.6E6	4205.2E6	1190.903	1149.102m
44)	AR1016-D	4.932	6.338	551.2E6	1719.3E6	1176.749	1162.291m
45)	AR1016-E	5.461	7.013	617.9E6	1304.7E6	1202.702	1172.829
46)	AR1260-A	7.464	9.104	1341.0E6	3118.4E6	1196.216	1173.302
47)	AR1260-B	8.014	9.761	901.4E6	2626.9E6	1197.277	1185.128
48)	AR1260-C	8.360	10.204	860.2E6	2569.5E6	1190.423	1176.488
49)	AR1260-D	8.781	10.541	2222.1E6	6457.7E6	1195.420	1201.294
50)	AR1260-E	9.179	11.063	2345.2E6	5977.5E6	1172.261m	1198.803m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

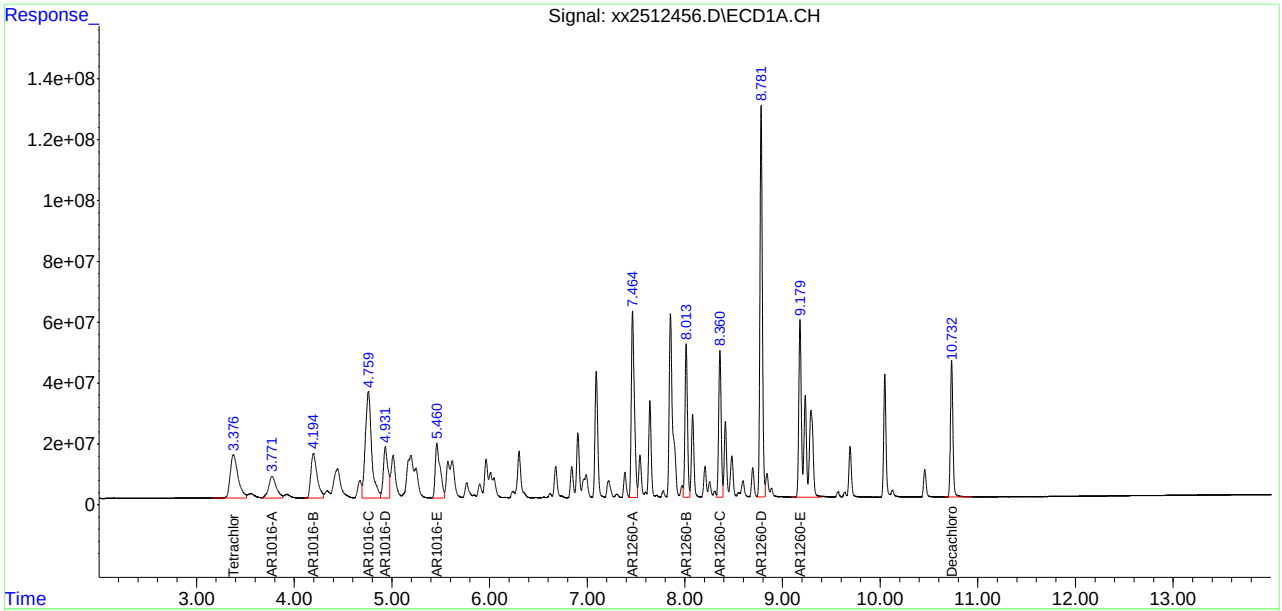
9.3.15
9

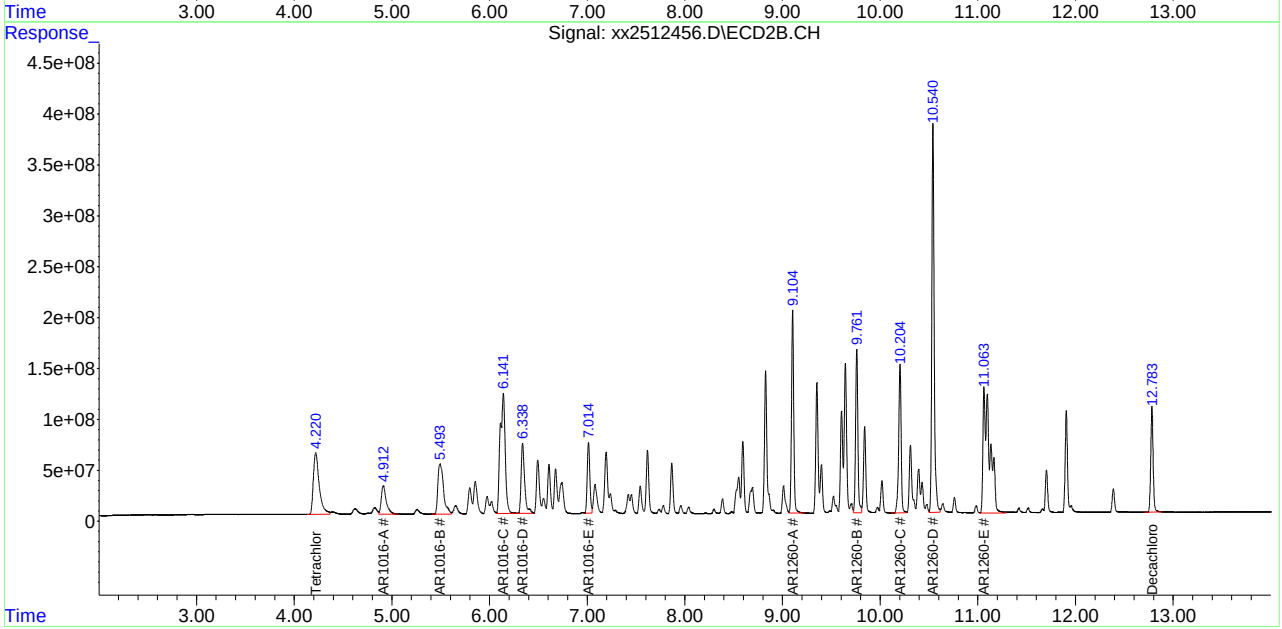
Quantitation Report (QT Reviewed)

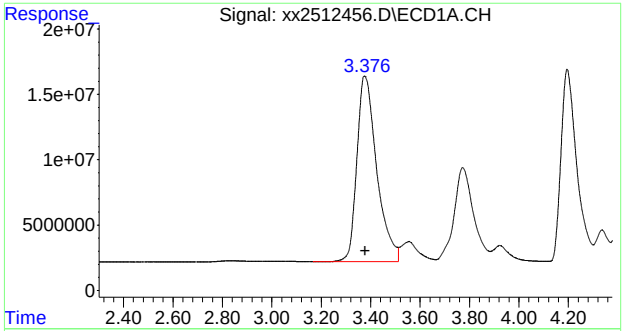
Data Path : C:\msdchem\1\data\GXX8517\
Data File : xx2512456.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 4:37 pm
Operator : mahalial
Sample : ic8517-1000
Misc : op54039,gxx8517,1.0,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:09:39 2024
Quant Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M
Quant Title :
QLast Update : Tue May 07 13:44:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

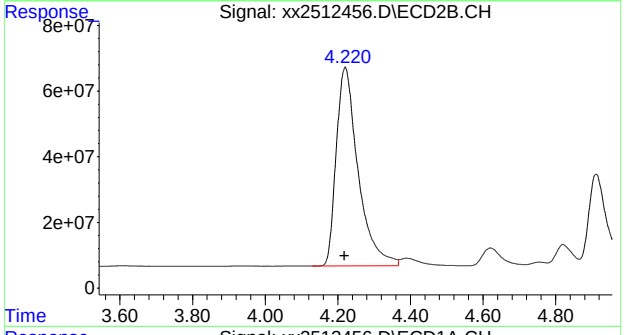






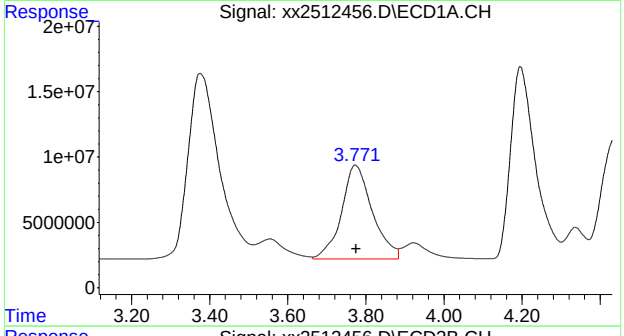
#1 Tetrachloro-m-xylene

R.T.: 3.375 min
Delta R.T.: -0.002 min
Response: 791697257
Conc: 49.32 ppb



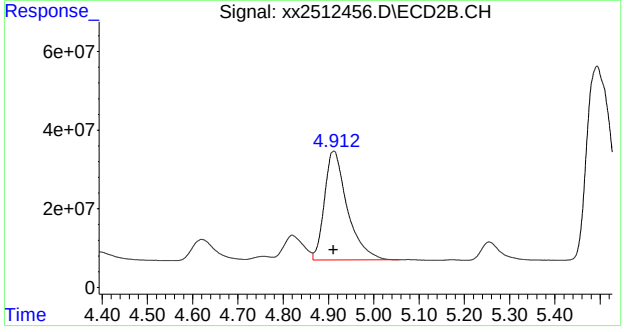
#1 Tetrachloro-m-xylene

R.T.: 4.221 min
Delta R.T.: 0.003 min
Response: 2532347199
Conc: 48.54 ppb



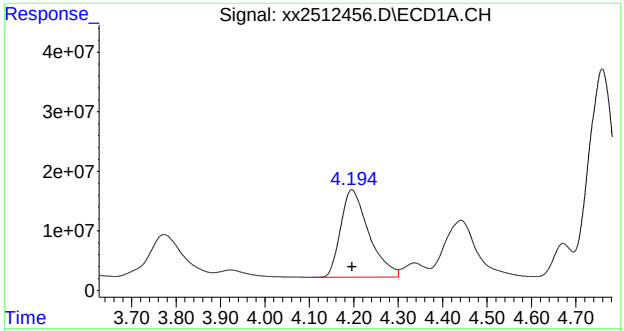
#41 AR1016-A

R.T.: 3.772 min
Delta R.T.: -0.003 min
Response: 393177816
Conc: 1257.74 PPB



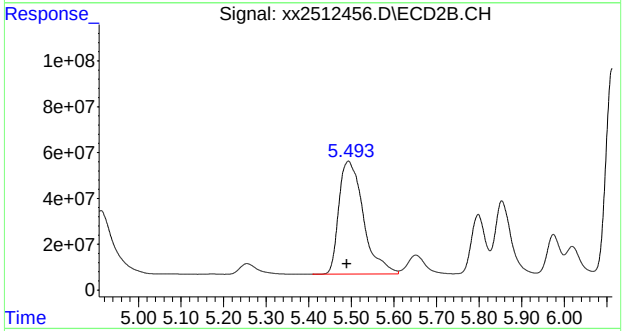
#41 AR1016-A

R.T.: 4.912 min
Delta R.T.: 0.002 min
Response: 970174142
Conc: 1249.66 PPB



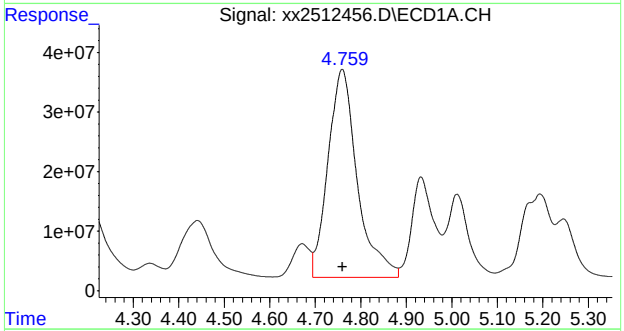
#42 AR1016-B

R.T.: 4.195 min
Delta R.T.: -0.001 min
Response: 649300901
Conc: 1207.50 PPB



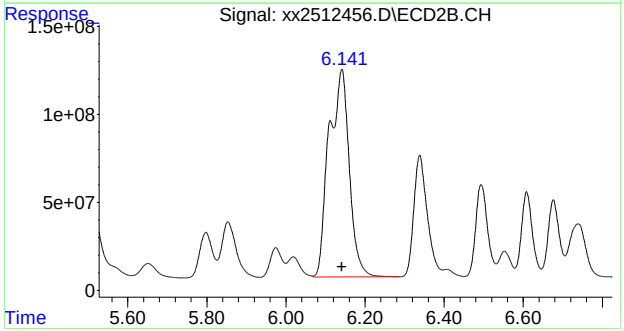
#42 AR1016-B

R.T.: 5.493 min
Delta R.T.: 0.004 min
Response: 1973663599
Conc: 1171.99 PPB



#43 AR1016-C

R.T.: 4.759 min
Delta R.T.: 0.000 min
Response: 1562583904
Conc: 1190.90 PPB

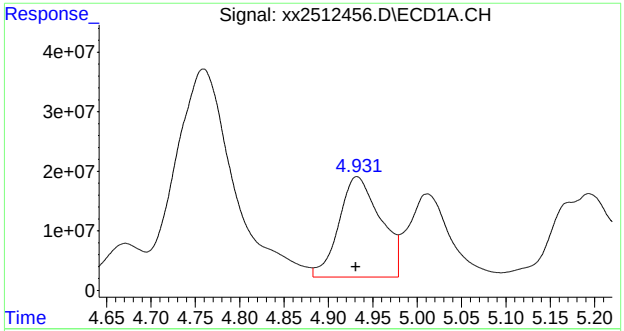


#43 AR1016-C

R.T.: 6.141 min
Delta R.T.: 0.000 min
Response: 4205192421
Conc: 1149.10 PPB m

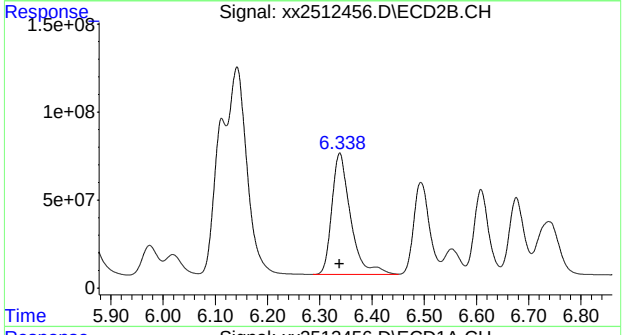
9.3.15

9



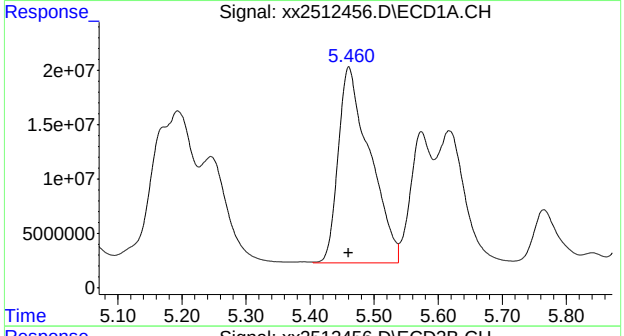
#44 AR1016-D

R.T.: 4.932 min
Delta R.T.: 0.001 min
Response: 551156825
Conc: 1176.75 PPB



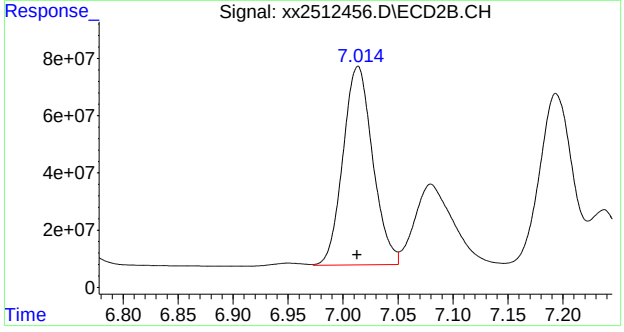
#44 AR1016-D

R.T.: 6.338 min
Delta R.T.: 0.000 min
Response: 1719303048
Conc: 1162.29 PPB m



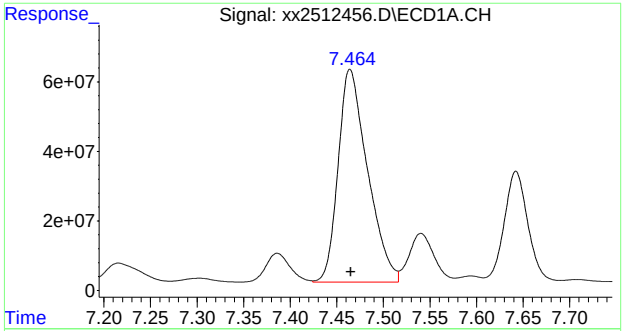
#45 AR1016-E

R.T.: 5.461 min
Delta R.T.: 0.001 min
Response: 617877165
Conc: 1202.70 PPB



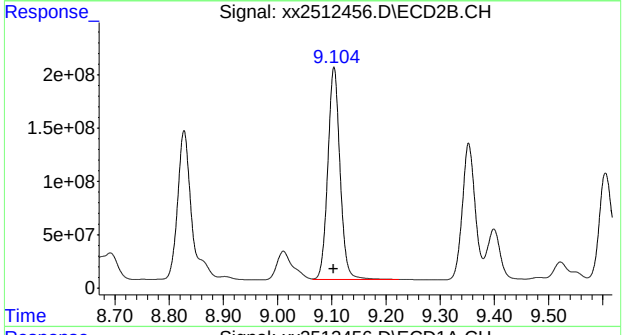
#45 AR1016-E

R.T.: 7.013 min
Delta R.T.: 0.000 min
Response: 1304653721
Conc: 1172.83 PPB



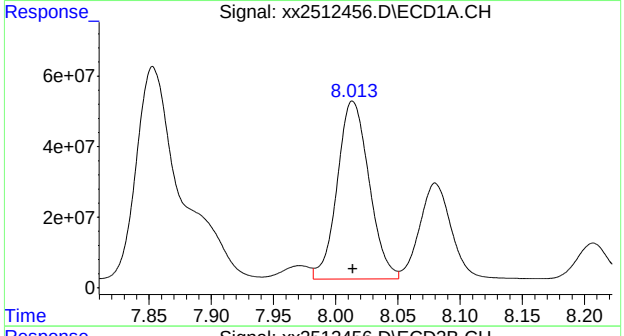
#46 AR1260-A

R.T.: 7.464 min
Delta R.T.: 0.000 min
Response: 1340951917
Conc: 1196.22 PPB



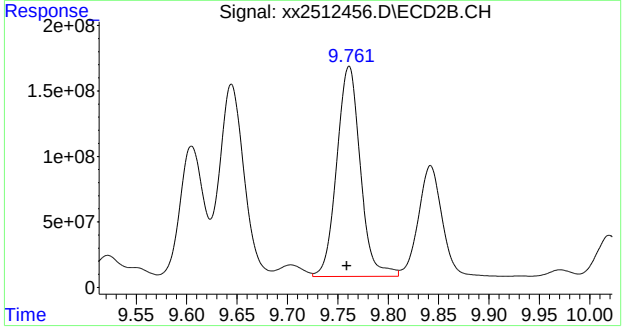
#46 AR1260-A

R.T.: 9.104 min
Delta R.T.: 0.001 min
Response: 3118425222
Conc: 1173.30 PPB



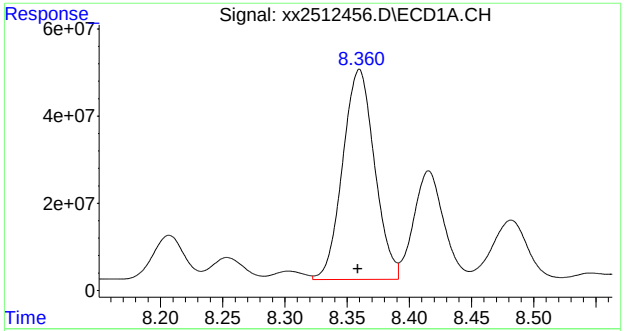
#47 AR1260-B

R.T.: 8.014 min
Delta R.T.: 0.000 min
Response: 901436499
Conc: 1197.28 PPB



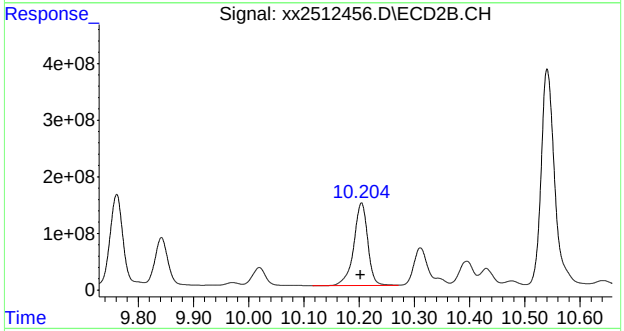
#47 AR1260-B

R.T.: 9.761 min
Delta R.T.: 0.002 min
Response: 2626931467
Conc: 1185.13 PPB



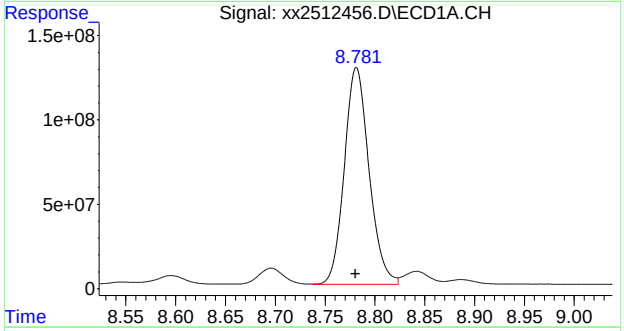
#48 AR1260-C

R.T.: 8.360 min
Delta R.T.: 0.001 min
Response: 860168926
Conc: 1190.42 PPB



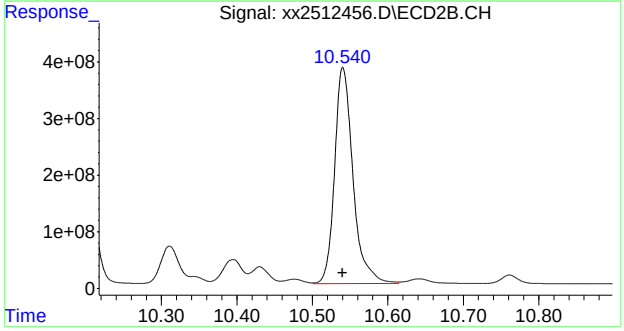
#48 AR1260-C

R.T.: 10.204 min
Delta R.T.: 0.002 min
Response: 2569466832
Conc: 1176.49 PPB



#49 AR1260-D

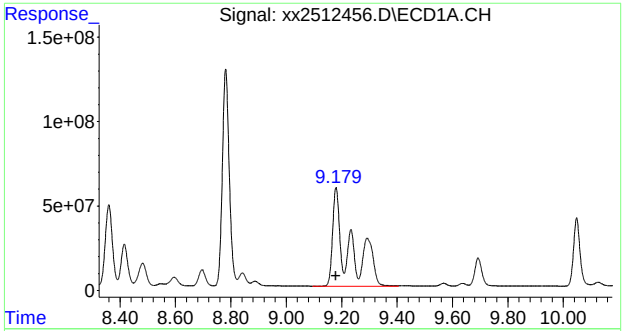
R.T.: 8.781 min
Delta R.T.: 0.000 min
Response: 2222053863
Conc: 1195.42 PPB



#49 AR1260-D

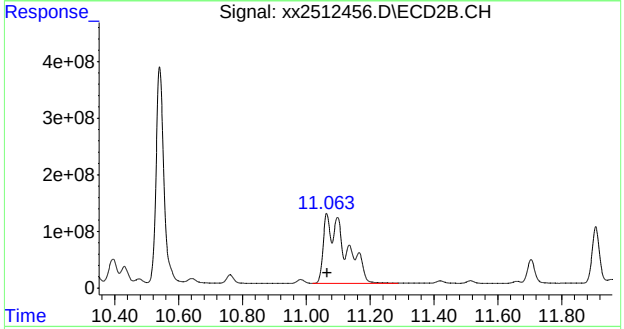
R.T.: 10.541 min
Delta R.T.: 0.001 min
Response: 6457663714
Conc: 1201.29 PPB

9.3.15
9



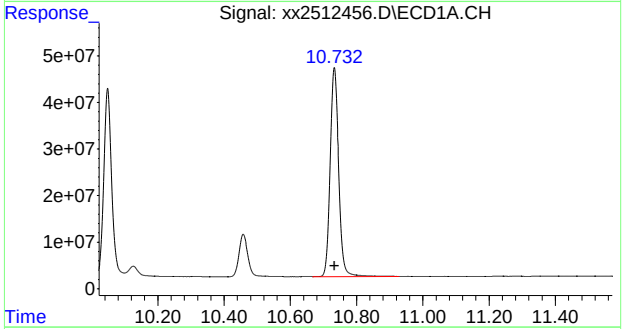
#50 AR1260-E

R.T.: 9.179 min
Delta R.T.: 0.000 min
Response: 2345151248
Conc: 1172.26 PPB m



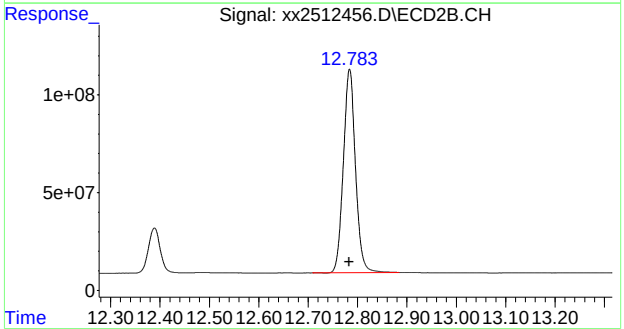
#50 AR1260-E

R.T.: 11.063 min
Delta R.T.: -0.002 min
Response: 5977517572
Conc: 1198.80 PPB m



#51 Decachlorobiphenyl

R.T.: 10.733 min
Delta R.T.: 0.000 min
Response: 799141952
Conc: 49.34 ppb



#51 Decachlorobiphenyl

R.T.: 12.784 min
Delta R.T.: 0.001 min
Response: 1773824855
Conc: 50.35 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/15/24 09:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GXX8517\
Data File : xx2512462.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 6:23 pm
Operator : mahalial
Sample : ic8517-1000 (ar1221)
Misc : op54039,gxx8517,1.0,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:40:04 2024
Quant Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M
Quant Title :
QLast Update : Tue May 07 13:44:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.378	4.219	789.3E6	2390.6E6	49.178	45.819
	Spiked Amount 40.000			Recovery	=	122.94%	114.55%
51) S	Decachlor...	10.733	12.784	764.7E6	1697.3E6	47.219	48.176
	Spiked Amount 40.000			Recovery	=	118.05%	120.44%
	Target Compounds						
2)	AR1221-A	2.841	3.607	148.2E6	317.9E6	1251.998	1119.706
3)	AR1221-B	3.563	4.623	236.8E6	654.1E6	1180.032	1144.201
4)	AR1221-C	3.772	4.910	656.4E6	1483.5E6	1152.333	1108.505
5)	AR1221-D	4.199	5.481f	105.1E6	474.5E6	1205.092m	1107.499m
6)	AR1221-E	4.762	6.142	135.5E6	355.9E6	1213.478	1204.382

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

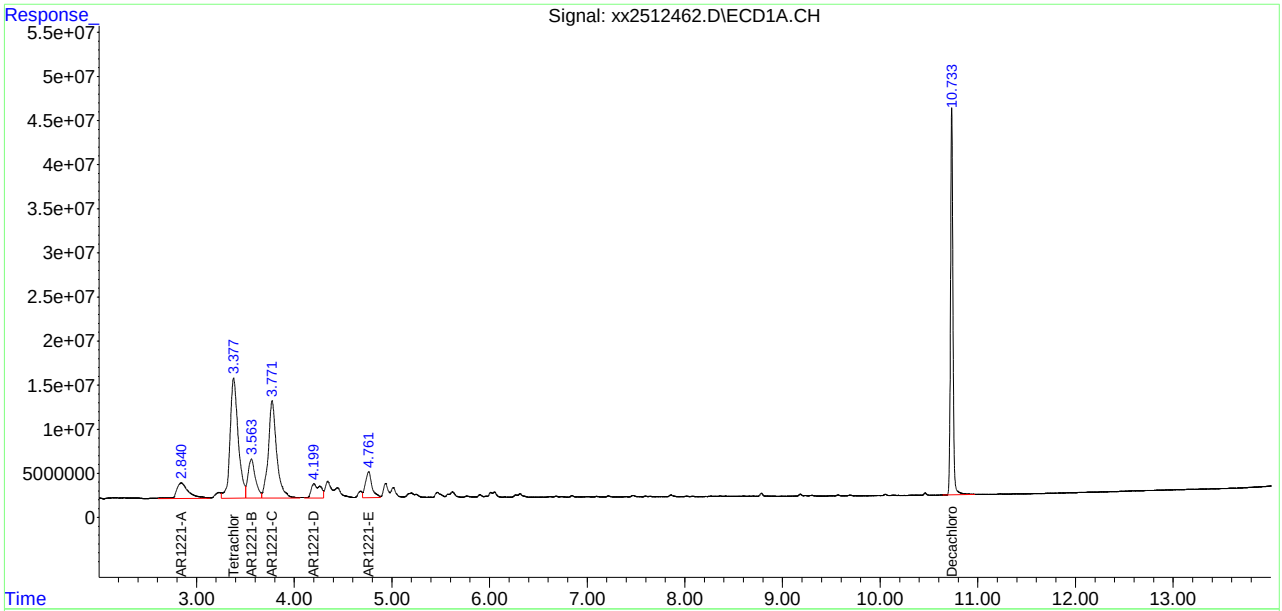
9.3.16
9

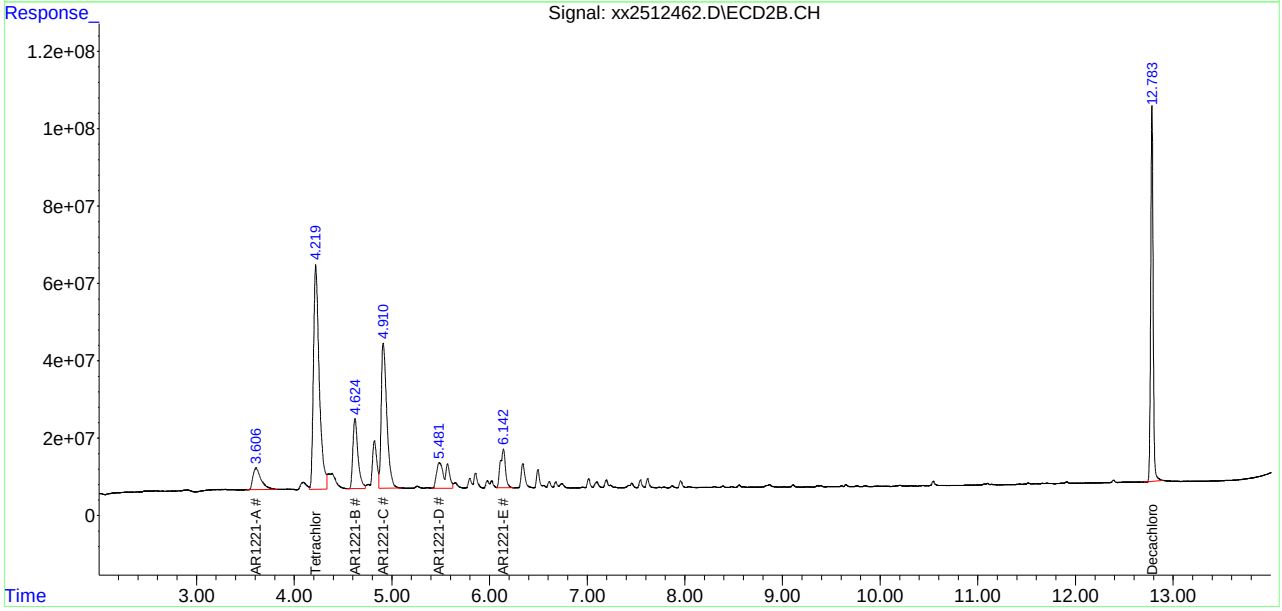
Quantitation Report (QT Reviewed)

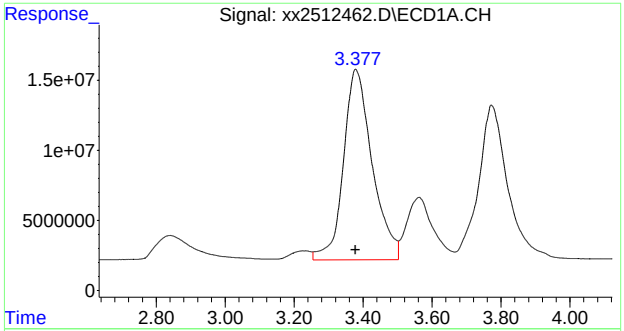
Data Path : C:\msdchem\1\data\GXX8517\
Data File : xx2512462.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 6:23 pm
Operator : mahalial
Sample : ic8517-1000 (ar1221)
Misc : op54039,gxx8517,1.0,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 07 15:40:04 2024
Quant Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M
Quant Title :
QLast Update : Tue May 07 13:44:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

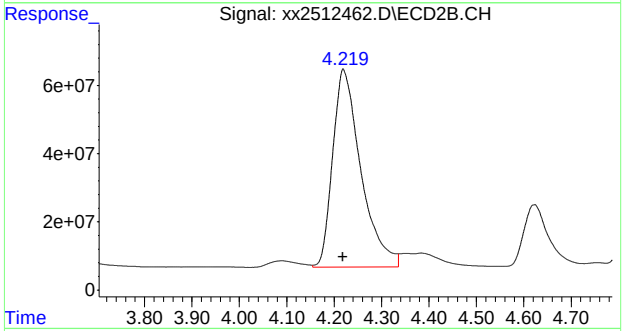






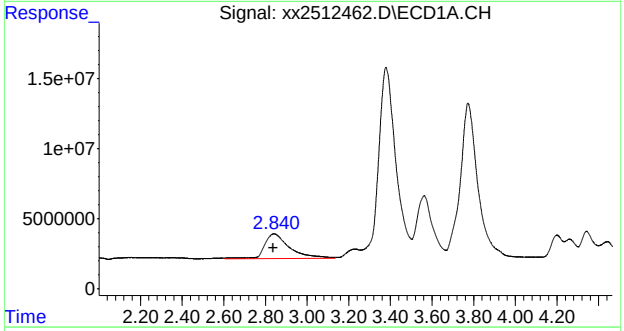
#1 Tetrachloro-m-xylene

R.T.: 3.378 min
Delta R.T.: 0.000 min
Response: 789348161
Conc: 49.18 ppb



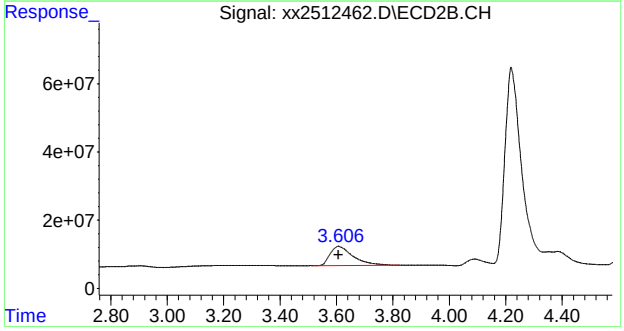
#1 Tetrachloro-m-xylene

R.T.: 4.219 min
Delta R.T.: 0.001 min
Response: 2390563381
Conc: 45.82 ppb



#2 AR1221-A

R.T.: 2.841 min
Delta R.T.: 0.003 min
Response: 148245016
Conc: 1252.00

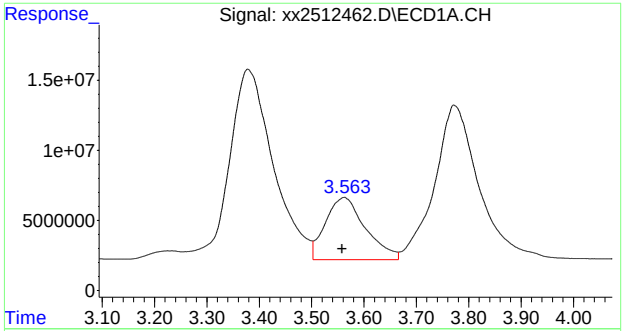


#2 AR1221-A

R.T.: 3.607 min
Delta R.T.: 0.000 min
Response: 317881960
Conc: 1119.71

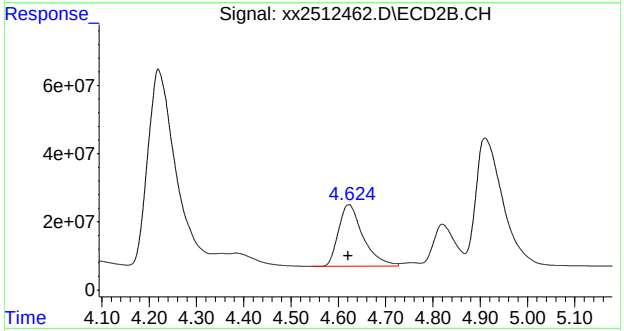
9.3.16

9



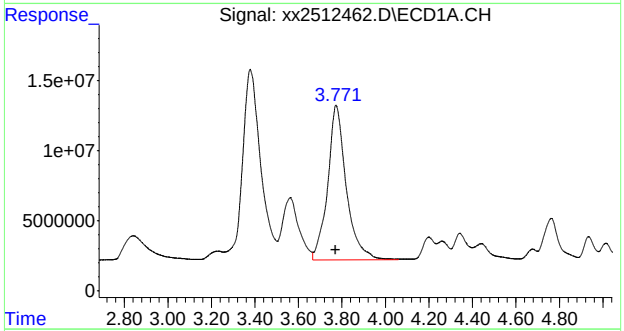
#3 AR1221-B

R.T.: 3.563 min
Delta R.T.: 0.004 min
Response: 236797811
Conc: 1180.03 PPB



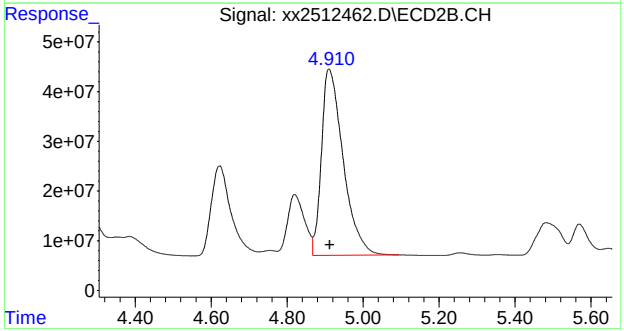
#3 AR1221-B

R.T.: 4.623 min
Delta R.T.: 0.003 min
Response: 654122997
Conc: 1144.20 PPB



#4 AR1221-C

R.T.: 3.772 min
Delta R.T.: 0.001 min
Response: 656438864
Conc: 1152.33 PPB

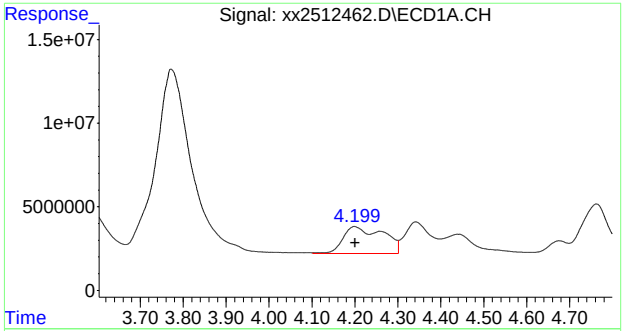


#4 AR1221-C

R.T.: 4.910 min
Delta R.T.: -0.002 min
Response: 1483505046
Conc: 1108.51 PPB

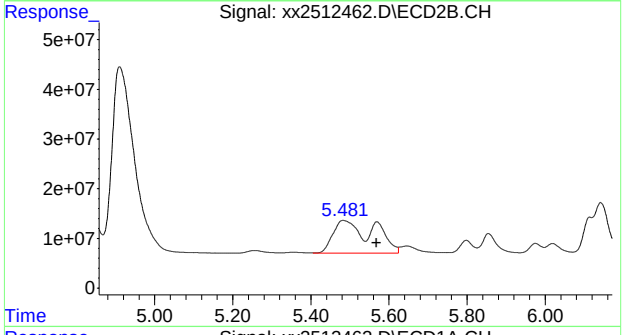
9.3.16

9



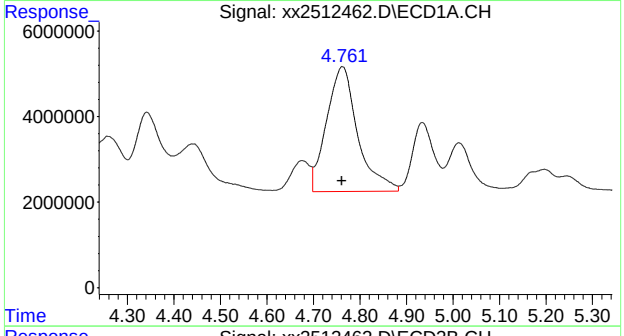
#5 AR1221-D

R.T.: 4.199 min
Delta R.T.: -0.002 min
Response: 105139762
Conc: 1205.09 PPB m



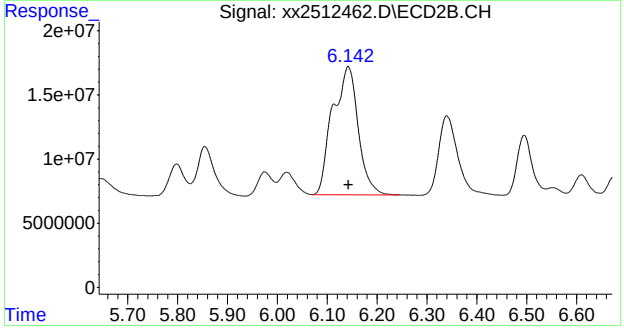
#5 AR1221-D

R.T.: 5.481 min
Delta R.T.: -0.087 min
Response: 474541594
Conc: 1107.50 PPB m



#6 AR1221-E

R.T.: 4.762 min
Delta R.T.: 0.002 min
Response: 135477350
Conc: 1213.48 PPB

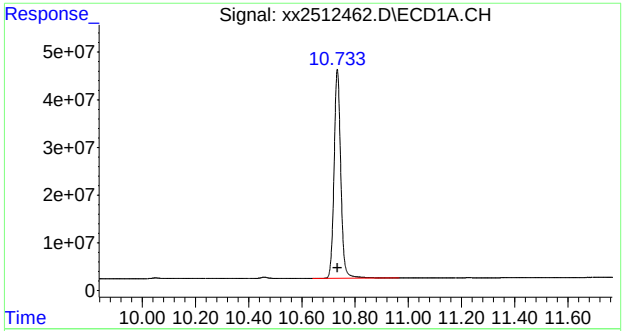


#6 AR1221-E

R.T.: 6.142 min
Delta R.T.: 0.000 min
Response: 355893384
Conc: 1204.38 PPB

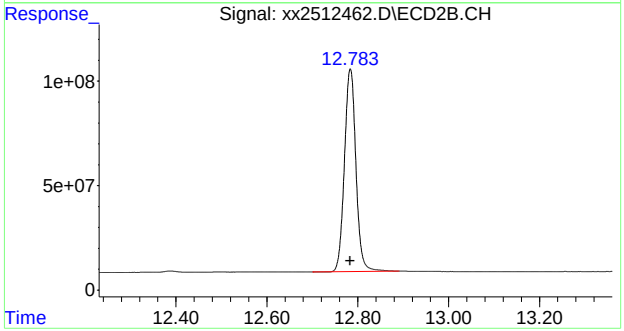
9.3.16

9



#51 Decachlorobiphenyl

R.T.: 10.733 min
Delta R.T.: 0.000 min
Response: 764725217
Conc: 47.22 ppb



#51 Decachlorobiphenyl

R.T.: 12.784 min
Delta R.T.: 0.000 min
Response: 1697347105
Conc: 48.18 ppb

9.3.16

9

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/15/24 09:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GXX8517\
Data File : xx2512463.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 6:41 pm
Operator : mahalial
Sample : ic8517-1000 (ar1254)
Misc : op54039,gxx8517,1.0,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 10:18:08 2024
Quant Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M
Quant Title :
QLast Update : Tue May 07 13:44:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.378	4.220	725.9E6	2300.5E6	45.223	44.093
	Spiked Amount 40.000			Recovery	=	113.06%	110.23%
51) S	Decachlor...	10.732	12.784	729.3E6	1589.6E6	45.030	45.119
	Spiked Amount 40.000			Recovery	=	112.58%	112.80%
	Target Compounds						
24)	AR1254-A	5.963	7.617	637.3E6	1879.4E6	1174.406m	1121.149
25)	AR1254-B	6.301	7.867	1146.2E6	2119.5E6	1134.438m	1117.999
26)	AR1254-C	6.678	8.385	634.0E6	1739.0E6	1131.456	1111.619
27)	AR1254-D	6.841	8.552	1214.8E6	3619.8E6	1122.503m	1109.490m
28)	AR1254-E	7.213	8.862	845.5E6	2352.4E6	1077.893	1057.836
29)	AR1254-F	7.467	9.354	794.5E6	2618.1E6	1139.936	1063.504m
30)	AR1254-G	7.854	9.646	1155.1E6	2471.5E6	1104.419	1064.631

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

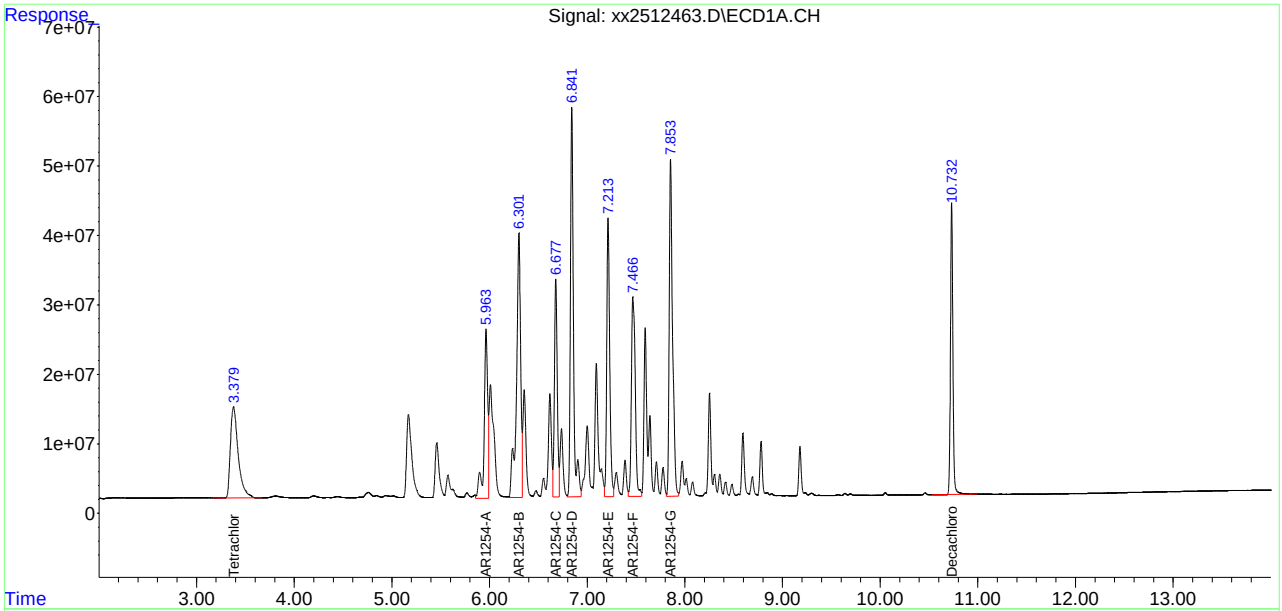
9.3.17
9

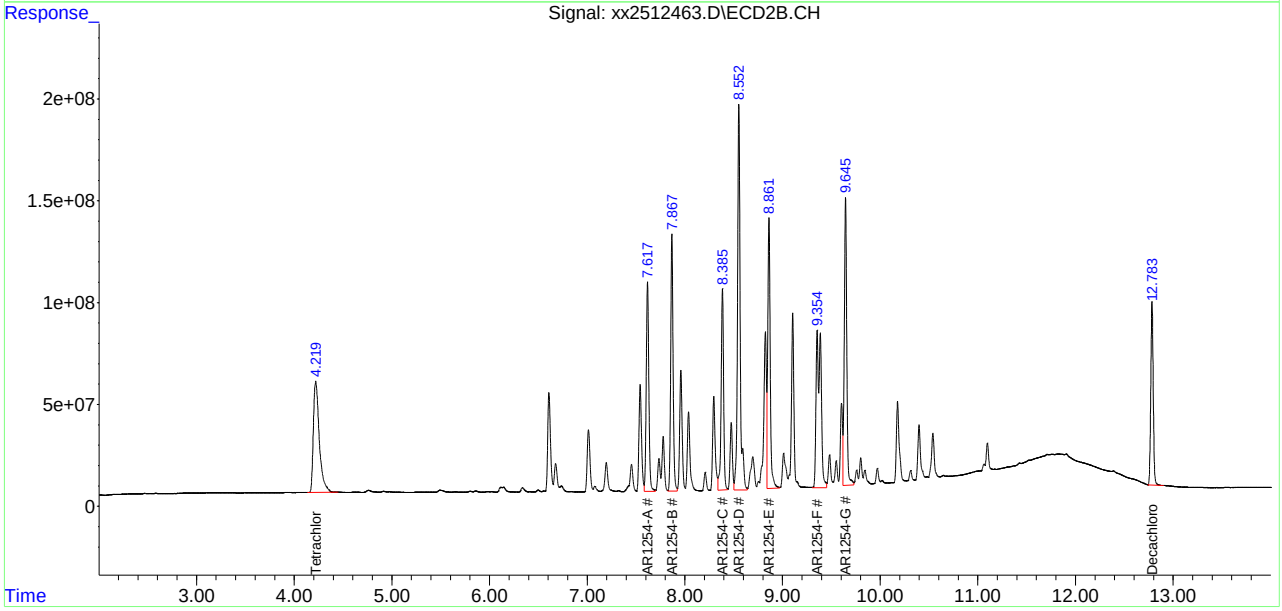
Quantitation Report (QT Reviewed)

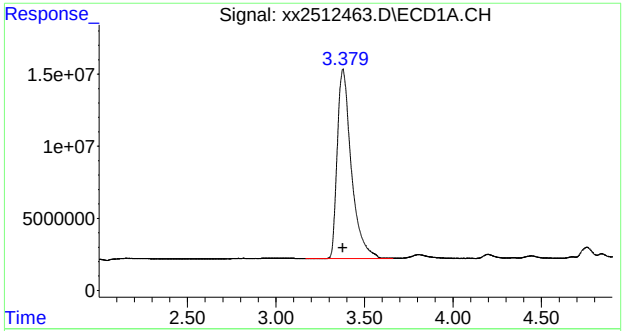
Data Path : C:\msdchem\1\data\GXX8517\
Data File : xx2512463.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 6:41 pm
Operator : mahalial
Sample : ic8517-1000 (ar1254)
Misc : op54039,gxx8517,1.0,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 10:18:08 2024
Quant Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M
Quant Title :
QLast Update : Tue May 07 13:44:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

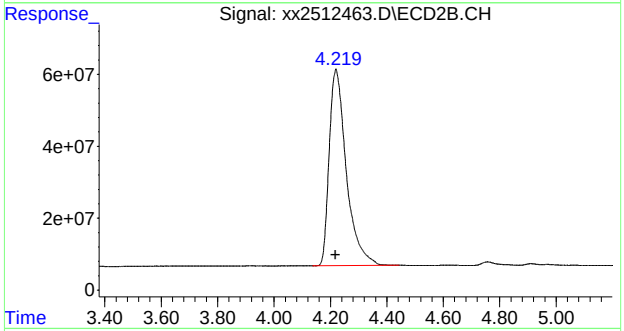






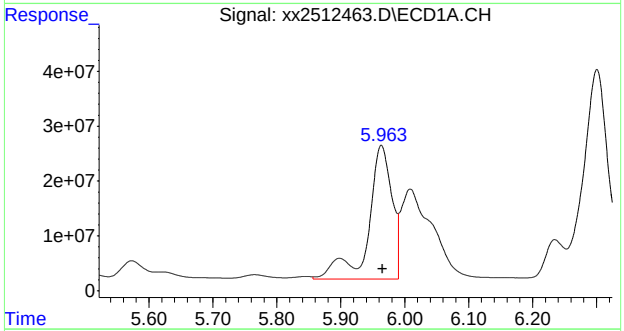
#1 Tetrachloro-m-xylene

R.T.: 3.378 min
Delta R.T.: 0.000 min
Response: 725872514
Conc: 45.22 ppb



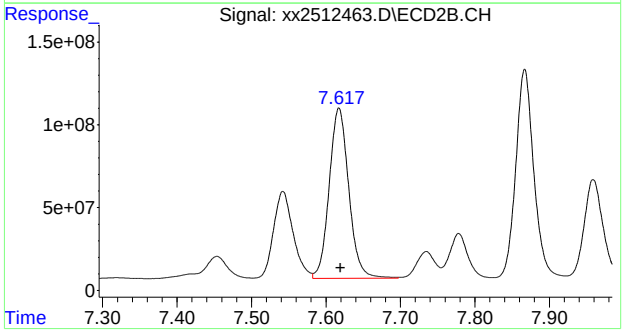
#1 Tetrachloro-m-xylene

R.T.: 4.220 min
Delta R.T.: 0.002 min
Response: 2300544706
Conc: 44.09 ppb



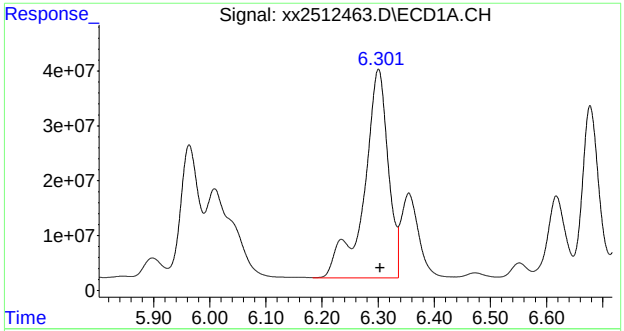
#24 AR1254-A

R.T.: 5.963 min
Delta R.T.: -0.002 min
Response: 637261836
Conc: 1174.41 PPB m



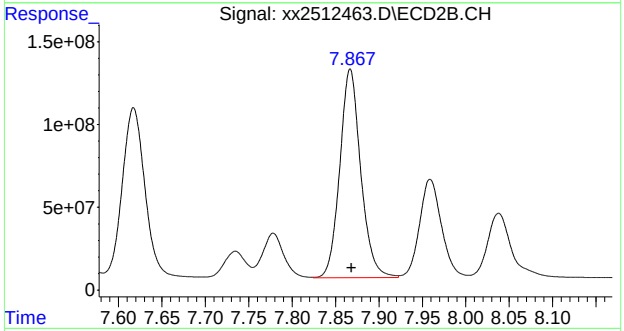
#24 AR1254-A

R.T.: 7.617 min
Delta R.T.: -0.002 min
Response: 1879441210
Conc: 1121.15 PPB



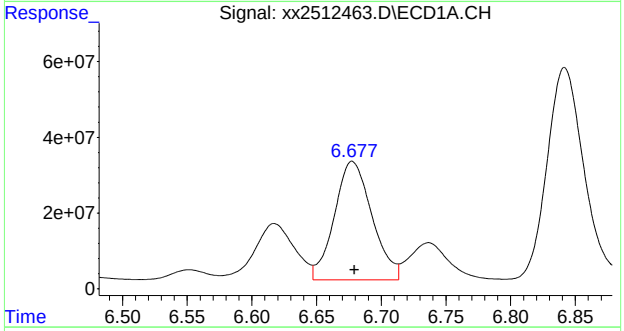
#25 AR1254-B

R.T.: 6.301 min
Delta R.T.: -0.003 min
Response: 1146229777
Conc: 1134.44 PPB m



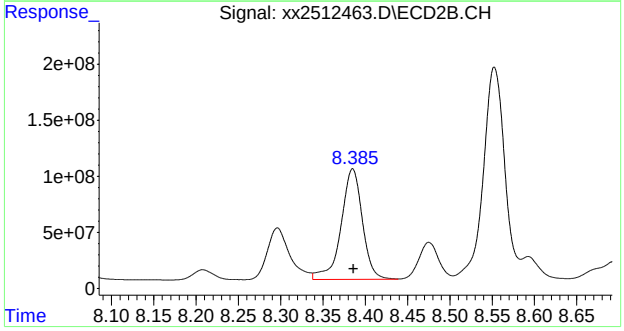
#25 AR1254-B

R.T.: 7.867 min
Delta R.T.: -0.001 min
Response: 2119545644
Conc: 1118.00 PPB



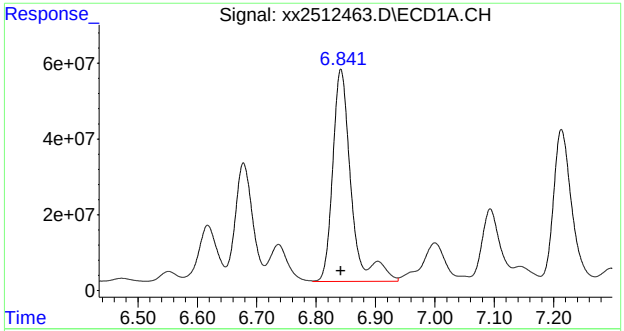
#26 AR1254-C

R.T.: 6.678 min
Delta R.T.: -0.001 min
Response: 634045250
Conc: 1131.46 PPB



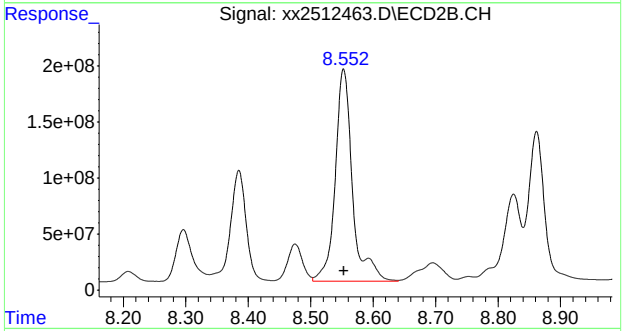
#26 AR1254-C

R.T.: 8.385 min
Delta R.T.: 0.000 min
Response: 1738983876
Conc: 1111.62 PPB



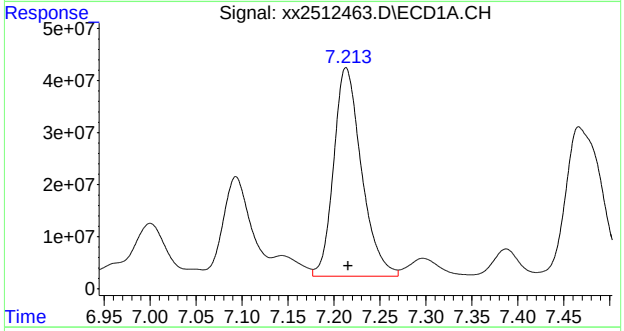
#27 AR1254-D

R.T.: 6.841 min
Delta R.T.: 0.000 min
Response: 1214797164
Conc: 1122.50 PPB m



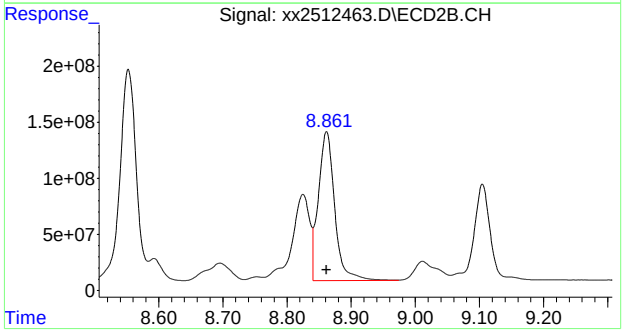
#27 AR1254-D

R.T.: 8.552 min
Delta R.T.: 0.000 min
Response: 3619759225
Conc: 1109.49 PPB m



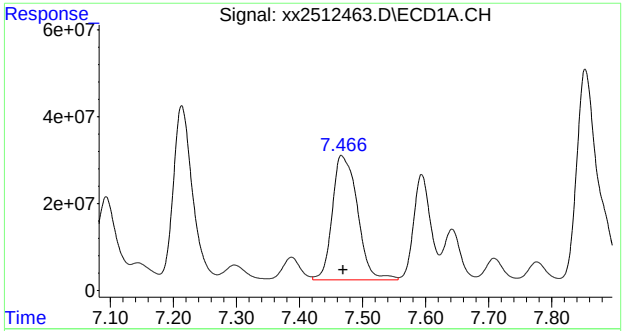
#28 AR1254-E

R.T.: 7.213 min
Delta R.T.: -0.002 min
Response: 845491535
Conc: 1077.89 PPB



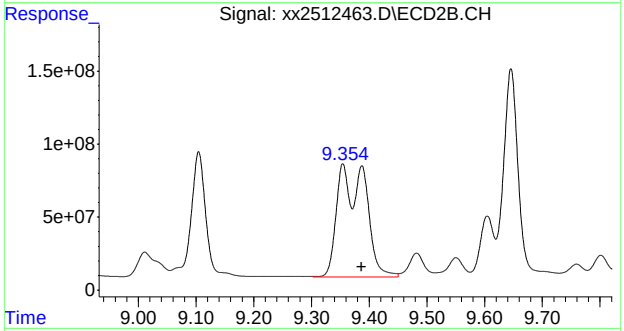
#28 AR1254-E

R.T.: 8.862 min
Delta R.T.: 0.000 min
Response: 2352382670
Conc: 1057.84 PPB



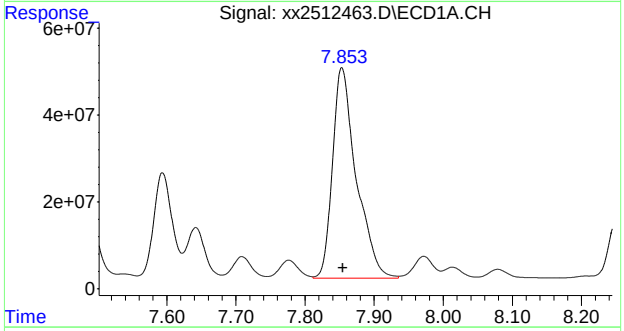
#29 AR1254-F

R.T.: 7.467 min
Delta R.T.: -0.002 min
Response: 794476895
Conc: 1139.94 PPB



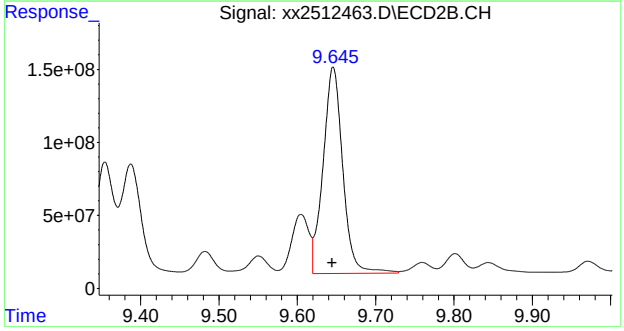
#29 AR1254-F

R.T.: 9.354 min
Delta R.T.: -0.033 min
Response: 2618138555
Conc: 1063.50 PPB m



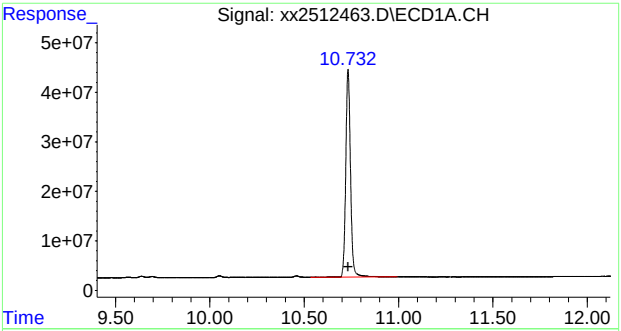
#30 AR1254-G

R.T.: 7.854 min
Delta R.T.: 0.000 min
Response: 1155065585
Conc: 1104.42 PPB



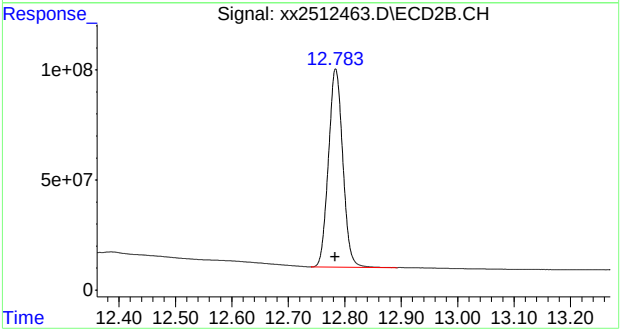
#30 AR1254-G

R.T.: 9.646 min
Delta R.T.: 0.002 min
Response: 2471499724
Conc: 1064.63 PPB



#51 Decachlorobiphenyl

R.T.: 10.732 min
Delta R.T.: 0.000 min
Response: 729272960
Conc: 45.03 ppb



#51 Decachlorobiphenyl

R.T.: 12.784 min
Delta R.T.: 0.001 min
Response: 1589637941
Conc: 45.12 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/15/24 09:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GXX8517\
Data File : xx2512465.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 7:16 pm
Operator : mahalial
Sample : ic8517-1000 (ar1262)
Misc : op54039,gxx8517,1.0,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 17:49:16 2024
Quant Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M
Quant Title :
QLast Update : Thu May 09 17:38:07 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.381	4.221	706.4E6	2250.8E6	37.165	36.588
	Spiked Amount 40.000			Recovery	=	92.91%	91.47%
51) S	Decachlor...	10.732	12.782	717.9E6	1607.6E6	38.906	39.525
	Spiked Amount 40.000			Recovery	=	97.27%	98.81%
	Target Compounds						
31)	AR1262-A	7.464	9.105	965.0E6	2452.7E6	1000.000	1000.000
32)	AR1262-B	8.015	9.760	1317.2E6	3827.6E6	1000.000	1000.000
33)	AR1262-C	8.358	10.204	1111.6E6	3114.3E6	1000.000	1000.000
34)	AR1262-D	8.781	10.540	2554.0E6	7271.7E6	1000.000	1000.000
35)	AR1262-E	9.232	11.066	3083.6E6	7997.3E6	1002.943m	1000.070m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

9.3.18
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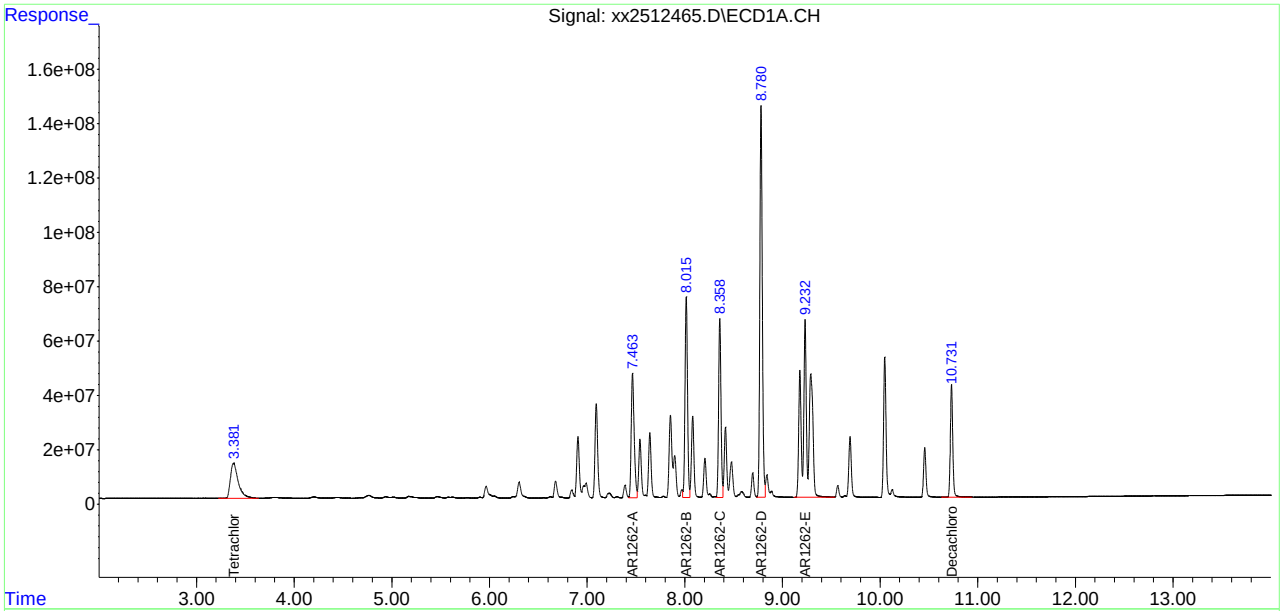
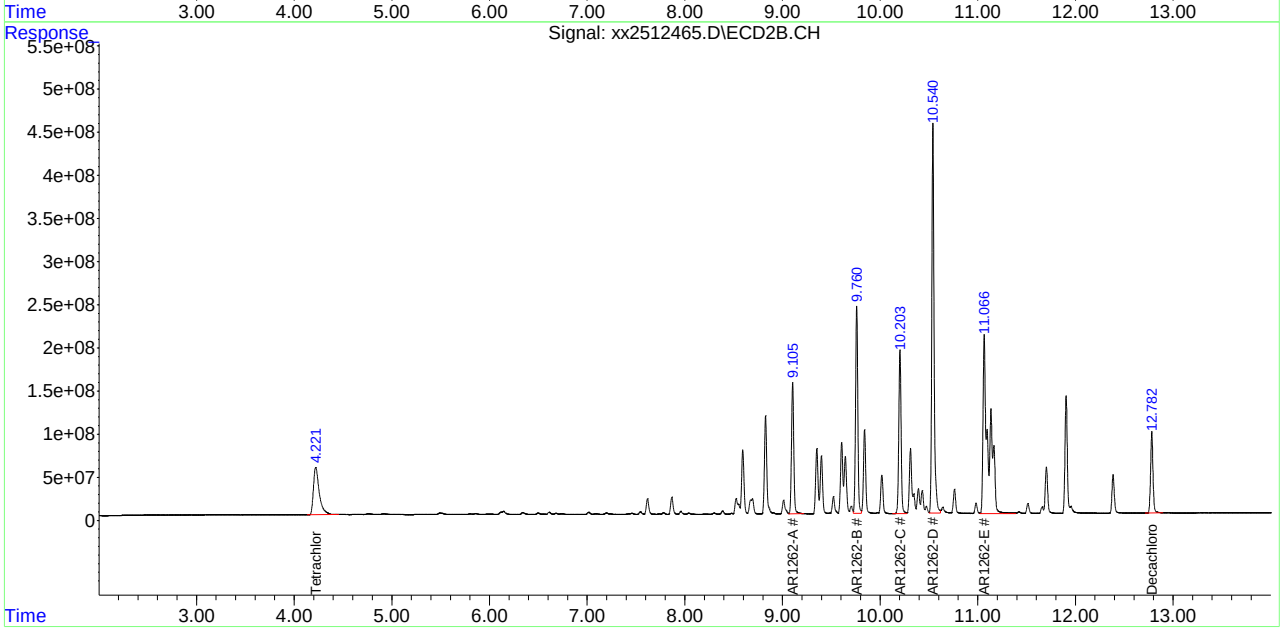
Quantitation Report (QT Reviewed)

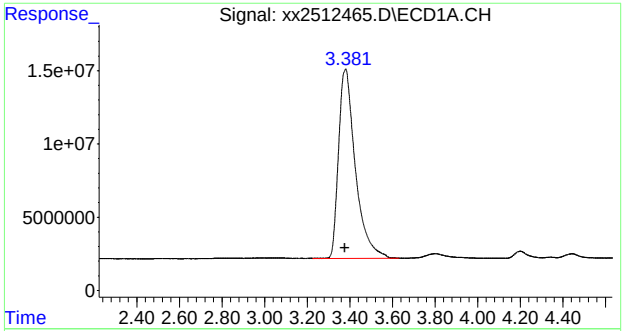
Data Path : C:\msdchem\1\data\GXX8517\
Data File : xx2512465.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 7:16 pm
Operator : mahalial
Sample : ic8517-1000 (ar1262)
Misc : op54039,gxx8517,1.0,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 17:49:16 2024
Quant Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M
Quant Title :
QLast Update : Thu May 09 17:38:07 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

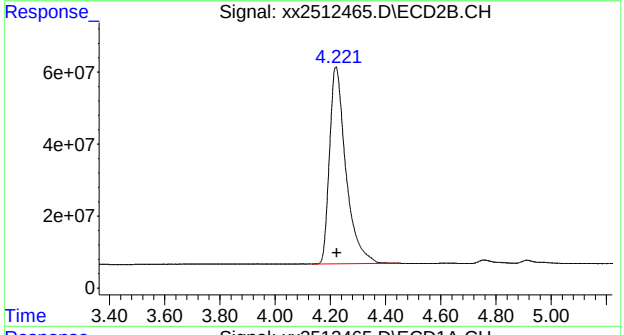






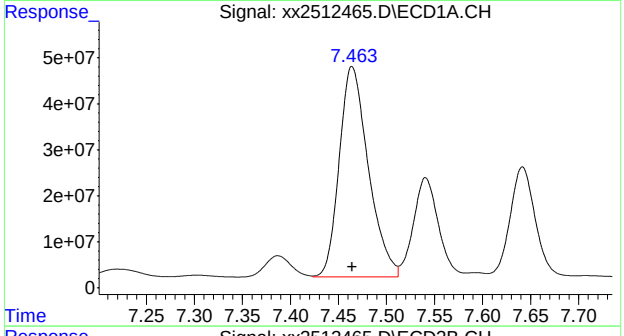
#1 Tetrachloro-m-xylene

R.T.: 3.381 min
Delta R.T.: 0.004 min
Response: 706375668
Conc: 37.16 ppb



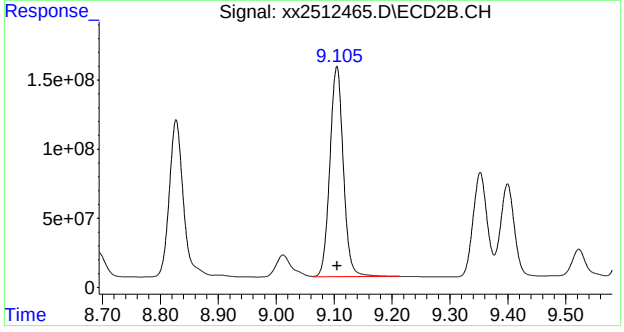
#1 Tetrachloro-m-xylene

R.T.: 4.221 min
Delta R.T.: -0.002 min
Response: 2250824758
Conc: 36.59 ppb



#31 AR1262-A

R.T.: 7.464 min
Delta R.T.: 0.000 min
Response: 964992068
Conc: 1000.00 PPB



#31 AR1262-A

R.T.: 9.105 min
Delta R.T.: 0.000 min
Response: 2452728770
Conc: 1000.00 PPB

9.3.18

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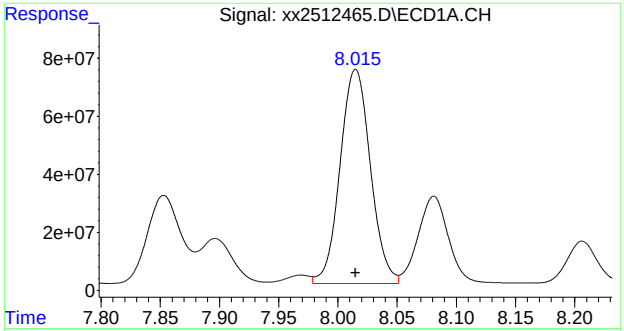
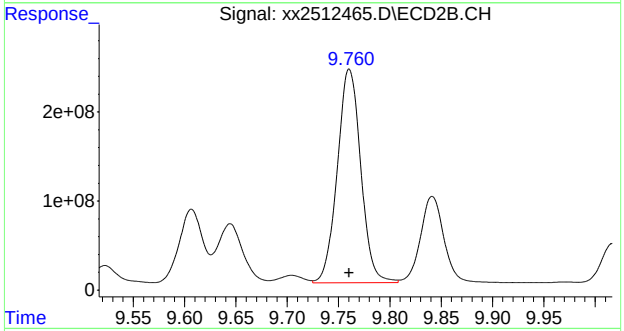


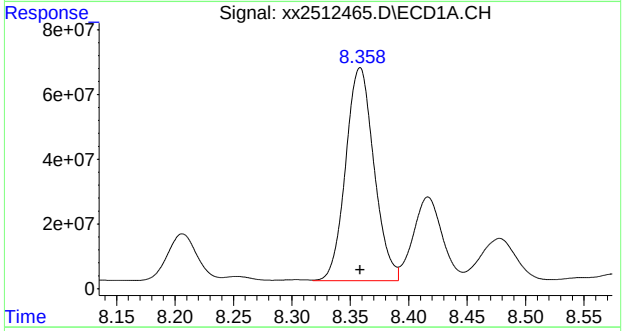
#32 AR1262-B

R.T.: 8.015 min
Delta R.T.: 0.000 min
Response: 1317172178
Conc: 1000.00 PPB



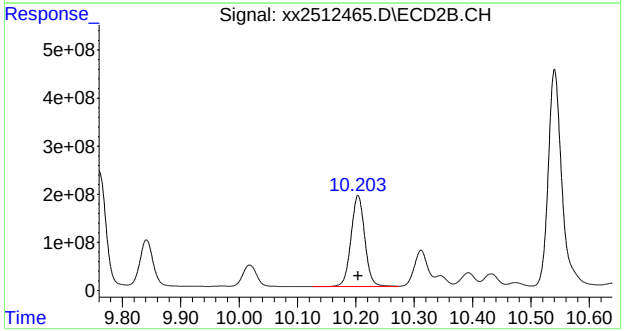
#32 AR1262-B

R.T.: 9.760 min
Delta R.T.: 0.000 min
Response: 3827569885
Conc: 1000.00 PPB



#33 AR1262-C

R.T.: 8.358 min
Delta R.T.: 0.000 min
Response: 1111562664
Conc: 1000.00 PPB

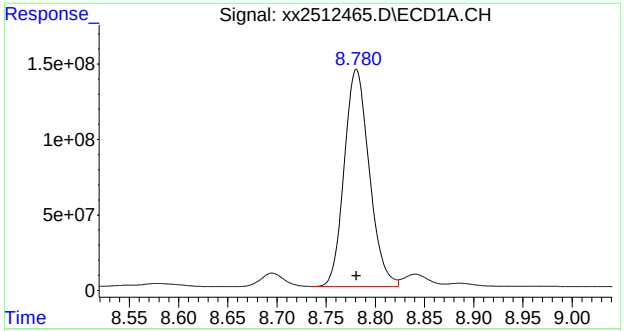


#33 AR1262-C

R.T.: 10.204 min
Delta R.T.: 0.000 min
Response: 3114254258
Conc: 1000.00 PPB

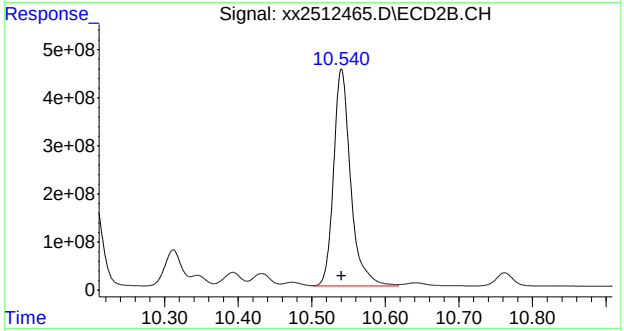
9.3.18

9



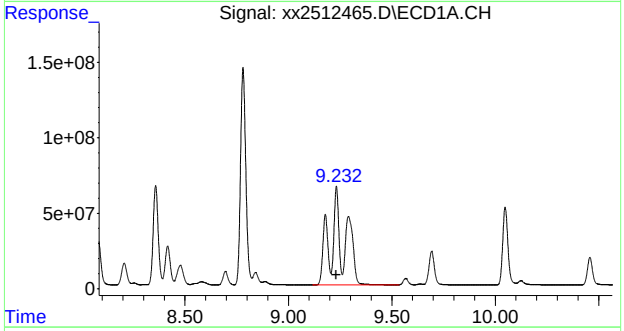
#34 AR1262-D

R.T.: 8.781 min
Delta R.T.: 0.000 min
Response: 2554020273
Conc: 1000.00 PPB



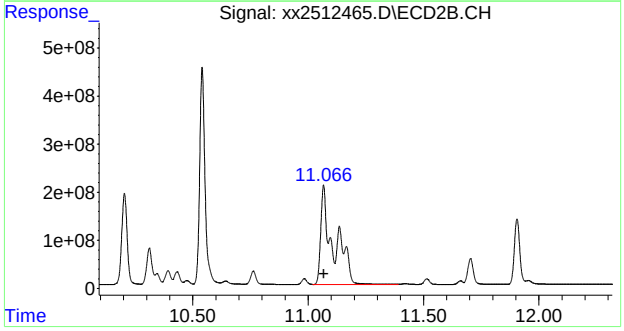
#34 AR1262-D

R.T.: 10.540 min
Delta R.T.: 0.000 min
Response: 7271707194
Conc: 1000.00 PPB



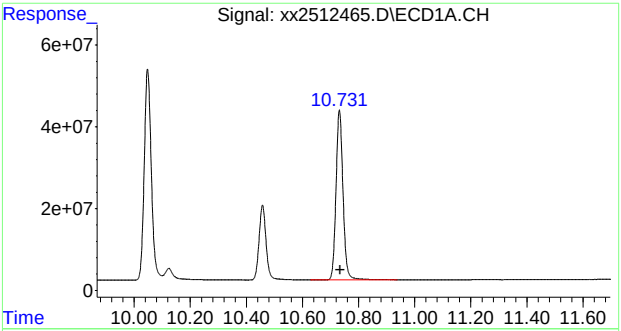
#35 AR1262-E

R.T.: 9.232 min
Delta R.T.: 0.000 min
Response: 3083639416
Conc: 1002.94 PPB m



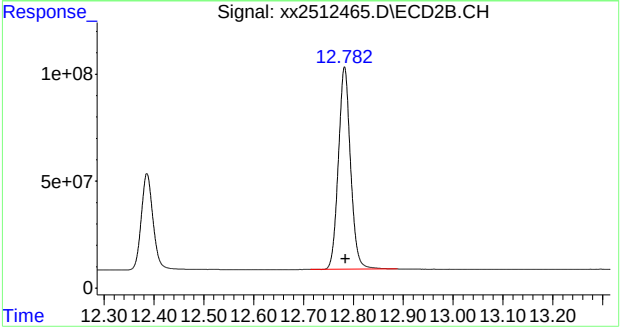
#35 AR1262-E

R.T.: 11.066 min
Delta R.T.: 0.000 min
Response: 7997342958
Conc: 1000.07 PPB m



#51 Decachlorobiphenyl

R.T.: 10.732 min
Delta R.T.: -0.002 min
Response: 717859544
Conc: 38.91 ppb



#51 Decachlorobiphenyl

R.T.: 12.782 min
Delta R.T.: -0.002 min
Response: 1607550402
Conc: 39.52 ppb

9.3.18

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GXX8517\
Data File : xx2512466.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 7:34 pm
Operator : mahalial
Sample : ic8517-1000 (ar1242)
Misc : op54039,gxx8517,1.0,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 17:50:02 2024
Quant Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M
Quant Title :
QLast Update : Thu May 09 17:38:07 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.382	4.224	713.5E6	2295.8E6	37.537	37.319
	Spiked Amount 40.000			Recovery	=	93.84%	93.30%
51) S	Decachlor...	10.732	12.784	718.7E6	1605.5E6	38.953	39.474
	Spiked Amount 40.000			Recovery	=	97.38%	98.68%
	Target Compounds						
12)	AR1242-A	4.197	5.490	522.2E6	1597.0E6	1000.000	1000.000
13)	AR1242-B	4.764	6.143	1228.0E6	3332.1E6	1000.000	1000.000
14)	AR1242-C	4.931	6.340	440.0E6	1297.1E6	1000.000	1000.000
15)	AR1242-D	5.460	7.013	487.6E6	1023.1E6	1000.000	1000.000
16)	AR1242-E	6.047	7.618	446.2E6	1258.7E6	1000.000	1000.000

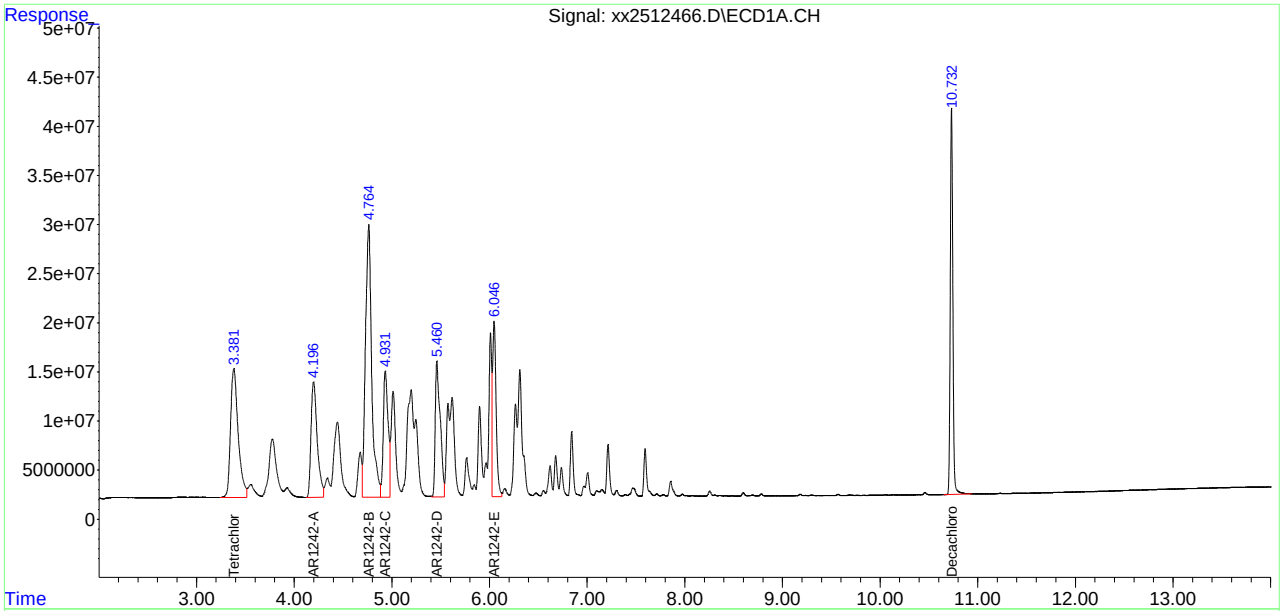
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

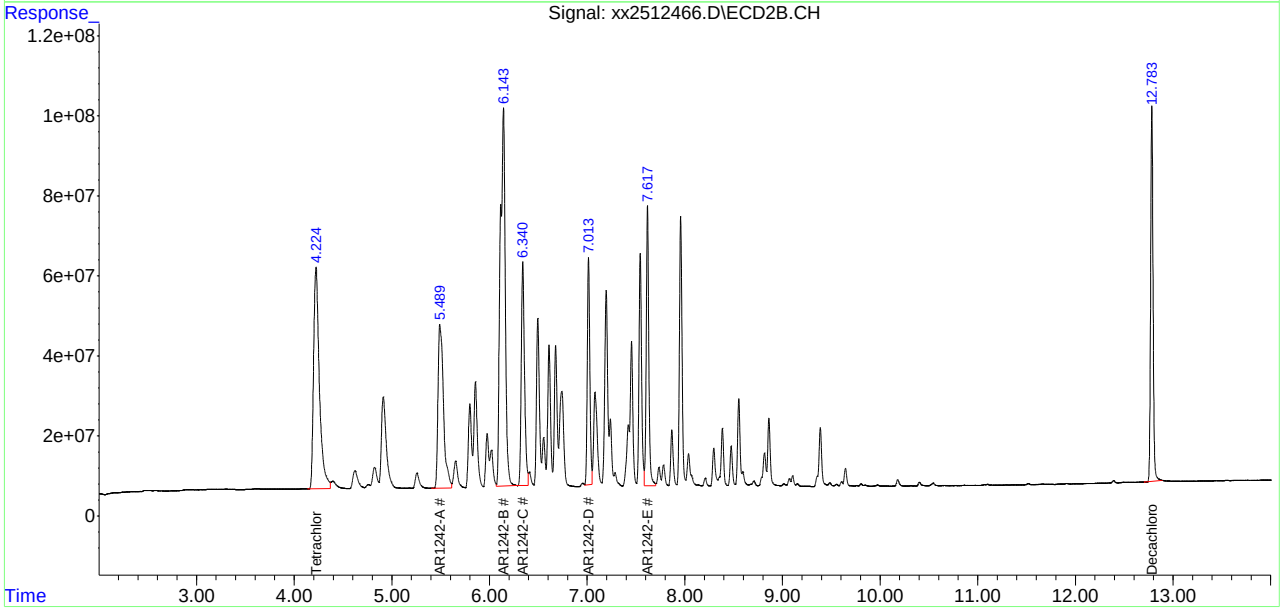
Quantitation Report (QT Reviewed)

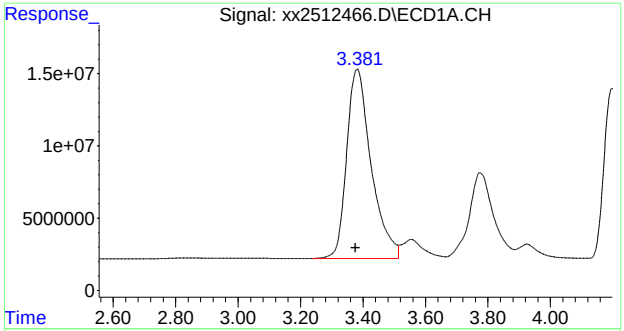
Data Path : C:\msdchem\1\data\GXX8517\
Data File : xx2512466.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 7:34 pm
Operator : mahalial
Sample : ic8517-1000 (ar1242)
Misc : op54039,gxx8517,1.0,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 17:50:02 2024
Quant Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M
Quant Title :
QLast Update : Thu May 09 17:38:07 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

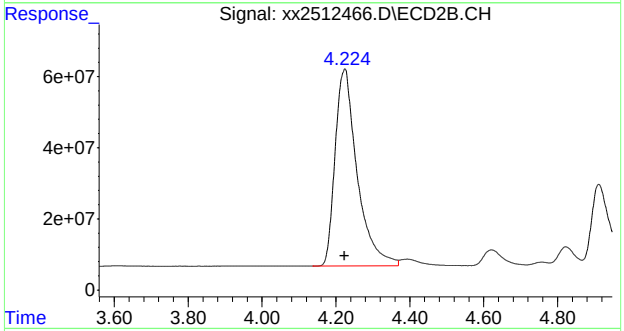






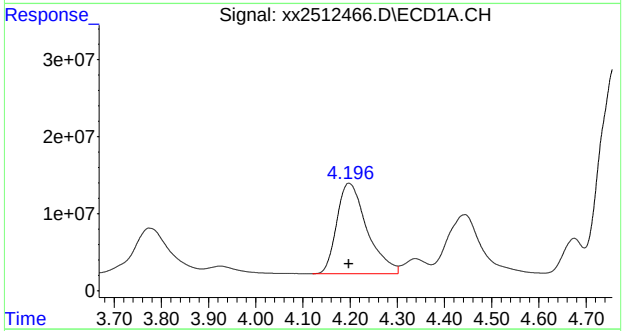
#1 Tetrachloro-m-xylene

R.T.: 3.382 min
Delta R.T.: 0.006 min
Response: 713453139
Conc: 37.54 ppb



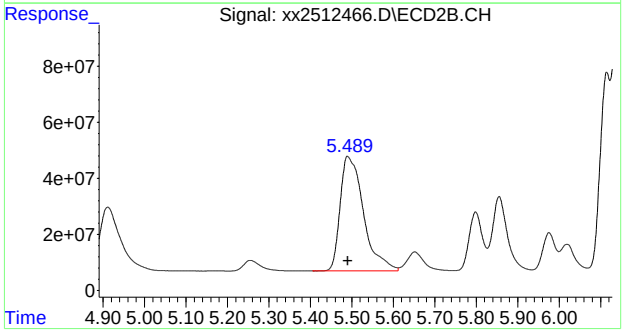
#1 Tetrachloro-m-xylene

R.T.: 4.224 min
Delta R.T.: 0.001 min
Response: 2295795955
Conc: 37.32 ppb



#12 AR1242-A

R.T.: 4.197 min
Delta R.T.: 0.000 min
Response: 522164883
Conc: 1000.00 PPB

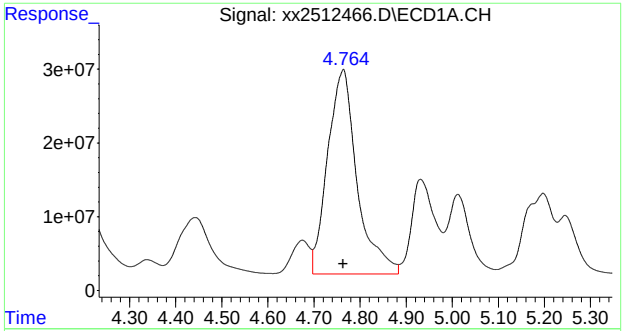


#12 AR1242-A

R.T.: 5.490 min
Delta R.T.: 0.000 min
Response: 1597045155
Conc: 1000.00 PPB

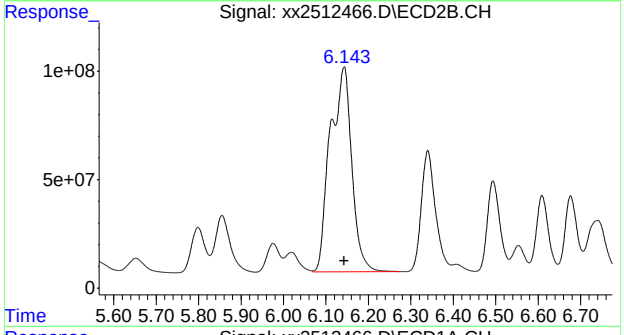
9.3.19

6



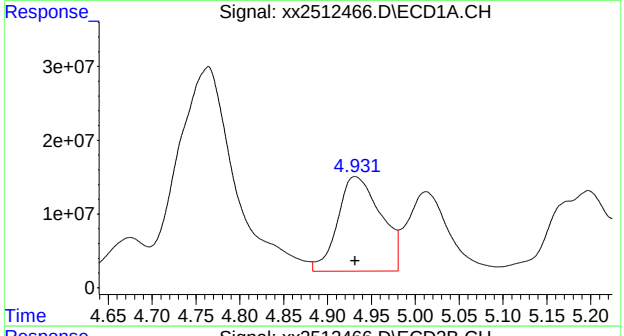
#13 AR1242-B

R.T.: 4.764 min
Delta R.T.: 0.000 min
Response: 1227994195
Conc: 1000.00 PPB



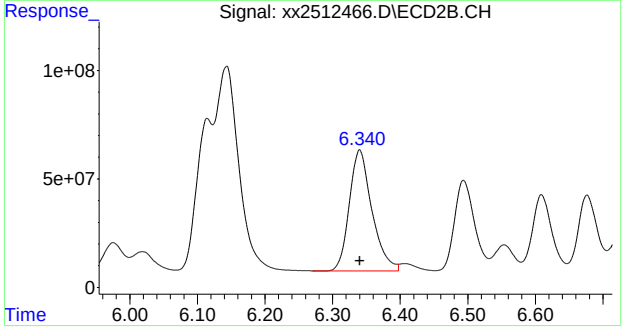
#13 AR1242-B

R.T.: 6.143 min
Delta R.T.: 0.000 min
Response: 3332130036
Conc: 1000.00 PPB



#14 AR1242-C

R.T.: 4.931 min
Delta R.T.: 0.000 min
Response: 440000955
Conc: 1000.00 PPB

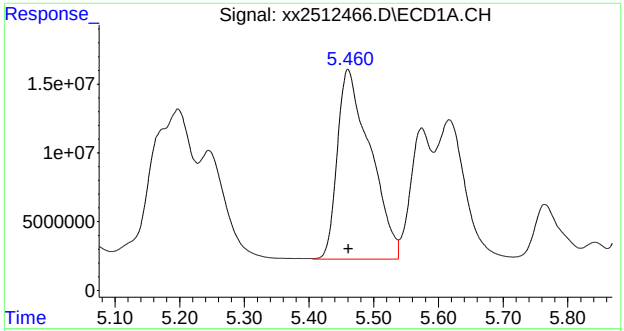


#14 AR1242-C

R.T.: 6.340 min
Delta R.T.: 0.000 min
Response: 1297087908
Conc: 1000.00 PPB

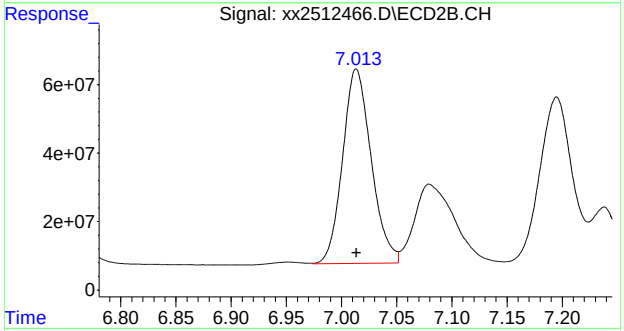
9.3.19

6



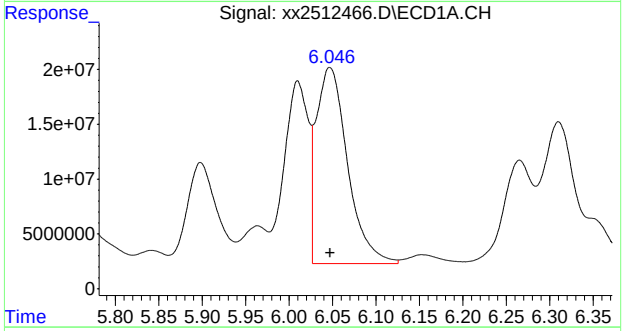
#15 AR1242-D

R.T.: 5.460 min
Delta R.T.: 0.000 min
Response: 487603972
Conc: 1000.00 PPB



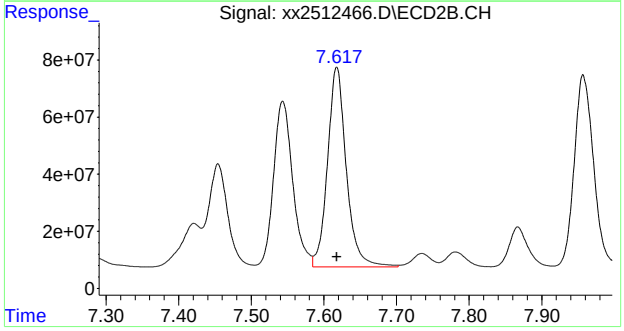
#15 AR1242-D

R.T.: 7.013 min
Delta R.T.: 0.000 min
Response: 1023141067
Conc: 1000.00 PPB



#16 AR1242-E

R.T.: 6.047 min
Delta R.T.: 0.000 min
Response: 446239986
Conc: 1000.00 PPB

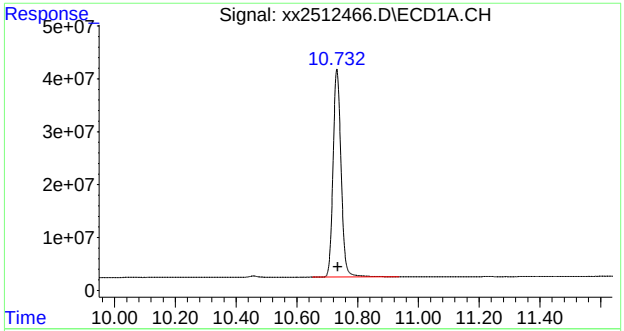


#16 AR1242-E

R.T.: 7.618 min
Delta R.T.: 0.000 min
Response: 1258706183
Conc: 1000.00 PPB

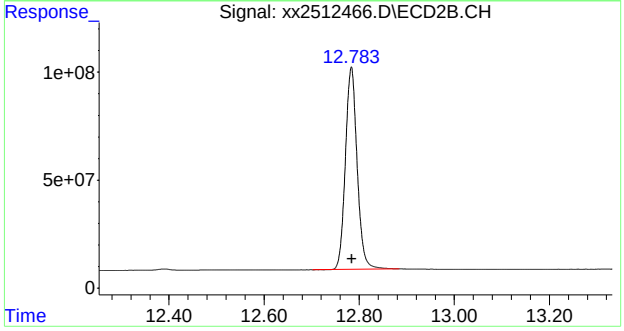
9.3.19

6



#51 Decachlorobiphenyl

R.T.: 10.732 min
Delta R.T.: -0.002 min
Response: 718733359
Conc: 38.95 ppb



#51 Decachlorobiphenyl

R.T.: 12.784 min
Delta R.T.: 0.000 min
Response: 1605481822
Conc: 39.47 ppb

9.3.19

6

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/15/24 09:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GXX8517\
Data File : xx2512468.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:10 pm
Operator : mahalial
Sample : ic8517-1000 (ar1248)
Misc : op54039,gxx8517,1.0,,,10,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 08 17:32:51 2024
Quant Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M
Quant Title :
QLast Update : Tue May 07 13:44:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.376	4.218	660.4E6	2095.5E6	41.146	40.163
	Spiked Amount 40.000			Recovery	=	102.87%	100.41%
51) S	Decachlor...	10.736	12.786	662.8E6	1481.8E6	40.924	42.059
	Spiked Amount 40.000			Recovery	=	102.31%	105.15%
	Target Compounds						
17)	AR1248-A	4.195	5.488	244.1E6	736.6E6	1140.223	1138.478
18)	AR1248-B	4.759	6.143	778.4E6	2064.5E6	1243.618	1116.317m
19)	AR1248-C	5.195	6.610	1061.8E6	1225.2E6	1121.573m	1117.360
20)	AR1248-D	5.462	7.015	734.2E6	1633.4E6	1126.563	1128.785m
21)	AR1248-E	5.575	7.195	370.6E6	1574.9E6	1099.107	1141.573m
22)	AR1248-F	6.047	7.620	1295.6E6	2175.3E6	1101.302m	1088.833
23)	AR1248-G	6.309	7.959	789.9E6	2034.8E6	1115.327m	1079.318

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

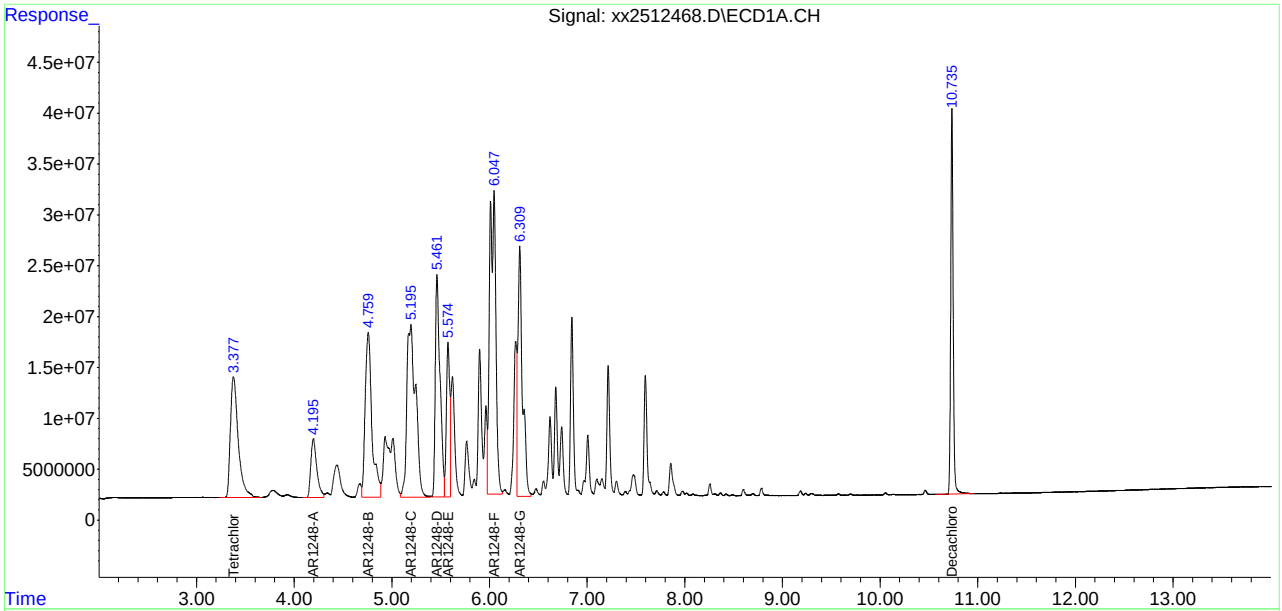
9.3.20
9

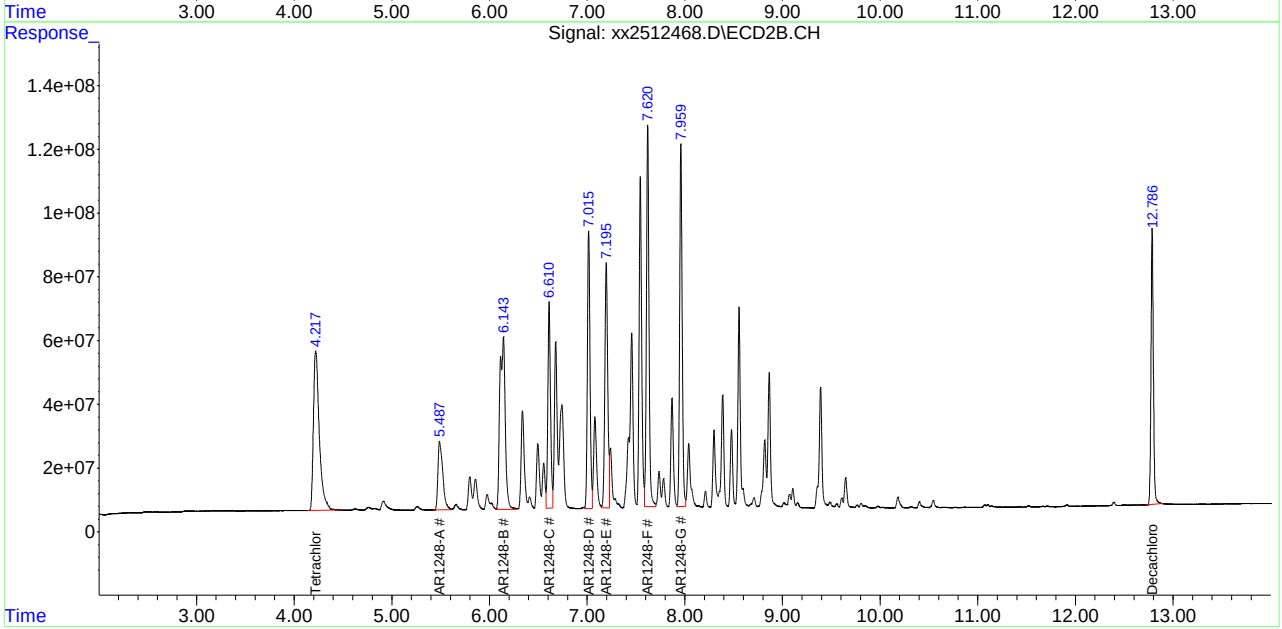
Quantitation Report (QT Reviewed)

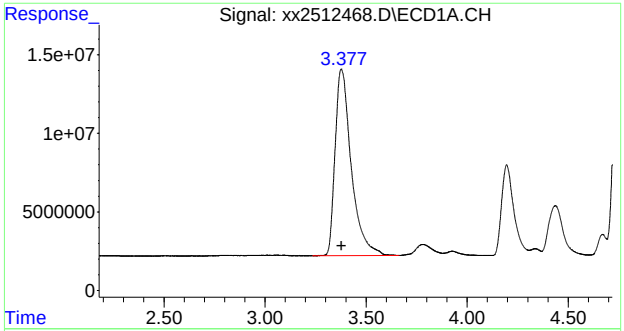
Data Path : C:\msdchem\1\data\GXX8517\
Data File : xx2512468.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 May 2024 8:10 pm
Operator : mahalial
Sample : ic8517-1000 (ar1248)
Misc : op54039,gxx8517,1.0,,,10,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 08 17:32:51 2024
Quant Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M
Quant Title :
QLast Update : Tue May 07 13:44:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

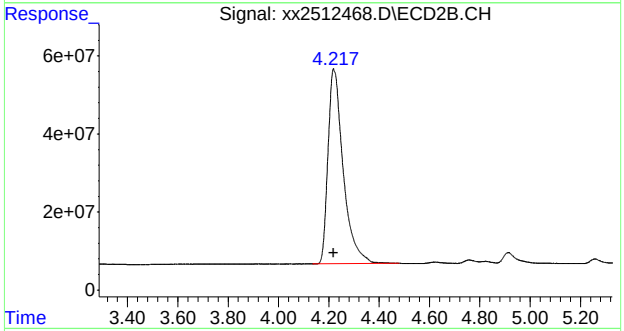






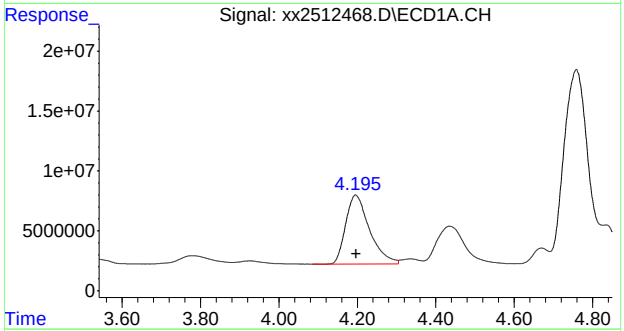
#1 Tetrachloro-m-xylene

R.T.: 3.376 min
Delta R.T.: 0.000 min
Response: 660433980
Conc: 41.15 ppb



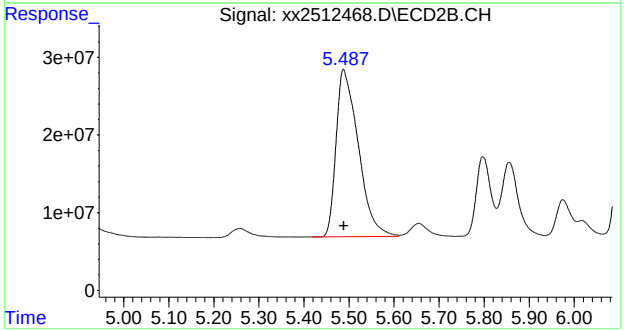
#1 Tetrachloro-m-xylene

R.T.: 4.218 min
Delta R.T.: 0.000 min
Response: 2095478194
Conc: 40.16 ppb



#17 AR1248-A

R.T.: 4.195 min
Delta R.T.: -0.001 min
Response: 244132268
Conc: 1140.22 PPB

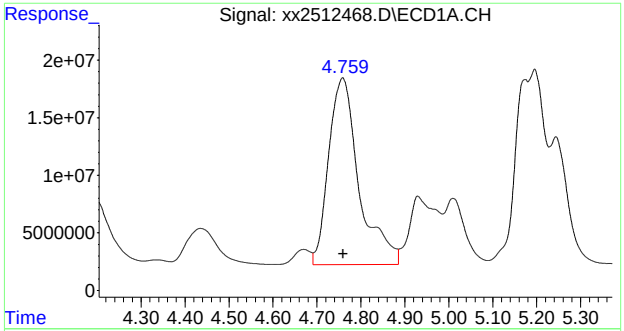


#17 AR1248-A

R.T.: 5.488 min
Delta R.T.: 0.000 min
Response: 736612055
Conc: 1138.48 PPB

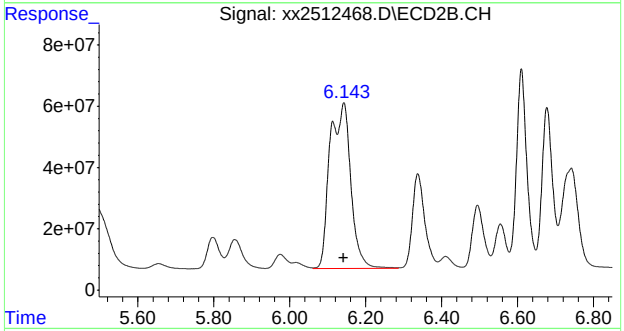
9.3.20

9



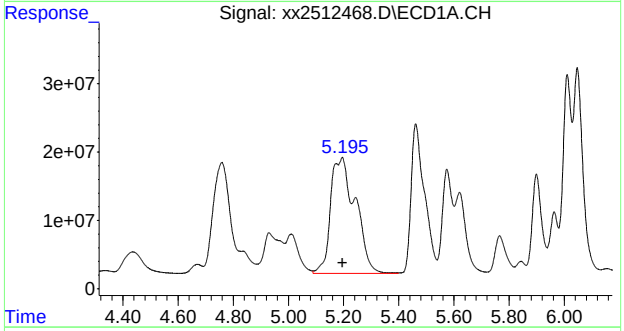
#18 AR1248-B

R.T.: 4.759 min
Delta R.T.: 0.000 min
Response: 778445230
Conc: 1243.62 PPB



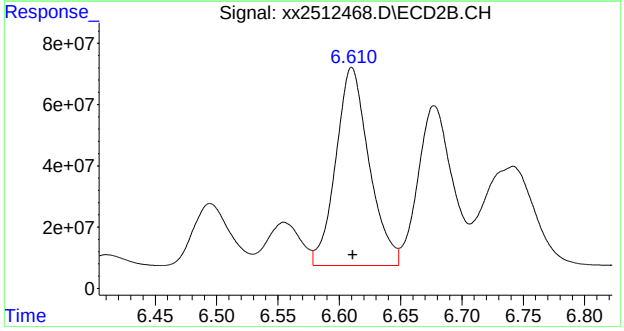
#18 AR1248-B

R.T.: 6.143 min
Delta R.T.: 0.000 min
Response: 2064479811
Conc: 1116.32 PPB m



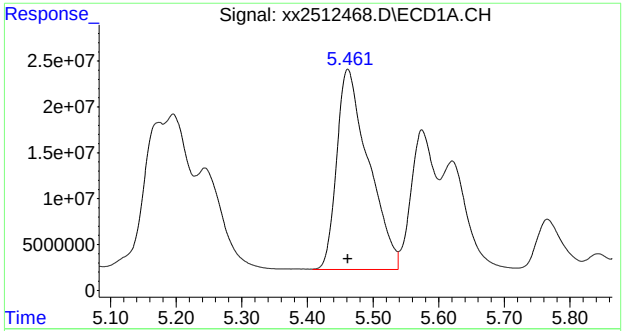
#19 AR1248-C

R.T.: 5.195 min
Delta R.T.: 0.000 min
Response: 1061760828
Conc: 1121.57 PPB m



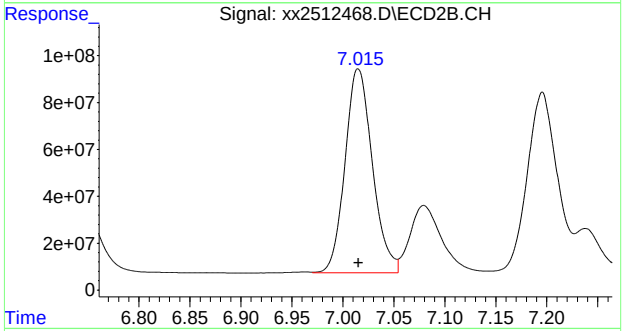
#19 AR1248-C

R.T.: 6.610 min
Delta R.T.: 0.000 min
Response: 1225234379
Conc: 1117.36 PPB



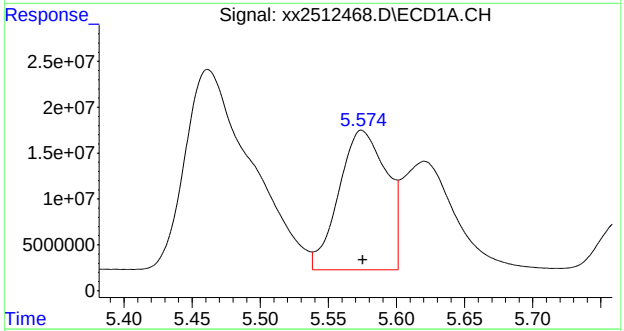
#20 AR1248-D

R.T.: 5.462 min
Delta R.T.: 0.000 min
Response: 734160575
Conc: 1126.56 PPB



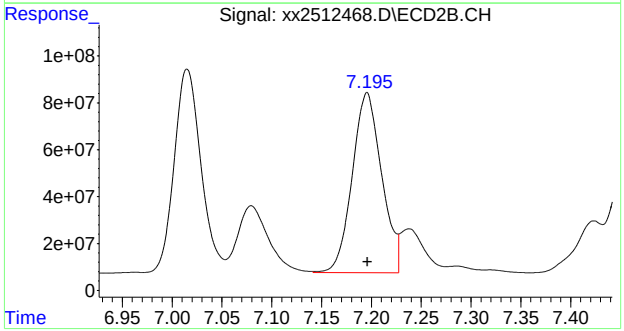
#20 AR1248-D

R.T.: 7.015 min
Delta R.T.: 0.000 min
Response: 1633414517
Conc: 1128.79 PPB m



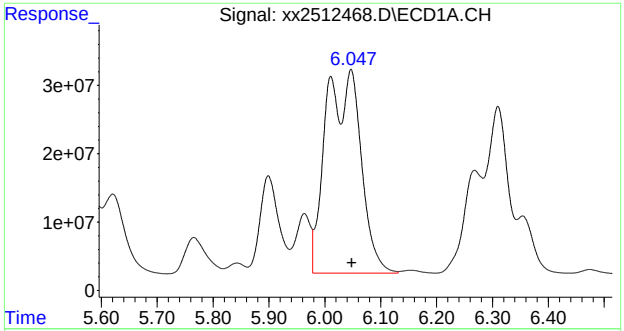
#21 AR1248-E

R.T.: 5.575 min
Delta R.T.: 0.000 min
Response: 370561500
Conc: 1099.11 PPB



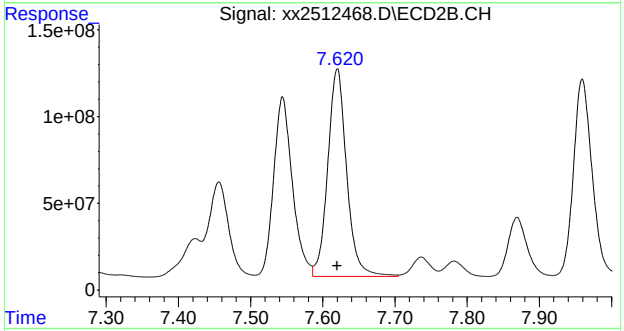
#21 AR1248-E

R.T.: 7.195 min
Delta R.T.: 0.000 min
Response: 1574916816
Conc: 1141.57 PPB m



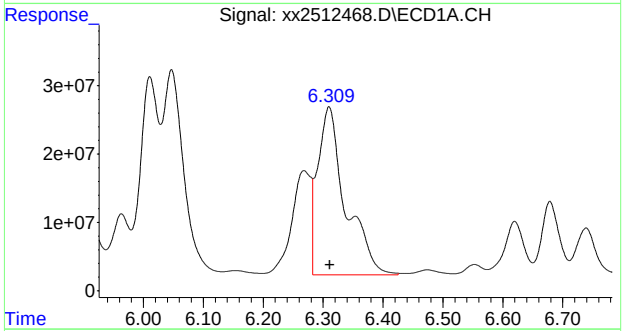
#22 AR1248-F

R.T.: 6.047 min
Delta R.T.: -0.002 min
Response: 1295595284
Conc: 1101.30 PPB m



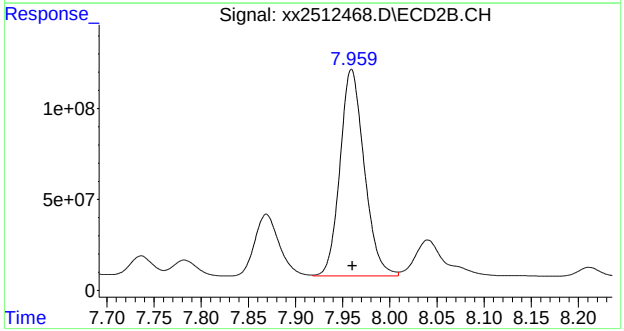
#22 AR1248-F

R.T.: 7.620 min
Delta R.T.: 0.000 min
Response: 2175272497
Conc: 1088.83 PPB



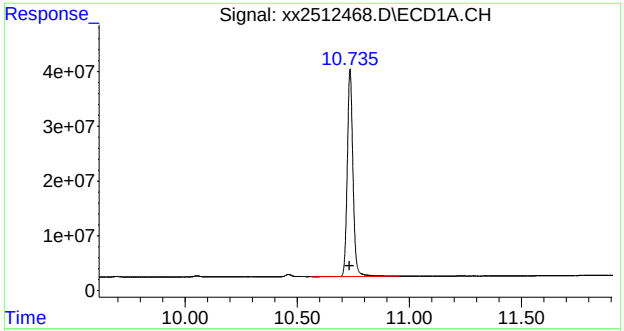
#23 AR1248-G

R.T.: 6.309 min
Delta R.T.: -0.002 min
Response: 789945079
Conc: 1115.33 PPB m



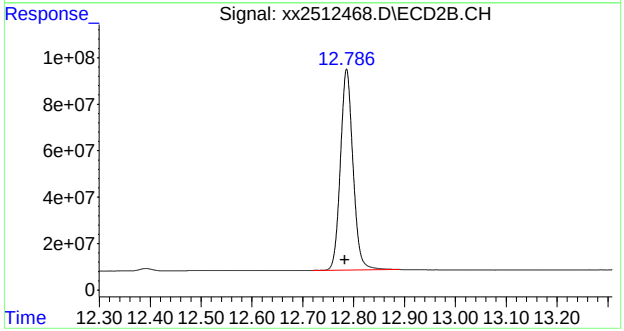
#23 AR1248-G

R.T.: 7.959 min
Delta R.T.: 0.000 min
Response: 2034837710
Conc: 1079.32 PPB



#51 Decachlorobiphenyl

R.T.: 10.736 min
Delta R.T.: 0.003 min
Response: 662784850
Conc: 40.92 ppb



#51 Decachlorobiphenyl

R.T.: 12.786 min
Delta R.T.: 0.003 min
Response: 1481827719
Conc: 42.06 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/15/24 09:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GXX8517\
Data File : xx2512478.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 May 2024 12:02 pm
Operator : mahalial
Sample : ic8517-1000 (ar1232)
Misc : op54039,gxx8517,1.0,,,10,1
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 17:18:06 2024
Quant Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M
Quant Title :
QLast Update : Thu May 09 10:33:12 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.377	4.226	640.1E6	1953.2E6	33.676	31.749
	Spiked Amount 40.000			Recovery	=	84.19%	79.37%
51) S	Decachlor...	10.736	12.789	594.7E6	1391.2E6	32.231	34.204
	Spiked Amount 40.000			Recovery	=	80.58%	85.51%
	Target Compounds						
7)	AR1232-A	3.772	4.918	424.2E6	977.7E6	972.127	943.772
8)	AR1232-B	4.197	5.496	271.4E6	768.0E6	969.681	946.145
9)	AR1232-C	4.762	6.148	584.2E6	1542.8E6	948.167	922.914
10)	AR1232-D	4.931	6.344	207.3E6	646.5E6	933.618	929.038
11)	AR1232-E	5.461	7.019	209.4E6	449.2E6	952.691	952.814m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

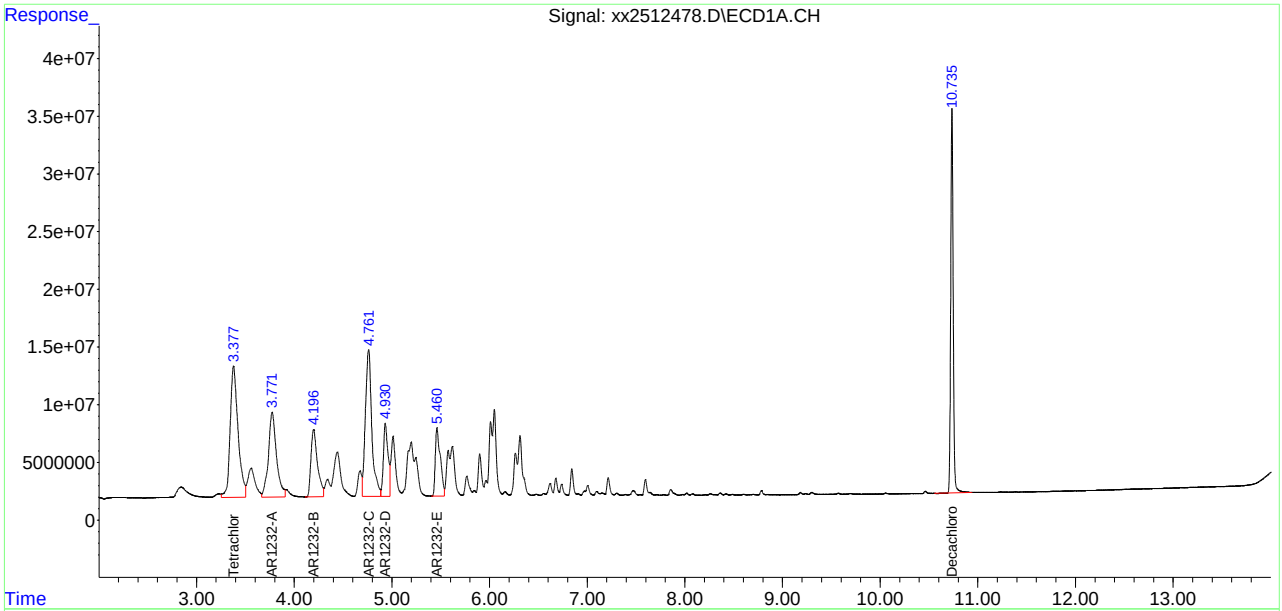
9.3.21
9

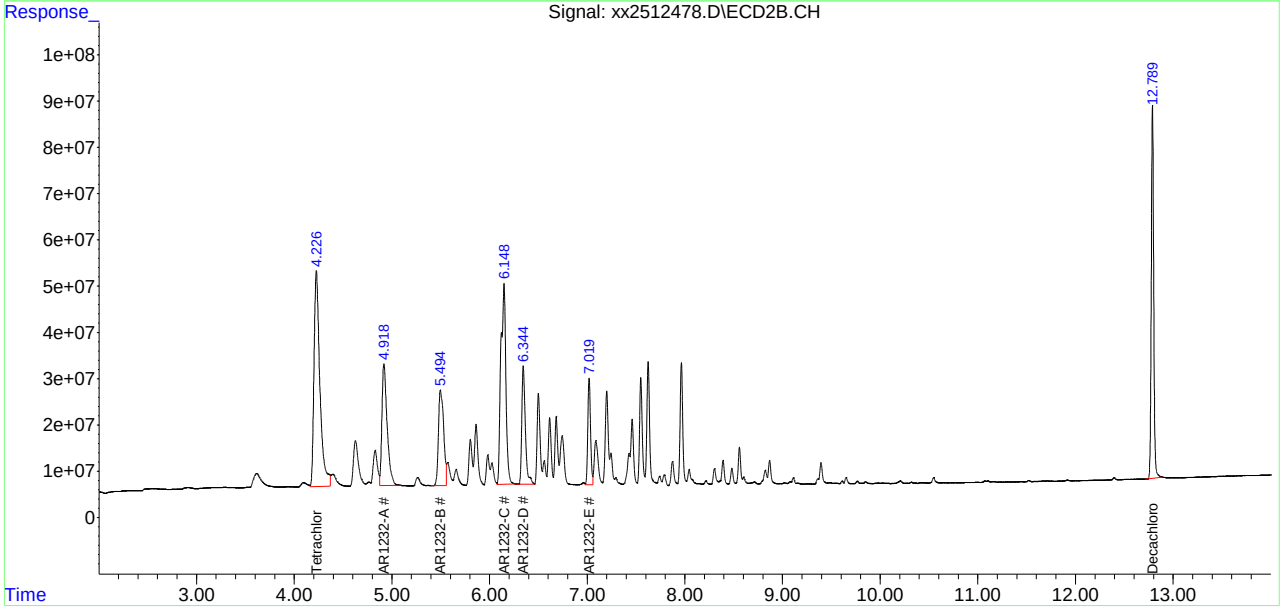
Quantitation Report (QT Reviewed)

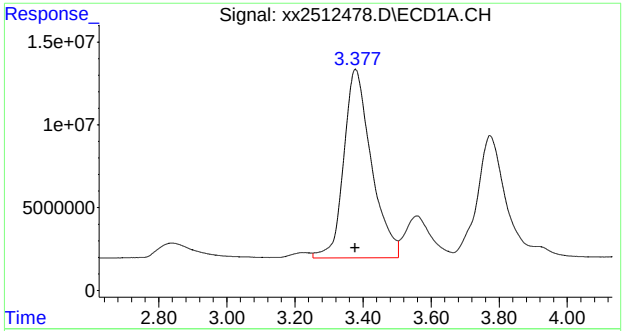
Data Path : C:\msdchem\1\data\GXX8517\
Data File : xx2512478.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 May 2024 12:02 pm
Operator : mahalial
Sample : ic8517-1000 (ar1232)
Misc : op54039,gxx8517,1.0,,,10,1
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 17:18:06 2024
Quant Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M
Quant Title :
QLast Update : Thu May 09 10:33:12 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

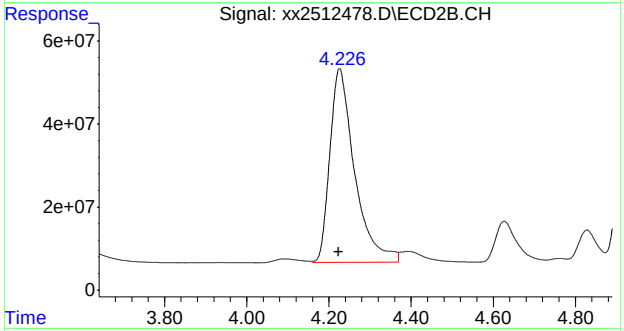






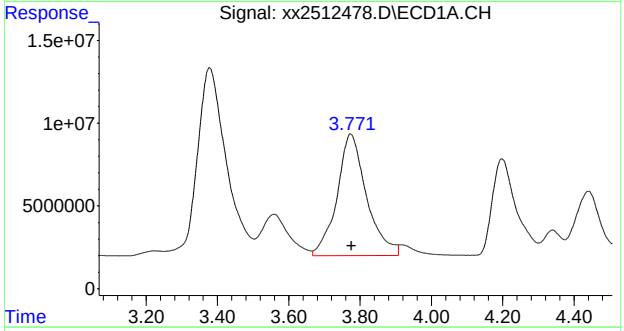
#1 Tetrachloro-m-xylene

R.T.: 3.377 min
Delta R.T.: 0.000 min
Response: 640060110
Conc: 33.68 ppb



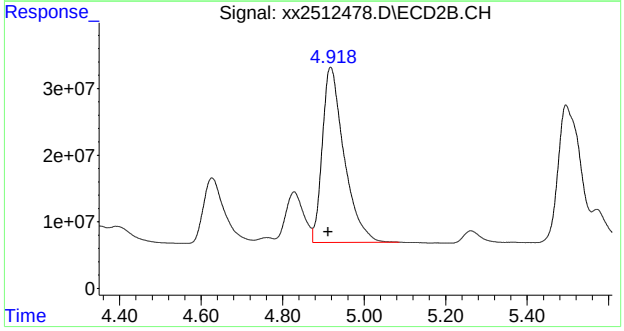
#1 Tetrachloro-m-xylene

R.T.: 4.226 min
Delta R.T.: 0.003 min
Response: 1953159878
Conc: 31.75 ppb



#7 AR1232-A

R.T.: 3.772 min
Delta R.T.: -0.003 min
Response: 424202666
Conc: 972.13 PPB

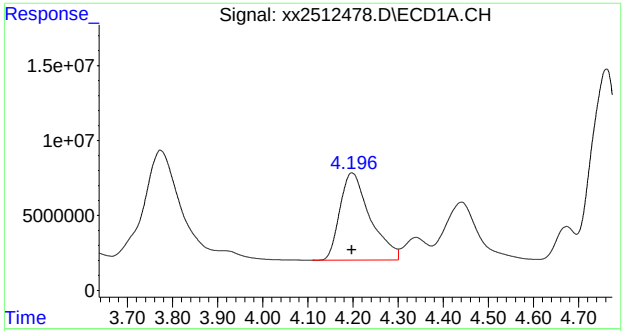


#7 AR1232-A

R.T.: 4.918 min
Delta R.T.: 0.006 min
Response: 977656486
Conc: 943.77 PPB

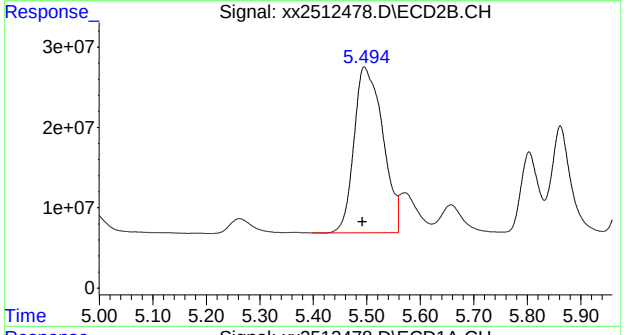
9.3.21

9



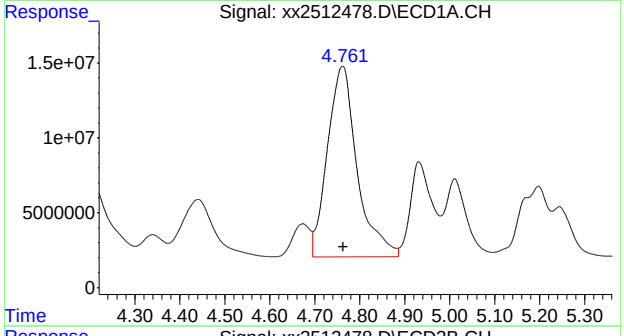
#8 AR1232-B

R.T.: 4.197 min
Delta R.T.: 0.000 min
Response: 271438435
Conc: 969.68 PPB



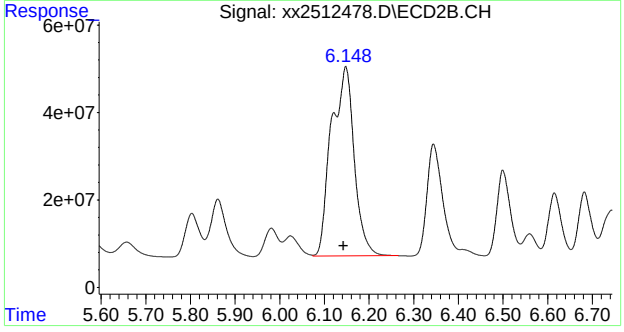
#8 AR1232-B

R.T.: 5.496 min
Delta R.T.: 0.004 min
Response: 768003520
Conc: 946.15 PPB



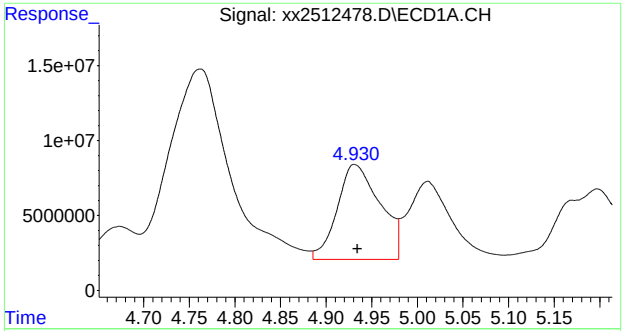
#9 AR1232-C

R.T.: 4.762 min
Delta R.T.: 0.000 min
Response: 584168570
Conc: 948.17 PPB



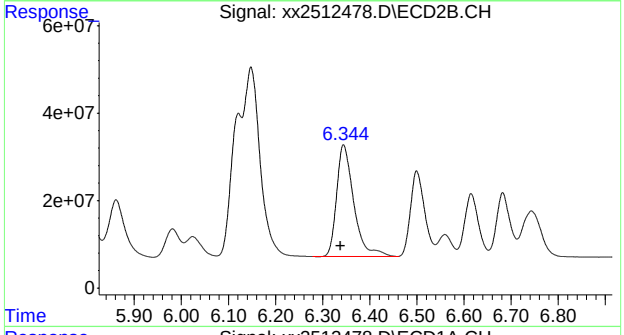
#9 AR1232-C

R.T.: 6.148 min
Delta R.T.: 0.005 min
Response: 1542828246
Conc: 922.91 PPB



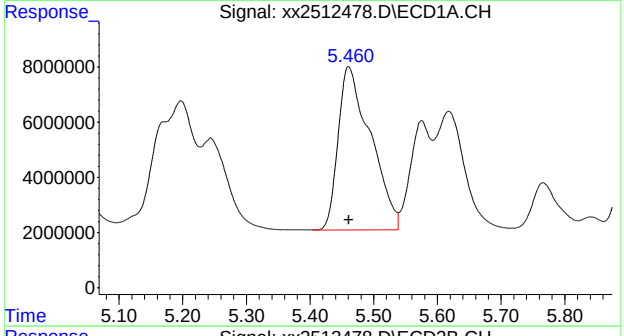
#10 AR1232-D

R.T.: 4.931 min
Delta R.T.: -0.003 min
Response: 207324624
Conc: 933.62 PPB



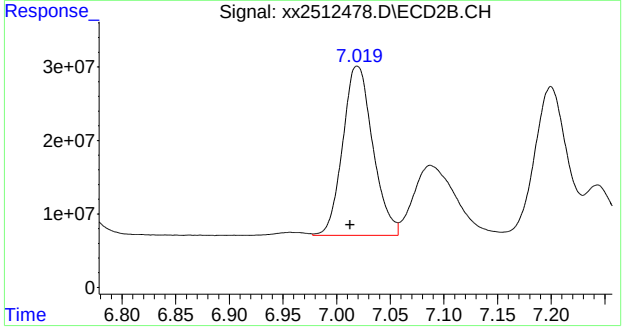
#10 AR1232-D

R.T.: 6.344 min
Delta R.T.: 0.007 min
Response: 646464176
Conc: 929.04 PPB



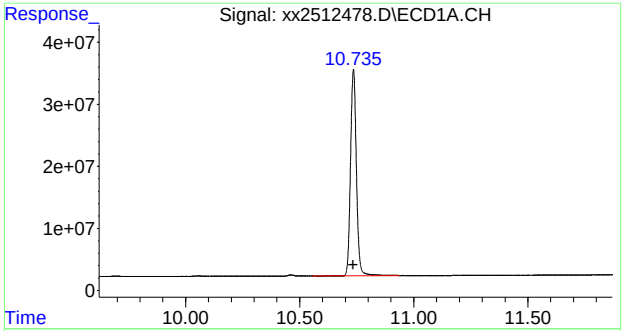
#11 AR1232-E

R.T.: 5.461 min
Delta R.T.: 0.000 min
Response: 209380019
Conc: 952.69 PPB



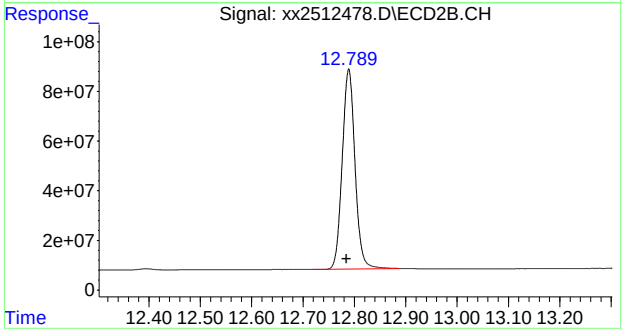
#11 AR1232-E

R.T.: 7.019 min
Delta R.T.: 0.006 min
Response: 449245793
Conc: 952.81 PPB m



#51 Decachlorobiphenyl

R.T.: 10.736 min
Delta R.T.: 0.002 min
Response: 594702896
Conc: 32.23 ppb



#51 Decachlorobiphenyl

R.T.: 12.789 min
Delta R.T.: 0.005 min
Response: 1391159544
Conc: 34.20 ppb

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GXX8517\
Data File : xx2512480.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 May 2024 12:37 pm
Operator : mahalial
Sample : ic8517-1000 (ar1268)
Misc : op54039,gxx8517,1.0,,,10,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 17:33:30 2024
Quant Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M
Quant Title :
QLast Update : Thu May 09 17:32:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.379	4.220	726.4E6	2252.7E6	38.886	37.470
	Spiked Amount 40.000			Recovery	=	97.22%	93.67%
51) S	Decachlor...	10.738	12.788	2052.6E6	4894.3E6	86.703	91.186
	Spiked Amount 40.000			Recovery	=	216.76%	227.97%
	Target Compounds						
36)	AR1268-A	9.238	11.071	2880.1E6	8109.2E6	1000.000	1000.000
37)	AR1268-B	9.292	11.139	2781.3E6	7362.9E6	1000.000	1000.000
38)	AR1268-C	9.573	11.517	2440.0E6	6599.7E6	1000.000	1000.000
39)	AR1268-D	10.055	11.910	923.5E6	2320.8E6	1000.000	1000.000
40)	AR1268-E	10.464	12.392	6804.4E6	17791.5E6	1000.000	1000.000

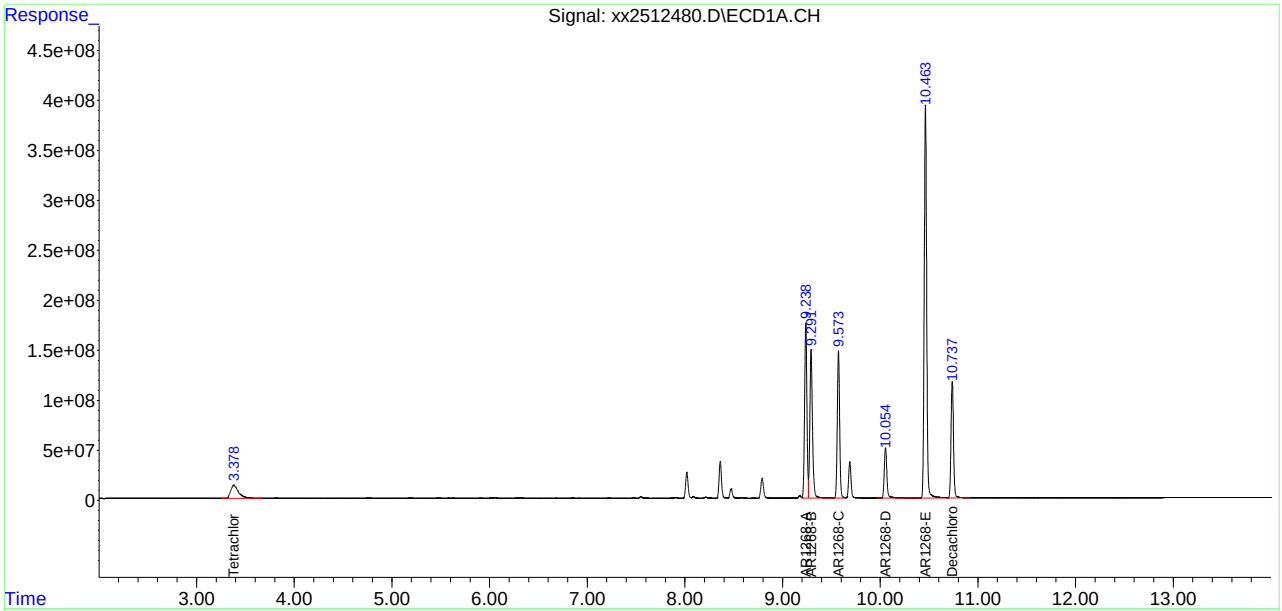
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

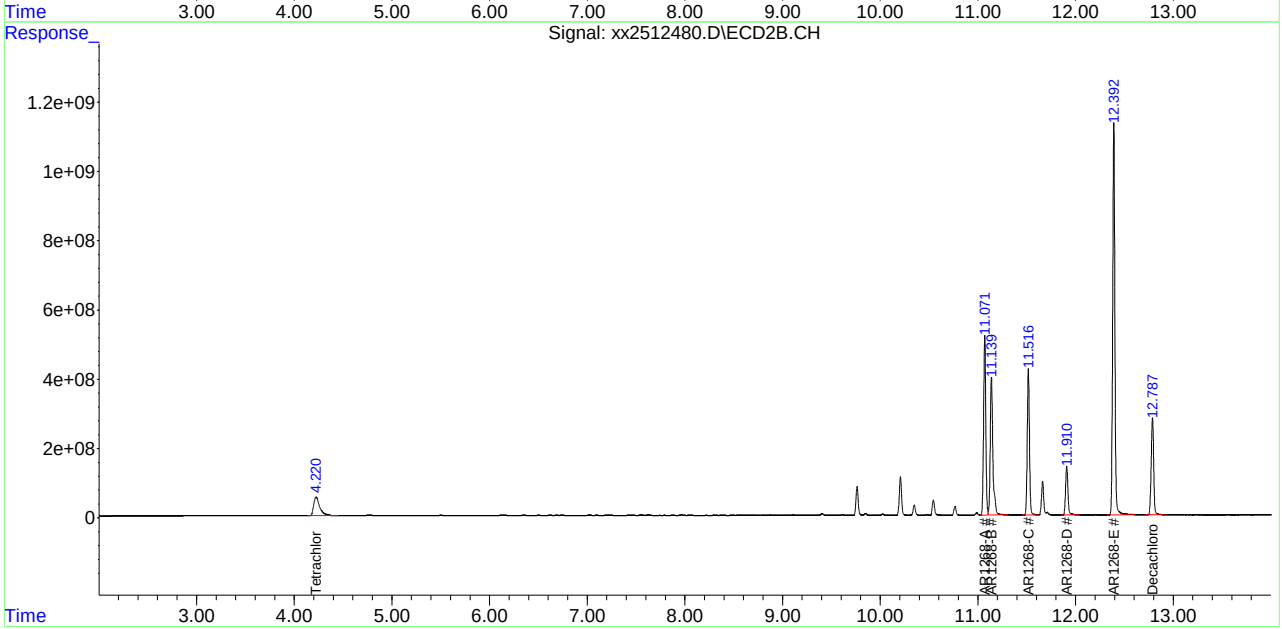
Quantitation Report (QT Reviewed)

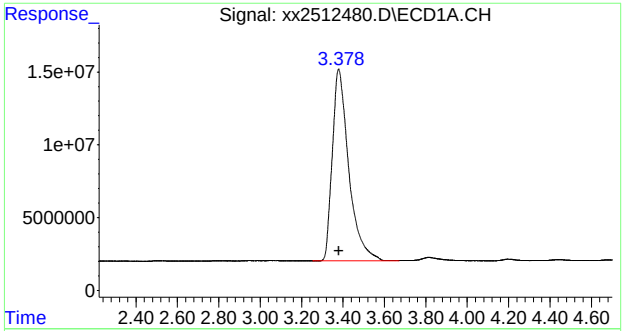
Data Path : C:\msdchem\1\data\GXX8517\
Data File : xx2512480.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 May 2024 12:37 pm
Operator : mahalial
Sample : ic8517-1000 (ar1268)
Misc : op54039,gxx8517,1.0,,,10,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 09 17:33:30 2024
Quant Method : C:\MSDCHEM\1\METHODS\PCBXX8517.M
Quant Title :
QLast Update : Thu May 09 17:32:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

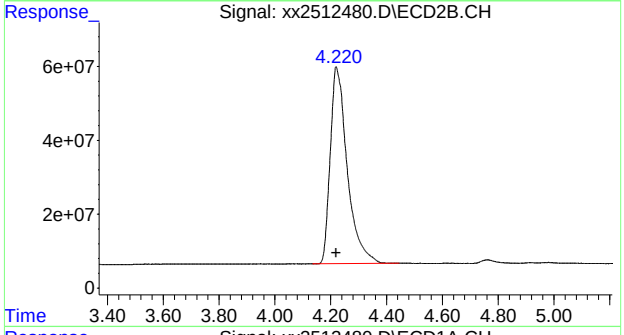






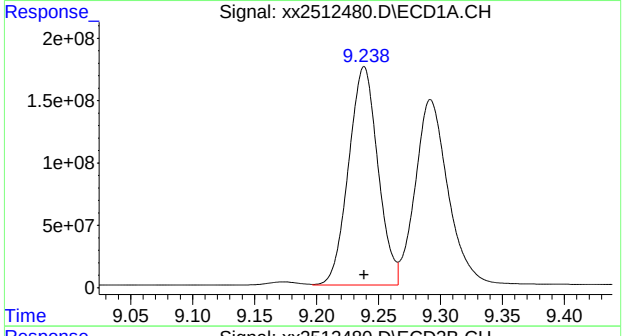
#1 Tetrachloro-m-xylene

R.T.: 3.379 min
Delta R.T.: 0.000 min
Response: 726399079
Conc: 38.89 ppb



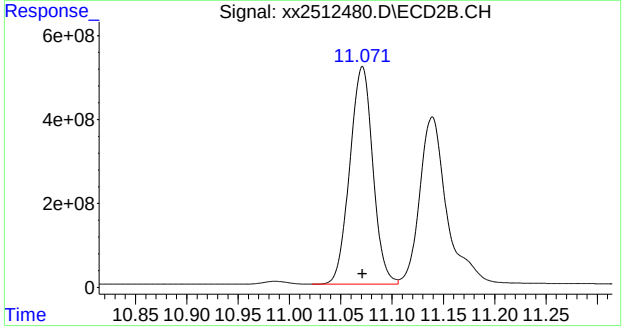
#1 Tetrachloro-m-xylene

R.T.: 4.220 min
Delta R.T.: 0.000 min
Response: 2252739230
Conc: 37.47 ppb



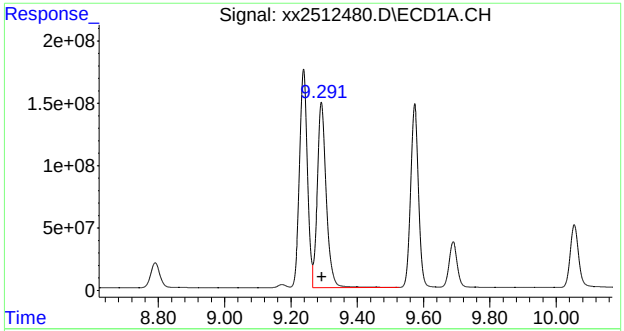
#36 AR1268-A

R.T.: 9.238 min
Delta R.T.: 0.000 min
Response: 2880095267
Conc: 1000.00 PPB



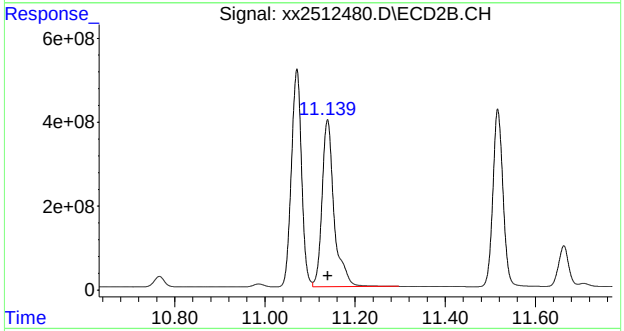
#36 AR1268-A

R.T.: 11.071 min
Delta R.T.: 0.000 min
Response: 8109191478
Conc: 1000.00 PPB



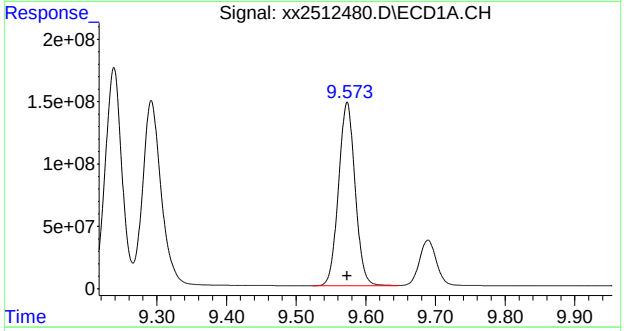
#37 AR1268-B

R.T.: 9.292 min
Delta R.T.: 0.000 min
Response: 2781300067
Conc: 1000.00 PPB



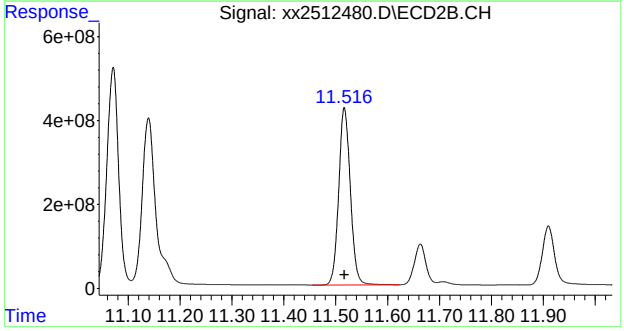
#37 AR1268-B

R.T.: 11.139 min
Delta R.T.: 0.000 min
Response: 7362949658
Conc: 1000.00 PPB



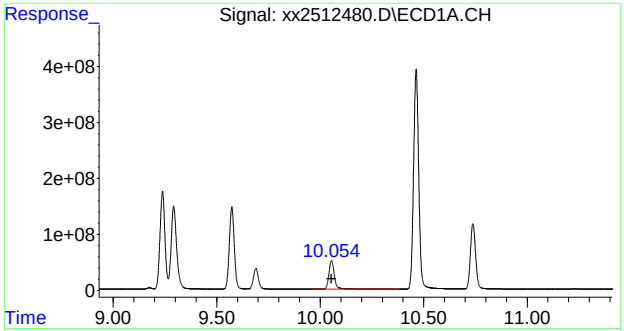
#38 AR1268-C

R.T.: 9.573 min
Delta R.T.: 0.000 min
Response: 2440040097
Conc: 1000.00 PPB



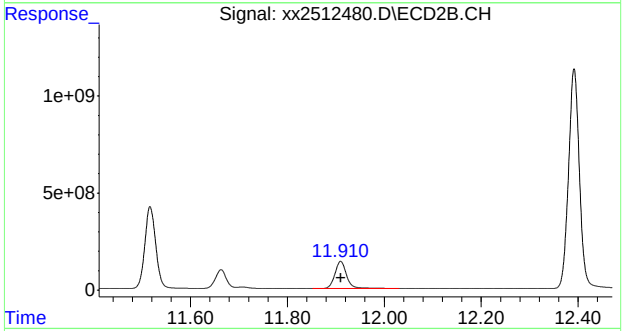
#38 AR1268-C

R.T.: 11.517 min
Delta R.T.: 0.000 min
Response: 6599683961
Conc: 1000.00 PPB



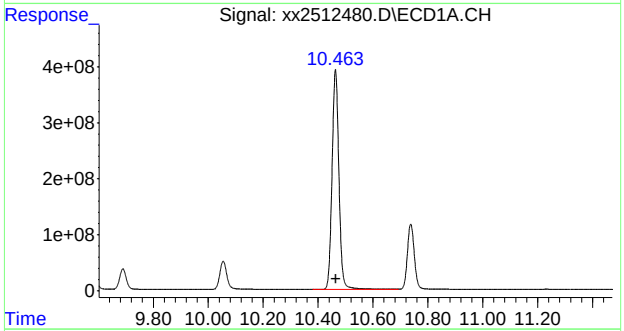
#39 AR1268-D

R.T.: 10.055 min
Delta R.T.: 0.000 min
Response: 923541356
Conc: 1000.00 PPB



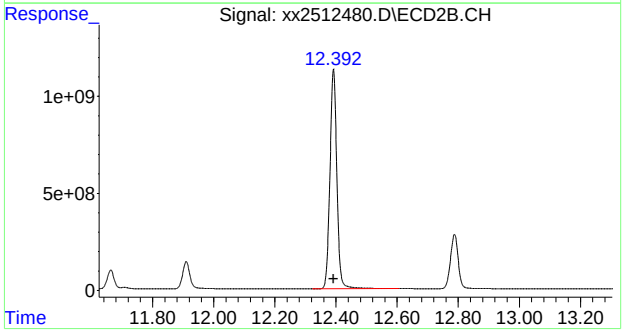
#39 AR1268-D

R.T.: 11.910 min
Delta R.T.: 0.000 min
Response: 2320792865
Conc: 1000.00 PPB



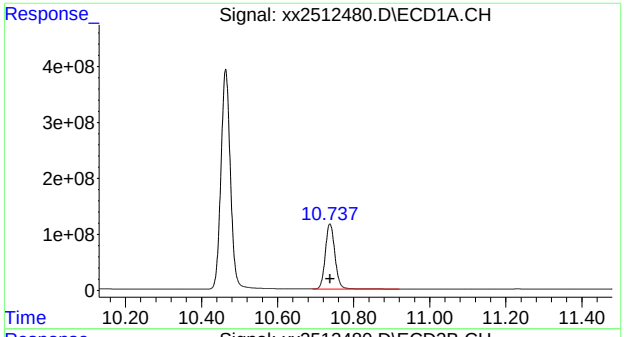
#40 AR1268-E

R.T.: 10.464 min
Delta R.T.: 0.000 min
Response: 6804434323
Conc: 1000.00 PPB



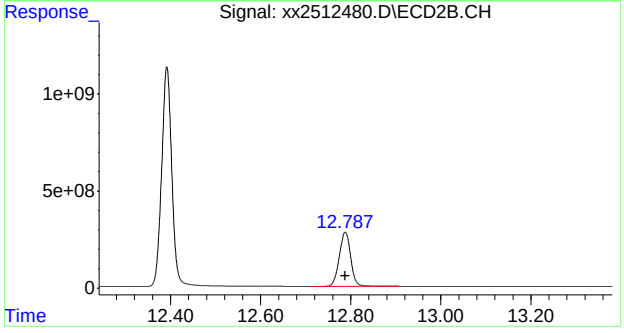
#40 AR1268-E

R.T.: 12.392 min
Delta R.T.: 0.000 min
Response: 17791528747
Conc: 1000.00 PPB



#51 Decachlorobiphenyl

R.T.: 10.738 min
Delta R.T.: 0.000 min
Response: 2052589060
Conc: 86.70 ppb



#51 Decachlorobiphenyl

R.T.: 12.788 min
Delta R.T.: 0.000 min
Response: 4894292599
Conc: 91.19 ppb

9.3.22

9

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56360
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:09	MA56360-STD1	1		b=1.8637e-004,c=6.8106e-001,rho=0.9994042
10:11	MA56360-STD2	1		STDB
10:12	MA56360-STD3	1		STDC
10:14	MA56360-STD4	1		STDD
10:15	MA56360-STD5	1		STDE
10:17	MA56360-STD6	1		STDF
10:22	MA56360-STD7	1		STDB
10:25	MA56360-STD8	1		STDB
10:27	ZZZZZZ	1		
10:29	MA56360-ICV1	1		
10:38	MA56360-ICB1	1		
10:40	MA56360-CCV1	1		
10:45	MA56360-CCB1	1		
10:53	MA56360-CRI1	1		
10:57	MP47543-MB1	1		
10:59	MP47543-B1	1		
11:00	MP47543-S1	1		
11:02	MP47543-S2	1		
11:03	JD90814-2F	1		(sample used for QC only; not part of login JD91204)
11:05	ZZZZZZ	1		
11:07	ZZZZZZ	1		
11:08	ZZZZZZ	1		
11:10	MA56360-CCV2	1		
11:14	MA56360-CCB2	1		
11:16	ZZZZZZ	1		
11:18	ZZZZZZ	1		
11:19	ZZZZZZ	1		
11:21	ZZZZZZ	1		
11:22	ZZZZZZ	1		
11:24	ZZZZZZ	1		
11:25	ZZZZZZ	1		
11:26	ZZZZZZ	1		
11:31	MA56360-CCV3	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56360
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:33	MA56360-CCB3	1		
11:36	ZZZZZZ	1		
11:37	ZZZZZZ	1		
11:39	MP47544-MB1	1		
11:41	MP47544-LB1	1		
11:42	MP47544-B1	1		
11:44	MP47544-LS1	1		
11:46	MP47544-S1	1		
11:47	MP47544-S2	1		
11:49	MA56360-CCV4	1		
11:50	MA56360-CCB4	1		
11:52	JD90829-1A	1		(sample used for QC only; not part of login JD91204)
11:54	ZZZZZZ	1		
11:55	ZZZZZZ	1		
11:57	ZZZZZZ	1		
11:58	ZZZZZZ	1		
12:00	ZZZZZZ	1		
12:02	ZZZZZZ	1		
12:03	ZZZZZZ	1		
12:05	MA56360-CCV5	1		
12:06	MA56360-CCB5	1		
12:08	ZZZZZZ	1		
12:09	ZZZZZZ	1		
12:11	ZZZZZZ	1		
12:12	ZZZZZZ	1		
12:19	MP47561-MB1	1		
12:20	MP47561-B1	1		
12:22	MP47561-S1	1		
12:23	MP47561-S2	1		
12:25	MA56360-CCV6	1		
12:27	MA56360-CCB6	1		
12:29	JD91091-1	1		(sample used for QC only; not part of login JD91204)
12:30	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56360
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:32	ZZZZZZ	1		
12:33	ZZZZZZ	1		
12:35	ZZZZZZ	1		
12:36	ZZZZZZ	1		
12:38	ZZZZZZ	1		
12:40	ZZZZZZ	1		
12:41	MA56360-CCV7	1		
12:47	MA56360-CCB7	1		
12:51	MP47562-MB1	1		
12:52	MP47562-LB1	1		
12:54	MP47562-B1	1		
12:55	MP47562-LS1	1		
12:57	MP47562-S1	1		
12:58	MP47562-S2	1		
13:00	JD91095-1	1		(sample used for QC only; not part of login JD91204)
13:02	ZZZZZZ	1		
13:03	MA56360-CCV8	1		
13:05	MA56360-CCB8	1		
13:06	ZZZZZZ	1		
13:08	ZZZZZZ	1		
13:09	ZZZZZZ	1		
13:11	ZZZZZZ	1		
13:13	ZZZZZZ	1		
13:14	ZZZZZZ	1		
13:16	ZZZZZZ	1		
13:17	ZZZZZZ	1		
13:47	MA56360-CCV9	1		
13:51	MA56360-CCB9	1		
13:54	ZZZZZZ	1		
13:56	ZZZZZZ	1		
13:58	ZZZZZZ	1		
13:59	MP47563-MB1	1		
14:01	MP47563-LB1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56360
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:02	MP47563-B1	1		
14:04	MP47563-LS1	1		
14:06	MA56360-CCV10	1		
14:08	MA56360-CCB10	1		
14:10	MP47563-S1	1		
14:11	MP47563-S2	1		
14:13	JD88226-5RU	1		(sample used for QC only; not part of login JD91204)
14:15	ZZZZZZ	1		
14:16	ZZZZZZ	1		
14:18	MA56360-CCV11	1		
14:22	MA56360-CCB11	1		
14:24	MP47597-MB1	1		
14:26	MP47597-B1	1		
14:27	MP47597-S1	1		
14:29	MP47597-S2	1		
14:31	JD91181-1	1		(sample used for QC only; not part of login JD91204)
14:32	ZZZZZZ	1		
14:34	ZZZZZZ	1		
14:35	ZZZZZZ	1		
14:40	MA56360-CCV12	1		
14:42	MA56360-CCB12	1		
14:45	ZZZZZZ	1		
14:47	ZZZZZZ	1		
14:48	JD91204-18	1		
14:50	JD91204-19	1		
14:52	ZZZZZZ	1		
14:53	ZZZZZZ	1		
14:54	ZZZZZZ	1		
14:56	MA56360-CCV13	1		
14:58	MA56360-CCB13	1		
14:59	MP47598-MB1	1		
15:01	MP47598-LB1	1		
15:02	MP47598-B1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56360
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:04	MP47598-LS1	1		
15:05	MP47598-S1	1		
15:07	MP47598-S2	1		
15:09	JD91164-1	1		(sample used for QC only; not part of login JD91204)
15:11	ZZZZZZ	1		
15:13	MA56360-CCV14	1		
15:17	MA56360-CCB14	1		
15:20	ZZZZZZ	1		
15:22	ZZZZZZ	1		
15:23	ZZZZZZ	1		
15:25	ZZZZZZ	1		
15:26	ZZZZZZ	1		
15:28	ZZZZZZ	1		
15:29	ZZZZZZ	1		
15:30	ZZZZZZ	1		
15:34	MA56360-CCV15	1		
15:37	MA56360-CCB15	1		
15:39	ZZZZZZ	1		
15:40	ZZZZZZ	1		
15:42	ZZZZZZ	1		
15:44	ZZZZZZ	1		
15:45	ZZZZZZ	1		
15:47	ZZZZZZ	1		
15:48	ZZZZZZ	1		
15:49	ZZZZZZ	1		
15:51	MA56360-CCV16	1		
15:52	MA56360-CCB16	1		
15:54	ZZZZZZ	1		
15:56	MP47507-MB1	1		
15:57	MP47507-LB1	1		
15:59	MP47507-B1	1		
16:01	MP47507-LS1	1		
16:02	MP47507-S1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56360
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:04	MP47507-S2	1		
16:06	ZZZZZZ	1		
16:07	MA56360-CCV17	1		
16:09	MA56360-CCB17	1		
16:11	ZZZZZZ	1		
16:13	ZZZZZZ	1		
16:14	ZZZZZZ	1		
16:16	ZZZZZZ	1		
16:17	ZZZZZZ	1		
16:19	MA56360-CCV18	1		
16:20	MA56360-CCB18	1		
16:23	MP47543-MB1	1		
16:28	MP47561-PS	1		
16:29	MP47562-LB1	1		
16:31	MP47597-MB1	1		
16:33	MP47597-B1	1		
16:34	MP47597-PS	1		
---------->	Last reportable sample/prep for job JD91204			
16:36	MA56360-CCV19	1		
16:38	MA56360-CCB19	1		
---------->	Last reportable CCB for job JD91204			
16:43	MP47598-B1	1		
16:44	MP47598-LS1	1		
16:49	MP47544-B1	1		
16:51	MP47598-MB1	1		
16:53	MP47598-LB1	1		
17:12	MP47507-LB1	1		
17:27	MA56360-CCV20	1		
17:30	MA56360-CCB20	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56360
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
10:27	ZZZZZZ	1		
10:29	MA56360-ICV1	1	X	
10:38	MA56360-ICB1	1	X	
10:40	MA56360-CCV1	1	X	
10:45	MA56360-CCB1	1	X	
10:53	MA56360-CRI1	1	X	
10:57	MP47543-MB1	1		
10:59	MP47543-B1	1	X	
11:00	MP47543-S1	1	X	
11:02	MP47543-S2	1	X	
11:03	JD90814-2F	1	X	(a)
11:05	ZZZZZZ	1		
11:07	ZZZZZZ	1		
11:08	ZZZZZZ	1		
11:10	MA56360-CCV2	1	X	
11:14	MA56360-CCB2	1	X	
11:16	ZZZZZZ	1		
11:18	ZZZZZZ	1		
11:19	ZZZZZZ	1		
11:21	ZZZZZZ	1		
11:22	ZZZZZZ	1		
11:24	ZZZZZZ	1		
11:25	ZZZZZZ	1		
11:26	ZZZZZZ	1		
11:31	MA56360-CCV3	1	X	
11:33	MA56360-CCB3	1	X	
11:36	ZZZZZZ	1		
11:37	ZZZZZZ	1		
11:39	MP47544-MB1	1	X	
11:41	MP47544-LB1	1		
11:42	MP47544-B1	1		
11:44	MP47544-LS1	1	X	
11:46	MP47544-S1	1	X	
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56360
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
11:47	MP47544-S2	1	X	
11:49	MA56360-CCV4	1	X	
11:50	MA56360-CCB4	1	X	
11:52	JD90829-1A	1	X	(a)
11:54	ZZZZZZ	1		
11:55	ZZZZZZ	1		
11:57	ZZZZZZ	1		
11:58	ZZZZZZ	1		
12:00	ZZZZZZ	1		
12:02	ZZZZZZ	1		
12:03	ZZZZZZ	1		
12:05	MA56360-CCV5	1	X	
12:06	MA56360-CCB5	1	X	
12:08	ZZZZZZ	1		
12:09	ZZZZZZ	1		
12:11	ZZZZZZ	1		
12:12	ZZZZZZ	1		
12:19	MP47561-MB1	1	X	
12:20	MP47561-B1	1	X	
12:22	MP47561-S1	1	X	
12:23	MP47561-S2	1	X	
12:25	MA56360-CCV6	1	X	
12:27	MA56360-CCB6	1	X	
12:29	JD91091-1	1	X	(a)
12:30	ZZZZZZ	1		
12:32	ZZZZZZ	1		
12:33	ZZZZZZ	1		
12:35	ZZZZZZ	1		
12:36	ZZZZZZ	1		
12:38	ZZZZZZ	1		
12:40	ZZZZZZ	1		
12:41	MA56360-CCV7	1	X	
12:47	MA56360-CCB7	1	X	
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56360
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
12:51	MP47562-MB1	1	X	
12:52	MP47562-LB1	1		
12:54	MP47562-B1	1	X	
12:55	MP47562-LS1	1	X	
12:57	MP47562-S1	1	X	
12:58	MP47562-S2	1	X	
13:00	JD91095-1	1	X	(a)
13:02	ZZZZZZ	1		
13:03	MA56360-CCV8	1	X	
13:05	MA56360-CCB8	1	X	
13:06	ZZZZZZ	1		
13:08	ZZZZZZ	1		
13:09	ZZZZZZ	1		
13:11	ZZZZZZ	1		
13:13	ZZZZZZ	1		
13:14	ZZZZZZ	1		
13:16	ZZZZZZ	1		
13:17	ZZZZZZ	1		
13:47	MA56360-CCV9	1	X	
13:51	MA56360-CCB9	1	X	
13:54	ZZZZZZ	1		
13:56	ZZZZZZ	1		
13:58	ZZZZZZ	1		
13:59	MP47563-MB1	1	X	
14:01	MP47563-LB1	1		
14:02	MP47563-B1	1	X	
14:04	MP47563-LS1	1	X	
14:06	MA56360-CCV10	1	X	
14:08	MA56360-CCB10	1	X	
14:10	MP47563-S1	1	X	
14:11	MP47563-S2	1	X	
14:13	JD88226-5RU	1	X	(a)
14:15	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56360
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
14:16	ZZZZZZ	1		
14:18	MA56360-CCV11	1	X	
14:22	MA56360-CCB11	1	X	
14:24	MP47597-MB1	1		
14:26	MP47597-B1	1		
14:27	MP47597-S1	1	X	
14:29	MP47597-S2	1	X	
14:31	JD91181-1	1	X	(a)
14:32	ZZZZZZ	1		
14:34	ZZZZZZ	1		
14:35	ZZZZZZ	1		
14:40	MA56360-CCV12	1	X	
14:42	MA56360-CCB12	1	X	
14:45	ZZZZZZ	1		
14:47	ZZZZZZ	1		
14:48	JD91204-18	1	X	
14:50	JD91204-19	1	X	
14:52	ZZZZZZ	1		
14:53	ZZZZZZ	1		
14:54	ZZZZZZ	1		
14:56	MA56360-CCV13	1	X	
14:58	MA56360-CCB13	1	X	
14:59	MP47598-MB1	1		
15:01	MP47598-LB1	1		
15:02	MP47598-B1	1		
15:04	MP47598-LS1	1		
15:05	MP47598-S1	1	X	
15:07	MP47598-S2	1	X	
15:09	JD91164-1	1	X	(a)
15:11	ZZZZZZ	1		
15:13	MA56360-CCV14	1	X	
15:17	MA56360-CCB14	1	X	
15:20	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56360
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg
15:22	ZZZZZZ	1	
15:23	ZZZZZZ	1	
15:25	ZZZZZZ	1	
15:26	ZZZZZZ	1	
15:28	ZZZZZZ	1	
15:29	ZZZZZZ	1	
15:30	ZZZZZZ	1	
15:34	MA56360-CCV15	1	X
15:37	MA56360-CCB15	1	X
15:39	ZZZZZZ	1	
15:40	ZZZZZZ	1	
15:42	ZZZZZZ	1	
15:44	ZZZZZZ	1	
15:45	ZZZZZZ	1	
15:47	ZZZZZZ	1	
15:48	ZZZZZZ	1	
15:49	ZZZZZZ	1	
15:51	MA56360-CCV16	1	X
15:52	MA56360-CCB16	1	X
15:54	ZZZZZZ	1	
15:56	MP47507-MB1	1	X
15:57	MP47507-LB1	1	
15:59	MP47507-B1	1	X
16:01	MP47507-LS1	1	X
16:02	MP47507-S1	1	X
16:04	MP47507-S2	1	X
16:06	ZZZZZZ	1	
16:07	MA56360-CCV17	1	X
16:09	MA56360-CCB17	1	X
16:11	ZZZZZZ	1	
16:13	ZZZZZZ	1	
16:14	ZZZZZZ	1	
16:16	ZZZZZZ	1	
		Element:	Hg

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
Analyst: MK Run ID: MA56360
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg
16:17	ZZZZZZ	1	
16:19	MA56360-CCV18	1	X
16:20	MA56360-CCB18	1	X
16:23	MP47543-MB1	1	X
16:28	MP47561-PS	1	X
16:29	MP47562-LB1	1	
16:31	MP47597-MB1	1	X
16:33	MP47597-B1	1	X
16:34	MP47597-PS	1	X
16:36	MA56360-CCV19	1	X
16:38	MA56360-CCB19	1	X
16:43	MP47598-B1	1	X
16:44	MP47598-LS1	1	X
16:49	MP47544-B1	1	X
16:51	MP47598-MB1	1	X
16:53	MP47598-LB1	1	
17:12	MP47507-LB1	1	
17:27	MA56360-CCV20	1	X
17:30	MA56360-CCB20	1	X

(a) Sample used for QC only; not part of login JD91204.

Element: Hg

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56360 Units: ug/l

Time:			10:38		10:45		11:14		11:33	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.04	-0.0350	<0.20	-0.117	<0.20	-0.0769	<0.20	0.0241	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56360 Units: ug/l

Time:			11:50		12:06		12:27		12:47	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.04	-0.0424	<0.20	-0.125	<0.20	-0.0229	<0.20	0.168	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56360 Units: ug/l

Time:			13:05		13:51		14:08		14:22	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.04	-0.0106	<0.20	0.0539	<0.20	0.0545	<0.20	-0.101	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56360 Units: ug/l

Time:			14:42		14:58		15:17		15:37	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.04	0.0817	<0.20	0.0578	<0.20	-0.0311	<0.20	0.147	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56360 Units: ug/l

Time:			15:52		16:09		16:20		16:38	
Sample ID:			CCB16		CCB17		CCB18		CCB19	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.04	-0.0333	<0.20	0.0332	<0.20	-0.0285	<0.20	-0.00240	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56360 Units: ug/l

Time:		10:29			10:40			11:10	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	3.01	100.3	2.5	2.60	104.0	2.5	2.31	92.4

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56360 Units: ug/l

Time:		11:31			11:49			12:05	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.60	104.0	2.5	2.45	98.0	2.5	2.61	104.4

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56360 Units: ug/l

Time:		12:25			12:41			13:03	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.49	99.6	2.5	2.62	104.8	2.5	2.68	107.2

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56360 Units: ug/l

Time:		13:47			14:06			14:18	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.29	91.6	2.5	2.40	96.0	2.5	2.43	97.2

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56360 Units: ug/l

Time:		14:40			14:56			15:13	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.33	93.2	2.5	2.27	90.8	2.5	2.31	92.4

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56360 Units: ug/l

Time:		15:34			15:51			16:07	
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.65	106.0	2.5	2.58	103.2	2.5	2.53	101.2

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56360 Units: ug/l

Time:		16:19			16:36	
Sample ID:	CCV	CCV18		CCV	CCV19	
Metal	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.56	102.4	2.5	2.37	94.8

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070124W1.CSV Date Analyzed: 07/01/24 Methods: SW846 7470A
QC Limits: 70 to 130 % Recovery Run ID: MA56360 Units: ug/l

Time:			10:53	
Sample ID:	CRI	CRIA	CRI1	
Metal	True	True	Results	% Rec
Mercury	0.20		0.151	75.5

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
Analyst: MK Run ID: MA56369
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:35	MA56369-STD1	1		b=1.0818e-004,c=2.6370e-001,rh0=0.9980033
09:36	MA56369-STD2	1		STDB
09:38	MA56369-STD3	1		STDC
09:39	MA56369-STD4	1		STDD
09:41	MA56369-STD5	1		STDE
09:42	MA56369-STD6	1		STDF
09:55	MA56369-STD7	1		STDC
10:03	ZZZZZZ	1		
10:05	MA56369-ICV1	1		
10:21	MA56369-ICB1	1		
10:22	MA56369-CCV1	1		
10:24	MA56369-CCB1	1		
10:26	MA56369-CRI1	1		
10:28	MP47567-MB1	1		
10:30	MP47567-B1	1		
10:32	MP47567-S1	1		
10:34	MP47567-S2	1		
10:36	JD91112-1	1		(sample used for QC only; not part of login JD91204)
10:38	ZZZZZZ	1		
10:40	ZZZZZZ	1		
10:41	ZZZZZZ	1		
10:43	MA56369-CCV2	1		
10:44	MA56369-CCB2	1		
10:46	ZZZZZZ	1		
10:48	ZZZZZZ	1		
10:50	ZZZZZZ	1		
10:51	ZZZZZZ	1		
10:53	ZZZZZZ	1		
10:54	ZZZZZZ	1		
10:56	ZZZZZZ	1		
10:57	ZZZZZZ	1		
10:59	MA56369-CCV3	1		
11:00	MA56369-CCB3	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
Analyst: MK Run ID: MA56369
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:03	ZZZZZZ	1		
11:04	ZZZZZZ	1		
11:05	ZZZZZZ	1		
11:07	ZZZZZZ	1		
11:09	ZZZZZZ	1		
11:10	ZZZZZZ	1		
11:12	ZZZZZZ	1		
11:14	ZZZZZZ	1		
11:15	MA56369-CCV4	1		
11:17	MA56369-CCB4	1		
11:18	MP47569-MB1	1		
11:20	MP47569-B1	1		
11:21	MP47569-S1	1		
11:23	MP47569-S2	1		
11:25	JD91096-2	1		(sample used for QC only; not part of login JD91204)
11:27	ZZZZZZ	1		
11:29	ZZZZZZ	1		
11:31	ZZZZZZ	1		
11:33	MA56369-CCV5	1		
11:34	MA56369-CCB5	1		
11:36	ZZZZZZ	1		
11:38	ZZZZZZ	1		
11:40	ZZZZZZ	1		
11:42	ZZZZZZ	1		
11:43	ZZZZZZ	1		
11:45	ZZZZZZ	1		
11:47	ZZZZZZ	1		
11:49	ZZZZZZ	1		
11:50	MA56369-CCV6	1		
11:52	MA56369-CCB6	1		
11:54	ZZZZZZ	1		
11:55	ZZZZZZ	1		
11:57	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
Analyst: MK Run ID: MA56369
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:58	ZZZZZZ	1		
12:00	ZZZZZZ	1		
12:02	ZZZZZZ	1		
12:03	ZZZZZZ	1		
12:06	ZZZZZZ	1		
12:07	MA56369-CCV7	1		
12:09	MA56369-CCB7	1		
12:11	MP47570-MB1	1		
12:12	MP47570-B1	1		
12:14	MP47570-S1	1		
12:16	MP47570-S2	1		
12:22	JD91165-1	1		(sample used for QC only; not part of login JD91204)
12:24	ZZZZZZ	1		
12:25	ZZZZZZ	1		
12:27	ZZZZZZ	1		
12:29	MA56369-CCV8	1		
12:30	MA56369-CCB8	1		
12:32	ZZZZZZ	1		
12:34	ZZZZZZ	1		
12:35	ZZZZZZ	1		
12:37	ZZZZZZ	1		
12:38	ZZZZZZ	1		
12:40	ZZZZZZ	1		
12:41	ZZZZZZ	1		
12:43	ZZZZZZ	1		
12:45	MA56369-CCV9	1		
12:46	MA56369-CCB9	1		
12:48	ZZZZZZ	1		
12:50	ZZZZZZ	1		
12:52	ZZZZZZ	1		
12:53	ZZZZZZ	1		
12:55	ZZZZZZ	1		
12:56	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
Analyst: MK Run ID: MA56369
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:58	ZZZZZZ	1		
12:59	ZZZZZZ	1		
13:01	MA56369-CCV10	1		
13:02	MA56369-CCB10	1		
13:06	MP47595-MB1	1		
13:07	MP47595-B1	1		
13:09	MP47595-S1	1		
13:10	MP47595-S2	1		
13:12	JD91204-1	1		
13:14	JD91204-2	1		
13:16	JD91204-3	1		
13:17	JD91204-4	1		
13:19	MA56369-CCV11	1		
13:21	MA56369-CCB11	1		
13:23	JD91204-5	1		
13:24	JD91204-6	1		
13:26	JD91204-7	1		
13:28	JD91204-8	1		
13:29	JD91204-9	1		
13:31	JD91204-10	1		
13:33	JD91204-11	1		
13:34	JD91204-12	1		
13:36	MA56369-CCV12	1		
13:37	MA56369-CCB12	1		
13:39	JD91204-13	1		
13:41	JD91204-14	1		
13:43	JD91204-15	1		
13:44	JD91204-16	1		
13:46	JD91204-17	1		
---------->	Last reportable sample/prep for job JD91204			
13:48	ZZZZZZ	1		
13:49	ZZZZZZ	1		
13:51	ZZZZZZ	1		
13:52	MA56369-CCV13	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
Analyst: MK Run ID: MA56369
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:54	MA56369-CCB13	1		
---------->	Last reportable CCB for job JD91204			
13:56	MP47596-MB1	1		
13:57	MP47596-B1	1		
13:58	MP47596-S1	1		
14:00	MP47596-S2	1		
14:02	JD91220-3	1		(sample used for QC only; not part of login JD91204)
14:04	ZZZZZZ	1		
14:05	ZZZZZZ	1		
14:07	ZZZZZZ	1		
14:12	MA56369-CCV14	1		
14:14	MA56369-CCB14	1		
14:18	ZZZZZZ	1		
14:19	ZZZZZZ	1		
14:21	ZZZZZZ	1		
14:22	ZZZZZZ	1		
14:24	ZZZZZZ	1		
14:26	ZZZZZZ	1		
14:27	ZZZZZZ	1		
14:29	ZZZZZZ	1		
14:31	MA56369-CCV15	1		
14:36	MA56369-CCB15	1		
14:41	MP47567-MB1	1		
14:45	MP47569-S1	2		
14:47	MP47569-S2	2		
14:48	ZZZZZZ	2		
14:50	MP47570-MB1	1		
14:52	MP47596-PS	1		
14:54	MP47567-PS	1		
14:55	MA56369-CCV16	1		
14:57	MA56369-CCB16	1		
14:59	MP47596-PS	1		
15:03	MA56369-CCV17	1		
15:05	MA56369-CCB17	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
Analyst: MK Run ID: MA56369
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
10:03	ZZZZZZ	1		
10:05	MA56369-ICV1	1	X	
10:21	MA56369-ICB1	1	X	
10:22	MA56369-CCV1	1	X	
10:24	MA56369-CCB1	1	X	
10:26	MA56369-CRI1	1	X	
10:28	MP47567-MB1	1		
10:30	MP47567-B1	1	X	
10:32	MP47567-S1	1	X	
10:34	MP47567-S2	1	X	
10:36	JD91112-1	1	X	(a)
10:38	ZZZZZZ	1		
10:40	ZZZZZZ	1		
10:41	ZZZZZZ	1		
10:43	MA56369-CCV2	1	X	
10:44	MA56369-CCB2	1	X	
10:46	ZZZZZZ	1		
10:48	ZZZZZZ	1		
10:50	ZZZZZZ	1		
10:51	ZZZZZZ	1		
10:53	ZZZZZZ	1		
10:54	ZZZZZZ	1		
10:56	ZZZZZZ	1		
10:57	ZZZZZZ	1		
10:59	MA56369-CCV3	1	X	
11:00	MA56369-CCB3	1	X	
11:03	ZZZZZZ	1		
11:04	ZZZZZZ	1		
11:05	ZZZZZZ	1		
11:07	ZZZZZZ	1		
11:09	ZZZZZZ	1		
11:10	ZZZZZZ	1		
11:12	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
Analyst: MK Run ID: MA56369
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
11:14	ZZZZZZ	1		
11:15	MA56369-CCV4	1	X	
11:17	MA56369-CCB4	1	X	
11:18	MP47569-MB1	1	X	
11:20	MP47569-B1	1	X	
11:21	MP47569-S1	1		
11:23	MP47569-S2	1		
11:25	JD91096-2	1	X	(a)
11:27	ZZZZZZ	1		
11:29	ZZZZZZ	1		
11:31	ZZZZZZ	1		
11:33	MA56369-CCV5	1	X	
11:34	MA56369-CCB5	1	X	
11:36	ZZZZZZ	1		
11:38	ZZZZZZ	1		
11:40	ZZZZZZ	1		
11:42	ZZZZZZ	1		
11:43	ZZZZZZ	1		
11:45	ZZZZZZ	1		
11:47	ZZZZZZ	1		
11:49	ZZZZZZ	1		
11:50	MA56369-CCV6	1	X	
11:52	MA56369-CCB6	1	X	
11:54	ZZZZZZ	1		
11:55	ZZZZZZ	1		
11:57	ZZZZZZ	1		
11:58	ZZZZZZ	1		
12:00	ZZZZZZ	1		
12:02	ZZZZZZ	1		
12:03	ZZZZZZ	1		
12:06	ZZZZZZ	1		
12:07	MA56369-CCV7	1	X	
12:09	MA56369-CCB7	1	X	
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
Analyst: MK Run ID: MA56369
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
12:11	MP47570-MB1	1		
12:12	MP47570-B1	1	X	
12:14	MP47570-S1	1	X	
12:16	MP47570-S2	1	X	
12:22	JD91165-1	1	X	(a)
12:24	ZZZZZZ	1		
12:25	ZZZZZZ	1		
12:27	ZZZZZZ	1		
12:29	MA56369-CCV8	1	X	
12:30	MA56369-CCB8	1	X	
12:32	ZZZZZZ	1		
12:34	ZZZZZZ	1		
12:35	ZZZZZZ	1		
12:37	ZZZZZZ	1		
12:38	ZZZZZZ	1		
12:40	ZZZZZZ	1		
12:41	ZZZZZZ	1		
12:43	ZZZZZZ	1		
12:45	MA56369-CCV9	1	X	
12:46	MA56369-CCB9	1	X	
12:48	ZZZZZZ	1		
12:50	ZZZZZZ	1		
12:52	ZZZZZZ	1		
12:53	ZZZZZZ	1		
12:55	ZZZZZZ	1		
12:56	ZZZZZZ	1		
12:58	ZZZZZZ	1		
12:59	ZZZZZZ	1		
13:01	MA56369-CCV10	1	X	
13:02	MA56369-CCB10	1	X	
13:06	MP47595-MB1	1	X	
13:07	MP47595-B1	1	X	
13:09	MP47595-S1	1	X	
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
Analyst: MK Run ID: MA56369
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
13:10	MP47595-S2	1	X	
13:12	JD91204-1	1	X	
13:14	JD91204-2	1	X	
13:16	JD91204-3	1	X	
13:17	JD91204-4	1	X	
13:19	MA56369-CCV11	1	X	
13:21	MA56369-CCB11	1	X	
13:23	JD91204-5	1	X	
13:24	JD91204-6	1	X	
13:26	JD91204-7	1	X	
13:28	JD91204-8	1	X	
13:29	JD91204-9	1	X	
13:31	JD91204-10	1	X	
13:33	JD91204-11	1	X	
13:34	JD91204-12	1	X	
13:36	MA56369-CCV12	1	X	
13:37	MA56369-CCB12	1	X	
13:39	JD91204-13	1	X	
13:41	JD91204-14	1	X	
13:43	JD91204-15	1	X	
13:44	JD91204-16	1	X	
13:46	JD91204-17	1	X	
13:48	ZZZZZZ	1		
13:49	ZZZZZZ	1		
13:51	ZZZZZZ	1		
13:52	MA56369-CCV13	1	X	
13:54	MA56369-CCB13	1	X	
13:56	MP47596-MB1	1	X	
13:57	MP47596-B1	1	X	
13:58	MP47596-S1	1	X	
14:00	MP47596-S2	1	X	
14:02	JD91220-3	1	X	(a)
14:04	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
Analyst: MK Run ID: MA56369
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg
14:05	ZZZZZZ	1	
14:07	ZZZZZZ	1	
14:12	MA56369-CCV14	1	X
14:14	MA56369-CCB14	1	X
14:18	ZZZZZZ	1	
14:19	ZZZZZZ	1	
14:21	ZZZZZZ	1	
14:22	ZZZZZZ	1	
14:24	ZZZZZZ	1	
14:26	ZZZZZZ	1	
14:27	ZZZZZZ	1	
14:29	ZZZZZZ	1	
14:31	MA56369-CCV15	1	X
14:36	MA56369-CCB15	1	X
14:41	MP47567-MB1	1	X
14:45	MP47569-S1	2	X
14:47	MP47569-S2	2	X
14:48	ZZZZZZ	2	
14:50	MP47570-MB1	1	X
14:52	MP47596-PS	1	
14:54	MP47567-PS	1	X
14:55	MA56369-CCV16	1	X
14:57	MA56369-CCB16	1	X
14:59	MP47596-PS	1	X
15:03	MA56369-CCV17	1	X
15:05	MA56369-CCB17	1	X

(a) Sample used for QC only; not part of login JD91204.

Element: Hg

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA56369 Units: ug/l

Time:			10:21		10:24		10:44		11:00	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.013	-0.0883	<0.20	-0.127	<0.20	-0.122	<0.20	-0.156	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA56369 Units: ug/l

Time:			11:17		11:34		11:52		12:09	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.013	-0.156	<0.20	-0.162	<0.20	-0.101	<0.20	-0.153	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA56369 Units: ug/l

Time:			12:30		12:46		13:02		13:21	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.013	-0.130	<0.20	-0.131	<0.20	-0.151	<0.20	-0.132	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA56369 Units: ug/l

Time:			13:37		13:54	
Sample ID:			CCB12		CCB13	
Metal	RL	IDL	raw	final	raw	final
Mercury	0.20	.013	-0.120	<0.20	-0.169	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA56369 Units: ug/l

Time:		10:05			10:22			10:43	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	3.18	106.0	2.5	2.74	109.6	2.5	2.57	102.8

(*) Outside of QC limits
(anr) Analyte not requested

10.2.3 10

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA56369 Units: ug/l

Time:		10:59			11:15			11:33	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.61	104.4	2.5	2.47	98.8	2.5	2.54	101.6

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA56369 Units: ug/l

Time:		11:50			12:07			12:29	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.57	102.8	2.5	2.55	102.0	2.5	2.50	100.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA56369 Units: ug/l

Time:		12:45			13:01			13:19	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.53	101.2	2.5	2.54	101.6	2.5	2.49	99.6

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA56369 Units: ug/l

Time:		13:36			13:52	
Sample ID:	CCV	CCV12		CCV	CCV13	
Metal	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.54	101.6	2.5	2.47	98.8

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070124S1.CSV Date Analyzed: 07/01/24 Methods: SW846 7471B
QC Limits: 70 to 130 % Recovery Run ID: MA56369 Units: ug/l

Time:			10:26	
Sample ID:	CRI	CRIA	CRI1	
Metal	True	True	Results	% Rec
Mercury	0.20		0.165	82.5

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
Analyst: MM Run ID: MA56386
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:24	MA56386-STD1	1		STDA
15:28	MA56386-STD2	1		STDB
15:34	MA56386-ICV1	1		
15:40	MA56386-ICB1	1		
15:45	MA56386-CCV1	1		
15:50	MA56386-CCB1	1		
15:55	MA56386-CRI1	1		
16:00	MA56386-CRID1	1		
16:05	MA56386-ICSA1	1		
16:10	MA56386-ICSAB1	1		
16:15	ZZZZZZ	1		
16:20	MA56386-HSTD1	1		
16:27	MA56386-HSTD2	1		
16:33	MA56386-CCV2	1		
16:39	MA56386-CCB2	1		
16:44	MP47560-B1	1		
16:49	MP47560-S1	1		
16:54	MP47560-S2	1		
16:59	JD91177-6	1		(sample used for QC only; not part of login JD91204)
17:04	MP47560-SD1	5		
17:09	ZZZZZZ	1		
17:14	ZZZZZZ	1		
17:19	ZZZZZZ	1		
17:24	ZZZZZZ	1		
17:30	ZZZZZZ	1		
17:35	MA56386-CCV3	1		
17:40	MA56386-CCB3	1		
17:45	MP47560-S1	1		
17:50	MP47560-MB1	1		
17:55	ZZZZZZ	1		
18:00	MP47559-MB1	1		
18:05	MA56386-CRI2	1		
18:10	MA56386-CRID2	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
Analyst: MM Run ID: MA56386
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:15	MA56386-ICSA2	1		
18:20	MA56386-ICSAB2	1		
18:25	ZZZZZZ	1		
18:30	ZZZZZZ	1		
18:35	ZZZZZZ	1		
18:40	MA56386-CCV4	1		
18:45	MA56386-CCB4	1		
18:50	ZZZZZZ	1		
18:55	ZZZZZZ	1		
19:00	ZZZZZZ	1		
19:05	ZZZZZZ	5		
19:10	ZZZZZZ	5		
19:15	MP47542-S1	5		
19:20	MP47542-S2	5		
19:25	JD90829-1A	5		(sample used for QC only; not part of login JD91204)
19:30	MP47542-SD1	25		
19:35	ZZZZZZ	5		
19:40	MA56386-CCV5	1		
19:45	MA56386-CCB5	1		
19:50	ZZZZZZ	5		
19:56	ZZZZZZ	5		
20:01	MP47559-B1	1		
20:06	MP47559-LC1	1		
20:11	MP47559-LC2	1		
20:16	MP47559-S1	1		
20:21	MP47559-S2	1		
20:26	JD91175-1	1		(sample used for QC only; not part of login JD91204)
20:31	MP47559-SD1	5		
20:36	MP47559-PS1	1		
20:41	MA56386-CCV6	1		
20:46	MA56386-CCB6	1		
20:51	ZZZZZZ	1		
20:56	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
Analyst: MM Run ID: MA56386
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:01	ZZZZZZ	1		
21:05	ZZZZZZ	1		
21:10	ZZZZZZ	1		
21:15	ZZZZZZ	1		
21:20	ZZZZZZ	1		
21:25	ZZZZZZ	1		
21:29	MP47559-LC1	5		
21:34	MP47559-LC2	5		
21:39	MA56386-CCV7	1		
21:44	MA56386-CCB7	1		
21:49	ZZZZZZ	1		
21:54	ZZZZZZ	1		
21:59	ZZZZZZ	1		
22:04	ZZZZZZ	1		
22:09	ZZZZZZ	1		
22:14	ZZZZZZ	1		
22:19	ZZZZZZ	1		
22:24	ZZZZZZ	1		
22:29	ZZZZZZ	1		
22:34	MA56386-CCV8	1		
22:39	MA56386-CCB8	1		
22:44	MP47579-MB1	1		ISTD saturation
22:49	MP47579-B1	1		
22:54	MP47579-S1	1		
22:59	MP47579-S2	1		
23:04	JD91272-1	1		(sample used for QC only; not part of login JD91204)
23:09	MP47579-SD1	5		
23:14	MP47579-PS1	1		
23:19	ZZZZZZ	1		
23:24	ZZZZZZ	1		
23:29	ZZZZZZ	1		
23:34	MA56386-CCV9	1		
23:39	MA56386-CCB9	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
Analyst: MM Run ID: MA56386
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
23:44	ZZZZZZ	1		
23:49	ZZZZZZ	1		
23:55	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:05	ZZZZZZ	1		
00:10	ZZZZZZ	1		
00:15	ZZZZZZ	1		
00:20	ZZZZZZ	1		
00:25	ZZZZZZ	1		
00:30	ZZZZZZ	1		
00:35	MA56386-CCV10	1		
00:41	MA56386-CCB10	1		
00:46	ZZZZZZ	1		
00:51	ZZZZZZ	1		
00:56	ZZZZZZ	1		
01:01	ZZZZZZ	1		
01:06	ZZZZZZ	1		
01:11	ZZZZZZ	1		
01:16	MP47574-B1	1		
01:21	MP47574-MB1	1		
01:26	MP47574-S1	1		ISTD saturation
01:31	MP47574-S2	1		ISTD saturation
01:36	MA56386-CCV11	1		
01:41	MA56386-CCB11	1		
01:46	JD91222-1	1		(sample used for QC only; not part of login JD91204)
01:52	MP47574-SD1	5		
01:57	JD91204-18	1		
02:01	JD91204-19	1		
---------->	Last reportable sample/prep for job JD91204			
02:06	ZZZZZZ	1		
02:12	ZZZZZZ	1		
02:17	ZZZZZZ	1		
02:22	ZZZZZZ	1		
02:27	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
Analyst: MM Run ID: MA56386
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	02:32	ZZZZZZ	1		
	02:37	MA56386-CCV12	1		
	02:42	MA56386-CCB12	1		
---------->		Last reportable CCB for job JD91204			
	02:47	ZZZZZZ	1		
	02:53	ZZZZZZ	1		
	02:58	ZZZZZZ	1		
	03:03	ZZZZZZ	1		
	03:08	ZZZZZZ	1		
	03:13	ZZZZZZ	1		
	03:18	MP47568-B1	1		
	03:24	MP47568-MB1	1		
	03:29	MP47568-S1	1		ca, na high
	03:34	MP47568-S2	1		ca, na high
	03:39	MA56386-CCV13	1		
	03:44	MA56386-CCB13	1		
	03:49	JD91181-1	1		(sample used for QC only; not part of login JD91204)
	03:55	MP47568-SD1	5		ca, na high
	04:00	ZZZZZZ	1		
	04:05	ZZZZZZ	1		
	04:10	ZZZZZZ	1		
	04:15	ZZZZZZ	1		
	04:20	ZZZZZZ	1		
	04:25	ZZZZZZ	1		
	04:30	ZZZZZZ	1		
	04:35	ZZZZZZ	1		
	04:40	MA56386-CCV14	1		
	04:45	MA56386-CCB14	1		
	04:50	ZZZZZZ	1		
	04:55	ZZZZZZ	1		
	05:00	ZZZZZZ	1		
	05:05	ZZZZZZ	1		
	05:10	ZZZZZZ	1		
	05:15	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
Analyst: MM Run ID: MA56386
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
05:20	ZZZZZZ	1		
05:25	MA56386-CCV15	1		
05:31	MA56386-CCB15	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
Analyst: MM Run ID: MA56386
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
15:34	MA56386-ICV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
15:40	MA56386-ICB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
15:45	MA56386-CCV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
15:50	MA56386-CCB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
15:55	MA56386-CRI1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:00	MA56386-CRID1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:05	MA56386-ICSA1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:10	MA56386-ICSAB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:15	ZZZZZZ	1																							
16:20	MA56386-HSTD1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:27	MA56386-HSTD2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:33	MA56386-CCV2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:39	MA56386-CCB2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:44	MP47560-B1	1												X											
16:49	MP47560-S1	1																							
16:54	MP47560-S2	1												X											
16:59	JD91177-6	1												X											(a)
17:04	MP47560-SD1	5												X											
17:09	ZZZZZZ	1																							
17:14	ZZZZZZ	1																							
17:19	ZZZZZZ	1																							
17:24	ZZZZZZ	1																							
17:30	ZZZZZZ	1																							
17:35	MA56386-CCV3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:40	MA56386-CCB3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:45	MP47560-S1	1												X											
17:50	MP47560-MB1	1												X											
17:55	ZZZZZZ	1																							
18:00	MP47559-MB1	1		X	X	X	X	X		X				X			X		X	X		X	X	X	
18:05	MA56386-CRI2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:10	MA56386-CRID2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:15	MA56386-ICSA2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:20	MA56386-ICSAB2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
Analyst: MM Run ID: MA56386
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
18:25	ZZZZZZ	1																							
18:30	ZZZZZZ	1																							
18:35	ZZZZZZ	1																							
18:40	MA56386-CCV4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:45	MA56386-CCB4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:50	ZZZZZZ	1																							
18:55	ZZZZZZ	1																							
19:00	ZZZZZZ	1																							
19:05	ZZZZZZ	5																							
19:10	ZZZZZZ	5																							
19:15	MP47542-S1	5						X																	
19:20	MP47542-S2	5						X																	
19:25	JD90829-1A	5						X																	(a)
19:30	MP47542-SD1	25						X																	
19:35	ZZZZZZ	5																							
19:40	MA56386-CCV5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:45	MA56386-CCB5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:50	ZZZZZZ	5																							
19:56	ZZZZZZ	5																							
20:01	MP47559-B1	1		X	X	X	X	X		X			X			X		X	X		X	X	X		
20:06	MP47559-LC1	1		X	X	X	X	X		X			X			X		X			X	X	X		
20:11	MP47559-LC2	1		X	X	X	X	X		X			X			X		X			X	X	X		
20:16	MP47559-S1	1		X	X	X	X	X		X			X			X		X	X		X	X	X		
20:21	MP47559-S2	1		X	X	X	X	X		X			X			X		X	X		X	X	X		
20:26	JD91175-1	1		X	X	X	X	X		X			X			X		X	X		X	X	X		(a)
20:31	MP47559-SD1	5		X	X	X	X	X		X			X			X		X	X		X	X	X		
20:36	MP47559-PS1	1		X																					
20:41	MA56386-CCV6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:46	MA56386-CCB6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:51	ZZZZZZ	1																							
20:56	ZZZZZZ	1																							
21:01	ZZZZZZ	1																							
21:05	ZZZZZZ	1																							
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
Analyst: MM Run ID: MA56386
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
21:10	ZZZZZZ	1																							
21:15	ZZZZZZ	1																							
21:20	ZZZZZZ	1																							
21:25	ZZZZZZ	1																							
21:29	MP47559-LC1	5																		X					
21:34	MP47559-LC2	5																		X					
21:39	MA56386-CCV7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:44	MA56386-CCB7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:49	ZZZZZZ	1																							
21:54	ZZZZZZ	1																							
21:59	ZZZZZZ	1																							
22:04	ZZZZZZ	1																							
22:09	ZZZZZZ	1																							
22:14	ZZZZZZ	1																							
22:19	ZZZZZZ	1																							
22:24	ZZZZZZ	1																							
22:29	ZZZZZZ	1																							
22:34	MA56386-CCV8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22:39	MA56386-CCB8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22:44	MP47579-MB1	1	X			X	X		X	X		X	X		X	X		X			X	X		X	
22:49	MP47579-B1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22:54	MP47579-S1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22:59	MP47579-S2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23:04	JD91272-1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	(a)
23:09	MP47579-SD1	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23:14	MP47579-PS1	1		X																					
23:19	ZZZZZZ	1																							
23:24	ZZZZZZ	1																							
23:29	ZZZZZZ	1																							
23:34	MA56386-CCV9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23:39	MA56386-CCB9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23:44	ZZZZZZ	1																							
23:49	ZZZZZZ	1																							
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
Analyst: MM Run ID: MA56386
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
23:55	ZZZZZZ	1																							
00:00	ZZZZZZ	1																							
00:05	ZZZZZZ	1																							
00:10	ZZZZZZ	1																							
00:15	ZZZZZZ	1																							
00:20	ZZZZZZ	1																							
00:25	ZZZZZZ	1																							
00:30	ZZZZZZ	1																							
00:35	MA56386-CCV10	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
00:41	MA56386-CCB10	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
00:46	ZZZZZZ	1																							
00:51	ZZZZZZ	1																							
00:56	ZZZZZZ	1																							
01:01	ZZZZZZ	1																							
01:06	ZZZZZZ	1																							
01:11	ZZZZZZ	1																							
01:16	MP47574-B1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
01:21	MP47574-MB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
01:26	MP47574-S1	1	ISTD saturation																						
01:31	MP47574-S2	1	ISTD saturation																						
01:36	MA56386-CCV11	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
01:41	MA56386-CCB11	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
01:46	JD91222-1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	(a)
01:52	MP47574-SD1	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
01:57	JD91204-18	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
02:01	JD91204-19	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
02:06	ZZZZZZ	1																							
02:12	ZZZZZZ	1																							
02:17	ZZZZZZ	1																							
02:22	ZZZZZZ	1																							
02:27	ZZZZZZ	1																							
02:32	ZZZZZZ	1																							
02:37	MA56386-CCV12	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
Analyst: MM Run ID: MA56386
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
02:42	MA56386-CCB12	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
02:47	ZZZZZZ	1																							
02:53	ZZZZZZ	1																							
02:58	ZZZZZZ	1																							
03:03	ZZZZZZ	1																							
03:08	ZZZZZZ	1																							
03:13	ZZZZZZ	1																							
03:18	MP47568-B1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03:24	MP47568-MB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03:29	MP47568-S1	1	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X	X		X	X	X	
03:34	MP47568-S2	1	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X	X		X	X	X	
03:39	MA56386-CCV13	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03:44	MA56386-CCB13	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03:49	JD91181-1	1	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X	X		X	X	X	(a)
03:55	MP47568-SD1	5	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X	X		X	X	X	
04:00	ZZZZZZ	1																							
04:05	ZZZZZZ	1																							
04:10	ZZZZZZ	1																							
04:15	ZZZZZZ	1																							
04:20	ZZZZZZ	1																							
04:25	ZZZZZZ	1																							
04:30	ZZZZZZ	1																							
04:35	ZZZZZZ	1																							
04:40	MA56386-CCV14	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
04:45	MA56386-CCB14	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
04:50	ZZZZZZ	1																							
04:55	ZZZZZZ	1																							
05:00	ZZZZZZ	1																							
05:05	ZZZZZZ	1																							
05:10	ZZZZZZ	1																							
05:15	ZZZZZZ	1																							
05:20	ZZZZZZ	1																							
05:25	MA56386-CCV15	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
Analyst: MM Run ID: MA56386
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn
05:31	MA56386-CCB15	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

(a) Sample used for QC only; not part of login JD91204.

Element: Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni K Se Ag Na Tl V Zn

INTERNAL STANDARD SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
Analyst: MM Run ID: MA56386
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:24	MA56386-STD1	5180 R	100310 R	24078 R	12497 R
15:28	MA56386-STD2	4997	99327	25696	11256
15:34	MA56386-ICV1	5154	103210	26092	11695
15:40	MA56386-ICB1	5134	97617	23806	12439
15:45	MA56386-CCV1	5039	91743	23612	11486
15:50	MA56386-CCB1	5151	96904	23545	12505
15:55	MA56386-CRI1	5110	96088	23454	12284
16:00	MA56386-CRID1	5183	98449	23894	12510
16:05	MA56386-ICSA1	4797	86396	24132	10508
16:10	MA56386-ICSAB1	4813	86611	24245	10540
16:15	ZZZZZZ	20153 !	338120 !	67389 !	44285 !
16:20	MA56386-HSTD1	4796	87790	23368	10467
16:27	MA56386-HSTD2	5061	99009	25937	12250
16:33	MA56386-CCV2	5045	95325	24576	11474
16:39	MA56386-CCB2	5231	100570	24110	12623
16:44	MP47560-B1	5169	101870	25534	11915
16:49	MP47560-S1	No results reported for the elements associated with this internal standard.			
16:54	MP47560-S2	5318	96483	25633	11731
16:59	JD91177-6	5390	98114	24885	12157
17:04	MP47560-SD1	5341	98137	24238	12541
17:09	ZZZZZZ	5438	98832	25635	12176
17:14	ZZZZZZ	5451	100640	25648	12278
17:19	ZZZZZZ	5447	100630	25805	12175
17:24	ZZZZZZ	5421	99857	25499	12221
17:30	ZZZZZZ	5510	102430	26199	12225
17:35	MA56386-CCV3	5162	96047	24710	11691
17:40	MA56386-CCB3	5261	100890	24561	12700
17:45	MP47560-S1	5491	105620	27417	12012
17:50	MP47560-MB1	5352	109320	26180	12882
17:55	ZZZZZZ	5224	103180	25037	12501
18:00	MP47559-MB1	5222	97592	23707	12645
18:05	MA56386-CRI2	5140	95669	23303	12342
18:10	MA56386-CRID2	5195	96981	23547	12537

INTERNAL STANDARD SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
Analyst: MM Run ID: MA56386
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:15	MA56386-ICSA2	4816	86295	23782	10541
18:20	MA56386-ICSAB2	4858	87366	24256	10620
18:25	ZZZZZZ	999999 !	98445	24139	999999 !
18:30	ZZZZZZ	5416	91434	25476	11490
18:35	ZZZZZZ	4807	92716	23749	10853
18:40	MA56386-CCV4	5192	100150	25283	11747
18:45	MA56386-CCB4	5307	106500	25214	12745
18:50	ZZZZZZ	No results reported for the elements associated with this internal standard.			
18:55	ZZZZZZ	No results reported for the elements associated with this internal standard.			
19:00	ZZZZZZ	No results reported for the elements associated with this internal standard.			
19:05	ZZZZZZ	5304	96740	24002	12388
19:10	ZZZZZZ	5269	96819	24088	12266
19:15	MP47542-S1	4964	93708	24079	10952
19:20	MP47542-S2	4948	96850	25000	10860
19:25	JD90829-1A	5181	98211	25113	11448
19:30	MP47542-SD1	5176	103050	25565	12006
19:35	ZZZZZZ	5024	97649	25077	10916
19:40	MA56386-CCV5	5102	94372	23950	11611
19:45	MA56386-CCB5	5232	97145	23637	12650
19:50	ZZZZZZ	4949	92049	24043	10904
19:56	ZZZZZZ	4880	93118	24048	10778
20:01	MP47559-B1	5278	102160	25543	12165
20:06	MP47559-LC1	5409	106260	26826	12016
20:11	MP47559-LC2	5398	105240	26058	11993
20:16	MP47559-S1	5338	103050	26373	12002
20:21	MP47559-S2	5338	102080	26011	11988
20:26	JD91175-1	5401	103440	25548	12289
20:31	MP47559-SD1	5356	99535	24537	12655
20:36	MP47559-PS1	5305	96390	24897	11957
20:41	MA56386-CCV6	5124	93878	24126	11635
20:46	MA56386-CCB6	5236	97497	23550	12637
20:51	ZZZZZZ	5459	100590	25641	12329
20:56	ZZZZZZ	5383	104330	25570	12520

INTERNAL STANDARD SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
Analyst: MM Run ID: MA56386
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
21:01	ZZZZZZ	5482	105480	26107	12402
21:05	ZZZZZZ	5477	105370	26199	12446
21:10	ZZZZZZ	5461	106140	26255	12531
21:15	ZZZZZZ	5389	104340	25738	12533
21:20	ZZZZZZ	5377	103450	25247	12704
21:25	ZZZZZZ	5281	101850	25668	12022
21:29	MP47559-LC1	5354	102420	25111	12557
21:34	MP47559-LC2	5353	102090	24920	12563
21:39	MA56386-CCV7	5192	98442	24769	11809
21:44	MA56386-CCB7	5296	102200	24426	12814
21:49	ZZZZZZ	4913	93726	24439	11133
21:54	ZZZZZZ	5255	100720	24365	12718
21:59	ZZZZZZ	5177	99465	24017	12678
22:04	ZZZZZZ	5196	97155	23295	12584
22:09	ZZZZZZ	5198	96305	23025	12588
22:14	ZZZZZZ	5227	97916	23537	12733
22:19	ZZZZZZ	5237	98275	23600	12630
22:24	ZZZZZZ	5254	101500	24238	12683
22:29	ZZZZZZ	5280	102660	24366	12744
22:34	MA56386-CCV8	5210	100550	25363	11832
22:39	MA56386-CCB8	5311	102960	24568	12805
22:44	MP47579-MB1	999999 !a	103670	24867	999999 !a
22:49	MP47579-B1	5291	99861	25074	12188
22:54	MP47579-S1	5418	103070	26079	12106
22:59	MP47579-S2	5436	102440	26206	12155
23:04	JD91272-1	5519	104280	25815	12621
23:09	MP47579-SD1	5387	102630	24648	12740
23:14	MP47579-PS1	5421	101490	26060	12234
23:19	ZZZZZZ	5575	105180	26911	12346
23:24	ZZZZZZ	5141	96151	26102	10801
23:29	ZZZZZZ	5184	97701	26219	11149
23:34	MA56386-CCV9	5234	98597	25422	11875
23:39	MA56386-CCB9	5278	101300	24439	12756

INTERNAL STANDARD SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
Analyst: MM Run ID: MA56386
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
23:44	ZZZZZZ	5092	94850	25576	10711
23:49	ZZZZZZ	5166	96487	26041	10795
23:55	ZZZZZZ	999999 !	96159	25784	999999 !
00:00	ZZZZZZ	5567	104690	26746	12296
00:05	ZZZZZZ	999999 !	95181	25481	999999 !
00:10	ZZZZZZ	5632	105510	26792	12289
00:15	ZZZZZZ	999999 !	95626	25915	999999 !
00:20	ZZZZZZ	5615	104960	26639	12326
00:25	ZZZZZZ	5120	95636	25839	10788
00:30	ZZZZZZ	5480	103330	25625	12492
00:35	MA56386-CCV10	5261	99734	25607	11921
00:41	MA56386-CCB10	5353	103550	25012	12911
00:46	ZZZZZZ	5695	107210	26978	12541
00:51	ZZZZZZ	5506	105480	26478	12513
00:56	ZZZZZZ	5469	103440	25946	12431
01:01	ZZZZZZ	5577	104330	26401	12475
01:06	ZZZZZZ	5406	102640	25376	12497
01:11	ZZZZZZ	5508	105180	26136	12518
01:16	MP47574-B1	5246	100130	25550	12072
01:21	MP47574-MB1	5296	101830	24363	12807
01:26	MP47574-S1	No results reported for the elements associated with this internal standard.			
01:31	MP47574-S2	No results reported for the elements associated with this internal standard.			
01:36	MA56386-CCV11	5230	97407	24671	11837
01:41	MA56386-CCB11	5335	101510	24264	12853
01:46	JD91222-1	4894	92988	23989	10985
01:52	MP47574-SD1	5185	98467	24313	12125
01:57	JD91204-18	5314	101990	24522	12828
02:01	JD91204-19	5325	102540	24839	12862
02:06	ZZZZZZ	5006	96178	24610	11390
02:12	ZZZZZZ	4945	94321	24587	10996
02:17	ZZZZZZ	5119	98152	25217	11600
02:22	ZZZZZZ	5104	98091	25221	11607
02:27	ZZZZZZ	4937	93758	24678	10969

INTERNAL STANDARD SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
Analyst: MM Run ID: MA56386
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
02:32	ZZZZZZ	5092	97470	25061	11550
02:37	MA56386-CCV12	5300	99373	25389	11992
02:42	MA56386-CCB12	5371	103150	25084	12954
02:47	ZZZZZZ	4828	89565	24459	10359
02:53	ZZZZZZ	4788	90965	24633	10460
02:58	ZZZZZZ	4785	88931	23650	10299
03:03	ZZZZZZ	999999 !	89537	23582	999999 !
03:08	ZZZZZZ	4848	93868	24549	10702
03:13	ZZZZZZ	5422	103580	24971	13017
03:18	MP47568-B1	5381	101400	25913	12304
03:24	MP47568-MB1	5501	105160	25404	13193
03:29	MP47568-S1	4978	94016	25332	10675
03:34	MP47568-S2	4991	93237	25234	10688
03:39	MA56386-CCV13	5353	100700	25830	12031
03:44	MA56386-CCB13	5430	104780	25546	12988
03:49	JD91181-1	4942	94960	25331	10759
03:55	MP47568-SD1	5240	100220	25175	11966
04:00	ZZZZZZ	5275	102750	26250	12405
04:05	ZZZZZZ	5471	103260	28295	13711
04:10	ZZZZZZ	5565	107450	26409	12876
04:15	ZZZZZZ	5110	95914	25738	10933
04:20	ZZZZZZ	5604	107330	26709	12890
04:25	ZZZZZZ	5440	103430	26404	12210
04:30	ZZZZZZ	4877	90296	25423	10054
04:35	ZZZZZZ	4897	88693	25278	10036
04:40	MA56386-CCV14	5395	102160	25845	12115
04:45	MA56386-CCB14	5548	107240	26123	13270
04:50	ZZZZZZ	5341	100390	26016	11707
04:55	ZZZZZZ	5552	106500	26233	13277
05:00	ZZZZZZ	5531	107370	26128	13248
05:05	ZZZZZZ	4832	94233	25025	10461
05:10	ZZZZZZ	4938	93077	24931	10665
05:15	ZZZZZZ	5595	107420	26286	13384

INTERNAL STANDARD SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
Analyst: MM Run ID: MA56386
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
05:20	ZZZZZZ	4941	92821	24486	10786
05:25	MA56386-CCV15	5364	102010	25617	12069
05:31	MA56386-CCB15	5443	104850	25055	13046

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

(a) No samples reported for the elements associated with this internal standard.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA56386 Units: ug/l

Time: / Sample ID:			15:40 ICB1		15:50 CCB1		16:39 CCB2		17:40 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	27	8.00	<200	6.30	<200	-0.400	<200	-1.10	<200
Antimony	6.0	2.2	0.800	<6.0	0.300	<6.0	0.300	<6.0	0.500	<6.0
Arsenic	3.0	1.3	0.400	<3.0	-0.800	<3.0	-0.200	<3.0	0.100	<3.0
Barium	200	1	0.300	<200	0.00	<200	0.100	<200	-0.200	<200
Beryllium	1.0	.2	0.400	<1.0	0.200	<1.0	0.100	<1.0	0.100	<1.0
Bismuth	20	2.1								
Boron	100	1								
Cadmium	3.0	.2	0.400	<3.0	0.00	<3.0	0.00	<3.0	0.100	<3.0
Calcium	5000	7.7	6.80	<5000	2.40	<5000	0.900	<5000	-1.60	<5000
Cerium	100									
Chromium	10	.5	0.600	<10	0.200	<10	-0.200	<10	0.00	<10
Cobalt	50	.4	0.700	<50	0.300	<50	0.200	<50	0.500	<50
Copper	10	6.8	1.10	<10	0.600	<10	0.200	<10	0.300	<10
Iron	100	15	3.80	<100	-2.40	<100	5.90	<100	4.50	<100
Lead	3.0	1.6	0.600	<3.0	0.300	<3.0	0.300	<3.0	0.600	<3.0
Lithium	50	3.7								
Magnesium	5000	54	-2.70	<5000	-1.80	<5000	7.10	<5000	-10.9	<5000
Manganese	15	.1	0.400	<15	0.200	<15	0.00	<15	0.100	<15
Molybdenum	20	.5								
Nickel	10	.3	0.500	<10	0.200	<10	-0.100	<10	0.400	<10
Phosphorus	50	1.8								
Potassium	10000	77	101	<10000	68.6	<10000	33.3	<10000	127	<10000
Selenium	10	2	0.500	<10	0.500	<10	2.40	<10	1.00	<10
Silicon	200	1.3								
Silver	10	.9	-0.300	<10	0.00	<10	0.00	<10	-0.500	<10
Sodium	10000	23	10.6	<10000	-9.70	<10000	5.80	<10000	-10.4	<10000
Strontium	10	.4								
Sulfur	50	4.1								
Thallium	10	1.6	1.50	<10	1.20	<10	1.40	<10	0.300	<10
Tin	10	.9								
Titanium	10	.9								
Tungsten	50	2								
Vanadium	50	.8	0.400	<50	0.300	<50	0.00	<50	0.00	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA56386 Units: ug/l

Time:			15:40		15:50		16:39		17:40	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.2	0.300	<20	0.100	<20	0.00	<20	-0.200	<20
Zirconium	10	.5								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA56386 Units: ug/l

Time:			18:45		19:45		20:46		21:44	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	27	1.70	<200	9.10	<200	19.4	<200	5.40	<200
Antimony	6.0	2.2	-0.600	<6.0	1.20	<6.0	1.30	<6.0	0.100	<6.0
Arsenic	3.0	1.3	-0.100	<3.0	-0.900	<3.0	-0.300	<3.0	-0.300	<3.0
Barium	200	1	-0.100	<200	0.00	<200	-0.100	<200	-0.300	<200
Beryllium	1.0	.2	0.00	<1.0	0.00	<1.0	0.100	<1.0	0.00	<1.0
Bismuth	20	2.1								
Boron	100	1								
Cadmium	3.0	.2	0.100	<3.0	0.00	<3.0	0.100	<3.0	0.00	<3.0
Calcium	5000	7.7	3.20	<5000	-2.30	<5000	-1.60	<5000	-0.200	<5000
Cerium	100									
Chromium	10	.5	0.100	<10	0.00	<10	0.100	<10	0.100	<10
Cobalt	50	.4	0.400	<50	0.200	<50	0.400	<50	0.300	<50
Copper	10	6.8	0.300	<10	0.300	<10	0.100	<10	0.500	<10
Iron	100	15	10.5	<100	4.80	<100	3.20	<100	-0.500	<100
Lead	3.0	1.6	0.00	<3.0	-0.200	<3.0	0.400	<3.0	-0.400	<3.0
Lithium	50	3.7								
Magnesium	5000	54	-10.2	<5000	-10.7	<5000	-11.6	<5000	-7.40	<5000
Manganese	15	.1	0.00	<15	0.100	<15	0.00	<15	0.100	<15
Molybdenum	20	.5								
Nickel	10	.3	0.200	<10	0.100	<10	0.300	<10	0.200	<10
Phosphorus	50	1.8								
Potassium	10000	77	-3.80	<10000	-3.80	<10000	-52.4	<10000	-92.7	<10000
Selenium	10	2	0.00	<10	0.700	<10	1.10	<10	1.10	<10
Silicon	200	1.3								
Silver	10	.9	-0.200	<10	-0.400	<10	-0.700	<10	-0.200	<10
Sodium	10000	23	10.7	<10000	9.90	<10000	-11.1	<10000	21.2	<10000
Strontium	10	.4								
Sulfur	50	4.1								
Thallium	10	1.6	1.00	<10	1.50	<10	1.90	<10	0.700	<10
Tin	10	.9								
Titanium	10	.9								
Tungsten	50	2								
Vanadium	50	.8	0.100	<50	0.100	<50	0.300	<50	0.100	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA56386 Units: ug/l

Time:			18:45		19:45		20:46		21:44	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.2	-0.100	<20	-0.300	<20	0.100	<20	-0.200	<20
Zirconium	10	.5								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA56386 Units: ug/l

Time:			22:39		23:39		00:41		01:41	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	27	2.50	<200	3.90	<200	-5.00	<200	6.10	<200
Antimony	6.0	2.2	1.20	<6.0	1.30	<6.0	0.100	<6.0	-0.800	<6.0
Arsenic	3.0	1.3	-0.300	<3.0	0.00	<3.0	-0.500	<3.0	-0.300	<3.0
Barium	200	1	-0.200	<200	-0.300	<200	-0.100	<200	-0.100	<200
Beryllium	1.0	.2	0.00	<1.0	0.100	<1.0	0.00	<1.0	0.100	<1.0
Bismuth	20	2.1								
Boron	100	1								
Cadmium	3.0	.2	0.100	<3.0	0.100	<3.0	0.100	<3.0	0.100	<3.0
Calcium	5000	7.7	1.40	<5000	1.00	<5000	1.20	<5000	0.00	<5000
Cerium	100									
Chromium	10	.5	-0.100	<10	0.100	<10	0.100	<10	0.00	<10
Cobalt	50	.4	0.300	<50	0.400	<50	0.200	<50	0.200	<50
Copper	10	6.8	-0.200	<10	0.100	<10	-0.100	<10	-0.300	<10
Iron	100	15	-6.00	<100	7.80	<100	12.2	<100	1.10	<100
Lead	3.0	1.6	0.400	<3.0	0.400	<3.0	-1.20	<3.0	-0.200	<3.0
Lithium	50	3.7								
Magnesium	5000	54	-12.5	<5000	-12.5	<5000	-12.1	<5000	-11.9	<5000
Manganese	15	.1	0.00	<15	0.100	<15	0.100	<15	0.100	<15
Molybdenum	20	.5								
Nickel	10	.3	0.400	<10	0.00	<10	0.00	<10	0.100	<10
Phosphorus	50	1.8								
Potassium	10000	77	-25.0	<10000	-25.5	<10000	-85.3	<10000	-47.0	<10000
Selenium	10	2	0.800	<10	-0.500	<10	0.600	<10	-0.700	<10
Silicon	200	1.3								
Silver	10	.9	0.00	<10	0.00	<10	-0.400	<10	0.100	<10
Sodium	10000	23	3.70	<10000	-1.50	<10000	5.70	<10000	11.4	<10000
Strontium	10	.4								
Sulfur	50	4.1								
Thallium	10	1.6	0.700	<10	-0.700	<10	0.500	<10	0.600	<10
Tin	10	.9								
Titanium	10	.9								
Tungsten	50	2								
Vanadium	50	.8	0.200	<50	0.00	<50	-0.100	<50	0.100	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA56386 Units: ug/l

Time:			22:39		23:39		00:41		01:41	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.2	-0.100	<20	-0.200	<20	0.00	<20	-0.200	<20
Zirconium	10	.5								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA56386 Units: ug/l

Time:			02:42	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Aluminum	200	27	7.40	<200
Antimony	6.0	2.2	1.30	<6.0
Arsenic	3.0	1.3	-0.200	<3.0
Barium	200	1	-0.100	<200
Beryllium	1.0	.2	0.100	<1.0
Bismuth	20	2.1		
Boron	100	1		
Cadmium	3.0	.2	0.00	<3.0
Calcium	5000	7.7	-2.20	<5000
Cerium	100			
Chromium	10	.5	0.100	<10
Cobalt	50	.4	0.200	<50
Copper	10	6.8	-0.600	<10
Iron	100	15	-5.90	<100
Lead	3.0	1.6	-0.100	<3.0
Lithium	50	3.7		
Magnesium	5000	54	-20.8	<5000
Manganese	15	.1	0.100	<15
Molybdenum	20	.5		
Nickel	10	.3	0.00	<10
Phosphorus	50	1.8		
Potassium	10000	77	-74.2	<10000
Selenium	10	2	1.00	<10
Silicon	200	1.3		
Silver	10	.9	-0.500	<10
Sodium	10000	23	19.6	<10000
Strontium	10	.4		
Sulfur	50	4.1		
Thallium	10	1.6	1.50	<10
Tin	10	.9		
Titanium	10	.9		
Tungsten	50	2		
Vanadium	50	.8	0.00	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA56386 Units: ug/l

Time:			02:42	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Zinc	20	.2	-0.200	<20
Zirconium	10	.5		

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56386 Units: ug/l

Time:		15:34			15:45			16:33	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40900	102.3	40000	38400	96.0	40000	38700	96.8
Antimony	2000	2030	101.5	2000	2000	100.0	2000	2010	100.5
Arsenic	2000	1970	98.5	2000	2000	100.0	2000	2010	100.5
Barium	2000	2030	101.5	2000	2130	106.5	2000	2080	104.0
Beryllium	2000	2070	103.5	2000	2080	104.0	2000	2030	101.5
Bismuth									
Boron									
Cadmium	2000	1980	99.0	2000	1990	99.5	2000	2000	100.0
Calcium	40000	40800	102.0	40000	38800	97.0	40000	39100	97.8
Cerium									
Chromium	2000	2020	101.0	2000	2140	107.0	2000	2090	104.5
Cobalt	2000	1990	99.5	2000	2020	101.0	2000	2030	101.5
Copper	2000	2020	101.0	2000	2030	101.5	2000	2030	101.5
Iron	40000	40500	101.3	40000	41400	103.5	40000	40700	101.8
Lead	2000	2070	103.5	2000	2030	101.5	2000	2040	102.0
Lithium									
Magnesium	40000	39100	97.8	40000	39800	99.5	40000	39000	97.5
Manganese	2000	2070	103.5	2000	2070	103.5	2000	2040	102.0
Molybdenum									
Nickel	2000	2040	102.0	2000	2010	100.5	2000	2010	100.5
Phosphorus									
Potassium	40000	40100	100.3	40000	38400	96.0	40000	38800	97.0
Selenium	2000	1970	98.5	2000	1990	99.5	2000	2000	100.0
Silicon									
Silver	250	246	98.4	250	251	100.4	250	248	99.2
Sodium	40000	40000	100.0	40000	40900	102.3	40000	40200	100.5
Strontium									
Sulfur									
Thallium	2000	2100	105.0	2000	2090	104.5	2000	2060	103.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	2000	100.0	2000	2120	106.0	2000	2070	103.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56386 Units: ug/l

Time:		15:34			15:45			16:33	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2040	102.0	2000	2020	101.0	2000	2010	100.5
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56386 Units: ug/l

Time:		17:35			18:40			19:40	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	37800	94.5	40000	39200	98.0	40000	38200	95.5
Antimony	2000	1950	97.5	2000	1990	99.5	2000	1970	98.5
Arsenic	2000	1950	97.5	2000	1980	99.0	2000	1970	98.5
Barium	2000	2070	103.5	2000	2040	102.0	2000	2090	104.5
Beryllium	2000	2020	101.0	2000	2040	102.0	2000	2090	104.5
Bismuth									
Boron									
Cadmium	2000	1950	97.5	2000	1980	99.0	2000	1970	98.5
Calcium	40000	38100	95.3	40000	39900	99.8	40000	38600	96.5
Cerium									
Chromium	2000	2060	103.0	2000	2040	102.0	2000	2090	104.5
Cobalt	2000	1990	99.5	2000	2000	100.0	2000	1990	99.5
Copper	2000	1990	99.5	2000	1990	99.5	2000	2000	100.0
Iron	40000	40300	100.8	40000	40600	101.5	40000	41000	102.5
Lead	2000	2000	100.0	2000	2010	100.5	2000	2010	100.5
Lithium									
Magnesium	40000	38400	96.0	40000	39300	98.3	40000	39500	98.8
Manganese	2000	2000	100.0	2000	2040	102.0	2000	2040	102.0
Molybdenum									
Nickel	2000	1970	98.5	2000	2010	100.5	2000	1990	99.5
Phosphorus									
Potassium	40000	37800	94.5	40000	39200	98.0	40000	38300	95.8
Selenium	2000	1950	97.5	2000	1980	99.0	2000	1950	97.5
Silicon									
Silver	250	245	98.0	250	244	97.6	250	247	98.8
Sodium	40000	39800	99.5	40000	40000	100.0	40000	40400	101.0
Strontium									
Sulfur									
Thallium	2000	2020	101.0	2000	2080	104.0	2000	2080	104.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	2050	102.5	2000	2030	101.5	2000	2080	104.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56386 Units: ug/l

Time:		17:35			18:40			19:40	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	1970	98.5	2000	2000	100.0	2000	1990	99.5
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56386 Units: ug/l

Time:		20:41			21:39			22:34	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	37600	94.0	40000	38800	97.0	40000	38800	97.0
Antimony	2000	1960	98.0	2000	2000	100.0	2000	1990	99.5
Arsenic	2000	1960	98.0	2000	1980	99.0	2000	1970	98.5
Barium	2000	2100	105.0	2000	2070	103.5	2000	2040	102.0
Beryllium	2000	2050	102.5	2000	2100	105.0	2000	2060	103.0
Bismuth									
Boron									
Cadmium	2000	1950	97.5	2000	1980	99.0	2000	1970	98.5
Calcium	40000	37900	94.8	40000	39400	98.5	40000	39400	98.5
Cerium									
Chromium	2000	2100	105.0	2000	2070	103.5	2000	2030	101.5
Cobalt	2000	1990	99.5	2000	1980	99.0	2000	1990	99.5
Copper	2000	1990	99.5	2000	1990	99.5	2000	1980	99.0
Iron	40000	40600	101.5	40000	41000	102.5	40000	40400	101.0
Lead	2000	2000	100.0	2000	2000	100.0	2000	1990	99.5
Lithium									
Magnesium	40000	39000	97.5	40000	39900	99.8	40000	39100	97.8
Manganese	2000	2040	102.0	2000	2040	102.0	2000	2020	101.0
Molybdenum									
Nickel	2000	1990	99.5	2000	2010	100.5	2000	2000	100.0
Phosphorus									
Potassium	40000	37500	93.8	40000	39000	97.5	40000	38900	97.3
Selenium	2000	1940	97.0	2000	1970	98.5	2000	1960	98.0
Silicon									
Silver	250	246	98.4	250	244	97.6	250	242	96.8
Sodium	40000	40200	100.5	40000	40500	101.3	40000	40100	100.3
Strontium									
Sulfur									
Thallium	2000	2060	103.0	2000	2120	106.0	2000	2080	104.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	2090	104.5	2000	2050	102.5	2000	2020	101.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56386 Units: ug/l

Time:		20:41			21:39			22:34	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	1990	99.5	2000	1990	99.5	2000	1990	99.5
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56386 Units: ug/l

Time:		23:34			00:35			01:36	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	38300	95.8	40000	38000	95.0	40000	38200	95.5
Antimony	2000	1980	99.0	2000	1980	99.0	2000	1960	98.0
Arsenic	2000	1970	98.5	2000	1960	98.0	2000	1960	98.0
Barium	2000	2060	103.0	2000	2060	103.0	2000	2070	103.5
Beryllium	2000	2060	103.0	2000	2040	102.0	2000	2050	102.5
Bismuth									
Boron									
Cadmium	2000	1970	98.5	2000	1960	98.0	2000	1950	97.5
Calcium	40000	38800	97.0	40000	38200	95.5	40000	38800	97.0
Cerium									
Chromium	2000	2070	103.5	2000	2040	102.0	2000	2080	104.0
Cobalt	2000	1990	99.5	2000	1980	99.0	2000	2000	100.0
Copper	2000	1980	99.0	2000	1970	98.5	2000	1970	98.5
Iron	40000	40500	101.3	40000	40100	100.3	40000	40700	101.8
Lead	2000	2000	100.0	2000	1990	99.5	2000	2010	100.5
Lithium									
Magnesium	40000	39000	97.5	40000	38500	96.3	40000	39500	98.8
Manganese	2000	2040	102.0	2000	2010	100.5	2000	2050	102.5
Molybdenum									
Nickel	2000	2000	100.0	2000	1990	99.5	2000	2010	100.5
Phosphorus									
Potassium	40000	38400	96.0	40000	38100	95.3	40000	38200	95.5
Selenium	2000	1960	98.0	2000	1950	97.5	2000	1940	97.0
Silicon									
Silver	250	243	97.2	250	241	96.4	250	244	97.6
Sodium	40000	40200	100.5	40000	40000	100.0	40000	40200	100.5
Strontium									
Sulfur									
Thallium	2000	2100	105.0	2000	2090	104.5	2000	2080	104.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	2050	102.5	2000	2030	101.5	2000	2070	103.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56386 Units: ug/l

Time:		23:34			00:35			01:36	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	1990	99.5	2000	1970	98.5	2000	2000	100.0
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56386 Units: ug/l

Time:		02:37	
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Aluminum	40000	38200	95.5
Antimony	2000	1960	98.0
Arsenic	2000	1950	97.5
Barium	2000	2070	103.5
Beryllium	2000	2010	100.5
Bismuth			
Boron			
Cadmium	2000	1940	97.0
Calcium	40000	38400	96.0
Cerium			
Chromium	2000	2050	102.5
Cobalt	2000	1990	99.5
Copper	2000	1970	98.5
Iron	40000	40200	100.5
Lead	2000	1990	99.5
Lithium			
Magnesium	40000	38500	96.3
Manganese	2000	2010	100.5
Molybdenum			
Nickel	2000	1980	99.0
Phosphorus			
Potassium	40000	37900	94.8
Selenium	2000	1950	97.5
Silicon			
Silver	250	243	97.2
Sodium	40000	40100	100.3
Strontium			
Sulfur			
Thallium	2000	2030	101.5
Tin			
Titanium			
Tungsten			
Vanadium	2000	2040	102.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56386 Units: ug/l

Time:		02:37	
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Zinc	2000	1960	98.0
Zirconium			

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56386 Units: ug/l

Time:		16:20			16:27	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	300000	294000	98.0			
Antimony				8000	8420	105.3
Arsenic				8000	8280	103.5
Barium				8000	7930	99.1
Beryllium				8000	7870	98.4
Bismuth						
Boron						
Cadmium				8000	7970	99.6
Calcium	200000	189000	94.5			
Cerium						
Chromium				8000	8360	104.5
Cobalt				8000	8000	100.0
Copper				8000	7910	98.9
Iron	200000	193000	96.5			
Lead				8000	8230	102.9
Lithium						
Magnesium	300000	301000	100.3			
Manganese				8000	8020	100.3
Molybdenum						
Nickel				8000	7940	99.3
Phosphorus						
Potassium	200000	197000	98.5			
Selenium				8000	8180	102.3
Silicon						
Silver				625	641	102.6
Sodium	200000	204000	102.0			
Strontium						
Sulfur						
Thallium				8000	8420	105.3
Tin						
Titanium						
Tungsten						
Vanadium				8000	8250	103.1

HIGH STANDARD CHECK SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56386 Units: ug/l

Time:		16:20			16:27	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Zinc				8000	8260	103.3
Zirconium						

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56386 Units: ug/l

Time:				15:55		16:00		18:05	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1		CRI2	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	200	500	100	185	92.5	94.6	94.6	185	92.5
Antimony	6.0	20	3.0	7.20	120.0			6.20	103.3
Arsenic	8.0	20	3.0	7.80	97.5	2.40	80.0	7.40	92.5
Barium	200		4.0	217	108.5	4.00	100.0	216	108.0
Beryllium	2.0		1.0	2.10	105.0	0.900	90.0	2.00	100.0
Bismuth	20								
Boron	100		10						
Cadmium	3.0		1.0	2.70	90.0	1.00	100.0	2.70	90.0
Calcium	5000	2000	1000	4850	97.0	916	91.6	4790	95.8
Cerium									
Chromium	10		2.0	10.7	107.0	2.00	100.0	10.6	106.0
Cobalt	50		3.0	50.6	101.2	3.20	106.7	50.1	100.2
Copper	10		2.0	9.80	98.0			9.70	97.0
Iron	100	500		101	101.0			103	103.0
Lead	3.0	20	2.5	2.40	80.0			2.40	80.0
Lithium	50								
Magnesium	5000	2000	100	5060	101.2	84.9	84.9	4980	99.6
Manganese	15		3.0	15.3	102.0	2.90	96.7	15.1	100.7
Molybdenum	20								
Nickel	10		4.0	10.2	102.0	4.20	105.0	9.80	98.0
Phosphorus	50								
Potassium	5000		2000	4730	94.6	1900	95.0	4630	92.6
Selenium	10	20	5.0	12.3	123.0*(a	4.90	98.0	11.4	114.0
Silicon	200								
Silver	5.0		2.0	5.00	100.0			5.10	102.0
Sodium	5000		1000	5100	102.0	977	97.7	5070	101.4
Strontium	10								
Sulfur	50								
Thallium	10		2.0	11.6	116.0			11.9	119.0
Tin	10								
Titanium	10								
Tungsten	50								
Vanadium	50		2.0	52.6	105.2	1.80	90.0	52.2	104.4

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56386 Units: ug/l

Time:				15:55		16:00		18:05	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1		CRI2	
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Zinc	20		10	22.8	114.0	11.0	110.0	22.2	111.0
Zirconium	10								

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for this element in the area bracketed by this QC.

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56386 Units: ug/l

Time:				18:10	
Sample ID:	CRI	CRIA	CRID	CRID2	
Metal	True	True	True	Results	% Rec
Aluminum	200	500	100	94.4	94.4
Antimony	6.0	20	3.0		
Arsenic	8.0	20	3.0	2.40	80.0
Barium	200		4.0	4.20	105.0
Beryllium	2.0		1.0	0.900	90.0
Bismuth	20				
Boron	100		10		
Cadmium	3.0		1.0	1.00	100.0
Calcium	5000	2000	1000	898	89.8
Cerium					
Chromium	10		2.0	2.00	100.0
Cobalt	50		3.0	3.00	100.0
Copper	10		2.0		
Iron	100	500			
Lead	3.0	20	2.5		
Lithium	50				
Magnesium	5000	2000	100		
Manganese	15		3.0	2.90	96.7
Molybdenum	20				
Nickel	10		4.0	3.80	95.0
Phosphorus	50				
Potassium	5000		2000	1700	85.0
Selenium	10	20	5.0	4.30	86.0
Silicon	200				
Silver	5.0		2.0		
Sodium	5000		1000	969	96.9
Strontium	10				
Sulfur	50				
Thallium	10		2.0		
Tin	10				
Titanium	10				
Tungsten	50				
Vanadium	50		2.0	1.80	90.0

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56386 Units: ug/l

Time:				18:10	
Sample ID:	CRI	CRIA	CRID	CRID2	
Metal	True	True	True	Results	% Rec
Zinc	20		10	10.0	100.0
Zirconium	10				

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56386 Units: ug/l

Time:			16:05		16:10		18:15		18:20	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	475000	95.0	465000	93.0	474000	94.8	468000	93.6
Antimony		1000	-1.30		933	93.3	-0.200		922	92.2
Arsenic		1000	-0.200		931	93.1	0.600		920	92.0
Barium		500	-1.50		510	102.0	-1.20		505	101.0
Beryllium		500	0.00		505	101.0	0.00		501	100.2
Bismuth		500	-0.900		464	92.8	-4.70		451	90.2
Boron		500	-11.3		446	89.2	-14.9		438	87.6
Cadmium		1000	2.50		993	99.3	2.20		983	98.3
Calcium	400000	400000	348000	87.0	345000	86.3	350000	87.5	341000	85.3
Cerium			21.4		11.2		22.5		14.8	
Chromium		500	-0.500		492	98.4	-0.500		487	97.4
Cobalt		500	8.00		475	95.0	7.80		470	94.0
Copper		500	6.50		536	107.2	6.50		531	106.2
Iron	200000	200000	184000	92.0	181000	90.5	186000	93.0	181000	90.5
Lead		1000	0.300		919	91.9	-0.300		912	91.2
Lithium		500	-10.2		517	103.4	-11.3		513	102.6
Magnesium	500000	500000	487000	97.4	487000	97.4	488000	97.6	483000	96.6
Manganese		500	-3.30		515	103.0	-3.40		510	102.0
Molybdenum		500	-4.10		445	89.0	-4.70		439	87.8
Nickel		1000	6.00		916	91.6	4.80		905	90.5
Phosphorus		500	-12.9		434	86.8	-12.3		429	85.8
Potassium			92.1		154		104		84.5	
Selenium		1000	-4.00		896	89.6	-1.10		885	88.5
Silicon		500	-87.2		415	83.0	-91.1		407	81.4
Silver		1000	3.50		1120	112.0	3.80		1110	111.0
Sodium			-10.7		-18.4		-21.5		-20.4	
Strontium		500	-6.10		481	96.2	-6.10		478	95.6
Sulfur		500	-28.5		420	84.0	-31.8		416	83.2
Thallium		1000	-5.30		885	88.5	-6.60		874	87.4
Tin		500	3.40		456	91.2	2.70		450	90.0
Titanium		500	-0.100		466	93.2	0.200		464	92.8
Tungsten		500	-3.20		479	95.8	-7.20		474	94.8
Vanadium		500	0.100		514	102.8	0.300		510	102.0

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD062824M1.ICP Date Analyzed: 06/28/24 Methods: SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56386 Units: ug/l

Time:			16:05		16:10		18:15		18:20	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Zinc		1000	-7.10		910	91.0	-8.10		897	89.7
Zirconium		500	0.600		477	95.4	0.400		472	94.4

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:56	MA56387-STD1	1		STDA
09:01	MA56387-STD2	1		STDB
09:06	MA56387-ICV1	1		
09:12	MA56387-ICB1	1		
09:20	MA56387-ICCV1	1		
09:26	MA56387-CCB1	1		
09:34	MA56387-CRI1	1		
09:39	MA56387-CRID1	1		
09:44	MA56387-ICSA1	1		
09:49	MA56387-ICSAB1	1		
09:55	MA56387-HSTD1	1		
10:01	MA56387-HSTD2	1		
10:06	ZZZZZZ	1		
10:11	ZZZZZZ	1		
10:16	ZZZZZZ	1		
10:21	ZZZZZZ	1		
10:26	MA56387-CCV1	1		
10:31	MA56387-CCB2	1		
10:36	ZZZZZZ	1		
10:40	ZZZZZZ	1		
10:45	MP47458-S1	1		
10:50	MP47458-S2	1		
10:55	JD90849-3	1		(sample used for QC only; not part of login JD91204)
11:00	MP47458-SD1	5		
11:05	MP47556-B1	1		
11:10	MP47556-MB1	1		
11:15	MP47556-LB1	1		
11:20	ZZZZZZ	5		
11:25	MA56387-CCV2	1		
11:30	MA56387-CCB3	1		
11:35	ZZZZZZ	5		
11:40	ZZZZZZ	5		
11:44	MP47556-LS1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:50	MP47556-S1	5		
11:54	MP47556-S2	5		
11:59	JD91095-1	5		(sample used for QC only; not part of login JD91204)
12:04	MP47556-SD1	25		
12:09	ZZZZZZ	5		
12:14	ZZZZZZ	5		
12:19	ZZZZZZ	5		
12:24	MA56387-CCV3	1		
12:29	MA56387-CCB4	1		
12:34	ZZZZZZ	5		
12:39	ZZZZZZ	5		
12:44	ZZZZZZ	5		
12:49	ZZZZZZ	5		
12:54	ZZZZZZ	5		
12:59	ZZZZZZ	5		
13:04	ZZZZZZ	1		
13:09	MP47515-S1	1		
13:14	MP47515-S2	1		
13:18	JD91062-9	1		(sample used for QC only; not part of login JD91204)
13:23	MA56387-CCV4	1		
13:28	MA56387-CCB5	1		
13:33	MP47558-S1	1		MN high
13:38	MP47558-S2	1		MN high
13:43	JD88846-1R	1		(sample used for QC only; not part of login JD91204)
13:48	MP47558-SD1	5		MN high
13:53	MP47558-PS1	1		
13:58	ZZZZZZ	1		
14:03	ZZZZZZ	1		
14:09	ZZZZZZ	1		
14:13	ZZZZZZ	1		
14:18	ZZZZZZ	1		
14:23	MA56387-CCV5	1		
14:28	MA56387-CCB6	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:33	ZZZZZZ	1		
14:38	ZZZZZZ	1		
14:43	ZZZZZZ	1		
14:48	ZZZZZZ	1		
14:52	ZZZZZZ	1		
14:57	ZZZZZZ	1		
15:02	ZZZZZZ	1		
15:07	ZZZZZZ	1		
15:12	ZZZZZZ	1		
15:18	ZZZZZZ	1		
15:23	MA56387-CCV6	1		
15:27	MA56387-CCB7	1		
15:32	ZZZZZZ	1		
15:37	MP47572-B1	1		
15:42	ZZZZZZ	1		
15:47	ZZZZZZ	1		
15:52	MP47572-S2	1		
15:57	JD91204-1	1		
16:02	ZZZZZZ	1		
16:07	MP47572-PS1	1		
16:12	ZZZZZZ	1		
16:17	JD91204-2	1		
16:22	MA56387-CCV7	1		
16:27	MA56387-CCB8	1		
16:32	JD91204-3	1		
16:37	JD91204-4	1		
16:42	JD91204-5	1		
16:47	JD91204-6	1		
16:52	JD91204-7	1		
16:57	JD91204-8	1		
17:02	JD91204-9	1		
17:07	JD91204-10	1		
17:12	JD91204-11	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:17	JD91204-12	1		
17:22	MA56387-CCV8	1		
17:27	MA56387-CCB9	1		
17:32	JD91204-13	1		FE high
17:37	JD91204-14	1		
17:42	JD91204-15	1		
17:47	JD91204-16	1		
17:52	JD91204-17	1		
17:57	ZZZZZZ	1		
18:02	ZZZZZZ	1		
18:07	ZZZZZZ	1		
18:12	ZZZZZZ	1		
18:17	ZZZZZZ	1		
18:22	MA56387-CCV9	1		
18:27	MA56387-CCB10	1		
18:32	MP47515-MB1	1		
18:37	MP47515-SD1	5		
18:41	ZZZZZZ	10		
18:46	ZZZZZZ	5		
18:51	ZZZZZZ	10		
18:56	ZZZZZZ	5		
19:01	ZZZZZZ	5		
19:06	ZZZZZZ	5		
19:11	ZZZZZZ	5		
19:16	ZZZZZZ	5		
19:20	MA56387-CCV10	1		
19:25	MA56387-CCB11	1		
19:30	ZZZZZZ	1		
19:35	MP47530-S1	5		
19:40	MP47530-S2	5		
19:44	JD91096-2	5		(sample used for QC only; not part of login JD91204)
19:49	MP47530-SD1	25		
19:54	ZZZZZZ	5		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:59	ZZZZZZ	5		
20:04	MP47555-B1	1		
20:08	MP47555-MB1	1		
20:13	MP47555-LB1	1		
20:18	MA56387-CCV11	1		
20:23	MA56387-CCB12	1		
20:28	MP47555-LS1	1		
20:33	MP47555-S1	1		
20:38	MP47555-S2	1		
20:42	JD88226-5RU	1		(sample used for QC only; not part of login JD91204)
20:47	MP47555-SD1	5		
20:52	ZZZZZZ	1		
20:57	ZZZZZZ	1		
21:02	ZZZZZZ	1		
21:06	ZZZZZZ	1		
21:11	ZZZZZZ	1		
21:16	MA56387-CCV12	1		
21:21	MA56387-CCB13	1		
21:26	ZZZZZZ	1		
21:31	MP47523-MB1	1		
21:35	MP47523-B1	1		
21:40	MP47523-B2	1		
21:45	MP47523-S1	1		
21:50	MP47523-S2	1		
21:55	JD91091-1	1		(sample used for QC only; not part of login JD91204)
22:00	MP47523-SD1	5		
22:05	ZZZZZZ	1		
22:09	ZZZZZZ	1		
22:14	MA56387-CCV13	1		
22:19	MA56387-CCB14	1		
22:24	ZZZZZZ	1		
22:29	ZZZZZZ	1		
22:34	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
22:38	ZZZZZZ	1		
22:43	ZZZZZZ	1		
22:48	ZZZZZZ	1		
22:53	ZZZZZZ	1		
22:58	ZZZZZZ	1		
23:03	ZZZZZZ	1		
23:07	ZZZZZZ	1		
23:12	MA56387-CCV14	1		
23:17	MA56387-CCB15	1		
23:22	MP47516-MB1	1		
23:27	MP47516-B1	1		
23:32	MP47516-S1	1		
23:37	MP47516-S2	1		
23:42	JD91067-1	1		(sample used for QC only; not part of login JD91204)
23:47	MP47516-SD1	5		
23:52	ZZZZZZ	1		
23:57	ZZZZZZ	1		
00:01	ZZZZZZ	1		
00:06	ZZZZZZ	1		
00:11	MA56387-CCV15	1		
00:16	MA56387-CCB16	1		
00:21	MP47526-MB1	1		
00:26	MP47526-LB1	1		
00:31	MP47526-B1	1		
00:36	MP47526-LS1	5		
00:40	MP47526-S1	5		
00:45	MP47526-S2	5		
00:50	JD90894-5	5		(sample used for QC only; not part of login JD91204)
00:55	MP47526-SD1	25		rerun for Zn
01:00	ZZZZZZ	1		
01:05	ZZZZZZ	1		
01:10	MA56387-CCV16	1		
01:15	MA56387-CCB17	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
01:20	ZZZZZZ	1		
01:25	ZZZZZZ	1		
01:30	ZZZZZZ	1		
01:35	ZZZZZZ	1		
01:40	MP47509-MB2	1		
01:45	MP47509-B2	1		
01:50	MP47509-S3	1		
01:54	MP47509-S4	1		
01:59	ZZZZZZ	1		
02:04	MP47566-MB1	1		
02:09	MA56387-CCV17	1		
02:14	MA56387-CCB18	1		
02:19	MP47448-MB1	1		
02:24	MP47572-MB1	1		
02:29	MP47572-S1	1		
02:34	MP47572-SD1	5		
---------->	Last reportable sample/prep for job JD91204			
02:39	MP47566-B1	1		
02:44	MP47566-S1	1		
02:49	MP47566-S2	1		
02:54	JD91280-1	1		(sample used for QC only; not part of login JD91204)
02:59	MP47566-SD1	5		
03:03	ZZZZZZ	1		
03:09	MA56387-CCV18	1		
03:13	MA56387-CCB19	1		
---------->	Last reportable CCB for job JD91204			
03:18	ZZZZZZ	1		
03:23	ZZZZZZ	1		
03:28	ZZZZZZ	1		
03:33	MP47536-S1	5		
03:38	MP47536-S2	5		
03:43	JD91107-10	5		(sample used for QC only; not part of login JD91204)
03:48	MP47536-SD1	25		
03:53	MP47536-SD1	25		
03:58	MP47576-MB1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
04:02	MP47576-B1	1		
04:07	MA56387-CCV19	1		
04:12	MA56387-CCB20	1		
04:17	ZZZZZZ	1		
04:22	ZZZZZZ	1		
04:27	ZZZZZZ	1		
04:32	ZZZZZZ	1		
04:37	ZZZZZZ	1		
04:41	ZZZZZZ	1		
04:46	ZZZZZZ	1		
04:51	ZZZZZZ	1		
04:56	ZZZZZZ	1		
05:01	MA56387-CCV20	1		
05:06	MA56387-CCB21	1		
05:11	ZZZZZZ	1		
05:16	ZZZZZZ	1		
05:21	ZZZZZZ	1		
05:26	ZZZZZZ	1		
05:31	ZZZZZZ	1		
05:36	ZZZZZZ	1		
05:41	ZZZZZZ	1		
05:46	ZZZZZZ	5		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
09:06	MA56387-ICV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
09:12	MA56387-ICB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
09:20	MA56387-ICCV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
09:26	MA56387-CCB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
09:34	MA56387-CRI1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
09:39	MA56387-CRID1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
09:44	MA56387-ICSA1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
09:49	MA56387-ICSAB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
09:55	MA56387-HSTD1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
10:01	MA56387-HSTD2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
10:06	ZZZZZZ	1																							
10:11	ZZZZZZ	1																							
10:16	ZZZZZZ	1																							
10:21	ZZZZZZ	1																							
10:26	MA56387-CCV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
10:31	MA56387-CCB2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
10:36	ZZZZZZ	1																							
10:40	ZZZZZZ	1																							
10:45	MP47458-S1	1	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X		X	
10:50	MP47458-S2	1	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X		X	
10:55	JD90849-3	1		X	X	X	X	X		X	X			X			X		X	X		X		X	(a)
11:00	MP47458-SD1	5	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X		X	
11:05	MP47556-B1	1			X	X		X		X				X					X	X					
11:10	MP47556-MB1	1			X	X		X		X				X					X	X					
11:15	MP47556-LB1	1																							
11:20	ZZZZZZ	5																							
11:25	MA56387-CCV2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:30	MA56387-CCB3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:35	ZZZZZZ	5																							
11:40	ZZZZZZ	5																							
11:44	MP47556-LS1	1			X	X		X		X				X					X	X					
11:50	MP47556-S1	5			X	X		X		X				X					X	X					
11:54	MP47556-S2	5			X	X		X		X				X					X	X					
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
11:59	JD91095-1	5			X	X		X		X				X					X	X					(a)
12:04	MP47556-SD1	25			X	X		X		X				X					X	X					
12:09	ZZZZZZ	5																							
12:14	ZZZZZZ	5																							
12:19	ZZZZZZ	5																							
12:24	MA56387-CCV3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
12:29	MA56387-CCB4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
12:34	ZZZZZZ	5																							
12:39	ZZZZZZ	5																							
12:44	ZZZZZZ	5																							
12:49	ZZZZZZ	5																							
12:54	ZZZZZZ	5																							
12:59	ZZZZZZ	5																							
13:04	ZZZZZZ	1																							
13:09	MP47515-S1	1																						X	
13:14	MP47515-S2	1																						X	
13:18	JD91062-9	1																						X	(a)
13:23	MA56387-CCV4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
13:28	MA56387-CCB5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
13:33	MP47558-S1	1	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	
13:38	MP47558-S2	1	X	X	X	X	X	X		X	X	X	X	X	X		X	X	X	X	X		X	X	
13:43	JD88846-1R	1	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	(a)
13:48	MP47558-SD1	5	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X		X	X	
13:53	MP47558-PS1	1		X					X																
13:58	ZZZZZZ	1																							
14:03	ZZZZZZ	1																							
14:09	ZZZZZZ	1																							
14:13	ZZZZZZ	1																							
14:18	ZZZZZZ	1																							
14:23	MA56387-CCV5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
14:28	MA56387-CCB6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
14:33	ZZZZZZ	1																							
14:38	ZZZZZZ	1																							
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn
14:43	ZZZZZZ	1																						
14:48	ZZZZZZ	1																						
14:52	ZZZZZZ	1																						
14:57	ZZZZZZ	1																						
15:02	ZZZZZZ	1																						
15:07	ZZZZZZ	1																						
15:12	ZZZZZZ	1																						
15:18	ZZZZZZ	1																						
15:23	MA56387-CCV6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15:27	MA56387-CCB7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15:32	ZZZZZZ	1																						
15:37	MP47572-B1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15:42	ZZZZZZ	1																						
15:47	ZZZZZZ	1																						
15:52	MP47572-S2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15:57	JD91204-1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16:02	ZZZZZZ	1																						
16:07	MP47572-PS1	1		X																				
16:12	ZZZZZZ	1																						
16:17	JD91204-2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16:22	MA56387-CCV7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16:27	MA56387-CCB8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16:32	JD91204-3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16:37	JD91204-4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16:42	JD91204-5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16:47	JD91204-6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16:52	JD91204-7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16:57	JD91204-8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17:02	JD91204-9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17:07	JD91204-10	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17:12	JD91204-11	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17:17	JD91204-12	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17:22	MA56387-CCV8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
17:27	MA56387-CCB9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:32	JD91204-13	1	X	X	X	X	X	X	X	X	X			X	X	X	X	X		X	X	X	X	X	
17:37	JD91204-14	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:42	JD91204-15	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:47	JD91204-16	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:52	JD91204-17	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:57	ZZZZZZ	1																							
18:02	ZZZZZZ	1																							
18:07	ZZZZZZ	1																							
18:12	ZZZZZZ	1																							
18:17	ZZZZZZ	1																							
18:22	MA56387-CCV9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:27	MA56387-CCB10	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:32	MP47515-MB1	1																						X	
18:37	MP47515-SD1	5																						X	
18:41	ZZZZZZ	10																							
18:46	ZZZZZZ	5																							
18:51	ZZZZZZ	10																							
18:56	ZZZZZZ	5																							
19:01	ZZZZZZ	5																							
19:06	ZZZZZZ	5																							
19:11	ZZZZZZ	5																							
19:16	ZZZZZZ	5																							
19:20	MA56387-CCV10	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:25	MA56387-CCB11	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:30	ZZZZZZ	1																							
19:35	MP47530-S1	5										X												X	
19:40	MP47530-S2	5										X												X	
19:44	JD91096-2	5										X												X	(a)
19:49	MP47530-SD1	25										X												X	
19:54	ZZZZZZ	5																							
19:59	ZZZZZZ	5																							
20:04	MP47555-B1	1			X									X			X								
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
20:08	MP47555-MB1	1			X									X			X								
20:13	MP47555-LB1	1																							
20:18	MA56387-CCV11	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:23	MA56387-CCB12	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:28	MP47555-LS1	1			X									X			X								
20:33	MP47555-S1	1			X									X			X								
20:38	MP47555-S2	1			X									X			X								
20:42	JD88226-5RU	1			X									X											(a)
20:47	MP47555-SD1	5			X									X			X								
20:52	ZZZZZZ	1																							
20:57	ZZZZZZ	1																							
21:02	ZZZZZZ	1																							
21:06	ZZZZZZ	1																							
21:11	ZZZZZZ	1																							
21:16	MA56387-CCV12	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:21	MA56387-CCB13	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:26	ZZZZZZ	1																							
21:31	MP47523-MB1	1	X			X							X		X						X				
21:35	MP47523-B1	1	X			X							X		X						X				
21:40	MP47523-B2	1	X			X							X		X						X				
21:45	MP47523-S1	1	X			X							X		X						X				
21:50	MP47523-S2	1	X			X							X		X						X				
21:55	JD91091-1	1	X			X							X		X						X				(a)
22:00	MP47523-SD1	5	X			X							X		X						X				
22:05	ZZZZZZ	1																							
22:09	ZZZZZZ	1																							
22:14	MA56387-CCV13	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22:19	MA56387-CCB14	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22:24	ZZZZZZ	1																							
22:29	ZZZZZZ	1																							
22:34	ZZZZZZ	1																							
22:38	ZZZZZZ	1																							
22:43	ZZZZZZ	1																							
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
22:48	ZZZZZZ	1																							
22:53	ZZZZZZ	1																							
22:58	ZZZZZZ	1																							
23:03	ZZZZZZ	1																							
23:07	ZZZZZZ	1																							
23:12	MA56387-CCV14	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23:17	MA56387-CCB15	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23:22	MP47516-MB1	1											X												
23:27	MP47516-B1	1											X												
23:32	MP47516-S1	1								X		X	X												
23:37	MP47516-S2	1								X		X	X												
23:42	JD91067-1	1								X		X													(a)
23:47	MP47516-SD1	5								X		X	X												
23:52	ZZZZZZ	1																							
23:57	ZZZZZZ	1																							
00:01	ZZZZZZ	1																							
00:06	ZZZZZZ	1																							
00:11	MA56387-CCV15	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
00:16	MA56387-CCB16	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
00:21	MP47526-MB1	1			X	X		X		X		X		X			X		X	X				X	
00:26	MP47526-LB1	1																							
00:31	MP47526-B1	1			X	X		X		X		X		X			X		X	X				X	
00:36	MP47526-LS1	5			X	X		X		X		X		X			X		X	X				X	
00:40	MP47526-S1	5			X	X		X		X		X		X			X		X	X				X	
00:45	MP47526-S2	5			X	X		X		X		X		X			X		X	X				X	
00:50	JD90894-5	5			X	X		X		X		X		X			X		X	X				X	(a)
00:55	MP47526-SD1	25			X	X		X		X		X		X			X		X	X					
01:00	ZZZZZZ	1																							
01:05	ZZZZZZ	1																							
01:10	MA56387-CCV16	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
01:15	MA56387-CCB17	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
01:20	ZZZZZZ	1																							
01:25	ZZZZZZ	1																							
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
01:30	ZZZZZZ	1																							
01:35	ZZZZZZ	1																							
01:40	MP47509-MB2	1			X								X	X											
01:45	MP47509-B2	1			X								X	X											
01:50	MP47509-S3	1			X								X	X											
01:54	MP47509-S4	1			X								X	X											
01:59	ZZZZZZ	1																							
02:04	MP47566-MB1	1		X	X	X	X	X		X		X	X	X		X	X		X	X		X		X	
02:09	MA56387-CCV17	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
02:14	MA56387-CCB18	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
02:19	MP47448-MB1	1			X																				
02:24	MP47572-MB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
02:29	MP47572-S1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
02:34	MP47572-SD1	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
02:39	MP47566-B1	1		X	X	X	X	X		X		X	X	X		X	X		X	X		X		X	
02:44	MP47566-S1	1		X	X	X	X	X		X		X	X	X		X	X		X	X		X		X	
02:49	MP47566-S2	1		X	X	X	X	X		X		X	X	X		X	X		X	X		X		X	
02:54	JD91280-1	1											X												(a)
02:59	MP47566-SD1	5		X	X	X	X	X		X		X	X	X		X	X		X	X		X		X	
03:03	ZZZZZZ	1																							
03:09	MA56387-CCV18	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03:13	MA56387-CCB19	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
03:18	ZZZZZZ	1																							
03:23	ZZZZZZ	1																							
03:28	ZZZZZZ	1																							
03:33	MP47536-S1	5														X									
03:38	MP47536-S2	5														X									
03:43	JD91107-10	5												X		X									(a)
03:48	MP47536-SD1	25														X									
03:53	MP47536-SD1	25																							
03:58	MP47576-MB1	1	X						X	X		X	X	X	X	X	X							X	
04:02	MP47576-B1	1	X						X	X		X	X	X	X	X	X							X	
04:07	MA56387-CCV19	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn
04:12	MA56387-CCB20	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
04:17	ZZZZZZ	1																						
04:22	ZZZZZZ	1																						
04:27	ZZZZZZ	1																						
04:32	ZZZZZZ	1																						
04:37	ZZZZZZ	1																						
04:41	ZZZZZZ	1																						
04:46	ZZZZZZ	1																						
04:51	ZZZZZZ	1																						
04:56	ZZZZZZ	1																						
05:01	MA56387-CCV20	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
05:06	MA56387-CCB21	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
05:11	ZZZZZZ	1																						
05:16	ZZZZZZ	1																						
05:21	ZZZZZZ	1																						
05:26	ZZZZZZ	1																						
05:31	ZZZZZZ	1																						
05:36	ZZZZZZ	1																						
05:41	ZZZZZZ	1																						
05:46	ZZZZZZ	5																						

(a) Sample used for QC only; not part of login JD91204.

Element: Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni K Se Ag Na Tl V Zn

INTERNAL STANDARD SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
08:56	MA56387-STD1	8006 R	129820 R	18324 R	12925 R
09:01	MA56387-STD2	7722	126820	18124	12218
09:06	MA56387-ICV1	7867	128150	18294	12425
09:12	MA56387-ICB1	8036	130220	18561	12898
09:20	MA56387-ICCV1	7774	127140	18403	12260
09:26	MA56387-CCB1	7886	128780	18294	12721
09:34	MA56387-CRI1	7801	126660	18006	12530
09:39	MA56387-CRID1	7861	128330	18163	12673
09:44	MA56387-ICSA1	7402	121940	17669	11596
09:49	MA56387-ICSAB1	7393	121280	17589	11595
09:55	MA56387-HSTD1	7771	128010	17989	12680
10:01	MA56387-HSTD2	7371	121150	17523	11518
10:06	ZZZZZZ	7938	129250	18311	13073
10:11	ZZZZZZ	8285	128320	18693	12219
10:16	ZZZZZZ	7417	123290	17623	11736
10:21	ZZZZZZ	7791	126780	17896	12567
10:26	MA56387-CCV1	7609	124400	17666	12066
10:31	MA56387-CCB2	7808	126840	17694	12626
10:36	ZZZZZZ	7660	124750	17503	12360
10:40	ZZZZZZ	25025 !	409400 !	42808 !	38635 !
10:45	MP47458-S1	7311	118600	17292	11589
10:50	MP47458-S2	7322	118920	17342	11597
10:55	JD90849-3	7356	119140	17263	11685
11:00	MP47458-SD1	7561	123600	17489	12147
11:05	MP47556-B1	7697	125400	17928	12249
11:10	MP47556-MB1	7811	127380	17795	12615
11:15	MP47556-LB1	7264	119890	17788	11115
11:20	ZZZZZZ	7495	123730	17551	11712
11:25	MA56387-CCV2	7555	122520	17283	12004
11:30	MA56387-CCB3	7825	126940	17638	12625
11:35	ZZZZZZ	7598	123960	17778	11785
11:40	ZZZZZZ	7518	123360	17884	11681
11:44	MP47556-LS1	7280	120070	18023	11049

INTERNAL STANDARD SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:50	MP47556-S1	7588	124360	17556	11846
11:54	MP47556-S2	7581	124080	17759	11838
11:59	JD91095-1	7518	123740	17705	11800
12:04	MP47556-SD1	7641	125340	17455	12200
12:09	ZZZZZZ	7479	123350	17452	11802
12:14	ZZZZZZ	7531	124480	17720	11828
12:19	ZZZZZZ	7566	123800	17350	11870
12:24	MA56387-CCV3	7666	124680	17588	12132
12:29	MA56387-CCB4	7845	127210	17983	12623
12:34	ZZZZZZ	7568	123770	17753	11832
12:39	ZZZZZZ	7542	124390	17611	11801
12:44	ZZZZZZ	7551	123570	17571	11797
12:49	ZZZZZZ	7538	123630	17522	11771
12:54	ZZZZZZ	7535	123800	17525	11813
12:59	ZZZZZZ	7568	123690	17500	11863
13:04	ZZZZZZ	7635	123490	17425	12105
13:09	MP47515-S1	7641	125140	17601	12155
13:14	MP47515-S2	7635	125390	17676	12147
13:18	JD91062-9	7775	126320	17595	12413
13:23	MA56387-CCV4	7677	123760	17433	12130
13:28	MA56387-CCB5	7890	126240	17772	12666
13:33	MP47558-S1	8028	129500	18373	12302
13:38	MP47558-S2	7905	129060	18489	11802
13:43	JD88846-1R	8132	131660	18539	12600
13:48	MP47558-SD1	7851	127420	17764	12563
13:53	MP47558-PS1	8005	130400	18440	12448
13:58	ZZZZZZ	8088	131670	18656	12612
14:03	ZZZZZZ	8011	130910	18153	12524
14:09	ZZZZZZ	7925	128700	18064	12945
14:13	ZZZZZZ	7923	128090	17814	12761
14:18	ZZZZZZ	7923	128960	17889	12640
14:23	MA56387-CCV5	7708	124640	17333	12189
14:28	MA56387-CCB6	7946	127720	17847	12772

INTERNAL STANDARD SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:33	ZZZZZZ	8278	133540	18919	12758
14:38	ZZZZZZ	8215	133280	18727	12750
14:43	ZZZZZZ	8115	132280	18370	12745
14:48	ZZZZZZ	8188	133240	18830	12710
14:52	ZZZZZZ	8181	134170	18556	12773
14:57	ZZZZZZ	8319	134900	18801	12793
15:02	ZZZZZZ	9014	148110	20585	12581
15:07	ZZZZZZ	9101	149200	20748	12667
15:12	ZZZZZZ	9183	150580	20984	12676
15:18	ZZZZZZ	8994	146170	20437	12576
15:23	MA56387-CCV6	7606	124140	17111	12081
15:27	MA56387-CCB7	7900	127070	17511	12720
15:32	ZZZZZZ	8022	129290	18151	12884
15:37	MP47572-B1	7721	125880	17430	12300
15:42	ZZZZZZ	25127 !	408530 !	42446 !	38917 !
15:47	ZZZZZZ	25325 !	416310 !	42300 !	39194 !
15:52	MP47572-S2	7932	129620	18114	12337
15:57	JD91204-1	8094	131810	18260	12613
16:02	ZZZZZZ	24824 !	409020 !	41700 !	38628 !
16:07	MP47572-PS1	7888	129390	18040	12303
16:12	ZZZZZZ	7966	129680	17919	12530
16:17	JD91204-2	8035	129820	17997	12610
16:22	MA56387-CCV7	7547	122870	16985	12027
16:27	MA56387-CCB8	7693	125470	17078	12491
16:32	JD91204-3	8200	132730	18471	12534
16:37	JD91204-4	8098	130090	18067	12598
16:42	JD91204-5	8089	130390	18106	12585
16:47	JD91204-6	8144	131050	18188	12607
16:52	JD91204-7	8107	130640	18303	12623
16:57	JD91204-8	8117	130610	18139	12632
17:02	JD91204-9	8158	132490	18445	12589
17:07	JD91204-10	8115	130950	18333	12699
17:12	JD91204-11	8094	131120	18068	12593

INTERNAL STANDARD SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
17:17	JD91204-12	8083	131590	18140	12653
17:22	MA56387-CCV8	7534	123190	16816	12041
17:27	MA56387-CCB9	7720	126250	17077	12576
17:32	JD91204-13	8374	135880	18937	12815
17:37	JD91204-14	8098	131340	18121	12608
17:42	JD91204-15	8239	132600	18360	12694
17:47	JD91204-16	8159	130840	18358	12676
17:52	JD91204-17	8344	132390	18650	12707
17:57	ZZZZZZ	7823	127470	18196	11906
18:02	ZZZZZZ	7581	126920	17383	12549
18:07	ZZZZZZ	7643	125160	17027	12431
18:12	ZZZZZZ	7620	123980	16967	12398
18:17	ZZZZZZ	7779	126480	17202	12623
18:22	MA56387-CCV9	7529	123460	16812	12020
18:27	MA56387-CCB10	7675	125690	16970	12500
18:32	MP47515-MB1	7769	126910	17102	12589
18:37	MP47515-SD1	7826	126490	17312	12579
18:41	ZZZZZZ	7749	126100	17398	12251
18:46	ZZZZZZ	7685	125450	17563	12074
18:51	ZZZZZZ	7710	126230	17578	12200
18:56	ZZZZZZ	7629	125690	17466	12032
19:01	ZZZZZZ	8218	135180	18674	12387
19:06	ZZZZZZ	8222	135710	18534	12167
19:11	ZZZZZZ	8227	135470	18480	12344
19:16	ZZZZZZ	8230	135300	18430	12191
19:20	MA56387-CCV10	7683	124030	17206	12148
19:25	MA56387-CCB11	7816	126530	17413	12566
19:30	ZZZZZZ	7910	127760	17700	12661
19:35	MP47530-S1	7877	126410	17950	12440
19:40	MP47530-S2	7772	125840	17701	12321
19:44	JD91096-2	7799	126570	17607	12367
19:49	MP47530-SD1	7760	126150	17401	12488
19:54	ZZZZZZ	7736	125880	17237	12314

INTERNAL STANDARD SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
19:59	ZZZZZZ	7097	117720	17150	10883
20:04	MP47555-B1	7719	124840	17441	12258
20:08	MP47555-MB1	7898	127470	17713	12664
20:13	MP47555-LB1	7866	127200	17835	12582
20:18	MA56387-CCV11	7667	123680	17434	12066
20:23	MA56387-CCB12	7815	125850	17543	12521
20:28	MP47555-LS1	7732	124950	17724	12202
20:33	MP47555-S1	7648	123910	17522	12091
20:38	MP47555-S2	7642	124730	17524	12095
20:42	JD88226-5RU	7815	127920	17717	12506
20:47	MP47555-SD1	7768	126670	17241	12534
20:52	ZZZZZZ	7829	127370	17581	12530
20:57	ZZZZZZ	7843	127000	17564	12477
21:02	ZZZZZZ	7831	126880	17584	12467
21:06	ZZZZZZ	7837	127370	17734	12450
21:11	ZZZZZZ	7767	126370	17588	12289
21:16	MA56387-CCV12	7632	122360	17451	12016
21:21	MA56387-CCB13	7818	125760	17590	12517
21:26	ZZZZZZ	7894	127150	17840	12481
21:31	MP47523-MB1	7880	126360	17765	12591
21:35	MP47523-B1	7730	124240	17665	12193
21:40	MP47523-B2	7722	124670	17691	12190
21:45	MP47523-S1	7727	124960	17828	12161
21:50	MP47523-S2	7720	124470	17754	12151
21:55	JD91091-1	7866	126930	17921	12462
22:00	MP47523-SD1	7830	126350	17809	12490
22:05	ZZZZZZ	7710	125050	17626	12175
22:09	ZZZZZZ	7709	125440	17559	12132
22:14	MA56387-CCV13	7537	121890	17128	11935
22:19	MA56387-CCB14	7756	125950	17256	12493
22:24	ZZZZZZ	7804	126650	17587	12335
22:29	ZZZZZZ	7785	125850	17614	12237
22:34	ZZZZZZ	7804	127090	17747	12303

INTERNAL STANDARD SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
22:38	ZZZZZZ	7828	126110	17766	12299
22:43	ZZZZZZ	7748	125370	17807	12127
22:48	ZZZZZZ	7802	126070	17827	12270
22:53	ZZZZZZ	7744	125090	17922	12134
22:58	ZZZZZZ	No results reported for the elements associated with this internal standard.			
23:03	ZZZZZZ	7729	124850	17608	12195
23:07	ZZZZZZ	7759	125310	17606	12262
23:12	MA56387-CCV14	7606	122230	17286	11958
23:17	MA56387-CCB15	7783	124470	17398	12449
23:22	MP47516-MB1	7858	126370	17735	12535
23:27	MP47516-B1	7707	124000	17623	12167
23:32	MP47516-S1	7614	123730	17732	11878
23:37	MP47516-S2	7609	124000	17711	11874
23:42	JD91067-1	7680	125570	17734	12058
23:47	MP47516-SD1	7737	124650	17641	12280
23:52	ZZZZZZ	7674	125070	17769	11934
23:57	ZZZZZZ	7682	124400	17780	12024
00:01	ZZZZZZ	7737	124780	17708	12222
00:06	ZZZZZZ	7578	123630	17503	11907
00:11	MA56387-CCV15	7602	122490	17477	11935
00:16	MA56387-CCB16	7795	125240	17521	12451
00:21	MP47526-MB1	7856	126640	17799	12518
00:26	MP47526-LB1	7257	118730	17896	10964
00:31	MP47526-B1	7705	124200	17788	12140
00:36	MP47526-LS1	7604	123150	17771	11721
00:40	MP47526-S1	7557	122590	17704	11652
00:45	MP47526-S2	7566	122940	17819	11651
00:50	JD90894-5	7567	122900	17611	11672
00:55	MP47526-SD1	7686	124000	17610	12078
01:00	ZZZZZZ	7525	121870	17639	11616
01:05	ZZZZZZ	7555	122340	17628	11664
01:10	MA56387-CCV16	7617	124890	17483	11952
01:15	MA56387-CCB17	7758	124940	17659	12392

INTERNAL STANDARD SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
01:20	ZZZZZZ	7608	123220	17682	11810
01:25	ZZZZZZ	7591	122840	17680	11774
01:30	ZZZZZZ	7534	122110	17656	11645
01:35	ZZZZZZ	7592	123320	17767	11699
01:40	MP47509-MB2	7775	125700	17894	12406
01:45	MP47509-B2	7667	124510	17738	12089
01:50	MP47509-S3	7661	124010	17724	12063
01:54	MP47509-S4	7653	123670	17567	12053
01:59	ZZZZZZ	7486	121200	17265	11855
02:04	MP47566-MB1	7677	123110	17424	12371
02:09	MA56387-CCV17	7543	121630	17182	11861
02:14	MA56387-CCB18	7813	125470	17607	12491
02:19	MP47448-MB1	7804	126900	17705	12458
02:24	MP47572-MB1	7816	126290	17632	12490
02:29	MP47572-S1	7950	128380	18327	12201
02:34	MP47572-SD1	7778	124630	17533	12318
02:39	MP47566-B1	7590	121660	17260	12038
02:44	MP47566-S1	7594	121980	17499	12028
02:49	MP47566-S2	7537	121490	17383	11951
02:54	JD91280-1	7679	123810	17430	12378
02:59	MP47566-SD1	7594	122810	17089	12213
03:03	ZZZZZZ	6845	116610	17064	10803
03:09	MA56387-CCV18	7542	122350	17268	11894
03:13	MA56387-CCB19	7709	124670	17463	12356
03:18	ZZZZZZ	7309	119890	17027	11388
03:23	ZZZZZZ	6676	110370	16883	10051
03:28	ZZZZZZ	7555	122650	17240	12016
03:33	MP47536-S1	7563	121740	17028	12049
03:38	MP47536-S2	7581	122290	17043	12062
03:43	JD91107-10	7555	123550	17015	12108
03:48	MP47536-SD1	7693	124620	17175	12354
03:53	MP47536-SD1	7544	122100	17136	11984
03:58	MP47576-MB1	7787	125300	17571	12462

INTERNAL STANDARD SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56387
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
04:02	MP47576-B1	7595	124110	17385	12037
04:07	MA56387-CCV19	7575	122830	17216	11948
04:12	MA56387-CCB20	7724	125130	17321	12401
04:17	ZZZZZZ	7541	124350	17483	11909
04:22	ZZZZZZ	7574	123890	17519	11829
04:27	ZZZZZZ	7588	124510	17460	11842
04:32	ZZZZZZ	7669	124950	17620	12007
04:37	ZZZZZZ	7535	124420	17549	11860
04:41	ZZZZZZ	7532	123690	17447	11837
04:46	ZZZZZZ	7503	123400	17514	11619
04:51	ZZZZZZ	7794	125240	17592	12077
04:56	ZZZZZZ	26452 !	999999 !	17191	40212 !
05:01	MA56387-CCV20	7535	122200	17208	11886
05:06	MA56387-CCB21	7725	124730	17267	12385
05:11	ZZZZZZ	7719	124100	17304	12466
05:16	ZZZZZZ	7321	120180	17070	11582
05:21	ZZZZZZ	7469	123250	17520	11787
05:26	ZZZZZZ	7466	121410	999999 !	11909
05:31	ZZZZZZ	7720	124820	17734	12225
05:36	ZZZZZZ	7722	125390	17871	12229
05:41	ZZZZZZ	6678	111910	17041	10222
05:46	ZZZZZZ	7772	124430	17100	12434

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56387 Units: ug/l

Time:			09:12		09:26		10:31		11:30	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	17	3.80	<200	6.60	<200	-3.90	<200	4.10	<200
Antimony	6.0	1.7	0.200	<6.0	0.100	<6.0	-0.800	<6.0	-0.900	<6.0
Arsenic	3.0	2.1	-0.500	<3.0	-0.600	<3.0	0.100	<3.0	-0.700	<3.0
Barium	200	.8	0.200	<200	0.400	<200	0.300	<200	0.500	<200
Beryllium	1.0	.3	0.100	<1.0	0.100	<1.0	0.00	<1.0	0.100	<1.0
Bismuth	20	2.3								
Boron	100	2.3								
Cadmium	3.0	.3	0.00	<3.0	0.00	<3.0	0.00	<3.0	-0.300	<3.0
Calcium	5000	6.6	4.40	<5000	2.60	<5000	4.20	<5000	0.700	<5000
Cerium	100									
Chromium	10	.3	0.100	<10	0.00	<10	0.00	<10	0.100	<10
Cobalt	50	.4	-0.100	<50	0.100	<50	-0.100	<50	-0.300	<50
Copper	10	.8	0.400	<10	0.200	<10	0.400	<10	0.700	<10
Iron	100	5.3	1.60	<100	2.40	<100	2.60	<100	4.70	<100
Lead	3.0	1.1	-0.300	<3.0	-0.100	<3.0	0.800	<3.0	-0.100	<3.0
Lithium	50	4.8								
Magnesium	5000	32	-3.70	<5000	-11.4	<5000	3.80	<5000	-5.40	<5000
Manganese	15	.1	0.00	<15	0.00	<15	0.00	<15	0.00	<15
Molybdenum	20	.6								
Nickel	10	.4	-0.100	<10	-0.200	<10	-0.100	<10	-0.100	<10
Phosphorus	50	1.2								
Potassium	10000	77	-42.4	<10000	17.9	<10000	42.5	<10000	-19.6	<10000
Selenium	10	3.2	0.00	<10	0.400	<10	-0.300	<10	1.00	<10
Silicon	200	1.7								
Silver	10	1	0.400	<10	0.400	<10	0.500	<10	0.900	<10
Sodium	10000	34	2.20	<10000	-9.00	<10000	-6.80	<10000	28.1	<10000
Strontium	10	.3								
Sulfur	50	3								
Thallium	10	1.8	0.00	<10	-1.40	<10	-0.300	<10	-0.300	<10
Tin	10	.8								
Titanium	10	.5								
Tungsten	50	2.6								
Vanadium	50	.6	0.00	<50	-0.200	<50	-0.300	<50	-0.200	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56387 Units: ug/l

Time:			09:12		09:26		10:31		11:30	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.1	0.00	<20	-0.100	<20	-0.100	<20	0.00	<20
Zirconium	10	.3								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56387 Units: ug/l

Time:			12:29		13:28		14:28		15:27	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	17	4.10	<200	-1.60	<200	9.60	<200	8.40	<200
Antimony	6.0	1.7	-0.100	<6.0	-0.300	<6.0	-0.400	<6.0	-1.00	<6.0
Arsenic	3.0	2.1	-0.800	<3.0	-0.400	<3.0	-0.300	<3.0	-0.200	<3.0
Barium	200	.8	0.200	<200	0.100	<200	0.200	<200	0.00	<200
Beryllium	1.0	.3	0.100	<1.0	0.100	<1.0	0.100	<1.0	0.100	<1.0
Bismuth	20	2.3								
Boron	100	2.3								
Cadmium	3.0	.3	-0.200	<3.0	-0.100	<3.0	0.00	<3.0	-0.100	<3.0
Calcium	5000	6.6	3.90	<5000	2.20	<5000	3.10	<5000	2.00	<5000
Cerium	100									
Chromium	10	.3	0.200	<10	0.200	<10	-0.100	<10	-0.100	<10
Cobalt	50	.4	0.00	<50	0.00	<50	0.100	<50	-0.200	<50
Copper	10	.8	1.40	<10	1.50	<10	0.900	<10	0.700	<10
Iron	100	5.3	1.30	<100	1.70	<100	1.50	<100	1.90	<100
Lead	3.0	1.1	0.100	<3.0	0.300	<3.0	0.00	<3.0	0.300	<3.0
Lithium	50	4.8								
Magnesium	5000	32	-0.900	<5000	-0.900	<5000	-2.50	<5000	7.00	<5000
Manganese	15	.1	0.00	<15	0.00	<15	0.00	<15	0.100	<15
Molybdenum	20	.6								
Nickel	10	.4	-1.10	<10	-0.300	<10	-0.100	<10	-0.100	<10
Phosphorus	50	1.2								
Potassium	10000	77	-28.5	<10000	-56.2	<10000	-155	<10000	14.6	<10000
Selenium	10	3.2	1.10	<10	0.700	<10	0.500	<10	0.500	<10
Silicon	200	1.7								
Silver	10	1	0.500	<10	0.800	<10	0.700	<10	0.300	<10
Sodium	10000	34	5.70	<10000	-1.50	<10000	-15.0	<10000	-10.2	<10000
Strontium	10	.3								
Sulfur	50	3								
Thallium	10	1.8	-0.200	<10	-0.200	<10	0.100	<10	-0.100	<10
Tin	10	.8								
Titanium	10	.5								
Tungsten	50	2.6								
Vanadium	50	.6	0.00	<50	0.100	<50	0.400	<50	-0.200	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56387 Units: ug/l

Time: / Sample ID:			12:29 CCB4		13:28 CCB5		14:28 CCB6		15:27 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.1	-0.100	<20	0.200	<20	0.00	<20	0.00	<20
Zirconium	10	.3								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56387 Units: ug/l

Time:			16:27		17:27		18:27		19:25	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	17	-7.40	<200	4.10	<200	-4.30	<200	-13.2	<200
Antimony	6.0	1.7	0.200	<6.0	0.400	<6.0	-0.200	<6.0	-0.900	<6.0
Arsenic	3.0	2.1	-0.400	<3.0	-0.600	<3.0	-0.900	<3.0	-1.10	<3.0
Barium	200	.8	0.200	<200	0.100	<200	0.200	<200	0.100	<200
Beryllium	1.0	.3	0.100	<1.0	0.00	<1.0	0.100	<1.0	0.100	<1.0
Bismuth	20	2.3								
Boron	100	2.3								
Cadmium	3.0	.3	0.200	<3.0	-0.100	<3.0	0.100	<3.0	0.00	<3.0
Calcium	5000	6.6	3.70	<5000	1.90	<5000	0.900	<5000	5.30	<5000
Cerium	100									
Chromium	10	.3	0.00	<10	-0.100	<10	0.00	<10	0.200	<10
Cobalt	50	.4	-0.200	<50	0.00	<50	-0.200	<50	0.100	<50
Copper	10	.8	0.300	<10	0.100	<10	0.00	<10	1.50	<10
Iron	100	5.3	3.60	<100	3.00	<100	1.50	<100	2.40	<100
Lead	3.0	1.1	-0.200	<3.0	0.00	<3.0	-0.300	<3.0	0.00	<3.0
Lithium	50	4.8								
Magnesium	5000	32	-16.7	<5000	-11.8	<5000	-2.80	<5000	-6.20	<5000
Manganese	15	.1	0.00	<15	0.00	<15	0.00	<15	0.00	<15
Molybdenum	20	.6								
Nickel	10	.4	-0.100	<10	-0.200	<10	-0.100	<10	0.00	<10
Phosphorus	50	1.2								
Potassium	10000	77	8.30	<10000	-15.1	<10000	7.90	<10000	-90.6	<10000
Selenium	10	3.2	1.10	<10	1.50	<10	1.30	<10	0.100	<10
Silicon	200	1.7								
Silver	10	1	0.600	<10	0.800	<10	0.800	<10	1.10	<10
Sodium	10000	34	-7.20	<10000	-12.7	<10000	-13.9	<10000	-22.4	<10000
Strontium	10	.3								
Sulfur	50	3								
Thallium	10	1.8	-0.700	<10	-0.500	<10	0.00	<10	0.200	<10
Tin	10	.8								
Titanium	10	.5								
Tungsten	50	2.6								
Vanadium	50	.6	0.100	<50	0.00	<50	0.00	<50	0.00	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56387 Units: ug/l

Time: / Sample ID:			16:27 CCB8		17:27 CCB9		18:27 CCB10		19:25 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.1	-0.100	<20	-0.200	<20	-0.200	<20	-0.200	<20
Zirconium	10	.3								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56387 Units: ug/l

Time:			20:23		21:21		22:19		23:17	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	17	9.40	<200	3.70	<200	-2.40	<200	-7.30	<200
Antimony	6.0	1.7	0.300	<100	0.100	<100	-1.50	<6.0	-1.50	<6.0
Arsenic	3.0	2.1	-0.900	<100	0.00	<100	-0.500	<3.0	-0.200	<3.0
Barium	200	.8	0.300	<200	0.600	<200	0.300	<200	0.00	<200
Beryllium	1.0	.3	0.100	<2.0	0.100	<2.0	0.100	<1.0	0.100	<1.0
Bismuth	20	2.3								
Boron	100	2.3								
Cadmium	3.0	.3	0.100	<4.0	0.00	<4.0	-0.200	<3.0	0.00	<3.0
Calcium	5000	6.6	3.70	<5000	2.80	<5000	1.90	<5000	4.20	<5000
Cerium	100									
Chromium	10	.3	0.100	<10	0.00	<10	0.300	<10	0.100	<10
Cobalt	50	.4	0.100	<50	0.00	<50	0.00	<50	-0.200	<50
Copper	10	.8	1.90	<10	1.70	<10	1.50	<10	1.80	<10
Iron	100	5.3	2.30	<100	2.40	<100	3.80	<100	0.700	<100
Lead	3.0	1.1	-0.700	<100	-0.300	<100	-0.400	<3.0	-0.100	<3.0
Lithium	50	4.8								
Magnesium	5000	32	-14.1	<5000	-8.20	<5000	-9.70	<5000	-8.40	<5000
Manganese	15	.1	0.00	<15	0.00	<15	0.00	<15	0.00	<15
Molybdenum	20	.6								
Nickel	10	.4	-0.300	<10	-0.500	<10	-0.200	<10	-0.200	<10
Phosphorus	50	1.2								
Potassium	10000	77	-97.9	<10000	-105	<10000	-35.3	<10000	-123	<10000
Selenium	10	3.2	1.60	<100	0.200	<100	0.600	<10	0.700	<10
Silicon	200	1.7								
Silver	10	1	0.900	<10	1.00	<10	0.600	<10	1.30	<10
Sodium	10000	34	-24.0	<10000	-24.7	<10000	-24.6	<10000	-28.2	<10000
Strontium	10	.3								
Sulfur	50	3								
Thallium	10	1.8	-0.100	<100	-0.800	<100	-0.200	<10	-0.700	<10
Tin	10	.8								
Titanium	10	.5								
Tungsten	50	2.6								
Vanadium	50	.6	0.00	<50	0.00	<50	0.00	<50	0.300	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56387 Units: ug/l

Time:			20:23		21:21		22:19		23:17	
Sample ID:			CCB12		CCB13		CCB14		CCB15	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.1	-0.200	<20	-0.300	<20	-0.200	<20	-0.200	<20
Zirconium	10	.3								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56387 Units: ug/l

Time:			00:16		01:15		02:14		03:13	
Sample ID:			CCB16		CCB17		CCB18		CCB19	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	17	-11.1	<200	-3.20	<200	1.80	<200	-1.70	<200
Antimony	6.0	1.7	-0.200	<6.0	-0.500	<6.0	-0.700	<6.0	-1.60	<6.0
Arsenic	3.0	2.1	0.200	<3.0	-0.800	<3.0	-0.100	<3.0	-0.900	<3.0
Barium	200	.8	0.00	<200	0.100	<200	-0.100	<200	-0.100	<200
Beryllium	1.0	.3	0.100	<1.0	0.100	<1.0	0.100	<1.0	0.100	<1.0
Bismuth	20	2.3								
Boron	100	2.3								
Cadmium	3.0	.3	0.00	<3.0	-0.200	<3.0	-0.100	<3.0	0.00	<3.0
Calcium	5000	6.6	1.00	<5000	1.30	<5000	4.30	<5000	5.00	<5000
Cerium	100									
Chromium	10	.3	0.300	<10	-0.100	<10	0.100	<10	0.100	<10
Cobalt	50	.4	0.00	<50	0.200	<50	0.00	<50	0.00	<50
Copper	10	.8	2.20	<10	2.20	<10	2.10	<10	1.60	<10
Iron	100	5.3	2.60	<100	1.10	<100	2.40	<100	2.10	<100
Lead	3.0	1.1	-0.400	<3.0	-0.300	<3.0	-0.200	<3.0	-0.300	<3.0
Lithium	50	4.8								
Magnesium	5000	32	-5.60	<5000	-7.90	<5000	-7.20	<5000	-18.0	<5000
Manganese	15	.1	0.00	<15	0.00	<15	0.00	<15	0.00	<15
Molybdenum	20	.6								
Nickel	10	.4	-0.400	<10	-0.900	<10	-0.200	<10	-0.100	<10
Phosphorus	50	1.2								
Potassium	10000	77	-102	<10000	-153	<10000	-99.2	<10000	-12.4	<10000
Selenium	10	3.2	-0.600	<10	1.30	<10	0.600	<10	-0.200	<10
Silicon	200	1.7								
Silver	10	1	1.00	<10	1.40	<10	0.900	<10	0.800	<10
Sodium	10000	34	-22.1	<10000	-3.80	<10000	-20.5	<10000	9.10	<10000
Strontium	10	.3								
Sulfur	50	3								
Thallium	10	1.8	0.100	<10	-0.100	<10	-0.700	<10	-0.800	<10
Tin	10	.8								
Titanium	10	.5								
Tungsten	50	2.6								
Vanadium	50	.6	0.300	<50	0.100	<50	-0.100	<50	0.00	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56387 Units: ug/l

Time:			00:16		01:15		02:14		03:13	
Sample ID:			CCB16		CCB17		CCB18		CCB19	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.1	-0.200	<20	-0.100	<20	-0.100	<20	-0.100	<20
Zirconium	10	.3								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA56387 Units: ug/l

Time:		09:20	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Aluminum	40000	39800	99.5
Antimony	2000	2060	103.0
Arsenic	2000	2060	103.0
Barium	2000	2020	101.0
Beryllium	2000	1980	99.0
Bismuth			
Boron			
Cadmium	2000	2090	104.5
Calcium	40000	40200	100.5
Cerium			
Chromium	2000	2070	103.5
Cobalt	2000	2050	102.5
Copper	2000	2010	100.5
Iron	40000	40500	101.3
Lead	2000	2050	102.5
Lithium			
Magnesium	40000	40300	100.8
Manganese	2000	2050	102.5
Molybdenum			
Nickel	2000	2080	104.0
Phosphorus			
Potassium	40000	40300	100.8
Selenium	2000	2060	103.0
Silicon			
Silver	250	247	98.8
Sodium	40000	40400	101.0
Strontium			
Sulfur			
Thallium	2000	2070	103.5
Tin			
Titanium			
Tungsten			
Vanadium	2000	2060	103.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA56387 Units: ug/l

Time:		09:20	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Zinc	2000	2080	104.0
Zirconium			

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56387 Units: ug/l

Time:		09:06			10:26			11:25	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40300	100.8	40000	40300	100.8	40000	40800	102.0
Antimony	2000	2020	101.0	2000	2070	103.5	2000	2080	104.0
Arsenic	2000	2000	100.0	2000	2070	103.5	2000	2080	104.0
Barium	2000	2020	101.0	2000	2030	101.5	2000	2050	102.5
Beryllium	2000	2030	101.5	2000	2020	101.0	2000	2060	103.0
Bismuth									
Boron									
Cadmium	2000	2040	102.0	2000	2100	105.0	2000	2110	105.5
Calcium	40000	39800	99.5	40000	40900	102.3	40000	41500	103.8
Cerium									
Chromium	2000	2050	102.5	2000	2080	104.0	2000	2090	104.5
Cobalt	2000	2000	100.0	2000	2070	103.5	2000	2080	104.0
Copper	2000	2020	101.0	2000	2020	101.0	2000	2040	102.0
Iron	40000	39900	99.8	40000	40800	102.0	40000	41400	103.5
Lead	2000	2070	103.5	2000	2060	103.0	2000	2060	103.0
Lithium									
Magnesium	40000	39400	98.5	40000	40600	101.5	40000	41200	103.0
Manganese	2000	2090	104.5	2000	2080	104.0	2000	2110	105.5
Molybdenum									
Nickel	2000	2060	103.0	2000	2070	103.5	2000	2080	104.0
Phosphorus									
Potassium	40000	39500	98.8	40000	40900	102.3	40000	41100	102.8
Selenium	2000	2000	100.0	2000	2060	103.0	2000	2070	103.5
Silicon									
Silver	250	252	100.8	250	249	99.6	250	250	100.0
Sodium	40000	39800	99.5	40000	41200	103.0	40000	41500	103.8
Strontium									
Sulfur									
Thallium	2000	2050	102.5	2000	2090	104.5	2000	2090	104.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	2020	101.0	2000	2060	103.0	2000	2080	104.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56387 Units: ug/l

Time:		09:06			10:26			11:25	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2060	103.0	2000	2090	104.5	2000	2100	105.0
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56387 Units: ug/l

Time:		12:24			13:23			14:23	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40400	101.0	40000	40100	100.3	40000	40400	101.0
Antimony	2000	2080	104.0	2000	2060	103.0	2000	2060	103.0
Arsenic	2000	2080	104.0	2000	2070	103.5	2000	2070	103.5
Barium	2000	2040	102.0	2000	2020	101.0	2000	2030	101.5
Beryllium	2000	2030	101.5	2000	2010	100.5	2000	2030	101.5
Bismuth									
Boron									
Cadmium	2000	2100	105.0	2000	2090	104.5	2000	2090	104.5
Calcium	40000	41100	102.8	40000	40900	102.3	40000	41100	102.8
Cerium									
Chromium	2000	2080	104.0	2000	2080	104.0	2000	2080	104.0
Cobalt	2000	2070	103.5	2000	2050	102.5	2000	2060	103.0
Copper	2000	2030	101.5	2000	2030	101.5	2000	2030	101.5
Iron	40000	41100	102.8	40000	40800	102.0	40000	41000	102.5
Lead	2000	2060	103.0	2000	2060	103.0	2000	2060	103.0
Lithium									
Magnesium	40000	40900	102.3	40000	40700	101.8	40000	40900	102.3
Manganese	2000	2110	105.5	2000	2100	105.0	2000	2130	106.5
Molybdenum									
Nickel	2000	2080	104.0	2000	2070	103.5	2000	2070	103.5
Phosphorus									
Potassium	40000	40700	101.8	40000	40600	101.5	40000	40600	101.5
Selenium	2000	2080	104.0	2000	2060	103.0	2000	2060	103.0
Silicon									
Silver	250	249	99.6	250	248	99.2	250	248	99.2
Sodium	40000	41000	102.5	40000	40800	102.0	40000	40900	102.3
Strontium									
Sulfur									
Thallium	2000	2080	104.0	2000	2070	103.5	2000	2070	103.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	2070	103.5	2000	2070	103.5	2000	2070	103.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56387 Units: ug/l

Time:		12:24			13:23			14:23	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2090	104.5	2000	2080	104.0	2000	2090	104.5
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56387 Units: ug/l

Time:		15:23			16:22			17:22	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40400	101.0	40000	40500	101.3	40000	41000	102.5
Antimony	2000	2070	103.5	2000	2070	103.5	2000	2070	103.5
Arsenic	2000	2070	103.5	2000	2080	104.0	2000	2090	104.5
Barium	2000	2020	101.0	2000	2030	101.5	2000	2060	103.0
Beryllium	2000	2020	101.0	2000	2030	101.5	2000	2080	104.0
Bismuth									
Boron									
Cadmium	2000	2100	105.0	2000	2110	105.5	2000	2100	105.0
Calcium	40000	40900	102.3	40000	41000	102.5	40000	41700	104.3
Cerium									
Chromium	2000	2080	104.0	2000	2090	104.5	2000	2070	103.5
Cobalt	2000	2070	103.5	2000	2070	103.5	2000	2090	104.5
Copper	2000	2010	100.5	2000	2020	101.0	2000	2040	102.0
Iron	40000	40600	101.5	40000	40700	101.8	40000	41300	103.3
Lead	2000	2060	103.0	2000	2060	103.0	2000	2060	103.0
Lithium									
Magnesium	40000	40600	101.5	40000	40700	101.8	40000	41100	102.8
Manganese	2000	2080	104.0	2000	2110	105.5	2000	2120	106.0
Molybdenum									
Nickel	2000	2070	103.5	2000	2070	103.5	2000	2060	103.0
Phosphorus									
Potassium	40000	40700	101.8	40000	40600	101.5	40000	40700	101.8
Selenium	2000	2060	103.0	2000	2070	103.5	2000	2060	103.0
Silicon									
Silver	250	249	99.6	250	250	100.0	250	252	100.8
Sodium	40000	40800	102.0	40000	40800	102.0	40000	41100	102.8
Strontium									
Sulfur									
Thallium	2000	2080	104.0	2000	2090	104.5	2000	2090	104.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	2070	103.5	2000	2070	103.5	2000	2070	103.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56387 Units: ug/l

Time:		15:23			16:22			17:22	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2090	104.5	2000	2100	105.0	2000	2100	105.0
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56387 Units: ug/l

Time:		18:22			19:20			20:18	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40800	102.0	40000	40500	101.3	40000	40100	100.3
Antimony	2000	2070	103.5	2000	2080	104.0	2000	2100	105.0
Arsenic	2000	2080	104.0	2000	2080	104.0	2000	2090	104.5
Barium	2000	2050	102.5	2000	2050	102.5	2000	2050	102.5
Beryllium	2000	2060	103.0	2000	2040	102.0	2000	1980	99.0
Bismuth									
Boron									
Cadmium	2000	2110	105.5	2000	2100	105.0	2000	2140	107.0
Calcium	40000	41500	103.8	40000	41300	103.3	40000	40800	102.0
Cerium									
Chromium	2000	2070	103.5	2000	2090	104.5	2000	2130	106.5
Cobalt	2000	2080	104.0	2000	2070	103.5	2000	2070	103.5
Copper	2000	2030	101.5	2000	2050	102.5	2000	2060	103.0
Iron	40000	41100	102.8	40000	41100	102.8	40000	40900	102.3
Lead	2000	2060	103.0	2000	2070	103.5	2000	2090	104.5
Lithium									
Magnesium	40000	41100	102.8	40000	40900	102.3	40000	40600	101.5
Manganese	2000	2120	106.0	2000	2110	105.5	2000	2090	104.5
Molybdenum									
Nickel	2000	2070	103.5	2000	2080	104.0	2000	2120	106.0
Phosphorus									
Potassium	40000	40700	101.8	40000	40600	101.5	40000	40700	101.8
Selenium	2000	2070	103.5	2000	2080	104.0	2000	2110	105.5
Silicon									
Silver	250	251	100.4	250	252	100.8	250	256	102.4
Sodium	40000	41000	102.5	40000	40700	101.8	40000	40500	101.3
Strontium									
Sulfur									
Thallium	2000	2090	104.5	2000	2080	104.0	2000	2080	104.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	2070	103.5	2000	2080	104.0	2000	2110	105.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56387 Units: ug/l

Time:		18:22			19:20			20:18	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2100	105.0	2000	2090	104.5	2000	2110	105.5
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56387 Units: ug/l

Time:		21:16			22:14			23:12	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40100	100.3	40000	40700	101.8	40000	40600	101.5
Antimony	2000	2100	105.0	2000	2100	105.0	2000	2110	105.5
Arsenic	2000	2090	104.5	2000	2100	105.0	2000	2100	105.0
Barium	2000	2040	102.0	2000	2060	103.0	2000	2080	104.0
Beryllium	2000	1970	98.5	2000	2020	101.0	2000	2010	100.5
Bismuth									
Boron									
Cadmium	2000	2140	107.0	2000	2140	107.0	2000	2150	107.5
Calcium	40000	40600	101.5	40000	41200	103.0	40000	41300	103.3
Cerium									
Chromium	2000	2140	107.0	2000	2130	106.5	2000	2150	107.5
Cobalt	2000	2060	103.0	2000	2080	104.0	2000	2070	103.5
Copper	2000	2070	103.5	2000	2070	103.5	2000	2090	104.5
Iron	40000	40800	102.0	40000	41100	102.8	40000	41400	103.5
Lead	2000	2090	104.5	2000	2090	104.5	2000	2100	105.0
Lithium									
Magnesium	40000	40600	101.5	40000	41000	102.5	40000	41200	103.0
Manganese	2000	2080	104.0	2000	2120	106.0	2000	2100	105.0
Molybdenum									
Nickel	2000	2120	106.0	2000	2110	105.5	2000	2130	106.5
Phosphorus									
Potassium	40000	40700	101.8	40000	41100	102.8	40000	41100	102.8
Selenium	2000	2100	105.0	2000	2100	105.0	2000	2110	105.5
Silicon									
Silver	250	256	102.4	250	256	102.4	250	258	103.2
Sodium	40000	40500	101.3	40000	40900	102.3	40000	41000	102.5
Strontium									
Sulfur									
Thallium	2000	2080	104.0	2000	2090	104.5	2000	2090	104.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	2120	106.0	2000	2110	105.5	2000	2130	106.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56387 Units: ug/l

Time:		21:16			22:14			23:12	
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2110	105.5	2000	2120	106.0	2000	2120	106.0
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56387 Units: ug/l

Time:		00:11			01:10			02:09	
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40200	100.5	40000	40200	100.5	40000	40600	101.5
Antimony	2000	2120	106.0	2000	2120	106.0	2000	2130	106.5
Arsenic	2000	2100	105.0	2000	2100	105.0	2000	2110	105.5
Barium	2000	2060	103.0	2000	2060	103.0	2000	2070	103.5
Beryllium	2000	1970	98.5	2000	1970	98.5	2000	1990	99.5
Bismuth									
Boron									
Cadmium	2000	2160	108.0	2000	2160	108.0	2000	2170	108.5
Calcium	40000	40700	101.8	40000	40600	101.5	40000	40900	102.3
Cerium									
Chromium	2000	2160	108.0	2000	2110	105.5	2000	2160	108.0
Cobalt	2000	2070	103.5	2000	2070	103.5	2000	2080	104.0
Copper	2000	2090	104.5	2000	2030	101.5	2000	2090	104.5
Iron	40000	40800	102.0	40000	40600	101.5	40000	40800	102.0
Lead	2000	2110	105.5	2000	2100	105.0	2000	2110	105.5
Lithium									
Magnesium	40000	40700	101.8	40000	40500	101.3	40000	40600	101.5
Manganese	2000	2100	105.0	2000	2050	102.5	2000	2110	105.5
Molybdenum									
Nickel	2000	2140	107.0	2000	2140	107.0	2000	2150	107.5
Phosphorus									
Potassium	40000	41000	102.5	40000	41000	102.5	40000	41400	103.5
Selenium	2000	2120	106.0	2000	2110	105.5	2000	2130	106.5
Silicon									
Silver	250	260	104.0	250	254	101.6	250	260	104.0
Sodium	40000	40700	101.8	40000	40600	101.5	40000	41000	102.5
Strontium									
Sulfur									
Thallium	2000	2100	105.0	2000	2090	104.5	2000	2100	105.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	2140	107.0	2000	2090	104.5	2000	2140	107.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56387 Units: ug/l

Time:		00:11			01:10			02:09	
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2120	106.0	2000	2120	106.0	2000	2130	106.5
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56387 Units: ug/l

Time:		03:09	
Sample ID:	CCV	CCV18	
Metal	True	Results	% Rec
Aluminum	40000	40700	101.8
Antimony	2000	2130	106.5
Arsenic	2000	2120	106.0
Barium	2000	2080	104.0
Beryllium	2000	2000	100.0
Bismuth			
Boron			
Cadmium	2000	2170	108.5
Calcium	40000	41000	102.5
Cerium			
Chromium	2000	2150	107.5
Cobalt	2000	2090	104.5
Copper	2000	2090	104.5
Iron	40000	40700	101.8
Lead	2000	2110	105.5
Lithium			
Magnesium	40000	40600	101.5
Manganese	2000	2110	105.5
Molybdenum			
Nickel	2000	2140	107.0
Phosphorus			
Potassium	40000	41500	103.8
Selenium	2000	2140	107.0
Silicon			
Silver	250	259	103.6
Sodium	40000	41100	102.8
Strontium			
Sulfur			
Thallium	2000	2100	105.0
Tin			
Titanium			
Tungsten			
Vanadium	2000	2130	106.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56387 Units: ug/l

Time:		03:09	
Sample ID:	CCV	CCV18	
Metal	True	Results	% Rec
Zinc	2000	2130	106.5
Zirconium			

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56387 Units: ug/l

Time:		09:55			10:01	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum				300000	303000	101.0
Antimony	8000	8420	105.3			
Arsenic	8000	8490	106.1			
Barium	8000	8160	102.0			
Beryllium	8000	8240	103.0			
Bismuth						
Boron						
Cadmium	8000	7830	97.9			
Calcium				200000	202000	101.0
Cerium						
Chromium	8000	8490	106.1			
Cobalt	8000	8370	104.6			
Copper	8000	7990	99.9			
Iron				200000	198000	99.0
Lead	8000	8450	105.6			
Lithium						
Magnesium				300000	296000	98.7
Manganese	8000	8340	104.3			
Molybdenum						
Nickel	8000	8380	104.8			
Phosphorus						
Potassium				200000	203000	101.5
Selenium	8000	8270	103.4			
Silicon						
Silver	625	666	106.6			
Sodium				200000	203000	101.5
Strontium						
Sulfur						
Thallium	8000	8400	105.0			
Tin						
Titanium						
Tungsten						
Vanadium	8000	8370	104.6			

HIGH STANDARD CHECK SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56387 Units: ug/l

Time:		09:55			10:01	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Zinc	8000	8510	106.4			
Zirconium						

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56387 Units: ug/l

Time:				09:34		09:39	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Aluminum	200	500	100	215	107.5	116	116.0
Antimony	6.0	20	3.0	4.90	81.7		
Arsenic	8.0	20	3.0	8.40	105.0	2.70	90.0
Barium	200		4.0	204	102.0	4.30	107.5
Beryllium	2.0		1.0	2.10	105.0	1.10	110.0
Bismuth	20						
Boron	100		10				
Cadmium	3.0		1.0	3.20	106.7	1.20	120.0
Calcium	5000	2000	1000	5180	103.6	1040	104.0
Cerium							
Chromium	10		2.0	10.8	108.0	2.20	110.0
Cobalt	50		3.0	52.7	105.4	3.20	106.7
Copper	10		2.0	10.0	100.0		
Iron	100	500		107	107.0		
Lead	3.0	20	2.5	3.60	120.0		
Lithium	50						
Magnesium	5000	2000	100	5300	106.0	99.1	99.1
Manganese	15		3.0	16.0	106.7	3.30	110.0
Molybdenum	20						
Nickel	10		4.0	11.1	111.0	4.20	105.0
Phosphorus	50						
Potassium	5000		2000	5130	102.6	2030	101.5
Selenium	10	20	5.0	10.5	105.0	6.00	120.0
Silicon	200						
Silver	5.0		2.0	6.00	120.0		
Sodium	5000		1000	5220	104.4	1040	104.0
Strontium	10						
Sulfur	50						
Thallium	10		2.0	10.0	100.0	1.80	90.0
Tin	10						
Titanium	10						
Tungsten	50						
Vanadium	50		2.0	52.8	105.6	2.10	105.0

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56387 Units: ug/l

Time:				09:34		09:39	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Zinc	20		10	23.7	118.5		
Zirconium	10						

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56387 Units: ug/l

Time:			09:44		09:49	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	498000	99.6	495000	99.0
Antimony		1000	2.90		1020	102.0
Arsenic		1000	-0.800		997	99.7
Barium		500	7.40		520	104.0
Beryllium		500	0.100		509	101.8
Bismuth		500	-3.30		506	101.2
Boron		500	-1.10		499	99.8
Cadmium		1000	0.00		1100	110.0
Calcium	400000	400000	379000	94.8	376000	94.0
Cerium			18.4		16.5	
Chromium		500	0.00		488	97.6
Cobalt		500	1.70		505	101.0
Copper		500	-1.60		533	106.6
Iron	200000	200000	191000	95.5	192000	96.0
Lead		1000	0.200		972	97.2
Lithium		500	0.800		569	113.8
Magnesium	500000	500000	490000	98.0	490000	98.0
Manganese		500	-4.40		519	103.8
Molybdenum		500	2.50		489	97.8
Nickel		1000	-3.20		965	96.5
Phosphorus		500	-16.8		472	94.4
Potassium			-67.0		-147	
Selenium		1000	-1.70		970	97.0
Silicon		500	-54.9		453	90.6
Silver		1000	2.00		1050	105.0
Sodium			75.6		86.3	
Strontium		500	1.00		503	100.6
Sulfur		500	-43.2		452	90.4
Thallium		1000	-1.10		989	98.9
Tin		500	-1.60		496	99.2
Titanium		500	-1.50		492	98.4
Tungsten		500	1.50		509	101.8
Vanadium		500	-0.800		511	102.2

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC062824M1.ICP Date Analyzed: 06/28/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56387 Units: ug/l

Time:			09:44		09:49	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Zinc		1000	3.20		983	98.3
Zirconium		500	-1.10		476	95.2

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56389
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:23	MA56389-STD1	1		STDA
10:28	MA56389-STD2	1		STDB
10:33	MA56389-ICV1	1		
10:39	MA56389-ICB1	1		
10:44	MA56389-ICCV1	1		
10:49	MA56389-CCB1	1		
10:56	MA56389-CRI1	1		
11:01	MA56389-CRID1	1		
11:06	MA56389-ICSA1	1		
11:11	MA56389-ICSAB1	1		
11:16	MA56389-HSTD1	1		
11:22	MA56389-HSTD2	1		
11:28	MA56389-ICSA2	1		
11:33	MA56389-ICSAB2	1		
11:38	MA56389-CCV1	1		
11:43	MA56389-CCB2	1		
11:48	ZZZZZZ	1		
11:53	ZZZZZZ	1		
11:57	MP47537-SD1	5		doesnt match the QC sample JD91107-11
12:02	ZZZZZZ	10		
12:07	ZZZZZZ	1		
12:12	MP47558-S1	5		
12:17	MP47558-S2	5		
12:22	JD88846-1R	5		(sample used for QC only; not part of login JD91204)
12:27	MP47558-SD1	25		
12:32	ZZZZZZ	2		
12:36	MA56389-CCV2	1		
12:41	MA56389-CCB3	1		
12:46	JD91204-13	2		
12:51	ZZZZZZ	1		
12:56	MP47526-SD1	5		
13:01	ZZZZZZ	5		
13:06	ZZZZZZ	10		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56389
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	13:11	ZZZZZZ	10		
	13:15	MP47574-S1	1		
	13:20	MP47574-S2	1		
---------->		Last reportable sample/prep for job JD91204			
	13:26	ZZZZZZ	5		
	13:30	ZZZZZZ	5		
	13:35	MA56389-CCV3	1		
	13:40	MA56389-CCB4	1		
---------->		Last reportable CCB for job JD91204			
	13:45	ZZZZZZ	5		
	13:50	ZZZZZZ	5		
	13:55	MP47568-S1	5		
	14:00	MP47568-S2	5		
	14:04	JD91181-1	5		(sample used for QC only; not part of login JD91204)
	14:09	MP47568-SD1	25		
	14:14	ZZZZZZ	5		
	14:19	ZZZZZZ	10		
	14:24	ZZZZZZ	20		
	14:29	ZZZZZZ	20		
	14:34	MA56389-CCV4	1		
	14:38	MA56389-CCB5	1		
	14:43	ZZZZZZ	5		
	14:48	ZZZZZZ	5		
	14:53	ZZZZZZ	5		
	14:58	ZZZZZZ	5		
	15:03	ZZZZZZ	1		
	15:08	ZZZZZZ	1		
	15:13	ZZZZZZ	1		
	15:18	ZZZZZZ	5		
	15:23	MA56389-CCV5	1		
	15:28	MA56389-CCB6	1		
	15:33	MP47579-MB1	1		
	15:38	MP47578-B1	1		
	15:42	MP47578-MB1	1		
	15:47	MP47578-S1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56389
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:52	MP47578-S2	1		
15:57	JD91255-1	1		(sample used for QC only; not part of login JD91204)
16:02	MP47578-SD1	5		ISTD saturation
16:07	ZZZZZZ	1		
16:12	ZZZZZZ	1		
16:17	ZZZZZZ	1		
16:22	MA56389-CCV6	1		
16:27	MA56389-CCB7	1		
16:31	ZZZZZZ	1		
16:37	ZZZZZZ	1		
16:42	ZZZZZZ	1		
16:47	ZZZZZZ	1		
16:52	ZZZZZZ	1		
16:57	ZZZZZZ	1		
17:02	ZZZZZZ	1		
17:07	ZZZZZZ	1		
17:12	MA56389-CCV7	1		
17:17	MA56389-CCB8	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56389
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
10:33	MA56389-ICV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
10:39	MA56389-ICB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
10:44	MA56389-ICCV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
10:49	MA56389-CCB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
10:56	MA56389-CRI1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:01	MA56389-CRID1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:06	MA56389-ICSA1	1																							
11:11	MA56389-ICSAB1	1																							
11:16	MA56389-HSTD1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:22	MA56389-HSTD2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:28	MA56389-ICSA2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:33	MA56389-ICSAB2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:38	MA56389-CCV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:43	MA56389-CCB2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11:48	ZZZZZZ	1																							
11:53	ZZZZZZ	1																							
11:57	MP47537-SD1	5	doesnt match the QC sample JD91107-11																						
12:02	ZZZZZZ	10																							
12:07	ZZZZZZ	1																							
12:12	MP47558-S1	5													X							X			
12:17	MP47558-S2	5							X						X							X			
12:22	JD88846-1R	5													X							X		(a)	
12:27	MP47558-SD1	25													X							X			
12:32	ZZZZZZ	2																							
12:36	MA56389-CCV2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
12:41	MA56389-CCB3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
12:46	JD91204-13	2										X	X						X						
12:51	ZZZZZZ	1																							
12:56	MP47526-SD1	5																						X	
13:01	ZZZZZZ	5																							
13:06	ZZZZZZ	10																							
13:11	ZZZZZZ	10																							
13:15	MP47574-S1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56389
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
13:20	MP47574-S2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
13:26	ZZZZZZ	5																							
13:30	ZZZZZZ	5																							
13:35	MA56389-CCV3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
13:40	MA56389-CCB4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
13:45	ZZZZZZ	5																							
13:50	ZZZZZZ	5																							
13:55	MP47568-S1	5							X				X								X				
14:00	MP47568-S2	5							X				X								X				
14:04	JD91181-1	5							X				X								X				(a)
14:09	MP47568-SD1	25							X				X								X				
14:14	ZZZZZZ	5																							
14:19	ZZZZZZ	10																							
14:24	ZZZZZZ	20																							
14:29	ZZZZZZ	20																							
14:34	MA56389-CCV4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
14:38	MA56389-CCB5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
14:43	ZZZZZZ	5																							
14:48	ZZZZZZ	5																							
14:53	ZZZZZZ	5																							
14:58	ZZZZZZ	5																							
15:03	ZZZZZZ	1																							
15:08	ZZZZZZ	1																							
15:13	ZZZZZZ	1																							
15:18	ZZZZZZ	5																							
15:23	MA56389-CCV5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
15:28	MA56389-CCB6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
15:33	MP47579-MB1	1		X	X		X			X			X			X		X			X		X		
15:38	MP47578-B1	1	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	
15:42	MP47578-MB1	1	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	
15:47	MP47578-S1	1	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	
15:52	MP47578-S2	1	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	
15:57	JD91255-1	1	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	(a)
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56389
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn
16:02	MP47578-SD1	5	X			X	X		X	X		X	X		X	X		X		X	X		X	
16:07	ZZZZZZ	1																						
16:12	ZZZZZZ	1																						
16:17	ZZZZZZ	1																						
16:22	MA56389-CCV6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16:27	MA56389-CCB7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16:31	ZZZZZZ	1																						
16:37	ZZZZZZ	1																						
16:42	ZZZZZZ	1																						
16:47	ZZZZZZ	1																						
16:52	ZZZZZZ	1																						
16:57	ZZZZZZ	1																						
17:02	ZZZZZZ	1																						
17:07	ZZZZZZ	1																						
17:12	MA56389-CCV7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17:17	MA56389-CCB8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

(a) Sample used for QC only; not part of login JD91204.

Element: Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni K Se Ag Na Tl V Zn

INTERNAL STANDARD SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56389
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
10:23	MA56389-STD1	9015 R	155860 R	21081 R	14431 R
10:28	MA56389-STD2	8614	149130	20305	13525
10:33	MA56389-ICV1	8712	149590	20271	13718
10:39	MA56389-ICB1	8898	151570	20351	14280
10:44	MA56389-ICCV1	8661	148990	20219	13645
10:49	MA56389-CCB1	8864	151430	20219	14268
10:56	MA56389-CRI1	8694	149470	19947	13964
11:01	MA56389-CRID1	8892	152660	20180	14311
11:06	MA56389-ICSA1	No results reported for the elements associated with this internal standard.			
11:11	MA56389-ICSAB1	No results reported for the elements associated with this internal standard.			
11:16	MA56389-HSTD1	8831	152350	20732	14207
11:22	MA56389-HSTD2	8383	146090	20471	12985
11:28	MA56389-ICSA2	8450	146620	20384	13052
11:33	MA56389-ICSAB2	8461	145820	20328	13076
11:38	MA56389-CCV1	8825	151000	20528	13872
11:43	MA56389-CCB2	8839	151700	20246	14219
11:48	ZZZZZZ	8700	148130	20041	13878
11:53	ZZZZZZ	8508	147360	19868	13581
11:57	MP47537-SD1	No results reported for the elements associated with this internal standard.			
12:02	ZZZZZZ	8456	147220	19731	13304
12:07	ZZZZZZ	8799	149960	20354	13926
12:12	MP47558-S1	9103	155260	21289	14320
12:17	MP47558-S2	8972	153330	21211	13983
12:22	JD88846-1R	9011	155610	21074	14281
12:27	MP47558-SD1	8920	153420	20678	14267
12:32	ZZZZZZ	9048	154690	20917	14445
12:36	MA56389-CCV2	8710	150020	20442	13722
12:41	MA56389-CCB3	8850	152420	20449	14252
12:46	JD91204-13	9253	157620	21376	14388
12:51	ZZZZZZ	8919	154540	20719	14154
12:56	MP47526-SD1	8642	149400	20390	13487
13:01	ZZZZZZ	8813	151320	20389	14049
13:06	ZZZZZZ	8854	152040	20382	14153

INTERNAL STANDARD SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56389
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:11	ZZZZZZ	8863	151840	20370	14161
13:15	MP47574-S1	8571	149260	20372	13333
13:20	MP47574-S2	8574	149240	20376	13340
13:26	ZZZZZZ	8802	152210	20325	14087
13:30	ZZZZZZ	8717	150760	20472	13752
13:35	MA56389-CCV3	8714	149630	20130	13781
13:40	MA56389-CCB4	8842	152320	20264	14292
13:45	ZZZZZZ	8736	151160	20330	13866
13:50	ZZZZZZ	8704	150930	20042	13867
13:55	MP47568-S1	8667	149910	20022	13713
14:00	MP47568-S2	8655	149750	20141	13689
14:04	JD91181-1	8706	150830	19967	13813
14:09	MP47568-SD1	8770	152080	20223	14064
14:14	ZZZZZZ	8964	155070	21088	14272
14:19	ZZZZZZ	No results reported for the elements associated with this internal standard.			
14:24	ZZZZZZ	8776	152180	20181	13972
14:29	ZZZZZZ	8755	152250	20199	13919
14:34	MA56389-CCV4	8730	150350	20136	13804
14:38	MA56389-CCB5	8846	151990	20226	14302
14:43	ZZZZZZ	8832	153110	20436	14098
14:48	ZZZZZZ	8615	150920	20275	13691
14:53	ZZZZZZ	8632	150650	20118	13720
14:58	ZZZZZZ	8654	150760	20162	13797
15:03	ZZZZZZ	8834	155160	21248	13233
15:08	ZZZZZZ	8679	151530	20672	13030
15:13	ZZZZZZ	8919	156190	21390	13283
15:18	ZZZZZZ	8753	152260	20304	13962
15:23	MA56389-CCV5	8731	150840	20187	13810
15:28	MA56389-CCB6	8840	153690	20321	14292
15:33	MP47579-MB1	9072	157310	20967	14607
15:38	MP47578-B1	8920	154060	20752	14140
15:42	MP47578-MB1	9015	156060	20963	14536
15:47	MP47578-S1	8683	152740	20688	13639

INTERNAL STANDARD SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
Analyst: MM Run ID: MA56389
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:52	MP47578-S2	8716	152460	20810	13675
15:57	JD91255-1	8712	153240	20830	13806
16:02	MP47578-SD1	999999 !a	153560	20403	999999 !a
16:07	ZZZZZZ	8747	154130	20670	13905
16:12	ZZZZZZ	8423	150020	20610	13288
16:17	ZZZZZZ	8452	149930	20485	13257
16:22	MA56389-CCV6	8748	151380	20515	13824
16:27	MA56389-CCB7	8851	153960	20487	14287
16:31	ZZZZZZ	8498	150670	20786	13279
16:37	ZZZZZZ	8450	150420	20704	13125
16:42	ZZZZZZ	8458	149640	20608	13196
16:47	ZZZZZZ	8982	156440	20916	14473
16:52	ZZZZZZ	8827	152710	20510	14564
16:57	ZZZZZZ	9444	155910	21388	13943
17:02	ZZZZZZ	8421	148320	19909	13356
17:07	ZZZZZZ	8801	152120	20202	14213
17:12	MA56389-CCV7	8717	150910	20375	13793
17:17	MA56389-CCB8	8826	152480	20233	14263

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

(a) No samples reported for the elements associated with this internal standard.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56389 Units: ug/l

Time:			10:39		10:49		11:43		12:41	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	17	-3.80	<200	-3.50	<200	-9.70	<200	-4.90	<200
Antimony	6.0	1.7	1.10	<6.0	0.200	<6.0	1.00	<6.0	0.100	<6.0
Arsenic	3.0	2.1	-0.700	<3.0	0.800	<3.0	0.700	<3.0	0.100	<3.0
Barium	200	.8	0.00	<200	-0.500	<200	0.400	<200	-0.400	<200
Beryllium	1.0	.3	0.100	<1.0	0.00	<1.0	0.00	<1.0	0.00	<1.0
Bismuth	20	2.3								
Boron	100	2.3								
Cadmium	3.0	.3	-0.200	<3.0	-0.100	<3.0	-0.200	<3.0	-0.100	<3.0
Calcium	5000	6.6	-6.50	<5000	-8.50	<5000	-6.60	<5000	-8.70	<5000
Cerium	100									
Chromium	10	.3	-0.100	<10	-0.200	<10	-0.100	<10	0.00	<10
Cobalt	50	.4	-0.300	<50	0.00	<50	-0.200	<50	-0.200	<50
Copper	10	.8	0.300	<10	0.00	<10	0.00	<10	0.300	<10
Iron	100	5.3	-0.800	<100	-1.30	<100	-0.800	<100	-1.40	<100
Lead	3.0	1.1	-0.200	<3.0	0.100	<3.0	-0.200	<3.0	0.700	<3.0
Lithium	50	4.8								
Magnesium	5000	32	-12.2	<5000	-7.20	<5000	4.80	<5000	9.70	<5000
Manganese	15	.1	0.00	<15	0.00	<15	0.00	<15	0.00	<15
Molybdenum	20	.6								
Nickel	10	.4	0.00	<10	0.200	<10	-0.100	<10	0.100	<10
Phosphorus	50	1.2								
Potassium	10000	77	107	<10000	132	<10000	95.4	<10000	38.6	<10000
Selenium	10	3.2	-0.400	<10	0.300	<10	1.70	<10	0.900	<10
Silicon	200	1.7								
Silver	10	1	-0.200	<10	-0.400	<10	-0.800	<10	-0.700	<10
Sodium	10000	34	-100	<10000	-101	<10000	-115	<10000	-121	<10000
Strontium	10	.3								
Sulfur	50	3								
Thallium	10	1.8	0.600	<10	-0.200	<10	0.300	<10	0.300	<10
Tin	10	.8								
Titanium	10	.5								
Tungsten	50	2.6								
Vanadium	50	.6	-0.100	<50	0.00	<50	-0.100	<50	-0.100	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56389 Units: ug/l

Time:			10:39		10:49		11:43		12:41	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.1	-1.10	<20	-1.00	<20	-1.10	<20	-1.10	<20
Zirconium	10	.3								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56389 Units: ug/l

Time:			13:40	
Sample ID:			CCB4	
Metal	RL	IDL	raw	final
Aluminum	200	17	-0.400	<200
Antimony	6.0	1.7	1.00	<6.0
Arsenic	3.0	2.1	0.300	<3.0
Barium	200	.8	-0.200	<200
Beryllium	1.0	.3	0.00	<1.0
Bismuth	20	2.3		
Boron	100	2.3		
Cadmium	3.0	.3	-0.100	<3.0
Calcium	5000	6.6	-9.00	<5000
Cerium	100			
Chromium	10	.3	-0.100	<10
Cobalt	50	.4	-0.400	<50
Copper	10	.8	-0.200	<10
Iron	100	5.3	-1.70	<100
Lead	3.0	1.1	-0.800	<3.0
Lithium	50	4.8		
Magnesium	5000	32	-4.40	<5000
Manganese	15	.1	0.00	<15
Molybdenum	20	.6		
Nickel	10	.4	0.00	<10
Phosphorus	50	1.2		
Potassium	10000	77	84.9	<10000
Selenium	10	3.2	0.700	<10
Silicon	200	1.7		
Silver	10	1	-1.00	<10
Sodium	10000	34	-119	<10000
Strontium	10	.3		
Sulfur	50	3		
Thallium	10	1.8	0.300	<10
Tin	10	.8		
Titanium	10	.5		
Tungsten	50	2.6		
Vanadium	50	.6	-0.300	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56389 Units: ug/l

Time:			13:40	
Sample ID:			CCB4	
Metal	RL	IDL	raw	final
Zinc	20	.1	-1.10	<20
Zirconium	10	.3		

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA56389 Units: ug/l

Time:		10:44	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Aluminum	40000	39900	99.8
Antimony	2000	2030	101.5
Arsenic	2000	2040	102.0
Barium	2000	2020	101.0
Beryllium	2000	2010	100.5
Bismuth			
Boron			
Cadmium	2000	2060	103.0
Calcium	40000	40500	101.3
Cerium			
Chromium	2000	2040	102.0
Cobalt	2000	2030	101.5
Copper	2000	1990	99.5
Iron	40000	40500	101.3
Lead	2000	2030	101.5
Lithium			
Magnesium	40000	40500	101.3
Manganese	2000	2050	102.5
Molybdenum			
Nickel	2000	2040	102.0
Phosphorus			
Potassium	40000	40000	100.0
Selenium	2000	2030	101.5
Silicon			
Silver	250	247	98.8
Sodium	40000	40200	100.5
Strontium			
Sulfur			
Thallium	2000	2060	103.0
Tin			
Titanium			
Tungsten			
Vanadium	2000	2030	101.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial Continuing Calibration Check

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
QC Limits: to % Recovery Run ID: MA56389 Units: ug/l

Time:		10:44	
Sample ID:	ICCV	ICCV1	
Metal	True	Results	% Rec
Zinc	2000	2070	103.5
Zirconium			

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56389 Units: ug/l

Time:		10:33			11:38			12:36	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40600	101.5	40000	39300	98.3	40000	39700	99.3
Antimony	2000	2020	101.0	2000	1980	99.0	2000	2000	100.0
Arsenic	2000	2000	100.0	2000	1980	99.0	2000	2010	100.5
Barium	2000	2030	101.5	2000	1990	99.5	2000	2020	101.0
Beryllium	2000	2050	102.5	2000	1990	99.5	2000	2000	100.0
Bismuth									
Boron									
Cadmium	2000	2040	102.0	2000	2010	100.5	2000	2030	101.5
Calcium	40000	40200	100.5	40000	39800	99.5	40000	40200	100.5
Cerium									
Chromium	2000	2040	102.0	2000	1990	99.5	2000	2010	100.5
Cobalt	2000	2000	100.0	2000	1980	99.0	2000	2010	100.5
Copper	2000	2010	100.5	2000	1940	97.0	2000	1970	98.5
Iron	40000	40200	100.5	40000	39700	99.3	40000	40000	100.0
Lead	2000	2060	103.0	2000	1970	98.5	2000	2000	100.0
Lithium									
Magnesium	40000	39900	99.8	40000	39700	99.3	40000	40000	100.0
Manganese	2000	2080	104.0	2000	2010	100.5	2000	2020	101.0
Molybdenum									
Nickel	2000	2050	102.5	2000	1990	99.5	2000	2010	100.5
Phosphorus									
Potassium	40000	39600	99.0	40000	39000	97.5	40000	39400	98.5
Selenium	2000	1990	99.5	2000	1970	98.5	2000	1990	99.5
Silicon									
Silver	250	252	100.8	250	241	96.4	250	245	98.0
Sodium	40000	39900	99.8	40000	39400	98.5	40000	39900	99.8
Strontium									
Sulfur									
Thallium	2000	2040	102.0	2000	2000	100.0	2000	2020	101.0
Tin									
Titanium									
Tungsten									
Vanadium	2000	2020	101.0	2000	1980	99.0	2000	2000	100.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56389 Units: ug/l

Time:		10:33			11:38			12:36	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2060	103.0	2000	2000	100.0	2000	2030	101.5
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56389 Units: ug/l

Time:		13:35	
Sample ID:	CCV	CCV3	
Metal	True	Results	% Rec
Aluminum	40000	39800	99.5
Antimony	2000	1990	99.5
Arsenic	2000	2010	100.5
Barium	2000	2010	100.5
Beryllium	2000	2010	100.5
Bismuth			
Boron			
Cadmium	2000	2020	101.0
Calcium	40000	40200	100.5
Cerium			
Chromium	2000	1990	99.5
Cobalt	2000	2010	100.5
Copper	2000	1960	98.0
Iron	40000	39800	99.5
Lead	2000	1990	99.5
Lithium			
Magnesium	40000	39800	99.5
Manganese	2000	2040	102.0
Molybdenum			
Nickel	2000	1990	99.5
Phosphorus			
Potassium	40000	39400	98.5
Selenium	2000	1990	99.5
Silicon			
Silver	250	244	97.6
Sodium	40000	39900	99.8
Strontium			
Sulfur			
Thallium	2000	2020	101.0
Tin			
Titanium			
Tungsten			
Vanadium	2000	1990	99.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56389 Units: ug/l

Time:		13:35	
Sample ID:	CCV	CCV3	
Metal	True	Results	% Rec
Zinc	2000	2020	101.0
Zirconium			

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56389 Units: ug/l

Time:		11:16			11:22	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum				300000	293000	97.7
Antimony	8000	8250	103.1			
Arsenic	8000	8310	103.9			
Barium	8000	8110	101.4			
Beryllium	8000	8130	101.6			
Bismuth						
Boron						
Cadmium	8000	7640	95.5			
Calcium				200000	191000	95.5
Cerium						
Chromium	8000	8250	103.1			
Cobalt	8000	8180	102.3			
Copper	8000	7810	97.6			
Iron				200000	186000	93.0
Lead	8000	8300	103.8			
Lithium						
Magnesium				300000	282000	94.0
Manganese	8000	8060	100.8			
Molybdenum						
Nickel	8000	8250	103.1			
Phosphorus						
Potassium				200000	195000	97.5
Selenium	8000	8100	101.3			
Silicon						
Silver	625	651	104.2			
Sodium				200000	193000	96.5
Strontium						
Sulfur						
Thallium	8000	8250	103.1			
Tin						
Titanium						
Tungsten						
Vanadium	8000	8260	103.3			

HIGH STANDARD CHECK SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56389 Units: ug/l

Time:		11:16			11:22	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Zinc	8000	8330	104.1			
Zirconium						

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56389 Units: ug/l

Time:				10:56		11:01	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Aluminum	200	500	100	196	98.0	107	107.0
Antimony	6.0	20	3.0	7.00	116.7		
Arsenic	8.0	20	3.0	9.00	112.5	2.50	83.3
Barium	200		4.0	203	101.5	3.60	90.0
Beryllium	2.0		1.0	2.20	110.0	1.00	100.0
Bismuth	20						
Boron	100		10				
Cadmium	3.0		1.0	3.00	100.0	0.800	80.0
Calcium	5000	2000	1000	5190	103.8	1030	103.0
Cerium							
Chromium	10		2.0	10.3	103.0	2.10	105.0
Cobalt	50		3.0	52.0	104.0	2.80	93.3
Copper	10		2.0	9.90	99.0		
Iron	100	500		105	105.0		
Lead	3.0	20	2.5	2.40	80.0		
Lithium	50						
Magnesium	5000	2000	100	5290	105.8	98.7	98.7
Manganese	15		3.0	16.0	106.7	3.20	106.7
Molybdenum	20						
Nickel	10		4.0	11.1	111.0	4.10	102.5
Phosphorus	50						
Potassium	5000		2000	5080	101.6	2040	102.0
Selenium	10	20	5.0	11.9	119.0	5.40	108.0
Silicon	200						
Silver	5.0		2.0	4.40	88.0		
Sodium	5000		1000	5080	101.6	918	91.8
Strontium	10						
Sulfur	50						
Thallium	10		2.0	10.8	108.0	2.30	115.0
Tin	10						
Titanium	10						
Tungsten	50						
Vanadium	50		2.0	51.3	102.6	1.90	95.0

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56389 Units: ug/l

Time:				10:56		11:01	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Zinc	20		10	23.5	117.5	10.7	107.0
Zirconium	10						

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56389 Units: ug/l

Time:			11:28		11:33	
Sample ID:	ICSA	ICSAB	ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	486000	97.2	490000	98.0
Antimony		1000	2.20		992	99.2
Arsenic		1000	-0.200		966	96.6
Barium		500	6.80		504	100.8
Beryllium		500	0.00		491	98.2
Bismuth		500	-4.20		486	97.2
Boron		500	5.00		482	96.4
Cadmium		1000	0.200		1060	106.0
Calcium	400000	400000	365000	91.3	365000	91.3
Cerium			27.7		31.7	
Chromium		500	0.100		468	93.6
Cobalt		500	1.70		484	96.8
Copper		500	-3.70		514	102.8
Iron	200000	200000	186000	93.0	187000	93.5
Lead		1000	-1.30		940	94.0
Lithium		500	-2.40		544	108.8
Magnesium	500000	500000	472000	94.4	475000	95.0
Manganese		500	-4.20		499	99.8
Molybdenum		500	2.90		472	94.4
Nickel		1000	-2.70		931	93.1
Phosphorus		500	12.0		437	87.4
Potassium			475		37.9	
Selenium		1000	-3.40		943	94.3
Silicon		500	-51.5		414	82.8
Silver		1000	0.900		1020	102.0
Sodium			-1.40		-20.8	
Strontium		500	0.900		492	98.4
Sulfur		500	-42.8		430	86.0
Thallium		1000	-2.10		957	95.7
Tin		500	-0.600		470	94.0
Titanium		500	-1.50		472	94.4
Tungsten		500	-2.40		465	93.0
Vanadium		500	0.00		490	98.0

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SC063024M1.ICP Date Analyzed: 06/30/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56389 Units: ug/l

Time:			11:28		11:33	
Sample ID:	ICSA	ICSAB	ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec
Zinc		1000	2.70		938	93.8
Zirconium		500	-2.90		470	94.0

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47572
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 06/28/24

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	1.7	8.1	-0.080	<50
Antimony	2.0	.17	.41	-0.050	<2.0
Arsenic	2.0	.21	.28	-0.020	<2.0
Barium	20	.08	1.9	0.080	<20
Beryllium	0.20	.03	.08	0.040	<0.20
Bismuth	2.0	.23	.52		
Boron	10	.23	3.7		
Cadmium	0.50	.03	.07	0.010	<0.50
Calcium	500	.66	21	5.1	<500
Chromium	1.0	.03	.37	0.090	<1.0
Cobalt	5.0	.04	.28	0.020	<5.0
Copper	2.5	.08	.84	0.24	<2.5
Iron	50	.53	19	1.6	<50
Lead	2.0	.11	.41	-0.070	<2.0
Lithium	5.0	.48	.92		
Magnesium	500	3.2	14	0.53	<500
Manganese	1.5	.01	.41	0.13	<1.5
Molybdenum	2.0	.06	.32		
Nickel	4.0	.04	.35	0.030	<4.0
Phosphorus	20	.12	3.3		
Potassium	1000	7.7	32	-16	<1000
Selenium	2.0	.32	.65	0.23	<2.0
Silicon	20	.17	11		
Silver	0.50	.1	.17	0.12	<0.50
Sodium	1000	3.4	78	0.30	<1000
Strontium	5.0	.03	.18		
Sulfur	10	.3	3.9		
Thallium	1.0	.18	.58	0.050	<1.0
Tin	20	.08	3.8		
Titanium	1.0	.05	.34		
Tungsten	5.0	.26	1.8		
Vanadium	5.0	.06	.19	0.040	<5.0
Zinc	5.0	.01	2.3	0.44	<5.0

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47572
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 06/28/24

Metal	RL	IDL	MDL	MB raw	final
Zirconium	2.0	.03	.54		

Associated samples MP47572: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47572
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 06/28/24

Metal	JD91204-1 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	5570	10300	2580	183.3N(a	6.5	20
Antimony	0.0	112	206	54.3N(a)	2.7	20
Arsenic	2.9	186	206	88.7	5.0	20
Barium	37.3	227	206	91.9	6.4	20
Beryllium	0.27	186	206	90.0	8.4	20
Bismuth						
Boron						
Cadmium	0.11	189	206	91.5	2.7	20
Calcium	2230	4510	2580	88.4	8.1	20
Chromium	8.8	196	206	90.7	1.5	20
Cobalt	4.2	196	206	92.9	5.2	20
Copper	16.2	205	206	91.5	3.5	20
Iron	11000	13400	2580	93.0	8.6	20
Lead	42.8	233	206	92.2	4.4	20
Lithium						
Magnesium	1650	4250	2580	100.8	4.6	20
Manganese	279	503	206	108.5	18.0	20
Molybdenum						
Nickel	8.2	199	206	92.4	2.0	20
Phosphorus						
Potassium	313	2760	2580	94.8	4.1	20
Selenium	0.0	179	206	86.7	2.8	20
Silicon						
Silver	0.12	24.6	25.8	94.9	2.5	20
Sodium	93.4	2470	2580	92.1	5.4	20
Strontium						
Sulfur						
Thallium	0.0	192	206	93.0	5.9	20
Tin						
Titanium						
Tungsten						
Vanadium	15.8	203	206	90.7	2.5	20
Zinc	67.9	257	206	91.6	5.6	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47572 Methods: SW846 6010D
Matrix Type: SOLID Units: mg/kg

Prep Date: 06/28/24

Metal	JD91204-1 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP47572: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47572
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 06/28/24

Metal	JD91204-1 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	5570	9650	2550	159.7N(a	75-125
Antimony	0.0	109	204	53.3N(a)	75-125
Arsenic	2.9	177	204	85.2	75-125
Barium	37.3	213	204	86.0	75-125
Beryllium	0.27	171	204	83.5	75-125
Bismuth					
Boron					
Cadmium	0.11	184	204	90.0	75-125
Calcium	2230	4160	2550	75.6	75-125
Chromium	8.8	193	204	90.1	75-125
Cobalt	4.2	186	204	89.0	75-125
Copper	16.2	198	204	89.0	75-125
Iron	11000	12300	2550	50.9 (b)	75-125
Lead	42.8	223	204	88.2	75-125
Lithium					
Magnesium	1650	4060	2550	94.3	75-125
Manganese	279	420	204	69.0N(a)	75-125
Molybdenum					
Nickel	8.2	195	204	91.4	75-125
Phosphorus					
Potassium	313	2650	2550	91.5	75-125
Selenium	0.0	174	204	85.1	75-125
Silicon					
Silver	0.12	24.0	25.5	93.5	75-125
Sodium	93.4	2340	2550	87.9	75-125
Strontium					
Sulfur					
Thallium	0.0	181	204	88.6	75-125
Tin					
Titanium					
Tungsten					
Vanadium	15.8	198	204	89.2	75-125
Zinc	67.9	243	204	85.7	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47572
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 06/28/24

Metal	JD91204-1 Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP47572: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47572
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 06/28/24

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	2340	2500	93.6	80-120
Antimony	183	200	91.5	80-120
Arsenic	186	200	93.0	80-120
Barium	187	200	93.5	80-120
Beryllium	186	200	93.0	80-120
Bismuth				
Boron				
Cadmium	191	200	95.5	80-120
Calcium	2400	2500	96.0	80-120
Chromium	191	200	95.5	80-120
Cobalt	188	200	94.0	80-120
Copper	185	200	92.5	80-120
Iron	2400	2500	96.0	80-120
Lead	188	200	94.0	80-120
Lithium				
Magnesium	2400	2500	96.0	80-120
Manganese	192	200	96.0	80-120
Molybdenum				
Nickel	189	200	94.5	80-120
Phosphorus				
Potassium	2320	2500	92.8	80-120
Selenium	185	200	92.5	80-120
Silicon				
Silver	24.5	25	98.0	80-120
Sodium	2360	2500	94.4	80-120
Strontium				
Sulfur				
Thallium	191	200	95.5	80-120
Tin				
Titanium				
Tungsten				
Vanadium	190	200	95.0	80-120
Zinc	191	200	95.5	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47572
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 06/28/24

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP47572: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47572
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/28/24

Metal	JD91204-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	55100	57100	3.6	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	28.8	28.2	2.1	0-10
Barium	369	388	5.0	0-10
Beryllium	2.70	2.70	0.0	0-10
Bismuth				
Boron				
Cadmium	1.10	1.60	45.5 (a)	0-10
Calcium	22000	22700	3.4	0-10
Chromium	87.1	97.3	11.7*(b)	0-10
Cobalt	41.8	43.8	4.8	0-10
Copper	161	173	8.0	0-10
Iron	108000	115000	6.3	0-10
Lead	424	446	5.3	0-10
Lithium				
Magnesium	16300	17000	4.5	0-10
Manganese	2750	2940	6.9	0-10
Molybdenum				
Nickel	80.8	87.1	7.8	0-10
Phosphorus				
Potassium	3090	2720	11.9 (a)	0-10
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	1.20	7.50	525.0(a)	0-10
Sodium	923	840	8.9	0-10
Strontium				
Sulfur				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Tungsten				
Vanadium	156	170	8.9	0-10
Zinc	671	735	9.5	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47572
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/28/24

Metal	JD91204-1 Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP47572: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

POST DIGESTATE SPIKE SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47572
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/28/24

Metal	Sample ml	Final ml	JD91204-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	19.25	20			1895	0.2	200	2000	94.8	80-120
Arsenic										
Barium										
Beryllium										
Bismuth										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Lithium										
Magnesium										
Manganese										
Molybdenum										
Nickel										
Phosphorus										
Potassium										
Selenium										
Silicon										
Silver										
Sodium										
Strontium										
Sulfur										
Thallium										
Tin										
Titanium										
Tungsten										
Vanadium										
Zinc										

POST DIGESTATE SPIKE SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47572
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/28/24

Metal	Sample ml	Final ml	JD91204-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Zirconium										

Associated samples MP47572: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47574
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/28/24

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	27	150	12.3	<200
Antimony	6.0	2.2	4.7	-0.50	<6.0
Arsenic	3.0	1.3	2.8	-0.50	<3.0
Barium	200	1	13	-0.10	<200
Beryllium	1.0	.2	.5	-0.10	<1.0
Bismuth	20	2.1	8.6		
Boron	100	1	10		
Cadmium	3.0	.2	1	0.0	<3.0
Calcium	5000	7.7	99	43.4	<5000
Cerium	100				
Chromium	10	.5	2	0.10	<10
Cobalt	50	.4	2.6	0.10	<50
Copper	10	6.8	5.9	0.80	<10
Iron	100	15	32	14.8	<100
Lead	3.0	1.6	1.8	-0.20	<3.0
Lithium	50	3.7	7.3		
Magnesium	5000	54	140	-5.1	<5000
Manganese	15	.1	1.4	0.60	<15
Molybdenum	20	.5	3.6		
Nickel	10	.3	1.7	0.20	<10
Phosphorus	50	1.8	18		
Potassium	10000	77	200	-32	<10000
Selenium	10	2	4.9	0.30	<10
Silicon	200	1.3	32		
Silver	10	.9	6.1	-0.40	<10
Sodium	10000	23	570	66.0	<10000
Strontium	10	.4	2.7		
Sulfur	50	4.1	45		
Thallium	10	1.6	1.8	0.70	<10
Tin	10	.9	3.7		
Titanium	10	.9	2.5		
Tungsten	50	2	40		
Vanadium	50	.8	1.8	0.10	<50

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47574
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/28/24

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.2	6.9	6.8	<20
Zirconium	10	.5	4.1		

Associated samples MP47574: JD91204-18, JD91204-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47574
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/28/24

Metal	JD91222-1 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	0.0	23300	25000	93.2	75-125
Antimony	0.0	1810	2000	90.5	75-125
Arsenic	0.0	1830	2000	91.5	75-125
Barium	108	1930	2000	91.1	75-125
Beryllium	0.0	1850	2000	92.5	75-125
Bismuth					
Boron					
Cadmium	0.0	1880	2000	94.0	75-125
Calcium	163000	183000	25000	80.0	75-125
Cerium					
Chromium	62.7	1840	2000	88.9	75-125
Cobalt	5.1	1840	2000	91.7	75-125
Copper	0.0	1820	2000	91.0	75-125
Iron	35.0	23000	25000	91.9	75-125
Lead	7.6	1810	2000	90.1	75-125
Lithium					
Magnesium	66500	84400	25000	71.6N(a)	75-125
Manganese	104	1950	2000	92.3	75-125
Molybdenum					
Nickel	2.0	1820	2000	90.9	75-125
Phosphorus					
Potassium	3040	26100	25000	92.2	75-125
Selenium	13.3	1820	2000	90.3	75-125
Silicon					
Silver	2.7	240	250	94.9	75-125
Sodium	152000	162000	25000	40.0 (b)	75-125
Strontium					
Sulfur					
Thallium	3.7	1860	2000	92.8	75-125
Tin					
Titanium					
Tungsten					
Vanadium	0.0	1820	2000	91.0	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47574
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/28/24

Metal	JD91222-1 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Zinc	6.0	1810	2000	90.2	75-125
Zirconium					

Associated samples MP47574: JD91204-18, JD91204-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47574
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/28/24

Metal	JD91222-1 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	0.0	24400	25000	97.6	4.6	20
Antimony	0.0	1890	2000	94.5	4.3	20
Arsenic	0.0	1910	2000	95.5	4.3	20
Barium	108	2020	2000	95.6	4.6	20
Beryllium	0.0	1940	2000	97.0	4.7	20
Bismuth						
Boron						
Cadmium	0.0	1960	2000	98.0	4.2	20
Calcium	163000	190000	25000	108.0	3.8	20
Cerium						
Chromium	62.7	1920	2000	92.9	4.3	20
Cobalt	5.1	1930	2000	96.2	4.8	20
Copper	0.0	1910	2000	95.5	4.8	20
Iron	35.0	24200	25000	96.7	5.1	20
Lead	7.6	1890	2000	94.1	4.3	20
Lithium						
Magnesium	66500	87800	25000	85.2	3.9	20
Manganese	104	2040	2000	96.8	4.5	20
Molybdenum						
Nickel	2.0	1900	2000	94.9	4.3	20
Phosphorus						
Potassium	3040	27400	25000	97.4	4.9	20
Selenium	13.3	1900	2000	94.3	4.3	20
Silicon						
Silver	2.7	251	250	99.3	4.5	20
Sodium	152000	166000	25000	56.0 (a)	2.4	20
Strontium						
Sulfur						
Thallium	3.7	1940	2000	96.8	4.2	20
Tin						
Titanium						
Tungsten						
Vanadium	0.0	1900	2000	95.0	4.3	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47574 Methods: SW846 6010D
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/28/24

Metal	JD91222-1 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zinc	6.0	1890	2000	94.2	4.3	20
Zirconium						

Associated samples MP47574: JD91204-18, JD91204-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47574
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/28/24

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	23700	25000	94.8	80-120
Antimony	1890	2000	94.5	80-120
Arsenic	1880	2000	94.0	80-120
Barium	2010	2000	100.5	80-120
Beryllium	1980	2000	99.0	80-120
Bismuth				
Boron				
Cadmium	1910	2000	95.5	80-120
Calcium	24100	25000	96.4	80-120
Cerium				
Chromium	2000	2000	100.0	80-120
Cobalt	1930	2000	96.5	80-120
Copper	1920	2000	96.0	80-120
Iron	25300	25000	101.2	80-120
Lead	1950	2000	97.5	80-120
Lithium				
Magnesium	23900	25000	95.6	80-120
Manganese	1970	2000	98.5	80-120
Molybdenum				
Nickel	1950	2000	97.5	80-120
Phosphorus				
Potassium	23700	25000	94.8	80-120
Selenium	1880	2000	94.0	80-120
Silicon				
Silver	251	250	100.4	80-120
Sodium	25000	25000	100.0	80-120
Strontium				
Sulfur				
Thallium	2080	2000	104.0	80-120
Tin				
Titanium				
Tungsten				
Vanadium	2010	2000	100.5	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47574
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/28/24

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zinc	1930	2000	96.5	80-120
Zirconium				

Associated samples MP47574: JD91204-18, JD91204-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47574
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/28/24

Metal	JD91222-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	0.00	0.00	NC	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	108	106	1.8	0-10
Beryllium	0.00	0.00	NC	0-10
Bismuth				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium	163000	170000	4.0	0-10
Cerium				
Chromium	62.7	64.6	3.0	0-10
Cobalt	5.10	11.5	125.5(a)	0-10
Copper	0.00	0.00	NC	0-10
Iron	35.0	0.00	100.0(a)	0-10
Lead	7.60	0.00	100.0(a)	0-10
Lithium				
Magnesium	66500	65600	1.4	0-10
Manganese	104	104	0.1	0-10
Molybdenum				
Nickel	2.00	2.70	35.0 (a)	0-10
Phosphorus				
Potassium	3040	2680	11.7 (a)	0-10
Selenium	13.3	16.3	22.6 (a)	0-10
Silicon				
Silver	2.70	0.00	100.0(a)	0-10
Sodium	152000	151000	0.3	0-10
Strontium				
Sulfur				
Thallium	3.70	10.5	183.8(a)	0-10
Tin				
Titanium				
Tungsten				
Vanadium	0.00	0.00	NC	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47574
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 06/28/24

Metal	JD91222-1 Original	SDL 1:5	%DIF	QC Limits
Zinc	6.00	6.50	8.3	0-10
Zirconium				

Associated samples MP47574: JD91204-18, JD91204-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47595 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 06/28/24

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0022	.015	-0.017	*

Associated samples MP47595: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47595
Matrix Type: SOLID
Methods: SW846 7471B
Units: mg/kg

Prep Date: 06/28/24

Metal	JD91204-1 Original	MS	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.25	0.51	0.291	89.4	80-120

Associated samples MP47595: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47595 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 06/28/24

Metal	JD91204-1 Original	MSD	Spikelot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	0.25	0.49	0.284	84.6	4.0	20

Associated samples MP47595: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47595
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 06/28/24

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.34	0.333	102.0	80-120

Associated samples MP47595: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47597
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 06/28/24

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.04	.095	0.052	<0.20

Associated samples MP47597: JD91204-18, JD91204-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47597
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 06/28/24

Metal	JD91181-1 Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.51	3.0	2	124.5	75-125

Associated samples MP47597: JD91204-18, JD91204-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47597 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/28/24

Metal	JD91181-1 Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.51	2.8	2	114.5	6.9	20

Associated samples MP47597: JD91204-18, JD91204-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47597
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 06/28/24

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	2.2	2	110.0	80-120

Associated samples MP47597: JD91204-18, JD91204-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47597
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 06/28/24

Metal	Sample ml	Final ml	JD91181-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Mercury	14	50	.5092	.142576	2.4374	1	30	600	96.4	85-115

Associated samples MP47597: JD91204-18, JD91204-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC
- Percent Solids Raw Data Summary

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GP54991/GN56718	0.40	0.0	mg/kg	868.812	811	93.3	80-120%
Chromium, Hexavalent	GP54991/GN56718			mg/kg	40	39.2	98.0	80-120%
Cyanide	GP54996/GN56676	0.24	0.0	mg/kg	4.8	4.39	91.5	90-110%
Cyanide	GP54998/GN56676	0.010	0.0	mg/l	0.2	0.195	97.5	90-110%

Associated Samples:
Batch GP54991: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17
Batch GP54996: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17
Batch GP54998: JD91204-18, JD91204-19
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GP54991/GN56718	JD91204-1	mg/kg	0.0	0.40	200.0(a)	0-20%
Cyanide	GP54996/GN56676	JD91183-1	mg/kg	0.13	0.0	200.0(a)	0-49%
Cyanide	GP54998/GN56676	JD90788-1	mg/l	0.14	0.15	6.9	0-32%
Redox Potential Vs H2	GN56627	JD91204-1	mv	315	312	1.0	0-20%
Solids, Percent	GN56694	JD91204-1	%	96.9	96.7	0.2	0-10%
pH	GN56626	JD91204-1	su	6.68	6.72	0.6	0-10%
pH	GN56756	JD91204-18	su	6.84	7.60	10.5	0-10%

Associated Samples:
Batch GN56626: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17
Batch GN56627: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17
Batch GN56694: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17
Batch GN56756: JD91204-18, JD91204-19
Batch GP54991: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17
Batch GP54996: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17
Batch GP54998: JD91204-18, JD91204-19
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GP54991/GN56718	JD91204-1	mg/kg	0.0	40.5	22.5	55.6N(a)	75-125%
Chromium, Hexavalent	GP54991/GN56718	JD91204-1	mg/kg	0.0	1090	1020	93.8(b)	75-125%
Cyanide	GP54996/GN56676	JD91204-1	mg/kg	0.19	4.76	5.0	101.0	75-125%
Cyanide	GP54998/GN56676	JD90788-1	mg/l	0.14	0.2	0.28	70.0N(c)	90-110%

Associated Samples:
Batch GP54991: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17
Batch GP54996: JD91204-1, JD91204-2, JD91204-3, JD91204-4, JD91204-5, JD91204-6, JD91204-7, JD91204-8, JD91204-9, JD91204-10, JD91204-11, JD91204-12, JD91204-13, JD91204-14, JD91204-15, JD91204-16, JD91204-17
Batch GP54998: JD91204-18, JD91204-19
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Soluble XCR matrix spike recovery indicates possible matrix interference. Good post spike recovery (96__%) on this sample.
(b) Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.
(c) Spike recovery indicates possible matrix interference.

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: D062824W1.CN Date Analyzed: 06/28/24 Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT
Analyst: JD Run ID: GN56676
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:35	GN56676-STD1	1		STDA
17:36	GN56676-STD2	1		STDB
17:37	GN56676-STD3	1		STDC
17:40	GN56676-STD4	1		STDD
17:41	GN56676-STD5	1		STDE
17:42	GN56676-STD6	1		STDF
17:43	GN56676-STD7	1		STDG
17:44	GN56676-ICV1	1		
17:45	GN56676-ICB1	1		
17:46	ZZZZZZ	1		
17:47	GN56676-CCV1	1		
17:47	GN56676-CCB1	1		
17:48	GP54996-MB1	1		
17:49	GP54996-B1	1		
17:50	GP54996-S1	1		
17:51	GP54996-S2	1		
17:52	GP54996-D1	1		
17:53	ZZZZZZ	1		
17:54	JD91183-1	1		(sample used for QC only; not part of login JD91204)
17:55	JD91204-1	1		
17:56	JD91204-2	1		
17:57	JD91204-3	1		
17:58	GN56676-CCV2	1		
17:58	GN56676-CCB2	1		
17:59	JD91204-4	1		
18:00	JD91204-5	1		
18:01	JD91204-6	1		
18:02	JD91204-7	1		
18:03	JD91204-8	1		
18:04	JD91204-9	1		
18:05	JD91204-10	1		
18:06	JD91204-11	1		
18:07	JD91204-12	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: D062824W1.CN Date Analyzed: 06/28/24 Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT
Analyst: JD Run ID: GN56676
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:08	JD91204-13	1		
18:09	GN56676-CCV3	1		
18:09	GN56676-CCB3	1		
18:10	JD91204-14	1		
18:11	JD91204-15	1		
18:12	JD91204-16	1		
18:13	JD91204-17	1		
18:14	GP54997-MB1	1		
18:15	GP54997-B1	1		
18:16	GP54997-S1	1		
18:17	GP54997-D1	1		
18:18	JD91275-1	1		(sample used for QC only; not part of login JD91204)
18:19	ZZZZZZ	1		
18:20	GN56676-CCV4	1		
18:21	GN56676-CCB4	1		
18:21	ZZZZZZ	1		
18:22	ZZZZZZ	1		
18:23	ZZZZZZ	1		
18:24	ZZZZZZ	1		
18:25	ZZZZZZ	1		
18:26	ZZZZZZ	1		
18:27	GP54978-MB1	1		
18:28	GP54978-B1	1		
18:29	GP54978-S1	1		
18:30	GP54978-S2	1		
18:31	GN56676-CCV5	1		
18:32	GN56676-CCB5	1		
18:33	GP54978-D1	1		
18:33	JD91130-1	1		(sample used for QC only; not part of login JD91204)
18:34	JD91131-1	1		(sample used for QC only; not part of login JD91204)
18:35	ZZZZZZ	1		
18:36	ZZZZZZ	1		
18:37	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: D062824W1.CN Date Analyzed: 06/28/24 Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT
Analyst: JD Run ID: GN56676
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:38	ZZZZZZ	1		
18:39	ZZZZZZ	1		
18:40	ZZZZZZ	1		
18:41	ZZZZZZ	1		
18:42	GN56676-CCV6	1		
18:43	GN56676-CCB6	1		
18:43	ZZZZZZ	1		
18:44	ZZZZZZ	1		
18:45	ZZZZZZ	1		
18:46	ZZZZZZ	1		
18:47	ZZZZZZ	1		
18:48	ZZZZZZ	1		
18:49	ZZZZZZ	1		
18:50	ZZZZZZ	1		
18:51	ZZZZZZ	1		
18:52	ZZZZZZ	1		
18:53	GN56676-CCV7	1		
18:54	GN56676-CCB7	1		
18:55	ZZZZZZ	1		
18:56	GP54979-MB1	1		
18:56	GP54979-B1	1		
18:57	GP54979-S1	1		
18:58	GP54979-D1	1		
18:59	ZZZZZZ	1		
19:00	JD91122-1	1		(sample used for QC only; not part of login JD91204)
19:01	GP54998-MB1	1		
19:02	GP54998-B1	1		
19:03	GP54998-S1	1		
19:04	GN56676-CCV8	1		
19:05	GN56676-CCB8	1		
19:06	GP54998-D1	1		
19:07	ZZZZZZ	1		
19:08	JD90788-1	1		(sample used for QC only; not part of login JD91204)

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: D062824W1.CN Date Analyzed: 06/28/24 Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT
Analyst: JD Run ID: GN56676
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:08	ZZZZZZ	1		
19:09	JD91204-18	1		
19:10	JD91204-19	1		
19:15	GN56676-CCV9	1		
19:16	GN56676-CCB9	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: JD91204
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: D062824W1.CN Date Analyzed: 06/28/24 Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT
Run ID: GN56676 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN56676-ICV1	Cyanide	0.315	0.010	0.0041	.3	105.0	90-110
GN56676-ICB1	Cyanide	-0.00946	0.010	0.0041			
GN56676-CCV1	Cyanide	0.391	0.010	0.0041	.4	97.8	90-110
GN56676-CCB1	Cyanide	-0.00720	0.010	0.0041			
GN56676-CCV2	Cyanide	0.390	0.010	0.0041	.4	97.5	90-110
GN56676-CCB2	Cyanide	-0.00836	0.010	0.0041			
GN56676-CCV3	Cyanide	0.388	0.010	0.0041	.4	97.0	90-110
GN56676-CCB3	Cyanide	-0.00732	0.010	0.0041			
GN56676-CCV4	Cyanide	0.386	0.010	0.0041	.4	96.5	90-110
GN56676-CCB4	Cyanide	-0.00679	0.010	0.0041			
GN56676-CCV5	Cyanide	0.388	0.010	0.0041	.4	97.0	90-110
GN56676-CCB5	Cyanide	-0.00840	0.010	0.0041			
GN56676-CCV6	Cyanide	0.387	0.010	0.0041	.4	96.8	90-110
GN56676-CCB6	Cyanide	-0.0101 <	0.010	0.0041			
GN56676-CCV7	Cyanide	0.397	0.010	0.0041	.4	99.3	90-110
GN56676-CCB7	Cyanide	-0.00951	0.010	0.0041			
GN56676-CCV8	Cyanide	0.386	0.010	0.0041	.4	96.5	90-110
GN56676-CCB8	Cyanide	-0.00727	0.010	0.0041			
GN56676-CCV9	Cyanide	0.386	0.010	0.0041	.4	96.5	90-110
GN56676-CCB9	Cyanide	-0.00862	0.010	0.0041			

(!) Outside of QC limits

Percent Solids Raw Data Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: JD91204-1 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-26

Wet Weight (Total)	32.13	g
Tare Weight	26.91	g
Dry Weight (Total)	31.97	g
Solids, Percent	96.9	%

Sample: JD91204-2 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-27

Wet Weight (Total)	33.27	g
Tare Weight	27.85	g
Dry Weight (Total)	33.12	g
Solids, Percent	97.2	%

Sample: JD91204-3 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-25

Wet Weight (Total)	29.52	g
Tare Weight	23.43	g
Dry Weight (Total)	29.18	g
Solids, Percent	94.4	%

Sample: JD91204-4 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-16

Wet Weight (Total)	33.54	g
Tare Weight	26.99	g
Dry Weight (Total)	32.98	g
Solids, Percent	91.5	%

Sample: JD91204-5 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-28

Wet Weight (Total)	34.73	g
Tare Weight	28.35	g
Dry Weight (Total)	34.47	g
Solids, Percent	95.9	%

Sample: JD91204-6 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-24A

Wet Weight (Total)	35.23	g
Tare Weight	28.15	g
Dry Weight (Total)	35.06	g
Solids, Percent	97.6	%

Percent Solids Raw Data Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: JD91204-7 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-17

Wet Weight (Total)	33.65	g
Tare Weight	26.85	g
Dry Weight (Total)	33.43	g
Solids, Percent	96.8	%

Sample: JD91204-8 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-14A

Wet Weight (Total)	36.63	g
Tare Weight	30.62	g
Dry Weight (Total)	36.4	g
Solids, Percent	96.2	%

Sample: JD91204-9 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-15

Wet Weight (Total)	34.51	g
Tare Weight	28.51	g
Dry Weight (Total)	33.82	g
Solids, Percent	88.5	%

Sample: JD91204-10 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-2

Wet Weight (Total)	26.68	g
Tare Weight	21.64	g
Dry Weight (Total)	26.2	g
Solids, Percent	90.5	%

Sample: JD91204-11 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-19

Wet Weight (Total)	33.91	g
Tare Weight	26.92	g
Dry Weight (Total)	33.6	g
Solids, Percent	95.6	%

Sample: JD91204-12 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-13

Wet Weight (Total)	37.9	g
Tare Weight	32.2	g
Dry Weight (Total)	37.56	g
Solids, Percent	94	%

Percent Solids Raw Data Summary

Job Number: JD91204
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: JD91204-13 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-1

Wet Weight (Total)	24.57	g
Tare Weight	18.37	g
Dry Weight (Total)	23.85	g
Solids, Percent	88.4	%

Sample: JD91204-14 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-18

Wet Weight (Total)	32.1	g
Tare Weight	26.19	g
Dry Weight (Total)	31.85	g
Solids, Percent	95.8	%

Sample: JD91204-15 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-12A

Wet Weight (Total)	31.36	g
Tare Weight	24.7	g
Dry Weight (Total)	31.07	g
Solids, Percent	95.6	%

Sample: JD91204-16 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-22A

Wet Weight (Total)	30.77	g
Tare Weight	25.42	g
Dry Weight (Total)	30.41	g
Solids, Percent	93.3	%

Sample: JD91204-17 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-23

Wet Weight (Total)	34.17	g
Tare Weight	28.95	g
Dry Weight (Total)	33.84	g
Solids, Percent	93.7	%

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix New World Engineering, Inc.

Ridgewood Berm Sampling, Ridgewood, NJ

23-1429 PO#2024 1801

SGS Job Number: JD91339

Sampling Date: 06/27/24

Report to:

Matrix New World Engineering, Inc.
26 Columbia Turnpike
Florham Park, NJ 07932
mfeury@mnwe.com

ATTN: Melissa Feury

Total number of pages in report: **1597**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200
Certifications: NJ(12129), NY(10983), CA, CO, CT, FL, HI, IL, IN, KY, LA (120428), MA, MD, ME, MN, NC, NH, NV, AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX (T104704234), UT, VA, WA, WV

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SGS North America Inc.

Sample Summary

Matrix New World Engineering, Inc.

Job No: JD91339

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429 PO#2024 1801

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL							
JD91339-1	06/27/24	09:20	DC	06/28/24	SO	Soil	GRID-3
JD91339-2	06/27/24	09:40	DC	06/28/24	SO	Soil	GRID-4
JD91339-3	06/27/24	10:00	DC	06/28/24	SO	Soil	GRID-20
JD91339-4	06/27/24	10:15	DC	06/28/24	SO	Soil	GRID-11
JD91339-5	06/27/24	10:30	DC	06/28/24	SO	Soil	GRID-10A
JD91339-6	06/27/24	11:00	DC	06/28/24	SO	Soil	GRID-21
JD91339-7	06/27/24	11:15	DC	06/28/24	SO	Soil	GRID-9
JD91339-8	06/27/24	11:40	DC	06/28/24	SO	Soil	GRID-8A
JD91339-9	06/27/24	12:20	DC	06/28/24	SO	Soil	GRID-5
JD91339-10	06/27/24	12:30	DC	06/28/24	SO	Soil	GRID-6
JD91339-11	06/27/24	12:45	DC	06/28/24	SO	Soil	GRID-7
JD91339-12	06/27/24	14:00	DC	06/28/24	AQ	Field Blank Soil	FB-3

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Matrix New World Engineering, Inc.

Job No: JD91339

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429 PO#2024 1801

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD91339-13	06/27/24	00:00	DC	06/28/24	SO	Soil	DUP-1
JD91339-14	06/27/24	00:00	DC	06/28/24	SO	Soil	DUP-2

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Matrix New World Engineering, Inc.	**Job No:**	JD91339
Site:	Ridgewood Berm Sampling, Ridgewood, NJ	**Report Date**	7/9/2024 9:34:20 AM

On 06/28/2024, 13 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 4 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JD91339 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260D

Matrix: SO **Batch ID:** V1C8736

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD91336-2MS, JD91336-4DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The matrix spike (MS) recovery(s) of 1,1,2,2-Tetrachloroethane are outside control limits. Outside control limits due to matrix interference.
- JD91339-4 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD91339-6 for Vinyl chloride: Associated CCV outside of control limits high, sample was ND.
- JD91339-4 for Vinyl chloride: Associated CCV outside of control limits high, sample was ND.
- JD91339-6 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD91339-6 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD91339-4 for Acetone: Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method SW846 8270E

Matrix: AQ **Batch ID:** OP55776

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD91339-12 for Carbazole: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for Fluoranthene: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for Di-n-octyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for N-Nitroso-di-n-propylamine: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for 4-Chloroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for Diethyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for Acetophenone: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for 3&4-Methylphenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for 4-Chloro-3-methyl phenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for 4-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for Di-n-butyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.

Matrix: SO **Batch ID:** OP55800

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) JD91339-1MS, JD91339-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The matrix spike (MS) recovery(s) of 3,3'-Dichlorobenzidine are outside control limits. Outside of in house control limits.
- The matrix spike duplicate (MSD) recovery(s) of Hexachlorocyclopentadiene are outside control limits. Outside of in house control limits.
- The RPD(s) for the MS and MSD recoveries of Hexachlorocyclopentadiene are outside control limits for sample OP55800-MSD. Outside of in house control limits.
- JD91339-6 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-4 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-4 for 2,4,6-Trichlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-4 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91339-3 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91339-3 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91339-4 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-3 for Indeno(1,2,3-cd)pyrene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO **Batch ID:** OP55800

- JD91339-3 for Dibenzo(a,h)anthracene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-3 for Benzo(g,h,i)perylene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-3 for Benzo(b)fluoranthene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-5 for Indeno(1,2,3-cd)pyrene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-4 for bis(2-Chloroethyl)ether: Associated CCV outside of control limits high, sample was ND.
- JD91339-6 for Benzo(a)pyrene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-3 for Di-n-butyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91339-4 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91339-3 for Benzo(a)pyrene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-6 for Benzo(b)fluoranthene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-7 for Hexachlorobenzene: Associated CCV outside of control limits high, sample was ND.
- JD91339-5 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91339-3 for bis(2-Chloroethyl)ether: Associated CCV outside of control limits high, sample was ND.
- JD91339-8 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91339-6 for Dibenzo(a,h)anthracene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-2 for Dibenzo(a,h)anthracene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-6 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91339-6 for Di-n-butyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91339-6 for Benzo(g,h,i)perylene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-6 for Indeno(1,2,3-cd)pyrene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-6 for Hexachlorobenzene: Associated CCV outside of control limits high, sample was ND.
- JD91339-6 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91339-6 for bis(2-Chloroethyl)ether: Associated CCV outside of control limits high, sample was ND.
- JD91339-6 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91339-6 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91339-6 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-6 for 2,4,6-Trichlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-6 for Fluoranthene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-4 for Indeno(1,2,3-cd)pyrene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-5 for Hexachlorobenzene: Associated CCV outside of control limits high, sample was ND.
- JD91339-5 for bis(2-Chloroethyl)ether: Associated CCV outside of control limits high, sample was ND.
- JD91339-5 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91339-4 for Atrazine: Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO **Batch ID:** OP55800

- JD91339-5 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-5 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91339-5 for Di-n-butyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91339-4 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91339-7 for Indeno(1,2,3-cd)pyrene: Associated CCV outside of control limits high, sample was ND.
- JD91339-4 for Fluoranthene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-4 for Dibenzo(a,h)anthracene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-4 for Benzo(g,h,i)perylene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-4 for Benzo(b)fluoranthene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-4 for Hexachlorobenzene: Associated CCV outside of control limits high, sample was ND.
- JD91339-5 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91339-1 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-5 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-3 for Hexachlorobenzene: Associated CCV outside of control limits high, sample was ND.
- JD91339-3 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91339-3 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-3 for 2,4,6-Trichlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-3 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-2 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91339-2 for Indeno(1,2,3-cd)pyrene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-4 for Benzo(a)pyrene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-1 for 2,4,6-Trichlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-3 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91339-5 for 2,4,6-Trichlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-2 for Benzo(g,h,i)perylene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-5 for Fluoranthene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-5 for Benzo(g,h,i)perylene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-5 for Benzo(b)fluoranthene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-5 for Benzo(a)pyrene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-5 for Dibenzo(a,h)anthracene: Associated CCV outside of control limits high,sample was ND.
- JD91339-2 for Fluoranthene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-11 for Di-n-butyl phthalate: Associated CCV outside of control limits high, sample was ND.

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- JD91339-1 for Benzo(g,h,i)perylene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-11 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91339-9 for 2,4,6-Trichlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-11 for Benzo(a)pyrene: Associated CCV outside of control limits high, sample was ND.
- JD91339-11 for Benzo(g,h,i)perylene: Associated CCV outside of control limits high, sample was ND.
- JD91339-11 for bis(2-Chloroethyl)ether: Associated CCV outside of control limits high, sample was ND.
- JD91339-11 for 2,4,6-Trichlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-11 for Dibenzo(a,h)anthracene: Associated CCV outside of control limits high, sample was ND.
- JD91339-11 for Fluoranthene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-11 for Hexachlorobenzene: Associated CCV outside of control limits high, sample was ND.
- JD91339-11 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-11 for Benzo(b)fluoranthene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-11 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-11 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91339-2 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-11 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91339-7 for Benzo(a)pyrene: Associated CCV outside of control limits high, sample was ND.
- JD91339-7 for Fluoranthene: Associated CCV outside of control limits high, sample was ND.
- JD91339-1 for Indeno(1,2,3-cd)pyrene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-7 for Di-n-butyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91339-7 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-7 for 2,4,6-Trichlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-7 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-9 for bis(2-Chloroethyl)ether: Associated CCV outside of control limits high, sample was ND.
- JD91339-7 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91339-2 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91339-7 for Benzo(b)fluoranthene: Associated CCV outside of control limits high, sample was ND.
- JD91339-7 for Benzo(g,h,i)perylene: Associated CCV outside of control limits high, sample was ND.
- JD91339-7 for bis(2-Chloroethyl)ether: Associated CCV outside of control limits high, sample was ND.
- JD91339-7 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91339-9 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91339-1 for Fluoranthene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-7 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91339-10 for bis(2-Chloroethyl)ether: Associated CCV outside of control limits high, sample was ND.
- JD91339-10 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91339-10 for Di-n-butyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91339-10 for Hexachlorobenzene: Associated CCV outside of control limits high, sample was ND.

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- JD91339-9 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91339-10 for Fluoranthene: Associated CCV outside of control limits high, sample was ND.
- JD91339-10 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91339-2 for 2,4,6-Trichlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-10 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91339-9 for Fluoranthene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-10 for Benzo(g,h,i)perylene: Associated CCV outside of control limits high, sample was ND.
- JD91339-10 for Benzo(b)fluoranthene: Associated CCV outside of control limits high, sample was ND.
- JD91339-10 for Benzo(a)pyrene: Associated CCV outside of control limits high, sample was ND.
- JD91339-10 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91339-7 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91339-4 for Di-n-butyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91339-10 for Dibenzo(a,h)anthracene: Associated CCV outside of control limits high, sample was ND.
- JD91339-10 for 2,4,6-Trichlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-10 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-2 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91339-2 for bis(2-Chloroethyl)ether: Associated CCV outside of control limits high, sample was ND.
- JD91339-2 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91339-2 for Di-n-butyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91339-2 for Hexachlorobenzene: Associated CCV outside of control limits high, sample was ND.
- JD91339-10 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-11 for Indeno(1,2,3-cd)pyrene: Associated CCV outside of control limits high, sample was ND.
- JD91339-11 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91339-9 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91339-9 for Dibenzo(a,h)anthracene: Associated CCV outside of control limits high, sample was ND.
- JD91339-9 for Di-n-butyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91339-9 for Hexachlorobenzene: Associated CCV outside of control limits high, sample was ND.
- JD91339-9 for Indeno(1,2,3-cd)pyrene: Associated CCV outside of control limits high, sample was ND.
- JD91339-9 for Benzo(b)fluoranthene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-2 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-2 for Benzo(a)pyrene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-9 for Benzo(g,h,i)perylene: Associated CCV outside of control limits high, sample was ND.
- JD91339-2 for Benzo(b)fluoranthene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-9 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-9 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-8 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91339-8 for Fluoranthene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.

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- JD91339-8 for Indeno(1,2,3-cd)pyrene: Associated CCV outside of control limits high, sample was ND.
- JD91339-8 for Hexachlorobenzene: Associated CCV outside of control limits high, sample was ND.
- JD91339-8 for Di-n-butyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91339-9 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91339-8 for bis(2-Chloroethyl)ether: Associated CCV outside of control limits high, sample was ND.
- JD91339-8 for Dibenzo(a,h)anthracene: Associated CCV outside of control limits high, sample was ND.
- JD91339-8 for Benzo(b)fluoranthene: Associated CCV outside of control limits high, sample was ND.
- JD91339-8 for Benzo(a)pyrene: Associated CCV outside of control limits high, sample was ND.
- JD91339-8 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-8 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91339-8 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91339-8 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-8 for 2,4,6-Trichlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-1 for Benzo(b)fluoranthene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-10 for Indeno(1,2,3-cd)pyrene: Associated CCV outside of control limits high, sample was ND.
- JD91339-7 for Dibenzo(a,h)anthracene: Associated CCV outside of control limits high, sample was ND.
- JD91339-1 for Di-n-butyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91339-1 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91339-9 for Benzo(a)pyrene: Associated CCV outside of control limits high, sample was ND.
- JD91339-1 for Hexachlorobenzene: Associated CCV outside of control limits high, sample was ND.
- JD91339-8 for Benzo(g,h,i)perylene: Associated CCV outside of control limits high, sample was ND.
- JD91339-1 for Hexachlorocyclopentadiene: Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JD91339-1 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-1 for Benzo(a)pyrene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-1 for Dibenzo(a,h)anthracene: Associated CCV outside of control limits high, sample was ND.
- JD91339-1 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91339-1 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91339-1 for bis(2-Chloroethyl)ether: Associated CCV outside of control limits high, sample was ND.

Matrix: SO **Batch ID:** OP55822

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) JD91297-41MS, JD91297-41MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD91339-13 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91339-13 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91339-13 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91339-13 for 4-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-14 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91339-13 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91339-13 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method SW846 8270E

Matrix: SO **Batch ID:** OP55822

- JD91339-13 for 4-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91339-13 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91339-13 for 2,4-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91339-13 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-14 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91339-14 for 2,6-Dinitrotoluene: Associated CCV outside of control limits high, sample was ND.
- JD91339-14 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-14 for 2-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-13 for 4-Chloro-3-methyl phenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-14 for 3-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91339-14 for 4,6-Dinitro-o-cresol: Associated CCV outside of control limits high, sample was ND.
- JD91339-14 for 4-Chloro-3-methyl phenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-14 for 4-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91339-14 for 4-Nitrophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-14 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91339-13 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-14 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91339-14 for 3,3'-Dichlorobenzidine: Associated CCV outside of control limits high, sample was ND.
- JD91339-14 for Indeno(1,2,3-cd)pyrene: Associated CCV outside of control limits high, sample was ND.
- JD91339-14 for N-Nitroso-di-n-propylamine: Associated CCV outside of control limits high, sample was ND.
- JD91339-14 for 2-Nitroaniline: Associated CCV outside of control limits high, sample was ND.
- JD91339-14 for 2,3,4,6-Tetrachlorophenol: Associated CCV outside of control limits high, sample was ND.
- JD91339-13 for Indeno(1,2,3-cd)pyrene: Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
- JD91339-13 for N-Nitroso-di-n-propylamine: Associated CCV outside of control limits high, sample was ND.
- JD91339-13 for Caprolactam: Associated CCV outside of control limits high, sample was ND.
- JD91339-13 for Butyl benzyl phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91339-13 for bis(2-Ethylhexyl)phthalate: Associated CCV outside of control limits high, sample was ND.
- JD91339-13 for Atrazine: Associated CCV outside of control limits high, sample was ND.
- JD91339-14 for bis(2-Ethylhexyl)phthalate: Associated CCV outside of control limits high, sample was ND.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: AQ **Batch ID:** OP55806

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- OP55806-BSD for Endosulfan-I: Analytical precision exceeds in-house control limits.

Matrix: SO **Batch ID:** OP55792

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) JD91339-1MS, JD91339-1MSD, OP55792-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The matrix spike duplicate (MSD) recovery(s) of Methoxychlor are outside control limits. Outside of in house control limits.
- JD91339-7 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-6 for Heptachlor epoxide: Reported from 2nd signal. Internal standard outside the limits on the 1st signal.
- JD91339-9 for Methoxychlor: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-6 for 4,4'-DDD: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-9 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-2 for 4,4'-DDT: Reported from 2nd signal. Internal standard outside the limits on the 1st signal.
- JD91339-6 for Methoxychlor: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-6 for gamma-Chlordane: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-6 for Endosulfan-II: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-6 for Dieldrin: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-4 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JD91339-2 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91339-2 for alpha-BHC: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-2 for beta-BHC: Associated CCV outside of control limits high, sample was ND.
- JD91339-1 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-1 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-4 for 4,4'-DDD: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-9 for gamma-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-5 for 4,4'-DDT: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-4 for 4,4'-DDT: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-4 for alpha-Chlordane: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-4 for Endosulfan-II: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-4 for gamma-Chlordane: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-4 for Heptachlor epoxide: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO **Batch ID:** OP55792

- JD91339-5 for beta-BHC: Associated CCV outside of control limits high, sample was ND.
- JD91339-5 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91339-6 for 4,4'-DDE: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-4 for Dieldrin: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-5 for 4,4'-DDE: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-9 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-5 for gamma-Chlordane: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-5 for Heptachlor epoxide: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-6 for beta-BHC: Associated CCV outside of control limits high, sample was ND.
- JD91339-6 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91339-6 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JD91339-6 for 4,4'-DDT: Reported from 2nd signal. Internal standard outside the limits on the 1st signal.
- JD91339-6 for alpha-Chlordane: Reported from 2nd signal. Internal standard outside the limits on the 1st signal.
- JD91339-5 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JD91339-5 for alpha-Chlordane: Reported from 2nd signal. Internal standard outside the limits on the 1st signal.
- JD91339-3 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91339-3 for gamma-Chlordane: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-4 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD91339-4 for beta-BHC: Associated CCV outside of control limits high, sample was ND.
- JD91339-3 for beta-BHC: Associated CCV outside of control limits high, sample was ND.
- JD91339-3 for Endrin: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-3 for alpha-Chlordane: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-3 for 4,4'-DDE: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-3 for 4,4'-DDD: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-3 for 4,4'-DDT: Reported from 2nd signal. Internal standard outside the limits on the 1st signal.
- JD91339-2 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JD91339-2 for 4,4'-DDE: Reported from 2nd signal. Internal standard outside the limits on the 1st signal.
- JD91339-2 for Heptachlor epoxide: Reported from 2nd signal. Internal standard outside the limits on the 1st signal.
- JD91339-3 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JD91339-5 for 4,4'-DDD: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-4 for 4,4'-DDE: Reported from 2nd signal. Internal standard outside the limits on the 1st signal.
- JD91339-2 for alpha-Chlordane: Reported from 2nd signal. Internal standard outside the limits on the 1st signal.
- JD91339-2 for 4,4'-DDD: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-2 for Dieldrin: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO **Batch ID:** OP55792

- JD91339-2 for Endosulfan-II: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-2 for gamma-Chlordane: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-2 for Methoxychlor: Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.

Matrix: SO **Batch ID:** OP55825

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91383-1MS, JD91383-1MSD, OP55825-MSMSD were used as the QC samples indicated.
- JD91339-13 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-13 for Heptachlor epoxide: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-14 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- JD91339-13 for 4,4'-DDT: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD91339-13 for alpha-Chlordane: More than 40 % RPD for detected concentrations between the two GC columns.
- OP55825-BS1 for Endrin aldehyde: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
- OP55825-BS1 for Endosulfan sulfate: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
- OP55825-BS1 for 4,4'-DDT: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD91339-14 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- OP55825-BS1 for Endrin ketone: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: AQ **Batch ID:** OP55807

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD91339-12 for Aroclor 1260: Associated CCV outside of control limits high, sample was ND.
- JD91339-12 for Aroclor 1016: Associated CCV outside of control limits high, sample was ND.

Matrix: SO **Batch ID:** OP55793

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91339-2MS, JD91339-2MSD, OP55793-MSMSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP55826

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91339-13MS, JD91339-13MSD, OP55826-MSMSD were used as the QC samples indicated.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP47607

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91365-5MS, JD91365-5MSD, JD91365-5SDL were used as the QC samples for the metals analysis.
- The serial dilution RPD(s) for Chromium, Cobalt, Iron, Lead, Selenium, Silver, Thallium, Zinc are outside control limits for sample MP47607-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO **Batch ID:** MP47600

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91339-1MS, JD91339-1MSD, JD91339-1PS, JD91339-1SDL were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Aluminum, Antimony are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- The matrix spike duplicate (MSD) recovery(s) of Antimony are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- The matrix spike (MS) recovery(s) of Iron are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- The serial dilution RPD(s) for Antimony, Beryllium, Cadmium, Selenium, Silver, Sodium are outside control limits for sample MP47600-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO **Batch ID:** MP47605

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91373-1MS, JD91373-1MSD, JD91373-1PS, JD91373-1SDL were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Antimony, Calcium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- The matrix spike duplicate (MSD) recovery(s) of Antimony, Manganese are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- The matrix spike (MS) recovery(s) of Iron are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- The RPD(s) for the MS and MSD recoveries of Calcium are outside control limits for sample MP47605-S2. High rpd due to possible sample nonhomogeneity.
- The serial dilution RPD(s) for Antimony, Silver, Sodium are outside control limits for sample MP47605-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method SW846 7470A

Matrix: AQ **Batch ID:** MP47621

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91255-1MS, JD91255-1MSD were used as the QC samples for the metals analysis.

Metals Analysis By Method SW846 7471B

Matrix:	SO	Batch ID:	MP47629

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91349-5MS, JD91349-5MSD, JD91349-5PS were used as the QC samples for the metals analysis.
- The matrix spike duplicate (MSD) recovery(s) of Mercury are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Matrix:	SO	Batch ID:	MP47630

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91339-6MSD, JD91339-6PS, JD91339-6MS were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Mercury are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- The matrix spike duplicate (MSD) recovery(s) of Mercury are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Matrix:	SO	Batch ID:	MP47655

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91339-13MSD, JD91339-13PS, JD91339-13MS were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Mercury are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- The matrix spike duplicate (MSD) recovery(s) of Mercury are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

General Chemistry By Method ASTM D1498-76

Matrix:	AQ	Batch ID:	GN56776

- The data for ASTM D1498-76 meets quality control requirements.

General Chemistry By Method ASTM D1498-76M

Matrix:	SO	Batch ID:	GN56781

- Sample(s) JD91320-1DUP were used as the QC samples for the Redox Potential Vs H2 analysis.

General Chemistry By Method EPA 335.4/LACHAT

Matrix:	AQ	Batch ID:	GP55079

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) LB3848-2DUP, LB3848-2MS were used as the QC samples for the Cyanide analysis.
- The matrix spike (MS) recovery(s) of Cyanide are outside control limits. Spike recovery indicates possible matrix interference.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO **Batch ID:** GN56692

- Sample(s) JD91339-1DUP were used as the QC samples for the Solids, Percent analysis.

Matrix: SO **Batch ID:** GN56764

- Sample(s) JD91341-1DUP were used as the QC samples for the Solids, Percent analysis.

General Chemistry By Method SM4500H+ B-11

Matrix: AQ **Batch ID:** GN56756

- Sample(s) JD91204-18DUP were used as the QC samples for the pH analysis.
- The duplicate RPD(s) for pH are outside control limits for sample GN56756-D1. Probable cause due to sample homogeneity.
- JD91339-12 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.74 Deg. C

General Chemistry By Method SW846 3060A/7196A

Matrix: SO **Batch ID:** GP55036

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91339-7DUP, JD91339-7MS were used as the QC samples for the Chromium, Hexavalent analysis.
- The matrix spike (MS) recovery(s) of Chromium, Hexavalent are outside control limits. Soluble XCR matrix spike recovery indicates possible matrix interference. Good post spike recovery (106_%) on this sample.

General Chemistry By Method SW846 7196A

Matrix: AQ **Batch ID:** GN56812

- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91529-13DUP, JD91529-13MS were used as the QC samples for the Chromium, Hexavalent analysis.
- The following samples were run outside of holding time for method SW846 7196A: JD91339-12 Analysis done out of holding time.

General Chemistry By Method SW846 9012B/LACHAT

Matrix: SO **Batch ID:** GP55027

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91351-13MS, JD91351-13DUP were used as the QC samples for the Cyanide analysis.
- The duplicate RPD(s) for Cyanide are outside control limits for sample GP55027-D1. RPD acceptable due to low duplicate and sample concentrations.

Matrix: SO **Batch ID:** GP55080

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD91339-13DUP, JD91339-13MS were used as the QC samples for the Cyanide analysis.

General Chemistry By Method SW846 9045D

Matrix: SO **Batch ID:** GN56783

- Sample(s) JD91320-1DUP were used as the QC samples for the pH analysis.
- JD91339-13 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.6 Deg. C
- JD91339-9 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C
- JD91339-8 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C
- JD91339-7 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C
- JD91339-6 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C
- JD91339-5 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.9 Deg. C
- JD91339-4 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.6 Deg. C
- JD91339-2 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C
- JD91339-11 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C
- JD91339-14 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.4 Deg. C
- JD91339-3 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.9 Deg. C
- JD91339-10 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C
- JD91339-1 for pH: Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JD91339
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/27/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD91339-1	**GRID-3**					
Benzo(a)anthracene		0.0571 J	0.072	0.020	mg/kg	SW846 8270E
Benzo(a)pyrene [a]		0.0701 J	0.072	0.033	mg/kg	SW846 8270E
Benzo(b)fluoranthene [a]		0.0855	0.072	0.032	mg/kg	SW846 8270E
Benzo(g,h,i)perylene [a]		0.0610 J	0.072	0.036	mg/kg	SW846 8270E
Butyl benzyl phthalate		0.115 J	0.14	0.018	mg/kg	SW846 8270E
Chrysene		0.0695 J	0.072	0.023	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.123 J	0.14	0.017	mg/kg	SW846 8270E
Fluoranthene [a]		0.143	0.072	0.032	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene [a]		0.0440 J	0.072	0.034	mg/kg	SW846 8270E
Phenanthrene		0.0744	0.072	0.024	mg/kg	SW846 8270E
Pyrene		0.120	0.072	0.023	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		19.89 J			mg/kg	
alpha-Chlordane [b]		0.00024 J	0.00045	0.000060	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.00030 J	0.00045	0.000060	mg/kg	SW846 8081B
Dieldrin		0.00017 J	0.00045	0.000071	mg/kg	SW846 8081B
4,4'-DDE		0.0011	0.00045	0.000053	mg/kg	SW846 8081B
4,4'-DDT		0.0017	0.00045	0.000078	mg/kg	SW846 8081B
Heptachlor epoxide [b]		0.00013 J	0.00045	0.000080	mg/kg	SW846 8081B
Aluminum		10500	56		mg/kg	SW846 6010D
Arsenic		6.6	2.2		mg/kg	SW846 6010D
Barium		45.1	22		mg/kg	SW846 6010D
Beryllium		0.43	0.22		mg/kg	SW846 6010D
Chromium		10.9	1.1		mg/kg	SW846 6010D
Copper		14.1	2.8		mg/kg	SW846 6010D
Iron		14800	56		mg/kg	SW846 6010D
Lead		53.0	2.2		mg/kg	SW846 6010D
Magnesium		1310	560		mg/kg	SW846 6010D
Manganese		204	1.7		mg/kg	SW846 6010D
Mercury		0.19	0.034		mg/kg	SW846 7471B
Nickel		7.4	4.5		mg/kg	SW846 6010D
Vanadium		21.0	5.6		mg/kg	SW846 6010D
Zinc		33.7	5.6		mg/kg	SW846 6010D
Cyanide		0.68	0.26		mg/kg	SW846 9012B/LACHAT
Redox Potential Vs H2		426			mv	ASTM D1498-76M
pH [c]		3.30			su	SW846 9045D
JD91339-2	**GRID-4**					
Acenaphthene		0.0234 J	0.064	0.022	mg/kg	SW846 8270E
Acenaphthylene		0.179	0.064	0.032	mg/kg	SW846 8270E
Anthracene		0.143	0.064	0.039	mg/kg	SW846 8270E
Benzo(a)anthracene		0.477	0.064	0.018	mg/kg	SW846 8270E
Benzo(a)pyrene [a]		0.642	0.064	0.029	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD91339
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/27/24

Lab Sample ID / Analyte	Client Sample ID / Result/ Qual	RL	MDL	Units	Method
Benzo(b)fluoranthene [a]	0.684	0.064	0.028	mg/kg	SW846 8270E
Benzo(g,h,i)perylene [a]	0.527	0.064	0.032	mg/kg	SW846 8270E
Benzo(k)fluoranthene	0.182	0.064	0.030	mg/kg	SW846 8270E
Butyl benzyl phthalate	0.113 J	0.13	0.016	mg/kg	SW846 8270E
Carbazole	0.0244 J	0.13	0.0092	mg/kg	SW846 8270E
Chrysene	0.485	0.064	0.020	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene [a]	0.0407 J	0.064	0.028	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate	0.108 J	0.13	0.015	mg/kg	SW846 8270E
Fluoranthene [a]	0.877	0.064	0.028	mg/kg	SW846 8270E
Fluorene	0.0335 J	0.064	0.029	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene [a]	0.406	0.064	0.030	mg/kg	SW846 8270E
Phenanthrene	0.289	0.064	0.021	mg/kg	SW846 8270E
Pyrene	0.872	0.064	0.020	mg/kg	SW846 8270E
Total TIC, Semi-Volatile	0.65 J			mg/kg	
alpha-BHC [b]	0.000050 J	0.00040	0.000046	mg/kg	SW846 8081B
alpha-Chlordane [d]	0.0079	0.00040	0.000055	mg/kg	SW846 8081B
gamma-Chlordane [e]	0.0050	0.00040	0.000061	mg/kg	SW846 8081B
Chlordane (alpha and gamma)	0.0086	0.00040	0.000055	mg/kg	SW846 8081B
Dieldrin [e]	0.00035 J	0.00040	0.000065	mg/kg	SW846 8081B
4,4'-DDD [e]	0.0018	0.00040	0.000042	mg/kg	SW846 8081B
4,4'-DDE [d]	0.0036	0.00040	0.000048	mg/kg	SW846 8081B
4,4'-DDT [d]	0.0038	0.00040	0.000071	mg/kg	SW846 8081B
Endosulfan-I	0.00056	0.00040	0.000055	mg/kg	SW846 8081B
Endosulfan-II [e]	0.0016	0.00040	0.000057	mg/kg	SW846 8081B
Heptachlor epoxide [d]	0.0022	0.00040	0.000073	mg/kg	SW846 8081B
Methoxychlor [e]	0.0059	0.00040	0.00016	mg/kg	SW846 8081B
Aluminum	6060	54		mg/kg	SW846 6010D
Arsenic	2.8	2.2		mg/kg	SW846 6010D
Barium	34.1	22		mg/kg	SW846 6010D
Beryllium	0.36	0.22		mg/kg	SW846 6010D
Calcium	1510	540		mg/kg	SW846 6010D
Chromium	9.9	1.1		mg/kg	SW846 6010D
Copper	10.8	2.7		mg/kg	SW846 6010D
Iron	11200	54		mg/kg	SW846 6010D
Lead	21.6	2.2		mg/kg	SW846 6010D
Magnesium	1670	540		mg/kg	SW846 6010D
Manganese	205	1.6		mg/kg	SW846 6010D
Mercury	0.098	0.033		mg/kg	SW846 7471B
Nickel	10.5	4.3		mg/kg	SW846 6010D
Vanadium	15.7	5.4		mg/kg	SW846 6010D
Zinc	32.8	5.4		mg/kg	SW846 6010D
Redox Potential Vs H2	378			mv	ASTM D1498-76M
pH [c]	6.77			su	SW846 9045D

Summary of Hits

Job Number: JD91339
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/27/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD91339-3	**GRID-20**					
Acenaphthene		1.15	0.037	0.013	mg/kg	SW846 8270E
Acenaphthylene		0.276	0.037	0.019	mg/kg	SW846 8270E
Anthracene		2.49	0.037	0.023	mg/kg	SW846 8270E
Benzo(a)anthracene		3.37	0.037	0.010	mg/kg	SW846 8270E
Benzo(a)pyrene [a]		3.35	0.037	0.017	mg/kg	SW846 8270E
Benzo(b)fluoranthene [a]		3.41	0.037	0.016	mg/kg	SW846 8270E
Benzo(g,h,i)perylene [a]		2.31	0.037	0.018	mg/kg	SW846 8270E
Benzo(k)fluoranthene		1.30	0.037	0.017	mg/kg	SW846 8270E
1,1'-Biphenyl		0.120	0.074	0.0050	mg/kg	SW846 8270E
Carbazole		0.699	0.074	0.0053	mg/kg	SW846 8270E
Chrysene		2.96	0.037	0.012	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene [a]		0.188	0.037	0.016	mg/kg	SW846 8270E
Dibenzofuran		0.810	0.074	0.015	mg/kg	SW846 8270E
Fluoranthene		11.5	0.37	0.16	mg/kg	SW846 8270E
Fluorene		1.36	0.037	0.017	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene [a]		1.84	0.037	0.017	mg/kg	SW846 8270E
2-Methylnaphthalene		0.439	0.037	0.0083	mg/kg	SW846 8270E
Naphthalene		0.996	0.037	0.010	mg/kg	SW846 8270E
Phenanthrene		9.84	0.37	0.12	mg/kg	SW846 8270E
Pyrene		9.48	0.37	0.12	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		13.53 J			mg/kg	
alpha-Chlordane [e]		0.00061	0.00044	0.000060	mg/kg	SW846 8081B
gamma-Chlordane [e]		0.0012	0.00044	0.000066	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.00025 J	0.00044	0.000060	mg/kg	SW846 8081B
4,4'-DDD [e]		0.0031	0.00044	0.000047	mg/kg	SW846 8081B
4,4'-DDE [e]		0.0022	0.00044	0.000053	mg/kg	SW846 8081B
4,4'-DDT [d]		0.0022	0.00044	0.000078	mg/kg	SW846 8081B
Endrin [e]		0.00075	0.00044	0.000064	mg/kg	SW846 8081B
Aluminum		7170	54		mg/kg	SW846 6010D
Arsenic		2.6	2.2		mg/kg	SW846 6010D
Barium		30.5	22		mg/kg	SW846 6010D
Beryllium		0.37	0.22		mg/kg	SW846 6010D
Calcium		709	540		mg/kg	SW846 6010D
Chromium		8.3	1.1		mg/kg	SW846 6010D
Copper		9.5	2.7		mg/kg	SW846 6010D
Iron		10800	54		mg/kg	SW846 6010D
Lead		21.6	2.2		mg/kg	SW846 6010D
Magnesium		1310	540		mg/kg	SW846 6010D
Manganese		195	1.6		mg/kg	SW846 6010D
Mercury		0.11	0.030		mg/kg	SW846 7471B
Nickel		7.3	4.3		mg/kg	SW846 6010D
Vanadium		14.9	5.4		mg/kg	SW846 6010D
Zinc		28.6	5.4		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD91339
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/27/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Redox Potential Vs H2		381			mv	ASTM D1498-76M
pH [f]		5.45			su	SW846 9045D
JD91339-4	**GRID-11**					
Acenaphthene		0.0970	0.068	0.023	mg/kg	SW846 8270E
Acenaphthylene		0.289	0.068	0.035	mg/kg	SW846 8270E
Anthracene		0.440	0.068	0.042	mg/kg	SW846 8270E
Benzo(a)anthracene		0.887	0.068	0.019	mg/kg	SW846 8270E
Benzo(a)pyrene [a]		0.997	0.068	0.031	mg/kg	SW846 8270E
Benzo(b)fluoranthene [a]		0.947	0.068	0.030	mg/kg	SW846 8270E
Benzo(g,h,i)perylene [a]		0.741	0.068	0.034	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.362	0.068	0.032	mg/kg	SW846 8270E
Carbazole		0.126 J	0.14	0.0099	mg/kg	SW846 8270E
Chrysene		0.909	0.068	0.021	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene [a]		0.0584 J	0.068	0.030	mg/kg	SW846 8270E
Dibenzofuran		0.0452 J	0.14	0.028	mg/kg	SW846 8270E
Fluoranthene [a]		1.82	0.068	0.030	mg/kg	SW846 8270E
Fluorene		0.147	0.068	0.031	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene [a]		0.554	0.068	0.032	mg/kg	SW846 8270E
2-Methylnaphthalene		0.0168 J	0.068	0.015	mg/kg	SW846 8270E
Naphthalene		0.0218 J	0.068	0.019	mg/kg	SW846 8270E
Phenanthrene		1.13	0.068	0.023	mg/kg	SW846 8270E
Pyrene		1.62	0.068	0.022	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		4.4 J			mg/kg	
alpha-Chlordane [e]		0.0012	0.00040	0.000054	mg/kg	SW846 8081B
gamma-Chlordane [e]		0.0012	0.00040	0.000060	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.0014	0.00040	0.000054	mg/kg	SW846 8081B
Dieldrin [e]		0.00041	0.00040	0.000064	mg/kg	SW846 8081B
4,4'-DDD [e]		0.0019	0.00040	0.000042	mg/kg	SW846 8081B
4,4'-DDE [d]		0.0016	0.00040	0.000048	mg/kg	SW846 8081B
4,4'-DDT [e]		0.0032	0.00040	0.000070	mg/kg	SW846 8081B
Endosulfan-II [e]		0.0019	0.00040	0.000056	mg/kg	SW846 8081B
Heptachlor epoxide [e]		0.00030 J	0.00040	0.000072	mg/kg	SW846 8081B
Aluminum		4060	54		mg/kg	SW846 6010D
Barium		40.8	22		mg/kg	SW846 6010D
Beryllium		0.25	0.22		mg/kg	SW846 6010D
Cadmium		0.66	0.54		mg/kg	SW846 6010D
Calcium		1150	540		mg/kg	SW846 6010D
Chromium		7.0	1.1		mg/kg	SW846 6010D
Copper		10.7	2.7		mg/kg	SW846 6010D
Iron		9430	54		mg/kg	SW846 6010D
Lead		10.7	2.2		mg/kg	SW846 6010D
Magnesium		1570	540		mg/kg	SW846 6010D
Manganese		295	1.6		mg/kg	SW846 6010D

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Mercury		0.076	0.028		mg/kg	SW846 7471B
Nickel		6.4	4.3		mg/kg	SW846 6010D
Vanadium		11.2	5.4		mg/kg	SW846 6010D
Zinc		19.8	5.4		mg/kg	SW846 6010D
Redox Potential Vs H2		373			mv	ASTM D1498-76M
pH [g]		7.09			su	SW846 9045D
JD91339-5	**GRID-10A**					
Acenaphthylene		0.0384 J	0.039	0.020	mg/kg	SW846 8270E
Anthracene		0.0283 J	0.039	0.024	mg/kg	SW846 8270E
Benzo(a)anthracene		0.105	0.039	0.011	mg/kg	SW846 8270E
Benzo(a)pyrene [a]		0.122	0.039	0.018	mg/kg	SW846 8270E
Benzo(b)fluoranthene [a]		0.130	0.039	0.017	mg/kg	SW846 8270E
Benzo(g,h,i)perylene [a]		0.0965	0.039	0.019	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.0459	0.039	0.018	mg/kg	SW846 8270E
Carbazole		0.0095 J	0.078	0.0057	mg/kg	SW846 8270E
Chrysene		0.115	0.039	0.012	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.0710 J	0.078	0.0091	mg/kg	SW846 8270E
Fluoranthene [a]		0.197	0.039	0.017	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene [a]		0.0729	0.039	0.018	mg/kg	SW846 8270E
Phenanthrene		0.0794	0.039	0.013	mg/kg	SW846 8270E
Pyrene		0.195	0.039	0.012	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		6.56 J			mg/kg	
alpha-Chlordane [d]		0.00086	0.00046	0.000062	mg/kg	SW846 8081B
gamma-Chlordane [e]		0.00032 J	0.00046	0.000069	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.00098	0.00046	0.000062	mg/kg	SW846 8081B
4,4'-DDD [e]		0.0023	0.00046	0.000048	mg/kg	SW846 8081B
4,4'-DDE [e]		0.0105	0.00046	0.000055	mg/kg	SW846 8081B
4,4'-DDT [e]		0.0051	0.00046	0.000080	mg/kg	SW846 8081B
Heptachlor epoxide [e]		0.00032 J	0.00046	0.000083	mg/kg	SW846 8081B
Aroclor 1262		0.0053 J	0.023	0.0019	mg/kg	SW846 8082A
Aluminum		10000	58		mg/kg	SW846 6010D
Arsenic		6.3	2.3		mg/kg	SW846 6010D
Barium		89.1	23		mg/kg	SW846 6010D
Beryllium		0.57	0.23		mg/kg	SW846 6010D
Calcium		1750	580		mg/kg	SW846 6010D
Chromium		21.1	1.2		mg/kg	SW846 6010D
Copper		18.1	2.9		mg/kg	SW846 6010D
Iron		15000	58		mg/kg	SW846 6010D
Lead		145	2.3		mg/kg	SW846 6010D
Magnesium		1610	580		mg/kg	SW846 6010D
Manganese		341	1.8		mg/kg	SW846 6010D
Mercury		1.0	0.062		mg/kg	SW846 7471B
Nickel		10.8	4.7		mg/kg	SW846 6010D

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Collected: 06/27/24

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Vanadium		27.1	5.8		mg/kg	SW846 6010D
Zinc		78.0	5.8		mg/kg	SW846 6010D
Redox Potential Vs H2		378			mv	ASTM D1498-76M
pH [f]		5.94			su	SW846 9045D
JD91339-6	**GRID-21**					
Acenaphthene		0.0404	0.036	0.012	mg/kg	SW846 8270E
Acenaphthylene		0.196	0.036	0.018	mg/kg	SW846 8270E
Anthracene		0.244	0.036	0.022	mg/kg	SW846 8270E
Benzo(a)anthracene		0.735	0.036	0.010	mg/kg	SW846 8270E
Benzo(a)pyrene [a]		0.913	0.036	0.016	mg/kg	SW846 8270E
Benzo(b)fluoranthene [a]		1.02	0.036	0.016	mg/kg	SW846 8270E
Benzo(g,h,i)perylene [a]		0.713	0.036	0.018	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.319	0.036	0.017	mg/kg	SW846 8270E
1,1'-Biphenyl		0.0069 J	0.072	0.0049	mg/kg	SW846 8270E
Carbazole		0.0400 J	0.072	0.0052	mg/kg	SW846 8270E
Chrysene		0.728	0.036	0.011	mg/kg	SW846 8270E
Dibenzo(a,h)anthracene [a]		0.0573	0.036	0.016	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.0691 J	0.072	0.0084	mg/kg	SW846 8270E
Fluoranthene [a]		1.29	0.036	0.016	mg/kg	SW846 8270E
Fluorene		0.0578	0.036	0.017	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene [a]		0.539	0.036	0.017	mg/kg	SW846 8270E
2-Methylnaphthalene		0.0406	0.036	0.0081	mg/kg	SW846 8270E
Naphthalene		0.0388	0.036	0.010	mg/kg	SW846 8270E
Phenanthrene		0.499	0.036	0.012	mg/kg	SW846 8270E
Pyrene		1.12	0.036	0.012	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		5.01 J			mg/kg	
alpha-Chlordane [d]		0.0051	0.00041	0.000055	mg/kg	SW846 8081B
gamma-Chlordane [e]		0.0041	0.00041	0.000061	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.0069	0.00041	0.000055	mg/kg	SW846 8081B
Dieldrin [e]		0.0012	0.00041	0.000065	mg/kg	SW846 8081B
4,4'-DDD [e]		0.0019	0.00041	0.000043	mg/kg	SW846 8081B
4,4'-DDE [e]		0.0022	0.00041	0.000049	mg/kg	SW846 8081B
4,4'-DDT [d]		0.0024	0.00041	0.000071	mg/kg	SW846 8081B
Endosulfan-II [e]		0.0014	0.00041	0.000057	mg/kg	SW846 8081B
Heptachlor epoxide [d]		0.00065	0.00041	0.000073	mg/kg	SW846 8081B
Methoxychlor [e]		0.0044	0.00041	0.00016	mg/kg	SW846 8081B
Aluminum		5610	52		mg/kg	SW846 6010D
Arsenic		2.5	2.1		mg/kg	SW846 6010D
Barium		31.0	21		mg/kg	SW846 6010D
Beryllium		0.30	0.21		mg/kg	SW846 6010D
Calcium		1700	520		mg/kg	SW846 6010D
Chromium		8.5	1.0		mg/kg	SW846 6010D
Copper		16.0	2.6		mg/kg	SW846 6010D

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Iron		10100	52		mg/kg	SW846 6010D
Lead		24.4	2.1		mg/kg	SW846 6010D
Magnesium		1790	520		mg/kg	SW846 6010D
Manganese		209	1.6		mg/kg	SW846 6010D
Mercury		0.10	0.031		mg/kg	SW846 7471B
Nickel		7.9	4.2		mg/kg	SW846 6010D
Vanadium		15.6	5.2		mg/kg	SW846 6010D
Zinc		33.3	5.2		mg/kg	SW846 6010D
Redox Potential Vs H2		368			mv	ASTM D1498-76M
pH [c]		6.71			su	SW846 9045D
JD91339-7	**GRID-9**					
bis(2-Ethylhexyl)phthalate		0.106 J	0.13	0.016	mg/kg	SW846 8270E
Phenanthrene		0.0460 J	0.067	0.022	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		3.08 J			mg/kg	
Dieldrin		0.000089 J	0.00041	0.000065	mg/kg	SW846 8081B
4,4'-DDE		0.00016 J	0.00041	0.000049	mg/kg	SW846 8081B
4,4'-DDT [b]		0.000073 J	0.00041	0.000071	mg/kg	SW846 8081B
Aluminum		10000	54		mg/kg	SW846 6010D
Arsenic		3.1	2.2		mg/kg	SW846 6010D
Barium		28.6	22		mg/kg	SW846 6010D
Beryllium		0.46	0.22		mg/kg	SW846 6010D
Chromium		9.3	1.1		mg/kg	SW846 6010D
Copper		7.9	2.7		mg/kg	SW846 6010D
Iron		13200	54		mg/kg	SW846 6010D
Lead		12.9	2.2		mg/kg	SW846 6010D
Magnesium		1350	540		mg/kg	SW846 6010D
Manganese		239	1.6		mg/kg	SW846 6010D
Mercury		0.089	0.029		mg/kg	SW846 7471B
Nickel		8.8	4.4		mg/kg	SW846 6010D
Vanadium		16.0	5.4		mg/kg	SW846 6010D
Zinc		23.8	5.4		mg/kg	SW846 6010D
Redox Potential Vs H2		426			mv	ASTM D1498-76M
pH [c]		3.72			su	SW846 9045D
JD91339-8	**GRID-8A**					
Benzaldehyde		0.129 J	0.44	0.022	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.144 J	0.18	0.020	mg/kg	SW846 8270E
Fluoranthene [a]		0.0481 J	0.088	0.039	mg/kg	SW846 8270E
Phenanthrene		0.0297 J	0.088	0.029	mg/kg	SW846 8270E
Pyrene		0.0472 J	0.088	0.028	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		8.02 J			mg/kg	
4,4'-DDD		0.000080 J	0.00052	0.000054	mg/kg	SW846 8081B

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4,4'-DDE		0.00016 J	0.00052	0.000062	mg/kg	SW846 8081B
4,4'-DDT		0.00023 J	0.00052	0.000091	mg/kg	SW846 8081B
Aluminum		14300	65		mg/kg	SW846 6010D
Arsenic		5.4	2.6		mg/kg	SW846 6010D
Barium		50.5	26		mg/kg	SW846 6010D
Beryllium		0.66	0.26		mg/kg	SW846 6010D
Chromium		15.4	1.3		mg/kg	SW846 6010D
Cobalt		6.8	6.5		mg/kg	SW846 6010D
Copper		10.2	3.2		mg/kg	SW846 6010D
Iron		20300	65		mg/kg	SW846 6010D
Lead		33.6	2.6		mg/kg	SW846 6010D
Magnesium		2260	650		mg/kg	SW846 6010D
Manganese		439	1.9		mg/kg	SW846 6010D
Mercury		0.16	0.036		mg/kg	SW846 7471B
Nickel		12.0	5.2		mg/kg	SW846 6010D
Vanadium		26.3	6.5		mg/kg	SW846 6010D
Zinc		41.1	6.5		mg/kg	SW846 6010D
Cyanide		0.56	0.31		mg/kg	SW846 9012B/LACHAT
Redox Potential Vs H2		337			mv	ASTM D1498-76M
pH [h]		4.24			su	SW846 9045D
JD91339-9	**GRID-5**					
Benzo(a)anthracene		0.0283 J	0.070	0.020	mg/kg	SW846 8270E
Benzo(b)fluoranthene [a]		0.0352 J	0.070	0.031	mg/kg	SW846 8270E
Butyl benzyl phthalate		0.111 J	0.14	0.017	mg/kg	SW846 8270E
Chrysene		0.0252 J	0.070	0.022	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.115 J	0.14	0.016	mg/kg	SW846 8270E
Fluoranthene [a]		0.0464 J	0.070	0.031	mg/kg	SW846 8270E
Phenanthrene		0.0278 J	0.070	0.023	mg/kg	SW846 8270E
Pyrene		0.0457 J	0.070	0.022	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		5.15 J			mg/kg	
alpha-Chlordane [b]		0.00036 J	0.00042	0.000057	mg/kg	SW846 8081B
gamma-Chlordane [b]		0.00045	0.00042	0.000063	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.00082	0.00042	0.000057	mg/kg	SW846 8081B
Dieldrin		0.00018 J	0.00042	0.000068	mg/kg	SW846 8081B
4,4'-DDD		0.0209	0.00042	0.000044	mg/kg	SW846 8081B
4,4'-DDE		0.200	0.0085	0.0010	mg/kg	SW846 8081B
4,4'-DDT		0.0878	0.0021	0.00037	mg/kg	SW846 8081B
Heptachlor epoxide [b]		0.00057	0.00042	0.000076	mg/kg	SW846 8081B
Methoxychlor [i]		0.0012	0.00042	0.00017	mg/kg	SW846 8081B
Aroclor 1262		0.0055 J	0.021	0.0018	mg/kg	SW846 8082A
Aluminum		9140	54		mg/kg	SW846 6010D
Arsenic		4.7	2.2		mg/kg	SW846 6010D
Barium		41.9	22		mg/kg	SW846 6010D

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Beryllium		0.43	0.22		mg/kg	SW846 6010D
Chromium		10.6	1.1		mg/kg	SW846 6010D
Copper		15.1	2.7		mg/kg	SW846 6010D
Iron		12800	54		mg/kg	SW846 6010D
Lead		48.1	2.2		mg/kg	SW846 6010D
Magnesium		1490	540		mg/kg	SW846 6010D
Manganese		302	1.6		mg/kg	SW846 6010D
Mercury		0.18	0.034		mg/kg	SW846 7471B
Nickel		8.9	4.3		mg/kg	SW846 6010D
Vanadium		16.1	5.4		mg/kg	SW846 6010D
Zinc		36.9	5.4		mg/kg	SW846 6010D
Redox Potential Vs H2		353			mv	ASTM D1498-76M
pH [c]		4.23			su	SW846 9045D
JD91339-10	**GRID-6**					
Benzaldehyde		0.174 J	0.18	0.0091	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.0586 J	0.073	0.0086	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		4.62 J			mg/kg	
4,4'-DDD		0.000082 J	0.00042	0.000044	mg/kg	SW846 8081B
4,4'-DDE		0.00031 J	0.00042	0.000051	mg/kg	SW846 8081B
4,4'-DDT		0.00016 J	0.00042	0.000074	mg/kg	SW846 8081B
Aluminum		12000	52		mg/kg	SW846 6010D
Arsenic		4.1	2.1		mg/kg	SW846 6010D
Barium		48.3	21		mg/kg	SW846 6010D
Beryllium		0.58	0.21		mg/kg	SW846 6010D
Chromium		10.3	1.0		mg/kg	SW846 6010D
Copper		5.2	2.6		mg/kg	SW846 6010D
Iron		14600	52		mg/kg	SW846 6010D
Lead		14.6	2.1		mg/kg	SW846 6010D
Magnesium		1320	520		mg/kg	SW846 6010D
Manganese		406	1.6		mg/kg	SW846 6010D
Mercury		0.11	0.029		mg/kg	SW846 7471B
Nickel		8.9	4.2		mg/kg	SW846 6010D
Vanadium		18.2	5.2		mg/kg	SW846 6010D
Zinc		31.1	5.2		mg/kg	SW846 6010D
Redox Potential Vs H2		405			mv	ASTM D1498-76M
pH [c]		3.73			su	SW846 9045D
JD91339-11	**GRID-7**					
Benzo(a)anthracene		0.0274 J	0.063	0.018	mg/kg	SW846 8270E
Benzo(b)fluoranthene [a]		0.0285 J	0.063	0.028	mg/kg	SW846 8270E
Butyl benzyl phthalate		0.0992 J	0.13	0.015	mg/kg	SW846 8270E
Benzaldehyde		0.0258 J	0.31	0.016	mg/kg	SW846 8270E

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Chrysene		0.0244 J	0.063	0.020	mg/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		0.105 J	0.13	0.015	mg/kg	SW846 8270E
Fluoranthene [a]		0.0442 J	0.063	0.028	mg/kg	SW846 8270E
Phenanthrene		0.0218 J	0.063	0.021	mg/kg	SW846 8270E
Pyrene		0.0380 J	0.063	0.020	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		7.18 J			mg/kg	
4,4'-DDD		0.00015 J	0.00040	0.000042	mg/kg	SW846 8081B
4,4'-DDE		0.00018 J	0.00040	0.000048	mg/kg	SW846 8081B
4,4'-DDT		0.00025 J	0.00040	0.000070	mg/kg	SW846 8081B
Aluminum		12800	54		mg/kg	SW846 6010D
Arsenic		4.0	2.1		mg/kg	SW846 6010D
Barium		48.4	21		mg/kg	SW846 6010D
Beryllium		0.63	0.21		mg/kg	SW846 6010D
Chromium		12.1	1.1		mg/kg	SW846 6010D
Copper		6.4	2.7		mg/kg	SW846 6010D
Iron		16100	54		mg/kg	SW846 6010D
Lead		18.1	2.1		mg/kg	SW846 6010D
Magnesium		1760	540		mg/kg	SW846 6010D
Manganese		458	1.6		mg/kg	SW846 6010D
Mercury		0.089	0.030		mg/kg	SW846 7471B
Nickel		11.4	4.3		mg/kg	SW846 6010D
Vanadium		19.8	5.4		mg/kg	SW846 6010D
Zinc		38.0	5.4		mg/kg	SW846 6010D
Chromium, Hexavalent		0.49	0.44		mg/kg	SW846 3060A/7196A
Redox Potential Vs H2		415			mv	ASTM D1498-76M
pH [h]		3.53			su	SW846 9045D
JD91339-12	**FB-3**					
Redox Potential Vs H2		415			mv	ASTM D1498-76
pH [j]		7.58			su	SM4500H+ B-11
JD91339-13	**DUP-1**					
Benzo(a)anthracene		0.0350 J	0.036	0.010	mg/kg	SW846 8270E
Benzo(a)pyrene		0.0451	0.036	0.016	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.0568	0.036	0.016	mg/kg	SW846 8270E
Benzo(g,h,i)perylene		0.0397	0.036	0.018	mg/kg	SW846 8270E
Benzo(k)fluoranthene		0.0209 J	0.036	0.017	mg/kg	SW846 8270E
Carbazole		0.0058 J	0.072	0.0052	mg/kg	SW846 8270E
Chrysene		0.0472	0.036	0.011	mg/kg	SW846 8270E
Di-n-butyl phthalate		0.0109 J	0.072	0.0059	mg/kg	SW846 8270E
Fluoranthene		0.104	0.036	0.016	mg/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene [a]		0.0372	0.036	0.017	mg/kg	SW846 8270E
Phenanthrene		0.0516	0.036	0.012	mg/kg	SW846 8270E

Summary of Hits

Job Number: JD91339
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/27/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Pyrene		0.0772	0.036	0.011	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		10.46 J			mg/kg	
alpha-Chlordane [b]		0.00025 J	0.00040	0.000055	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.00025 J	0.00040	0.000055	mg/kg	SW846 8081B
Dieldrin		0.00027 J	0.00040	0.000065	mg/kg	SW846 8081B
4,4'-DDE [b]		0.00065	0.00040	0.000049	mg/kg	SW846 8081B
4,4'-DDT [k]		0.0018	0.00040	0.000071	mg/kg	SW846 8081B
Heptachlor epoxide [b]		0.00015 J	0.00040	0.000073	mg/kg	SW846 8081B
Aluminum		10600	55		mg/kg	SW846 6010D
Arsenic		7.6	2.2		mg/kg	SW846 6010D
Barium		26.1	22		mg/kg	SW846 6010D
Beryllium		0.45	0.22		mg/kg	SW846 6010D
Chromium		12.1	1.1		mg/kg	SW846 6010D
Copper		12.0	2.8		mg/kg	SW846 6010D
Iron		17400	55		mg/kg	SW846 6010D
Lead		44.0	2.2		mg/kg	SW846 6010D
Magnesium		1530	550		mg/kg	SW846 6010D
Manganese		173	1.7		mg/kg	SW846 6010D
Mercury		0.13	0.034		mg/kg	SW846 7471B
Nickel		8.5	4.4		mg/kg	SW846 6010D
Vanadium		22.5	5.5		mg/kg	SW846 6010D
Zinc		28.1	5.5		mg/kg	SW846 6010D
Redox Potential Vs H2		443			mv	ASTM D1498-76M
pH [g]		3.02			su	SW846 9045D
JD91339-14	**DUP-2**					
Benzo(a)anthracene		0.0136 J	0.035	0.0099	mg/kg	SW846 8270E
Benzo(b)fluoranthene		0.0167 J	0.035	0.015	mg/kg	SW846 8270E
Benzaldehyde		0.0188 J	0.17	0.0087	mg/kg	SW846 8270E
Chrysene		0.0119 J	0.035	0.011	mg/kg	SW846 8270E
Di-n-butyl phthalate		0.0082 J	0.070	0.0057	mg/kg	SW846 8270E
Fluoranthene		0.0232 J	0.035	0.016	mg/kg	SW846 8270E
Pyrene		0.0210 J	0.035	0.011	mg/kg	SW846 8270E
Total TIC, Semi-Volatile		3.86 J			mg/kg	
alpha-Chlordane [b]		0.000072 J	0.00041	0.000056	mg/kg	SW846 8081B
Chlordane (alpha and gamma)		0.000072 J	0.00041	0.000056	mg/kg	SW846 8081B
4,4'-DDE [b]		0.00011 J	0.00041	0.000049	mg/kg	SW846 8081B
4,4'-DDT		0.00042	0.00041	0.000072	mg/kg	SW846 8081B
Aluminum		14000	48		mg/kg	SW846 6010D
Arsenic		5.3	1.9		mg/kg	SW846 6010D
Barium		47.9	19		mg/kg	SW846 6010D
Beryllium		0.67	0.19		mg/kg	SW846 6010D
Chromium		11.9	0.96		mg/kg	SW846 6010D
Cobalt		5.5	4.8		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD91339
Account: Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Collected: 06/27/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Copper		6.1	2.4		mg/kg	SW846 6010D
Iron		17100	48		mg/kg	SW846 6010D
Lead		19.1	1.9		mg/kg	SW846 6010D
Magnesium		1690	480		mg/kg	SW846 6010D
Manganese		447	1.4		mg/kg	SW846 6010D
Mercury		0.079	0.027		mg/kg	SW846 7471B
Nickel		12.7	3.8		mg/kg	SW846 6010D
Vanadium		20.7	4.8		mg/kg	SW846 6010D
Zinc		36.6	4.8		mg/kg	SW846 6010D
Redox Potential Vs H2		434			mv	ASTM D1498-76M
pH [l]		3.44			su	SW846 9045D

(a) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
(b) More than 40 % RPD for detected concentrations between the two GC columns.
(c) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C
(d) Reported from 2nd signal. Internal standard outside the limits on the 1st signal.
(e) Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
(f) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.9 Deg. C
(g) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.6 Deg. C
(h) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C
(i) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40 % RPD for detected concentrations between the two GC columns.
(j) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.74 Deg. C
(k) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
(l) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.4 Deg. C

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-3		
Lab Sample ID:	JD91339-1	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	89.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CT7975.D	1	07/03/24 13:12	KM	07/02/24 11:20	OP55800	ECT375
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.14	0.035	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.36	0.044	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.36	0.061	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.36	0.13	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.36	0.27	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.36	0.077	mg/kg	
95-48-7	2-Methylphenol	ND	0.14	0.046	mg/kg	
	3&4-Methylphenol	ND	0.14	0.059	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.36	0.047	mg/kg	
100-02-7	4-Nitrophenol	ND	0.72	0.19	mg/kg	
87-86-5	Pentachlorophenol	ND	0.29	0.067	mg/kg	
108-95-2	Phenol	ND	0.14	0.038	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol [a]	ND	0.36	0.048	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.36	0.054	mg/kg	
88-06-2	2,4,6-Trichlorophenol [a]	ND	0.36	0.043	mg/kg	
83-32-9	Acenaphthene	ND	0.072	0.025	mg/kg	
208-96-8	Acenaphthylene	ND	0.072	0.036	mg/kg	
98-86-2	Acetophenone	ND	0.36	0.015	mg/kg	
120-12-7	Anthracene	ND	0.072	0.044	mg/kg	
1912-24-9	Atrazine [a]	ND	0.14	0.031	mg/kg	
56-55-3	Benzo(a)anthracene	0.0571	0.072	0.020	mg/kg	J
50-32-8	Benzo(a)pyrene [b]	0.0701	0.072	0.033	mg/kg	J
205-99-2	Benzo(b)fluoranthene [b]	0.0855	0.072	0.032	mg/kg	
191-24-2	Benzo(g,h,i)perylene [b]	0.0610	0.072	0.036	mg/kg	J
207-08-9	Benzo(k)fluoranthene	ND	0.072	0.034	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.14	0.028	mg/kg	
85-68-7	Butyl benzyl phthalate	0.115	0.14	0.018	mg/kg	J
92-52-4	1,1'-Biphenyl	ND	0.14	0.0098	mg/kg	
100-52-7	Benzaldehyde	ND	0.36	0.018	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.14	0.017	mg/kg	
106-47-8	4-Chloroaniline	ND	0.36	0.026	mg/kg	
86-74-8	Carbazole	ND	0.14	0.010	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-3
Lab Sample ID: JD91339-1
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/27/24
Date Received: 06/28/24
Percent Solids: 89.8

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.14	0.028	mg/kg	
218-01-9	Chrysene	0.0695	0.072	0.023	mg/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	0.14	0.015	mg/kg	
111-44-4	bis(2-Chloroethyl)ether [a]	ND	0.14	0.031	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.14	0.026	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.14	0.023	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.072	0.022	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.072	0.036	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.14	0.060	mg/kg	
123-91-1	1,4-Dioxane	ND	0.072	0.047	mg/kg	
53-70-3	Dibenzo(a,h)anthracene [a]	ND	0.072	0.032	mg/kg	
132-64-9	Dibenzofuran	ND	0.14	0.029	mg/kg	
84-74-2	Di-n-butyl phthalate [a]	ND	0.14	0.012	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.14	0.018	mg/kg	
84-66-2	Diethyl phthalate	ND	0.14	0.015	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.14	0.013	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.123	0.14	0.017	mg/kg	J
206-44-0	Fluoranthene [b]	0.143	0.072	0.032	mg/kg	
86-73-7	Fluorene	ND	0.072	0.033	mg/kg	
118-74-1	Hexachlorobenzene [a]	ND	0.14	0.018	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.072	0.029	mg/kg	
77-47-4	Hexachlorocyclopentadiene [c]	ND	0.72	0.029	mg/kg	
67-72-1	Hexachloroethane	ND	0.36	0.036	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene [b]	0.0440	0.072	0.034	mg/kg	J
78-59-1	Isophorone	ND	0.14	0.015	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.072	0.016	mg/kg	
88-74-4	2-Nitroaniline	ND	0.36	0.017	mg/kg	
99-09-2	3-Nitroaniline	ND	0.36	0.018	mg/kg	
100-01-6	4-Nitroaniline	ND	0.36	0.019	mg/kg	
91-20-3	Naphthalene	ND	0.072	0.020	mg/kg	
98-95-3	Nitrobenzene	ND	0.14	0.028	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.14	0.021	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.36	0.026	mg/kg	
85-01-8	Phenanthrene	0.0744	0.072	0.024	mg/kg	
129-00-0	Pyrene	0.120	0.072	0.023	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.36	0.018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-3		
Lab Sample ID:	JD91339-1	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	89.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	51%		10-96%
118-79-6	2,4,6-Tribromophenol	64%		10-123%
4165-60-0	Nitrobenzene-d5	53%		10-109%
321-60-8	2-Fluorobiphenyl	59%		11-109%
1718-51-0	Terphenyl-d14	57%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
57-10-3	n-Hexadecanoic acid	7.36	.37	mg/kg	JN
	system artifact	8.86	.35	mg/kg	J
	system artifact	9.69	1.2	mg/kg	J
	Unknown acid	9.95	.36	mg/kg	J
	Unknown	10.48	2.4	mg/kg	J
	alkane	11.18	1.4	mg/kg	J
	Heneicosanol	11.22	1.9	mg/kg	J
	Unknown	11.75	1.4	mg/kg	J
	alkane	11.97	2	mg/kg	J
	unknown	12.05	.86	mg/kg	J
	unknown	12.19	.3	mg/kg	J
	Oxirane, hexadecyl	12.69	1.8	mg/kg	J
	unknown	12.94	2.1	mg/kg	J
	unknown	13.07	.76	mg/kg	J
	system artifact	13.11	.47	mg/kg	J
	gamma Sitosterol	13.35	1.5	mg/kg	J
	unknown	13.45	.32	mg/kg	J
	unknown	13.66	.32	mg/kg	J
	alkane	13.92	1.2	mg/kg	J
	Stigmast-en--one	14.20	.52	mg/kg	J
	unknown	14.44	.38	mg/kg	J
	Total TIC, Semi-Volatile		19.89	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
(c) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-3		
Lab Sample ID:	JD91339-1	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	89.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G9738724.D	1	07/02/24 19:35	MLC	07/01/24 10:23	OP55792	G4G4376
Run #2							

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00045	0.000087	mg/kg	
319-84-6	alpha-BHC	ND	0.00045	0.000051	mg/kg	
319-85-7	beta-BHC	ND	0.00045	0.000065	mg/kg	
319-86-8	delta-BHC	ND	0.00045	0.000067	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00045	0.000078	mg/kg	
5103-71-9	alpha-Chlordane [a]	0.00024	0.00045	0.000060	mg/kg	J
5103-74-2	gamma-Chlordane	ND	0.00045	0.000067	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.00030	0.00045	0.000060	mg/kg	J
60-57-1	Dieldrin	0.00017	0.00045	0.000071	mg/kg	J
72-54-8	4,4'-DDD	ND	0.00045	0.000047	mg/kg	
72-55-9	4,4'-DDE	0.0011	0.00045	0.000053	mg/kg	
50-29-3	4,4'-DDT	0.0017	0.00045	0.000078	mg/kg	
72-20-8	Endrin	ND	0.00045	0.000065	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00045	0.000053	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00045	0.00013	mg/kg	
959-98-8	Endosulfan-I	ND	0.00045	0.000060	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00045	0.000062	mg/kg	
76-44-8	Heptachlor	ND	0.00045	0.000058	mg/kg	
1024-57-3	Heptachlor epoxide [a]	0.00013	0.00045	0.000080	mg/kg	J
72-43-5	Methoxychlor	ND	0.00045	0.00018	mg/kg	
53494-70-5	Endrin ketone	ND	0.00045	0.000071	mg/kg	
8001-35-2	Toxaphene	ND	0.0056	0.0037	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		46-145%
877-09-8	Tetrachloro-m-xylene	96%		46-145%
2051-24-3	Decachlorobiphenyl	81%		29-163%
2051-24-3	Decachlorobiphenyl	116%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-3		
Lab Sample ID:	JD91339-1	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	89.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RM25028.D	1	07/01/24 18:35	MLC	07/01/24 10:23	OP55793	GRM560
Run #2							

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.022	0.0095	mg/kg	
11104-28-2	Aroclor 1221	ND	0.022	0.0075	mg/kg	
11141-16-5	Aroclor 1232	ND	0.022	0.018	mg/kg	
53469-21-9	Aroclor 1242	ND	0.022	0.013	mg/kg	
12672-29-6	Aroclor 1248	ND	0.022	0.0048	mg/kg	
11097-69-1	Aroclor 1254	ND	0.022	0.0024	mg/kg	
11096-82-5	Aroclor 1260	ND	0.022	0.0077	mg/kg	
11100-14-4	Aroclor 1268	ND	0.022	0.0022	mg/kg	
37324-23-5	Aroclor 1262	ND	0.022	0.0019	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		42-159%
877-09-8	Tetrachloro-m-xylene	89%		42-159%
2051-24-3	Decachlorobiphenyl	88%		18-154%
2051-24-3	Decachlorobiphenyl	114%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-3
Lab Sample ID: JD91339-1
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/27/24
Date Received: 06/28/24
Percent Solids: 89.8

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	10500	56	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Antimony	< 2.2	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Arsenic	6.6	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Barium	45.1	22	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Beryllium	0.43	0.22	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cadmium	< 0.56	0.56	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Calcium	< 560	560	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Chromium	10.9	1.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cobalt	< 5.6	5.6	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Copper	14.1	2.8	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Iron	14800	56	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Lead	53.0	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Magnesium	1310	560	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Manganese	204	1.7	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Mercury	0.19	0.034	mg/kg	1	07/01/24	07/03/24	MK	SW846 7471B [2]	SW846 7471B [4]
Nickel	7.4	4.5	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Silver	< 0.56	0.56	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Vanadium	21.0	5.6	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Zinc	33.7	5.6	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA56395
(2) Instrument QC Batch: MA56407
(3) Prep QC Batch: MP47600
(4) Prep QC Batch: MP47629

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-3		
Lab Sample ID:	JD91339-1	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
		Percent Solids:	89.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.43	0.43	mg/kg	1	07/05/24 16:21	RI	SW846 3060A/7196A
Cyanide	0.68	0.26	mg/kg	1	07/01/24 21:06	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	426		mv	1	07/02/24 18:08	DB	ASTM D1498-76M
Solids, Percent	89.8		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	3.30		su	1	07/02/24 18:40	DB	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-4		
Lab Sample ID:	JD91339-2	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	93.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CT7982.D	1	07/03/24 15:25	KM	07/02/24 11:20	OP55800	ECT375
Run #2							

	Initial Weight	Final Volume
Run #1	16.8 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.13	0.031	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.32	0.039	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.32	0.054	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.32	0.11	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.32	0.24	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.32	0.068	mg/kg	
95-48-7	2-Methylphenol	ND	0.13	0.041	mg/kg	
	3&4-Methylphenol	ND	0.13	0.052	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.32	0.042	mg/kg	
100-02-7	4-Nitrophenol	ND	0.64	0.17	mg/kg	
87-86-5	Pentachlorophenol	ND	0.25	0.060	mg/kg	
108-95-2	Phenol	ND	0.13	0.033	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol [a]	ND	0.32	0.042	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.32	0.048	mg/kg	
88-06-2	2,4,6-Trichlorophenol [a]	ND	0.32	0.038	mg/kg	
83-32-9	Acenaphthene	0.0234	0.064	0.022	mg/kg	J
208-96-8	Acenaphthylene	0.179	0.064	0.032	mg/kg	
98-86-2	Acetophenone	ND	0.32	0.014	mg/kg	
120-12-7	Anthracene	0.143	0.064	0.039	mg/kg	
1912-24-9	Atrazine [a]	ND	0.13	0.027	mg/kg	
56-55-3	Benzo(a)anthracene	0.477	0.064	0.018	mg/kg	
50-32-8	Benzo(a)pyrene [b]	0.642	0.064	0.029	mg/kg	
205-99-2	Benzo(b)fluoranthene [b]	0.684	0.064	0.028	mg/kg	
191-24-2	Benzo(g,h,i)perylene [b]	0.527	0.064	0.032	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.182	0.064	0.030	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.13	0.025	mg/kg	
85-68-7	Butyl benzyl phthalate	0.113	0.13	0.016	mg/kg	J
92-52-4	1,1'-Biphenyl	ND	0.13	0.0087	mg/kg	
100-52-7	Benzaldehyde	ND	0.32	0.016	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.13	0.015	mg/kg	
106-47-8	4-Chloroaniline	ND	0.32	0.023	mg/kg	
86-74-8	Carbazole	0.0244	0.13	0.0092	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-4		
Lab Sample ID:	JD91339-2	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	93.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.13	0.025	mg/kg	
218-01-9	Chrysene	0.485	0.064	0.020	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.13	0.014	mg/kg	
111-44-4	bis(2-Chloroethyl)ether [a]	ND	0.13	0.027	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.13	0.023	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.13	0.021	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.064	0.020	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.064	0.032	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.13	0.053	mg/kg	
123-91-1	1,4-Dioxane	ND	0.064	0.042	mg/kg	
53-70-3	Dibenzo(a,h)anthracene [b]	0.0407	0.064	0.028	mg/kg	J
132-64-9	Dibenzofuran	ND	0.13	0.026	mg/kg	
84-74-2	Di-n-butyl phthalate [a]	ND	0.13	0.010	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.13	0.016	mg/kg	
84-66-2	Diethyl phthalate	ND	0.13	0.014	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.13	0.011	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.108	0.13	0.015	mg/kg	J
206-44-0	Fluoranthene [b]	0.877	0.064	0.028	mg/kg	
86-73-7	Fluorene	0.0335	0.064	0.029	mg/kg	J
118-74-1	Hexachlorobenzene [a]	ND	0.13	0.016	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.064	0.026	mg/kg	
77-47-4	Hexachlorocyclopentadiene [c]	ND	0.64	0.025	mg/kg	
67-72-1	Hexachloroethane	ND	0.32	0.032	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene [b]	0.406	0.064	0.030	mg/kg	
78-59-1	Isophorone	ND	0.13	0.014	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.064	0.014	mg/kg	
88-74-4	2-Nitroaniline	ND	0.32	0.015	mg/kg	
99-09-2	3-Nitroaniline	ND	0.32	0.016	mg/kg	
100-01-6	4-Nitroaniline	ND	0.32	0.017	mg/kg	
91-20-3	Naphthalene	ND	0.064	0.018	mg/kg	
98-95-3	Nitrobenzene	ND	0.13	0.025	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.13	0.018	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.32	0.023	mg/kg	
85-01-8	Phenanthrene	0.289	0.064	0.021	mg/kg	
129-00-0	Pyrene	0.872	0.064	0.020	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.32	0.016	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-4		
Lab Sample ID:	JD91339-2	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	93.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	40%		10-96%
118-79-6	2,4,6-Tribromophenol	54%		10-123%
4165-60-0	Nitrobenzene-d5	44%		10-109%
321-60-8	2-Fluorobiphenyl	49%		11-109%
1718-51-0	Terphenyl-d14	50%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Heneicosyl formate	10.47	.29	mg/kg	J
	unknown PAH Substances	11.31	.36	mg/kg	J
	Total TIC, Semi-Volatile		.65	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
(c) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-4		
Lab Sample ID:	JD91339-2	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	93.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G9738725.D	1	07/02/24 19:58	MLC	07/01/24 10:23	OP55792	G4G4376
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00040	0.000079	mg/kg	
319-84-6	alpha-BHC [a]	0.000050	0.00040	0.000046	mg/kg	J
319-85-7	beta-BHC [b]	ND	0.00040	0.000059	mg/kg	
319-86-8	delta-BHC	ND	0.00040	0.000061	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00040	0.000071	mg/kg	
5103-71-9	alpha-Chlordane [c]	0.0079	0.00040	0.000055	mg/kg	
5103-74-2	gamma-Chlordane [d]	0.0050	0.00040	0.000061	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0086	0.00040	0.000055	mg/kg	
60-57-1	Dieldrin [d]	0.00035	0.00040	0.000065	mg/kg	J
72-54-8	4,4'-DDD [d]	0.0018	0.00040	0.000042	mg/kg	
72-55-9	4,4'-DDE [c]	0.0036	0.00040	0.000048	mg/kg	
50-29-3	4,4'-DDT [c]	0.0038	0.00040	0.000071	mg/kg	
72-20-8	Endrin	ND	0.00040	0.000059	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00040	0.000048	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00040	0.00012	mg/kg	
959-98-8	Endosulfan-I	0.00056	0.00040	0.000055	mg/kg	
33213-65-9	Endosulfan-II [d]	0.0016	0.00040	0.000057	mg/kg	
76-44-8	Heptachlor	ND	0.00040	0.000053	mg/kg	
1024-57-3	Heptachlor epoxide [c]	0.0022	0.00040	0.000073	mg/kg	
72-43-5	Methoxychlor [d]	0.0059	0.00040	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00040	0.000065	mg/kg	
8001-35-2	Toxaphene	ND	0.0051	0.0033	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	43% [e]		46-145%
877-09-8	Tetrachloro-m-xylene	92%		46-145%
2051-24-3	Decachlorobiphenyl	46%		29-163%
2051-24-3	Decachlorobiphenyl	384% [e]		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-4		
Lab Sample ID:	JD91339-2	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	93.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

(c) Reported from 2nd signal. Internal standard outside the limits on the 1st signal.
(d) Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
(e) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-4		
Lab Sample ID:	JD91339-2	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	93.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RM25027.D	1	07/01/24 18:17	MLC	07/01/24 10:23	OP55793	GRM560
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.020	0.0086	mg/kg	
11104-28-2	Aroclor 1221	ND	0.020	0.0068	mg/kg	
11141-16-5	Aroclor 1232	ND	0.020	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.020	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.020	0.0044	mg/kg	
11097-69-1	Aroclor 1254	ND	0.020	0.0022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.020	0.0070	mg/kg	
11100-14-4	Aroclor 1268	ND	0.020	0.0020	mg/kg	
37324-23-5	Aroclor 1262	ND	0.020	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		42-159%
877-09-8	Tetrachloro-m-xylene	89%		42-159%
2051-24-3	Decachlorobiphenyl	85%		18-154%
2051-24-3	Decachlorobiphenyl	123%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-4
Lab Sample ID: JD91339-2
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/27/24
Date Received: 06/28/24
Percent Solids: 93.4

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	6060	54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Antimony	< 2.2	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Arsenic	2.8	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Barium	34.1	22	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Beryllium	0.36	0.22	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cadmium	< 0.54	0.54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Calcium	1510	540	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Chromium	9.9	1.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cobalt	< 5.4	5.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Copper	10.8	2.7	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Iron	11200	54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Lead	21.6	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Magnesium	1670	540	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Manganese	205	1.6	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Mercury	0.098	0.033	mg/kg	1	07/01/24	07/03/24	MK	SW846 7471B [2]	SW846 7471B [4]
Nickel	10.5	4.3	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Silver	< 0.54	0.54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Vanadium	15.7	5.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Zinc	32.8	5.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA56395
(2) Instrument QC Batch: MA56407
(3) Prep QC Batch: MP47600
(4) Prep QC Batch: MP47629

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-4		
Lab Sample ID:	JD91339-2	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
		Percent Solids:	93.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.44	0.44	mg/kg	1	07/05/24 16:21	RI	SW846 3060A/7196A
Cyanide	< 0.21	0.21	mg/kg	1	07/01/24 21:07	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	378		mv	1	07/02/24 18:13	DB	ASTM D1498-76M
Solids, Percent	93.4		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	6.77		su	1	07/02/24 18:43	DB	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-20		
Lab Sample ID:	JD91339-3	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.3
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CT7983.D	1	07/03/24 15:43	KM	07/02/24 11:20	OP55800	ECT375
Run #2	3E125168.D	10	07/05/24 15:24	KH	07/02/24 11:20	OP55800	E3E5819

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2	30.1 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.074	0.018	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.18	0.023	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.18	0.031	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.18	0.065	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.18	0.14	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.18	0.039	mg/kg	
95-48-7	2-Methylphenol	ND	0.074	0.024	mg/kg	
	3&4-Methylphenol	ND	0.074	0.030	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.18	0.024	mg/kg	
100-02-7	4-Nitrophenol	ND	0.37	0.098	mg/kg	
87-86-5	Pentachlorophenol	ND	0.15	0.035	mg/kg	
108-95-2	Phenol	ND	0.074	0.019	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol [a]	ND	0.18	0.024	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.18	0.028	mg/kg	
88-06-2	2,4,6-Trichlorophenol [a]	ND	0.18	0.022	mg/kg	
83-32-9	Acenaphthene	1.15	0.037	0.013	mg/kg	
208-96-8	Acenaphthylene	0.276	0.037	0.019	mg/kg	
98-86-2	Acetophenone	ND	0.18	0.0079	mg/kg	
120-12-7	Anthracene	2.49	0.037	0.023	mg/kg	
1912-24-9	Atrazine [a]	ND	0.074	0.016	mg/kg	
56-55-3	Benzo(a)anthracene	3.37	0.037	0.010	mg/kg	
50-32-8	Benzo(a)pyrene [b]	3.35	0.037	0.017	mg/kg	
205-99-2	Benzo(b)fluoranthene [b]	3.41	0.037	0.016	mg/kg	
191-24-2	Benzo(g,h,i)perylene [b]	2.31	0.037	0.018	mg/kg	
207-08-9	Benzo(k)fluoranthene	1.30	0.037	0.017	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.074	0.014	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.074	0.0090	mg/kg	
92-52-4	1,1'-Biphenyl	0.120	0.074	0.0050	mg/kg	
100-52-7	Benzaldehyde	ND	0.18	0.0091	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.074	0.0088	mg/kg	
106-47-8	4-Chloroaniline	ND	0.18	0.013	mg/kg	
86-74-8	Carbazole	0.699	0.074	0.0053	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-20		
Lab Sample ID:	JD91339-3	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.3
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.074	0.015	mg/kg	
218-01-9	Chrysene	2.96	0.037	0.012	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.074	0.0079	mg/kg	
111-44-4	bis(2-Chloroethyl)ether [a]	ND	0.074	0.016	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.074	0.013	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.074	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.037	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.037	0.018	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.074	0.031	mg/kg	
123-91-1	1,4-Dioxane	ND	0.037	0.024	mg/kg	
53-70-3	Dibenzo(a,h)anthracene [b]	0.188	0.037	0.016	mg/kg	
132-64-9	Dibenzofuran	0.810	0.074	0.015	mg/kg	
84-74-2	Di-n-butyl phthalate [a]	ND	0.074	0.0060	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.074	0.0092	mg/kg	
84-66-2	Diethyl phthalate	ND	0.074	0.0078	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.074	0.0065	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.074	0.0086	mg/kg	
206-44-0	Fluoranthene	11.5 [c]	0.37	0.16	mg/kg	
86-73-7	Fluorene	1.36	0.037	0.017	mg/kg	
118-74-1	Hexachlorobenzene [a]	ND	0.074	0.0093	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.037	0.015	mg/kg	
77-47-4	Hexachlorocyclopentadiene [d]	ND	0.37	0.015	mg/kg	
67-72-1	Hexachloroethane	ND	0.18	0.018	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene [b]	1.84	0.037	0.017	mg/kg	
78-59-1	Isophorone	ND	0.074	0.0079	mg/kg	
91-57-6	2-Methylnaphthalene	0.439	0.037	0.0083	mg/kg	
88-74-4	2-Nitroaniline	ND	0.18	0.0087	mg/kg	
99-09-2	3-Nitroaniline	ND	0.18	0.0092	mg/kg	
100-01-6	4-Nitroaniline	ND	0.18	0.0095	mg/kg	
91-20-3	Naphthalene	0.996	0.037	0.010	mg/kg	
98-95-3	Nitrobenzene	ND	0.074	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.074	0.011	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.18	0.013	mg/kg	
85-01-8	Phenanthrene	9.84 [c]	0.37	0.12	mg/kg	
129-00-0	Pyrene	9.48 [c]	0.37	0.12	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.18	0.0093	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%	39%	10-99%

ND = Not detected MDL = Method Detection Limit
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-20		
Lab Sample ID:	JD91339-3	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.3
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	37%	45%	10-96%
118-79-6	2,4,6-Tribromophenol	49%	52%	10-123%
4165-60-0	Nitrobenzene-d5	38%	50%	10-109%
321-60-8	2-Fluorobiphenyl	44%	52%	11-109%
1718-51-0	Terphenyl-d14	45%	53%	10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Biphenyl, methyl-	5.97	.27	mg/kg	J
	Naphtho[]thiophene	6.69	.35	mg/kg	J
	Phenanthrene, methyl-	7.32	.55	mg/kg	J
	Phenanthrene, methyl-	7.35	.88	mg/kg	J
	Phenanthrene, methyl-	7.40	.32	mg/kg	J
	Cyclopenta[def]phenanthrene	7.44	1.6	mg/kg	J
	Phenylnaphthalene	7.64	.48	mg/kg	J
	Phenanthrene, dimethyl	7.93	.27	mg/kg	J
	Cyclopenta(def)phenanthrenone	8.03	.28	mg/kg	J
	unknown	8.27	.47	mg/kg	J
	11H-Benzo[]fluorene	8.76	.35	mg/kg	J
	unknown	10.65	.32	mg/kg	J
	unknown	10.86	.28	mg/kg	J
	unknown PAH Substance	11.13	.59	mg/kg	J
	unknown	11.22	.6	mg/kg	J
	unknown PAH Substance	11.33	1.7	mg/kg	J
	unknown	11.61	.26	mg/kg	J
	unknown	11.75	.37	mg/kg	J
	unknown	11.98	.52	mg/kg	J
	unknown PAH Substance	12.64	.59	mg/kg	J
	unknown	12.70	.26	mg/kg	J
	unknown PAH Substance	12.97	.59	mg/kg	J
	unknown PAH Substance	13.02	.26	mg/kg	J
	Dibenzo[]carbazole	13.35	.51	mg/kg	J
	unknown PAH Substance	13.41	.86	mg/kg	J
	Total TIC, Semi-Volatile		13.53	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
(c) Result is from Run# 2
(d) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-20		
Lab Sample ID:	JD91339-3	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.3
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q

suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-20		
Lab Sample ID:	JD91339-3	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	90.3
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G9738726.D	1	07/02/24 20:20	MLC	07/01/24 10:23	OP55792	G4G4376
Run #2							

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00044	0.000086	mg/kg	
319-84-6	alpha-BHC	ND	0.00044	0.000051	mg/kg	
319-85-7	beta-BHC [a]	ND	0.00044	0.000064	mg/kg	
319-86-8	delta-BHC	ND	0.00044	0.000066	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00044	0.000078	mg/kg	
5103-71-9	alpha-Chlordane [b]	0.00061	0.00044	0.000060	mg/kg	
5103-74-2	gamma-Chlordane [b]	0.0012	0.00044	0.000066	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.00025	0.00044	0.000060	mg/kg	J
60-57-1	Dieldrin	ND	0.00044	0.000071	mg/kg	
72-54-8	4,4'-DDD [b]	0.0031	0.00044	0.000047	mg/kg	
72-55-9	4,4'-DDE [b]	0.0022	0.00044	0.000053	mg/kg	
50-29-3	4,4'-DDT [c]	0.0022	0.00044	0.000078	mg/kg	
72-20-8	Endrin [b]	0.00075	0.00044	0.000064	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00044	0.000053	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00044	0.00013	mg/kg	
959-98-8	Endosulfan-I	ND	0.00044	0.000060	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00044	0.000062	mg/kg	
76-44-8	Heptachlor	ND	0.00044	0.000058	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00044	0.000080	mg/kg	
72-43-5	Methoxychlor	ND	0.00044	0.00017	mg/kg	
53494-70-5	Endrin ketone	ND	0.00044	0.000071	mg/kg	
8001-35-2	Toxaphene	ND	0.0055	0.0037	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	18% [d]		46-145%
877-09-8	Tetrachloro-m-xylene	81%		46-145%
2051-24-3	Decachlorobiphenyl	29%		29-163%
2051-24-3	Decachlorobiphenyl	767% [d]		29-163%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for

ND = Not detected MDL = Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-20		
Lab Sample ID:	JD91339-3	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	90.3
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

detected concentrations between the two GC columns.
(c) Reported from 2nd signal. Internal standard outside the limits on the 1st signal.
(d) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-20		
Lab Sample ID:	JD91339-3	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	90.3
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RM25029.D	1	07/01/24 18:53	MLC	07/01/24 10:23	OP55793	GRM560
Run #2							

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.022	0.0094	mg/kg	
11104-28-2	Aroclor 1221	ND	0.022	0.0074	mg/kg	
11141-16-5	Aroclor 1232	ND	0.022	0.018	mg/kg	
53469-21-9	Aroclor 1242	ND	0.022	0.013	mg/kg	
12672-29-6	Aroclor 1248	ND	0.022	0.0048	mg/kg	
11097-69-1	Aroclor 1254	ND	0.022	0.0024	mg/kg	
11096-82-5	Aroclor 1260	ND	0.022	0.0076	mg/kg	
11100-14-4	Aroclor 1268	ND	0.022	0.0022	mg/kg	
37324-23-5	Aroclor 1262	ND	0.022	0.0018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		42-159%
877-09-8	Tetrachloro-m-xylene	96%		42-159%
2051-24-3	Decachlorobiphenyl	87%		18-154%
2051-24-3	Decachlorobiphenyl	109%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-20
Lab Sample ID: JD91339-3
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/27/24
Date Received: 06/28/24
Percent Solids: 90.3

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	7170	54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Antimony	< 2.2	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Arsenic	2.6	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Barium	30.5	22	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Beryllium	0.37	0.22	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cadmium	< 0.54	0.54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Calcium	709	540	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Chromium	8.3	1.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cobalt	< 5.4	5.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Copper	9.5	2.7	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Iron	10800	54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Lead	21.6	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Magnesium	1310	540	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Manganese	195	1.6	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Mercury	0.11	0.030	mg/kg	1	07/01/24	07/03/24	MK	SW846 7471B [2]	SW846 7471B [4]
Nickel	7.3	4.3	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Silver	< 0.54	0.54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Vanadium	14.9	5.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Zinc	28.6	5.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA56395
(2) Instrument QC Batch: MA56407
(3) Prep QC Batch: MP47600
(4) Prep QC Batch: MP47629

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-20		
Lab Sample ID:	JD91339-3	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
		Percent Solids:	90.3
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.45	0.45	mg/kg	1	07/05/24 16:21	RI	SW846 3060A/7196A
Cyanide	< 0.22	0.22	mg/kg	1	07/01/24 21:08	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	381		mv	1	07/02/24 18:14	DB	ASTM D1498-76M
Solids, Percent	90.3		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	5.45		su	1	07/02/24 18:44	DB	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.9 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-11		
Lab Sample ID:	JD91339-4	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8260D SW846 5035	**Percent Solids:**	96.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C202333.D	1	07/01/24 19:17	PS	06/29/24 05:30	n/a	V1C8736
Run #2							

	Initial Weight
Run #1	4.9 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	0.011	0.0044	mg/kg	
71-43-2	Benzene	ND	0.00053	0.00048	mg/kg	
74-97-5	Bromochloromethane	ND	0.0053	0.00059	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0021	0.00046	mg/kg	
75-25-2	Bromoform	ND	0.0053	0.0014	mg/kg	
74-83-9	Bromomethane	ND	0.0053	0.00081	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.011	0.0026	mg/kg	
75-15-0	Carbon disulfide	ND	0.0021	0.00057	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0021	0.00066	mg/kg	
108-90-7	Chlorobenzene	ND	0.0021	0.00049	mg/kg	
75-00-3	Chloroethane	ND	0.0053	0.00063	mg/kg	
67-66-3	Chloroform	ND	0.0021	0.0011	mg/kg	
74-87-3	Chloromethane	ND	0.0053	0.0021	mg/kg	
110-82-7	Cyclohexane	ND	0.0021	0.00070	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0021	0.00074	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0021	0.00059	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0011	0.00045	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0011	0.00058	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0011	0.00053	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0011	0.00052	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0053	0.00077	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0011	0.00053	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0011	0.00050	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0011	0.00070	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0011	0.00089	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0011	0.00065	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0021	0.00050	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0021	0.00050	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0021	0.00049	mg/kg	
100-41-4	Ethylbenzene	ND	0.0011	0.00048	mg/kg	
76-13-1	Freon 113	ND	0.0053	0.0028	mg/kg	
591-78-6	2-Hexanone	ND	0.0053	0.0023	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-11		
Lab Sample ID:	JD91339-4	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8260D SW846 5035	**Percent Solids:**	96.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	0.0021	0.0015	mg/kg	
79-20-9	Methyl Acetate	ND	0.0053	0.0015	mg/kg	
108-87-2	Methylcyclohexane	ND	0.0021	0.00093	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0011	0.00050	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0053	0.0024	mg/kg	
75-09-2	Methylene chloride	ND	0.0053	0.0028	mg/kg	
100-42-5	Styrene	ND	0.0021	0.00043	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0021	0.00064	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0021	0.00062	mg/kg	
108-88-3	Toluene	ND	0.0011	0.00056	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0053	0.0027	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0053	0.0027	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0021	0.00051	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0021	0.00059	mg/kg	
79-01-6	Trichloroethene	ND	0.0011	0.00081	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0053	0.00073	mg/kg	
75-01-4	Vinyl chloride [a]	ND	0.0021	0.00051	mg/kg	
	m,p-Xylene	ND	0.0011	0.00095	mg/kg	
95-47-6	o-Xylene	ND	0.0011	0.00049	mg/kg	
1330-20-7	Xylene (total)	ND	0.0011	0.00049	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		80-124%
17060-07-0	1,2-Dichloroethane-D4	102%		75-133%
2037-26-5	Toluene-D8	102%		79-125%
460-00-4	4-Bromofluorobenzene	103%		58-148%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	mg/kg	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-11		
Lab Sample ID:	JD91339-4	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	96.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CT7984.D	1	07/03/24 16:02	KM	07/02/24 11:20	OP55800	ECT375
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.14	0.034	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.34	0.042	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.34	0.058	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.34	0.12	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.34	0.26	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.34	0.073	mg/kg	
95-48-7	2-Methylphenol	ND	0.14	0.043	mg/kg	
	3&4-Methylphenol	ND	0.14	0.056	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.34	0.045	mg/kg	
100-02-7	4-Nitrophenol	ND	0.68	0.18	mg/kg	
87-86-5	Pentachlorophenol	ND	0.27	0.064	mg/kg	
108-95-2	Phenol	ND	0.14	0.036	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol [a]	ND	0.34	0.045	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.34	0.051	mg/kg	
88-06-2	2,4,6-Trichlorophenol [a]	ND	0.34	0.041	mg/kg	
83-32-9	Acenaphthene	0.0970	0.068	0.023	mg/kg	
208-96-8	Acenaphthylene	0.289	0.068	0.035	mg/kg	
98-86-2	Acetophenone	ND	0.34	0.015	mg/kg	
120-12-7	Anthracene	0.440	0.068	0.042	mg/kg	
1912-24-9	Atrazine [a]	ND	0.14	0.029	mg/kg	
56-55-3	Benzo(a)anthracene	0.887	0.068	0.019	mg/kg	
50-32-8	Benzo(a)pyrene [b]	0.997	0.068	0.031	mg/kg	
205-99-2	Benzo(b)fluoranthene [b]	0.947	0.068	0.030	mg/kg	
191-24-2	Benzo(g,h,i)perylene [b]	0.741	0.068	0.034	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.362	0.068	0.032	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.14	0.026	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.14	0.017	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.14	0.0093	mg/kg	
100-52-7	Benzaldehyde	ND	0.34	0.017	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.14	0.016	mg/kg	
106-47-8	4-Chloroaniline	ND	0.34	0.024	mg/kg	
86-74-8	Carbazole	0.126	0.14	0.0099	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-11		
Lab Sample ID:	JD91339-4	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	96.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.14	0.027	mg/kg	
218-01-9	Chrysene	0.909	0.068	0.021	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.14	0.015	mg/kg	
111-44-4	bis(2-Chloroethyl)ether [a]	ND	0.14	0.029	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.14	0.024	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.14	0.022	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.068	0.021	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.068	0.034	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.14	0.057	mg/kg	
123-91-1	1,4-Dioxane	ND	0.068	0.045	mg/kg	
53-70-3	Dibenzo(a,h)anthracene [b]	0.0584	0.068	0.030	mg/kg	J
132-64-9	Dibenzofuran	0.0452	0.14	0.028	mg/kg	J
84-74-2	Di-n-butyl phthalate [a]	ND	0.14	0.011	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.14	0.017	mg/kg	
84-66-2	Diethyl phthalate	ND	0.14	0.014	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.14	0.012	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.14	0.016	mg/kg	
206-44-0	Fluoranthene [b]	1.82	0.068	0.030	mg/kg	
86-73-7	Fluorene	0.147	0.068	0.031	mg/kg	
118-74-1	Hexachlorobenzene [a]	ND	0.14	0.017	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.068	0.027	mg/kg	
77-47-4	Hexachlorocyclopentadiene [c]	ND	0.68	0.027	mg/kg	
67-72-1	Hexachloroethane	ND	0.34	0.034	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene [b]	0.554	0.068	0.032	mg/kg	
78-59-1	Isophorone	ND	0.14	0.015	mg/kg	
91-57-6	2-Methylnaphthalene	0.0168	0.068	0.015	mg/kg	J
88-74-4	2-Nitroaniline	ND	0.34	0.016	mg/kg	
99-09-2	3-Nitroaniline	ND	0.34	0.017	mg/kg	
100-01-6	4-Nitroaniline	ND	0.34	0.018	mg/kg	
91-20-3	Naphthalene	0.0218	0.068	0.019	mg/kg	J
98-95-3	Nitrobenzene	ND	0.14	0.026	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.14	0.020	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.34	0.025	mg/kg	
85-01-8	Phenanthrene	1.13	0.068	0.023	mg/kg	
129-00-0	Pyrene	1.62	0.068	0.022	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.34	0.017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		10-99%

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-11		
Lab Sample ID:	JD91339-4	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	96.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	54%		10-96%
118-79-6	2,4,6-Tribromophenol	72%		10-123%
4165-60-0	Nitrobenzene-d5	57%		10-109%
321-60-8	2-Fluorobiphenyl	63%		11-109%
1718-51-0	Terphenyl-d14	67%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
57-10-3	n-Hexadecanoic acid	7.36	.35	mg/kg	JN
	-Cyclopenta[def]phenanthrene	7.43	.54	mg/kg	J
	Fluoranthene, methyl-	8.76	.37	mg/kg	J
	Dibenzopyrene	9.44	.94	mg/kg	J
	Dibenzopyrene	10.64	.56	mg/kg	J
	Dibenzopyrene	11.22	.86	mg/kg	J
	unknown PAH sunstance	11.32	.78	mg/kg	J
	Total TIC, Semi-Volatile		4.4	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
(c) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-11		
Lab Sample ID:	JD91339-4	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	96.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G9738727.D	1	07/02/24 20:43	MLC	07/01/24 10:23	OP55792	G4G4376
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00040	0.000078	mg/kg	
319-84-6	alpha-BHC	ND	0.00040	0.000046	mg/kg	
319-85-7	beta-BHC [a]	ND	0.00040	0.000058	mg/kg	
319-86-8	delta-BHC	ND	0.00040	0.000060	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00040	0.000070	mg/kg	
5103-71-9	alpha-Chlordane [b]	0.0012	0.00040	0.000054	mg/kg	
5103-74-2	gamma-Chlordane [b]	0.0012	0.00040	0.000060	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0014	0.00040	0.000054	mg/kg	
60-57-1	Dieldrin [b]	0.00041	0.00040	0.000064	mg/kg	
72-54-8	4,4'-DDD [b]	0.0019	0.00040	0.000042	mg/kg	
72-55-9	4,4'-DDE [c]	0.0016	0.00040	0.000048	mg/kg	
50-29-3	4,4'-DDT [b]	0.0032	0.00040	0.000070	mg/kg	
72-20-8	Endrin	ND	0.00040	0.000058	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00040	0.000048	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00040	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00040	0.000054	mg/kg	
33213-65-9	Endosulfan-II [b]	0.0019	0.00040	0.000056	mg/kg	
76-44-8	Heptachlor	ND	0.00040	0.000052	mg/kg	
1024-57-3	Heptachlor epoxide [b]	0.00030	0.00040	0.000072	mg/kg	J
72-43-5	Methoxychlor	ND	0.00040	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00040	0.000064	mg/kg	
8001-35-2	Toxaphene	ND	0.0050	0.0033	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	37% [d]		46-145%
877-09-8	Tetrachloro-m-xylene	79%		46-145%
2051-24-3	Decachlorobiphenyl	59%		29-163%
2051-24-3	Decachlorobiphenyl	399% [d]		29-163%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-11		
Lab Sample ID:	JD91339-4	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	96.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

detected concentrations between the two GC columns.
(c) Reported from 2nd signal. Internal standard outside the limits on the 1st signal.
(d) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-11		
Lab Sample ID:	JD91339-4	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	96.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RM25030.D	1	07/01/24 19:10	MLC	07/01/24 10:23	OP55793	GRM560
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.020	0.0085	mg/kg	
11104-28-2	Aroclor 1221	ND	0.020	0.0067	mg/kg	
11141-16-5	Aroclor 1232	ND	0.020	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.020	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.020	0.0043	mg/kg	
11097-69-1	Aroclor 1254	ND	0.020	0.0022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.020	0.0069	mg/kg	
11100-14-4	Aroclor 1268	ND	0.020	0.0020	mg/kg	
37324-23-5	Aroclor 1262	ND	0.020	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		42-159%
877-09-8	Tetrachloro-m-xylene	92%		42-159%
2051-24-3	Decachlorobiphenyl	101%		18-154%
2051-24-3	Decachlorobiphenyl	117%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-11
Lab Sample ID: JD91339-4
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/27/24
Date Received: 06/28/24
Percent Solids: 96.1

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	4060	54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Antimony	< 2.2	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Arsenic	< 2.2	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Barium	40.8	22	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Beryllium	0.25	0.22	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cadmium	0.66	0.54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Calcium	1150	540	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Chromium	7.0	1.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cobalt	< 5.4	5.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Copper	10.7	2.7	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Iron	9430	54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Lead	10.7	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Magnesium	1570	540	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Manganese	295	1.6	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Mercury	0.076	0.028	mg/kg	1	07/01/24	07/03/24	MK	SW846 7471B [2]	SW846 7471B [4]
Nickel	6.4	4.3	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Silver	< 0.54	0.54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Vanadium	11.2	5.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Zinc	19.8	5.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA56395
(2) Instrument QC Batch: MA56407
(3) Prep QC Batch: MP47600
(4) Prep QC Batch: MP47629

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-11		
Lab Sample ID:	JD91339-4	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
		Percent Solids:	96.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.42	0.42	mg/kg	1	07/05/24 16:21	RI	SW846 3060A/7196A
Cyanide	< 0.23	0.23	mg/kg	1	07/01/24 21:09	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	373		mv	1	07/02/24 18:16	DB	ASTM D1498-76M
Solids, Percent	96.1		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	7.09		su	1	07/02/24 18:46	DB	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.6 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-10A		
Lab Sample ID:	JD91339-5	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	83.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CT7985.D	1	07/03/24 16:21	KM	07/02/24 11:20	OP55800	ECT375
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.078	0.019	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.19	0.024	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.19	0.033	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.19	0.069	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.19	0.15	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.19	0.042	mg/kg	
95-48-7	2-Methylphenol	ND	0.078	0.025	mg/kg	
	3&4-Methylphenol	ND	0.078	0.032	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.19	0.026	mg/kg	
100-02-7	4-Nitrophenol	ND	0.39	0.10	mg/kg	
87-86-5	Pentachlorophenol	ND	0.16	0.037	mg/kg	
108-95-2	Phenol	ND	0.078	0.020	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol [a]	ND	0.19	0.026	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.19	0.029	mg/kg	
88-06-2	2,4,6-Trichlorophenol [a]	ND	0.19	0.023	mg/kg	
83-32-9	Acenaphthene	ND	0.039	0.013	mg/kg	
208-96-8	Acenaphthylene	0.0384	0.039	0.020	mg/kg	J
98-86-2	Acetophenone	ND	0.19	0.0084	mg/kg	
120-12-7	Anthracene	0.0283	0.039	0.024	mg/kg	J
1912-24-9	Atrazine [a]	ND	0.078	0.017	mg/kg	
56-55-3	Benzo(a)anthracene	0.105	0.039	0.011	mg/kg	
50-32-8	Benzo(a)pyrene [b]	0.122	0.039	0.018	mg/kg	
205-99-2	Benzo(b)fluoranthene [b]	0.130	0.039	0.017	mg/kg	
191-24-2	Benzo(g,h,i)perylene [b]	0.0965	0.039	0.019	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0459	0.039	0.018	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.078	0.015	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.078	0.0095	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.078	0.0053	mg/kg	
100-52-7	Benzaldehyde	ND	0.19	0.0097	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.078	0.0093	mg/kg	
106-47-8	4-Chloroaniline	ND	0.19	0.014	mg/kg	
86-74-8	Carbazole	0.0095	0.078	0.0057	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-10A
Lab Sample ID: JD91339-5
Matrix: SO - Soil
Method: SW846 8270E SW846 3546
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/27/24
Date Received: 06/28/24
Percent Solids: 83.8

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.078	0.015	mg/kg	
218-01-9	Chrysene	0.115	0.039	0.012	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.078	0.0083	mg/kg	
111-44-4	bis(2-Chloroethyl)ether [a]	ND	0.078	0.017	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.078	0.014	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.078	0.013	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.039	0.012	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.039	0.020	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.078	0.033	mg/kg	
123-91-1	1,4-Dioxane	ND	0.039	0.026	mg/kg	
53-70-3	Dibenzo(a,h)anthracene [c]	ND	0.039	0.017	mg/kg	
132-64-9	Dibenzofuran	ND	0.078	0.016	mg/kg	
84-74-2	Di-n-butyl phthalate [a]	ND	0.078	0.0064	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.078	0.0097	mg/kg	
84-66-2	Diethyl phthalate	ND	0.078	0.0083	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.078	0.0069	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0710	0.078	0.0091	mg/kg	J
206-44-0	Fluoranthene [b]	0.197	0.039	0.017	mg/kg	
86-73-7	Fluorene	ND	0.039	0.018	mg/kg	
118-74-1	Hexachlorobenzene [a]	ND	0.078	0.0099	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.039	0.016	mg/kg	
77-47-4	Hexachlorocyclopentadiene [d]	ND	0.39	0.016	mg/kg	
67-72-1	Hexachloroethane	ND	0.19	0.019	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene [b]	0.0729	0.039	0.018	mg/kg	
78-59-1	Isophorone	ND	0.078	0.0083	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.039	0.0088	mg/kg	
88-74-4	2-Nitroaniline	ND	0.19	0.0092	mg/kg	
99-09-2	3-Nitroaniline	ND	0.19	0.0097	mg/kg	
100-01-6	4-Nitroaniline	ND	0.19	0.010	mg/kg	
91-20-3	Naphthalene	ND	0.039	0.011	mg/kg	
98-95-3	Nitrobenzene	ND	0.078	0.015	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.078	0.011	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.19	0.014	mg/kg	
85-01-8	Phenanthrene	0.0794	0.039	0.013	mg/kg	
129-00-0	Pyrene	0.195	0.039	0.012	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.19	0.0099	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-10A		
Lab Sample ID:	JD91339-5	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	83.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	44%		10-96%
118-79-6	2,4,6-Tribromophenol	55%		10-123%
4165-60-0	Nitrobenzene-d5	45%		10-109%
321-60-8	2-Fluorobiphenyl	51%		11-109%
1718-51-0	Terphenyl-d14	51%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	4.69	.19	mg/kg	J
	Hexadecenoic acid	7.32	.43	mg/kg	J
	Hexadecanoic acid	7.37	.82	mg/kg	J
	Octadecenoic acid	8.17	.4	mg/kg	J
57-11-4	Octadecanoic acid	8.27	.33	mg/kg	JN
	unknown	9.69	.32	mg/kg	J
	unknown	10.47	.49	mg/kg	J
	alkane	11.18	.25	mg/kg	J
	cycloalkane	11.22	.63	mg/kg	J
	Oxirane, hexadecyl	11.75	.17	mg/kg	J
	alkane	11.97	.29	mg/kg	J
	Heneicosanol	12.03	.26	mg/kg	J
124-25-4	Tetradecanal	12.69	.24	mg/kg	JN
	unknown	12.99	.41	mg/kg	J
	unknown	13.07	.17	mg/kg	J
83-47-6	.gamma.-Sitosterol	13.35	.75	mg/kg	JN
6538-02-9	Ergostanol	13.45	.24	mg/kg	JN
	Stigmast-en-one	14.21	.17	mg/kg	J
	Total TIC, Semi-Volatile		6.56	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
(c) Associated CCV outside of control limits high,sample was ND.
(d) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-10A		
Lab Sample ID:	JD91339-5	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	83.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G9738728.D	1	07/02/24 21:05	MLC	07/01/24 10:23	OP55792	G4G4376
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00046	0.000089	mg/kg	
319-84-6	alpha-BHC	ND	0.00046	0.000053	mg/kg	
319-85-7	beta-BHC [a]	ND	0.00046	0.000067	mg/kg	
319-86-8	delta-BHC	ND	0.00046	0.000069	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00046	0.000080	mg/kg	
5103-71-9	alpha-Chlordane [b]	0.00086	0.00046	0.000062	mg/kg	
5103-74-2	gamma-Chlordane [c]	0.00032	0.00046	0.000069	mg/kg	J
57-74-9	Chlordane (alpha and gamma)	0.00098	0.00046	0.000062	mg/kg	
60-57-1	Dieldrin	ND	0.00046	0.000073	mg/kg	
72-54-8	4,4'-DDD [c]	0.0023	0.00046	0.000048	mg/kg	
72-55-9	4,4'-DDE [c]	0.0105	0.00046	0.000055	mg/kg	
50-29-3	4,4'-DDT [c]	0.0051	0.00046	0.000080	mg/kg	
72-20-8	Endrin	ND	0.00046	0.000067	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00046	0.000055	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00046	0.00013	mg/kg	
959-98-8	Endosulfan-I	ND	0.00046	0.000062	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00046	0.000064	mg/kg	
76-44-8	Heptachlor	ND	0.00046	0.000060	mg/kg	
1024-57-3	Heptachlor epoxide [c]	0.00032	0.00046	0.000083	mg/kg	J
72-43-5	Methoxychlor	ND	0.00046	0.00018	mg/kg	
53494-70-5	Endrin ketone	ND	0.00046	0.000073	mg/kg	
8001-35-2	Toxaphene	ND	0.0057	0.0038	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	25% [d]		46-145%
877-09-8	Tetrachloro-m-xylene	90%		46-145%
2051-24-3	Decachlorobiphenyl	44%		29-163%
2051-24-3	Decachlorobiphenyl	171% [d]		29-163%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Reported from 2nd signal. Internal standard outside the limits on the 1st signal.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-10A		
Lab Sample ID:	JD91339-5	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	83.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

(c) Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
(d) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-10A		
Lab Sample ID:	JD91339-5	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	83.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RM25031.D	1	07/01/24 19:28	MLC	07/01/24 10:23	OP55793	GRM560
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.023	0.0098	mg/kg	
11104-28-2	Aroclor 1221	ND	0.023	0.0077	mg/kg	
11141-16-5	Aroclor 1232	ND	0.023	0.019	mg/kg	
53469-21-9	Aroclor 1242	ND	0.023	0.014	mg/kg	
12672-29-6	Aroclor 1248	ND	0.023	0.0050	mg/kg	
11097-69-1	Aroclor 1254	ND	0.023	0.0025	mg/kg	
11096-82-5	Aroclor 1260	ND	0.023	0.0079	mg/kg	
11100-14-4	Aroclor 1268	ND	0.023	0.0023	mg/kg	
37324-23-5	Aroclor 1262	0.0053	0.023	0.0019	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		42-159%
877-09-8	Tetrachloro-m-xylene	89%		42-159%
2051-24-3	Decachlorobiphenyl	90%		18-154%
2051-24-3	Decachlorobiphenyl	120%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-10A
Lab Sample ID: JD91339-5
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/27/24
Date Received: 06/28/24
Percent Solids: 83.8

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	10000	58	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Arsenic	6.3	2.3	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Barium	89.1	23	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Beryllium	0.57	0.23	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cadmium	< 0.58	0.58	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Calcium	1750	580	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Chromium	21.1	1.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cobalt	< 5.8	5.8	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Copper	18.1	2.9	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Iron	15000	58	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Lead	145	2.3	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Magnesium	1610	580	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Manganese	341	1.8	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Mercury	1.0	0.062	mg/kg	2	07/01/24	07/03/24	MK	SW846 7471B [2]	SW846 7471B [4]
Nickel	10.8	4.7	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Potassium	< 1200	1200	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Silver	< 0.58	0.58	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Vanadium	27.1	5.8	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Zinc	78.0	5.8	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA56395
(2) Instrument QC Batch: MA56407
(3) Prep QC Batch: MP47600
(4) Prep QC Batch: MP47629

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-10A		
Lab Sample ID:	JD91339-5	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
		Percent Solids:	83.8
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.49	0.49	mg/kg	1	07/05/24 16:21	RI	SW846 3060A/7196A
Cyanide	< 0.27	0.27	mg/kg	1	07/01/24 21:10	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	378		mv	1	07/02/24 18:17	DB	ASTM D1498-76M
Solids, Percent	83.8		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	5.94		su	1	07/02/24 18:49	DB	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.9 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-21		
Lab Sample ID:	JD91339-6	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8260D SW846 5035	**Percent Solids:**	91.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C202334.D	1	07/01/24 19:43	PS	06/29/24 05:30	n/a	V1C8736
Run #2							

	Initial Weight
Run #1	5.4 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	0.010	0.0042	mg/kg	
71-43-2	Benzene	ND	0.00051	0.00046	mg/kg	
74-97-5	Bromochloromethane	ND	0.0051	0.00057	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0020	0.00044	mg/kg	
75-25-2	Bromoform	ND	0.0051	0.0014	mg/kg	
74-83-9	Bromomethane	ND	0.0051	0.00078	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.010	0.0025	mg/kg	
75-15-0	Carbon disulfide	ND	0.0020	0.00054	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0020	0.00063	mg/kg	
108-90-7	Chlorobenzene	ND	0.0020	0.00047	mg/kg	
75-00-3	Chloroethane	ND	0.0051	0.00060	mg/kg	
67-66-3	Chloroform	ND	0.0020	0.0010	mg/kg	
74-87-3	Chloromethane	ND	0.0051	0.0020	mg/kg	
110-82-7	Cyclohexane	ND	0.0020	0.00067	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	0.00070	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0020	0.00057	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0010	0.00043	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0010	0.00055	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0010	0.00050	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0010	0.00050	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0051	0.00074	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00050	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00048	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0010	0.00067	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0010	0.00085	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0010	0.00062	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0020	0.00048	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	0.00048	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	0.00046	mg/kg	
100-41-4	Ethylbenzene	ND	0.0010	0.00046	mg/kg	
76-13-1	Freon 113	ND	0.0051	0.0027	mg/kg	
591-78-6	2-Hexanone	ND	0.0051	0.0022	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-21		
Lab Sample ID:	JD91339-6	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8260D SW846 5035	**Percent Solids:**	91.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	0.0020	0.0014	mg/kg	
79-20-9	Methyl Acetate	ND	0.0051	0.0014	mg/kg	
108-87-2	Methylcyclohexane	ND	0.0020	0.00089	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00048	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0051	0.0023	mg/kg	
75-09-2	Methylene chloride	ND	0.0051	0.0026	mg/kg	
100-42-5	Styrene	ND	0.0020	0.00041	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	0.00061	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0020	0.00059	mg/kg	
108-88-3	Toluene	ND	0.0010	0.00053	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0051	0.0025	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0051	0.0025	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0020	0.00049	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0020	0.00056	mg/kg	
79-01-6	Trichloroethene	ND	0.0010	0.00077	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0051	0.00069	mg/kg	
75-01-4	Vinyl chloride [a]	ND	0.0020	0.00049	mg/kg	
	m,p-Xylene	ND	0.0010	0.00091	mg/kg	
95-47-6	o-Xylene	ND	0.0010	0.00046	mg/kg	
1330-20-7	Xylene (total)	ND	0.0010	0.00046	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-124%
17060-07-0	1,2-Dichloroethane-D4	103%		75-133%
2037-26-5	Toluene-D8	105%		79-125%
460-00-4	4-Bromofluorobenzene	105%		58-148%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	mg/kg	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-21		
Lab Sample ID:	JD91339-6	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CT7986.D	1	07/03/24 16:40	KM	07/02/24 11:20	OP55800	ECT375
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.072	0.018	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.18	0.022	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.18	0.031	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.18	0.064	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.18	0.14	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.18	0.038	mg/kg	
95-48-7	2-Methylphenol	ND	0.072	0.023	mg/kg	
	3&4-Methylphenol	ND	0.072	0.030	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.18	0.024	mg/kg	
100-02-7	4-Nitrophenol	ND	0.36	0.096	mg/kg	
87-86-5	Pentachlorophenol	ND	0.14	0.034	mg/kg	
108-95-2	Phenol	ND	0.072	0.019	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol [a]	ND	0.18	0.024	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.18	0.027	mg/kg	
88-06-2	2,4,6-Trichlorophenol [a]	ND	0.18	0.021	mg/kg	
83-32-9	Acenaphthene	0.0404	0.036	0.012	mg/kg	
208-96-8	Acenaphthylene	0.196	0.036	0.018	mg/kg	
98-86-2	Acetophenone	ND	0.18	0.0077	mg/kg	
120-12-7	Anthracene	0.244	0.036	0.022	mg/kg	
1912-24-9	Atrazine [a]	ND	0.072	0.015	mg/kg	
56-55-3	Benzo(a)anthracene	0.735	0.036	0.010	mg/kg	
50-32-8	Benzo(a)pyrene [b]	0.913	0.036	0.016	mg/kg	
205-99-2	Benzo(b)fluoranthene [b]	1.02	0.036	0.016	mg/kg	
191-24-2	Benzo(g,h,i)perylene [b]	0.713	0.036	0.018	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.319	0.036	0.017	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.072	0.014	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.072	0.0088	mg/kg	
92-52-4	1,1'-Biphenyl	0.0069	0.072	0.0049	mg/kg	J
100-52-7	Benzaldehyde	ND	0.18	0.0089	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.072	0.0086	mg/kg	
106-47-8	4-Chloroaniline	ND	0.18	0.013	mg/kg	
86-74-8	Carbazole	0.0400	0.072	0.0052	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-21		
Lab Sample ID:	JD91339-6	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.072	0.014	mg/kg	
218-01-9	Chrysene	0.728	0.036	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.072	0.0077	mg/kg	
111-44-4	bis(2-Chloroethyl)ether [a]	ND	0.072	0.015	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.072	0.013	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.072	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.036	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.036	0.018	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.072	0.030	mg/kg	
123-91-1	1,4-Dioxane	ND	0.036	0.024	mg/kg	
53-70-3	Dibenzo(a,h)anthracene [b]	0.0573	0.036	0.016	mg/kg	
132-64-9	Dibenzofuran	ND	0.072	0.015	mg/kg	
84-74-2	Di-n-butyl phthalate [a]	ND	0.072	0.0059	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.072	0.0090	mg/kg	
84-66-2	Diethyl phthalate	ND	0.072	0.0077	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.072	0.0064	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0691	0.072	0.0084	mg/kg	J
206-44-0	Fluoranthene [b]	1.29	0.036	0.016	mg/kg	
86-73-7	Fluorene	0.0578	0.036	0.017	mg/kg	
118-74-1	Hexachlorobenzene [a]	ND	0.072	0.0091	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.036	0.014	mg/kg	
77-47-4	Hexachlorocyclopentadiene [c]	ND	0.36	0.014	mg/kg	
67-72-1	Hexachloroethane	ND	0.18	0.018	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene [b]	0.539	0.036	0.017	mg/kg	
78-59-1	Isophorone	ND	0.072	0.0077	mg/kg	
91-57-6	2-Methylnaphthalene	0.0406	0.036	0.0081	mg/kg	
88-74-4	2-Nitroaniline	ND	0.18	0.0085	mg/kg	
99-09-2	3-Nitroaniline	ND	0.18	0.0090	mg/kg	
100-01-6	4-Nitroaniline	ND	0.18	0.0093	mg/kg	
91-20-3	Naphthalene	0.0388	0.036	0.010	mg/kg	
98-95-3	Nitrobenzene	ND	0.072	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.072	0.010	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.18	0.013	mg/kg	
85-01-8	Phenanthrene	0.499	0.036	0.012	mg/kg	
129-00-0	Pyrene	1.12	0.036	0.012	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.18	0.0091	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		10-99%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-21		
Lab Sample ID:	JD91339-6	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	42%		10-96%
118-79-6	2,4,6-Tribromophenol	55%		10-123%
4165-60-0	Nitrobenzene-d5	43%		10-109%
321-60-8	2-Fluorobiphenyl	48%		11-109%
1718-51-0	Terphenyl-d14	46%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
57-10-3	n-Hexadecanoic acid	7.37	.39	mg/kg	JN
	unknown	7.43	.35	mg/kg	J
	Phenanthrene, dimethyl-	7.93	.15	mg/kg	J
506-17-2	cis-Vaccenic acid	8.18	.15	mg/kg	JN
57-11-4	Octadecanoic acid	8.27	.26	mg/kg	JN
	Fluoranthene, methyl-	8.76	.22	mg/kg	J
	Pyrene, methyl-	8.88	.16	mg/kg	J
	Trifluoroacetoxy hexadecane	10.47	.24	mg/kg	J
	unknown	10.64	.17	mg/kg	J
	unknown PAH Substance	11.13	.18	mg/kg	J
	alkane	11.18	.25	mg/kg	J
	Heneicosanol	11.22	.19	mg/kg	J
	unknown PAH Substance	11.32	.6	mg/kg	J
	alkane	11.98	.37	mg/kg	J
	unknown	12.10	.25	mg/kg	J
	unknown	12.50	.33	mg/kg	J
215-58-7	Benzo[b]triphenylene	12.97	.17	mg/kg	JN
	Dibenzophenanthrene	13.02	.21	mg/kg	J
83-46-5	.beta.-Sitosterol	13.36	.37	mg/kg	JN
	Total TIC, Semi-Volatile		5.01	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
(c) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-21		
Lab Sample ID:	JD91339-6	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	91.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G9738729.D	1	07/02/24 21:28	MLC	07/01/24 10:23	OP55792	G4G4376
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00041	0.000079	mg/kg	
319-84-6	alpha-BHC	ND	0.00041	0.000047	mg/kg	
319-85-7	beta-BHC [a]	ND	0.00041	0.000059	mg/kg	
319-86-8	delta-BHC	ND	0.00041	0.000061	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00041	0.000071	mg/kg	
5103-71-9	alpha-Chlordane [b]	0.0051	0.00041	0.000055	mg/kg	
5103-74-2	gamma-Chlordane [c]	0.0041	0.00041	0.000061	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.0069	0.00041	0.000055	mg/kg	
60-57-1	Dieldrin [c]	0.0012	0.00041	0.000065	mg/kg	
72-54-8	4,4'-DDD [c]	0.0019	0.00041	0.000043	mg/kg	
72-55-9	4,4'-DDE [c]	0.0022	0.00041	0.000049	mg/kg	
50-29-3	4,4'-DDT [b]	0.0024	0.00041	0.000071	mg/kg	
72-20-8	Endrin	ND	0.00041	0.000059	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00041	0.000049	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00041	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00041	0.000055	mg/kg	
33213-65-9	Endosulfan-II [c]	0.0014	0.00041	0.000057	mg/kg	
76-44-8	Heptachlor	ND	0.00041	0.000053	mg/kg	
1024-57-3	Heptachlor epoxide [b]	0.00065	0.00041	0.000073	mg/kg	
72-43-5	Methoxychlor [c]	0.0044	0.00041	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00041	0.000065	mg/kg	
8001-35-2	Toxaphene	ND	0.0051	0.0034	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	40% [d]		46-145%
877-09-8	Tetrachloro-m-xylene	78%		46-145%
2051-24-3	Decachlorobiphenyl	44%		29-163%
2051-24-3	Decachlorobiphenyl	283% [d]		29-163%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Reported from 2nd signal. Internal standard outside the limits on the 1st signal.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-21		
Lab Sample ID:	JD91339-6	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	91.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

(c) Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
(d) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-21		
Lab Sample ID:	JD91339-6	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	91.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RM25032.D	1	07/01/24 19:46	MLC	07/01/24 10:23	OP55793	GRM560
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.020	0.0086	mg/kg	
11104-28-2	Aroclor 1221	ND	0.020	0.0068	mg/kg	
11141-16-5	Aroclor 1232	ND	0.020	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.020	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.020	0.0044	mg/kg	
11097-69-1	Aroclor 1254	ND	0.020	0.0022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.020	0.0070	mg/kg	
11100-14-4	Aroclor 1268	ND	0.020	0.0021	mg/kg	
37324-23-5	Aroclor 1262	ND	0.020	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		42-159%
877-09-8	Tetrachloro-m-xylene	91%		42-159%
2051-24-3	Decachlorobiphenyl	85%		18-154%
2051-24-3	Decachlorobiphenyl	119%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-21		
Lab Sample ID:	JD91339-6	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
		Percent Solids:	91.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5610	52	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Antimony	< 2.1	2.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Arsenic	2.5	2.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Barium	31.0	21	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Beryllium	0.30	0.21	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cadmium	< 0.52	0.52	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Calcium	1700	520	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Chromium	8.5	1.0	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cobalt	< 5.2	5.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Copper	16.0	2.6	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Iron	10100	52	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Lead	24.4	2.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Magnesium	1790	520	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Manganese	209	1.6	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Mercury	0.10	0.031	mg/kg	1	07/01/24	07/03/24	MK	SW846 7471B [2]	SW846 7471B [4]
Nickel	7.9	4.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Potassium	< 1000	1000	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Silver	< 0.52	0.52	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Sodium	< 1000	1000	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Vanadium	15.6	5.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Zinc	33.3	5.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA56395
(2) Instrument QC Batch: MA56407
(3) Prep QC Batch: MP47600
(4) Prep QC Batch: MP47630

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-21		
Lab Sample ID:	JD91339-6	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
		Percent Solids:	91.2
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.44	0.44	mg/kg	1	07/05/24 16:21	RI	SW846 3060A/7196A
Cyanide	< 0.26	0.26	mg/kg	1	07/01/24 21:10	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	368		mv	1	07/02/24 18:19	DB	ASTM D1498-76M
Solids, Percent	91.2		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	6.71		su	1	07/02/24 18:54	DB	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-9		
Lab Sample ID:	JD91339-7	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	94.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CT7976.D	1	07/03/24 13:31	KM	07/02/24 11:20	OP55800	ECT375
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.13	0.033	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.33	0.041	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.33	0.057	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.33	0.12	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.33	0.25	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.33	0.072	mg/kg	
95-48-7	2-Methylphenol	ND	0.13	0.043	mg/kg	
	3&4-Methylphenol	ND	0.13	0.055	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.33	0.044	mg/kg	
100-02-7	4-Nitrophenol	ND	0.67	0.18	mg/kg	
87-86-5	Pentachlorophenol	ND	0.27	0.063	mg/kg	
108-95-2	Phenol	ND	0.13	0.035	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol [a]	ND	0.33	0.044	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.33	0.050	mg/kg	
88-06-2	2,4,6-Trichlorophenol [a]	ND	0.33	0.040	mg/kg	
83-32-9	Acenaphthene	ND	0.067	0.023	mg/kg	
208-96-8	Acenaphthylene	ND	0.067	0.034	mg/kg	
98-86-2	Acetophenone	ND	0.33	0.014	mg/kg	
120-12-7	Anthracene	ND	0.067	0.041	mg/kg	
1912-24-9	Atrazine [a]	ND	0.13	0.029	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.067	0.019	mg/kg	
50-32-8	Benzo(a)pyrene [a]	ND	0.067	0.030	mg/kg	
205-99-2	Benzo(b)fluoranthene [a]	ND	0.067	0.030	mg/kg	
191-24-2	Benzo(g,h,i)perylene [a]	ND	0.067	0.033	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.067	0.031	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.13	0.026	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.13	0.016	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.13	0.0092	mg/kg	
100-52-7	Benzaldehyde	ND	0.33	0.017	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.13	0.016	mg/kg	
106-47-8	4-Chloroaniline	ND	0.33	0.024	mg/kg	
86-74-8	Carbazole	ND	0.13	0.0097	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-9		
Lab Sample ID:	JD91339-7	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	94.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.13	0.026	mg/kg	
218-01-9	Chrysene	ND	0.067	0.021	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.13	0.014	mg/kg	
111-44-4	bis(2-Chloroethyl)ether [a]	ND	0.13	0.029	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.13	0.024	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.13	0.022	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.067	0.021	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.067	0.034	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.13	0.056	mg/kg	
123-91-1	1,4-Dioxane	ND	0.067	0.044	mg/kg	
53-70-3	Dibenzo(a,h)anthracene [a]	ND	0.067	0.030	mg/kg	
132-64-9	Dibenzofuran	ND	0.13	0.027	mg/kg	
84-74-2	Di-n-butyl phthalate [a]	ND	0.13	0.011	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.13	0.017	mg/kg	
84-66-2	Diethyl phthalate	ND	0.13	0.014	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.13	0.012	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.106	0.13	0.016	mg/kg	J
206-44-0	Fluoranthene [a]	ND	0.067	0.030	mg/kg	
86-73-7	Fluorene	ND	0.067	0.031	mg/kg	
118-74-1	Hexachlorobenzene [a]	ND	0.13	0.017	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.067	0.027	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.67	0.027	mg/kg	
67-72-1	Hexachloroethane	ND	0.33	0.033	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene [a]	ND	0.067	0.031	mg/kg	
78-59-1	Isophorone	ND	0.13	0.014	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.067	0.015	mg/kg	
88-74-4	2-Nitroaniline	ND	0.33	0.016	mg/kg	
99-09-2	3-Nitroaniline	ND	0.33	0.017	mg/kg	
100-01-6	4-Nitroaniline	ND	0.33	0.017	mg/kg	
91-20-3	Naphthalene	ND	0.067	0.019	mg/kg	
98-95-3	Nitrobenzene	ND	0.13	0.026	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.13	0.019	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.33	0.024	mg/kg	
85-01-8	Phenanthrene	0.0460	0.067	0.022	mg/kg	J
129-00-0	Pyrene	ND	0.067	0.021	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.33	0.017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-9		
Lab Sample ID:	JD91339-7	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	94.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	49%		10-96%
118-79-6	2,4,6-Tribromophenol	65%		10-123%
4165-60-0	Nitrobenzene-d5	51%		10-109%
321-60-8	2-Fluorobiphenyl	58%		11-109%
1718-51-0	Terphenyl-d14	59%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	cycloalkane	9.69	.39	mg/kg	J
	Heneicosanol	10.48	.68	mg/kg	J
	Behenic alcohol	11.22	.52	mg/kg	J
	unknown	12.94	1.1	mg/kg	J
	beta.-Sitosterol	13.35	.39	mg/kg	J
	Total TIC, Semi-Volatile		3.08	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-9		
Lab Sample ID:	JD91339-7	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	94.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G9738730.D	1	07/02/24 21:50	MLC	07/01/24 10:23	OP55792	G4G4376
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00041	0.000079	mg/kg	
319-84-6	alpha-BHC	ND	0.00041	0.000047	mg/kg	
319-85-7	beta-BHC	ND	0.00041	0.000059	mg/kg	
319-86-8	delta-BHC	ND	0.00041	0.000061	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00041	0.000071	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.00041	0.000055	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.00041	0.000061	mg/kg	
57-74-9	Chlordane (alpha and gamma)	ND	0.00041	0.000055	mg/kg	
60-57-1	Dieldrin	0.000089	0.00041	0.000065	mg/kg	J
72-54-8	4,4'-DDD	ND	0.00041	0.000043	mg/kg	
72-55-9	4,4'-DDE	0.00016	0.00041	0.000049	mg/kg	J
50-29-3	4,4'-DDT [a]	0.000073	0.00041	0.000071	mg/kg	J
72-20-8	Endrin	ND	0.00041	0.000059	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00041	0.000049	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00041	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00041	0.000055	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00041	0.000057	mg/kg	
76-44-8	Heptachlor	ND	0.00041	0.000053	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00041	0.000073	mg/kg	
72-43-5	Methoxychlor	ND	0.00041	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00041	0.000065	mg/kg	
8001-35-2	Toxaphene	ND	0.0051	0.0034	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		46-145%
877-09-8	Tetrachloro-m-xylene	98%		46-145%
2051-24-3	Decachlorobiphenyl	88%		29-163%
2051-24-3	Decachlorobiphenyl	124%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-9		
Lab Sample ID:	JD91339-7	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	94.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RM25033.D	1	07/01/24 20:04	MLC	07/01/24 10:23	OP55793	GRM560
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.020	0.0086	mg/kg	
11104-28-2	Aroclor 1221	ND	0.020	0.0068	mg/kg	
11141-16-5	Aroclor 1232	ND	0.020	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.020	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.020	0.0044	mg/kg	
11097-69-1	Aroclor 1254	ND	0.020	0.0022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.020	0.0070	mg/kg	
11100-14-4	Aroclor 1268	ND	0.020	0.0021	mg/kg	
37324-23-5	Aroclor 1262	ND	0.020	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		42-159%
877-09-8	Tetrachloro-m-xylene	82%		42-159%
2051-24-3	Decachlorobiphenyl	82%		18-154%
2051-24-3	Decachlorobiphenyl	103%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-9
Lab Sample ID: JD91339-7
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/27/24
Date Received: 06/28/24
Percent Solids: 94.6

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	10000	54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Antimony	< 2.2	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Arsenic	3.1	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Barium	28.6	22	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Beryllium	0.46	0.22	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cadmium	< 0.54	0.54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Calcium	< 540	540	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Chromium	9.3	1.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cobalt	< 5.4	5.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Copper	7.9	2.7	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Iron	13200	54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Lead	12.9	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Magnesium	1350	540	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Manganese	239	1.6	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Mercury	0.089	0.029	mg/kg	1	07/01/24	07/03/24	MK	SW846 7471B [2]	SW846 7471B [4]
Nickel	8.8	4.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Silver	< 0.54	0.54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Vanadium	16.0	5.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Zinc	23.8	5.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA56395
(2) Instrument QC Batch: MA56407
(3) Prep QC Batch: MP47600
(4) Prep QC Batch: MP47630

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-9		
Lab Sample ID:	JD91339-7	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
		Percent Solids:	94.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.43	0.43	mg/kg	1	07/05/24 16:13	RI	SW846 3060A/7196A
Cyanide	< 0.23	0.23	mg/kg	1	07/01/24 21:11	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	426		mv	1	07/02/24 18:23	DB	ASTM D1498-76M
Solids, Percent	94.6		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	3.72		su	1	07/02/24 18:55	DB	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-8A		
Lab Sample ID:	JD91339-8	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	75.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CT7977.D	1	07/03/24 13:50	KM	07/02/24 11:20	OP55800	ECT375
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.18	0.043	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.44	0.054	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.44	0.075	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.44	0.16	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.44	0.33	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.44	0.094	mg/kg	
95-48-7	2-Methylphenol	ND	0.18	0.056	mg/kg	
	3&4-Methylphenol	ND	0.18	0.072	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.44	0.058	mg/kg	
100-02-7	4-Nitrophenol	ND	0.88	0.23	mg/kg	
87-86-5	Pentachlorophenol	ND	0.35	0.082	mg/kg	
108-95-2	Phenol	ND	0.18	0.046	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol [a]	ND	0.44	0.058	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.44	0.066	mg/kg	
88-06-2	2,4,6-Trichlorophenol [a]	ND	0.44	0.052	mg/kg	
83-32-9	Acenaphthene	ND	0.088	0.030	mg/kg	
208-96-8	Acenaphthylene	ND	0.088	0.045	mg/kg	
98-86-2	Acetophenone	ND	0.44	0.019	mg/kg	
120-12-7	Anthracene	ND	0.088	0.054	mg/kg	
1912-24-9	Atrazine [a]	ND	0.18	0.037	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.088	0.025	mg/kg	
50-32-8	Benzo(a)pyrene [a]	ND	0.088	0.040	mg/kg	
205-99-2	Benzo(b)fluoranthene [a]	ND	0.088	0.039	mg/kg	
191-24-2	Benzo(g,h,i)perylene [a]	ND	0.088	0.044	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.088	0.041	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.18	0.034	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.18	0.021	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.18	0.012	mg/kg	
100-52-7	Benzaldehyde	0.129	0.44	0.022	mg/kg	J
91-58-7	2-Chloronaphthalene	ND	0.18	0.021	mg/kg	
106-47-8	4-Chloroaniline	ND	0.44	0.032	mg/kg	
86-74-8	Carbazole	ND	0.18	0.013	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-8A		
Lab Sample ID:	JD91339-8	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	75.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.18	0.035	mg/kg	
218-01-9	Chrysene	ND	0.088	0.028	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.18	0.019	mg/kg	
111-44-4	bis(2-Chloroethyl)ether [a]	ND	0.18	0.038	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.18	0.031	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.18	0.028	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.088	0.027	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.088	0.044	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.18	0.073	mg/kg	
123-91-1	1,4-Dioxane	ND	0.088	0.058	mg/kg	
53-70-3	Dibenzo(a,h)anthracene [a]	ND	0.088	0.039	mg/kg	
132-64-9	Dibenzofuran	ND	0.18	0.036	mg/kg	
84-74-2	Di-n-butyl phthalate [a]	ND	0.18	0.014	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.18	0.022	mg/kg	
84-66-2	Diethyl phthalate	ND	0.18	0.019	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.18	0.016	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.144	0.18	0.020	mg/kg	J
206-44-0	Fluoranthene [b]	0.0481	0.088	0.039	mg/kg	J
86-73-7	Fluorene	ND	0.088	0.040	mg/kg	
118-74-1	Hexachlorobenzene [a]	ND	0.18	0.022	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.088	0.035	mg/kg	
77-47-4	Hexachlorocyclopentadiene [c]	ND	0.88	0.035	mg/kg	
67-72-1	Hexachloroethane	ND	0.44	0.043	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene [a]	ND	0.088	0.041	mg/kg	
78-59-1	Isophorone	ND	0.18	0.019	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.088	0.020	mg/kg	
88-74-4	2-Nitroaniline	ND	0.44	0.021	mg/kg	
99-09-2	3-Nitroaniline	ND	0.44	0.022	mg/kg	
100-01-6	4-Nitroaniline	ND	0.44	0.023	mg/kg	
91-20-3	Naphthalene	ND	0.088	0.025	mg/kg	
98-95-3	Nitrobenzene	ND	0.18	0.034	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.18	0.025	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.44	0.032	mg/kg	
85-01-8	Phenanthrene	0.0297	0.088	0.029	mg/kg	J
129-00-0	Pyrene	0.0472	0.088	0.028	mg/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.44	0.022	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-8A		
Lab Sample ID:	JD91339-8	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	75.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	39%		10-96%
118-79-6	2,4,6-Tribromophenol	49%		10-123%
4165-60-0	Nitrobenzene-d5	40%		10-109%
321-60-8	2-Fluorobiphenyl	45%		11-109%
1718-51-0	Terphenyl-d14	47%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	4.69	.41	mg/kg	J
	cycloalkane	9.69	.56	mg/kg	J
	unknown acid	10.48	.62	mg/kg	J
	Octadecanal	10.98	.35	mg/kg	J
	Heptacosanol	11.22	.77	mg/kg	J
	alkane	11.97	.63	mg/kg	J
	Heneicosanol	12.04	.5	mg/kg	J
	Oxirane, heptadecyl	12.69	.35	mg/kg	J
	unknown	12.94	1.7	mg/kg	J
	.gamma.-Sitosterol	13.35	1.6	mg/kg	J
	unknown	13.93	.53	mg/kg	J
	Total TIC, Semi-Volatile		8.02	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
(c) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-8A		
Lab Sample ID:	JD91339-8	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	75.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G9738731.D	1	07/02/24 22:13	MLC	07/01/24 10:23	OP55792	G4G4376
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00052	0.00010	mg/kg	
319-84-6	alpha-BHC	ND	0.00052	0.000060	mg/kg	
319-85-7	beta-BHC	ND	0.00052	0.000075	mg/kg	
319-86-8	delta-BHC	ND	0.00052	0.000078	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00052	0.000091	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.00052	0.000070	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.00052	0.000078	mg/kg	
57-74-9	Chlordane (alpha and gamma)	ND	0.00052	0.000070	mg/kg	
60-57-1	Dieldrin	ND	0.00052	0.000083	mg/kg	
72-54-8	4,4'-DDD	0.000080	0.00052	0.000054	mg/kg	J
72-55-9	4,4'-DDE	0.00016	0.00052	0.000062	mg/kg	J
50-29-3	4,4'-DDT	0.00023	0.00052	0.000091	mg/kg	J
72-20-8	Endrin	ND	0.00052	0.000075	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00052	0.000062	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00052	0.00015	mg/kg	
959-98-8	Endosulfan-I	ND	0.00052	0.000070	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00052	0.000073	mg/kg	
76-44-8	Heptachlor	ND	0.00052	0.000067	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00052	0.000093	mg/kg	
72-43-5	Methoxychlor	ND	0.00052	0.00020	mg/kg	
53494-70-5	Endrin ketone	ND	0.00052	0.000083	mg/kg	
8001-35-2	Toxaphene	ND	0.0065	0.0043	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		46-145%
877-09-8	Tetrachloro-m-xylene	93%		46-145%
2051-24-3	Decachlorobiphenyl	74%		29-163%
2051-24-3	Decachlorobiphenyl	103%		29-163%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-8A		
Lab Sample ID:	JD91339-8	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	75.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RM25034.D	1	07/01/24 20:22	MLC	07/01/24 10:23	OP55793	GRM560
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.026	0.011	mg/kg	
11104-28-2	Aroclor 1221	ND	0.026	0.0087	mg/kg	
11141-16-5	Aroclor 1232	ND	0.026	0.022	mg/kg	
53469-21-9	Aroclor 1242	ND	0.026	0.016	mg/kg	
12672-29-6	Aroclor 1248	ND	0.026	0.0056	mg/kg	
11097-69-1	Aroclor 1254	ND	0.026	0.0028	mg/kg	
11096-82-5	Aroclor 1260	ND	0.026	0.0089	mg/kg	
11100-14-4	Aroclor 1268	ND	0.026	0.0026	mg/kg	
37324-23-5	Aroclor 1262	ND	0.026	0.0022	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		42-159%
877-09-8	Tetrachloro-m-xylene	90%		42-159%
2051-24-3	Decachlorobiphenyl	89%		18-154%
2051-24-3	Decachlorobiphenyl	103%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-8A
Lab Sample ID: JD91339-8
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/27/24
Date Received: 06/28/24
Percent Solids: 75.6

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	14300	65	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Antimony	< 2.6	2.6	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Arsenic	5.4	2.6	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Barium	50.5	26	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Beryllium	0.66	0.26	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cadmium	< 0.65	0.65	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Calcium	< 650	650	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Chromium	15.4	1.3	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cobalt	6.8	6.5	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Copper	10.2	3.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Iron	20300	65	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Lead	33.6	2.6	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Magnesium	2260	650	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Manganese	439	1.9	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Mercury	0.16	0.036	mg/kg	1	07/01/24	07/03/24	MK	SW846 7471B [2]	SW846 7471B [4]
Nickel	12.0	5.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Potassium	< 1300	1300	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Selenium	< 2.6	2.6	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Silver	< 0.65	0.65	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Sodium	< 1300	1300	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Thallium	< 1.3	1.3	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Vanadium	26.3	6.5	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Zinc	41.1	6.5	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA56395
(2) Instrument QC Batch: MA56407
(3) Prep QC Batch: MP47600
(4) Prep QC Batch: MP47630

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-8A		
Lab Sample ID:	JD91339-8	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
		Percent Solids:	75.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.52	0.52	mg/kg	1	07/05/24 16:21	RI	SW846 3060A/7196A
Cyanide	0.56	0.31	mg/kg	1	07/01/24 21:12	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	337		mv	1	07/02/24 18:37	DB	ASTM D1498-76M
Solids, Percent	75.6		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	4.24		su	1	07/02/24 19:07	DB	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-5		
Lab Sample ID:	JD91339-9	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	94.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CT7978.D	1	07/03/24 14:09	KM	07/02/24 11:20	OP55800	ECT375
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.14	0.034	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.35	0.043	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.35	0.059	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.35	0.12	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.35	0.26	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.35	0.074	mg/kg	
95-48-7	2-Methylphenol	ND	0.14	0.044	mg/kg	
	3&4-Methylphenol	ND	0.14	0.057	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.35	0.046	mg/kg	
100-02-7	4-Nitrophenol	ND	0.70	0.19	mg/kg	
87-86-5	Pentachlorophenol	ND	0.28	0.065	mg/kg	
108-95-2	Phenol	ND	0.14	0.036	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol [a]	ND	0.35	0.046	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.35	0.052	mg/kg	
88-06-2	2,4,6-Trichlorophenol [a]	ND	0.35	0.041	mg/kg	
83-32-9	Acenaphthene	ND	0.070	0.024	mg/kg	
208-96-8	Acenaphthylene	ND	0.070	0.035	mg/kg	
98-86-2	Acetophenone	ND	0.35	0.015	mg/kg	
120-12-7	Anthracene	ND	0.070	0.043	mg/kg	
1912-24-9	Atrazine [a]	ND	0.14	0.030	mg/kg	
56-55-3	Benzo(a)anthracene	0.0283	0.070	0.020	mg/kg	J
50-32-8	Benzo(a)pyrene [a]	ND	0.070	0.032	mg/kg	
205-99-2	Benzo(b)fluoranthene [b]	0.0352	0.070	0.031	mg/kg	J
191-24-2	Benzo(g,h,i)perylene [a]	ND	0.070	0.035	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.070	0.033	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.14	0.027	mg/kg	
85-68-7	Butyl benzyl phthalate	0.111	0.14	0.017	mg/kg	J
92-52-4	1,1'-Biphenyl	ND	0.14	0.0095	mg/kg	
100-52-7	Benzaldehyde	ND	0.35	0.017	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.14	0.017	mg/kg	
106-47-8	4-Chloroaniline	ND	0.35	0.025	mg/kg	
86-74-8	Carbazole	ND	0.14	0.010	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-5		
Lab Sample ID:	JD91339-9	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	94.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.14	0.027	mg/kg	
218-01-9	Chrysene	0.0252	0.070	0.022	mg/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	0.14	0.015	mg/kg	
111-44-4	bis(2-Chloroethyl)ether [a]	ND	0.14	0.030	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.14	0.025	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.14	0.023	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.070	0.022	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.070	0.035	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.14	0.058	mg/kg	
123-91-1	1,4-Dioxane	ND	0.070	0.046	mg/kg	
53-70-3	Dibenzo(a,h)anthracene [a]	ND	0.070	0.031	mg/kg	
132-64-9	Dibenzofuran	ND	0.14	0.028	mg/kg	
84-74-2	Di-n-butyl phthalate [a]	ND	0.14	0.011	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.14	0.017	mg/kg	
84-66-2	Diethyl phthalate	ND	0.14	0.015	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.14	0.012	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.115	0.14	0.016	mg/kg	J
206-44-0	Fluoranthene [b]	0.0464	0.070	0.031	mg/kg	J
86-73-7	Fluorene	ND	0.070	0.032	mg/kg	
118-74-1	Hexachlorobenzene [a]	ND	0.14	0.018	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.070	0.028	mg/kg	
77-47-4	Hexachlorocyclopentadiene [c]	ND	0.70	0.028	mg/kg	
67-72-1	Hexachloroethane	ND	0.35	0.034	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene [a]	ND	0.070	0.033	mg/kg	
78-59-1	Isophorone	ND	0.14	0.015	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.070	0.016	mg/kg	
88-74-4	2-Nitroaniline	ND	0.35	0.016	mg/kg	
99-09-2	3-Nitroaniline	ND	0.35	0.017	mg/kg	
100-01-6	4-Nitroaniline	ND	0.35	0.018	mg/kg	
91-20-3	Naphthalene	ND	0.070	0.020	mg/kg	
98-95-3	Nitrobenzene	ND	0.14	0.027	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.14	0.020	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.35	0.025	mg/kg	
85-01-8	Phenanthrene	0.0278	0.070	0.023	mg/kg	J
129-00-0	Pyrene	0.0457	0.070	0.022	mg/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.35	0.018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-5		
Lab Sample ID:	JD91339-9	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	94.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	42%		10-96%
118-79-6	2,4,6-Tribromophenol	54%		10-123%
4165-60-0	Nitrobenzene-d5	43%		10-109%
321-60-8	2-Fluorobiphenyl	48%		11-109%
1718-51-0	Terphenyl-d14	52%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown acid	9.69	.38	mg/kg	J
	Tetracosanol	10.47	.61	mg/kg	J
	alkane	11.18	.41	mg/kg	J
	Heneicosanol	11.22	.49	mg/kg	J
	Oxirane, hexadecyl	11.75	.34	mg/kg	J
646-31-1	Tetracosane	11.97	.54	mg/kg	JN
	Cyclotetracosane	12.03	.33	mg/kg	J
	unknown	12.69	.49	mg/kg	J
	alkane	12.95	.35	mg/kg	J
	.beta.-Sitosterol	13.35	.5	mg/kg	J
124-25-4	Tetradecanal	13.92	.33	mg/kg	JN
	alkane	14.27	.38	mg/kg	J
	Total TIC, Semi-Volatile		5.15	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
(c) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-5		
Lab Sample ID:	JD91339-9	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	94.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G9738732.D	1	07/02/24 22:35	MLC	07/01/24 10:23	OP55792	G4G4376
Run #2	8G57874.D	5	07/03/24 23:12	MLC	07/01/24 10:23	OP55792	G8G2531
Run #3	8G57875.D	20	07/03/24 23:34	MLC	07/01/24 10:23	OP55792	G8G2531

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2	5.0 g	10.0 ml
Run #3	5.0 g	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00042	0.000083	mg/kg	
319-84-6	alpha-BHC	ND	0.00042	0.000049	mg/kg	
319-85-7	beta-BHC	ND	0.00042	0.000061	mg/kg	
319-86-8	delta-BHC	ND	0.00042	0.000063	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00042	0.000074	mg/kg	
5103-71-9	alpha-Chlordane [a]	0.00036	0.00042	0.000057	mg/kg	J
5103-74-2	gamma-Chlordane [a]	0.00045	0.00042	0.000063	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.00082	0.00042	0.000057	mg/kg	
60-57-1	Dieldrin	0.00018	0.00042	0.000068	mg/kg	J
72-54-8	4,4'-DDD	0.0209	0.00042	0.000044	mg/kg	
72-55-9	4,4'-DDE	0.200 [b]	0.0085	0.0010	mg/kg	
50-29-3	4,4'-DDT	0.0878 [c]	0.0021	0.00037	mg/kg	
72-20-8	Endrin	ND	0.00042	0.000061	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00042	0.000051	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00042	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00042	0.000057	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00042	0.000059	mg/kg	
76-44-8	Heptachlor	ND	0.00042	0.000055	mg/kg	
1024-57-3	Heptachlor epoxide [a]	0.00057	0.00042	0.000076	mg/kg	
72-43-5	Methoxychlor [d]	0.0012	0.00042	0.00017	mg/kg	
53494-70-5	Endrin ketone	ND	0.00042	0.000068	mg/kg	
8001-35-2	Toxaphene	ND	0.0053	0.0035	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
877-09-8	Tetrachloro-m-xylene	79%	96%	112%	46-145%
877-09-8	Tetrachloro-m-xylene	99%	93%	114%	46-145%
2051-24-3	Decachlorobiphenyl	86%	80%	104%	29-163%
2051-24-3	Decachlorobiphenyl	106%	114%	128%	29-163%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-5		
Lab Sample ID:	JD91339-9	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	94.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Result is from Run# 3
(c) Result is from Run# 2
(d) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-5		
Lab Sample ID:	JD91339-9	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	94.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RM25035.D	1	07/01/24 20:40	MLC	07/01/24 10:23	OP55793	GRM560
Run #2							

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.021	0.0090	mg/kg	
11104-28-2	Aroclor 1221	ND	0.021	0.0071	mg/kg	
11141-16-5	Aroclor 1232	ND	0.021	0.018	mg/kg	
53469-21-9	Aroclor 1242	ND	0.021	0.013	mg/kg	
12672-29-6	Aroclor 1248	ND	0.021	0.0046	mg/kg	
11097-69-1	Aroclor 1254	ND	0.021	0.0023	mg/kg	
11096-82-5	Aroclor 1260	ND	0.021	0.0073	mg/kg	
11100-14-4	Aroclor 1268	ND	0.021	0.0021	mg/kg	
37324-23-5	Aroclor 1262	0.0055	0.021	0.0018	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		42-159%
877-09-8	Tetrachloro-m-xylene	90%		42-159%
2051-24-3	Decachlorobiphenyl	97%		18-154%
2051-24-3	Decachlorobiphenyl	111%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GRID-5
Lab Sample ID: JD91339-9
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/27/24
Date Received: 06/28/24
Percent Solids: 94.5

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	9140	54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Antimony	< 2.2	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Arsenic	4.7	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Barium	41.9	22	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Beryllium	0.43	0.22	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cadmium	< 0.54	0.54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Calcium	< 540	540	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Chromium	10.6	1.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cobalt	< 5.4	5.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Copper	15.1	2.7	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Iron	12800	54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Lead	48.1	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Magnesium	1490	540	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Manganese	302	1.6	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Mercury	0.18	0.034	mg/kg	1	07/01/24	07/03/24	MK	SW846 7471B [2]	SW846 7471B [4]
Nickel	8.9	4.3	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Silver	< 0.54	0.54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Vanadium	16.1	5.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Zinc	36.9	5.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA56395
(2) Instrument QC Batch: MA56407
(3) Prep QC Batch: MP47600
(4) Prep QC Batch: MP47630

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-5		
Lab Sample ID:	JD91339-9	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
		Percent Solids:	94.5
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.43	0.43	mg/kg	1	07/05/24 16:21	RI	SW846 3060A/7196A
Cyanide	< 0.23	0.23	mg/kg	1	07/01/24 21:15	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	353		mv	1	07/02/24 18:39	DB	ASTM D1498-76M
Solids, Percent	94.5		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	4.23		su	1	07/02/24 19:07	DB	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-6		
Lab Sample ID:	JD91339-10	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CT7980.D	1	07/03/24 14:47	KM	07/02/24 11:20	OP55800	ECT375
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.073	0.018	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.18	0.022	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.18	0.031	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.18	0.065	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.18	0.14	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.18	0.039	mg/kg	
95-48-7	2-Methylphenol	ND	0.073	0.023	mg/kg	
	3&4-Methylphenol	ND	0.073	0.030	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.18	0.024	mg/kg	
100-02-7	4-Nitrophenol	ND	0.37	0.098	mg/kg	
87-86-5	Pentachlorophenol	ND	0.15	0.034	mg/kg	
108-95-2	Phenol	ND	0.073	0.019	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol [a]	ND	0.18	0.024	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.18	0.027	mg/kg	
88-06-2	2,4,6-Trichlorophenol [a]	ND	0.18	0.022	mg/kg	
83-32-9	Acenaphthene	ND	0.037	0.013	mg/kg	
208-96-8	Acenaphthylene	ND	0.037	0.019	mg/kg	
98-86-2	Acetophenone	ND	0.18	0.0079	mg/kg	
120-12-7	Anthracene	ND	0.037	0.022	mg/kg	
1912-24-9	Atrazine [a]	ND	0.073	0.016	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.037	0.010	mg/kg	
50-32-8	Benzo(a)pyrene [a]	ND	0.037	0.017	mg/kg	
205-99-2	Benzo(b)fluoranthene [a]	ND	0.037	0.016	mg/kg	
191-24-2	Benzo(g,h,i)perylene [a]	ND	0.037	0.018	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.037	0.017	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.073	0.014	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.073	0.0089	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.073	0.0050	mg/kg	
100-52-7	Benzaldehyde	0.174	0.18	0.0091	mg/kg	J
91-58-7	2-Chloronaphthalene	ND	0.073	0.0087	mg/kg	
106-47-8	4-Chloroaniline	ND	0.18	0.013	mg/kg	
86-74-8	Carbazole	ND	0.073	0.0053	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-6		
Lab Sample ID:	JD91339-10	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.073	0.014	mg/kg	
218-01-9	Chrysene	ND	0.037	0.012	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.073	0.0078	mg/kg	
111-44-4	bis(2-Chloroethyl)ether [a]	ND	0.073	0.016	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.073	0.013	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.073	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.037	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.037	0.018	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.073	0.030	mg/kg	
123-91-1	1,4-Dioxane	ND	0.037	0.024	mg/kg	
53-70-3	Dibenzo(a,h)anthracene [a]	ND	0.037	0.016	mg/kg	
132-64-9	Dibenzofuran	ND	0.073	0.015	mg/kg	
84-74-2	Di-n-butyl phthalate [a]	ND	0.073	0.0060	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.073	0.0091	mg/kg	
84-66-2	Diethyl phthalate	ND	0.073	0.0078	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.073	0.0065	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.0586	0.073	0.0086	mg/kg	J
206-44-0	Fluoranthene [a]	ND	0.037	0.016	mg/kg	
86-73-7	Fluorene	ND	0.037	0.017	mg/kg	
118-74-1	Hexachlorobenzene [a]	ND	0.073	0.0092	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.037	0.015	mg/kg	
77-47-4	Hexachlorocyclopentadiene [b]	ND	0.37	0.015	mg/kg	
67-72-1	Hexachloroethane	ND	0.18	0.018	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene [a]	ND	0.037	0.017	mg/kg	
78-59-1	Isophorone	ND	0.073	0.0078	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.037	0.0083	mg/kg	
88-74-4	2-Nitroaniline	ND	0.18	0.0086	mg/kg	
99-09-2	3-Nitroaniline	ND	0.18	0.0091	mg/kg	
100-01-6	4-Nitroaniline	ND	0.18	0.0095	mg/kg	
91-20-3	Naphthalene	ND	0.037	0.010	mg/kg	
98-95-3	Nitrobenzene	ND	0.073	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.073	0.011	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.18	0.013	mg/kg	
85-01-8	Phenanthrene	ND	0.037	0.012	mg/kg	
129-00-0	Pyrene	ND	0.037	0.012	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.18	0.0093	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	28%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-6		
Lab Sample ID:	JD91339-10	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	29%		10-96%
118-79-6	2,4,6-Tribromophenol	35%		10-123%
4165-60-0	Nitrobenzene-d5	30%		10-109%
321-60-8	2-Fluorobiphenyl	33%		11-109%
1718-51-0	Terphenyl-d14	33%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	4.69	.32	mg/kg	J
	unknown	9.59	.21	mg/kg	J
295-48-7	Cyclopentadecane	9.69	.32	mg/kg	JN
	n-Tetracosanol	10.47	.44	mg/kg	J
	Oxirane, hexadecyl	10.98	.22	mg/kg	J
	alkane	11.03	.25	mg/kg	J
	alkane	11.18	.19	mg/kg	J
297-03-0	Cyclotetracosane	11.21	.29	mg/kg	JN
	Oxirane, hexadecyl	11.75	.18	mg/kg	J
	alkane	11.97	.32	mg/kg	J
297-03-0	Cyclotetracosane	12.03	.19	mg/kg	JN
	Oxirane, hexadecyl	12.69	.19	mg/kg	J
	unknown	12.94	.63	mg/kg	J
6222-03-3	Trifluoroacetoxy hexadecane	13.05	.15	mg/kg	JN
	unknown	13.23	.17	mg/kg	J
	.beta.-Sitosterol	13.34	.39	mg/kg	J
3143-97-3	2-Methyl-5-methoxytryptamine	13.93	.16	mg/kg	JN
	Total TIC, Semi-Volatile		4.62	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-6		
Lab Sample ID:	JD91339-10	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	90.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G9738733.D	1	07/02/24 22:58	MLC	07/01/24 10:23	OP55792	G4G4376
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00042	0.000083	mg/kg	
319-84-6	alpha-BHC	ND	0.00042	0.000049	mg/kg	
319-85-7	beta-BHC	ND	0.00042	0.000061	mg/kg	
319-86-8	delta-BHC	ND	0.00042	0.000063	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00042	0.000074	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.00042	0.000057	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.00042	0.000063	mg/kg	
57-74-9	Chlordane (alpha and gamma)	ND	0.00042	0.000057	mg/kg	
60-57-1	Dieldrin	ND	0.00042	0.000068	mg/kg	
72-54-8	4,4'-DDD	0.000082	0.00042	0.000044	mg/kg	J
72-55-9	4,4'-DDE	0.00031	0.00042	0.000051	mg/kg	J
50-29-3	4,4'-DDT	0.00016	0.00042	0.000074	mg/kg	J
72-20-8	Endrin	ND	0.00042	0.000061	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00042	0.000051	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00042	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00042	0.000057	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00042	0.000059	mg/kg	
76-44-8	Heptachlor	ND	0.00042	0.000055	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00042	0.000076	mg/kg	
72-43-5	Methoxychlor	ND	0.00042	0.00017	mg/kg	
53494-70-5	Endrin ketone	ND	0.00042	0.000068	mg/kg	
8001-35-2	Toxaphene	ND	0.0053	0.0035	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		46-145%
877-09-8	Tetrachloro-m-xylene	105%		46-145%
2051-24-3	Decachlorobiphenyl	86%		29-163%
2051-24-3	Decachlorobiphenyl	89%		29-163%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-6		
Lab Sample ID:	JD91339-10	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	90.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RM25036.D	1	07/01/24 20:58	MLC	07/01/24 10:23	OP55793	GRM560
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.021	0.0090	mg/kg	
11104-28-2	Aroclor 1221	ND	0.021	0.0071	mg/kg	
11141-16-5	Aroclor 1232	ND	0.021	0.018	mg/kg	
53469-21-9	Aroclor 1242	ND	0.021	0.013	mg/kg	
12672-29-6	Aroclor 1248	ND	0.021	0.0046	mg/kg	
11097-69-1	Aroclor 1254	ND	0.021	0.0023	mg/kg	
11096-82-5	Aroclor 1260	ND	0.021	0.0073	mg/kg	
11100-14-4	Aroclor 1268	ND	0.021	0.0021	mg/kg	
37324-23-5	Aroclor 1262	ND	0.021	0.0018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		42-159%
877-09-8	Tetrachloro-m-xylene	90%		42-159%
2051-24-3	Decachlorobiphenyl	92%		18-154%
2051-24-3	Decachlorobiphenyl	101%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-6		
Lab Sample ID:	JD91339-10	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
		Percent Solids:	90.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	12000	52	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Antimony	< 2.1	2.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Arsenic	4.1	2.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Barium	48.3	21	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Beryllium	0.58	0.21	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cadmium	< 0.52	0.52	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Calcium	< 520	520	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Chromium	10.3	1.0	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cobalt	< 5.2	5.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Copper	5.2	2.6	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Iron	14600	52	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Lead	14.6	2.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Magnesium	1320	520	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Manganese	406	1.6	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Mercury	0.11	0.029	mg/kg	1	07/01/24	07/03/24	MK	SW846 7471B [2]	SW846 7471B [4]
Nickel	8.9	4.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Potassium	< 1000	1000	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Silver	< 0.52	0.52	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Sodium	< 1000	1000	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Thallium	< 1.0	1.0	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Vanadium	18.2	5.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Zinc	31.1	5.2	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA56395
(2) Instrument QC Batch: MA56407
(3) Prep QC Batch: MP47600
(4) Prep QC Batch: MP47630

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-6		
Lab Sample ID:	JD91339-10	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
		Percent Solids:	90.9
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.44	0.44	mg/kg	1	07/05/24 16:21	RI	SW846 3060A/7196A
Cyanide	< 0.25	0.25	mg/kg	1	07/01/24 21:16	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	405		mv	1	07/02/24 18:46	DB	ASTM D1498-76M
Solids, Percent	90.9		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	3.73		su	1	07/02/24 19:11	DB	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.8 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-7		
Lab Sample ID:	JD91339-11	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	94.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CT7981.D	1	07/03/24 15:06	KM	07/02/24 11:20	OP55800	ECT375
Run #2							

	Initial Weight	Final Volume
Run #1	16.9 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.13	0.031	mg/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	0.31	0.038	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.31	0.053	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.31	0.11	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.31	0.24	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.31	0.067	mg/kg	
95-48-7	2-Methylphenol	ND	0.13	0.040	mg/kg	
	3&4-Methylphenol	ND	0.13	0.052	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.31	0.041	mg/kg	
100-02-7	4-Nitrophenol	ND	0.63	0.17	mg/kg	
87-86-5	Pentachlorophenol	ND	0.25	0.059	mg/kg	
108-95-2	Phenol	ND	0.13	0.033	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol [a]	ND	0.31	0.041	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.31	0.047	mg/kg	
88-06-2	2,4,6-Trichlorophenol [a]	ND	0.31	0.037	mg/kg	
83-32-9	Acenaphthene	ND	0.063	0.022	mg/kg	
208-96-8	Acenaphthylene	ND	0.063	0.032	mg/kg	
98-86-2	Acetophenone	ND	0.31	0.013	mg/kg	
120-12-7	Anthracene	ND	0.063	0.038	mg/kg	
1912-24-9	Atrazine [a]	ND	0.13	0.027	mg/kg	
56-55-3	Benzo(a)anthracene	0.0274	0.063	0.018	mg/kg	J
50-32-8	Benzo(a)pyrene [a]	ND	0.063	0.029	mg/kg	
205-99-2	Benzo(b)fluoranthene [b]	0.0285	0.063	0.028	mg/kg	J
191-24-2	Benzo(g,h,i)perylene [a]	ND	0.063	0.031	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.063	0.029	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.13	0.024	mg/kg	
85-68-7	Butyl benzyl phthalate	0.0992	0.13	0.015	mg/kg	J
92-52-4	1,1'-Biphenyl	ND	0.13	0.0086	mg/kg	
100-52-7	Benzaldehyde	0.0258	0.31	0.016	mg/kg	J
91-58-7	2-Chloronaphthalene	ND	0.13	0.015	mg/kg	
106-47-8	4-Chloroaniline	ND	0.31	0.023	mg/kg	
86-74-8	Carbazole	ND	0.13	0.0091	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-7		
Lab Sample ID:	JD91339-11	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	94.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.13	0.025	mg/kg	
218-01-9	Chrysene	0.0244	0.063	0.020	mg/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	0.13	0.013	mg/kg	
111-44-4	bis(2-Chloroethyl)ether [a]	ND	0.13	0.027	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.13	0.023	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.13	0.020	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.063	0.019	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.063	0.031	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.13	0.052	mg/kg	
123-91-1	1,4-Dioxane	ND	0.063	0.041	mg/kg	
53-70-3	Dibenzo(a,h)anthracene [a]	ND	0.063	0.028	mg/kg	
132-64-9	Dibenzofuran	ND	0.13	0.026	mg/kg	
84-74-2	Di-n-butyl phthalate [a]	ND	0.13	0.010	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.13	0.016	mg/kg	
84-66-2	Diethyl phthalate	ND	0.13	0.013	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.13	0.011	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	0.105	0.13	0.015	mg/kg	J
206-44-0	Fluoranthene [b]	0.0442	0.063	0.028	mg/kg	J
86-73-7	Fluorene	ND	0.063	0.029	mg/kg	
118-74-1	Hexachlorobenzene [a]	ND	0.13	0.016	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.063	0.025	mg/kg	
77-47-4	Hexachlorocyclopentadiene [c]	ND	0.63	0.025	mg/kg	
67-72-1	Hexachloroethane	ND	0.31	0.031	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene [a]	ND	0.063	0.029	mg/kg	
78-59-1	Isophorone	ND	0.13	0.013	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.063	0.014	mg/kg	
88-74-4	2-Nitroaniline	ND	0.31	0.015	mg/kg	
99-09-2	3-Nitroaniline	ND	0.31	0.016	mg/kg	
100-01-6	4-Nitroaniline	ND	0.31	0.016	mg/kg	
91-20-3	Naphthalene	ND	0.063	0.018	mg/kg	
98-95-3	Nitrobenzene	ND	0.13	0.024	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.13	0.018	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.31	0.023	mg/kg	
85-01-8	Phenanthrene	0.0218	0.063	0.021	mg/kg	J
129-00-0	Pyrene	0.0380	0.063	0.020	mg/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.31	0.016	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-7		
Lab Sample ID:	JD91339-11	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	94.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	63%		10-96%
118-79-6	2,4,6-Tribromophenol	79%		10-123%
4165-60-0	Nitrobenzene-d5	62%		10-109%
321-60-8	2-Fluorobiphenyl	69%		11-109%
1718-51-0	Terphenyl-d14	70%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	1-Nonadecene	9.69	.56	mg/kg	J
	Chloropropionic acid, octadecyl	10.47	1	mg/kg	J
	Eicosane	11.18	.32	mg/kg	J
	Heneicosanol	11.22	.56	mg/kg	J
	Oxirane, hexadecyl-	11.75	.55	mg/kg	J
	Tetracosane	11.97	.77	mg/kg	J
	n-Tetracosanol	12.03	.39	mg/kg	J
	Oxirane, hexadecyl	12.69	.67	mg/kg	J
	unknown	12.94	.9	mg/kg	J
	unknown	13.06	.27	mg/kg	J
	.beta.-Sitosterol	13.34	.58	mg/kg	J
	Oxirane, hexadecyl-	13.92	.61	mg/kg	J
	Total TIC, Semi-Volatile		7.18	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
(c) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-7		
Lab Sample ID:	JD91339-11	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	94.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G9738734.D	1	07/02/24 23:20	MLC	07/01/24 10:23	OP55792	G4G4376
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00040	0.000078	mg/kg	
319-84-6	alpha-BHC	ND	0.00040	0.000046	mg/kg	
319-85-7	beta-BHC	ND	0.00040	0.000058	mg/kg	
319-86-8	delta-BHC	ND	0.00040	0.000060	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00040	0.000070	mg/kg	
5103-71-9	alpha-Chlordane	ND	0.00040	0.000054	mg/kg	
5103-74-2	gamma-Chlordane	ND	0.00040	0.000060	mg/kg	
57-74-9	Chlordane (alpha and gamma)	ND	0.00040	0.000054	mg/kg	
60-57-1	Dieldrin	ND	0.00040	0.000064	mg/kg	
72-54-8	4,4'-DDD	0.00015	0.00040	0.000042	mg/kg	J
72-55-9	4,4'-DDE	0.00018	0.00040	0.000048	mg/kg	J
50-29-3	4,4'-DDT	0.00025	0.00040	0.000070	mg/kg	J
72-20-8	Endrin	ND	0.00040	0.000058	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00040	0.000048	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00040	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00040	0.000054	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00040	0.000056	mg/kg	
76-44-8	Heptachlor	ND	0.00040	0.000052	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00040	0.000072	mg/kg	
72-43-5	Methoxychlor	ND	0.00040	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00040	0.000064	mg/kg	
8001-35-2	Toxaphene	ND	0.0050	0.0033	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		46-145%
877-09-8	Tetrachloro-m-xylene	117%		46-145%
2051-24-3	Decachlorobiphenyl	96%		29-163%
2051-24-3	Decachlorobiphenyl	103%		29-163%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	GRID-7		
Lab Sample ID:	JD91339-11	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	94.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RM25037.D	1	07/01/24 21:16	MLC	07/01/24 10:23	OP55793	GRM560
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.020	0.0085	mg/kg	
11104-28-2	Aroclor 1221	ND	0.020	0.0067	mg/kg	
11141-16-5	Aroclor 1232	ND	0.020	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.020	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.020	0.0043	mg/kg	
11097-69-1	Aroclor 1254	ND	0.020	0.0022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.020	0.0069	mg/kg	
11100-14-4	Aroclor 1268	ND	0.020	0.0020	mg/kg	
37324-23-5	Aroclor 1262	ND	0.020	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		42-159%
877-09-8	Tetrachloro-m-xylene	89%		42-159%
2051-24-3	Decachlorobiphenyl	92%		18-154%
2051-24-3	Decachlorobiphenyl	101%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GRID-7		
Lab Sample ID:	JD91339-11	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
		Percent Solids:	94.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	12800	54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Antimony	< 2.1	2.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Arsenic	4.0	2.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Barium	48.4	21	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Beryllium	0.63	0.21	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cadmium	< 0.54	0.54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Calcium	< 540	540	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Chromium	12.1	1.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cobalt	< 5.4	5.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Copper	6.4	2.7	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Iron	16100	54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Lead	18.1	2.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Magnesium	1760	540	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Manganese	458	1.6	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Mercury	0.089	0.030	mg/kg	1	07/01/24	07/03/24	MK	SW846 7471B [2]	SW846 7471B [4]
Nickel	11.4	4.3	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Silver	< 0.54	0.54	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Vanadium	19.8	5.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]
Zinc	38.0	5.4	mg/kg	1	07/01/24	07/01/24	KP	SW846 6010D [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA56395
(2) Instrument QC Batch: MA56407
(3) Prep QC Batch: MP47600
(4) Prep QC Batch: MP47630

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GRID-7		
Lab Sample ID:	JD91339-11	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
		Percent Solids:	94.4
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	0.49	0.44	mg/kg	1	07/05/24 16:21	RI	SW846 3060A/7196A
Cyanide	< 0.21	0.21	mg/kg	1	07/01/24 21:17	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	415		mv	1	07/02/24 18:50	DB	ASTM D1498-76M
Solids, Percent	94.4		%	1	06/29/24 14:00	MK	SM2540 G 18TH ED MOD
pH [a]	3.53		su	1	07/02/24 19:13	DB	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.7 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	FB-3		
Lab Sample ID:	JD91339-12	**Date Sampled:**	06/27/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P160665.D	1	07/02/24 16:54	KM	07/01/24 16:00	OP55776	EP7514
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol [a]	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol [a]	ND	5.0	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol [a]	ND	2.0	0.88	ug/l	
88-75-5	2-Nitrophenol [a]	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	4.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone [a]	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine [a]	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate [a]	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline [a]	ND	5.0	0.34	ug/l	
86-74-8	Carbazole [a]	ND	1.0	0.23	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-3		
Lab Sample ID:	JD91339-12	**Date Sampled:**	06/27/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene [a]	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate [a]	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate [a]	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate [a]	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene [a]	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline [a]	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline [a]	ND	5.0	0.44	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine [a]	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		10-71%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-3		
Lab Sample ID:	JD91339-12	**Date Sampled:**	06/27/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	27%		10-58%
118-79-6	2,4,6-Tribromophenol	57%		22-144%
4165-60-0	Nitrobenzene-d5	65%		28-118%
321-60-8	2-Fluorobiphenyl	60%		34-116%
1718-51-0	Terphenyl-d14	38%		10-127%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.48	4.7	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FB-3		
Lab Sample ID:	JD91339-12	**Date Sampled:**	06/27/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G197592.D	1	07/02/24 06:49	CP	06/30/24 08:00	OP55806	G1G7072
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0050	0.0026	ug/l	
319-84-6	alpha-BHC	ND	0.0050	0.0026	ug/l	
319-85-7	beta-BHC	ND	0.0050	0.0040	ug/l	
319-86-8	delta-BHC	ND	0.0050	0.0033	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0050	0.0030	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0050	0.0025	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0050	0.0021	ug/l	
57-74-9	Chlordane (alpha and gamma)	ND	0.0050	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.0050	0.0038	ug/l	
72-54-8	4,4'-DDD	ND	0.0050	0.0029	ug/l	
72-55-9	4,4'-DDE	ND	0.0050	0.0025	ug/l	
50-29-3	4,4'-DDT	ND	0.0050	0.0034	ug/l	
72-20-8	Endrin	ND	0.0050	0.0030	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0050	0.0027	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0050	0.0034	ug/l	
53494-70-5	Endrin ketone	ND	0.0050	0.0031	ug/l	
959-98-8	Endosulfan-I	ND	0.0050	0.0026	ug/l	
33213-65-9	Endosulfan-II	ND	0.0050	0.0024	ug/l	
76-44-8	Heptachlor	ND	0.0050	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0050	0.0030	ug/l	
72-43-5	Methoxychlor	ND	0.010	0.0034	ug/l	
8001-35-2	Toxaphene	ND	0.13	0.082	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%		10-175%
877-09-8	Tetrachloro-m-xylene	101%		10-175%
2051-24-3	Decachlorobiphenyl	59%		10-128%
2051-24-3	Decachlorobiphenyl	58%		10-128%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FB-3		
Lab Sample ID:	JD91339-12	**Date Sampled:**	06/27/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/28/24
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G141842.D	1	07/01/24 18:04	MLC	06/30/24 08:00	OP55807	G3G5198
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016 [a]	ND	0.25	0.098	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	0.21	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	0.13	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	0.23	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	0.22	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	0.21	ug/l	
11096-82-5	Aroclor 1260 [a]	ND	0.25	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	0.087	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	0.23	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		10-169%
877-09-8	Tetrachloro-m-xylene	105%		10-169%
2051-24-3	Decachlorobiphenyl	54%		10-130%
2051-24-3	Decachlorobiphenyl	51%		10-130%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-3		
Lab Sample ID:	JD91339-12	**Date Sampled:**	06/27/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/28/24
		Percent Solids:	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Antimony	< 6.0	6.0	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Calcium	< 5000	5000	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Copper	< 10	10	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Iron	< 100	100	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Magnesium	< 5000	5000	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Manganese	< 15	15	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	07/01/24	07/02/24	SS	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 10	10	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Potassium	< 10000	10000	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Sodium	< 10000	10000	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Vanadium	< 50	50	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	07/01/24	07/01/24	KP	SW846 6010D [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA56391
(2) Instrument QC Batch: MA56395
(3) Prep QC Batch: MP47607
(4) Prep QC Batch: MP47621

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FB-3		
Lab Sample ID:	JD91339-12	**Date Sampled:**	06/27/24
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/28/24
		Percent Solids:	n/a
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent [a]	< 0.010	0.010	mg/l	1	07/03/24 12:26	RI	SW846 7196A
Cyanide	< 0.010	0.010	mg/l	1	07/02/24 18:27	JD	EPA 335.4/LACHAT
Redox Potential Vs H2	415		mv	1	07/02/24 17:12	DB	ASTM D1498-76
pH [b]	7.58		su	1	07/02/24 16:34	JOO	SM4500H+ B-11

(a) Analysis done out of holding time.
(b) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.74 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	JD91339-13	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E125105.D	1	07/03/24 14:17	AO	07/02/24 12:10	OP55822	E3E5817
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.072	0.018	mg/kg	
59-50-7	4-Chloro-3-methyl phenol [a]	ND	0.18	0.022	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.18	0.031	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.18	0.064	mg/kg	
51-28-5	2,4-Dinitrophenol [a]	ND	0.18	0.14	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.18	0.038	mg/kg	
95-48-7	2-Methylphenol	ND	0.072	0.023	mg/kg	
	3&4-Methylphenol	ND	0.072	0.030	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.18	0.024	mg/kg	
100-02-7	4-Nitrophenol [a]	ND	0.36	0.096	mg/kg	
87-86-5	Pentachlorophenol	ND	0.14	0.034	mg/kg	
108-95-2	Phenol	ND	0.072	0.019	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol [a]	ND	0.18	0.024	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.18	0.027	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.18	0.021	mg/kg	
83-32-9	Acenaphthene	ND	0.036	0.012	mg/kg	
208-96-8	Acenaphthylene	ND	0.036	0.018	mg/kg	
98-86-2	Acetophenone	ND	0.18	0.0077	mg/kg	
120-12-7	Anthracene	ND	0.036	0.022	mg/kg	
1912-24-9	Atrazine [a]	ND	0.072	0.015	mg/kg	
56-55-3	Benzo(a)anthracene	0.0350	0.036	0.010	mg/kg	J
50-32-8	Benzo(a)pyrene	0.0451	0.036	0.016	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.0568	0.036	0.016	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0397	0.036	0.018	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0209	0.036	0.017	mg/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	0.072	0.014	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.072	0.0088	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.072	0.0049	mg/kg	
100-52-7	Benzaldehyde	ND	0.18	0.0089	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.072	0.0085	mg/kg	
106-47-8	4-Chloroaniline	ND	0.18	0.013	mg/kg	
86-74-8	Carbazole	0.0058	0.072	0.0052	mg/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	JD91339-13	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.072	0.014	mg/kg	
218-01-9	Chrysene	0.0472	0.036	0.011	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.072	0.0077	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.072	0.015	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.072	0.013	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.072	0.012	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.036	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.036	0.018	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.072	0.030	mg/kg	
123-91-1	1,4-Dioxane	ND	0.036	0.024	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.036	0.016	mg/kg	
132-64-9	Dibenzofuran	ND	0.072	0.015	mg/kg	
84-74-2	Di-n-butyl phthalate	0.0109	0.072	0.0059	mg/kg	J
117-84-0	Di-n-octyl phthalate	ND	0.072	0.0089	mg/kg	
84-66-2	Diethyl phthalate	ND	0.072	0.0076	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.072	0.0064	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate [a]	ND	0.072	0.0084	mg/kg	
206-44-0	Fluoranthene	0.104	0.036	0.016	mg/kg	
86-73-7	Fluorene	ND	0.036	0.016	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.072	0.0091	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.036	0.014	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.36	0.014	mg/kg	
67-72-1	Hexachloroethane	ND	0.18	0.018	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene [b]	0.0372	0.036	0.017	mg/kg	
78-59-1	Isophorone	ND	0.072	0.0077	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.036	0.0081	mg/kg	
88-74-4	2-Nitroaniline [a]	ND	0.18	0.0085	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.18	0.0090	mg/kg	
100-01-6	4-Nitroaniline [a]	ND	0.18	0.0093	mg/kg	
91-20-3	Naphthalene	ND	0.036	0.010	mg/kg	
98-95-3	Nitrobenzene	ND	0.072	0.014	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine [a]	ND	0.072	0.010	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.18	0.013	mg/kg	
85-01-8	Phenanthrene	0.0516	0.036	0.012	mg/kg	
129-00-0	Pyrene	0.0772	0.036	0.011	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.18	0.0091	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	JD91339-13	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	91.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	42%		10-96%
118-79-6	2,4,6-Tribromophenol	42%		10-123%
4165-60-0	Nitrobenzene-d5	45%		10-109%
321-60-8	2-Fluorobiphenyl	42%		11-109%
1718-51-0	Terphenyl-d14	42%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown acid	14.74	.17	mg/kg	J
	unknown	15.43	.97	mg/kg	J
	unknown acid	15.76	.32	mg/kg	J
	unknown alcohol	16.10	.67	mg/kg	J
	alkane	16.38	1.3	mg/kg	J
	unknown acid	16.72	.15	mg/kg	J
	unknown alcohol	17.08	.9	mg/kg	J
	alkane	17.38	1.8	mg/kg	J
	unknown alcohol	17.44	.6	mg/kg	J
	unknown	17.50	.23	mg/kg	J
	unknown alcohol	18.29	.89	mg/kg	J
	unknown	18.45	.79	mg/kg	J
	Stigmasterol	18.52	.21	mg/kg	J
	unknown alcohol	18.76	.54	mg/kg	J
	Sitosterol	18.97	.92	mg/kg	J
	Total TIC, Semi-Volatile		10.46	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	JD91339-13	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	91.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G138928.D	1	07/02/24 17:59	TP	07/02/24 10:57	OP55825	G5G3662
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00040	0.000079	mg/kg	
319-84-6	alpha-BHC	ND	0.00040	0.000046	mg/kg	
319-85-7	beta-BHC	ND	0.00040	0.000059	mg/kg	
319-86-8	delta-BHC	ND	0.00040	0.000061	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00040	0.000071	mg/kg	
5103-71-9	alpha-Chlordane [a]	0.00025	0.00040	0.000055	mg/kg	J
5103-74-2	gamma-Chlordane	ND	0.00040	0.000061	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.00025	0.00040	0.000055	mg/kg	J
60-57-1	Dieldrin	0.00027	0.00040	0.000065	mg/kg	J
72-54-8	4,4'-DDD	ND	0.00040	0.000042	mg/kg	
72-55-9	4,4'-DDE [a]	0.00065	0.00040	0.000049	mg/kg	
50-29-3	4,4'-DDT [b]	0.0018	0.00040	0.000071	mg/kg	
72-20-8	Endrin	ND	0.00040	0.000059	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00040	0.000049	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00040	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00040	0.000055	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00040	0.000057	mg/kg	
76-44-8	Heptachlor	ND	0.00040	0.000053	mg/kg	
1024-57-3	Heptachlor epoxide [a]	0.00015	0.00040	0.000073	mg/kg	J
72-43-5	Methoxychlor	ND	0.00040	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00040	0.000065	mg/kg	
8001-35-2	Toxaphene	ND	0.0051	0.0033	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%		46-145%
877-09-8	Tetrachloro-m-xylene	99%		46-145%
2051-24-3	Decachlorobiphenyl	145%		29-163%
2051-24-3	Decachlorobiphenyl	90%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	JD91339-13	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	91.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q

being used for confirmation only.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	JD91339-13	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	91.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL18047.D	1	07/02/24 17:07	MLC	07/02/24 10:57	OP55826	GRL401
Run #2							

	Initial Weight	Final Volume
Run #1	5.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.020	0.0086	mg/kg	
11104-28-2	Aroclor 1221	ND	0.020	0.0068	mg/kg	
11141-16-5	Aroclor 1232	ND	0.020	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.020	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.020	0.0044	mg/kg	
11097-69-1	Aroclor 1254	ND	0.020	0.0022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.020	0.0070	mg/kg	
11100-14-4	Aroclor 1268	ND	0.020	0.0020	mg/kg	
37324-23-5	Aroclor 1262	ND	0.020	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		42-159%
877-09-8	Tetrachloro-m-xylene	97%		42-159%
2051-24-3	Decachlorobiphenyl	83%		18-154%
2051-24-3	Decachlorobiphenyl	98%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-1
Lab Sample ID: JD91339-13
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/27/24
Date Received: 06/28/24
Percent Solids: 91.6

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	10600	55	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Antimony	< 2.2	2.2	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Arsenic	7.6	2.2	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Barium	26.1	22	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Beryllium	0.45	0.22	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cadmium	< 0.55	0.55	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Calcium	< 550	550	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Chromium	12.1	1.1	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cobalt	< 5.5	5.5	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Copper	12.0	2.8	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Iron	17400	55	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Lead	44.0	2.2	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Magnesium	1530	550	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Manganese	173	1.7	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Mercury	0.13	0.034	mg/kg	1	07/02/24	07/03/24	MK	SW846 7471B [2]	SW846 7471B [4]
Nickel	8.5	4.4	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Potassium	< 1100	1100	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Silver	< 0.55	0.55	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Vanadium	22.5	5.5	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Zinc	28.1	5.5	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA56403
(2) Instrument QC Batch: MA56407
(3) Prep QC Batch: MP47605
(4) Prep QC Batch: MP47655

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	JD91339-13	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
		Percent Solids:	91.6
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.44	0.44	mg/kg	1	07/05/24 16:24	RI	SW846 3060A/7196A
Cyanide	< 0.26	0.26	mg/kg	1	07/02/24 18:39	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	443		mv	1	07/02/24 18:53	DB	ASTM D1498-76M
Solids, Percent	91.6		%	1	07/02/24 16:00	RI	SM2540 G 18TH ED MOD
pH [a]	3.02		su	1	07/02/24 19:18	DB	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.6 Deg. C

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	JD91339-14	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	95.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3E125106.D	1	07/03/24 14:43	AO	07/02/24 12:10	OP55822	E3E5817
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	0.070	0.017	mg/kg	
59-50-7	4-Chloro-3-methyl phenol [a]	ND	0.17	0.021	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.17	0.030	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.17	0.062	mg/kg	
51-28-5	2,4-Dinitrophenol [a]	ND	0.17	0.13	mg/kg	
534-52-1	4,6-Dinitro-o-cresol [a]	ND	0.17	0.037	mg/kg	
95-48-7	2-Methylphenol	ND	0.070	0.022	mg/kg	
	3&4-Methylphenol	ND	0.070	0.029	mg/kg	
88-75-5	2-Nitrophenol [a]	ND	0.17	0.023	mg/kg	
100-02-7	4-Nitrophenol [a]	ND	0.35	0.093	mg/kg	
87-86-5	Pentachlorophenol	ND	0.14	0.033	mg/kg	
108-95-2	Phenol	ND	0.070	0.018	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol [a]	ND	0.17	0.023	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.17	0.026	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.17	0.021	mg/kg	
83-32-9	Acenaphthene	ND	0.035	0.012	mg/kg	
208-96-8	Acenaphthylene	ND	0.035	0.018	mg/kg	
98-86-2	Acetophenone	ND	0.17	0.0075	mg/kg	
120-12-7	Anthracene	ND	0.035	0.021	mg/kg	
1912-24-9	Atrazine [a]	ND	0.070	0.015	mg/kg	
56-55-3	Benzo(a)anthracene	0.0136	0.035	0.0099	mg/kg	J
50-32-8	Benzo(a)pyrene	ND	0.035	0.016	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.0167	0.035	0.015	mg/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	0.035	0.017	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.035	0.016	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.070	0.013	mg/kg	
85-68-7	Butyl benzyl phthalate [a]	ND	0.070	0.0085	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.070	0.0048	mg/kg	
100-52-7	Benzaldehyde	0.0188	0.17	0.0087	mg/kg	J
91-58-7	2-Chloronaphthalene	ND	0.070	0.0083	mg/kg	
106-47-8	4-Chloroaniline	ND	0.17	0.013	mg/kg	
86-74-8	Carbazole	ND	0.070	0.0051	mg/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	JD91339-14	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	95.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	0.070	0.014	mg/kg	
218-01-9	Chrysene	0.0119	0.035	0.011	mg/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	0.070	0.0075	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.070	0.015	mg/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	0.070	0.013	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.070	0.011	mg/kg	
121-14-2	2,4-Dinitrotoluene [a]	ND	0.035	0.011	mg/kg	
606-20-2	2,6-Dinitrotoluene [a]	ND	0.035	0.018	mg/kg	
91-94-1	3,3'-Dichlorobenzidine [a]	ND	0.070	0.029	mg/kg	
123-91-1	1,4-Dioxane	ND	0.035	0.023	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.035	0.015	mg/kg	
132-64-9	Dibenzofuran	ND	0.070	0.014	mg/kg	
84-74-2	Di-n-butyl phthalate	0.0082	0.070	0.0057	mg/kg	J
117-84-0	Di-n-octyl phthalate	ND	0.070	0.0087	mg/kg	
84-66-2	Diethyl phthalate	ND	0.070	0.0074	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.070	0.0062	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate [a]	ND	0.070	0.0082	mg/kg	
206-44-0	Fluoranthene	0.0232	0.035	0.016	mg/kg	J
86-73-7	Fluorene	ND	0.035	0.016	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.070	0.0088	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.035	0.014	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.35	0.014	mg/kg	
67-72-1	Hexachloroethane	ND	0.17	0.017	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene [a]	ND	0.035	0.016	mg/kg	
78-59-1	Isophorone	ND	0.070	0.0075	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.035	0.0079	mg/kg	
88-74-4	2-Nitroaniline [a]	ND	0.17	0.0082	mg/kg	
99-09-2	3-Nitroaniline [a]	ND	0.17	0.0087	mg/kg	
100-01-6	4-Nitroaniline [a]	ND	0.17	0.0090	mg/kg	
91-20-3	Naphthalene	ND	0.035	0.0099	mg/kg	
98-95-3	Nitrobenzene	ND	0.070	0.013	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine [a]	ND	0.070	0.010	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.17	0.013	mg/kg	
85-01-8	Phenanthrene	ND	0.035	0.012	mg/kg	
129-00-0	Pyrene	0.0210	0.035	0.011	mg/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.17	0.0089	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	28%		10-99%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	JD91339-14	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8270E SW846 3546	**Percent Solids:**	95.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	31%		10-96%
118-79-6	2,4,6-Tribromophenol	36%		10-123%
4165-60-0	Nitrobenzene-d5	32%		10-109%
321-60-8	2-Fluorobiphenyl	34%		11-109%
1718-51-0	Terphenyl-d14	36%		10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
65-85-0	Benzoic acid	5.65	.55	mg/kg	JN
	unknown	6.70	.29	mg/kg	J
	unknown acid	12.33	.17	mg/kg	J
	unknown	13.92	.43	mg/kg	J
	unknown	15.43	.33	mg/kg	J
	unknown	15.54	.19	mg/kg	J
	unknown alcohol	16.10	.18	mg/kg	J
	alkane	16.38	.15	mg/kg	J
	unknown alcohol	17.07	.22	mg/kg	J
	alkane	17.37	.32	mg/kg	J
	alkene	17.43	.19	mg/kg	J
	unknown alcohol	18.28	.25	mg/kg	J
	unknown	18.45	.28	mg/kg	J
	Sitosterol	18.97	.31	mg/kg	J
	Total TIC, Semi-Volatile		3.86	mg/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	JD91339-14	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8081B SW846 3570	**Percent Solids:**	95.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G138929.D	1	07/02/24 18:19	TP	07/02/24 10:57	OP55825	G5G3662
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.00041	0.000080	mg/kg	
319-84-6	alpha-BHC	ND	0.00041	0.000047	mg/kg	
319-85-7	beta-BHC	ND	0.00041	0.000060	mg/kg	
319-86-8	delta-BHC	ND	0.00041	0.000062	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00041	0.000072	mg/kg	
5103-71-9	alpha-Chlordane [a]	0.000072	0.00041	0.000056	mg/kg	J
5103-74-2	gamma-Chlordane	ND	0.00041	0.000062	mg/kg	
57-74-9	Chlordane (alpha and gamma)	0.000072	0.00041	0.000056	mg/kg	J
60-57-1	Dieldrin	ND	0.00041	0.000066	mg/kg	
72-54-8	4,4'-DDD	ND	0.00041	0.000043	mg/kg	
72-55-9	4,4'-DDE [a]	0.00011	0.00041	0.000049	mg/kg	J
50-29-3	4,4'-DDT	0.00042	0.00041	0.000072	mg/kg	
72-20-8	Endrin	ND	0.00041	0.000060	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00041	0.000049	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00041	0.00012	mg/kg	
959-98-8	Endosulfan-I	ND	0.00041	0.000056	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00041	0.000058	mg/kg	
76-44-8	Heptachlor	ND	0.00041	0.000054	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00041	0.000074	mg/kg	
72-43-5	Methoxychlor	ND	0.00041	0.00016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00041	0.000066	mg/kg	
8001-35-2	Toxaphene	ND	0.0052	0.0034	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		46-145%
877-09-8	Tetrachloro-m-xylene	111%		46-145%
2051-24-3	Decachlorobiphenyl	88%		29-163%
2051-24-3	Decachlorobiphenyl	85%		29-163%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	JD91339-14	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
Method:	SW846 8082A SW846 3570	**Percent Solids:**	95.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RL18048.D	1	07/02/24 17:24	MLC	07/02/24 10:57	OP55826	GRL401
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.021	0.0088	mg/kg	
11104-28-2	Aroclor 1221	ND	0.021	0.0069	mg/kg	
11141-16-5	Aroclor 1232	ND	0.021	0.017	mg/kg	
53469-21-9	Aroclor 1242	ND	0.021	0.012	mg/kg	
12672-29-6	Aroclor 1248	ND	0.021	0.0045	mg/kg	
11097-69-1	Aroclor 1254	ND	0.021	0.0022	mg/kg	
11096-82-5	Aroclor 1260	ND	0.021	0.0071	mg/kg	
11100-14-4	Aroclor 1268	ND	0.021	0.0021	mg/kg	
37324-23-5	Aroclor 1262	ND	0.021	0.0017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		42-159%
877-09-8	Tetrachloro-m-xylene	96%		42-159%
2051-24-3	Decachlorobiphenyl	85%		18-154%
2051-24-3	Decachlorobiphenyl	93%		18-154%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP-2
Lab Sample ID: JD91339-14
Matrix: SO - Soil
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Date Sampled: 06/27/24
Date Received: 06/28/24
Percent Solids: 95.1

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	14000	48	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Antimony	< 1.9	1.9	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Arsenic	5.3	1.9	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Barium	47.9	19	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Beryllium	0.67	0.19	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cadmium	< 0.48	0.48	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Calcium	< 480	480	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Chromium	11.9	0.96	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Cobalt	5.5	4.8	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Copper	6.1	2.4	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Iron	17100	48	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Lead	19.1	1.9	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Magnesium	1690	480	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Manganese	447	1.4	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Mercury	0.079	0.027	mg/kg	1	07/02/24	07/03/24	MK	SW846 7471B [2]	SW846 7471B [4]
Nickel	12.7	3.8	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Potassium	< 960	960	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Selenium	< 1.9	1.9	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Silver	< 0.48	0.48	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Sodium	< 960	960	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Thallium	< 0.96	0.96	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Vanadium	20.7	4.8	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]
Zinc	36.6	4.8	mg/kg	1	07/01/24	07/02/24	KP	SW846 6010D [1]	SW846 3050B [3]

(1) Instrument QC Batch: MA56403
(2) Instrument QC Batch: MA56407
(3) Prep QC Batch: MP47605
(4) Prep QC Batch: MP47655

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	JD91339-14	**Date Sampled:**	06/27/24
Matrix:	SO - Soil	**Date Received:**	06/28/24
		Percent Solids:	95.1
Project:	Ridgewood Berm Sampling, Ridgewood, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.43	0.43	mg/kg	1	07/05/24 16:24	RI	SW846 3060A/7196A
Cyanide	< 0.24	0.24	mg/kg	1	07/02/24 18:40	JD	SW846 9012B/LACHAT
Redox Potential Vs H2	434		mv	1	07/02/24 18:58	DB	ASTM D1498-76M
Solids, Percent	95.1		%	1	07/02/24 16:00	RI	SM2540 G 18TH ED MOD
pH [a]	3.44		su	1	07/02/24 19:21	DB	SW846 9045D

(a) Field analysis required. Received out of hold time and analyzed by request. Temp of pH Reading: 19.4 Deg. C

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

Parameter Certification Exceptions

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Redox Potential Vs H2		**ASTM D1498-76M**	SO	SGS is not certified for this parameter.[a]
Redox Potential Vs H2		**ASTM D1498-76**	AQ	SGS is not certified for this parameter.[a]

(a) Lab cert for analyte not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

PN

SO
SLL
AQ

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

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FED-EX Tracking #
Bottle Order Control # DKEN-TM-062424-T2
SGS Quote #
SGS Job # JD91339

Client / Reporting Information

Company Name: Matrix New World Engineering
Street Address: 26 Columbia Turnpike
City / State / Zip: Florham Park NJ
Project Contact / E-mail: Melissa Feury mfeury@mnwe.com
Phone #: 973-240-1800
Sampler(s) Name(s) / Phone #: D. Campoverde/D. Cavallo
Project Manager: Melissa Feury

Project Information

Project Name: Ridgewood Village Historic Site
Street: 460 west Saddle River Rd
City / State: Ridgewood NJ
Project #: 23-1429
Client Purchase Order #: 2024 1801
Attention:

Billing Information (if different from Report to)

Company Name
Street Address
City / State / Zip

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Source Ordinal ed (Y/N)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	TCL/TAL + 30	Hex Chrome	TCL VOCs									LAB USE ONLY
1	Grid-3		6/27/24	0920	DC	G			2					2				X	X										
2	Grid-4			0940					2					2				X	X										
3	Grid-20			1000					2					2				X	X										
4	Grid-11	•		1015					5					2			3	X	X	X									
5	Grid-10a			1030					2									X	X										
6	Grid-21	•		1100					5					2			3	X	X	X									
7	Grid-9			1115					2					2				X	X										
8	Grid-8a			1140					1					1				X	X										
9	Grid-5			1220														X	X										
10	Grid-6			1230														X	X										
11	Grid-7			1245														X	X										
12	FB-3			1400														X	X										

Turn Around Time (Business Days)

Approved By (SGS PM) / Date:

- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via SGS Engage

* Approval needed for 1-3 BD TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

• 3x 5g Encore
Initial Assessment 3AHR
Label Verification

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:
1	D Cavallo	6/27/24 945	1 Eng Batista
2	Relinquished By: Eng Batista	Date / Time: 06-28-24 1631	Received By: 2 Scanning
3	Relinquished by:	Date / Time:	Received By: 3
4	Relinquished By:	Date / Time:	Received By: 4
5	Relinquished by:	Date / Time:	Received By: 5

Custody Seal # ☐ Intact ☐ Not intact ☐ Absent
Therm ID: See Sample Receipt Summary
On Ice ☐ Cooler Temp. °C
3.6, 2.9, 3.2 1830

EHSA-QAC-0023-05 Rev.Date:8/5/22

5.2 5

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

Page __ of __

FED-EX Tracking # | Bottle Order Control #
SGS Quote # | SGS Job # JD91339

Client / Reporting Information

Company Name:
Street Address
City State Zip
Project Contact E-mail
Phone #
Sampler(s) Name(s) Phone #

Project Information

Project Name:
Street
City State
Project #
Client Purchase Order #
Project Manager
Attention:

Billing Information (if different from Report to)

Company Name
Street Address
City State Zip

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) / Comp (C)	Source Chlorinated (Y/N)	Matrix	Number of Bottles # of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	pH Check (Lab Use Only)	LAB USE ONLY
13	DUP-1		6/27/24	--:--															
14	DUP-2		6/27/24	--:--															

Turn Around Time (Business Days)

Approved By (SGS PM) / Date:

- [ ] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via SGS Engage
* Approval needed for 1-3 BD TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:
1	Client	6/27/24 9:55	SGS Courier
2	SGS Courier	6/28/24 16:11	
3			
4			
5			

Custody Seal # ☐ Intact ☐ Not intact ☐ Absent
Therm ID: See Sample Receipt Summary
On Ice ☐ Cooler Temp. °C

EHSA-QAC-0023-05 Rev.Date:8/5/22

5.2 5

SGS Sample Receipt Summary

Job Number: jd91339 **Client:** MATRIX NEW WORLD ENGINEERING, IN **Project:** RIDGEWOOD BERM SAMPLING, RIDGEWO

Date / Time Received: 6/28/2024 4:21:00 PM **Delivery Method:** SGS COURIER **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.6); Cooler 2: (2.9); Cooler 3: (3.2);

Cooler Temps (Corrected) °C: Cooler 1: (4.0); Cooler 2: (3.3); Cooler 3: (3.6);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	3		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

2 extra samples received that were not listed on COC. Added to COC by SM
DUP-1 and DUP-2 16oz and 2oz jars were received and added to the end of the job as -13 and -14.

Addendum 7/1/2024:
VO volumes only received for JD91339-4 and -6

Responded to by: Tammy Esposito McCloskey Response Date: 7/1/2024

The extra volumes received for DUP-1 and DUP-2 should be analyzed for SVOC, PCB, Pest, TAL Metals & Hex Chrom per Melissa Feury.

Addendum 7/1/2024:
DUP-1 and DUP-2 should also be analyzed for CN per Melissa Feury

VO's are to only be analyzed on JD91339-4 and -6 per Melissa Feury.

JD91339: Chain of Custody
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Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD91339

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429 PO#2024 1801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD91339-1 GRID-3	Collected: 27-JUN-24 09:20 By: DC		Received: 28-JUN-24 By: JW			
JD91339-1	SM2540 G 18TH ED MOD	29-JUN-24 14:00	MK			SOL104
JD91339-1	SW846 8082A	01-JUL-24 18:35	MLC	01-JUL-24	LH	P8082PCB11AO
JD91339-1	SW846 6010D	01-JUL-24 18:35	KP	01-JUL-24	SS	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91339-1	SW846 9012B/LACHAT	01-JUL-24 21:06	JD	01-JUL-24	MS	CN
JD91339-1	ASTM D1498-76M	02-JUL-24 18:08	DB			EH
JD91339-1	SW846 9045D	02-JUL-24 18:40	DB			PHTEMP
JD91339-1	SW846 8081B	02-JUL-24 19:35	MLC	01-JUL-24	LH	P8081PESTTCL
JD91339-1	SW846 7471B	03-JUL-24 11:11	MK	01-JUL-24	MK	HG
JD91339-1	SW846 8270E	03-JUL-24 13:12	KM	02-JUL-24	TG	AB8270TCL20+
JD91339-1	SW846 3060A/7196A	05-JUL-24 16:21	RI	01-JUL-24	DB	XCRA
JD91339-2 GRID-4	Collected: 27-JUN-24 09:40 By: DC		Received: 28-JUN-24 By: JW			
JD91339-2	SM2540 G 18TH ED MOD	29-JUN-24 14:00	MK			SOL104
JD91339-2	SW846 8082A	01-JUL-24 18:17	MLC	01-JUL-24	LH	P8082PCB11AO
JD91339-2	SW846 6010D	01-JUL-24 18:50	KP	01-JUL-24	SS	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91339-2	SW846 9012B/LACHAT	01-JUL-24 21:07	JD	01-JUL-24	MS	CN
JD91339-2	ASTM D1498-76M	02-JUL-24 18:13	DB			EH
JD91339-2	SW846 9045D	02-JUL-24 18:43	DB			PHTEMP
JD91339-2	SW846 8081B	02-JUL-24 19:58	MLC	01-JUL-24	LH	P8081PESTTCL
JD91339-2	SW846 7471B	03-JUL-24 11:14	MK	01-JUL-24	MK	HG
JD91339-2	SW846 8270E	03-JUL-24 15:25	KM	02-JUL-24	TG	AB8270TCL20+
JD91339-2	SW846 3060A/7196A	05-JUL-24 16:21	RI	01-JUL-24	DB	XCRA
JD91339-3 GRID-20	Collected: 27-JUN-24 10:00 By: DC		Received: 28-JUN-24 By: JW			
JD91339-3	SM2540 G 18TH ED MOD	29-JUN-24 14:00	MK			SOL104
JD91339-3	SW846 8082A	01-JUL-24 18:53	MLC	01-JUL-24	LH	P8082PCB11AO
JD91339-3	SW846 6010D	01-JUL-24 19:05	KP	01-JUL-24	SS	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD91339

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429 PO#2024 1801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD91339-3	SW846 9012B/LACHAT	01-JUL-24 21:08	JD	01-JUL-24	MS	CN
JD91339-3	ASTM D1498-76M	02-JUL-24 18:14	DB			EH
JD91339-3	SW846 9045D	02-JUL-24 18:44	DB			PHTEMP
JD91339-3	SW846 8081B	02-JUL-24 20:20	MLC	01-JUL-24	LH	P8081PESTTCL
JD91339-3	SW846 7471B	03-JUL-24 11:16	MK	01-JUL-24	MK	HG
JD91339-3	SW846 8270E	03-JUL-24 15:43	KM	02-JUL-24	TG	AB8270TCL20+
JD91339-3	SW846 8270E	05-JUL-24 15:24	KH	02-JUL-24	TG	AB8270TCL20+
JD91339-3	SW846 3060A/7196A	05-JUL-24 16:21	RI	01-JUL-24	DB	XCRA
JD91339-4 GRID-11	Collected: 27-JUN-24 10:15 By: DC		Received: 28-JUN-24 By: JW			
JD91339-4	SM2540 G 18TH ED MOD.	29-JUN-24 14:00	MK			SOL104
JD91339-4	SW846 8082A	01-JUL-24 19:10	MLC	01-JUL-24	LH	P8082PCB11AO
JD91339-4	SW846 6010D	01-JUL-24 19:10	KP	01-JUL-24	SS	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91339-4	SW846 8260D	01-JUL-24 19:17	PS			V8260TCL20+
JD91339-4	SW846 9012B/LACHAT	01-JUL-24 21:09	JD	01-JUL-24	MS	CN
JD91339-4	ASTM D1498-76M	02-JUL-24 18:16	DB			EH
JD91339-4	SW846 9045D	02-JUL-24 18:46	DB			PHTEMP
JD91339-4	SW846 8081B	02-JUL-24 20:43	MLC	01-JUL-24	LH	P8081PESTTCL
JD91339-4	SW846 7471B	03-JUL-24 11:18	MK	01-JUL-24	MK	HG
JD91339-4	SW846 8270E	03-JUL-24 16:02	KM	02-JUL-24	TG	AB8270TCL20+
JD91339-4	SW846 3060A/7196A	05-JUL-24 16:21	RI	01-JUL-24	DB	XCRA
JD91339-5 GRID-10A	Collected: 27-JUN-24 10:30 By: DC		Received: 28-JUN-24 By: JW			
JD91339-5	SM2540 G 18TH ED MOD.	29-JUN-24 14:00	MK			SOL104
JD91339-5	SW846 6010D	01-JUL-24 19:15	KP	01-JUL-24	SS	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91339-5	SW846 8082A	01-JUL-24 19:28	MLC	01-JUL-24	LH	P8082PCB11AO
JD91339-5	SW846 9012B/LACHAT	01-JUL-24 21:10	JD	01-JUL-24	MS	CN
JD91339-5	ASTM D1498-76M	02-JUL-24 18:17	DB			EH
JD91339-5	SW846 9045D	02-JUL-24 18:49	DB			PHTEMP
JD91339-5	SW846 8081B	02-JUL-24 21:05	MLC	01-JUL-24	LH	P8081PESTTCL
JD91339-5	SW846 7471B	03-JUL-24 14:03	MK	01-JUL-24	MK	HG
JD91339-5	SW846 8270E	03-JUL-24 16:21	KM	02-JUL-24	TG	AB8270TCL20+

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD91339

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429 PO#2024 1801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD91339-5	SW846 3060A/7196A	05-JUL-24 16:21	RI	01-JUL-24	DB	XCRA
JD91339-6	Collected: 27-JUN-24 11:00 By: DC		Received: 28-JUN-24 By: JW			
GRID-21						
JD91339-6	SM2540 G 18TH ED MOD	29-JUN-24 14:00	MK			SOL104
JD91339-6	SW846 6010D	01-JUL-24 19:20	KP	01-JUL-24	SS	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91339-6	SW846 8260D	01-JUL-24 19:43	PS			V8260TCL20+
JD91339-6	SW846 8082A	01-JUL-24 19:46	MLC	01-JUL-24	LH	P8082PCB11AO
JD91339-6	SW846 9012B/LACHAT	01-JUL-24 21:10	JD	01-JUL-24	MS	CN
JD91339-6	ASTM D1498-76M	02-JUL-24 18:19	DB			EH
JD91339-6	SW846 9045D	02-JUL-24 18:54	DB			PHTEMP
JD91339-6	SW846 8081B	02-JUL-24 21:28	MLC	01-JUL-24	LH	P8081PESTTCL
JD91339-6	SW846 7471B	03-JUL-24 11:34	MK	01-JUL-24	MK	HG
JD91339-6	SW846 8270E	03-JUL-24 16:40	KM	02-JUL-24	TG	AB8270TCL20+
JD91339-6	SW846 3060A/7196A	05-JUL-24 16:21	RI	01-JUL-24	DB	XCRA
JD91339-7	Collected: 27-JUN-24 11:15 By: DC		Received: 28-JUN-24 By: JW			
GRID-9						
JD91339-7	SM2540 G 18TH ED MOD	29-JUN-24 14:00	MK			SOL104
JD91339-7	SW846 6010D	01-JUL-24 19:25	KP	01-JUL-24	SS	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91339-7	SW846 8082A	01-JUL-24 20:04	MLC	01-JUL-24	LH	P8082PCB11AO
JD91339-7	SW846 9012B/LACHAT	01-JUL-24 21:11	JD	01-JUL-24	MS	CN
JD91339-7	ASTM D1498-76M	02-JUL-24 18:23	DB			EH
JD91339-7	SW846 9045D	02-JUL-24 18:55	DB			PHTEMP
JD91339-7	SW846 8081B	02-JUL-24 21:50	MLC	01-JUL-24	LH	P8081PESTTCL
JD91339-7	SW846 7471B	03-JUL-24 11:36	MK	01-JUL-24	MK	HG
JD91339-7	SW846 8270E	03-JUL-24 13:31	KM	02-JUL-24	TG	AB8270TCL20+
JD91339-7	SW846 3060A/7196A	05-JUL-24 16:13	RI	01-JUL-24	DB	XCRA
JD91339-8	Collected: 27-JUN-24 11:40 By: DC		Received: 28-JUN-24 By: JW			
GRID-8A						
JD91339-8	SM2540 G 18TH ED MOD	29-JUN-24 14:00	MK			SOL104

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD91339

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429 PO#2024 1801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD91339-8	SW846 6010D	01-JUL-24 19:30	KP	01-JUL-24	SS	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91339-8	SW846 8082A	01-JUL-24 20:22	MLC	01-JUL-24	LH	P8082PCB11AO
JD91339-8	SW846 9012B/LACHAT	01-JUL-24 21:12	JD	01-JUL-24	MS	CN
JD91339-8	ASTM D1498-76M	02-JUL-24 18:37	DB			EH
JD91339-8	SW846 9045D	02-JUL-24 19:07	DB			PHTEMP
JD91339-8	SW846 8081B	02-JUL-24 22:13	MLC	01-JUL-24	LH	P8081PESTTCL
JD91339-8	SW846 7471B	03-JUL-24 11:40	MK	01-JUL-24	MK	HG
JD91339-8	SW846 8270E	03-JUL-24 13:50	KM	02-JUL-24	TG	AB8270TCL20+
JD91339-8	SW846 3060A/7196A	05-JUL-24 16:21	RI	01-JUL-24	DB	XCRA
JD91339-9	Collected: 27-JUN-24 12:20 By: DC			Received: 28-JUN-24 By: JW		
GRID-5						
JD91339-9	SM2540 G 18TH ED MOD.	29-JUN-24 14:00	MK			SOL104
JD91339-9	SW846 6010D	01-JUL-24 19:35	KP	01-JUL-24	SS	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91339-9	SW846 8082A	01-JUL-24 20:40	MLC	01-JUL-24	LH	P8082PCB11AO
JD91339-9	SW846 9012B/LACHAT	01-JUL-24 21:15	JD	01-JUL-24	MS	CN
JD91339-9	ASTM D1498-76M	02-JUL-24 18:39	DB			EH
JD91339-9	SW846 9045D	02-JUL-24 19:07	DB			PHTEMP
JD91339-9	SW846 8081B	02-JUL-24 22:35	MLC	01-JUL-24	LH	P8081PESTTCL
JD91339-9	SW846 7471B	03-JUL-24 11:44	MK	01-JUL-24	MK	HG
JD91339-9	SW846 8270E	03-JUL-24 14:09	KM	02-JUL-24	TG	AB8270TCL20+
JD91339-9	SW846 8081B	03-JUL-24 23:12	MLC	01-JUL-24	LH	P8081PESTTCL
JD91339-9	SW846 8081B	03-JUL-24 23:34	MLC	01-JUL-24	LH	P8081PESTTCL
JD91339-9	SW846 3060A/7196A	05-JUL-24 16:21	RI	01-JUL-24	DB	XCRA
JD91339-10	Collected: 27-JUN-24 12:30 By: DC			Received: 28-JUN-24 By: JW		
GRID-6						
JD91339-10	SM2540 G 18TH ED MOD.	29-JUN-24 14:00	MK			SOL104
JD91339-10	SW846 6010D	01-JUL-24 19:40	KP	01-JUL-24	SS	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91339-10	SW846 8082A	01-JUL-24 20:58	MLC	01-JUL-24	LH	P8082PCB11AO
JD91339-10	SW846 9012B/LACHAT	01-JUL-24 21:16	JD	01-JUL-24	MS	CN
JD91339-10	ASTM D1498-76M	02-JUL-24 18:46	DB			EH

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD91339

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429 PO#2024 1801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD91339-10	SW846 9045D	02-JUL-24 19:11	DB			PHTEMP
JD91339-10	SW846 8081B	02-JUL-24 22:58	MLC	01-JUL-24	LH	P8081PESTTCL
JD91339-10	SW846 7471B	03-JUL-24 11:50	MK	01-JUL-24	MK	HG
JD91339-10	SW846 8270E	03-JUL-24 14:47	KM	02-JUL-24	TG	AB8270TCL20+
JD91339-10	SW846 3060A/7196A	05-JUL-24 16:21	RI	01-JUL-24	DB	XCRA
JD91339-11	Collected: 27-JUN-24 12:45 By: DC		Received: 28-JUN-24 By: JW			
GRID-7						
JD91339-11	SM2540 G 18TH ED MOD.	29-JUN-24 14:00	MK			SOL104
JD91339-11	SW846 6010D	01-JUL-24 19:45	KP	01-JUL-24	SS	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91339-11	SW846 8082A	01-JUL-24 21:16	MLC	01-JUL-24	LH	P8082PCB11AO
JD91339-11	SW846 9012B/LACHAT	01-JUL-24 21:17	JD	01-JUL-24	MS	CN
JD91339-11	ASTM D1498-76M	02-JUL-24 18:50	DB			EH
JD91339-11	SW846 9045D	02-JUL-24 19:13	DB			PHTEMP
JD91339-11	SW846 8081B	02-JUL-24 23:20	MLC	01-JUL-24	LH	P8081PESTTCL
JD91339-11	SW846 7471B	03-JUL-24 11:53	MK	01-JUL-24	MK	HG
JD91339-11	SW846 8270E	03-JUL-24 15:06	KM	02-JUL-24	TG	AB8270TCL20+
JD91339-11	SW846 3060A/7196A	05-JUL-24 16:21	RI	01-JUL-24	DB	XCRA
JD91339-12	Collected: 27-JUN-24 14:00 By: DC		Received: 28-JUN-24 By: JW			
FB-3						
JD91339-12	SW846 8082A	01-JUL-24 18:04	MLC	30-JUN-24	DS	P8082PCB11AO
JD91339-12	SW846 6010D	01-JUL-24 22:42	KP	01-JUL-24	MK	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91339-12	SW846 8081B	02-JUL-24 06:49	CP	30-JUN-24	DS	P8081PESTTCL
JD91339-12	SW846 7470A	02-JUL-24 11:24	SS	01-JUL-24	MK	HG
JD91339-12	SM4500H+ B-11	02-JUL-24 16:34	JOO			PHLABTEMP
JD91339-12	SW846 8270E	02-JUL-24 16:54	KM	01-JUL-24	AG	AB8270TCL20+
JD91339-12	ASTM D1498-76	02-JUL-24 17:12	DB			EH
JD91339-12	EPA 335.4/LACHAT	02-JUL-24 18:27	JD	02-JUL-24	MS	CN
JD91339-12	SW846 7196A	03-JUL-24 12:26	RI			XCR
JD91339-13	Collected: 27-JUN-24 00:00 By: DC		Received: 28-JUN-24 By: JW			
DUP-1						

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JD91339

Ridgewood Berm Sampling, Ridgewood, NJ
Project No: 23-1429 PO#2024 1801

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD91339-13	SW846 6010D	02-JUL-24 15:00	KP	01-JUL-24	XDS	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91339-13	SM2540 G 18TH ED MOD.	02-JUL-24 16:00	RI			SOL104
JD91339-13	SW846 8082A	02-JUL-24 17:07	MLC	02-JUL-24	LH	P8082PCB11AO
JD91339-13	SW846 8081B	02-JUL-24 17:59	TP	02-JUL-24	LH	P8081PESTTCL
JD91339-13	SW846 9012B/LACHAT	02-JUL-24 18:39	JD	02-JUL-24	MS	CN
JD91339-13	ASTM D1498-76M	02-JUL-24 18:53	DB			EH
JD91339-13	SW846 9045D	02-JUL-24 19:18	DB			PHTEMP
JD91339-13	SW846 7471B	03-JUL-24 12:08	MK	02-JUL-24	MK	HG
JD91339-13	SW846 8270E	03-JUL-24 14:17	AO	02-JUL-24	IS	AB8270TCL20+
JD91339-13	SW846 3060A/7196A	05-JUL-24 16:24	RI	01-JUL-24	DB	XCRA
JD91339-14	Collected: 27-JUN-24 00:00 By: DC		Received: 28-JUN-24 By: JW			
DUP-2						
JD91339-14	SW846 6010D	02-JUL-24 15:05	KP	01-JUL-24	XDS	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD91339-14	SM2540 G 18TH ED MOD.	02-JUL-24 16:00	RI			SOL104
JD91339-14	SW846 8082A	02-JUL-24 17:24	MLC	02-JUL-24	LH	P8082PCB11AO
JD91339-14	SW846 8081B	02-JUL-24 18:19	TP	02-JUL-24	LH	P8081PESTTCL
JD91339-14	SW846 9012B/LACHAT	02-JUL-24 18:40	JD	02-JUL-24	MS	CN
JD91339-14	ASTM D1498-76M	02-JUL-24 18:58	DB			EH
JD91339-14	SW846 9045D	02-JUL-24 19:21	DB			PHTEMP
JD91339-14	SW846 7471B	03-JUL-24 12:14	MK	02-JUL-24	MK	HG
JD91339-14	SW846 8270E	03-JUL-24 14:43	AO	02-JUL-24	IS	AB8270TCL20+
JD91339-14	SW846 3060A/7196A	05-JUL-24 16:24	RI	01-JUL-24	DB	XCRA

SGS Internal Chain of Custody

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/28/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91339-1.1	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-1.1	Secured Storage	Dave Hunkele	06/29/24 12:38	Retrieve from Storage
JD91339-1.1	Dave Hunkele	Secured Staging Area	06/29/24 12:39	Return to Storage
JD91339-1.1	Secured Staging Area	Amin Bhavin	07/01/24 06:32	Retrieve from Storage
JD91339-1.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91339-1.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage
JD91339-1.1	Secured Storage	Amin Bhavin	07/02/24 06:22	Retrieve from Storage
JD91339-1.1	Amin Bhavin	Secured Storage	07/02/24 14:16	Return to Storage
JD91339-1.1	Secured Storage	Daniel Broche	07/02/24 15:14	Retrieve from Storage
JD91339-1.1	Daniel Broche	Secured Storage	07/02/24 19:28	Return to Storage
JD91339-1.1.1	Amin Bhavin	Organics Prep	07/01/24 07:34	Extract from JD91339-1.1
JD91339-1.1.1	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-1.1
JD91339-1.1.1	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-1.1.2	Amin Bhavin	Organics Prep	07/01/24 07:35	Extract from JD91339-1.1
JD91339-1.1.2	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-1.1.2	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-1.1
JD91339-1.1.3	Amin Bhavin	Organics Prep	07/02/24 06:22	Extract from JD91339-1.1
JD91339-1.1.3	Organics Prep	Ellen Dondeo	07/02/24 21:39	Extract from JD91339-1.1
JD91339-1.1.3	Ellen Dondeo	Extract Storage	07/02/24 21:39	Return to Storage
JD91339-1.2	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-1.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91339-1.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91339-1.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91339-1.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91339-1.2	Secured Storage	Dave Hunkele	06/29/24 14:20	Retrieve from Storage
JD91339-1.2	Dave Hunkele	Secured Staging Area	06/29/24 14:20	Return to Storage
JD91339-1.2	Secured Staging Area	Brianna Perez	07/01/24 06:26	Retrieve from Storage
JD91339-1.2	Brianna Perez	Secured Storage	07/01/24 13:26	Return to Storage
JD91339-1.2.1	Brianna Perez	Metals Digestion	07/01/24 13:12	Digestate from JD91339-1.2
JD91339-1.2.1	Metals Digestion	Brianna Perez	07/01/24 13:12	Digestate from JD91339-1.2
JD91339-1.2.1	Brianna Perez	Metals Digestate Storage	07/01/24 13:12	Return to Storage
JD91339-2.1	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-2.1	Secured Storage	Dave Hunkele	06/29/24 12:38	Retrieve from Storage
JD91339-2.1	Dave Hunkele	Secured Staging Area	06/29/24 12:39	Return to Storage
JD91339-2.1	Secured Staging Area	Amin Bhavin	07/01/24 06:32	Retrieve from Storage
JD91339-2.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91339-2.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage
JD91339-2.1	Secured Storage	Amin Bhavin	07/02/24 06:22	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/28/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91339-2.1	Amin Bhavin	Secured Storage	07/02/24 14:16	Return to Storage
JD91339-2.1	Secured Storage	Daniel Broche	07/02/24 15:14	Retrieve from Storage
JD91339-2.1	Daniel Broche	Secured Storage	07/02/24 19:28	Return to Storage
JD91339-2.1.1	Amin Bhavin	Organics Prep	07/01/24 07:34	Extract from JD91339-2.1
JD91339-2.1.1	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-2.1
JD91339-2.1.1	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-2.1.2	Amin Bhavin	Organics Prep	07/01/24 07:35	Extract from JD91339-2.1
JD91339-2.1.2	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-2.1.2	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-2.1
JD91339-2.1.3	Amin Bhavin	Organics Prep	07/02/24 06:22	Extract from JD91339-2.1
JD91339-2.1.3	Organics Prep	Ellen Dondeo	07/02/24 21:39	Extract from JD91339-2.1
JD91339-2.1.3	Ellen Dondeo	Extract Storage	07/02/24 21:39	Return to Storage
JD91339-2.2	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-2.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91339-2.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91339-2.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91339-2.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91339-2.2	Secured Storage	Dave Hunkele	06/29/24 14:20	Retrieve from Storage
JD91339-2.2	Dave Hunkele	Secured Staging Area	06/29/24 14:20	Return to Storage
JD91339-2.2	Secured Staging Area	Brianna Perez	07/01/24 06:26	Retrieve from Storage
JD91339-2.2	Brianna Perez	Secured Storage	07/01/24 13:26	Return to Storage
JD91339-2.2.1	Brianna Perez	Metals Digestion	07/01/24 13:12	Digestate from JD91339-2.2
JD91339-2.2.1	Metals Digestion	Brianna Perez	07/01/24 13:12	Digestate from JD91339-2.2
JD91339-2.2.1	Brianna Perez	Metals Digestate Storage	07/01/24 13:12	Return to Storage
JD91339-3.1	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-3.1	Secured Storage	Dave Hunkele	06/29/24 12:38	Retrieve from Storage
JD91339-3.1	Dave Hunkele	Secured Staging Area	06/29/24 12:39	Return to Storage
JD91339-3.1	Secured Staging Area	Amin Bhavin	07/01/24 06:32	Retrieve from Storage
JD91339-3.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91339-3.1	Secured Storage	Aleandi Rodriguez	07/01/24 22:52	Retrieve from Storage
stage				
JD91339-3.1	Aleandi Rodriguez	Secured Staging Area	07/01/24 22:52	Return to Storage
JD91339-3.1	Secured Staging Area	Amin Bhavin	07/02/24 06:13	Retrieve from Storage
JD91339-3.1	Amin Bhavin	Secured Storage	07/02/24 14:16	Return to Storage
JD91339-3.1	Secured Storage	Daniel Broche	07/02/24 15:14	Retrieve from Storage
JD91339-3.1	Daniel Broche	Secured Storage	07/02/24 19:28	Return to Storage
JD91339-3.1.1	Amin Bhavin	Organics Prep	07/01/24 07:34	Extract from JD91339-3.1

SGS Internal Chain of Custody

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/28/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91339-3.1.1	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-3.1
JD91339-3.1.1	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-3.1.2	Amin Bhavin	Organics Prep	07/01/24 07:35	Extract from JD91339-3.1
JD91339-3.1.2	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-3.1.2	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-3.1
JD91339-3.1.3	Amin Bhavin	Organics Prep	07/02/24 06:17	Extract from JD91339-3.1
JD91339-3.1.3	Organics Prep	Ellen Dondeo	07/02/24 21:39	Extract from JD91339-3.1
JD91339-3.1.3	Ellen Dondeo	Extract Storage	07/02/24 21:39	Return to Storage
JD91339-3.2	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-3.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91339-3.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91339-3.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91339-3.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91339-3.2	Secured Storage	Dave Hunkele	06/29/24 14:20	Retrieve from Storage
JD91339-3.2	Dave Hunkele	Secured Staging Area	06/29/24 14:20	Return to Storage
JD91339-3.2	Secured Staging Area	Brianna Perez	07/01/24 06:26	Retrieve from Storage
JD91339-3.2	Brianna Perez	Secured Storage	07/01/24 13:26	Return to Storage
JD91339-3.2.1	Brianna Perez	Metals Digestion	07/01/24 13:12	Digestate from JD91339-3.2
JD91339-3.2.1	Metals Digestion	Brianna Perez	07/01/24 13:12	Digestate from JD91339-3.2
JD91339-3.2.1	Brianna Perez	Metals Digestate Storage	07/01/24 13:12	Return to Storage
JD91339-4.1	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-4.1	Secured Storage	Dave Hunkele	06/29/24 12:38	Retrieve from Storage
JD91339-4.1	Dave Hunkele	Secured Staging Area	06/29/24 12:39	Return to Storage
JD91339-4.1	Secured Staging Area	Amin Bhavin	07/01/24 06:32	Retrieve from Storage
JD91339-4.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91339-4.1	Secured Storage	Aleandi Rodriguez	07/01/24 22:52	Retrieve from Storage
stage				
JD91339-4.1	Aleandi Rodriguez	Secured Staging Area	07/01/24 22:52	Return to Storage
JD91339-4.1	Secured Staging Area	Amin Bhavin	07/02/24 06:13	Retrieve from Storage
JD91339-4.1	Amin Bhavin	Secured Storage	07/02/24 14:16	Return to Storage
JD91339-4.1	Secured Storage	Daniel Broche	07/02/24 15:14	Retrieve from Storage
JD91339-4.1	Daniel Broche	Secured Storage	07/02/24 19:28	Return to Storage
JD91339-4.1.1	Amin Bhavin	Organics Prep	07/01/24 07:34	Extract from JD91339-4.1
JD91339-4.1.1	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-4.1
JD91339-4.1.1	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-4.1.2	Amin Bhavin	Organics Prep	07/01/24 07:35	Extract from JD91339-4.1
JD91339-4.1.2	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage

SGS Internal Chain of Custody

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/28/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91339-4.1.2	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-4.1
JD91339-4.1.3	Amin Bhavin	Organics Prep	07/02/24 06:17	Extract from JD91339-4.1
JD91339-4.1.3	Organics Prep	Ellen Dondeo	07/02/24 21:39	Extract from JD91339-4.1
JD91339-4.1.3	Ellen Dondeo	Extract Storage	07/02/24 21:39	Return to Storage
JD91339-4.2	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-4.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91339-4.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91339-4.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91339-4.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91339-4.2	Secured Storage	Dave Hunkele	06/29/24 14:20	Retrieve from Storage
JD91339-4.2	Dave Hunkele	Secured Staging Area	06/29/24 14:20	Return to Storage
JD91339-4.2	Secured Staging Area	Brianna Perez	07/01/24 06:26	Retrieve from Storage
JD91339-4.2	Brianna Perez	Secured Storage	07/01/24 13:26	Return to Storage
JD91339-4.2.1	Brianna Perez	Metals Digestion	07/01/24 13:12	Digestate from JD91339-4.2
JD91339-4.2.1	Metals Digestion	Brianna Perez	07/01/24 13:12	Digestate from JD91339-4.2
JD91339-4.2.1	Brianna Perez	Metals Digestate Storage	07/01/24 13:12	Return to Storage
JD91339-4.3	Secured Storage	Naomi Baxter	06/29/24 05:01	Retrieve from Storage
JD91339-4.3	Naomi Baxter		06/29/24 05:02	Depleted
JD91339-4.4	Naomi Baxter	Secured Storage	06/29/24 05:02	Return to Storage
JD91339-4.5	Naomi Baxter	Secured Storage	06/29/24 05:02	Return to Storage
JD91339-4.5	Secured Storage	Prashant Shukla	07/01/24 16:41	Retrieve from Storage
JD91339-4.5	Prashant Shukla	GCMS1C	07/01/24 16:41	Load on Instrument
JD91339-4.5	GCMS1C	Prashant Shukla	07/02/24 08:22	Unload from Instrument
JD91339-4.5	Prashant Shukla		07/02/24 08:23	Depleted
JD91339-4.6	Naomi Baxter	Secured Storage	06/29/24 05:02	Return to Storage
JD91339-5.1	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-5.1	Secured Storage	Dave Hunkele	06/29/24 12:38	Retrieve from Storage
JD91339-5.1	Dave Hunkele	Secured Staging Area	06/29/24 12:39	Return to Storage
JD91339-5.1	Secured Staging Area	Amin Bhavin	07/01/24 06:32	Retrieve from Storage
JD91339-5.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91339-5.1	Secured Storage	Aleandi Rodriguez	07/01/24 22:52	Retrieve from Storage
stage				
JD91339-5.1	Aleandi Rodriguez	Secured Staging Area	07/01/24 22:52	Return to Storage
JD91339-5.1	Secured Staging Area	Amin Bhavin	07/02/24 06:13	Retrieve from Storage
JD91339-5.1	Amin Bhavin	Secured Storage	07/02/24 14:16	Return to Storage
JD91339-5.1	Secured Storage	Daniel Broche	07/02/24 15:14	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/28/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91339-5.1	Daniel Broche	Secured Storage	07/02/24 19:28	Return to Storage
JD91339-5.1.1	Amin Bhavin	Organics Prep	07/01/24 07:34	Extract from JD91339-5.1
JD91339-5.1.1	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-5.1
JD91339-5.1.1	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-5.1.2	Amin Bhavin	Organics Prep	07/01/24 07:35	Extract from JD91339-5.1
JD91339-5.1.2	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-5.1.2	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-5.1
JD91339-5.1.3	Amin Bhavin	Organics Prep	07/02/24 06:17	Extract from JD91339-5.1
JD91339-5.1.3	Organics Prep	Ellen Dondeo	07/02/24 21:39	Extract from JD91339-5.1
JD91339-5.1.3	Ellen Dondeo	Extract Storage	07/02/24 21:39	Return to Storage
JD91339-5.2	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-5.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91339-5.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91339-5.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91339-5.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91339-5.2	Secured Storage	Dave Hunkele	06/29/24 14:20	Retrieve from Storage
JD91339-5.2	Dave Hunkele	Secured Staging Area	06/29/24 14:20	Return to Storage
JD91339-5.2	Secured Staging Area	Brianna Perez	07/01/24 06:26	Retrieve from Storage
JD91339-5.2	Brianna Perez	Secured Storage	07/01/24 13:26	Return to Storage
JD91339-5.2.1	Brianna Perez	Metals Digestion	07/01/24 13:12	Digestate from JD91339-5.2
JD91339-5.2.1	Metals Digestion	Brianna Perez	07/01/24 13:12	Digestate from JD91339-5.2
JD91339-5.2.1	Brianna Perez	Metals Digestate Storage	07/01/24 13:12	Return to Storage
JD91339-6.1	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-6.1	Secured Storage	Dave Hunkele	06/29/24 12:38	Retrieve from Storage
JD91339-6.1	Dave Hunkele	Secured Staging Area	06/29/24 12:39	Return to Storage
JD91339-6.1	Secured Staging Area	Amin Bhavin	07/01/24 06:32	Retrieve from Storage
JD91339-6.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91339-6.1	Secured Storage	Aleandi Rodriguez	07/01/24 22:52	Retrieve from Storage
stage				
JD91339-6.1	Aleandi Rodriguez	Secured Staging Area	07/01/24 22:52	Return to Storage
JD91339-6.1	Secured Staging Area	Amin Bhavin	07/02/24 06:13	Retrieve from Storage
JD91339-6.1	Amin Bhavin	Secured Storage	07/02/24 14:16	Return to Storage
JD91339-6.1	Secured Storage	Daniel Broche	07/02/24 15:14	Retrieve from Storage
JD91339-6.1	Daniel Broche	Secured Storage	07/02/24 19:28	Return to Storage
JD91339-6.1.1	Amin Bhavin	Organics Prep	07/01/24 07:34	Extract from JD91339-6.1
JD91339-6.1.1	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-6.1
JD91339-6.1.1	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage

SGS Internal Chain of Custody

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/28/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91339-6.1.2	Amin Bhavin	Organics Prep	07/01/24 07:35	Extract from JD91339-6.1
JD91339-6.1.2	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-6.1.2	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-6.1
JD91339-6.1.3	Amin Bhavin	Organics Prep	07/02/24 06:17	Extract from JD91339-6.1
JD91339-6.1.3	Organics Prep	Ellen Dondeo	07/02/24 21:39	Extract from JD91339-6.1
JD91339-6.1.3	Ellen Dondeo	Extract Storage	07/02/24 21:39	Return to Storage
JD91339-6.2	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-6.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91339-6.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91339-6.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91339-6.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91339-6.2	Secured Storage	Dave Hunkele	06/29/24 14:20	Retrieve from Storage
JD91339-6.2	Dave Hunkele	Secured Staging Area	06/29/24 14:20	Return to Storage
JD91339-6.2	Secured Staging Area	Brianna Perez	07/01/24 06:26	Retrieve from Storage
JD91339-6.2	Brianna Perez	Secured Storage	07/01/24 13:26	Return to Storage
JD91339-6.3	Secured Storage	Naomi Baxter	06/29/24 05:01	Retrieve from Storage
JD91339-6.3	Naomi Baxter		06/29/24 05:02	Depleted
JD91339-6.4	Naomi Baxter	Secured Storage	06/29/24 05:02	Return to Storage
JD91339-6.5	Naomi Baxter	Secured Storage	06/29/24 05:02	Return to Storage
JD91339-6.5	Secured Storage	Prashant Shukla	07/01/24 16:41	Retrieve from Storage
JD91339-6.5	Prashant Shukla	GCMS1C	07/01/24 16:41	Load on Instrument
JD91339-6.5	GCMS1C	Prashant Shukla	07/02/24 08:22	Unload from Instrument
JD91339-6.5	Prashant Shukla		07/02/24 08:23	Depleted
JD91339-6.6	Naomi Baxter	Secured Storage	06/29/24 05:02	Return to Storage
JD91339-7.1	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-7.1	Secured Storage	Dave Hunkele	06/29/24 12:38	Retrieve from Storage
JD91339-7.1	Dave Hunkele	Secured Staging Area	06/29/24 12:39	Return to Storage
JD91339-7.1	Secured Staging Area	Amin Bhavin	07/01/24 06:32	Retrieve from Storage
JD91339-7.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91339-7.1	Secured Storage	Aleandi Rodriguez	07/01/24 22:52	Retrieve from Storage
stage				
JD91339-7.1	Aleandi Rodriguez	Secured Staging Area	07/01/24 22:52	Return to Storage
JD91339-7.1	Secured Staging Area	Amin Bhavin	07/02/24 06:13	Retrieve from Storage
JD91339-7.1	Amin Bhavin	Secured Storage	07/02/24 14:16	Return to Storage
JD91339-7.1	Secured Storage	Daniel Broche	07/02/24 15:14	Retrieve from Storage
JD91339-7.1	Daniel Broche	Secured Storage	07/02/24 19:28	Return to Storage

SGS Internal Chain of Custody

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/28/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91339-7.1.1	Amin Bhavin	Organics Prep	07/01/24 07:34	Extract from JD91339-7.1
JD91339-7.1.1	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-7.1
JD91339-7.1.1	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-7.1.2	Amin Bhavin	Organics Prep	07/01/24 07:35	Extract from JD91339-7.1
JD91339-7.1.2	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-7.1.2	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-7.1
JD91339-7.1.3	Amin Bhavin	Organics Prep	07/02/24 06:17	Extract from JD91339-7.1
JD91339-7.1.3	Organics Prep	Ellen Dondeo	07/02/24 21:39	Extract from JD91339-7.1
JD91339-7.1.3	Ellen Dondeo	Extract Storage	07/02/24 21:39	Return to Storage
JD91339-7.2	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-7.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91339-7.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91339-7.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91339-7.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91339-7.2	Secured Storage	Dave Hunkele	06/29/24 14:20	Retrieve from Storage
JD91339-7.2	Dave Hunkele	Secured Staging Area	06/29/24 14:20	Return to Storage
JD91339-7.2	Secured Staging Area	Brianna Perez	07/01/24 06:26	Retrieve from Storage
JD91339-7.2	Brianna Perez	Secured Storage	07/01/24 13:26	Return to Storage
JD91339-7.2.1	Brianna Perez	Metals Digestion	07/01/24 13:12	Digestate from JD91339-7.2
JD91339-7.2.1	Metals Digestion	Brianna Perez	07/01/24 13:12	Digestate from JD91339-7.2
JD91339-7.2.1	Brianna Perez	Metals Digestate Storage	07/01/24 13:12	Return to Storage
JD91339-8.1	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-8.1	Secured Storage	Dave Hunkele	06/29/24 12:38	Retrieve from Storage
JD91339-8.1	Dave Hunkele	Secured Staging Area	06/29/24 12:39	Return to Storage
JD91339-8.1	Secured Staging Area	Amin Bhavin	07/01/24 06:32	Retrieve from Storage
JD91339-8.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91339-8.1	Secured Storage	Aleandi Rodriguez	07/01/24 22:52	Retrieve from Storage
stage				
JD91339-8.1	Aleandi Rodriguez	Secured Staging Area	07/01/24 22:52	Return to Storage
JD91339-8.1	Secured Staging Area	Amin Bhavin	07/02/24 06:13	Retrieve from Storage
JD91339-8.1	Amin Bhavin	Secured Storage	07/02/24 14:16	Return to Storage
JD91339-8.1	Secured Storage	Daniel Broche	07/02/24 15:14	Retrieve from Storage
JD91339-8.1	Daniel Broche	Secured Storage	07/02/24 19:28	Return to Storage
JD91339-8.1.1	Amin Bhavin	Organics Prep	07/01/24 07:34	Extract from JD91339-8.1
JD91339-8.1.1	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-8.1
JD91339-8.1.1	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage

SGS Internal Chain of Custody

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/28/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91339-8.1.2	Amin Bhavin	Organics Prep	07/01/24 07:35	Extract from JD91339-8.1
JD91339-8.1.2	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-8.1
JD91339-8.1.2	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-8.1.3	Amin Bhavin	Organics Prep	07/02/24 06:17	Extract from JD91339-8.1
JD91339-8.1.3	Organics Prep	Ellen Dondeo	07/02/24 21:39	Extract from JD91339-8.1
JD91339-8.1.3	Ellen Dondeo	Extract Storage	07/02/24 21:39	Return to Storage
JD91339-8.2	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-8.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91339-8.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91339-8.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91339-8.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91339-8.2	Secured Storage	Dave Hunkele	06/29/24 14:20	Retrieve from Storage
JD91339-8.2	Dave Hunkele	Secured Staging Area	06/29/24 14:20	Return to Storage
JD91339-8.2	Secured Staging Area	Brianna Perez	07/01/24 06:26	Retrieve from Storage
JD91339-8.2	Brianna Perez	Secured Storage	07/01/24 13:26	Return to Storage
JD91339-8.2.1	Brianna Perez	Metals Digestion	07/01/24 13:12	Digestate from JD91339-8.2
JD91339-8.2.1	Metals Digestion	Brianna Perez	07/01/24 13:12	Digestate from JD91339-8.2
JD91339-8.2.1	Brianna Perez	Metals Digestate Storage	07/01/24 13:12	Return to Storage
JD91339-9.1	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-9.1	Secured Storage	Dave Hunkele	06/29/24 12:38	Retrieve from Storage
JD91339-9.1	Dave Hunkele	Secured Staging Area	06/29/24 12:39	Return to Storage
JD91339-9.1	Secured Staging Area	Amin Bhavin	07/01/24 06:32	Retrieve from Storage
JD91339-9.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91339-9.1	Secured Storage	Aleandi Rodriguez	07/01/24 22:52	Retrieve from Storage
stage				
JD91339-9.1	Aleandi Rodriguez	Secured Staging Area	07/01/24 22:52	Return to Storage
JD91339-9.1	Secured Staging Area	Amin Bhavin	07/02/24 06:13	Retrieve from Storage
JD91339-9.1	Amin Bhavin	Secured Storage	07/02/24 14:16	Return to Storage
JD91339-9.1	Secured Storage	Daniel Broche	07/02/24 15:14	Retrieve from Storage
JD91339-9.1	Daniel Broche	Secured Storage	07/02/24 19:28	Return to Storage
JD91339-9.1.1	Amin Bhavin	Organics Prep	07/01/24 07:34	Extract from JD91339-9.1
JD91339-9.1.1	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-9.1
JD91339-9.1.1	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-9.1.2	Amin Bhavin	Organics Prep	07/01/24 07:35	Extract from JD91339-9.1
JD91339-9.1.2	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-9.1.2	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-9.1
JD91339-9.1.3	Amin Bhavin	Organics Prep	07/02/24 06:17	Extract from JD91339-9.1

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Job Number: JD91339
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Project: Ridgewood Berm Sampling, Ridgewood, NJ
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Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91339-9.1.3	Organics Prep	Ellen Dondeo	07/02/24 21:39	Extract from JD91339-9.1
JD91339-9.1.3	Ellen Dondeo	Extract Storage	07/02/24 21:39	Return to Storage
JD91339-9.2	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-9.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91339-9.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91339-9.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91339-9.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91339-9.2	Secured Storage	Dave Hunkele	06/29/24 14:20	Retrieve from Storage
JD91339-9.2	Dave Hunkele	Secured Staging Area	06/29/24 14:20	Return to Storage
JD91339-9.2	Secured Staging Area	Brianna Perez	07/01/24 06:26	Retrieve from Storage
JD91339-9.2	Brianna Perez	Secured Storage	07/01/24 13:26	Return to Storage
JD91339-9.2.1	Brianna Perez	Metals Digestion	07/01/24 13:12	Digestate from JD91339-9.2
JD91339-9.2.1	Metals Digestion	Brianna Perez	07/01/24 13:12	Digestate from JD91339-9.2
JD91339-9.2.1	Brianna Perez	Metals Digestate Storage	07/01/24 13:12	Return to Storage
JD91339-10.1	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-10.1	Secured Storage	Dave Hunkele	06/29/24 12:38	Retrieve from Storage
JD91339-10.1	Dave Hunkele	Secured Staging Area	06/29/24 12:39	Return to Storage
JD91339-10.1	Secured Staging Area	Amin Bhavin	07/01/24 06:32	Retrieve from Storage
JD91339-10.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91339-10.1	Secured Storage	Aleandi Rodriguez	07/01/24 22:52	Retrieve from Storage
stage				
JD91339-10.1	Aleandi Rodriguez	Secured Staging Area	07/01/24 22:52	Return to Storage
JD91339-10.1	Secured Staging Area	Amin Bhavin	07/02/24 06:13	Retrieve from Storage
JD91339-10.1	Amin Bhavin	Secured Storage	07/02/24 14:16	Return to Storage
JD91339-10.1	Secured Storage	Daniel Broche	07/02/24 15:14	Retrieve from Storage
JD91339-10.1	Daniel Broche	Secured Storage	07/02/24 19:28	Return to Storage
JD91339-10.1.1	Amin Bhavin	Organics Prep	07/01/24 07:34	Extract from JD91339-10.1
JD91339-10.1.1	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-10.1
JD91339-10.1.1	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-10.1.2	Amin Bhavin	Organics Prep	07/01/24 07:35	Extract from JD91339-10.1
JD91339-10.1.2	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-10.1.2	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-10.1
JD91339-10.1.3	Amin Bhavin	Organics Prep	07/02/24 06:17	Extract from JD91339-10.1
JD91339-10.1.3	Organics Prep	Ellen Dondeo	07/02/24 21:39	Extract from JD91339-10.1
JD91339-10.1.3	Ellen Dondeo	Extract Storage	07/02/24 21:39	Return to Storage
JD91339-10.2	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-10.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
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Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91339-10.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91339-10.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91339-10.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91339-10.2	Secured Storage	Dave Hunkele	06/29/24 14:20	Retrieve from Storage
JD91339-10.2	Dave Hunkele	Secured Staging Area	06/29/24 14:20	Return to Storage
JD91339-10.2	Secured Staging Area	Brianna Perez	07/01/24 06:26	Retrieve from Storage
JD91339-10.2	Brianna Perez	Secured Storage	07/01/24 13:26	Return to Storage
JD91339-10.2.1	Brianna Perez	Metals Digestion	07/01/24 13:12	Digestate from JD91339-10.2
JD91339-10.2.1	Metals Digestion	Brianna Perez	07/01/24 13:12	Digestate from JD91339-10.2
JD91339-10.2.1	Brianna Perez	Metals Digestate Storage	07/01/24 13:12	Return to Storage
JD91339-11.1	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-11.1	Secured Storage	Dave Hunkele	06/29/24 12:38	Retrieve from Storage
JD91339-11.1	Dave Hunkele	Secured Staging Area	06/29/24 12:39	Return to Storage
JD91339-11.1	Secured Staging Area	Amin Bhavin	07/01/24 06:32	Retrieve from Storage
JD91339-11.1	Amin Bhavin	Alejandra Cruz	07/01/24 15:05	Custody Transfer
JD91339-11.1	Alejandra Cruz	Secured Storage	07/01/24 23:26	Return to Storage
JD91339-11.1	Secured Storage	Amin Bhavin	07/02/24 06:22	Retrieve from Storage
JD91339-11.1	Amin Bhavin	Secured Storage	07/02/24 14:16	Return to Storage
JD91339-11.1	Secured Storage	Daniel Broche	07/02/24 15:14	Retrieve from Storage
JD91339-11.1	Daniel Broche	Secured Storage	07/02/24 19:28	Return to Storage
JD91339-11.1.1	Amin Bhavin	Organics Prep	07/01/24 07:34	Extract from JD91339-11.1
JD91339-11.1.1	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-11.1
JD91339-11.1.1	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-11.1.2	Amin Bhavin	Organics Prep	07/01/24 07:35	Extract from JD91339-11.1
JD91339-11.1.2	Lauren Halloran	Extract Storage	07/01/24 14:15	Return to Storage
JD91339-11.1.2	Organics Prep	Lauren Halloran	07/01/24 14:15	Extract from JD91339-11.1
JD91339-11.1.3	Amin Bhavin	Organics Prep	07/02/24 06:22	Extract from JD91339-11.1
JD91339-11.1.3	Organics Prep	Ellen Dondeo	07/02/24 21:39	Extract from JD91339-11.1
JD91339-11.1.3	Ellen Dondeo	Extract Storage	07/02/24 21:39	Return to Storage
JD91339-11.2	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-11.2	Secured Storage	Dave Hunkele	06/29/24 10:13	Retrieve from Storage
JD91339-11.2	Dave Hunkele	Secured Staging Area	06/29/24 10:25	Return to Storage
JD91339-11.2	Secured Staging Area	Marcin Kotowski	06/29/24 13:20	Retrieve from Storage
JD91339-11.2	Marcin Kotowski	Secured Storage	06/29/24 13:21	Return to Storage
JD91339-11.2	Secured Storage	Dave Hunkele	06/29/24 14:20	Retrieve from Storage
JD91339-11.2	Dave Hunkele	Secured Staging Area	06/29/24 14:20	Return to Storage
JD91339-11.2	Secured Staging Area	Brianna Perez	07/01/24 06:26	Retrieve from Storage
JD91339-11.2	Brianna Perez	Secured Storage	07/01/24 13:26	Return to Storage

SGS Internal Chain of Custody

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/28/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91339-11.2.1	Brianna Perez	Metals Digestion	07/01/24 13:12	Digestate from JD91339-11.2
JD91339-11.2.1	Metals Digestion	Brianna Perez	07/01/24 13:12	Digestate from JD91339-11.2
JD91339-11.2.1	Brianna Perez	Metals Digestate Storage	07/01/24 13:12	Return to Storage
JD91339-12.1	Joe Waddington	Secured Storage	06/28/24 22:14	Return to Storage
JD91339-12.1	Secured Storage	Doaa Salem	06/30/24 04:45	Retrieve from Storage
JD91339-12.1.1	Doaa Salem	Organics Prep	06/30/24 04:54	Extract from JD91339-12.1
JD91339-12.1.1	Organics Prep	Doaa Salem	07/01/24 10:47	Extract from JD91339-12.1
JD91339-12.1.1	Doaa Salem	Extract Storage	07/01/24 10:47	Return to Storage
JD91339-12.1.1	Extract Storage	Christine Phillips	07/02/24 05:02	Retrieve from Storage
JD91339-12.1.1	Christine Phillips	GC1G	07/02/24 05:02	Load on Instrument
JD91339-12.1.2	Doaa Salem	Organics Prep	06/30/24 04:54	Extract from JD91339-12.1
JD91339-12.1.2	Organics Prep	Doaa Salem	07/01/24 10:47	Extract from JD91339-12.1
JD91339-12.1.2	Doaa Salem	Extract Storage	07/01/24 10:48	Return to Storage
JD91339-12.1.3	Doaa Salem	Organics Prep	06/30/24 05:03	Extract from JD91339-12.1
JD91339-12.1.3	Organics Prep	Angel Guzman	07/01/24 22:43	Extract from JD91339-12.1
JD91339-12.1.3	Angel Guzman	Extract Storage	07/01/24 22:43	Return to Storage
JD91339-12.2	Joe Waddington	Secured Storage	06/28/24 22:14	Return to Storage
JD91339-12.2	Secured Storage	Dave Hunkele	07/02/24 08:01	Retrieve from Storage
JD91339-12.2	Dave Hunkele	Secured Staging Area	07/02/24 08:02	Return to Storage
JD91339-12.2	Secured Staging Area	Jared O. Onindo	07/02/24 15:31	Retrieve from Storage
JD91339-12.2	Secured Storage	Dave Hunkele	07/03/24 07:03	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD91339-12.2	Dave Hunkele	Secured Staging Area	07/03/24 07:03	Return to Storage
JD91339-12.2	Secured Staging Area	Rie Iwasaki	07/03/24 08:12	Retrieve from Storage
JD91339-12.2	Rie Iwasaki	Secured Storage	07/03/24 15:26	Return to Storage
JD91339-12.3	Joe Waddington	Secured Storage	06/28/24 22:14	Return to Storage
JD91339-12.4	Joe Waddington	Secured Storage	06/28/24 22:14	Return to Storage
JD91339-12.5	Joe Waddington	Secured Storage	06/28/24 22:14	Return to Storage
JD91339-12.5	Secured Storage	Dave Hunkele	06/29/24 14:01	Retrieve from Storage
JD91339-12.5	Dave Hunkele	Secured Staging Area	06/29/24 14:02	Return to Storage
JD91339-12.5	Secured Staging Area	Marcin Kotowski	07/01/24 18:56	Retrieve from Storage
JD91339-12.5	Marcin Kotowski	Secured Storage	07/01/24 18:56	Return to Storage
JD91339-12.6	Joe Waddington	Secured Storage	06/28/24 22:14	Return to Storage
JD91339-12.6	Secured Storage	Dave Hunkele	07/02/24 10:55	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/28/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91339-12.6	Dave Hunkele	Secured Staging Area	07/02/24 10:55	Return to Storage
JD91339-12.7	Suresh Patel	Secured Storage	06/28/24 20:55	Return to Storage
JD91339-12.7	Secured Storage	Kevin Arizapana	07/01/24 14:50	Retrieve from Storage
JD91339-12.7	Kevin Arizapana	GCMS4D	07/01/24 14:50	Load on Instrument
JD91339-12.7	GCMS4D	Kevin Arizapana	07/02/24 09:23	Unload from Instrument
JD91339-12.7	Kevin Arizapana	Secured Storage	07/02/24 09:23	Return to Storage
JD91339-12.8	Suresh Patel	Secured Storage	06/28/24 20:55	Return to Storage
JD91339-13.1	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-13.1	Secured Storage	Aleandi Rodriguez	07/01/24 22:52	Retrieve from Storage
JD91339-13.1	Aleandi Rodriguez	Secured Staging Area	07/01/24 22:52	Return to Storage
JD91339-13.1	Secured Staging Area	Amin Bhavin	07/02/24 06:13	Retrieve from Storage
JD91339-13.1	Amin Bhavin	Secured Storage	07/02/24 14:16	Return to Storage
JD91339-13.1.1	Amin Bhavin	Organics Prep	07/02/24 06:39	Extract from JD91339-13.1
JD91339-13.1.1	Organics Prep	Lauren Halloran	07/02/24 14:05	Extract from JD91339-13.1
JD91339-13.1.1	Lauren Halloran	Extract Storage	07/02/24 14:05	Return to Storage
JD91339-13.1.2	Amin Bhavin	Organics Prep	07/02/24 06:43	Extract from JD91339-13.1
JD91339-13.1.2	Organics Prep	Lauren Halloran	07/02/24 14:05	Extract from JD91339-13.1
JD91339-13.1.2	Lauren Halloran		07/02/24 15:14	Depleted
JD91339-13.1.3	Amin Bhavin	Organics Prep	07/02/24 06:48	Extract from JD91339-13.1
JD91339-13.2	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-13.2	Secured Storage	Daniel Broche	07/01/24 15:16	Retrieve from Storage
JD91339-13.2	Daniel Broche	Secured Storage	07/01/24 22:47	Return to Storage
JD91339-13.2	Secured Storage	Dave Hunkele	07/02/24 04:52	Retrieve from Storage
JD91339-13.2	Dave Hunkele	Secured Staging Area	07/02/24 04:53	Return to Storage
JD91339-13.2	Secured Staging Area	Marcin Kotowski	07/02/24 17:44	Retrieve from Storage
JD91339-13.2	Marcin Kotowski	Secured Storage	07/02/24 17:44	Return to Storage
JD91339-14.1	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-14.1	Secured Storage	Amin Bhavin	07/02/24 06:37	Retrieve from Storage
JD91339-14.1	Amin Bhavin	Secured Storage	07/02/24 14:16	Return to Storage
JD91339-14.1.1	Amin Bhavin	Organics Prep	07/02/24 06:37	Extract from JD91339-14.1
JD91339-14.1.1	Lauren Halloran	Extract Storage	07/02/24 14:05	Return to Storage
JD91339-14.1.1	Organics Prep	Lauren Halloran	07/02/24 14:05	Extract from JD91339-14.1
JD91339-14.1.2	Amin Bhavin	Organics Prep	07/02/24 06:43	Extract from JD91339-14.1
JD91339-14.1.2	Organics Prep	Lauren Halloran	07/02/24 14:05	Extract from JD91339-14.1

SGS Internal Chain of Custody

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ
Received: 06/28/24

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD91339-14.1.2	Lauren Halloran		07/02/24 15:14	Depleted
JD91339-14.1.3	Amin Bhavin	Organics Prep	07/02/24 06:48	Extract from JD91339-14.1
JD91339-14.2	Suresh Patel	Secured Storage	06/28/24 22:44	Return to Storage
JD91339-14.2	Secured Storage	Daniel Broche	07/01/24 15:16	Retrieve from Storage
JD91339-14.2	Daniel Broche	Secured Storage	07/01/24 22:47	Return to Storage
JD91339-14.2	Secured Storage	Dave Hunkele	07/02/24 04:52	Retrieve from Storage
JD91339-14.2	Dave Hunkele	Secured Staging Area	07/02/24 04:53	Return to Storage
JD91339-14.2	Secured Staging Area	Marcin Kotowski	07/02/24 17:44	Retrieve from Storage
JD91339-14.2	Marcin Kotowski	Secured Storage	07/02/24 17:44	Return to Storage

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C8736-MB	1C202320.D	1	07/01/24	PS	n/a	n/a	V1C8736

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD91339-4, JD91339-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	4.1	ug/kg	
71-43-2	Benzene	ND	0.50	0.46	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.56	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.43	ug/kg	
75-25-2	Bromoform	ND	5.0	1.4	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.76	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.54	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.62	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.46	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.59	ug/kg	
67-66-3	Chloroform	ND	2.0	1.0	ug/kg	
74-87-3	Chloromethane	ND	5.0	2.0	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.66	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.56	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.42	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.55	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.49	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.73	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.47	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.66	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.61	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.47	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.48	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.46	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.45	ug/kg	
76-13-1	Freon 113	ND	5.0	2.7	ug/kg	
591-78-6	2-Hexanone	ND	5.0	2.1	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	1.4	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.88	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.47	ug/kg	

Method Blank Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C8736-MB	1C202320.D	1	07/01/24	PS	n/a	n/a	V1C8736

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD91339-4, JD91339-6

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	2.3	ug/kg	
75-09-2	Methylene chloride	ND	5.0	2.6	ug/kg	
100-42-5	Styrene	ND	2.0	0.40	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.60	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.58	ug/kg	
108-88-3	Toluene	ND	1.0	0.53	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.48	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.55	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.76	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.68	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.48	ug/kg	
	m,p-Xylene	ND	1.0	0.90	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.46	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.46	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	109%	80-124%
17060-07-0	1,2-Dichloroethane-D4	101%	75-133%
2037-26-5	Toluene-D8	103%	79-125%
460-00-4	4-Bromofluorobenzene	99%	58-148%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C8736-BS	1C202318.D	1	07/01/24	PS	n/a	n/a	V1C8736

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD91339-4, JD91339-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	200	276	138	52-156
71-43-2	Benzene	50	46.7	93	82-119
74-97-5	Bromochloromethane	50	50.8	102	82-123
75-27-4	Bromodichloromethane	50	46.8	94	83-121
75-25-2	Bromoform	50	47.2	94	74-138
74-83-9	Bromomethane	50	45.7	91	56-150
78-93-3	2-Butanone (MEK)	200	243	122	72-138
75-15-0	Carbon disulfide	50	48.0	96	67-131
56-23-5	Carbon tetrachloride	50	48.6	97	72-130
108-90-7	Chlorobenzene	50	43.1	86	83-114
75-00-3	Chloroethane	50	50.2	100	67-141
67-66-3	Chloroform	50	45.3	91	76-115
74-87-3	Chloromethane	50	51.6	103	57-141
110-82-7	Cyclohexane	50	48.8	98	69-130
96-12-8	1,2-Dibromo-3-chloropropane	50	49.9	100	72-131
124-48-1	Dibromochloromethane	50	45.6	91	80-128
106-93-4	1,2-Dibromoethane	50	46.1	92	58-145
95-50-1	1,2-Dichlorobenzene	50	41.8	84	83-117
541-73-1	1,3-Dichlorobenzene	50	41.0	82	82-114
106-46-7	1,4-Dichlorobenzene	50	41.2	82	79-114
75-71-8	Dichlorodifluoromethane	50	48.3	97	49-146
75-34-3	1,1-Dichloroethane	50	50.0	100	76-126
107-06-2	1,2-Dichloroethane	50	46.5	93	76-118
75-35-4	1,1-Dichloroethene	50	45.2	90	72-125
156-59-2	cis-1,2-Dichloroethene	50	45.5	91	80-118
156-60-5	trans-1,2-Dichloroethene	50	46.6	93	76-122
78-87-5	1,2-Dichloropropane	50	49.3	99	82-123
10061-01-5	cis-1,3-Dichloropropene	50	49.8	100	83-123
10061-02-6	trans-1,3-Dichloropropene	50	49.2	98	83-123
100-41-4	Ethylbenzene	50	42.9	86	83-115
76-13-1	Freon 113	50	46.7	93	65-132
591-78-6	2-Hexanone	200	216	108	73-138
98-82-8	Isopropylbenzene	50	41.8	84	81-122
79-20-9	Methyl Acetate	50	54.5	109	63-142
108-87-2	Methylcyclohexane	50	44.0	88	73-126
1634-04-4	Methyl Tert Butyl Ether	50	50.1	100	75-126

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C8736-BS	1C202318.D	1	07/01/24	PS	n/a	n/a	V1C8736

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD91339-4, JD91339-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	200	218	109	71-138
75-09-2	Methylene chloride	50	47.3	95	73-122
100-42-5	Styrene	50	45.8	92	84-122
79-34-5	1,1,2,2-Tetrachloroethane	50	47.7	95	75-127
127-18-4	Tetrachloroethene	50	41.5	83	73-125
108-88-3	Toluene	50	42.1	84	82-118
87-61-6	1,2,3-Trichlorobenzene	50	45.7	91	68-132
120-82-1	1,2,4-Trichlorobenzene	50	44.0	88	72-133
71-55-6	1,1,1-Trichloroethane	50	47.0	94	77-124
79-00-5	1,1,2-Trichloroethane	50	47.8	96	83-122
79-01-6	Trichloroethene	50	44.9	90	80-122
75-69-4	Trichlorofluoromethane	50	49.6	99	69-132
75-01-4	Vinyl chloride	50	54.8	110	60-144
	m,p-Xylene	100	85.0	85	82-119
95-47-6	o-Xylene	50	44.6	89	84-120
1330-20-7	Xylene (total)	150	130	87	83-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	108%	80-124%
17060-07-0	1,2-Dichloroethane-D4	102%	75-133%
2037-26-5	Toluene-D8	94%	79-125%
460-00-4	4-Bromofluorobenzene	97%	58-148%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD91336-2MS	1C202328.D	1	07/01/24	PS	n/a	n/a	V1C8736
JD91336-2	1C202321.D	1	07/01/24	PS	n/a	n/a	V1C8736

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD91339-4, JD91339-6

CAS No.	Compound	JD91336-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
67-64-1	Acetone	7.5	J	225	240	103	10-170
71-43-2	Benzene	ND		56.4	53.0	94	61-132
74-97-5	Bromochloromethane	ND		56.4	53.9	96	68-126
75-27-4	Bromodichloromethane	ND		56.4	52.9	94	65-129
75-25-2	Bromoform	ND		56.4	47.9	85	52-136
74-83-9	Bromomethane	ND		56.4	48.9	87	23-158
78-93-3	2-Butanone (MEK)	ND		225	205	91	45-142
75-15-0	Carbon disulfide	ND		56.4	51.4	91	50-140
56-23-5	Carbon tetrachloride	ND		56.4	54.9	97	54-139
108-90-7	Chlorobenzene	ND		56.4	51.4	91	57-127
75-00-3	Chloroethane	ND		56.4	57.0	101	30-157
67-66-3	Chloroform	ND		56.4	51.4	91	59-127
74-87-3	Chloromethane	ND		56.4	60.9	108	49-145
110-82-7	Cyclohexane	ND		56.4	51.7	92	39-147
96-12-8	1,2-Dibromo-3-chloropropane	ND		56.4	46.8	83	35-140
124-48-1	Dibromochloromethane	ND		56.4	51.1	91	63-129
106-93-4	1,2-Dibromoethane	ND		56.4	48.4	86	45-141
95-50-1	1,2-Dichlorobenzene	ND		56.4	46.2	82	38-136
541-73-1	1,3-Dichlorobenzene	ND		56.4	44.8	79	37-135
106-46-7	1,4-Dichlorobenzene	ND		56.4	45.1	80	36-134
75-71-8	Dichlorodifluoromethane	ND		56.4	58.8	104	33-152
75-34-3	1,1-Dichloroethane	ND		56.4	56.4	100	68-131
107-06-2	1,2-Dichloroethane	ND		56.4	50.4	89	64-119
75-35-4	1,1-Dichloroethene	ND		56.4	50.1	89	60-133
156-59-2	cis-1,2-Dichloroethene	ND		56.4	50.7	90	58-133
156-60-5	trans-1,2-Dichloroethene	ND		56.4	51.3	91	62-130
78-87-5	1,2-Dichloropropane	ND		56.4	56.2	100	70-127
10061-01-5	cis-1,3-Dichloropropene	ND		56.4	41.7	74	64-126
10061-02-6	trans-1,3-Dichloropropene	ND		56.4	41.7	74	61-127
100-41-4	Ethylbenzene	ND		56.4	49.7	88	51-133
76-13-1	Freon 113	ND		56.4	48.5	86	46-138
591-78-6	2-Hexanone	ND		225	203	90	45-144
98-82-8	Isopropylbenzene	ND		56.4	49.0	87	44-142
79-20-9	Methyl Acetate	ND		56.4	40.4	72	14-192
108-87-2	Methylcyclohexane	ND		56.4	42.2	75	27-149
1634-04-4	Methyl Tert Butyl Ether	ND		56.4	50.3	89	62-125

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD91336-2MS	1C202328.D	1	07/01/24	PS	n/a	n/a	V1C8736
JD91336-2	1C202321.D	1	07/01/24	PS	n/a	n/a	V1C8736

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD91339-4, JD91339-6

CAS No.	Compound	JD91336-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		225	196	87	50-138
75-09-2	Methylene chloride	ND		56.4	51.6	92	63-127
100-42-5	Styrene	ND		56.4	52.9	94	48-143
79-34-5	1,1,2,2-Tetrachloroethane	ND		56.4	19.4	34* [a]	44-135
127-18-4	Tetrachloroethene	ND		56.4	49.0	87	38-146
108-88-3	Toluene	ND		56.4	49.7	88	56-135
87-61-6	1,2,3-Trichlorobenzene	ND		56.4	39.7	70	10-153
120-82-1	1,2,4-Trichlorobenzene	ND		56.4	38.2	68	10-158
71-55-6	1,1,1-Trichloroethane	ND		56.4	53.7	95	61-134
79-00-5	1,1,2-Trichloroethane	ND		56.4	52.2	93	62-133
79-01-6	Trichloroethene	ND		56.4	79.3	141	52-144
75-69-4	Trichlorofluoromethane	ND		56.4	57.6	102	50-141
75-01-4	Vinyl chloride	ND		56.4	65.5	116	48-151
	m,p-Xylene	ND		113	102	90	51-135
95-47-6	o-Xylene	ND		56.4	51.3	91	52-137
1330-20-7	Xylene (total)	ND		169	153	90	50-138

CAS No.	Surrogate Recoveries	MS	JD91336-2	Limits
1868-53-7	Dibromofluoromethane	103%	114%	80-124%
17060-07-0	1,2-Dichloroethane-D4	98%	104%	75-133%
2037-26-5	Toluene-D8	101%	102%	79-125%
460-00-4	4-Bromofluorobenzene	98%	94%	58-148%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD91336-4DUP	1C202329.D	1	07/01/24	PS	n/a	n/a	V1C8736
JD91336-4	1C202322.D	1	07/01/24	PS	n/a	n/a	V1C8736

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD91339-4, JD91339-6

CAS No.	Compound	JD91336-4 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	50
71-43-2	Benzene	ND		ND		nc	44
74-97-5	Bromochloromethane	ND		ND		nc	30
75-27-4	Bromodichloromethane	ND		ND		nc	22
75-25-2	Bromoform	ND		ND		nc	30
74-83-9	Bromomethane	ND		ND		nc	10
78-93-3	2-Butanone (MEK)	ND		ND		nc	15
75-15-0	Carbon disulfide	ND		ND		nc	43
56-23-5	Carbon tetrachloride	ND		ND		nc	38
108-90-7	Chlorobenzene	ND		ND		nc	11
75-00-3	Chloroethane	ND		ND		nc	10
67-66-3	Chloroform	ND		ND		nc	14
74-87-3	Chloromethane	ND		ND		nc	30
110-82-7	Cyclohexane	ND		ND		nc	44
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	30
124-48-1	Dibromochloromethane	ND		ND		nc	10
106-93-4	1,2-Dibromoethane	ND		ND		nc	30
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	10
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	30
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	10
75-71-8	Dichlorodifluoromethane	ND		ND		nc	30
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	10
75-35-4	1,1-Dichloroethene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	36
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	14
78-87-5	1,2-Dichloropropane	ND		ND		nc	30
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	30
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	30
100-41-4	Ethylbenzene	ND		ND		nc	35
76-13-1	Freon 113	ND		ND		nc	10
591-78-6	2-Hexanone	ND		ND		nc	10
98-82-8	Isopropylbenzene	ND		ND		nc	28
79-20-9	Methyl Acetate	ND		ND		nc	37
108-87-2	Methylcyclohexane	ND		ND		nc	43
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	21

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD91336-4DUP	1C202329.D	1	07/01/24	PS	n/a	n/a	V1C8736
JD91336-4	1C202322.D	1	07/01/24	PS	n/a	n/a	V1C8736

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD91339-4, JD91339-6

CAS No.	Compound	JD91336-4 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	10
75-09-2	Methylene chloride	ND		ND		nc	10
100-42-5	Styrene	ND		ND		nc	10
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	10
127-18-4	Tetrachloroethene	ND		ND		nc	43
108-88-3	Toluene	ND		ND		nc	37
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	30
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	10
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	21
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	10
79-01-6	Trichloroethene	ND		ND		nc	44
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	22
	m,p-Xylene	ND		ND		nc	44
95-47-6	o-Xylene	ND		ND		nc	45
1330-20-7	Xylene (total)	ND		ND		nc	60

CAS No.	Surrogate Recoveries	DUP	JD91336-4	Limits
1868-53-7	Dibromofluoromethane	108%	106%	80-124%
17060-07-0	1,2-Dichloroethane-D4	105%	103%	75-133%
2037-26-5	Toluene-D8	98%	102%	79-125%
460-00-4	4-Bromofluorobenzene	97%	104%	58-148%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: V1C8714-BFB
Lab File ID: 1C201727.D
Instrument ID: GCMS1C
Injection Date: 06/01/24
Injection Time: 13:33

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	24861	22.3		Pass
75	30.0 - 60.0% of mass 95	52472	47.1		Pass
95	Base peak, 100% relative abundance	111477	100.0		Pass
96	5.0 - 9.0% of mass 95	7600	6.82		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	110733	99.3		Pass
175	5.0 - 9.0% of mass 174	8868	7.96	(8.01) [a]	Pass
176	95.0 - 101.0% of mass 174	105568	94.7	(95.3) [a]	Pass
177	5.0 - 9.0% of mass 176	7008	6.29	(6.64) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1C8714-IC8714	1C201728.D	06/01/24	14:12	00:39	Initial cal 0.2
V1C8714-IC8714	1C201729.D	06/01/24	14:39	01:06	Initial cal 0.5
V1C8714-IC8714	1C201730.D	06/01/24	15:05	01:32	Initial cal 1
V1C8714-IC8714	1C201731.D	06/01/24	15:31	01:58	Initial cal 2
V1C8714-IC8714	1C201732.D	06/01/24	15:57	02:24	Initial cal 4
V1C8714-IC8714	1C201733.D	06/01/24	16:23	02:50	Initial cal 8
V1C8714-IC8714	1C201734.D	06/01/24	16:50	03:17	Initial cal 20
V1C8714-ICC8714	1C201735.D	06/01/24	17:16	03:43	Initial cal 50
V1C8714-IC8714	1C201736.D	06/01/24	17:42	04:09	Initial cal 100
V1C8714-IC8714	1C201737.D	06/01/24	18:08	04:35	Initial cal 200
V1C8714-ICV8714	1C201740.D	06/01/24	19:27	05:54	Initial cal verification 50
V1C8714-ICV8714	1C201741.D	06/01/24	19:53	06:20	Initial cal verification 50

Internal Standard Area Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	V1C8736-CC8714	**Injection Date:**	07/01/24
Lab File ID:	1C202317.D	**Injection Time:**	11:36
Instrument ID:	GCMS1C	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	75086	7.03	201842	9.28	335036	10.19	303134	13.36	172381	15.68
Upper Limit [a]	150172	7.53	403684	9.78	670072	10.69	606268	13.86	344762	16.18
Lower Limit [b]	37543	6.53	100921	8.78	167518	9.69	151567	12.86	86191	15.18

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V1C8736-BS	79860	7.03	218717	9.27	361342	10.19	330526	13.36	190354	15.68
ZZZZZZ	74282	7.03	224294	9.28	363769	10.19	308896	13.36	176745	15.68
V1C8736-MB	74282	7.03	224294	9.28	363769	10.19	308896	13.36	176745	15.68
JD91336-2	74096	7.03	216588	9.28	360711	10.19	314838	13.36	182233	15.68
JD91336-4	64859	7.03	224157	9.28	350784	10.19	311083	13.36	164438	15.68
ZZZZZZ	69669	7.03	211675	9.28	346591	10.19	314747	13.36	175637	15.68
ZZZZZZ	75820	7.03	217097	9.28	346966	10.19	327340	13.36	176511	15.68
ZZZZZZ	74469	7.03	224119	9.28	349958	10.19	316756	13.36	174854	15.68
ZZZZZZ	72925	7.03	211325	9.28	356595	10.19	302862	13.36	168030	15.68
ZZZZZZ	71138	7.03	214238	9.28	350041	10.19	289765	13.36	176808	15.68
JD91336-2MS	60972	7.04	220855	9.28	349601	10.19	301020	13.36	175305	15.68
JD91336-4DUP	69084	7.03	228198	9.28	361716	10.19	323778	13.36	181634	15.68
ZZZZZZ	68410	7.03	223923	9.28	361266	10.19	317362	13.36	175570	15.68
ZZZZZZ	60603	7.03	220131	9.28	344870	10.19	309936	13.36	168329	15.68
ZZZZZZ	68125	7.03	217699	9.28	344837	10.19	306321	13.36	167324	15.68
JD91339-4	71447	7.03	207619	9.28	337895	10.19	289390	13.36	162354	15.68
JD91339-6	67620	7.03	210416	9.28	335555	10.19	295063	13.36	159893	15.68
ZZZZZZ	70822	7.03	214086	9.28	345699	10.19	304091	13.36	170137	15.68
ZZZZZZ	71012	7.04	210770	9.28	342425	10.19	298785	13.36	165079	15.68
ZZZZZZ	70380	7.03	206191	9.28	337409	10.19	293640	13.36	163155	15.68
ZZZZZZ	70613	7.03	210702	9.28	334689	10.19	284456	13.36	159449	15.68
ZZZZZZ	69423	7.03	208875	9.28	324488	10.19	296915	13.36	152737	15.68
ZZZZZZ	72752	7.03	208226	9.28	325004	10.19	292246	13.36	161850	15.68
ZZZZZZ	69812	7.03	227286	9.28	358542	10.19	320161	13.36	178395	15.68
ZZZZZZ	72903	7.03	200512	9.28	320076	10.19	271316	13.36	128391	15.68

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8260D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD91339-4	1C202333.D	107	102	102	103
JD91339-6	1C202334.D	106	103	105	105
JD91336-2MS	1C202328.D	103	98	101	98
JD91336-4DUP	1C202329.D	108	105	98	97
V1C8736-BS	1C202318.D	108	102	94	97
V1C8736-MB	1C202320.D	109	101	103	99

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-124%
S2 = 1,2-Dichloroethane-D4	75-133%
S3 = Toluene-D8	79-125%
S4 = 4-Bromofluorobenzene	58-148%

Initial Calibration Summary

Job Number: JD91339 **Sample:** V1C8714-ICC8714
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1C201735.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Response Factor Report GCMS1C

Method : C:\MSDCHEM\1\METHODS\M1C8714.M (RTE Integrator)
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Mon Jun 10 10:32:44 2024
Response via : Initial Calibration

Calibration Files
Calibration Files
1 =1C201730.D 0.5 =1C201729.D 100 =1C201736.D 50 =1C201735.D
20 =1C201734.D 200 =1C201737.D 4 =1C201732.D 2 =1C201731.D
8 =1C201733.D 0.2 =1C201728.D = = = =

Compound	1	0.5	100	50	20	200	4	2	8	0.2	Avg	%RSD
1) tert butyl alcohol-d9	----------ISTD----------											
2) tertiary butyl alcohol	1.152	1.118	1.212	1.116	1.119	1.146	1.177	1.049			1.136	4.24
3) ethanol	0.108	0.129	0.138	0.127	0.136	0.122	0.127	0.114			0.125	8.07
4) 1,4-dioxane		0.102	0.107	0.100	0.104	0.088	0.083	0.095			0.097	9.01
5) I pentafluorobenzene	----------ISTD----------											
6) dichlorodifluoromethane	0.575	0.501	0.558	0.600	0.554	0.530	0.559	0.579	0.548	0.559	0.556	4.90
7) chlorodifluoromethane	0.705	0.735	0.670	0.721	0.663	0.635	0.693	0.728	0.655		0.689	5.14
8) chloromethane	0.863	0.851	0.719	0.778	0.755	0.663	0.785	0.853	0.789		0.784	8.48
9) vinyl chloride	0.599	0.486	0.608	0.635	0.598	0.566	0.602	0.609	0.603	0.580	0.589	6.86
10) 1,3-butadiene	0.462	0.477	0.470	0.488	0.487	0.445	0.481	0.501	0.477	0.474	0.476	3.19
11) bromomethane		0.336	0.338	0.345	0.328	0.436	0.457	0.388			0.375	14.04
12) chloroethane	0.261	0.260	0.273	0.251	0.246	0.262	0.257	0.252			0.258	3.24
13) trichlorofluoromethane	0.698	0.519	0.670	0.721	0.663	0.643	0.652	0.685	0.679	0.707	0.664	8.50
14) ethyl ether	0.124	0.166	0.169	0.157	0.159	0.156	0.139	0.143			0.152	10.03
15) acrolein		0.046	0.052	0.045	0.048	0.037		0.035			0.044	14.83
16) freon 113	0.309	0.282	0.330	0.349	0.328	0.315	0.345	0.338	0.309		0.323	6.54
17) 1,1-dichloroethene	0.379	0.384	0.326	0.340	0.318	0.313	0.352	0.360	0.317		0.343	7.81
18) acetone		0.029	0.031	0.027	0.025	0.026	0.026	0.025			0.027	8.25
19) acetonitrile		0.047	0.049	0.045	0.043	0.049	0.043	0.045			0.046	5.25
20) iodomethane		0.544	0.527	0.326	0.542	0.104		0.170			0.369	53.78
	----- Linear regression ----- Coefficient = 0.9955											
	Response Ratio = -0.04852 + 0.55476 *A											
21) carbon disulfide												

1.348 1.507 1.219 1.271 1.203 1.189 1.262 1.261 1.160 1.269 8.26
22) methylene chloride
0.436 0.456 0.368 0.381 0.357 0.357 0.403 0.415 0.357 0.392 9.50
23) methyl acetate
0.044 0.043 0.038 0.038 0.030 0.035 0.038 12.75
24) methyl tert butyl ether
0.817 0.879 0.911 0.925 0.866 0.892 0.899 0.832 0.813 0.870 4.72
25) trans-1,2-dichloroethene
0.420 0.441 0.379 0.392 0.367 0.367 0.397 0.400 0.367 0.364 0.389 6.62
26) di-isopropyl ether
1.390 1.375 1.545 1.611 1.422 1.537 1.467 1.428 1.369 1.290 1.444 6.73
27) 2-butanone
0.033 0.035 0.030 0.032 0.029 0.021 0.026 0.029 15.91
28) 1,1-dichloroethane
0.702 0.712 0.752 0.797 0.725 0.759 0.742 0.750 0.700 0.738 4.27
29) chloroprene
0.573 0.601 0.685 0.698 0.640 0.647 0.643 0.640 0.632 0.640 5.93
30) acrylonitrile
0.120 0.123 0.109 0.116 0.097 0.097 0.110 10.32
31) hexane
0.670 0.793 0.661 0.711 0.640 0.646 0.653 0.679 0.620 0.675 7.59
32) vinyl acetate
0.041 0.050 0.038 0.049 0.034 0.033 0.041 18.32
33) ethyl tert-butyl ether
1.027 1.102 1.243 1.257 1.126 1.218 1.150 1.120 1.067 1.146 6.91
34) ethyl acetate
0.055 0.060 0.054 0.055 0.053 0.054 0.055 4.17
35) 2,2-dichloropropane
0.576 0.615 0.617 0.649 0.587 0.599 0.611 0.605 0.555 0.602 4.44
36) cis-1,2-dichloroethene
0.446 0.507 0.423 0.441 0.397 0.408 0.420 0.432 0.387 0.429 8.16
37) methyl acrylate
0.048 0.047 0.040 0.043 0.030 0.031 0.040 19.13
38) propionitrile
0.038 0.047 0.049 0.043 0.044 0.044 0.041 0.039 0.043 8.62
39) bromochloromethane
0.191 0.150 0.192 0.202 0.192 0.185 0.189 0.189 0.176 0.185 7.97
40) tetrahydrofuran
0.116 0.122 0.111 0.107 0.124 0.133 0.112 0.118 7.48
41) chloroform
0.662 0.479 0.491 0.462 0.463 0.525 0.556 0.466 0.513 13.40
42) t-butyl formate *This compound fails initial calibration criteria.*
0.140 0.140 0.123 0.142 0.125 0.115 0.114 0.129 9.41
43) dibromofluoromethane (s)
0.512 0.503 0.512 0.527 0.502 0.525 0.524 0.515 0.512 0.487 0.512 2.38
44) methacrylonitrile
0.119 0.119 0.111 0.114 0.099 0.097 0.101 0.109 8.54
45) 1,1,1-trichloroethane
0.629 0.649 0.623 0.668 0.611 0.620 0.633 0.643 0.609 0.632 3.00
46) cyclohexane
0.468 0.506 0.556 0.498 0.509 0.485 0.522 0.492 0.505 5.23
47) 1,1-dichloropropene
0.499 0.584 0.544 0.579 0.526 0.528 0.523 0.529 0.512 0.536 5.34
48) iso-butyl alcohol
0.017 0.017 0.015 0.016 0.017 0.017 0.016 0.016 5.25
49) carbon tetrachloride
0.569 0.554 0.612 0.658 0.591 0.592 0.605 0.602 0.574 0.527 0.588 6.04
50) tert amyl alcohol
0.012 0.014 0.013 0.012 0.013 0.012 0.013 0.013 5.83

Initial Calibration Summary

Job Number: JD91339 **Sample:** V1C8714-ICC8714
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1C201735.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

51) I 1,4-difluorobenzene ----------ISTD----------
52) 1,2-dichloroethane-d4 (s)
0.317 0.334 0.323 0.333 0.332 0.324 0.331 0.331 0.336 0.327 0.329 1.80
53) n-butyl alcohol
0.006 0.006 0.006 0.006 0.005 0.005 0.005 0.006# 8.80
54) 2,2,4-trimethylpentane
1.096 1.262 1.086 1.120 1.078 1.077 1.095 1.095 1.035 1.105 5.73
55) benzene
0.929 0.951 0.971 0.995 0.948 0.942 0.938 0.929 0.890 0.969 0.946 3.04
56) tert-amyl methyl ether
0.112 0.145 0.151 0.140 0.141 0.133 0.129 0.127 0.135 8.97
57) heptane
0.190 0.204 0.191 0.203 0.202 0.187 0.191 0.189 0.193 0.195 3.39
58) isopropyl acetate
0.031 0.035 0.031 0.031 0.029 0.028 0.031 8.13
59) 1,2-dichloroethane
0.377 0.411 0.344 0.365 0.349 0.327 0.346 0.376 0.325 0.358 7.67
60) trichloroethene
0.266 0.255 0.275 0.277 0.270 0.270 0.270 0.272 0.260 0.245 0.266 3.76
61) ethyl acrylate
0.271 0.278 0.254 0.271 0.252 0.251 0.238 0.259 5.54
62) 2-nitropropane
0.410 0.512 0.479 0.453 0.511 0.452 0.442 0.424 0.460 8.17
63) 2-chloroethyl vinyl ether
0.074 0.069 0.110 0.100 0.095 0.111 0.087 0.083 0.087 0.091 16.36
64) methyl methacrylate
0.045 0.044 0.043 0.042 0.035 0.038 0.041 9.38
65) 1,2-dichloropropane
0.237 0.233 0.270 0.269 0.266 0.261 0.257 0.265 0.251 0.257 5.28
66) dibromomethane
0.141 0.158 0.152 0.156 0.150 0.147 0.151 0.146 0.145 0.149 3.71
67) methylcyclohexane
0.360 0.408 0.382 0.404 0.392 0.384 0.387 0.372 0.372 0.385 4.09
68) bromodichloromethane
0.321 0.362 0.348 0.345 0.340 0.336 0.346 0.349 0.324 0.391 0.346 5.69
69) epichlorohydrin
0.020 0.020 0.019 0.019 0.020 0.018 0.018 0.019 4.11
70) cis-1,3-dichloropropene
0.356 0.385 0.413 0.421 0.398 0.397 0.394 0.373 0.371 0.339 0.385 6.56
71) 4-methyl-2-pentanone
0.065 0.069 0.081 0.082 0.076 0.074 0.074 0.071 0.070 0.073 7.56
72) 3-methyl-1-butanol
0.011 0.011 0.010 0.010 0.010 0.009 0.010 0.010 5.75

73) I chlorobenzene-d5 ----------ISTD----------
74) toluene-d8 (s)
1.295 1.239 1.297 1.377 1.257 1.248 1.281 1.296 1.343 1.319 1.295 3.31
75) toluene
0.667 0.692 0.694 0.737 0.669 0.680 0.678 0.679 0.679 0.797 0.697 5.80
76) trans-1,3-dichloropropene
0.364 0.352 0.427 0.450 0.393 0.406 0.383 0.370 0.394 0.393 7.86
77) ethyl methacrylate
0.227 0.290 0.296 0.263 0.278 0.247 0.260 0.256 0.265 8.60
78) 1,1,2-trichloroethane
0.181 0.177 0.201 0.215 0.197 0.195 0.186 0.207 0.194 0.195 6.21
79) tetrachloroethene
0.270 0.270 0.282 0.309 0.268 0.273 0.264 0.280 0.264 0.274 0.275 4.81
80) 1,3-dichloropropane
0.328 0.336 0.375 0.397 0.345 0.354 0.344 0.341 0.337 0.351 6.19
81) 2-hexanone

0.075 0.081 0.097 0.103 0.088 0.090 0.084 0.081 0.084 0.087 9.85

82) butyl acetate
0.136 0.155 0.166 0.145 0.147 0.146 0.124 0.143 0.145 8.57

83) dibromochloromethane
0.296 0.317 0.334 0.340 0.303 0.324 0.307 0.327 0.307 0.282 0.314 5.73

84) 1,2-dibromoethane
0.230 0.244 0.251 0.263 0.243 0.242 0.230 0.238 0.235 0.242 4.30

85) n-butyl ether
1.302 1.383 1.432 1.495 1.385 1.353 1.289 1.369 1.338 1.432 1.378 4.57

86) chlorobenzene
0.771 0.764 0.788 0.846 0.766 0.763 0.743 0.826 0.755 0.889 0.791 5.96

87) 1,1,1,2-tetrachloroethane
0.303 0.285 0.315 0.325 0.282 0.293 0.285 0.284 0.290 0.260 0.292 6.30

88) ethylbenzene
1.297 1.356 1.415 1.426 1.282 1.315 1.303 1.389 1.320 1.606 1.371 7.06

89) m,p-xylene
0.454 0.488 0.505 0.533 0.460 0.475 0.469 0.514 0.469 0.534 0.490 6.03

90) o-xylene
0.454 0.428 0.476 0.511 0.450 0.468 0.466 0.471 0.458 0.524 0.471 6.03

91) styrene
0.693 0.698 0.802 0.850 0.755 0.815 0.769 0.768 0.773 0.703 0.763 6.89

92) bromoform
0.201 0.231 0.237 0.249 0.219 0.231 0.224 0.216 0.215 0.225 6.17

93) butyl acrylate
0.466 0.470 0.548 0.563 0.505 0.506 0.505 0.509 0.495 0.507 6.25

94) isopropylbenzene
1.138 1.111 1.192 1.256 1.140 1.112 1.103 1.149 1.133 1.264 1.160 5.04

95) cis-1,4-dichloro-2-butene
0.103 0.109 0.094 0.098 0.093 0.084 0.097 0.097 8.27

96) I 1,4-dichlorobenzene-d ----------ISTD----------

97) 4-bromofluorobenzene (s)
0.844 0.883 0.890 0.859 0.824 0.820 0.779 0.824 0.851 0.867 0.844 3.94

98) bromobenzene
0.630 0.633 0.675 0.698 0.653 0.637 0.611 0.657 0.631 0.637 0.646 3.92

99) 1,1,2,2-tetrachloroethane
0.494 0.579 0.564 0.569 0.525 0.513 0.478 0.527 0.483 0.505 0.524 6.91

100) trans-1,4-dichloro-2-butene
0.152 0.178 0.186 0.166 0.163 0.158 0.149 0.161 0.164 7.58

101) 1,2,3-trichloropropane
0.100 0.115 0.125 0.115 0.107 0.105 0.110 0.108 0.111 6.98

102) n-propylbenzene
2.739 3.125 2.846 2.948 2.768 2.711 2.591 2.810 2.681 3.350 2.857 8.01

103) 2-chlorotoluene
0.584 0.611 0.575 0.610 0.565 0.522 0.522 0.604 0.541 0.639 0.577 6.91

104) 4-chlorotoluene
1.806 1.732 1.708 1.719 1.660 1.573 1.609 1.837 1.575 1.691 5.61

105) 1,3,5-trimethylbenzene
1.900 1.953 1.925 2.036 1.853 1.748 1.693 1.898 1.750 2.307 1.906 9.22

106) tert-butylbenzene
0.271 0.319 0.311 0.333 0.303 0.302 0.298 0.286 0.314 0.304 6.04

107) 1,2,4-trimethylbenzene
1.846 2.087 1.971 1.869 1.914 1.801 1.844 1.947 1.734 1.890 5.48

108) sec-butylbenzene
2.508 2.751 2.496 2.622 2.472 2.344 2.290 2.426 2.344 2.905 2.516 7.70

109) 1,3-dichlorobenzene
1.151 1.287 1.245 1.235 1.152 1.130 1.122 1.280 1.114 1.377 1.209 7.34

110) p-isopropyltoluene
2.031 2.293 2.112 2.138 2.046 1.919 1.944 2.001 1.943 2.047 5.81

111) 1,2,3-trimethylbenzene

Initial Calibration Summary

Job Number: JD91339 **Sample:** V1C8714-ICC8714
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1C201735.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

```
       1.920 2.119 1.938 1.930 1.888 1.851 1.865 1.897 1.756        1.907    5.07
112)  1,4-dichlorobenzene
       1.297 1.398 1.210 1.217 1.217 1.140 1.227 1.368 1.132        1.245    7.41
113)  benzyl chloride
       0.909 0.965 0.990 1.006 0.907 0.886 0.901 0.896 0.841        0.922    5.80
114)  1,2-dichlorobenzene
       1.125 1.131 1.131 1.178 1.101 1.072 1.078 1.150 1.009 1.343  1.132    7.76
115)  n-butylbenzene
       1.075 1.252 1.121 1.225 1.082 1.044 1.025 1.196 0.997        1.113    8.23
116)  1,2-dibromo-3-chloropropane
       0.112       0.101 0.108 0.100 0.093 0.101 0.106 0.093        0.102    6.77
117)  1,3,5-trichlorobenzene
       1.017 1.112 0.979 1.056 0.954 0.927 0.916 0.996 0.895        0.984    7.15
118)  1,2,4-trichlorobenzene
       0.835 0.883 0.792 0.828 0.786 0.720 0.701 0.842 0.692        0.786    8.68
119)  hexachlorobutadiene
       0.596 0.591 0.538 0.565 0.534 0.488 0.515 0.572 0.520        0.547    6.72
120)  naphthalene
       1.288 1.456 1.391 1.433 1.238 1.179 1.140 1.255 1.177        1.284    9.11
121)  1,2,3-trichlorobenzene
       0.714 0.814 0.712 0.767 0.673 0.632 0.672 0.751 0.644        0.709    8.47
122)  hexachloroethane
       0.354 0.422 0.482 0.480 0.424 0.464 0.406 0.441 0.402        0.431    9.60
123)  2-methylnaphthalene
                   0.723 0.625 0.460 0.728 0.322       0.356        0.536   33.78
             ----- Linear regression -----  Coefficient =  0.9948
               Response Ratio = -0.02486 + 0.72625 *A


124)     pentafluorobenzene(a) ----------------ISTD----------------------
125)  vinyl bromide
       0.310       0.361 0.345 0.335 0.360 0.335 0.313 0.343        0.338    5.61

126)     1,4-dichlorobenzene-d ----------------ISTD----------------------
127)  pentachloroethane
                                                                    0.000#  -1.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M1C8714.M         Mon Jun 10 10:37:30 2024
```

Initial Calibration Verification

Job Number: JD91339 **Sample:** V1C8714-ICV8714
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1C201740.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V1C8714\1C201740.D Vial: 15
Acq On : 1 Jun 2024 7:27 pm Operator: PrashanS
Sample : ICV8714-50 Inst : GCMS1C
Misc : MS81356,V1C8714,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1C8714.M (RTE Integrator)
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Mon Jun 03 10:57:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	102	0.00	7.04
2	M	tertiary butyl alcohol	1.136	1.238	-9.0	104	0.00	7.15
3		ethanol	0.125	0.140	-12.0	104	-0.01	5.80
4	M	1,4-dioxane	0.097	0.113	-16.5	108	0.00	10.93
5	I	pentafluorobenzene	1.000	1.000	0.0	107	0.00	9.28
6	M	dichlorodifluoromethane	0.556	0.571	-2.7	102	0.00	3.66
7		chlorodifluoromethane		----------NA----------				
8	M	chloromethane	0.784	0.799	-1.9	110	0.00	4.05
9	M	vinyl chloride	0.589	0.651	-10.5	110	0.00	4.27
10		1,3-butadiene	0.476	0.445	6.5	98	0.00	4.34
11	M	bromomethane	0.375	0.377	-0.5	120	0.01	4.92
12	M	chloroethane	0.258	0.275	-6.6	108	0.00	5.09
13	M	trichlorofluoromethane	0.664	0.707	-6.5	105	0.00	5.52
14	M	ethyl ether	0.152	0.164	-7.9	104	0.00	5.96
15	M	acrolein	0.044	0.052	-18.2	107	0.01	6.22
16		freon 113	0.323	0.342	-5.9	105	0.00	6.31
17	M	1,1-dichloroethene	0.343	0.347	-1.2	109	0.00	6.36
18	M	acetone	0.027	0.027	0.0	95	0.00	6.43
19	M	acetonitrile		----------NA----------				
		----------	True	Calc.	% Drift	----------		
20	M	iodomethane	50.000	43.088	13.8	87	0.00	6.64
		----------	AvgRF	CCRF	% Dev	----------		
21	M	carbon disulfide	1.269	1.200	5.4	101	0.00	6.76
22	M	methylene chloride	0.392	0.386	1.5	108	0.00	7.09
23	M	methyl acetate	0.038	0.046	-21.1	115	0.00	6.88
24	M	methyl tert butyl ether	0.870	0.961	-10.5	111	0.00	7.39
25	M	trans-1,2-dichloroethene	0.389	0.394	-1.3	108	0.00	7.45
26	M	di-isopropyl ether	1.444	1.583	-9.6	105	0.00	7.99
27	M	2-butanone	0.029	0.034	-17.2	103	0.00	8.73
28	M	1,1-dichloroethane	0.738	0.792	-7.3	106	0.00	8.02
29	M	chloroprene	0.640	0.723	-13.0	111	0.00	8.13
30	M	acrylonitrile	0.110	0.125	-13.6	109	0.00	7.42
31		hexane	0.675	0.731	-8.3	110	0.00	7.75
32	M	vinyl acetate	0.041	0.044	-7.3	95	0.00	8.01
33	M	ethyl tert-butyl ether	1.146	1.252	-9.2	107	0.00	8.45
34	M	ethyl acetate	0.055	0.056	-1.8	100	0.00	8.74
35	M	2,2-dichloropropane	0.602	0.661	-9.8	109	0.00	8.75
36	M	cis-1,2-dichloroethene	0.429	0.450	-4.9	109	0.00	8.76
37		methyl acrylate	0.040	0.048	-20.0	109	0.00	8.83

Initial Calibration Verification

Job Number: JD91339 **Sample:** V1C8714-ICV8714
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1C201740.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

38	M	propionitrile	0.043	0.047	-9.3	103	0.00	8.83
39	M	bromochloromethane	0.185	0.211	-14.1	111	0.00	9.07
40	M	tetrahydrofuran	0.118	0.114	3.4	100	0.00	9.11
41	M	chloroform	0.513	0.503	1.9	110	0.00	9.13
42	M	t-butyl formate	0.129	0.083	35.7#	63	0.00	9.15
43	S	dibromofluoromethane (s)	0.512	0.520	-1.6	105	0.00	9.33
44	M	methacrylonitrile	0.109	0.123	-12.8	111	0.00	9.02
45	M	1,1,1-trichloroethane	0.632	0.691	-9.3	111	0.00	9.37
46		cyclohexane	0.505	0.586	-16.0	113	0.00	9.43
47		1,1-dichloropropene	0.536	0.583	-8.8	108	0.00	9.55
48		iso-butyl alcohol	0.016	0.016	0.0	98	0.00	9.57
49		carbon tetrachloride	0.588	0.656	-11.6	107	0.00	9.57
50		tert amyl alcohol	0.013	0.013	0.0	104	0.00	9.69
51	I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00	10.19
52	S	1,2-dichloroethane-d4 (s)	0.329	0.326	0.9	100	0.00	9.75
53	M	n-butyl alcohol	0.006	0.007#	-16.7	109	0.00	10.33
54		2,2,4-trimethylpentane	1.105	1.129	-2.2	102	0.00	9.80
55	M	benzene	0.946	1.017	-7.5	104	0.00	9.82
56	M	tert-amyl methyl ether	0.135	0.145	-7.4	98	0.00	9.84
57	M	heptane	0.195	0.218	-11.8	109	0.00	9.98
58	M	isopropyl acetate	0.031	0.034	-9.7	99	0.00	9.74
59	M	1,2-dichloroethane	0.358	0.365	-2.0	102	0.00	9.84
60	M	trichloroethene	0.266	0.303	-13.9	111	0.00	10.53
61		ethyl acrylate	0.259	0.279	-7.7	102	0.00	10.54
62	M	2-nitropropane	0.460	0.476	-3.5	101	0.00	11.34
63	M	2-chloroethyl vinyl ether	0.091	0.101	-11.0	103	0.00	11.34
64	M	methyl methacrylate	0.041	0.049	-19.5	113	0.00	10.81
65	M	1,2-dichloropropane	0.257	0.287	-11.7	109	0.00	10.80
66	M	dibromomethane	0.149	0.163	-9.4	106	0.00	10.97
67	M	methylcyclohexane	0.385	0.455	-18.2	114	0.00	10.74
68	M	bromodichloromethane	0.346	0.384	-11.0	113	0.00	11.10
69		epichlorohydrin	0.019	0.020	-5.3	105	0.00	11.47
70	M	cis-1,3-dichloropropene	0.385	0.442	-14.8	107	0.00	11.56
71	M	4-methyl-2-pentanone	0.073	0.083	-13.7	104	0.00	11.65
72	M	3-methyl-1-butanol	0.010	0.011	-10.0	102	0.00	11.68
73	I	chlorobenzene-d5	1.000	1.000	0.0	110	0.00	13.36
74	S	toluene-d8 (s)	1.295	1.293	0.2	103	0.00	11.84
75		toluene	0.697	0.729	-4.6	108	0.00	11.92
76		trans-1,3-dichloropropene	0.393	0.441	-12.2	107	0.00	12.13
77		ethyl methacrylate	0.265	0.278	-4.9	103	0.00	12.11
78		1,1,2-trichloroethane	0.195	0.215	-10.3	110	0.00	12.34
79	M	tetrachloroethene	0.275	0.330	-20.0	117	0.00	12.50
80	M	1,3-dichloropropane	0.351	0.374	-6.6	103	0.00	12.52
81		2-hexanone	0.087	0.094	-8.0	100	0.00	12.50
82	M	butyl acetate	0.145	0.165	-13.8	109	0.00	12.58
83	M	dibromochloromethane	0.314	0.348	-10.8	112	0.00	12.79
84	M	1,2-dibromoethane	0.242	0.260	-7.4	108	0.00	12.93
85		n-butyl ether	1.378	1.457	-5.7	107	0.00	13.30
86	M	chlorobenzene	0.791	0.851	-7.6	110	0.00	13.39
87	M	1,1,1,2-tetrachloroethane	0.292	0.329	-12.7	111	0.00	13.46
88	M	ethylbenzene	1.371	1.453	-6.0	112	0.00	13.45
89	M	m,p-xylene	0.490	0.538	-9.8	111	0.00	13.55
90	M	o-xylene	0.471	0.522	-10.8	112	0.00	13.97
91	M	styrene	0.763	0.845	-10.7	109	0.00	13.98
92	M	bromoform	0.225	0.251	-11.6	110	0.00	14.25
93		butyl acrylate	0.507	0.552	-8.9	107	0.00	13.80
94		isopropylbenzene	1.160	1.268	-9.3	111	0.00	14.31
95		cis-1,4-dichloro-2-butene	0.097	0.106	-9.3	106	0.00	14.39

Initial Calibration Verification

Job Number: JD91339 **Sample:** V1C8714-ICV8714
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1C201740.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	15.68
97	S	4-bromofluorobenzene (s)	0.844	0.866	-2.6	106	0.00	14.52
98	M	bromobenzene	0.646	0.741	-14.7	112	0.00	14.71
99	M	1,1,2,2-tetrachloroethane	0.524	0.586	-11.8	108	0.00	14.63
100	M	trans-1,4-dichloro-2-bute	0.164	0.177	-7.9	100	0.00	14.67
101	M	1,2,3-trichloropropane	0.111	0.124	-11.7	105	0.00	14.70
102	M	n-propylbenzene	2.857	3.166	-10.8	113	0.00	14.72
103	M	2-chlorotoluene	0.577	0.633	-9.7	109	0.00	14.87
104	M	4-chlorotoluene	1.691	1.802	-6.6	110	0.00	14.97
105	M	1,3,5-trimethylbenzene	1.906	2.108	-10.6	109	0.00	14.87
106	M	tert-butylbenzene	0.304	0.343	-12.8	109	0.00	15.21
107	M	1,2,4-trimethylbenzene	1.890	2.055	-8.7	116	0.00	15.26
108	M	sec-butylbenzene	2.516	2.661	-5.8	107	0.00	15.43
109	M	1,3-dichlorobenzene	1.209	1.290	-6.7	110	0.00	15.63
110	M	p-isopropyltoluene	2.047	2.319	-13.3	114	0.00	15.55
111		1,2,3-trimethylbenzene		----------NA----------				
112	M	1,4-dichlorobenzene	1.245	1.301	-4.5	113	0.00	15.71
113		benzyl chloride	0.922	1.029	-11.6	108	0.00	15.83
114	M	1,2-dichlorobenzene	1.132	1.226	-8.3	110	0.00	16.11
115	M	n-butylbenzene	1.113	1.258	-13.0	108	0.00	15.97
116	M	1,2-dibromo-3-chloropropa	0.102	0.107	-4.9	104	0.00	16.90
117		1,3,5-trichlorobenzene	0.984	1.109	-12.7	111	0.00	17.08
118	M	1,2,4-trichlorobenzene	0.786	0.857	-9.0	109	0.00	17.66
119	M	hexachlorobutadiene	0.547	0.616	-12.6	115	0.00	17.76
120	M	naphthalene	1.284	1.421	-10.7	104	0.00	17.91
121	M	1,2,3-trichlorobenzene	0.709	0.762	-7.5	105	0.00	18.12
122	m	hexachloroethane	0.431	0.534	-23.9	117	0.00	16.37

		True	Calc.	% Drift			
123	2-methylnaphthalene	25.000	22.748	9.0	103	0.00	18.88

		AvgRF	CCRF	% Dev			
124	pentafluorobenzene(a)	1.000	1.000	0.0	107	0.00	9.28
125	vinyl bromide		----------NA----------				
126	1,4-dichlorobenzene-d4(a)	1.000	1.000	0.0	105	0.00	15.68
127	pentachloroethane		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1C201735.D M1C8714.M Mon Jun 03 11:05:42 2024

Initial Calibration Verification

Job Number: JD91339 **Sample:** V1C8714-ICV8714
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1C201741.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V1C8714\1C201741.D Vial: 16
Acq On : 1 Jun 2024 7:53 pm Operator: PrashanS
Sample : ICV8714-50 Inst : GCMS1C
Misc : MS81356,V1C8714,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1C8714.M (RTE Integrator)
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Mon Jun 03 10:57:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	95	-0.01	7.03
2	M	tertiary butyl alcohol		----------NA----------				
3		ethanol		----------NA----------				
4	M	1,4-dioxane		----------NA----------				
5	I	pentafluorobenzene	1.000	1.000	0.0	109	0.00	9.28
6	M	dichlorodifluoromethane		----------NA----------				
7		chlorodifluoromethane	0.689	0.632	8.3	96	0.00	3.69
8	M	chloromethane		----------NA----------				
9	M	vinyl chloride		----------NA----------				
10		1,3-butadiene		----------NA----------				
11	M	bromomethane		----------NA----------				
12	M	chloroethane		----------NA----------				
13	M	trichlorofluoromethane		----------NA----------				
14	M	ethyl ether		----------NA----------				
15	M	acrolein		----------NA----------				
16		freon 113		----------NA----------				
17	M	1,1-dichloroethene		----------NA----------				
18	M	acetone		----------NA----------				
19	M	acetonitrile	0.046	0.045	2.2	100	0.00	6.87
		----------	True	Calc.	% Drift	----------		
20	M	iodomethane		----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------		
21	M	carbon disulfide		----------NA----------				
22	M	methylene chloride		----------NA----------				
23	M	methyl acetate		----------NA----------				
24	M	methyl tert butyl ether		----------NA----------				
25	M	trans-1,2-dichloroethene		----------NA----------				
26	M	di-isopropyl ether		----------NA----------				
27	M	2-butanone		----------NA----------				
28	M	1,1-dichloroethane		----------NA----------				
29	M	chloroprene		----------NA----------				
30	M	acrylonitrile	0.110	0.118	-7.3	105	0.01	7.43
31		hexane		----------NA----------				
32	M	vinyl acetate		----------NA----------				
33	M	ethyl tert-butyl ether		----------NA----------				
34	M	ethyl acetate		----------NA----------				
35	M	2,2-dichloropropane		----------NA----------				
36	M	cis-1,2-dichloroethene		----------NA----------				
37		methyl acrylate		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: V1C8714-ICV8714
Lab FileID: 1C201741.D

38	M	propionitrile			----------NA----------				
39	M	bromochloromethane			----------NA----------				
40	M	tetrahydrofuran			----------NA----------				
41	M	chloroform			----------NA----------				
42	M	t-butyl formate			----------NA----------				
43	S	dibromofluoromethane (s)	0.512	0.491	4.1	102	0.00	9.33	
44	M	methacrylonitrile			----------NA----------				
45	M	1,1,1-trichloroethane			----------NA----------				
46		cyclohexane			----------NA----------				
47		1,1-dichloropropene			----------NA----------				
48		iso-butyl alcohol			----------NA----------				
49		carbon tetrachloride			----------NA----------				
50		tert amyl alcohol			----------NA----------				
51	I	1,4-difluorobenzene	1.000	1.000	0.0	99	0.00	10.19	
52	S	1,2-dichloroethane-d4 (s)	0.329	0.315	4.3	94	0.00	9.75	
53	M	n-butyl alcohol			----------NA----------				
54		2,2,4-trimethylpentane			----------NA----------				
55	M	benzene			----------NA----------				
56	M	tert-amyl methyl ether			----------NA----------				
57	M	heptane			----------NA----------				
58	M	isopropyl acetate			----------NA----------				
59	M	1,2-dichloroethane			----------NA----------				
60	M	trichloroethene			----------NA----------				
61		ethyl acrylate			----------NA----------				
62	M	2-nitropropane			----------NA----------				
63	M	2-chloroethyl vinyl ether			----------NA----------				
64	M	methyl methacrylate			----------NA----------				
65	M	1,2-dichloropropane			----------NA----------				
66	M	dibromomethane			----------NA----------				
67	M	methylcyclohexane			----------NA----------				
68	M	bromodichloromethane			----------NA----------				
69		epichlorohydrin			----------NA----------				
70	M	cis-1,3-dichloropropene			----------NA----------				
71	M	4-methyl-2-pentanone			----------NA----------				
72	M	3-methyl-1-butanol			----------NA----------				
73	I	chlorobenzene-d5	1.000	1.000	0.0	105	0.00	13.36	
74	S	toluene-d8 (s)	1.295	1.328	-2.5	101	0.00	11.85	
75		toluene			----------NA----------				
76		trans-1,3-dichloropropene			----------NA----------				
77		ethyl methacrylate			----------NA----------				
78		1,1,2-trichloroethane			----------NA----------				
79	M	tetrachloroethene	0.275	0.300	-9.1	102	0.00	12.50	
80	M	1,3-dichloropropane			----------NA----------				
81		2-hexanone			----------NA----------				
82	M	butyl acetate			----------NA----------				
83	M	dibromochloromethane			----------NA----------				
84	M	1,2-dibromoethane			----------NA----------				
85		n-butyl ether			----------NA----------				
86	M	chlorobenzene			----------NA----------				
87	M	1,1,1,2-tetrachloroethane			----------NA----------				
88	M	ethylbenzene			----------NA----------				
89	M	m,p-xylene			----------NA----------				
90	M	o-xylene			----------NA----------				
91	M	styrene			----------NA----------				
92	M	bromoform			----------NA----------				
93		butyl acrylate			----------NA----------				
94		isopropylbenzene			----------NA----------				
95		cis-1,4-dichloro-2-butene			----------NA----------				

Initial Calibration Verification

Job Number: JD91339 **Sample:** V1C8714-ICV8714
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1C201741.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	15.68
97	S	4-bromofluorobenzene (s)	0.844	0.855	-1.3	103	0.00	14.52
98	M	bromobenzene		----------NA----------				
99	M	1,1,2,2-tetrachloroethane		----------NA----------				
100	M	trans-1,4-dichloro-2-bute		----------NA----------				
101	M	1,2,3-trichloropropane		----------NA----------				
102	M	n-propylbenzene		----------NA----------				
103	M	2-chlorotoluene		----------NA----------				
104	M	4-chlorotoluene		----------NA----------				
105	M	1,3,5-trimethylbenzene		----------NA----------				
106	M	tert-butylbenzene		----------NA----------				
107	M	1,2,4-trimethylbenzene		----------NA----------				
108	M	sec-butylbenzene		----------NA----------				
109	M	1,3-dichlorobenzene		----------NA----------				
110	M	p-isopropyltoluene		----------NA----------				
111		1,2,3-trimethylbenzene	1.907	2.135	-12.0	114	0.00	15.71
112	M	1,4-dichlorobenzene		----------NA----------				
113		benzyl chloride		----------NA----------				
114	M	1,2-dichlorobenzene		----------NA----------				
115	M	n-butylbenzene		----------NA----------				
116	M	1,2-dibromo-3-chloropropa		----------NA----------				
117		1,3,5-trichlorobenzene		----------NA----------				
118	M	1,2,4-trichlorobenzene		----------NA----------				
119	M	hexachlorobutadiene		----------NA----------				
120	M	naphthalene		----------NA----------				
121	M	1,2,3-trichlorobenzene		----------NA----------				
122	m	hexachloroethane		----------NA----------				
		----------	True	Calc.	% Drift	----------		
123		2-methylnaphthalene		----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------		
124		pentafluorobenzene(a)	1.000	1.000	0.0	109	0.00	9.28
125		vinyl bromide		----------NA----------				
126		1,4-dichlorobenzene-d4(a)	1.000	1.000	0.0	103	0.00	15.68
127		pentachloroethane		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1C201735.D M1C8714.M Mon Jun 03 11:10:22 2024

Continuing Calibration Summary

Job Number: JD91339 **Sample:** V1C8736-CC8714
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1C202317.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\k...24\V1C8736\1C202317.D Vial: 3
Acq On : 1 Jul 2024 11:36 am Operator: PrashanS
Sample : CC8714-50 Inst : GCMS1C
Misc : MS82659,V1C8736,5.0,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1C8714.M (RTE Integrator)
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Mon Jun 03 10:57:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	72	-0.01	7.03
2	M	tertiary butyl alcohol	1.136	1.144	-0.7	68	0.00	7.15
3		ethanol	0.125	0.146	-16.8	76	0.00	5.81
4	M	1,4-dioxane	0.097	0.098	-1.0	66	0.00	10.93
5	I	pentafluorobenzene	1.000	1.000	0.0	66	0.00	9.28
6	M	dichlorodifluoromethane	0.556	0.573	-3.1	63	0.00	3.66
7		chlorodifluoromethane	0.689	0.796	-15.5	73	0.00	3.69
8	M	chloromethane	0.784	0.878	-12.0	74	0.00	4.05
9	M	vinyl chloride	0.589	0.707	-20.0#	74	0.00	4.27
10		1,3-butadiene	0.476	0.562	-18.1	76	0.00	4.34
11	M	bromomethane	0.375	0.373	0.5	73	0.01	4.92
12	M	chloroethane	0.258	0.281	-8.9	68	0.00	5.09
13	M	trichlorofluoromethane	0.664	0.726	-9.3	66	0.00	5.52
14	M	ethyl ether	0.152	0.166	-9.2	65	0.00	5.96
15	M	acrolein	0.044	0.050	-13.6	64	0.01	6.22
16		freon 113	0.323	0.334	-3.4	63	0.00	6.31
17	M	1,1-dichloroethene	0.343	0.349	-1.7	68	0.00	6.36
18	M	acetone	0.027	0.041	-51.9#	88	0.00	6.42
19	M	acetonitrile	0.046	0.057	-23.9#	76	0.00	6.86
		----------	True	Calc.	% Drift	----------		
20	M	iodomethane	50.000	42.450	15.1	53	0.00	6.64
		----------	AvgRF	CCRF	% Dev	----------		
21	M	carbon disulfide	1.269	1.326	-4.5	69	0.00	6.76
22	M	methylene chloride	0.392	0.393	-0.3	68	0.00	7.09
23	M	methyl acetate	0.038	0.044	-15.8	68	0.01	6.89
24	M	methyl tert butyl ether	0.870	0.920	-5.7	66	0.00	7.39
25	M	trans-1,2-dichloroethene	0.389	0.390	-0.3	66	0.00	7.45
26	M	di-isopropyl ether	1.444	1.662	-15.1	68	0.00	7.99
27	M	2-butanone	0.029	0.038	-31.0#	71	0.00	8.73
28	M	1,1-dichloroethane	0.738	0.803	-8.8	66	0.00	8.02
29	M	chloroprene	0.640	0.712	-11.2	67	0.00	8.13
30	M	acrylonitrile	0.110	0.126	-14.5	67	0.01	7.43
31		hexane	0.675	0.695	-3.0	65	0.00	7.75
32	M	vinyl acetate	0.041	0.045	-9.8	60	0.00	8.02
33	M	ethyl tert-butyl ether	1.146	1.252	-9.2	66	0.00	8.45
34	M	ethyl acetate	0.055	0.065	-18.2	72	0.00	8.74
35	M	2,2-dichloropropane	0.602	0.634	-5.3	64	0.00	8.74
36	M	cis-1,2-dichloroethene	0.429	0.429	0.0	64	0.00	8.76
37		methyl acrylate	0.040	0.044	-10.0	62	0.00	8.83

Continuing Calibration Summary

Job Number: JD91339 **Sample:** V1C8736-CC8714
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1C202317.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

38	M	propionitrile	0.043	0.052	-20.9#	70	0.00	8.83
39	M	bromochloromethane	0.185	0.203	-9.7	66	0.00	9.07
40	M	tetrahydrofuran	0.118	0.132	-11.9	72	0.00	9.11
41	M	chloroform	0.513	0.503	1.9	68	0.00	9.13
42	M	t-butyl formate	0.129	0.081	37.2#	38#	0.00	9.15
43	S	dibromofluoromethane (s)	0.512	0.574	-12.1	72	0.00	9.32
44	M	methacrylonitrile	0.109	0.122	-11.9	68	0.00	9.01
45	M	1,1,1-trichloroethane	0.632	0.658	-4.1	65	0.00	9.37
46		cyclohexane	0.505	0.495	2.0	59	0.00	9.43
47		1,1-dichloropropene	0.536	0.570	-6.3	65	0.00	9.55
48		iso-butyl alcohol	0.016	0.018	-12.5	70	0.00	9.58
49		carbon tetrachloride	0.588	0.638	-8.5	64	0.00	9.57
50		tert amyl alcohol	0.013	0.014	-7.7	70	0.00	9.69
51	I	1,4-difluorobenzene	1.000	1.000	0.0	68	0.00	10.19
52	S	1,2-dichloroethane-d4 (s)	0.329	0.342	-4.0	70	0.00	9.75
53	M	n-butyl alcohol	0.006	0.006#	0.0	71	0.00	10.32
54		2,2,4-trimethylpentane	1.105	1.022	7.5	62	0.00	9.80
55	M	benzene	0.946	0.950	-0.4	65	0.00	9.82
56	M	tert-amyl methyl ether	0.135	0.135	0.0	60	0.00	9.84
57	M	heptane	0.195	0.178	8.7	60	0.00	9.98
58	M	isopropyl acetate	0.031	0.030	3.2	58	0.00	9.74
59	M	1,2-dichloroethane	0.358	0.349	2.5	65	0.00	9.84
60	M	trichloroethene	0.266	0.265	0.4	65	0.00	10.53
61		ethyl acrylate	0.259	0.277	-6.9	68	0.00	10.54
62	M	2-nitropropane	0.460	0.457	0.7	65	0.00	11.34
63	M	2-chloroethyl vinyl ether	0.091	0.094	-3.3	64	0.00	11.34
64	M	methyl methacrylate	0.041	0.040	2.4	62	0.00	10.81
65	M	1,2-dichloropropane	0.257	0.271	-5.4	68	0.00	10.80
66	M	dibromomethane	0.149	0.153	-2.7	66	0.00	10.97
67	M	methylcyclohexane	0.385	0.358	7.0	60	0.00	10.74
68	M	bromodichloromethane	0.346	0.350	-1.2	69	0.00	11.10
69		epichlorohydrin	0.019	0.020	-5.3	70	0.00	11.46
70	M	cis-1,3-dichloropropene	0.385	0.406	-5.5	65	0.00	11.56
71	M	4-methyl-2-pentanone	0.073	0.083	-13.7	69	0.00	11.65
72	M	3-methyl-1-butanol	0.010	0.011	-10.0	67	0.00	11.67
73	I	chlorobenzene-d5	1.000	1.000	0.0	75	0.00	13.36
74	S	toluene-d8 (s)	1.295	1.311	-1.2	71	0.00	11.84
75		toluene	0.697	0.624	10.5	63	0.00	11.91
76		trans-1,3-dichloropropene	0.393	0.403	-2.5	67	0.00	12.12
77		ethyl methacrylate	0.265	0.259	2.3	65	0.00	12.11
78		1,1,2-trichloroethane	0.195	0.191	2.1	66	0.00	12.34
79	M	tetrachloroethene	0.275	0.252	8.4	61	0.00	12.50
80	M	1,3-dichloropropane	0.351	0.350	0.3	66	0.00	12.52
81		2-hexanone	0.087	0.098	-12.6	71	0.00	12.50
82	M	butyl acetate	0.145	0.150	-3.4	67	0.00	12.58
83	M	dibromochloromethane	0.314	0.297	5.4	65	0.00	12.79
84	M	1,2-dibromoethane	0.242	0.230	5.0	65	0.00	12.93
85		n-butyl ether	1.378	1.318	4.4	66	0.00	13.30
86	M	chlorobenzene	0.791	0.723	8.6	64	0.00	13.39
87	M	1,1,1,2-tetrachloroethane	0.292	0.295	-1.0	68	0.00	13.45
88	M	ethylbenzene	1.371	1.288	6.1	67	0.00	13.44
89	M	m,p-xylene	0.490	0.470	4.1	66	0.00	13.55
90	M	o-xylene	0.471	0.465	1.3	68	0.00	13.97
91	M	styrene	0.763	0.775	-1.6	68	0.00	13.98
92	M	bromoform	0.225	0.219	2.7	66	0.00	14.25
93		butyl acrylate	0.507	0.526	-3.7	70	0.00	13.80
94		isopropylbenzene	1.160	1.094	5.7	65	0.00	14.31
95		cis-1,4-dichloro-2-butene	0.097	0.099	-2.1	68	0.00	14.39

Continuing Calibration Summary

Job Number: JD91339 **Sample:** V1C8736-CC8714
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1C202317.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	75	0.00	15.68
97	S	4-bromofluorobenzene (s)	0.844	0.845	-0.1	74	0.00	14.52
98	M	bromobenzene	0.646	0.618	4.3	67	0.00	14.71
99	M	1,1,2,2-tetrachloroethane	0.524	0.523	0.2	69	0.00	14.63
100	M	trans-1,4-dichloro-2-bute	0.164	0.176	-7.3	71	0.00	14.66
101	M	1,2,3-trichloropropane	0.111	0.112	-0.9	67	0.00	14.70
102	M	n-propylbenzene	2.857	2.737	4.2	70	0.00	14.72
103	M	2-chlorotoluene	0.577	0.529	8.3	65	0.00	14.86
104	M	4-chlorotoluene	1.691	1.601	5.3	70	0.00	14.96
105	M	1,3,5-trimethylbenzene	1.906	1.740	8.7	64	0.00	14.87
106	M	tert-butylbenzene	0.304	0.281	7.6	63	0.00	15.21
107	M	1,2,4-trimethylbenzene	1.890	1.780	5.8	72	0.00	15.26
108	M	sec-butylbenzene	2.516	2.294	8.8	66	0.00	15.43
109	M	1,3-dichlorobenzene	1.209	1.103	8.8	67	0.00	15.62
110	M	p-isopropyltoluene	2.047	1.896	7.4	67	0.00	15.55
111		1,2,3-trimethylbenzene	1.907	1.818	4.7	71	0.00	15.71
112	M	1,4-dichlorobenzene	1.245	1.134	8.9	70	0.00	15.71
113		benzyl chloride	0.922	1.001	-8.6	75	0.00	15.83
114	M	1,2-dichlorobenzene	1.132	1.052	7.1	67	0.00	16.11
115	M	n-butylbenzene	1.113	1.087	2.3	67	0.00	15.97
116	M	1,2-dibromo-3-chloropropa	0.102	0.105	-2.9	73	0.00	16.90
117		1,3,5-trichlorobenzene	0.984	0.937	4.8	67	0.00	17.08
118	M	1,2,4-trichlorobenzene	0.786	0.764	2.8	69	0.00	17.66
119	M	hexachlorobutadiene	0.547	0.508	7.1	67	0.00	17.76
120	M	naphthalene	1.284	1.385	-7.9	73	0.00	17.91
121	M	1,2,3-trichlorobenzene	0.709	0.674	4.9	66	0.00	18.12
122	m	hexachloroethane	0.431	0.416	3.5	65	0.00	16.37
		----------	True	Calc.	% Drift	----------		
123		2-methylnaphthalene	25.000	21.052	15.8	68	0.00	18.88
		----------	AvgRF	CCRF	% Dev	----------		
124		pentafluorobenzene(a)	1.000	1.000	0.0	66	0.00	9.28
125		vinyl bromide		----------NA----------				
126		1,4-dichlorobenzene-d4(a)	1.000	1.000	0.0	75	0.00	15.68
127		pentachloroethane		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1C201735.D M1C8714.M Tue Jul 02 12:03:17 2024

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: V1C8714	**Method:** SW846 8260D	**Instrument ID:** GCMS1C

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V1C8714-BFB	1C201727.D	06/01/24 13:33	n/a	BFB Tune
V1C8714-IC8714	1C201728.D	06/01/24 14:12	n/a	Initial cal 0.2
V1C8714-IC8714	1C201729.D	06/01/24 14:39	n/a	Initial cal 0.5
V1C8714-IC8714	1C201730.D	06/01/24 15:05	n/a	Initial cal 1
V1C8714-IC8714	1C201731.D	06/01/24 15:31	n/a	Initial cal 2
V1C8714-IC8714	1C201732.D	06/01/24 15:57	n/a	Initial cal 4
V1C8714-IC8714	1C201733.D	06/01/24 16:23	n/a	Initial cal 8
V1C8714-IC8714	1C201734.D	06/01/24 16:50	n/a	Initial cal 20
V1C8714-ICC8714	1C201735.D	06/01/24 17:16	n/a	Initial cal 50
V1C8714-IC8714	1C201736.D	06/01/24 17:42	n/a	Initial cal 100
V1C8714-IC8714	1C201737.D	06/01/24 18:08	n/a	Initial cal 200
V1C8714-ICV8714	1C201740.D	06/01/24 19:27	n/a	Initial cal verification 50
V1C8714-ICV8714	1C201741.D	06/01/24 19:53	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: V1C8736	**Method:** SW846 8260D	**Instrument ID:** GCMS1C

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V1C8736-CC8714	1C202317.D	07/01/24 11:36	n/a	Continuing cal 50
V1C8736-BS	1C202318.D	07/01/24 12:15	n/a	Blank Spike
ZZZZZZ	1C202320A.D	07/01/24 13:35	n/a	(unrelated sample)
V1C8736-MB	1C202320.D	07/01/24 13:35	n/a	Method Blank
JD91336-2	1C202321.D	07/01/24 14:02	n/a	(used for QC only; not part of job JD91339)
JD91336-4	1C202322.D	07/01/24 14:28	n/a	(used for QC only; not part of job JD91339)
ZZZZZZ	1C202323.D	07/01/24 14:54	n/a	(unrelated sample)
ZZZZZZ	1C202324.D	07/01/24 15:20	n/a	(unrelated sample)
ZZZZZZ	1C202325.D	07/01/24 15:47	n/a	(unrelated sample)
ZZZZZZ	1C202326.D	07/01/24 16:13	n/a	(unrelated sample)
ZZZZZZ	1C202327.D	07/01/24 16:39	n/a	(unrelated sample)
JD91336-2MS	1C202328.D	07/01/24 17:11	n/a	Matrix Spike
JD91336-4DUP	1C202329.D	07/01/24 17:37	n/a	Duplicate
ZZZZZZ	1C202330.D	07/01/24 18:04	n/a	(unrelated sample)
ZZZZZZ	1C202331.D	07/01/24 18:30	n/a	(unrelated sample)
ZZZZZZ	1C202332.D	07/01/24 18:51	n/a	(unrelated sample)
JD91339-4	1C202333.D	07/01/24 19:17	n/a	GRID-11
JD91339-6	1C202334.D	07/01/24 19:43	n/a	GRID-21
ZZZZZZ	1C202335.D	07/01/24 20:09	n/a	(unrelated sample)
ZZZZZZ	1C202336.D	07/01/24 20:35	n/a	(unrelated sample)
ZZZZZZ	1C202337.D	07/01/24 21:01	n/a	(unrelated sample)
ZZZZZZ	1C202338.D	07/01/24 21:28	n/a	(unrelated sample)
ZZZZZZ	1C202339.D	07/01/24 21:54	n/a	(unrelated sample)
ZZZZZZ	1C202340.D	07/01/24 22:20	n/a	(unrelated sample)
ZZZZZZ	1C202341.D	07/01/24 22:46	n/a	(unrelated sample)
ZZZZZZ	1C202342.D	07/01/24 23:12	n/a	(unrelated sample)

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2024\7. July\Jul-02-2024\V1C8736 hw\
Data File : 1C202333.D
Acq On : 1 Jul 2024 7:17 pm
Operator : PrashanS
Sample : JD91339-4 Inst : GCMS1C
Misc : MS82669,V1C8736,4.9,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 02 13:58:52 2024
Quant Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Jun 10 10:32:44 2024
Response via : Initial Calibration

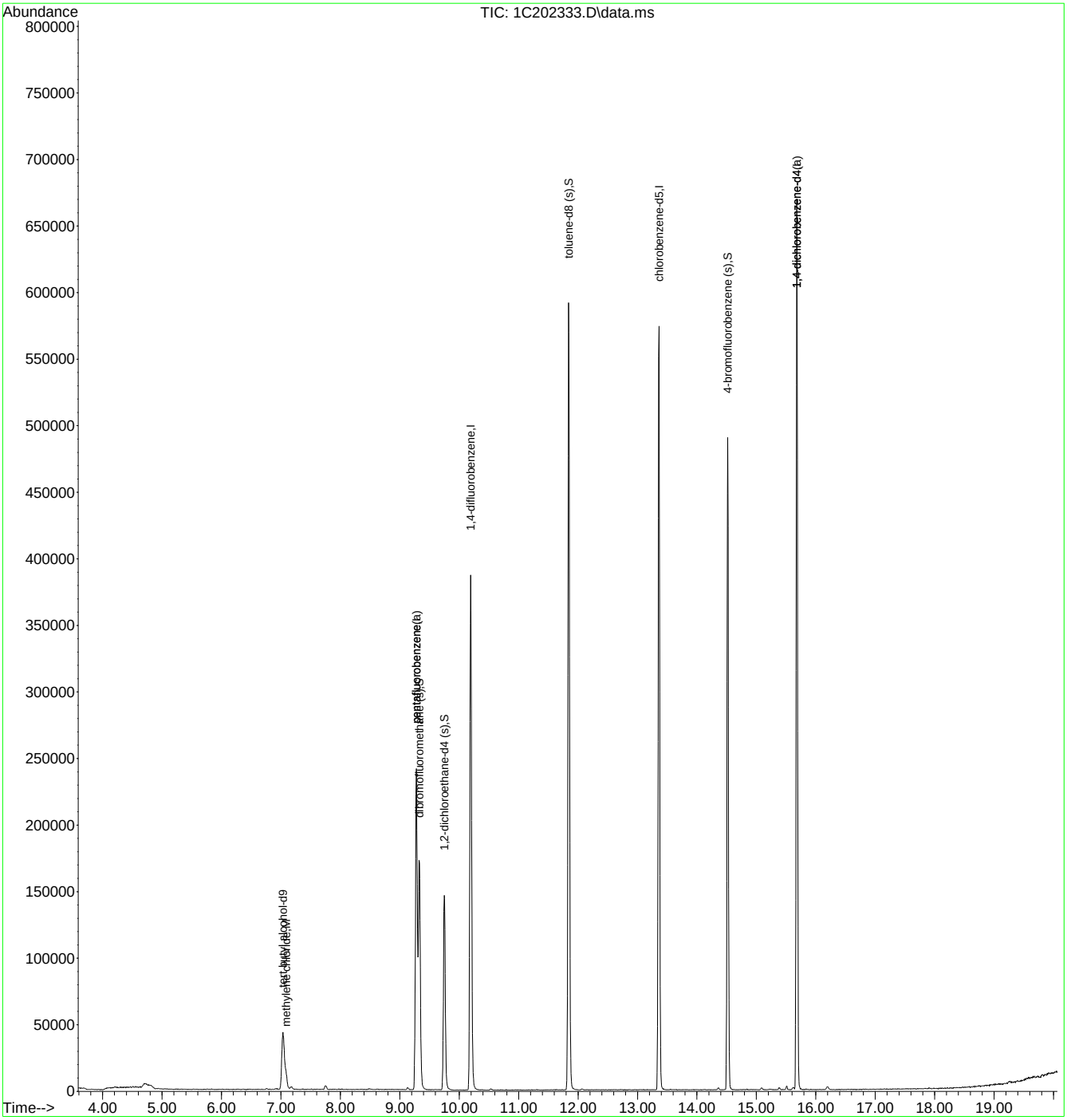
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.034	65	71447	500.00	ug/L	-0.01
5) pentafluorobenzene	9.278	168	207619	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.193	114	337895	50.00	ug/L	0.00
73) chlorobenzene-d5	13.363	117	289390	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.680	152	162354	50.00	ug/L	0.00
124) pentafluorobenzene(a)	9.278	168	207619	50.00	ug/L	0.00
126) 1,4-dichlorobenzene-d4(a)	15.680	152	162354	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.330	113	114080	53.66	ug/L	0.00
Spiked Amount 50.000	Range 80 - 124		Recovery = 107.32%			
52) 1,2-dichloroethane-d4 (s)	9.748	65	113747	51.18	ug/L	0.00
Spiked Amount 50.000	Range 75 - 133		Recovery = 102.36%			
74) toluene-d8 (s)	11.841	98	382267	50.99	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.98%			
97) 4-bromofluorobenzene (s)	14.518	95	141111	51.49	ug/L	0.00
Spiked Amount 50.000	Range 58 - 148		Recovery = 102.98%			
Target Compounds						Qvalue
22) methylene chloride	7.086	84	3257	1.9994	ug/L	91

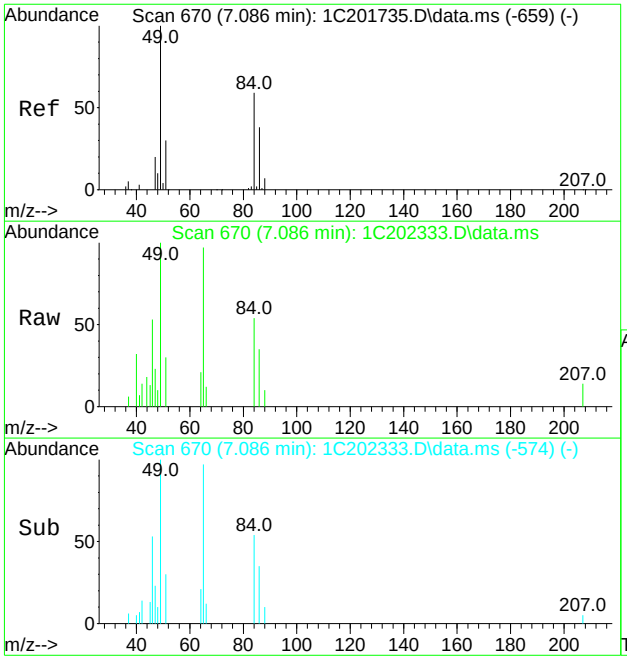
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2024\7. July\Jul-02-2024\V1C8736 hw\
Data File : 1C202333.D
Acq On : 1 Jul 2024 7:17 pm
Operator : PrashanS
Sample : JD91339-4 Inst : GCMS1C
Misc : MS82669,V1C8736,4.9,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 02 13:58:52 2024
Quant Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Jun 10 10:32:44 2024
Response via : Initial Calibration

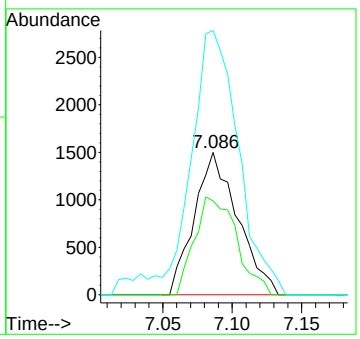




#22
methylene chloride
Concen: 1.9994 ug/L
RT: 7.086 min Scan# 670
Delta R.T. 0.000 min
Lab File: 1C202333.D
Acq: 1 Jul 2024 7:17 pm

Tgt Ion: 84 Resp: 3257

Ion	Ratio	Lower	Upper
84	100		
86	65.9	33.9	93.9
49	185.8	140.2	200.2



LSC Area Percent Report

Data Path : X:\Dayton VOA GCMS\antonettec\2024\7. July\Jul-02-2024\V1C8736 hw\
Data File : 1C202333.D
Acq On : 1 Jul 2024 7:17 pm
Operator : PrashanS
Sample : JD91339-4
Misc : MS82669,V1C8736,4.9,,,,1
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.3 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

Signal : TIC: 1C202333.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.634	9	10	15	rBV2	645	878	0.08%	0.014%
2	3.676	16	18	30	rVB2	1131	2441	0.23%	0.040%
3	3.927	63	66	68	rBV2	544	558	0.05%	0.009%
4	3.964	72	73	81	rBV2	516	819	0.08%	0.013%
5	4.068	81	93	96	rBV4	1464	3958	0.37%	0.064%
6	4.121	96	103	105	rVV3	614	1100	0.10%	0.018%
7	4.168	109	112	115	rBV2	814	942	0.09%	0.015%
8	4.204	115	119	122	rBV4	1072	1453	0.14%	0.024%
9	4.293	133	136	139	rVB	1005	1109	0.10%	0.018%
10	4.319	139	141	143	rBV2	898	778	0.07%	0.013%
11	4.466	166	169	173	rVB3	820	757	0.07%	0.012%
12	4.513	173	178	184	rBV4	897	1407	0.13%	0.023%
13	4.555	184	186	189	rBV2	870	611	0.06%	0.010%
14	4.701	204	214	215	rBV4	3083	5854	0.55%	0.095%
15	4.774	226	228	231	rBV2	830	597	0.06%	0.010%
16	4.931	256	258	266	rVB3	560	951	0.09%	0.015%
17	5.235	313	316	321	rVB3	568	716	0.07%	0.012%
18	5.753	413	415	422	rBV3	510	933	0.09%	0.015%
19	5.831	427	430	440	rVB2	700	1002	0.09%	0.016%
20	6.762	601	608	613	rVV3	785	1516	0.14%	0.025%
21	6.814	616	618	623	rBV3	618	719	0.07%	0.012%
22	6.903	630	635	637	rBV3	410	555	0.05%	0.009%
23	7.034	646	660	681	rBV3	43073	159819	14.91%	2.590%
24	7.180	681	688	697	rVB6	2307	5587	0.52%	0.091%
25	7.369	723	724	729	rVB2	668	619	0.06%	0.010%
26	7.703	783	788	791	rVB3	472	624	0.06%	0.010%
27	7.750	791	797	810	rVB4	3008	7167	0.67%	0.116%
28	7.829	810	812	816	rVB	546	567	0.05%	0.009%
29	7.871	816	820	822	rBV2	543	552	0.05%	0.009%
30	8.028	848	850	855	rVB2	653	648	0.06%	0.011%
31	8.472	930	935	936	rBV3	721	708	0.07%	0.011%
32	8.493	936	939	943	rVB3	537	731	0.07%	0.012%
33	9.131	1055	1061	1068	rVB3	1754	3242	0.30%	0.053%
34	9.278	1079	1089	1094	rBV	241261	530234	49.47%	8.592%
35	9.325	1094	1098	1122	rVB2	172555	395854	36.93%	6.415%
36	9.461	1122	1124	1130	rVB2	425	566	0.05%	0.009%
37	9.503	1130	1132	1136	rVB2	576	583	0.05%	0.009%
38	9.539	1136	1139	1145	rBV2	436	893	0.08%	0.014%
39	9.748	1167	1179	1202	rBV	146191	317624	29.63%	5.147%
40	10.193	1253	1264	1288	rBV	386859	791738	73.87%	12.830%

LSC Area Percent Report

Data Path : X:\Dayton VOA GCMS\antonettec\2024\7. July\Jul-02-2024\V1C8736 hw\
Data File : 1C202333.D
Acq On : 1 Jul 2024 7:17 pm
Operator : PrashanS
Sample : JD91339-4
Misc : MS82669,V1C8736,4.9,,,,1
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.3 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

41	10.533	1321	1329	1338	rVB3	1097	2542	0.24%	0.041%
42	11.166	1447	1450	1457	rVB2	322	563	0.05%	0.009%
43	11.600	1527	1533	1537	rVB	453	775	0.07%	0.013%
44	11.626	1537	1538	1548	rBV2	475	810	0.08%	0.013%
45	11.841	1567	1579	1600	rBV	591361	1071802	100.00%	17.368%
46	12.055	1615	1620	1629	rVB2	853	1968	0.18%	0.032%
47	12.526	1703	1710	1712	rBV2	324	571	0.05%	0.009%
48	12.955	1787	1792	1794	rBV	329	559	0.05%	0.009%
49	13.363	1859	1870	1892	rBV	573760	959475	89.52%	15.548%
50	13.556	1903	1907	1910	rBV2	682	634	0.06%	0.010%
51	13.990	1984	1990	1999	rVB2	405	1201	0.11%	0.019%
52	14.356	2053	2060	2069	rBV2	1591	3088	0.29%	0.050%
53	14.518	2082	2091	2107	rVB	489958	774225	72.24%	12.546%
54	14.785	2138	2142	2148	rVV	393	546	0.05%	0.009%
55	14.843	2148	2153	2157	rVB	612	780	0.07%	0.013%
56	15.094	2193	2201	2209	rBV3	1583	3244	0.30%	0.053%
57	15.224	2220	2226	2227	rBV2	507	591	0.06%	0.010%
58	15.381	2252	2256	2264	rVB4	1620	2796	0.26%	0.045%
59	15.512	2275	2281	2291	rVB4	2995	4909	0.46%	0.080%
60	15.622	2295	2302	2306	rVV4	1767	3454	0.32%	0.056%
61	15.680	2306	2313	2325	rVB	668915	1034243	96.50%	16.760%
62	15.836	2339	2343	2345	rBV2	835	807	0.08%	0.013%
63	16.192	2403	2411	2422	rVB3	2361	6056	0.57%	0.098%
64	16.354	2439	2442	2444	rBV2	582	545	0.05%	0.009%
65	16.433	2454	2457	2460	rBV2	512	618	0.06%	0.010%
66	16.658	2498	2500	2504	rVB	607	579	0.05%	0.009%
67	16.804	2522	2528	2529	rBV2	608	1000	0.09%	0.016%
68	17.123	2587	2589	2592	rBV	485	606	0.06%	0.010%
69	17.154	2592	2595	2599	rVV3	602	800	0.07%	0.013%
70	17.646	2688	2689	2696	rVB3	511	807	0.08%	0.013%
71	17.840	2719	2726	2733	rBV2	702	1366	0.13%	0.022%
72	17.913	2733	2740	2742	rVV4	741	1118	0.10%	0.018%
73	17.991	2747	2755	2756	rBV2	742	1333	0.12%	0.022%
74	18.075	2768	2771	2773	rBV2	844	755	0.07%	0.012%
75	18.101	2773	2776	2779	rVV2	737	731	0.07%	0.012%
76	18.127	2779	2781	2786	rVV3	707	856	0.08%	0.014%
77	18.253	2803	2805	2808	rBV3	625	559	0.05%	0.009%
78	18.316	2816	2817	2823	rBV2	960	1466	0.14%	0.024%
79	18.373	2826	2828	2832	rVV2	547	718	0.07%	0.012%
80	18.462	2842	2845	2850	rBV3	846	1335	0.12%	0.022%
81	18.608	2871	2873	2878	rBV4	961	1389	0.13%	0.023%
82	18.650	2878	2881	2885	rVB2	937	1068	0.10%	0.017%
83	18.676	2885	2886	2890	rBV4	1255	1084	0.10%	0.018%
84	18.713	2890	2893	2896	rBV4	590	822	0.08%	0.013%
85	18.818	2909	2913	2916	rBV3	580	696	0.06%	0.011%

LSC Area Percent Report

Data Path : X:\Dayton VOA GCMS\antonettec\2024\7. July\Jul-02-2024\V1C8736 hw\
Data File : 1C202333.D
Acq On : 1 Jul 2024 7:17 pm
Operator : PrashanS
Sample : JD91339-4
Misc : MS82669,V1C8736,4.9,,,,1
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.3 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

86	18.854	2916	2920	2921	rBV4	981	966	0.09%	0.016%
87	18.896	2925	2928	2933	rVB5	1277	2092	0.20%	0.034%
88	18.927	2933	2934	2942	rBV6	1753	3676	0.34%	0.060%
89	19.022	2950	2952	2954	rBV	1168	609	0.06%	0.010%
90	19.084	2961	2964	2966	rBV3	1020	964	0.09%	0.016%
91	19.147	2975	2976	2978	rBV	1055	822	0.08%	0.013%
92	19.215	2987	2989	2991	rVB3	1142	623	0.06%	0.010%
93	19.252	2991	2996	2997	rBV4	2021	2725	0.25%	0.044%
94	19.341	3011	3013	3017	rVB4	1029	1231	0.11%	0.020%
95	19.367	3017	3018	3021	rBV3	1278	1398	0.13%	0.023%
96	19.393	3021	3023	3028	rVB6	1142	1505	0.14%	0.024%
97	19.519	3045	3047	3049	rBV3	1451	1373	0.13%	0.022%
98	19.560	3049	3055	3056	rBV6	1724	2999	0.28%	0.049%
99	19.675	3076	3077	3082	rVB4	1348	1262	0.12%	0.020%
100	19.806	3098	3102	3107	rBV6	2501	5415	0.51%	0.088%

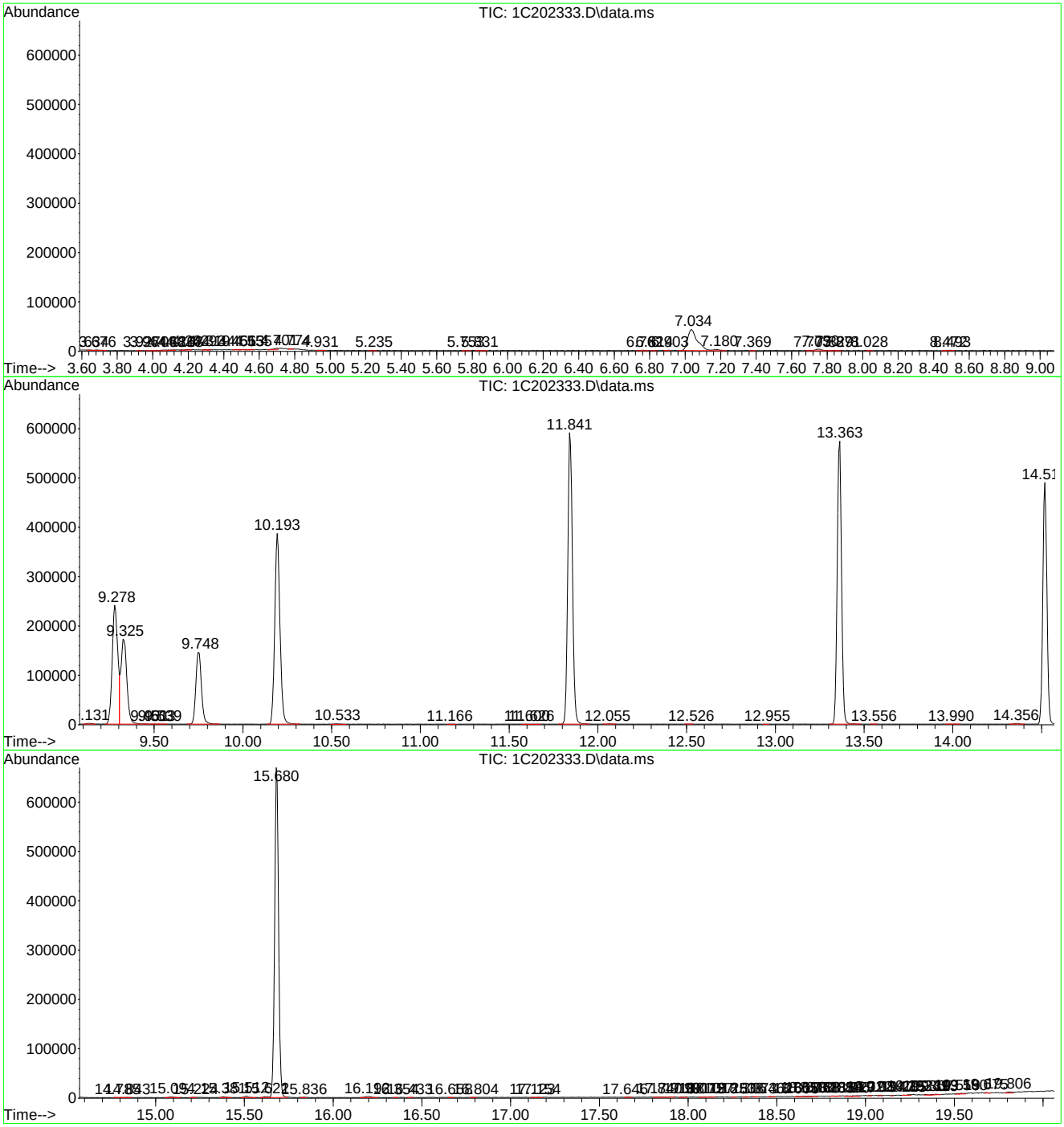
Sum of corrected areas: 6170960

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton VOA GCMS\antonettec\2024\7. July\Jul-02-2024\V1C8736 hw\
Data File : 1C202333.D
Acq On : 1 Jul 2024 7:17 pm
Operator : PrashanS
Sample : JD91339-4
Misc : MS82669,V1C8736,4.9,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p



Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton VOA GCMS\antonettec\2024\7. July\Jul-02-2024\V1C8736 hw\
Data File : 1C202333.D
Acq On : 1 Jul 2024 7:17 pm
Operator : PrashanS
Sample : JD91339-4
Misc : MS82669,V1C8736,4.9,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2024\7. July\Jul-02-2024\V1C8736 hw\
Data File : 1C202334.D
Acq On : 1 Jul 2024 7:43 pm
Operator : PrashanS
Sample : JD91339-6 Inst : GCMS1C
Misc : MS82669,V1C8736,5.4,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 02 14:01:11 2024
Quant Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Jun 10 10:32:44 2024
Response via : Initial Calibration

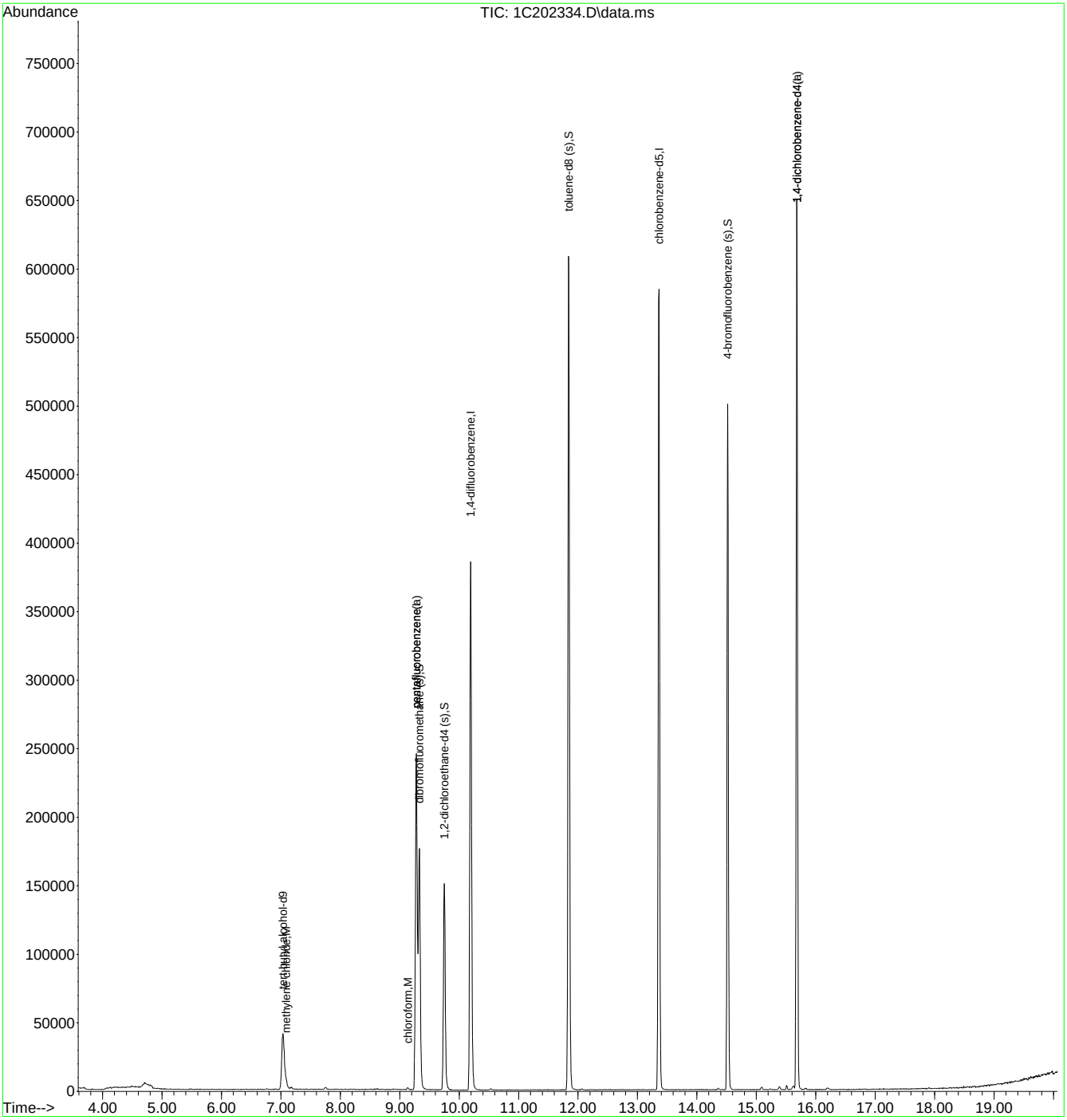
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.034	65	67620	500.00	ug/L	-0.01
5) pentafluorobenzene	9.278	168	210416	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.193	114	335555	50.00	ug/L	0.00
73) chlorobenzene-d5	13.363	117	295063	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.685	152	159893	50.00	ug/L	0.00
124) pentafluorobenzene(a)	9.278	168	210416	50.00	ug/L	0.00
126) 1,4-dichlorobenzene-d4(a)	15.685	152	159893	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.330	113	114238	53.02	ug/L	0.00
Spiked Amount 50.000	Range 80 - 124		Recovery = 106.04%			
52) 1,2-dichloroethane-d4 (s)	9.749	65	114144	51.71	ug/L	0.00
Spiked Amount 50.000	Range 75 - 133		Recovery = 103.42%			
74) toluene-d8 (s)	11.841	98	399810	52.31	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 104.62%			
97) 4-bromofluorobenzene (s)	14.519	95	142238	52.70	ug/L	0.00
Spiked Amount 50.000	Range 58 - 148		Recovery = 105.40%			
Target Compounds						Qvalue
22) methylene chloride	7.086	84	1425	0.8632	ug/L	91
41) chloroform	9.137	85	900	0.4170	ug/L	87

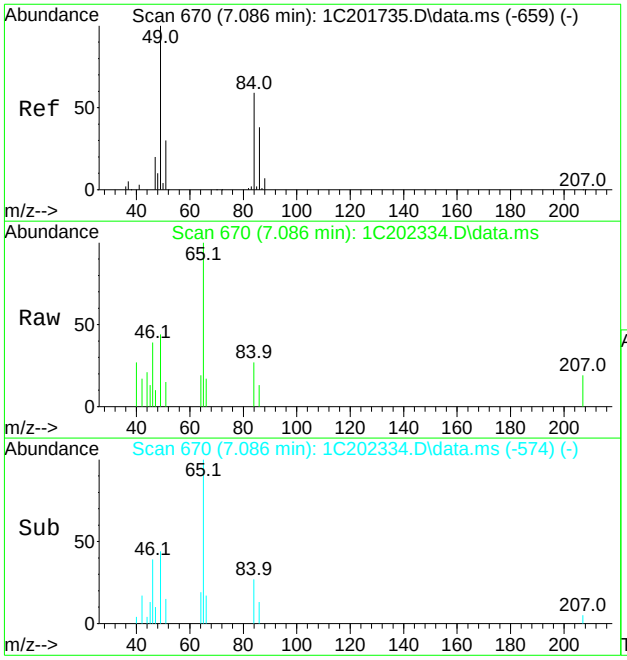
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2024\7. July\Jul-02-2024\V1C8736 hw\
Data File : 1C202334.D
Acq On : 1 Jul 2024 7:43 pm
Operator : PrashanS
Sample : JD91339-6 Inst : GCMS1C
Misc : MS82669,V1C8736,5.4,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 02 14:01:11 2024
Quant Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Jun 10 10:32:44 2024
Response via : Initial Calibration

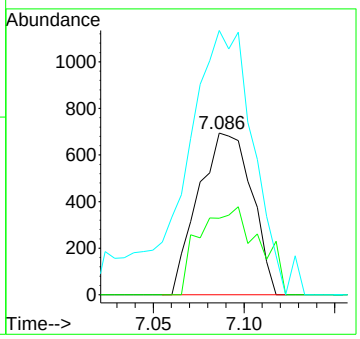


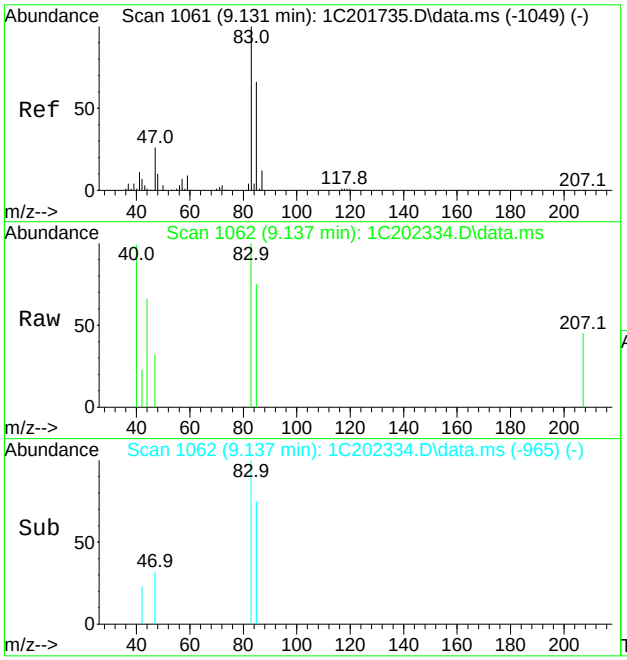


#22
methylene chloride
Concen: 0.8632 ug/L
RT: 7.086 min Scan# 670
Delta R.T. 0.000 min
Lab File: 1C202334.D
Acq: 1 Jul 2024 7:43 pm

Tgt Ion: 84 Resp: 1425

Ion	Ratio	Lower	Upper
84	100		
86	47.4	33.9	93.9
49	163.5	140.2	200.2

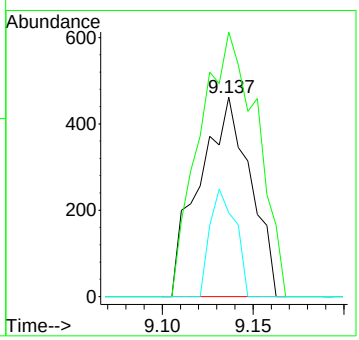




#41
chloroform
Concen: 0.4170 ug/L
RT: 9.137 min Scan# 1062
Delta R.T. 0.005 min
Lab File: 1C202334.D
Acq: 1 Jul 2024 7:43 pm

Tgt Ion: 85 Resp: 900

Ion	Ratio	Lower	Upper
85	100		
83	132.7	121.5	181.5
47	42.0	18.5	78.5



LSC Area Percent Report

Data Path : X:\Dayton VOA GCMS\antonettec\2024\7. July\Jul-02-2024\V1C8736 hw\
Data File : 1C202334.D
Acq On : 1 Jul 2024 7:43 pm
Operator : PrashanS
Sample : JD91339-6
Misc : MS82669,V1C8736,5.4,,,,1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.3 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

Signal : TIC: 1C202334.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.661	10	15	17	rBV3	515	1136	0.10%	0.018%
2	3.687	17	20	28	rVB2	1589	2679	0.24%	0.043%
3	3.755	28	33	34	rVB2	465	643	0.06%	0.010%
4	3.959	68	72	75	rVB3	516	836	0.07%	0.013%
5	4.053	82	90	91	rBV2	1061	1633	0.15%	0.026%
6	4.079	91	95	97	rVV3	985	1327	0.12%	0.021%
7	4.131	97	105	108	rVV3	1212	2339	0.21%	0.038%
8	4.163	108	111	113	rBV2	643	757	0.07%	0.012%
9	4.205	116	119	123	rVV3	717	1172	0.10%	0.019%
10	4.408	155	158	161	rBV2	676	751	0.07%	0.012%
11	4.492	167	174	178	rBV5	1173	2292	0.21%	0.037%
12	4.612	196	197	202	rVV2	804	723	0.06%	0.012%
13	4.707	202	215	232	rVV6	4155	22967	2.06%	0.368%
14	4.806	232	234	243	rVB5	2783	5343	0.48%	0.086%
15	4.916	254	255	260	rBV3	603	669	0.06%	0.011%
16	5.041	276	279	282	rBV3	630	626	0.06%	0.010%
17	5.062	282	283	291	rVB2	526	837	0.07%	0.013%
18	5.141	291	298	305	rBV2	560	1213	0.11%	0.019%
19	5.564	375	379	383	rBV3	607	919	0.08%	0.015%
20	6.767	602	609	613	rVB3	592	1267	0.11%	0.020%
21	6.914	635	637	642	rBV	510	687	0.06%	0.011%
22	7.034	644	660	681	rBV2	40851	144157	12.91%	2.312%
23	7.175	684	687	694	rVB2	1554	2351	0.21%	0.038%
24	7.761	789	799	803	rBV4	1778	4323	0.39%	0.069%
25	8.185	877	880	885	rVB4	442	630	0.06%	0.010%
26	8.342	906	910	913	rBV	489	742	0.07%	0.012%
27	8.509	932	942	944	rVV3	454	926	0.08%	0.015%
28	8.619	959	963	970	rBV3	701	855	0.08%	0.014%
29	8.776	990	993	998	rBV2	457	690	0.06%	0.011%
30	8.891	1010	1015	1018	rBV3	659	736	0.07%	0.012%
31	9.048	1040	1045	1049	rBV2	510	911	0.08%	0.015%
32	9.137	1056	1062	1069	rVB3	1565	3227	0.29%	0.052%
33	9.278	1079	1089	1094	rBV	245543	545796	48.88%	8.755%
34	9.330	1094	1099	1123	rVB	176117	390644	34.99%	6.266%
35	9.749	1168	1179	1199	rVB	150591	321585	28.80%	5.159%
36	10.193	1250	1264	1287	rBV	385709	794496	71.16%	12.745%
37	10.538	1319	1330	1337	rVB3	941	2179	0.20%	0.035%
38	11.422	1493	1499	1505	rBV2	383	853	0.08%	0.014%
39	11.469	1505	1508	1513	rVV2	388	632	0.06%	0.010%
40	11.841	1570	1579	1597	rBV	608231	1116535	100.00%	17.910%

LSC Area Percent Report

Data Path : X:\Dayton VOA GCMS\antonettec\2024\7. July\Jul-02-2024\V1C8736 hw\
Data File : 1C202334.D
Acq On : 1 Jul 2024 7:43 pm
Operator : PrashanS
Sample : JD91339-6
Misc : MS82669,V1C8736,5.4,,,,1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.3 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

41	11.940	1597	1598	1604	rVB2	679	802	0.07%	0.013%
42	12.066	1616	1622	1630	rBV3	948	1916	0.17%	0.031%
43	12.437	1687	1693	1696	rBV2	534	800	0.07%	0.013%
44	13.023	1800	1805	1810	rBV2	389	585	0.05%	0.009%
45	13.363	1860	1870	1887	rBV	584338	980386	87.81%	15.726%
46	13.692	1929	1933	1937	rVB2	587	853	0.08%	0.014%
47	13.886	1965	1970	1973	rBV	485	617	0.06%	0.010%
48	14.356	2057	2060	2068	rVB4	1338	2134	0.19%	0.034%
49	14.519	2083	2091	2110	rBV	500433	776299	69.53%	12.453%
50	14.791	2136	2143	2147	rBV2	452	970	0.09%	0.016%
51	14.979	2177	2179	2184	rVB	501	682	0.06%	0.011%
52	15.089	2193	2200	2206	rVB4	1953	3861	0.35%	0.062%
53	15.230	2220	2227	2237	rBV3	807	1735	0.16%	0.028%
54	15.382	2248	2256	2266	rBV3	2271	4777	0.43%	0.077%
55	15.507	2273	2280	2286	rBV4	3188	4294	0.38%	0.069%
56	15.633	2293	2304	2306	rVV4	2833	6466	0.58%	0.104%
57	15.680	2306	2313	2330	rVB	650109	1009478	90.41%	16.193%
58	15.779	2330	2332	2335	rBV2	604	635	0.06%	0.010%
59	15.826	2335	2341	2348	rVB2	1140	1935	0.17%	0.031%
60	16.197	2405	2412	2424	rBV3	1516	4242	0.38%	0.068%
61	16.511	2466	2472	2476	rVB3	343	661	0.06%	0.011%
62	16.836	2531	2534	2540	rVB3	774	1375	0.12%	0.022%
63	16.961	2556	2558	2562	rBV2	474	610	0.05%	0.010%
64	17.066	2573	2578	2581	rBV3	621	715	0.06%	0.011%
65	17.348	2627	2632	2634	rVB2	741	1122	0.10%	0.018%
66	17.374	2634	2637	2640	rBV2	615	874	0.08%	0.014%
67	17.620	2682	2684	2689	rVV2	520	637	0.06%	0.010%
68	17.714	2699	2702	2706	rBV2	608	612	0.05%	0.010%
69	17.787	2712	2716	2718	rBV	617	566	0.05%	0.009%
70	17.908	2733	2739	2742	rVB3	1154	1394	0.12%	0.022%
71	18.070	2765	2770	2774	rVB3	547	750	0.07%	0.012%
72	18.096	2774	2775	2780	rBV2	594	628	0.06%	0.010%
73	18.154	2784	2786	2790	rBV2	826	1205	0.11%	0.019%
74	18.258	2803	2806	2811	rVB3	796	1081	0.10%	0.017%
75	18.310	2812	2816	2818	rVV2	502	630	0.06%	0.010%
76	18.331	2818	2820	2823	rVB2	698	581	0.05%	0.009%
77	18.368	2823	2827	2829	rBV3	686	800	0.07%	0.013%
78	18.420	2834	2837	2838	rBV2	799	598	0.05%	0.010%
79	18.446	2839	2842	2843	rVB2	717	599	0.05%	0.010%
80	18.462	2843	2845	2847	rVB2	757	569	0.05%	0.009%
81	18.488	2847	2850	2853	rBV	1573	1183	0.11%	0.019%
82	18.645	2876	2880	2882	rBV2	1004	1283	0.11%	0.021%
83	18.718	2889	2894	2896	rBV3	845	1345	0.12%	0.022%
84	18.750	2896	2900	2903	rVV4	1061	1009	0.09%	0.016%
85	18.792	2904	2908	2910	rVV4	794	753	0.07%	0.012%

LSC Area Percent Report

Data Path : X:\Dayton VOA GCMS\antonettec\2024\7. July\Jul-02-2024\V1C8736 hw\
Data File : 1C202334.D
Acq On : 1 Jul 2024 7:43 pm
Operator : PrashanS
Sample : JD91339-6
Misc : MS82669,V1C8736,5.4,,,,1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.3 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

86	18.833	2914	2916	2919	rBV3	845	977	0.09%	0.016%
87	18.912	2926	2931	2933	rVB3	1214	1699	0.15%	0.027%
88	18.949	2934	2938	2943	rBV7	1060	1539	0.14%	0.025%
89	18.990	2943	2946	2950	rBV3	802	1122	0.10%	0.018%
90	19.058	2954	2959	2961	rBV3	997	1601	0.14%	0.026%
91	19.137	2973	2974	2977	rBV	991	925	0.08%	0.015%
92	19.184	2979	2983	2986	rVV5	1258	1761	0.16%	0.028%
93	19.262	2992	2998	3001	rBV6	1715	2948	0.26%	0.047%
94	19.289	3001	3003	3005	rBV3	1374	876	0.08%	0.014%
95	19.451	3030	3034	3036	rBV5	1233	1459	0.13%	0.023%
96	19.477	3036	3039	3041	rBV3	1301	1478	0.13%	0.024%
97	19.503	3041	3044	3050	rBV6	1885	3234	0.29%	0.052%
98	19.587	3057	3060	3063	rBV4	2119	2682	0.24%	0.043%
99	19.618	3063	3066	3068	rBV4	2194	2231	0.20%	0.036%
100	19.895	3117	3119	3123	rBV4	1501	1329	0.12%	0.021%

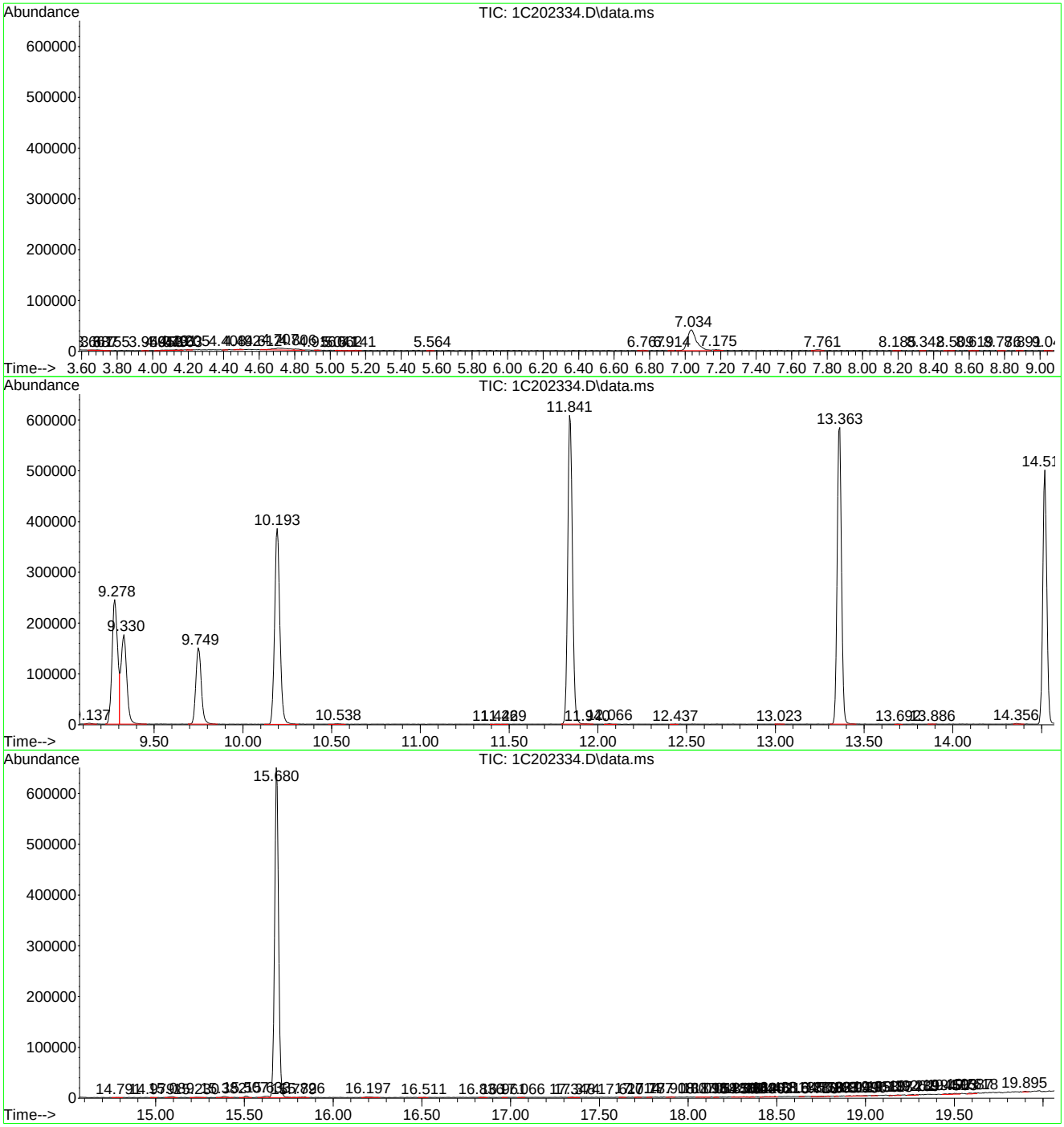
Sum of corrected areas: 6233992

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton VOA GCMS\antonettec\2024\7. July\Jul-02-2024\V1C8736 hw\
Data File : 1C202334.D
Acq On : 1 Jul 2024 7:43 pm
Operator : PrashanS
Sample : JD91339-6
Misc : MS82669,V1C8736,5.4,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p



Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton VOA GCMS\antonettec\2024\7. July\Jul-02-2024\V1C8736 hw\
Data File : 1C202334.D
Acq On : 1 Jul 2024 7:43 pm
Operator : PrashanS
Sample : JD91339-6
Misc : MS82669,V1C8736,5.4,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kenrickb\07-02-2024\V1C8736\
Data File : 1C202320.D
Acq On : 1 Jul 2024 1:35 pm
Operator : PrashanS
Sample : MB Inst : GCMS1C
Misc : MS82664,V1C8736,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 02 12:00:32 2024
Quant Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Jun 10 10:32:44 2024
Response via : Initial Calibration

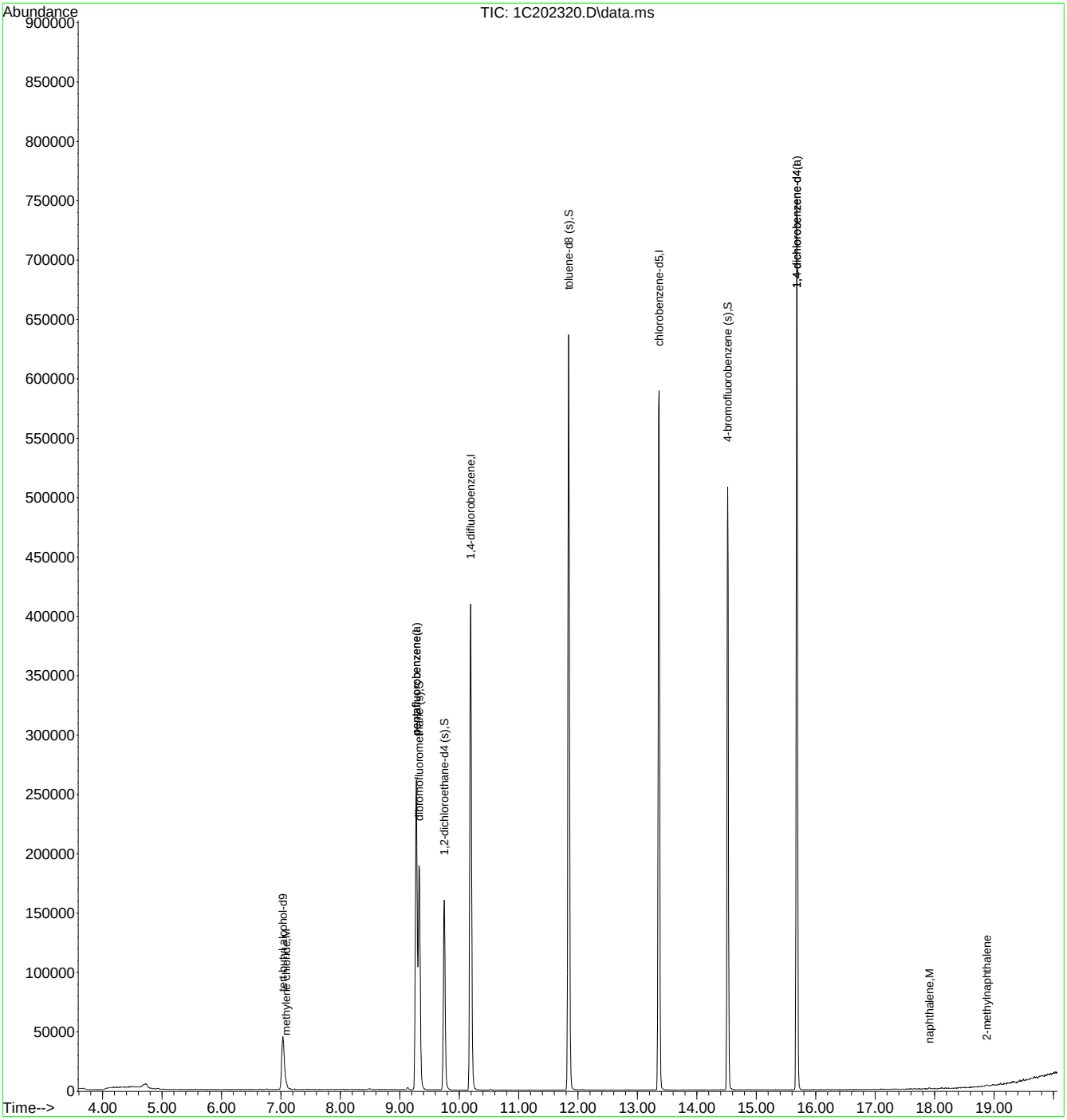
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.034	65	74282	500.00	ug/L	-0.01
5) pentafluorobenzene	9.278	168	224294	50.00	ug/L	0.00
51) 1,4-difluorobenzene	10.193	114	363769	50.00	ug/L	0.00
73) chlorobenzene-d5	13.363	117	308896	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.680	152	176745	50.00	ug/L	0.00
124) pentafluorobenzene(a)	9.278	168	224294	50.00	ug/L	0.00
126) 1,4-dichlorobenzene-d4(a)	15.680	152	176745	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.325	113	125301	54.56	ug/L	0.00
Spiked Amount 50.000	Range 80 - 124		Recovery = 109.12%			
52) 1,2-dichloroethane-d4 (s)	9.748	65	120633	50.41	ug/L	0.00
Spiked Amount 50.000	Range 75 - 133		Recovery = 100.82%			
74) toluene-d8 (s)	11.841	98	412728	51.58	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.16%			
97) 4-bromofluorobenzene (s)	14.518	95	147523	49.44	ug/L	0.00
Spiked Amount 50.000	Range 58 - 148		Recovery = 98.88%			
Target Compounds						Qvalue
22) methylene chloride	7.086	84	1118	0.6353	ug/L	91
120) naphthalene	17.913	128	834	0.1837	ug/L	69
123) 2-methylnaphthalene	18.880	142	404	1.8689	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

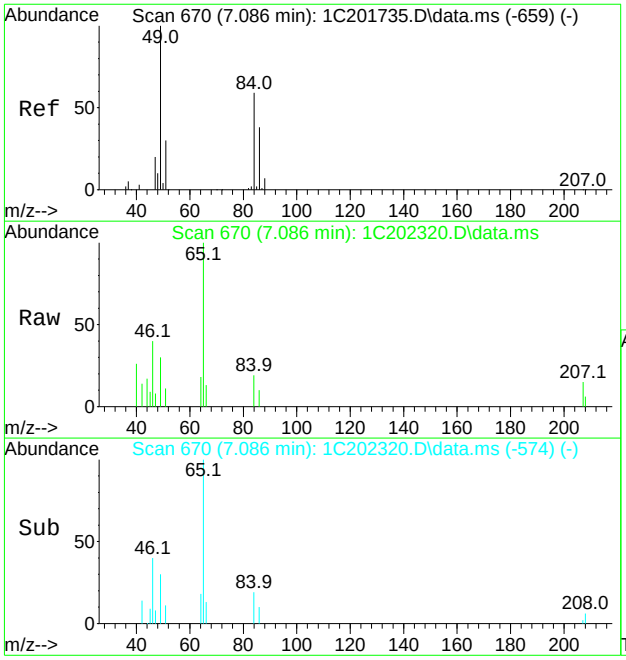
Data Path : X:\Dayton VOA GCMS\kenrickb\07-02-2024\V1C8736\
Data File : 1C202320.D
Acq On : 1 Jul 2024 1:35 pm
Operator : PrashanS
Sample : MB Inst : GCMS1C
Misc : MS82664,V1C8736,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 02 12:00:32 2024
Quant Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Mon Jun 10 10:32:44 2024
Response via : Initial Calibration



7.2.1

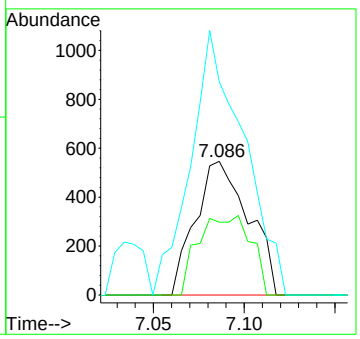
7

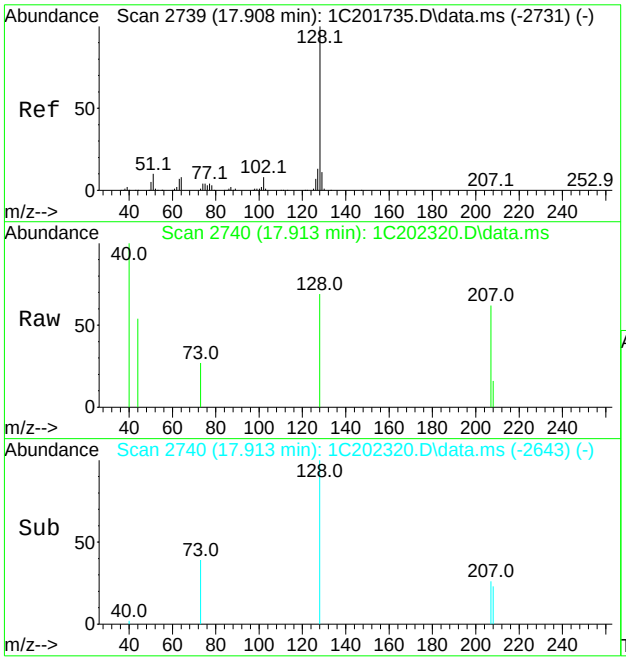


#22
methylene chloride
Concen: 0.6353 ug/L
RT: 7.086 min Scan# 670
Delta R.T. 0.000 min
Lab File: 1C202320.D
Acq: 1 Jul 2024 1:35 pm

Tgt Ion: 84 Resp: 1118

Ion	Ratio	Lower	Upper
84	100		
86	54.6	33.9	93.9
49	159.7	140.2	200.2

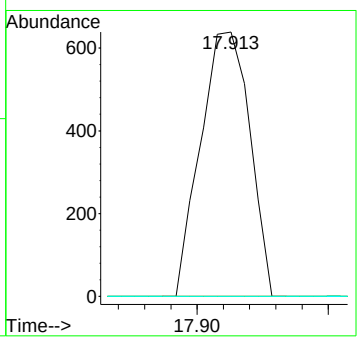


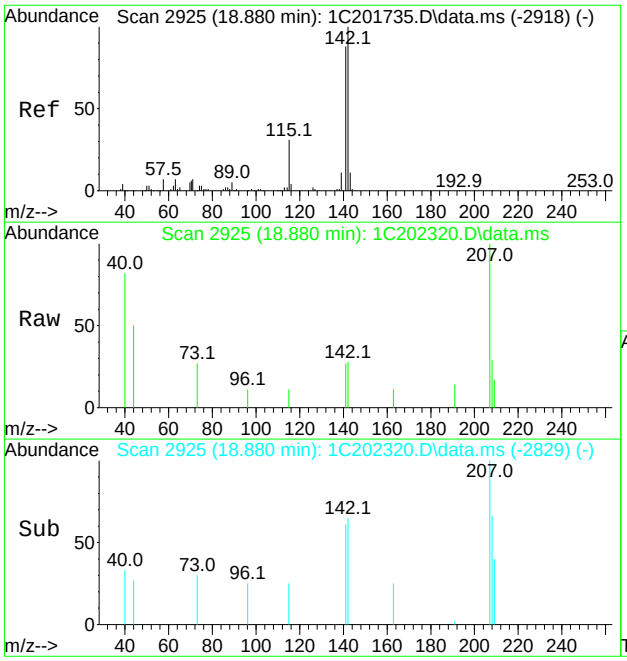


#120
naphthalene
Concen: 0.1837 ug/L
RT: 17.913 min Scan# 2740
Delta R.T. 0.005 min
Lab File: 1C202320.D
Acq: 1 Jul 2024 1:35 pm

Tgt Ion:128 Resp: 834

Ion	Ratio	Lower	Upper
128	100		
127	0.0	0.0	43.0
129	0.0	0.0	40.9

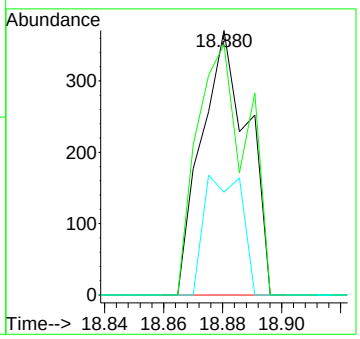




#123
2-methylnaphthalene
Concen: 1.8689 ug/L
RT: 18.880 min Scan# 2925
Delta R.T. 0.000 min
Lab File: 1C202320.D
Acq: 1 Jul 2024 1:35 pm

Tgt Ion:142 Resp: 404

Ion	Ratio	Lower	Upper
142	100		
141	94.6	67.6	107.6
115	38.8	11.3	51.3



7.2.1

7

LSC Area Percent Report

Data Path : X:\Dayton VOA GCMS\kenrickb\07-02-2024\V1C8736\
Data File : 1C202320.D
Acq On : 1 Jul 2024 1:35 pm
Operator : PrashanS
Sample : MB
Misc : MS82664,V1C8736,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.3 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

Signal : TIC: 1C202320.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.666	13	16	19	rBV2	620	637	0.05%	0.010%
2	3.755	31	33	38	rVB3	474	658	0.06%	0.010%
3	3.823	38	46	48	rVB2	346	650	0.06%	0.010%
4	4.063	82	92	93	rBV3	1493	2763	0.24%	0.042%
5	4.105	96	100	102	rVV2	1191	1810	0.16%	0.028%
6	4.152	102	109	111	rVV3	940	2338	0.20%	0.036%
7	4.178	111	114	117	rVV3	1002	1389	0.12%	0.021%
8	4.210	117	120	123	rVB4	769	1193	0.10%	0.018%
9	4.288	134	135	140	rBV3	747	1134	0.10%	0.017%
10	4.367	149	150	153	rBV2	889	877	0.08%	0.013%
11	4.455	165	167	169	rBV2	1105	642	0.06%	0.010%
12	4.503	174	176	183	rVV2	892	1100	0.09%	0.017%
13	4.644	201	203	205	rBV3	914	803	0.07%	0.012%
14	4.691	205	212	214	rBV3	2116	4024	0.35%	0.061%
15	4.863	242	245	250	rVB2	826	1131	0.10%	0.017%
16	4.937	250	259	266	rVB4	851	2598	0.22%	0.040%
17	5.653	393	396	400	rVB3	603	733	0.06%	0.011%
18	5.946	447	452	458	rBV3	401	900	0.08%	0.014%
19	6.302	511	520	522	rVB3	595	1000	0.09%	0.015%
20	6.364	526	532	535	rVB2	426	640	0.06%	0.010%
21	6.469	548	552	558	rVB3	681	1032	0.09%	0.016%
22	6.521	558	562	566	rBV3	434	638	0.06%	0.010%
23	6.642	584	585	592	rBV3	582	904	0.08%	0.014%
24	6.762	602	608	614	rVB3	810	1561	0.13%	0.024%
25	7.034	647	660	691	rVB2	44725	151873	13.11%	2.318%
26	7.452	737	740	743	rVB2	716	622	0.05%	0.009%
27	7.588	762	766	769	rBV3	405	628	0.05%	0.010%
28	7.620	769	772	777	rVB2	444	598	0.05%	0.009%
29	7.860	811	818	821	rVB3	325	578	0.05%	0.009%
30	8.498	935	940	945	rVB3	535	1208	0.10%	0.018%
31	8.619	957	963	970	rBV3	627	1425	0.12%	0.022%
32	8.906	1014	1018	1022	rBV3	457	748	0.06%	0.011%
33	9.136	1055	1062	1068	rBV5	1984	3967	0.34%	0.061%
34	9.278	1075	1089	1094	rBV	260857	580143	50.08%	8.856%
35	9.325	1094	1098	1121	rVB	188776	419170	36.18%	6.399%
36	9.748	1169	1179	1202	rVB	160353	338451	29.22%	5.166%
37	10.193	1253	1264	1285	rBV	409531	850111	73.38%	12.977%
38	10.528	1323	1328	1337	rBV4	992	2482	0.21%	0.038%
39	11.595	1527	1532	1534	rBV2	413	701	0.06%	0.011%
40	11.705	1546	1553	1556	rBV2	382	704	0.06%	0.011%

LSC Area Percent Report

Data Path : X:\Dayton VOA GCMS\kenrickb\07-02-2024\V1C8736\
Data File : 1C202320.D
Acq On : 1 Jul 2024 1:35 pm
Operator : PrashanS
Sample : MB
Misc : MS82664,V1C8736,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.3 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

41	11.841	1570	1579	1601	rBV	636232	1158434	100.00%	17.683%
42	11.961	1601	1602	1612	rVV3	646	832	0.07%	0.013%
43	12.065	1616	1622	1630	rVB3	871	1598	0.14%	0.024%
44	12.913	1776	1784	1786	rBV2	461	941	0.08%	0.014%
45	13.127	1822	1825	1832	rBV2	418	648	0.06%	0.010%
46	13.363	1856	1870	1889	rBV	589223	1017200	87.81%	15.527%
47	14.058	2000	2003	2006	rVB	578	576	0.05%	0.009%
48	14.152	2020	2021	2027	rVB2	469	626	0.05%	0.010%
49	14.518	2082	2091	2113	rVB	508274	814211	70.29%	12.429%
50	14.639	2113	2114	2123	rBV2	563	1003	0.09%	0.015%
51	14.712	2123	2128	2131	rBV2	437	583	0.05%	0.009%
52	14.895	2158	2163	2167	rVB2	420	713	0.06%	0.011%
53	15.371	2251	2254	2262	rBV	472	876	0.08%	0.013%
54	15.591	2294	2296	2303	rBV2	498	788	0.07%	0.012%
55	15.680	2303	2313	2325	rBV	750400	1111341	95.93%	16.964%
56	15.936	2355	2362	2364	rBV2	344	589	0.05%	0.009%
57	15.972	2364	2369	2373	rVV4	565	876	0.08%	0.013%
58	16.203	2403	2413	2421	rBV3	767	2574	0.22%	0.039%
59	16.605	2487	2490	2497	rVB2	615	1194	0.10%	0.018%
60	16.658	2497	2500	2504	rBV2	553	835	0.07%	0.013%
61	16.846	2532	2536	2541	rBV2	446	791	0.07%	0.012%
62	16.966	2555	2559	2563	rBV2	609	739	0.06%	0.011%
63	17.081	2574	2581	2584	rBV3	530	864	0.07%	0.013%
64	17.202	2601	2604	2608	rVB3	519	586	0.05%	0.009%
65	17.468	2649	2655	2661	rVB3	431	999	0.09%	0.015%
66	17.521	2661	2665	2669	rBV3	592	896	0.08%	0.014%
67	17.583	2675	2677	2682	rBV2	555	702	0.06%	0.011%
68	17.667	2686	2693	2697	rVB4	953	1831	0.16%	0.028%
69	17.709	2697	2701	2703	rBV2	587	860	0.07%	0.013%
70	17.735	2704	2706	2711	rVB2	730	641	0.06%	0.010%
71	17.813	2718	2721	2727	rVB2	623	1264	0.11%	0.019%
72	17.908	2734	2739	2743	rBV2	1367	1602	0.14%	0.024%
73	17.991	2750	2755	2762	rBV	643	904	0.08%	0.014%
74	18.054	2765	2767	2770	rBV	815	896	0.08%	0.014%
75	18.127	2777	2781	2785	rBV3	1101	1302	0.11%	0.020%
76	18.185	2786	2792	2794	rVB4	907	1092	0.09%	0.017%
77	18.342	2818	2822	2827	rVB4	803	1385	0.12%	0.021%
78	18.384	2827	2830	2835	rBV4	1184	1626	0.14%	0.025%
79	18.425	2835	2838	2841	rVB2	928	899	0.08%	0.014%
80	18.462	2841	2845	2847	rBV3	793	1044	0.09%	0.016%
81	18.561	2859	2864	2867	rBV3	683	1137	0.10%	0.017%
82	18.593	2867	2870	2871	rBV3	973	616	0.05%	0.009%
83	18.619	2874	2875	2879	rBV2	817	930	0.08%	0.014%
84	18.760	2896	2902	2906	rVV5	992	1674	0.14%	0.026%
85	18.807	2906	2911	2915	rBV4	980	1676	0.14%	0.026%

LSC Area Percent Report

Data Path : X:\Dayton VOA GCMS\kenrickb\07-02-2024\V1C8736\
Data File : 1C202320.D
Acq On : 1 Jul 2024 1:35 pm
Operator : PrashanS
Sample : MB
Misc : MS82664,V1C8736,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.3 Max Peaks: 100
Stop Thrs : 0.3 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

86	18.839	2915	2917	2920	rBV3	905	1003	0.09%	0.015%
87	18.886	2922	2926	2933	rVB5	1119	2356	0.20%	0.036%
88	18.948	2933	2938	2940	rBV3	909	1333	0.12%	0.020%
89	19.069	2960	2961	2964	rBV3	808	699	0.06%	0.011%
90	19.111	2964	2969	2972	rVV6	1570	1694	0.15%	0.026%
91	19.158	2976	2978	2981	rBV3	1222	837	0.07%	0.013%
92	19.184	2981	2983	2987	rVB4	1306	1365	0.12%	0.021%
93	19.220	2987	2990	2995	rBV4	1693	2909	0.25%	0.044%
94	19.273	2998	3000	3003	rBV3	979	891	0.08%	0.014%
95	19.309	3003	3007	3008	rBV4	1388	1585	0.14%	0.024%
96	19.320	3008	3009	3013	rBV4	1522	1684	0.15%	0.026%
97	19.435	3029	3031	3033	rBV3	1580	981	0.08%	0.015%
98	19.492	3039	3042	3048	rVB6	1787	1323	0.11%	0.020%
99	19.545	3049	3052	3054	rBV4	1561	1798	0.16%	0.027%
100	19.853	3109	3111	3115	rBV4	2029	2578	0.22%	0.039%

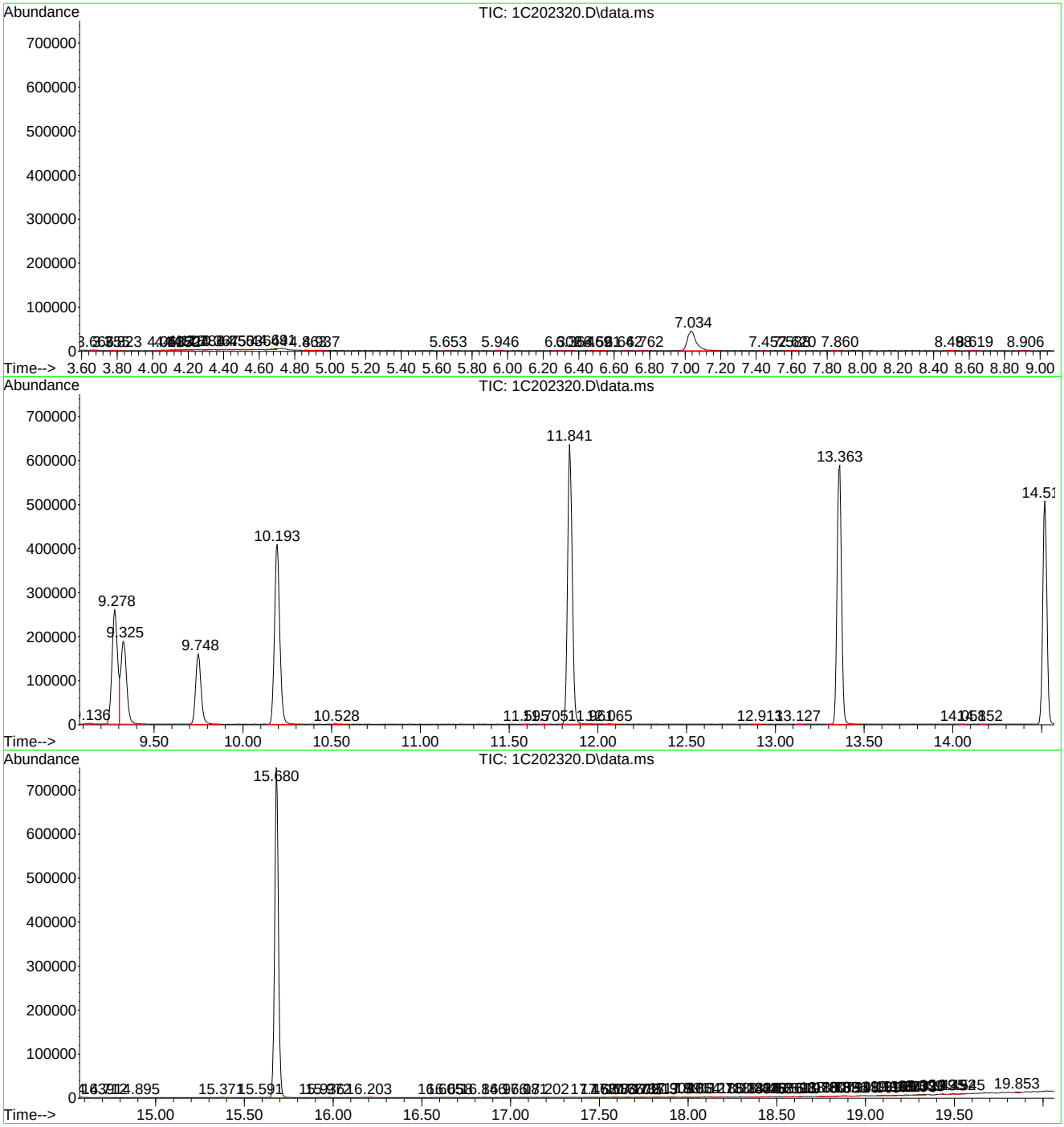
Sum of corrected areas: 6550994

LSC Report - Integrated Chromatogram

```
Data Path : X:\Dayton VOA GCMS\kenrickb\07-02-2024\V1C8736\
Data File : 1C202320.D
Acq On    :  1 Jul 2024    1:35 pm
Operator  : PrashanS
Sample    : MB
Misc      : MS82664,V1C8736,5.0,,,,1
ALS Vial  : 6   Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Quant Title  : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library   : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p
```



Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton VOA GCMS\kenrickb\07-02-2024\V1C8736\
Data File : 1C202320.D
Acq On : 1 Jul 2024 1:35 pm
Operator : PrashanS
Sample : MB
Misc : MS82664,V1C8736,5.0,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1C8714.M
Quant Title : SW846 8260C/D, DB-624 60 m x 0.25 mm x 1.4 um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55776-MB1	P160657A.D	1	07/02/24	KM	07/01/24	OP55776	EP7514

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-12

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	5.0	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	4.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	
105-60-2	Caprolactam	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	

Method Blank Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55776-MB1	P160657A.D	1	07/02/24	KM	07/01/24	OP55776	EP7514

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-12

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

Method Blank Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55776-MB1	P160657A.D	1	07/02/24	KM	07/01/24	OP55776	EP7514

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-12

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	49%	10-71%
4165-62-2	Phenol-d5	39%	10-58%
118-79-6	2,4,6-Tribromophenol	69%	22-144%
4165-60-0	Nitrobenzene-d5	73%	28-118%
321-60-8	2-Fluorobiphenyl	69%	34-116%
1718-51-0	Terphenyl-d14	39%	10-127%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	System artifact	2.48	4.3	ug/l	J
	Internal standard added for SIM test	6.09	4.1	ug/l	J
	Internal standard added for SIM test	7.49	4.1	ug/l	J
	Internal standard added for SIM test	10.93	4.2	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55800-MB1	CT7970.D	1	07/03/24	KM	07/02/24	OP55800	ECT375

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	28	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	36	ug/kg	
95-48-7	2-Methylphenol	ND	67	21	ug/kg	
	3&4-Methylphenol	ND	67	27	ug/kg	
88-75-5	2-Nitrophenol	ND	170	22	ug/kg	
100-02-7	4-Nitrophenol	ND	330	89	ug/kg	
87-86-5	Pentachlorophenol	ND	130	31	ug/kg	
108-95-2	Phenol	ND	67	17	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	25	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
98-86-2	Acetophenone	ND	170	7.2	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
1912-24-9	Atrazine	ND	67	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	8.1	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	7.9	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	67	4.8	ug/kg	
105-60-2	Caprolactam	ND	67	13	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	14	ug/kg	

Method Blank Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55800-MB1	CT7970.D	1	07/03/24	KM	07/02/24	OP55800	ECT375

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	67	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	10	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	28	ug/kg	
123-91-1	1,4-Dioxane	ND	33	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
132-64-9	Dibenzofuran	ND	67	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	5.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	8.3	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	5.9	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.8	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	13	ug/kg	
67-72-1	Hexachloroethane	ND	170	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
78-59-1	Isophorone	ND	67	7.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	33	7.5	ug/kg	
88-74-4	2-Nitroaniline	ND	170	7.9	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.3	ug/kg	
100-01-6	4-Nitroaniline	ND	170	8.6	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
98-95-3	Nitrobenzene	ND	67	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	9.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	12	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.5	ug/kg	

Method Blank Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55800-MB1	CT7970.D	1	07/03/24	KM	07/02/24	OP55800	ECT375

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	75%	10-99%
4165-62-2	Phenol-d5	79%	10-96%
118-79-6	2,4,6-Tribromophenol	89%	10-123%
4165-60-0	Nitrobenzene-d5	76%	10-109%
321-60-8	2-Fluorobiphenyl	82%	11-109%
1718-51-0	Terphenyl-d14	93%	10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Internal standard for SIM test	4.76	140	ug/kg	J
	Internal stantard for SIM test	5.88	140	ug/kg	J
	Internal standard for SIM test	11.34	140	ug/kg	J
	Total TIC, Semi-Volatile		140	ug/kg	J

Method Blank Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55822-MB1	3E125101.D	1	07/03/24	AO	07/02/24	OP55822	E3E5817

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-13, JD91339-14

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	28	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	36	ug/kg	
95-48-7	2-Methylphenol	ND	67	21	ug/kg	
	3&4-Methylphenol	ND	67	27	ug/kg	
88-75-5	2-Nitrophenol	ND	170	22	ug/kg	
100-02-7	4-Nitrophenol	ND	330	89	ug/kg	
87-86-5	Pentachlorophenol	ND	130	31	ug/kg	
108-95-2	Phenol	ND	67	17	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	25	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
98-86-2	Acetophenone	ND	170	7.2	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
1912-24-9	Atrazine	ND	67	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	8.1	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	7.9	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	67	4.8	ug/kg	
105-60-2	Caprolactam	ND	67	13	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	14	ug/kg	

Method Blank Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55822-MB1	3E125101.D	1	07/03/24	AO	07/02/24	OP55822	E3E5817

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-13, JD91339-14

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	67	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	10	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	28	ug/kg	
123-91-1	1,4-Dioxane	ND	33	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
132-64-9	Dibenzofuran	ND	67	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	5.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	8.3	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	5.9	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.8	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	13	ug/kg	
67-72-1	Hexachloroethane	ND	170	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
78-59-1	Isophorone	ND	67	7.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	33	7.5	ug/kg	
88-74-4	2-Nitroaniline	ND	170	7.9	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.3	ug/kg	
100-01-6	4-Nitroaniline	ND	170	8.6	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
98-95-3	Nitrobenzene	ND	67	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	9.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	12	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.5	ug/kg	

Method Blank Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55822-MB1	3E125101.D	1	07/03/24	AO	07/02/24	OP55822	E3E5817

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-13, JD91339-14

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	53%	10-99%
4165-62-2	Phenol-d5	59%	10-96%
118-79-6	2,4,6-Tribromophenol	70%	10-123%
4165-60-0	Nitrobenzene-d5	61%	10-109%
321-60-8	2-Fluorobiphenyl	64%	11-109%
1718-51-0	Terphenyl-d14	69%	10-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55800-BS1	CT7971.D	1	07/03/24	KM	07/02/24	OP55800	ECT375

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1160	70	10-135
59-50-7	4-Chloro-3-methyl phenol	1670	1250	75	10-141
120-83-2	2,4-Dichlorophenol	1670	1220	73	10-139
105-67-9	2,4-Dimethylphenol	1670	1220	73	10-141
51-28-5	2,4-Dinitrophenol	3330	1700	51	10-138
534-52-1	4,6-Dinitro-o-cresol	1670	1280	77	10-156
95-48-7	2-Methylphenol	1670	1090	65	10-139
	3&4-Methylphenol	3330	2120	64	10-174
88-75-5	2-Nitrophenol	1670	1430	86	10-142
100-02-7	4-Nitrophenol	1670	1080	65	10-144
87-86-5	Pentachlorophenol	3330	2550	77	10-165
108-95-2	Phenol	1670	1060	64	23-115
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1420	85	10-146
95-95-4	2,4,5-Trichlorophenol	1670	1330	80	13-136
88-06-2	2,4,6-Trichlorophenol	1670	1360	82	10-142
83-32-9	Acenaphthene	1670	1200	72	10-141
208-96-8	Acenaphthylene	1670	1270	76	10-133
98-86-2	Acetophenone	1670	1040	62	23-115
120-12-7	Anthracene	1670	1330	80	10-144
1912-24-9	Atrazine	1670	1480	89	17-149
56-55-3	Benzo(a)anthracene	1670	1260	76	11-139
50-32-8	Benzo(a)pyrene	1670	1370	82	13-141
205-99-2	Benzo(b)fluoranthene	1670	1310	79	14-140
191-24-2	Benzo(g,h,i)perylene	1670	1370	82	13-138
207-08-9	Benzo(k)fluoranthene	1670	1190	71	12-140
101-55-3	4-Bromophenyl phenyl ether	1670	1340	80	10-146
85-68-7	Butyl benzyl phthalate	1670	1320	79	10-150
92-52-4	1,1'-Biphenyl	1670	1180	71	10-141
100-52-7	Benzaldehyde	1670	992	60	10-146
91-58-7	2-Chloronaphthalene	1670	1170	70	10-142
106-47-8	4-Chloroaniline	1670	576	35	10-108
86-74-8	Carbazole	1670	1290	77	10-145
105-60-2	Caprolactam	1670	1390	83	10-187
218-01-9	Chrysene	1670	1260	76	11-139
111-91-1	bis(2-Chloroethoxy)methane	1670	1130	68	10-144
111-44-4	bis(2-Chloroethyl)ether	1670	1280	77	10-145

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55800-BS1	CT7971.D	1	07/03/24	KM	07/02/24	OP55800	ECT375

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	2,2'-Oxybis(1-chloropropane)	1670	1010	61	10-145
7005-72-3	4-Chlorophenyl phenyl ether	1670	1270	76	10-145
121-14-2	2,4-Dinitrotoluene	1670	1220	73	10-148
606-20-2	2,6-Dinitrotoluene	1670	1230	74	12-145
91-94-1	3,3'-Dichlorobenzidine	1670	808	48	10-100
123-91-1	1,4-Dioxane	1670	669	40	10-97
53-70-3	Dibenzo(a,h)anthracene	1670	1350	81	14-142
132-64-9	Dibenzofuran	1670	1180	71	10-140
84-74-2	Di-n-butyl phthalate	1670	1430	86	11-147
117-84-0	Di-n-octyl phthalate	1670	1310	79	15-145
84-66-2	Diethyl phthalate	1670	1280	77	10-145
131-11-3	Dimethyl phthalate	1670	1250	75	10-144
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1270	76	26-132
206-44-0	Fluoranthene	1670	1350	81	10-147
86-73-7	Fluorene	1670	1220	73	12-139
118-74-1	Hexachlorobenzene	1670	1360	82	10-144
87-68-3	Hexachlorobutadiene	1670	1200	72	10-142
77-47-4	Hexachlorocyclopentadiene	3330	1620	49	10-120
67-72-1	Hexachloroethane	1670	1130	68	10-141
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1390	83	13-144
78-59-1	Isophorone	1670	1150	69	10-139
91-57-6	2-Methylnaphthalene	1670	1120	67	10-140
88-74-4	2-Nitroaniline	1670	1320	79	10-148
99-09-2	3-Nitroaniline	1670	752	45	10-127
100-01-6	4-Nitroaniline	1670	1120	67	10-143
91-20-3	Naphthalene	1670	1110	67	10-141
98-95-3	Nitrobenzene	1670	1120	67	10-139
621-64-7	N-Nitroso-di-n-propylamine	1670	1120	67	10-143
86-30-6	N-Nitrosodiphenylamine	1670	1300	78	10-145
85-01-8	Phenanthrene	1670	1220	73	10-142
129-00-0	Pyrene	1670	1300	78	13-141
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1230	74	10-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55800-BS1	CT7971.D	1	07/03/24	KM	07/02/24	OP55800	ECT375

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	63%	10-99%
4165-62-2	Phenol-d5	64%	10-96%
118-79-6	2,4,6-Tribromophenol	89%	10-123%
4165-60-0	Nitrobenzene-d5	72%	10-109%
321-60-8	2-Fluorobiphenyl	72%	11-109%
1718-51-0	Terphenyl-d14	81%	10-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55822-BS1	3E125102.D	1	07/03/24	AO	07/02/24	OP55822	E3E5817

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-13, JD91339-14

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1260	76	10-135
59-50-7	4-Chloro-3-methyl phenol	1670	1440	86	10-141
120-83-2	2,4-Dichlorophenol	1670	1400	84	10-139
105-67-9	2,4-Dimethylphenol	1670	1320	79	10-141
51-28-5	2,4-Dinitrophenol	3330	3020	91	10-138
534-52-1	4,6-Dinitro-o-cresol	1670	1690	101	10-156
95-48-7	2-Methylphenol	1670	1320	79	10-139
	3&4-Methylphenol	3330	2670	80	10-174
88-75-5	2-Nitrophenol	1670	1530	92	10-142
100-02-7	4-Nitrophenol	1670	1390	83	10-144
87-86-5	Pentachlorophenol	3330	2670	80	10-165
108-95-2	Phenol	1670	1340	80	23-115
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1340	80	10-146
95-95-4	2,4,5-Trichlorophenol	1670	1420	85	13-136
88-06-2	2,4,6-Trichlorophenol	1670	1350	81	10-142
83-32-9	Acenaphthene	1670	1280	77	10-141
208-96-8	Acenaphthylene	1670	1310	79	10-133
98-86-2	Acetophenone	1670	1140	68	23-115
120-12-7	Anthracene	1670	1350	81	10-144
1912-24-9	Atrazine	1670	1370	82	17-149
56-55-3	Benzo(a)anthracene	1670	1300	78	11-139
50-32-8	Benzo(a)pyrene	1670	1370	82	13-141
205-99-2	Benzo(b)fluoranthene	1670	1330	80	14-140
191-24-2	Benzo(g,h,i)perylene	1670	1490	89	13-138
207-08-9	Benzo(k)fluoranthene	1670	1350	81	12-140
101-55-3	4-Bromophenyl phenyl ether	1670	1380	83	10-146
85-68-7	Butyl benzyl phthalate	1670	1510	91	10-150
92-52-4	1,1'-Biphenyl	1670	1230	74	10-141
100-52-7	Benzaldehyde	1670	980	59	10-146
91-58-7	2-Chloronaphthalene	1670	1220	73	10-142
106-47-8	4-Chloroaniline	1670	344	21	10-108
86-74-8	Carbazole	1670	1300	78	10-145
105-60-2	Caprolactam	1670	1900	114	10-187
218-01-9	Chrysene	1670	1340	80	11-139
111-91-1	bis(2-Chloroethoxy)methane	1670	1200	72	10-144
111-44-4	bis(2-Chloroethyl)ether	1670	1130	68	10-145

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55822-BS1	3E125102.D	1	07/03/24	AO	07/02/24	OP55822	E3E5817

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-13, JD91339-14

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	2,2'-Oxybis(1-chloropropane)	1670	1140	68	10-145
7005-72-3	4-Chlorophenyl phenyl ether	1670	1280	77	10-145
121-14-2	2,4-Dinitrotoluene	1670	1440	86	10-148
606-20-2	2,6-Dinitrotoluene	1670	1470	88	12-145
91-94-1	3,3'-Dichlorobenzidine	1670	868	52	10-100
123-91-1	1,4-Dioxane	1670	588	35	10-97
53-70-3	Dibenzo(a,h)anthracene	1670	1470	88	14-142
132-64-9	Dibenzofuran	1670	1290	77	10-140
84-74-2	Di-n-butyl phthalate	1670	1350	81	11-147
117-84-0	Di-n-octyl phthalate	1670	1490	89	15-145
84-66-2	Diethyl phthalate	1670	1290	77	10-145
131-11-3	Dimethyl phthalate	1670	1300	78	10-144
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1550	93	26-132
206-44-0	Fluoranthene	1670	1370	82	10-147
86-73-7	Fluorene	1670	1330	80	12-139
118-74-1	Hexachlorobenzene	1670	1280	77	10-144
87-68-3	Hexachlorobutadiene	1670	1170	70	10-142
77-47-4	Hexachlorocyclopentadiene	3330	2680	80	10-120
67-72-1	Hexachloroethane	1670	1070	64	10-141
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1500	90	13-144
78-59-1	Isophorone	1670	1240	74	10-139
91-57-6	2-Methylnaphthalene	1670	1290	77	10-140
88-74-4	2-Nitroaniline	1670	1570	94	10-148
99-09-2	3-Nitroaniline	1670	773	46	10-127
100-01-6	4-Nitroaniline	1670	1450	87	10-143
91-20-3	Naphthalene	1670	1200	72	10-141
98-95-3	Nitrobenzene	1670	1220	73	10-139
621-64-7	N-Nitroso-di-n-propylamine	1670	1230	74	10-143
86-30-6	N-Nitrosodiphenylamine	1670	1400	84	10-145
85-01-8	Phenanthrene	1670	1320	79	10-142
129-00-0	Pyrene	1670	1190	71	13-141
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1190	71	10-143

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55822-BS1	3E125102.D	1	07/03/24	AO	07/02/24	OP55822	E3E5817

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-13, JD91339-14

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	69%	10-99%
4165-62-2	Phenol-d5	74%	10-96%
118-79-6	2,4,6-Tribromophenol	85%	10-123%
4165-60-0	Nitrobenzene-d5	76%	10-109%
321-60-8	2-Fluorobiphenyl	75%	11-109%
1718-51-0	Terphenyl-d14	68%	10-120%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55776-BS1	P160658A.D	1	07/02/24	KM	07/01/24	OP55776	EP7514
OP55776-BSD	P160659A.D	1	07/02/24	KM	07/01/24	OP55776	EP7514

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	50	29.8	60	33.8	68	13	17-111/59
59-50-7	4-Chloro-3-methyl phenol	50	34.8	70	38.5	77	10	30-118/47
120-83-2	2,4-Dichlorophenol	50	33.0	66	37.8	76	14	30-119/50
105-67-9	2,4-Dimethylphenol	50	33.3	67	35.0	70	5	20-114/49
51-28-5	2,4-Dinitrophenol	100	78.4	78	89.9	90	14	11-141/72
534-52-1	4,6-Dinitro-o-cresol	50	37.6	75	45.5	91	19	30-142/51
95-48-7	2-Methylphenol	50	27.4	55	30.1	60	9	10-110/56
	3&4-Methylphenol	100	52.1	52	57.7	58	10	10-164/59
88-75-5	2-Nitrophenol	50	35.9	72	40.1	80	11	33-123/49
100-02-7	4-Nitrophenol	50	19.9	40	21.2	42	6	10-84/61
87-86-5	Pentachlorophenol	100	54.2	54	65.9	66	19	10-171/41
108-95-2	Phenol	50	16.3	33	16.6	33	2	10-85/57
58-90-2	2,3,4,6-Tetrachlorophenol	50	31.8	64	36.6	73	14	36-130/44
95-95-4	2,4,5-Trichlorophenol	50	33.5	67	38.3	77	13	38-124/44
88-06-2	2,4,6-Trichlorophenol	50	33.5	67	38.2	76	13	37-122/46
83-32-9	Acenaphthene	50	40.0	80	35.8	72	11	52-115/30
208-96-8	Acenaphthylene	50	41.1	82	36.5	73	12	30-114/31
98-86-2	Acetophenone	50	43.5	87	39.0	78	11	40-115/39
120-12-7	Anthracene	50	42.6	85	41.1	82	4	55-122/29
1912-24-9	Atrazine	50	43.7	87	42.5	85	3	54-140/33
100-52-7	Benzaldehyde	50	38.0	76	36.0	72	5	35-121/35
56-55-3	Benzo(a)anthracene	50	38.9	78	39.2	78	1	55-122/29
50-32-8	Benzo(a)pyrene	50	39.2	78	40.7	81	4	50-123/30
205-99-2	Benzo(b)fluoranthene	50	40.8	82	41.5	83	2	57-124/28
191-24-2	Benzo(g,h,i)perylene	50	41.0	82	41.9	84	2	55-125/30
207-08-9	Benzo(k)fluoranthene	50	39.3	79	39.5	79	1	53-124/28
101-55-3	4-Bromophenyl phenyl ether	50	41.1	82	39.7	79	3	55-124/29
85-68-7	Butyl benzyl phthalate	50	46.8	94	45.3	91	3	54-134/29
92-52-4	1,1'-Biphenyl	50	36.9	74	32.6	65	12	46-115/32
91-58-7	2-Chloronaphthalene	50	36.2	72	32.8	66	10	44-113/32
106-47-8	4-Chloroaniline	50	26.2	52	22.0	44	17	10-100/92
86-74-8	Carbazole	50	45.4	91	43.0	86	5	56-123/29
105-60-2	Caprolactam	50	12.1	24	11.8	24	3	10-85/35
218-01-9	Chrysene	50	39.6	79	39.5	79	0	54-122/29
111-91-1	bis(2-Chloroethoxy)methane	50	42.2	84	37.9	76	11	39-116/36
111-44-4	bis(2-Chloroethyl)ether	50	40.8	82	37.6	75	8	31-118/45

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55776-BS1	P160658A.D	1	07/02/24	KM	07/01/24	OP55776	EP7514
OP55776-BSD	P160659A.D	1	07/02/24	KM	07/01/24	OP55776	EP7514

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
108-60-1	2,2'-Oxybis(1-chloropropane)	50	42.1	84	38.5	77	9	34-117/43
7005-72-3	4-Chlorophenyl phenyl ether	50	40.3	81	38.6	77	4	53-119/28
121-14-2	2,4-Dinitrotoluene	50	47.3	95	45.3	91	4	58-129/29
606-20-2	2,6-Dinitrotoluene	50	46.9	94	44.3	89	6	56-128/30
91-94-1	3,3'-Dichlorobenzidine	50	35.2	70	33.0	66	6	23-122/44
123-91-1	1,4-Dioxane	50	16.5	33	13.9	28	17	10-88/49
53-70-3	Dibenzo(a,h)anthracene	50	40.7	81	41.6	83	2	55-127/29
132-64-9	Dibenzofuran	50	40.7	81	37.3	75	9	53-116/29
84-74-2	Di-n-butyl phthalate	50	47.4	95	46.1	92	3	57-129/30
117-84-0	Di-n-octyl phthalate	50	43.1	86	44.1	88	2	45-139/28
84-66-2	Diethyl phthalate	50	46.9	94	44.9	90	4	53-123/30
131-11-3	Dimethyl phthalate	50	44.4	89	42.3	85	5	50-122/35
117-81-7	bis(2-Ethylhexyl)phthalate	50	40.0	80	40.8	82	2	49-137/30
206-44-0	Fluoranthene	50	44.8	90	43.6	87	3	58-125/30
86-73-7	Fluorene	50	42.5	85	39.4	79	8	56-119/28
118-74-1	Hexachlorobenzene	50	38.4	77	37.7	75	2	53-125/29
87-68-3	Hexachlorobutadiene	50	30.4	61	26.7	53	13	21-109/47
77-47-4	Hexachlorocyclopentadiene	100	58.7	59	56.1	56	5	10-96/52
67-72-1	Hexachloroethane	50	29.9	60	27.6	55	8	19-105/40
193-39-5	Indeno(1,2,3-cd)pyrene	50	40.6	81	41.7	83	3	50-132/30
78-59-1	Isophorone	50	41.8	84	37.9	76	10	41-117/33
91-57-6	2-Methylnaphthalene	50	37.4	75	33.2	66	12	41-112/35
88-74-4	2-Nitroaniline	50	46.3	93	40.5	81	13	48-128/31
99-09-2	3-Nitroaniline	50	37.8	76	34.2	68	10	30-115/51
100-01-6	4-Nitroaniline	50	45.8	92	42.3	85	8	43-121/34
91-20-3	Naphthalene	50	36.8	74	32.6	65	12	37-112/39
98-95-3	Nitrobenzene	50	40.3	81	36.6	73	10	35-119/39
621-64-7	N-Nitroso-di-n-propylamine	50	44.5	89	41.1	82	8	34-121/36
86-30-6	N-Nitrosodiphenylamine	50	41.1	82	39.6	79	4	52-121/29
85-01-8	Phenanthrene	50	42.3	85	40.2	80	5	56-121/28
129-00-0	Pyrene	50	40.7	81	40.9	82	0	55-125/29
95-94-3	1,2,4,5-Tetrachlorobenzene	50	31.8	64	28.7	57	10	40-110/35

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55776-BS1	P160658A.D	1	07/02/24	KM	07/01/24	OP55776	EP7514
OP55776-BSD	P160659A.D	1	07/02/24	KM	07/01/24	OP55776	EP7514

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-12

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	37%	40%	10-71%
4165-62-2	Phenol-d5	28%	29%	10-58%
118-79-6	2,4,6-Tribromophenol	64%	78%	22-144%
4165-60-0	Nitrobenzene-d5	87%	76%	28-118%
321-60-8	2-Fluorobiphenyl	81%	74%	34-116%
1718-51-0	Terphenyl-d14	41%	49%	10-127%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55800-MS	CT7987.D	1	07/03/24	KM	07/02/24	OP55800	ECT375
OP55800-MSD	CT7988.D	1	07/03/24	KM	07/02/24	OP55800	ECT375
JD91339-1	CT7975.D	1	07/03/24	KM	07/02/24	OP55800	ECT375

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

CAS No.	Compound	JD91339-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		3460	1730	50	3620	1720	48	1	10-137/86
59-50-7	4-Chloro-3-methyl phenol	ND		3460	1730	50	3620	1750	48	1	10-146/84
120-83-2	2,4-Dichlorophenol	ND		3460	1770	51	3620	1790	50	1	10-145/86
105-67-9	2,4-Dimethylphenol	ND		3460	1840	53	3620	1840	51	0	10-148/87
51-28-5	2,4-Dinitrophenol	ND		6920	1540	22	7230	1350	19	13	10-118/90
534-52-1	4,6-Dinitro-o-cresol	ND		3460	1110	32	3620	1000	28	10	10-131/97
95-48-7	2-Methylphenol	ND		3460	1640	47	3620	1620	45	1	10-143/86
	3&4-Methylphenol	ND		6920	3190	46	7230	3160	44	1	10-162/87
88-75-5	2-Nitrophenol	ND		3460	2090	60	3620	2130	59	2	10-147/93
100-02-7	4-Nitrophenol	ND		3460	1500	43	3620	1680	46	11	10-152/85
87-86-5	Pentachlorophenol	ND		6920	3610	52	7230	3660	51	1	10-146/89
108-95-2	Phenol	ND		3460	1640	47	3620	1600	44	2	10-118/84
58-90-2	2,3,4,6-Tetrachlorophenol	ND		3460	1930	56	3620	1940	54	1	10-139/87
95-95-4	2,4,5-Trichlorophenol	ND		3460	1950	56	3620	1940	54	1	10-140/86
88-06-2	2,4,6-Trichlorophenol	ND		3460	2010	58	3620	2030	56	1	10-141/86
83-32-9	Acenaphthene	ND		3460	1780	51	3620	1810	50	2	10-156/87
208-96-8	Acenaphthylene	ND		3460	1920	56	3620	1890	52	2	10-143/84
98-86-2	Acetophenone	ND		3460	1550	45	3620	1550	43	0	10-130/90
120-12-7	Anthracene	ND		3460	1830	53	3620	1840	51	1	10-166/88
1912-24-9	Atrazine	ND		3460	2010	58	3620	2070	57	3	10-148/86
56-55-3	Benzo(a)anthracene	57.1	J	3460	1740	49	3620	1720	46	1	10-163/88
50-32-8	Benzo(a)pyrene	70.1	J	3460	1840	51	3620	1800	48	2	10-163/89
205-99-2	Benzo(b)fluoranthene	85.5		3460	1680	46	3620	1740	46	4	10-156/91
191-24-2	Benzo(g,h,i)perylene	61.0	J	3460	1900	53	3620	1840	49	3	10-158/89
207-08-9	Benzo(k)fluoranthene	ND		3460	1590	46	3620	1560	43	2	10-157/86
101-55-3	4-Bromophenyl phenyl ether	ND		3460	1940	56	3620	1920	53	1	10-143/87
85-68-7	Butyl benzyl phthalate	115	J	3460	1820	49	3620	1800	47	1	10-161/89
92-52-4	1,1'-Biphenyl	ND		3460	1790	52	3620	1800	50	1	10-143/86
100-52-7	Benzaldehyde	ND		3460	1480	43	3620	1490	41	1	10-148/88
91-58-7	2-Chloronaphthalene	ND		3460	1780	51	3620	1810	50	2	10-145/86
106-47-8	4-Chloroaniline	ND		3460	691	20	3620	796	22	14	10-109/87
86-74-8	Carbazole	ND		3460	1730	50	3620	1760	49	2	10-158/87
105-60-2	Caprolactam	ND		3460	1640	47	3620	1750	48	6	10-150/82
218-01-9	Chrysene	69.5	J	3460	1770	49	3620	1780	47	1	10-164/87
111-91-1	bis(2-Chloroethoxy)methane	ND		3460	1680	49	3620	1680	46	0	10-152/86
111-44-4	bis(2-Chloroethyl)ether	ND		3460	1890	55	3620	1900	53	1	10-147/86

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55800-MS	CT7987.D	1	07/03/24	KM	07/02/24	OP55800	ECT375
OP55800-MSD	CT7988.D	1	07/03/24	KM	07/02/24	OP55800	ECT375
JD91339-1	CT7975.D	1	07/03/24	KM	07/02/24	OP55800	ECT375

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

CAS No.	Compound	JD91339-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	2,2'-Oxybis(1-chloropropane)	ND		3460	1470	43	3620	1560	43	6	10-134/88
7005-72-3	4-Chlorophenyl phenyl ether	ND		3460	1900	55	3620	1840	51	3	10-142/87
121-14-2	2,4-Dinitrotoluene	ND		3460	1680	49	3620	1640	45	2	10-147/86
606-20-2	2,6-Dinitrotoluene	ND		3460	1800	52	3620	1780	49	1	10-147/88
91-94-1	3,3'-Dichlorobenzidine	ND		3460	312	9* [a]	3620	476	13	42	10-106/93
123-91-1	1,4-Dioxane	ND		3460	988	29	3620	1100	30	11	10-102/85
53-70-3	Dibenzo(a,h)anthracene	ND		3460	1920	56	3620	1860	51	3	10-149/89
132-64-9	Dibenzofuran	ND		3460	1750	51	3620	1770	49	1	10-155/86
84-74-2	Di-n-butyl phthalate	ND		3460	2020	58	3620	2000	55	1	10-158/86
117-84-0	Di-n-octyl phthalate	ND		3460	1630	47	3620	1580	44	3	10-154/84
84-66-2	Diethyl phthalate	ND		3460	1860	54	3620	1840	51	1	10-148/84
131-11-3	Dimethyl phthalate	ND		3460	1850	53	3620	1860	51	1	10-144/85
117-81-7	bis(2-Ethylhexyl)phthalate	123	J	3460	1740	47	3620	1710	44	2	10-153/84
206-44-0	Fluoranthene	143		3460	1880	50	3620	1870	48	1	10-165/93
86-73-7	Fluorene	ND		3460	1810	52	3620	1820	50	1	10-158/87
118-74-1	Hexachlorobenzene	ND		3460	1890	55	3620	1890	52	0	10-139/85
87-68-3	Hexachlorobutadiene	ND		3460	1780	51	3620	1810	50	2	10-139/88
77-47-4	Hexachlorocyclopentadiene	ND		6920	893	13	7230	607	8* [a]	38* [a]	10-116/30
67-72-1	Hexachloroethane	ND		3460	1540	45	3620	1540	43	0	10-141/93
193-39-5	Indeno(1,2,3-cd)pyrene	44.0	J	3460	1910	54	3620	1920	52	1	10-160/91
78-59-1	Isophorone	ND		3460	1730	50	3620	1760	49	2	10-150/86
91-57-6	2-Methylnaphthalene	ND		3460	1650	48	3620	1680	46	2	10-145/86
88-74-4	2-Nitroaniline	ND		3460	1910	55	3620	1850	51	3	10-152/77
99-09-2	3-Nitroaniline	ND		3460	1250	36	3620	1260	35	1	10-136/83
100-01-6	4-Nitroaniline	ND		3460	1300	38	3620	1420	39	9	10-140/81
91-20-3	Naphthalene	ND		3460	1610	47	3620	1680	46	4	10-146/87
98-95-3	Nitrobenzene	ND		3460	1700	49	3620	1720	48	1	10-146/88
621-64-7	N-Nitroso-di-n-propylamine	ND		3460	1720	50	3620	1710	47	1	10-147/77
86-30-6	N-Nitrosodiphenylamine	ND		3460	1810	52	3620	1780	49	2	10-159/78
85-01-8	Phenanthrene	74.4		3460	1750	48	3620	1790	47	2	10-158/95
129-00-0	Pyrene	120		3460	1770	48	3620	1720	44	3	10-176/90
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		3460	1880	54	3620	1860	51	1	10-137/87

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55800-MS	CT7987.D	1	07/03/24	KM	07/02/24	OP55800	ECT375
OP55800-MSD	CT7988.D	1	07/03/24	KM	07/02/24	OP55800	ECT375
JD91339-1	CT7975.D	1	07/03/24	KM	07/02/24	OP55800	ECT375

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

CAS No.	Surrogate Recoveries	MS	MSD	JD91339-1	Limits
367-12-4	2-Fluorophenol	45%	44%	49%	10-99%
4165-62-2	Phenol-d5	47%	44%	51%	10-96%
118-79-6	2,4,6-Tribromophenol	61%	58%	64%	10-123%
4165-60-0	Nitrobenzene-d5	52%	51%	53%	10-109%
321-60-8	2-Fluorobiphenyl	54%	51%	59%	11-109%
1718-51-0	Terphenyl-d14	51%	48%	57%	10-120%

(a) Outside of in house control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55822-MS	3E125118.D	1	07/03/24	AO	07/02/24	OP55822	E3E5817
OP55822-MSD	3E125096.D	1	07/03/24	RS	07/02/24	OP55822	E3E5816
JD91297-41	3E125103.D	1	07/03/24	AO	07/02/24	OP55822	E3E5817

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-13, JD91339-14

CAS No.	Compound	JD91297-41 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		1960	1110	57	1980	1200	61	8	10-137/86
59-50-7	4-Chloro-3-methyl phenol	ND		1960	1190	61	1980	1310	66	10	10-146/84
120-83-2	2,4-Dichlorophenol	ND		1960	1210	62	1980	1350	68	11	10-145/86
105-67-9	2,4-Dimethylphenol	ND		1960	1140	58	1980	1270	64	11	10-148/87
51-28-5	2,4-Dinitrophenol	ND		3930	939	24	3950	711	18	28	10-118/90
534-52-1	4,6-Dinitro-o-cresol	ND		1960	1050	53	1980	836	42	23	10-131/97
95-48-7	2-Methylphenol	ND		1960	1100	56	1980	1240	63	12	10-143/86
	3&4-Methylphenol	ND		3930	2250	57	3950	2410	61	7	10-162/87
88-75-5	2-Nitrophenol	ND		1960	1350	69	1980	1490	75	10	10-147/93
100-02-7	4-Nitrophenol	ND		1960	1210	62	1980	1370	69	12	10-152/85
87-86-5	Pentachlorophenol	ND		3930	2260	58	3950	2600	66	14	10-146/89
108-95-2	Phenol	ND		1960	1140	58	1980	1260	64	10	10-118/84
58-90-2	2,3,4,6-Tetrachlorophenol	ND		1960	1150	59	1980	1370	69	17	10-139/87
95-95-4	2,4,5-Trichlorophenol	ND		1960	1230	63	1980	1360	69	10	10-140/86
88-06-2	2,4,6-Trichlorophenol	ND		1960	1220	62	1980	1370	69	12	10-141/86
83-32-9	Acenaphthene	ND		1960	1150	59	1980	1280	65	11	10-156/87
208-96-8	Acenaphthylene	ND		1960	1160	59	1980	1310	66	12	10-143/84
98-86-2	Acetophenone	ND		1960	1030	52	1980	1080	55	5	10-130/90
120-12-7	Anthracene	ND		1960	1200	61	1980	1350	68	12	10-166/88
1912-24-9	Atrazine	ND		1960	1200	61	1980	1300	66	8	10-148/86
56-55-3	Benzo(a)anthracene	ND		1960	1140	58	1980	1320	67	15	10-163/88
50-32-8	Benzo(a)pyrene	ND		1960	1220	62	1980	1370	69	12	10-163/89
205-99-2	Benzo(b)fluoranthene	ND		1960	1180	60	1980	1310	66	10	10-156/91
191-24-2	Benzo(g,h,i)perylene	ND		1960	1320	67	1980	1510	76	13	10-158/89
207-08-9	Benzo(k)fluoranthene	ND		1960	1110	57	1980	1310	66	17	10-157/86
101-55-3	4-Bromophenyl phenyl ether	ND		1960	1130	58	1980	1320	67	16	10-143/87
85-68-7	Butyl benzyl phthalate	ND		1960	1350	69	1980	1500	76	11	10-161/89
92-52-4	1,1'-Biphenyl	ND		1960	1130	58	1980	1270	64	12	10-143/86
100-52-7	Benzaldehyde	ND		1960	921	47	1980	967	49	5	10-148/88
91-58-7	2-Chloronaphthalene	ND		1960	1130	58	1980	1260	64	11	10-145/86
106-47-8	4-Chloroaniline	ND		1960	258	13	1980	309	16	18	10-109/87
86-74-8	Carbazole	ND		1960	1210	62	1980	1350	68	11	10-158/87
105-60-2	Caprolactam	ND		1960	1250	64	1980	1330	67	6	10-150/82
218-01-9	Chrysene	ND		1960	1190	61	1980	1340	68	12	10-164/87
111-91-1	bis(2-Chloroethoxy)methane	ND		1960	1090	55	1980	1190	60	9	10-152/86
111-44-4	bis(2-Chloroethyl)ether	ND		1960	1030	52	1980	1080	55	5	10-147/86

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55822-MS	3E125118.D	1	07/03/24	AO	07/02/24	OP55822	E3E5817
OP55822-MSD	3E125096.D	1	07/03/24	RS	07/02/24	OP55822	E3E5816
JD91297-41	3E125103.D	1	07/03/24	AO	07/02/24	OP55822	E3E5817

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-13, JD91339-14

CAS No.	Compound	JD91297-41 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	2,2'-Oxybis(1-chloropropane)	ND		1960	1080	55	1980	1130	57	5	10-134/88
7005-72-3	4-Chlorophenyl phenyl ether	ND		1960	1140	58	1980	1270	64	11	10-142/87
121-14-2	2,4-Dinitrotoluene	ND		1960	1280	65	1980	1440	73	12	10-147/86
606-20-2	2,6-Dinitrotoluene	ND		1960	1300	66	1980	1500	76	14	10-147/88
91-94-1	3,3'-Dichlorobenzidine	ND		1960	833	42	1980	1220	62	38	10-106/93
123-91-1	1,4-Dioxane	ND		1960	595	30	1980	568	29	5	10-102/85
53-70-3	Dibenzo(a,h)anthracene	ND		1960	1280	65	1980	1480	75	14	10-149/89
132-64-9	Dibenzofuran	ND		1960	1140	58	1980	1280	65	12	10-155/86
84-74-2	Di-n-butyl phthalate	ND		1960	1230	63	1980	1370	69	11	10-158/86
117-84-0	Di-n-octyl phthalate	ND		1960	1240	63	1980	1370	69	10	10-154/84
84-66-2	Diethyl phthalate	ND		1960	1140	58	1980	1280	65	12	10-148/84
131-11-3	Dimethyl phthalate	ND		1960	1130	58	1980	1300	66	14	10-144/85
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1960	1340	68	1980	1510	76	12	10-153/84
206-44-0	Fluoranthene	ND		1960	1360	69	1980	1520	77	11	10-165/93
86-73-7	Fluorene	ND		1960	1180	60	1980	1310	66	10	10-158/87
118-74-1	Hexachlorobenzene	ND		1960	1130	58	1980	1270	64	12	10-139/85
87-68-3	Hexachlorobutadiene	ND		1960	1090	55	1980	1200	61	10	10-139/88
77-47-4	Hexachlorocyclopentadiene	ND		3930	1550	39	3950	1420	36	9	10-116/30
67-72-1	Hexachloroethane	ND		1960	1030	52	1980	1030	52	0	10-141/93
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1960	1310	67	1980	1490	75	13	10-160/91
78-59-1	Isophorone	ND		1960	1090	55	1980	1200	61	10	10-150/86
91-57-6	2-Methylnaphthalene	ND		1960	1140	58	1980	1240	63	8	10-145/86
88-74-4	2-Nitroaniline	ND		1960	1360	69	1980	1590	80	16	10-152/77
99-09-2	3-Nitroaniline	ND		1960	983	50	1980	1100	56	11	10-136/83
100-01-6	4-Nitroaniline	ND		1960	1220	62	1980	1330	67	9	10-140/81
91-20-3	Naphthalene	ND		1960	1090	55	1980	1190	60	9	10-146/87
98-95-3	Nitrobenzene	ND		1960	1090	55	1980	1180	60	8	10-146/88
621-64-7	N-Nitroso-di-n-propylamine	ND		1960	1070	54	1980	1180	60	10	10-147/77
86-30-6	N-Nitrosodiphenylamine	ND		1960	1110	57	1980	1310	66	17	10-159/78
85-01-8	Phenanthrene	ND		1960	1200	61	1980	1330	67	10	10-158/95
129-00-0	Pyrene	ND		1960	1200	61	1980	1320	67	10	10-176/90
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		1960	1080	55	1980	1220	62	12	10-137/87

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55822-MS	3E125118.D	1	07/03/24	AO	07/02/24	OP55822	E3E5817
OP55822-MSD	3E125096.D	1	07/03/24	RS	07/02/24	OP55822	E3E5816
JD91297-41	3E125103.D	1	07/03/24	AO	07/02/24	OP55822	E3E5817

The QC reported here applies to the following samples: **Method:** SW846 8270E

JD91339-13, JD91339-14

CAS No.	Surrogate Recoveries	MS	MSD	JD91297-41	Limits
367-12-4	2-Fluorophenol	53%	58%	46%	10-99%
4165-62-2	Phenol-d5	54%	59%	49%	10-96%
118-79-6	2,4,6-Tribromophenol	62%	71%	59%	10-123%
4165-60-0	Nitrobenzene-d5	58%	65%	55%	10-109%
321-60-8	2-Fluorobiphenyl	59%	67%	54%	11-109%
1718-51-0	Terphenyl-d14	56%	63%	57%	10-120%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3E5799-DFTPP
Lab File ID: 3E124709.D
Instrument ID: GCMS3E
Injection Date: 06/10/24
Injection Time: 13:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	41041	43.6		Pass
68	Less than 2.0% of mass 69	744	0.79	(1.83) [a]	Pass
69	Mass 69 relative abundance	40580	43.1		Pass
70	Less than 2.0% of mass 69	276	0.29	(0.68) [a]	Pass
127	40.0 - 60.0% of mass 198	51659	54.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	94189	100.0		Pass
199	5.0 - 9.0% of mass 198	6260	6.65		Pass
275	10.0 - 31.0% of mass 198	23549	25.0		Pass
365	1.0 - 100.0% of mass 198	2970	3.15		Pass
441	Present, but less than mass 443	14000	14.9	(79.0) [b]	Pass
442	40.0 - 100.0% of mass 198	91525	97.2		Pass
443	17.0 - 23.0% of mass 442	17731	18.8	(19.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E5799-ICC5799	3E124710.D	06/10/24	13:32	00:20	Initial cal 50
E3E5799-IC5799	3E124712.D	06/10/24	13:58	00:46	Initial cal 1
E3E5799-IC5799	3E124713.D	06/10/24	14:24	01:12	Initial cal 2
E3E5799-IC5799	3E124714.D	06/10/24	14:51	01:39	Initial cal 5
E3E5799-IC5799	3E124715.D	06/10/24	15:17	02:05	Initial cal 10
E3E5799-IC5799	3E124716.D	06/10/24	15:43	02:31	Initial cal 25
E3E5799-IC5799	3E124717.D	06/10/24	16:09	02:57	Initial cal 80
E3E5799-IC5799	3E124718.D	06/10/24	16:35	03:23	Initial cal 100
E3E5799-IC5799	3E124719.D	06/10/24	17:01	03:49	Initial cal 1
E3E5799-IC5799	3E124720.D	06/10/24	17:27	04:15	Initial cal 2
E3E5799-IC5799	3E124721.D	06/10/24	17:53	04:41	Initial cal 5
E3E5799-IC5799	3E124722.D	06/10/24	18:20	05:08	Initial cal 10
E3E5799-IC5799	3E124723.D	06/10/24	18:46	05:34	Initial cal 25
E3E5799-IC5799	3E124724.D	06/10/24	19:12	06:00	Initial cal 50
E3E5799-IC5799	3E124725.D	06/10/24	19:38	06:26	Initial cal 80
E3E5799-IC5799	3E124726.D	06/10/24	20:05	06:53	Initial cal 100
E3E5799-ICV5799	3E124727.D	06/10/24	20:31	07:19	Initial cal verification 50
E3E5799-ICV5799	3E124729.D	06/10/24	21:23	08:11	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3E5802-DFTPP
Lab File ID: 3E124756.D
Instrument ID: GCMS3E
Injection Date: 06/17/24
Injection Time: 13:10

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	63403	46.3		Pass
68	Less than 2.0% of mass 69	978	0.71	(1.57) [a]	Pass
69	Mass 69 relative abundance	62489	45.6		Pass
70	Less than 2.0% of mass 69	436	0.32	(0.70) [a]	Pass
127	40.0 - 60.0% of mass 198	77747	56.7		Pass
197	Less than 1.0% of mass 198	405	0.30		Pass
198	Base peak, 100% relative abundance	137032	100.0		Pass
199	5.0 - 9.0% of mass 198	9946	7.26		Pass
275	10.0 - 31.0% of mass 198	32437	23.7		Pass
365	1.0 - 100.0% of mass 198	4217	3.08		Pass
441	Present, but less than mass 443	18866	13.8	(79.2) [b]	Pass
442	40.0 - 100.0% of mass 198	124800	91.1		Pass
443	17.0 - 23.0% of mass 442	23807	17.4	(19.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E5802-ICV5799	3E124757.D	06/17/24	13:30	00:20	Initial cal verification 50
E3E5802-ICV5799	3E124759.D	06/17/24	14:15	01:05	Initial cal verification 50
E3E5803-CC5799	3E124760.D	06/17/24	16:50	03:40	Continuing cal 50
OP55463-MB1	3E124762.D	06/17/24	18:49	05:39	Method Blank
OP55463-BS1	3E124763.D	06/17/24	19:14	06:04	Blank Spike
OP55463-LB19	3E124764.D	06/17/24	19:40	06:30	Leachate Blank
OP55463-LS19	3E124765.D	06/17/24	20:06	06:56	Leachate Spike
OP55463-MS	3E124765.D	06/17/24	20:06	06:56	Matrix Spike
OP55463-MSD	3E124766.D	06/17/24	20:32	07:22	Matrix Spike Duplicate
JD90217-1	3E124767.D	06/17/24	20:58	07:48	(used for QC only; not part of job JD91339)
ZZZZZZ	3E124768.D	06/17/24	21:25	08:15	(unrelated sample)
ZZZZZZ	3E124769.D	06/17/24	21:51	08:41	(unrelated sample)
ZZZZZZ	3E124770.D	06/17/24	22:17	09:07	(unrelated sample)
ZZZZZZ	3E124771.D	06/17/24	22:43	09:33	(unrelated sample)
ZZZZZZ	3E124772.D	06/17/24	23:09	09:59	(unrelated sample)
ZZZZZZ	3E124773.D	06/17/24	23:35	10:25	(unrelated sample)
ZZZZZZ	3E124774.D	06/18/24	00:01	10:51	(unrelated sample)
ZZZZZZ	3E124775.D	06/18/24	00:27	11:17	(unrelated sample)
ZZZZZZ	3E124776.D	06/18/24	00:53	11:43	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	E3E5802-DFTPP	**Injection Date:**	06/17/24
Lab File ID:	3E124756.D	**Injection Time:**	13:10
Instrument ID:	GCMS3E		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3E124778.D	06/18/24	01:45	12:35	(unrelated sample)
ZZZZZZ	3E124779.D	06/18/24	02:11	13:01	(unrelated sample)
ZZZZZZ	3E124780.D	06/18/24	02:37	13:27	(unrelated sample)
ZZZZZZ	3E124781.D	06/18/24	03:03	13:53	(unrelated sample)
ZZZZZZ	3E124782.D	06/18/24	03:29	14:19	(unrelated sample)
ZZZZZZ	3E124783.D	06/18/24	03:55	14:45	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3E5815-DFTPP
Lab File ID: 3E125057.D
Instrument ID: GCMS3E
Injection Date: 07/02/24
Injection Time: 11:40

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	54073	45.5		Pass
68	Less than 2.0% of mass 69	552	0.46	(1.04) [a]	Pass
69	Mass 69 relative abundance	53083	44.7		Pass
70	Less than 2.0% of mass 69	305	0.26	(0.57) [a]	Pass
127	40.0 - 60.0% of mass 198	65346	55.0		Pass
197	Less than 1.0% of mass 198	356	0.30		Pass
198	Base peak, 100% relative abundance	118733	100.0		Pass
199	5.0 - 9.0% of mass 198	7910	6.66		Pass
275	10.0 - 30.0% of mass 198	28981	24.4		Pass
365	1.0 - 100.0% of mass 198	4598	3.87		Pass
441	Present, but less than mass 443	17656	14.9	(80.6) [b]	Pass
442	40.0 - 100.0% of mass 198	114533	96.5		Pass
443	17.0 - 23.0% of mass 442	21896	18.4	(19.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E5815-CC5799	3E125058.D	07/02/24	12:02	00:22	Continuing cal 50
E3E5815-CC5799	3E125059.D	07/02/24	12:28	00:48	Continuing cal 50
OP55832-MB1	3E125061.D	07/02/24	13:20	01:40	Method Blank
OP55832-BS1	3E125062.D	07/02/24	13:46	02:06	Blank Spike
JD91421-10	3E125063.D	07/02/24	14:12	02:32	(used for QC only; not part of job JD91339)
ZZZZZZ	3E125064.D	07/02/24	14:38	02:58	(unrelated sample)
ZZZZZZ	3E125065.D	07/02/24	15:04	03:24	(unrelated sample)
OP55832-MS	3E125066.D	07/02/24	15:31	03:51	Matrix Spike
OP55832-MSD	3E125067.D	07/02/24	15:57	04:17	Matrix Spike Duplicate
ZZZZZZ	3E125068.D	07/02/24	16:23	04:43	(unrelated sample)
JD91349-1	3E125069.D	07/02/24	16:49	05:09	(used for QC only; not part of job JD91339)
ZZZZZZ	3E125070.D	07/02/24	17:14	05:34	(unrelated sample)
ZZZZZZ	3E125071.D	07/02/24	17:40	06:00	(unrelated sample)
ZZZZZZ	3E125072.D	07/02/24	18:06	06:26	(unrelated sample)
E3E5816-CC5799	3E125074.D	07/02/24	21:43	10:03	Continuing cal 50
E3E5816-CC5799	3E125075.D	07/02/24	22:09	10:29	Continuing cal 50
ZZZZZZ	3E125087.D	07/03/24	03:25	15:45	(unrelated sample)
OP55822-MSD	3E125096.D	07/03/24	07:20	19:40	Matrix Spike Duplicate
E3E5817-CC5799	3E125098.D	07/03/24	11:15	23:35	Continuing cal 50

Instrument Performance Check (DFTPP)

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	E3E5815-DFTPP	**Injection Date:**	07/02/24
Lab File ID:	3E125057.D	**Injection Time:**	11:40
Instrument ID:	GCMS3E		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E5817-CC5799	3E125099.D	07/03/24	11:41	24:01	Continuing cal 50
OP55822-MB1	3E125101.D	07/03/24	12:33	24:53	Method Blank

Instrument Performance Check (DFTPP)

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3E5819-DFTPP
Lab File ID: 3E125150.D
Instrument ID: GCMS3E
Injection Date: 07/05/24
Injection Time: 07:43

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	39319	47.5		Pass
68	Less than 2.0% of mass 69	753	0.91	(2.00) [a]	Pass
69	Mass 69 relative abundance	37697	45.6		Pass
70	Less than 2.0% of mass 69	320	0.39	(0.85) [a]	Pass
127	40.0 - 60.0% of mass 198	46843	56.6		Pass
197	Less than 1.0% of mass 198	283	0.34		Pass
198	Base peak, 100% relative abundance	82704	100.0		Pass
199	5.0 - 9.0% of mass 198	5638	6.82		Pass
275	10.0 - 30.0% of mass 198	19892	24.1		Pass
365	1.0 - 100.0% of mass 198	3083	3.73		Pass
441	Present, but less than mass 443	12424	15.0	(80.2) [b]	Pass
442	40.0 - 100.0% of mass 198	77624	93.9		Pass
443	17.0 - 23.0% of mass 442	15486	18.7	(20.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3E5819-CC5799	3E125151.D	07/05/24	07:57	00:14	Continuing cal 50
E3E5819-CC5799	3E125153.D	07/05/24	08:49	01:06	Continuing cal 50
OP55880B-MB1	3E125154.D	07/05/24	09:21	01:38	Method Blank
OP55880-MB1	3E125154.D	07/05/24	09:21	01:38	Method Blank
OP55880B-BS1	3E125155.D	07/05/24	09:47	02:04	Blank Spike
OP55880-BSD	3E125156.D	07/05/24	10:13	02:30	Blank Spike Duplicate
OP55880B-BSD	3E125156.D	07/05/24	10:13	02:30	Blank Spike Duplicate
ZZZZZZ	3E125157.D	07/05/24	10:39	02:56	(unrelated sample)
ZZZZZZ	3E125158.D	07/05/24	11:05	03:22	(unrelated sample)
ZZZZZZ	3E125159.D	07/05/24	11:31	03:48	(unrelated sample)
ZZZZZZ	3E125160.D	07/05/24	11:57	04:14	(unrelated sample)
ZZZZZZ	3E125161.D	07/05/24	12:22	04:39	(unrelated sample)
ZZZZZZ	3E125162.D	07/05/24	12:48	05:05	(unrelated sample)
ZZZZZZ	3E125163.D	07/05/24	13:14	05:31	(unrelated sample)
ZZZZZZ	3E125164.D	07/05/24	13:40	05:57	(unrelated sample)
ZZZZZZ	3E125165.D	07/05/24	14:06	06:23	(unrelated sample)
ZZZZZZ	3E125166.D	07/05/24	14:32	06:49	(unrelated sample)
ZZZZZZ	3E125167.D	07/05/24	14:58	07:15	(unrelated sample)
JD91339-3	3E125168.D	07/05/24	15:24	07:41	GRID-20

Instrument Performance Check (DFTPP)

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	E3E5819-DFTPP	**Injection Date:**	07/05/24
Lab File ID:	3E125150.D	**Injection Time:**	07:43
Instrument ID:	GCMS3E		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JD91287-1	3E125169.D	07/05/24	15:50	08:07	(used for QC only; not part of job JD91339)
ZZZZZZ	3E125170.D	07/05/24	16:16	08:33	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: ECT345-DFTPP
Lab File ID: CT7151.D
Instrument ID: GCMSCT
Injection Date: 06/03/24
Injection Time: 10:44

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	271171	46.6		Pass
68	Less than 2.0% of mass 69	2980	0.51	(1.06) [a]	Pass
69	Mass 69 relative abundance	280820	48.2		Pass
70	Less than 2.0% of mass 69	1643	0.28	(0.59) [a]	Pass
127	40.0 - 60.0% of mass 198	344683	59.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	582315	100.0		Pass
199	5.0 - 9.0% of mass 198	39699	6.82		Pass
275	10.0 - 31.0% of mass 198	134461	23.1		Pass
365	1.0 - 100.0% of mass 198	15991	2.75		Pass
441	Present, but less than mass 443	62101	10.7	(80.3) [b]	Pass
442	40.0 - 100.0% of mass 198	409405	70.3		Pass
443	17.0 - 23.0% of mass 442	77307	13.3	(18.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ECT345-ICC345	CT7153.D	06/03/24	12:43	01:59	Initial cal 50
ECT345-IC345	CT7154.D	06/03/24	13:02	02:18	Initial cal 1
ECT345-IC345	CT7155.D	06/03/24	13:21	02:37	Initial cal 2
ECT345-IC345	CT7156.D	06/03/24	13:40	02:56	Initial cal 5
ECT345-IC345	CT7157.D	06/03/24	13:59	03:15	Initial cal 10
ECT345-IC345	CT7158.D	06/03/24	14:20	03:36	Initial cal 25
ECT345-IC345	CT7159.D	06/03/24	14:39	03:55	Initial cal 80
ECT345-IC345	CT7160.D	06/03/24	14:58	04:14	Initial cal 100
ECT345-IC345	CT7161.D	06/03/24	15:16	04:32	Initial cal 50
ECT345-IC345	CT7162.D	06/03/24	15:35	04:51	Initial cal 1
ECT345-IC345	CT7163.D	06/03/24	15:54	05:10	Initial cal 2
ECT345-IC345	CT7164.D	06/03/24	16:13	05:29	Initial cal 5
ECT345-IC345	CT7165.D	06/03/24	16:32	05:48	Initial cal 10
ECT345-IC345	CT7166.D	06/03/24	16:51	06:07	Initial cal 25
ECT345-IC345	CT7167.D	06/03/24	17:10	06:26	Initial cal 80
ECT345-IC345	CT7168.D	06/03/24	17:29	06:45	Initial cal 100
ECT345-ICV345	CT7169.D	06/03/24	17:48	07:04	Initial cal verification 50
ECT345-ICV345	CT7172.D	06/03/24	18:45	08:01	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: ECT346-DFTPP
Lab File ID: CT7173.D
Instrument ID: GCMSCT
Injection Date: 06/05/24
Injection Time: 14:19

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	170412	49.7		Pass
68	Less than 2.0% of mass 69	3042	0.89	(1.79) [a]	Pass
69	Mass 69 relative abundance	169526	49.5		Pass
70	Less than 2.0% of mass 69	711	0.21	(0.42) [a]	Pass
127	40.0 - 60.0% of mass 198	204781	59.8		Pass
197	Less than 1.0% of mass 198	793	0.23		Pass
198	Base peak, 100% relative abundance	342549	100.0		Pass
199	5.0 - 9.0% of mass 198	23783	6.94		Pass
275	10.0 - 31.0% of mass 198	78555	22.9		Pass
365	1.0 - 100.0% of mass 198	9806	2.86		Pass
441	Present, but less than mass 443	35343	10.3	(77.1) [b]	Pass
442	40.0 - 100.0% of mass 198	227595	66.4		Pass
443	17.0 - 23.0% of mass 442	45815	13.4	(20.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ECT346-ICV345	CT7174.D	06/05/24	14:49	00:30	Initial cal verification 50
ECT346-ICV345	CT7175.D	06/05/24	15:08	00:49	Initial cal verification 50
ECT347-CC345	CT7178.D	06/06/24	13:04	22:45	Continuing cal 50
ECT347-CC345	CT7179.D	06/06/24	13:28	23:09	Continuing cal 50
OP53776-MB1	CT7180.D	06/06/24	13:47	23:28	Method Blank
ZZZZZZ	CT7181.D	06/06/24	14:06	23:47	(unrelated sample)
OP54985-MB1	CT7182.D	06/06/24	14:25	24:06	Method Blank
ZZZZZZ	CT7183.D	06/06/24	14:44	24:25	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EP7505-DFTPP
Lab File ID: P160511.D
Instrument ID: GCMSP
Injection Date: 06/14/24
Injection Time: 11:08

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	53606	37.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	52153	36.9		Pass
70	Less than 2.0% of mass 69	260	0.18	(0.50) [a]	Pass
127	40.0 - 60.0% of mass 198	62544	44.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	141496	100.0		Pass
199	5.0 - 9.0% of mass 198	9450	6.68		Pass
275	10.0 - 30.0% of mass 198	31326	22.1		Pass
365	1.0 - 100.0% of mass 198	3725	2.63		Pass
441	Present, but less than mass 443	14135	9.99	(85.7) [b]	Pass
442	40.0 - 100.0% of mass 198	84509	59.7		Pass
443	17.0 - 23.0% of mass 442	16486	11.7	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP7505-ICC7505	P160512.D	06/14/24	11:22	00:14	Initial cal 50
EP7505-IC7505	P160513.D	06/14/24	11:57	00:49	Initial cal 1
EP7505-IC7505	P160514.D	06/14/24	12:25	01:17	Initial cal 2
EP7505-IC7505	P160515.D	06/14/24	12:52	01:44	Initial cal 5
EP7505-IC7505	P160516.D	06/14/24	13:26	02:18	Initial cal 10
EP7505-IC7505	P160517.D	06/14/24	13:54	02:46	Initial cal 25
EP7505-IC7505	P160518.D	06/14/24	14:20	03:12	Initial cal 80
EP7505-IC7505	P160519.D	06/14/24	14:49	03:41	Initial cal 100
EP7505-IC7505	P160520.D	06/14/24	15:19	04:11	Initial cal 50
EP7505-IC7505	P160521.D	06/14/24	15:45	04:37	Initial cal 1
EP7505-IC7505	P160522.D	06/14/24	16:11	05:03	Initial cal 2
EP7505-IC7505	P160523.D	06/14/24	16:36	05:28	Initial cal 5
EP7505-IC7505	P160524.D	06/14/24	17:06	05:58	Initial cal 10
EP7505-IC7505	P160525.D	06/14/24	17:34	06:26	Initial cal 25
EP7505-IC7505	P160526.D	06/14/24	17:59	06:51	Initial cal 80
EP7505-IC7505	P160527.D	06/14/24	18:24	07:16	Initial cal 100
EP7505-ICV7505	P160528.D	06/14/24	18:49	07:41	Initial cal verification 50
EP7505-ICV7505	P160529.D	06/14/24	19:14	08:06	Initial cal verification 50
EP7505-ICV7505	P160530.D	06/14/24	19:39	08:31	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EP7506-DFTPP
Lab File ID: P160534.D
Instrument ID: GCMSP
Injection Date: 06/20/24
Injection Time: 15:27

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36265	34.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	35216	33.6		Pass
70	Less than 2.0% of mass 69	186	0.18	(0.53) [a]	Pass
127	40.0 - 60.0% of mass 198	44229	42.2		Pass
197	Less than 1.0% of mass 198	192	0.18		Pass
198	Base peak, 100% relative abundance	104837	100.0		Pass
199	5.0 - 9.0% of mass 198	7150	6.82		Pass
275	10.0 - 30.0% of mass 198	25168	24.0		Pass
365	1.0 - 100.0% of mass 198	2773	2.65		Pass
441	Present, but less than mass 443	13012	12.4	(83.1) [b]	Pass
442	40.0 - 100.0% of mass 198	78227	74.6		Pass
443	17.0 - 23.0% of mass 442	15664	14.9	(20.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP7506-ICC7506	P160535.D	06/20/24	15:42	00:15	Initial cal 50
EP7506-IC7506	P160536.D	06/20/24	16:11	00:44	Initial cal 1
EP7506-IC7506	P160537.D	06/20/24	16:42	01:15	Initial cal 2
EP7506-IC7506	P160538.D	06/20/24	17:11	01:44	Initial cal 5
EP7506-IC7506	P160539.D	06/20/24	17:37	02:10	Initial cal 10
EP7506-IC7506	P160540.D	06/20/24	18:02	02:35	Initial cal 25
EP7506-IC7506	P160541.D	06/20/24	18:28	03:01	Initial cal 80
EP7506-IC7506	P160542.D	06/20/24	18:55	03:28	Initial cal 100

Instrument Performance Check (DFTPP)

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	EP7507-DFTPP	**Injection Date:**	06/24/24
Lab File ID:	P160545.D	**Injection Time:**	19:53
Instrument ID:	GCMSP		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	35399	33.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	35608	33.9		Pass
70	Less than 2.0% of mass 69	246	0.23	(0.69) [a]	Pass
127	40.0 - 60.0% of mass 198	45832	43.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	105125	100.0		Pass
199	5.0 - 9.0% of mass 198	6603	6.28		Pass
275	10.0 - 30.0% of mass 198	25405	24.2		Pass
365	1.0 - 100.0% of mass 198	2601	2.47		Pass
441	Present, but less than mass 443	11150	10.6	(79.3) [b]	Pass
442	40.0 - 100.0% of mass 198	74342	70.7		Pass
443	17.0 - 23.0% of mass 442	14053	13.4	(18.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP7507-ICV7506	P160548.D	06/24/24	20:55	01:02	Initial cal verification 50
EP7507-ICV7506	P160549.D	06/24/24	21:20	01:27	Initial cal verification 50
EP7507-ICV7506	P160550.D	06/24/24	21:46	01:53	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EP7508-DFTPP
Lab File ID: P160551.D
Instrument ID: GCMSP
Injection Date: 06/26/24
Injection Time: 14:55

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36577	33.5		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	36926	33.8		Pass
70	Less than 2.0% of mass 69	310	0.28	(0.84) [a]	Pass
127	40.0 - 60.0% of mass 198	46096	42.2		Pass
197	Less than 1.0% of mass 198	462	0.42		Pass
198	Base peak, 100% relative abundance	109189	100.0		Pass
199	5.0 - 9.0% of mass 198	7485	6.86		Pass
275	10.0 - 30.0% of mass 198	25497	23.4		Pass
365	1.0 - 100.0% of mass 198	2987	2.74		Pass
441	Present, but less than mass 443	12056	11.0	(80.1) [b]	Pass
442	40.0 - 100.0% of mass 198	75648	69.3		Pass
443	17.0 - 23.0% of mass 442	15060	13.8	(19.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP7508-ICV7505	P160552A.D	06/26/24	15:30	00:35	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EP7514-DFTPP
Lab File ID: P160652.D
Instrument ID: GCMSP
Injection Date: 07/02/24
Injection Time: 11:14

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	31971	32.8		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	34251	35.2		Pass
70	Less than 2.0% of mass 69	183	0.19	(0.53) [a]	Pass
127	40.0 - 60.0% of mass 198	43203	44.3		Pass
197	Less than 1.0% of mass 198	161	0.17		Pass
198	Base peak, 100% relative abundance	97437	100.0		Pass
199	5.0 - 9.0% of mass 198	6931	7.11		Pass
275	10.0 - 30.0% of mass 198	21932	22.5		Pass
365	1.0 - 100.0% of mass 198	2306	2.37		Pass
441	Present, but less than mass 443	10729	11.0	(80.8) [b]	Pass
442	40.0 - 100.0% of mass 198	66722	68.5		Pass
443	17.0 - 23.0% of mass 442	13271	13.6	(19.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP7514-CC7505	P160653.D	07/02/24	11:25	00:11	Continuing cal 50
EP7514-CC7505	P160654.D	07/02/24	11:58	00:44	Continuing cal 50
EP7514-CC7506	P160655.D	07/02/24	12:24	01:10	Continuing cal 50
OP55776B-MB1	P160657.D	07/02/24	13:16	02:02	Method Blank
OP55776-MB1	P160657A.D	07/02/24	13:16	02:02	Method Blank
OP55776-BS1	P160658A.D	07/02/24	13:41	02:27	Blank Spike
OP55776B-BS1	P160658.D	07/02/24	13:41	02:27	Blank Spike
OP55776B-BSD	P160659.D	07/02/24	14:07	02:53	Blank Spike Duplicate
OP55776-BSD	P160659A.D	07/02/24	14:07	02:53	Blank Spike Duplicate
OP55776B-BS13	P160660.D	07/02/24	14:33	03:19	Blank Spike
ZZZZZZ	P160661.D	07/02/24	14:59	03:45	(unrelated sample)
ZZZZZZ	P160662.D	07/02/24	15:25	04:11	(unrelated sample)
ZZZZZZ	P160663.D	07/02/24	15:56	04:42	(unrelated sample)
ZZZZZZ	P160664.D	07/02/24	16:26	05:12	(unrelated sample)
JD91339-12	P160665.D	07/02/24	16:54	05:40	FB-3
ZZZZZZ	P160666.D	07/02/24	17:23	06:09	(unrelated sample)
ZZZZZZ	P160668.D	07/02/24	18:19	07:05	(unrelated sample)
ZZZZZZ	P160669.D	07/02/24	18:45	07:31	(unrelated sample)
ZZZZZZ	P160670.D	07/02/24	19:11	07:57	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	EP7514-DFTPP	**Injection Date:**	07/02/24
Lab File ID:	P160652.D	**Injection Time:**	11:14
Instrument ID:	GCMSP		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	P160671.D	07/02/24	19:38	08:24	(unrelated sample)
ZZZZZZ	P160672.D	07/02/24	20:05	08:51	(unrelated sample)
ZZZZZZ	P160673.D	07/02/24	20:31	09:17	(unrelated sample)
ZZZZZZ	P160674.D	07/02/24	20:56	09:42	(unrelated sample)

Internal Standard Area Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	E3E5816-CC5799	**Injection Date:**	07/02/24
Lab File ID:	3E125074.D	**Injection Time:**	21:43
Instrument ID:	GCMS3E	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	143267	4.86	587112	5.95	321081	8.06	593729	10.26	464369	14.47	491536	16.60
Check Std [b]	146406	4.81	673554	5.90	424070	8.00	827476	10.20	691169	14.41	780424	16.54
Upper Limit [c]	292812	4.98	1347108	6.07	848140	8.17	1654952	10.37	1382338	14.58	1560848	16.71
Lower Limit [d]	73203	4.64	336777	5.73	212035	7.83	413738	10.03	345585	14.24	390212	16.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	83664	4.81	372727	5.90	235172	8.01	433883	10.21	377325	14.43	423210	16.56
OP55822-MSD	99213	4.81	400433	5.90	214500	8.00	416774	10.20	371656	14.41	436255	16.54

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: E3E5799-ICC5799 3E124710.D 06/10/24 13:32
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Internal Standard Area Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	E3E5817-CC5799	**Injection Date:**	07/03/24
Lab File ID:	3E125098.D	**Injection Time:**	11:15
Instrument ID:	GCMS3E	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	143267	4.86	587112	5.95	321081	8.06	593729	10.26	464369	14.47	491536	16.60
Check Std [b]	97821	4.80	445598	5.90	276767	8.00	530912	10.19	427808	14.40	482894	16.53
Upper Limit [c]	195642	4.97	891196	6.07	553534	8.17	1061824	10.36	855616	14.57	965788	16.70
Lower Limit [d]	48911	4.63	222799	5.73	138384	7.83	265456	10.02	213904	14.23	241447	16.36

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP55822-MB1	70708	4.80	286223	5.89	172758	7.99	331610	10.19	315532	14.39	354213	16.52
OP55822-BS1	80255	4.80	340638	5.89	202843	7.99	365610	10.19	333032	14.40	382504	16.53
JD91297-41	77818	4.80	323751	5.89	198690	7.99	392623	10.19	328642	14.39	361995	16.52
ZZZZZZ	76032	4.80	318029	5.89	193866	7.99	378254	10.19	319363	14.39	351752	16.52
JD91339-13	77440	4.80	330934	5.89	189468	7.99	359567	10.19	321439	14.39	353959	16.53
JD91339-14	75292	4.80	325324	5.89	194385	7.99	396258	10.19	320643	14.39	357831	16.53
ZZZZZZ	72871	4.80	314773	5.89	180249	7.99	337359	10.19	316566	14.39	349339	16.52
ZZZZZZ	76983	4.80	329806	5.89	192386	7.99	348140	10.19	321596	14.39	353723	16.52
ZZZZZZ	74500	4.80	321380	5.89	192837	7.99	374855	10.19	330934	14.39	362787	16.52
ZZZZZZ	75165	4.80	329145	5.89	190779	7.99	357157	10.19	334997	14.39	369472	16.52
ZZZZZZ	76100	4.80	321768	5.89	187896	7.99	346666	10.19	328287	14.39	359567	16.52
ZZZZZZ	82034	4.80	356805	5.89	200146	7.99	394492	10.19	347880	14.40	400194	16.53
ZZZZZZ	82014	4.80	349524	5.89	207064	7.99	405880	10.19	330945	14.39	380596	16.53
ZZZZZZ	82603	4.80	356047	5.89	213097	7.99	419979	10.19	338181	14.40	377479	16.53
ZZZZZZ	81496	4.80	357840	5.89	220486	7.99	429963	10.19	343476	14.40	379489	16.53
ZZZZZZ	87858	4.80	371114	5.89	201926	7.99	394831	10.19	371996	14.41	438215	16.54
ZZZZZZ	90246	4.80	368662	5.89	204972	7.99	393845	10.19	354579	14.40	410783	16.53
OP55822-MS	88018	4.81	368676	5.90	204690	7.99	397835	10.19	351752	14.40	404134	16.53

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: E3E5799-ICC5799 3E124710.D 06/10/24 13:32
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Internal Standard Area Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	E3E5819-CC5799	**Injection Date:**	07/05/24
Lab File ID:	3E125151.D	**Injection Time:**	07:57
Instrument ID:	GCMS3E	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	143267	4.86	587112	5.95	321081	8.06	593729	10.26	464369	14.47	491536	16.60
Check Std [b]	111134	4.80	453595	5.89	250464	7.99	460764	10.19	364184	14.41	421718	16.54
Upper Limit [c]	222268	4.97	907190	6.06	500928	8.16	921528	10.36	728368	14.58	843436	16.71
Lower Limit [d]	55567	4.63	226798	5.72	125232	7.82	230382	10.02	182092	14.24	210859	16.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP55880B-MB1	101190	4.80	404964	5.89	227439	7.99	410017	10.19	329551	14.40	386294	16.53
OP55880-MB1	101190	4.80	404964	5.89	227439	7.99	410017	10.19	329551	14.40	386294	16.53
OP55880B-BS1	100145	4.80	401722	5.89	225632	7.99	412609	10.19	333262	14.40	385750	16.53
OP55880B-BSD	108717	4.80	443661	5.89	251295	7.99	463740	10.19	377321	14.40	425265	16.53
OP55880-BSD	108717	4.80	443661	5.89	251295	7.99	463740	10.19	377321	14.40	425265	16.53
ZZZZZZ	100356	4.80	401437	5.89	227635	7.99	409115	10.18	324617	14.39	377409	16.53
ZZZZZZ	97618	4.80	399491	5.89	224015	7.99	410142	10.18	321006	14.39	373575	16.53
ZZZZZZ	107040	4.80	422563	5.89	240229	7.99	436018	10.18	342875	14.39	397680	16.53
ZZZZZZ	101428	4.80	410430	5.89	229254	7.99	421933	10.18	330965	14.39	381383	16.53
ZZZZZZ	94187	4.80	377750	5.89	212089	7.99	389521	10.18	302446	14.39	346811	16.52
ZZZZZZ	98922	4.80	395856	5.89	218932	7.99	401516	10.18	316217	14.39	363958	16.52
ZZZZZZ	105683	4.80	426299	5.89	239310	7.99	443579	10.18	346713	14.39	395632	16.52
ZZZZZZ	93471	4.80	369026	5.89	206644	7.98	375266	10.18	293401	14.39	333193	16.52
ZZZZZZ	97397	4.80	388789	5.89	217417	7.98	397901	10.18	311056	14.39	355786	16.52
ZZZZZZ	90640	4.80	365950	5.89	210451	7.98	376090	10.18	295032	14.39	335472	16.52
ZZZZZZ	96585	4.80	397829	5.89	215275	7.98	399696	10.18	311804	14.39	355236	16.52
JD91339-3	90669	4.80	352828	5.89	200382	7.98	371330	10.18	285489	14.39	327518	16.52
JD91287-1	97215	4.80	389676	5.89	219653	7.98	394683	10.18	330062	14.39	403148	16.53
ZZZZZZ	96867	4.80	393801	5.89	217868	7.98	402562	10.18	322862	14.39	379819	16.52

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: E3E5799-ICC5799 3E124710.D 06/10/24 13:32
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Internal Standard Area Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	ECT375-CC345	**Injection Date:**	07/03/24
Lab File ID:	CT7965.D	**Injection Time:**	10:12
Instrument ID:	GCMSCT	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	531691	3.71	2141060	4.39	1211867	5.58	2091724	6.93	1566003	9.95	1651356	11.60
Check Std [b]	304165	3.60	1199349	4.29	702640	5.46	1234639	6.79	964520	9.80	1084351	11.44
Upper Limit [c]	608330	3.77	2398698	4.46	1405280	5.63	2469278	6.96	1929040	9.97	2168702	11.61
Lower Limit [d]	152083	3.43	599675	4.12	351320	5.29	617320	6.62	482260	9.63	542176	11.27

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP55800-MB1	358912	3.60	1417676	4.29	771159	5.45	1289972	6.79	898336	9.80	948035	11.44
OP55800-BS1	355490	3.60	1339189	4.29	731637	5.46	1235085	6.79	909305	9.80	1004134	11.44
OP55844-MB1	297143	3.60	1188736	4.29	666386	5.45	1166463	6.79	925808	9.80	1061209	11.44
OP55844-LB2	333909	3.60	1308365	4.29	729443	5.45	1264807	6.79	971788	9.80	1078118	11.44
OP55844-BS1	334111	3.60	1287757	4.29	696945	5.46	1176353	6.79	839982	9.80	940112	11.44
JD91339-1	321289	3.60	1256446	4.29	686405	5.45	1190776	6.79	928715	9.80	1041740	11.44
JD91339-7	402807	3.60	1516586	4.29	799046	5.45	1320553	6.79	931049	9.80	986868	11.44
JD91339-8	387234	3.60	1488672	4.29	795107	5.45	1323412	6.79	916976	9.80	970289	11.44
JD91339-9	387178	3.60	1470401	4.29	782490	5.45	1270599	6.79	908539	9.80	970979	11.44
JD91339-10	367957	3.60	1426814	4.29	744753	5.45	1231704	6.79	851103	9.80	917748	11.44
JD91339-11	344363	3.60	1368854	4.29	759920	5.45	1305097	6.79	1016267	9.80	1181670	11.44
JD91339-2	439194	3.60	1623907	4.29	868451	5.45	1445943	6.79	1037634	9.80	1223550	11.44
JD91339-3	423002	3.60	1562611	4.29	832637	5.45	1404644	6.79	996515	9.81	1304256	11.45
JD91339-4	399079	3.60	1480455	4.29	790158	5.45	1294555	6.79	949184	9.80	1181134	11.45
JD91339-5	368622	3.60	1395323	4.29	733002	5.45	1209852	6.79	859976	9.80	1084291	11.44
JD91339-6	370348	3.60	1378436	4.29	746410	5.45	1256734	6.79	968503	9.80	1172970	11.45
OP55800-MS	378824	3.60	1424238	4.29	741976	5.46	1249860	6.80	934797	9.81	1172461	11.45
OP55800-MSD	350000	3.60	1280843	4.29	671092	5.46	1128246	6.79	859421	9.80	1092496	11.45
OP55844-MS	341370	3.60	1294514	4.29	694084	5.46	1164640	6.80	933593	9.81	1134057	11.45
OP55844-LS2	341370	3.60	1294514	4.29	694084	5.46	1164640	6.80	933593	9.81	1134057	11.45
OP55844-MSD	312888	3.60	1200100	4.29	664809	5.46	1149506	6.80	914039	9.81	1085108	11.45
JD91371-1	311403	3.60	1254156	4.29	704275	5.46	1288682	6.79	1018102	9.80	1166396	11.45
ZZZZZZ	313381	3.60	1255601	4.29	711025	5.46	1262025	6.79	1019163	9.80	1134168	11.45
ZZZZZZ	325697	3.60	1288431	4.29	713005	5.46	1274341	6.79	994970	9.80	1147616	11.45
ZZZZZZ	295204	3.60	1193686	4.29	680961	5.46	1210512	6.79	965191	9.80	1082827	11.45
ZZZZZZ	309085	3.60	1242786	4.29	696939	5.46	1251418	6.79	1002126	9.80	1139775	11.44
ZZZZZZ	319118	3.60	1258897	4.29	703679	5.46	1228895	6.79	986477	9.80	1111114	11.44
ZZZZZZ	326436	3.60	1268626	4.29	707507	5.45	1233298	6.79	1015407	9.80	1174850	11.44
ZZZZZZ	327281	3.60	1302225	4.29	720595	5.46	1258274	6.79	1006072	9.80	1152115	11.44
ZZZZZZ	318580	3.60	1244200	4.29	682503	5.46	1216366	6.79	995969	9.80	1141717	11.44
ZZZZZZ	360422	3.60	1391634	4.29	785808	5.45	1400217	6.79	1110981	9.80	1250888	11.44
ZZZZZZ	327829	3.60	1282642	4.29	703442	5.45	1233436	6.79	995553	9.80	1114587	11.44
ZZZZZZ	325724	3.60	1290427	4.29	734560	5.45	1320844	6.79	1071628	9.80	1210894	11.44

Internal Standard Area Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	ECT375-CC345	**Injection Date:**	07/03/24
Lab File ID:	CT7965.D	**Injection Time:**	10:12
Instrument ID:	GCMSCT	**Method:**	SW846 8270E

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	346527	3.60	1357299	4.29	730666	5.45	1263128	6.79	973480	9.80	1154950	11.44

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: ECT345-ICC345 CT7153.D 06/03/24 12:43
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Internal Standard Area Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	EP7514-CC7505	**Injection Date:**	07/02/24
Lab File ID:	P160653.D	**Injection Time:**	11:25
Instrument ID:	GCMSP	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	175604	4.64	643447	5.54	348627	6.96	611145	8.84	533593	14.11	597993	17.16
Check Std [b]	137122	4.62	551310	5.53	347903	6.94	673056	8.81	677199	14.08	771056	17.12
Upper Limit [c]	274244	4.79	1102620	5.70	695806	7.11	1346112	8.98	1354398	14.25	1542112	17.29
Lower Limit [d]	68561	4.45	275655	5.36	173952	6.77	336528	8.64	338600	13.91	385528	16.95

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP55776-MB1	135031	4.62	541321	5.53	310751	6.93	584679	8.80	527243	14.06	597172	17.11
OP55776B-MB1	135031	4.62	541321	5.53	310751	6.93	584679	8.80	527243	14.06	597172	17.11
OP55776-BS1	116946	4.62	459482	5.53	267259	6.94	505930	8.81	474392	14.07	520365	17.11
OP55776B-BS1	116946	4.62	459482	5.53	267259	6.94	505930	8.81	474392	14.07	520365	17.11
OP55776-BSD	146716	4.62	581089	5.53	340982	6.94	629547	8.81	560241	14.07	603377	17.11
OP55776B-BSD	146716	4.62	581089	5.53	340982	6.94	629547	8.81	560241	14.07	603377	17.11
OP55776B-BS13	122131	4.62	483806	5.53	284134	6.93	518080	8.81	497051	14.06	542703	17.11
ZZZZZZ	121296	4.62	477249	5.53	275598	6.94	526854	8.81	523989	14.07	623629	17.11
ZZZZZZ	128113	4.62	516411	5.53	306613	6.93	594471	8.81	566675	14.06	654360	17.11
ZZZZZZ	124064	4.62	390872	5.53	308701	6.94	615786	8.84	645665	14.08	680241	17.12
ZZZZZZ	121316	4.62	487164	5.53	285175	6.94	549358	8.81	506678	14.07	579903	17.11
JD91339-12	137364	4.62	550692	5.53	317478	6.94	596885	8.81	540507	14.07	608261	17.11
ZZZZZZ	119718	4.62	483673	5.53	284837	6.94	546699	8.81	540864	14.07	623464	17.11
ZZZZZZ	116644	4.62	463494	5.53	281619	6.93	551179	8.80	528359	14.06	604662	17.11
ZZZZZZ	127664	4.62	503467	5.53	301666	6.94	577757	8.81	562930	14.06	650033	17.11
ZZZZZZ	114462	4.62	456404	5.53	270028	6.93	507407	8.80	510546	14.06	587172	17.11
ZZZZZZ	154075	4.62	603350	5.53	361109	6.94	706257	8.81	684751	14.06	810834	17.11
ZZZZZZ	130269	4.62	512858	5.53	307897	6.93	584077	8.81	560083	14.06	649876	17.11
ZZZZZZ	121116	4.62	477069	5.53	286924	6.93	564525	8.80	541938	14.06	626696	17.11
ZZZZZZ	118737	4.62	476919	5.53	289163	6.93	549047	8.80	555790	14.06	633915	17.11

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: EP7505-ICC7505 P160512.D 06/14/24 11:22
(b) Check Std Limit = -50 to + 100% of initial cal area.
(c) Upper Limit = + 100% of check standard area; Retention time + 0.167 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.167 minutes.

Surrogate Recovery Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8270E **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD91339-12	P160665.D	31	27	57	65	60	38
OP55776-BS1	P160658A.D	37	28	64	87	81	41
OP55776-BSD	P160659A.D	40	29	78	76	74	49
OP55776-MB1	P160657A.D	49	39	69	73	69	39

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-71%
S2 = Phenol-d5	10-58%
S3 = 2,4,6-Tribromophenol	22-144%
S4 = Nitrobenzene-d5	28-118%
S5 = 2-Fluorobiphenyl	34-116%
S6 = Terphenyl-d14	10-127%

Surrogate Recovery Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8270E **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD91339-1	CT7975.D	49	51	64	53	59	57
JD91339-2	CT7982.D	39	40	54	44	49	50
JD91339-3	3E125168.D	39	45	52	50	52	53
JD91339-3	CT7983.D	35	37	49	38	44	45
JD91339-4	CT7984.D	51	54	72	57	63	67
JD91339-5	CT7985.D	43	44	55	45	51	51
JD91339-6	CT7986.D	40	42	55	43	48	46
JD91339-7	CT7976.D	48	49	65	51	58	59
JD91339-8	CT7977.D	38	39	49	40	45	47
JD91339-9	CT7978.D	40	42	54	43	48	52
JD91339-10	CT7980.D	28	29	35	30	33	33
JD91339-11	CT7981.D	60	63	79	62	69	70
JD91339-13	3E125105.D	39	42	42	45	42	42
JD91339-14	3E125106.D	28	31	36	32	34	36
OP55800-BS1	CT7971.D	63	64	89	72	72	81
OP55800-MB1	CT7970.D	75	79	89	76	82	93
OP55800-MS	CT7987.D	45	47	61	52	54	51
OP55800-MSD	CT7988.D	44	44	58	51	51	48
OP55822-BS1	3E125102.D	69	74	85	76	75	68
OP55822-MB1	3E125101.D	53	59	70	61	64	69
OP55822-MS	3E125118.D	53	54	62	58	59	56
OP55822-MSD	3E125096.D	58	59	71	65	67	63

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-99%
S2 = Phenol-d5	10-96%
S3 = 2,4,6-Tribromophenol	10-123%
S4 = Nitrobenzene-d5	10-109%
S5 = 2-Fluorobiphenyl	11-109%
S6 = Terphenyl-d14	10-120%

Initial Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3E5799-ICC5799
Lab FileID: 3E124710.D

Response Factor Report GCMS3E

Method : C:\msdchem\1\methods\M3E5799.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
Last Update : Thu Jun 13 16:28:39 2024
Response via : Initial Calibration

Calibration Files
2 =3E124720a.D 5 =3E124721a.D 25 =3E124723a.D 80 =3E124725a.D
100 =3E124726a.D 50 =3E124724a.D 1 =3E124719a.D 10 =3E124722a.D

Compound	2	5	25	80	100	50	1	10	Avg %RSD
1) I 1,4-Dichlorobenzene-d	ISTD								
2) 1,4-Dioxane	0.487	0.570	0.567	0.587	0.589	0.605	0.604	0.502	0.564	8.00
3) Pyridine	1.200	1.393	1.536	1.565	1.613	1.621	1.280	1.394	1.450	10.88
4) N-Nitrosodim	0.661	0.684	0.776	0.799	0.840	0.850	0.629	0.675	0.739	11.76
5) 2-Fluorophen	1.094	1.267	1.310	1.340	1.427	1.358	1.222	1.171	1.274	8.50
6) Indene	2.147	2.438	2.469	2.595	2.691	2.621	2.050	2.246	2.407	9.78
7) Cumene	2.574	2.819	2.927	3.075	3.189	3.154	2.868	2.760	2.921	7.20
8) Phenol-d5	1.469	1.517	1.637	1.686	1.778	1.742	1.509	1.488	1.603	7.65
9) Phenol	1.572	1.642	1.799	1.820	1.917	1.855	1.592	1.612	1.726	7.88
10) Aniline	1.921	2.067	2.215	2.102	2.167	2.176	2.049	2.006	2.088	4.69
11) bis(2-Chloro	1.136	1.258	1.370	1.379	1.450	1.399	1.159	1.221	1.296	9.14
12) 2-Chlorophen	1.204	1.321	1.392	1.436	1.542	1.509	1.199	1.297	1.362	9.53
13) Decane	1.564	1.561	1.635	1.659	1.709	1.712	1.601	1.512	1.619	4.47
14) 1,3-Dichloro	1.382	1.480	1.568	1.581	1.665	1.643	1.410	1.403	1.517	7.42
15) 1,4-Dichloro	1.374	1.505	1.577	1.639	1.721	1.681	1.402	1.469	1.546	8.35
16) Benzyl alcoh	0.890	0.899	0.944	1.025	1.082	1.022	0.829	0.872	0.945	9.38
17) 1,2-Dichloro	1.299	1.444	1.488	1.565	1.637	1.605	1.245	1.366	1.456	9.89
18) Acetophenone	1.949	2.121	2.203	2.289	2.378	2.245	2.069	2.013	2.158	6.76
19) 2-Methylphen	1.059	1.255	1.325	1.390	1.424	1.373	1.108	1.204	1.267	10.63
20) 2,2'-oxybis(	0.412	0.390	0.421	0.436	0.460	0.447	0.346	0.399	0.414	8.70
21) 3&4-Methylph	1.163	1.280	1.392	1.437	1.504	1.497	1.144	1.260	1.335	10.73
22) n-Nitroso-di	0.908	0.997	1.028	1.059	1.100	1.046	0.935	0.933	1.001	6.91
23) Hexachloroet	0.390	0.451	0.484	0.510	0.553	0.530	0.445	0.440	0.475	11.36
24) I Naphthalene-d8	ISTD								
25) Nitrobenzene	0.285	0.318	0.339	0.353	0.376	0.376	0.311	0.303	0.333	10.21
26) Nitrobenzene	0.336	0.331	0.351	0.367	0.384	0.390	0.309	0.319	0.348	8.54
27) Quinoline	0.596	0.648	0.696	0.724	0.751	0.753	0.561	0.645	0.672	10.59
28) Isophorone	0.595	0.616	0.662	0.685	0.700	0.716	0.574	0.631	0.648	7.96
29) 2-Nitropheno	0.111	0.114	0.149	0.168	0.180	0.170		0.125	0.145	19.70
30) 2,4-Dimethyl	0.312	0.351	0.354	0.370	0.384	0.383	0.315	0.329	0.350	8.22
31) Benzoic acid		0.147	0.211	0.260	0.287	0.251		0.163	0.220	25.50
---- Quadratic regression ---- Coefficient = 0.9990										
Response Ratio = -0.00999 + 0.21018 *A + 0.03129 *A^2										
32) bis(2-Chloro	0.374	0.378	0.414	0.416	0.429	0.437	0.363	0.373	0.398	7.24
33) 2,4-Dichloro	0.223	0.246	0.266	0.274	0.290	0.296	0.221	0.235	0.256	11.44
34) 2,6-Dichloro	0.241	0.244	0.268	0.273	0.289	0.298	0.209	0.244	0.258	11.29
35) 1,3,5-Trichl	0.278	0.291	0.290	0.302	0.315	0.338	0.265	0.274	0.294	8.09
36) 1,2,4-Trichl	0.247	0.272	0.273	0.291	0.308	0.312	0.234	0.258	0.274	10.16
37) 1,2,3-Trichl	0.264	0.264	0.279	0.290	0.310	0.308	0.232	0.256	0.275	9.69
38) Naphthalene	0.931	0.995	1.046	1.067	1.125	1.151	0.950	0.961	1.028	8.00
39) 4-Chloroanil	0.356	0.392	0.418	0.431	0.438	0.447	0.362	0.388	0.404	8.55
40) 2,3-Dichloro	0.275	0.290	0.316	0.331	0.346	0.345	0.275	0.292	0.309	9.59
41) Hydroquinone	0.177	0.234	0.297	0.229	0.234	0.254	0.168	0.241	0.229	17.89
42) Hexachlorobu	0.125	0.151	0.155	0.159	0.169	0.174	0.136	0.138	0.151	11.30

Initial Calibration Summary

Job Number: JD91339 **Sample:** E3E5799-ICC5799
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3E124710.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

43) 4-Chloro-3-m 0.254 0.272 0.306 0.318 0.330 0.324 0.219 0.271 0.287 13.58
44) 2-Methylnaph 0.540 0.597 0.625 0.635 0.662 0.676 0.531 0.567 0.604 9.03
45) 1-Methylnaph 0.516 0.568 0.578 0.607 0.638 0.630 0.489 0.538 0.571 9.42

46) I Acenaphthene-d10 ----------ISTD----------
47) Hexachlorocy 0.232 0.264 0.313 0.266 0.278 0.300 0.234 0.266 0.269 10.62
48) 1,2,4,5-tetr 0.453 0.473 0.497 0.496 0.521 0.550 0.459 0.469 0.490 6.79
49) 2,4,6-Trichl 0.267 0.286 0.345 0.341 0.361 0.375 0.271 0.316 0.320 13.04
50) 2,4,5-Trichl 0.271 0.326 0.364 0.367 0.392 0.407 0.270 0.334 0.341 14.98
51) 2-Fluorobiph 1.180 1.264 1.351 1.328 1.399 1.458 1.142 1.249 1.296 8.33
52) 2-Chloronaph 0.977 1.073 1.135 1.128 1.182 1.212 0.994 1.070 1.096 7.66
53) Biphenyl 1.298 1.447 1.559 1.500 1.578 1.648 1.386 1.428 1.480 7.67
54) 2-Nitroanili 0.214 0.255 0.311 0.332 0.350 0.346 0.242 0.267 0.290 17.96
55) Dimethylphth 1.222 1.263 1.386 1.357 1.416 1.459 1.181 1.242 1.316 7.74
56) Acenaphthyle 1.481 1.614 1.744 1.711 1.813 1.850 1.520 1.624 1.669 7.95
57) 2,6-Dinitrot 0.162 0.195 0.244 0.264 0.285 0.275 0.172 0.197 0.224 21.61
---- Quadratic regression ---- Coefficient = 0.9939
Response Ratio = -0.00117 + 0.20557 *A + 0.03500 *A^2

58) 3-Nitroanili 0.230 0.299 0.319 0.339 0.331 0.249 0.295 15.27
59) Acenaphthene 1.100 1.193 1.283 1.237 1.292 1.358 1.044 1.191 1.212 8.53
60) 2,4-Dinitrop 0.033 0.051 0.100 0.137 0.158 0.130 0.065 0.096 49.71
---- Quadratic regression ---- Coefficient = 0.9976
Response Ratio = -0.00786 + 0.08908 *A + 0.01376 *A^2

61) 4-Nitropheno 0.137 0.173 0.187 0.193 0.184 0.148 0.170 13.26
62) Dibenzofuran 1.446 1.541 1.691 1.658 1.737 1.791 1.423 1.567 1.607 8.37
63) 2,4-Dinitrot 0.229 0.257 0.340 0.374 0.405 0.388 0.206 0.285 0.310 24.61
---- Quadratic regression ---- Coefficient = 0.9981
Response Ratio = -0.00468 + 0.32876 *A + 0.03013 *A^2

64) 2,3,4,6-Tetr 0.209 0.247 0.282 0.290 0.308 0.316 0.200 0.252 0.263 16.49
65) Diethylphtha 1.217 1.336 1.438 1.386 1.471 1.477 1.211 1.314 1.356 7.80
66) Fluorene 1.115 1.192 1.336 1.316 1.385 1.400 1.104 1.214 1.258 9.33
67) 4-Chlorophen 0.521 0.554 0.591 0.579 0.611 0.629 0.549 0.547 0.573 6.34
68) 4-Nitroanili 0.189 0.257 0.298 0.316 0.340 0.334 0.243 0.282 19.54

69) I Phenanthrene-d10 ----------ISTD----------
70) 4,6-Dinitro- 0.047 0.078 0.097 0.107 0.096 0.054 0.080 30.80
---- Quadratic regression ---- Coefficient = 0.9983
Response Ratio = -0.00544 + 0.08184 *A + 0.01066 *A^2

71) n-Nitrosodip 0.508 0.558 0.603 0.588 0.610 0.639 0.515 0.524 0.568 8.63
72) Pentachloron 0.024 0.035 0.037 0.040 0.038 0.026 0.033# 19.83
73) 1,2-Diphenyl 0.689 0.721 0.769 0.739 0.747 0.791 0.657 0.699 0.727 6.07
74) 2,4,6-Tribro 0.067 0.076 0.093 0.097 0.102 0.101 0.059 0.076 0.084 19.61
75) 4-Bromopheny 0.143 0.158 0.172 0.173 0.181 0.189 0.150 0.148 0.164 10.31
76) Hexachlorobe 0.186 0.193 0.204 0.209 0.215 0.222 0.189 0.178 0.200 7.59
77) Pentachlorop 0.090 0.101 0.119 0.130 0.136 0.135 0.082 0.097 0.111 19.30
78) Phenanthrene 0.964 0.999 1.052 1.033 1.077 1.111 0.924 0.965 1.016 6.27
79) Anthracene 0.889 0.992 1.075 1.062 1.087 1.139 0.847 0.949 1.005 10.27
80) Carbazole 0.866 0.935 0.990 1.007 1.020 1.065 0.861 0.892 0.955 8.06
81) Di-n-butylph 1.040 1.125 1.269 1.268 1.309 1.335 1.028 1.097 1.184 10.53
82) Fluoranthene 0.922 0.987 1.091 1.075 1.115 1.140 0.896 0.943 1.021 9.33
83) Octadecane 0.452 0.505 0.536 0.515 0.523 0.554 0.424 0.469 0.497 8.96

84) I Chrysene-d12 ----------ISTD----------
85) Benzidine 0.374 0.676 0.504 0.516 0.507 0.477 0.509 19.15
86) Pyrene 1.212 1.333 1.439 1.402 1.458 1.536 1.235 1.322 1.367 8.19
87) Terphenyl-d1 0.932 1.003 1.048 1.047 1.101 1.108 0.914 0.975 1.016 7.16

Initial Calibration Summary

Job Number: JD91339 **Sample:** E3E5799-ICC5799
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3E124710.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

```
 88) Butylbenzylp 0.435 0.525 0.661 0.684 0.704 0.710 0.439 0.541 0.587  19.77
 89) Benzo[a]anth 1.152 1.201 1.323 1.293 1.321 1.399 1.257 1.209 1.269   6.33
 90) 3,3'-Dichlor 0.314 0.388 0.458 0.470 0.489 0.500 0.327 0.402 0.418  17.19
 91) Chrysene     1.100 1.158 1.311 1.251 1.290 1.356 1.165 1.190 1.228   7.18
 92) bis(2-Ethylh 0.686 0.845 0.999 1.029 1.071 1.077 0.621 0.850 0.897  19.59

 93) I   Perylene-d12          ----------------ISTD--------------------
 94) Di-n-octylph 1.073 1.289 1.684 1.607 1.642 1.746       1.344 1.483  16.85
 95) Benzo[b]fluo 1.053 1.149 1.288 1.205 1.227 1.293 0.998 1.152 1.171   8.99
 96) Benzo[k]fluo 1.042 1.144 1.293 1.142 1.230 1.255 0.978 1.087 1.146   9.51
 97) Benzo[a]pyre 0.869 0.985 1.100 1.025 1.081 1.127 0.857 0.940 0.998  10.35
 98) Indeno[1,2,3 0.828 0.939 1.084 1.065 1.117 1.129 0.836 0.915 0.989  12.55
 99) Dibenz(a,h)a 0.691 0.805 0.920 0.872 0.915 0.950 0.667 0.765 0.823  13.14
100) Dibenz[a,h]a 0.836 0.937 1.084 1.077 1.139 1.146 0.812 0.931 0.995  13.41
101) 7,12-Dimethy 0.422 0.445 0.545 0.488 0.508 0.542 0.397 0.463 0.476  11.38
102) Benzo[g,h,i] 0.824 0.891 1.040 0.983 1.022 1.049 0.783 0.869 0.933  11.15

103) I   1,4-Dichlorobenzene-d ----------------ISTD--------------------
104) Benzaldehyde 1.253 1.339 1.125 1.297 1.268 1.414 1.223 1.420 1.293   7.64

105) I   Phenanthrene-d10a     ----------------ISTD--------------------
106) Atrazine     0.077 0.084 0.078 0.086 0.088 0.094 0.059 0.087 0.082  12.98

107) I   Naphthalene-d8a       ----------------ISTD--------------------
108) Caprolactam  0.152 0.154 0.148 0.168 0.164 0.179 0.141 0.164 0.159   7.77

109) I   Phenanthrene-d10b     ----------------ISTD--------------------
110) 1-chloroocta 0.058 0.068 0.061 0.070 0.069 0.075 0.065 0.070 0.067   8.46
111) o-terphenyl  0.440 0.483 0.447 0.503 0.506 0.551 0.441 0.530 0.488   8.69


 ------------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M3E5799.M         Thu Jun 13 16:40:23 2024
```

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3E5799-ICV5799
Lab FileID: 3E124727.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\e3e5799\3E124727.D Vial: 19
Acq On : 10 Jun 2024 8:31 pm Operator: jackleey
Sample : icv5799-50 Inst : GCMS3E
Misc : op52156,e3e5799,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\methods\M3E5799.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
Last Update : Thu Jun 13 09:44:14 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00	4.86
2	t	1,4-Dioxane	0.564	0.555	1.6	91	0.00	2.79
6	t	Indene	2.407	2.393	0.6	91	0.00	5.06
7	t	Cumene	2.921	2.919	0.1	92	0.00	4.30
11	t	bis(2-Chloroethyl)ether	1.296	1.293	0.2	92	0.00	4.66
13	t	Decane	1.619	1.603	1.0	93	0.00	4.74
14	t	1,3-Dichlorobenzene	1.517	1.501	1.1	91	0.00	4.82
15	t	1,4-Dichlorobenzene	1.546	1.525	1.4	90	0.00	4.87
16	t	Benzyl alcohol	0.945	0.912	3.5	89	0.00	4.96
17	t	1,2-Dichlorobenzene	1.456	1.465	-0.6	91	0.00	4.99
18	t	Acetophenone	2.158	2.057	4.7	91	0.00	5.17
20	t	2,2'-oxybis(1-Chloropropa	0.414	0.403	2.7	89	0.00	5.06
23	t	Hexachloroethane	0.475	0.467	1.7	87	0.00	5.26
24	I	Naphthalene-d8	1.000	1.000	0.0	104	0.00	5.95
26	t	Nitrobenzene	0.348	0.327	6.0	88	0.00	5.31
27	t	Quinoline	0.672	0.647	3.7	90	-0.02	6.31
28	t	Isophorone	0.648	0.630	2.8	92	0.00	5.51
32	t	bis(2-Chloroethoxy)methan	0.398	0.385	3.3	92	0.00	5.71
35		1,3,5-Trichlorobenzene	0.294	0.283	3.7	88	0.00	5.60
36	t	1,2,4-Trichlorobenzene	0.274	0.265	3.3	89	0.00	5.89
37		1,2,3-Trichlorobenzene	0.275	0.268	2.5	91	0.00	6.11
38	t	Naphthalene	1.028	1.003	2.4	91	0.00	5.97
40	t	2,3-Dichloroaniline	0.309	0.296	4.2	90	0.00	7.05
42	t	Hexachlorobutadiene	0.151	0.146	3.3	88	0.00	6.10
44	t	2-Methylnaphthalene	0.604	0.592	2.0	91	0.00	6.72
45	t	1-Methylnaphthalene	0.571	0.553	3.2	92	0.00	6.84
46	I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00	8.06
47	t	Hexachlorocyclopentadiene	0.269	0.302	-12.3	104	0.00	6.91
48		1,2,4,5-tetrachlorobenzen	0.490	0.469	4.3	88	0.00	6.92

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3E5799-ICV5799
Lab FileID: 3E124727.D

52	t	2-Chloronaphthalene	1.096	1.092	0.4	93	0.00	7.31
53	t	Biphenyl	1.480	1.430	3.4	90	0.00	7.30
55	t	Dimethylphthalate	1.316	1.291	1.9	91	0.00	7.72
56	t	Acenaphthylene	1.669	1.702	-2.0	95	0.00	7.86
57	t	2,6-Dinitrotoluene	50.000	45.165	9.7	83	0.00	7.79
59	t	Acenaphthene	1.212	1.184	2.3	90	0.00	8.10
62	t	Dibenzofuran	1.607	1.577	1.9	91	0.00	8.35
		----------	True	Calc.	% Drift			----------
63	t	2,4-Dinitrotoluene	50.000	41.161	17.7	78	0.00	8.35
		----------	AvgRF	CCRF	% Dev			----------
65	t	Diethylphthalate	1.356	1.317	2.9	92	-0.01	8.73
66	t	Fluorene	1.258	1.249	0.7	92	0.00	8.85
67	t	4-Chlorophenyl-phenylethe	0.573	0.563	1.7	93	0.00	8.87
69	I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00	10.26
		----------	True	Calc.	% Drift			----------
		----------	AvgRF	CCRF	% Dev			----------
72		Pentachloronitrobenzene	0.033	0.031#	6.1	83	0.00	10.00
73	t	1,2-Diphenylhydrazine	0.727	0.719	1.1	94	0.00	9.11
75	t	4-Bromophenyl-phenylether	0.164	0.163	0.6	89	0.00	9.61
76	t	Hexachlorobenzene	0.200	0.195	2.5	91	0.00	9.66
78	t	Phenanthrene	1.016	1.013	0.3	94	0.00	10.30
79	t	Anthracene	1.005	1.035	-3.0	94	0.00	10.38
80	t	Carbazole	0.955	0.958	-0.3	93	0.00	10.65
81	t	Di-n-butylphthalate	1.184	1.221	-3.1	95	0.00	11.30
82	t	Fluoranthene	1.021	1.042	-2.1	95	0.00	12.17
83	t	Octadecane	0.497	0.509	-2.4	95	0.00	10.23
84	I	Chrysene-d12	1.000	1.000	0.0	106	0.00	14.47
86	t	Pyrene	1.367	1.358	0.7	94	0.00	12.52
88	t	Butylbenzylphthalate	0.587	0.615	-4.8	92	0.00	13.69
89	t	Benzo[a]anthracene	1.269	1.232	2.9	93	0.00	14.45
91	t	Chrysene	1.228	1.223	0.4	96	0.00	14.51
92	t	bis(2-Ethylhexyl)phthalat	0.897	0.958	-6.8	94	0.00	14.67
93	I	Perylene-d12	1.000	1.000	0.0	105	0.00	16.60
94	t	Di-n-octylphthalate	1.483	1.573	-6.1	94	0.00	15.67
95	t	Benzo[b]fluoranthene	1.171	1.197	-2.2	97	0.00	16.08
96	t	Benzo[k]fluoranthene	1.146	1.170	-2.1	98	0.00	16.12
97	t	Benzo[a]pyrene	0.998	1.029	-3.1	96	0.00	16.52
98	t	Indeno[1,2,3-cd]pyrene	0.989	1.048	-6.0	97	0.00	18.27

8.8.2

8

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3E5799-ICV5799
Lab FileID: 3E124727.D

99	t	Dibenz(a,h)acridine	0.823	0.870	-5.7	96	0.00	17.89
100	t	Dibenz[a,h]anthracene	0.995	1.057	-6.2	97	0.00	18.32
101	t	7,12-Dimethylbenz(a)anthr	0.476	0.458	3.8	88	0.00	16.08
102	t	Benzo[g,h,i]perylene	0.933	0.993	-6.4	99	0.00	18.75

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E124724a.D M3E5799.M Thu Jun 13 14:43:30 2024

8.8.2
8

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3E5799-ICV5799
Lab FileID: 3E124729.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\e3e5799\3E124729.D Vial: 21
Acq On : 10 Jun 2024 9:23 pm Operator: jackleey
Sample : icv5799-50 Inst : GCMS3E
Misc : op52156,e3e5799,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\methods\M3E5799.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
Last Update : Thu Jun 13 09:44:14 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	108	0.00	4.86
104	Benzaldehyde	1.293	1.293	0.0	99	-0.10	4.54
105 I	Phenanthrene-d10a	1.000	1.000	0.0	111	0.00	10.26
106	Atrazine	0.082	0.088	-7.3	105	-0.10	9.91
107 I	Naphthalene-d8a	1.000	1.000	0.0	109	0.00	5.95
108 T	Caprolactam	0.159	0.167	-5.0	101	-0.01	6.38

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E124724a.D M3E5799.M Thu Jun 13 14:43:34 2024

8.8.3

Initial Calibration Verification

Job Number: JD91339 **Sample:** E3E5802-ICV5799
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3E124757.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\e3e5802\3E124757.D Vial: 2
Acq On : 17 Jun 2024 1:30 pm Operator: karimam
Sample : icv5799-50 Inst : GCMS3E
Misc : op52156,e3e5802,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\methods\M3E5799.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
Last Update : Thu Jun 13 09:44:14 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	4.86
9	t	Phenol	1.726	1.517	12.1	86	0.00	4.58
12	t	2-Chlorophenol	1.362	1.237	9.2	86	0.00	4.70
19	t	2-Methylphenol	1.267	1.126	11.1	87	0.00	5.03
21	t	3&4-Methylphenol	1.335	1.198	10.3	84	0.00	5.16
24	I	Naphthalene-d8	1.000	1.000	0.0	105	0.00	5.95
29	t	2-Nitrophenol	0.145	0.120	17.2	74	0.00	5.59
30	t	2,4-Dimethylphenol	0.350	0.316	9.7	87	0.00	5.61
31	t	Benzoic acid	0.228	0.173	24.1	73	-0.01	5.70
33	t	2,4-Dichlorophenol	0.256	0.232	9.4	83	0.00	5.80
34	t	2,6-Dichlorophenol	0.258	0.227	12.0	80	0.00	6.03
41	t	Hydroquinone	0.229	0.227	0.9	94	0.00	6.35
43	t	4-Chloro-3-methylphenol	0.287	0.262	8.7	85	0.00	6.52
46	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00	8.06
49	t	2,4,6-Trichlorophenol	0.320	0.286	10.6	76	0.00	7.05
50	t	2,4,5-Trichlorophenol	0.341	0.316	7.3	78	0.00	7.09
		---------- True Calc. % Drift ----------						
60	t	2,4-Dinitrophenol	100.000	79.757	20.2	69	0.00	8.16
		---------- AvgRF CCRF % Dev ----------						
61	t	4-Nitrophenol	0.170	0.120	29.4	66	0.00	8.25
		---------- AvgRF CCRF % Dev ----------						
64		2,3,4,6-Tetrachlorophenol	0.263	0.224	14.8	71	0.00	8.53

8.8.4

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3E5802-ICV5799
Lab FileID: 3E124757.D

				True	Calc.	% Drift			
69	I	Phenanthrene-d10		1.000	1.000	0.0	98	0.00	10.26
70	t	4,6-Dinitro-2-methylpheno		50.000	37.573	24.9	66	-0.01	8.93
77	t	Pentachlorophenol		0.111	0.095	14.4	69	0.00	9.98

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E124724a.D M3E5799.M Wed Jun 19 08:06:58 2024

8.8.4

8

Initial Calibration Verification

Job Number: JD91339 **Sample:** E3E5802-ICV5799
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3E124759.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\e3e5802\3E124759.D Vial: 3
Acq On : 17 Jun 2024 2:15 pm Operator: karimam
Sample : icv5799-50 Inst : GCMS3E
Misc : op52156,e3e5802,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\methods\M3E5799.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
Last Update : Thu Jun 13 09:44:14 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	4.86
3	t	Pyridine	1.450	1.446	0.3	91	-0.01	3.02
4	t	N-Nitrosodimethylamine	0.739	0.793	-7.3	95	-0.02	2.98
10		Aniline	2.088	2.016	3.4	94	0.00	4.62
22	t	n-Nitroso-di-n-propylamin	1.001	0.884	11.7	86	-0.01	5.16
24	I	Naphthalene-d8	1.000	1.000	0.0	99	0.00	5.95
39	t	4-Chloroaniline	0.404	0.376	6.9	83	0.00	6.02
46	I	Acenaphthene-d10	1.000	1.000	0.0	93	0.00	8.06
54	t	2-Nitroaniline	0.290	0.262	9.7	70	0.00	7.45
55								
58	t	3-Nitroaniline	0.295	0.257	12.9	72	-0.01	8.01
68	t	4-Nitroaniline	0.282	0.243	13.8	67	0.00	8.89
69	I	Phenanthrene-d10	1.000	1.000	0.0	83	0.00	10.26
71	t	n-Nitrosodiphenylamine	0.568	0.562	1.1	73	0.00	9.05
84	I	Chrysene-d12	1.000	1.000	0.0	81	0.00	14.47
85		Benzidine	0.509	0.635	-24.8	102	0.00	12.44
90	t	3,3'-Dichlorobenzidine	0.418	0.412	1.4	67	0.00	14.46
93	I	Perylene-d12	1.000	1.000	0.0	85	0.00	16.61
106		A						

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E124724a.D M3E5799.M Wed Jun 19 08:13:11 2024

8.8.5

Continuing Calibration Summary

Job Number: JD91339 **Sample:** E3E5816-CC5799
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3E125074.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...ep\E3E5816\3E125074.d Vial: 2
Acq On : 2 Jul 2024 9:43 pm Operator: rocquans
Sample : cc5799-50 Inst : GCMS3E
Misc : op52156,e3e5816,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...ethods\M3E5799.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
Last Update : Wed Jul 03 05:52:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	4.81
2	t	1,4-Dioxane	0.564	0.497	11.9	84	0.00	2.66
3	t	Pyridine	1.450	1.476	-1.8	93	0.00	2.93
4	t	N-Nitrosodimethylamine	0.739	0.796	-7.7	96	0.00	2.89
5	S	2-Fluorophenol	1.274	1.311	-2.9	99	0.00	3.88
6	t	Indene	2.407	2.657	-10.4	104	0.00	5.01
7	t	Cumene	2.921	2.933	-0.4	95	0.00	4.24
8	S	Phenol-d5	1.603	1.782	-11.2	105	0.00	4.54
9	t	Phenol	1.726	2.097	-21.5#	115	0.00	4.55
10		Aniline	2.088	2.217	-6.2	104	0.00	4.57
11	t	bis(2-Chloroethyl)ether	1.296	1.432	-10.5	105	0.00	4.61
12	t	2-Chlorophenol	1.362	1.534	-12.6	104	0.00	4.66
13	t	Decane	1.619	1.655	-2.2	99	0.00	4.68
14	t	1,3-Dichlorobenzene	1.517	1.620	-6.8	101	0.00	4.77
15	t	1,4-Dichlorobenzene	1.546	1.680	-8.7	102	0.00	4.82
16	t	Benzyl alcohol	0.945	1.148	-21.5#	115	0.00	4.91
17	t	1,2-Dichlorobenzene	1.456	1.619	-11.2	103	0.00	4.94
18	t	Acetophenone	2.158	2.476	-14.7	113	0.00	5.13
19	t	2-Methylphenol	1.267	1.495	-18.0	111	0.00	5.00
20	t	2,2'-oxybis(1-Chloropropa	0.414	0.476	-15.0	109	0.00	5.01
21	t	3&4-Methylphenol	1.335	1.595	-19.5	109	0.00	5.13
22	t	n-Nitroso-di-n-propylamin	1.001	1.191	-19.0	116	0.00	5.13
23	t	Hexachloroethane	0.475	0.539	-13.5	104	0.00	5.21
24	I	Naphthalene-d8	1.000	1.000	0.0	115	0.00	5.90
25	S	Nitrobenzene-d5	0.333	0.388	-16.5	118	0.00	5.25
26	t	Nitrobenzene	0.348	0.397	-14.1	117	0.00	5.27
27	t	Quinoline	0.672	0.713	-6.1	109	0.00	6.28
28	t	Isophorone	0.648	0.753	-16.2	121	0.00	5.48
29	t	2-Nitrophenol	0.145	0.202	-39.3#	136	0.00	5.54
30	t	2,4-Dimethylphenol	0.350	0.397	-13.4	119	0.00	5.58
31	t	Benzoic acid	0.228	0.334	-46.5#	152	0.00	5.72
32	t	bis(2-Chloroethoxy)methan	0.398	0.437	-9.8	115	0.00	5.66
33	t	2,4-Dichlorophenol	0.256	0.305	-19.1	118	0.00	5.77
34	t	2,6-Dichlorophenol	0.258	0.306	-18.6	118	0.00	5.98
35		1,3,5-Trichlorobenzene	0.294	0.310	-5.4	105	0.00	5.55
36	t	1,2,4-Trichlorobenzene	0.274	0.311	-13.5	114	0.00	5.85
37		1,2,3-Trichlorobenzene	0.275	0.306	-11.3	114	0.00	6.06
38	t	Naphthalene	1.028	1.150	-11.9	115	0.00	5.93
39	t	4-Chloroaniline	0.404	0.460	-13.9	118	0.00	5.97
40	t	2,3-Dichloroaniline	0.309	0.384	-24.3#	128	0.00	7.00
41	t	Hydroquinone	0.229	0.215	6.1	97	0.00	6.34

Continuing Calibration Summary

Job Number: JD91339 **Sample:** E3E5816-CC5799
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3E125074.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42	t	Hexachlorobutadiene	0.151	0.167	-10.6	110	0.00	6.04
43	t	4-Chloro-3-methylphenol	0.287	0.358	-24.7#	127	0.00	6.50
44	t	2-Methylnaphthalene	0.604	0.711	-17.7	121	0.00	6.66
45	t	1-Methylnaphthalene	0.571	0.680	-19.1	124	0.00	6.78
46	I	Acenaphthene-d10	1.000	1.000	0.0	132	0.00	8.00
47	t	Hexachlorocyclopentadiene	0.269	0.275	-2.2	121	0.00	6.85
48		1,2,4,5-tetrachlorobenzen	0.490	0.518	-5.7	124	0.00	6.86
49	t	2,4,6-Trichlorophenol	0.320	0.362	-13.1	127	0.00	7.01
50	t	2,4,5-Trichlorophenol	0.341	0.396	-16.1	129	0.00	7.06
51	S	2-Fluorobiphenyl	1.296	1.383	-6.7	125	0.00	7.11
52	t	2-Chloronaphthalene	1.096	1.165	-6.3	127	0.00	7.26
53	t	Biphenyl	1.480	1.577	-6.6	126	0.00	7.24
54	t	2-Nitroaniline	0.290	0.383	-32.1#	146	0.00	7.40
55	t	Dimethylphthalate	1.316	1.473	-11.9	133	0.00	7.66
56	t	Acenaphthylene	1.669	1.834	-9.9	131	0.00	7.80
		----------	True	Calc.	% Drift	----------		
57	t	2,6-Dinitrotoluene	50.000	61.963	-23.9#	154	0.00	7.74
		----------	AvgRF	CCRF	% Dev	----------		
58	t	3-Nitroaniline	0.295	0.379	-28.5#	151	0.00	7.97
59	t	Acenaphthene	1.212	1.325	-9.3	129	0.00	8.04
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	154.796	-54.8#	221	0.00	8.12
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.170	0.213	-25.3#	153	0.00	8.24
62	t	Dibenzofuran	1.607	1.789	-11.3	132	0.00	8.29
		----------	True	Calc.	% Drift	----------		
63	t	2,4-Dinitrotoluene	50.000	61.899	-23.8#	157	0.00	8.31
		----------	AvgRF	CCRF	% Dev	----------		
64		2,3,4,6-Tetrachlorophenol	0.263	0.328	-24.7#	137	0.00	8.48
65	t	Diethylphthalate	1.356	1.546	-14.0	138	0.00	8.68
66	t	Fluorene	1.258	1.482	-17.8	140	0.00	8.79
67	t	4-Chlorophenyl-phenylethe	0.573	0.648	-13.1	136	0.00	8.81
68	t	4-Nitroaniline	0.282	0.383	-35.8#	151	0.00	8.86
69	I	Phenanthrene-d10	1.000	1.000	0.0	139	0.01	10.20
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	70.379	-40.8#	199	0.00	8.91
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.568	0.639	-12.5	139	0.00	8.99
72		Pentachloronitrobenzene	0.033	0.043#	-30.3#	156	0.00	9.95
73	t	1,2-Diphenylhydrazine	0.727	0.757	-4.1	133	0.00	9.04
74	S	2,4,6-Tribromophenol	0.084	0.109	-29.8#	150	0.00	9.15
75	t	4-Bromophenyl-phenylether	0.164	0.188	-14.6	138	0.00	9.54
76	t	Hexachlorobenzene	0.200	0.225	-12.5	141	0.00	9.61
77	t	Pentachlorophenol	0.111	0.135	-21.6#	139	0.00	9.93
78	t	Phenanthrene	1.016	1.132	-11.4	142	0.00	10.24
79	t	Anthracene	1.005	1.154	-14.8	141	0.00	10.32
80	t	Carbazole	0.955	1.079	-13.0	141	0.00	10.60
81	t	Di-n-butylphthalate	1.184	1.386	-17.1	145	0.00	11.23
82	t	Fluoranthene	1.021	1.195	-17.0	146	0.00	12.11
83	t	Octadecane	0.497	0.538	-8.2	136	0.00	10.16

Continuing Calibration Summary

Job Number: JD91339 **Sample:** E3E5816-CC5799
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3E125074.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

84	I	Chrysene-d12	1.000	1.000	0.0	149	0.02	14.41
85		Benzidine	0.509	0.496	2.6	146	0.00	12.37
86	t	Pyrene	1.367	1.502	-9.9	145	0.00	12.46
87	S	Terphenyl-d14	1.016	1.106	-8.9	149	0.00	12.77
88	t	Butylbenzylphthalate	0.587	0.747	-27.3#	157	0.00	13.62
89	t	Benzo[a]anthracene	1.269	1.386	-9.2	147	0.00	14.39
90	t	3,3'-Dichlorobenzidine	0.418	0.519	-24.2#	154	0.00	14.40
91	t	Chrysene	1.228	1.355	-10.3	149	0.00	14.46
92	t	bis(2-Ethylhexyl)phthalat	0.897	1.104	-23.1#	152	0.00	14.59
93	I	Perylene-d12	1.000	1.000	0.0	159	0.00	16.54
94	t	Di-n-octylphthalate	1.483	1.683	-13.5	153	0.00	15.59
95	t	Benzo[b]fluoranthene	1.171	1.297	-10.8	159	0.00	16.03
96	t	Benzo[k]fluoranthene	1.146	1.214	-5.9	154	0.00	16.07
97	t	Benzo[a]pyrene	0.998	1.101	-10.3	155	0.00	16.46
98	t	Indeno[1,2,3-cd]pyrene	0.989	1.197	-21.0#	168	0.00	18.19
99	t	Dibenz(a,h)acridine	0.823	0.960	-16.6	160	0.00	17.82
100	t	Dibenz[a,h]anthracene	0.995	1.165	-17.1	161	0.00	18.24
101	t	7,12-Dimethylbenz(a)anthr	0.476	0.499	-4.8	146	0.00	16.02
102	t	Benzo[g,h,i]perylene	0.933	1.082	-16.0	164	0.00	18.66

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E125075.d M3E5799.M Wed Jul 03 05:53:10 2024

8.8.6

8

Continuing Calibration Summary

Job Number: JD91339 **Sample:** E3E5816-CC5799
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3E125075.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...ep\E3E5816\3E125075.d Vial: 3
Acq On : 2 Jul 2024 10:09 pm Operator: rocquans
Sample : cc5799-50 Inst : GCMS3E
Misc : op52156,e3e5816,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...ethods\M3E5799.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
Last Update : Wed Jul 03 05:52:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	101	0.00	4.81
104		Benzaldehyde	1.293	1.349	-4.3	96	0.00	4.49
105	I	Phenanthrene-d10a	1.000	1.000	0.0	123	0.00	10.19
106		Atrazine	0.082	0.099	-20.7#	130	0.00	9.85
107	I	Naphthalene-d8a	1.000	1.000	0.0	103	0.00	5.90
108	T	Caprolactam	0.159	0.205	-28.9#	118	0.00	6.34
109	I	Phenanthrene-d10b	1.000	1.000	0.0	123	0.00	10.19
110	S	1-chlorooctadecane	0.067	0.075	-11.9	122	0.00	12.06
111	S	o-terphenyl	0.488	0.550	-12.7	123	0.00	10.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E125075.d M3E5799.M Wed Jul 03 05:53:13 2024

8.8.7

Continuing Calibration Summary

Job Number: JD91339 **Sample:** E3E5817-CC5799
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3E125098.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...am\e3e5817\3E125098.d Vial: 2
Acq On : 3 Jul 2024 11:15 am Operator: anthonyo
Sample : cc5799-50 Inst : GCMS3E
Misc : op52156,e3e5817,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...method\M3E5799.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
Last Update : Thu Jul 04 05:20:43 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	68	0.00	4.80
2	t	1,4-Dioxane	0.564	0.515	8.7	58	0.00	2.65
3	t	Pyridine	1.450	1.467	-1.2	62	0.00	2.91
4	t	N-Nitrosodimethylamine	0.739	0.795	-7.6	64	0.00	2.87
5	S	2-Fluorophenol	1.274	1.315	-3.2	66	0.00	3.87
6	t	Indene	2.407	2.637	-9.6	69	0.00	5.01
7	t	Cumene	2.921	2.940	-0.7	64	0.00	4.24
8	S	Phenol-d5	1.603	1.748	-9.0	69	0.00	4.54
9	t	Phenol	1.726	2.058	-19.2	76	0.00	4.55
10		Aniline	2.088	2.203	-5.5	69	0.00	4.56
11	t	bis(2-Chloroethyl)ether	1.296	1.421	-9.6	69	0.00	4.60
12	t	2-Chlorophenol	1.362	1.534	-12.6	69	0.00	4.65
13	t	Decane	1.619	1.668	-3.0	67	0.00	4.68
14	t	1,3-Dichlorobenzene	1.517	1.628	-7.3	68	0.00	4.77
15	t	1,4-Dichlorobenzene	1.546	1.669	-8.0	68	0.00	4.82
16	t	Benzyl alcohol	0.945	1.122	-18.7	75	0.00	4.91
17	t	1,2-Dichlorobenzene	1.456	1.601	-10.0	68	0.00	4.94
18	t	Acetophenone	2.158	2.413	-11.8	73	0.00	5.12
19	t	2-Methylphenol	1.267	1.454	-14.8	72	0.00	5.00
20	t	2,2'-oxybis(1-Chloropropa	0.414	0.461	-11.4	70	0.00	5.01
21	t	3&4-Methylphenol	1.335	1.559	-16.8	71	0.00	5.12
22	t	n-Nitroso-di-n-propylamin	1.001	1.205	-20.4#	79	0.00	5.12
23	t	Hexachloroethane	0.475	0.528	-11.2	68	0.00	5.21
24	I	Naphthalene-d8	1.000	1.000	0.0	76	0.00	5.90
25	S	Nitrobenzene-d5	0.333	0.388	-16.5	78	0.00	5.25
26	t	Nitrobenzene	0.348	0.386	-10.9	75	0.00	5.26
27	t	Quinoline	0.672	0.697	-3.7	70	0.00	6.28
28	t	Isophorone	0.648	0.746	-15.1	79	0.00	5.47
29	t	2-Nitrophenol	0.145	0.200	-37.9#	89	0.00	5.54
30	t	2,4-Dimethylphenol	0.350	0.385	-10.0	76	0.00	5.57
31	t	Benzoic acid	0.228	0.322	-41.2#	97	0.00	5.69
32	t	bis(2-Chloroethoxy)methan	0.398	0.430	-8.0	75	0.00	5.65
33	t	2,4-Dichlorophenol	0.256	0.305	-19.1	78	0.00	5.76
34	t	2,6-Dichlorophenol	0.258	0.301	-16.7	77	0.00	5.98
35		1,3,5-Trichlorobenzene	0.294	0.306	-4.1	69	0.00	5.55
36	t	1,2,4-Trichlorobenzene	0.274	0.302	-10.2	74	0.00	5.84
37		1,2,3-Trichlorobenzene	0.275	0.307	-11.6	76	0.00	6.06
38	t	Naphthalene	1.028	1.137	-10.6	75	0.00	5.92
39	t	4-Chloroaniline	0.404	0.449	-11.1	76	0.00	5.97
40	t	2,3-Dichloroaniline	0.309	0.376	-21.7#	83	0.00	7.00
41	t	Hydroquinone	0.229	0.233	-1.7	70	0.00	6.34

Continuing Calibration Summary

Job Number: JD91339 **Sample:** E3E5817-CC5799
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3E125098.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42	t	Hexachlorobutadiene	0.151	0.164	-8.6	72	0.00	6.04
43	t	4-Chloro-3-methylphenol	0.287	0.353	-23.0#	83	0.00	6.49
44	t	2-Methylnaphthalene	0.604	0.699	-15.7	78	0.00	6.66
45	t	1-Methylnaphthalene	0.571	0.683	-19.6	82	0.00	6.78
46	I	Acenaphthene-d10	1.000	1.000	0.0	86	0.00	8.00
47	t	Hexachlorocyclopentadiene	0.269	0.267	0.7	77	0.00	6.85
48		1,2,4,5-tetrachlorobenzen	0.490	0.502	-2.4	79	0.00	6.86
49	t	2,4,6-Trichlorophenol	0.320	0.361	-12.8	83	0.00	7.01
50	t	2,4,5-Trichlorophenol	0.341	0.396	-16.1	84	0.00	7.05
51	S	2-Fluorobiphenyl	1.296	1.358	-4.8	80	0.00	7.11
52	t	2-Chloronaphthalene	1.096	1.168	-6.6	83	0.00	7.25
53	t	Biphenyl	1.480	1.583	-7.0	83	0.00	7.24
54	t	2-Nitroaniline	0.290	0.378	-30.3#	94	0.00	7.40
55	t	Dimethylphthalate	1.316	1.476	-12.2	87	0.00	7.66
56	t	Acenaphthylene	1.669	1.839	-10.2	86	0.00	7.80
		----------	True	Calc.	% Drift	----------		
57	t	2,6-Dinitrotoluene	50.000	61.289	-22.6#	99	0.00	7.73
		----------	AvgRF	CCRF	% Dev	----------		
58	t	3-Nitroaniline	0.295	0.379	-28.5#	99	0.00	7.96
59	t	Acenaphthene	1.212	1.328	-9.6	84	0.00	8.04
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	151.826	-51.8#	140	0.00	8.11
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.170	0.206	-21.2#	97	0.00	8.23
62	t	Dibenzofuran	1.607	1.793	-11.6	86	0.00	8.28
		----------	True	Calc.	% Drift	----------		
63	t	2,4-Dinitrotoluene	50.000	60.487	-21.0#	100	0.00	8.30
		----------	AvgRF	CCRF	% Dev	----------		
64		2,3,4,6-Tetrachlorophenol	0.263	0.327	-24.3#	89	0.00	8.47
65	t	Diethylphthalate	1.356	1.539	-13.5	90	0.00	8.68
66	t	Fluorene	1.258	1.453	-15.5	89	0.00	8.78
67	t	4-Chlorophenyl-phenylethe	0.573	0.639	-11.5	88	0.00	8.80
68	t	4-Nitroaniline	0.282	0.375	-33.0#	97	0.00	8.85
69	I	Phenanthrene-d10	1.000	1.000	0.0	89	0.00	10.19
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	69.618	-39.2#	126	0.00	8.89
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.568	0.644	-13.4	90	0.00	8.99
72		Pentachloronitrobenzene	0.033	0.041#	-24.2#	96	0.00	9.94
73	t	1,2-Diphenylhydrazine	0.727	0.765	-5.2	86	0.00	9.04
74	S	2,4,6-Tribromophenol	0.084	0.107	-27.4#	94	0.00	9.14
75	t	4-Bromophenyl-phenylether	0.164	0.192	-17.1	91	0.00	9.54
76	t	Hexachlorobenzene	0.200	0.224	-12.0	90	0.00	9.61
77	t	Pentachlorophenol	0.111	0.133	-19.8	88	0.00	9.93
78	t	Phenanthrene	1.016	1.131	-11.3	91	0.00	10.23
79	t	Anthracene	1.005	1.151	-14.5	90	0.00	10.31
80	t	Carbazole	0.955	1.084	-13.5	91	0.00	10.59
81	t	Di-n-butylphthalate	1.184	1.388	-17.2	93	0.00	11.22
82	t	Fluoranthene	1.021	1.193	-16.8	94	0.00	12.10
83	t	Octadecane	0.497	0.552	-11.1	89	0.00	10.15

Continuing Calibration Summary

Job Number: JD91339 **Sample:** E3E5817-CC5799
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3E125098.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

84	I	Chrysene-d12	1.000	1.000	0.0	92	0.00	14.40
85		Benzidine	0.509	0.524	-2.9	95	0.00	12.37
86	t	Pyrene	1.367	1.532	-12.1	92	0.00	12.46
87	S	Terphenyl-d14	1.016	1.106	-8.9	92	0.00	12.77
88	t	Butylbenzylphthalate	0.587	0.763	-30.0#	99	0.00	13.61
89	t	Benzo[a]anthracene	1.269	1.397	-10.1	92	0.00	14.39
90	t	3,3'-Dichlorobenzidine	0.418	0.525	-25.6#	97	0.00	14.39
91	t	Chrysene	1.228	1.363	-11.0	93	0.00	14.45
92	t	bis(2-Ethylhexyl)phthalat	0.897	1.127	-25.6#	96	0.00	14.59
93	I	Perylene-d12	1.000	1.000	0.0	98	0.00	16.53
94	t	Di-n-octylphthalate	1.483	1.732	-16.8	97	0.00	15.59
95	t	Benzo[b]fluoranthene	1.171	1.277	-9.1	97	0.00	16.01
96	t	Benzo[k]fluoranthene	1.146	1.224	-6.8	96	0.00	16.06
97	t	Benzo[a]pyrene	0.998	1.116	-11.8	97	0.00	16.46
98	t	Indeno[1,2,3-cd]pyrene	0.989	1.213	-22.6#	106	0.00	18.18
99	t	Dibenz(a,h)acridine	0.823	0.969	-17.7	100	0.00	17.81
100	t	Dibenz[a,h]anthracene	0.995	1.176	-18.2	101	0.00	18.22
101	t	7,12-Dimethylbenz(a)anthr	0.476	0.495	-4.0	90	0.00	16.01
102	t	Benzo[g,h,i]perylene	0.933	1.114	-19.4	104	0.00	18.65

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E125099.d M3E5799.M Thu Jul 04 05:20:56 2024

Continuing Calibration Summary

Job Number: JD91339 **Sample:** E3E5817-CC5799
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3E125099.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...am\e3e5817\3E125099.d Vial: 3
Acq On : 3 Jul 2024 11:41 am Operator: anthonyo
Sample : cc5799-50 Inst : GCMS3E
Misc : op52156,e3e5817,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...method\M3E5799.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
Last Update : Thu Jul 04 05:20:43 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	67	0.00	4.80
104	Benzaldehyde	1.293	1.316	-1.8	63	0.00	4.49
105 I	Phenanthrene-d10a	1.000	1.000	0.0	88	0.00	10.19
106	Atrazine	0.082	0.103	-25.6#	97	0.00	9.84
107 I	Naphthalene-d8a	1.000	1.000	0.0	69	0.00	5.89
108 T	Caprolactam	0.159	0.218	-37.1#	83	0.00	6.33
109 I	Phenanthrene-d10b	1.000	1.000	0.0	88	0.00	10.19
110 S	1-chlorooctadecane	0.067	0.076	-13.4	89	0.00	12.06
111 S	o-terphenyl	0.488	0.558	-14.3	89	0.00	10.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E125099.d M3E5799.M Thu Jul 04 05:20:58 2024

Continuing Calibration Summary

Job Number: JD91339 **Sample:** E3E5819-CC5799
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3E125151.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...se\E3E5819\3E125151.d Vial: 2
Acq On : 5 Jul 2024 7:57 am Operator: kaleigh
Sample : cc5799-50 Inst : GCMS3E
Misc : op52156,e3e5819,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...ethods\M3E5799.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
Last Update : Fri Jul 05 15:24:01 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	78	0.00	4.80
2	t	1,4-Dioxane	0.564	0.533	5.5	68	0.00	2.65
3	t	Pyridine	1.450	1.421	2.0	68	0.00	2.91
4	t	N-Nitrosodimethylamine	0.739	0.734	0.7	67	0.00	2.88
5	S	2-Fluorophenol	1.274	1.302	-2.2	74	0.00	3.87
6	t	Indene	2.407	2.504	-4.0	74	0.00	5.00
7	t	Cumene	2.921	2.970	-1.7	73	0.00	4.23
8	S	Phenol-d5	1.603	1.649	-2.9	73	0.00	4.53
9	t	Phenol	1.726	1.881	-9.0	79	0.00	4.54
10		Aniline	2.088	2.041	2.3	73	0.00	4.56
11	t	bis(2-Chloroethyl)ether	1.296	1.320	-1.9	73	0.00	4.60
12	t	2-Chlorophenol	1.362	1.461	-7.3	75	0.00	4.65
13	t	Decane	1.619	1.736	-7.2	79	0.00	4.67
14	t	1,3-Dichlorobenzene	1.517	1.586	-4.5	75	0.00	4.76
15	t	1,4-Dichlorobenzene	1.546	1.615	-4.5	74	0.00	4.82
16	t	Benzyl alcohol	0.945	0.999	-5.7	76	0.00	4.90
17	t	1,2-Dichlorobenzene	1.456	1.558	-7.0	75	0.00	4.93
18	t	Acetophenone	2.158	2.115	2.0	73	0.00	5.12
19	t	2-Methylphenol	1.267	1.330	-5.0	75	0.00	4.99
20	t	2,2'-oxybis(1-Chloropropa	0.414	0.419	-1.2	73	0.00	5.01
21	t	3&4-Methylphenol	1.335	1.395	-4.5	72	0.00	5.12
22	t	n-Nitroso-di-n-propylamin	1.001	1.036	-3.5	77	0.00	5.11
23	t	Hexachloroethane	0.475	0.535	-12.6	78	0.00	5.20
24	I	Naphthalene-d8	1.000	1.000	0.0	77	0.00	5.89
25	S	Nitrobenzene-d5	0.333	0.390	-17.1	80	0.00	5.24
26	t	Nitrobenzene	0.348	0.388	-11.5	77	0.00	5.26
27	t	Quinoline	0.672	0.660	1.8	68	0.00	6.27
28	t	Isophorone	0.648	0.701	-8.2	76	0.00	5.47
29	t	2-Nitrophenol	0.145	0.198	-36.6#	90	0.00	5.54
30	t	2,4-Dimethylphenol	0.350	0.381	-8.9	77	0.00	5.57
31	t	Benzoic acid	0.228	0.296	-29.8#	91	0.00	5.68
32	t	bis(2-Chloroethoxy)methan	0.398	0.424	-6.5	75	0.00	5.65
33	t	2,4-Dichlorophenol	0.256	0.298	-16.4	78	0.00	5.76
34	t	2,6-Dichlorophenol	0.258	0.293	-13.6	76	0.00	5.97
35		1,3,5-Trichlorobenzene	0.294	0.325	-10.5	74	0.00	5.55
36	t	1,2,4-Trichlorobenzene	0.274	0.309	-12.8	77	0.00	5.84
37		1,2,3-Trichlorobenzene	0.275	0.302	-9.8	76	0.00	6.06
38	t	Naphthalene	1.028	1.119	-8.9	75	0.00	5.92
39	t	4-Chloroaniline	0.404	0.444	-9.9	77	0.00	5.97
40	t	2,3-Dichloroaniline	0.309	0.350	-13.3	78	0.00	7.00
41	t	Hydroquinone	0.229	0.235	-2.6	72	0.00	6.32

Continuing Calibration Summary

Job Number: JD91339 **Sample:** E3E5819-CC5799
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3E125151.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42	t	Hexachlorobutadiene	0.151	0.173	-14.6	77	0.00	6.03
43	t	4-Chloro-3-methylphenol	0.287	0.331	-15.3	79	0.00	6.49
44	t	2-Methylnaphthalene	0.604	0.671	-11.1	77	0.00	6.66
45	t	1-Methylnaphthalene	0.571	0.643	-12.6	79	0.00	6.78
46	I	Acenaphthene-d10	1.000	1.000	0.0	78	0.00	7.99
47	t	Hexachlorocyclopentadiene	0.269	0.298	-10.8	77	0.00	6.84
48		1,2,4,5-tetrachlorobenzen	0.490	0.560	-14.3	80	0.00	6.86
49	t	2,4,6-Trichlorophenol	0.320	0.379	-18.4	79	0.00	7.00
50	t	2,4,5-Trichlorophenol	0.341	0.414	-21.4#	79	0.00	7.05
51	S	2-Fluorobiphenyl	1.296	1.459	-12.6	78	0.00	7.10
52	t	2-Chloronaphthalene	1.096	1.244	-13.5	80	0.00	7.25
53	t	Biphenyl	1.480	1.657	-12.0	78	0.00	7.23
54	t	2-Nitroaniline	0.290	0.383	-32.1#	86	0.00	7.39
55	t	Dimethylphthalate	1.316	1.462	-11.1	78	0.00	7.65
56	t	Acenaphthylene	1.669	1.880	-12.6	79	0.00	7.80
		----------	True	Calc.	% Drift	----------		
57	t	2,6-Dinitrotoluene	50.000	61.766	-23.5#	91	0.00	7.72
		----------	AvgRF	CCRF	% Dev	----------		
58	t	3-Nitroaniline	0.295	0.365	-23.7#	86	0.00	7.95
59	t	Acenaphthene	1.212	1.346	-11.1	77	0.00	8.04
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	146.193	-46.2#	120	0.00	8.12
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.170	0.198	-16.5	84	0.00	8.23
62	t	Dibenzofuran	1.607	1.794	-11.6	78	0.00	8.28
		----------	True	Calc.	% Drift	----------		
63	t	2,4-Dinitrotoluene	50.000	59.881	-19.8	89	0.00	8.30
		----------	AvgRF	CCRF	% Dev	----------		
64		2,3,4,6-Tetrachlorophenol	0.263	0.321	-22.1#	79	0.00	8.47
65	t	Diethylphthalate	1.356	1.486	-9.6	78	0.00	8.66
66	t	Fluorene	1.258	1.449	-15.2	81	0.00	8.78
67	t	4-Chlorophenyl-phenylethe	0.573	0.637	-11.2	79	0.00	8.80
68	t	4-Nitroaniline	0.282	0.363	-28.7#	85	0.00	8.84
69	I	Phenanthrene-d10	1.000	1.000	0.0	78	0.00	10.19
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	70.345	-40.7#	111	0.00	8.89
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.568	0.667	-17.4	81	0.00	8.98
72		Pentachloronitrobenzene	0.033	0.042#	-27.3#	85	0.00	9.94
73	t	1,2-Diphenylhydrazine	0.727	0.793	-9.1	78	0.00	9.03
74	S	2,4,6-Tribromophenol	0.084	0.108	-28.6#	83	0.00	9.14
75	t	4-Bromophenyl-phenylether	0.164	0.194	-18.3	80	0.00	9.53
76	t	Hexachlorobenzene	0.200	0.227	-13.5	79	0.00	9.61
77	t	Pentachlorophenol	0.111	0.126	-13.5	72	0.00	9.93
78	t	Phenanthrene	1.016	1.126	-10.8	79	0.00	10.23
79	t	Anthracene	1.005	1.162	-15.6	79	0.00	10.31
80	t	Carbazole	0.955	1.073	-12.4	78	0.00	10.58
81	t	Di-n-butylphthalate	1.184	1.364	-15.2	79	0.00	11.22
82	t	Fluoranthene	1.021	1.170	-14.6	80	0.00	12.10
83	t	Octadecane	0.497	0.573	-15.3	80	0.00	10.15

Continuing Calibration Summary

Job Number: JD91339 **Sample:** E3E5819-CC5799
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3E125151.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

84	I	Chrysene-d12	1.000	1.000	0.0	78	0.00	14.41
85		Benzidine	0.509	0.639	-25.5#	99	0.00	12.37
86	t	Pyrene	1.367	1.553	-13.6	79	0.00	12.46
87	S	Terphenyl-d14	1.016	1.139	-12.1	81	0.00	12.77
88	t	Butylbenzylphthalate	0.587	0.760	-29.5#	84	0.00	13.61
89	t	Benzo[a]anthracene	1.269	1.410	-11.1	79	0.00	14.39
90	t	3,3'-Dichlorobenzidine	0.418	0.525	-25.6#	82	0.00	14.39
91	t	Chrysene	1.228	1.360	-10.7	79	0.00	14.45
92	t	bis(2-Ethylhexyl)phthalat	0.897	1.128	-25.8#	82	0.00	14.59
93	I	Perylene-d12	1.000	1.000	0.0	86	0.00	16.54
94	t	Di-n-octylphthalate	1.483	1.680	-13.3	83	0.00	15.59
95	t	Benzo[b]fluoranthene	1.171	1.279	-9.2	85	0.00	16.02
96	t	Benzo[k]fluoranthene	1.146	1.204	-5.1	82	0.00	16.06
97	t	Benzo[a]pyrene	0.998	1.113	-11.5	85	0.00	16.46
98	t	Indeno[1,2,3-cd]pyrene	0.989	1.249	-26.3#	95	0.00	18.19
99	t	Dibenz(a,h)acridine	0.823	1.018	-23.7#	92	0.00	17.81
100	t	Dibenz[a,h]anthracene	0.995	1.212	-21.8#	91	0.00	18.24
101	t	7,12-Dimethylbenz(a)anthr	0.476	0.518	-8.8	82	0.00	16.02
102	t	Benzo[g,h,i]perylene	0.933	1.143	-22.5#	93	0.00	18.66

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E125153.d M3E5799.M Fri Jul 05 15:25:43 2024

8.8.10

8

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: E3E5819-CC5799
Lab FileID: 3E125153.D

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...se\E3E5819\3E125153.d Vial: 4
Acq On : 5 Jul 2024 8:49 am Operator: kaleigh
Sample : cc5799-50 Inst : GCMS3E
Misc : op52156,e3e5819,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...ethods\M3E5799.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
Last Update : Fri Jul 05 15:24:01 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103 I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	98	0.00	4.80
104	Benzaldehyde	1.293	1.281	0.9	89	0.00	4.48
105 I	Phenanthrene-d10a	1.000	1.000	0.0	100	0.00	10.19
106	Atrazine	0.082	0.100	-22.0#	107	0.00	9.84
107 I	Naphthalene-d8a	1.000	1.000	0.0	92	0.00	5.89
108 T	Caprolactam	0.159	0.185	-16.4	96	0.00	6.33
109 I	Phenanthrene-d10b	1.000	1.000	0.0	100	0.00	10.19
110 S	1-chlorooctadecane	0.067	0.074	-10.4	98	0.00	12.06
111 S	o-terphenyl	0.488	0.548	-12.3	99	0.00	10.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3E125153.d M3E5799.M Fri Jul 05 15:25:46 2024

8.8.11

8

Initial Calibration Summary

Job Number: JD91339 **Sample:** ECT345-ICC345
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CT7153.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Response Factor Report GCMS_CT

Method : D:\MassHunter\GC...methods\mct345.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Wed Jun 05 12:14:44 2024
Response via : Initial Calibration

Calibration Files
2 =ct7155.D 5 =ct7156.D 25 =ct7158.D 80 =ct7159.D
100 =ct7160.D 50 =ct7153.D 1 =ct7154.D 10 =ct7157.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD									
2) 1,4-Dioxane	0.589	0.579	0.611	0.652	0.676	0.674	0.604	0.579	0.620	6.57
3) Pyridine	1.394	1.537	1.651	1.755	1.844	1.818	1.396	1.503	1.612	11.23
4) N-Nitrosodim	0.752	0.790	0.839	0.918	0.963	0.936	0.693	0.751	0.830	11.99
5) 2-Fluorophen	1.065	1.205	1.340	1.426	1.484	1.495	1.104	1.203	1.290	13.13
6) Indene	2.130	2.372	2.438	2.409	2.461	2.633	2.091	2.256	2.349	7.69
7) Cumene	2.683	2.863	2.984	2.997	3.074	3.215	2.635	2.754	2.901	6.97
8) Phenol-d5	1.394	1.550	1.709	1.733	1.787	1.839	1.399	1.514	1.616	10.77
9) Phenol	1.503	1.703	1.829	1.852	1.906	1.965	1.492	1.654	1.738	10.32
10) Aniline	1.909	2.089	2.369	2.723	2.759	2.644	2.282	2.559	2.417	12.79
11) bis(2-Chloro	1.325	1.414	1.360	0.942	1.057	1.248		0.833	1.169	19.27
12) 2-Chlorophen	1.162	1.299	1.365	1.305	1.347	1.437	1.140	1.248	1.288	7.85
13) Decane	1.386	1.490	1.539	1.313	1.275	1.506	1.359	1.439	1.414	6.74
14) 1,3-Dichloro	1.358	1.496	1.544	1.530	1.573	1.654	1.400	1.404	1.495	6.74
15) 1,4-Dichloro	1.436	1.514	1.532	1.532	1.567	1.657	1.418	1.414	1.509	5.54
16) Benzyl alcoh	0.736	0.850	0.950	1.004	1.046	1.041	0.709	0.823	0.895	15.01
17) 1,2-Dichloro	1.309	1.443	1.466	1.441	1.481	1.566	1.335	1.368	1.426	5.94
18) Acetophenone	1.820	2.047	2.116	2.036	2.068	2.217	1.895	1.990	2.024	6.13
19) 2-Methylphen	1.075	1.233	1.325	1.348	1.391	1.437	1.136	1.213	1.270	9.96
20) 2,2'-oxybis(	0.419	0.436	0.455	0.454	0.476	0.499	0.404	0.426	0.446	6.99
21) 3&4-Methylph	1.159	1.306	1.355	1.345	1.377	1.442	1.131	1.276	1.299	8.24
22) n-Nitroso-di	0.820	0.913	1.003	0.975	0.987	1.068	0.759	0.906	0.929	10.91
23) Hexachloroet	0.403	0.433	0.454	0.469	0.484	0.500	0.404	0.404	0.444	8.69
24) I Naphthalene-d8	ISTD									
25) Nitrobenzene	0.343	0.387	0.448	0.444	0.455	0.468	0.355	0.390	0.411	11.76
26) Nitrobenzene	0.325	0.373	0.416	0.404	0.418	0.435	0.337	0.374	0.385	10.34
27) Quinoline	0.593	0.670	0.717	0.721	0.752	0.763	0.561	0.647	0.678	10.89
28) Isophorone	0.593	0.673	0.758	0.761	0.784	0.783	0.573	0.671	0.700	12.09
29) 2-Nitropheno	0.106	0.130	0.164	0.158	0.160	0.167	0.100	0.139	0.141	18.69
30) 2,4-Dimethyl	0.312	0.365	0.371	0.333	0.340	0.368	0.314	0.351	0.344	6.80
31) Benzoic acid		0.120	0.236	0.287	0.322	0.274		0.148	0.231	34.86
---- Quadratic regression ---- Coefficient = 0.9985										
Response Ratio = -0.01722 + 0.23499 *A + 0.03562 *A^2										
32) bis(2-Chloro	0.398	0.445	0.466	0.449	0.459	0.474	0.389	0.423	0.438	7.18
33) 2,4-Dichloro	0.221	0.257	0.283	0.279	0.288	0.301	0.231	0.257	0.264	10.67
34) 2,6-Dichloro	0.232	0.254	0.279	0.261	0.261	0.283	0.226	0.251	0.256	7.82
35) 1,3,5-Trichl	0.286	0.305	0.301	0.266	0.270	0.293	0.288	0.288	0.287	4.71
36) 1,2,4-Trichl	0.265	0.291	0.301	0.290	0.294	0.312	0.268	0.280	0.287	5.54
37) 1,2,3-Trichl	0.264	0.283	0.295	0.278	0.288	0.301	0.271	0.271	0.281	4.56
38) Naphthalene	0.976	1.035	1.061	0.974	0.979	1.085	0.956	0.999	1.008	4.64
39) 4-Chloroanil	0.374	0.433	0.435	0.397	0.400	0.433	0.365	0.412	0.406	6.71
40) 2,3-Dichloro	0.301	0.321	0.338	0.314	0.319	0.346	0.276	0.310	0.316	6.83
41) Hydroquinone	0.253	0.298	0.340	0.246	0.252	0.257	0.260	0.294	0.275	11.86
42) Hexachlorobu	0.139	0.149	0.155	0.148	0.154	0.156	0.132	0.140	0.147	5.96

Initial Calibration Summary

Job Number: JD91339 **Sample:** ECT345-ICC345
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CT7153.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

```
43) 4-Chloro-3-m 0.254 0.298 0.324 0.320 0.333 0.342 0.240 0.291 0.300  12.29
44) 2-Methylnaph 0.549 0.600 0.631 0.590 0.599 0.642 0.533 0.581 0.590   6.26
45) 1-Methylnaph 0.521 0.577 0.595 0.571 0.581 0.616 0.511 0.550 0.565   6.34

46) I   Acenaphthene-d10      ----------------ISTD---------------------
47) Hexachlorocy 0.198 0.223 0.275 0.218 0.223 0.233 0.198 0.235 0.226  10.85
48) 1,2,4,5-tetr 0.443 0.475 0.496 0.439 0.439 0.486 0.420 0.451 0.456   5.78
49) 2,4,6-Trichl 0.233 0.290 0.329 0.305 0.314 0.345 0.228 0.288 0.291  14.45
50) 2,4,5-Trichl 0.268 0.332 0.375 0.353 0.350 0.379 0.283 0.328 0.334  12.11
51) 2-Fluorobiph 1.221 1.300 1.342 1.190 1.195 1.334 1.159 1.243 1.248   5.56
52) 2-Chloronaph 1.041 1.125 1.165 1.045 1.053 1.182 0.969 1.069 1.081   6.58
53) Biphenyl     1.374 1.460 1.533 1.362 1.349 1.532 1.347 1.426 1.423   5.49
54) 2-Nitroanili       0.277 0.386 0.382 0.398 0.401       0.307 0.359  14.69
55) Dimethylphth 1.118 1.257 1.345 1.245 1.262 1.380 1.080 1.225 1.239   8.19
56) Acenaphthyle 1.307 1.556 1.714 1.566 1.570 1.731 1.180 1.548 1.522  12.42
57) 2,6-Dinitrot 0.148 0.193 0.270 0.272 0.286 0.297 0.130 0.221 0.227  28.44
            ---- Quadratic regression ----  Coefficient =  0.9972
              Response Ratio = -0.00536 + 0.27245 *A + 0.00592 *A^2

58) 3-Nitroanili       0.265 0.347 0.340 0.349 0.365       0.285 0.325  12.37
59) Acenaphthene 1.107 1.185 1.218 1.116 1.114 1.238 1.101 1.129 1.151   4.71
60) 2,4-Dinitrop 0.047 0.063 0.107 0.132 0.146 0.130       0.077 0.100  38.38
            ---- Quadratic regression ----  Coefficient =  0.9979
              Response Ratio = -0.00775 + 0.10243 *A + 0.00890 *A^2

61) 4-Nitropheno       0.157 0.210 0.215 0.225 0.226       0.179 0.202  13.83
62) Dibenzofuran 1.484 1.583 1.650 1.475 1.457 1.659 1.442 1.542 1.536   5.60
63) 2,4-Dinitrot 0.211 0.302 0.388 0.385 0.393 0.414 0.188 0.324 0.326  26.59
            ---- Quadratic regression ----  Coefficient =  0.9982
              Response Ratio = -0.00754 + 0.39650 *A + 0.00020 *A^2

64) 2,3,4,6-Tetr 0.154 0.202 0.262 0.257 0.267 0.277       0.215 0.233  19.19
65) Diethylphtha 1.096 1.244 1.377 1.258 1.280 1.406 1.053 1.228 1.243   9.81
66) Fluorene     1.135 1.248 1.327 1.197 1.207 1.335 1.057 1.229 1.217   7.61
67) 4-Chlorophen 0.492 0.528 0.570 0.514 0.516 0.573 0.449 0.524 0.521   7.69
68) 4-Nitroanili       0.269 0.350 0.349 0.355 0.380       0.293 0.333  12.68

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro-       0.047 0.079 0.097 0.104 0.096       0.059 0.081  28.69
            ---- Quadratic regression ----  Coefficient =  0.9988
              Response Ratio = -0.00591 + 0.08707 *A + 0.00763 *A^2

71) n-Nitrosodip 0.541 0.606 0.645 0.594 0.599 0.649 0.498 0.598 0.591   8.49
72) 1,2-Diphenyl 0.660 0.803 0.913 0.836 0.849 0.910 0.587 0.808 0.796  14.52
73) pentachloron       0.022 0.030 0.030 0.032 0.032       0.023 0.028# 15.65
74) 2,4,6-Tribro       0.061 0.080 0.081 0.085 0.085       0.064 0.076  13.70
75) 4-Bromopheny 0.144 0.159 0.175 0.167 0.171 0.178 0.142 0.154 0.161   8.53
76) Hexachlorobe 0.171 0.176 0.183 0.184 0.182 0.194 0.169 0.171 0.179   4.88
77) Pentachlorop 0.056 0.079 0.110 0.115 0.118 0.119       0.088 0.098  24.70
            ---- Quadratic regression ----  Coefficient =  0.9988
              Response Ratio = -0.00731 + 0.11426 *A + 0.00102 *A^2

78) Phenanthrene 0.989 1.030 1.085 1.005 1.006 1.117 0.983 1.016 1.029   4.64
79) Anthracene   0.877 1.002 1.086 1.019 1.019 1.118 0.844 0.996 0.995   9.41
80) Carbazole    0.845 0.951 1.054 0.993 0.997 1.087 0.790 0.953 0.959  10.41
81) Di-n-butylph 0.788 0.974 1.268 1.214 1.228 1.336       1.061 1.124  17.20
82) Fluoranthene 0.825 0.963 1.102 1.038 1.049 1.141 0.786 0.967 0.984  12.78
83) Octadecane   0.398 0.499 0.594 0.542 0.534 0.602 0.360 0.516 0.505  17.09

84) I   Chrysene-d12          ----------------ISTD---------------------
```

Initial Calibration Summary

Job Number: JD91339 **Sample:** ECT345-ICC345
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CT7153.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

```
 85) benzidine    0.445 0.592 0.862 0.642 0.697 0.642       0.683 0.652  19.15
 86) Pyrene       1.257 1.412 1.563 1.454 1.498 1.576 1.209 1.395 1.420   9.37
 87) Terphenyl-d1 0.849 0.971 1.077 1.040 1.061 1.130 0.837 0.966 0.991  10.71
 88) Butylbenzylp 0.313 0.442 0.691 0.741 0.759 0.775       0.534 0.608  29.72
             ---- Quadratic regression ----  Coefficient =  0.9980
               Response Ratio = -0.02754 + 0.72950 *A + 0.01770 *A^2

 89) Benzo[a]anth 1.084 1.219 1.353 1.305 1.328 1.396 1.072 1.207 1.246   9.73
 90) 3,3'-Dichlor 0.247 0.328 0.457 0.482 0.504 0.522       0.366 0.415  24.80
             ---- Quadratic regression ----  Coefficient =  0.9975
               Response Ratio = -0.01571 + 0.48525 *A + 0.00965 *A^2

 91) Chrysene     1.157 1.212 1.303 1.224 1.238 1.341 1.098 1.192 1.221   6.30
 92) bis(2-Ethylh 0.455 0.683 1.024 1.063 1.074 1.149       0.796 0.892  28.58
             ---- Quadratic regression ----  Coefficient =  0.9975
               Response Ratio = -0.04279 + 1.11445 *A + -0.00680 *A^2


 93) I   Perylene-d12          ----------------ISTD----------------------
 94) Di-n-octylph 0.597 0.929 1.582 1.621 1.726 1.776       1.161 1.342  33.73
             ---- Quadratic regression ----  Coefficient =  0.9967
               Response Ratio = -0.06997 + 1.66593 *A + 0.02954 *A^2

 95) Benzo[b]fluo 0.995 1.108 1.237 1.174 1.297 1.288 0.894 1.092 1.136  12.53
 96) Benzo[k]fluo 0.979 1.136 1.250 1.134 1.148 1.265 0.896 1.155 1.120  11.21
 97) Benzo[a]pyre 0.713 0.872 1.058 1.004 1.104 1.125 0.631 0.900 0.926  19.60
 98) Indeno[1,2,3 0.935 1.118 1.316 1.295 1.406 1.433 0.856 1.156 1.189  17.85
 99) Dibenz(a,h)a       0.660 0.862 0.865 0.940 0.949       0.710 0.831  14.41
100) Dibenz[a,h]a 0.758 0.910 1.064 1.037 1.107 1.154 0.693 0.943 0.958  17.24
101) 7,12-Dimethy 0.342 0.417 0.527 0.496 0.534 0.546       0.441 0.472  15.92
102) Benzo[g,h,i] 0.768 0.865 1.028 0.982 1.047 1.076 0.687 0.885 0.917  15.30

103)     1,4-Dichlorobenzene-d ----------------ISTD----------------------
104) Benzaldehyde 1.184 1.257 1.146 1.224 1.177 1.348 1.127 1.297 1.220   6.29

105)     Phenanthrene-d10a     ----------------ISTD----------------------
106) Atrazine     0.062 0.074 0.077 0.090 0.090 0.101 0.055 0.082 0.079  19.16

107) I   Naphthalene-d8a       ----------------ISTD----------------------
108) Caprolactam  0.109 0.137 0.151 0.180 0.180 0.197       0.157 0.159  18.85

109)     Phenanthrene-d10b     ----------------ISTD----------------------
110) 1-chloroocta 0.239 0.321 0.349 0.382 0.367 0.428       0.362 0.350  16.85
111) o-terphenyl  0.432 0.479 0.440 0.465 0.447 0.522 0.396 0.508 0.461   8.95

112) I   Chrysene-d12a         ----------------ISTD----------------------
113) 2,3,7,8-TCDD                                              0.000# -1.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          mct345.m          Wed Jun 05 13:13:32 2024
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8.8.12

8

Initial Calibration Verification

Job Number: JD91339 **Sample:** ECT345-ICV345
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CT7169.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : D:\MassHunter\GCMS\1\data\ECT345\ct7169.D Vial: 18
Acq On : 03 Jun 2024 05:48 pm Operator: jackleey
Sample : icv345-50 Inst : GCMS_CT
Misc : op54703,ect345,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : D:\MassHunter\GC...methods\mct345.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Wed Jun 05 12:14:44 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00	3.71
2	t	1,4-Dioxane	0.620	0.586	5.5	99	0.00	2.48
6	t	Indene	2.349	2.310	1.7	100	0.00	3.84
7	t	Cumene	2.901	2.822	2.7	100	0.00	3.33
11	t	bis(2-Chloroethyl)ether	1.169	1.395	-19.3	127	0.00	3.56
13	t	Decane	1.414	1.487	-5.2	113	0.00	3.60
14	t	1,3-Dichlorobenzene	1.495	1.443	3.5	100	0.00	3.68
15	t	1,4-Dichlorobenzene	1.509	1.429	5.3	98	0.00	3.72
16	t	Benzyl alcohol	0.895	0.903	-0.9	99	0.00	3.76
17	t	1,2-Dichlorobenzene	1.426	1.377	3.4	100	0.00	3.80
18	t	Acetophenone	2.024	1.950	3.7	100	0.00	3.90
20	t	2,2'-oxybis(1-Chloropropa	0.446	0.429	3.8	98	0.00	3.82
23	t	Hexachloroethane	0.444	0.428	3.6	98	0.00	3.97
24	I	Naphthalene-d8	1.000	1.000	0.0	111	0.00	4.39
26	t	Nitrobenzene	0.385	0.383	0.5	97	0.00	4.00
27	t	Quinoline	0.678	0.640	5.6	93	-0.02	4.60
28	t	Isophorone	0.700	0.699	0.1	99	0.00	4.12

			AvgRF	CCRF	% Dev			
32	t	bis(2-Chloroethoxy)methan	0.438	0.436	0.5	102	0.00	4.23
35		1,3,5-Trichlorobenzene	0.287	0.293	-2.1	111	0.00	4.17
36	t	1,2,4-Trichlorobenzene	0.287	0.275	4.2	97	0.00	4.35
37		1,2,3-Trichlorobenzene	0.281	0.271	3.6	99	0.00	4.48
38	t	Naphthalene	1.008	0.966	4.2	99	0.00	4.40
42	t	Hexachlorobutadiene	0.147	0.142	3.4	101	0.00	4.46
44	t	2-Methylnaphthalene	0.590	0.576	2.4	99	0.00	4.82
45	t	1-Methylnaphthalene	0.565	0.549	2.8	99	0.00	4.89
46	I	Acenaphthene-d10	1.000	1.000	0.0	107	0.00	5.58

Initial Calibration Verification

Job Number: JD91339 **Sample:** ECT345-ICV345
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CT7169.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

47	t	Hexachlorocyclopentadiene	0.226	0.257	-13.7	118	0.00	4.93
48		1,2,4,5-tetrachlorobenzen	0.456	0.450	1.3	99	0.00	4.93
52	t	2-Chloronaphthalene	1.081	1.067	1.3	97	0.00	5.16
53	t	Biphenyl	1.423	1.403	1.4	98	0.00	5.13
55	t	Dimethylphthalate	1.239	1.239	0.0	96	0.00	5.35
56	t	Acenaphthylene	1.522	1.632	-7.2	101	0.00	5.47
		----------	True	Calc.	% Drift	----------		
57	t	2,6-Dinitrotoluene	50.000	44.573	10.9	88	0.00	5.40
		----------	AvgRF	CCRF	% Dev	----------		
59	t	Acenaphthene	1.151	1.145	0.5	99	0.00	5.61
62	t	Dibenzofuran	1.536	1.524	0.8	98	0.00	5.74
		----------	True	Calc.	% Drift	----------		
63	t	2,4-Dinitrotoluene	50.000	43.295	13.4	87	0.00	5.72
65	t	Diethylphthalate	1.243	1.277	-2.7	97	0.00	5.91
66	t	Fluorene	1.217	1.227	-0.8	98	0.00	6.03
67	t	4-Chlorophenyl-phenylethe	0.521	0.528	-1.3	98	0.00	6.02
69	I	Phenanthrene-d10	1.000	1.000	0.0	109	0.00	6.93
72	t	1,2-Diphenylhydrazine	0.796	0.835	-4.9	100	0.00	6.16
73		pentachloronitrobenzene	0.028	0.027#	3.6	93	0.00	6.75
75	t	4-Bromophenyl-phenylether	0.161	0.163	-1.2	100	0.00	6.47
76	t	Hexachlorobenzene	0.179	0.173	3.4	97	0.00	6.54
		----------	AvgRF	CCRF	% Dev	----------		
78	t	Phenanthrene	1.029	0.993	3.5	97	0.00	6.95
79	t	Anthracene	0.995	1.018	-2.3	99	0.00	7.01
80	t	Carbazole	0.959	0.971	-1.3	97	0.00	7.17
81	t	Di-n-butylphthalate	1.124	1.193	-6.1	97	0.00	7.54
82	t	Fluoranthene	0.984	1.013	-2.9	97	0.00	8.25
83	t	Octadecane	0.505	0.565	-11.9	102	0.00	6.79
84	I	Chrysene-d12	1.000	1.000	0.0	107	0.00	9.94
86	t	Pyrene	1.420	1.452	-2.3	99	0.00	8.51
		----------	True	Calc.	% Drift	----------		
88	t	Butylbenzylphthalate	50.000	46.291	7.4	93	0.00	9.30
		----------	AvgRF	CCRF	% Dev	----------		
89	t	Benzo[a]anthracene	1.246	1.228	1.4	94	0.00	9.93
		----------	AvgRF	CCRF	% Dev	----------		
91	t	Chrysene	1.221	1.232	-0.9	98	0.00	9.98

8.8.13

8

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: ECT345-ICV345
Lab FileID: CT7169.D

				True	Calc.	% Drift			
92	t	bis(2-Ethylhexyl)phthalat		50.000	46.004	8.0	92	0.00	10.00

				AvgRF	CCRF	% Dev			
93	I	Perylene-d12		1.000	1.000	0.0	103	0.00	11.60

				True	Calc.	% Drift			
94	t	Di-n-octylphthalate		50.000	49.489	1.0	95	0.00	10.76

				AvgRF	CCRF	% Dev			
95	t	Benzo[b]fluoranthene		1.136	1.259	-10.8	101	0.00	11.16
96	t	Benzo[k]fluoranthene		1.120	1.162	-3.7	95	0.00	11.19
97	t	Benzo[a]pyrene		0.926	1.044	-12.7	96	0.00	11.53
98	t	Indeno[1,2,3-cd]pyrene		1.189	1.325	-11.4	96	-0.01	13.00
99	t	Dibenz(a,h)acridine		0.831	0.861	-3.6	94	-0.01	12.67
100	t	Dibenz[a,h]anthracene		0.958	1.046	-9.2	94	-0.01	13.03
101	t	7,12-Dimethylbenz(a)anthr		0.472	0.497	-5.3	94	-0.01	11.15
102	t	Benzo[g,h,i]perylene		0.917	1.005	-9.6	96	-0.02	13.40

(#) = Out of Range SPCC's out = 0 CCC's out = 0
ct7161.D mct345.m Wed Jun 05 13:07:32 2024

8.8.13

8

Initial Calibration Verification

Job Number: JD91339 **Sample:** ECT345-ICV345
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CT7172.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : D:\MassHunter\GCMS\1\data\ECT345\ct7172.D Vial: 21
Acq On : 03 Jun 2024 06:45 pm Operator: jackleey
Sample : icv345-50 Inst : GCMS_CT
Misc : op54703,ect345,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : D:\MassHunter\GC...methods\mct345.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Tue Jun 04 17:57:27 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	105	0.00	3.71
104	Benzaldehyde	1.220	1.272	-4.3	99	0.00	3.50
105	Phenanthrene-d10a	1.000	1.000	0.0	106	0.00	6.93
106	Atrazine	0.079	0.090	-13.9	95	0.00	6.63
107 I	Naphthalene-d8a	1.000	1.000	0.0	105	0.00	4.39
108 T	Caprolactam	0.159	0.181	-13.8	96	0.00	4.64

(#) = Out of Range SPCC's out = 0 CCC's out = 0
ct7161.D mct345.m Wed Jun 05 10:49:34 2024

Initial Calibration Verification

Job Number: JD91339 **Sample:** ECT346-ICV345
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CT7174.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : D:\MassHunter\GCMS\1\data\ECT346\ct7174.D Vial: 2
Acq On : 05 Jun 2024 02:49 pm Operator: kaleigh
Sample : icv345-50 Inst : GCMS_CT
Misc : op54703,ect346,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : D:\MassHunter\GC...methods\mct345.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Wed Jun 05 12:14:44 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	120	0.00	3.70
9	t	Phenol	1.738	1.621	6.7	99	-0.01	3.49
12	t	2-Chlorophenol	1.288	1.254	2.6	104	0.00	3.60
19	t	2-Methylphenol	1.270	1.156	9.0	96	0.00	3.80
21	t	3&4-Methylphenol	1.299	1.165	10.3	97	0.00	3.88
24	I	Naphthalene-d8	1.000	1.000	0.0	115	0.00	4.39
29	t	2-Nitrophenol	0.141	0.154	-9.2	106	0.00	4.17
30	t	2,4-Dimethylphenol	0.344	0.324	5.8	101	0.00	4.17
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	50.000	48.237	3.5	107	-0.01	4.24
		----------	AvgRF	CCRF	% Dev	----------		
33	t	2,4-Dichlorophenol	0.264	0.255	3.4	98	0.00	4.29
34	t	2,6-Dichlorophenol	0.256	0.252	1.6	102	0.00	4.42
41	t	Hydroquinone	0.275	0.343	-24.7	153	0.00	4.63
43	t	4-Chloro-3-methylphenol	0.300	0.291	3.0	98	-0.01	4.70
46	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00	5.58
49	t	2,4,6-Trichlorophenol	0.291	0.315	-8.2	103	0.00	5.00
50	t	2,4,5-Trichlorophenol	0.334	0.327	2.1	97	0.00	5.03
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	96.943	3.1	101	0.00	5.62
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.202	0.190	5.9	95	0.00	5.65

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: ECT346-ICV345
Lab FileID: CT7174.D

			AvgRF	CCRF	% Dev			
64		2,3,4,6-Tetrachlorophenol	0.233	0.246	-5.6	100	0.00	5.83
69	I	Phenanthrene-d10	1.000	1.000	0.0	114	0.00	6.93

			True	Calc.	% Drift			
70	t	4,6-Dinitro-2-methylpheno	50.000	45.025	10.0	96	-0.01	6.06
77	t	Pentachlorophenol	100.000	92.973	7.0	101	0.00	6.73

113		2,3,7,8-TCDD	----------NA----------	

(#) = Out of Range SPCC's out = 0 CCC's out = 0
ct7161.D mct345.m Thu Jun 06 11:56:28 2024

8.8.15

8

Initial Calibration Verification

Job Number: JD91339 **Sample:** ECT346-ICV345
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CT7175.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : D:\MassHunter\GCMS\1\data\ECT346\ct7175.D Vial: 3
Acq On : 05 Jun 2024 03:08 pm Operator: kaleigh
Sample : icv345-50 Inst : GCMS_CT
Misc : op54703,ect346,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : D:\MassHunter\GC...methods\mct345.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Wed Jun 05 12:14:44 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	119	0.00	3.70
3 t	Pyridine	1.612	1.485	7.9	97	-0.02	2.59
4 t	N-Nitrosodimethylamine	0.830	0.862	-3.9	109	-0.02	2.56
10	Aniline	2.417	2.057	14.9	92	0.00	3.54
22 t	n-Nitroso-di-n-propylamin	0.929	0.956	-2.9	106	-0.01	3.89
24 I	Naphthalene-d8	1.000	1.000	0.0	115	0.00	4.38
39 t	4-Chloroaniline	0.406	0.401	1.2	106	0.00	4.42
46 I	Acenaphthene-d10	1.000	1.000	0.0	113	-0.01	5.57
54 t	2-Nitroaniline	0.359	0.355	1.1	100	0.00	5.22
58 t	3-Nitroaniline	0.325	0.317	2.5	98	-0.02	5.52
68 t	4-Nitroaniline	0.333	0.311	6.6	93	-0.02	6.04
69 I	Phenanthrene-d10	1.000	1.000	0.0	115	-0.01	6.92
71 t	n-Nitrosodiphenylamine	0.591	0.575	2.7	102	-0.01	6.12
84 I	Chrysene-d12	1.000	1.000	0.0	116	-0.02	9.93
85	benzidine	0.652	0.751	-15.2	135	-0.01	8.40
		True	Calc.	% Drift			
90 t	3,3'-Dichlorobenzidine	50.000	45.104	9.8	96	-0.02	9.90

8.8.16

8

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: ECT346-ICV345
Lab FileID: CT7175.D

			AvgRF	CCRF	% Dev			
93	I	Perylene-d12	1.000	1.000	0.0	114	-0.02	11.58

(#) = Out of Range SPCC's out = 0 CCC's out = 0

ct7161.D mct345.m Thu Jun 06 11:56:31 2024

8.8.16

8

Continuing Calibration Summary

Job Number: JD91339 **Sample:** ECT375-CC345
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CT7965.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...07-03\ECT375\ct7965.D Vial: 2
Acq On : 03 Jul 2024 10:12 am Operator: karimam
Sample : cc345-50 Inst : GCMS_CT
Misc : op54703,ect375,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...\Method\mct345.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Wed Jul 03 19:12:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	57	0.00	3.60
2	t	1,4-Dioxane	0.620	0.668	-7.7	57	0.00	2.25
3	t	Pyridine	1.612	1.709	-6.0	54	0.00	2.40
4	t	N-Nitrosodimethylamine	0.830	0.917	-10.5	56	0.00	2.37
5	S	2-Fluorophenol	1.290	1.395	-8.1	53	0.00	2.96
6	t	Indene	2.349	2.532	-7.8	55	0.00	3.74
7	t	Cumene	2.901	3.066	-5.7	55	0.00	3.21
8	S	Phenol-d5	1.616	1.747	-8.1	54	0.00	3.40
9	t	Phenol	1.738	1.829	-5.2	53	0.00	3.41
10		Aniline	2.417	2.061	14.7	45#	0.00	3.44
11	t	bis(2-Chloroethyl)ether	1.169	1.538	-31.6#	70	0.00	3.45
12	t	2-Chlorophenol	1.288	1.440	-11.8	57	0.00	3.50
13	t	Decane	1.414	1.536	-8.6	58	0.00	3.49
14	t	1,3-Dichlorobenzene	1.495	1.590	-6.4	55	0.00	3.58
15	t	1,4-Dichlorobenzene	1.509	1.638	-8.5	57	0.00	3.62
16	t	Benzyl alcohol	0.895	1.008	-12.6	55	0.00	3.67
17	t	1,2-Dichlorobenzene	1.426	1.566	-9.8	57	0.00	3.70
18	t	Acetophenone	2.024	2.172	-7.3	56	0.00	3.81
19	t	2-Methylphenol	1.270	1.401	-10.3	56	0.00	3.72
20	t	2,2'-oxybis(1-Chloropropa	0.446	0.461	-3.4	53	0.00	3.72
21	t	3&4-Methylphenol	1.299	1.361	-4.8	54	0.00	3.80
22	t	n-Nitroso-di-n-propylamin	0.929	1.036	-11.5	56	0.00	3.80
23	t	Hexachloroethane	0.444	0.532	-19.8	61	0.00	3.87
24	I	Naphthalene-d8	1.000	1.000	0.0	56	0.00	4.29
25	S	Nitrobenzene-d5	0.411	0.481	-17.0	58	0.00	3.89
26	t	Nitrobenzene	0.385	0.438	-13.8	56	0.00	3.90
27	t	Quinoline	0.678	0.748	-10.3	55	0.00	4.51
28	t	Isophorone	0.700	0.791	-13.0	57	0.00	4.03
29	t	2-Nitrophenol	0.141	0.193	-36.9#	65	0.00	4.08
30	t	2,4-Dimethylphenol	0.344	0.391	-13.7	59	0.00	4.08
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	50.000	52.811	-5.6	58	0.00	4.16
		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.438	0.477	-8.9	56	0.00	4.13
33	t	2,4-Dichlorophenol	0.264	0.310	-17.4	58	0.00	4.21
34	t	2,6-Dichlorophenol	0.256	0.291	-13.7	58	0.00	4.33
35		1,3,5-Trichlorobenzene	0.287	0.317	-10.5	61	0.00	4.08
36	t	1,2,4-Trichlorobenzene	0.287	0.320	-11.5	57	0.00	4.25
37		1,2,3-Trichlorobenzene	0.281	0.317	-12.8	59	0.00	4.39

Continuing Calibration Summary

Job Number: JD91339 **Sample:** ECT375-CC345
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CT7965.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

38	t	Naphthalene	1.008	1.069	-6.1	55	0.00	4.30
39	t	4-Chloroaniline	0.406	0.439	-8.1	57	0.00	4.33
40	t	2,3-Dichloroaniline	0.316	0.356	-12.7	58	0.00	4.90
41	t	Hydroquinone	0.275	0.249	9.5	54	0.00	4.52
42	t	Hexachlorobutadiene	0.147	0.172	-17.0	62	0.00	4.36
43	t	4-Chloro-3-methylphenol	0.300	0.353	-17.7	58	0.00	4.60
44	t	2-Methylnaphthalene	0.590	0.647	-9.7	57	0.00	4.72
45	t	1-Methylnaphthalene	0.565	0.622	-10.1	57	0.00	4.78
46	I	Acenaphthene-d10	1.000	1.000	0.0	58	0.00	5.46
47	t	Hexachlorocyclopentadiene	0.226	0.144	36.3#	36#	0.00	4.81
48		1,2,4,5-tetrachlorobenzen	0.456	0.514	-12.7	61	0.00	4.82
49	t	2,4,6-Trichlorophenol	0.291	0.350	-20.3#	59	0.00	4.90
50	t	2,4,5-Trichlorophenol	0.334	0.391	-17.1	60	0.00	4.93
51	S	2-Fluorobiphenyl	1.248	1.338	-7.2	58	0.00	4.95
52	t	2-Chloronaphthalene	1.081	1.161	-7.4	57	0.00	5.04
53	t	Biphenyl	1.423	1.506	-5.8	57	0.00	5.02
54	t	2-Nitroaniline	0.359	0.426	-18.7	62	0.00	5.11
55	t	Dimethylphthalate	1.239	1.382	-11.5	58	0.00	5.23
56	t	Acenaphthylene	1.522	1.741	-14.4	58	0.00	5.35
			True	Calc.	% Drift			
57	t	2,6-Dinitrotoluene	50.000	55.515	-11.0	60	0.00	5.28
			AvgRF	CCRF	% Dev			
58	t	3-Nitroaniline	0.325	0.352	-8.3	56	0.00	5.42
59	t	Acenaphthene	1.151	1.244	-8.1	58	0.00	5.48
			True	Calc.	% Drift			
60	t	2,4-Dinitrophenol	100.000	107.855	-7.9	59	0.00	5.51
			AvgRF	CCRF	% Dev			
61	t	4-Nitrophenol	0.202	0.202	0.0	52	0.00	5.55
62	t	Dibenzofuran	1.536	1.660	-8.1	58	0.00	5.62
			True	Calc.	% Drift			
63	t	2,4-Dinitrotoluene	50.000	54.767	-9.5	60	0.00	5.60
			AvgRF	CCRF	% Dev			
64		2,3,4,6-Tetrachlorophenol	0.233	0.310	-33.0#	65	0.00	5.72
65	t	Diethylphthalate	1.243	1.448	-16.5	60	0.00	5.78
66	t	Fluorene	1.217	1.358	-11.6	59	0.00	5.90
67	t	4-Chlorophenyl-phenylethe	0.521	0.602	-15.5	61	0.00	5.89
68	t	4-Nitroaniline	0.333	0.364	-9.3	56	0.00	5.93
69	I	Phenanthrene-d10	1.000	1.000	0.0	59	0.00	6.79
			True	Calc.	% Drift			
70	t	4,6-Dinitro-2-methylpheno	50.000	60.382	-20.8#	70	0.00	5.96
			AvgRF	CCRF	% Dev			
71	t	n-Nitrosodiphenylamine	0.591	0.663	-12.2	60	0.00	6.00
72	t	1,2-Diphenylhydrazine	0.796	0.909	-14.2	59	0.00	6.03
73		pentachloronitrobenzene	0.028	0.038#	-35.7#	69	0.00	6.62
74	S	2,4,6-Tribromophenol	0.076	0.102	-34.2#	71	0.00	6.12
75	t	4-Bromophenyl-phenylether	0.161	0.193	-19.9	64	0.00	6.34
76	t	Hexachlorobenzene	0.179	0.215	-20.1#	65	0.00	6.41
			True	Calc.	% Drift			
77	t	Pentachlorophenol	100.000	109.364	-9.4	62	0.00	6.61

Continuing Calibration Summary

Job Number: JD91339 **Sample:** ECT375-CC345
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CT7965.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

			AvgRF	CCRF	% Dev			
78	t	Phenanthrene	1.029	1.112	-8.1	59	0.00	6.82
79	t	Anthracene	0.995	1.151	-15.7	61	0.00	6.87
80	t	Carbazole	0.959	1.090	-13.7	59	0.00	7.03
81	t	Di-n-butylphthalate	1.124	1.417	-26.1#	63	0.00	7.40
82	t	Fluoranthene	0.984	1.189	-20.8#	61	0.00	8.11
83	t	Octadecane	0.505	0.607	-20.2#	60	0.00	6.65
84	I	Chrysene-d12	1.000	1.000	0.0	62	0.00	9.80
85		benzidine	0.652	0.509	21.9#	49#	0.00	8.26
86	t	Pyrene	1.420	1.563	-10.1	61	0.00	8.37
87	S	Terphenyl-d14	0.991	1.155	-16.5	63	0.00	8.55

			True	Calc.	% Drift			
88	t	Butylbenzylphthalate	50.000	56.820	-13.6	66	0.00	9.14

			AvgRF	CCRF	% Dev			
89	t	Benzo[a]anthracene	1.246	1.416	-13.6	62	0.00	9.79

			True	Calc.	% Drift			
90	t	3,3'-Dichlorobenzidine	50.000	56.269	-12.5	65	0.00	9.77

			AvgRF	CCRF	% Dev			
91	t	Chrysene	1.221	1.328	-8.8	61	0.00	9.84

			True	Calc.	% Drift			
92	t	bis(2-Ethylhexyl)phthalat	50.000	54.520	-9.0	63	0.00	9.84

			AvgRF	CCRF	% Dev			
93	I	Perylene-d12	1.000	1.000	0.0	66	0.00	11.44

			True	Calc.	% Drift			
94	t	Di-n-octylphthalate	50.000	55.234	-10.5	68	0.00	10.60

			AvgRF	CCRF	% Dev			
95	t	Benzo[b]fluoranthene	1.136	1.369	-20.5#	70	0.00	11.02
96	t	Benzo[k]fluoranthene	1.120	1.142	-2.0	59	0.00	11.05
97	t	Benzo[a]pyrene	0.926	1.136	-22.7#	66	0.00	11.38
98	t	Indeno[1,2,3-cd]pyrene	1.189	1.492	-25.5#	68	0.00	12.80
99	t	Dibenz(a,h)acridine	0.831	1.014	-22.0#	70	0.00	12.47
100	t	Dibenz[a,h]anthracene	0.958	1.180	-23.2#	67	0.00	12.82
101	t	7,12-Dimethylbenz(a)anthr	0.472	0.546	-15.7	66	0.00	11.01
102	t	Benzo[g,h,i]perylene	0.917	1.109	-20.9#	68	0.00	13.19

(#) = Out of Range SPCC's out = 0 CCC's out = 0
ct7965.D mct345.m Wed Jul 03 19:16:43 2024

8.8.17

Continuing Calibration Summary

Job Number: JD91339 **Sample:** ECT375-CC345
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CT7967.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...07-03\ECT375\ct7967.D Vial: 3
Acq On : 03 Jul 2024 10:31 am Operator: karimam
Sample : cc345-50 Inst : GCMS_CT
Misc : op54703,ect375,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...\Method\mct345.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Wed Jul 03 19:12:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	59	0.00	3.60
104	Benzaldehyde	1.220	1.288	-5.6	56	-0.02	3.39
105	Phenanthrene-d10a	1.000	1.000	0.0	59	0.00	6.79
106	Atrazine	0.079	0.108	-36.7#	63	0.00	6.49
107 I	Naphthalene-d8a	1.000	1.000	0.0	59	0.00	4.29
108 T	Caprolactam	0.159	0.194	-22.0#	58	0.00	4.54
109	Phenanthrene-d10b	1.000	1.000	0.0	59	0.00	6.79
110 s	1-chlorooctadecane	0.350	0.444	-26.9#	61	0.01	7.97
111 s	o-terphenyl	0.461	0.532	-15.4	60	0.00	7.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0
ct7965.D mct345.m Wed Jul 03 19:16:45 2024

8.8.18

8

Continuing Calibration Summary

Job Number: JD91339 **Sample:** ECT375-CC345
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CT7969.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...07-03\ECT375\ct7969.D Vial: 4
Acq On : 03 Jul 2024 11:19 am Operator: karimam
Sample : cc345-5 Inst : GCMS_CT
Misc : op54703,ect375,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...\Method\mct345.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
Last Update : Wed Jul 03 19:12:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
46 I	Acenaphthene-d10	1.000	1.000	0.0	85	0.00	5.46
47 t	Hexachlorocyclopentadiene	0.226	0.073	67.7	28#	0.00	4.81
84 I	Chrysene-d12	1.000	1.000	0.0	92	0.00	9.80
85	benzidine	0.652	0.539	17.3	84	0.00	8.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
ct7164a.D mct345.m Wed Jul 03 19:22:53 2024

8.8.19

8

Initial Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EP7505-ICC7505
Lab FileID: P160512.D

Response Factor Report GCMSP

Method : C:\msdchem\1\METHODS\MP7505ap9.M (RTE Integrator)
Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Wed Jun 26 14:09:03 2024
Response via : Initial Calibration

Calibration Files
2 =p160514.D 5 =p160515.D 25 =p160517.D 80 =p160518.D
100 =p160519.D 50 =p160512.D 10 =p160516.D 1 =p160513.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD									
2) 1,4-Dioxane	0.436	0.477	0.499	0.551	0.577	0.516	0.460	0.448	0.495	10.11
3) Pyridine	1.052	1.188	1.358	1.473	1.505	1.382	1.235	1.077	1.284	13.41
4) N-Nitrosodim	0.390	0.478	0.518	0.591	0.606	0.537	0.441	0.542	0.513	14.33
5) 2-Fluorophen	0.969	1.041	1.233	1.352	1.404	1.309	1.052	0.999	1.170	14.86
6) Indene	1.844	1.986	2.129	2.127	2.141	2.192	1.975	1.889	2.035	6.34
7) Cumene	2.182	2.380	2.581	2.738	2.764	2.681	2.292	2.192	2.476	9.82
8) Phenol-d5	1.190	1.273	1.431	1.537	1.578	1.548	1.268	1.093	1.365	13.44
9) Phenol	1.254	1.373	1.540	1.596	1.635	1.643	1.370	1.167	1.447	12.58
10) Aniline	1.581	1.705	1.856	1.795	1.779	1.825	1.721	1.530	1.724	6.74
11) bis(2-Chloro	0.941	1.026	1.113	1.170	1.187	1.187	1.014	1.005	1.080	8.88
12) 2-Chlorophen	1.090	1.179	1.273	1.332	1.351	1.367	1.127	1.078	1.225	9.81
13) Decane	1.210	1.281	1.364	1.354	1.333	1.402	1.277	1.281	1.313	4.68
14) 1,3-Dichloro	1.377	1.444	1.555	1.568	1.591	1.604	1.380	1.401	1.490	6.62
15) 1,4-Dichloro	1.339	1.436	1.522	1.553	1.589	1.589	1.394	1.304	1.466	7.72
16) Benzyl alcoh	0.598	0.661	0.759	0.824	0.841	0.826	0.699	0.588	0.725	14.22
17) 1,2-Dichloro	1.314	1.365	1.459	1.476	1.512	1.517	1.296	1.334	1.409	6.49
18) Acetophenone	1.471	1.571	1.639	1.622	1.617	1.661	1.514	1.552	1.581	4.16
19) 2-Methylphen	0.939	0.961	1.068	1.107	1.116	1.129	0.936	0.926	1.023	8.81
20) 2,2'-oxybis(	0.294	0.305	0.316	0.321	0.320	0.329	0.297	0.283	0.308	5.15
21) 3&4-Methylph	0.959	1.022	1.091	1.107	1.117	1.158	1.004	0.940	1.050	7.59
22) n-Nitroso-di	0.656	0.683	0.737	0.779	0.779	0.781	0.693	0.677	0.723	7.18
23) Hexachloroet	0.488	0.535	0.571	0.586	0.600	0.600	0.493	0.469	0.543	9.91
24) I Naphthalene-d8	ISTD									
25) Nitrobenzene	0.228	0.253	0.287	0.309	0.324	0.329	0.257	0.250	0.279	13.54
26) Nitrobenzene	0.238	0.283	0.306	0.323	0.325	0.336	0.272	0.266	0.294	11.71
27) Quinoline	0.512	0.555	0.615	0.657	0.677	0.665	0.568	0.490	0.592	12.14
28) Isophorone	0.480	0.510	0.563	0.590	0.619	0.614	0.508	0.483	0.546	10.56
29) 2-Nitropheno		0.122	0.155	0.170	0.183	0.174	0.126		0.155	16.54
30) 2,4-Dimethyl	0.269	0.295	0.312	0.316	0.324	0.331	0.297	0.259	0.300	8.58
31) Benzoic acid		0.116	0.184	0.236	0.253	0.205	0.148		0.190	27.43
---- Quadratic regression ---- Coefficient = 0.9999										
Response Ratio = -0.00744 + 0.17117 *A + 0.03400 *A^2										
32) bis(2-Chloro	0.311	0.337	0.370	0.377	0.390	0.391	0.344	0.298	0.352	10.11
33) 2,4-Dichloro	0.237	0.267	0.296	0.304	0.315	0.317	0.267	0.235	0.280	11.82
34) 2,6-Dichloro	0.233	0.265	0.288	0.287	0.296	0.298	0.257	0.217	0.268	11.24
35) 1,3,5-Trichl	0.305	0.353	0.358	0.347	0.364	0.375	0.331	0.317	0.344	7.01
36) 1,2,4-Trichl	0.291	0.315	0.338	0.334	0.349	0.354	0.307	0.291	0.322	7.72
37) 1,2,3-Trichl	0.280	0.303	0.319	0.313	0.326	0.336	0.293	0.288	0.307	6.42
38) Naphthalene	0.874	0.924	0.954	0.959	0.988	1.021	0.895	0.807	0.928	7.36
39) 4-Chloroanil	0.307	0.341	0.380	0.376	0.387	0.398	0.344	0.291	0.353	11.05
40) 2,3-Dichloro	0.283	0.298	0.325	0.328	0.347	0.342	0.293	0.269	0.311	9.26
41) Hydroquinone	0.153	0.191	0.229	0.187	0.193	0.199	0.199	0.153	0.188	13.29
42) Hexachlorobu	0.174	0.192	0.202	0.201	0.211	0.210	0.184	0.162	0.192	9.10

8.8.20

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Initial Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EP7505-ICC7505
Lab FileID: P160512.D

43) 4-Chloro-3-m 0.223 0.231 0.257 0.272 0.282 0.277 0.231 0.180 0.244 14.18
44) 2-Methylnaph 0.521 0.573 0.618 0.616 0.635 0.642 0.550 0.504 0.582 9.14
45) 1-Methylnaph 0.544 0.594 0.616 0.607 0.636 0.647 0.564 0.568 0.597 6.10

46) I Acenaphthene-d10 ----------ISTD----------
47) Hexachlorocy 0.331 0.351 0.429 0.340 0.344 0.381 0.363 0.348 0.361 8.76
48) 1,2,4,5-Tetr 0.585 0.615 0.628 0.581 0.589 0.646 0.575 0.583 0.600 4.35
49) 2,4,6-Trichl 0.318 0.372 0.392 0.375 0.388 0.410 0.346 0.299 0.363 10.53
50) 2,4,5-Trichl 0.333 0.371 0.414 0.409 0.412 0.431 0.376 0.318 0.383 10.64
51) 2-Fluorobiph 1.255 1.339 1.398 1.308 1.339 1.430 1.281 1.222 1.321 5.30
52) 2-Chloronaph 1.051 1.125 1.161 1.091 1.119 1.204 1.078 1.053 1.110 4.79
53) Biphenyl 1.307 1.390 1.470 1.389 1.412 1.515 1.351 1.346 1.398 4.88
54) 2-Nitroanili 0.178 0.192 0.256 0.284 0.293 0.287 0.221 0.244 19.46
55) Dimethylphth 1.115 1.195 1.305 1.303 1.352 1.387 1.179 1.075 1.239 9.19
56) Acenaphthyle 1.398 1.532 1.676 1.605 1.639 1.729 1.481 1.466 1.566 7.33
57) 2,6-Dinitrot 0.166 0.173 0.231 0.259 0.276 0.257 0.187 0.157 0.213 22.36
---- Quadratic regression ---- Coefficient = 0.9987
Response Ratio = -0.00251 + 0.21624 *A + 0.02434 *A^2

58) 3-Nitroanili 0.197 0.262 0.292 0.311 0.297 0.222 0.264 17.24
59) Acenaphthene 1.017 1.069 1.145 1.112 1.142 1.209 1.041 1.065 1.100 5.80
60) 2,4-Dinitrop 0.040 0.061 0.106 0.146 0.164 0.136 0.071 0.103 45.73
---- Quadratic regression ---- Coefficient = 0.9983
Response Ratio = -0.00763 + 0.09558 *A + 0.01389 *A^2

61) 4-Nitropheno 0.089 0.119 0.142 0.151 0.132 0.092 0.121 21.50
---- Quadratic regression ---- Coefficient = 0.9996
Response Ratio = -0.00451 + 0.11551 *A + 0.01478 *A^2

62) Dibenzofuran 1.444 1.570 1.655 1.590 1.624 1.715 1.511 1.443 1.569 6.25
63) 2,4-Dinitrot 0.173 0.232 0.314 0.353 0.359 0.252 0.197 0.269 27.69
---- Quadratic regression ---- Coefficient = 0.9966
Response Ratio = -0.00477 + 0.29976 *A + 0.03211 *A^2

64) 2,3,4,6-Tetr 0.277 0.288 0.344 0.349 0.362 0.353 0.299 0.245 0.315 13.74
65) Diethylphtha 0.990 1.088 1.228 1.250 1.288 1.302 1.101 0.950 1.150 11.85
66) Fluorene 1.108 1.183 1.307 1.255 1.271 1.352 1.159 1.111 1.218 7.48
67) 4-Chlorophen 0.544 0.604 0.644 0.599 0.615 0.647 0.571 0.524 0.593 7.48
68) 4-Nitroanili 0.185 0.258 0.266 0.292 0.279 0.217 0.250 16.18

69) I Phenanthrene-d10 ----------ISTD----------
70) 4,6-Dinitro- 0.043 0.054 0.095 0.111 0.120 0.106 0.068 0.030 0.078 43.61
---- Quadratic regression ---- Coefficient = 0.9982
Response Ratio = -0.00202 + 0.08508 *A + 0.01420 *A^2

71) n-Nitrosodip 0.515 0.554 0.598 0.570 0.576 0.628 0.549 0.495 0.561 7.61
72) 1,2-Diphenyl 0.529 0.591 0.631 0.606 0.611 0.668 0.571 0.524 0.591 8.28
73) 2,4,6-Tribro 0.077 0.091 0.101 0.100 0.103 0.105 0.086 0.075 0.092 12.76
74) 4-Bromopheny 0.172 0.195 0.216 0.204 0.211 0.218 0.186 0.170 0.197 9.55
75) Hexachlorobe 0.208 0.222 0.233 0.219 0.227 0.238 0.208 0.208 0.220 5.41
76) Pentachlorop 0.104 0.118 0.151 0.155 0.158 0.163 0.127 0.139 16.48
77) Phenanthrene 0.917 0.975 1.028 0.983 0.999 1.088 0.927 0.898 0.977 6.47
78) Anthracene 0.872 0.956 1.032 0.991 1.014 1.087 0.940 0.857 0.969 8.11
79) Carbazole 0.791 0.859 0.966 0.963 0.990 1.031 0.853 0.763 0.902 10.94
80) Di-n-butylph 0.860 0.939 1.132 1.189 1.218 1.247 0.978 0.865 1.054 15.27
81) Fluoranthene 0.951 1.054 1.173 1.197 1.229 1.258 1.029 0.935 1.103 11.50
82) Octadecane 0.354 0.399 0.464 0.451 0.457 0.495 0.407 0.366 0.424 11.80

83) I Chrysene-d12 ----------ISTD----------
84) Benzidine 0.340 0.409 0.562 0.460 0.469 0.405 0.425 0.439 15.69

8.8.20

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Initial Calibration Summary

Job Number: JD91339 **Sample:** EP7505-ICC7505
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** P160512.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

85)	Pyrene	1.227	1.355	1.392	1.322	1.351	1.475	1.294	1.260	1.335	5.85
86)	Terphenyl-d1		1.340	1.103	1.007	1.032	1.100	1.227		1.135	11.16
87)	Butylbenzylp	0.366	0.406	0.514	0.570	0.602	0.587	0.440		0.498	18.96
88)	Benzo[a]anth	1.120	1.175	1.274	1.297	1.338	1.367	1.123	1.220	1.239	7.64
89)	3,3'-Dichlor	0.327	0.373	0.418	0.451	0.478	0.482	0.368	0.321	0.402	16.00
90)	Chrysene	1.058	1.137	1.184	1.165	1.190	1.250	1.101	1.108	1.149	5.27
91)	bis(2-Ethylh	0.695	0.669	0.769	0.843	0.875	0.900	0.686	0.946	0.798	13.47
92)	I Perylene-d12	----------ISTD----------									
93)	Di-n-octylph	0.874	1.013	1.260	1.307	1.348	1.388	1.051		1.177	16.71
94)	Benzo[b]fluo	0.992	1.030	1.183	1.144	1.193	1.233	1.034	0.923	1.091	10.21
95)	Benzo[k]fluo	0.998	1.101	1.179	1.032	1.055	1.161	1.084	0.985	1.074	6.59
96)	Benzo[a]pyre	0.864	0.926	1.056	1.017	1.059	1.092	0.913	0.815	0.968	10.54
97)	Indeno[1,2,3	0.855	0.948	1.093	1.066	1.106	1.148	0.929	0.806	0.994	12.74
98)	Dibenz(a,h)a	0.697	0.779	0.910	0.917	0.956	0.974	0.767	0.688	0.836	13.88
99)	Dibenz[a,h]a	0.859	0.942	1.061	0.997	1.038	1.090	0.895	0.818	0.963	10.35
100)	7,12-Dimethy	0.375	0.417	0.474	0.444	0.461	0.490	0.405	0.390	0.432	9.64
101)	Benzo[g,h,i]	0.850	0.925	1.057	1.019	1.047	1.101	0.907	0.807	0.964	11.09
158)	I 1,4-Dichlorobenzene-d	----------ISTD----------									
159)	Benzaldehyde	0.945	1.048	0.983	1.038	1.043	1.176	1.085	0.901	1.027	8.28
160)	I Phenanthrene-d10b	----------ISTD----------									
161)	Atrazine	0.174	0.184	0.183	0.206	0.202	0.224	0.200	0.164	0.192	10.08
162)	Naphthalene-d8b	----------ISTD----------									
163)	Caprolactam	0.109	0.118	0.124	0.124	0.130	0.139	0.128	0.096	0.121	10.89

(#) = Out of Range ### Number of calibration levels exceeded format ###

MP7505ap9.M Wed Jun 26 14:38:14 2024

8.8.20

8

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EP7505-ICV7505
Lab FileID: P160528.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\EP7505\p160528.D Vial: 18
Acq On : 14 Jun 2024 6:49 pm Operator: anthonyo
Sample : icv7505-50 Inst : GCMSP
Misc : op55260,ep7505,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\MP7505ap9.M (RTE Integrator)
Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Wed Jun 26 14:09:03 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00	4.64
2	t	1,4-Dioxane	0.495	0.502	-1.4	109	0.00	2.55
6	t	Indene	2.035	2.042	-0.3	105	0.00	4.82
7	t	Cumene	2.476	2.535	-2.4	106	0.00	4.08
11	t	bis(2-Chloroethyl)ether	1.080	1.128	-4.4	107	0.00	4.45
13	t	Decane	1.313	1.389	-5.8	111	0.00	4.53
14	t	1,3-Dichlorobenzene	1.490	1.465	1.7	103	0.00	4.60
15	t	1,4-Dichlorobenzene	1.466	1.430	2.5	101	0.00	4.66
16	t	Benzyl alcohol	0.725	0.730	-0.7	99	0.00	4.74
17	t	1,2-Dichlorobenzene	1.409	1.347	4.4	100	0.00	4.76
18	t	Acetophenone	1.581	1.598	-1.1	108	0.00	4.92
20	t	2,2'-oxybis(1-Chloropropa	0.308	0.302	1.9	103	0.00	4.83
23	t	Hexachloroethane	0.543	0.530	2.4	99	0.00	5.00
24	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00	5.54
26	t	Nitrobenzene	0.294	0.285	3.1	97	0.00	5.05
27	t	Quinoline	0.592	0.583	1.5	100	-0.02	5.79
28	t	Isophorone	0.546	0.551	-0.9	102	-0.01	5.21
32	t	bis(2-Chloroethoxy)methan	0.352	0.361	-2.6	105	0.00	5.37
35		1,3,5-Trichlorobenzene	0.344	0.329	4.4	100	0.00	5.28
36	t	1,2,4-Trichlorobenzene	0.322	0.309	4.0	99	0.00	5.50
37		1,2,3-Trichlorobenzene	0.307	0.294	4.2	99	0.00	5.66
38	t	Naphthalene	0.928	0.913	1.6	102	0.00	5.56
40	t	2,3-Dichloroaniline	0.311	0.295	5.1	98	0.00	6.27
42	t	Hexachlorobutadiene	0.192	0.185	3.6	100	0.00	5.64
44	t	2-Methylnaphthalene	0.582	0.562	3.4	100	0.00	6.06
45	t	1-Methylnaphthalene	0.597	0.580	2.8	102	0.00	6.13
46	I	Acenaphthene-d10	1.000	1.000	0.0	111	0.00	6.96
47	t	Hexachlorocyclopentadiene	0.361	0.394	-9.1	115	0.00	6.18
48		1,2,4,5-Tetrachlorobenzen	0.600	0.565	5.8	97	0.00	6.18
52	t	2-Chloronaphthalene	1.110	1.076	3.1	99	0.00	6.45
53	t	Biphenyl	1.398	1.351	3.4	99	0.00	6.43
55	t	Dimethylphthalate	1.239	1.228	0.9	98	0.00	6.70
56	t	Acenaphthylene	1.566	1.578	-0.8	101	0.00	6.82
		----------	True	Calc.	% Drift	----------		
57	t	2,6-Dinitrotoluene	50.000	43.893	12.2	91	0.00	6.76
		----------	AvgRF	CCRF	% Dev	----------		
59	t	Acenaphthene	1.100	1.064	3.3	98	0.00	6.99
62	t	Dibenzofuran	1.569	1.523	2.9	99	0.00	7.17

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Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EP7505-ICV7505
Lab FileID: P160528.D

			True	Calc.	% Drift			
63	t	2,4-Dinitrotoluene	50.000	40.666	18.7	82	0.00	7.16
			AvgRF	CCRF	% Dev			
65	t	Diethylphthalate	1.150	1.174	-2.1	100	0.00	7.43
66	t	Fluorene	1.218	1.195	1.9	98	0.00	7.56
67	t	4-Chlorophenyl-phenylethe	0.593	0.580	2.2	100	0.00	7.56
69	I	Phenanthrene-d10	1.000	1.000	0.0	109	0.00	8.84
72	t	1,2-Diphenylhydrazine	0.591	0.637	-7.8	104	0.00	7.75
74	t	4-Bromophenyl-phenylether	0.197	0.200	-1.5	100	0.00	8.19
75	t	Hexachlorobenzene	0.220	0.211	4.1	97	0.00	8.26
77	t	Phenanthrene	0.977	0.965	1.2	97	0.00	8.88
78	t	Anthracene	0.969	0.985	-1.7	99	0.00	8.96
79	t	Carbazole	0.902	0.921	-2.1	98	0.00	9.23
80	t	Di-n-butylphthalate	1.054	1.129	-7.1	99	0.00	9.95
81	t	Fluoranthene	1.103	1.131	-2.5	98	0.00	11.01
82	t	Octadecane	0.424	0.472	-11.3	105	0.00	8.75
83	I	Chrysene-d12	1.000	1.000	0.0	108	0.00	14.11
85	t	Pyrene	1.335	1.341	-0.4	98	0.00	11.46
87	t	Butylbenzylphthalate	0.498	0.532	-6.8	97	0.00	13.10
88	t	Benzo[a]anthracene	1.239	1.219	1.6	96	0.00	14.09
90	t	Chrysene	1.149	1.163	-1.2	100	0.00	14.17
91	t	bis(2-Ethylhexyl)phthalat	0.798	0.794	0.5	95	0.00	14.52
92	I	Perylene-d12	1.000	1.000	0.0	105	0.00	17.16
93	t	Di-n-octylphthalate	1.177	1.269	-7.8	96	0.00	15.97
94	t	Benzo[b]fluoranthene	1.091	1.127	-3.3	96	0.00	16.40
95	t	Benzo[k]fluoranthene	1.074	1.100	-2.4	99	0.00	16.47
96	t	Benzo[a]pyrene	0.968	1.011	-4.4	97	0.00	17.04
97	t	Indeno[1,2,3-cd]pyrene	0.994	1.060	-6.6	97	0.00	19.11
98	t	Dibenz(a,h)acridine	0.836	0.905	-8.3	97	0.00	18.75
99	t	Dibenz[a,h]anthracene	0.963	1.010	-4.9	97	0.00	19.18
100	t	7,12-Dimethylbenz(a)anthr	0.432	0.415	3.9	89	0.00	16.43
101	t	Benzo[g,h,i]perylene	0.964	1.030	-6.8	98	0.00	19.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0
p160535a.D MP7505ap9.M Wed Jun 26 14:37:17 2024

8.8.21

8

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EP7505-ICV7505
Lab FileID: P160529.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\EP7505\p160529.D Vial: 19
Acq On : 14 Jun 2024 7:14 pm Operator: anthonyo
Sample : icv7505-50 Inst : GCMSP
Misc : op55260,ep7505,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\MP7505ap9.M (RTE Integrator)
Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Tue Jun 25 20:17:06 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	130	0.00	4.64
9	t	Phenol	1.447	1.394	3.7	111	0.00	4.38
12	t	2-Chlorophenol	1.225	1.153	5.9	110	0.00	4.49
19	t	2-Methylphenol	1.023	0.952	6.9	110	0.00	4.80
21	t	3&4-Methylphenol	1.050	0.987	6.0	111	0.00	4.92
24	I	Naphthalene-d8	1.000	1.000	0.0	129	0.00	5.54
29	t	2-Nitrophenol	0.155	0.142	8.4	105	0.00	5.27
30	t	2,4-Dimethylphenol	0.300	0.288	4.0	112	0.00	5.29
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	50.000	41.481	17.0	104	0.00	5.37
		----------	AvgRF	CCRF	% Dev	----------		
33	t	2,4-Dichlorophenol	0.280	0.266	5.0	108	0.00	5.44
34		2,6-Dichlorophenol	0.268	0.254	5.2	110	0.00	5.60
41	t	Hydroquinone	0.188	0.247	-31.4#	160	0.04	5.86
43	t	4-Chloro-3-methylphenol	0.244	0.232	4.9	108	0.00	5.93
46	I	Acenaphthene-d10	1.000	1.000	0.0	127	0.00	6.96
49	t	2,4,6-Trichlorophenol	0.363	0.358	1.4	111	0.00	6.27
50	t	2,4,5-Trichlorophenol	0.383	0.371	3.1	109	0.00	6.30
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	84.287	15.7	95	-0.01	7.02
61	t	4-Nitrophenol	50.000	42.507	15.0	103	0.00	7.07
		----------	AvgRF	CCRF	% Dev	----------		
64		2,3,4,6-Tetrachlorophenol	0.315	0.302	4.1	108	0.00	7.29
69	I	Phenanthrene-d10	1.000	1.000	0.0	122	0.00	8.84
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	43.584	12.8	99	-0.01	7.61
		----------	AvgRF	CCRF	% Dev	----------		
76	t	Pentachlorophenol	0.139	0.137	1.4	103	-0.01	8.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EP7505-ICV7505
Lab FileID: P160529.D

p160535a.D MP7505ap9.M Tue Jun 25 20:21:11 2024

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EP7505-ICV7505
Lab FileID: P160530.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\EP7505\p160530.D Vial: 20
Acq On : 14 Jun 2024 7:39 pm Operator: anthonyo
Sample : icv7505-50 Inst : GCMSP
Misc : op55260,ep7505,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\MP7505ap9.M (RTE Integrator)
Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Mon Jun 24 19:24:46 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
158	I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	102	0.00	4.64
159		Benzaldehyde	1.027	1.097	-6.8	95	0.00	4.33
160	I	Phenanthrene-d10b	1.000	1.000	0.0	103	0.00	8.83
161		Atrazine	0.192	0.201	-4.7	92	0.00	8.45
162		Naphthalene-d8b	1.000	1.000	0.0	101	0.00	5.54
163		Caprolactam	0.121	0.140	-15.7	102	0.00	5.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
p160535a.D MP7505ap9.M Mon Jun 24 22:43:15 2024

8.8.23

8

Initial Calibration Summary

Job Number: JD91339 **Sample:** EP7506-ICC7506
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** P160535.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Response Factor Report GCMSP

Method : C:\msdchem\1\METHODS\MP7505ap9.M (RTE Integrator)
Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Thu Jun 27 13:34:45 2024
Response via : Initial Calibration

Calibration Files
2 =p160537.D 5 =p160538.D 25 =p160540.D 80 =p160541.D
100 =p160542.D 50 =p160535.D 10 =p160539.D 1 =p160536.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
102) I 1,4-Dichlorobenzene-d	ISTD									
103) 2-Picoline	1.321	1.292	1.442	1.336	1.327	1.387	1.306	1.382	1.349	3.71
104) Pentachloroe	0.549	0.540	0.591	0.569	0.580	0.567	0.535	0.584	0.564	3.69
105) Methyl metha	0.410	0.477	0.579	0.534	0.549	0.543	0.493	0.515	0.512	10.22
106) N-Nitrosodie	0.440	0.448	0.539	0.509	0.509	0.528	0.485	0.503	0.495	7.18
107) N-Nitrosomet	0.497	0.537	0.603	0.528	0.496	0.599	0.519	0.635	0.552	9.59
108) Ethyl methan	0.692	0.704	0.861	0.797	0.797	0.827	0.731	0.771	0.773	7.71
109) N-Nitrosopyr	0.455	0.488	0.562	0.481	0.460	0.548	0.536	0.502	0.504	7.99
110) N-Nitrosomor	0.615	0.567	0.664	0.531	0.484	0.612	0.573	0.656	0.588	10.47
111) o-Toluidine	1.965	1.906	1.939	1.518	1.452	1.685	1.905	2.059	1.804	12.38
112) I Naphthalene-d8A	ISTD									
113) O,O,O-Trieth	0.154	0.160	0.171	0.173	0.182	0.176	0.165	0.160	0.168	5.58
114) N-Nitrosopip	0.165	0.171	0.206	0.180	0.170	0.208	0.174	0.196	0.184	9.23
115) A,A-Dimethyl	0.543	0.528	0.711	0.668	0.639	0.704	0.577	0.583	0.619	11.48
116) Hexachloropr	0.201	0.208	0.220	0.229	0.241	0.231	0.213	0.204	0.218	6.51
117) N-Nitrosodi-	0.175	0.168	0.196	0.189	0.189	0.204	0.173	0.188	0.185	6.62
118) p-Phenylened		0.114	0.094	0.095	0.098	0.069	0.108		0.096	16.09
119) Safrole	0.219	0.244	0.266	0.264	0.275	0.271	0.251	0.234	0.253	7.79
120) Isosafrole	0.190	0.189	0.206	0.205	0.215	0.219	0.201	0.212	0.205	5.35
121) Acenaphthene-d10A	ISTD									
122) Thionazin	0.133	0.144	0.152	0.147	0.146	0.154	0.146	0.156	0.147	4.94
123) Tetraethyl d	0.113	0.134	0.135	0.148	0.157	0.146	0.141	0.139	0.139	9.29
124) Phorate		0.117	0.179	0.200	0.199	0.210	0.134		0.173	22.39
---- Quadratic regression ---- Coefficient = 0.9979										
Response Ratio = -0.01476 + 0.21389 *A + -0.00281 *A^2										
125) Phenacetin	0.409	0.436	0.529	0.500	0.492	0.550	0.482	0.447	0.481	9.92
126) 1,4-Naphthoq	0.285	0.317	0.360	0.334	0.324	0.376	0.335	0.341	0.334	8.20
127) m-Dinitroben		0.107	0.139	0.160	0.165	0.159	0.120		0.142	16.87
128) Pentachlorob	0.514	0.509	0.506	0.519	0.541	0.515	0.522	0.597	0.528	5.69
129) 2-Naphthylam	0.975	0.909	0.942	0.899	0.911	0.969	0.885	1.045	0.942	5.62
130) 1-Naphthylam	0.936	0.930	0.954	0.874	0.878	0.944	0.947	1.081	0.943	6.75
131) 5-Nitro-o-to		0.222	0.295	0.310	0.309	0.326	0.259		0.287	13.71
132) I Phenanthrene-d10A	ISTD									
133) Disulfoton	0.226	0.251	0.311	0.285	0.271	0.298	0.258	0.245	0.268	10.64
134) Dinoseb		0.080	0.127	0.160	0.169	0.152	0.100		0.131	27.02
---- Quadratic regression ---- Coefficient = 0.9995										
Response Ratio = -0.00794 + 0.13454 *A + 0.01517 *A^2										
135) Dimethoate	0.154	0.157	0.227	0.199	0.187	0.216	0.184	0.159	0.186	14.93
136) 4-Aminobiphe	0.614	0.580	0.665	0.682	0.656	0.714	0.609	0.659	0.647	6.72

Initial Calibration Summary

Job Number: JD91339 **Sample:** EP7506-ICC7506
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** P160535.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

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137) Methyl parat       0.104 0.160 0.160 0.154 0.171 0.122       0.145  17.87
138) Parathion          0.083 0.121 0.117 0.112 0.128 0.093       0.109  16.09
139) Diphenylamin 0.507 0.521 0.557 0.519 0.507 0.543 0.530 0.556 0.530   3.80
140) Isodrin      0.110 0.110 0.123 0.121 0.119 0.124 0.115 0.121 0.118   4.67
141) Diallate     0.164 0.171 0.192 0.176 0.167 0.190 0.162 0.205 0.179   8.75
142) Pentachloron 0.027 0.033 0.038 0.038 0.039 0.038 0.036 0.031 0.035# 12.58
143) Pronamide    0.234 0.254 0.317 0.310 0.306 0.322 0.282 0.253 0.285  11.94
144) 4-Nitroquino 0.036 0.044 0.093 0.108       0.111 0.065       0.076  42.64
             ---- Quadratic regression ----  Coefficient =  0.9942
               Response Ratio = -0.01698 + 0.09400 *A + 0.00235 *A^2

145) Methapyrilin 0.290 0.290 0.319 0.164 0.130 0.235 0.308       0.248  29.97
             ---- Quadratic regression ----  Coefficient =  0.9962
               Response Ratio = -0.00434 + 0.36060 *A + -0.09337 *A^2

146) sym-Trinitro 0.022 0.027 0.043 0.050 0.054 0.049 0.032 0.027 0.038# 32.73
             ---- Quadratic regression ----  Coefficient =  0.9980
               Response Ratio = -0.00066 + 0.03898 *A + 0.00611 *A^2


147) I   Chrysene-d12A         ----------------ISTD---------------------
148) Aramite            0.033 0.048 0.054 0.056 0.056 0.035       0.047# 22.92
             ---- Quadratic regression ----  Coefficient =  0.9979
               Response Ratio = -0.00346 + 0.05443 *A + 0.00130 *A^2

149) p-(Dimethyla 0.208 0.225 0.306 0.292 0.283 0.313 0.249 0.216 0.262  16.06
150) Kepone       0.084 0.078 0.071 0.057 0.055 0.060 0.076       0.069  16.32
151) Famphur      0.409 0.435 0.393 0.221 0.205 0.278 0.433 0.433 0.351  28.28
             ---- Quadratic regression ----  Coefficient =  0.9924
               Response Ratio = 0.00736 + 0.41626 *A + -0.01503 *A^2

152) 2-Acetylamin       0.342 0.482 0.495 0.505 0.516 0.378       0.453  16.25
153) Chlorobenzil 0.232 0.255 0.311 0.329 0.342 0.331 0.273 0.242 0.289  15.15

154) I   Perylene-d12A         ----------------ISTD---------------------
155) 4,4-Methylen             0.011 0.017 0.021 0.012 0.008       0.014# 37.65
156) Hexachloroph       0.010 0.062 0.078 0.079 0.070 0.027       0.055  53.03
             ---- Quadratic regression ----  Coefficient =  0.9985
               Response Ratio = -0.04372 + 0.07137 *A + 0.00098 *A^2

157) 3-Methylchol       0.176 0.215 0.231 0.238 0.237 0.189       0.214  12.25


 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MP7505ap9.M        Thu Jun 27 13:43:27 2024
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8.8.24

8

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EP7507-ICV7506
Lab FileID: P160548.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\EP7507\p160548.D Vial: 4
Acq On : 24 Jun 2024 8:55 pm Operator: rocquans
Sample : icv7506-50 Inst : GCMSP
Misc : op55260,ep7507,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\MP7505ap9.M (RTE Integrator)
Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Thu Jun 27 15:31:45 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
112	I	Naphthalene-d8A	1.000	1.000	0.0	104	0.00	5.54
113	M	O,O,O-Triethyl phosphorot	0.168	0.168	0.0	99	0.00	5.34
121		Acenaphthene-d10A	1.000	1.000	0.0	100	0.00	6.96
122	M	Thionazin	0.147	0.136	7.5	88	0.00	7.52
123	M	Tetraethyl dithiopyrophos	0.139	0.139	0.0	95	0.01	7.93
132	I	Phenanthrene-d10A	1.000	1.000	0.0	97	0.00	8.83
133	M	Disulfoton	0.268	0.277	-3.4	90	0.00	8.89
		----------	AvgRF	CCRF	% Dev	----------		
135	M	Dimethoate	0.186	0.201	-8.1	90	0.00	8.34
137	M	Methyl parathion	0.145	0.149	-2.8	84	0.00	9.51
138	M	Parathion	0.109	0.104	4.6	78	0.00	10.25
		----------	AvgRF	CCRF	% Dev	----------		
147	I	Chrysene-d12A	1.000	1.000	0.0	94	0.01	14.11
		----------	True	Calc.	% Drift	----------		
151	M	Famphur	300.000	348.456	-16.2	156	-0.01	12.91

(#) = Out of Range SPCC's out = 0 CCC's out = 0
p160535a.D MP7505ap9.M Fri Jun 28 09:07:05 2024

Initial Calibration Verification

Job Number: JD91339 **Sample:** EP7507-ICV7506
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** P160549.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\EP7507\p160549.D Vial: 5
Acq On : 24 Jun 2024 9:20 pm Operator: rocquans
Sample : icv7506-50 Inst : GCMSP
Misc : op55260,ep7507,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\MP7505ap9.M (RTE Integrator)
Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Thu Jun 27 15:31:45 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102 I	1,4-Dichlorobenzene-d4A	1.000	1.000	0.0	103	0.00	4.64
104	Pentachloroethane	0.564	0.577	-2.3	105	0.00	4.44
105 M	Methyl methanesulfonate	0.512	0.542	-5.9	103	0.00	3.61
108 M	Ethyl methanesulfonate	0.773	0.819	-6.0	102	0.00	4.10
112 I	Naphthalene-d8A	1.000	1.000	0.0	105	0.00	5.54
116 M	Hexachloropropene	0.218	0.222	-1.8	101	0.00	5.62
119 M	Safrole	0.253	0.258	-2.0	100	0.00	5.99
120	Isosafrole	0.205	0.258	-25.9	124	0.00	6.40
121	Acenaphthene-d10A	1.000	1.000	0.0	97	0.00	6.96
	----------	True	Calc.	% Drift	----------		
124 M	Phorate	50.000	47.074	5.9	86	0.00	8.04
	----------	AvgRF	CCRF	% Dev	----------		
125 M	Phenacetin	0.481	0.510	-6.0	90	0.00	8.13
126 M	1,4-Naphthoquinone	0.334	0.433	-29.6	112	0.01	6.61
128 M	Pentachlorobenzene	0.528	0.524	0.8	99	0.01	7.12
132 I	Phenanthrene-d10A	1.000	1.000	0.0	97	0.00	8.84
140 M	Isodrin	0.118	0.126	-6.8	99	0.01	10.71
141 M	Diallate	0.179	0.160	10.6	82	0.00	8.09
142 M	Pentachloronitrobenzene	0.035	0.038	-8.6	96	0.00	8.57
143 M	Pronamide	0.285	0.313	-9.8	95	0.00	8.68
	----------	True	Calc.	% Drift	----------		
144 M	4-Nitroquinoline 1-oxide	200.000	193.748	3.1	64	-0.02	10.23
146 M	sym-Trinitrobenzene	50.000	50.404	-0.8	93	0.00	8.04

8.8.26
8

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EP7507-ICV7506
Lab FileID: P160549.D

			AvgRF	CCRF	% Dev			
147	I	Chrysene-d12A	1.000	1.000	0.0	97	0.00	14.10
			True	Calc.	% Drift			
148		Aramite	50.000	34.739	30.5#	62	0.00	11.97
			AvgRF	CCRF	% Dev			
149	M	p-(Dimethylamine)azobenze			NA			
150		Kepone	0.069	0.078	-11.5	126	0.00	12.91
			True	Calc.	% Drift			
151	M	Famphur			NA			
			AvgRF	CCRF	% Dev			
152	M	2-Acetylaminofluorene			NA			
153	M	Chlorobenzilate	0.289	0.317	-9.7	93	0.01	12.37
154	I	Perylene-d12A	1.000	1.000	0.0	98	0.01	17.15
			AvgRF	CCRF	% Dev			
157		3-Methylcholanthrene	0.214	0.236	-10.3	98	0.01	17.77

(#) = Out of Range SPCC's out = 0 CCC's out = 0
p160535a.D MP7505ap9.M Fri Jun 28 09:07:35 2024

8.8.26

8

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EP7507-ICV7506
Lab FileID: P160550.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\EP7507\p160550.D Vial: 6
Acq On : 24 Jun 2024 9:46 pm Operator: rocquans
Sample : icv7506-50 Inst : GCMSP
Misc : op55260,ep7507,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\MP7505ap9.M (RTE Integrator)
Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Thu Jun 27 15:31:45 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	I	1,4-Dichlorobenzene-d4A	1.000	1.000	0.0	109	0.00	4.64
103	M	2-Picoline	1.349	1.320	2.1	104	0.00	3.31
106	M	N-Nitrosodiethylamine	0.495	0.500	-1.0	103	0.00	3.89
107	M	N-Nitrosomethylethylamine	0.552	0.489	11.4	89	0.00	3.39
109	M	N-Nitrosopyrrolidine	0.504	0.538	-6.7	107	0.00	4.91
110	M	N-Nitrosomorpholine	0.588	0.531	9.7	94	0.00	4.94
111	M	o-Toluidine	1.804	1.785	1.1	115	0.00	4.95
112	I	Naphthalene-d8A	1.000	1.000	0.0	109	0.00	5.54
114	M	N-Nitrosopiperidine	0.184	0.168	8.7	88	0.00	5.15
115	M	A,A-Dimethylphenethylamin	0.619	0.702	-13.4	109	0.00	5.41
117	M	N-Nitrosodi-n-butylamine	0.185	0.187	-1.1	100	0.00	5.83
118		p-Phenylenediamine	0.096	0.313	-226.0#	493#	0.00	5.85
121		Acenaphthene-d10A	1.000	1.000	0.0	105	0.00	6.96
129	M	2-Naphthylamine	0.942	1.098	-16.6	119	0.00	7.34
130	M	1-Naphthylamine	0.943	1.101	-16.8	123	0.00	7.25
131	M	5-Nitro-o-toluidine	0.287	0.294	-2.4	95	0.00	7.57
132	I	Phenanthrene-d10A	1.000	1.000	0.0	104	0.00	8.83
136	M	4-Aminobiphenyl	0.647	0.739	-14.2	108	0.00	8.57
		----------	AvgRF	CCRF	% Dev	----------		
147	I	Chrysene-d12A	1.000	1.000	0.0	103	0.01	14.11
		----------	AvgRF	CCRF	% Dev	----------		
152	M	2-Acetylaminofluorene	0.453	0.476	-5.1	95	0.00	13.50

8.8.27

8

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EP7507-ICV7506
Lab FileID: P160550.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
p160535a.D MP7505ap9.M Fri Jun 28 09:08:53 2024

8.8.27

8

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: EP7508-ICV7505
Lab FileID: P160552A.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\EP7508\p160552a.D Vial: 2
Acq On : 26 Jun 2024 3:30 pm Operator: rocquans
Sample : icv7505-50 Inst : GCMSP
Misc : op55260,ep7508,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\MP7505ap9.M (RTE Integrator)
Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Wed Jun 26 14:09:03 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	128	0.00	4.64
3	t	Pyridine	1.284	1.146	10.7	106	0.00	2.79
4	t	N-Nitrosodimethylamine	0.513	0.451	12.1	107	0.00	2.76
10	t	Aniline	1.724	1.706	1.0	120	0.00	4.41
22		n-Nitroso-di-n-propylamin	0.723	0.706	2.4	116	0.00	4.92
24	I	Naphthalene-d8	1.000	1.000	0.0	133	0.00	5.54
39	t	4-Chloroaniline	0.353	0.348	1.4	116	0.00	5.60
46	I	Acenaphthene-d10	1.000	1.000	0.0	136	0.00	6.96
54	t	2-Nitroaniline	0.244	0.249	-2.0	118	0.00	6.54
58	t	3-Nitroaniline	0.264	0.272	-3.0	124	0.00	6.93
68	t	4-Nitroaniline	0.250	0.261	-4.4	127	0.00	7.59
69	I	Phenanthrene-d10	1.000	1.000	0.0	144	0.00	8.84
71	t	n-Nitrosodiphenylamine	0.561	0.533	5.0	123	0.00	7.71
83	I	Chrysene-d12	1.000	1.000	0.0	154	0.00	14.12
84	t	Benzidine	0.439	0.543	-23.7	207#	0.00	11.38
89	t	3,3'-Dichlorobenzidine	0.402	0.401	0.2	129	0.00	14.15
92	I	Perylene-d12	1.000	1.000	0.0	143	0.00	17.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
p160535a.D MP7505ap9.M Wed Jun 26 18:22:23 2024

8.8.28

8

Continuing Calibration Summary

Job Number: JD91339 **Sample:** EP7514-CC7505
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** P160653.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...elas\EP7514\p160653.d Vial: 3
Acq On : 2 Jul 2024 11:25 am Operator: karimam
Sample : cc7505-50 Inst : GCMSP
Misc : op55750,ep7514,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : X:\Dayton SVOA G...ETHODS\MP7505 .M (RTE Integrator)
Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Fri Jun 28 15:29:19 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	78	-0.02	4.62
2	t	1,4-Dioxane	0.495	0.506	-2.2	77	-0.05	2.49
3	t	Pyridine	1.284	1.293	-0.7	73	-0.05	2.74
4	t	N-Nitrosodimethylamine	0.513	0.474	7.6	69	-0.05	2.71
5	S	2-Fluorophenol	1.170	1.323	-13.1	79	0.03	3.74
6	t	Indene	2.035	2.328	-14.4	83	-0.02	4.81
7	t	Cumene	2.476	2.677	-8.1	78	-0.02	4.06
8	S	Phenol-d5	1.365	1.600	-17.2	81	0.03	4.40
9	t	Phenol	1.447	1.727	-19.4	82	0.04	4.42
10	t	Aniline	1.724	1.949	-13.1	83	-0.02	4.39
11	t	bis(2-Chloroethyl)ether	1.080	1.293	-19.7	85	-0.02	4.44
12	t	2-Chlorophenol	1.225	1.422	-16.1	81	0.00	4.50
13	t	Decane	1.313	1.220	7.1	68	-0.03	4.50
14	t	1,3-Dichlorobenzene	1.490	1.611	-8.1	78	-0.02	4.58
15	t	1,4-Dichlorobenzene	1.466	1.631	-11.3	80	-0.02	4.63
16	t	Benzyl alcohol	0.725	0.908	-25.2#	86	0.00	4.73
17	t	1,2-Dichlorobenzene	1.409	1.576	-11.9	81	-0.02	4.74
18	t	Acetophenone	1.581	1.932	-22.2#	91	-0.02	4.91
19	t	2-Methylphenol	1.023	1.205	-17.8	83	0.03	4.83
20	t	2,2'-oxybis(1-Chloropropa	0.308	0.366	-18.8	87	-0.02	4.81
21	t	3&4-Methylphenol	1.050	1.267	-20.7#	85	0.02	4.94
22		n-Nitroso-di-n-propylamin	0.723	0.899	-24.3#	90	-0.02	4.91
23	t	Hexachloroethane	0.543	0.600	-10.5	78	-0.02	4.98
24	I	Naphthalene-d8	1.000	1.000	0.0	86	-0.02	5.53
25	S	Nitrobenzene-d5	0.279	0.323	-15.8	84	-0.02	5.01
26	t	Nitrobenzene	0.294	0.329	-11.9	84	-0.02	5.03
27	t	Quinoline	0.592	0.753	-27.2#	97	-0.02	5.79
28	t	Isophorone	0.546	0.633	-15.9	88	-0.02	5.21
29	t	2-Nitrophenol	0.155	0.192	-23.9#	95	-0.02	5.25
30	t	2,4-Dimethylphenol	0.300	0.338	-12.7	87	0.00	5.30
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	50.000	52.773	-5.5	93	0.04	5.41
		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.352	0.391	-11.1	86	-0.02	5.35
33	t	2,4-Dichlorophenol	0.280	0.331	-18.2	89	0.02	5.45
34		2,6-Dichlorophenol	0.268	0.318	-18.7	92	0.00	5.60
35		1,3,5-Trichlorobenzene	0.344	0.364	-5.8	83	-0.02	5.26
36	t	1,2,4-Trichlorobenzene	0.322	0.351	-9.0	85	-0.02	5.48
37		1,2,3-Trichlorobenzene	0.307	0.345	-12.4	88	-0.02	5.64

Continuing Calibration Summary

Job Number: JD91339 **Sample:** EP7514-CC7505
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** P160653.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

38	t	Naphthalene	0.928	1.027	-10.7	86	-0.02	5.54
39	t	4-Chloroaniline	0.353	0.425	-20.4#	91	-0.01	5.59
40	t	2,3-Dichloroaniline	0.311	0.391	-25.7#	98	-0.01	6.27
41	t	Hydroquinone	0.188	0.179	4.8	77	0.07	5.90
42	t	Hexachlorobutadiene	0.192	0.210	-9.4	86	-0.02	5.62
43	t	4-Chloro-3-methylphenol	0.244	0.308	-26.2#	95	0.04	5.97
44	t	2-Methylnaphthalene	0.582	0.686	-17.9	92	-0.02	6.04
45	t	1-Methylnaphthalene	0.597	0.690	-15.6	91	-0.02	6.11
46	I	Acenaphthene-d10	1.000	1.000	0.0	100	-0.02	6.94
47	t	Hexachlorocyclopentadiene	0.361	0.317	12.2	83	-0.02	6.16
48		1,2,4,5-Tetrachlorobenzen	0.600	0.594	1.0	92	-0.02	6.17
49	t	2,4,6-Trichlorophenol	0.363	0.389	-7.2	95	0.00	6.27
50	t	2,4,5-Trichlorophenol	0.383	0.421	-9.9	97	0.04	6.34
51	S	2-Fluorobiphenyl	1.321	1.368	-3.6	95	-0.02	6.33
52	t	2-Chloronaphthalene	1.110	1.129	-1.7	94	-0.02	6.43
53	t	Biphenyl	1.398	1.441	-3.1	95	-0.02	6.41
54	t	2-Nitroaniline	0.244	0.292	-19.7	101	0.00	6.54
55	t	Dimethylphthalate	1.239	1.433	-15.7	103	-0.02	6.69
56	t	Acenaphthylene	1.566	1.709	-9.1	99	-0.02	6.80
		----------	True	Calc.	% Drift		----------	
57	t	2,6-Dinitrotoluene	50.000	58.920	-17.8	114	-0.02	6.74
		----------	AvgRF	CCRF	% Dev		----------	
58	t	3-Nitroaniline	0.264	0.336	-27.3#	113	0.00	6.92
59	t	Acenaphthene	1.100	1.189	-8.1	98	-0.02	6.97
		----------	True	Calc.	% Drift		----------	
60	t	2,4-Dinitrophenol	100.000	125.949	-25.9#	127	-0.01	7.02
61	t	4-Nitrophenol	50.000	56.110	-12.2	113	0.11	7.18
		----------	AvgRF	CCRF	% Dev		----------	
62	t	Dibenzofuran	1.569	1.736	-10.6	101	-0.02	7.15
		----------	True	Calc.	% Drift		----------	
63	t	2,4-Dinitrotoluene	50.000	60.036	-20.1#	115	-0.02	7.14
		----------	AvgRF	CCRF	% Dev		----------	
64		2,3,4,6-Tetrachlorophenol	0.315	0.340	-7.9	96	0.00	7.30
65	t	Diethylphthalate	1.150	1.396	-21.4#	107	-0.02	7.42
66	t	Fluorene	1.218	1.388	-14.0	103	-0.03	7.53
67	t	4-Chlorophenyl-phenylethe	0.593	0.667	-12.5	103	-0.03	7.53
68	t	4-Nitroaniline	0.250	0.335	-34.0#	120	0.00	7.59
69	I	Phenanthrene-d10	1.000	1.000	0.0	110	-0.03	8.81
		----------	True	Calc.	% Drift		----------	
70	t	4,6-Dinitro-2-methylpheno	50.000	59.674	-19.3	130	-0.02	7.60
		----------	AvgRF	CCRF	% Dev		----------	
71	t	n-Nitrosodiphenylamine	0.561	0.598	-6.6	105	-0.02	7.68
72	t	1,2-Diphenylhydrazine	0.591	0.592	-0.2	98	-0.03	7.73
73	S	2,4,6-Tribromophenol	0.092	0.100	-8.7	105	-0.02	7.83
74	t	4-Bromophenyl-phenylether	0.197	0.214	-8.6	108	-0.03	8.17
75	t	Hexachlorobenzene	0.220	0.230	-4.5	106	-0.03	8.23
76	t	Pentachlorophenol	0.139	0.125	10.1	85	0.00	8.55
77	t	Phenanthrene	0.977	1.066	-9.1	108	-0.03	8.85
78	t	Anthracene	0.969	1.086	-12.1	110	-0.03	8.93
79	t	Carbazole	0.902	1.085	-20.3#	116	-0.01	9.22

Continuing Calibration Summary

Job Number: JD91339 **Sample:** EP7514-CC7505
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** P160653.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

80	t	Di-n-butylphthalate	1.054	1.350	-28.1#	119	-0.04	9.92
81	t	Fluoranthene	1.103	1.378	-24.9#	121	-0.03	10.98
82	t	Octadecane	0.424	0.439	-3.5	98	-0.04	8.72
83	I	Chrysene-d12	1.000	1.000	0.0	127	-0.03	14.08
84	t	Benzidine	0.439	0.455	-3.6	142	-0.03	11.34
85	t	Pyrene	1.335	1.395	-4.5	120	-0.03	11.42
86	S	Terphenyl-d14	1.135	1.016	10.5	117	-0.04	11.87
87	t	Butylbenzylphthalate	0.498	0.632	-26.9#	137	-0.04	13.06
88	t	Benzo[a]anthracene	1.239	1.405	-13.4	130	-0.03	14.06
89	t	3,3'-Dichlorobenzidine	0.402	0.487	-21.1#	128	-0.03	14.12
90	t	Chrysene	1.149	1.243	-8.2	126	-0.03	14.14
91	t	bis(2-Ethylhexyl)phthalat	0.798	0.921	-15.4	130	-0.05	14.47
92	I	Perylene-d12	1.000	1.000	0.0	129	-0.03	17.12
93	t	Di-n-octylphthalate	1.177	1.497	-27.2#	139	-0.05	15.93
94	t	Benzo[b]fluoranthene	1.091	1.222	-12.0	128	-0.04	16.37
95	t	Benzo[k]fluoranthene	1.074	1.160	-8.0	129	-0.03	16.44
96	t	Benzo[a]pyrene	0.968	1.100	-13.6	130	-0.04	17.01
97	t	Indeno[1,2,3-cd]pyrene	0.994	1.128	-13.5	127	-0.03	19.08
98	t	Dibenz(a,h)acridine	0.836	0.966	-15.6	128	-0.04	18.72
99	t	Dibenz[a,h]anthracene	0.963	1.065	-10.6	126	-0.04	19.14
100	t	7,12-Dimethylbenz(a)anthr	0.432	0.469	-8.6	123	-0.04	16.39
101	t	Benzo[g,h,i]perylene	0.964	1.071	-11.1	125	-0.03	19.51

(#) = Out of Range SPCC's out = 0 CCC's out = 0
p160535a.D MP7505 .M Tue Jul 02 19:01:16 2024

8.8.29

8

Continuing Calibration Summary

Job Number: JD91339 **Sample:** EP7514-CC7505
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** P160654.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...elas\EP7514\p160654.d Vial: 4
Acq On : 2 Jul 2024 11:58 am Operator: karimam
Sample : cc7505-50 Inst : GCMSP
Misc : op55750,ep7514,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : X:\Dayton SVOA G...ETHODS\MP7505 .M (RTE Integrator)
Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Fri Jun 28 15:29:19 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102 I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	67	-0.02	4.62
103	Benzaldehyde	1.027	1.131	-10.1	64	-0.03	4.31
104 I	Phenanthrene-d10b	1.000	1.000	0.0	93	-0.03	8.81
105	Atrazine	0.192	0.231	-20.3#	97	-0.02	8.44
106	Naphthalene-d8b	1.000	1.000	0.0	72	-0.02	5.53
107	Caprolactam	0.121	0.168	-38.8#	87	-0.02	5.83

(#) = Out of Range SPCC's out = 0 CCC's out = 0
p160535a.D MP7505 .M Tue Jul 02 19:01:31 2024

8.8.30

8

Continuing Calibration Summary

Job Number: JD91339 **Sample:** EP7514-CC7506
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** P160655.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...eelo\EP7514\p160655.d Vial: 5
Acq On : 2 Jul 2024 12:24 pm Operator: karimam
Sample : cc7506-50 Inst : GCMSP
Misc : op55750,ep7514,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : X:\Dayton SVOA G...hods\MP7505ap9.M (RTE Integrator)
Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Wed Jul 03 02:40:31 2024
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	I	1,4-Dichlorobenzene-d4A	1.000	1.000	0.0	64	-0.01	4.62
103	M	2-Picoline	1.349	1.366	-1.3	63	-0.03	3.28
104		Pentachloroethane	0.564	0.569	-0.9	64	-0.01	4.43
105	M	Methyl methanesulfonate	0.512	0.630	-23.0#	74	-0.02	3.58
106	M	N-Nitrosodiethylamine	0.495	0.566	-14.3	69	-0.02	3.86
107	M	N-Nitrosomethylethylamine	0.552	0.608	-10.1	65	-0.03	3.36
108	M	Ethyl methanesulfonate	0.773	0.979	-26.6#	76	-0.01	4.08
109	M	N-Nitrosopyrrolidine	0.504	0.671	-33.1#	78	-0.02	4.90
110	M	N-Nitrosomorpholine	0.588	0.741	-26.0#	77	-0.02	4.92
111	M	o-Toluidine	1.804	1.837	-1.8	70	-0.01	4.93
112	I	Naphthalene-d8A	1.000	1.000	0.0	70	-0.01	5.53
113	M	O,O,O-Triethyl phosphorot	0.168	0.172	-2.4	69	-0.01	5.33
114	M	N-Nitrosopiperidine	0.184	0.208	-13.0	71	-0.01	5.14
115	M	A,A-Dimethylphenethylamin	0.619	0.840	-35.7#	84	0.00	5.42
116	M	Hexachloropropene	0.218	0.224	-2.8	68	-0.01	5.60
117	M	N-Nitrosodi-n-butylamine	0.185	0.223	-20.5#	77	-0.01	5.81
118		p-Phenylenediamine	0.096	0.058	39.6#	59	-0.01	5.84
119	M	Safrole	0.253	0.284	-12.3	74	-0.02	5.97
120		Isosafrole	0.205	0.234	-14.1	75	-0.01	6.38
121		Acenaphthene-d10A	1.000	1.000	0.0	75	-0.02	6.94
122	M	Thionazin	0.147	0.169	-15.0	82	-0.02	7.51
123	M	Tetraethyl dithiopyrophos	0.139	0.143	-2.9	73	-0.02	7.90
		----------	True	Calc.	% Drift		----------	
124	M	Phorate	50.000	66.847	-33.7#	95	0.00	8.04
		----------	AvgRF	CCRF	% Dev		----------	
125	M	Phenacetin	0.481	0.615	-27.9#	84	0.00	8.13
126	M	1,4-Naphthoquinone	0.334	0.355	-6.3	70	-0.01	6.58
127	M	m-Dinitrobenzene	0.142	0.179	-26.1#	84	-0.01	6.71
128	M	Pentachlorobenzene	0.528	0.492	6.8	71	-0.02	7.10
129	M	2-Naphthylamine	0.942	1.044	-10.8	81	-0.01	7.33
130	M	1-Naphthylamine	0.943	0.973	-3.2	77	-0.01	7.24
131	M	5-Nitro-o-toluidine	0.287	0.358	-24.7#	82	0.00	7.57
132	I	Phenanthrene-d10A	1.000	1.000	0.0	78	-0.02	8.81
133	M	Disulfoton	0.268	0.303	-13.1	80	-0.03	8.86
		----------	True	Calc.	% Drift		----------	

Continuing Calibration Summary

Job Number: JD91339 **Sample:** EP7514-CC7506
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** P160655.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

134	M	Dinoseb	50.000	57.115	-14.2	89	-0.02	8.83
			AvgRF	CCRF	% Dev			
135	M	Dimethoate	0.186	0.233	-25.3#	84	0.00	8.33
136	M	4-Aminobiphenyl	0.647	0.737	-13.9	81	-0.02	8.55
137	M	Methyl parathion	0.145	0.185	-27.6#	84	-0.02	9.48
138	M	Parathion	0.109	0.149	-36.7#	91	-0.03	10.22
139	M	Diphenylamine	0.530	0.545	-2.8	78	-0.01	7.68
140	M	Isodrin	0.118	0.130	-10.2	81	-0.03	10.68
141	M	Diallate	0.179	0.196	-9.5	81	-0.02	8.06
142	M	Pentachloronitrobenzene	0.035	0.036#	-2.9	75	-0.02	8.54
143	M	Pronamide	0.285	0.346	-21.4#	84	-0.02	8.67
			True	Calc.	% Drift			
144	M	4-Nitroquinoline 1-oxide	200.000	219.223	-9.6	80	-0.02	10.23
145	M	Methapyriline	50.000	36.906	26.2#	66	0.18	10.63
146	M	sym-Trinitrobenzene	50.000	61.937	-23.9#	96	0.00	8.04
			AvgRF	CCRF	% Dev			
147	I	Chrysene-d12A	1.000	1.000	0.0	84	-0.03	14.07
			True	Calc.	% Drift			
148		Aramite	50.000	57.272	-14.5	92	-0.03	11.93
			AvgRF	CCRF	% Dev			
149	M	p-(Dimethylamine)azobenze	0.262	0.320	-22.1#	86	-0.03	12.19
150		Kepone	0.069	0.058	15.9	81	-0.03	12.88
			True	Calc.	% Drift			
151	M	Famphur	300.000	240.424	19.9	79	-0.03	12.89
			AvgRF	CCRF	% Dev			
152	M	2-Acetylaminofluorene	0.453	0.566	-24.9#	92	-0.01	13.49
153	M	Chlorobenzilate	0.289	0.327	-13.1	83	-0.02	12.34
154	I	Perylene-d12A	1.000	1.000	0.0	87	-0.02	17.12
155	M	4,4-Methylene-bis-(2-chlo	0.014	0.021#	-50.0#	149	-0.02	17.65
			True	Calc.	% Drift			
156		Hexachlorophene	250.000	112.601	55.0#	33	-0.02	16.88
			AvgRF	CCRF	% Dev			
157		3-Methylcholanthrene	0.214	0.241	-12.6	89	-0.03	17.73

(#) = Out of Range SPCC's out = 0 CCC's out = 0
p160654.d MP7505ap9.M Wed Jul 03 02:47:59 2024

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: E3E5799	**Method:** SW846 8270E	**Instrument ID:** GCMS3E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E3E5799-DFTPP	3E124709.D	06/10/24 13:12	n/a	DFTPP Tune
E3E5799-ICC5799	3E124710.D	06/10/24 13:32	n/a	Initial cal 50
E3E5799-IC5799	3E124712.D	06/10/24 13:58	n/a	Initial cal 1
E3E5799-IC5799	3E124713.D	06/10/24 14:24	n/a	Initial cal 2
E3E5799-IC5799	3E124714.D	06/10/24 14:51	n/a	Initial cal 5
E3E5799-IC5799	3E124715.D	06/10/24 15:17	n/a	Initial cal 10
E3E5799-IC5799	3E124716.D	06/10/24 15:43	n/a	Initial cal 25
E3E5799-IC5799	3E124717.D	06/10/24 16:09	n/a	Initial cal 80
E3E5799-IC5799	3E124718.D	06/10/24 16:35	n/a	Initial cal 100
E3E5799-IC5799	3E124719.D	06/10/24 17:01	n/a	Initial cal 1
E3E5799-IC5799	3E124720.D	06/10/24 17:27	n/a	Initial cal 2
E3E5799-IC5799	3E124721.D	06/10/24 17:53	n/a	Initial cal 5
E3E5799-IC5799	3E124722.D	06/10/24 18:20	n/a	Initial cal 10
E3E5799-IC5799	3E124723.D	06/10/24 18:46	n/a	Initial cal 25
E3E5799-IC5799	3E124724.D	06/10/24 19:12	n/a	Initial cal 50
E3E5799-IC5799	3E124725.D	06/10/24 19:38	n/a	Initial cal 80
E3E5799-IC5799	3E124726.D	06/10/24 20:05	n/a	Initial cal 100
E3E5799-ICV5799	3E124727.D	06/10/24 20:31	n/a	Initial cal verification 50
E3E5799-ICV5799	3E124729.D	06/10/24 21:23	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: E3E5802	**Method:** SW846 8270E	**Instrument ID:** GCMS3E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E3E5802-DFTPP	3E124756.D	06/17/24 13:10	n/a	DFTPP Tune
E3E5802-ICV5799	3E124757.D	06/17/24 13:30	n/a	Initial cal verification 50
E3E5802-ICV5799	3E124759.D	06/17/24 14:15	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: E3E5816	**Method:** SW846 8270E	**Instrument ID:** GCMS3E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E3E5816-CC5799	3E125074.D	07/02/24 21:43	n/a	Continuing cal 50
E3E5816-CC5799	3E125075.D	07/02/24 22:09	n/a	Continuing cal 50
ZZZZZZ	3E125087.D	07/03/24 03:25	OP55822	(unrelated sample)
OP55822-MSD	3E125096.D	07/03/24 07:20	OP55822	Matrix Spike Duplicate

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: E3E5817	**Method:** SW846 8270E	**Instrument ID:** GCMS3E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E3E5817-CC5799	3E125098.D	07/03/24 11:15	n/a	Continuing cal 50
E3E5817-CC5799	3E125099.D	07/03/24 11:41	n/a	Continuing cal 50
OP55822-MB1	3E125101.D	07/03/24 12:33	OP55822	Method Blank
OP55822-BS1	3E125102.D	07/03/24 12:59	OP55822	Blank Spike
JD91297-41	3E125103.D	07/03/24 13:25	OP55822	(used for QC only; not part of job JD91339)
ZZZZZZ	3E125104.D	07/03/24 13:51	OP55822	(unrelated sample)
JD91339-13	3E125105.D	07/03/24 14:17	OP55822	DUP-1
JD91339-14	3E125106.D	07/03/24 14:43	OP55822	DUP-2
ZZZZZZ	3E125107.D	07/03/24 15:09	OP55822	(unrelated sample)
ZZZZZZ	3E125108.D	07/03/24 15:35	OP55822	(unrelated sample)
ZZZZZZ	3E125109.D	07/03/24 16:01	OP55822	(unrelated sample)
ZZZZZZ	3E125110.D	07/03/24 16:27	OP55822	(unrelated sample)
ZZZZZZ	3E125111.D	07/03/24 16:53	OP55822	(unrelated sample)
ZZZZZZ	3E125112.D	07/03/24 17:19	OP55822	(unrelated sample)
ZZZZZZ	3E125113.D	07/03/24 17:45	OP55822	(unrelated sample)
ZZZZZZ	3E125114.D	07/03/24 18:11	OP55822	(unrelated sample)
ZZZZZZ	3E125115.D	07/03/24 18:37	OP55822	(unrelated sample)
ZZZZZZ	3E125116.D	07/03/24 19:02	OP55822	(unrelated sample)
ZZZZZZ	3E125117.D	07/03/24 19:28	OP55822	(unrelated sample)
OP55822-MS	3E125118.D	07/03/24 19:55	OP55822	Matrix Spike

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: E3E5819	**Method:** SW846 8270E	**Instrument ID:** GCMS3E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E3E5819-DFTPP	3E125150.D	07/05/24 07:43	n/a	DFTPP Tune
E3E5819-CC5799	3E125151.D	07/05/24 07:57	n/a	Continuing cal 50
E3E5819-CC5799	3E125153.D	07/05/24 08:49	n/a	Continuing cal 50
OP55880B-MB1	3E125154.D	07/05/24 09:21	OP55880B	Method Blank
OP55880-MB1	3E125154.D	07/05/24 09:21	OP55880	Method Blank
OP55880B-BS1	3E125155.D	07/05/24 09:47	OP55880B	Blank Spike
OP55880B-BSD	3E125156.D	07/05/24 10:13	OP55880B	Blank Spike Duplicate
OP55880-BSD	3E125156.D	07/05/24 10:13	OP55880	Blank Spike Duplicate
ZZZZZZ	3E125157.D	07/05/24 10:39	OP55880B	(unrelated sample)
ZZZZZZ	3E125158.D	07/05/24 11:05	OP55880B	(unrelated sample)
ZZZZZZ	3E125159.D	07/05/24 11:31	OP55880	(unrelated sample)
ZZZZZZ	3E125160.D	07/05/24 11:57	OP55880	(unrelated sample)
ZZZZZZ	3E125161.D	07/05/24 12:22	OP55857	(unrelated sample)
ZZZZZZ	3E125162.D	07/05/24 12:48	OP55857	(unrelated sample)
ZZZZZZ	3E125163.D	07/05/24 13:14	OP55857	(unrelated sample)
ZZZZZZ	3E125164.D	07/05/24 13:40	OP55857	(unrelated sample)
ZZZZZZ	3E125165.D	07/05/24 14:06	OP55857	(unrelated sample)
ZZZZZZ	3E125166.D	07/05/24 14:32	OP55857	(unrelated sample)
ZZZZZZ	3E125167.D	07/05/24 14:58	OP55857	(unrelated sample)
JD91339-3	3E125168.D	07/05/24 15:24	OP55800	GRID-20
JD91287-1	3E125169.D	07/05/24 15:50	OP55783	(used for QC only; not part of job JD91339)
ZZZZZZ	3E125170.D	07/05/24 16:16	OP55783	(unrelated sample)

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: ECT345	**Method:** SW846 8270E	**Instrument ID:** GCMSCT

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
ECT345-DFTPP	CT7151.D	06/03/24 10:44	n/a	DFTPP Tune
ECT345-ICC345	CT7153.D	06/03/24 12:43	n/a	Initial cal 50
ECT345-IC345	CT7154.D	06/03/24 13:02	n/a	Initial cal 1
ECT345-IC345	CT7155.D	06/03/24 13:21	n/a	Initial cal 2
ECT345-IC345	CT7156.D	06/03/24 13:40	n/a	Initial cal 5
ECT345-IC345	CT7157.D	06/03/24 13:59	n/a	Initial cal 10
ECT345-IC345	CT7158.D	06/03/24 14:20	n/a	Initial cal 25
ECT345-IC345	CT7159.D	06/03/24 14:39	n/a	Initial cal 80
ECT345-IC345	CT7160.D	06/03/24 14:58	n/a	Initial cal 100
ECT345-IC345	CT7161.D	06/03/24 15:16	n/a	Initial cal 50
ECT345-IC345	CT7162.D	06/03/24 15:35	n/a	Initial cal 1
ECT345-IC345	CT7163.D	06/03/24 15:54	n/a	Initial cal 2
ECT345-IC345	CT7164.D	06/03/24 16:13	n/a	Initial cal 5
ECT345-IC345	CT7165.D	06/03/24 16:32	n/a	Initial cal 10
ECT345-IC345	CT7166.D	06/03/24 16:51	n/a	Initial cal 25
ECT345-IC345	CT7167.D	06/03/24 17:10	n/a	Initial cal 80
ECT345-IC345	CT7168.D	06/03/24 17:29	n/a	Initial cal 100
ECT345-ICV345	CT7169.D	06/03/24 17:48	n/a	Initial cal verification 50
ECT345-ICV345	CT7172.D	06/03/24 18:45	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: ECT346	**Method:** SW846 8270E	**Instrument ID:** GCMSCT

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
ECT346-DFTPP	CT7173.D	06/05/24 14:19	n/a	DFTPP Tune
ECT346-ICV345	CT7174.D	06/05/24 14:49	n/a	Initial cal verification 50
ECT346-ICV345	CT7175.D	06/05/24 15:08	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: ECT375	**Method:** SW846 8270E	**Instrument ID:** GCMSCT

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
ECT375-CC345	CT7965.D	07/03/24 10:12	n/a	Continuing cal 50
ECT375-CC345	CT7967.D	07/03/24 10:31	n/a	Continuing cal 50
ECT375-CC345	CT7969.D	07/03/24 11:19	n/a	Continuing cal 5
OP55800-MB1	CT7970.D	07/03/24 11:38	OP55800	Method Blank
OP55800-BS1	CT7971.D	07/03/24 11:57	OP55800	Blank Spike
OP55844-MB1	CT7972.D	07/03/24 12:16	OP55844	Method Blank
OP55844-LB2	CT7973.D	07/03/24 12:34	OP55844	Leachate Blank
OP55844-BS1	CT7974.D	07/03/24 12:53	OP55844	Blank Spike
JD91339-1	CT7975.D	07/03/24 13:12	OP55800	GRID-3
JD91339-7	CT7976.D	07/03/24 13:31	OP55800	GRID-9
JD91339-8	CT7977.D	07/03/24 13:50	OP55800	GRID-8A
JD91339-9	CT7978.D	07/03/24 14:09	OP55800	GRID-5
JD91339-10	CT7980.D	07/03/24 14:47	OP55800	GRID-6
JD91339-11	CT7981.D	07/03/24 15:06	OP55800	GRID-7
JD91339-2	CT7982.D	07/03/24 15:25	OP55800	GRID-4
JD91339-3	CT7983.D	07/03/24 15:43	OP55800	GRID-20
JD91339-4	CT7984.D	07/03/24 16:02	OP55800	GRID-11
JD91339-5	CT7985.D	07/03/24 16:21	OP55800	GRID-10A
JD91339-6	CT7986.D	07/03/24 16:40	OP55800	GRID-21
OP55800-MS	CT7987.D	07/03/24 16:59	OP55800	Matrix Spike
OP55800-MSD	CT7988.D	07/03/24 17:18	OP55800	Matrix Spike Duplicate
OP55844-MS	CT7989.D	07/03/24 17:37	OP55844	Matrix Spike
OP55844-LS2	CT7989.D	07/03/24 17:37	OP55844	Leachate Spike
OP55844-MSD	CT7990.D	07/03/24 17:56	OP55844	Matrix Spike Duplicate
JD91371-1	CT7991.D	07/03/24 18:15	OP55844	(used for QC only; not part of job JD91339)
ZZZZZZ	CT7992.D	07/03/24 18:34	OP55844	(unrelated sample)
ZZZZZZ	CT7993.D	07/03/24 18:53	OP55844	(unrelated sample)
ZZZZZZ	CT7994.D	07/03/24 19:12	OP55844	(unrelated sample)
ZZZZZZ	CT7995.D	07/03/24 19:30	OP55844	(unrelated sample)
ZZZZZZ	CT7996.D	07/03/24 19:49	OP55844	(unrelated sample)
ZZZZZZ	CT7997.D	07/03/24 20:08	OP55844	(unrelated sample)
ZZZZZZ	CT7998.D	07/03/24 20:27	OP55844	(unrelated sample)
ZZZZZZ	CT7999.D	07/03/24 20:46	OP55844	(unrelated sample)
ZZZZZZ	CT8000.D	07/03/24 21:05	OP55844	(unrelated sample)
ZZZZZZ	CT8001.D	07/03/24 21:24	OP55844	(unrelated sample)
ZZZZZZ	CT8002.D	07/03/24 21:43	OP55844	(unrelated sample)
ZZZZZZ	CT8003.D	07/03/24 22:02	OP55844	(unrelated sample)

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: EP7505	**Method:** SW846 8270E	**Instrument ID:** GCMSP

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
EP7505-DFTPP	P160511.D	06/14/24 11:08	n/a	DFTPP Tune
EP7505-ICC7505	P160512.D	06/14/24 11:22	n/a	Initial cal 50
EP7505-IC7505	P160513.D	06/14/24 11:57	n/a	Initial cal 1
EP7505-IC7505	P160514.D	06/14/24 12:25	n/a	Initial cal 2
EP7505-IC7505	P160515.D	06/14/24 12:52	n/a	Initial cal 5
EP7505-IC7505	P160516.D	06/14/24 13:26	n/a	Initial cal 10
EP7505-IC7505	P160517.D	06/14/24 13:54	n/a	Initial cal 25
EP7505-IC7505	P160518.D	06/14/24 14:20	n/a	Initial cal 80
EP7505-IC7505	P160519.D	06/14/24 14:49	n/a	Initial cal 100
EP7505-IC7505	P160520.D	06/14/24 15:19	n/a	Initial cal 50
EP7505-IC7505	P160521.D	06/14/24 15:45	n/a	Initial cal 1
EP7505-IC7505	P160522.D	06/14/24 16:11	n/a	Initial cal 2
EP7505-IC7505	P160523.D	06/14/24 16:36	n/a	Initial cal 5
EP7505-IC7505	P160524.D	06/14/24 17:06	n/a	Initial cal 10
EP7505-IC7505	P160525.D	06/14/24 17:34	n/a	Initial cal 25
EP7505-IC7505	P160526.D	06/14/24 17:59	n/a	Initial cal 80
EP7505-IC7505	P160527.D	06/14/24 18:24	n/a	Initial cal 100
EP7505-ICV7505	P160528.D	06/14/24 18:49	n/a	Initial cal verification 50
EP7505-ICV7505	P160529.D	06/14/24 19:14	n/a	Initial cal verification 50
EP7505-ICV7505	P160530.D	06/14/24 19:39	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: EP7506	**Method:** SW846 8270E	**Instrument ID:** GCMSP

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
EP7506-DFTPP	P160534.D	06/20/24 15:27	n/a	DFTPP Tune
EP7506-ICC7506	P160535.D	06/20/24 15:42	n/a	Initial cal 50
EP7506-IC7506	P160536.D	06/20/24 16:11	n/a	Initial cal 1
EP7506-IC7506	P160537.D	06/20/24 16:42	n/a	Initial cal 2
EP7506-IC7506	P160538.D	06/20/24 17:11	n/a	Initial cal 5
EP7506-IC7506	P160539.D	06/20/24 17:37	n/a	Initial cal 10
EP7506-IC7506	P160540.D	06/20/24 18:02	n/a	Initial cal 25
EP7506-IC7506	P160541.D	06/20/24 18:28	n/a	Initial cal 80
EP7506-IC7506	P160542.D	06/20/24 18:55	n/a	Initial cal 100

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: EP7507	**Method:** SW846 8270E	**Instrument ID:** GCMSP

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
EP7507-DFTPP	P160545.D	06/24/24 19:53	n/a	DFTPP Tune
EP7507-ICV7506	P160548.D	06/24/24 20:55	n/a	Initial cal verification 50
EP7507-ICV7506	P160549.D	06/24/24 21:20	n/a	Initial cal verification 50
EP7507-ICV7506	P160550.D	06/24/24 21:46	n/a	Initial cal verification 50

8.9.11

8

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: EP7508	**Method:** SW846 8270E	**Instrument ID:** GCMSP

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
EP7508-DFTPP	P160551.D	06/26/24 14:55	n/a	DFTPP Tune
EP7508-ICV7505	P160552A.D	06/26/24 15:30	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: EP7514	**Method:** EPA 625.1	**Instrument ID:** GCMSP

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
EP7514-DFTPP	P160652.D	07/02/24 11:14	n/a	DFTPP Tune
EP7514-CC7505	P160653.D	07/02/24 11:25	n/a	Continuing cal 50
EP7514-CC7505	P160654.D	07/02/24 11:58	n/a	Continuing cal 50
EP7514-CC7506	P160655.D	07/02/24 12:24	n/a	Continuing cal 50
OP55776B-MB1	P160657.D	07/02/24 13:16	OP55776B	Method Blank
OP55776-MB1	P160657A.D	07/02/24 13:16	OP55776	Method Blank
OP55776B-BS1	P160658.D	07/02/24 13:41	OP55776B	Blank Spike
OP55776-BS1	P160658A.D	07/02/24 13:41	OP55776	Blank Spike
OP55776B-BSD	P160659.D	07/02/24 14:07	OP55776B	Blank Spike Duplicate
OP55776-BSD	P160659A.D	07/02/24 14:07	OP55776	Blank Spike Duplicate
OP55776B-BS13	P160660.D	07/02/24 14:33	OP55776B	Blank Spike
ZZZZZZ	P160661.D	07/02/24 14:59	OP55776B	(unrelated sample)
ZZZZZZ	P160662.D	07/02/24 15:25	OP55776B	(unrelated sample)
ZZZZZZ	P160663.D	07/02/24 15:56	OP55716B	(unrelated sample)
ZZZZZZ	P160664.D	07/02/24 16:26	OP55776	(unrelated sample)
JD91339-12	P160665.D	07/02/24 16:54	OP55776	FB-3
ZZZZZZ	P160666.D	07/02/24 17:23	OP55776B	(unrelated sample)
ZZZZZZ	P160668.D	07/02/24 18:19	OP55776B	(unrelated sample)
ZZZZZZ	P160669.D	07/02/24 18:45	OP55776B	(unrelated sample)
ZZZZZZ	P160670.D	07/02/24 19:11	OP55776B	(unrelated sample)
ZZZZZZ	P160671.D	07/02/24 19:38	OP55776B	(unrelated sample)
ZZZZZZ	P160672.D	07/02/24 20:05	OP55776B	(unrelated sample)
ZZZZZZ	P160673.D	07/02/24 20:31	OP55776	(unrelated sample)
ZZZZZZ	P160674.D	07/02/24 20:56	OP55776B	(unrelated sample)

MS Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Jacky Takeuchi 07/03/24 21:22

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1 Inst : GCMS_CT
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 03 19:51:57 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

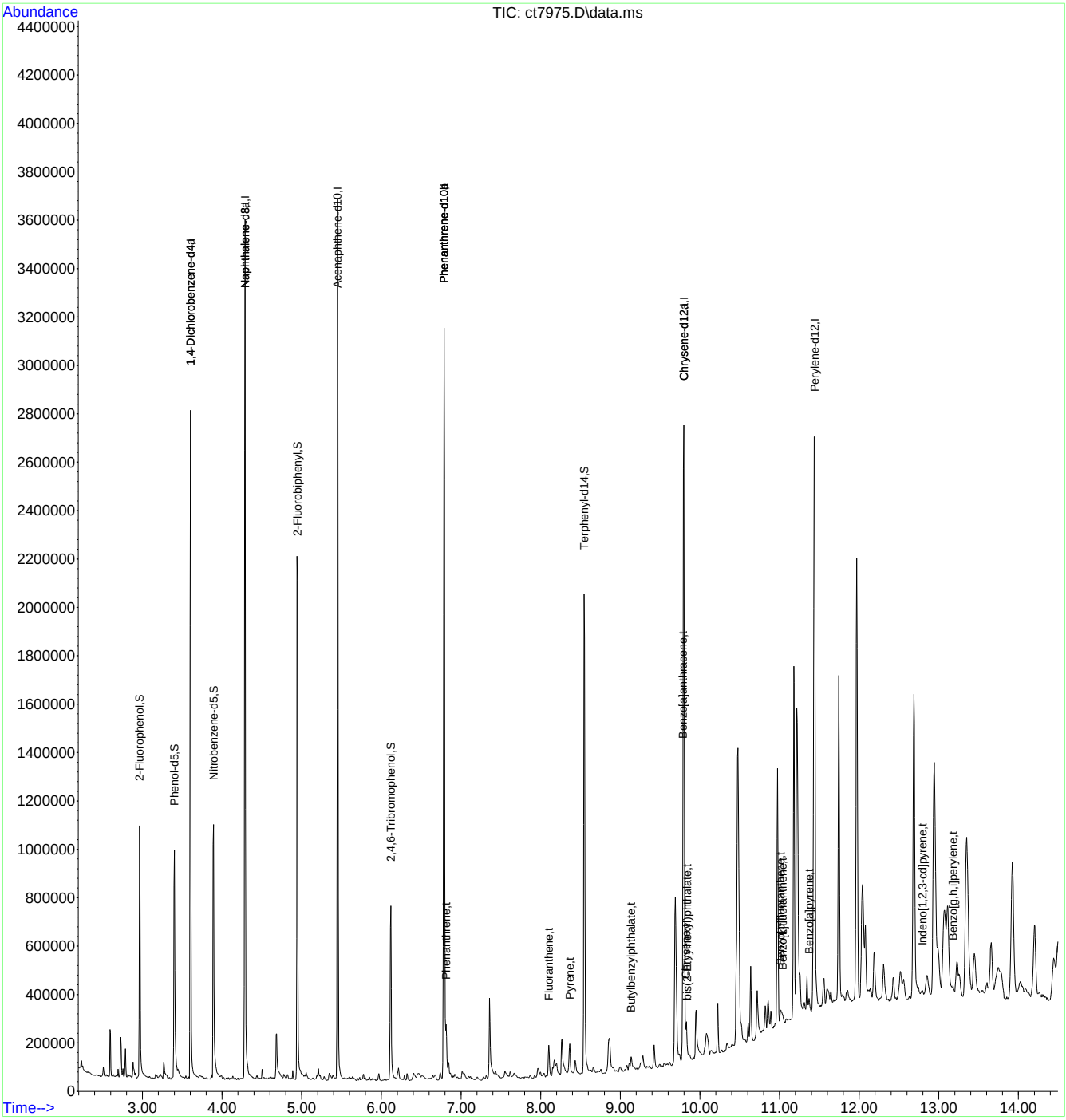
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.604	152	321289	40.00	ppm	0.00
24) Naphthalene-d8	4.289	136	1256446	40.00	ppm	0.00
46) Acenaphthene-d10	5.450	164	686405	40.00	ppm	0.00
69) Phenanthrene-d10	6.787	188	1190776	40.00	ppm	0.00
84) Chrysene-d12	9.798	240	928715	40.00	ppm	0.00
93) Perylene-d12	11.440	264	1041740	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	3.604	152	321289	40.00	ppm	0.00
105) Phenanthrene-d10a	6.787	188	1190776	40.00	ppm	0.00
107) Naphthalene-d8a	4.289	136	1256446	40.00	ppm	0.00
109) Phenanthrene-d10b	6.787	188	1190776	40.00	ppm	0.00
112) Chrysene-d12a	9.798	240	928715	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.963	112	253720	24.48	ppm	0.00
Spiked Amount 50.000			Recovery = 48.96%			
8) Phenol-d5	3.401	99	329004	25.35	ppm	0.00
Spiked Amount 50.000			Recovery = 50.70%			
25) Nitrobenzene-d5	3.893	82	340988	26.39	ppm	0.00
Spiked Amount 50.000			Recovery = 52.78%			
51) 2-Fluorobiphenyl	4.947	172	628876	29.36	ppm	0.00
Spiked Amount 50.000			Recovery = 58.72%			
74) 2,4,6-Tribromophenol	6.118	330	72641	32.10	ppm	0.00
Spiked Amount 50.000			Recovery = 64.20%			
87) Terphenyl-d14	8.547	244	652943	28.37	ppm	0.00
Spiked Amount 50.000			Recovery = 56.74%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
78) Phenanthrene	6.814	178	31696	1.0350	ppm	99
82) Fluoranthene	8.103	202	58409	1.9943	ppm	100
86) Pyrene	8.365	202	55109	1.6710	ppm	98
88) Butylbenzylphthalate	9.135	149	1666	1.6067	ppm	91
89) Benzo[a]anthracene	9.788	228	23002	0.7953	ppm	88
91) Chrysene	9.825	228	27419	0.9673	ppm	96
92) bis(2-Ethylhexyl)phtha...	9.841	149	4446m	1.7081	ppm	
95) Benzo[b]fluoranthene	11.012	252	35209m	1.1905	ppm	
96) Benzo[k]fluoranthene	11.039	252	11762m	0.4032	ppm	
97) Benzo[a]pyrene	11.371	252	23520	0.9752	ppm	95
98) Indeno[1,2,3-cd]pyrene	12.794	276	18991	0.6131	ppm	88
102) Benzo[g,h,i]perylene	13.179	276	20282	0.8490	ppm	92

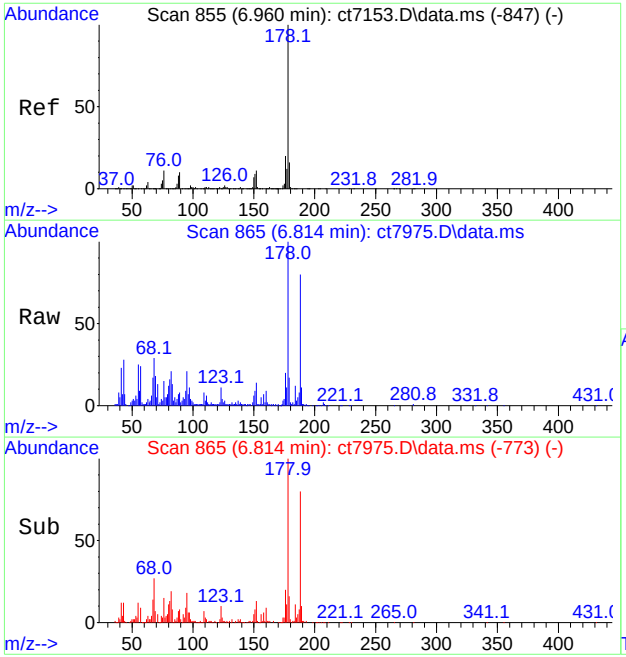
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1 Inst : GCMS_CT
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 03 19:51:57 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

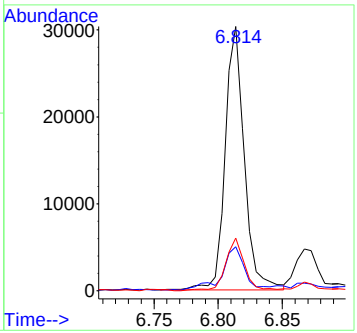


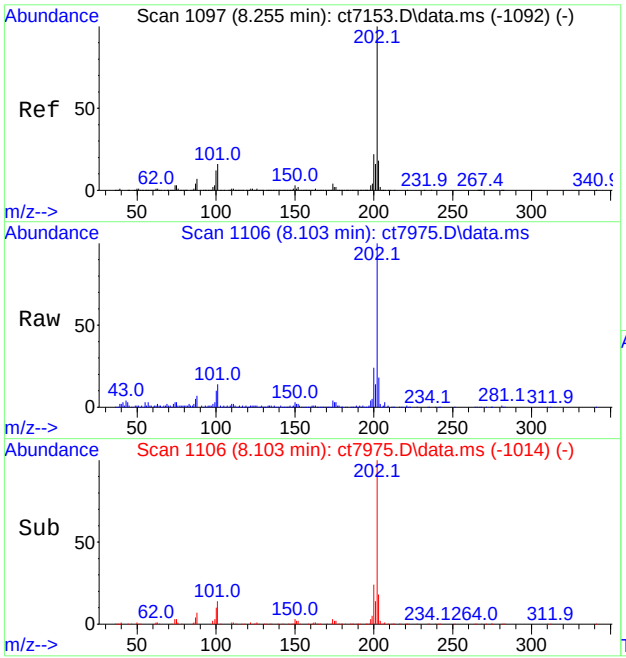


#78
Phenanthrene
Concen: 1.0350 ppm
RT: 6.814 min Scan# 865
Delta R.T. -0.005 min
Lab File: ct7975.D
Acq: 03 Jul 2024 01:12 pm

Tgt Ion:178 Resp: 31696

Ion	Ratio	Lower	Upper
178	100		
179	15.7	0.0	44.9
176	19.6	0.0	49.7

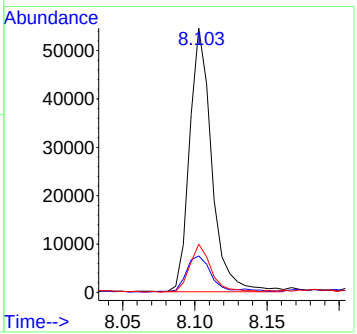


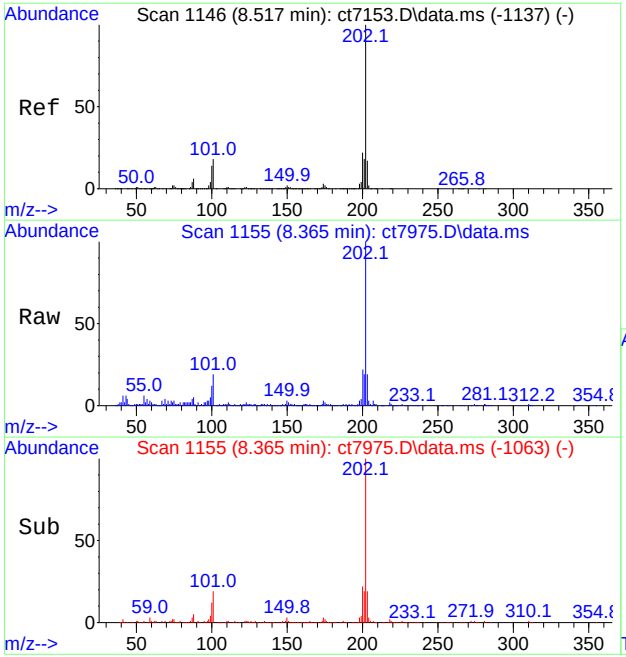


#82
Fluoranthene
Concen: 1.9943 ppm
RT: 8.103 min Scan# 1106
Delta R.T. -0.005 min
Lab File: ct7975.D
Acq: 03 Jul 2024 01:12 pm

Tgt Ion:202 Resp: 58409

Ion	Ratio	Lower	Upper
202	100		
101	13.4	0.0	43.5
203	17.8	0.0	47.6

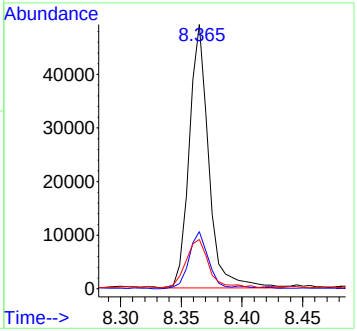


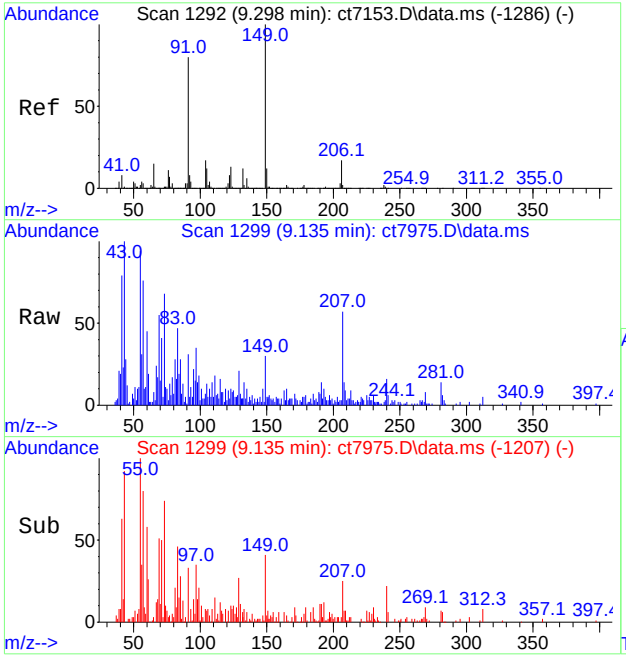


#86
Pyrene
Concen: 1.6710 ppm
RT: 8.365 min Scan# 1155
Delta R.T. -0.005 min
Lab File: ct7975.D
Acq: 03 Jul 2024 01:12 pm

Tgt Ion:202 Resp: 55109

Ion	Ratio	Lower	Upper
202	100		
200	21.7	0.0	52.6
203	18.4	0.0	47.9

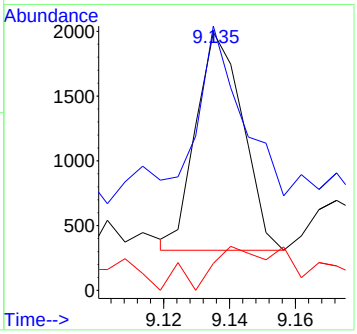


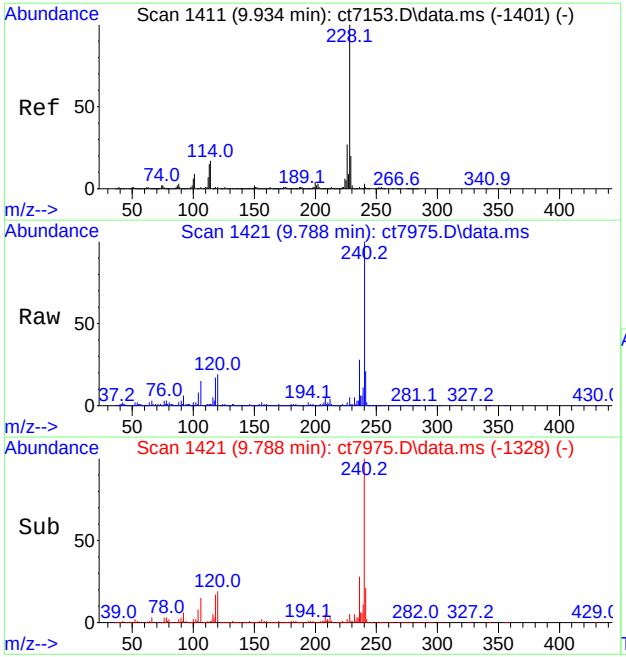


#88
Butylbenzylphthalate
Concen: 1.6067 ppm
RT: 9.135 min Scan# 1299
Delta R.T. -0.005 min
Lab File: ct7975.D
Acq: 03 Jul 2024 01:12 pm

Tgt Ion:149 Resp: 1666

Ion	Ratio	Lower	Upper
149	100		
91	76.3	49.4	109.4
206	2.4	0.0	47.9

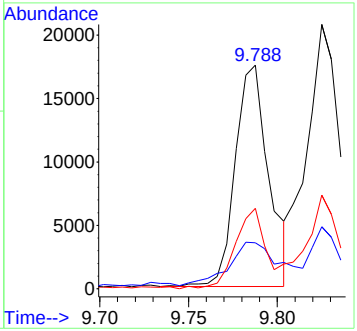


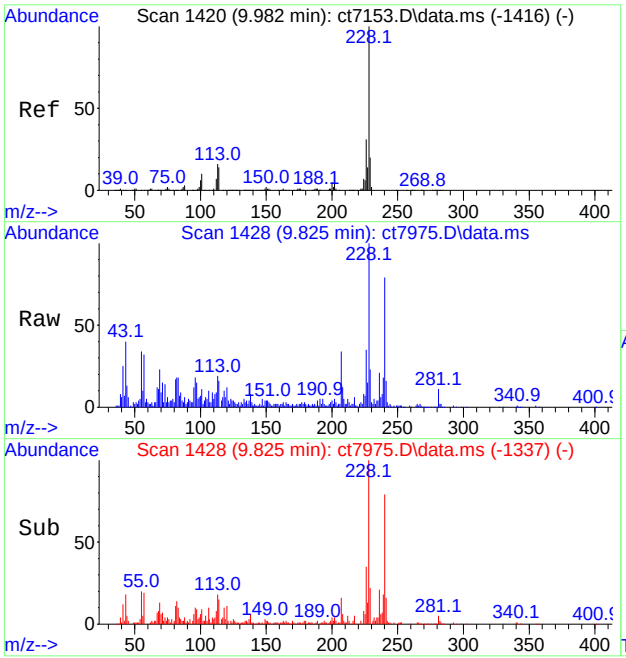


#89
Benzo[a]anthracene
Concen: 0.7953 ppm
RT: 9.788 min Scan# 1421
Delta R.T. -0.000 min
Lab File: ct7975.D
Acq: 03 Jul 2024 01:12 pm

Tgt Ion:228 Resp: 23002

Ion	Ratio	Lower	Upper
228	100		
229	16.0	0.0	50.1
226	35.7	0.0	58.0

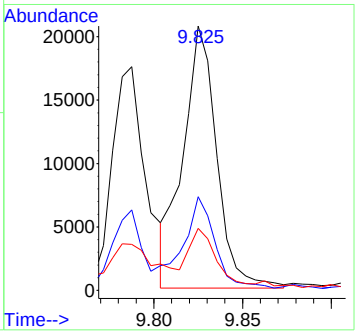


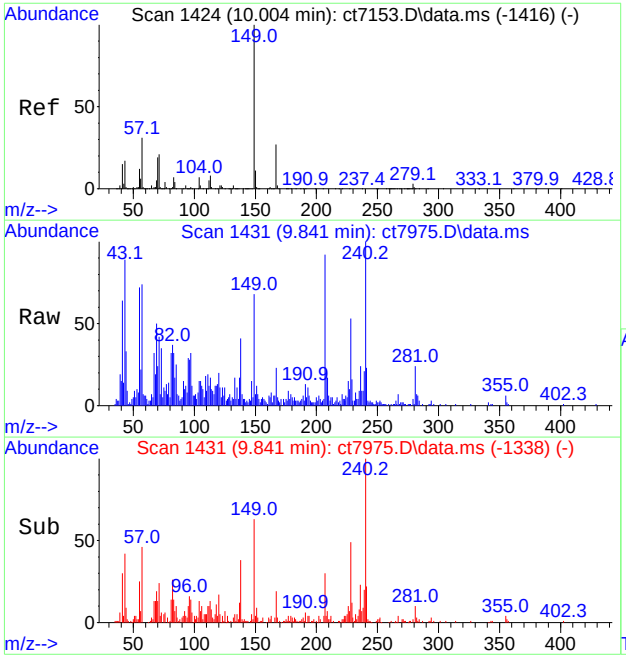


#91
Chrysene
Concen: 0.9673 ppm
RT: 9.825 min Scan# 1428
Delta R.T. -0.011 min
Lab File: ct7975.D
Acq: 03 Jul 2024 01:12 pm

Tgt Ion:228 Resp: 27419

Ion	Ratio	Lower	Upper
228	100		
226	34.9	1.3	61.3
229	20.3	0.0	50.3

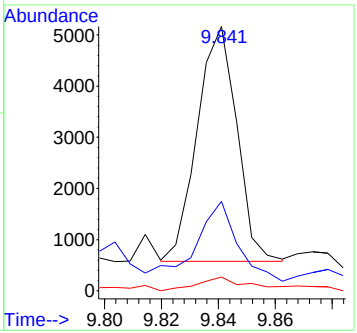


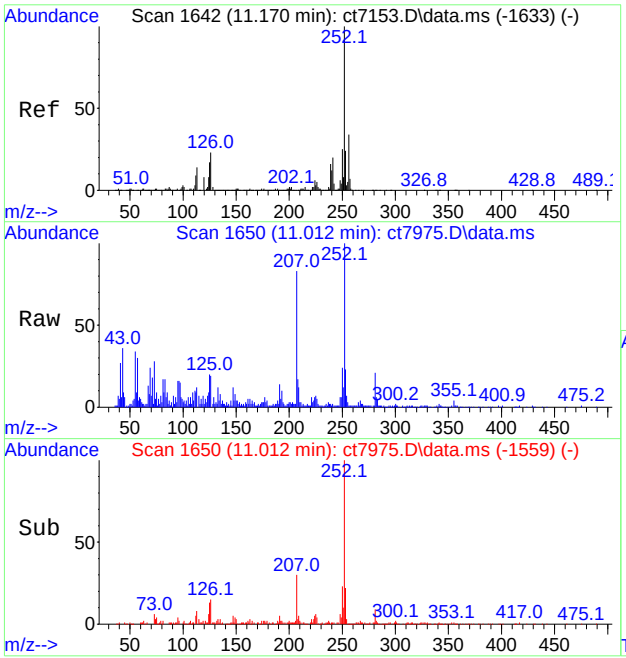


#92
bis(2-Ethylhexyl)phthalate
Concen: 1.7081 ppm m
RT: 9.841 min Scan# 1431
Delta R.T. -0.000 min
Lab File: ct7975.D
Acq: 03 Jul 2024 01:12 pm

Tgt Ion:149 Resp: 4446

Ion	Ratio	Lower	Upper
149	100		
167	33.8	0.0	56.3
279	5.2	0.0	33.6

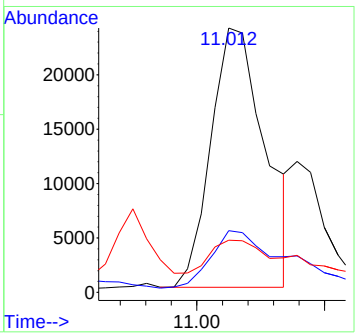


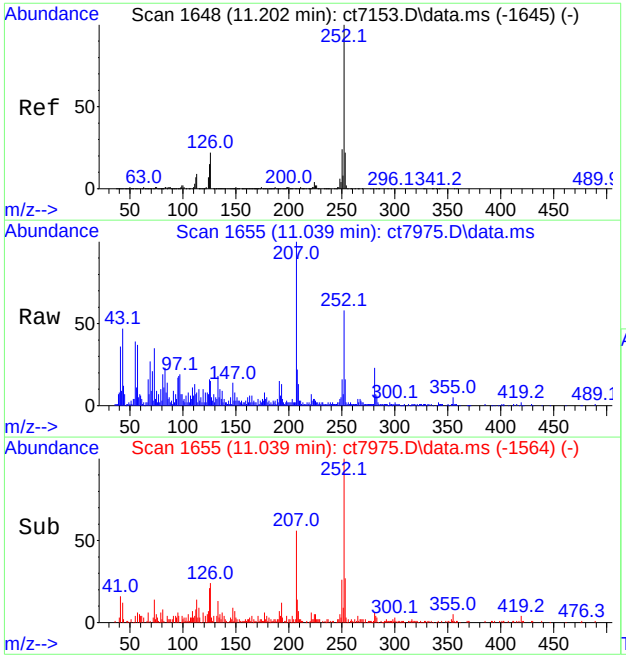


#95
Benzo[b]fluoranthene
Concen: 1.1905 ppm m
RT: 11.012 min Scan# 1650
Delta R.T. -0.011 min
Lab File: ct7975.D
Acq: 03 Jul 2024 01:12 pm

Tgt Ion:252 Resp: 35209

Ion	Ratio	Lower	Upper
252	100		
253	23.3	0.0	52.7
125	19.7	0.0	42.1

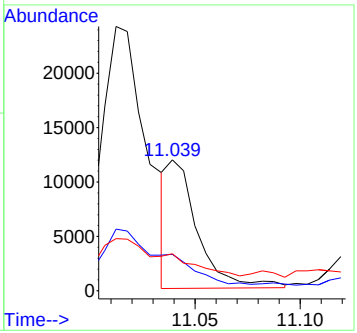


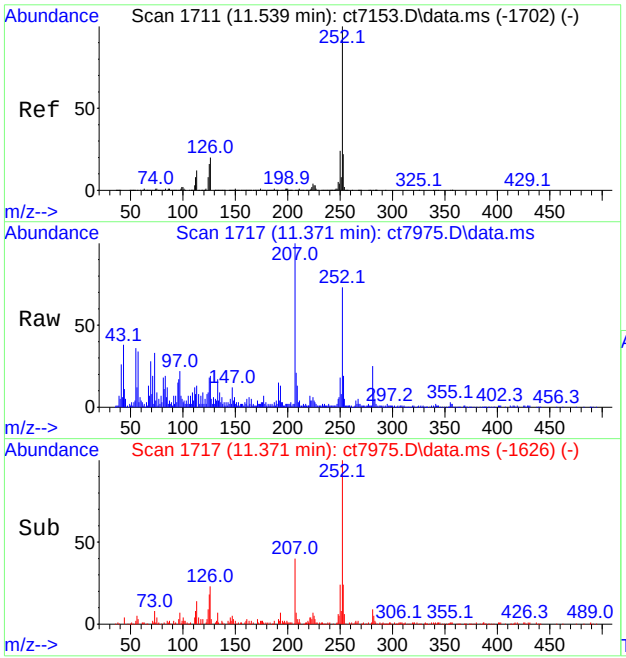


#96
Benzo[k]fluoranthene
Concen: 0.4032 ppm m
RT: 11.039 min Scan# 1655
Delta R.T. -0.011 min
Lab File: ct7975.D
Acq: 03 Jul 2024 01:12 pm

Tgt Ion:252 Resp: 11762

Ion	Ratio	Lower	Upper
252	100		
253	27.9	0.0	53.4
125	28.4	0.0	43.7

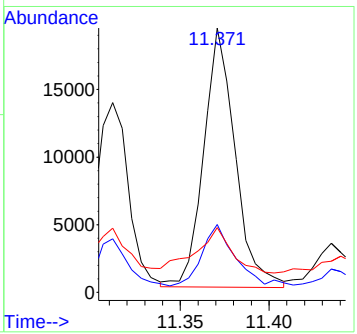


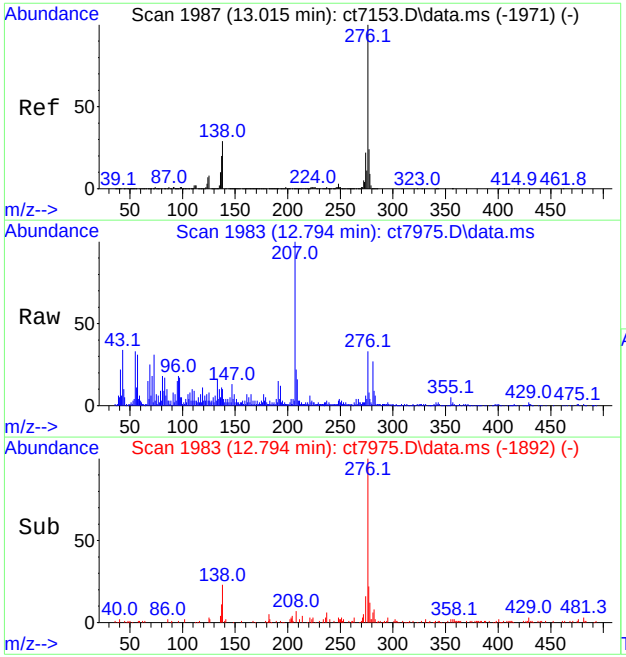


#97
Benzo[a]pyrene
Concen: 0.9752 ppm
RT: 11.371 min Scan# 1717
Delta R.T. -0.011 min
Lab File: ct7975.D
Acq: 03 Jul 2024 01:12 pm

Tgt Ion:252 Resp: 23520

Ion	Ratio	Lower	Upper
252	100		
253	23.1	0.0	51.8
125	16.7	0.0	42.9

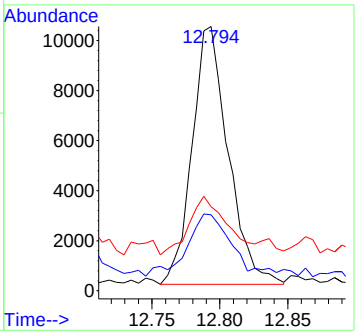


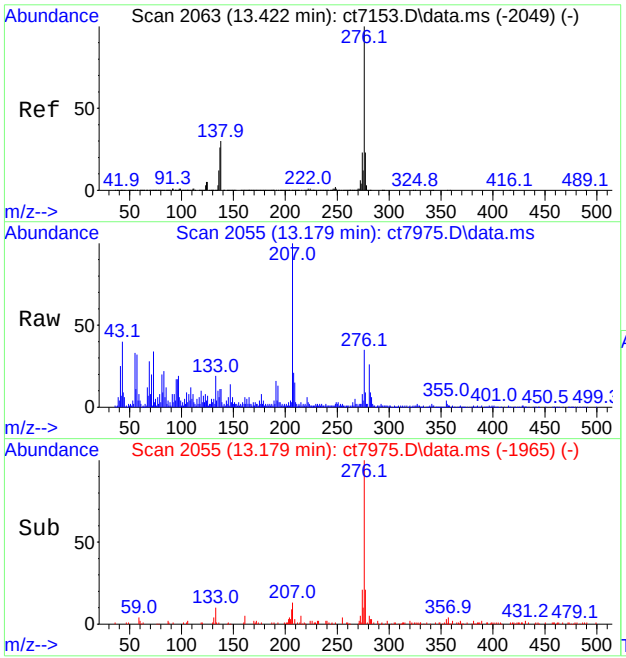


#98
Indeno[1,2,3-cd]pyrene
Concen: 0.6131 ppm
RT: 12.794 min Scan# 1983
Delta R.T. -0.011 min
Lab File: ct7975.D
Acq: 03 Jul 2024 01:12 pm

Tgt Ion:276 Resp: 18991

Ion	Ratio	Lower	Upper
276	100		
138	20.6	0.0	59.5
137	18.0	0.0	50.5

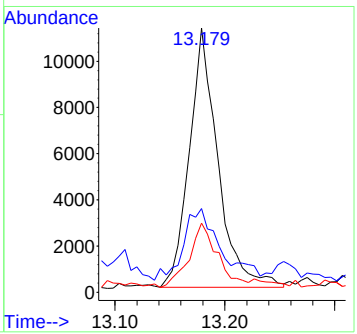




#102
Benzo[g,h,i]perylene
Concen: 0.8490 ppm
RT: 13.179 min Scan# 2055
Delta R.T. -0.016 min
Lab File: ct7975.D
Acq: 03 Jul 2024 01:12 pm

Tgt Ion:276 Resp: 20282

Ion	Ratio	Lower	Upper
276	100		
138	21.9	0.0	59.1
277	24.2	0.0	54.5



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: ct7975.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.289	383	393	415	rVB	3552239	2712437	84.06%	5.286%
2	4.503	430	433	441	rVB	40497	33899	1.05%	0.066%
3	4.685	463	467	481	rBV	184995	249455	7.73%	0.486%
4	4.776	481	484	489	rVB6	17318	18949	0.59%	0.037%
5	4.819	489	492	499	rVB7	19834	25269	0.78%	0.049%
6	4.888	499	505	511	rVB	38082	32337	1.00%	0.063%
7	4.942	511	515	531	rBV	2162426	1943329	60.22%	3.787%
8	5.054	534	536	548	rVB4	29292	45710	1.42%	0.089%
9	5.209	555	565	574	rVB4	46433	80248	2.49%	0.156%
10	5.284	574	579	584	rVB8	16714	21446	0.66%	0.042%
11	5.348	584	591	597	rBV4	30805	54440	1.69%	0.106%
12	5.450	605	610	622	rVB	3636050	3004624	93.11%	5.855%
13	5.642	642	646	654	rVB	16425	33025	1.02%	0.064%
14	5.776	664	671	673	rBV	24089	26744	0.83%	0.052%
15	5.894	688	693	700	rVB10	10804	21832	0.68%	0.043%
16	5.969	700	707	713	rBV	29580	33860	1.05%	0.066%
17	6.118	730	735	748	rBV	719457	759063	23.52%	1.479%
18	6.215	748	753	764	rVB	48383	65220	2.02%	0.127%
19	6.290	764	767	770	rVB4	21298	17429	0.54%	0.034%
20	6.322	770	773	779	rVB4	29023	29207	0.91%	0.057%
21	6.407	779	789	795	rBV9	30992	71310	2.21%	0.139%
22	6.471	795	801	806	rBV6	17405	39430	1.22%	0.077%
23	6.509	806	808	819	rVB2	17195	35105	1.09%	0.068%
24	6.648	826	834	836	rBV3	15015	17444	0.54%	0.034%
25	6.675	836	839	845	rVB4	22541	32135	1.00%	0.063%
26	6.739	845	851	855	rBV3	31019	42413	1.31%	0.083%
27	6.787	855	860	869	rBV	3100132	3205874	99.35%	6.248%
28	6.840	869	870	880	rVB3	62980	77170	2.39%	0.150%
29	7.012	898	902	906	rBV6	30605	46009	1.43%	0.090%
30	7.204	932	938	948	rVB6	13864	27938	0.87%	0.054%
31	7.284	948	953	956	rBV6	13818	20978	0.65%	0.041%
32	7.359	962	967	977	rBV	332294	412921	12.80%	0.805%
33	7.434	978	981	993	rVV4	28521	61364	1.90%	0.120%
34	7.552	995	1003	1012	rBV3	30674	65921	2.04%	0.128%
35	7.616	1013	1015	1018	rVV3	24942	24001	0.74%	0.047%
36	7.669	1019	1025	1035	rVB3	18661	43138	1.34%	0.084%
37	7.867	1059	1062	1068	rVB7	15198	19910	0.62%	0.039%
38	7.926	1068	1073	1076	rBV7	14208	18694	0.58%	0.036%
39	7.964	1076	1080	1084	rBV2	37791	56684	1.76%	0.110%
40	8.044	1089	1095	1098	rVB6	17112	27049	0.84%	0.053%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	8.103	1102	1106	1112	rVB	127632	130758	4.05%	0.255%
42	8.172	1112	1119	1122	rBV5	66691	130215	4.04%	0.254%
43	8.199	1122	1124	1132	rVV5	50671	72708	2.25%	0.142%
44	8.269	1132	1137	1149	rVV3	147445	245409	7.61%	0.478%
45	8.365	1149	1155	1163	rVV	127632	180727	5.60%	0.352%
46	8.434	1163	1168	1180	rVV2	58037	102882	3.19%	0.200%
47	8.547	1181	1189	1203	rVV	1984022	2071034	64.18%	4.036%
48	8.664	1207	1211	1216	rVV6	26605	44144	1.37%	0.086%
49	8.755	1225	1228	1233	rVB6	18058	21779	0.67%	0.042%
50	8.862	1239	1248	1262	rBV6	144934	351483	10.89%	0.685%
51	9.001	1269	1274	1282	rBV10	22730	46590	1.44%	0.091%
52	9.082	1282	1289	1292	rBV3	25540	35811	1.11%	0.070%
53	9.114	1292	1295	1297	rVV2	34661	34276	1.06%	0.067%
54	9.135	1297	1299	1310	rVB6	51975	83295	2.58%	0.162%
55	9.285	1316	1327	1334	rBV6	56275	124213	3.85%	0.242%
56	9.424	1348	1353	1361	rBV3	96193	113361	3.51%	0.221%
57	9.499	1362	1367	1370	rBV7	14291	21071	0.65%	0.041%
58	9.552	1374	1377	1380	rBV4	16069	19805	0.61%	0.039%
59	9.622	1387	1390	1394	rVB6	14827	17179	0.53%	0.033%
60	9.691	1395	1403	1416	rBV	695209	1171365	36.30%	2.283%
61	9.798	1416	1423	1427	rBV	2626037	2861857	88.69%	5.577%
62	9.953	1447	1452	1467	rBV2	201072	359255	11.13%	0.700%
63	10.082	1469	1476	1484	rVV4	88007	222078	6.88%	0.433%
64	10.226	1498	1503	1507	rVB	205141	194633	6.03%	0.379%
65	10.338	1521	1524	1530	rBV8	27218	46582	1.44%	0.091%
66	10.478	1541	1550	1563	rBV	1229526	2402800	74.46%	4.683%
67	10.606	1570	1574	1577	rBV2	80033	83366	2.58%	0.162%
68	10.638	1577	1580	1586	rVB	307916	283059	8.77%	0.552%
69	10.718	1590	1595	1604	rBV2	197064	305041	9.45%	0.594%
70	10.820	1610	1614	1617	rBV	102265	109929	3.41%	0.214%
71	10.857	1617	1621	1625	rVV4	119508	158930	4.93%	0.310%
72	10.889	1625	1627	1633	rVB	73108	75205	2.33%	0.147%
73	10.975	1638	1643	1647	rVV	1063243	1019856	31.60%	1.988%
74	11.018	1648	1651	1661	rVB	55596	135697	4.21%	0.264%
75	11.178	1676	1681	1685	rBV	1458374	1591620	49.32%	3.102%
76	11.216	1685	1688	1702	rVB2	1259493	2140922	66.35%	4.172%
77	11.344	1709	1712	1715	rBV	139490	133809	4.15%	0.261%
78	11.440	1722	1730	1742	rBV	2376426	3226913	100.00%	6.289%
79	11.558	1747	1752	1755	rBV2	110089	144940	4.49%	0.282%
80	11.595	1756	1759	1766	rBV6	58631	130457	4.04%	0.254%
81	11.745	1781	1787	1793	rBV	1339511	1583861	49.08%	3.087%
82	11.970	1823	1829	1835	rBV	1816944	2246500	69.62%	4.378%
83	12.045	1836	1843	1847	rBV3	468128	961941	29.81%	1.875%
84	12.077	1847	1849	1855	rVB2	275957	306007	9.48%	0.596%
85	12.189	1865	1870	1880	rVB3	199017	336611	10.43%	0.656%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	12.307	1887	1892	1903	rVB6	149485	271924	8.43%	0.530%
87	12.430	1911	1915	1922	rVB3	91661	134269	4.16%	0.262%
88	12.515	1926	1931	1936	rBV6	98391	203175	6.30%	0.396%
89	12.687	1956	1963	1978	rBV	1257215	2047904	63.46%	3.991%
90	12.852	1990	1994	2003	rVB10	78307	160702	4.98%	0.313%
91	12.943	2003	2011	2027	rBV3	958827	2392619	74.15%	4.663%
92	13.072	2027	2035	2039	rVV5	327690	850533	26.36%	1.658%
93	13.109	2040	2042	2054	rVB2	338484	527778	16.36%	1.029%
94	13.227	2059	2064	2078	rVB8	144079	417566	12.94%	0.814%
95	13.350	2079	2087	2098	rBV2	651709	1644495	50.96%	3.205%
96	13.446	2099	2105	2118	rVB5	158997	357787	11.09%	0.697%
97	13.660	2139	2145	2151	rVB6	194430	360612	11.18%	0.703%
98	13.922	2186	2194	2205	rBV3	559689	1295762	40.15%	2.525%
99	14.200	2239	2246	2254	rVB2	285991	584261	18.11%	1.139%
100	14.441	2284	2291	2296	rBV8	164296	430074	13.33%	0.838%

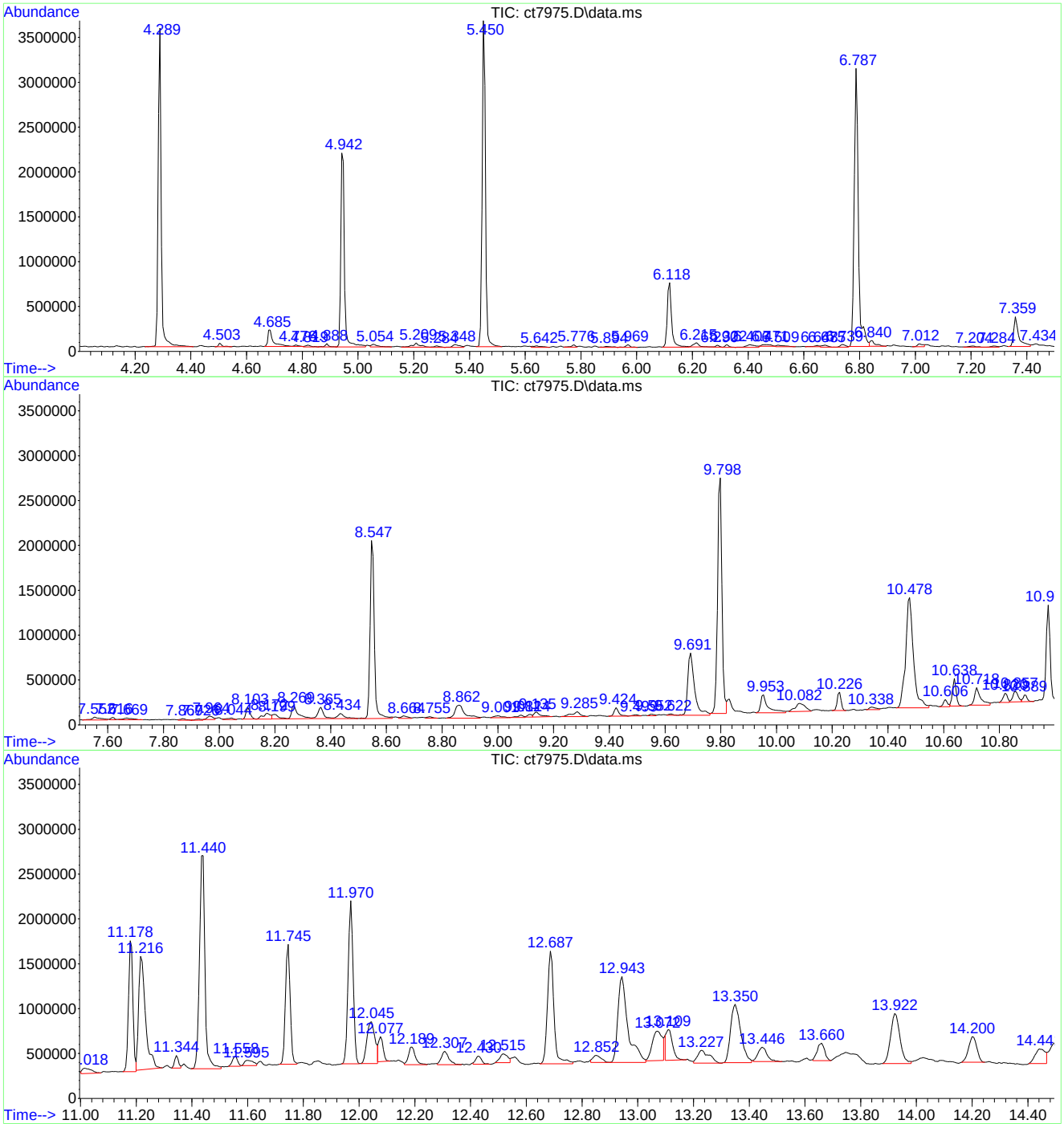
Sum of corrected areas: 51313446

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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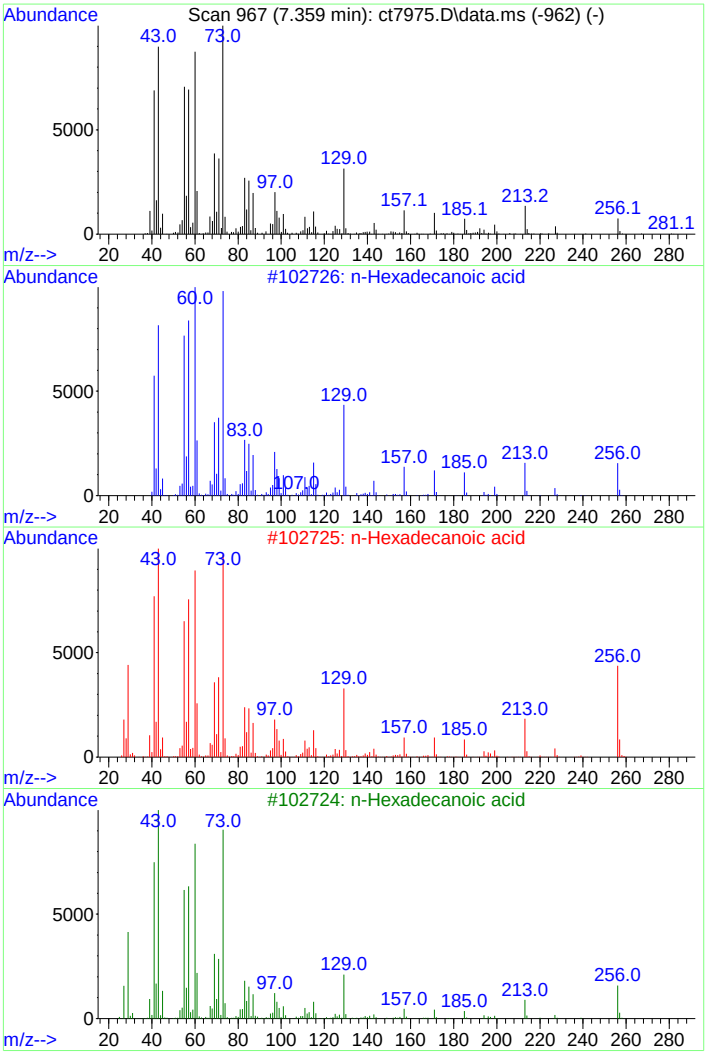
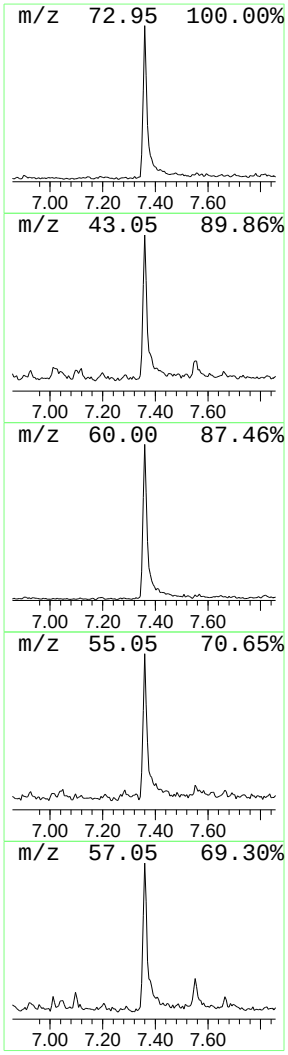
Peak Number 1 n-Hexadecanoic acid Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.359	5.15 ppm	412921	Phenanthrene-d10b	6.787

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	94
4	Tridecanoic acid	214	C13H26O2	000638-53-9	91
5	Tridecanoic acid	214	C13H26O2	000638-53-9	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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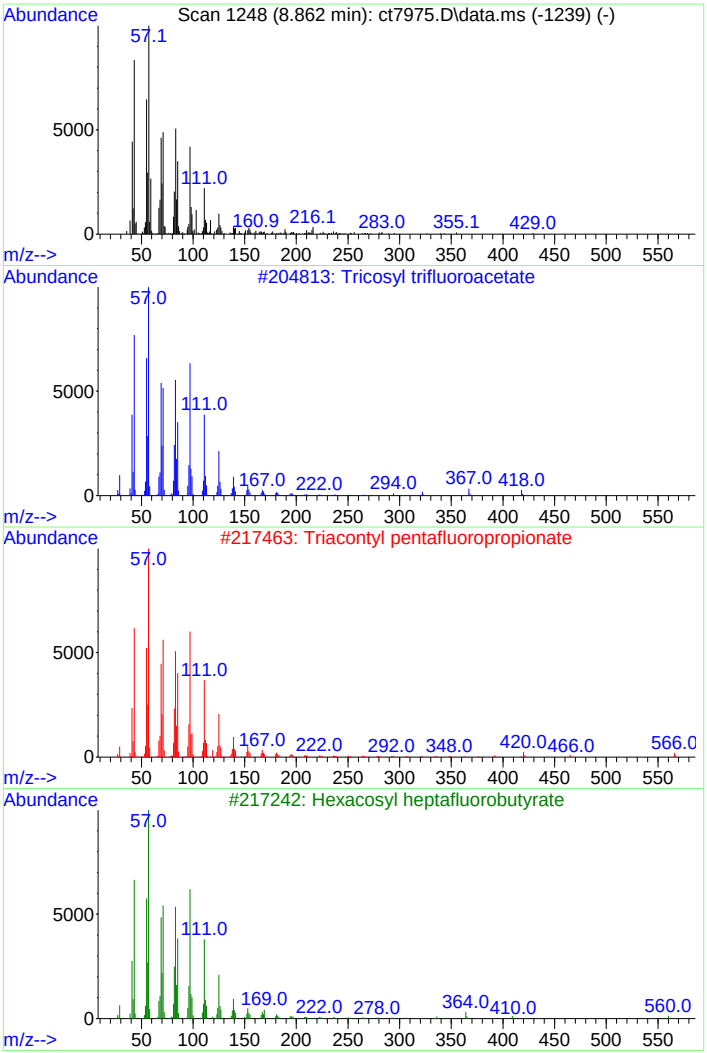
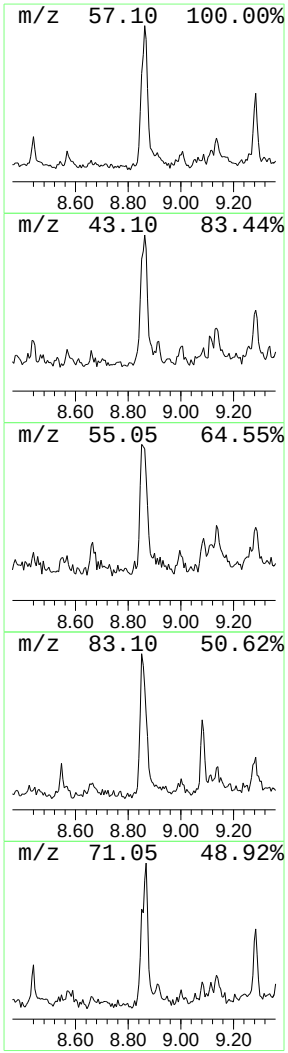
Peak Number 2 system artifact Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.862	4.91 ppm	351483	Chrysene-d12	9.798

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricosyl trifluoroacetate	436	C25H47F3O2	1000351-75-1	87
2	Triacontyl pentafluoropropionate	584	C33H61F5O2	1000351-80-0	87
3	Hexacosyl heptafluorobutyrate	578	C30H53F7O2	1000351-83-3	87
4	Hexacosyl trifluoroacetate	478	C28H53F3O2	1000351-75-0	87
5	Tetracosyl heptafluorobutyrate	550	C28H49F7O2	1000351-83-7	87





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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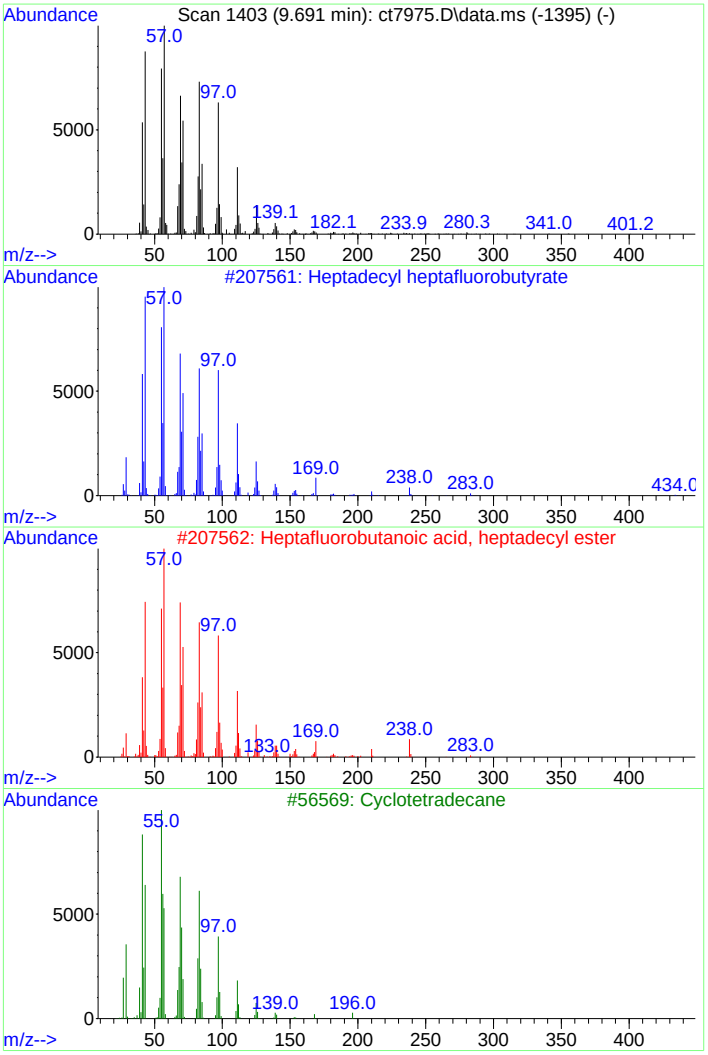
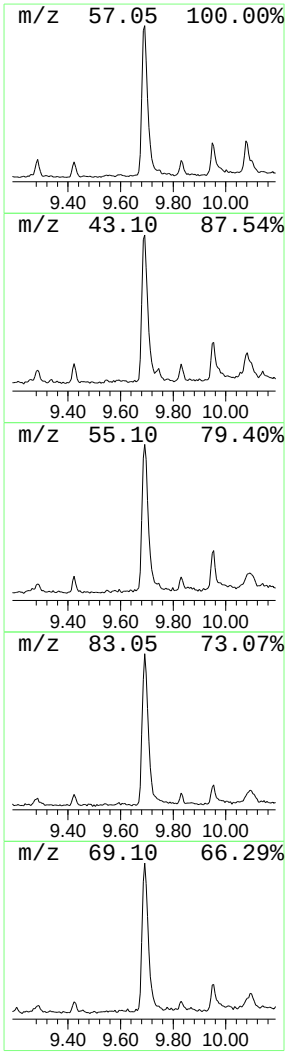
Peak Number 3 system artifact Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.691	16.37 ppm	1171370	Chrysene-d12	9.798

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	1000351-82-9	94
2	Heptafluorobutanoic acid, heptad...	452	C21H35F7O2	1000282-97-3	94
3	Cyclotetradecane	196	C14H28	000295-17-0	92
4	Hexadecyl heptafluorobutyrate	438	C20H33F7O2	1000351-82-7	91
5	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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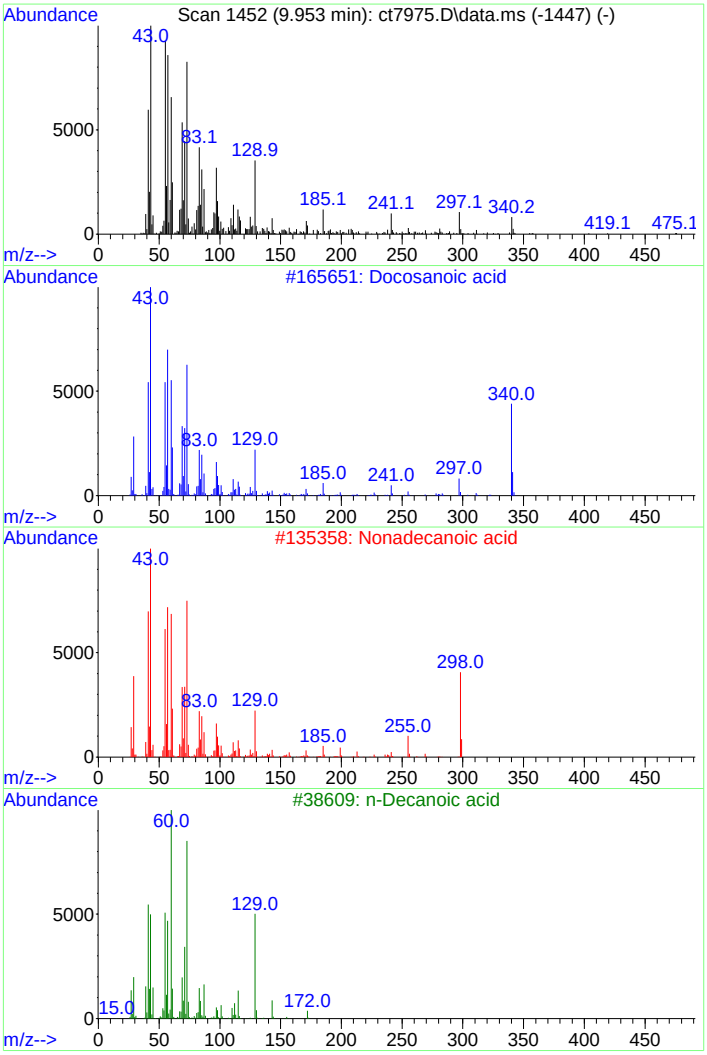
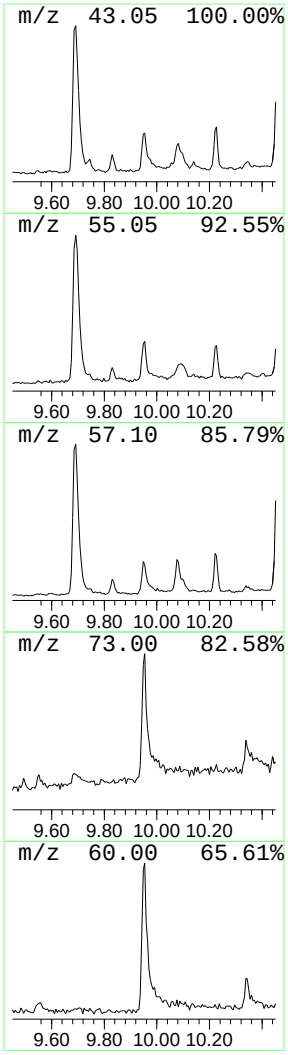
Peak Number 4 Unknown acid Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.953	5.02 ppm	359255	Chrysene-d12a	9.798

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosanoic acid	340	C22H44O2	000112-85-6	99
2	Nonadecanoic acid	298	C19H38O2	000646-30-0	60
3	n-Decanoic acid	172	C10H20O2	000334-48-5	50
4	Oxalic acid, octadecyl propyl ester	384	C23H44O4	1000309-27-0	50
5	Oxalic acid, allyl octadecyl ester	382	C23H42O4	1000309-24-5	46





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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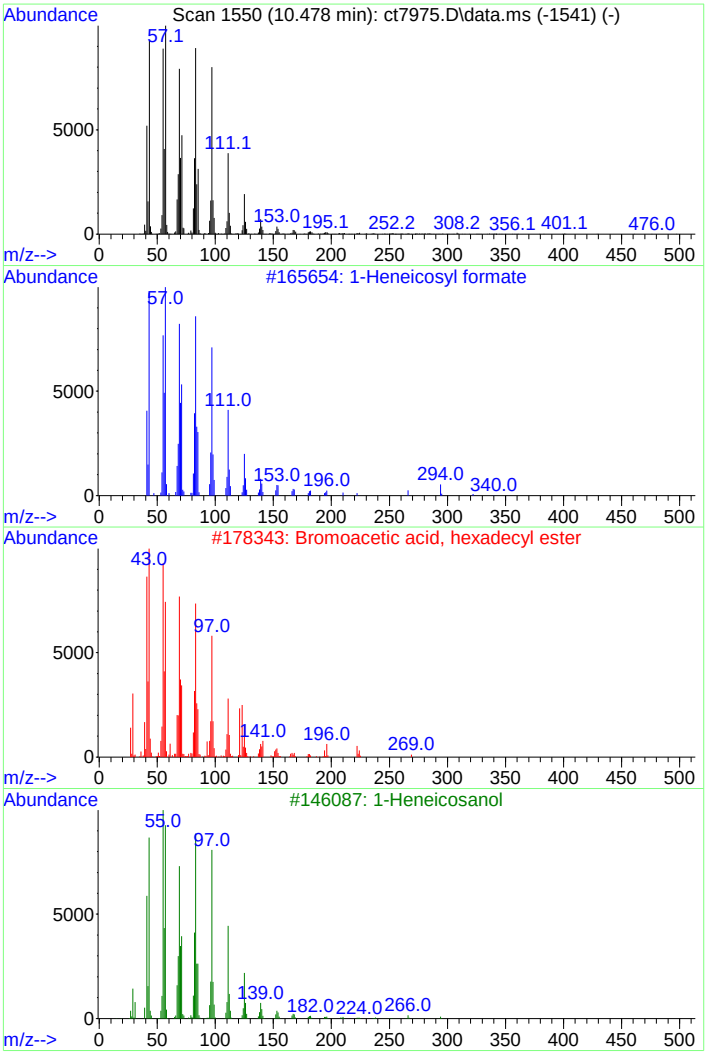
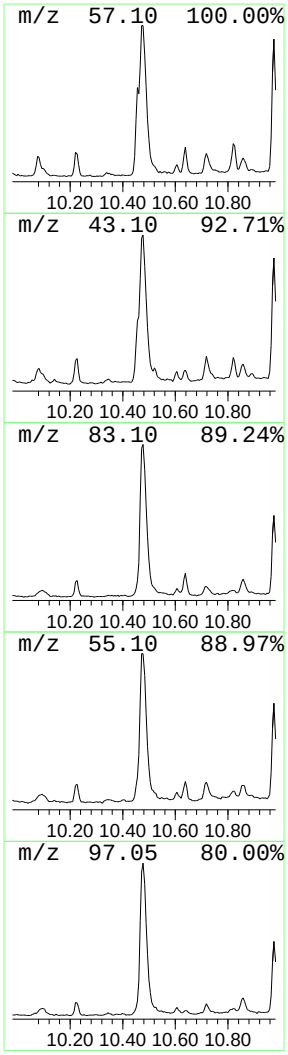
Peak Number 5 system artifact Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.478	33.58 ppm	2402800	Chrysene-d12a	9.798

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosyl formate	340	C22H44O2	077899-03-7	95
2	Bromoacetic acid, hexadecyl ester	362	C18H35BrO2	005454-48-8	94
3	1-Heneicosanol	312	C21H44O	015594-90-8	94
4	Behenic alcohol	326	C22H46O	000661-19-8	94
5	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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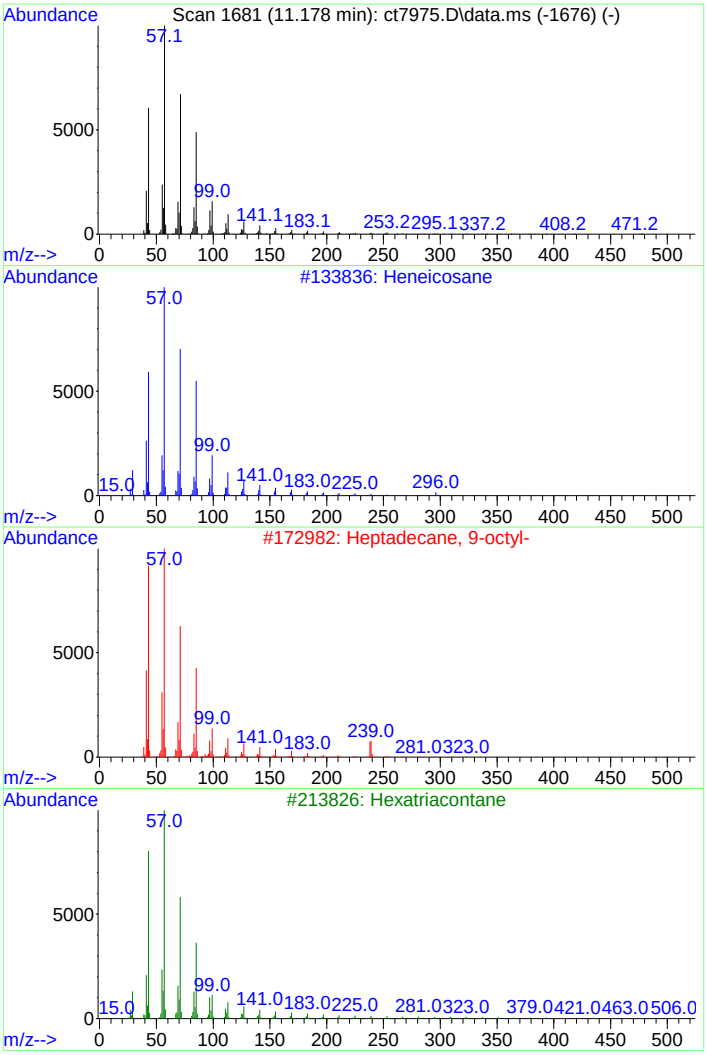
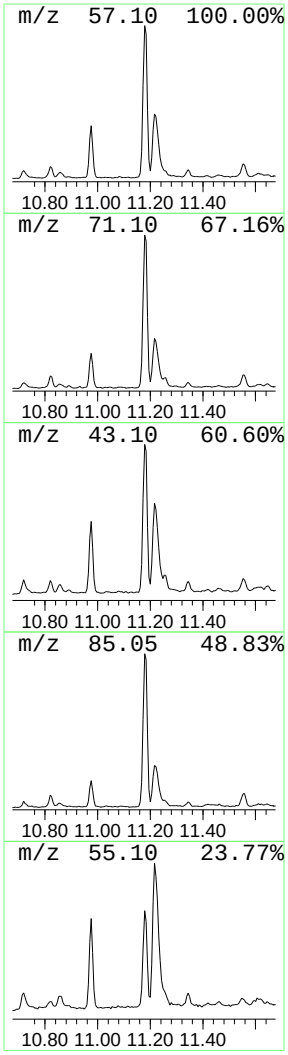
Peak Number 6 alkane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.178	19.73 ppm	1591620	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	91
2	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	91
3	Hexatriacontane	507	C36H74	000630-06-8	91
4	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	91
5	Octadecane	254	C18H38	000593-45-3	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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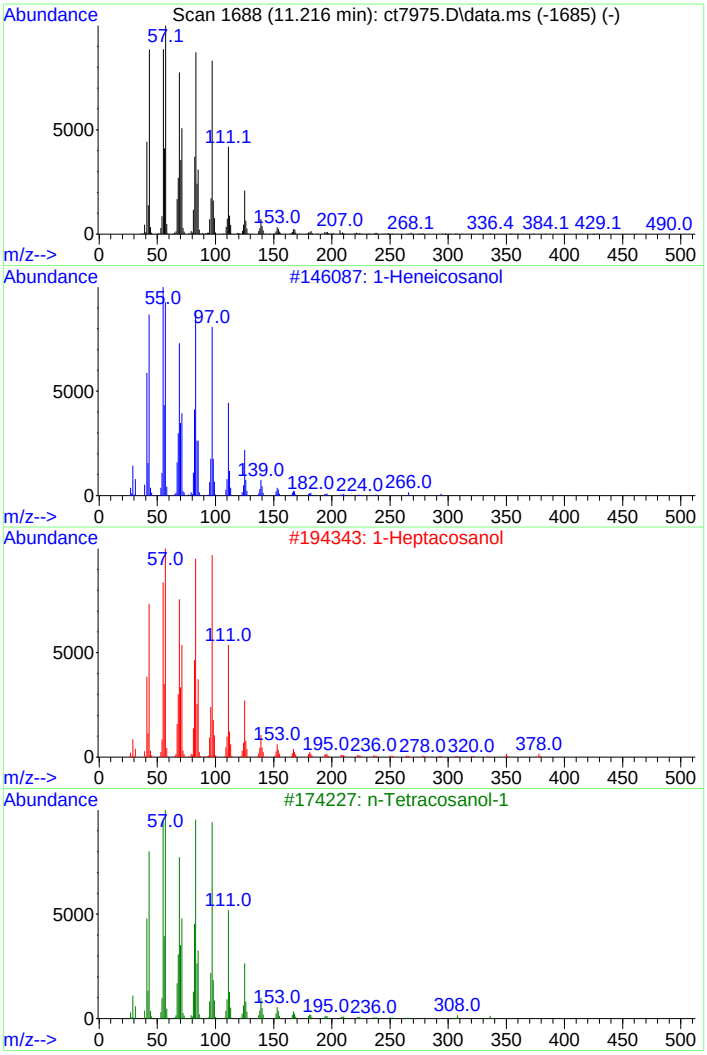
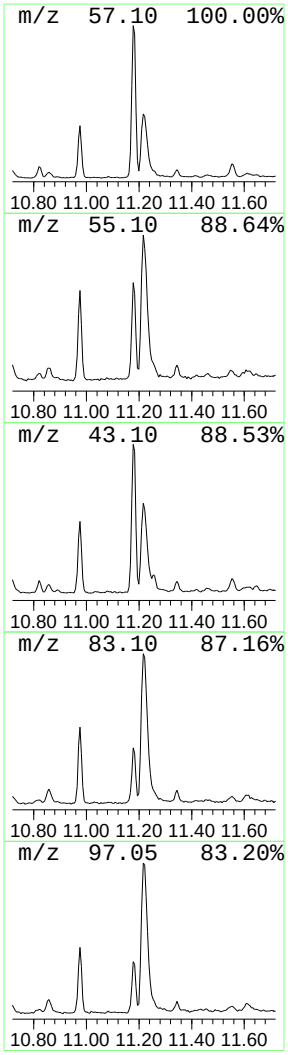
Peak Number 7 Heneicosanol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.216	26.54 ppm	2140920	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	94
2	1-Heptacosanol	396	C27H56O	002004-39-9	93
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	93
4	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	91
5	Cyclotetracosane	336	C24H48	000297-03-0	90





Library Search Compound Report

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Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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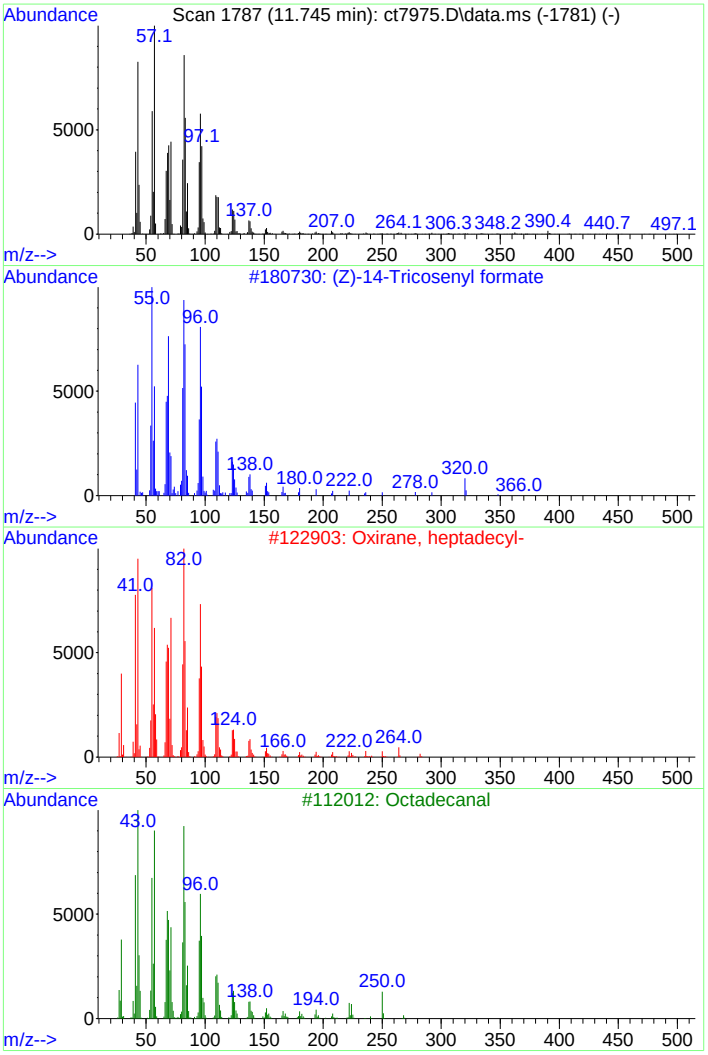
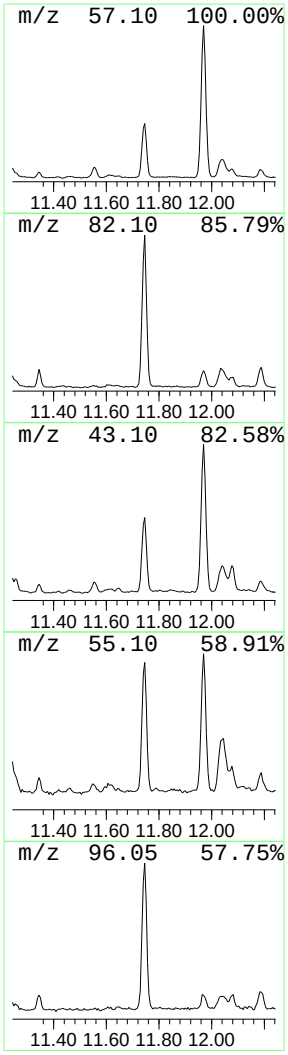
Peak Number 8 system artifact Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.745	19.63 ppm	1583860	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	94
2	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	91
3	Octadecanal	268	C18H36O	000638-66-4	91
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
5	12-Octadecenal	266	C18H34O	056554-91-7	91





Library Search Compound Report

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Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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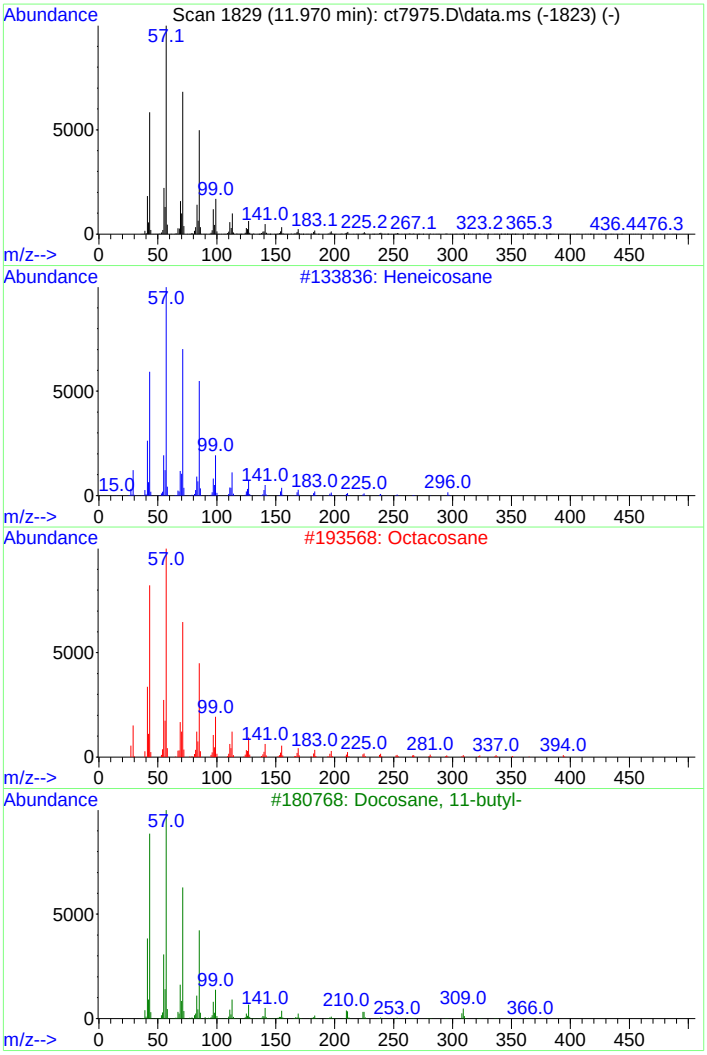
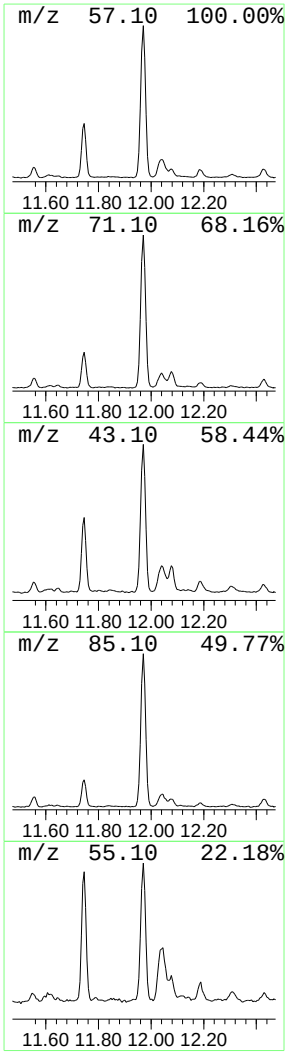
Peak Number 9 alkane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.970	27.85 ppm	2246500	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	91
2	Octacosane	394	C28H58	000630-02-4	91
3	Docosane, 11-butyl-	366	C26H54	013475-76-8	91
4	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	91
5	Heneicosane, 11-(1-ethylpropyl)-	366	C26H54	055282-11-6	91





Library Search Compound Report

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Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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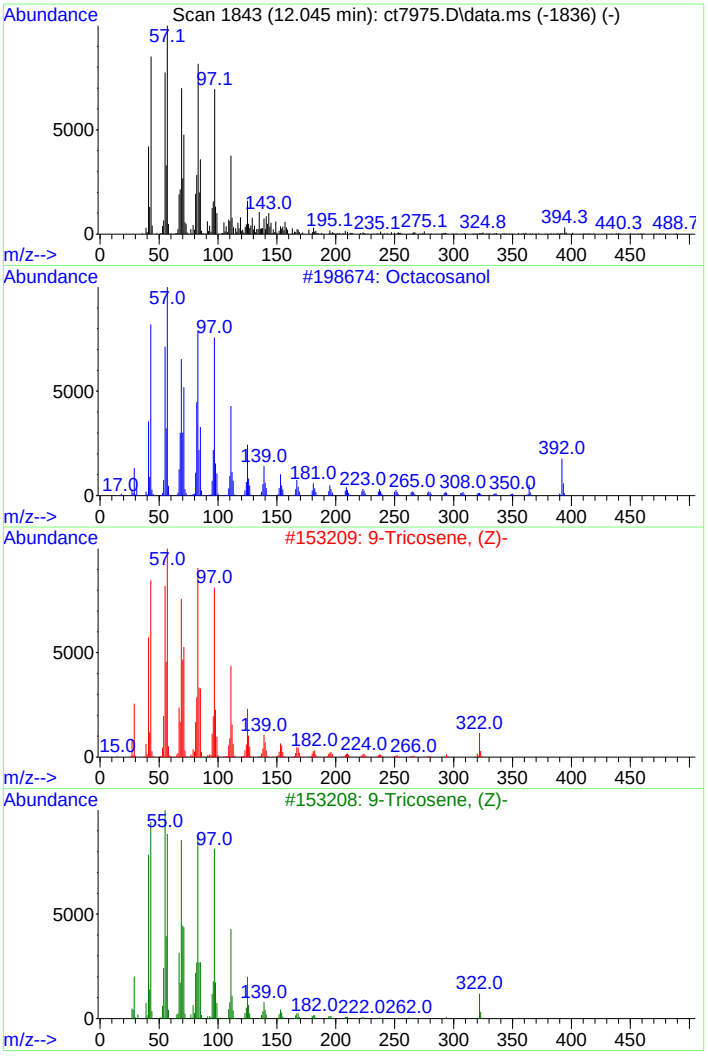
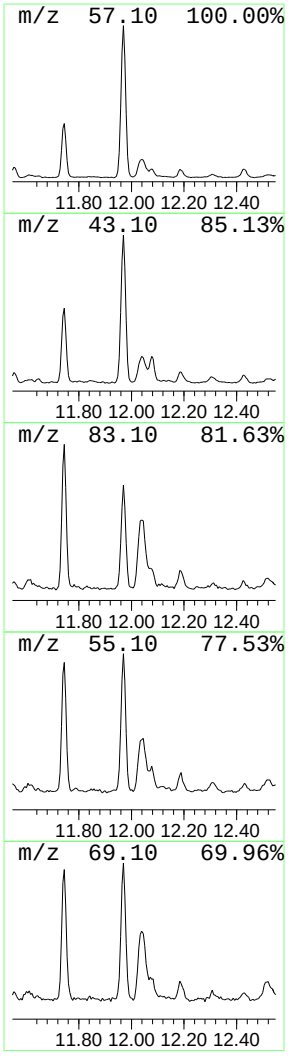
Peak Number 10 unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.045	11.92 ppm	961941	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosanol	410	C28H58O	000557-61-9	94
2	9-Tricosene, (Z)-	322	C23H46	027519-02-4	92
3	9-Tricosene, (Z)-	322	C23H46	027519-02-4	90
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	90
5	1-Heptacosanol	396	C27H56O	002004-39-9	90





Library Search Compound Report

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Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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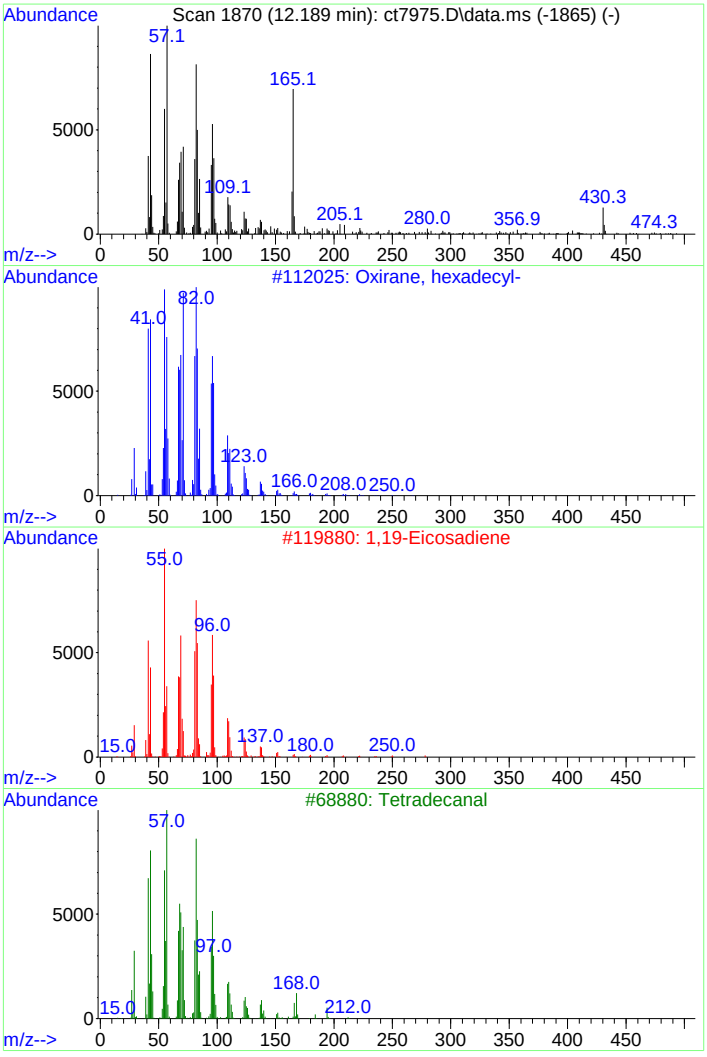
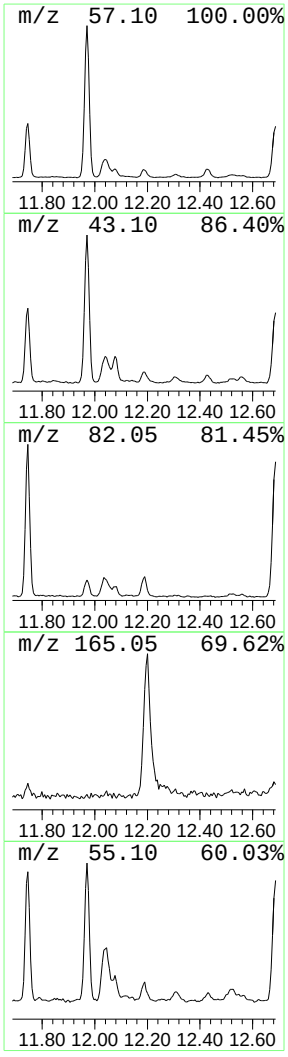
Peak Number 11 unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.189	4.17 ppm	336611	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	76
2	1,19-Eicosadiene	278	C20H38	014811-95-1	70
3	Tetradecanal	212	C14H28O	000124-25-4	64
4	18-Nonadecen-1-ol	282	C19H38O	1000142-89-2	58
5	Bicyclo[4.1.0]heptane, 7-butyl-	152	C11H20	018645-10-8	55





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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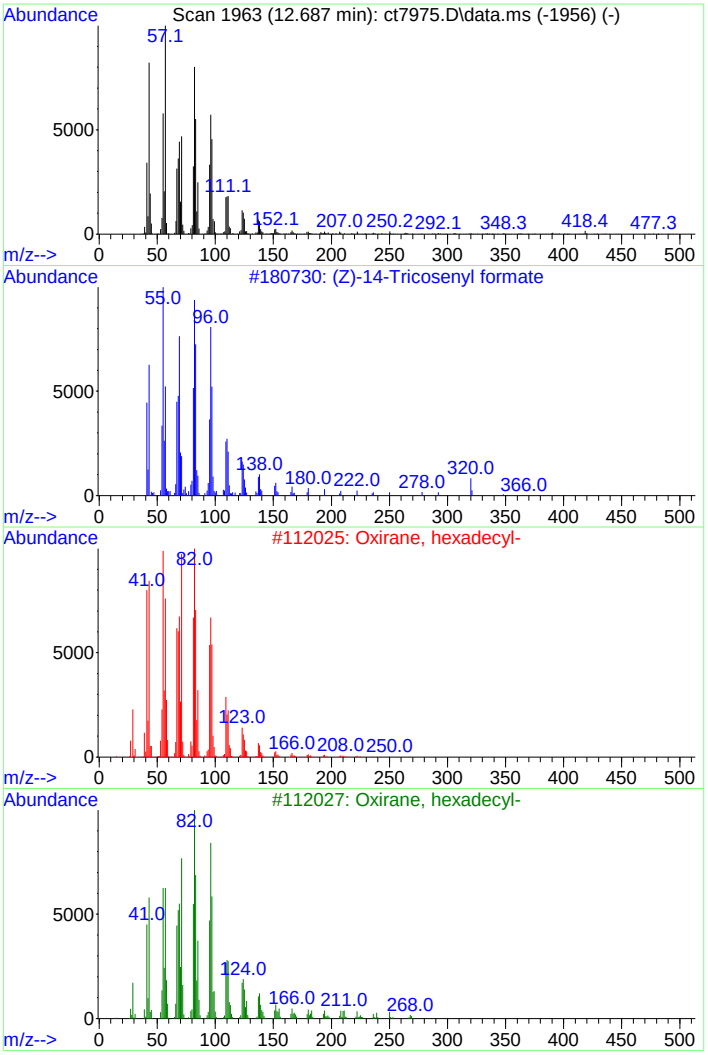
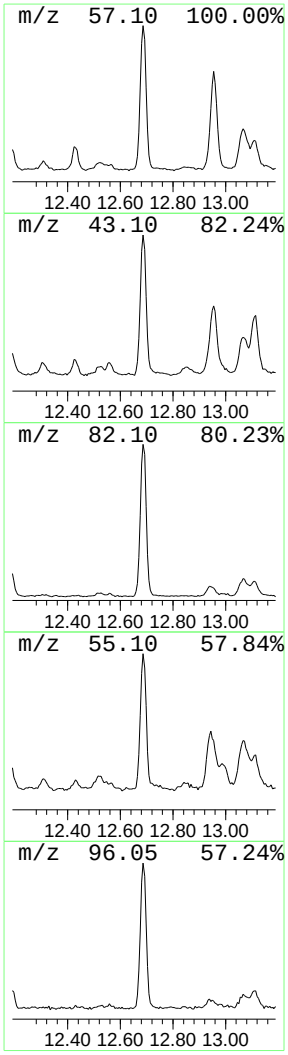
Peak Number 12 Oxirane, hexadecyl Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.687	25.39 ppm	2047900	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	95
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
3	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	90
5	Octadecanal	268	C18H36O	000638-66-4	87





Library Search Compound Report

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Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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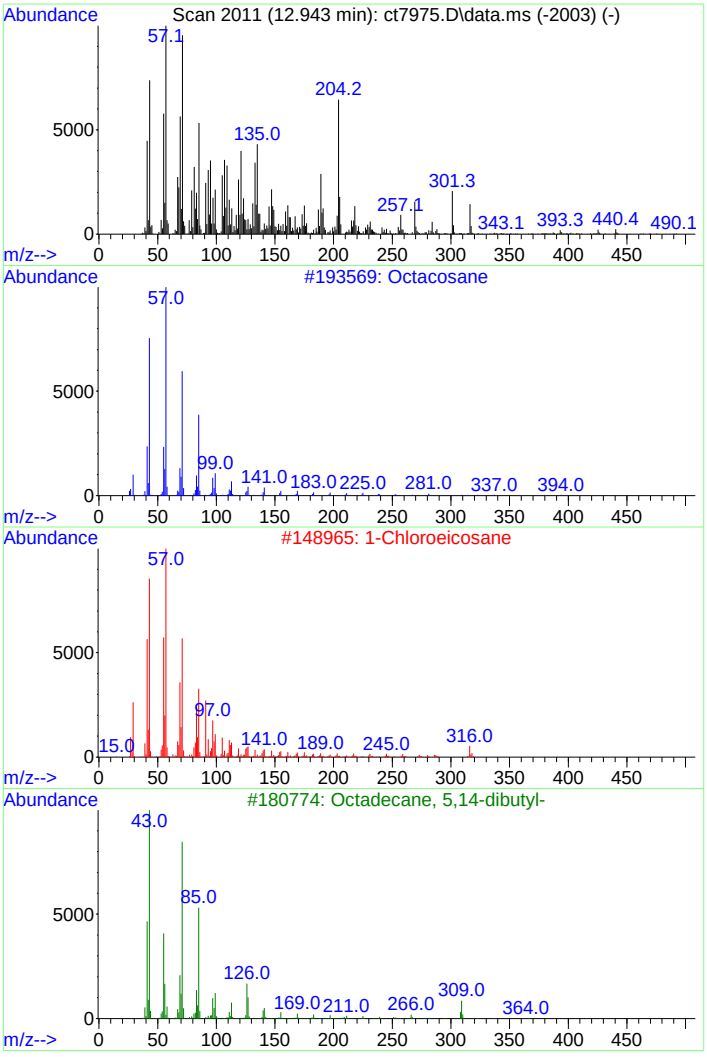
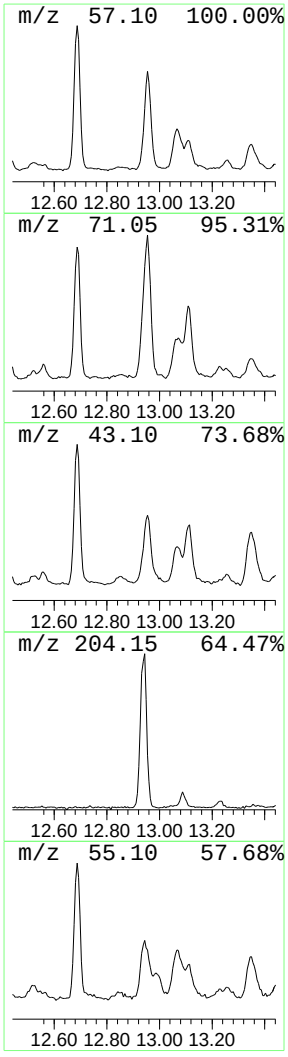
Peak Number 13 unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.943	29.66 ppm	2392620	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	91
2	1-Chloroeicosane	316	C20H41Cl	042217-02-7	42
3	Octadecane, 5,14-dibutyl-	366	C26H54	055282-13-8	38
4	Eicosane, 10-methyl-	296	C21H44	054833-23-7	30
5	Heneicosane	296	C21H44	000629-94-7	30





Library Search Compound Report

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Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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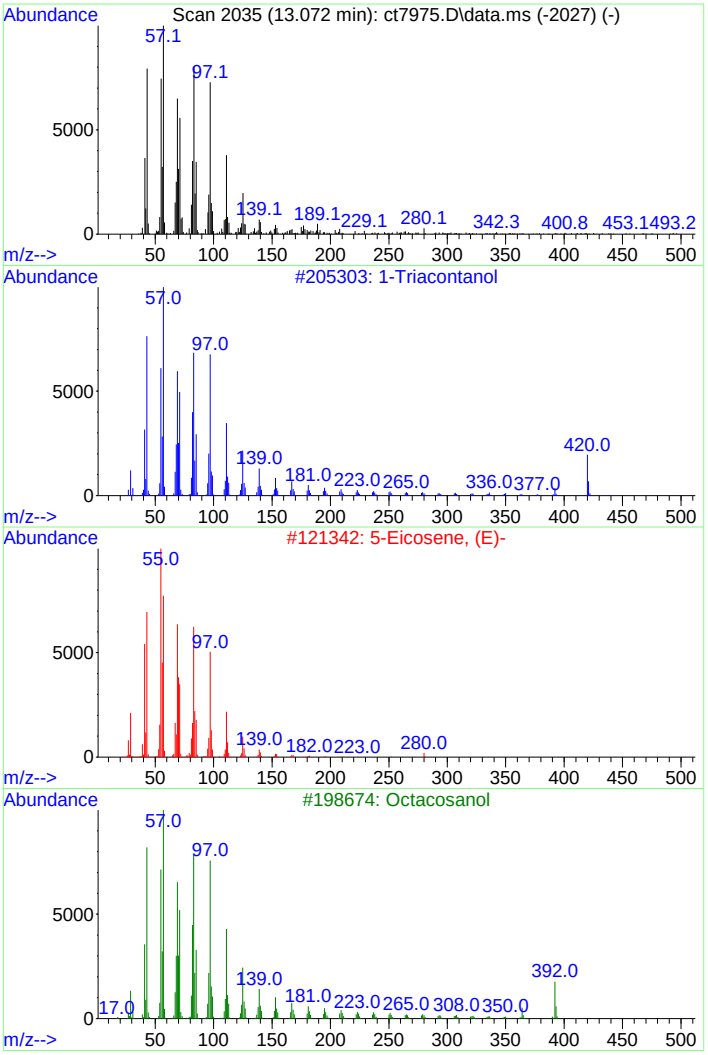
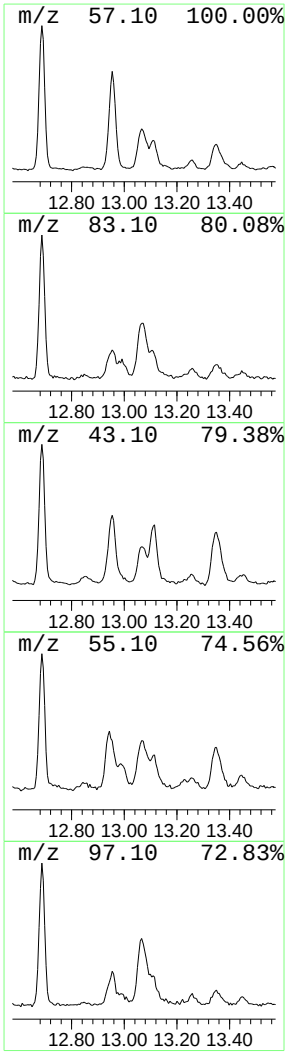
Peak Number 14 unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.072	10.54 ppm	850533	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Triacontanol	438	C30H62O	000593-50-0	96
2	5-Eicosene, (E)-	280	C20H40	074685-30-6	95
3	Octacosanol	410	C28H58O	000557-61-9	95
4	1-Heptacosanol	396	C27H56O	002004-39-9	93
5	Octadecane, 1-(ethenyloxy)-	296	C20H40O	000930-02-9	91





Library Search Compound Report

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Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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Peak Number 15 system artifact Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.109	6.54 ppm	527778	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptacosanone	394	C27H54O	007796-19-2	72
2	2-Nonadecanone	282	C19H38O	000629-66-3	40
3	2-Tridecanone	198	C13H26O	000593-08-8	37
4	2-Heptadecanone	254	C17H34O	002922-51-2	37
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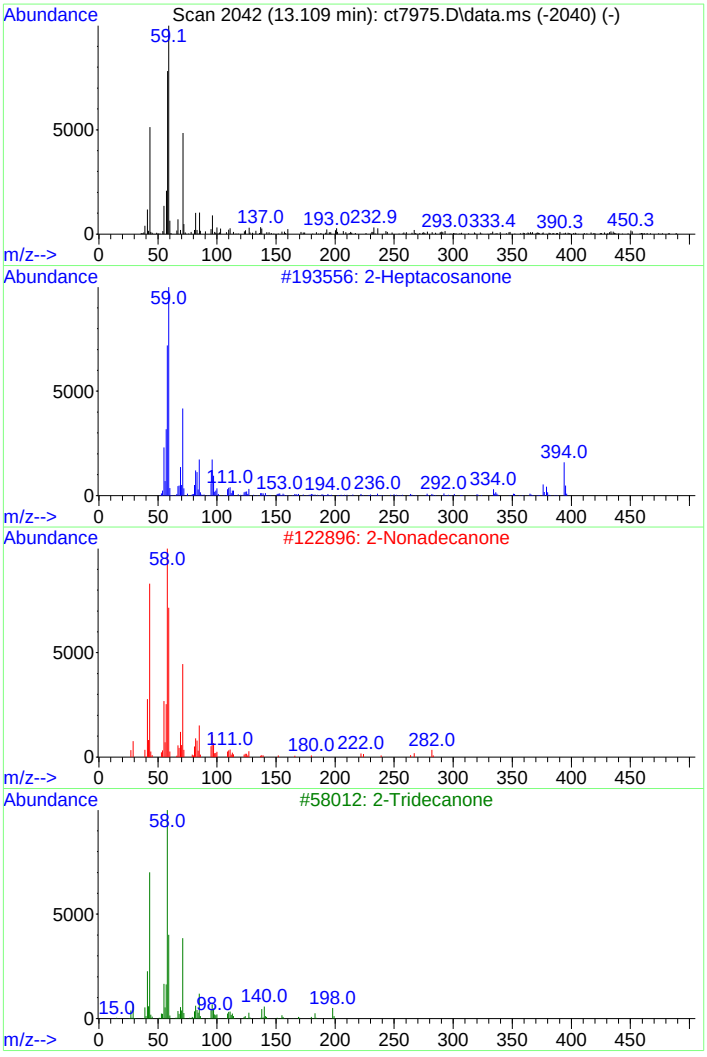

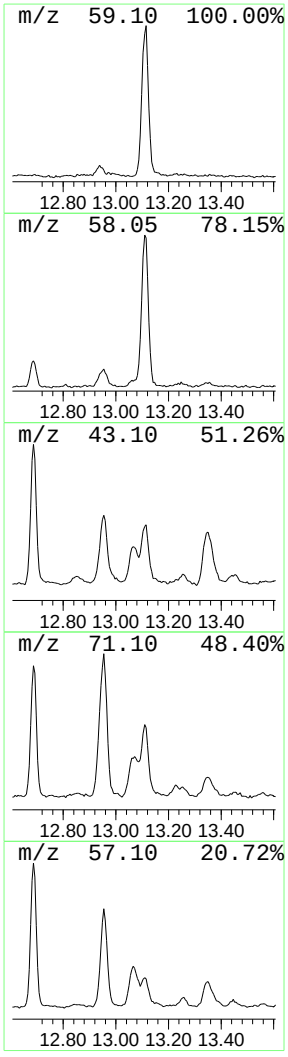

Library Search Compound Report

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Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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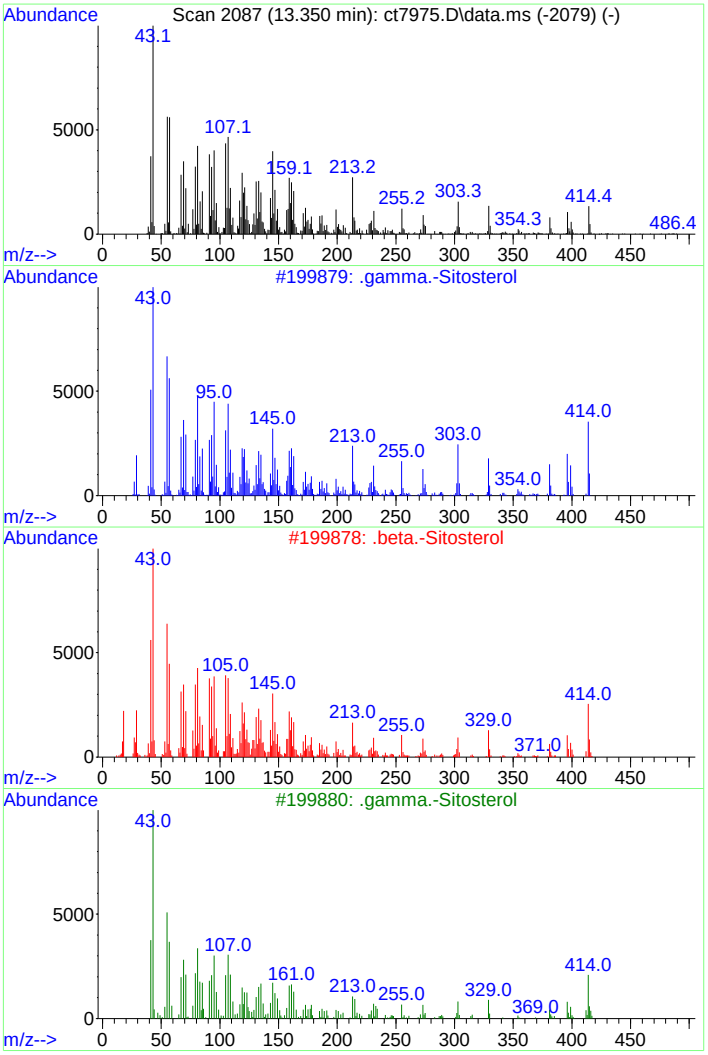
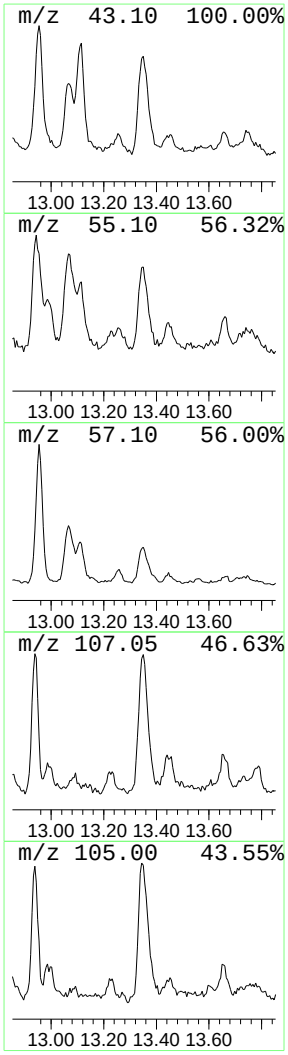
Peak Number 16 gamma Sitosterol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.350	20.38 ppm	1644500	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
3	.gamma.-Sitosterol	414	C29H50O	000083-47-6	93
4	.beta.-Sitosterol	414	C29H50O	000083-46-5	93
5	Campesterol	400	C28H48O	000474-62-4	53





Library Search Compound Report

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Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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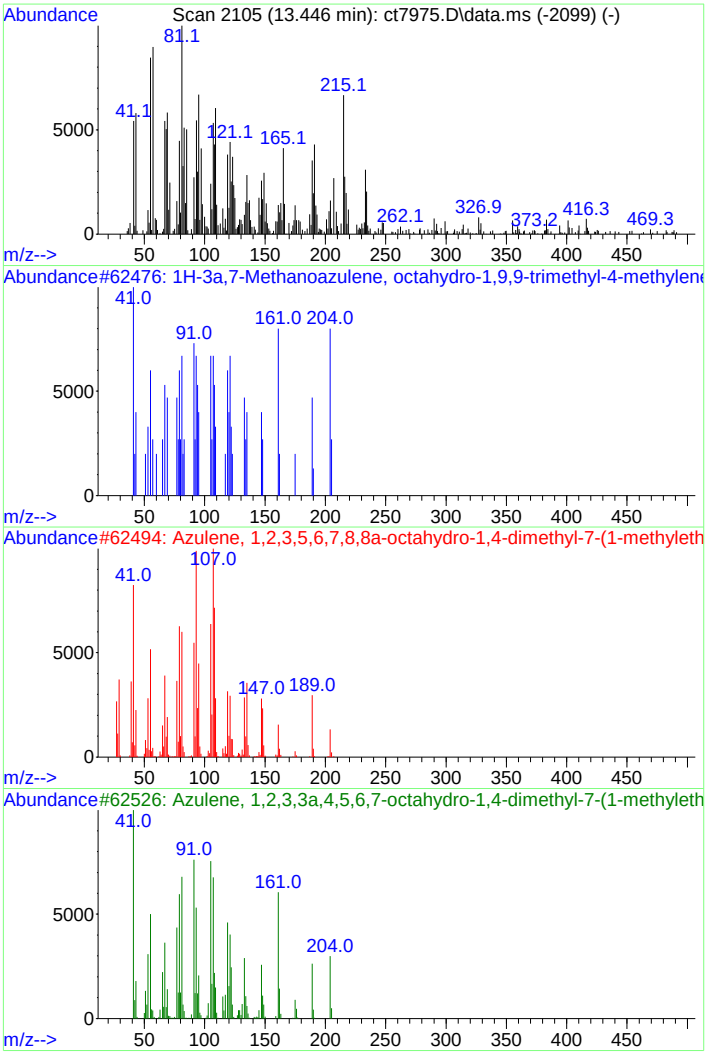
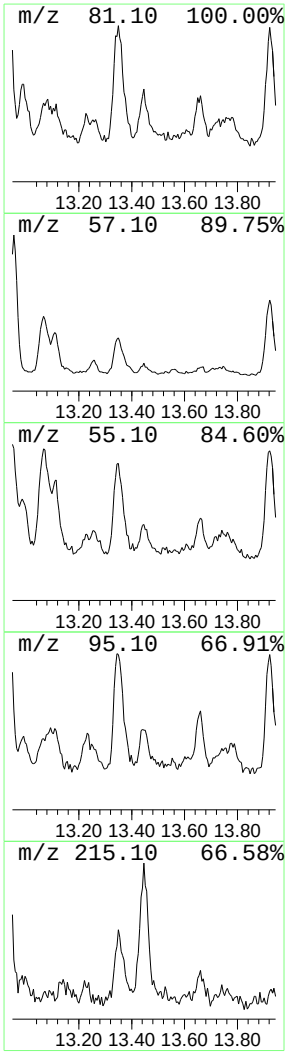
Peak Number 17 unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.446	4.44 ppm	357787	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-3a,7-Methanoazulene, octahydr...	204	C15H24	000508-55-4	52
2	Azulene, 1,2,3,5,6,7,8,8a-octahy...	204	C15H24	003691-11-0	48
3	Azulene, 1,2,3,3a,4,5,6,7-octahy...	204	C15H24	022567-17-5	40
4	Cyclodeca[b]furan-2(3H)-one, 3a,...	234	C15H22O2	002225-79-8	35
5	21.xi-methyl-17-isocholest-5-en-...	402	C27H46O2	1000252-40-0	35





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

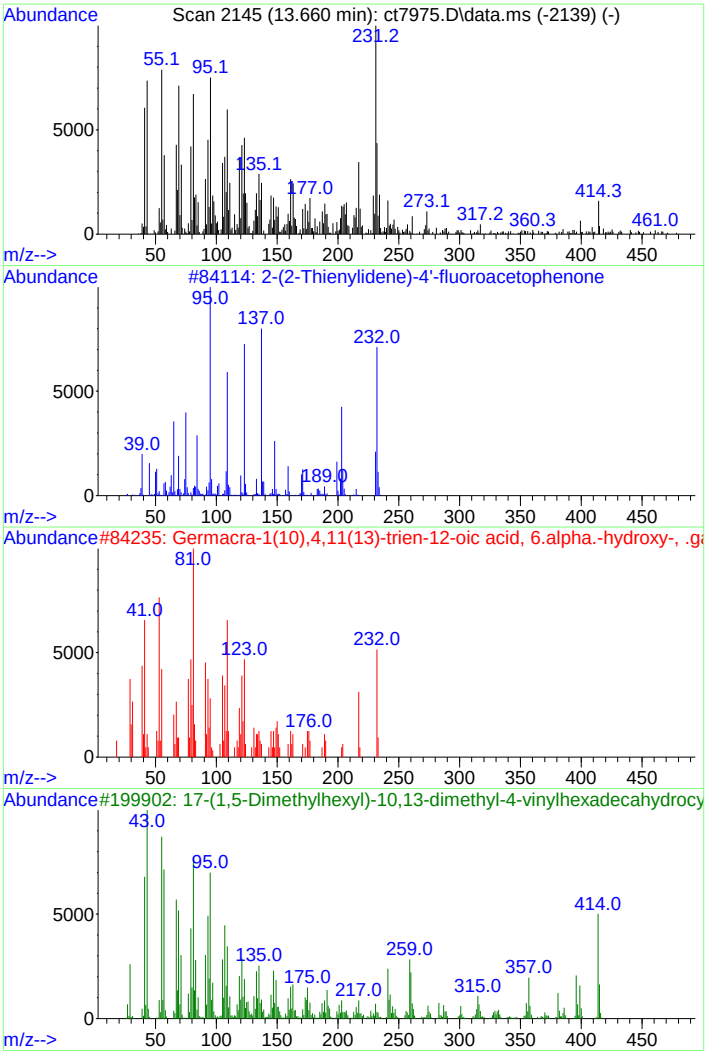
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

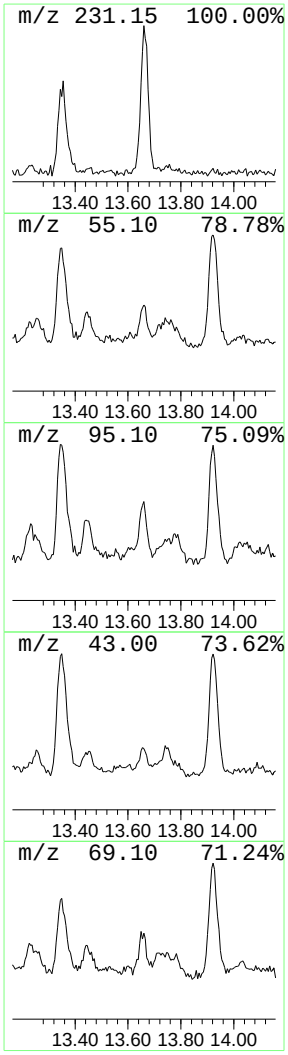
****

Peak Number 18 unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.660	4.47 ppm	360612	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-(2-Thienylidene)-4'-fluoroacet...	232	C13H9FOS	000366-81-4	47
2	Germacra-1(10),4,11(13)-trien-12...	232	C15H20O2	000553-21-9	42
3	17-(1,5-Dimethylhexyl)-10,13-dim...	414	C29H50O	1000210-86-9	30
4	Ergost-25-ene-3,5,6-triol, (3.be...	432	C28H48O3	056143-28-3	27
5	Quinoline, 2-[2-(3-pyridyl)ethen...	232	C16H12N2	001586-51-2	22





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

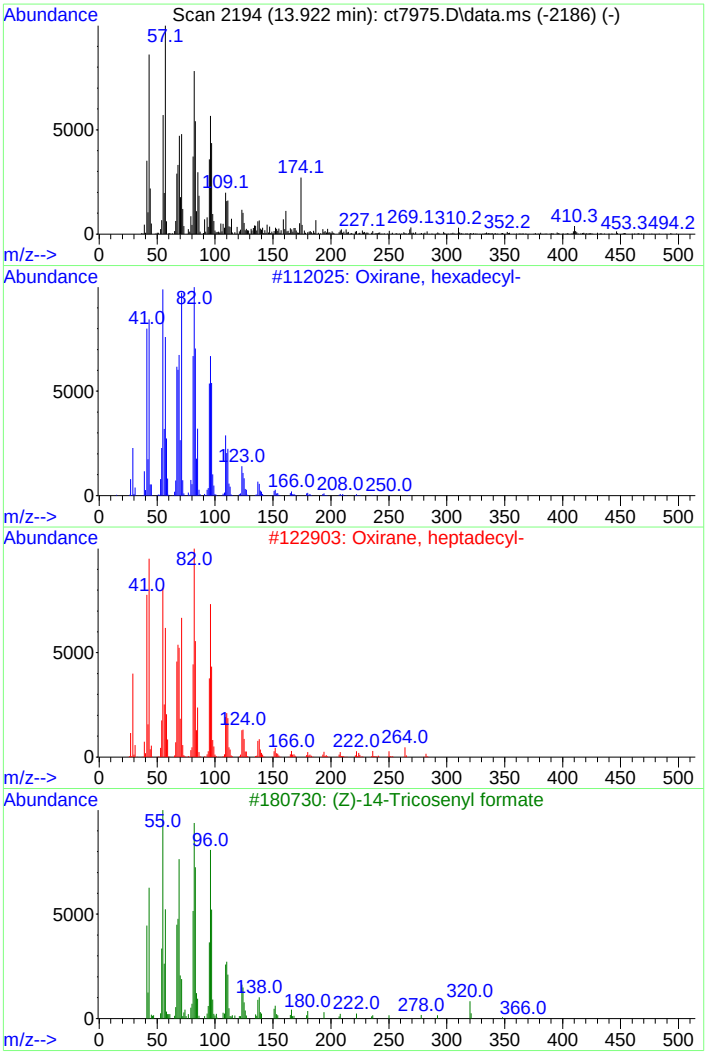
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

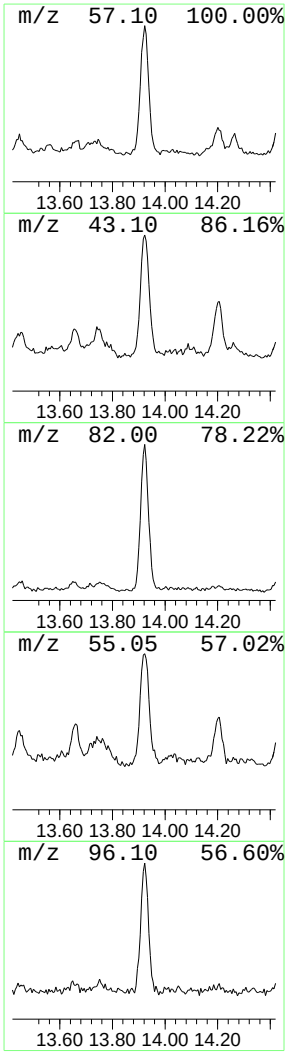
****

Peak Number 19 alkane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.922	16.06 ppm	1295760	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	90
2	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	90
3	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	89
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	87
5	Tetradecanal	212	C14H28O	000124-25-4	87





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

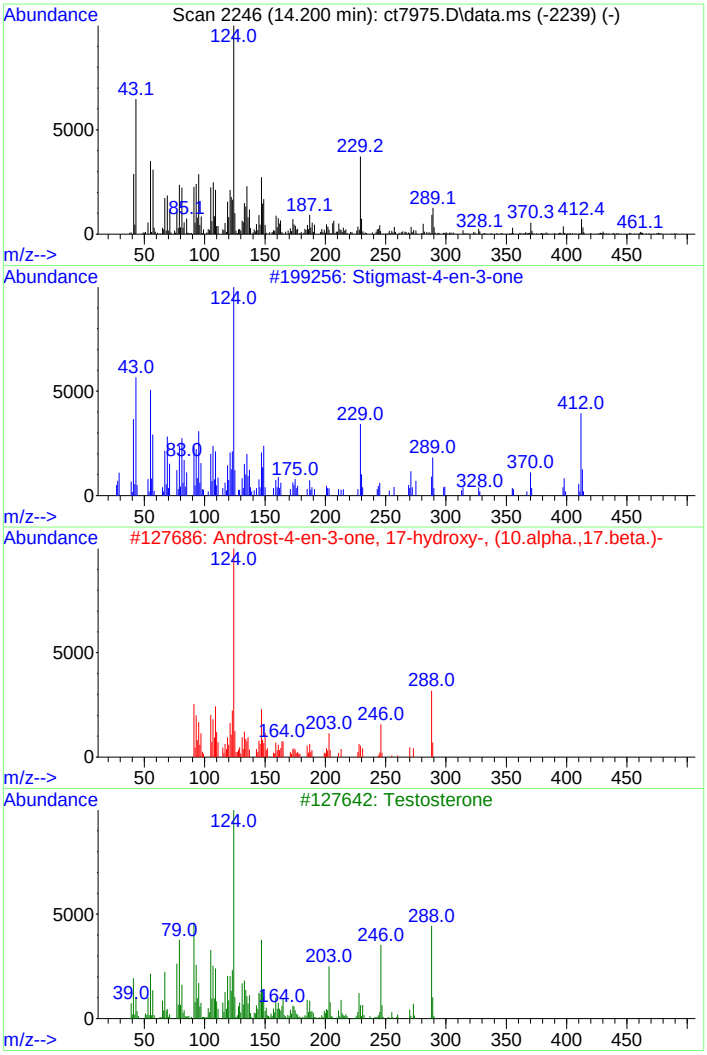
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

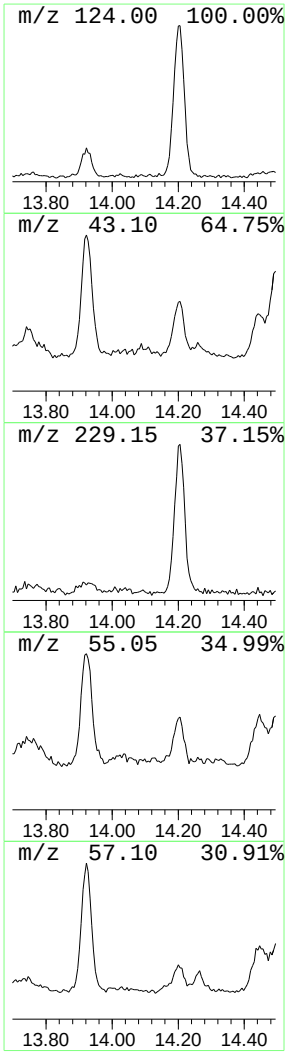
****

Peak Number 20 Stigmast-en--one Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.200	7.24 ppm	584261	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	93
2	Androst-4-en-3-one, 17-hydroxy-,...	288	C19H28O2	000604-39-7	55
3	Testosterone	288	C19H28O2	000058-22-0	52
4	Pregn-4-ene-3,20-dione, 14-methyl-	328	C22H32O2	055162-96-4	52
5	Testosterone	288	C19H28O2	000058-22-0	52





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

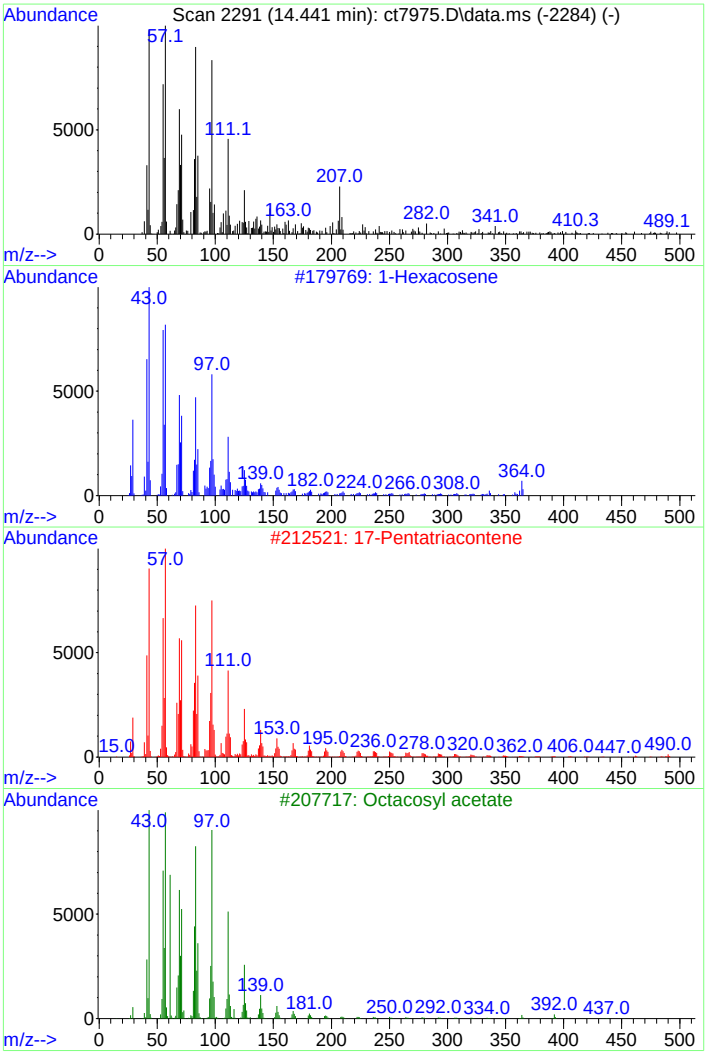
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

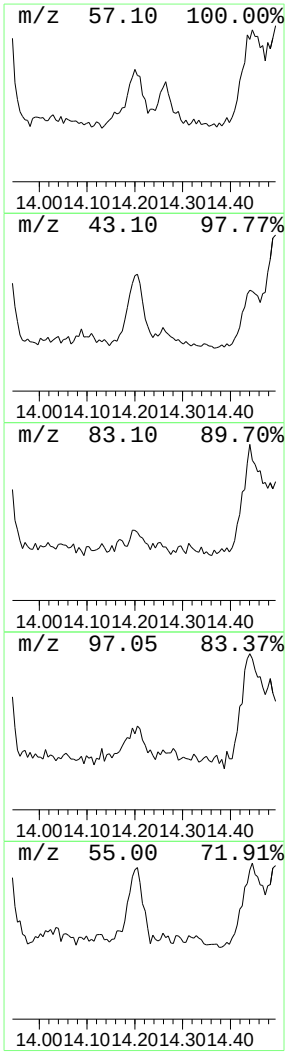
****

Peak Number 21 unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.441	5.33 ppm	430074	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexacosene	364	C26H52	018835-33-1	93
2	17-Pentatriacontene	491	C35H70	006971-40-0	90
3	Octacosyl acetate	452	C30H60O2	018206-97-8	87
4	1-Hexacosanol	382	C26H54O	000506-52-5	81
5	Tricosyl trifluoroacetate	436	C25H47F3O2	1000351-75-1	70





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7975.D
Acq On : 03 Jul 2024 01:12 pm
Operator : karimam
Sample : jd91339-1
Misc : op55800,ect375,15.5,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
n-Hexadecanoic ...	7.359	5.2	ppm	412921	8	6.787	3205870	40.0
system artifact	8.862	4.9	ppm	351483	9	9.798	2861860	40.0
system artifact	9.691	16.4	ppm	1171370	9	9.798	2861860	40.0
Unknown acid	9.953	5.0	ppm	359255	10	9.798	2861860	40.0
system artifact	10.478	33.6	ppm	2402800	10	9.798	2861860	40.0
alkane	11.178	19.7	ppm	1591620	11	11.440	3226910	40.0
Heneicosanol	11.216	26.5	ppm	2140920	11	11.440	3226910	40.0
system artifact	11.745	19.6	ppm	1583860	11	11.440	3226910	40.0
alkane	11.970	27.9	ppm	2246500	11	11.440	3226910	40.0
unknown	12.045	11.9	ppm	961941	11	11.440	3226910	40.0
unknown	12.189	4.2	ppm	336611	11	11.440	3226910	40.0
Oxirane, hexadecyl	12.687	25.4	ppm	2047900	11	11.440	3226910	40.0
unknown	12.943	29.7	ppm	2392620	11	11.440	3226910	40.0
unknown	13.072	10.5	ppm	850533	11	11.440	3226910	40.0
system artifact	13.109	6.5	ppm	527778	11	11.440	3226910	40.0
gamma Sitosterol	13.350	20.4	ppm	1644500	11	11.440	3226910	40.0
unknown	13.446	4.4	ppm	357787	11	11.440	3226910	40.0
unknown	13.660	4.5	ppm	360612	11	11.440	3226910	40.0
alkane	13.922	16.1	ppm	1295760	11	11.440	3226910	40.0
Stigmast-en--one	14.200	7.2	ppm	584261	11	11.440	3226910	40.0
unknown	14.441	5.3	ppm	430074	11	11.440	3226910	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jacky Takeuchi 07/03/24 21:22

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7982.D
Acq On : 03 Jul 2024 03:25 pm
Operator : karimam
Sample : jd91339-2 Inst : GCMS_CT
Misc : op55800,ect375,16.8,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 03 21:50:41 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

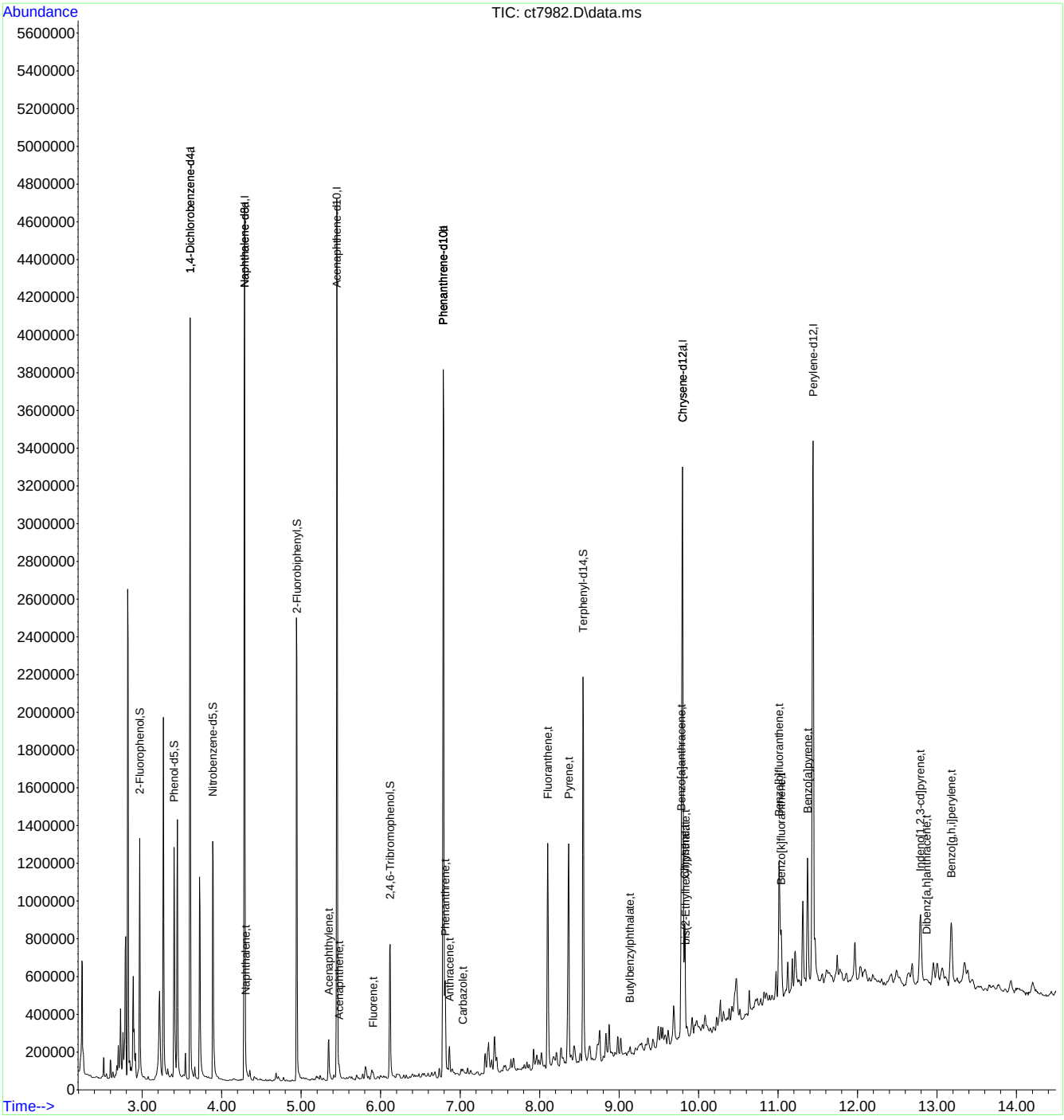
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.605	152	439194	40.00	ppm	0.00
24) Naphthalene-d8	4.289	136	1623907	40.00	ppm	0.00
46) Acenaphthene-d10	5.450	164	868451	40.00	ppm	0.00
69) Phenanthrene-d10	6.787	188	1445943	40.00	ppm	0.00
84) Chrysene-d12	9.798	240	1037634	40.00	ppm	0.00
93) Perylene-d12	11.440	264	1223550	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	3.605	152	439194	40.00	ppm	0.00
105) Phenanthrene-d10a	6.787	188	1445943	40.00	ppm	0.00
107) Naphthalene-d8a	4.289	136	1623907	40.00	ppm	0.00
109) Phenanthrene-d10b	6.787	188	1445943	40.00	ppm	0.00
112) Chrysene-d12a	9.798	240	1037634	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.968	112	273139	19.28	ppm	0.00
Spiked Amount 50.000			Recovery = 38.56%			
8) Phenol-d5	3.401	99	358574	20.21	ppm	0.00
Spiked Amount 50.000			Recovery = 40.42%			
25) Nitrobenzene-d5	3.888	82	363374	21.76	ppm	0.00
Spiked Amount 50.000			Recovery = 43.52%			
51) 2-Fluorobiphenyl	4.947	172	658756	24.31	ppm	0.00
Spiked Amount 50.000			Recovery = 48.62%			
74) 2,4,6-Tribromophenol	6.118	330	74023	26.94	ppm	0.00
Spiked Amount 50.000			Recovery = 53.88%			
87) Terphenyl-d14	8.547	244	643882	25.04	ppm	-0.03
Spiked Amount 50.000			Recovery = 50.08%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
38) Naphthalene	4.300	128	11395	0.2784	ppm	100
56) Acenaphthylene	5.348	152	92801	2.8091	ppm	97
59) Acenaphthene	5.477	153	9175	0.3671	ppm	96
66) Fluorene	5.904	166	13888	0.5256	ppm	95
78) Phenanthrene	6.814	178	168812	4.5398	ppm	98
79) Anthracene	6.867	178	80542	2.2391	ppm	97
80) Carbazole	7.033	167	13292	0.3835	ppm	100
82) Fluoranthene	8.103	202	489166	13.7544	ppm	97
86) Pyrene	8.365	202	504316	13.6863	ppm	99
88) Butylbenzylphthalate	9.135	149	4952	1.7697	ppm	89
89) Benzo[a]anthracene	9.782	228	241638	7.4781	ppm	86
91) Chrysene	9.825	228	241057	7.6113	ppm	98
92) bis(2-Ethylhexyl)phtha...	9.836	149	4398m	1.6884	ppm	
95) Benzo[b]fluoranthene	11.013	252	372753m	10.7309	ppm	
96) Benzo[k]fluoranthene	11.039	252	98015m	2.8605	ppm	
97) Benzo[a]pyrene	11.371	252	285145	10.0665	ppm	98
98) Indeno[1,2,3-cd]pyrene	12.788	276	231665	6.3680	ppm	96
100) Dibenz[a,h]anthracene	12.869	278	18741	0.6394	ppm	97
102) Benzo[g,h,i]perylene	13.179	276	232034	8.2700	ppm	98

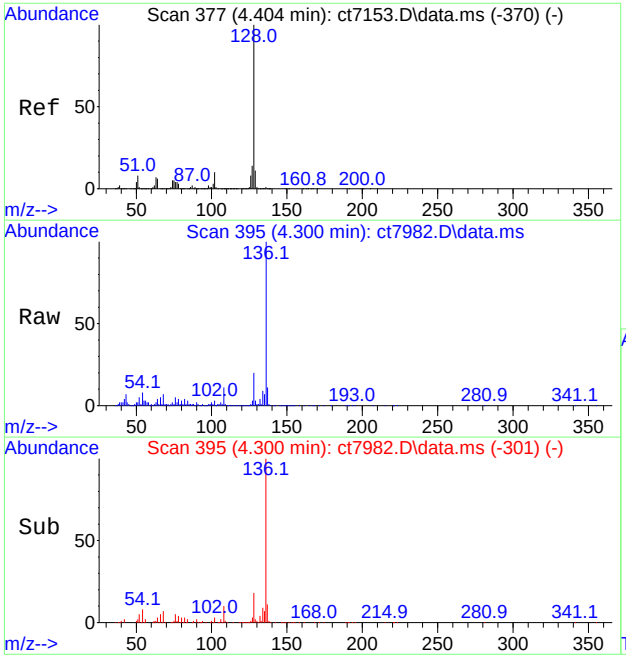
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7982.D
Acq On : 03 Jul 2024 03:25 pm
Operator : karimam
Sample : jd91339-2 Inst : GCMS_CT
Misc : op55800,ect375,16.8,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 03 21:50:41 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

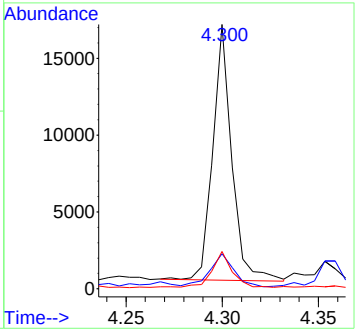


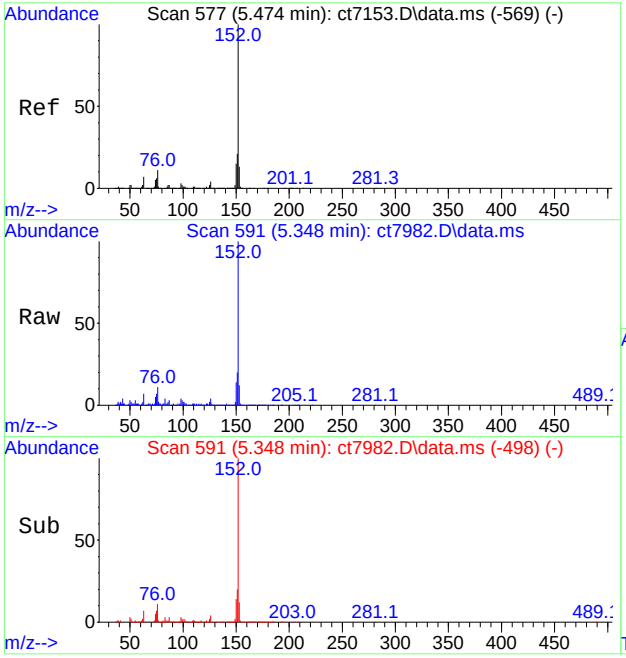


#38
Naphthalene
Concen: 0.2784 ppm
RT: 4.300 min Scan# 395
Delta R.T. 0.000 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:128 Resp: 11395

Ion	Ratio	Lower	Upper
128	100		
129	11.7	0.0	41.4
127	13.8	0.0	43.8

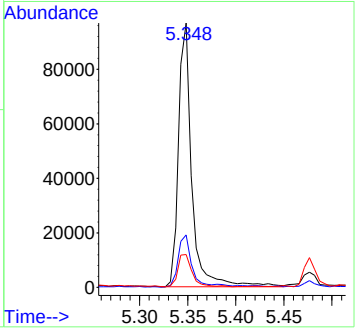


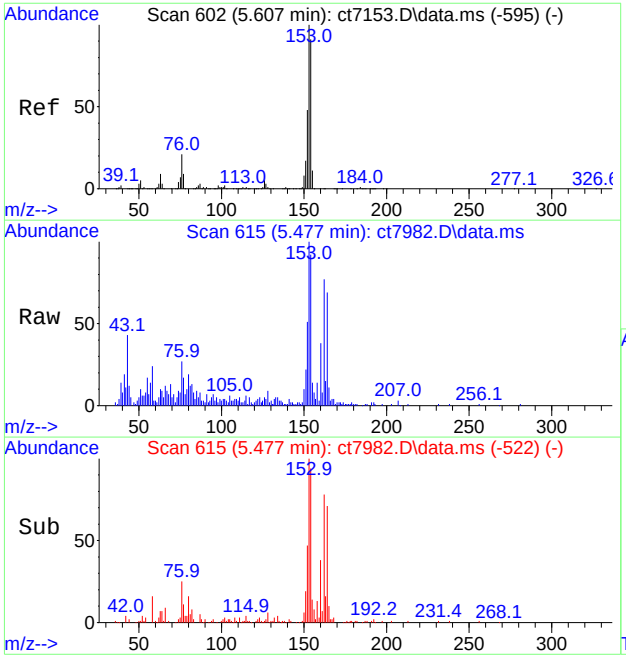


#56
Acenaphthylene
Concen: 2.8091 ppm
RT: 5.348 min Scan# 591
Delta R.T. -0.002 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:152 Resp: 92801

Ion	Ratio	Lower	Upper
152	100		
151	19.7	0.0	50.9
153	11.9	0.0	43.3

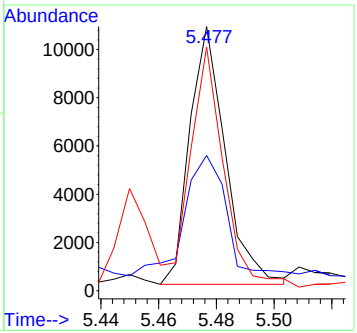


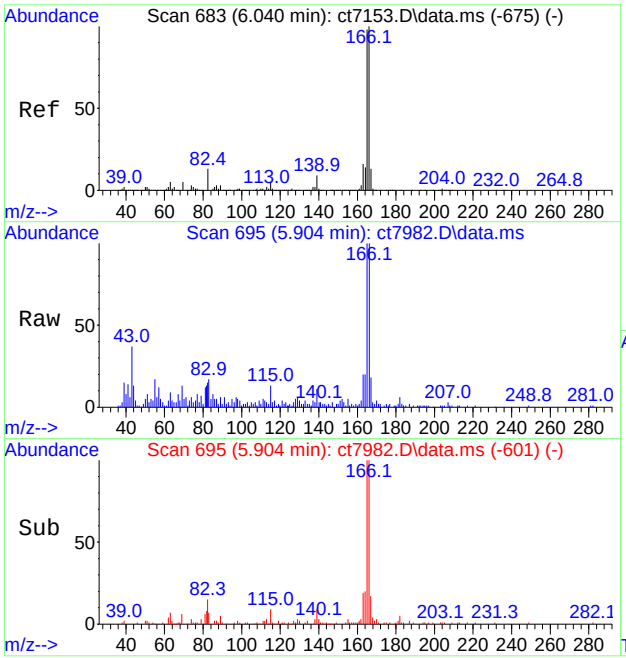


#59
Acenaphthene
Concen: 0.3671 ppm
RT: 5.477 min Scan# 615
Delta R.T. -0.005 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:153 Resp: 9175

Ion	Ratio	Lower	Upper
153	100		
152	44.0	18.3	78.3
154	88.3	60.9	120.9

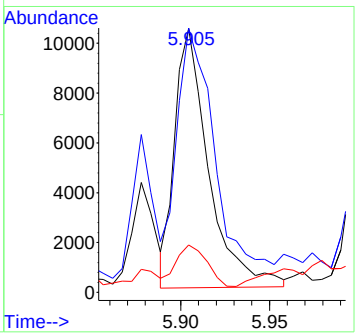


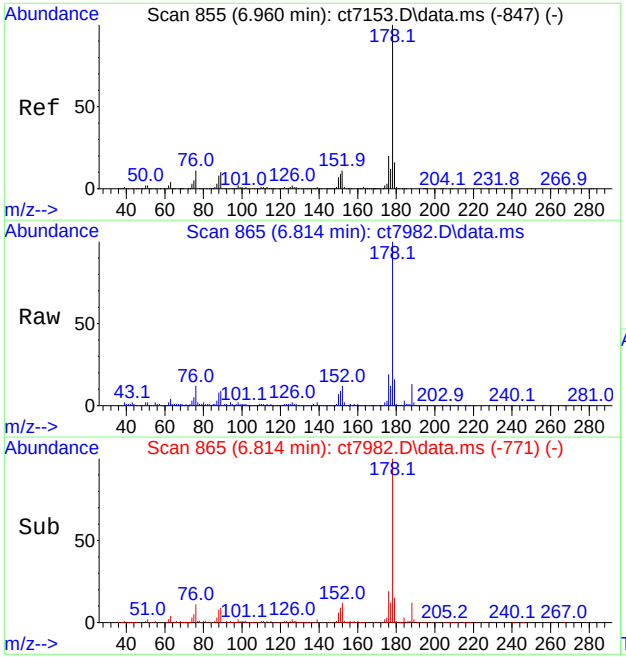


#66
Fluorene
Concen: 0.5256 ppm
RT: 5.904 min Scan# 695
Delta R.T. 0.004 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:166 Resp: 13888

Ion	Ratio	Lower	Upper
166	100		
165	92.7	67.6	127.6
167	12.1	0.0	43.5

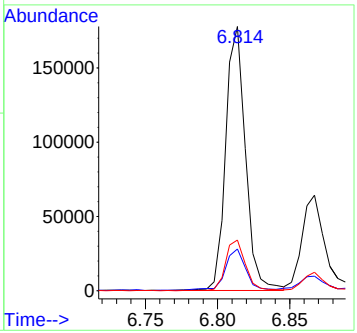


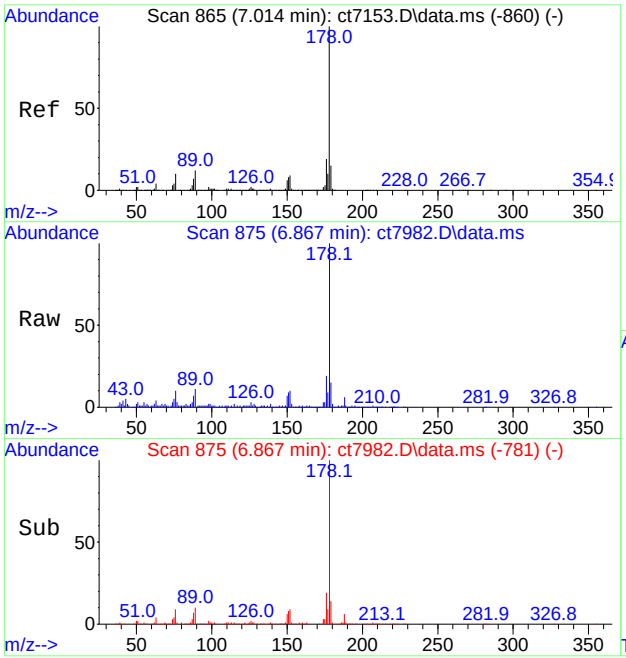


#78
Phenanthrene
Concen: 4.5398 ppm
RT: 6.814 min Scan# 865
Delta R.T. 0.000 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:178 Resp: 168812

Ion	Ratio	Lower	Upper
178	100		
179	15.3	0.0	46.0
176	19.1	0.0	50.0

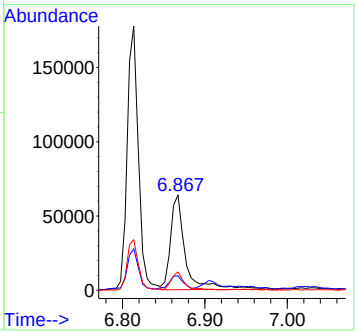


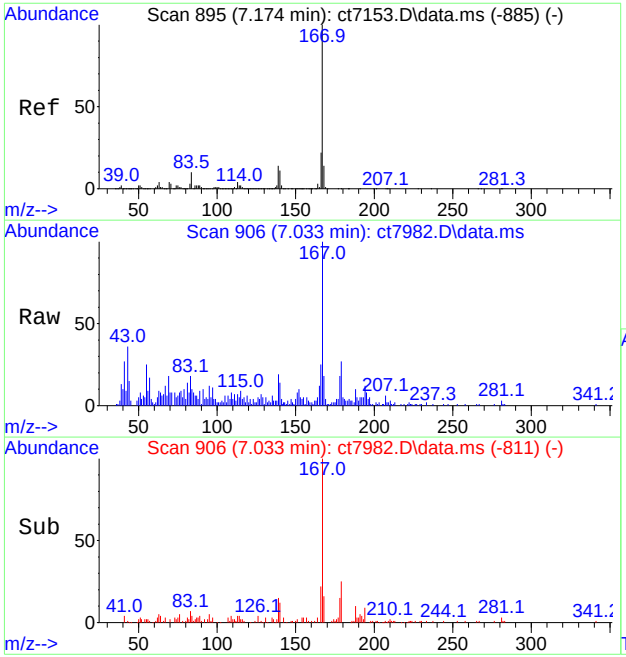


#79
Anthracene
Concen: 2.2391 ppm
RT: 6.867 min Scan# 875
Delta R.T. 0.001 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:178 Resp: 80542

Ion	Ratio	Lower	Upper
178	100		
179	13.1	0.0	45.5
176	19.3	0.0	49.3

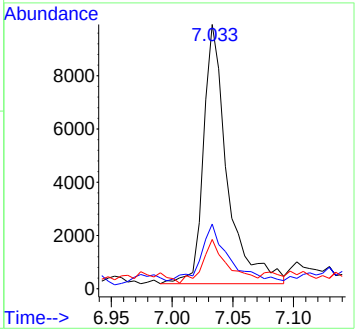


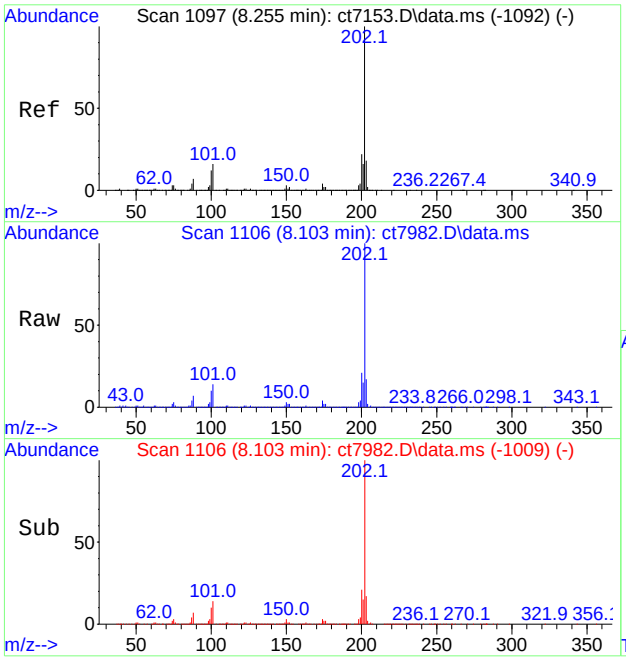


#80
Carbazole
Concen: 0.3835 ppm
RT: 7.033 min Scan# 906
Delta R.T. 0.010 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:167 Resp: 13292

Ion	Ratio	Lower	Upper
167	100		
166	21.6	0.0	51.7
139	13.8	0.0	43.9

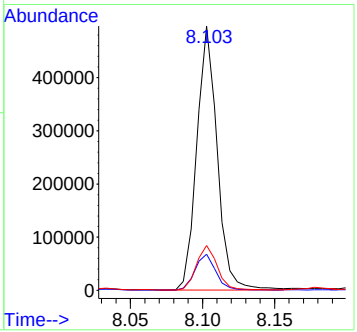


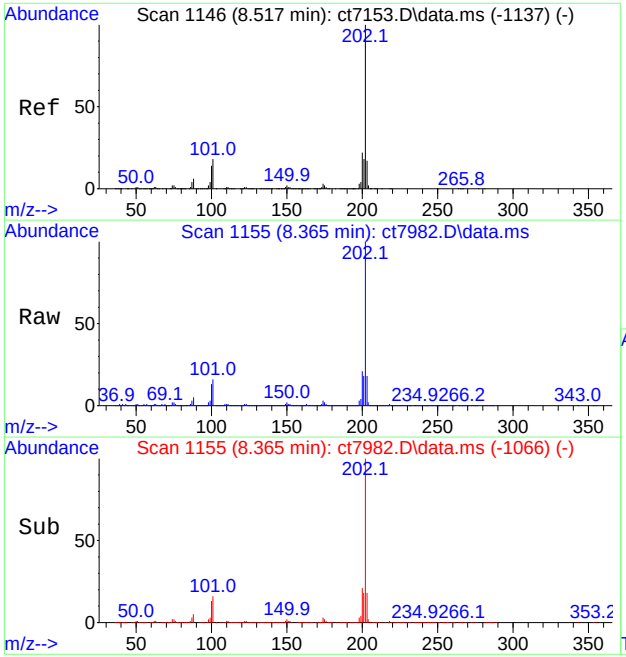


#82
Fluoranthene
Concen: 13.7544 ppm
RT: 8.103 min Scan# 1106
Delta R.T. 0.019 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:202 Resp: 489166

Ion	Ratio	Lower	Upper
202	100		
101	13.6	0.0	45.3
203	16.8	0.0	48.1

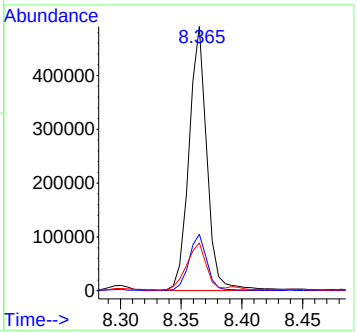


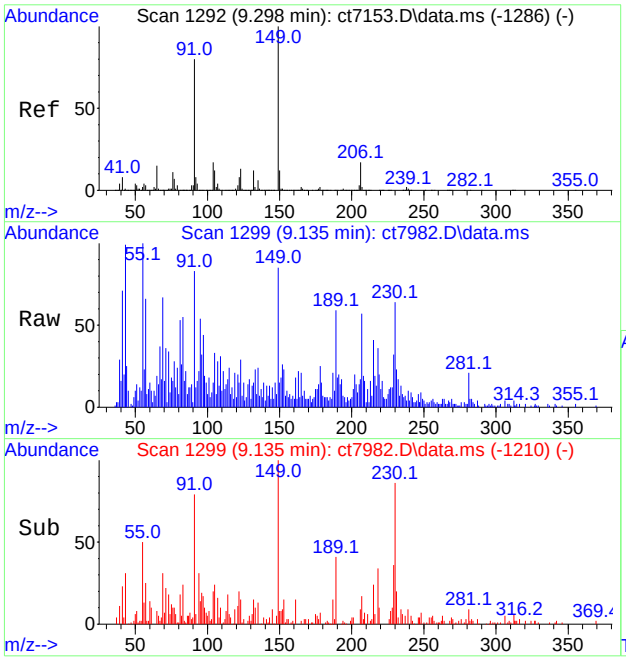


#86
Pyrene
Concen: 13.6863 ppm
RT: 8.365 min Scan# 1155
Delta R.T. -0.024 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:202 Resp: 504316

Ion	Ratio	Lower	Upper
202	100		
200	21.4	0.0	52.3
203	17.8	0.0	47.9

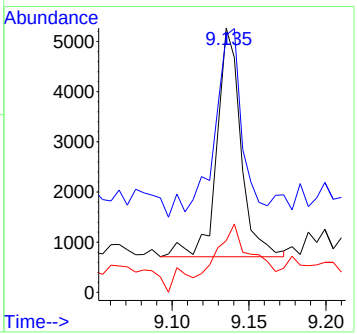


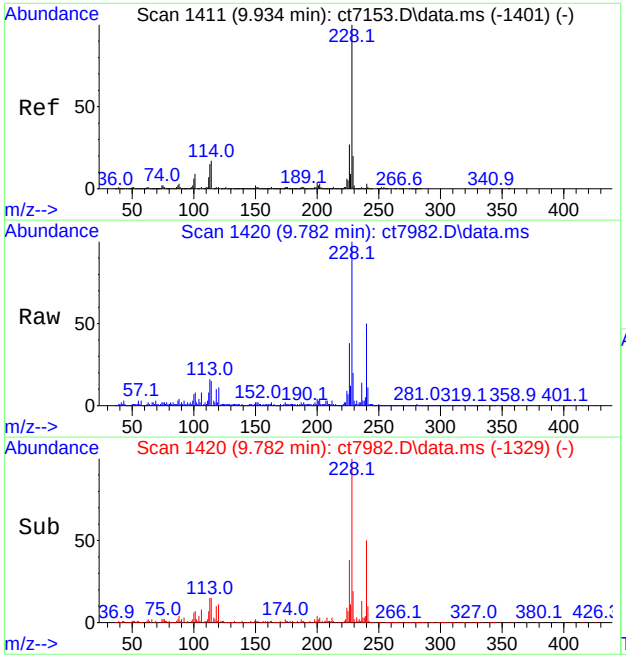


#88
Butylbenzylphthalate
Concen: 1.7697 ppm
RT: 9.135 min Scan# 1299
Delta R.T. -0.024 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:149 Resp: 4952

Ion	Ratio	Lower	Upper
149	100		
91	71.3	51.5	111.5
206	14.1	0.0	47.2

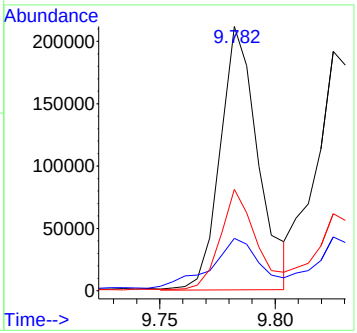


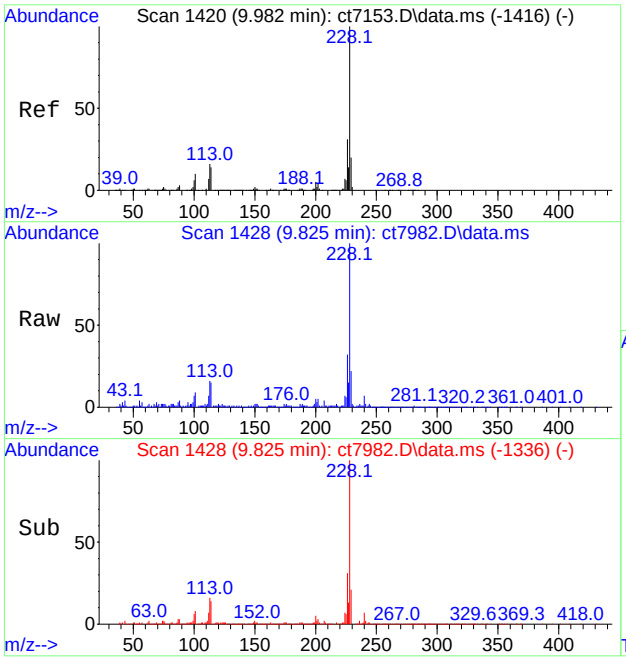


#89
Benzo[a]anthracene
Concen: 7.4781 ppm
RT: 9.782 min Scan# 1420
Delta R.T. -0.011 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:228 Resp: 241638

Ion	Ratio	Lower	Upper
228	100		
229	18.2	0.0	50.0
226	38.2	0.0	57.3

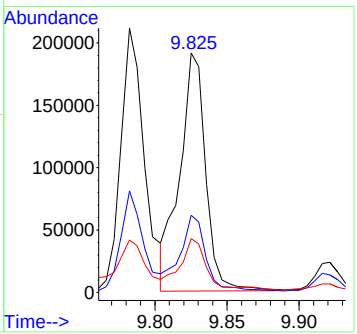


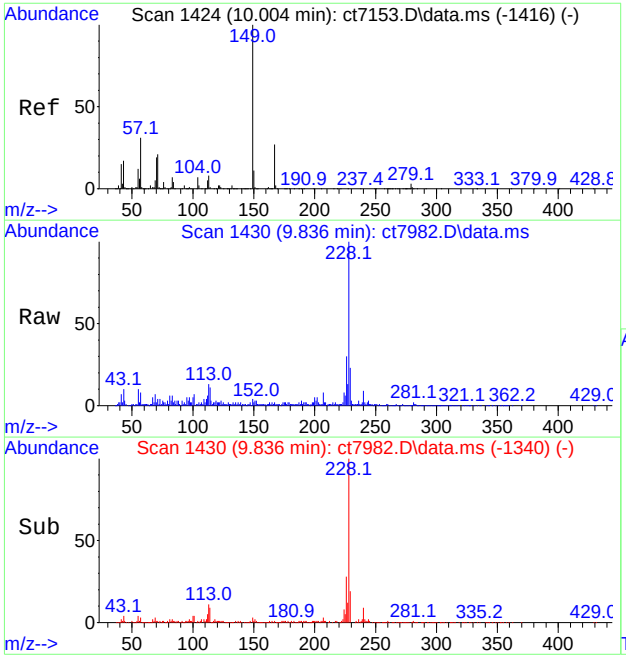


#91
Chrysene
Concen: 7.6113 ppm
RT: 9.825 min Scan# 1428
Delta R.T. -0.010 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:228 Resp: 241057

Ion	Ratio	Lower	Upper
228	100		
226	31.4	1.8	61.8
229	21.7	0.0	49.9

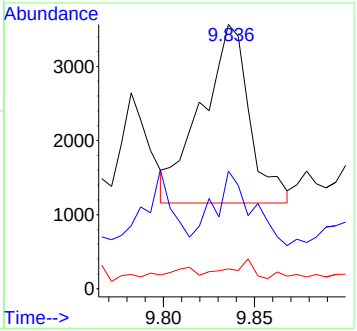


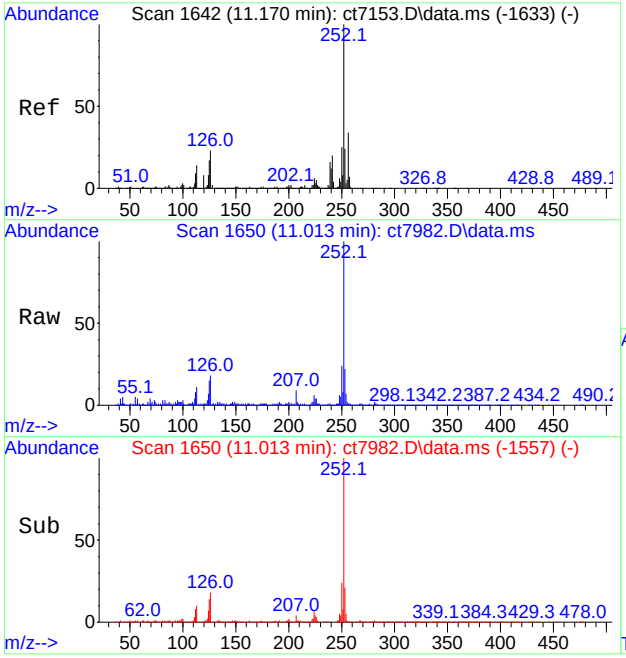


#92
bis(2-Ethylhexyl)phthalate
Concen: 1.6884 ppm m
RT: 9.836 min Scan# 1430
Delta R.T. -0.021 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:149 Resp: 4398

Ion	Ratio	Lower	Upper
149	100		
167	44.5	0.0	57.0
279	4.0	0.0	33.4

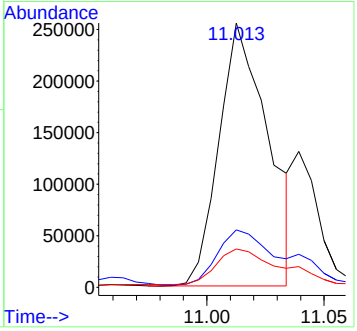


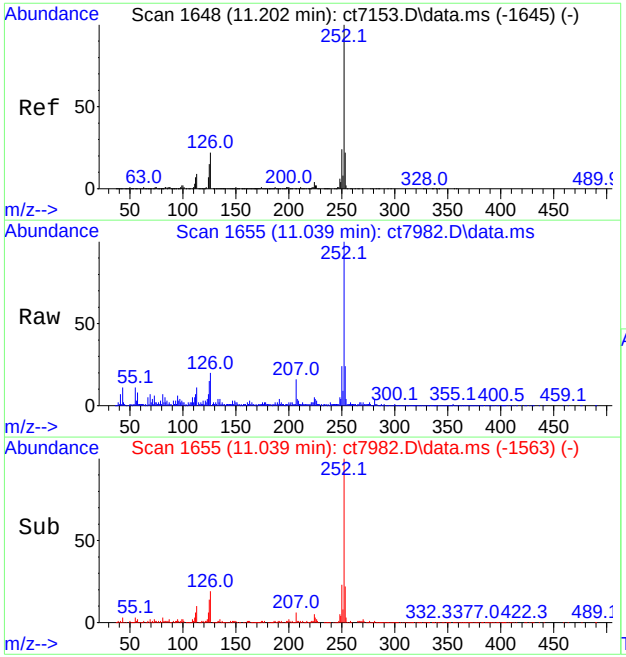


#95
Benzo[b]fluoranthene
Concen: 10.7309 ppm m
RT: 11.013 min Scan# 1650
Delta R.T. -0.005 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:252 Resp: 372753

Ion	Ratio	Lower	Upper
252	100		
253	21.7	0.0	53.9
125	14.5	0.0	45.9

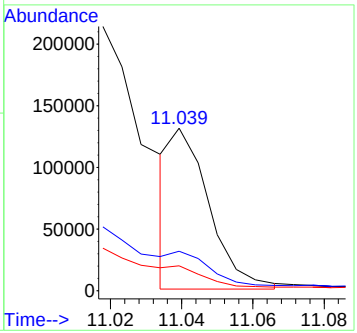


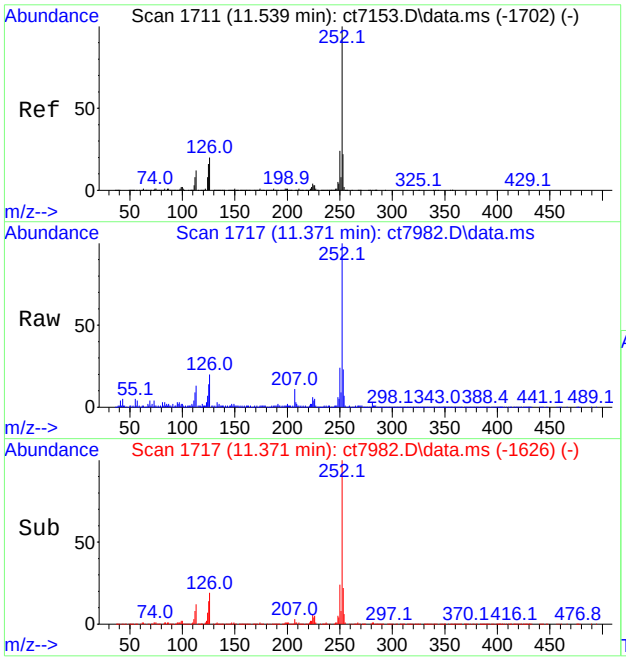


#96
Benzo[k]fluoranthene
Concen: 2.8605 ppm m
RT: 11.039 min Scan# 1655
Delta R.T. -0.010 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:252 Resp: 98015

Ion	Ratio	Lower	Upper
252	100		
253	24.3	0.0	51.8
125	15.4	0.0	43.8

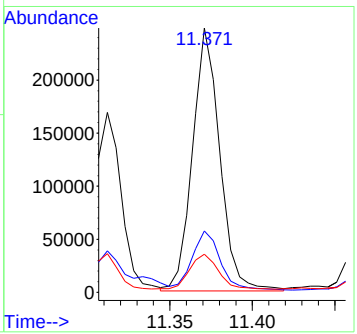


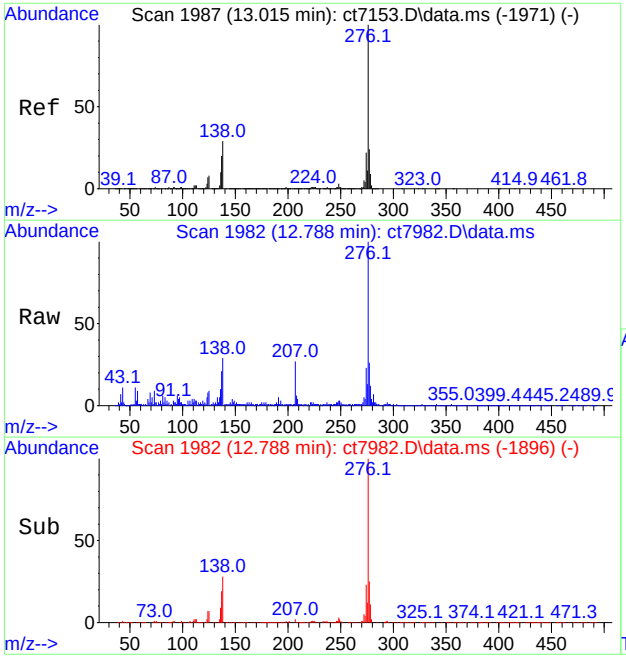


#97
Benzo[a]pyrene
Concen: 10.0665 ppm
RT: 11.371 min Scan# 1717
Delta R.T. -0.011 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:252 Resp: 285145

Ion	Ratio	Lower	Upper
252	100		
253	21.3	0.0	51.9
125	13.2	0.0	44.9

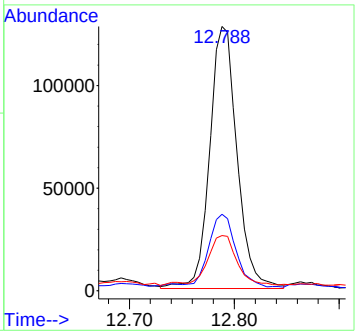


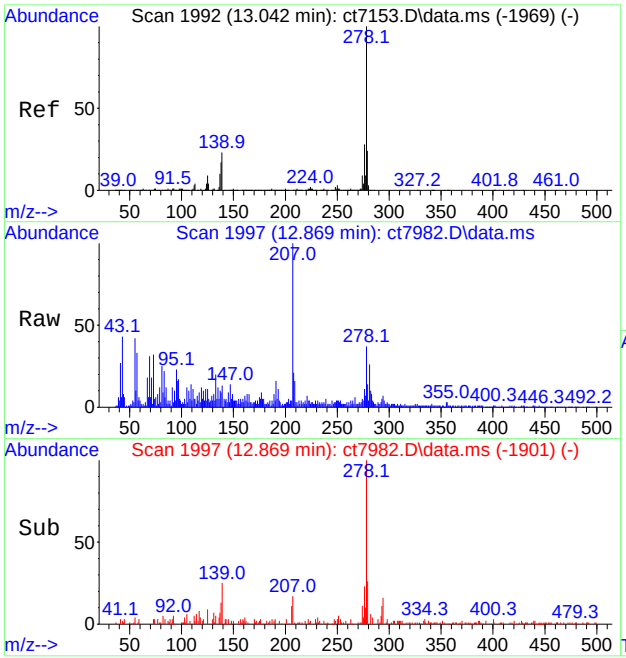


#98
Indeno[1,2,3-cd]pyrene
Concen: 6.3680 ppm
RT: 12.788 min Scan# 1982
Delta R.T. -0.042 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:276 Resp: 231665

Ion	Ratio	Lower	Upper
276	100		
138	27.8	0.0	59.6
137	18.9	0.0	50.8

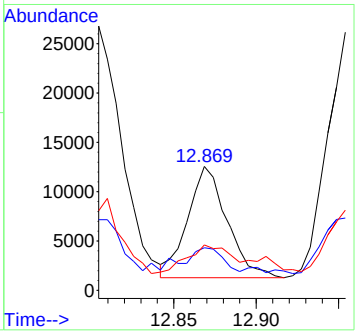


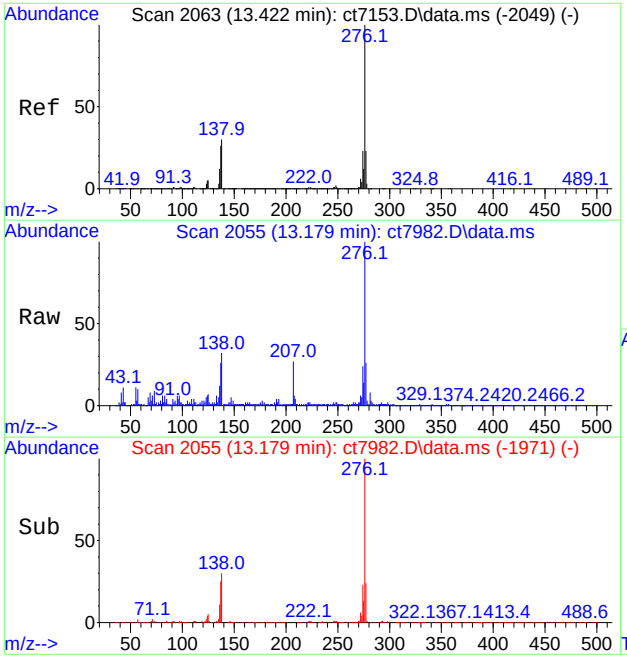


#100
Dibenz[a,h]anthracene
Concen: 0.6394 ppm
RT: 12.869 min Scan# 1997
Delta R.T. 0.012 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:278 Resp: 18741

Ion	Ratio	Lower	Upper
278	100		
139	21.8	0.0	54.0
279	24.9	0.0	54.5

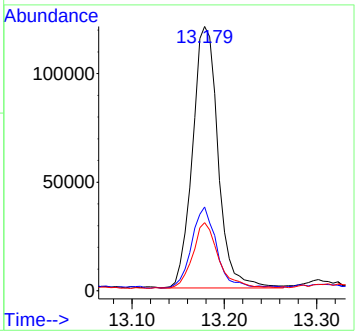




#102
Benzo[g,h,i]perylene
Concen: 8.2700 ppm
RT: 13.179 min Scan# 2055
Delta R.T. -0.053 min
Lab File: ct7982.D
Acq: 03 Jul 2024 03:25 pm

Tgt Ion:276 Resp: 232034

Ion	Ratio	Lower	Upper
276	100		
138	30.9	0.0	59.8
277	24.8	0.0	53.4



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7982.D
Acq On : 03 Jul 2024 03:25 pm
Operator : karimam
Sample : jd91339-2
Misc : op55800,ect375,16.8,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: ct7982.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.289	387	393	403	rBV	4648892	3472411	83.06%	8.710%
2	4.353	403	405	413	rVB	53681	52314	1.25%	0.131%
3	4.412	413	416	419	rBV	20486	25530	0.61%	0.064%
4	4.685	457	467	470	rBV2	43484	56233	1.35%	0.141%
5	4.712	470	472	479	rVB2	23723	30239	0.72%	0.076%
6	4.942	509	515	527	rBV	2456149	2031766	48.60%	5.097%
7	5.059	534	537	546	rVB9	14510	28681	0.69%	0.072%
8	5.193	559	562	569	rBV5	20293	36370	0.87%	0.091%
9	5.241	569	571	576	rVB	23873	21205	0.51%	0.053%
10	5.348	584	591	599	rBV	219339	237295	5.68%	0.595%
11	5.412	599	603	605	rVV2	24942	25084	0.60%	0.063%
12	5.450	605	610	622	rVV	4667406	3832581	91.67%	9.614%
13	5.616	636	641	643	rVV3	13827	22682	0.54%	0.057%
14	5.701	653	657	663	rBV4	27258	44157	1.06%	0.111%
15	5.776	663	671	673	rBV5	27338	28730	0.69%	0.072%
16	5.808	673	677	683	rBV2	64818	90116	2.16%	0.226%
17	5.888	687	692	701	rBV2	51028	96656	2.31%	0.242%
18	5.963	701	706	710	rBV8	14920	22457	0.54%	0.056%
19	6.001	710	713	718	rBV5	18136	29985	0.72%	0.075%
20	6.118	729	735	748	rBV	711383	781646	18.70%	1.961%
21	6.204	748	751	761	rVB5	25234	66532	1.59%	0.167%
22	6.402	783	788	791	rBV5	21184	30293	0.72%	0.076%
23	6.530	807	812	813	rBV5	21250	22791	0.55%	0.057%
24	6.643	829	833	836	rBV3	22425	22366	0.53%	0.056%
25	6.680	836	840	847	rVB3	32781	53379	1.28%	0.134%
26	6.739	847	851	855	rBV	52515	58186	1.39%	0.146%
27	6.787	855	860	871	rBV	3751107	4180707	100.00%	10.487%
28	6.867	872	875	878	rVV	150607	155012	3.71%	0.389%
29	6.899	879	881	888	rVB4	30003	48159	1.15%	0.121%
30	7.012	898	902	904	rBV	33454	34629	0.83%	0.087%
31	7.033	904	906	912	rVV2	31191	43873	1.05%	0.110%
32	7.097	915	918	921	rVB	32671	28160	0.67%	0.071%
33	7.135	921	925	934	rVB4	23196	33633	0.80%	0.084%
34	7.220	934	941	945	rVB8	19589	38792	0.93%	0.097%
35	7.317	954	959	962	rBV	107224	127156	3.04%	0.319%
36	7.359	962	967	971	rVV2	145917	227812	5.45%	0.571%
37	7.397	971	974	977	rVB	51081	49233	1.18%	0.123%
38	7.434	977	981	993	rVB	189434	326508	7.81%	0.819%
39	7.552	1000	1003	1005	rBV	29869	34159	0.82%	0.086%
40	7.637	1012	1019	1022	rBV3	61380	78127	1.87%	0.196%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7982.D
Acq On : 03 Jul 2024 03:25 pm
Operator : karimam
Sample : jd91339-2
Misc : op55800,ect375,16.8,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	7.670	1022	1025	1033	rVB3	66291	86524	2.07%	0.217%
42	7.803	1044	1050	1053	rBV5	28282	43839	1.05%	0.110%
43	7.841	1054	1057	1060	rVV	41148	37595	0.90%	0.094%
44	7.867	1060	1062	1066	rVB2	31774	32434	0.78%	0.081%
45	7.926	1067	1073	1076	rBV	112165	139801	3.34%	0.351%
46	7.964	1076	1080	1083	rVV3	71154	95918	2.29%	0.241%
47	7.990	1083	1085	1088	rVV2	43434	47836	1.14%	0.120%
48	8.023	1088	1091	1097	rVV2	78991	105152	2.52%	0.264%
49	8.103	1101	1106	1113	rBV	1192946	1215344	29.07%	3.049%
50	8.178	1114	1120	1124	rVV8	50213	103257	2.47%	0.259%
51	8.210	1124	1126	1133	rVB	72759	87880	2.10%	0.220%
52	8.269	1133	1137	1145	rBV6	97933	187805	4.49%	0.471%
53	8.365	1149	1155	1164	rVV	1166257	1367296	32.70%	3.430%
54	8.434	1164	1168	1174	rVB4	91910	159441	3.81%	0.400%
55	8.509	1179	1182	1185	rBV2	50316	53435	1.28%	0.134%
56	8.547	1185	1189	1198	rVV	2035503	2021740	48.36%	5.071%
57	8.632	1198	1205	1209	rBV3	78488	135385	3.24%	0.340%
58	8.755	1217	1228	1233	rVB	161645	328209	7.85%	0.823%
59	8.798	1233	1236	1239	rBV4	25573	32031	0.77%	0.080%
60	8.836	1239	1243	1247	rVV	133269	156544	3.74%	0.393%
61	8.873	1247	1250	1261	rVB2	174448	248786	5.95%	0.624%
62	8.980	1267	1270	1275	rVV	99147	115408	2.76%	0.289%
63	9.023	1275	1278	1283	rVB	85376	93507	2.24%	0.235%
64	9.140	1293	1300	1304	rBV8	40211	52962	1.27%	0.133%
65	9.205	1309	1312	1316	rBV6	34655	59175	1.42%	0.148%
66	9.269	1317	1324	1325	rBV7	31469	60232	1.44%	0.151%
67	9.333	1333	1336	1339	rBV4	30547	42766	1.02%	0.107%
68	9.360	1339	1341	1348	rVB2	65030	92214	2.21%	0.231%
69	9.424	1349	1353	1360	rBV5	53980	80813	1.93%	0.203%
70	9.493	1361	1366	1369	rBV2	112857	160738	3.84%	0.403%
71	9.526	1369	1372	1374	rVV	75347	64877	1.55%	0.163%
72	9.547	1374	1376	1379	rVB	67813	63427	1.52%	0.159%
73	9.617	1386	1389	1393	rVB	75606	86859	2.08%	0.218%
74	9.686	1395	1402	1411	rBV3	199241	331573	7.93%	0.832%
75	9.798	1415	1423	1427	rVV2	3023745	4054616	96.98%	10.171%
76	9.825	1427	1428	1439	rVB	597400	530949	12.70%	1.332%
77	9.921	1441	1446	1449	rBV2	93420	116806	2.79%	0.293%
78	9.975	1449	1456	1460	rBV5	68253	160658	3.84%	0.403%
79	10.082	1473	1476	1486	rVB8	85526	146134	3.50%	0.367%
80	10.226	1500	1503	1506	rBV3	71462	92050	2.20%	0.231%
81	10.274	1507	1512	1516	rVV	150102	214652	5.13%	0.538%
82	10.312	1517	1519	1526	rVV	73002	113255	2.71%	0.284%
83	10.381	1530	1532	1535	rVV	68289	68311	1.63%	0.171%
84	10.419	1536	1539	1542	rVV3	73202	95427	2.28%	0.239%
85	10.472	1542	1549	1556	rVB4	196315	454445	10.87%	1.140%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7982.D
Acq On : 03 Jul 2024 03:25 pm
Operator : karimam
Sample : jd91339-2
Misc : op55800,ect375,16.8,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	10.638	1576	1580	1587	rBV3	133845	185600	4.44%	0.466%
87	10.825	1612	1615	1617	rBV2	60976	68221	1.63%	0.171%
88	10.975	1639	1643	1646	rBV3	144989	141825	3.39%	0.356%
89	11.013	1646	1650	1661	rVV	720833	1370660	32.79%	3.438%
90	11.119	1667	1670	1675	rVB	158716	167480	4.01%	0.420%
91	11.178	1677	1681	1684	rBV	163715	160945	3.85%	0.404%
92	11.216	1684	1688	1695	rBV4	186742	293330	7.02%	0.736%
93	11.312	1702	1706	1713	rBV	449308	530956	12.70%	1.332%
94	11.371	1713	1717	1723	rVV	668313	756449	18.09%	1.897%
95	11.440	1723	1730	1745	rVB	2864934	3805345	91.02%	9.545%
96	11.745	1784	1787	1790	rVB3	104523	95084	2.27%	0.239%
97	11.970	1824	1829	1834	rVB2	198097	280167	6.70%	0.703%
98	12.794	1977	1983	1991	rBV2	351308	623885	14.92%	1.565%
99	12.954	2009	2013	2017	rBV	93360	133440	3.19%	0.335%
100	13.179	2049	2055	2065	rBV	319822	588566	14.08%	1.476%

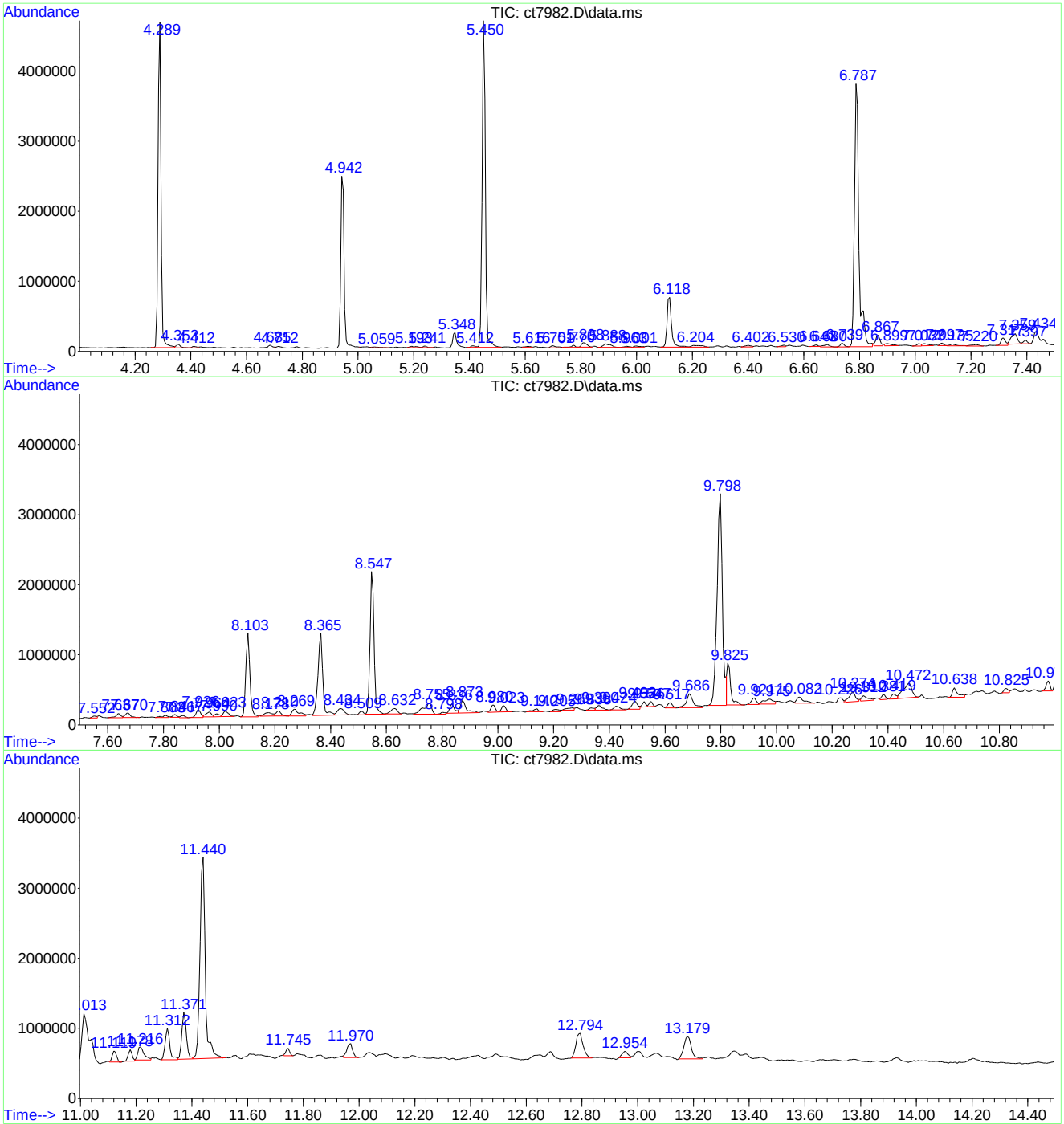
Sum of corrected areas: 39865704

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7982.D
Acq On : 03 Jul 2024 03:25 pm
Operator : karimam
Sample : jd91339-2
Misc : op55800,ect375,16.8,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7982.D
Acq On : 03 Jul 2024 03:25 pm
Operator : karimam
Sample : jd91339-2
Misc : op55800,ect375,16.8,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

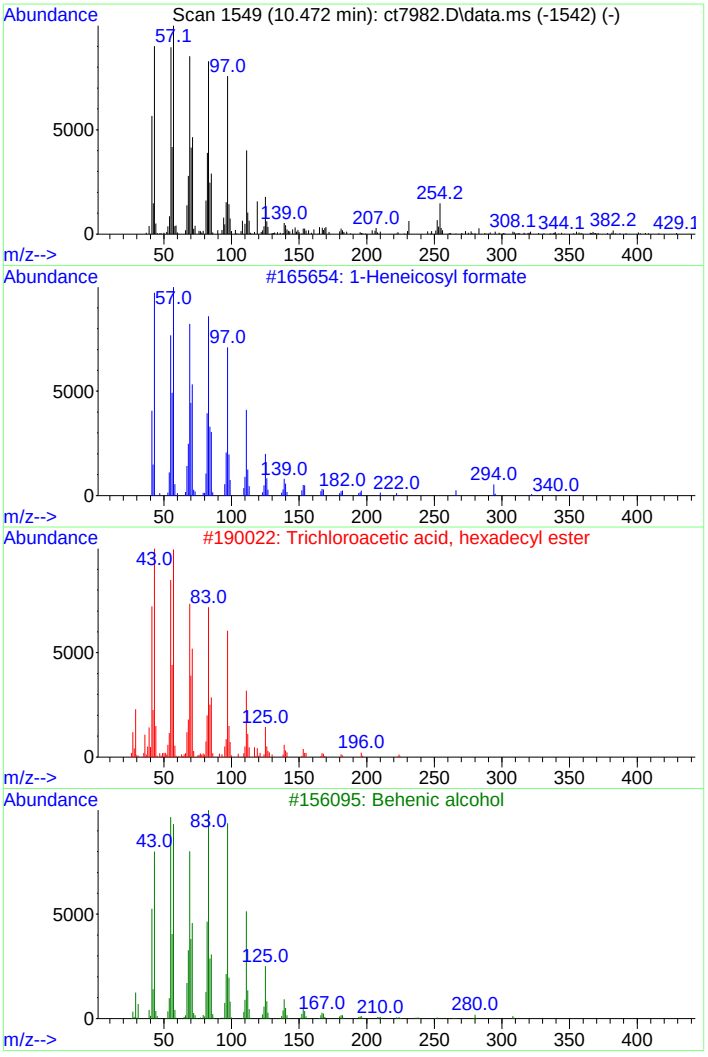
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

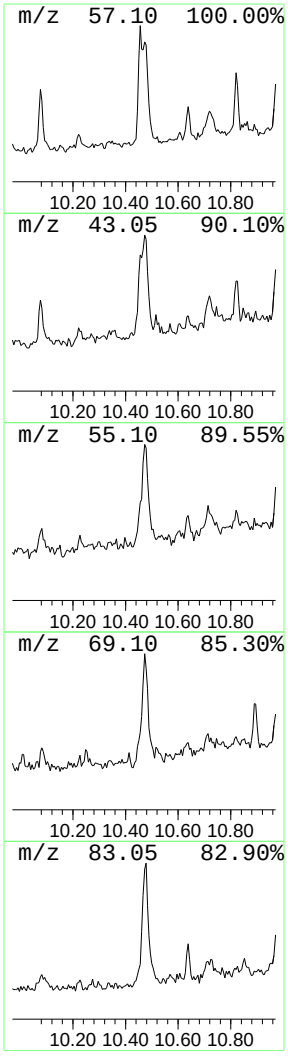
****

Peak Number 1 Heneicosyl formate Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.472	4.48 ppm	454445	Chrysene-d12a	9.798

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosyl formate	340	C22H44O2	077899-03-7	94
2	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	93
3	Behenic alcohol	326	C22H46O	000661-19-8	93
4	1-Docosene	308	C22H44	001599-67-3	91
5	Pentadecyl pentafluoropropionate	374	C18H31F5O2	1000351-80-4	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7982.D
Acq On : 03 Jul 2024 03:25 pm
Operator : karimam
Sample : jd91339-2
Misc : op55800,ect375,16.8,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

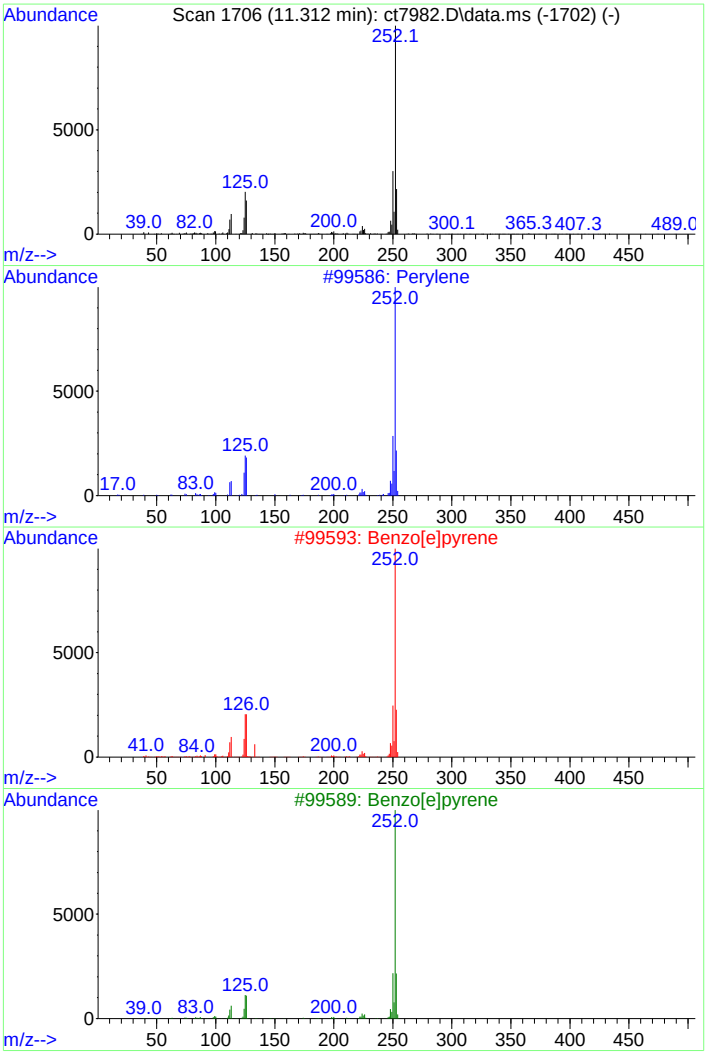
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

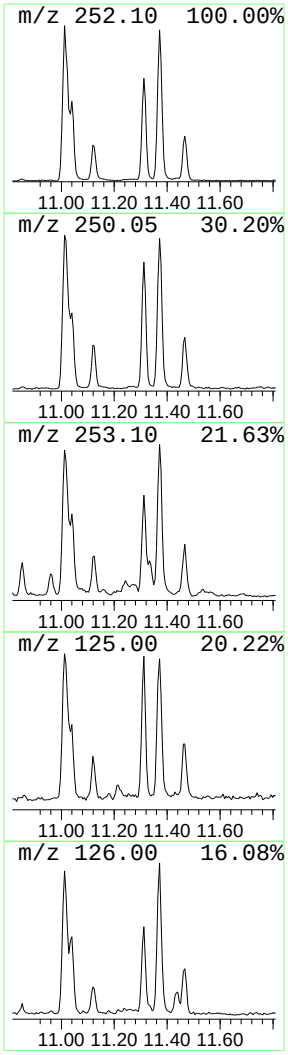
****

Peak Number 2 unknown PAH Substances Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.312	5.58 ppm	530956	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	99
2	Benzo[e]pyrene	252	C20H12	000192-97-2	98
3	Benzo[e]pyrene	252	C20H12	000192-97-2	98
4	Perylene	252	C20H12	000198-55-0	98
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7982.D
Acq On : 03 Jul 2024 03:25 pm
Operator : karimam
Sample : jd91339-2
Misc : op55800,ect375,16.8,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Heneicosyl formate	10.472	4.5	ppm	454445	10	9.798	4054620	40.0
unknown PAH Sub...	11.312	5.6	ppm	530956	11	11.440	3805350	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\nerirose\E3E5819\
Data File : 3E125168.d
Acq On : 5 Jul 2024 3:24 pm
Operator : kaleigh
Sample : jd91339-3 Inst : GCMS3E
Misc : op55800,e3e5819,30.1,,,1,10
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 05 22:05:07 2024
Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
QLast Update : Fri Jul 05 21:49:15 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.798	152	90669	40.00	ppm	0.00
24) Naphthalene-d8	5.889	136	352828	40.00	ppm	0.00
46) Acenaphthene-d10	7.980	164	200382	40.00	ppm	-0.01
69) Phenanthrene-d10	10.178	188	371330	40.00	ppm	-0.02
84) Chrysene-d12	14.388	240	285489	40.00	ppm	-0.02
93) Perylene-d12	16.516	264	327518	40.00	ppm	-0.02
103) 1,4-Dichlorobenzene-d4a	4.798	152	90669	40.00	ppm	0.00
105) Phenanthrene-d10a	10.178	188	371330	40.00	ppm	-0.02
107) Naphthalene-d8a	5.889	136	352828	40.00	ppm	0.00
109) Phenanthrene-d10b	10.178	188	371330	40.00	ppm	-0.02
112) Chrysene-d12a	14.388	240	285489	40.00	ppm	-0.02
114) Naphthalene-d8b	5.889	136	352828	40.00	ppm	0.00
117) Naphthalene-d8c	5.889	136	352828	40.00	ppm	0.00
119) Chrysene-d12b	14.388	240	285489	40.00	ppm	-0.02
121) 1,4-Dichlorobenzene-d4b	4.798	152	90669	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.867	112	5656	1.96	ppm	0.00
Spiked Amount 50.000			Recovery =	3.92%		
8) Phenol-d5	4.530	99	8092	2.23	ppm	0.00
Spiked Amount 50.000			Recovery =	4.46%		
25) Nitrobenzene-d5	5.236	82	7400	2.52	ppm	0.00
Spiked Amount 50.000			Recovery =	5.04%		
51) 2-Fluorobiphenyl	7.097	172	16871	2.60	ppm	0.00
Spiked Amount 50.000			Recovery =	5.20%		
74) 2,4,6-Tribromophenol	9.125	330	2026	2.60	ppm	-0.02
Spiked Amount 50.000			Recovery =	5.20%		
87) Terphenyl-d14	12.751	244	19267	2.66	ppm	-0.02
Spiked Amount 50.000			Recovery =	5.32%		
110) 1-chlorooctadecane	0.000	56	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
38) Naphthalene	5.910	128	31849	3.5112	ppm	100
44) 2-Methylnaphthalene	6.654	141	7594	1.4252	ppm	96
53) Biphenyl	7.221	154	2624	0.3538	ppm	87
56) Acenaphthylene	7.787	152	5666	0.6775	ppm	97
59) Acenaphthene	8.023	153	23702	3.9028	ppm	98
62) Dibenzofuran	8.269	168	22611	2.8093	ppm	95
66) Fluorene	8.766	166	29228	4.6386	ppm	95
78) Phenanthrene	10.216	178	252071	26.7360	ppm	99
79) Anthracene	10.296	178	82739	8.8693	ppm	99
80) Carbazole	10.569	167	20790	2.3460	ppm	95
82) Fluoranthene	12.088	202	296136	31.2392	ppm	99
86) Pyrene	12.441	202	251395	25.7634	ppm	95
89) Benzo[a]anthracene	14.372	228	105953	11.6942	ppm	99
91) Chrysene	14.425	228	95491	10.8992	ppm	97
95) Benzo[b]fluoranthene	15.992	252	115476	12.0476	ppm	93
96) Benzo[k]fluoranthene	16.030	252	45420	4.8391	ppm	98
97) Benzo[a]pyrene	16.436	252	93142	11.3978	ppm	99
98) Indeno[1,2,3-cd]pyrene	18.142	276	61433	7.5845	ppm	86
100) Dibenz[a,h]anthracene	18.185	278	14186	1.7408	ppm	93
102) Benzo[g,h,i]perylene	18.608	276	56534	7.4022	ppm	95

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\nerirose\E3E5819\
Data File : 3E125168.d
Acq On : 5 Jul 2024 3:24 pm
Operator : kaleigh
Sample : jd91339-3 Inst : GCMS3E
Misc : op55800,e3e5819,30.1,,,1,10
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 05 22:05:07 2024
Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
QLast Update : Fri Jul 05 21:49:15 2024
Response via : Initial Calibration

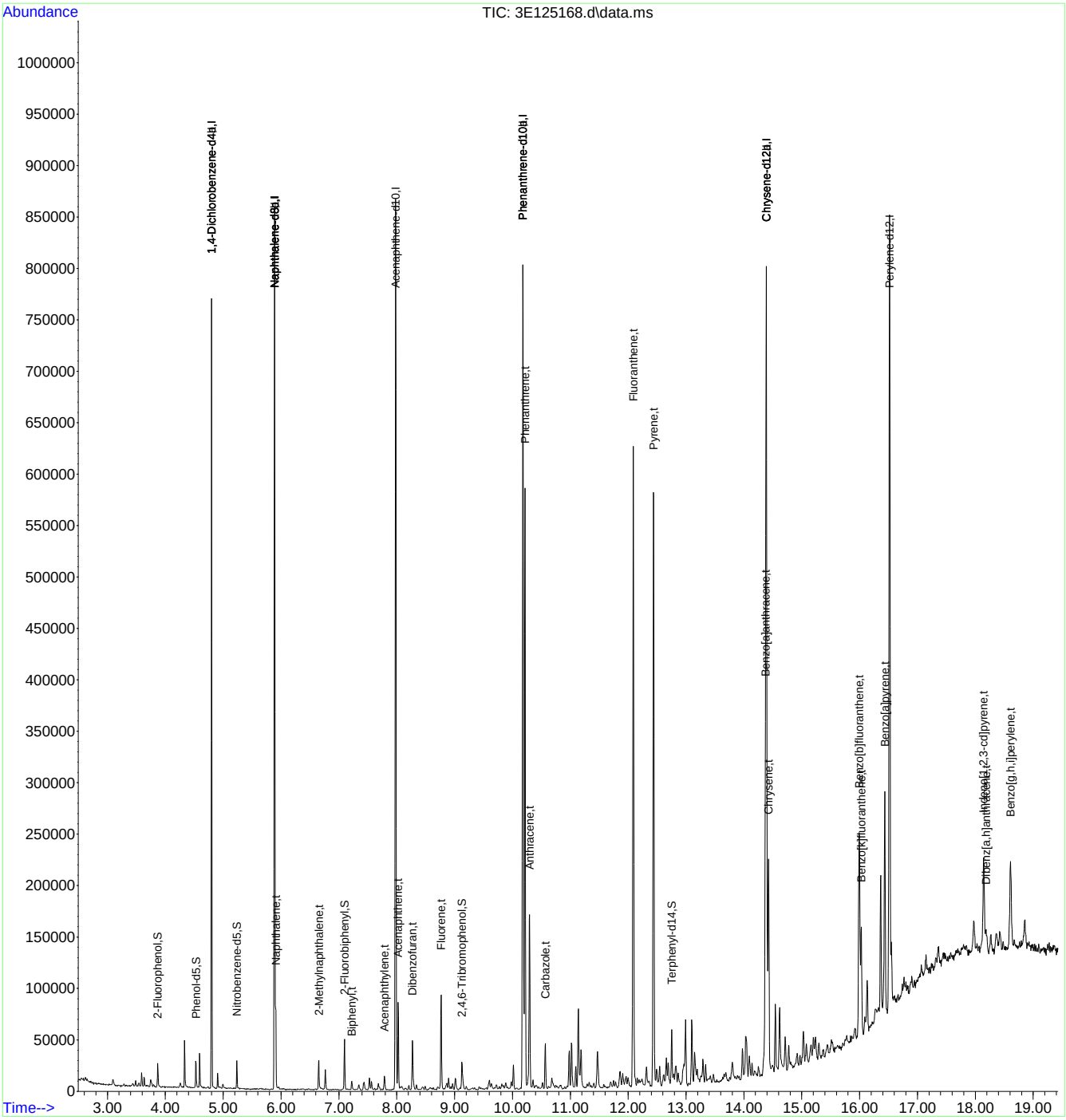
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

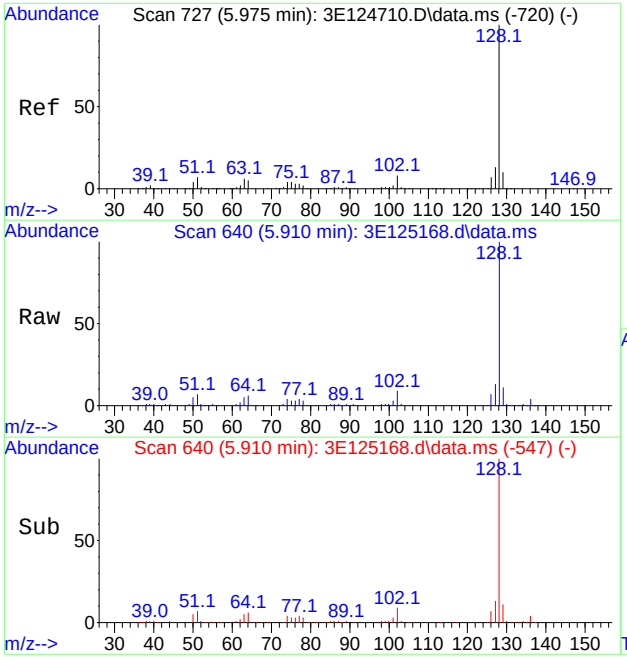
Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\nerirose\E3E5819\
Data File : 3E125168.d
Acq On : 5 Jul 2024 3:24 pm
Operator : kaleigh
Sample : jd91339-3 Inst : GCMS3E
Misc : op55800,e3e5819,30.1,,,1,10
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 05 22:05:07 2024
Quant Method : X:\Dayton SVOA GCMS\nerirose\methods\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
QLast Update : Fri Jul 05 21:49:15 2024
Response via : Initial Calibration



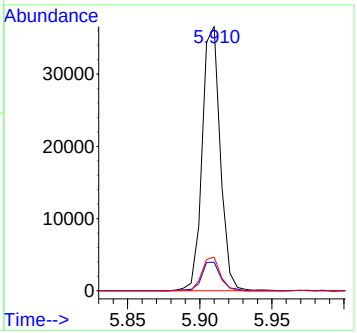
M3E5799.M Fri Jul 05 22:17:45 2024 Page: 3

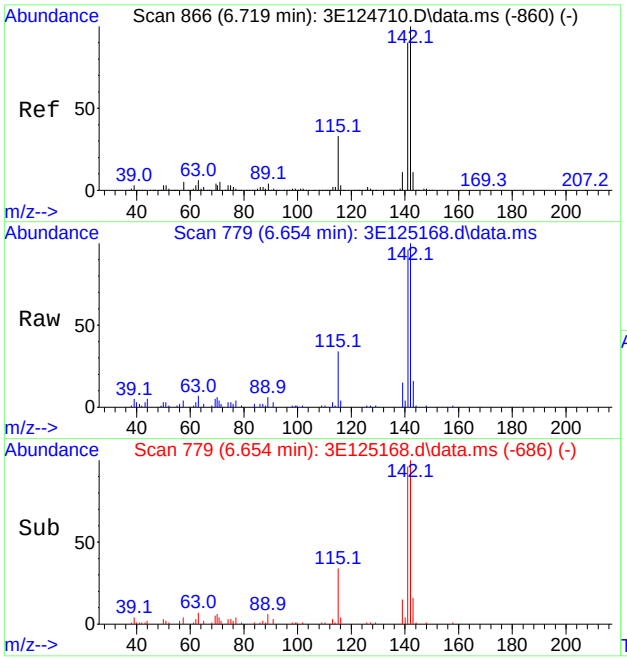


#38
Naphthalene
Concen: 3.5112 ppm
RT: 5.910 min Scan# 640
Delta R.T. -0.005 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:128 Resp: 31849

Ion	Ratio	Lower	Upper
128	100		
129	10.8	0.0	40.8
127	12.8	0.0	42.9

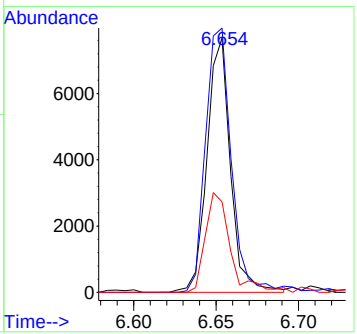


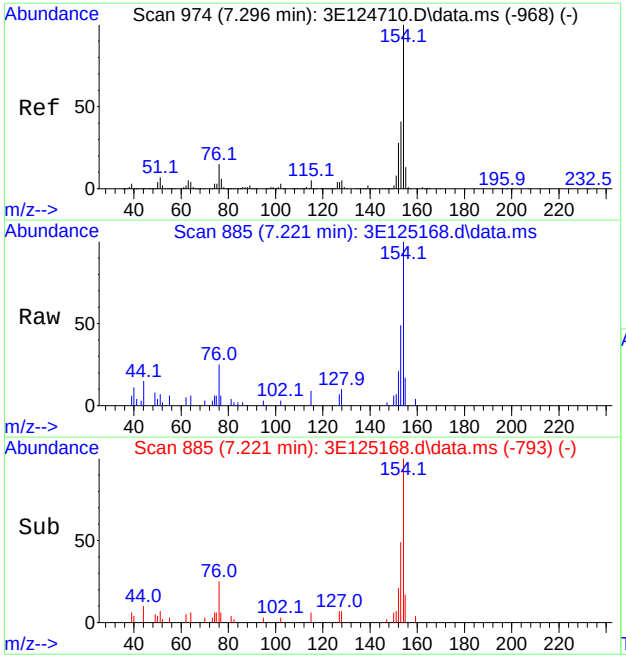


#44
2-Methylnaphthalene
Concen: 1.4252 ppm
RT: 6.654 min Scan# 779
Delta R.T. -0.005 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:141 Resp: 7594

Ion	Ratio	Lower	Upper
141	100		
142	103.3	77.4	137.4
115	34.8	6.8	66.8

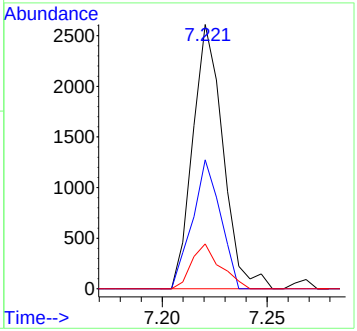


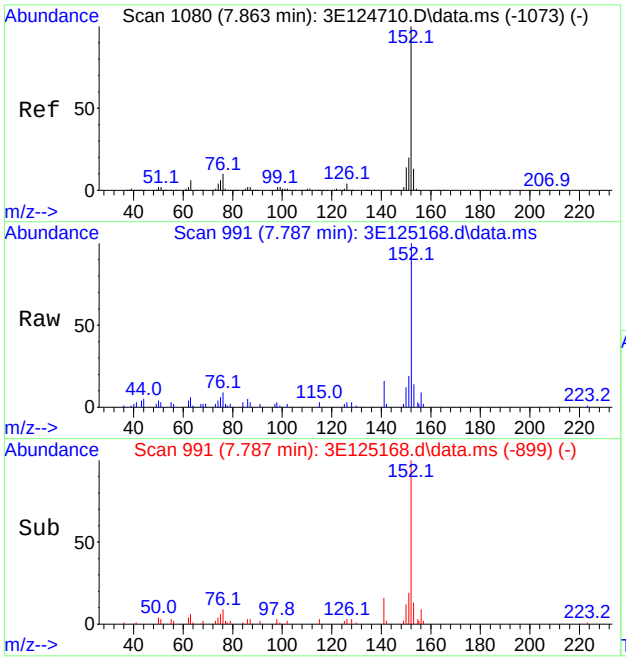


#53
Biphenyl
Concen: 0.3538 ppm
RT: 7.221 min Scan# 885
Delta R.T. -0.011 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:154 Resp: 2624

Ion	Ratio	Lower	Upper
154	100		
153	48.8	10.5	70.5
155	17.0	0.0	42.6

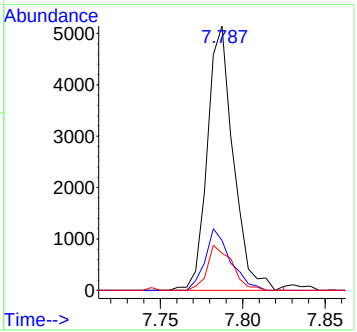


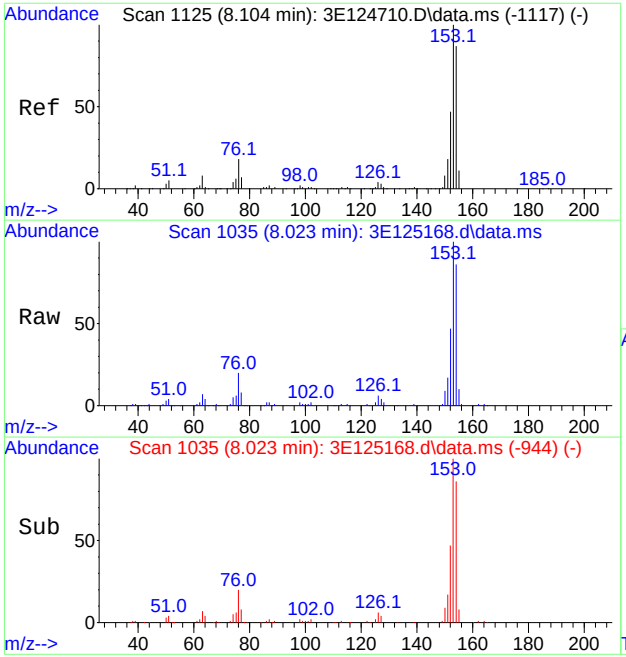


#56
Acenaphthylene
Concen: 0.6775 ppm
RT: 7.787 min Scan# 991
Delta R.T. -0.011 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:152 Resp: 5666

Ion	Ratio	Lower	Upper
152	100		
151	19.0	0.0	50.4
153	14.1	0.0	42.6

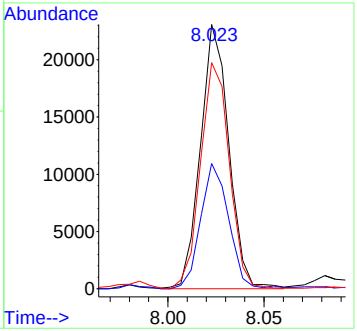


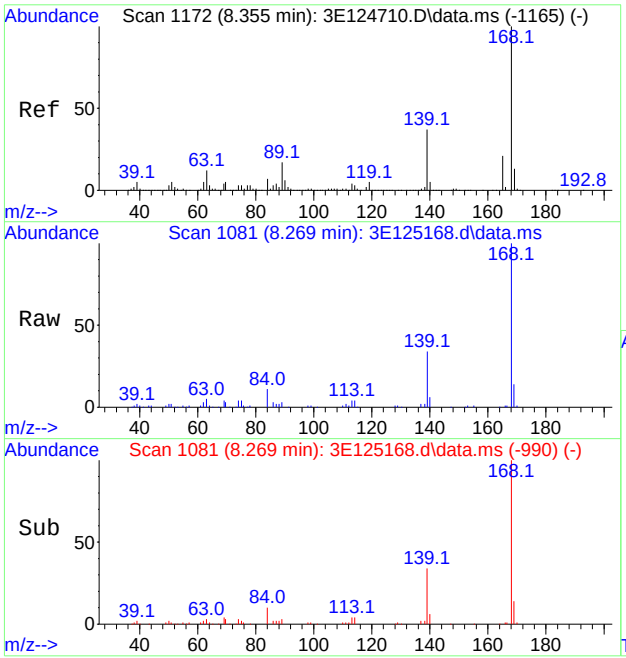


#59
Acenaphthene
Concen: 3.9028 ppm
RT: 8.023 min Scan# 1035
Delta R.T. -0.016 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:153 Resp: 23702

Ion	Ratio	Lower	Upper
153	100		
152	47.4	16.2	76.2
154	85.6	53.4	113.4

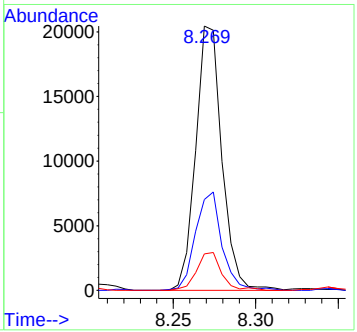


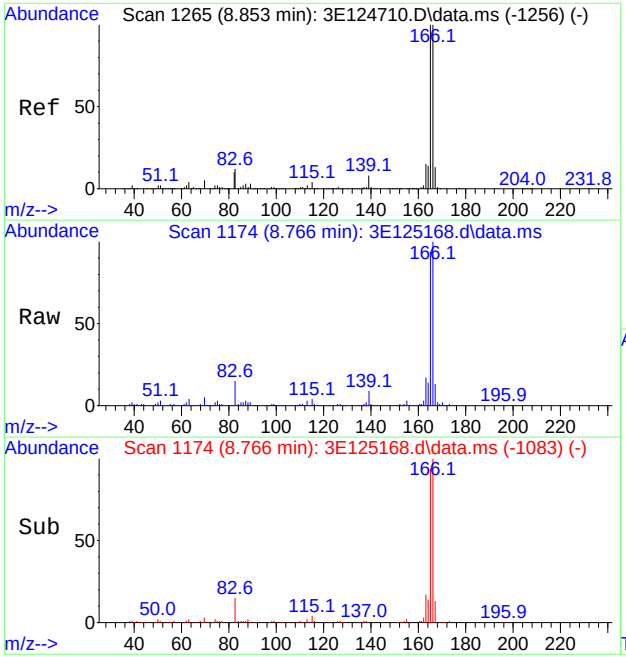


#62
Dibenzofuran
Concen: 2.8093 ppm
RT: 8.269 min Scan# 1081
Delta R.T. -0.016 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:168 Resp: 22611

Ion	Ratio	Lower	Upper
168	100		
139	34.4	7.9	67.9
169	13.9	0.0	43.4

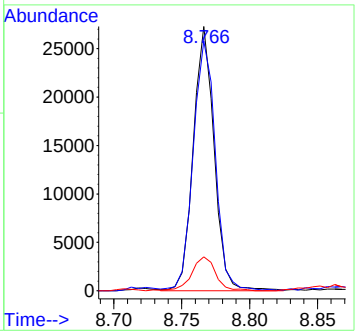


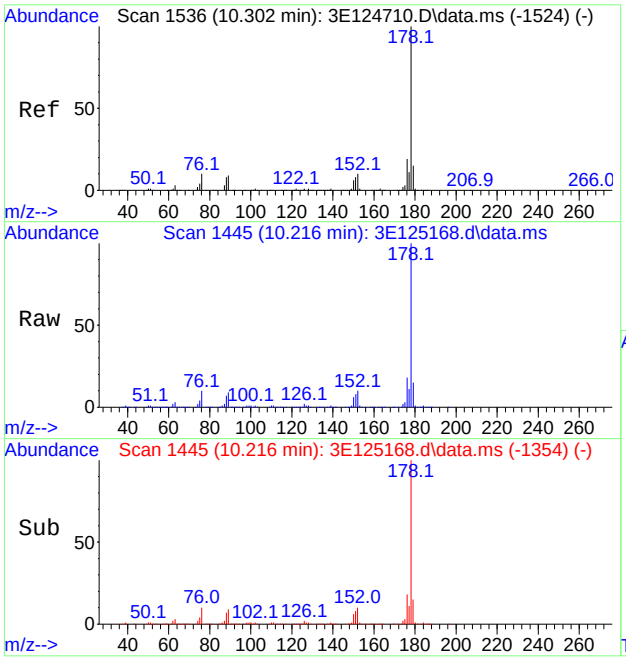


#66
Fluorene
Concen: 4.6386 ppm
RT: 8.766 min Scan# 1174
Delta R.T. -0.016 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:166 Resp: 29228

Ion	Ratio	Lower	Upper
166	100		
165	94.2	70.1	130.1
167	12.5	0.0	43.2

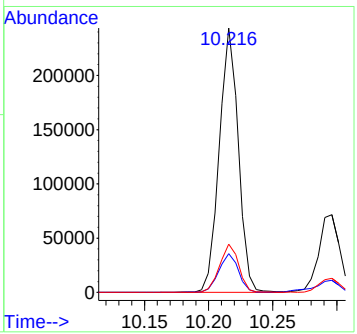


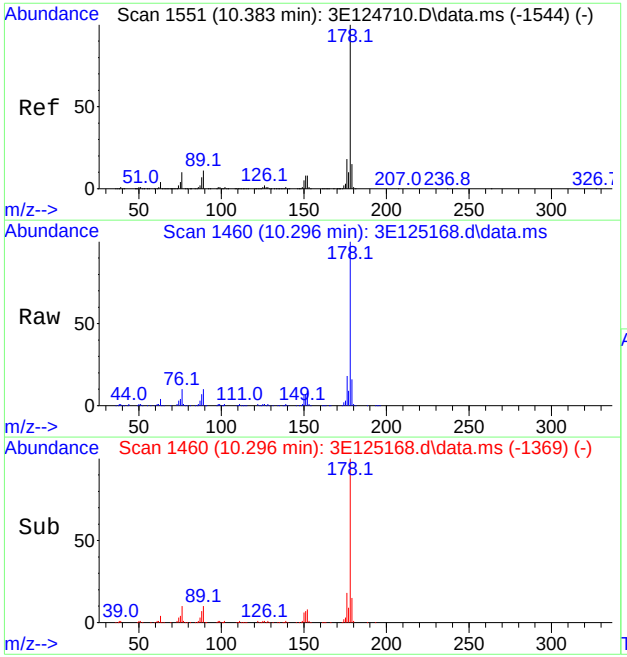


#78
Phenanthrene
Concen: 26.7360 ppm
RT: 10.216 min Scan# 1445
Delta R.T. -0.016 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:178 Resp: 252071

Ion	Ratio	Lower	Upper
178	100		
179	14.6	0.0	45.5
176	18.2	0.0	48.7

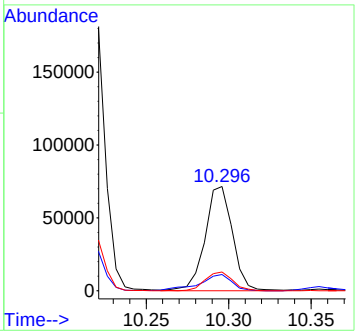


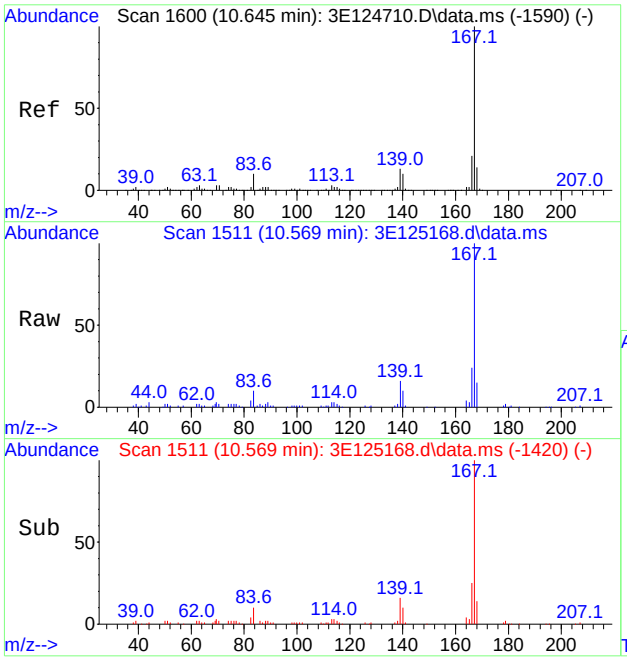


#79
Anthracene
Concen: 8.8693 ppm
RT: 10.296 min Scan# 1460
Delta R.T. -0.016 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:178 Resp: 82739

Ion	Ratio	Lower	Upper
178	100		
179	15.3	0.0	44.9
176	18.1	0.0	47.7

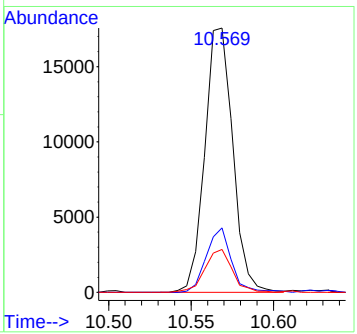


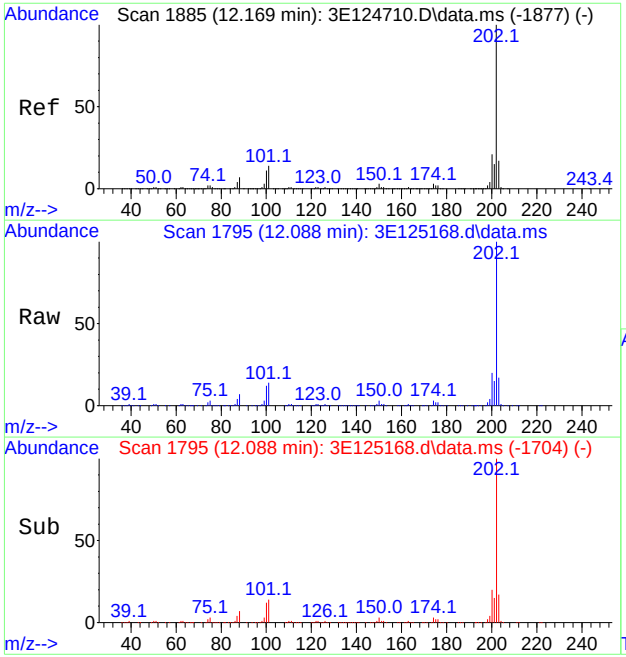


#80
Carbazole
Concen: 2.3460 ppm
RT: 10.569 min Scan# 1511
Delta R.T. -0.016 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:167 Resp: 20790

Ion	Ratio	Lower	Upper
167	100		
166	24.2	0.0	52.7
139	16.0	0.0	42.9

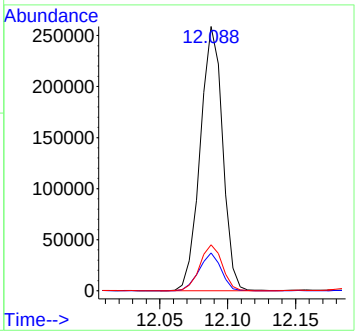


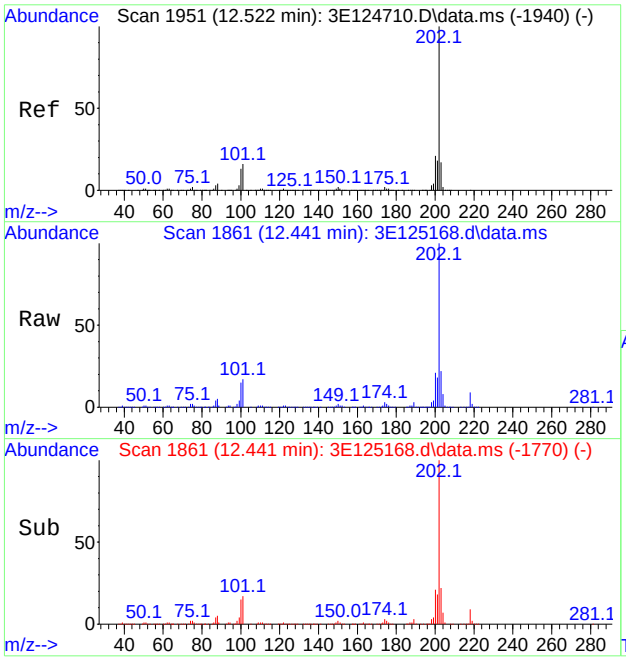


#82
Fluoranthene
Concen: 31.2392 ppm
RT: 12.088 min Scan# 1795
Delta R.T. -0.016 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:202 Resp: 296136

Ion	Ratio	Lower	Upper
202	100		
101	14.3	0.0	44.1
203	17.3	0.0	47.7

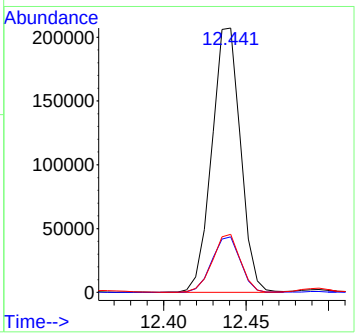


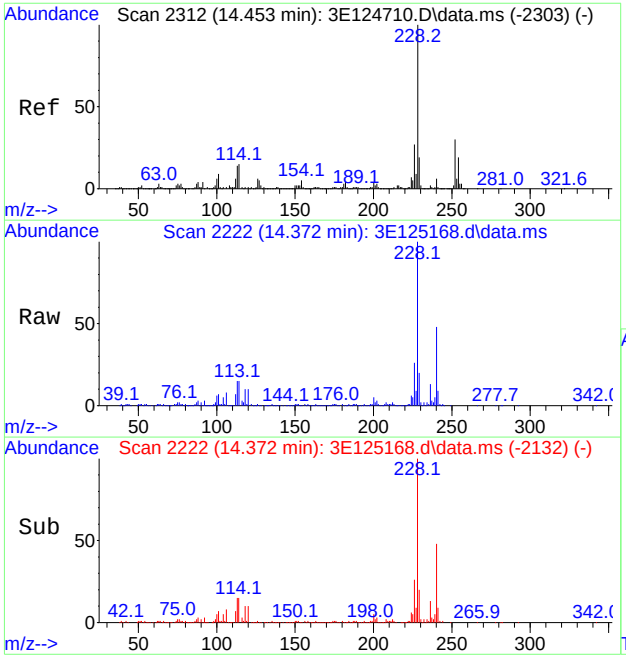


#86
Pyrene
Concen: 25.7634 ppm
RT: 12.441 min Scan# 1861
Delta R.T. -0.016 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:202 Resp: 251395

Ion	Ratio	Lower	Upper
202	100		
200	21.0	0.0	50.4
203	21.8	0.0	47.4

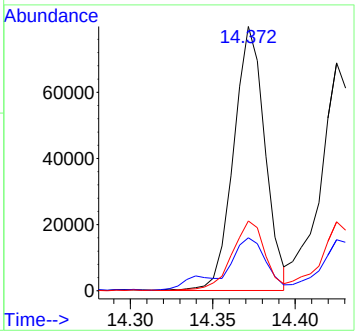


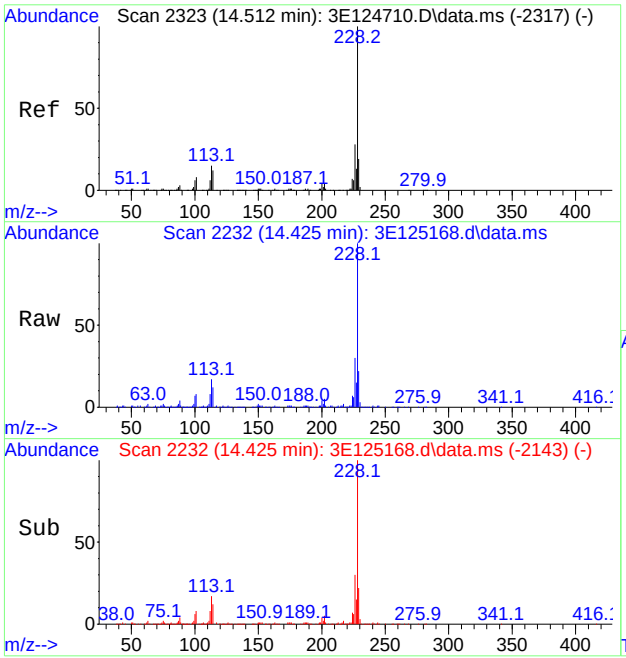


#89
Benzo[a]anthracene
Concen: 11.6942 ppm
RT: 14.372 min Scan# 2222
Delta R.T. -0.021 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:228 Resp: 105953

Ion	Ratio	Lower	Upper
228	100		
229	19.6	0.0	49.9
226	26.2	0.0	56.8

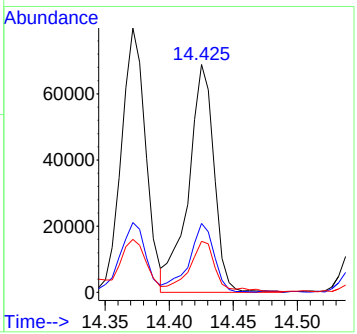


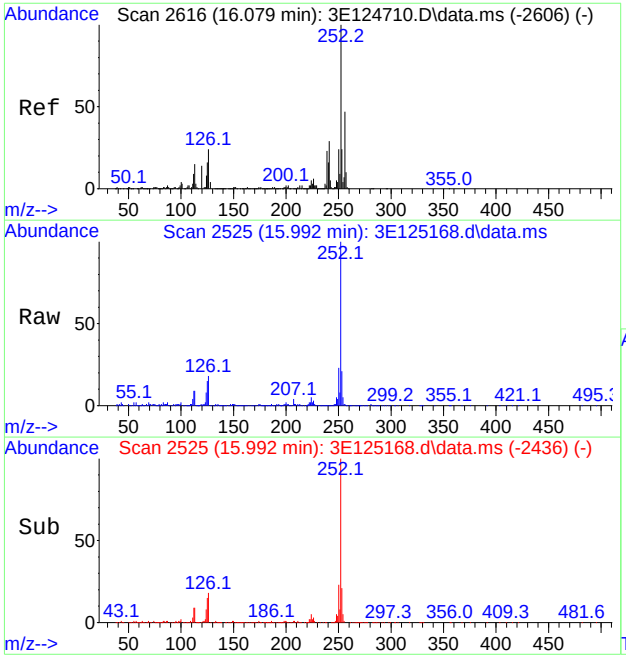


#91
Chrysene
Concen: 10.8992 ppm
RT: 14.425 min Scan# 2232
Delta R.T. -0.027 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:228 Resp: 95491

Ion	Ratio	Lower	Upper
228	100		
226	30.2	0.0	59.9
229	22.1	0.0	49.2

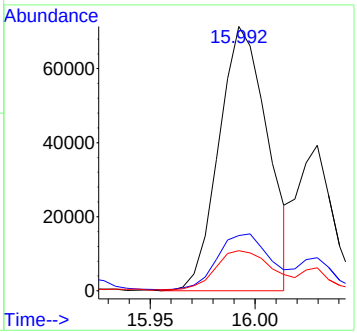


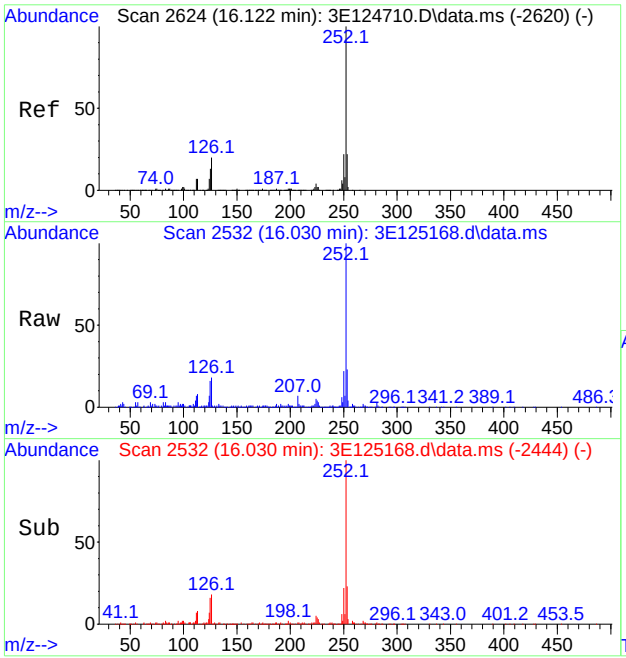


#95
Benzo[b]fluoranthene
Concen: 12.0476 ppm
RT: 15.992 min Scan# 2525
Delta R.T. -0.027 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:252 Resp: 115476

Ion	Ratio	Lower	Upper
252	100		
253	20.0	0.0	54.4
125	14.1	0.0	45.2

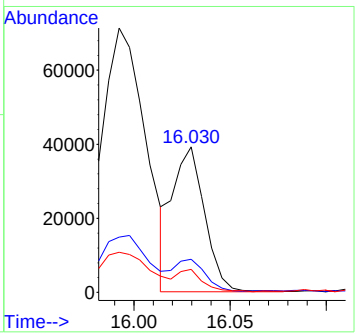


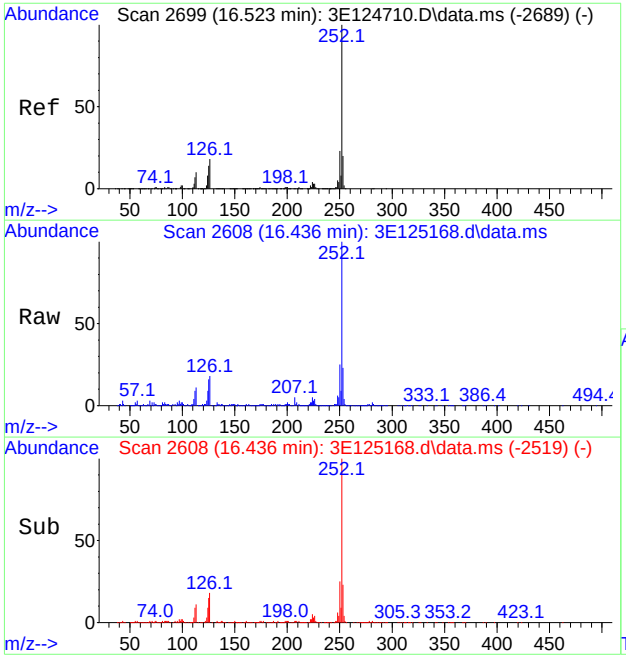


#96
Benzo[k]fluoranthene
Concen: 4.8391 ppm
RT: 16.030 min Scan# 2532
Delta R.T. -0.032 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:252 Resp: 45420

Ion	Ratio	Lower	Upper
252	100		
253	21.2	0.0	51.5
125	13.8	0.0	42.0

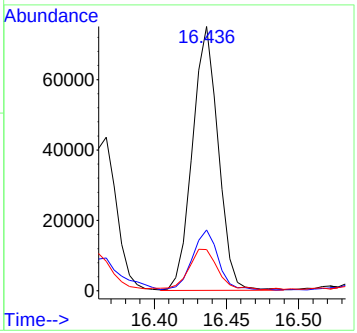


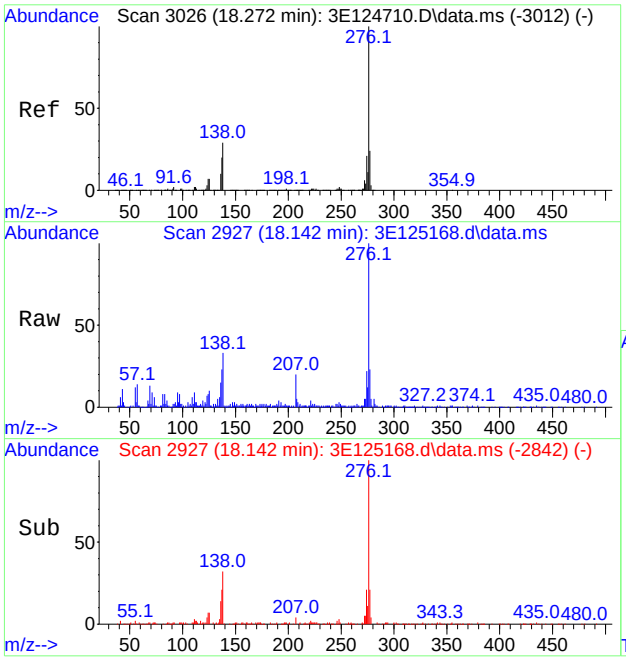


#97
Benzo[a]pyrene
Concen: 11.3978 ppm
RT: 16.436 min Scan# 2608
Delta R.T. -0.027 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:252 Resp: 93142

Ion	Ratio	Lower	Upper
252	100		
253	22.7	0.0	51.7
125	14.9	0.0	44.7

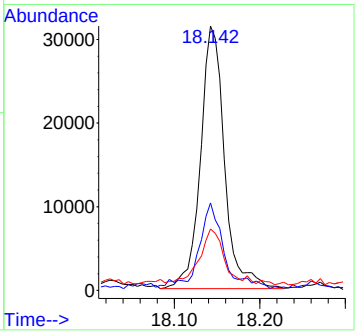


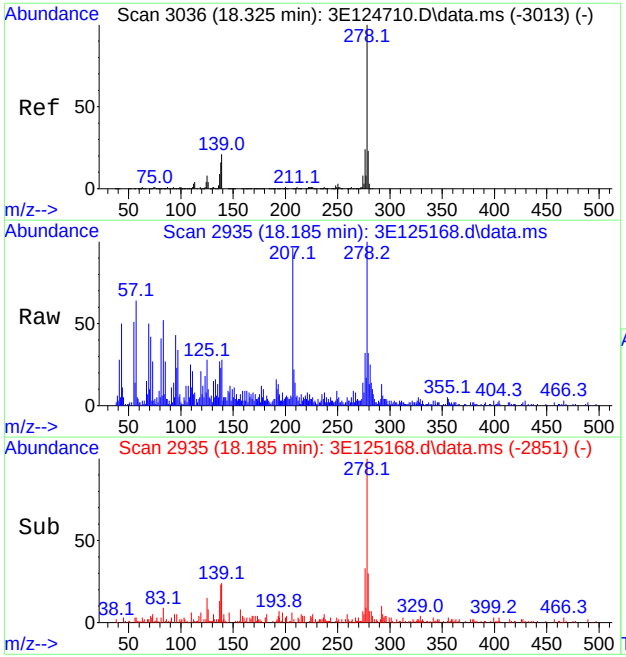


#98
Indeno[1,2,3-cd]pyrene
Concen: 7.5845 ppm
RT: 18.142 min Scan# 2927
Delta R.T. -0.048 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:276 Resp: 61433

Ion	Ratio	Lower	Upper
276	100		
138	31.6	0.0	51.9
137	19.7	0.0	46.9

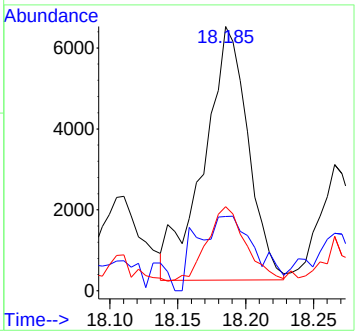


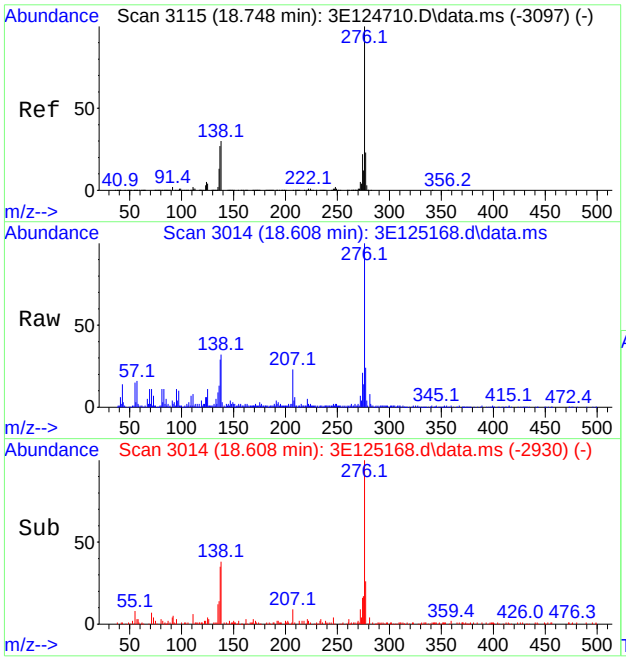


#100
Dibenz[a,h]anthracene
Concen: 1.7408 ppm
RT: 18.185 min Scan# 2935
Delta R.T. -0.053 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:278 Resp: 14186

Ion	Ratio	Lower	Upper
278	100		
139	20.8	0.0	48.4
279	28.7	0.0	54.5

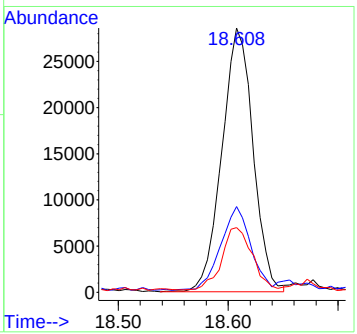




#102
Benzo[g,h,i]perylene
Concen: 7.4022 ppm
RT: 18.608 min Scan# 3014
Delta R.T. -0.053 min
Lab File: 3E125168.d
Acq: 5 Jul 2024 3:24 pm

Tgt Ion:276 Resp: 56534

Ion	Ratio	Lower	Upper
276	100		
138	30.3	0.0	55.4
277	23.1	0.0	53.6



Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 07/08/24 00:16

Quantitation Report (LSC Reviewed)

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3 Inst : GCMS_CT
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 08 03:39:39 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

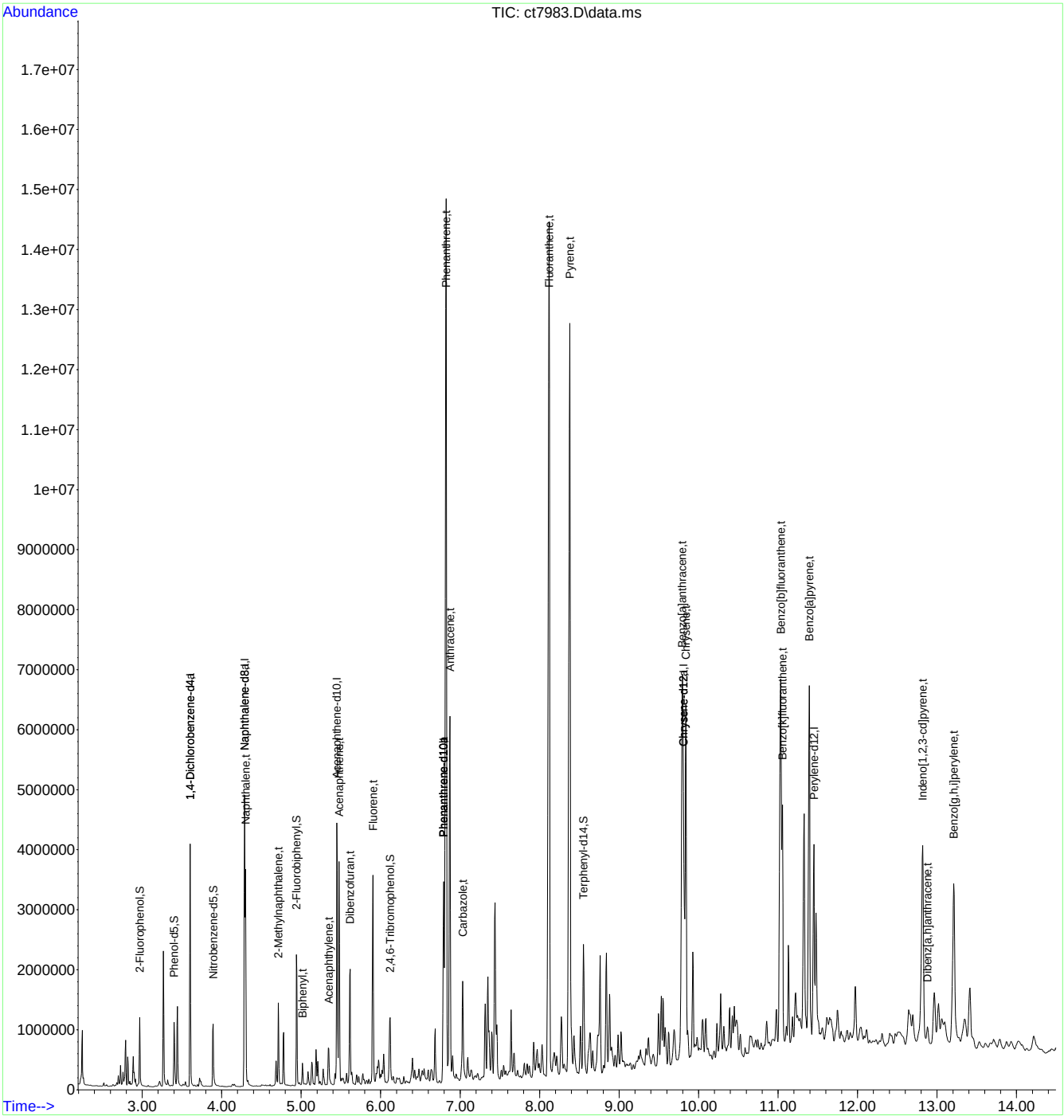
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.605	152	423002	40.00	ppm	0.00
24) Naphthalene-d8	4.289	136	1562611	40.00	ppm	0.00
46) Acenaphthene-d10	5.450	164	832637	40.00	ppm	0.00
69) Phenanthrene-d10	6.792	188	1404644	40.00	ppm	0.00
84) Chrysene-d12	9.809	240	996515	40.00	ppm	0.00
93) Perylene-d12	11.451	264	1304256	40.00	ppm	0.01
103) 1,4-Dichlorobenzene-d4a	3.605	152	423002	40.00	ppm	0.00
105) Phenanthrene-d10a	6.792	188	1404644	40.00	ppm	0.00
107) Naphthalene-d8a	4.289	136	1562611	40.00	ppm	0.00
109) Phenanthrene-d10b	6.792	188	1404644	40.00	ppm	0.00
112) Chrysene-d12a	9.809	240	996515	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.968	112	235901	17.29	ppm	0.00
Spiked Amount 50.000			Recovery = 34.58%			
8) Phenol-d5	3.401	99	315096	18.44	ppm	0.00
Spiked Amount 50.000			Recovery = 36.88%			
25) Nitrobenzene-d5	3.893	82	305587	19.02	ppm	0.00
Spiked Amount 50.000			Recovery = 38.04%			
51) 2-Fluorobiphenyl	4.942	172	572141	22.02	ppm	-0.01
Spiked Amount 50.000			Recovery = 44.04%			
74) 2,4,6-Tribromophenol	6.118	330	65362	24.49	ppm	0.00
Spiked Amount 50.000			Recovery = 48.98%			
87) Terphenyl-d14	8.552	244	551342	22.32	ppm	-0.02
Spiked Amount 50.000			Recovery = 44.64%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
38) Naphthalene	4.300	128	1066459	27.0778	ppm	100
44) 2-Methylnaphthalene	4.712	141	275153	11.9297	ppm	98
53) Biphenyl	5.017	154	96552	3.2600	ppm	99
56) Acenaphthylene	5.348	152	237520	7.4990	ppm	99
59) Acenaphthene	5.477	153	747394	31.1940	ppm	98
62) Dibenzofuran	5.616	168	703685	22.0036	ppm	100
66) Fluorene	5.905	166	934522	36.8901	ppm	98
78) Phenanthrene	6.824	178	6172097	170.8637	ppm	99
79) Anthracene	6.873	178	2362315	67.6029	ppm	99
80) Carbazole	7.033	167	639718	18.9977	ppm	99
82) Fluoranthene	8.119	202	7116452	205.9840	ppm	96
86) Pyrene	8.381	202	6183931	174.7461	ppm	98
89) Benzo[a]anthracene	9.793	228	2843160	91.6196	ppm	97
91) Chrysene	9.841	228	2447674	80.4738	ppm	96
95) Benzo[b]fluoranthene	11.034	252	3429237m	92.6133	ppm	
96) Benzo[k]fluoranthene	11.055	252	1289294m	35.2990	ppm	
97) Benzo[a]pyrene	11.392	252	2750930	91.1067	ppm	98
98) Indeno[1,2,3-cd]pyrene	12.820	276	1938522	49.9884	ppm	96
100) Dibenz[a,h]anthracene	12.879	278	160038	5.1223	ppm	100
102) Benzo[g,h,i]perylene	13.211	276	1880475	62.8755	ppm	99

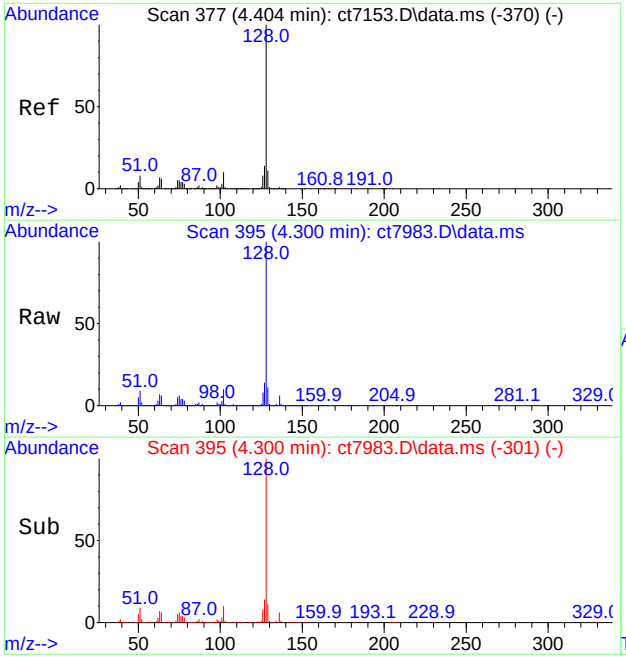
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (LSC Reviewed)

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3 Inst : GCMS_CT
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 08 03:39:39 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

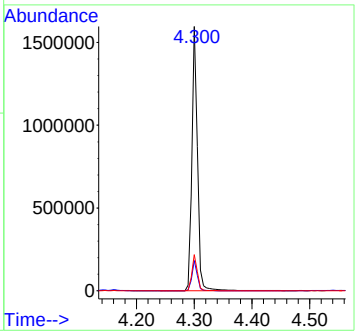


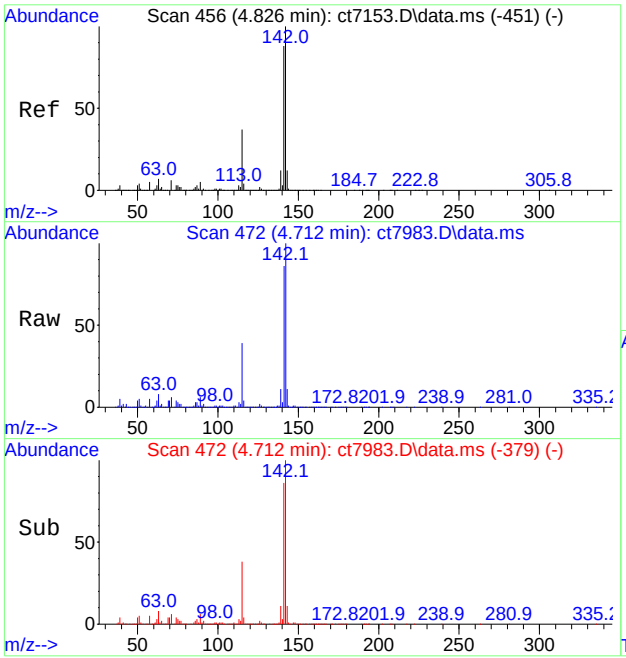


#38
Naphthalene
Concen: 27.0778 ppm
RT: 4.300 min Scan# 395
Delta R.T. 0.000 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:128 Resp: 1066459

Ion	Ratio	Lower	Upper
128	100		
129	11.5	0.0	41.4
127	13.7	0.0	43.8

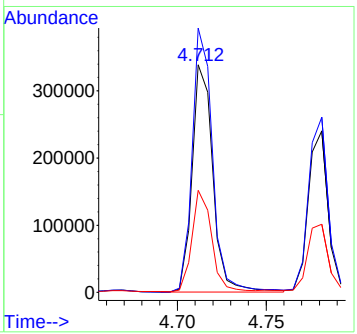


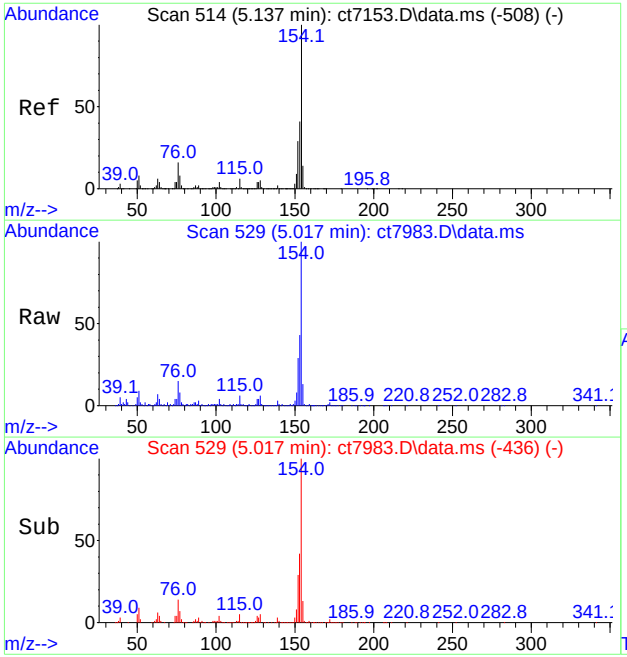


#44
2-Methylnaphthalene
Concen: 11.9297 ppm
RT: 4.712 min Scan# 472
Delta R.T. -0.002 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:141 Resp: 275153

Ion	Ratio	Lower	Upper
141	100		
142	116.2	85.1	145.1
115	44.4	12.5	72.5

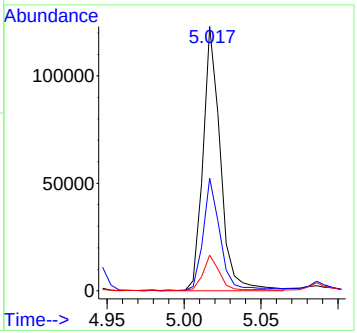


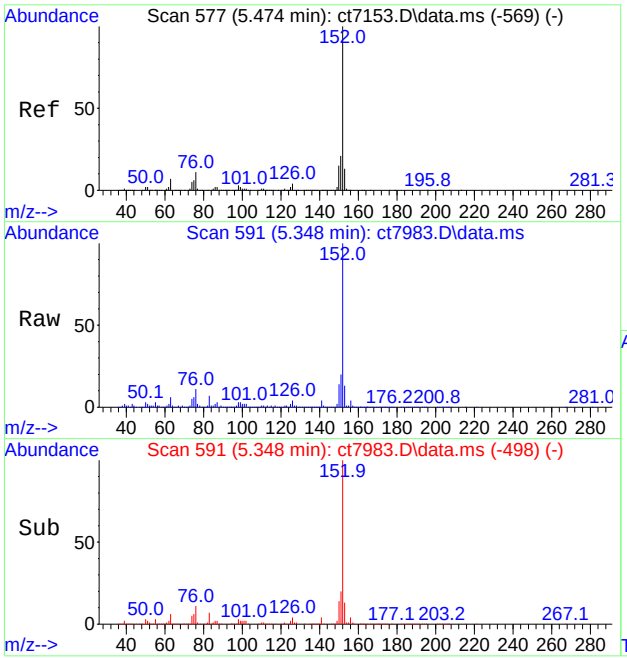


#53
Biphenyl
Concen: 3.2600 ppm
RT: 5.017 min Scan# 529
Delta R.T. -0.004 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:154 Resp: 96552

Ion	Ratio	Lower	Upper
154	100		
153	42.3	11.7	71.7
155	13.3	0.0	43.3

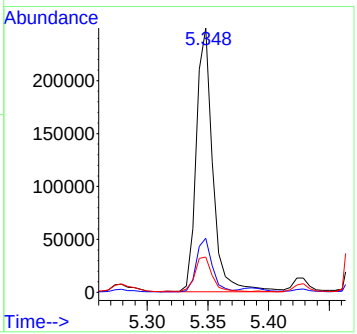


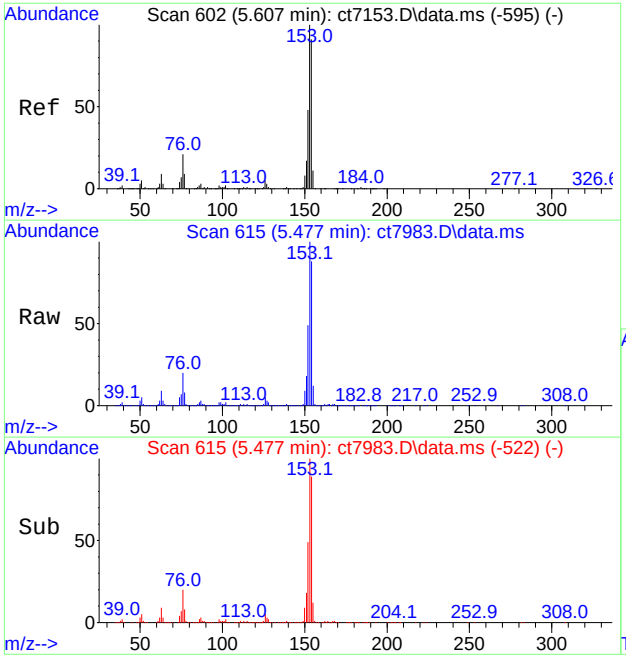


#56
Acenaphthylene
Concen: 7.4990 ppm
RT: 5.348 min Scan# 591
Delta R.T. -0.002 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:152 Resp: 237520

Ion	Ratio	Lower	Upper
152	100		
151	20.2	0.0	50.9
153	13.1	0.0	43.3

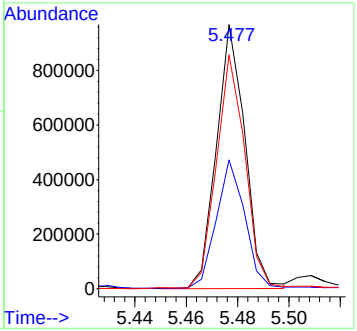


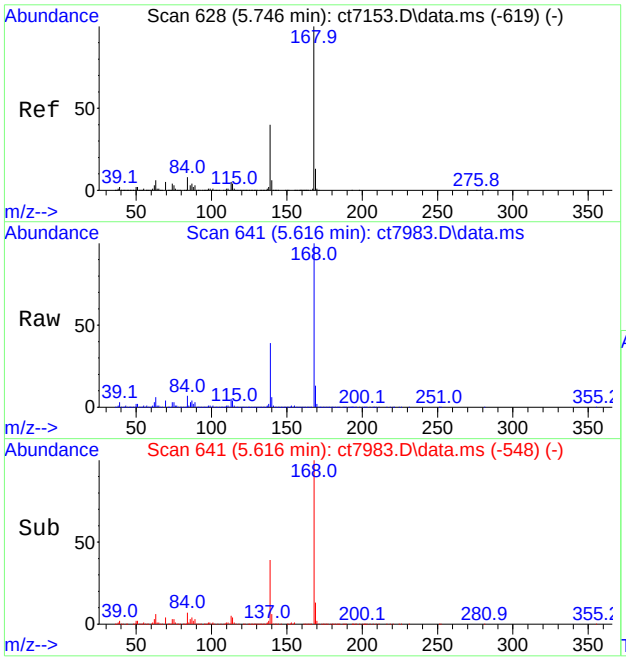


#59
Acenaphthene
Concen: 31.1940 ppm
RT: 5.477 min Scan# 615
Delta R.T. -0.005 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:153 Resp: 747394

Ion	Ratio	Lower	Upper
153	100		
152	48.8	18.3	78.3
154	88.7	60.9	120.9

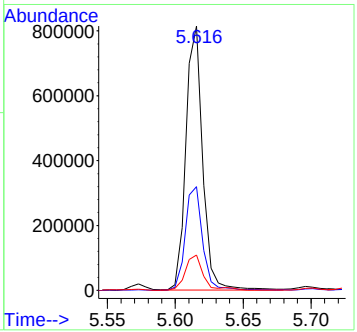


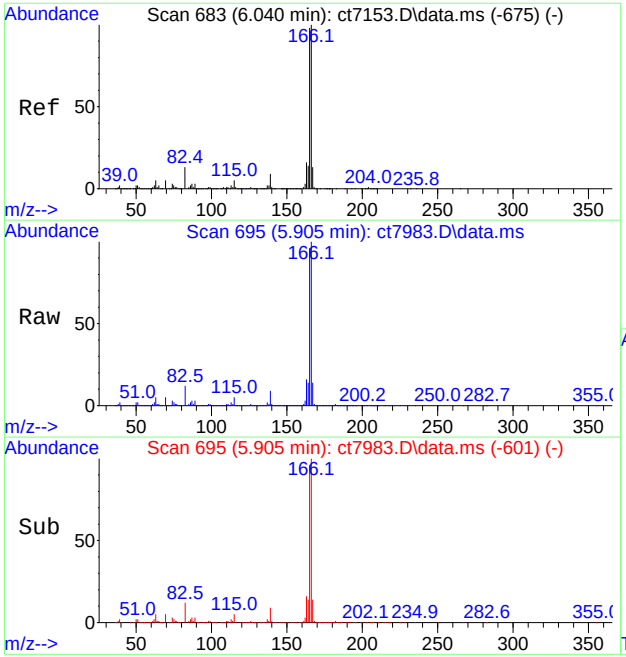


#62
Dibenzofuran
Concen: 22.0036 ppm
RT: 5.616 min Scan# 641
Delta R.T. -0.002 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:168 Resp: 703685

Ion	Ratio	Lower	Upper
168	100		
139	39.2	9.5	69.5
169	13.3	0.0	43.4

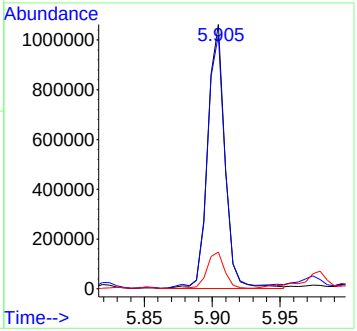


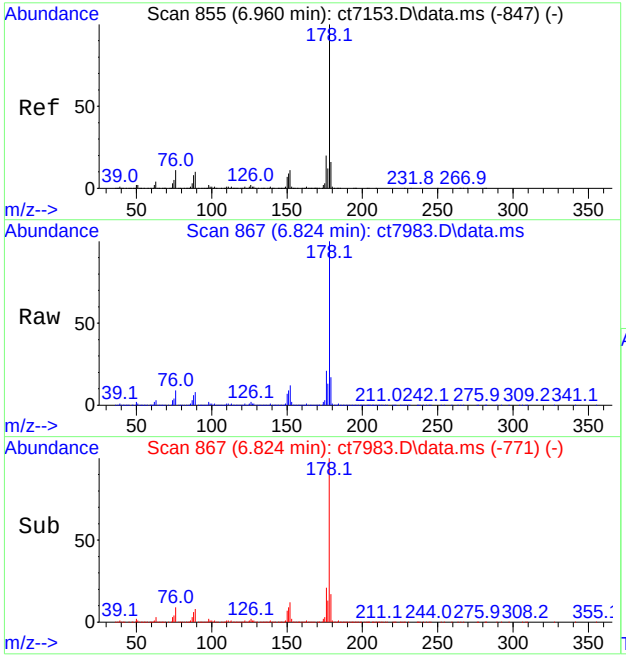


#66
Fluorene
Concen: 36.8901 ppm
RT: 5.905 min Scan# 695
Delta R.T. 0.004 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:166 Resp: 934522

Ion	Ratio	Lower	Upper
166	100		
165	95.6	67.6	127.6
167	13.2	0.0	43.5

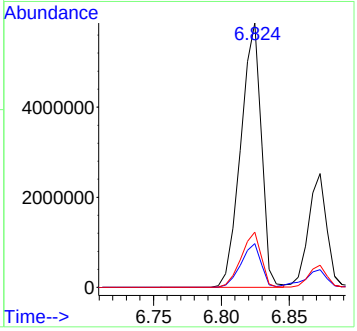


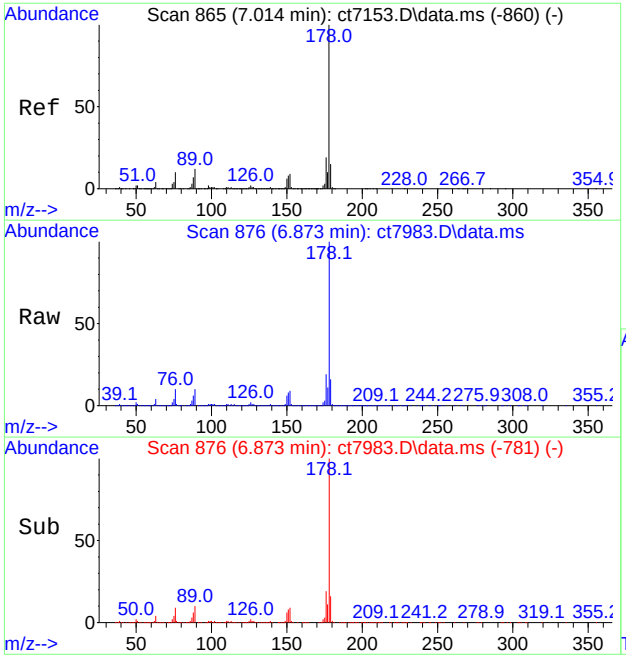


#78
Phenanthrene
Concen: 170.8637 ppm
RT: 6.824 min Scan# 867
Delta R.T. 0.011 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:178 Resp: 6172097

Ion	Ratio	Lower	Upper
178	100		
179	16.2	0.0	46.0
176	20.9	0.0	50.0

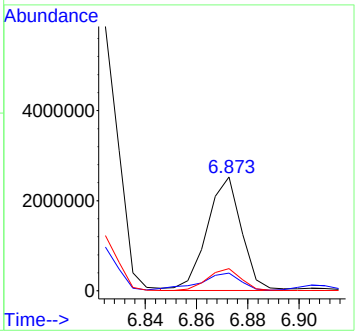


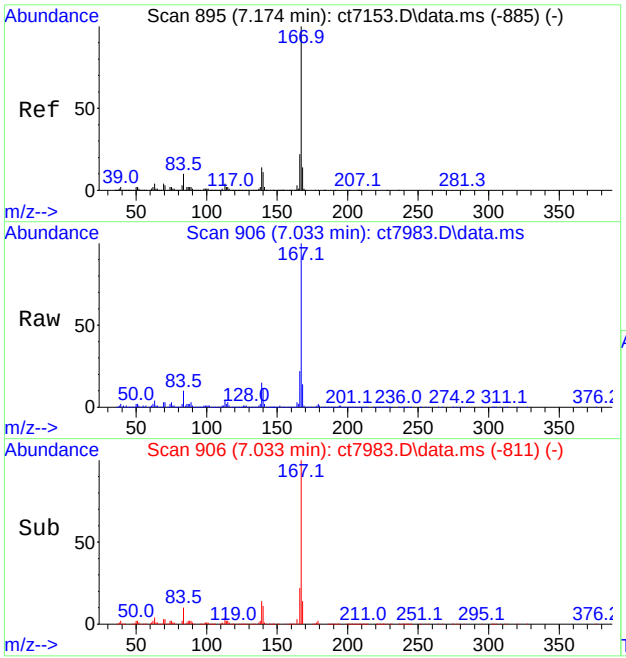


#79
Anthracene
Concen: 67.6029 ppm
RT: 6.873 min Scan# 876
Delta R.T. 0.007 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:178 Resp: 2362315

Ion	Ratio	Lower	Upper
178	100		
179	14.3	0.0	45.5
176	19.5	0.0	49.3

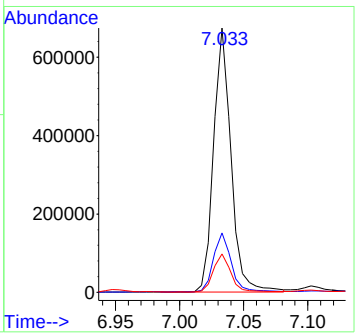


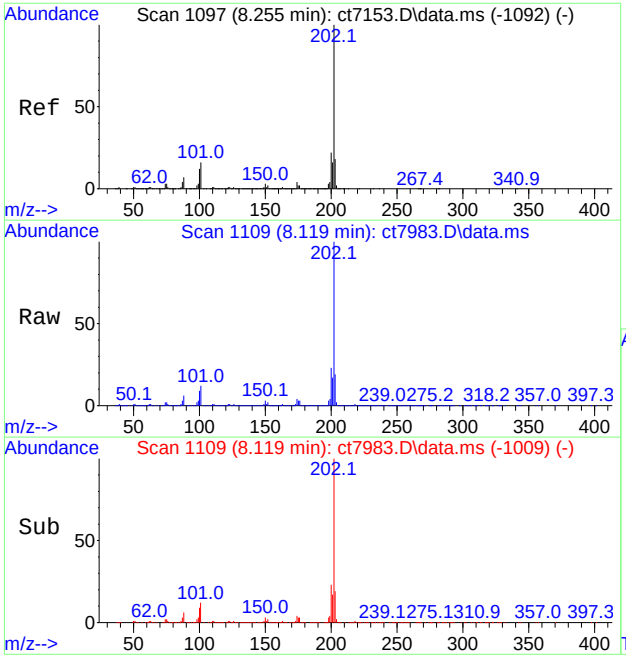


#80
Carbazole
Concen: 18.9977 ppm
RT: 7.033 min Scan# 906
Delta R.T. 0.010 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:167 Resp: 639718

Ion	Ratio	Lower	Upper
167	100		
166	22.3	0.0	51.7
139	14.4	0.0	43.9

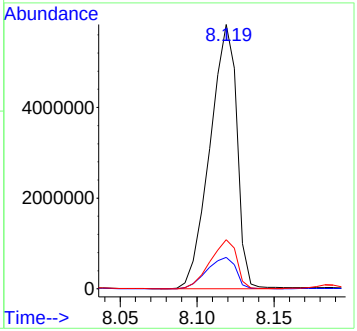


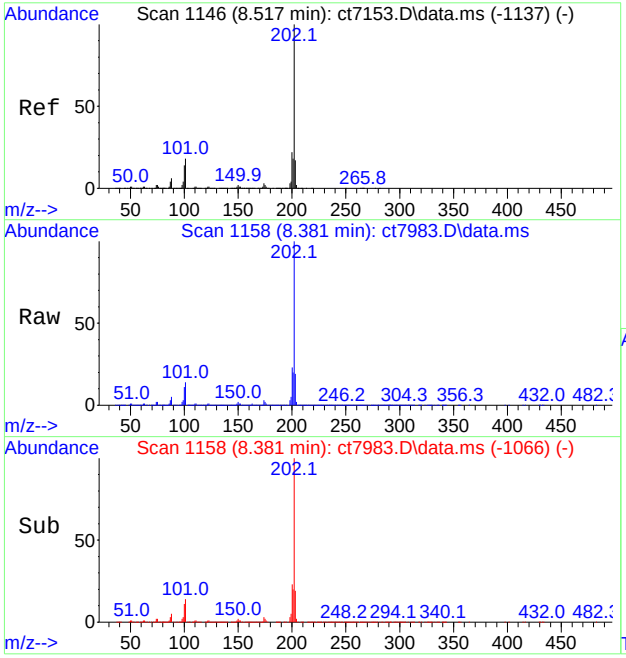


#82
Fluoranthene
Concen: 205.9840 ppm
RT: 8.119 min Scan# 1109
Delta R.T. 0.035 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:202 Resp: 7116452

Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	45.3
203	18.5	0.0	48.1

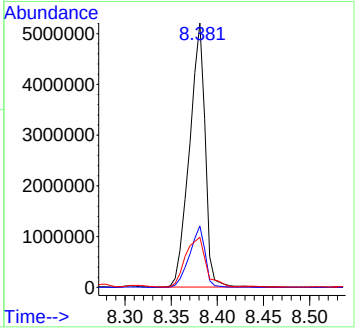


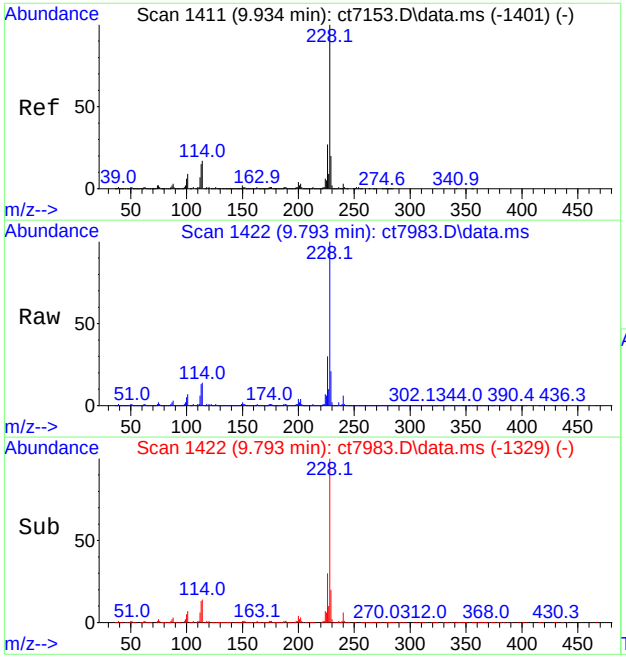


#86
Pyrene
Concen: 174.7461 ppm
RT: 8.381 min Scan# 1158
Delta R.T. -0.008 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:202 Resp: 6183931

Ion	Ratio	Lower	Upper
202	100		
200	23.2	0.0	52.3
203	19.0	0.0	47.9

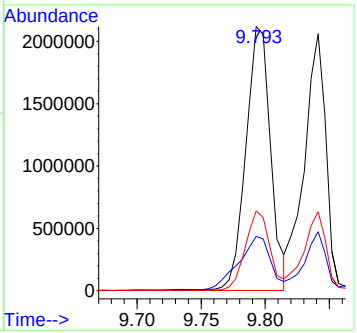


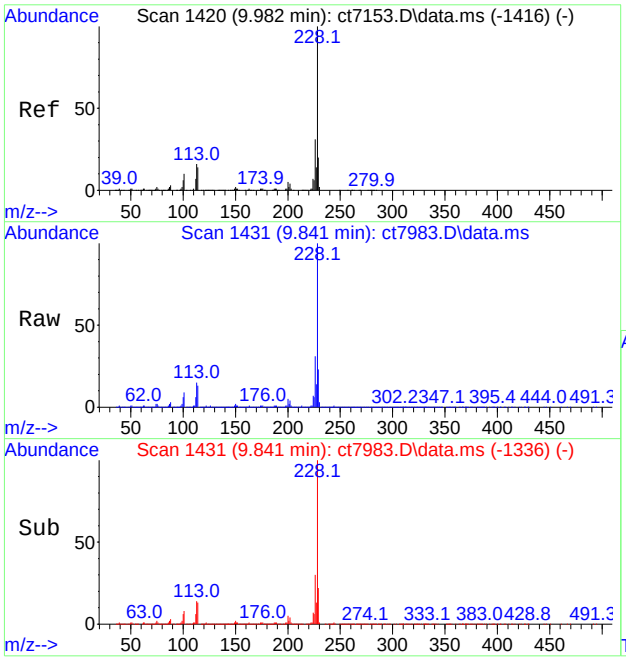


#89
Benzo[a]anthracene
Concen: 91.6196 ppm
RT: 9.793 min Scan# 1422
Delta R.T. -0.000 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:228 Resp: 2843160

Ion	Ratio	Lower	Upper
228	100		
229	20.1	0.0	50.0
226	30.1	0.0	57.3

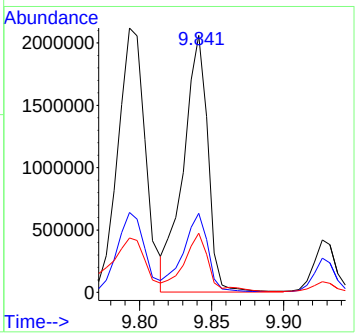


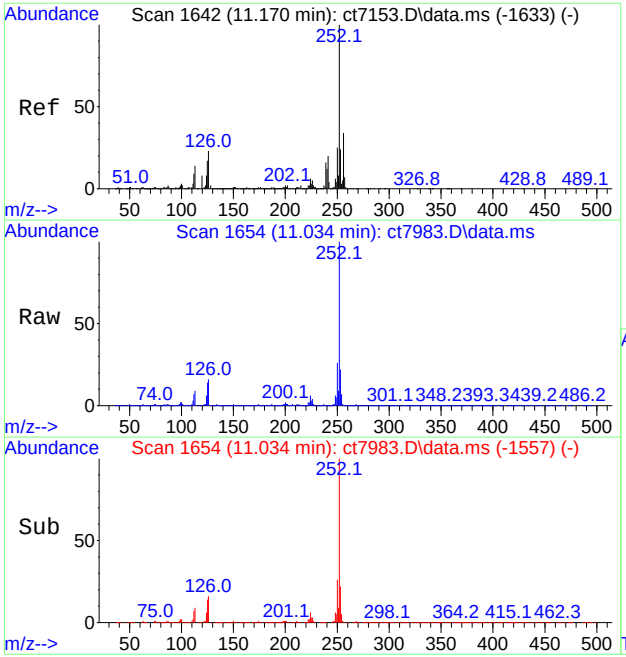


#91
Chrysene
Concen: 80.4738 ppm
RT: 9.841 min Scan# 1431
Delta R.T. 0.006 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:228 Resp: 2447674

Ion	Ratio	Lower	Upper
228	100		
226	30.5	1.8	61.8
229	22.7	0.0	49.9

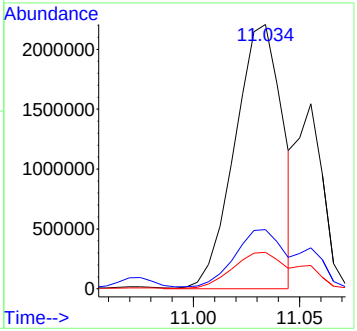


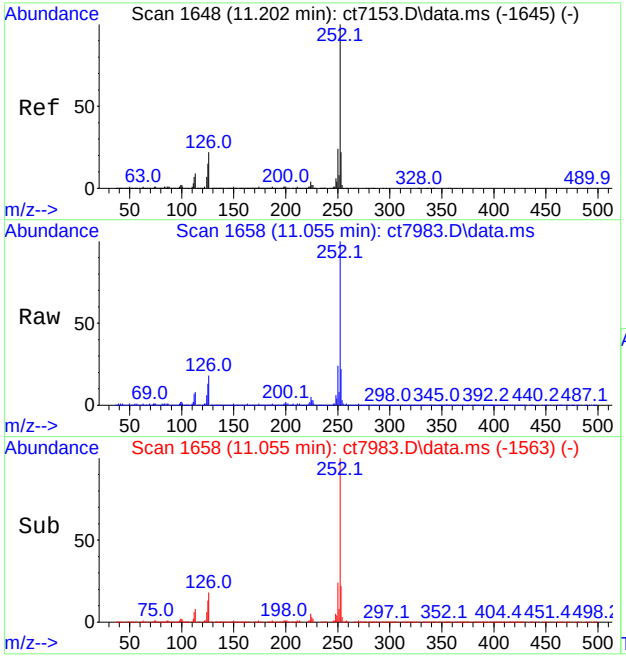


#95
Benzo[b]fluoranthene
Concen: 92.6133 ppm m
RT: 11.034 min Scan# 1654
Delta R.T. 0.016 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:252 Resp: 3429237

Ion	Ratio	Lower	Upper
252	100		
253	22.4	0.0	53.9
125	13.8	0.0	45.9

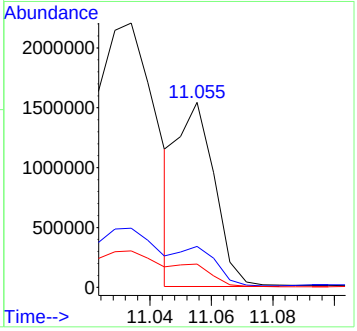


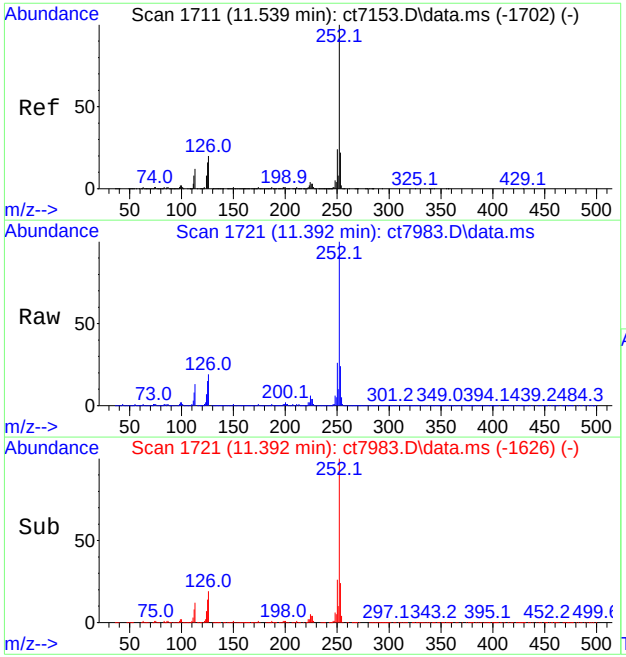


#96
Benzo[k]fluoranthene
Concen: 35.2990 ppm m
RT: 11.055 min Scan# 1658
Delta R.T. 0.006 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:252 Resp: 1289294

Ion	Ratio	Lower	Upper
252	100		
253	22.1	0.0	51.8
125	12.7	0.0	43.8

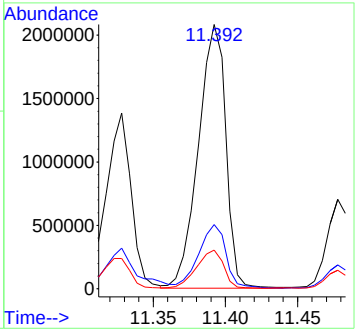


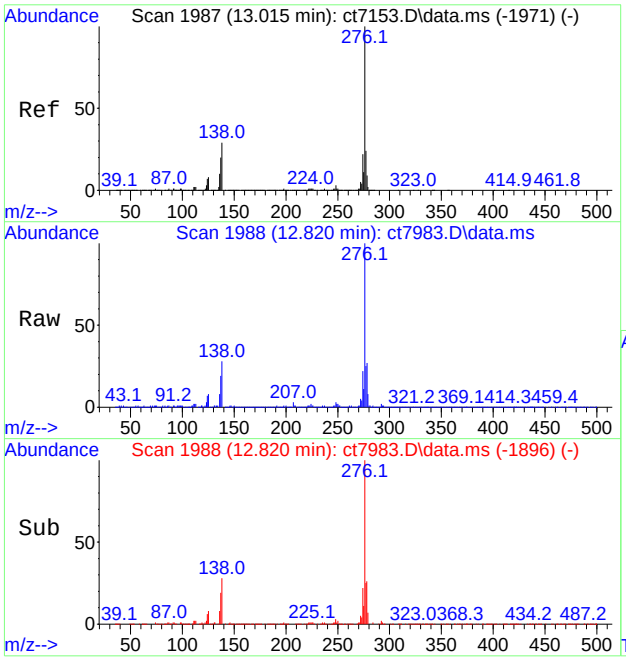


#97
Benzo[a]pyrene
Concen: 91.1067 ppm
RT: 11.392 min Scan# 1721
Delta R.T. 0.010 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:252 Resp: 2750930

Ion	Ratio	Lower	Upper
252	100		
253	22.9	0.0	51.9
125	14.4	0.0	44.9

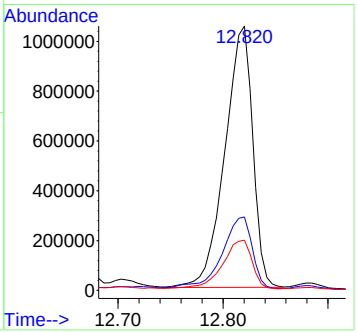


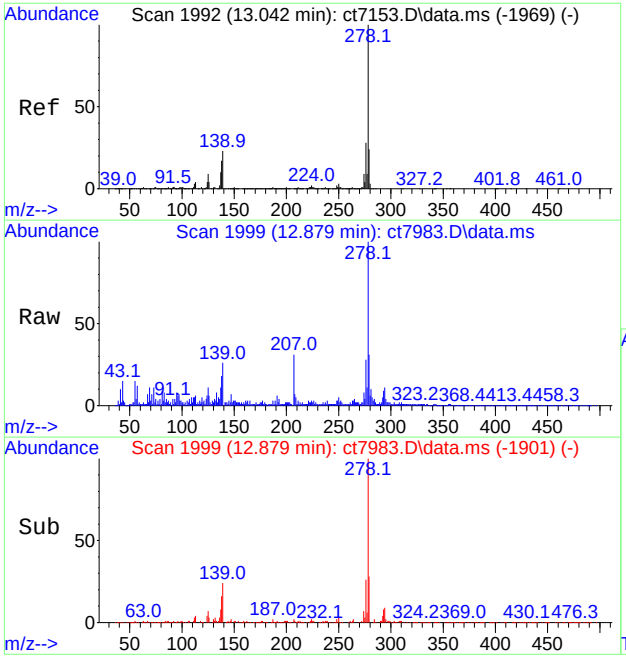


#98
Indeno[1,2,3-cd]pyrene
Concen: 49.9884 ppm
RT: 12.820 min Scan# 1988
Delta R.T. -0.010 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:276 Resp: 1938522

Ion	Ratio	Lower	Upper
276	100		
138	27.3	0.0	59.6
137	18.5	0.0	50.8

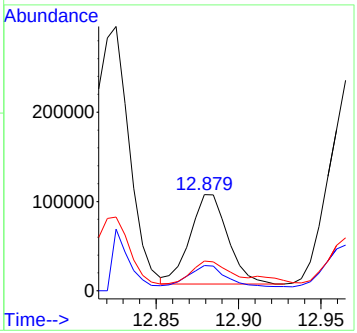


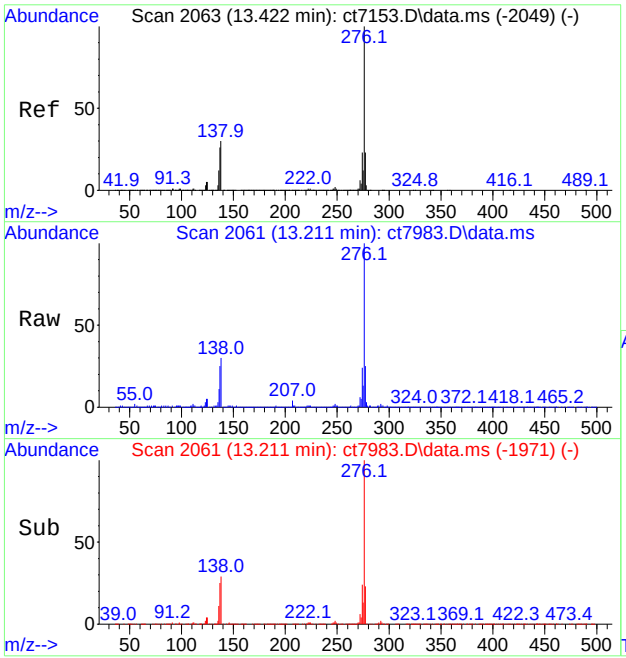


#100
Dibenz[a,h]anthracene
Concen: 5.1223 ppm
RT: 12.879 min Scan# 1999
Delta R.T. 0.023 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:278 Resp: 160038

Ion	Ratio	Lower	Upper
278	100		
139	23.8	0.0	54.0
279	24.3	0.0	54.5

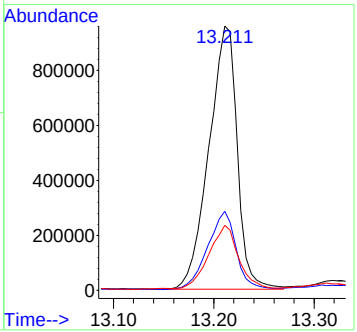




#102
Benzo[g,h,i]perylene
Concen: 62.8755 ppm
RT: 13.211 min Scan# 2061
Delta R.T. -0.021 min
Lab File: ct7983.D
Acq: 03 Jul 2024 03:43 pm

Tgt Ion:276 Resp: 1880475

Ion	Ratio	Lower	Upper
276	100		
138	29.5	0.0	59.8
277	24.0	0.0	53.4



LSC Area Percent Report

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: ct7983.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.289	388	393	414	rBV2	4856129	5680089	32.11%	2.630%
2	4.685	456	467	470	rBV	418556	360382	2.04%	0.167%
3	4.712	470	472	477	rVV	1374377	1067450	6.03%	0.494%
4	4.781	481	485	491	rVB	881016	716076	4.05%	0.332%
5	4.942	511	515	520	rBV	2190625	1724090	9.75%	0.798%
6	5.134	547	551	557	rBV	387635	427256	2.42%	0.198%
7	5.188	558	561	563	rVV	591854	490238	2.77%	0.227%
8	5.209	563	565	568	rVV	395822	299261	1.69%	0.139%
9	5.343	583	590	602	rBV2	616264	690093	3.90%	0.320%
10	5.450	602	610	613	rBV	4362229	3907270	22.09%	1.809%
11	5.477	613	615	619	rVV	3710172	2775373	15.69%	1.285%
12	5.616	636	641	653	rVB	1927494	2026345	11.45%	0.938%
13	5.905	688	695	700	rBV	3478225	3165483	17.89%	1.466%
14	5.974	700	708	711	rVV4	379083	711146	4.02%	0.329%
15	6.038	714	720	728	rVB2	479661	608810	3.44%	0.282%
16	6.118	728	735	740	rBV2	1084653	1324884	7.49%	0.614%
17	6.402	780	788	791	rBV2	419548	582131	3.29%	0.270%
18	6.685	837	841	847	rVB	901595	909077	5.14%	0.421%
19	6.792	855	861	863	rBV	3355152	3816922	21.58%	1.768%
20	6.824	863	867	871	rVV	14685585	15444228	87.30%	7.152%
21	6.873	871	876	880	rVV	6059929	5926959	33.50%	2.745%
22	6.905	880	882	888	rVV	404556	443062	2.50%	0.205%
23	7.033	898	906	914	rBV	1656907	1921149	10.86%	0.890%
24	7.097	914	918	922	rVV4	365305	399724	2.26%	0.185%
25	7.317	947	959	962	rBV	1269484	1414288	7.99%	0.655%
26	7.349	962	965	971	rVV2	1692596	2282881	12.90%	1.057%
27	7.397	971	974	978	rVV	772548	841087	4.75%	0.390%
28	7.440	978	982	993	rVB2	2943964	4041700	22.85%	1.872%
29	7.643	1011	1020	1023	rVV	1129651	1239936	7.01%	0.574%
30	7.680	1023	1027	1032	rVV	402698	486340	2.75%	0.225%
31	7.809	1045	1051	1055	rBV	243270	327069	1.85%	0.151%
32	7.926	1068	1073	1076	rBV	591613	702173	3.97%	0.325%
33	7.969	1077	1081	1084	rVV2	345296	397223	2.25%	0.184%
34	8.033	1089	1093	1102	rVB3	532803	726961	4.11%	0.337%
35	8.119	1102	1109	1116	rBV	14243701	17456321	98.68%	8.084%
36	8.183	1116	1121	1125	rBV2	323897	550110	3.11%	0.255%
37	8.215	1125	1127	1132	rVB2	309139	326836	1.85%	0.151%
38	8.274	1132	1138	1142	rBV2	962580	1217845	6.88%	0.564%
39	8.381	1150	1158	1165	rBV	12471166	17690538	100.00%	8.192%
40	8.434	1165	1168	1176	rVB3	621658	828520	4.68%	0.384%

LSC Area Percent Report

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	8.515	1179	1183	1186	rBV	796004	825400	4.67%	0.382%
42	8.552	1186	1190	1198	rVB2	2154192	2416305	13.66%	1.119%
43	8.632	1198	1205	1209	rBV3	679305	1311296	7.41%	0.607%
44	8.670	1209	1212	1217	rVB	340329	339102	1.92%	0.157%
45	8.761	1217	1229	1234	rVB	1955140	3098112	17.51%	1.435%
46	8.841	1240	1244	1247	rBV	1921587	1914195	10.82%	0.886%
47	8.878	1247	1251	1262	rVB2	1200333	1783384	10.08%	0.826%
48	8.985	1268	1271	1275	rBV	540865	580195	3.28%	0.269%
49	9.023	1275	1278	1288	rVB2	589252	760616	4.30%	0.352%
50	9.242	1310	1319	1321	rBV5	215345	447180	2.53%	0.207%
51	9.269	1321	1324	1334	rVB4	263199	445940	2.52%	0.207%
52	9.370	1339	1343	1349	rVB	442368	635271	3.59%	0.294%
53	9.429	1349	1354	1360	rVB4	197806	356343	2.01%	0.165%
54	9.494	1362	1366	1369	rBV	871621	1009882	5.71%	0.468%
55	9.531	1369	1373	1375	rVV	997928	924284	5.22%	0.428%
56	9.552	1375	1377	1380	rVV	959235	919756	5.20%	0.426%
57	9.579	1380	1382	1387	rVB2	615885	700954	3.96%	0.325%
58	9.622	1387	1390	1395	rVB	549168	584988	3.31%	0.271%
59	9.691	1395	1403	1411	rBV3	590103	1196538	6.76%	0.554%
60	9.798	1412	1423	1428	rBV3	6428962	12915032	73.01%	5.981%
61	9.841	1428	1431	1439	rVB	5887696	6384615	36.09%	2.957%
62	9.927	1442	1447	1451	rBV	1744285	1832813	10.36%	0.849%
63	10.050	1466	1470	1474	rVV2	620753	943362	5.33%	0.437%
64	10.093	1474	1478	1487	rVB2	627391	923533	5.22%	0.428%
65	10.232	1500	1504	1507	rBV	570931	613789	3.47%	0.284%
66	10.280	1507	1513	1517	rBV	960235	1140313	6.45%	0.528%
67	10.317	1517	1520	1526	rVB2	410733	431111	2.44%	0.200%
68	10.392	1527	1534	1537	rBV	705792	777843	4.40%	0.360%
69	10.424	1537	1540	1542	rBV3	542537	562174	3.18%	0.260%
70	10.451	1542	1545	1547	rBV	449809	414273	2.34%	0.192%
71	10.526	1556	1559	1566	rVB2	382337	481655	2.72%	0.223%
72	10.649	1577	1582	1591	rBV5	302664	845126	4.78%	0.391%
73	10.857	1613	1621	1626	rBV3	469238	752343	4.25%	0.348%
74	10.980	1639	1644	1647	rVB2	543425	580767	3.28%	0.269%
75	11.034	1647	1654	1663	rBV	6050448	12701477	71.80%	5.882%
76	11.130	1669	1672	1676	rVB	1624214	1579709	8.93%	0.732%
77	11.184	1677	1682	1685	rBV2	421148	520504	2.94%	0.241%
78	11.221	1685	1689	1697	rBV4	737197	1588292	8.98%	0.736%
79	11.328	1703	1709	1715	rBV	3586108	4456439	25.19%	2.064%
80	11.392	1715	1721	1727	rVB	5813551	7412428	41.90%	3.433%
81	11.451	1727	1732	1735	rBV	3170529	3922642	22.17%	1.817%
82	11.478	1735	1737	1746	rVB	2018950	2229685	12.60%	1.033%
83	11.612	1757	1762	1766	rBV4	369337	688369	3.89%	0.319%
84	11.751	1780	1788	1793	rBV4	510270	984876	5.57%	0.456%
85	11.793	1793	1796	1804	rVB2	182871	329845	1.86%	0.153%

LSC Area Percent Report

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	11.975	1823	1830	1835	rVB2	899086	1379689	7.80%	0.639%
87	12.039	1836	1842	1848	rBV7	210506	445643	2.52%	0.206%
88	12.307	1889	1892	1900	rVB6	216135	355173	2.01%	0.164%
89	12.403	1907	1910	1919	rVB3	172584	395187	2.23%	0.183%
90	12.644	1948	1955	1962	rBV4	561026	1584063	8.95%	0.734%
91	12.697	1962	1965	1973	rVB7	447052	681549	3.85%	0.316%
92	12.820	1975	1988	1995	rBV2	3246484	6189730	34.99%	2.866%
93	12.879	1996	1999	2006	rVB	283465	395710	2.24%	0.183%
94	12.965	2008	2015	2020	rBV2	851378	1579181	8.93%	0.731%
95	13.018	2020	2025	2029	rBV	479717	680784	3.85%	0.315%
96	13.211	2052	2061	2077	rBV	2648362	5493620	31.05%	2.544%
97	13.345	2078	2086	2093	rVV10	445809	1357830	7.68%	0.629%
98	13.414	2093	2099	2114	rVB	1013532	2284194	12.91%	1.058%
99	13.789	2166	2169	2178	rVB3	159910	301858	1.71%	0.140%
100	14.216	2243	2249	2265	rVB8	220651	601902	3.40%	0.279%

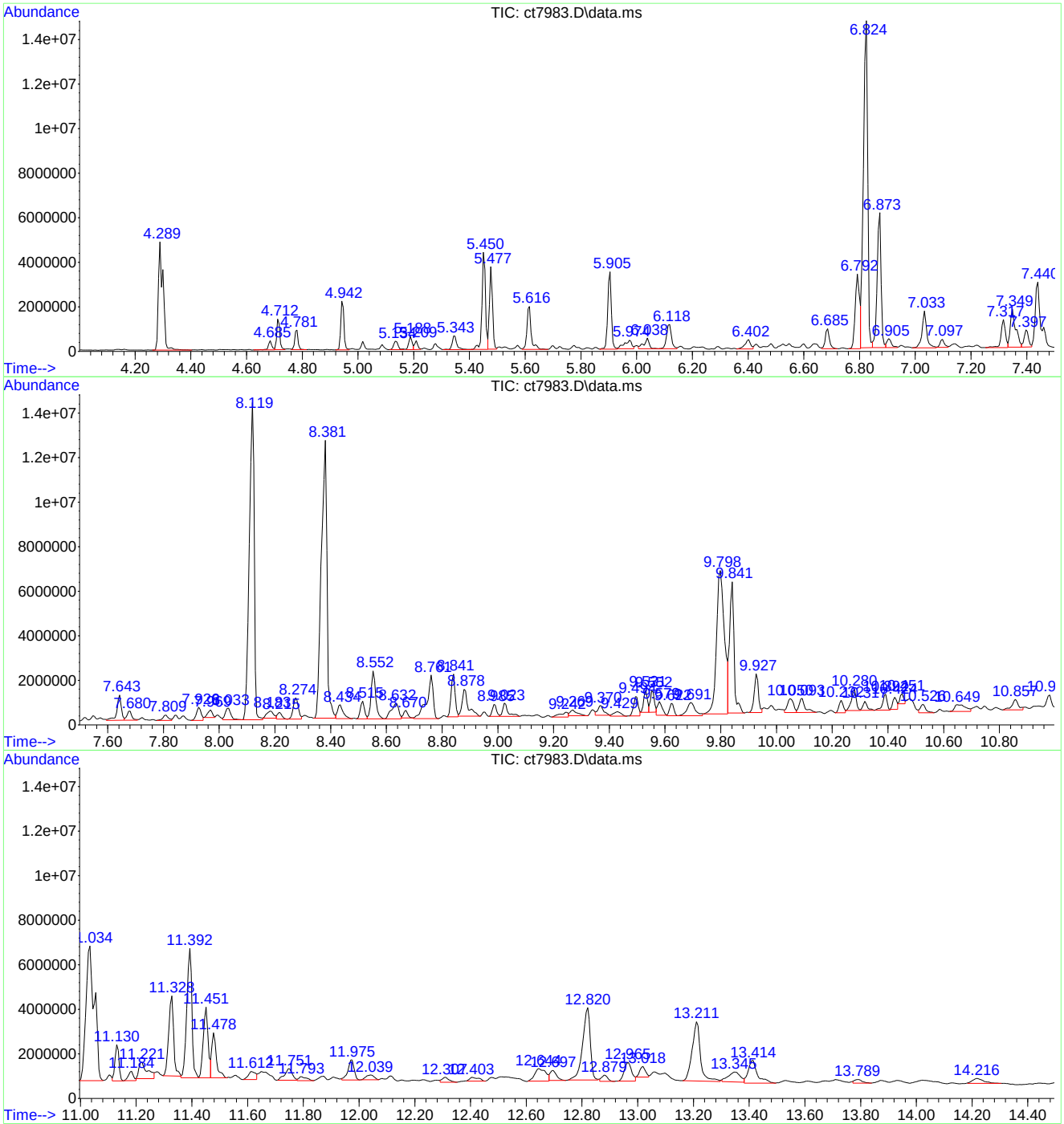
Sum of corrected areas: 215936195

LSC Report - Integrated Chromatogram

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

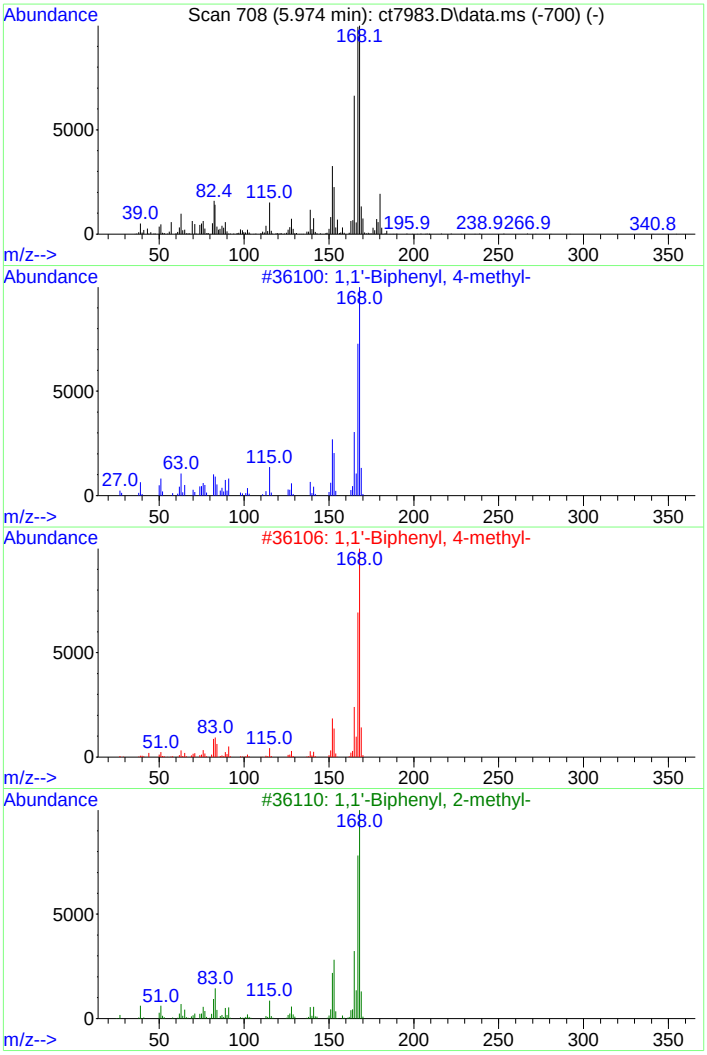
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

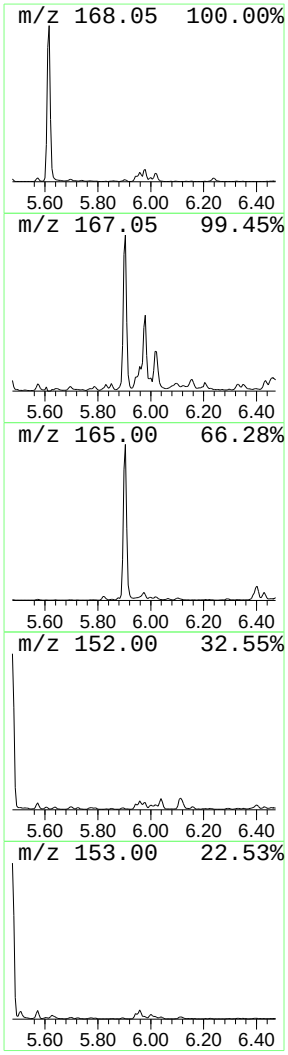
****

Peak Number 1 Biphenyl, methyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.974	7.28 ppm	711146	Acenaphthene-d10	5.450

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	89
2	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	89
3	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	86
4	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	78
5	Diphenylmethane	168	C13H12	000101-81-5	70





Library Search Compound Report

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

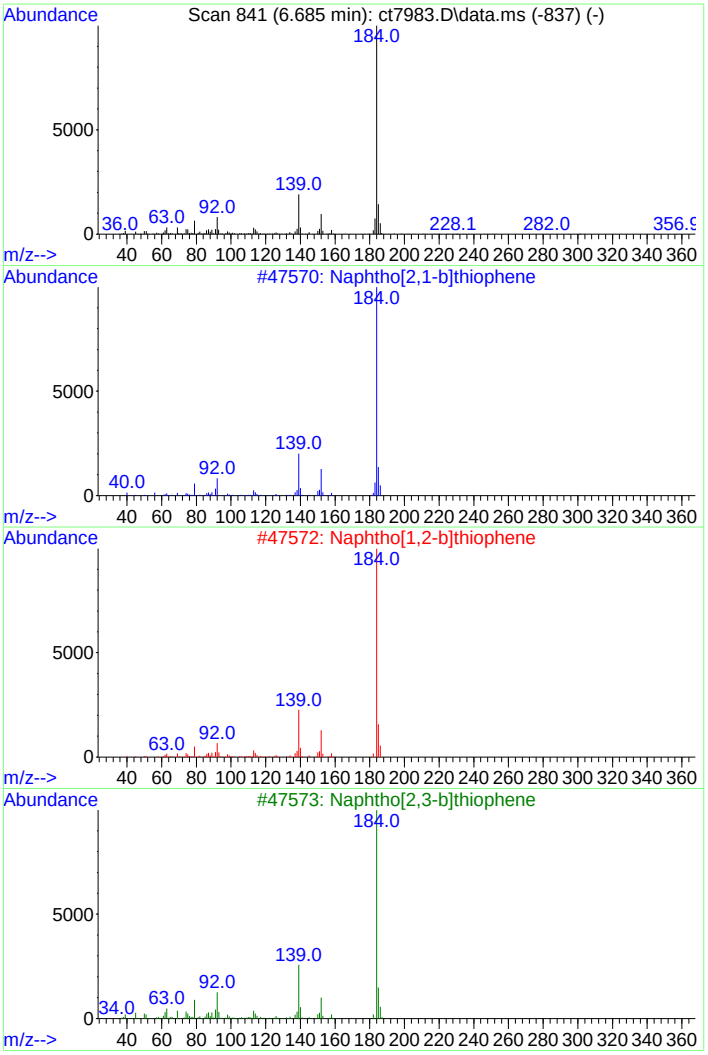
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

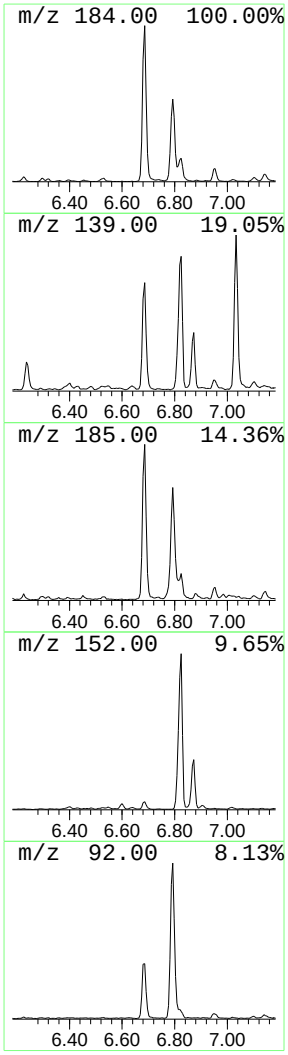
****

Peak Number 2 Naphtho[]thiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.685	9.53 ppm	909077	Phenanthrene-d10	6.792

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	97
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	97
4	Dibenzothiophene	184	C12H8S	000132-65-0	96
5	Dibenzothiophene	184	C12H8S	000132-65-0	96





Library Search Compound Report

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

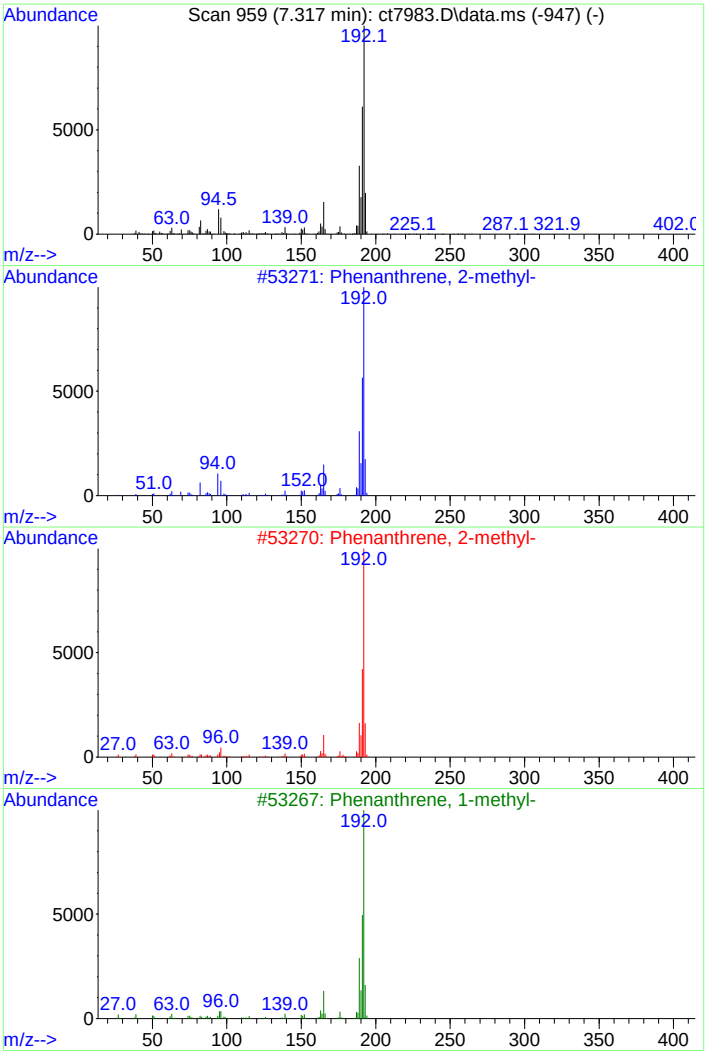
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

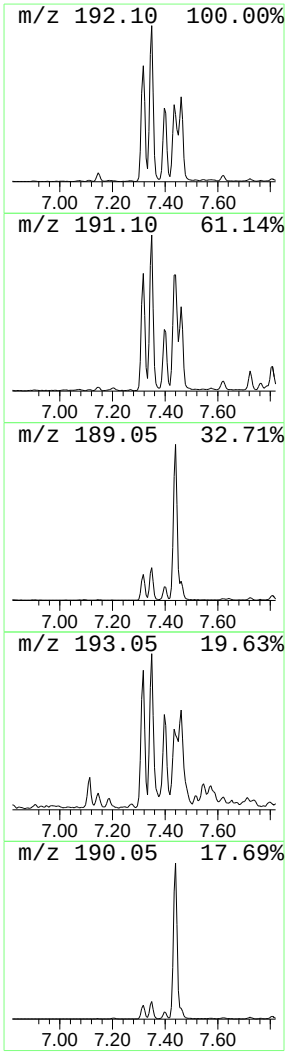
****

Peak Number 3 Phenanthrene, methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.317	14.82 ppm	1414290	Phenanthrene-d10b	6.792

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96





Library Search Compound Report

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

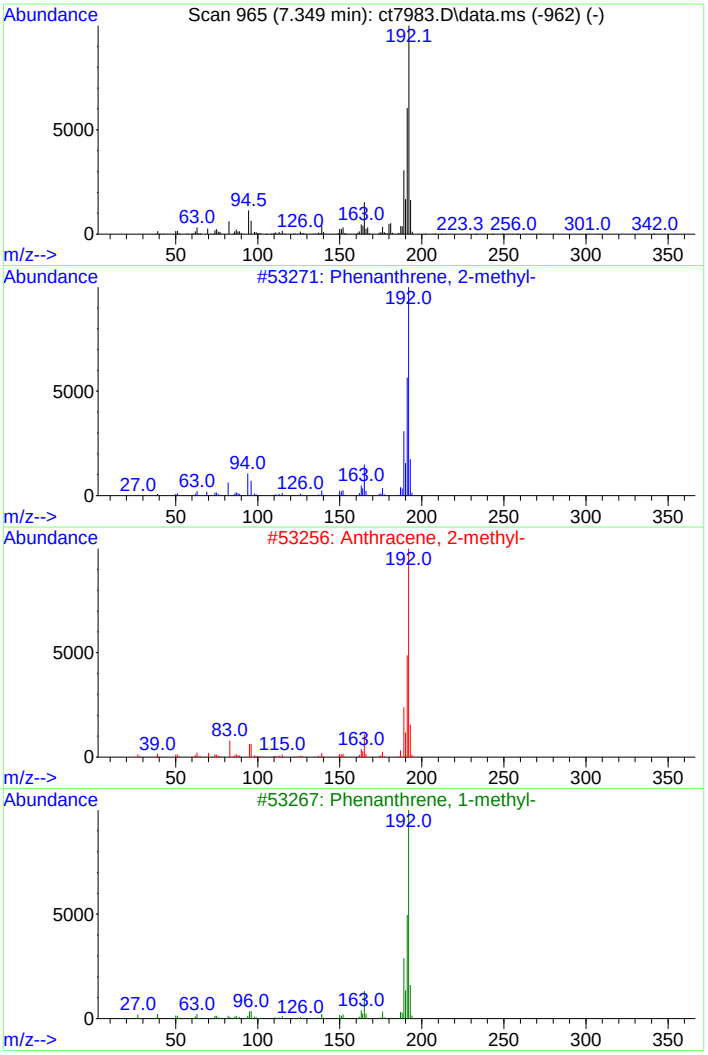
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

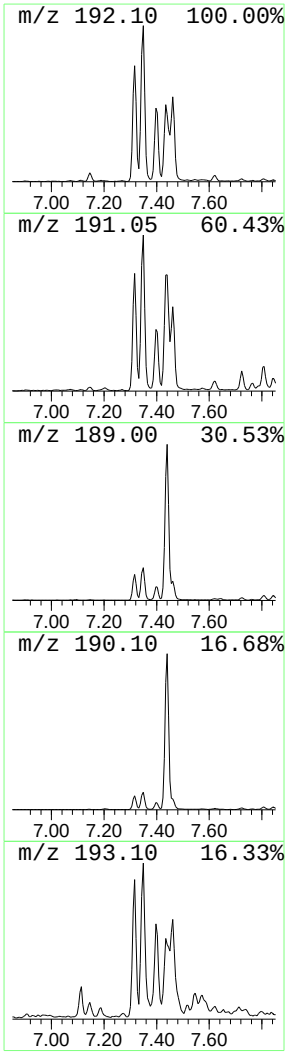
****

Peak Number 4 Phenanthrene, methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.349	23.92 ppm	2282880	Phenanthrene-d10b	6.792

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	95





Library Search Compound Report

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Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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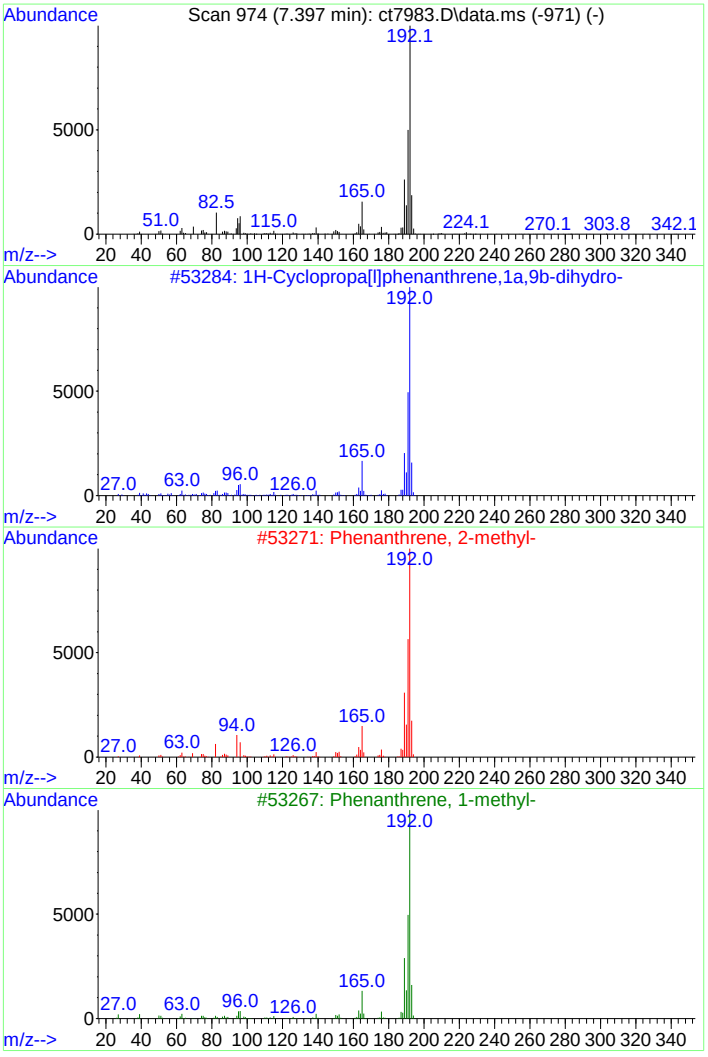
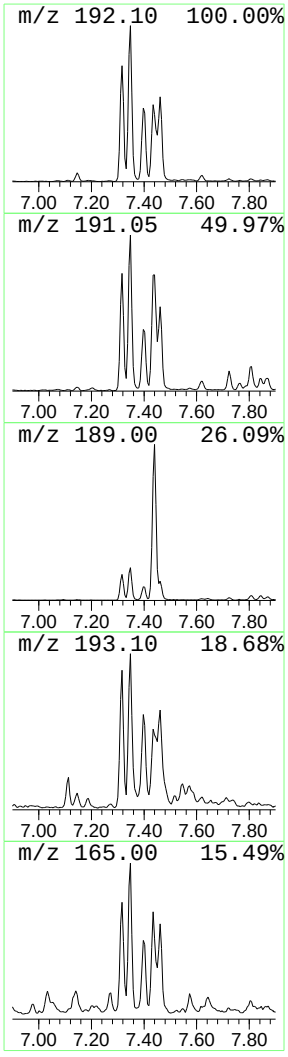
Peak Number 5 Phenanthrene, methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.397	8.81 ppm	841087	Phenanthrene-d10b	6.792

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95





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Acq On : 03 Jul 2024 03:43 pm
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Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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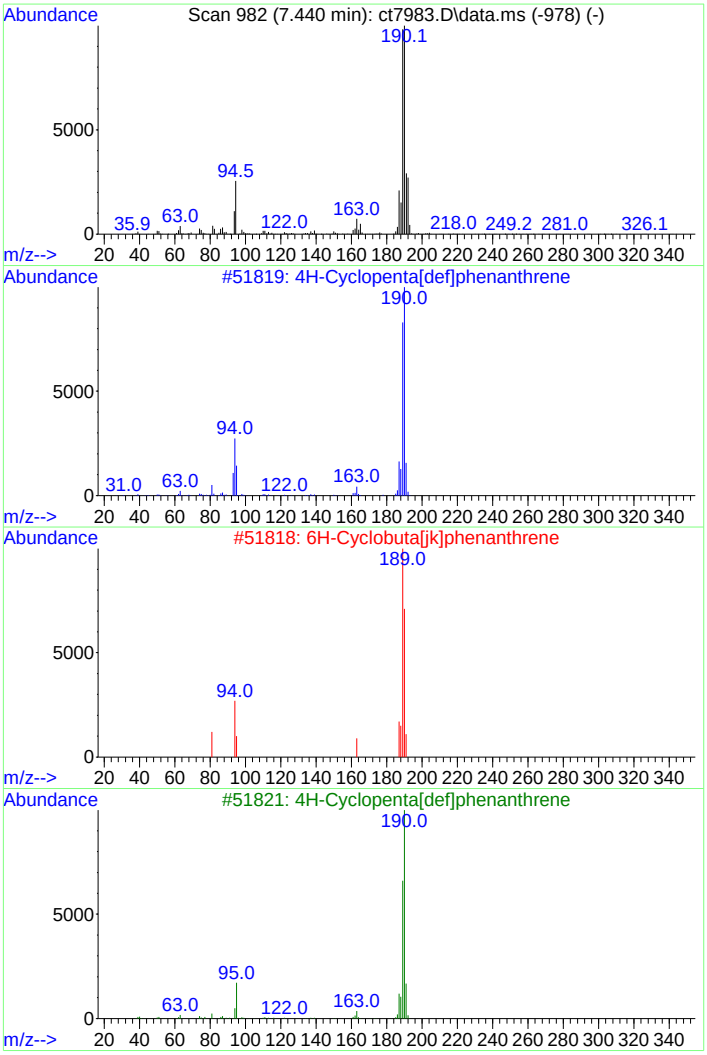
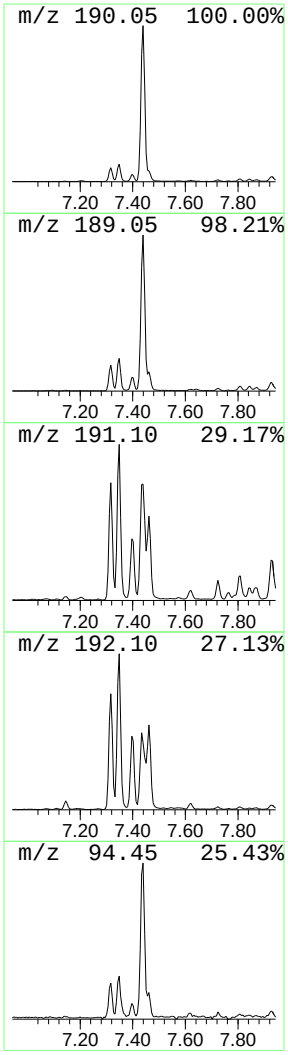
Peak Number 6 Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.440	42.36 ppm	4041700	Phenanthrene-d10b	6.792

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	87
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50





Library Search Compound Report

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Sample : jd91339-3
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ALS Vial : 17 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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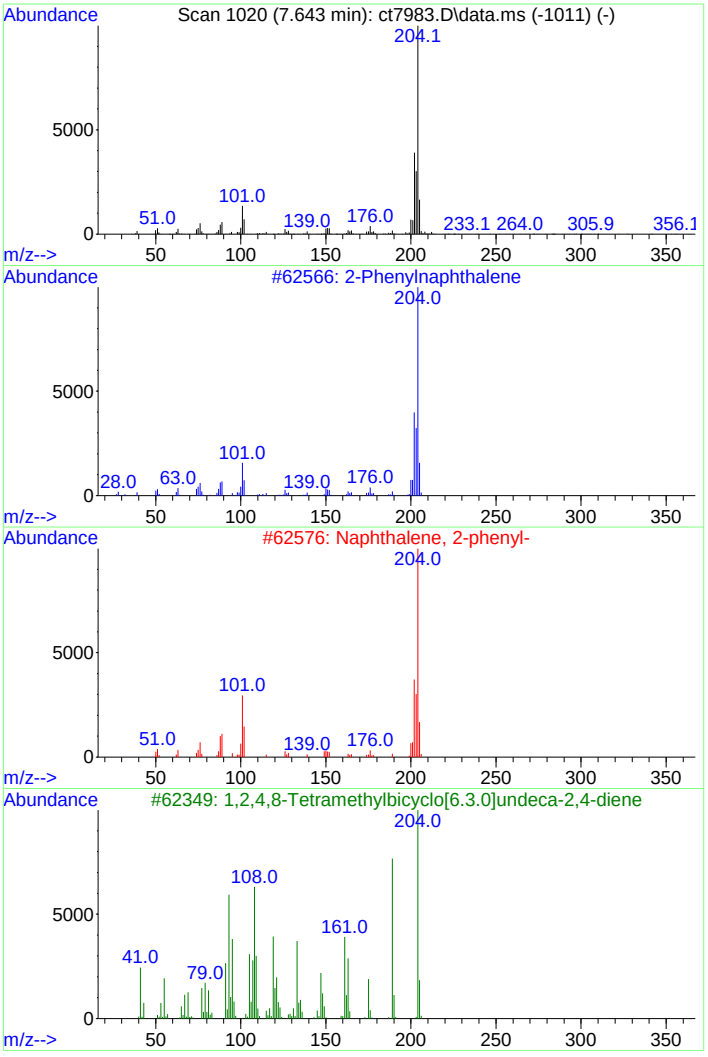
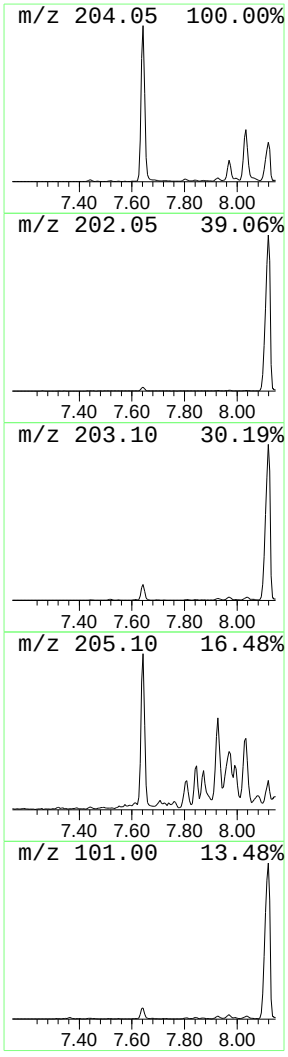
Peak Number 7 Phenylnaphthalene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.643	12.99 ppm	1239940	Phenanthrene-d10b	6.792

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	97
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	94
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	90
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	90
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76





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Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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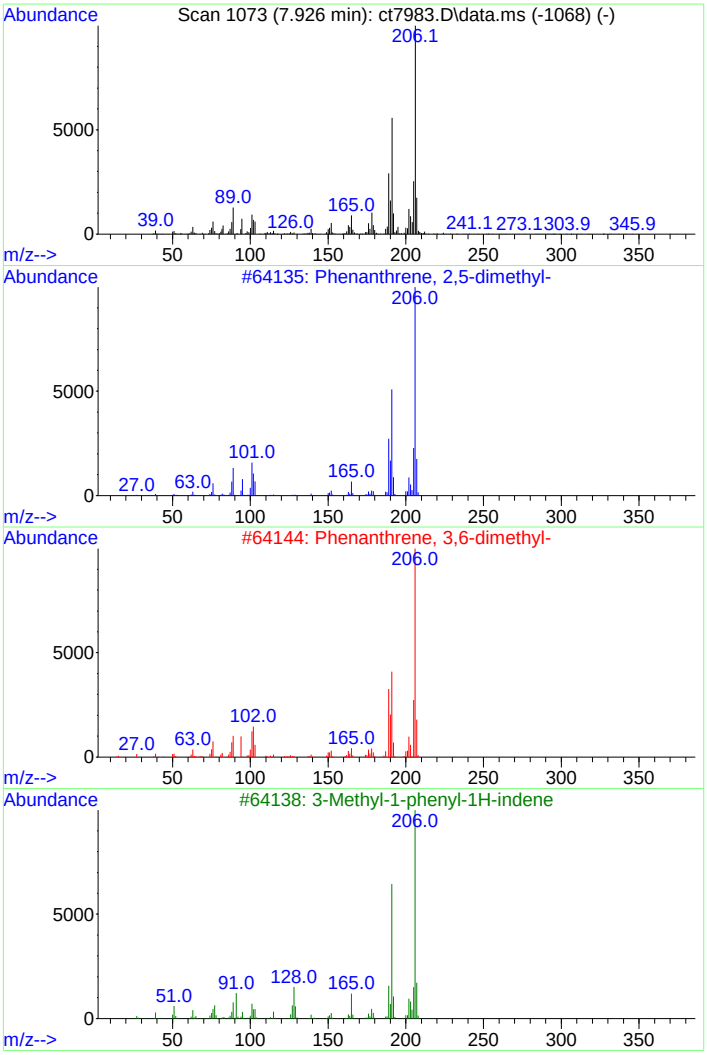
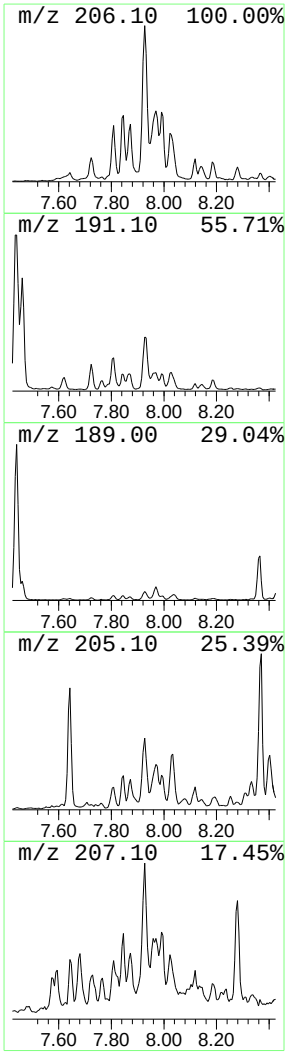
Peak Number 8 Phenanthrene, dimethyl Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.926	7.36 ppm	702173	Phenanthrene-d10b	6.792

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
3	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	93
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
5	1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	93





Library Search Compound Report

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Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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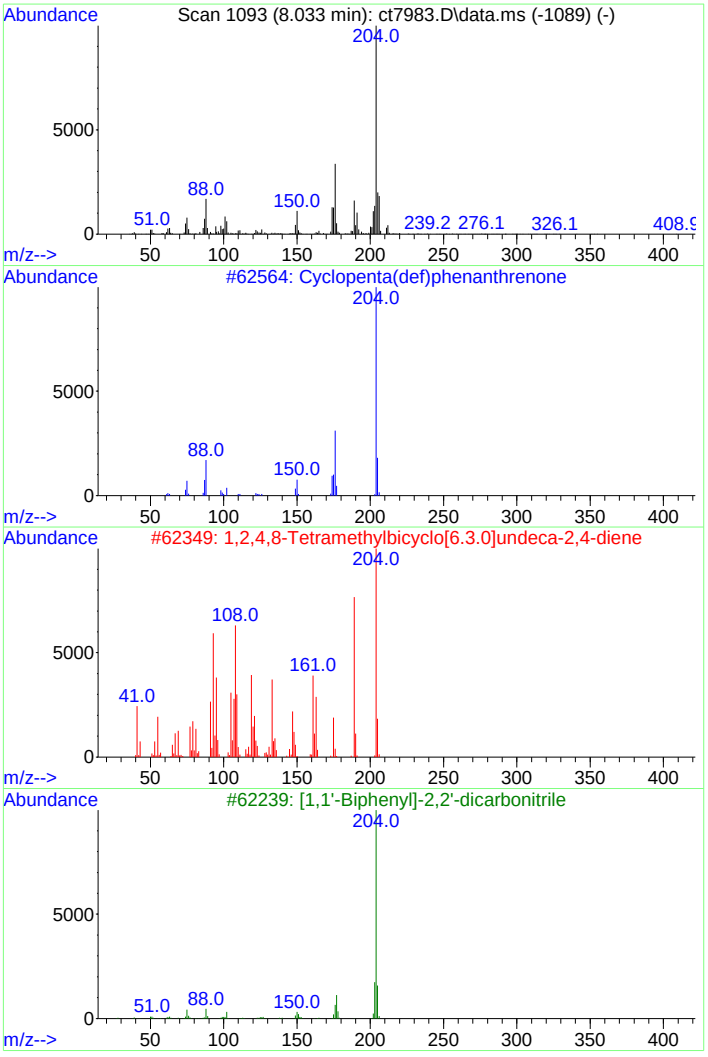
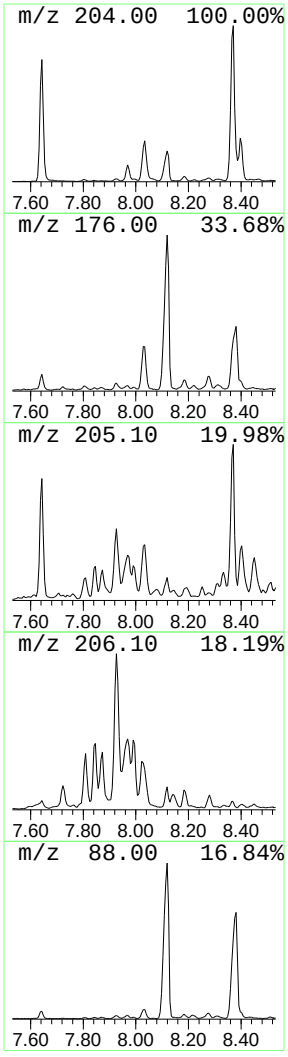
Peak Number 9 Cyclopenta(def)phenanthrenone Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.033	7.62 ppm	726961	Phenanthrene-d10b	6.792

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	64
3	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	47
4	Tetrathiafulvalene	204	C6H4S4	031366-25-3	46
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	43





Library Search Compound Report

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Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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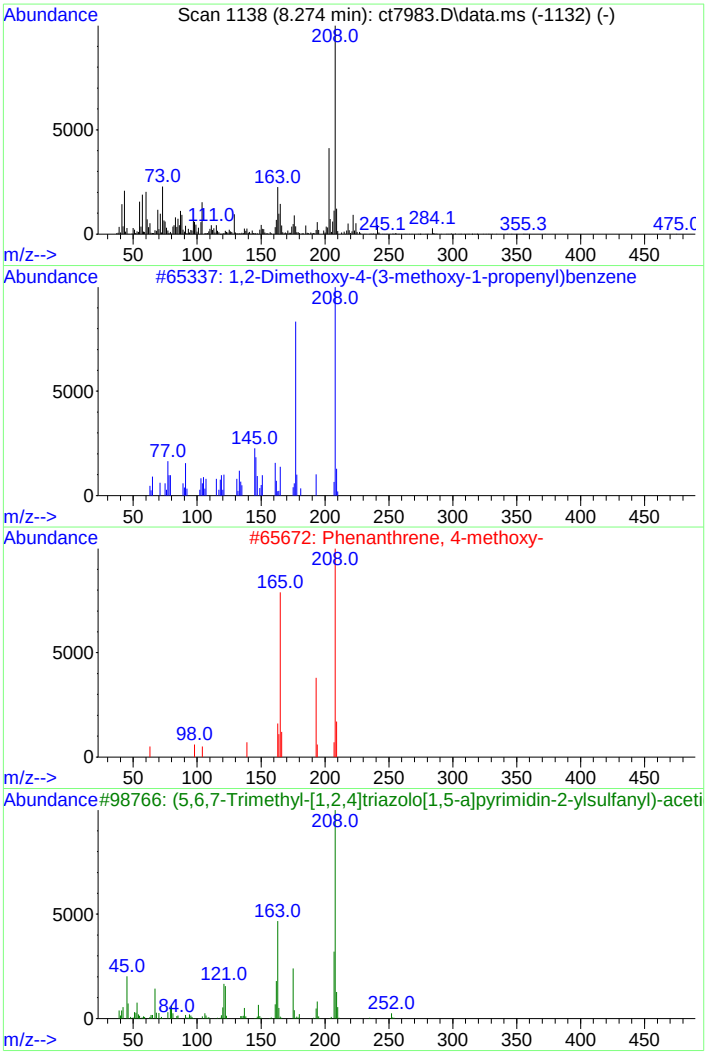
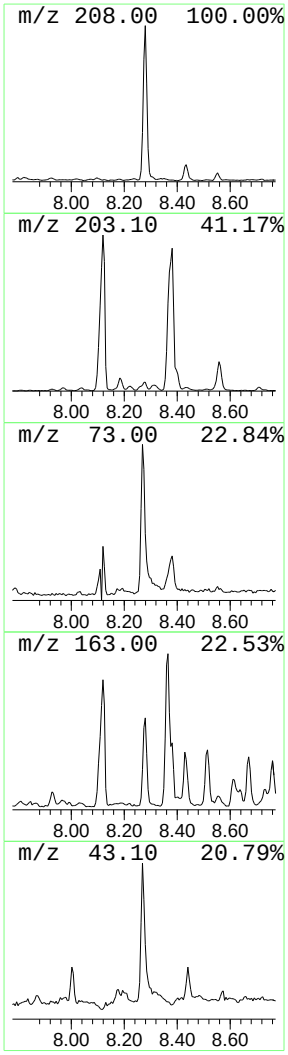
Peak Number 10 unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.274	12.76 ppm	1217850	Phenanthrene-d10b	6.792

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Dimethoxy-4-(3-methoxy-1-pro...	208	C12H16O3	1000313-35-0	38
2	Phenanthrene, 4-methoxy-	208	C15H12O	015638-06-9	35
3	(5,6,7-Trimethyl-[1,2,4]triazolo...	252	C10H12N4O2S	1000301-18-7	32
4	Phenanthrene, 9-methoxy-	208	C15H12O	005085-74-5	30
5	5-Methyl-3-phenyl-1H-indazole	208	C14H12N2	057614-16-1	30





Library Search Compound Report

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Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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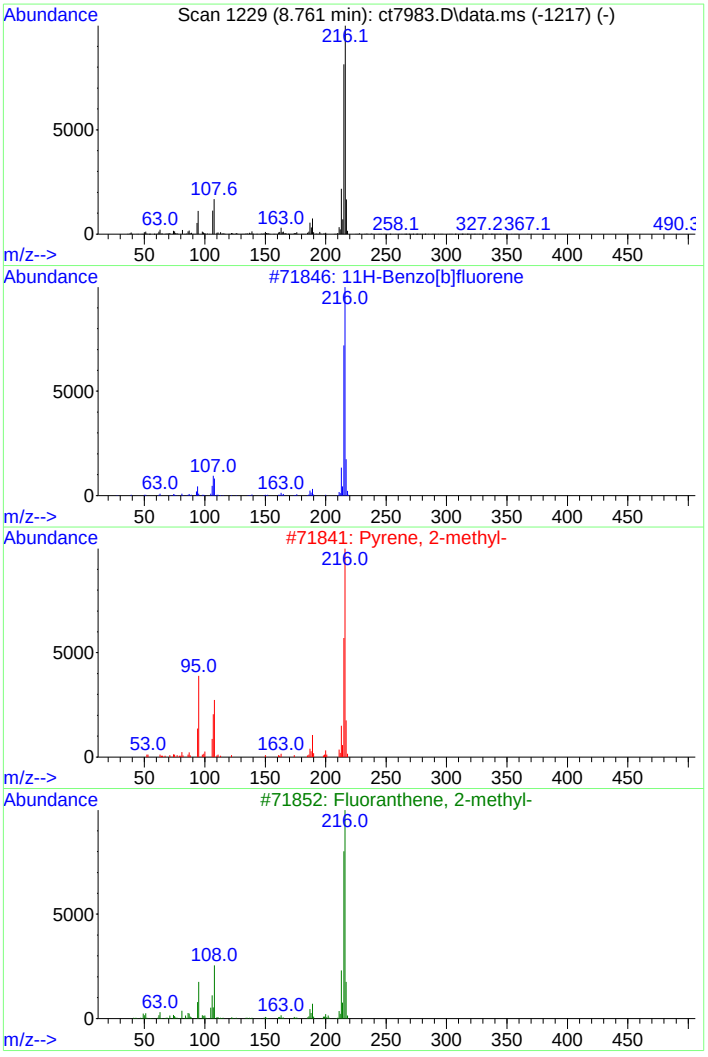
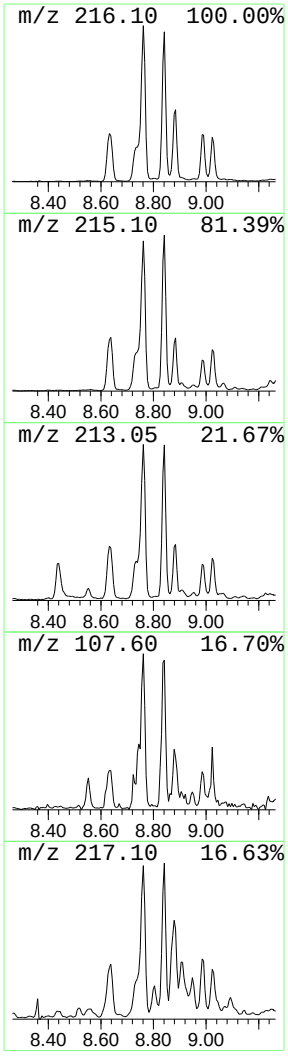
Peak Number 11 11H-Benzo[]fluorene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.761	9.60 ppm	3098110	Chrysene-d12	9.809

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	97
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	95
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91





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Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
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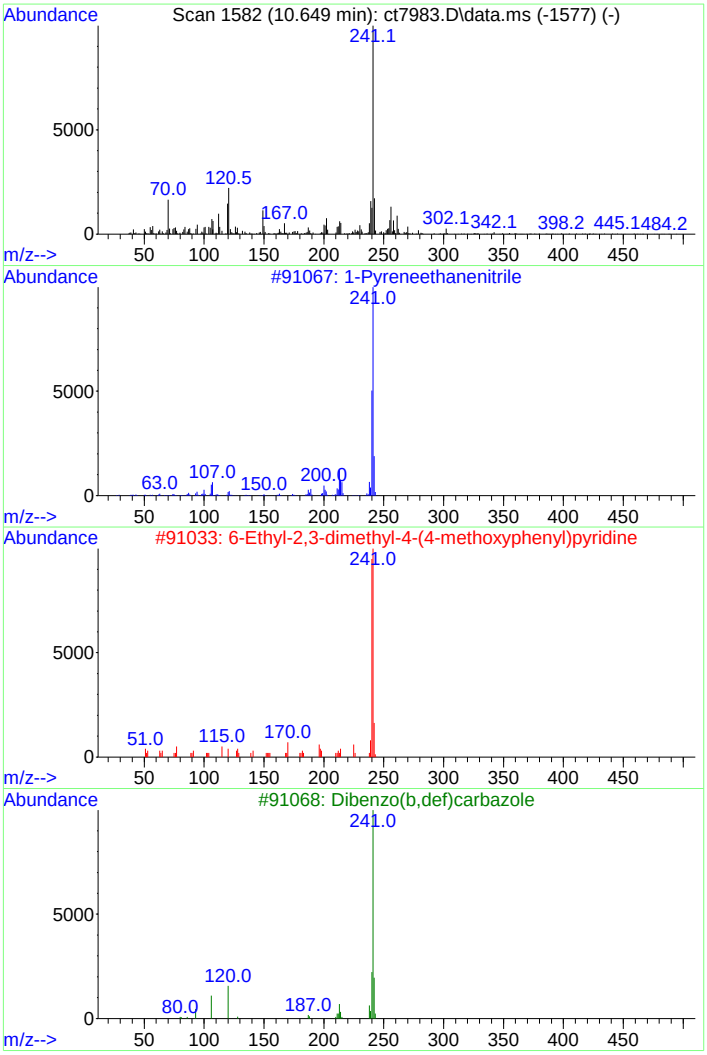
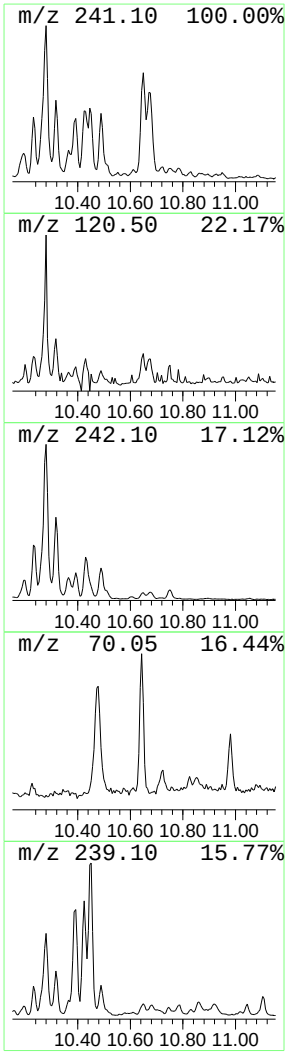
Peak Number 12 unknown Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.649	8.62 ppm	845126	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pyreneethanenitrile	241	C18H11N	064764-29-0	53
2	6-Ethyl-2,3-dimethyl-4-(4-methox...	241	C16H19NO	073669-45-1	52
3	Dibenzo(b,def)carbazole	241	C18H11N	104313-09-9	52
4	2,6-Diethyl-4-(4-methoxyphenyl)p...	241	C16H19NO	073669-46-2	50
5	Benzaldehyde, (4-nitrophenyl)hyd...	241	C13H11N3O2	003078-09-9	49





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Sample : jd91339-3
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ALS Vial : 17 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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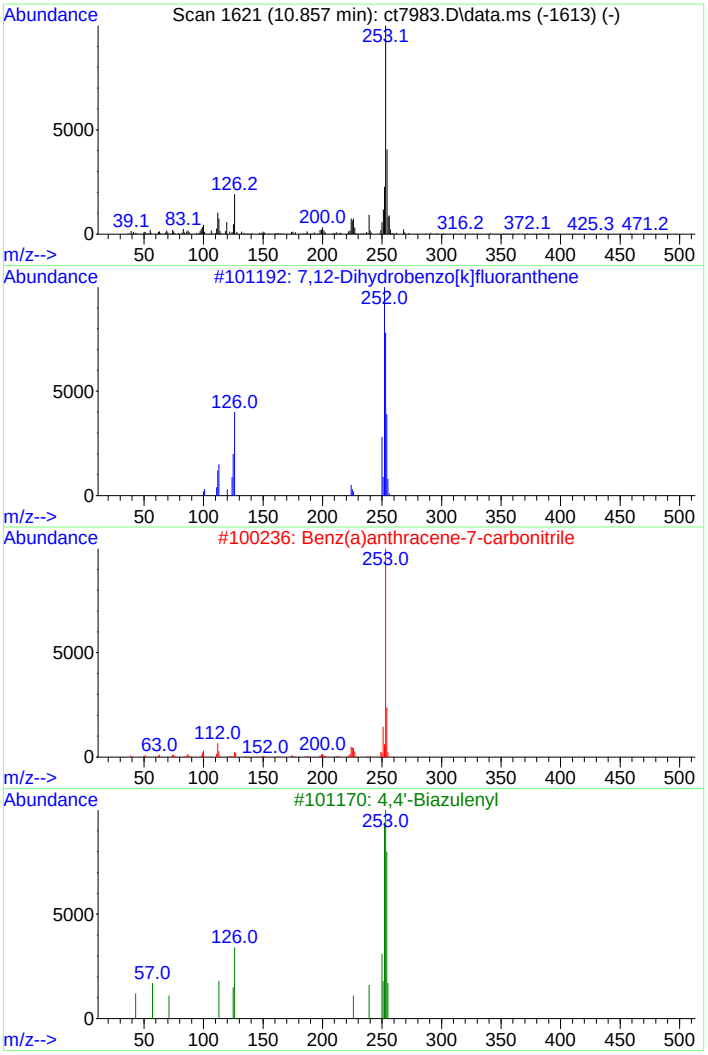
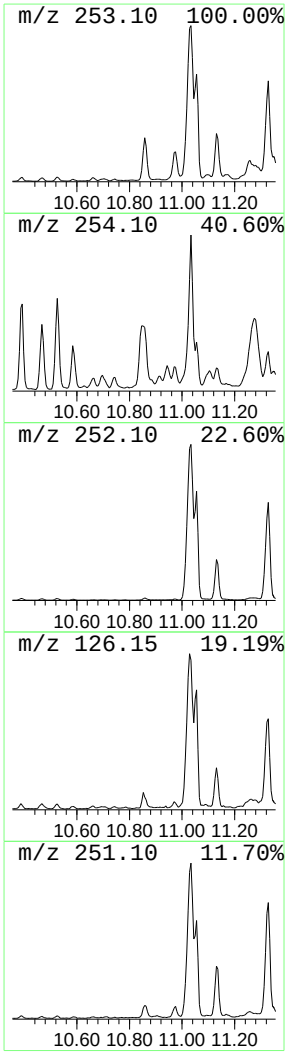
Peak Number 13 unknown Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.857	7.67 ppm	752343	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	72
2	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	55
3	4,4'-Biazulenyl	254	C20H14	094053-54-0	43
4	4,6'-Biazulenyl	254	C20H14	094154-49-1	43
5	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	38





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Sample : jd91339-3
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ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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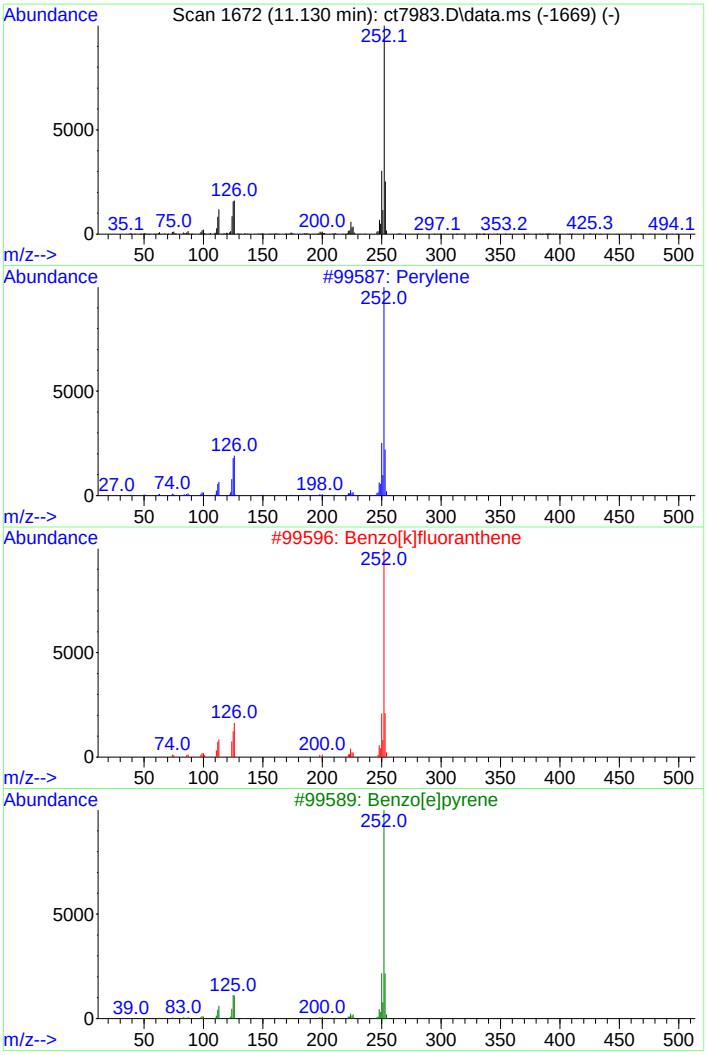
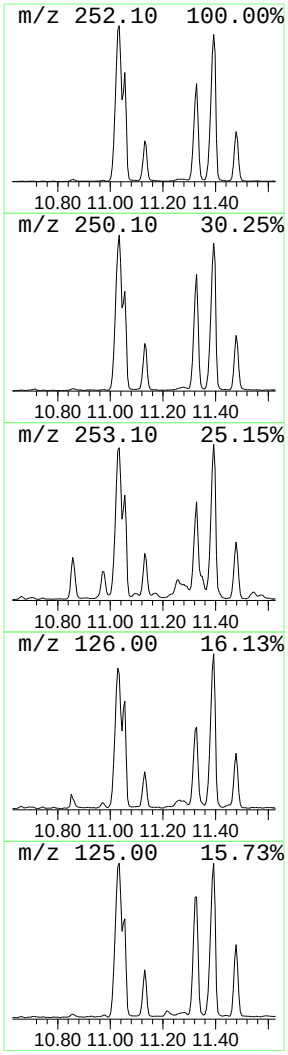
Peak Number 14 unknown PAH Substance Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.130	16.11 ppm	1579710	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
3	Benzo[e]pyrene	252	C20H12	000192-97-2	96
4	Perylene	252	C20H12	000198-55-0	96
5	Benzo[e]pyrene	252	C20H12	000192-97-2	95





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Data File : ct7983.D
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Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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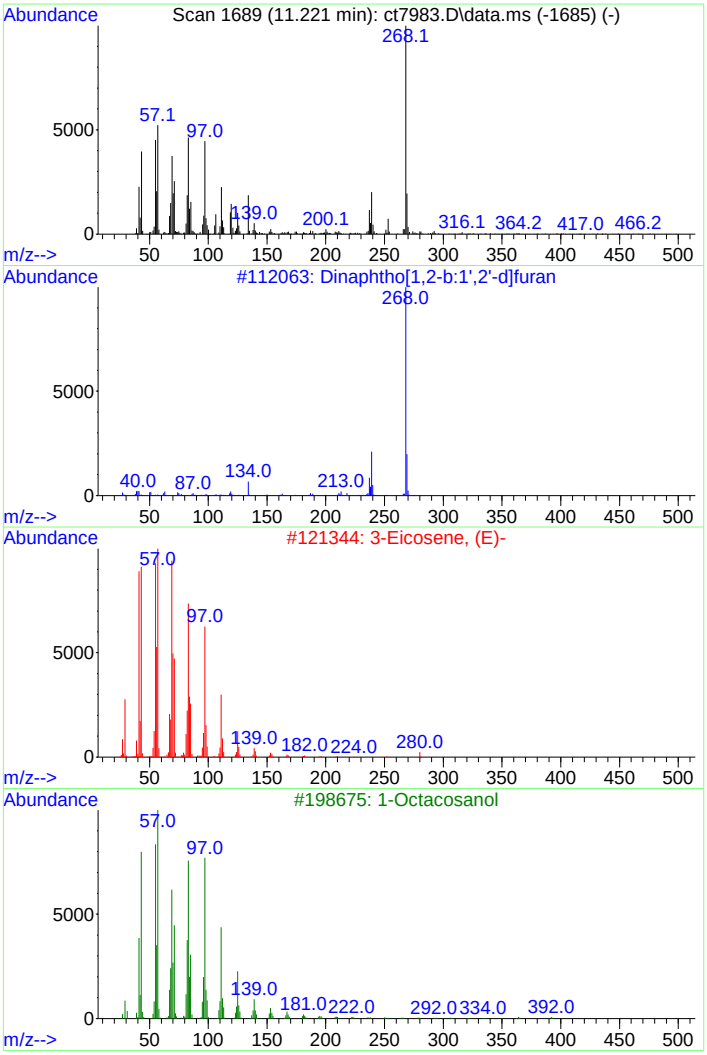
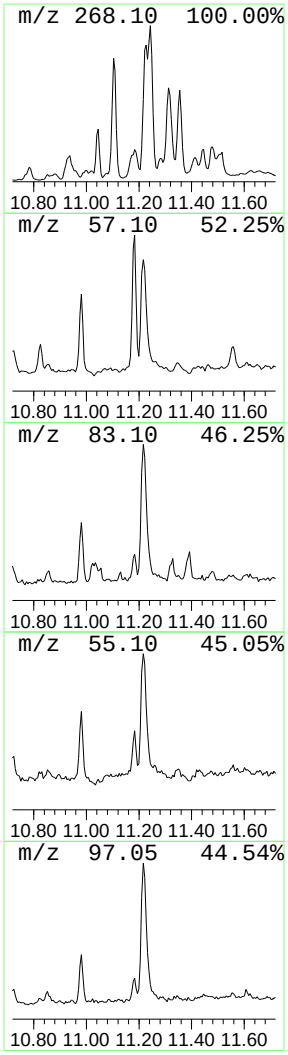
Peak Number 15 unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.221	16.20 ppm	1588290	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	90
2	3-Eicosene, (E)-	280	C20H40	074685-33-9	90
3	1-Octacosanol	410	C28H58O	1000351-79-2	70
4	.beta.-Alanine, n-heptafluorobut...	509	C23H38F7NO3	1000320-98-7	68
5	n-Tetracosanol-1	354	C24H50O	000506-51-4	51





Library Search Compound Report

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

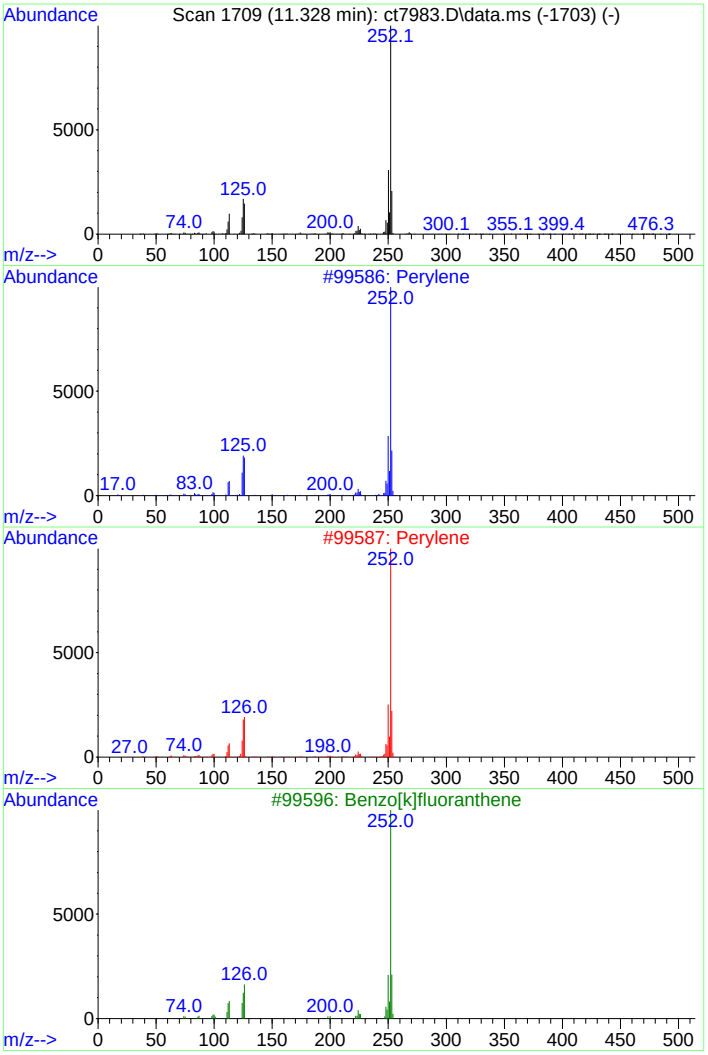
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

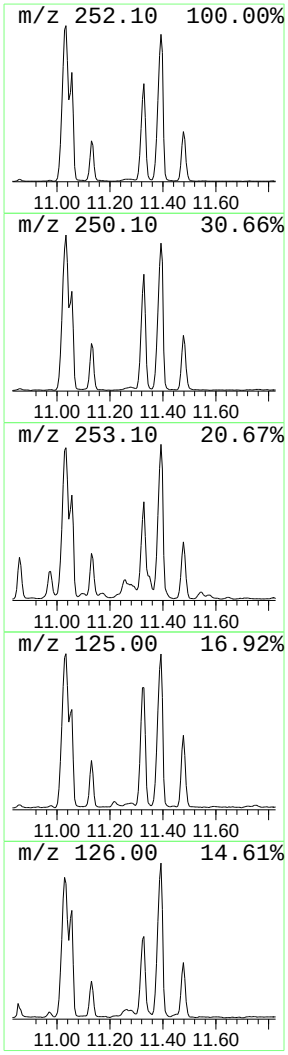
****

Peak Number 16 unknown PAH Substance Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.328	45.44 ppm	4456440	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	94
2	Perylene	252	C20H12	000198-55-0	94
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
4	Benzo[e]pyrene	252	C20H12	000192-97-2	94
5	Benzo[e]pyrene	252	C20H12	000192-97-2	94





Library Search Compound Report

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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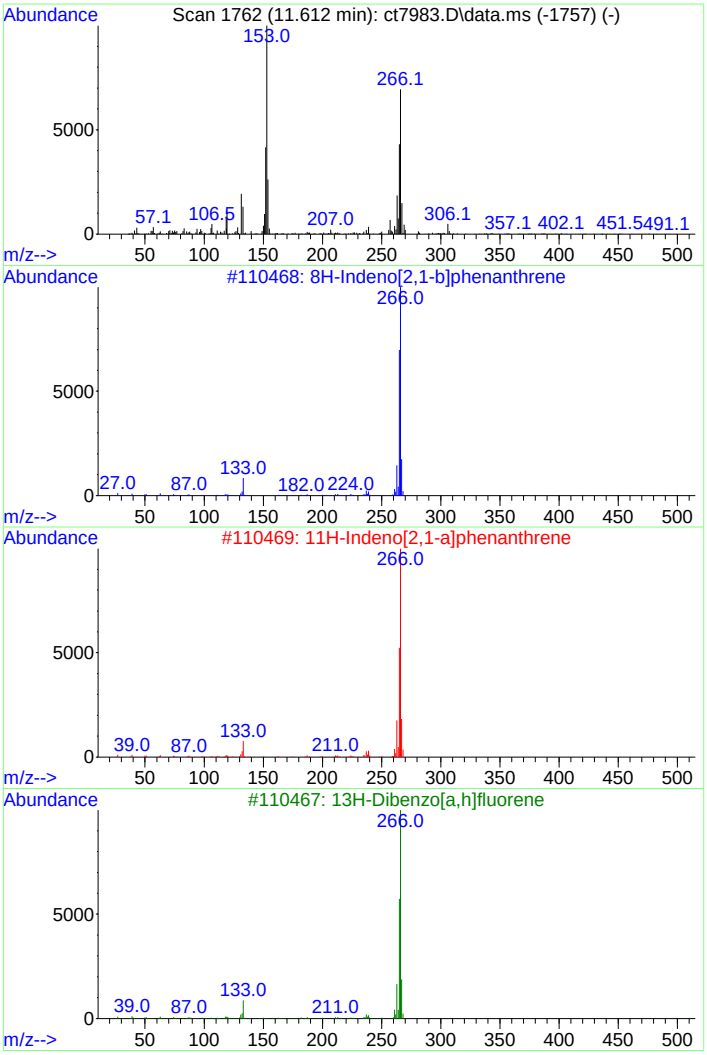
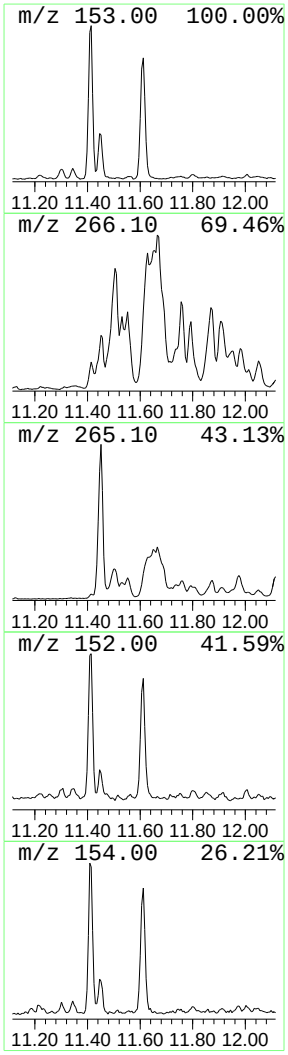
Peak Number 17 unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.612	7.02 ppm	688369	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	38
2	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	30
3	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	30
4	4H-1-Benzopyran-4-one, 3-hydroxy...	266	C17H14O3	078396-37-9	22
5	Thiazole, 4-phenyl-2-(4-tolylami...	266	C16H14N2S	016098-04-7	22





Library Search Compound Report

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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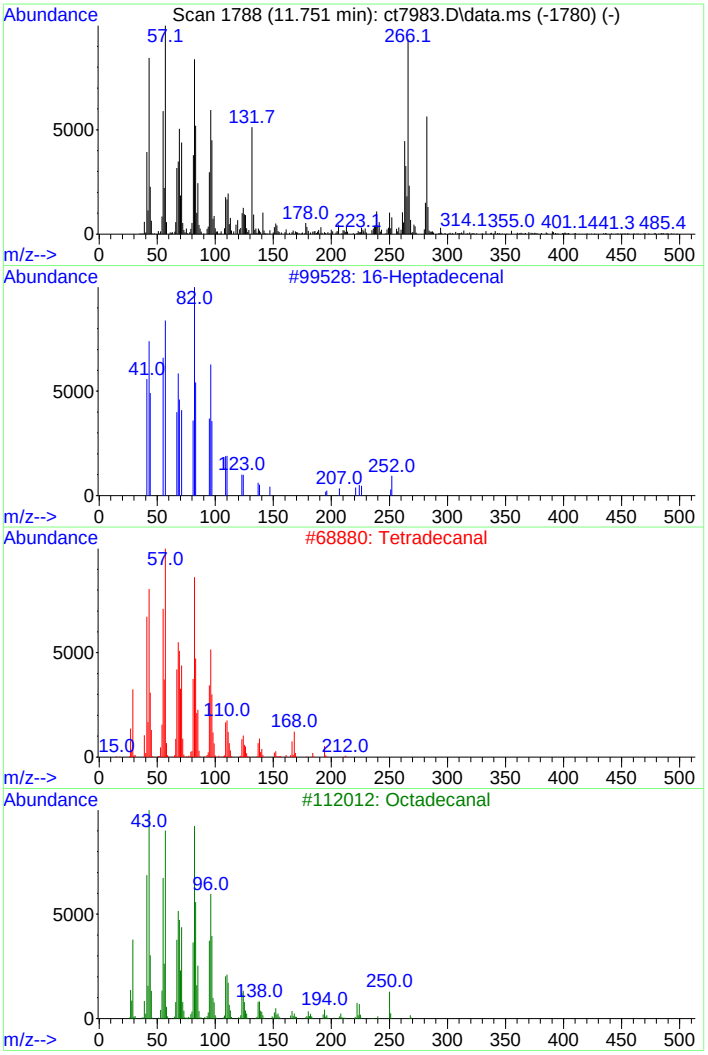
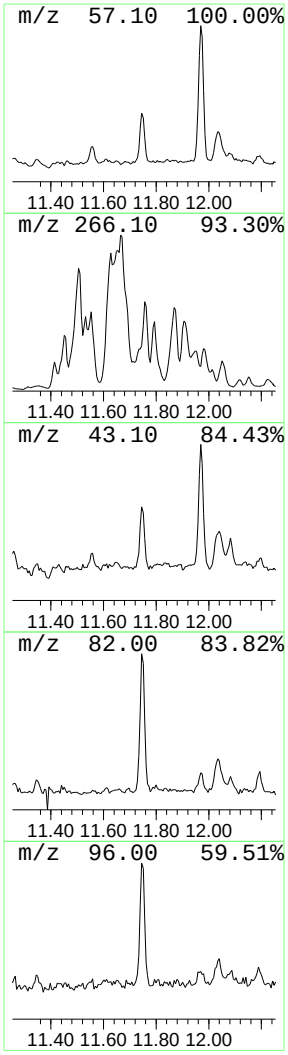
Peak Number 18 unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.751	10.04 ppm	984876	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	16-Heptadecenal	252	C17H32O	1000144-57-9	49
2	Tetradecanal	212	C14H28O	000124-25-4	47
3	Octadecanal	268	C18H36O	000638-66-4	38
4	14-Heptadecenal	252	C17H32O	1000144-58-0	38
5	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	38





Library Search Compound Report

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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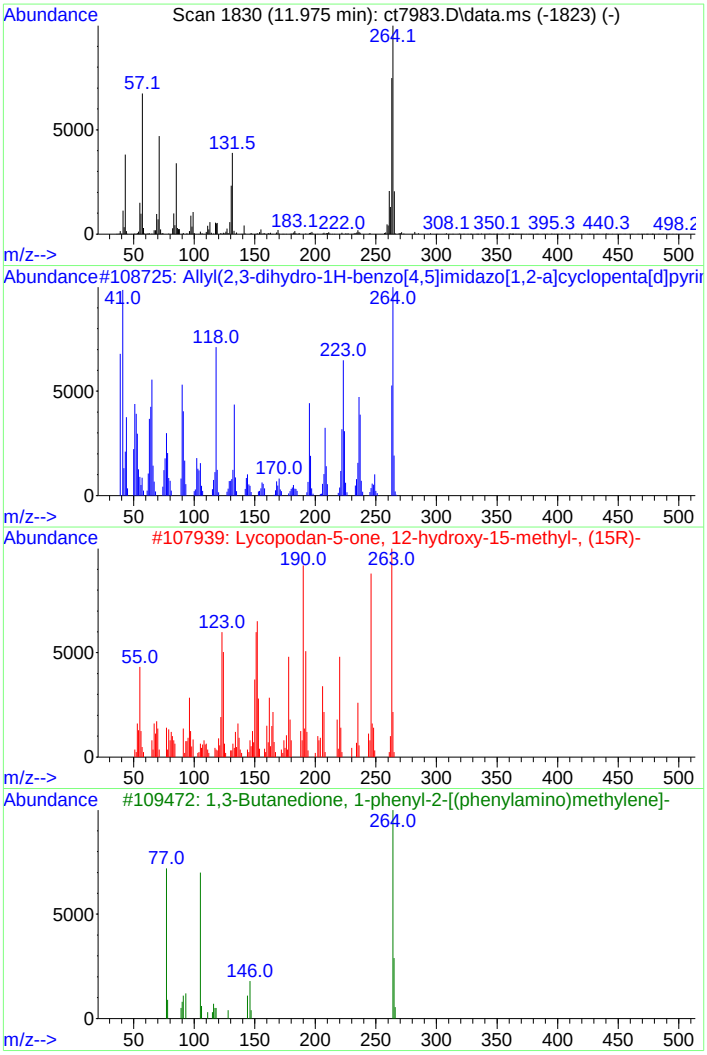
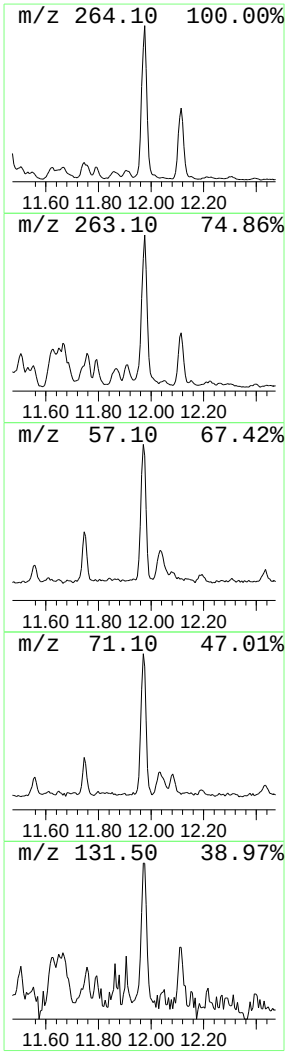
Peak Number 19 unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.975	14.07 ppm	1379690	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Allyl(2,3-dihydro-1H-benzo[4,5]i...	264	C16H16N4	1000322-09-2	32
2	Lycopodan-5-one, 12-hydroxy-15-m...	263	C16H25NO2	006900-92-1	14
3	1,3-Butanedione, 1-phenyl-2-[(ph...	265	C17H15NO2	101441-99-0	10
4	1,3-Dichlorophenazine 5-oxide	264	C12H6Cl2N2O	053601-82-4	9
5	p-Terphenyl, 4-chloro-	264	C18H13Cl	001762-83-0	9





Library Search Compound Report

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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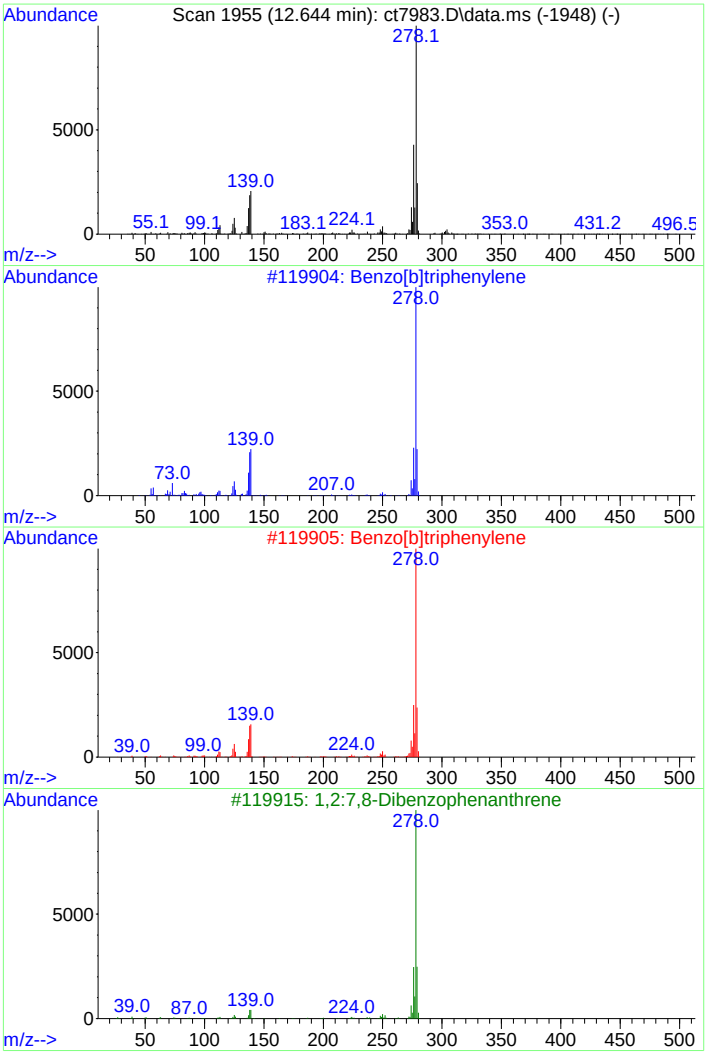
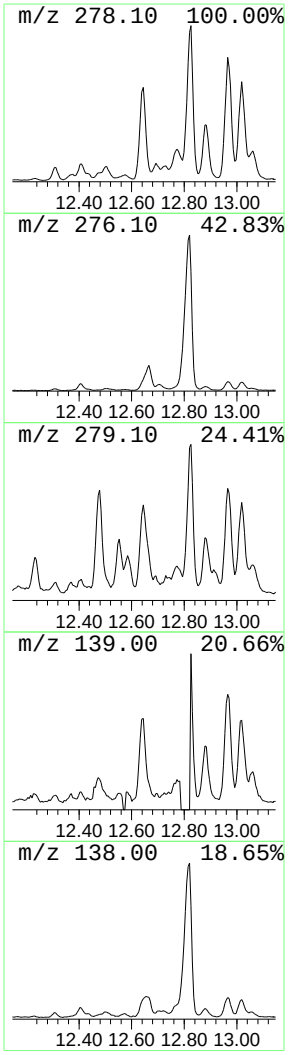
Peak Number 20 unknown PAH Substance Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.644	16.15 ppm	1584060	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	95
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	89
4	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	89
5	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	89





Library Search Compound Report

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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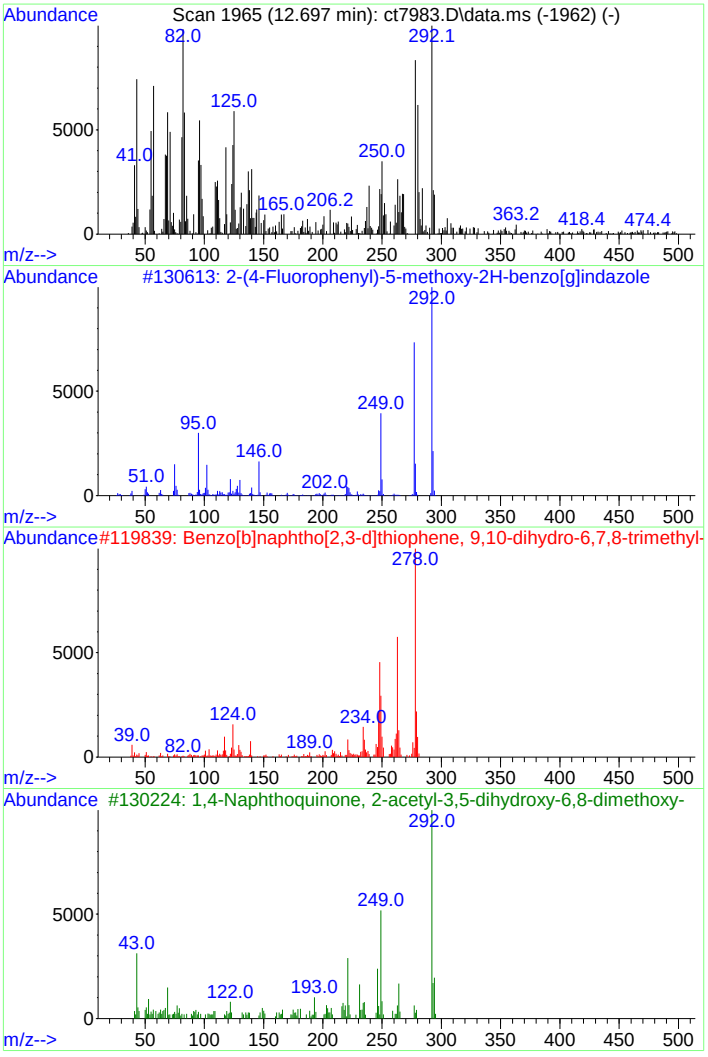
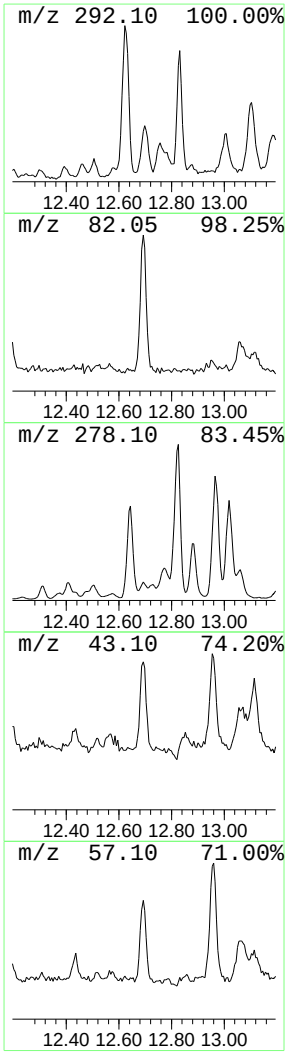
Peak Number 21 unknown Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.697	6.95 ppm	681549	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-(4-Fluorophenyl)-5-methoxy-2H-...	292	C18H13FN2O	1000194-51-1	35
2	Benzo[b]naphtho[2,3-d]thiophene,...	278	C19H18S	024964-01-0	30
3	1,4-Naphthoquinone, 2-acetyl-3,5...	292	C14H12O7	014090-52-9	30
4	1,3-Diamino-7,8-dichlorobenzo[f]...	278	C12H8Cl2N4	037521-57-6	25
5	4-Bromophenoxathiin	278	C12H7BrOS	105906-37-4	25





Library Search Compound Report

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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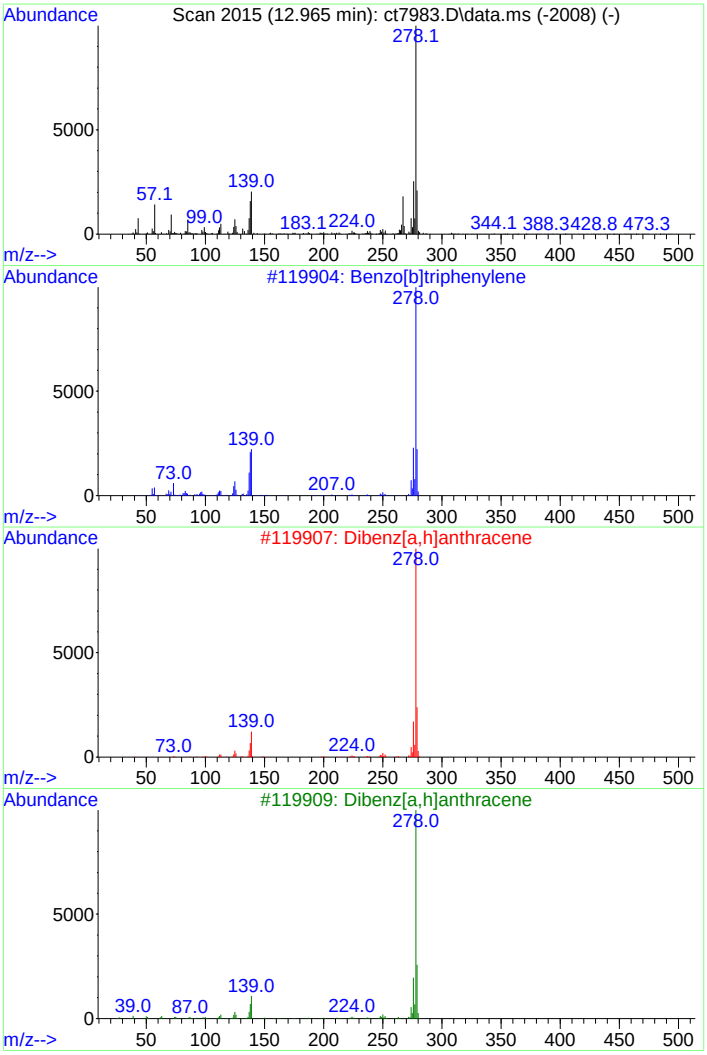
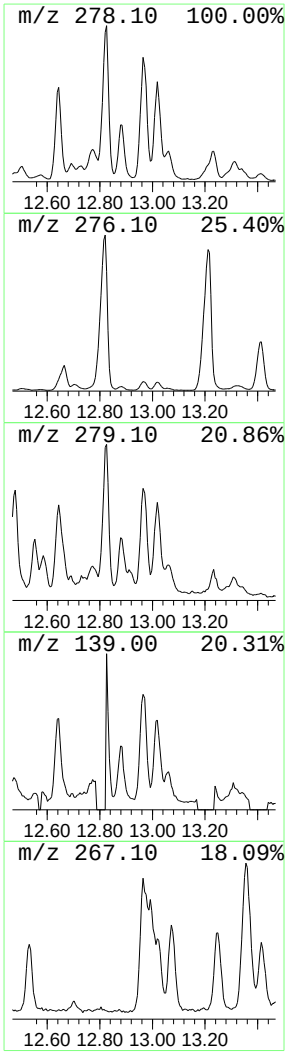
Peak Number 22 unknown PAH Substance Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.965	16.10 ppm	1579180	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	97
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	94
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	93
4	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
5	Pentacene	278	C22H14	000135-48-8	93





Library Search Compound Report

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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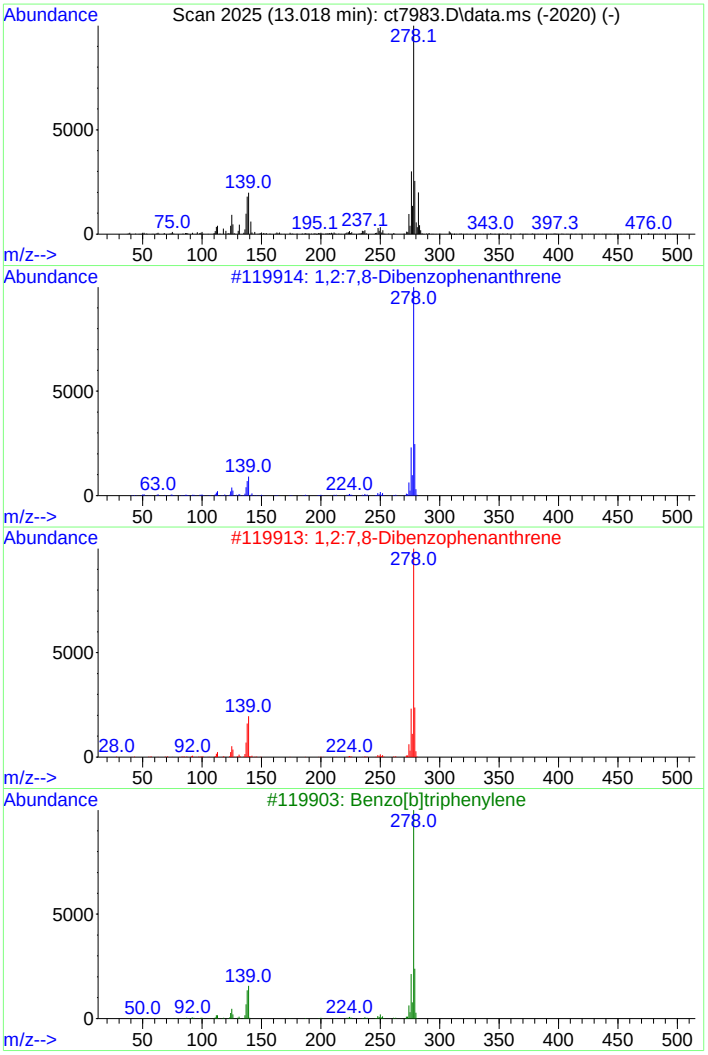
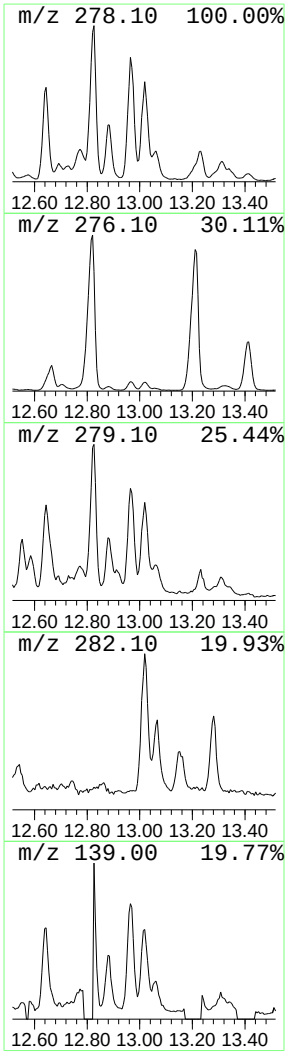
Peak Number 23 Dibenzophenanthrene Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.018	6.94 ppm	680784	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	98
2	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	98
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
4	Benzo[b]chrysene	278	C22H14	000214-17-5	96
5	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	96





Library Search Compound Report

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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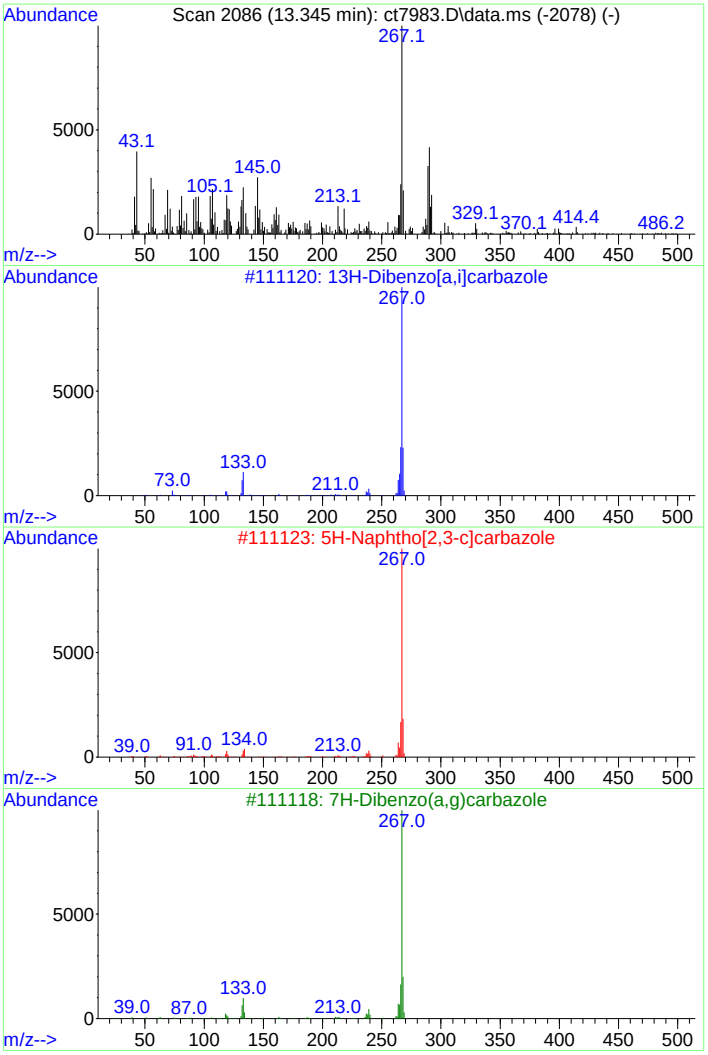
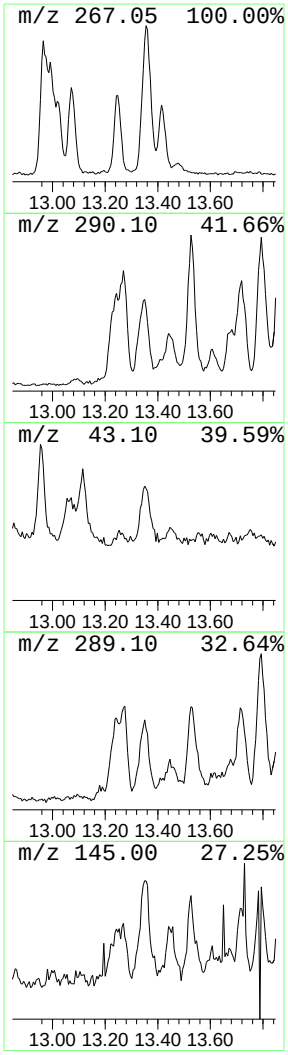
Peak Number 24 Dibenzo[]carbazole Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.345	13.85 ppm	1357830	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13H-Dibenzo[a,i]carbazole	267	C20H13N	000239-64-5	91
2	5H-Naphtho[2,3-c]carbazole	267	C20H13N	000198-96-9	78
3	7H-Dibenzo(a,g)carbazole	267	C20H13N	000207-84-1	70
4	7H-Dibenzo[c,g]carbazole	267	C20H13N	000194-59-2	64
5	13H-Dibenzo[a,i]carbazole	267	C20H13N	000239-64-5	60





Library Search Compound Report

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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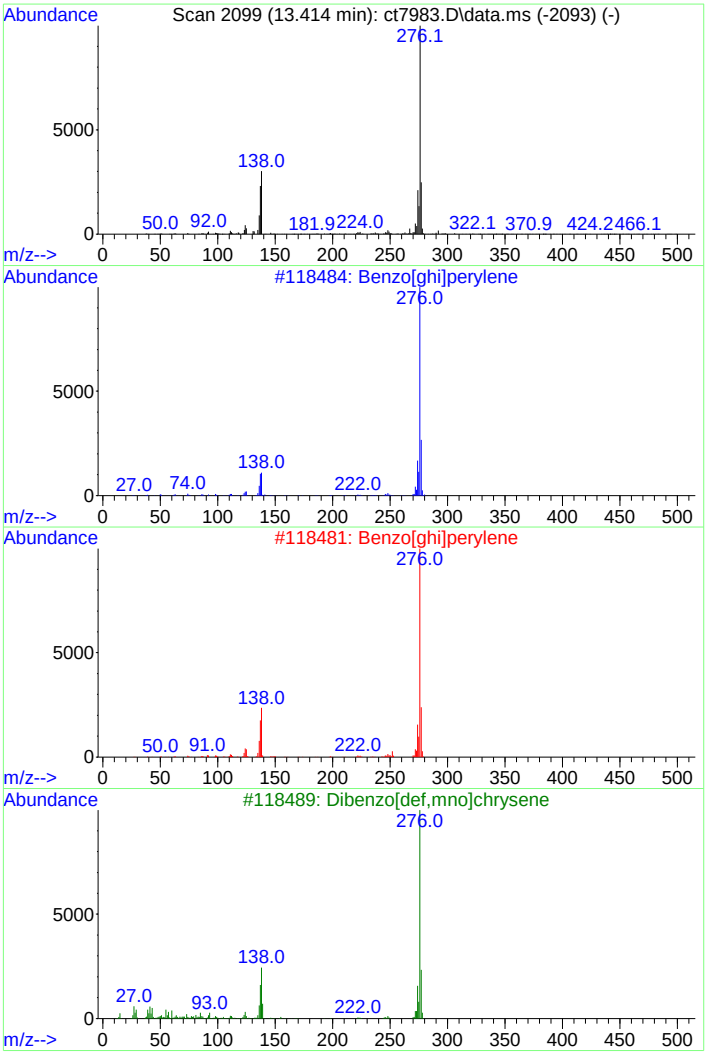
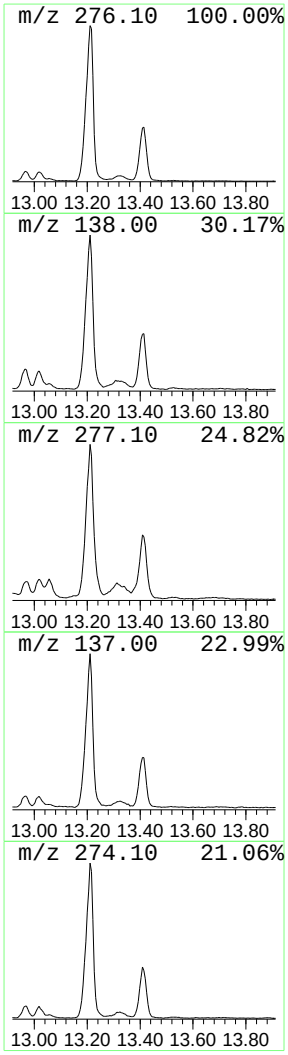
Peak Number 25 unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.414	23.29 ppm	2284190	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	96
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	94
3	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	93
4	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	93
5	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	91





Tentatively Identified Compound (LSC) summary

Data Path : R:\MSSEMI\Completed\7. July 2024\070324\HayderM\ECT375\
Data File : ct7983.D
Acq On : 03 Jul 2024 03:43 pm
Operator : karimam
Sample : jd91339-3
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Biphenyl, methyl-	5.974	7.3	ppm	711146	5	5.450	3907270	40.0
Naphtho[]thiophene	6.685	9.5	ppm	909077	6	6.792	3816920	40.0
Phenanthrene, m...	7.317	14.8	ppm	1414290	8	6.792	3816920	40.0
Phenanthrene, m...	7.349	23.9	ppm	2282880	8	6.792	3816920	40.0
Phenanthrene, m...	7.397	8.8	ppm	841087	8	6.792	3816920	40.0
Cyclopenta[def]...	7.440	42.4	ppm	4041700	8	6.792	3816920	40.0
Phenylnaphthalene	7.643	13.0	ppm	1239940	8	6.792	3816920	40.0
Phenanthrene, d...	7.926	7.4	ppm	702173	8	6.792	3816920	40.0
Cyclopenta(def)...	8.033	7.6	ppm	726961	8	6.792	3816920	40.0
unknown	8.274	12.8	ppm	1217850	8	6.792	3816920	40.0
11H-Benzo[]fluo...	8.761	9.6	ppm	3098110	9	9.809	12915000	40.0
unknown	10.649	8.6	ppm	845126	11	11.451	3922640	40.0
unknown	10.857	7.7	ppm	752343	11	11.451	3922640	40.0
unknown PAH Sub...	11.130	16.1	ppm	1579710	11	11.451	3922640	40.0
unknown	11.221	16.2	ppm	1588290	11	11.451	3922640	40.0
unknown PAH Sub...	11.328	45.4	ppm	4456440	11	11.451	3922640	40.0
unknown	11.612	7.0	ppm	688369	11	11.451	3922640	40.0
unknown	11.751	10.0	ppm	984876	11	11.451	3922640	40.0
unknown	11.975	14.1	ppm	1379690	11	11.451	3922640	40.0
unknown PAH Sub...	12.644	16.1	ppm	1584060	11	11.451	3922640	40.0
unknown	12.697	7.0	ppm	681549	11	11.451	3922640	40.0
unknown PAH Sub...	12.965	16.1	ppm	1579180	11	11.451	3922640	40.0
Dibenzophenanth...	13.018	6.9	ppm	680784	11	11.451	3922640	40.0
Dibenzo[]carbazole	13.345	13.9	ppm	1357830	11	11.451	3922640	40.0
unknown	13.414	23.3	ppm	2284190	11	11.451	3922640	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jacky Takeuchi 07/03/24 21:22

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7984.D
Acq On : 03 Jul 2024 04:02 pm
Operator : karimam
Sample : jd91339-4 Inst : GCMS_CT
Misc : op55800,ect375,15.3,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 03 22:01:18 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

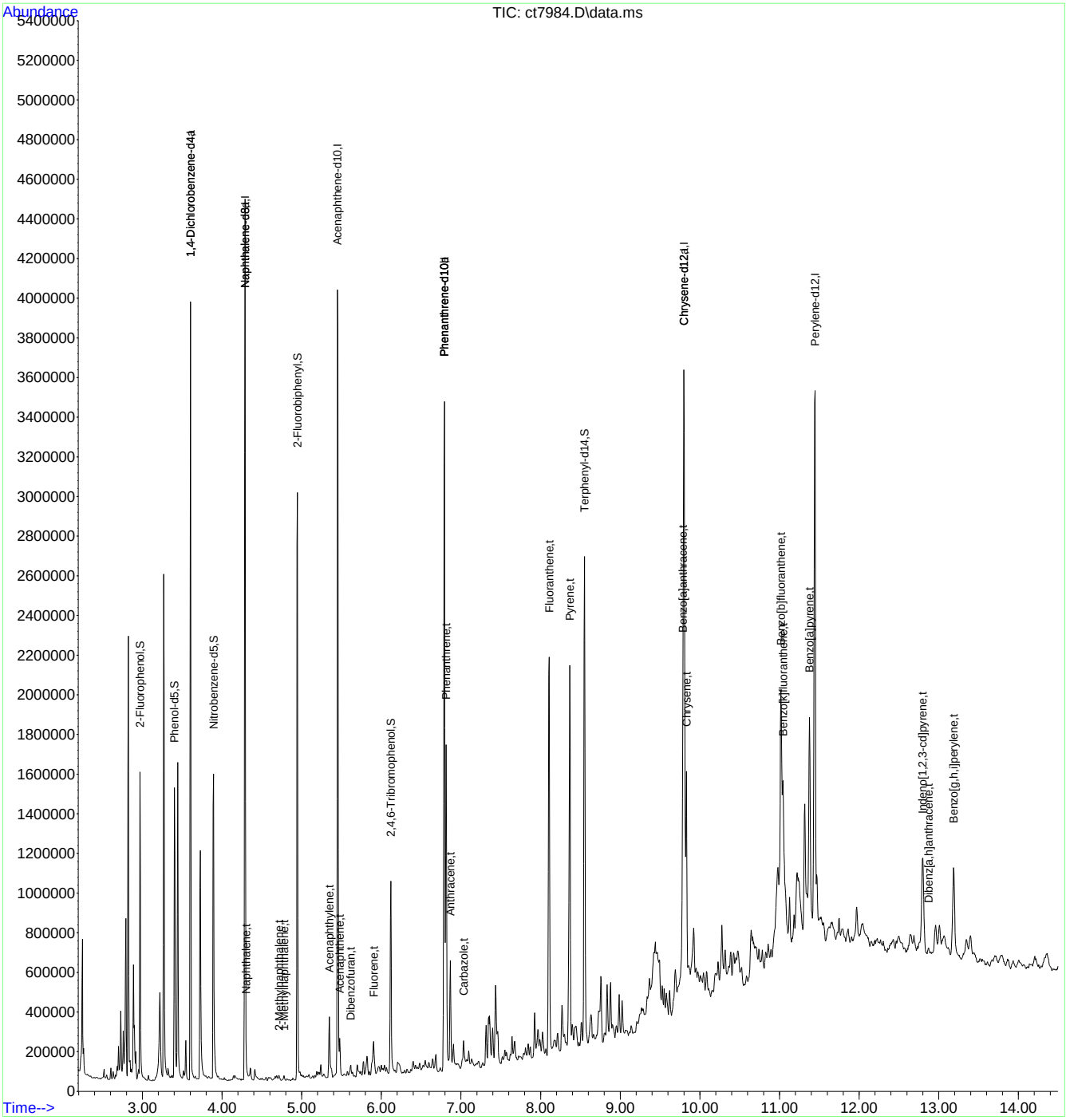
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.605	152	399079	40.00	ppm	0.00
24) Naphthalene-d8	4.289	136	1480455	40.00	ppm	0.00
46) Acenaphthene-d10	5.450	164	790158	40.00	ppm	0.00
69) Phenanthrene-d10	6.792	188	1294555	40.00	ppm	0.00
84) Chrysene-d12	9.798	240	949184	40.00	ppm	0.00
93) Perylene-d12	11.446	264	1181134	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	3.605	152	399079	40.00	ppm	0.00
105) Phenanthrene-d10a	6.792	188	1294555	40.00	ppm	0.00
107) Naphthalene-d8a	4.289	136	1480455	40.00	ppm	0.00
109) Phenanthrene-d10b	6.792	188	1294555	40.00	ppm	0.00
112) Chrysene-d12a	9.798	240	949184	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.968	112	327414	25.44	ppm	0.00
Spiked Amount 50.000			Recovery = 50.88%			
8) Phenol-d5	3.401	99	434117	26.93	ppm	0.00
Spiked Amount 50.000			Recovery = 53.86%			
25) Nitrobenzene-d5	3.893	82	432384	28.40	ppm	0.00
Spiked Amount 50.000			Recovery = 56.80%			
51) 2-Fluorobiphenyl	4.947	172	778202	31.57	ppm	0.00
Spiked Amount 50.000			Recovery = 63.14%			
74) 2,4,6-Tribromophenol	6.119	330	88849	36.12	ppm	0.00
Spiked Amount 50.000			Recovery = 72.24%			
87) Terphenyl-d14	8.552	244	783258	33.29	ppm	-0.02
Spiked Amount 50.000			Recovery = 66.58%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
38) Naphthalene	4.300	128	11950	0.3203	ppm	96
44) 2-Methylnaphthalene	4.717	141	5389	0.2466	ppm	99
45) 1-Methylnaphthalene	4.781	141	5810	0.2777	ppm	90
56) Acenaphthylene	5.348	152	127673	4.2476	ppm	100
59) Acenaphthene	5.477	153	32418	1.4258	ppm	95
62) Dibenzofuran	5.616	168	20186	0.6651	ppm	94
66) Fluorene	5.905	166	52024	2.1640	ppm	97
78) Phenanthrene	6.814	178	554251	16.6483	ppm	99
79) Anthracene	6.867	178	208585	6.4767	ppm	97
80) Carbazole	7.033	167	57306	1.8465	ppm	98
82) Fluoranthene	8.108	202	851205	26.7331	ppm	96
86) Pyrene	8.365	202	801517	23.7788	ppm	99
89) Benzo[a]anthracene	9.788	228	385524m	13.0428	ppm	
91) Chrysene	9.831	228	387175m	13.3642	ppm	
95) Benzo[b]fluoranthene	11.018	252	466837m	13.9221	ppm	
96) Benzo[k]fluoranthene	11.045	252	175906m	5.3181	ppm	
97) Benzo[a]pyrene	11.376	252	401015	14.6654	ppm	99
98) Indeno[1,2,3-cd]pyrene	12.794	276	285956m	8.1426	ppm	
100) Dibenz[a,h]anthracene	12.874	278	24303	0.8589	ppm	94
102) Benzo[g,h,i]perylene	13.184	276	295112	10.8959	ppm	97

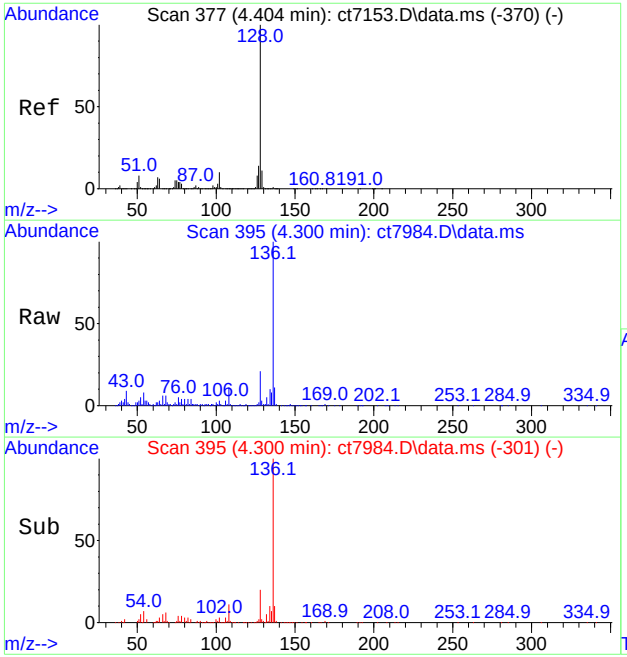
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7984.D
Acq On : 03 Jul 2024 04:02 pm
Operator : karimam
Sample : jd91339-4 Inst : GCMS_CT
Misc : op55800,ect375,15.3,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 03 22:01:18 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

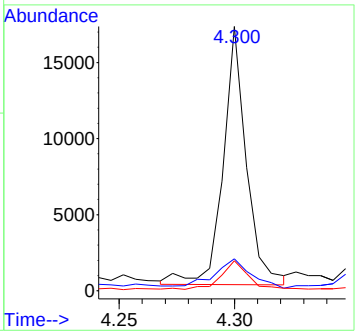


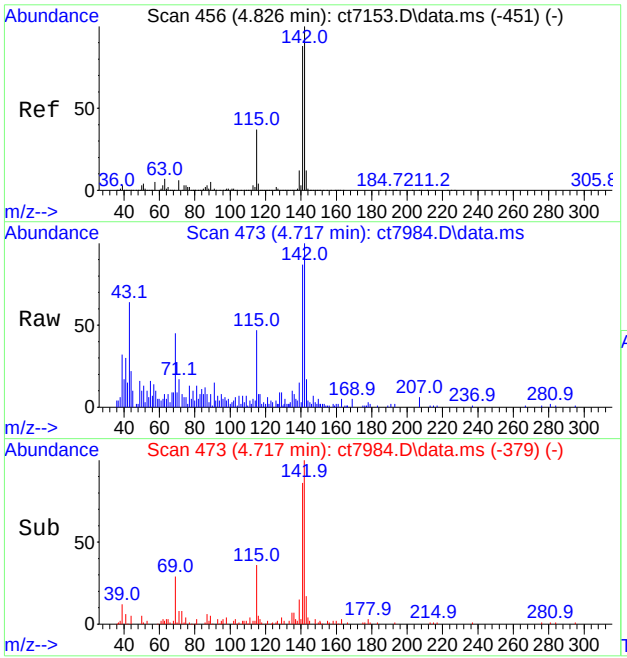


#38
Naphthalene
Concen: 0.3203 ppm
RT: 4.300 min Scan# 395
Delta R.T. 0.000 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:128 Resp: 11950

Ion	Ratio	Lower	Upper
128	100		
129	11.2	0.0	41.4
127	11.1	0.0	43.8

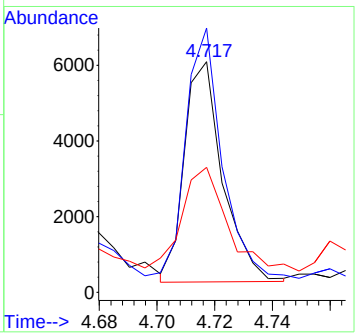


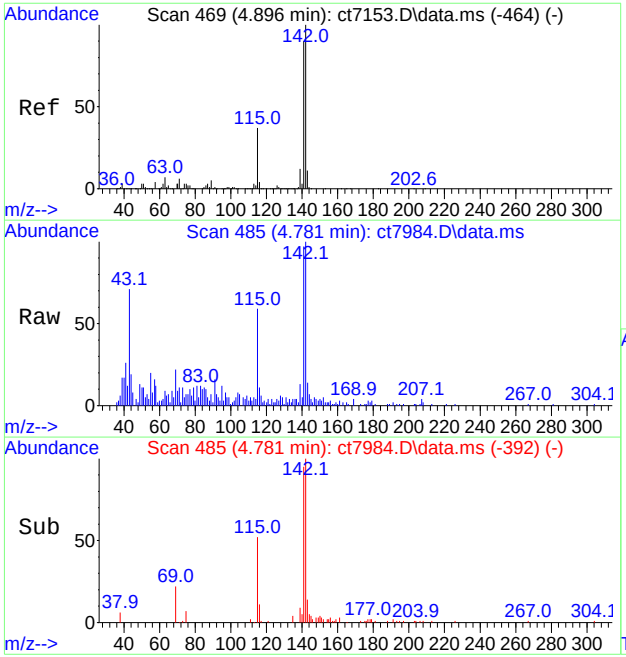


#44
2-Methylnaphthalene
Concen: 0.2466 ppm
RT: 4.717 min Scan# 473
Delta R.T. 0.004 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:141 Resp: 5389

Ion	Ratio	Lower	Upper
141	100		
142	114.6	85.1	145.1
115	43.7	12.5	72.5

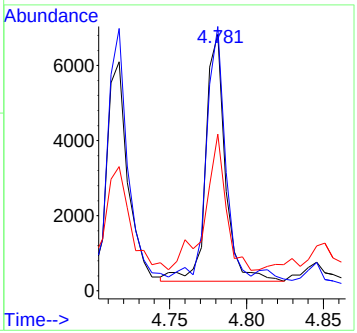


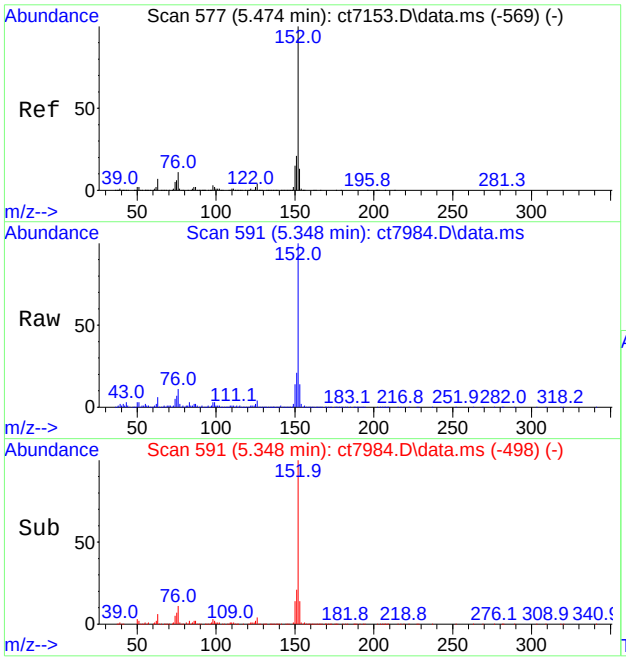


#45
1-Methylnaphthalene
Concen: 0.2777 ppm
RT: 4.781 min Scan# 485
Delta R.T. -0.000 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:141 Resp: 5810

Ion	Ratio	Lower	Upper
141	100		
142	102.1	78.9	138.9
115	53.0	11.3	71.3

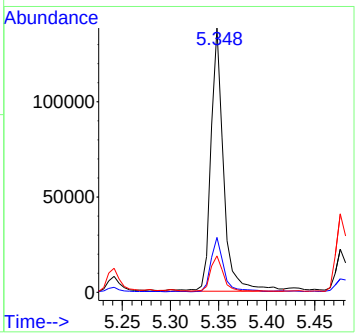


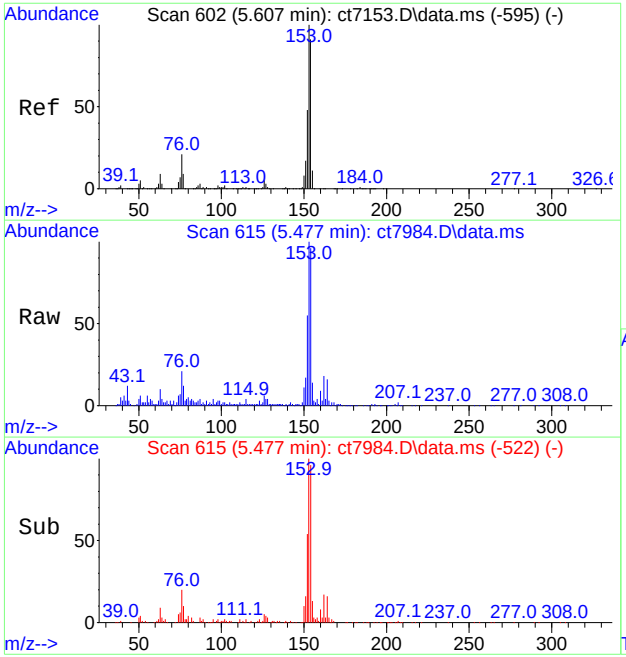


#56
Acenaphthylene
Concen: 4.2476 ppm
RT: 5.348 min Scan# 591
Delta R.T. -0.002 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:152 Resp: 127673

Ion	Ratio	Lower	Upper
152	100		
151	20.5	0.0	50.9
153	13.3	0.0	43.3

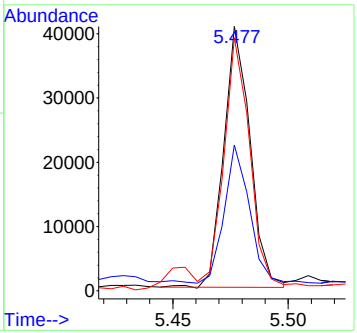


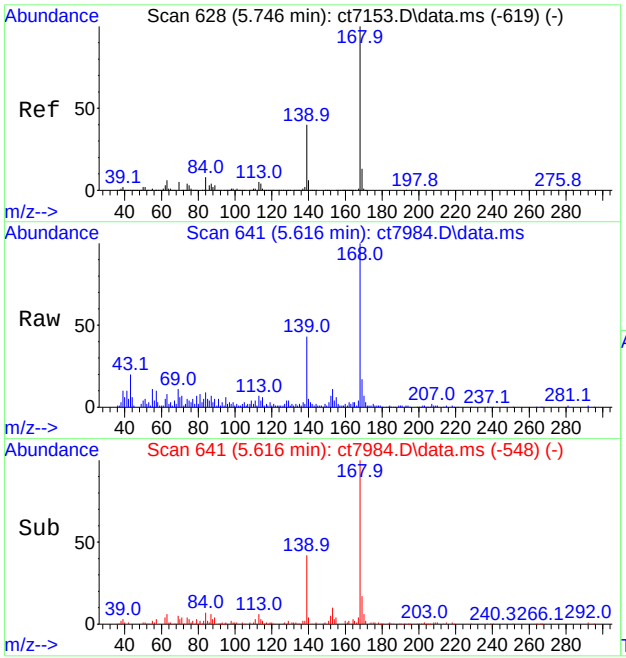


#59
Acenaphthene
Concen: 1.4258 ppm
RT: 5.477 min Scan# 615
Delta R.T. -0.005 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:153 Resp: 32418

Ion	Ratio	Lower	Upper
153	100		
152	52.9	18.3	78.3
154	95.0	60.9	120.9

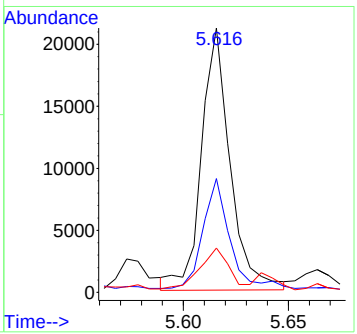


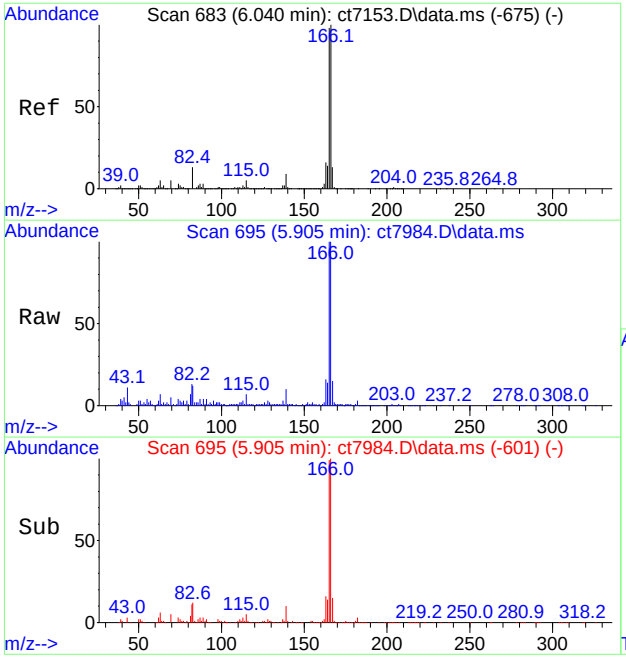


#62
Dibenzofuran
Concen: 0.6651 ppm
RT: 5.616 min Scan# 641
Delta R.T. -0.002 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:168 Resp: 20186

Ion	Ratio	Lower	Upper
168	100		
139	43.3	9.5	69.5
169	15.4	0.0	43.4

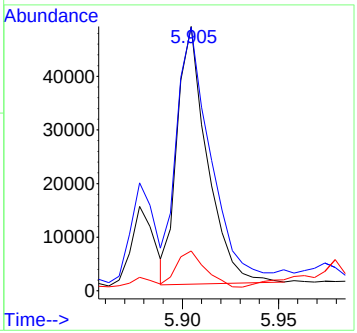


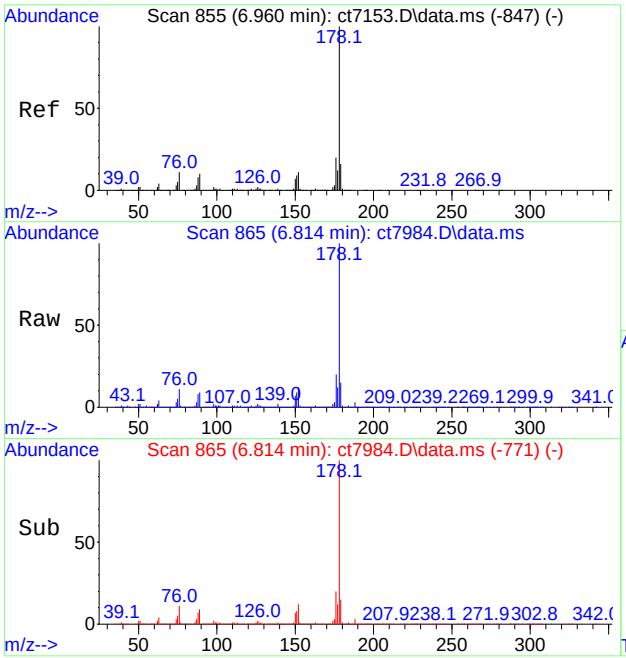


#66
Fluorene
Concen: 2.1640 ppm
RT: 5.905 min Scan# 695
Delta R.T. 0.004 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:166 Resp: 52024

Ion	Ratio	Lower	Upper
166	100		
165	94.9	67.6	127.6
167	12.7	0.0	43.5

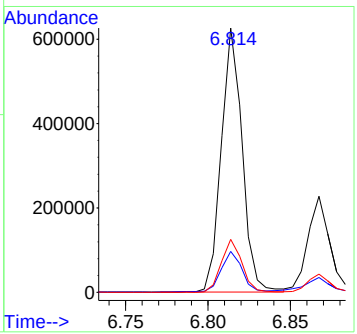


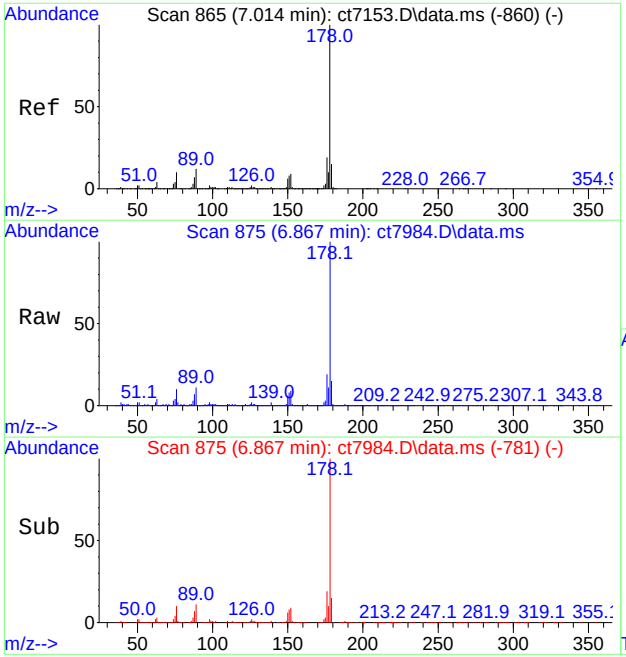


#78
Phenanthrene
Concen: 16.6483 ppm
RT: 6.814 min Scan# 865
Delta R.T. 0.001 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:178 Resp: 554251

Ion	Ratio	Lower	Upper
178	100		
179	15.1	0.0	46.0
176	20.0	0.0	50.0

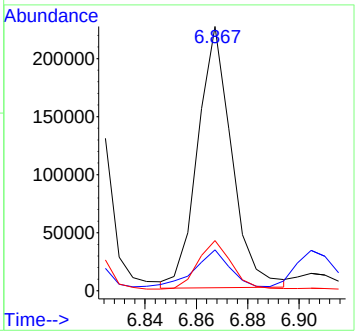


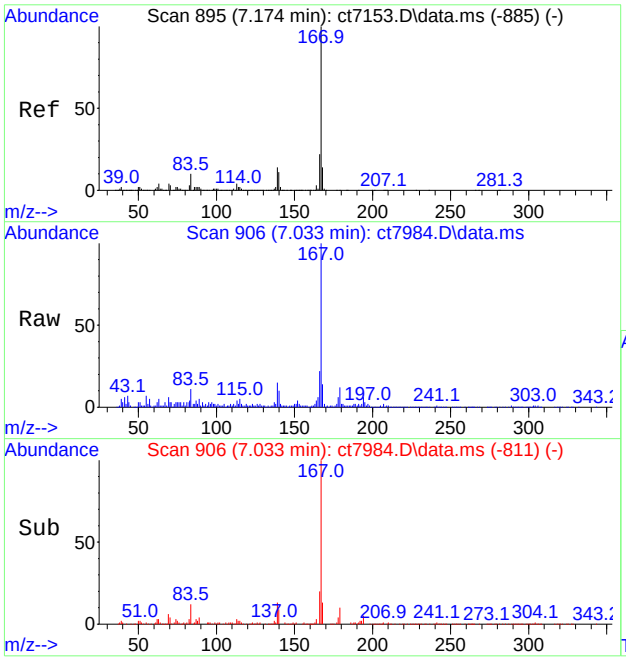


#79
Anthracene
Concen: 6.4767 ppm
RT: 6.867 min Scan# 875
Delta R.T. 0.001 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:178 Resp: 208585

Ion	Ratio	Lower	Upper
178	100		
179	12.9	0.0	45.5
176	19.0	0.0	49.3

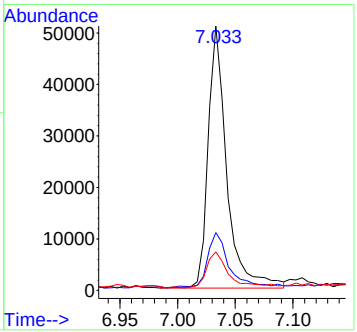


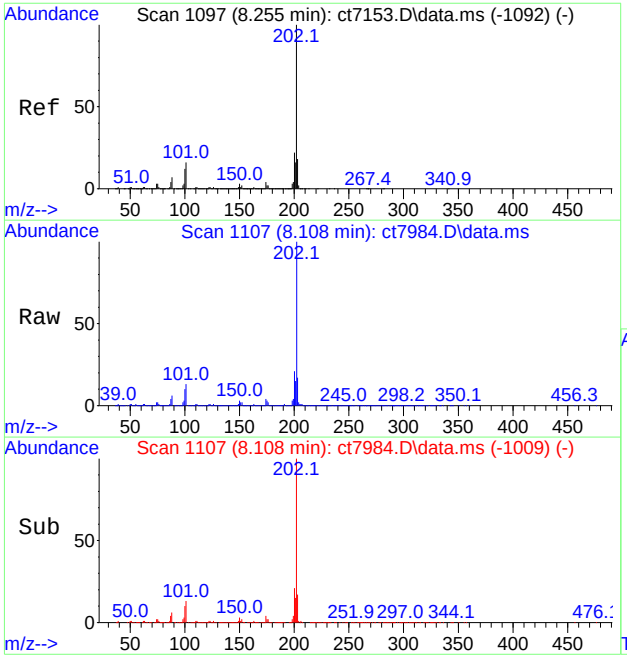


#80
Carbazole
Concen: 1.8465 ppm
RT: 7.033 min Scan# 906
Delta R.T. 0.010 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:167 Resp: 57306

Ion	Ratio	Lower	Upper
167	100		
166	20.7	0.0	51.7
139	13.1	0.0	43.9

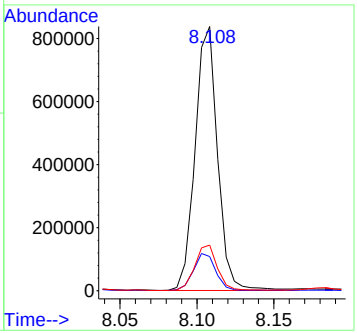


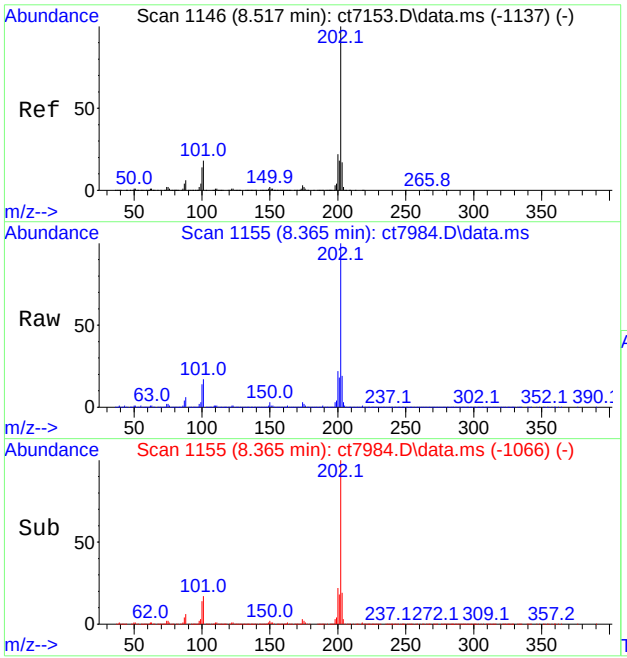


#82
Fluoranthene
Concen: 26.7331 ppm
RT: 8.108 min Scan# 1107
Delta R.T. 0.025 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:202 Resp: 851205

Ion	Ratio	Lower	Upper
202	100		
101	12.9	0.0	45.3
203	17.2	0.0	48.1

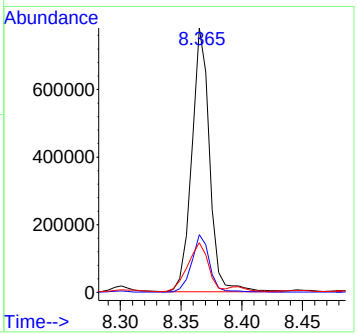


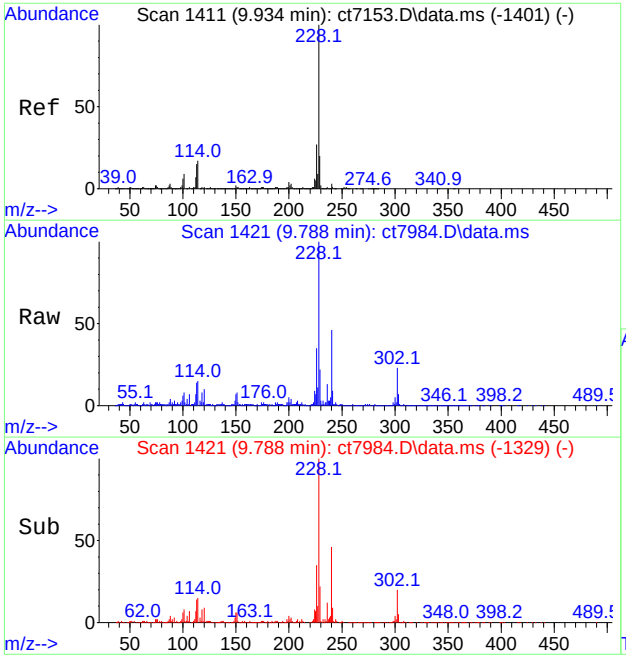


#86
Pyrene
Concen: 23.7788 ppm
RT: 8.365 min Scan# 1155
Delta R.T. -0.024 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:202 Resp: 801517

Ion	Ratio	Lower	Upper
202	100		
200	21.8	0.0	52.3
203	18.4	0.0	47.9

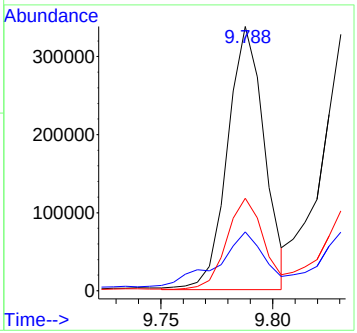


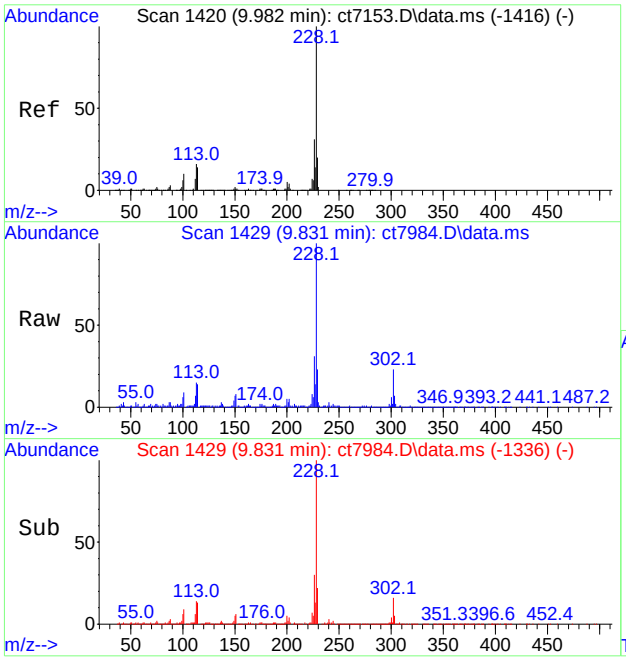


#89
Benzo[a]anthracene
Concen: 13.0428 ppm m
RT: 9.788 min Scan# 1421
Delta R.T. -0.005 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:228 Resp: 385524

Ion	Ratio	Lower	Upper
228	100		
229	22.3	0.0	50.0
226	35.0	0.0	57.3

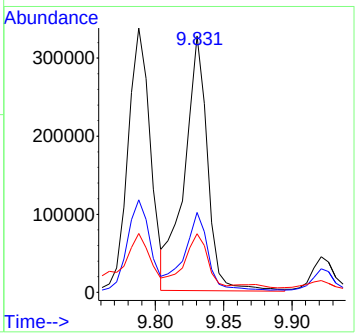


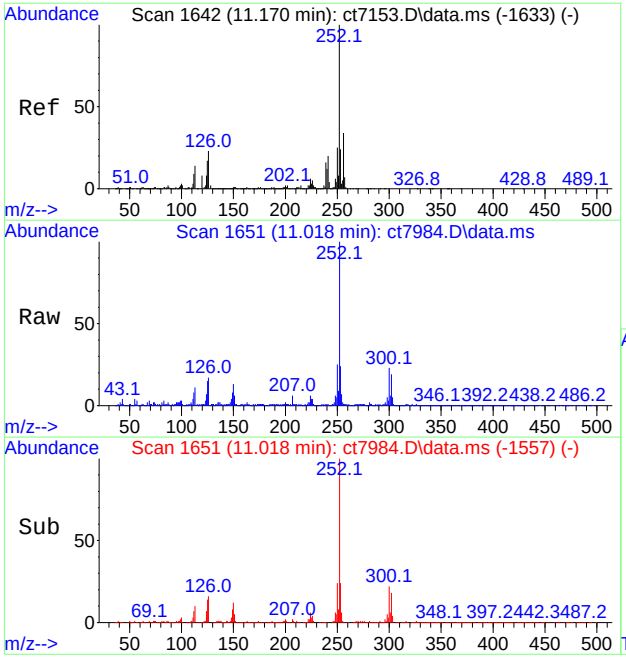


#91
Chrysene
Concen: 13.3642 ppm m
RT: 9.831 min Scan# 1429
Delta R.T. -0.005 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:228 Resp: 387175

Ion	Ratio	Lower	Upper
228	100		
226	31.1	1.8	61.8
229	22.9	0.0	49.9

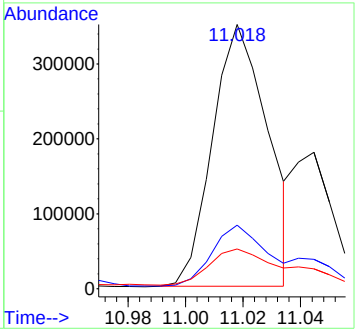


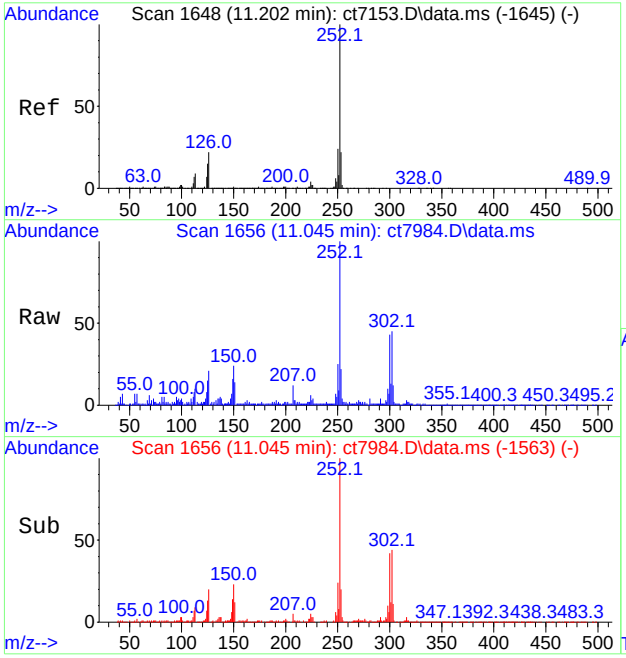


#95
Benzo[b]fluoranthene
Concen: 13.9221 ppm m
RT: 11.018 min Scan# 1651
Delta R.T. 0.000 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:252 Resp: 466837

Ion	Ratio	Lower	Upper
252	100		
253	24.1	0.0	53.9
125	15.1	0.0	45.9

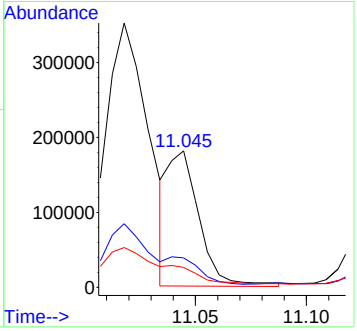


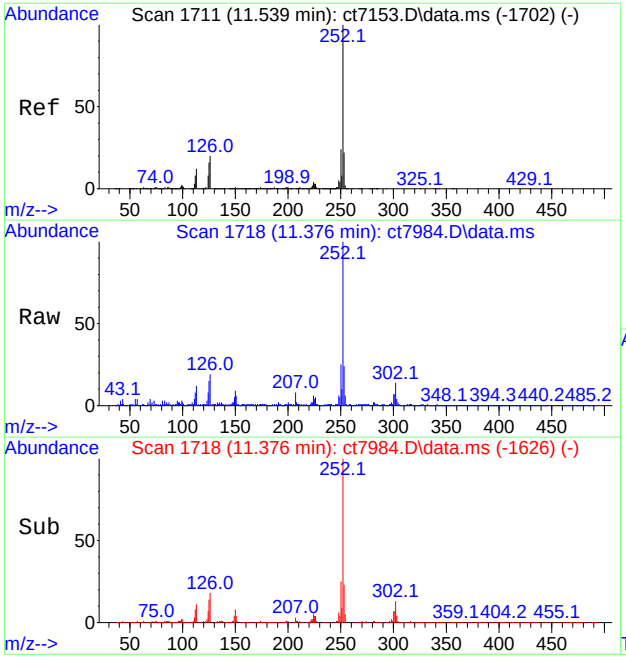


#96
Benzo[k]fluoranthene
Concen: 5.3181 ppm m
RT: 11.045 min Scan# 1656
Delta R.T. -0.005 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:252 Resp: 175906

Ion	Ratio	Lower	Upper
252	100		
253	21.6	0.0	51.8
125	14.7	0.0	43.8

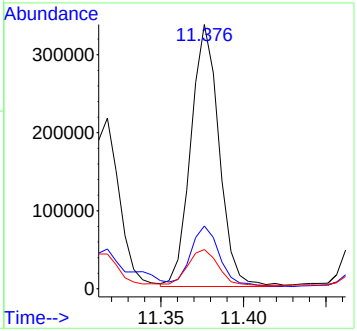


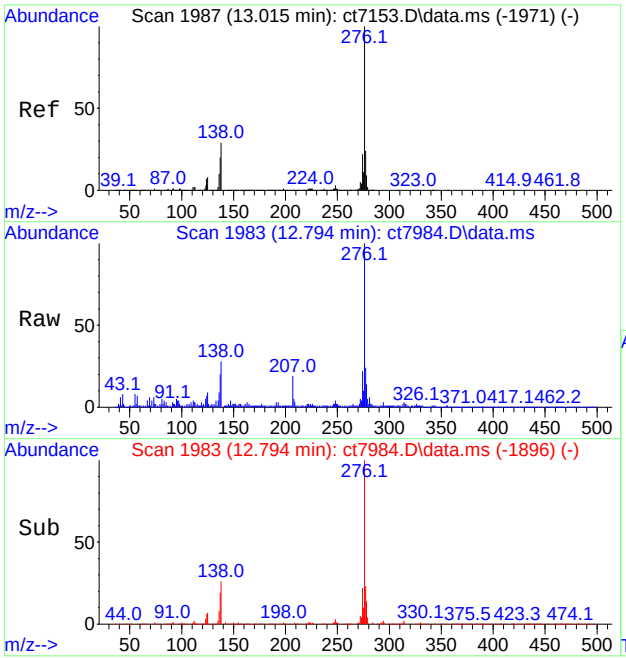


#97
Benzo[a]pyrene
Concen: 14.6654 ppm
RT: 11.376 min Scan# 1718
Delta R.T. -0.006 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:252 Resp: 401015

Ion	Ratio	Lower	Upper
252	100		
253	22.1	0.0	51.9
125	13.7	0.0	44.9

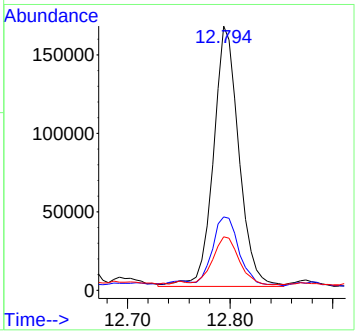


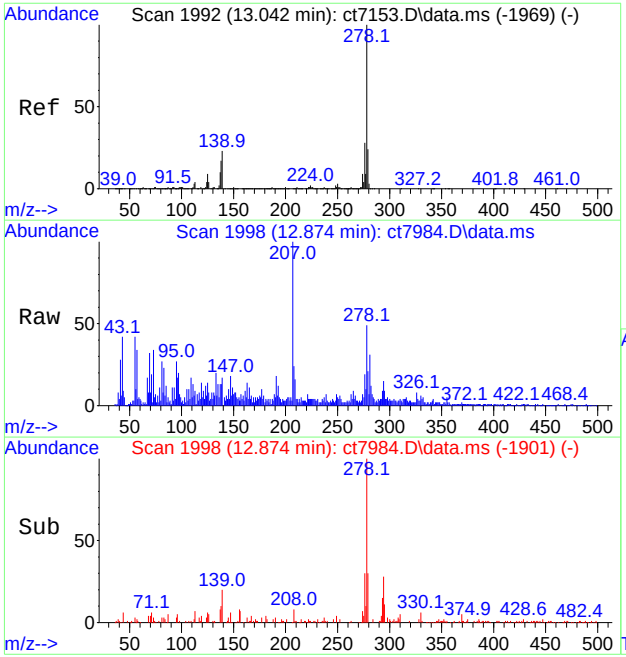


#98
Indeno[1,2,3-cd]pyrene
Concen: 8.1426 ppm m
RT: 12.794 min Scan# 1983
Delta R.T. -0.037 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:276 Resp: 285956

Ion	Ratio	Lower	Upper
276	100		
138	27.7	0.0	59.6
137	20.2	0.0	50.8

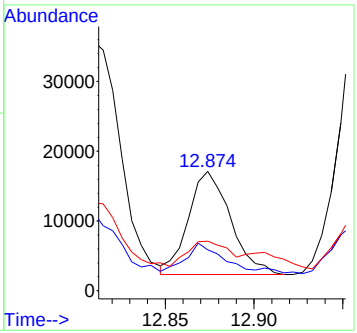


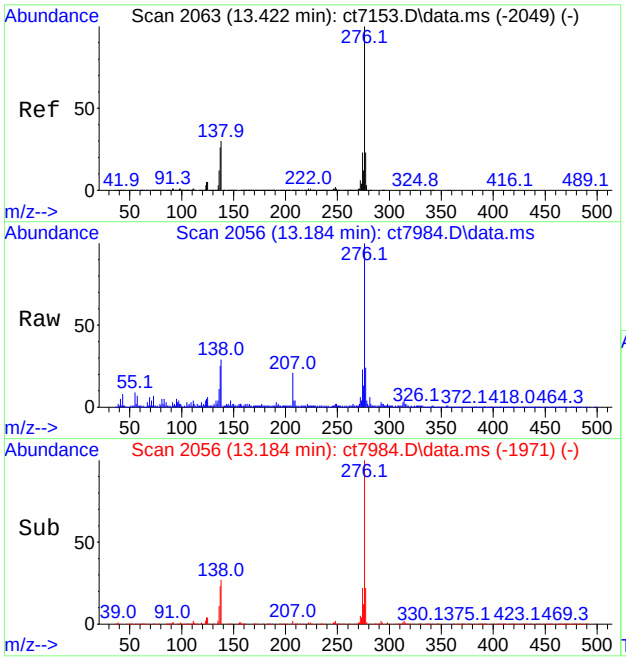


#100
Dibenz[a,h]anthracene
Concen: 0.8589 ppm
RT: 12.874 min Scan# 1998
Delta R.T. 0.017 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:278 Resp: 24303

Ion	Ratio	Lower	Upper
278	100		
139	22.6	0.0	54.0
279	20.2	0.0	54.5

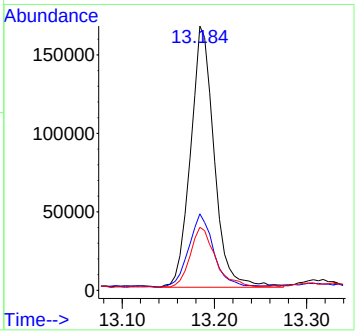




#102
Benzo[g,h,i]perylene
Concen: 10.8959 ppm
RT: 13.184 min Scan# 2056
Delta R.T. -0.048 min
Lab File: ct7984.D
Acq: 03 Jul 2024 04:02 pm

Tgt Ion:276 Resp: 295112

Ion	Ratio	Lower	Upper
276	100		
138	27.8	0.0	59.8
277	22.7	0.0	53.4



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7984.D
Acq On : 03 Jul 2024 04:02 pm
Operator : karimam
Sample : jd91339-4
Misc : op55800,ect375,15.3,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: ct7984.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.161	367	369	379	rVV5	24968	41341	0.91%	0.074%
2	4.289	388	393	401	rVV	4442267	3163204	69.36%	5.697%
3	4.353	401	405	412	rVB	60764	71920	1.58%	0.130%
4	4.412	413	416	427	rBV	55184	83145	1.82%	0.150%
5	4.712	470	472	478	rVB3	26624	32018	0.70%	0.058%
6	4.776	478	484	489	rBV2	24664	30525	0.67%	0.055%
7	4.947	509	516	524	rBV	2964375	2384594	52.29%	4.295%
8	5.241	569	571	574	rVB	59861	44458	0.97%	0.080%
9	5.348	585	591	599	rBV	306896	329826	7.23%	0.594%
10	5.450	599	610	622	rBV	3972144	3624290	79.47%	6.528%
11	5.616	636	641	644	rBV2	52633	64496	1.41%	0.116%
12	5.696	653	656	663	rBV2	61825	101414	2.22%	0.183%
13	5.776	667	671	674	rVV2	74739	76733	1.68%	0.138%
14	5.819	674	679	683	rVV2	100073	130961	2.87%	0.236%
15	5.905	687	695	700	rVV2	171028	292380	6.41%	0.527%
16	5.969	700	707	710	rVV6	40877	78882	1.73%	0.142%
17	6.001	710	713	715	rVV2	45311	48255	1.06%	0.087%
18	6.038	718	720	723	rVV2	43450	44599	0.98%	0.080%
19	6.065	723	725	730	rVB	30079	29304	0.64%	0.053%
20	6.119	730	735	743	rBV	970279	964241	21.14%	1.737%
21	6.204	747	751	761	rVB6	56420	131333	2.88%	0.237%
22	6.402	784	788	791	rBV3	49738	68205	1.50%	0.123%
23	6.482	800	803	806	rVB	34772	33411	0.73%	0.060%
24	6.552	813	816	822	rVV3	41108	51504	1.13%	0.093%
25	6.643	830	833	836	rVB3	48674	48730	1.07%	0.088%
26	6.685	836	841	847	rVB2	89550	123050	2.70%	0.222%
27	6.792	855	861	863	rBV	3380382	3370220	73.90%	6.070%
28	6.814	863	865	870	rVV	1620499	1350447	29.61%	2.432%
29	6.867	870	875	879	rVV	529441	493819	10.83%	0.889%
30	6.905	879	882	889	rVB	105405	120903	2.65%	0.218%
31	7.033	898	906	911	rBV2	141062	229587	5.03%	0.413%
32	7.097	916	918	921	rVV2	82367	76046	1.67%	0.137%
33	7.135	922	925	931	rVB3	37116	59582	1.31%	0.107%
34	7.220	938	941	945	rVB4	33068	41627	0.91%	0.075%
35	7.317	955	959	962	rBV	202383	204181	4.48%	0.368%
36	7.359	962	967	971	rVV2	238585	437719	9.60%	0.788%
37	7.397	971	974	977	rVV	168941	171772	3.77%	0.309%
38	7.434	977	981	994	rVB2	396713	664081	14.56%	1.196%
39	7.520	994	997	999	rBV3	36789	42605	0.93%	0.077%
40	7.552	1000	1003	1005	rBV2	48639	41299	0.91%	0.074%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7984.D
Acq On : 03 Jul 2024 04:02 pm
Operator : karimam
Sample : jd91339-4
Misc : op55800,ect375,15.3,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	7.643	1013	1020	1022	rBV2	122690	157828	3.46%	0.284%
42	7.675	1023	1026	1033	rVB	95381	117506	2.58%	0.212%
43	7.787	1044	1047	1048	rBV2	33466	30893	0.68%	0.056%
44	7.809	1049	1051	1054	rVV	50285	43063	0.94%	0.078%
45	7.846	1054	1058	1060	rVV	60556	57742	1.27%	0.104%
46	7.873	1060	1063	1066	rVB3	57782	55636	1.22%	0.100%
47	7.926	1068	1073	1076	rBV	225738	252469	5.54%	0.455%
48	7.964	1076	1080	1083	rBV2	95721	113355	2.49%	0.204%
49	8.023	1088	1091	1096	rVB2	108026	132757	2.91%	0.239%
50	8.108	1102	1107	1113	rBV	2009663	2114724	46.37%	3.809%
51	8.172	1115	1119	1123	rBV4	38791	62650	1.37%	0.113%
52	8.215	1123	1127	1132	rVB	91358	111266	2.44%	0.200%
53	8.269	1132	1137	1141	rBV3	232576	303047	6.64%	0.546%
54	8.365	1149	1155	1159	rBV	1916370	2134228	46.80%	3.844%
55	8.445	1164	1170	1175	rVB4	101714	214588	4.71%	0.386%
56	8.515	1179	1183	1185	rBV	118162	128946	2.83%	0.232%
57	8.552	1185	1190	1199	rVB	2452902	2501289	54.85%	4.505%
58	8.632	1199	1205	1209	rBV4	142998	254490	5.58%	0.458%
59	8.755	1219	1228	1233	rVB	334559	626041	13.73%	1.128%
60	8.809	1233	1238	1239	rBV3	48992	67189	1.47%	0.121%
61	8.836	1240	1243	1247	rBV	255169	256776	5.63%	0.462%
62	8.878	1247	1251	1254	rBV	249666	264079	5.79%	0.476%
63	8.953	1261	1265	1267	rBV3	61937	76380	1.67%	0.138%
64	8.985	1267	1271	1275	rVV	209831	224021	4.91%	0.403%
65	9.023	1275	1278	1284	rVB2	166937	176117	3.86%	0.317%
66	9.135	1297	1299	1303	rVB5	38108	37751	0.83%	0.068%
67	9.210	1309	1313	1316	rBV6	56543	91002	2.00%	0.164%
68	9.269	1317	1324	1326	rVV3	73075	144614	3.17%	0.260%
69	9.365	1334	1342	1345	rBV2	173258	349777	7.67%	0.630%
70	9.440	1347	1356	1370	rVV5	329226	1573155	34.49%	2.833%
71	9.526	1370	1372	1375	rVB	97775	80432	1.76%	0.145%
72	9.552	1375	1377	1380	rVB	96552	68999	1.51%	0.124%
73	9.579	1380	1382	1387	rVB2	109919	124460	2.73%	0.224%
74	9.622	1387	1390	1394	rVB	126636	131956	2.89%	0.238%
75	9.691	1395	1403	1407	rBV4	215723	420469	9.22%	0.757%
76	9.798	1414	1423	1427	rBV2	3068533	4560581	100.00%	8.214%
77	9.831	1427	1429	1433	rVB	987391	840856	18.44%	1.514%
78	9.921	1441	1446	1450	rVB3	220894	291771	6.40%	0.525%
79	10.082	1474	1476	1486	rVB4	127861	204112	4.48%	0.368%
80	10.194	1493	1497	1500	rBV3	87879	159021	3.49%	0.286%
81	10.232	1501	1504	1507	rVV2	119137	138569	3.04%	0.250%
82	10.274	1507	1512	1517	rVV2	283998	436711	9.58%	0.787%
83	10.317	1517	1520	1524	rVB	124932	146932	3.22%	0.265%
84	10.387	1531	1533	1536	rVB2	119019	113034	2.48%	0.204%
85	10.424	1537	1540	1543	rBV2	104995	140147	3.07%	0.252%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7984.D
Acq On : 03 Jul 2024 04:02 pm
Operator : karimam
Sample : jd91339-4
Misc : op55800,ect375,15.3,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	10.644	1576	1581	1590	rBV5	240583	721926	15.83%	1.300%
87	10.825	1612	1615	1618	rBV3	83873	120951	2.65%	0.218%
88	10.980	1631	1644	1646	rBV6	448301	1181710	25.91%	2.128%
89	11.018	1646	1651	1667	rVV3	1312652	3738054	81.96%	6.732%
90	11.125	1668	1671	1676	rVB	233596	264157	5.79%	0.476%
91	11.184	1679	1682	1684	rVV	125379	137352	3.01%	0.247%
92	11.221	1684	1689	1702	rVV5	317997	1109754	24.33%	1.999%
93	11.317	1702	1707	1713	rVV	639251	1005651	22.05%	1.811%
94	11.376	1714	1718	1725	rVV	1052943	1426109	31.27%	2.568%
95	11.446	1725	1731	1741	rVB	2671874	3524233	77.28%	6.347%
96	11.970	1826	1829	1835	rVB4	146874	184261	4.04%	0.332%
97	12.799	1978	1984	1994	rVB2	483425	937921	20.57%	1.689%
98	12.960	2010	2014	2018	rBV2	119468	183409	4.02%	0.330%
99	13.008	2020	2023	2027	rVB3	98542	131190	2.88%	0.236%
100	13.184	2050	2056	2075	rVB	462342	928222	20.35%	1.672%

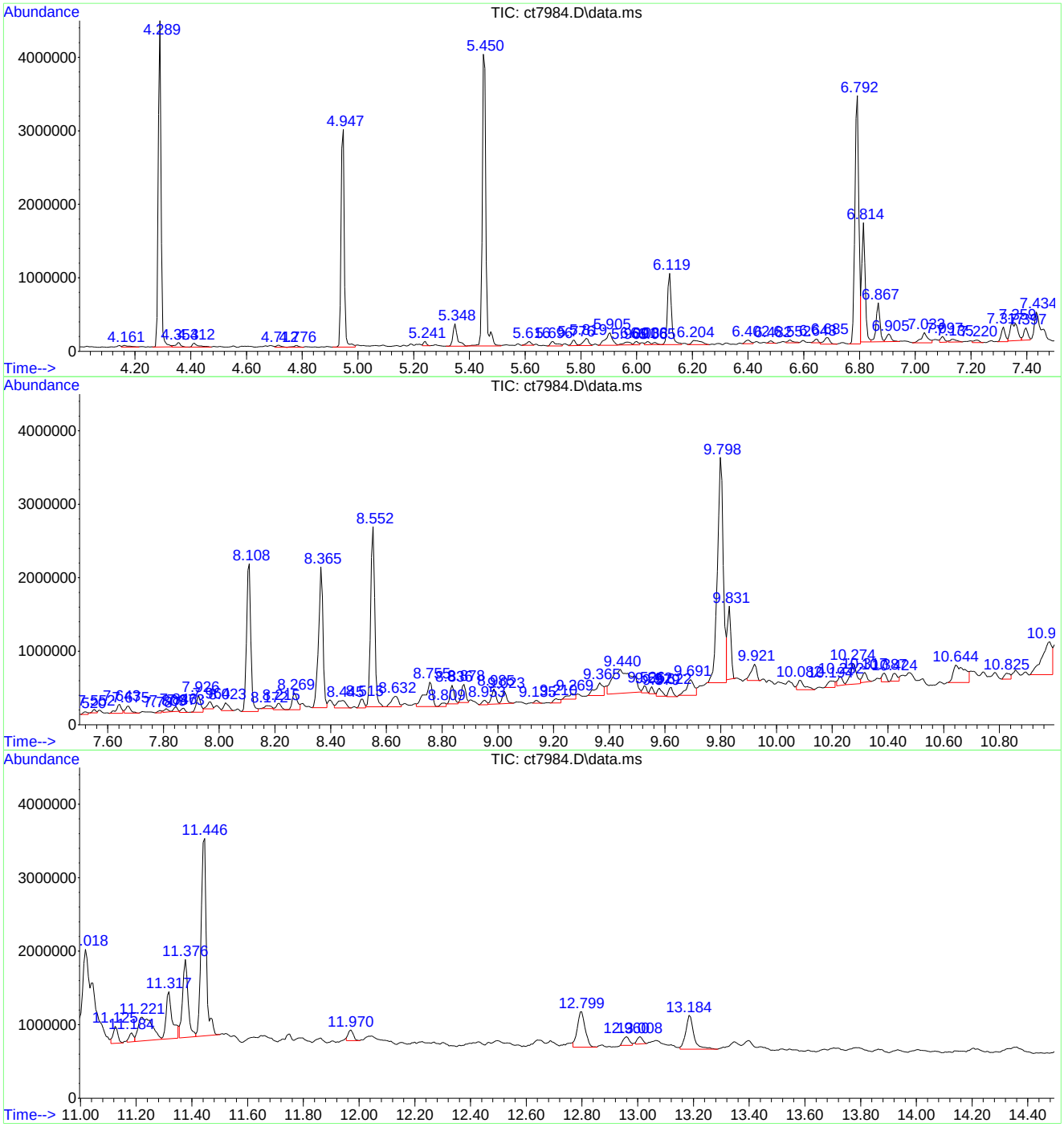
Sum of corrected areas: 55523036

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7984.D
Acq On : 03 Jul 2024 04:02 pm
Operator : karimam
Sample : jd91339-4
Misc : op55800,ect375,15.3,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7984.D
Acq On : 03 Jul 2024 04:02 pm
Operator : karimam
Sample : jd91339-4
Misc : op55800,ect375,15.3,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

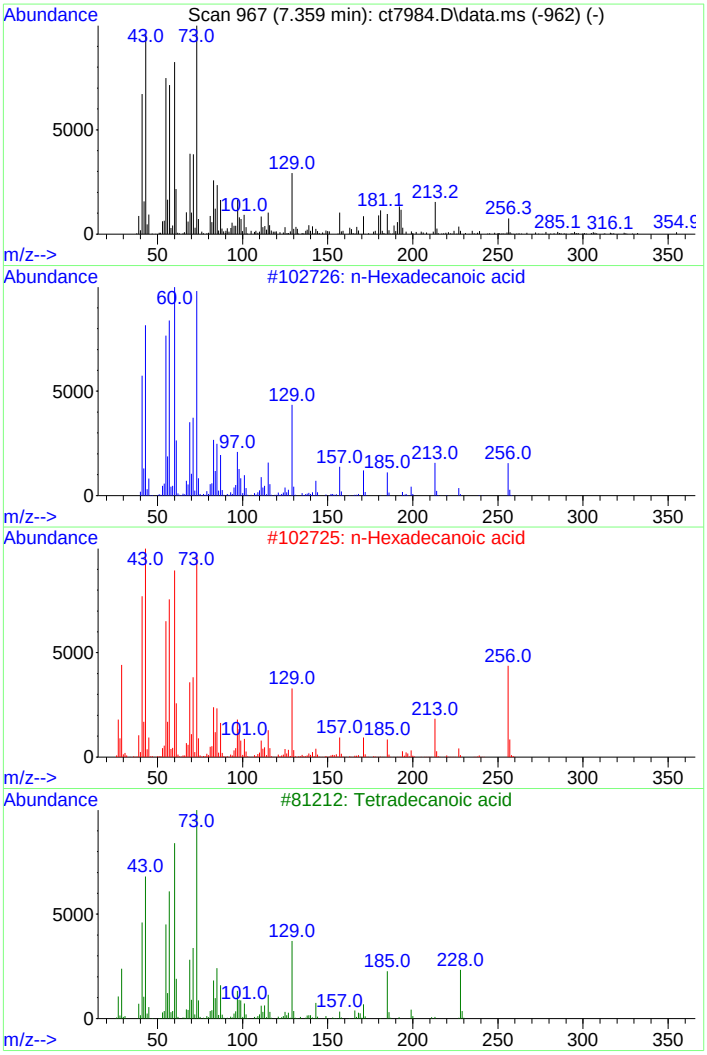
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

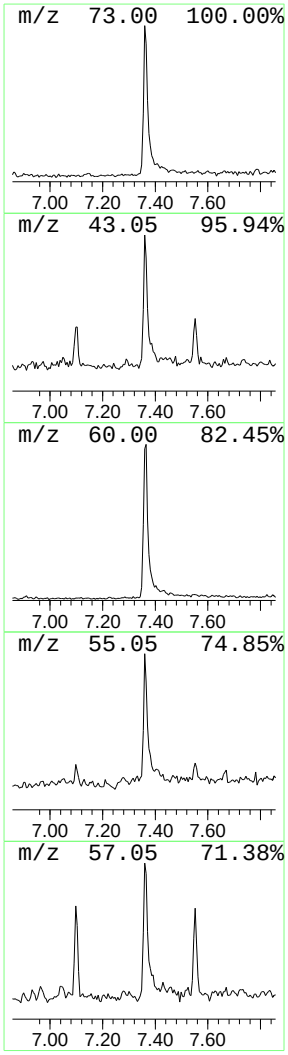
****

Peak Number 1 n-Hexadecanoic acid Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.359	5.20 ppm	437719	Phenanthrene-d10b	6.792

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	91
4	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	87
5	Tridecanoic acid	214	C13H26O2	000638-53-9	86





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7984.D
Acq On : 03 Jul 2024 04:02 pm
Operator : karimam
Sample : jd91339-4
Misc : op55800,ect375,15.3,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

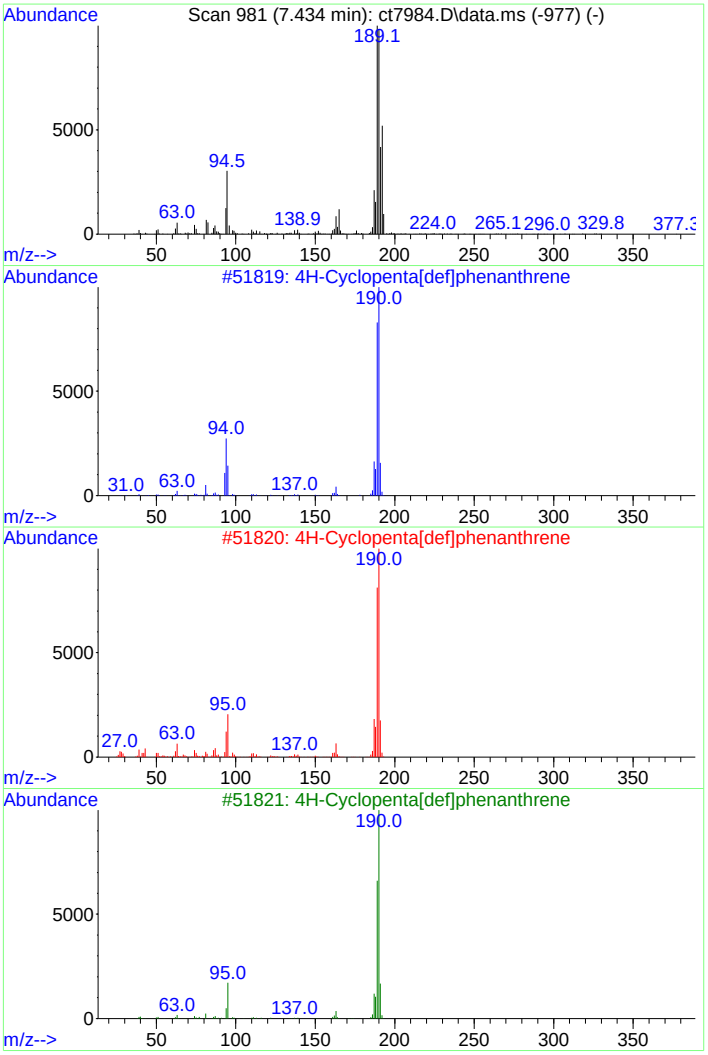
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

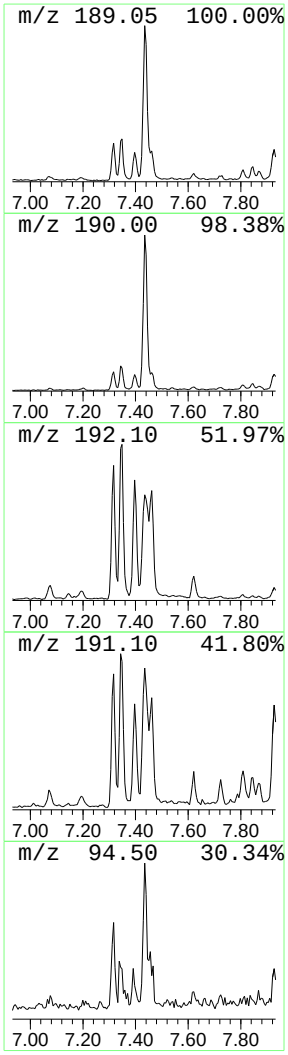
****

Peak Number 2 -Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.434	7.88 ppm	664081	Phenanthrene-d10b	6.792

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	43
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	20
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	18





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7984.D
Acq On : 03 Jul 2024 04:02 pm
Operator : karimam
Sample : jd91339-4
Misc : op55800,ect375,15.3,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

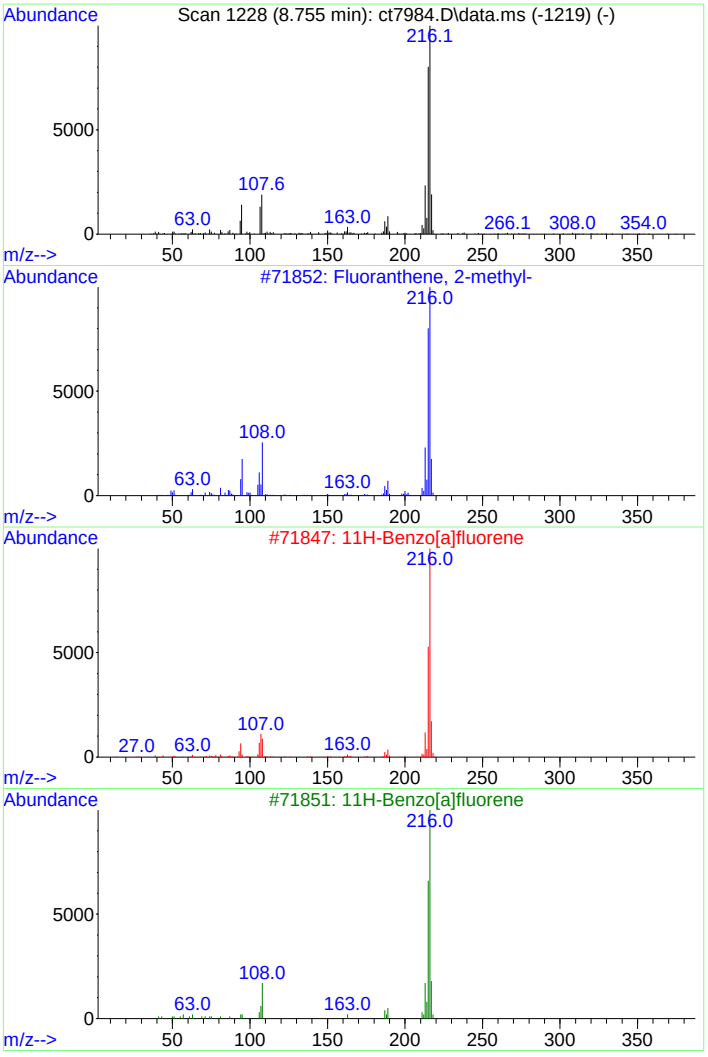
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

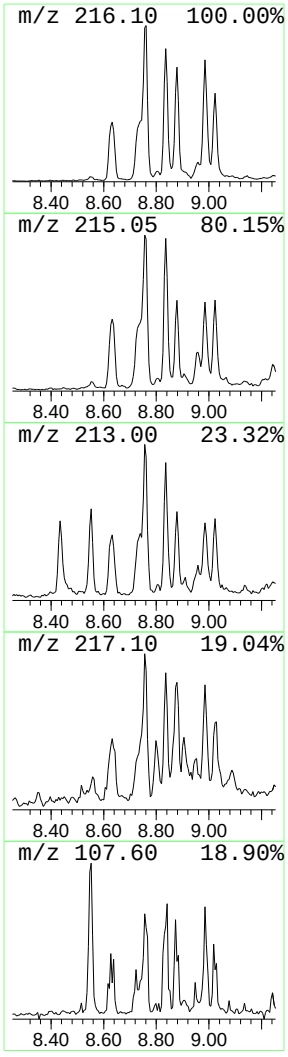
****

Peak Number 3 Fluoranthene, methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.755	5.49 ppm	626041	Chrysene-d12	9.798

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7984.D
Acq On : 03 Jul 2024 04:02 pm
Operator : karimam
Sample : jd91339-4
Misc : op55800,ect375,15.3,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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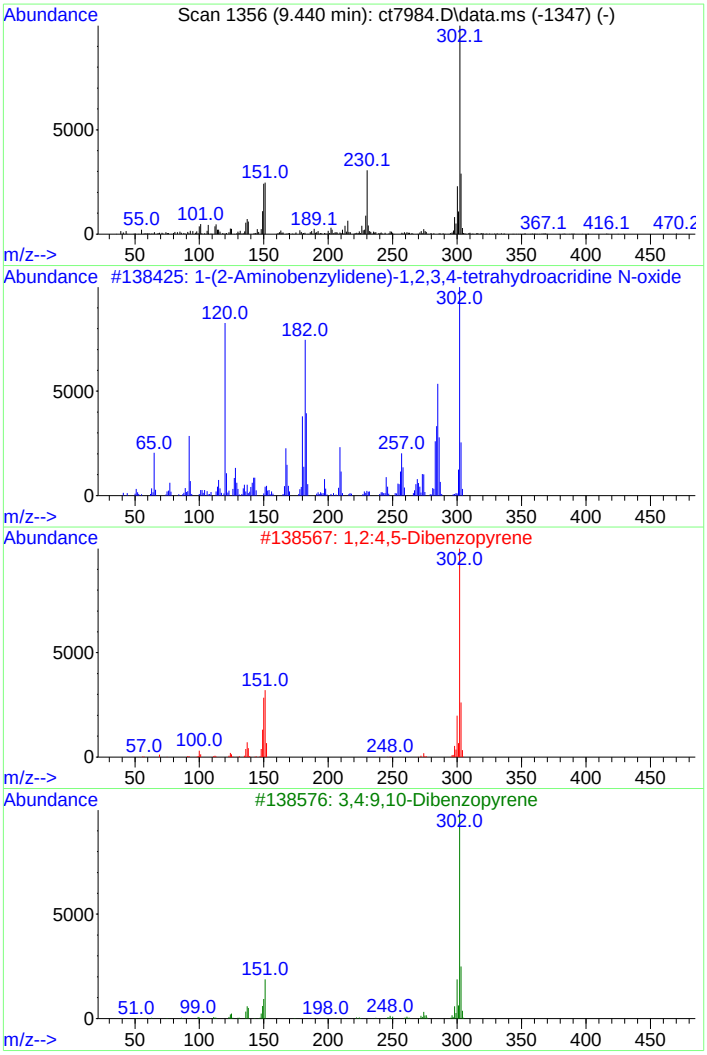
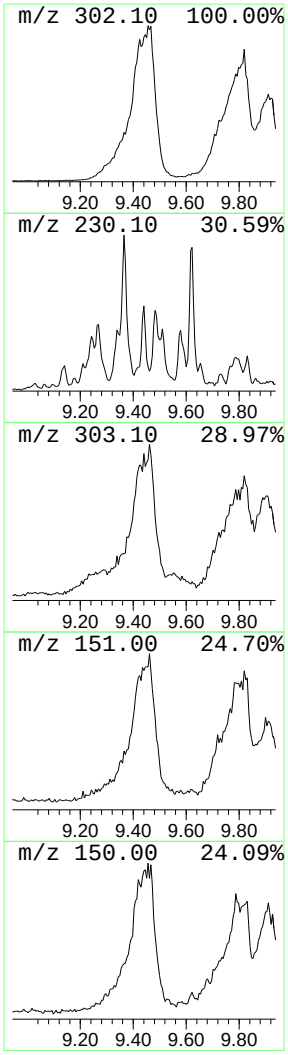
Peak Number 4 Dibenzopyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.440	13.80 ppm	1573160	Chrysene-d12	9.798

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(2-Aminobenzylidene)-1,2,3,4-t...	302	C20H18N2O	1000110-40-2	95
2	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	93
3	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	93
4	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	92
5	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	92





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7984.D
Acq On : 03 Jul 2024 04:02 pm
Operator : karimam
Sample : jd91339-4
Misc : op55800,ect375,15.3,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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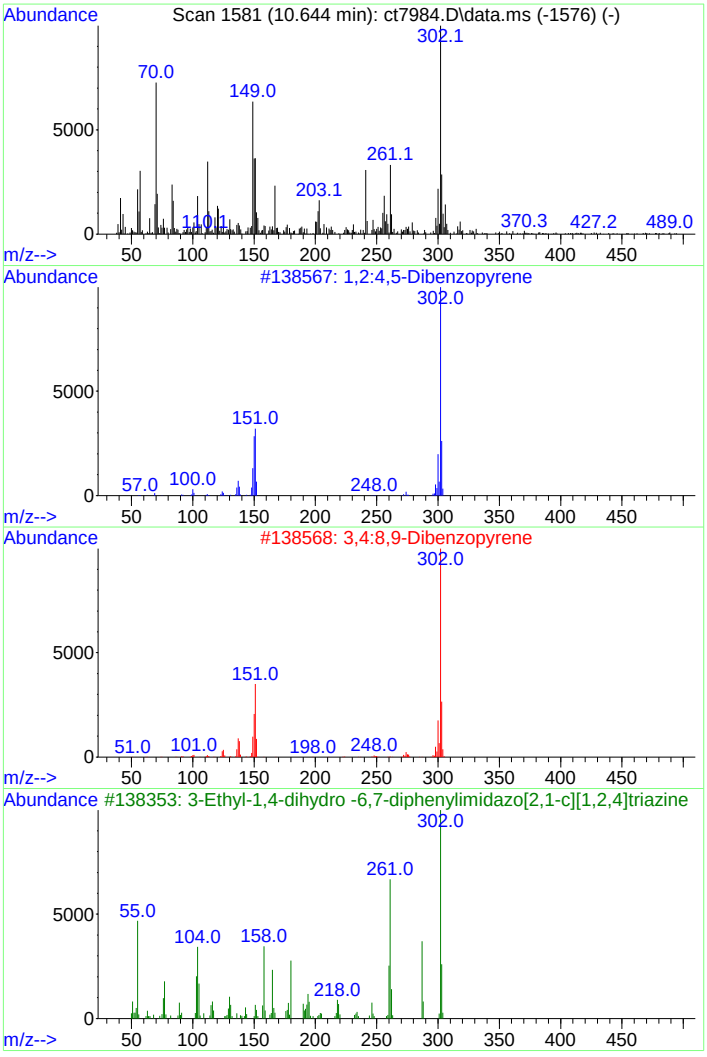
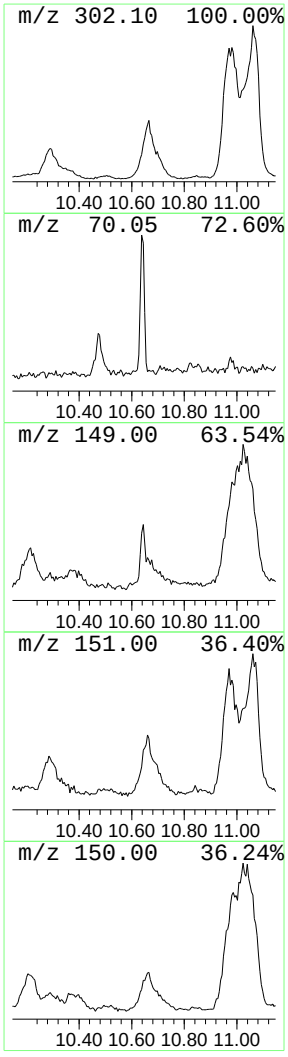
Peak Number 5 Dibenzopyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.644	8.19 ppm	721926	Perylene-d12	11.446

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	66
2	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	53
3	3-Ethyl-1,4-dihydro -6,7-dipheny...	302	C19H18N4	083657-56-1	49
4	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	46
5	[2](1,4)Naphthaleno[2](2,6)pyrid...	302	C21H22N2	1000162-52-5	46





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7984.D
Acq On : 03 Jul 2024 04:02 pm
Operator : karimam
Sample : jd91339-4
Misc : op55800,ect375,15.3,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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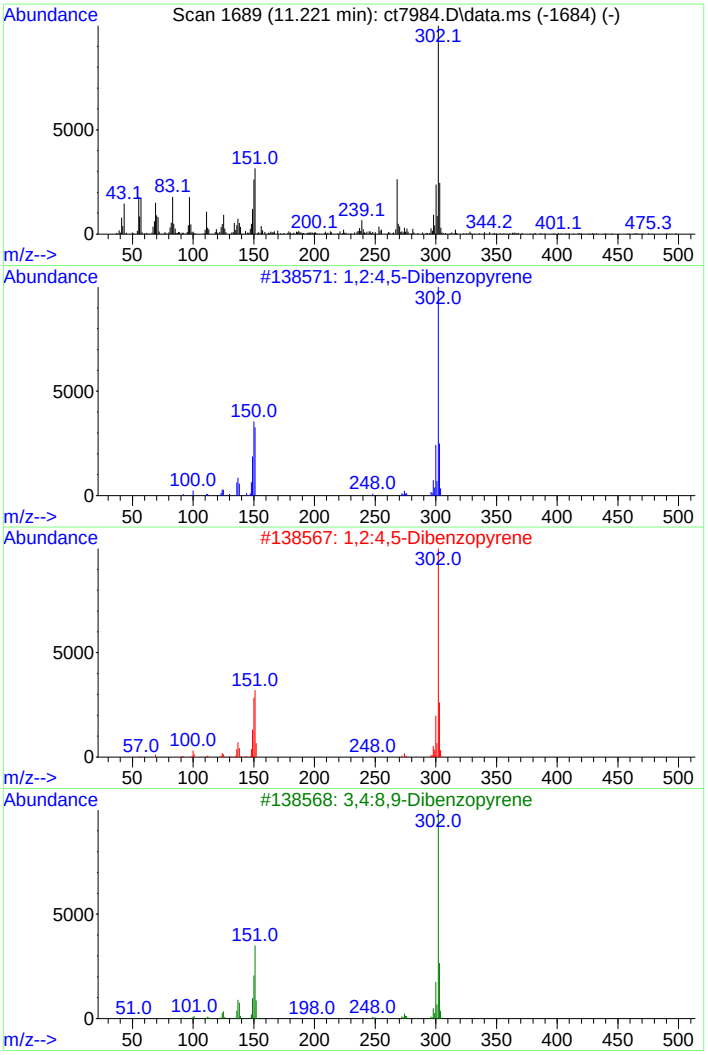
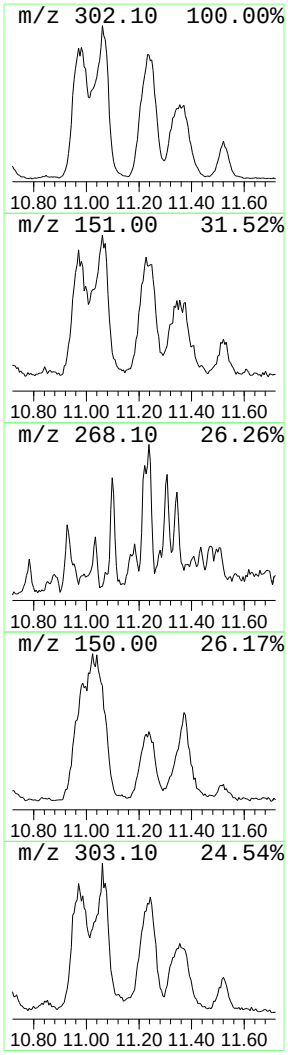
Peak Number 6 Dibenzopyrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.221	12.60 ppm	1109750	Perylene-d12	11.446

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	96
2	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	93
3	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	92
4	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	91
5	1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7984.D
Acq On : 03 Jul 2024 04:02 pm
Operator : karimam
Sample : jd91339-4
Misc : op55800,ect375,15.3,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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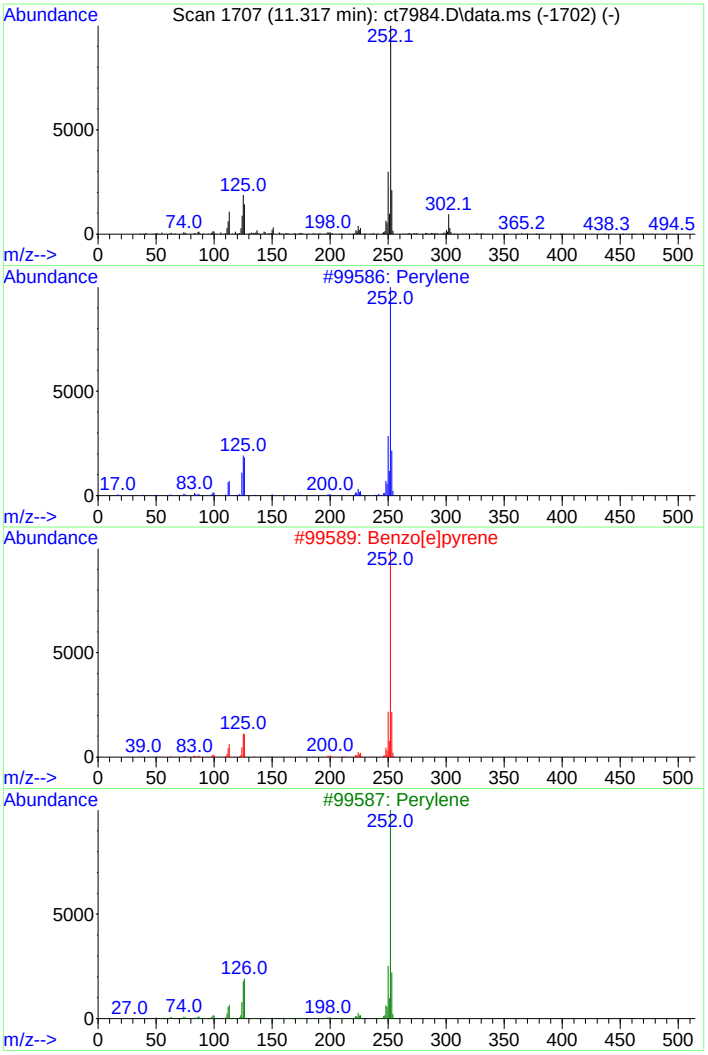
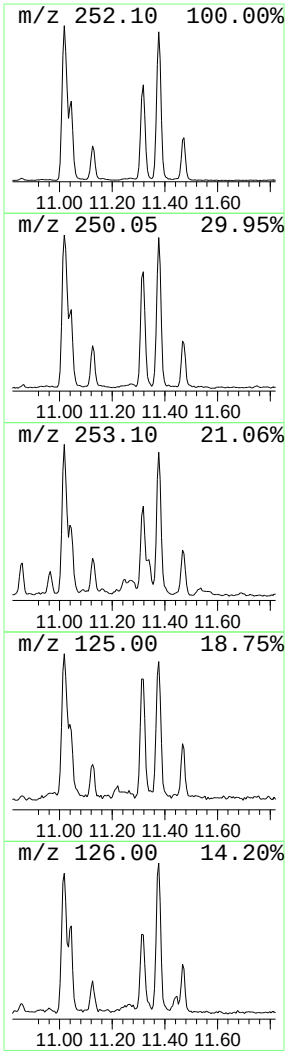
Peak Number 7 unknown PAH sunstance Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.318	11.41 ppm	1005650	Perylene-d12	11.446

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	99
2	Benzo[e]pyrene	252	C20H12	000192-97-2	97
3	Perylene	252	C20H12	000198-55-0	97
4	Benzo[e]pyrene	252	C20H12	000192-97-2	97
5	Perylene	252	C20H12	000198-55-0	93





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7984.D
Acq On : 03 Jul 2024 04:02 pm
Operator : karimam
Sample : jd91339-4
Misc : op55800,ect375,15.3,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
n-Hexadecanoic ...	7.359	5.2	ppm	437719	8	6.792	3370220	40.0
-Cyclopenta[def...	7.434	7.9	ppm	664081	8	6.792	3370220	40.0
Fluoranthene, m...	8.755	5.5	ppm	626041	9	9.798	4560580	40.0
Dibenzopyrene	9.440	13.8	ppm	1573160	9	9.798	4560580	40.0
Dibenzopyrene	10.644	8.2	ppm	721926	11	11.446	3524230	40.0
Dibenzopyrene	11.221	12.6	ppm	1109750	11	11.446	3524230	40.0
unknown PAH sun...	11.318	11.4	ppm	1005650	11	11.446	3524230	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jacky Takeuchi 07/03/24 21:22

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7985.D
Acq On : 03 Jul 2024 04:21 pm
Operator : karimam
Sample : jd91339-5 Inst : GCMS_CT
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 03 22:04:48 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

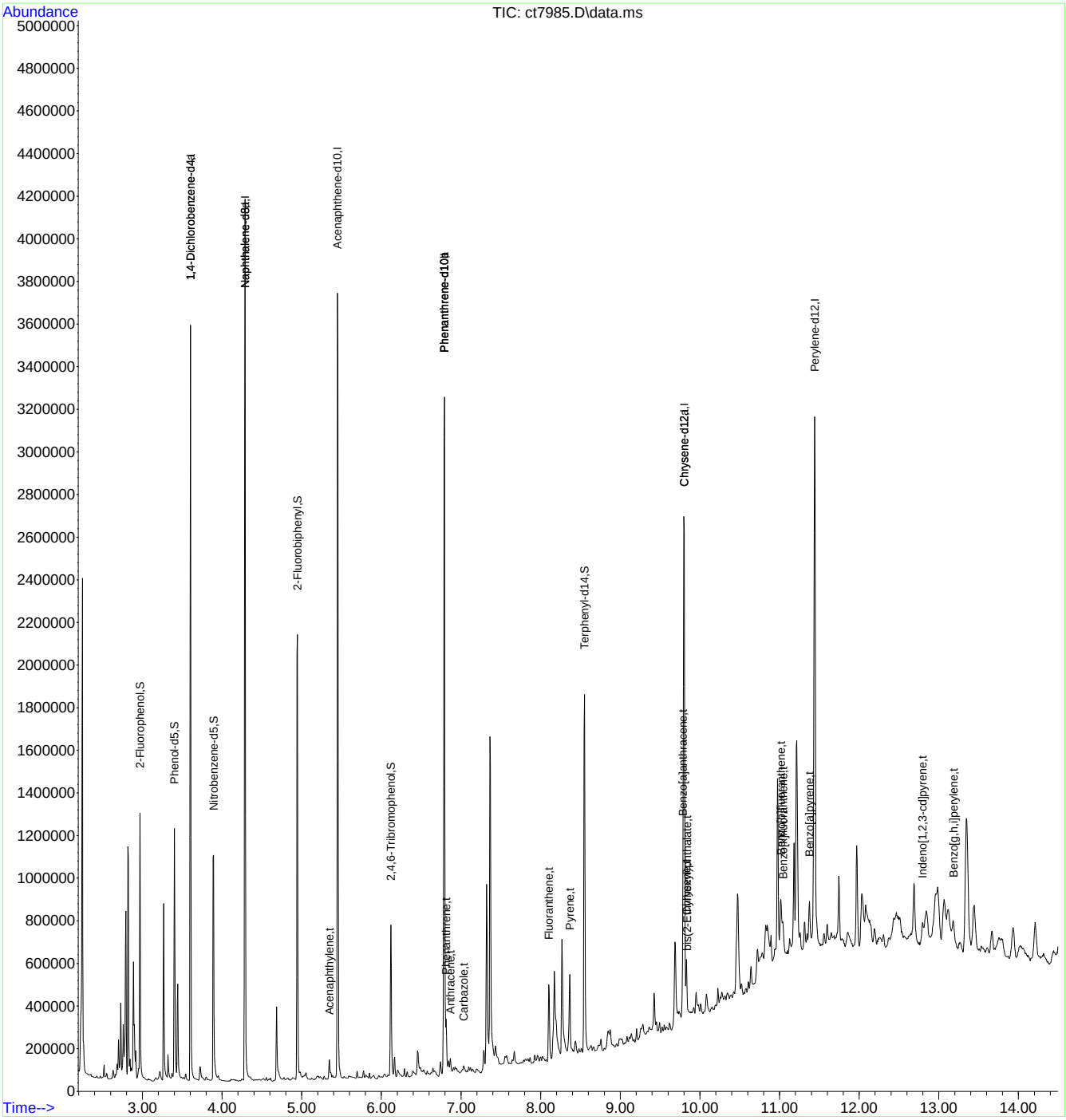
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.605	152	368622	40.00	ppm	0.00
24) Naphthalene-d8	4.289	136	1395323	40.00	ppm	0.00
46) Acenaphthene-d10	5.450	164	733002	40.00	ppm	0.00
69) Phenanthrene-d10	6.792	188	1209852	40.00	ppm	0.00
84) Chrysene-d12	9.804	240	859976	40.00	ppm	0.00
93) Perylene-d12	11.440	264	1084291	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	3.605	152	368622	40.00	ppm	0.00
105) Phenanthrene-d10a	6.792	188	1209852	40.00	ppm	0.00
107) Naphthalene-d8a	4.289	136	1395323	40.00	ppm	0.00
109) Phenanthrene-d10b	6.792	188	1209852	40.00	ppm	0.00
112) Chrysene-d12a	9.804	240	859976	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.968	112	254809	21.43	ppm	0.00
Spiked Amount 50.000			Recovery = 42.86%			
8) Phenol-d5	3.401	99	328054	22.03	ppm	0.00
Spiked Amount 50.000			Recovery = 44.06%			
25) Nitrobenzene-d5	3.893	82	323458	22.54	ppm	0.00
Spiked Amount 50.000			Recovery = 45.08%			
51) 2-Fluorobiphenyl	4.947	172	578765	25.31	ppm	0.00
Spiked Amount 50.000			Recovery = 50.62%			
74) 2,4,6-Tribromophenol	6.118	330	63553	27.65	ppm	0.00
Spiked Amount 50.000			Recovery = 55.30%			
87) Terphenyl-d14	8.552	244	546715	25.65	ppm	-0.02
Spiked Amount 50.000			Recovery = 51.30%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
56) Acenaphthylene	5.348	152	27462	0.9849	ppm	95
78) Phenanthrene	6.814	178	63385	2.0372	ppm	98
79) Anthracene	6.867	178	21874	0.7268	ppm	92
80) Carbazole	7.033	167	7049	0.2430	ppm	86
82) Fluoranthene	8.103	202	150035	5.0419	ppm	98
86) Pyrene	8.365	202	152932	5.0077	ppm	98
89) Benzo[a]anthracene	9.788	228	72147	2.6940	ppm	87
91) Chrysene	9.830	228	77151	2.9393	ppm	93
92) bis(2-Ethylhexyl)phtha...	9.841	149	6819	1.8210	ppm	98
95) Benzo[b]fluoranthene	11.018	252	102282m	3.3227	ppm	
96) Benzo[k]fluoranthene	11.045	252	35760m	1.1777	ppm	
97) Benzo[a]pyrene	11.376	252	78296	3.1191	ppm	97
98) Indeno[1,2,3-cd]pyrene	12.794	276	60252	1.8689	ppm	97
102) Benzo[g,h,i]perylene	13.184	276	61535	2.4749	ppm	95

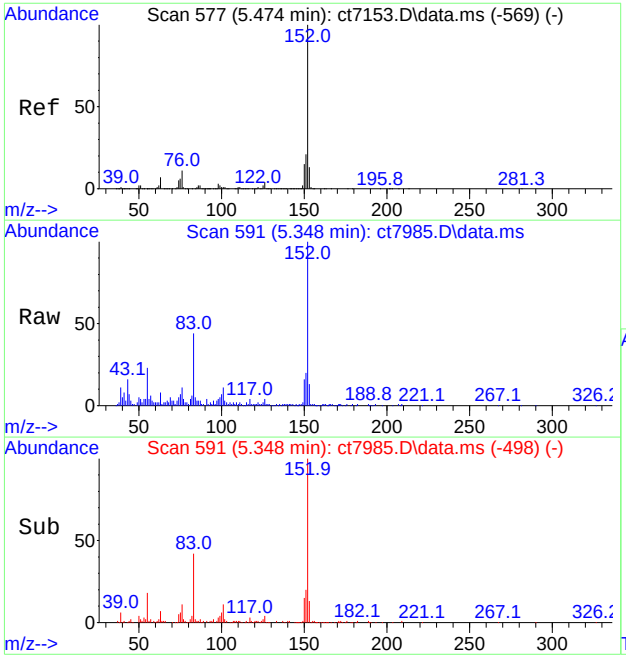
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7985.D
Acq On : 03 Jul 2024 04:21 pm
Operator : karimam
Sample : jd91339-5 Inst : GCMS_CT
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 03 22:04:48 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

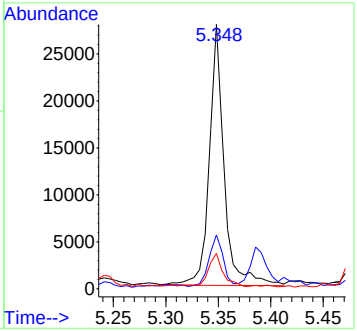


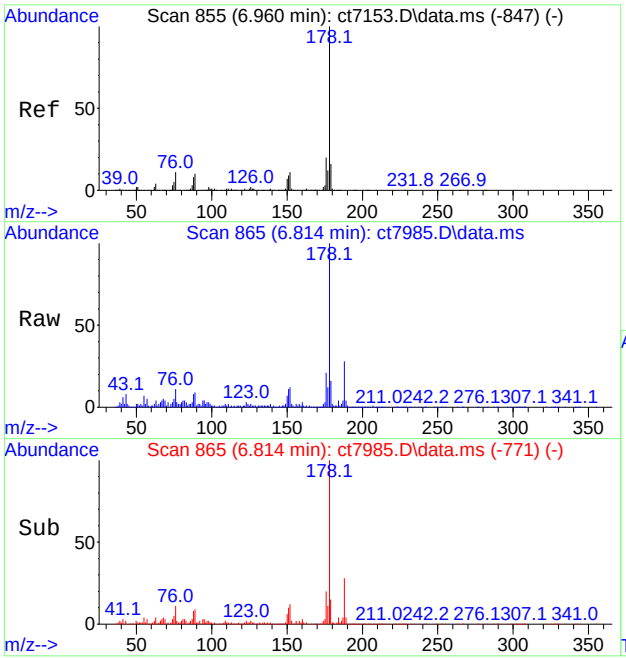


#56
Acenaphthylene
Concen: 0.9849 ppm
RT: 5.348 min Scan# 591
Delta R.T. -0.002 min
Lab File: ct7985.D
Acq: 03 Jul 2024 04:21 pm

Tgt Ion:152 Resp: 27462

Ion	Ratio	Lower	Upper
152	100		
151	18.0	0.0	50.9
153	12.6	0.0	43.3

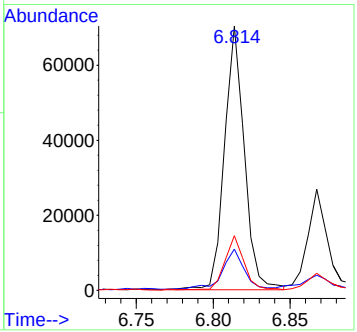


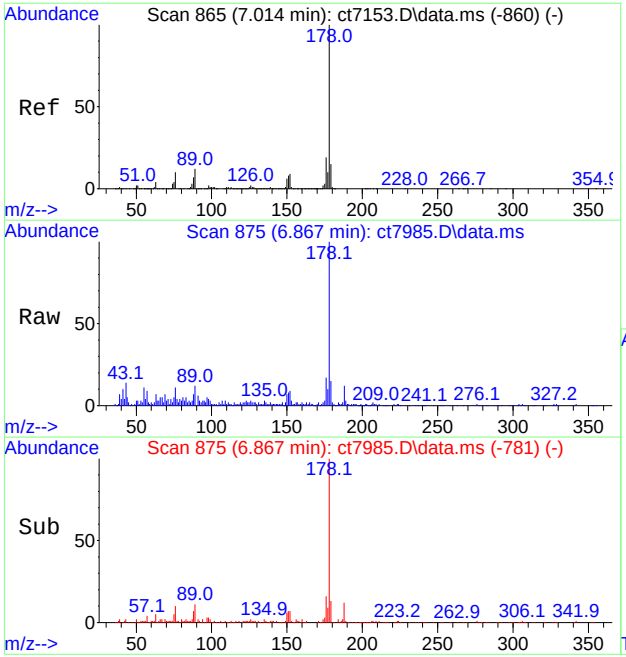


#78
Phenanthrene
Concen: 2.0372 ppm
RT: 6.814 min Scan# 865
Delta R.T. 0.000 min
Lab File: ct7985.D
Acq: 03 Jul 2024 04:21 pm

Tgt Ion:178 Resp: 63385

Ion	Ratio	Lower	Upper
178	100		
179	14.6	0.0	46.0
176	20.6	0.0	50.0

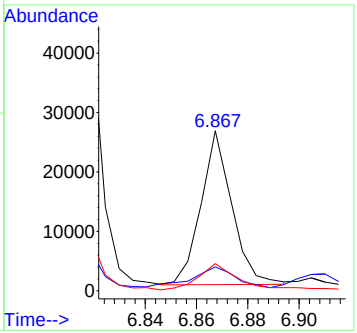


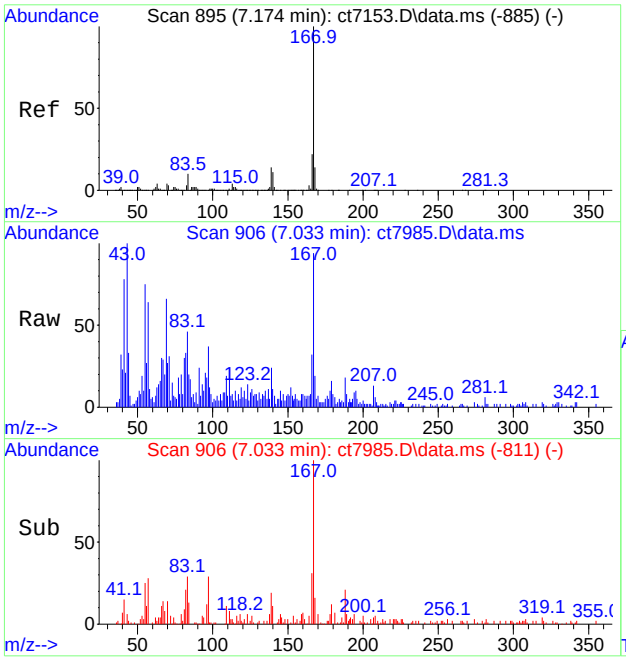


#79
Anthracene
Concen: 0.7268 ppm
RT: 6.867 min Scan# 875
Delta R.T. 0.001 min
Lab File: ct7985.D
Acq: 03 Jul 2024 04:21 pm

Tgt Ion:178 Resp: 21874

Ion	Ratio	Lower	Upper
178	100		
179	11.4	0.0	45.5
176	16.6	0.0	49.3

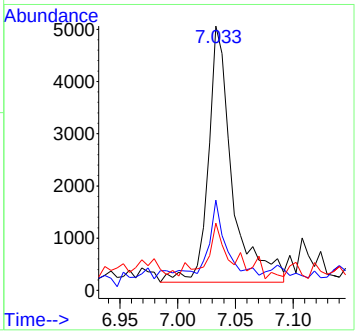


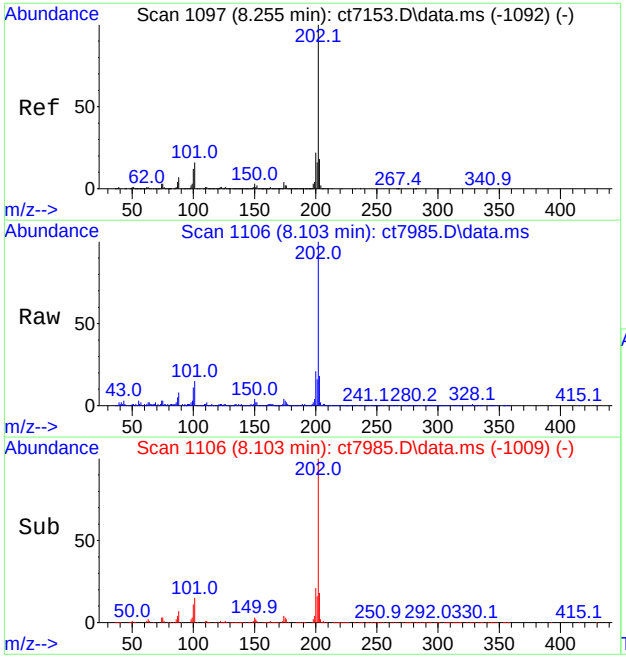


#80
Carbazole
Concen: 0.2430 ppm
RT: 7.033 min Scan# 906
Delta R.T. 0.010 min
Lab File: ct7985.D
Acq: 03 Jul 2024 04:21 pm

Tgt Ion:167 Resp: 7049

Ion	Ratio	Lower	Upper
167	100		
166	27.9	0.0	51.7
139	19.9	0.0	43.9

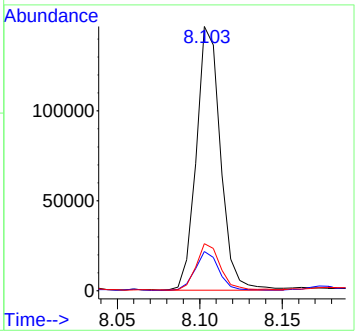


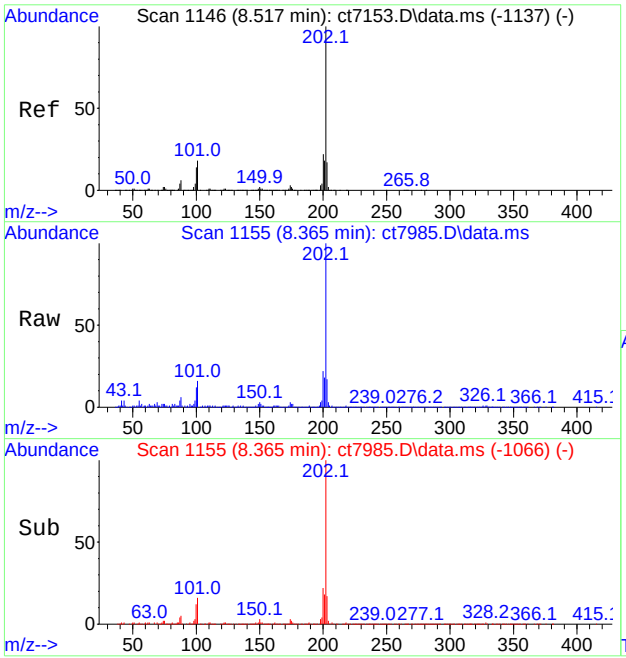


#82
Fluoranthene
Concen: 5.0419 ppm
RT: 8.103 min Scan# 1106
Delta R.T. 0.019 min
Lab File: ct7985.D
Acq: 03 Jul 2024 04:21 pm

Tgt Ion:202 Resp: 150035

Ion	Ratio	Lower	Upper
202	100		
101	14.6	0.0	45.3
203	17.5	0.0	48.1

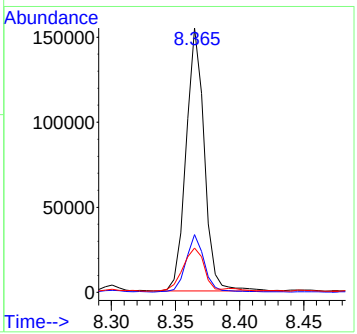


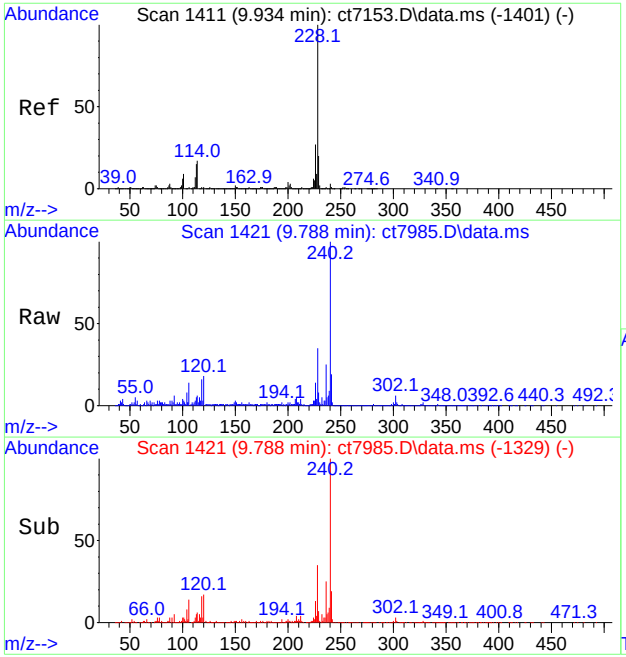


#86
Pyrene
Concen: 5.0077 ppm
RT: 8.365 min Scan# 1155
Delta R.T. -0.024 min
Lab File: ct7985.D
Acq: 03 Jul 2024 04:21 pm

Tgt Ion:202 Resp: 152932

Ion	Ratio	Lower	Upper
202	100		
200	21.7	0.0	52.3
203	16.3	0.0	47.9

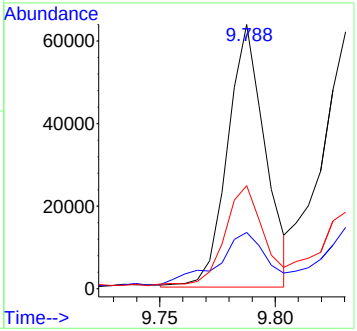


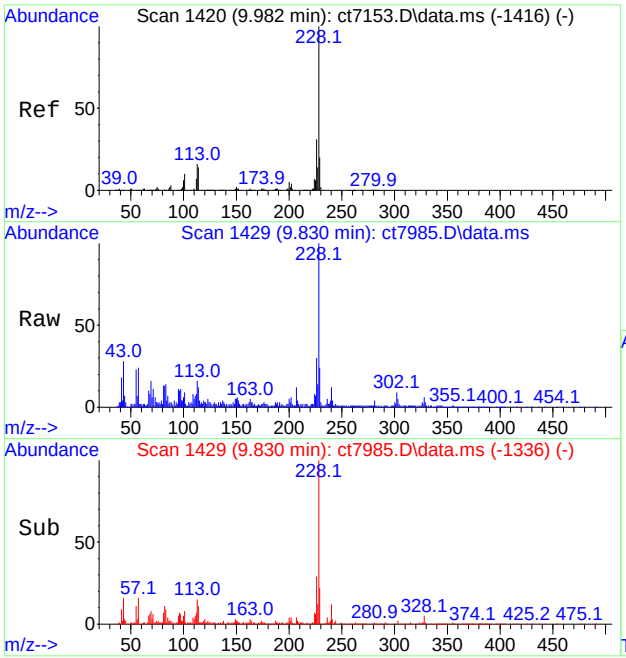


#89
Benzo[a]anthracene
Concen: 2.6940 ppm
RT: 9.788 min Scan# 1421
Delta R.T. -0.005 min
Lab File: ct7985.D
Acq: 03 Jul 2024 04:21 pm

Tgt Ion:228 Resp: 72147

Ion	Ratio	Lower	Upper
228	100		
229	19.6	0.0	50.0
226	38.2	0.0	57.3

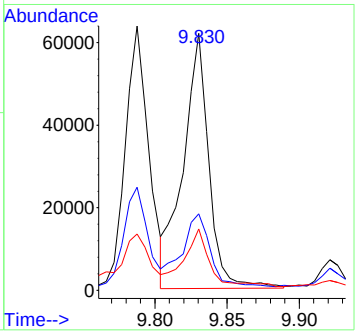


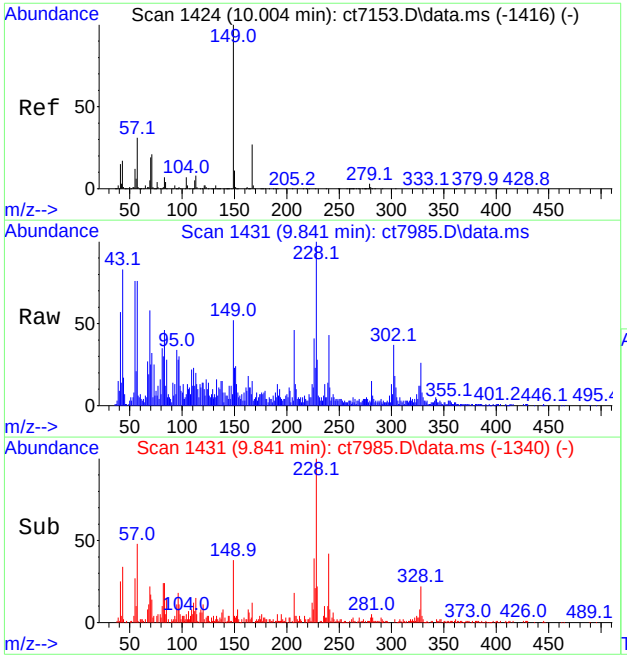


#91
Chrysene
Concen: 2.9393 ppm
RT: 9.830 min Scan# 1429
Delta R.T. -0.005 min
Lab File: ct7985.D
Acq: 03 Jul 2024 04:21 pm

Tgt Ion:228 Resp: 77151

Ion	Ratio	Lower	Upper
228	100		
226	27.8	1.8	61.8
229	22.6	0.0	49.9

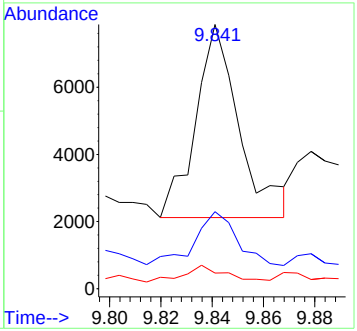


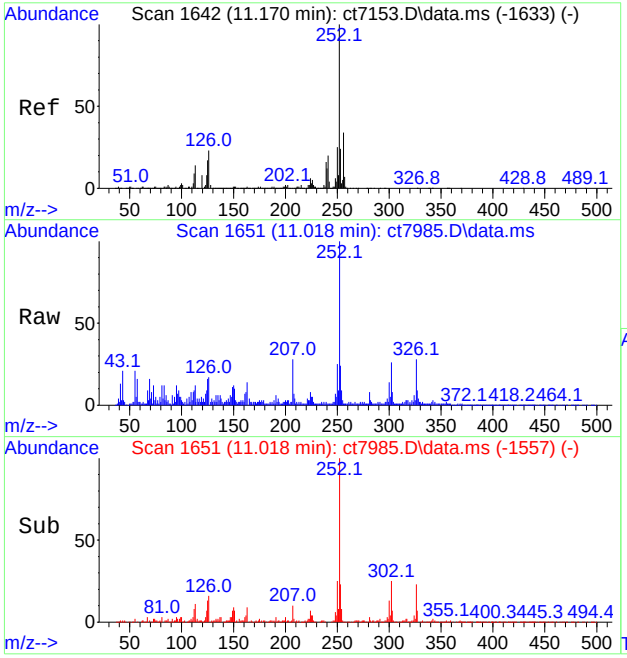


#92
bis(2-Ethylhexyl)phthalate
Concen: 1.8210 ppm
RT: 9.841 min Scan# 1431
Delta R.T. -0.015 min
Lab File: ct7985.D
Acq: 03 Jul 2024 04:21 pm

Tgt Ion:149 Resp: 6819

Ion	Ratio	Lower	Upper
149	100		
167	27.7	0.0	57.0
279	1.0	0.0	33.4

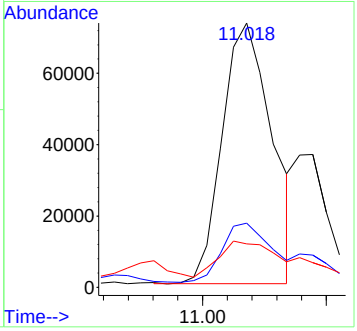


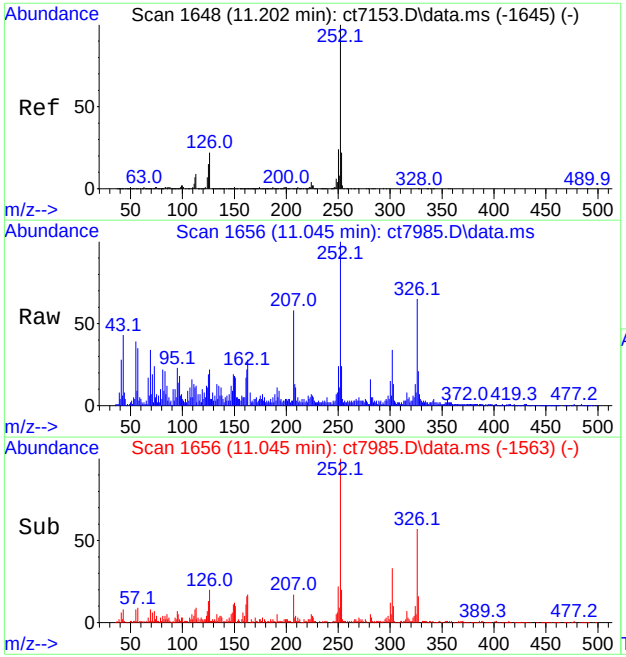


#95
Benzo[b]fluoranthene
Concen: 3.3227 ppm m
RT: 11.018 min Scan# 1651
Delta R.T. 0.000 min
Lab File: ct7985.D
Acq: 03 Jul 2024 04:21 pm

Tgt Ion:252 Resp: 102282

Ion	Ratio	Lower	Upper
252	100		
253	24.2	0.0	53.9
125	16.4	0.0	45.9

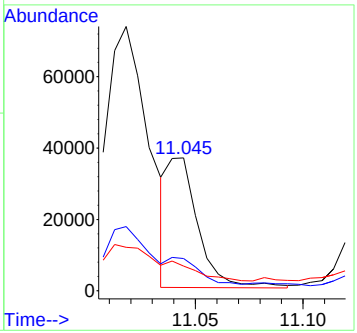


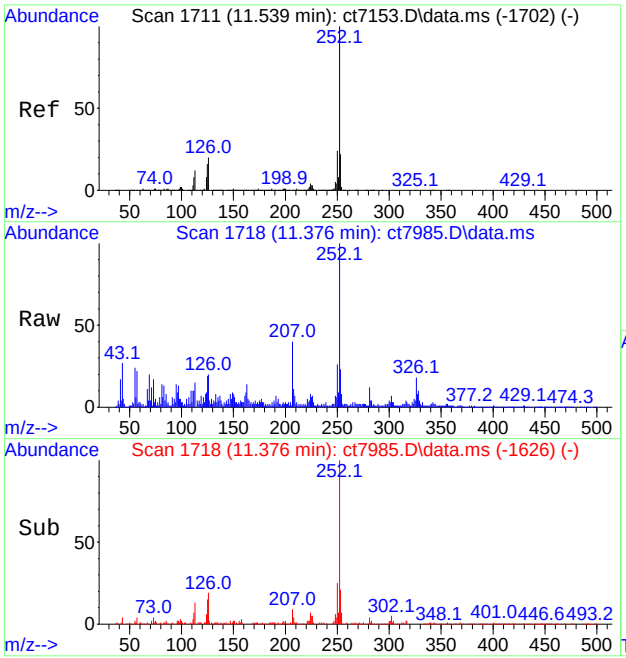


#96
Benzo[k]fluoranthene
Concen: 1.1777 ppm m
RT: 11.045 min Scan# 1656
Delta R.T. -0.005 min
Lab File: ct7985.D
Acq: 03 Jul 2024 04:21 pm

Tgt Ion:252 Resp: 35760

Ion	Ratio	Lower	Upper
252	100		
253	24.2	0.0	51.8
125	18.7	0.0	43.8

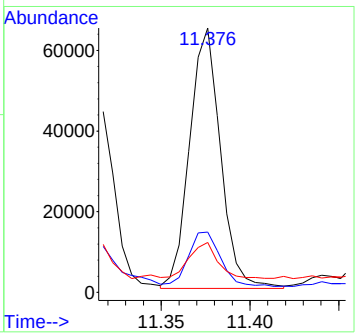


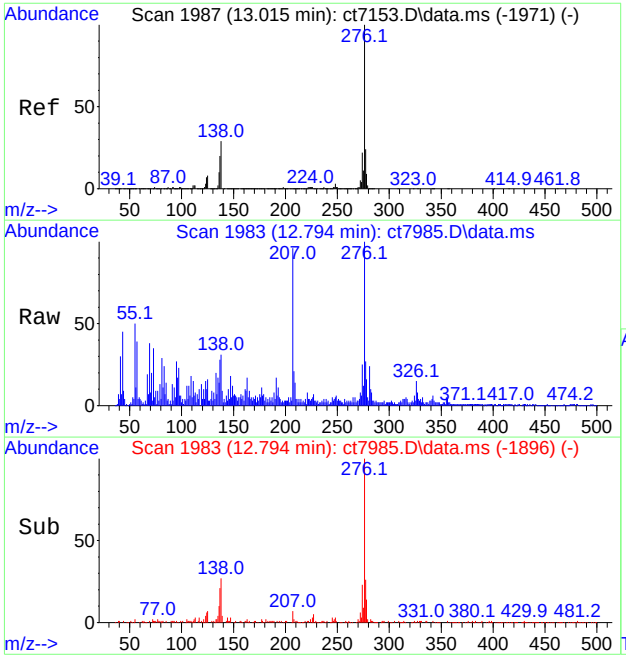


#97
Benzo[a]pyrene
Concen: 3.1191 ppm
RT: 11.376 min Scan# 1718
Delta R.T. -0.006 min
Lab File: ct7985.D
Acq: 03 Jul 2024 04:21 pm

Tgt Ion:252 Resp: 78296

Ion	Ratio	Lower	Upper
252	100		
253	20.6	0.0	51.9
125	13.4	0.0	44.9

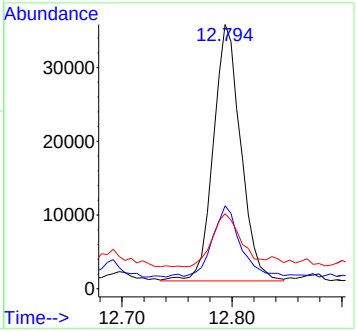


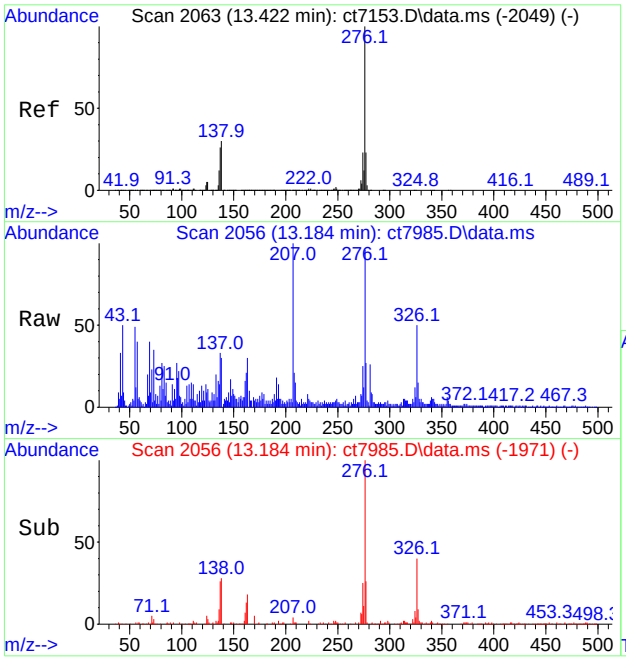


#98
Indeno[1,2,3-cd]pyrene
Concen: 1.8689 ppm
RT: 12.794 min Scan# 1983
Delta R.T. -0.037 min
Lab File: ct7985.D
Acq: 03 Jul 2024 04:21 pm

Tgt Ion:276 Resp: 60252

Ion	Ratio	Lower	Upper
276	100		
138	27.4	0.0	59.6
137	19.9	0.0	50.8

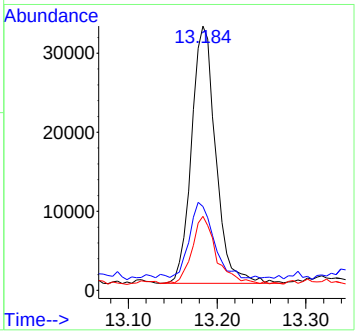




#102
Benzo[g,h,i]perylene
Concen: 2.4749 ppm
RT: 13.184 min Scan# 2056
Delta R.T. -0.048 min
Lab File: ct7985.D
Acq: 03 Jul 2024 04:21 pm

Tgt Ion:276 Resp: 61535

Ion	Ratio	Lower	Upper
276	100		
138	27.2	0.0	59.8
277	26.3	0.0	53.4



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7985.D
Acq On : 03 Jul 2024 04:21 pm
Operator : karimam
Sample : jd91339-5
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: ct7985.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.289	389	393	413	rVV	4138437	3006076	89.53%	7.439%
2	4.519	430	436	440	rVV9	9960	16690	0.50%	0.041%
3	4.557	440	443	446	rVB2	15405	13160	0.39%	0.033%
4	4.685	458	467	481	rBV	349728	359103	10.69%	0.889%
5	4.776	481	484	488	rVV4	12406	14562	0.43%	0.036%
6	4.824	488	493	500	rVB4	11037	16375	0.49%	0.041%
7	4.888	500	505	511	rBV9	10729	25263	0.75%	0.063%
8	4.947	511	516	528	rVV	2089388	1791238	53.35%	4.433%
9	5.054	528	536	546	rVV6	32842	75780	2.26%	0.188%
10	5.209	555	565	567	rBV10	18226	40814	1.22%	0.101%
11	5.236	567	570	576	rVB8	13599	22179	0.66%	0.055%
12	5.284	576	579	582	rBV4	16925	17268	0.51%	0.043%
13	5.348	587	591	597	rBV2	92668	113197	3.37%	0.280%
14	5.386	597	598	602	rVV	13364	13583	0.40%	0.034%
15	5.450	604	610	623	rVB	3684125	3255163	96.94%	8.055%
16	5.594	634	637	653	rVB9	12690	38158	1.14%	0.094%
17	5.696	653	656	659	rBV2	34326	26284	0.78%	0.065%
18	5.776	667	671	674	rBV2	33947	28219	0.84%	0.070%
19	5.808	674	677	683	rVB4	14883	20613	0.61%	0.051%
20	5.851	683	685	688	rVB2	26648	17132	0.51%	0.042%
21	5.904	688	695	701	rVB4	17281	35626	1.06%	0.088%
22	5.969	703	707	711	rBV5	15282	22867	0.68%	0.057%
23	6.038	716	720	725	rBV6	15962	26450	0.79%	0.065%
24	6.118	731	735	741	rBV2	708406	705408	21.01%	1.746%
25	6.167	741	744	748	rVB	92604	81848	2.44%	0.203%
26	6.204	748	751	762	rBV5	31997	59985	1.79%	0.148%
27	6.290	762	767	771	rVB3	38279	33363	0.99%	0.083%
28	6.322	771	773	779	rVB4	25569	23922	0.71%	0.059%
29	6.391	780	786	794	rBV9	27416	67250	2.00%	0.166%
30	6.455	794	798	803	rBV3	113893	165368	4.92%	0.409%
31	6.530	810	812	818	rVB5	22853	30310	0.90%	0.075%
32	6.578	818	821	827	rBV5	17455	18945	0.56%	0.047%
33	6.648	827	834	836	rBV4	30135	37450	1.12%	0.093%
34	6.744	847	852	855	rBV3	69148	83855	2.50%	0.208%
35	6.792	855	861	869	rVV	3184276	3357781	100.00%	8.309%
36	6.846	869	871	873	rVV	64161	63295	1.89%	0.157%
37	6.867	873	875	879	rVV	74192	73831	2.20%	0.183%
38	6.905	879	882	884	rVV4	29457	35268	1.05%	0.087%
39	6.926	885	886	897	rVB4	29855	51927	1.55%	0.128%
40	7.033	898	906	912	rBV7	32871	61953	1.85%	0.153%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7985.D
Acq On : 03 Jul 2024 04:21 pm
Operator : karimam
Sample : jd91339-5
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	7.097	912	918	920	rBV5	25490	27486	0.82%	0.068%
42	7.119	920	922	925	rVB2	18683	14601	0.43%	0.036%
43	7.145	925	927	933	rVB5	16527	18142	0.54%	0.045%
44	7.194	933	936	945	rVB9	18167	35286	1.05%	0.087%
45	7.284	947	953	956	rBV	106693	134478	4.00%	0.333%
46	7.322	956	960	965	rVV	857641	916627	27.30%	2.268%
47	7.365	965	968	978	rVV	1544813	1757035	52.33%	4.348%
48	7.434	978	981	994	rVB3	87090	171667	5.11%	0.425%
49	7.573	1000	1007	1012	rVB7	37485	83104	2.47%	0.206%
50	7.643	1017	1020	1022	rVV	19919	22171	0.66%	0.055%
51	7.670	1022	1025	1034	rVB5	59966	70855	2.11%	0.175%
52	7.809	1049	1051	1054	rVV4	11865	14768	0.44%	0.037%
53	7.867	1060	1062	1066	rVB5	27152	23882	0.71%	0.059%
54	7.926	1070	1073	1076	rBV2	36855	40085	1.19%	0.099%
55	7.958	1076	1079	1084	rVB7	30819	36832	1.10%	0.091%
56	7.996	1084	1086	1089	rBV3	20557	20230	0.60%	0.050%
57	8.023	1089	1091	1098	rVB4	22216	31231	0.93%	0.077%
58	8.103	1102	1106	1112	rBV	363148	389333	11.59%	0.963%
59	8.172	1112	1119	1133	rBV3	410887	854161	25.44%	2.114%
60	8.269	1133	1137	1149	rVV	544997	705013	21.00%	1.745%
61	8.365	1149	1155	1164	rVV	372143	468558	13.95%	1.159%
62	8.440	1165	1169	1174	rVB4	57561	79625	2.37%	0.197%
63	8.483	1174	1177	1179	rBV3	21957	20043	0.60%	0.050%
64	8.552	1185	1190	1199	rBV	1681205	1723021	51.31%	4.264%
65	8.755	1226	1228	1234	rVB	54930	55396	1.65%	0.137%
66	8.846	1240	1245	1248	rBV3	81815	140378	4.18%	0.347%
67	8.991	1269	1272	1273	rBV	34233	36708	1.09%	0.091%
68	9.082	1287	1289	1292	rBV4	31084	28760	0.86%	0.071%
69	9.205	1309	1312	1316	rBV	60708	58904	1.75%	0.146%
70	9.285	1318	1327	1333	rVV5	65972	178926	5.33%	0.443%
71	9.424	1349	1353	1357	rBV4	160372	154854	4.61%	0.383%
72	9.493	1363	1366	1369	rVB3	49293	49319	1.47%	0.122%
73	9.616	1387	1389	1394	rVB4	33716	35615	1.06%	0.088%
74	9.686	1397	1402	1408	rBV	396167	584619	17.41%	1.447%
75	9.798	1417	1423	1427	rBV	2345348	2811053	83.72%	6.956%
76	9.953	1449	1452	1460	rBV6	99009	157180	4.68%	0.389%
77	10.082	1473	1476	1484	rVB4	84725	117696	3.51%	0.291%
78	10.226	1500	1503	1506	rBV4	81924	77970	2.32%	0.193%
79	10.472	1542	1549	1556	rBV2	470307	883069	26.30%	2.185%
80	10.643	1577	1581	1585	rBV3	104132	125396	3.73%	0.310%
81	10.724	1591	1596	1599	rBV	156318	257422	7.67%	0.637%
82	10.825	1611	1615	1618	rBV5	158152	253538	7.55%	0.627%
83	10.975	1639	1643	1647	rBV	802710	780918	23.26%	1.932%
84	11.018	1647	1651	1663	rVB2	253094	564433	16.81%	1.397%
85	11.184	1677	1682	1684	rBV	477154	517605	15.42%	1.281%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7985.D
Acq On : 03 Jul 2024 04:21 pm
Operator : karimam
Sample : jd91339-5
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	11.216	1684	1688	1694	rVB	931799	1315311	39.17%	3.255%
87	11.317	1703	1707	1710	rBV	118469	138114	4.11%	0.342%
88	11.376	1714	1718	1722	rVV	212784	275000	8.19%	0.681%
89	11.440	1724	1730	1744	rVB	2482082	3236742	96.40%	8.009%
90	11.601	1757	1760	1764	rBV5	83109	93258	2.78%	0.231%
91	11.745	1783	1787	1793	rVB	300661	344975	10.27%	0.854%
92	11.970	1824	1829	1835	rVB	472863	610960	18.20%	1.512%
93	12.034	1836	1841	1847	rBV5	238585	547200	16.30%	1.354%
94	12.687	1959	1963	1975	rVB	285663	498129	14.84%	1.233%
95	12.986	2010	2019	2027	rVB6	247673	845634	25.18%	2.093%
96	13.066	2029	2034	2040	rBV7	156165	348938	10.39%	0.863%
97	13.345	2079	2086	2097	rBV2	625841	1546281	46.05%	3.826%
98	13.446	2099	2105	2115	rVB8	212880	494790	14.74%	1.224%
99	13.933	2192	2196	2203	rVB6	140580	281371	8.38%	0.696%
100	14.211	2243	2248	2260	rVB6	169346	359081	10.69%	0.889%

Sum of corrected areas: 40411336

LSC Report - Integrated Chromatogram

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Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7985.D
Acq On    : 03 Jul 2024  04:21 pm
Operator  : karimam
Sample    : jd91339-5
Misc      : op55800,ect375,30.6,,,1,1
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title  : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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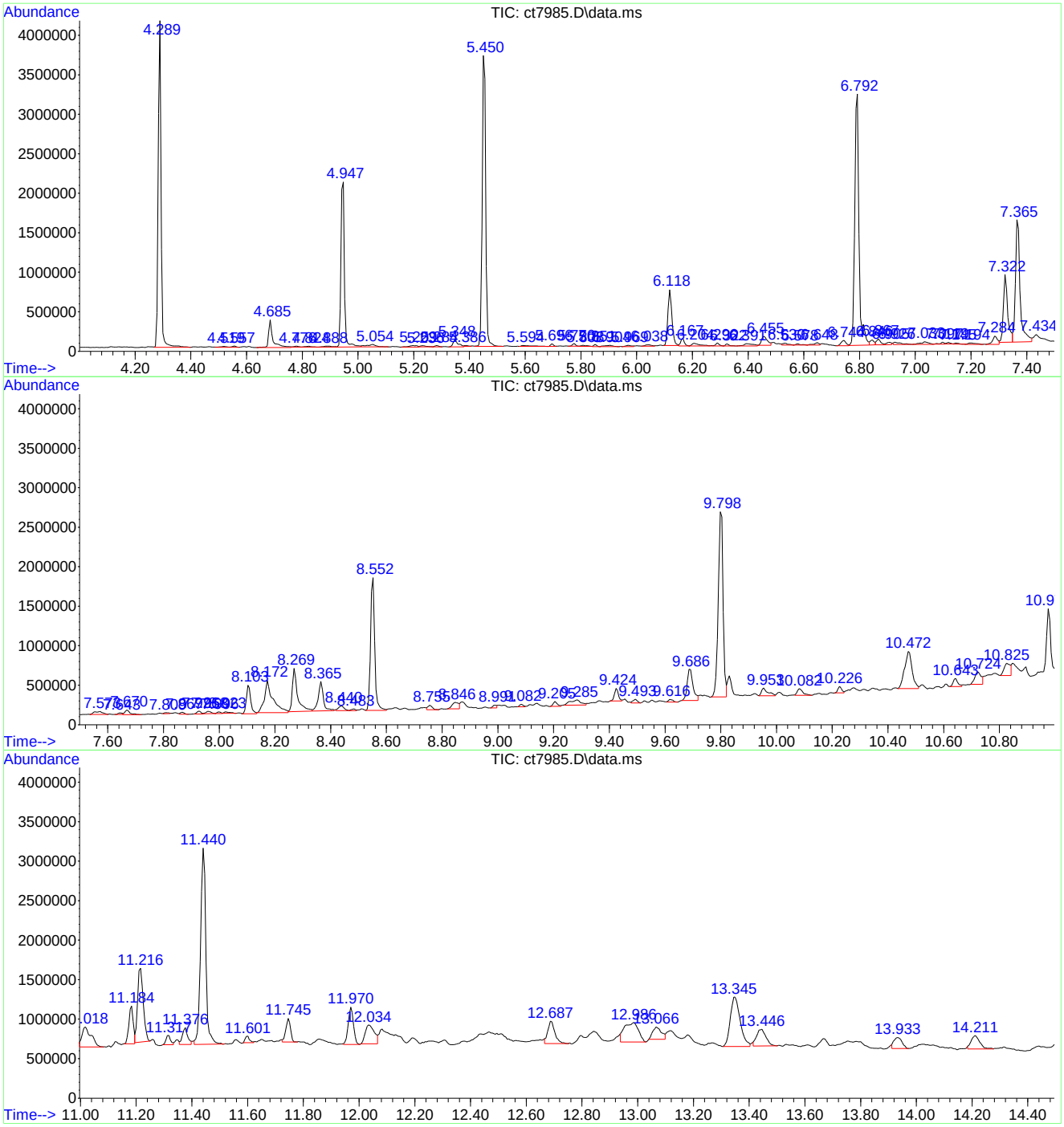

Library Search Compound Report

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Misc : op55800,ect375,30.6,,,1,1
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TIC Library : C:\Database\NIST08.L
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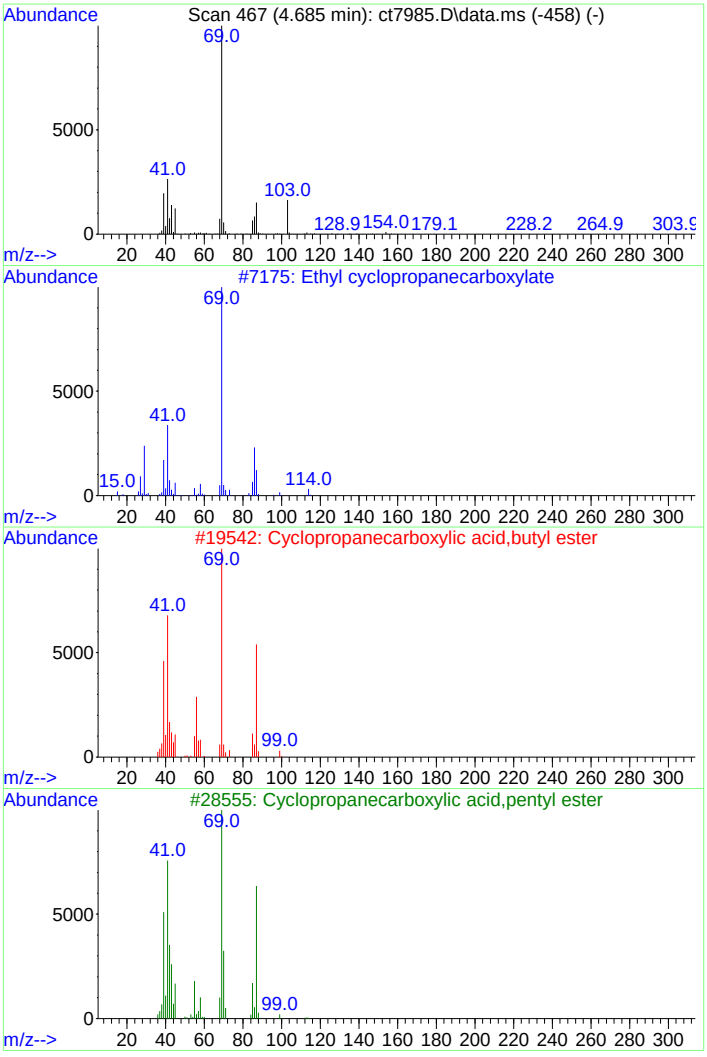
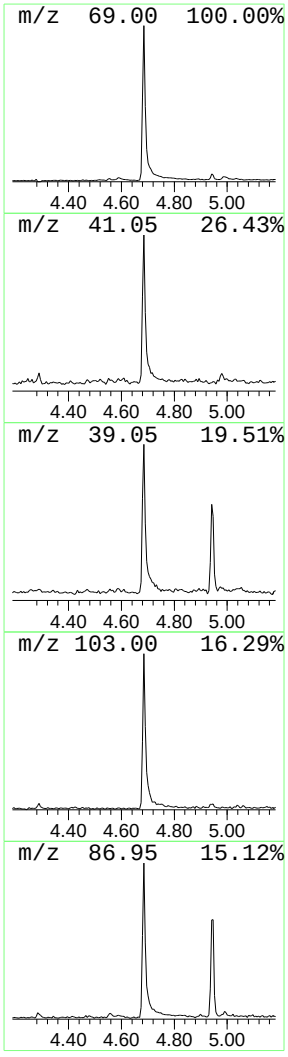
****

Peak Number 1 unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.685	4.78 ppm	359103	Naphthalene-d8a	4.289

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethyl cyclopropanecarboxylate	114	C6H10O2	004606-07-9	40
2	Cyclopropanecarboxylic acid,buty...	142	C8H14O2	054947-39-6	9
3	Cyclopropanecarboxylic acid,pent...	156	C9H16O2	060128-02-1	9
4	Cyclopropanecarboxylic acid,isob...	142	C8H14O2	064969-79-5	9
5	1,6-Hexanediamine	116	C6H16N2	000124-09-4	9





Library Search Compound Report

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Operator : karimam
Sample : jd91339-5
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

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TIC Integration Parameters: lscint.p

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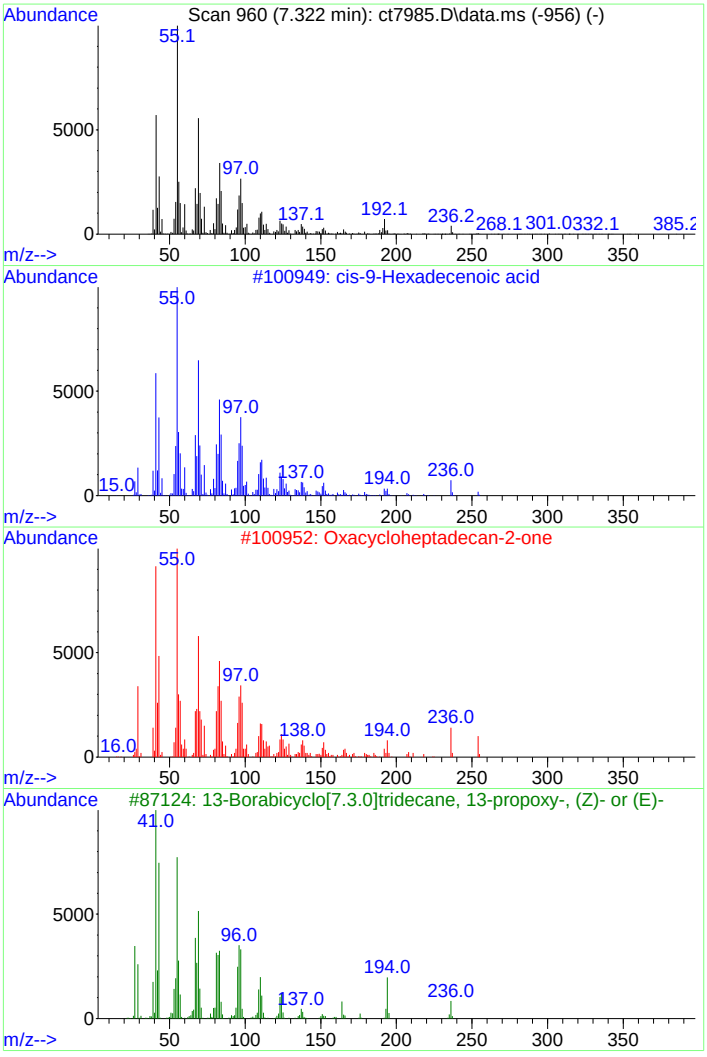
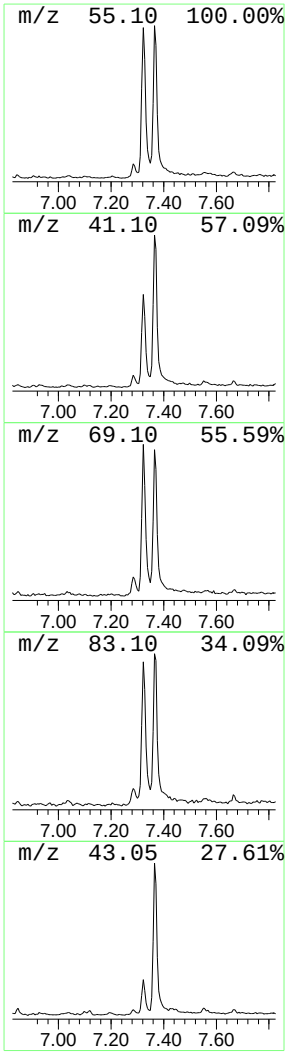
Peak Number 2 Hexadecenoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.322	10.92 ppm	916627	Phenanthrene-d10b	6.792

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	cis-9-Hexadecenoic acid	254	C16H30O2	1000333-19-5	91
2	Oxacycloheptadecan-2-one	254	C16H30O2	000109-29-5	91
3	13-Borabicyclo[7.3.0]tridecane, ...	236	C15H29BO	1000156-41-7	86
4	9-Hexadecenoic acid	254	C16H30O2	002091-29-4	83
5	E-11-Hexadecenoic acid, ethyl ester	282	C18H34O2	1000245-71-9	80





Library Search Compound Report

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Sample : jd91339-5
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

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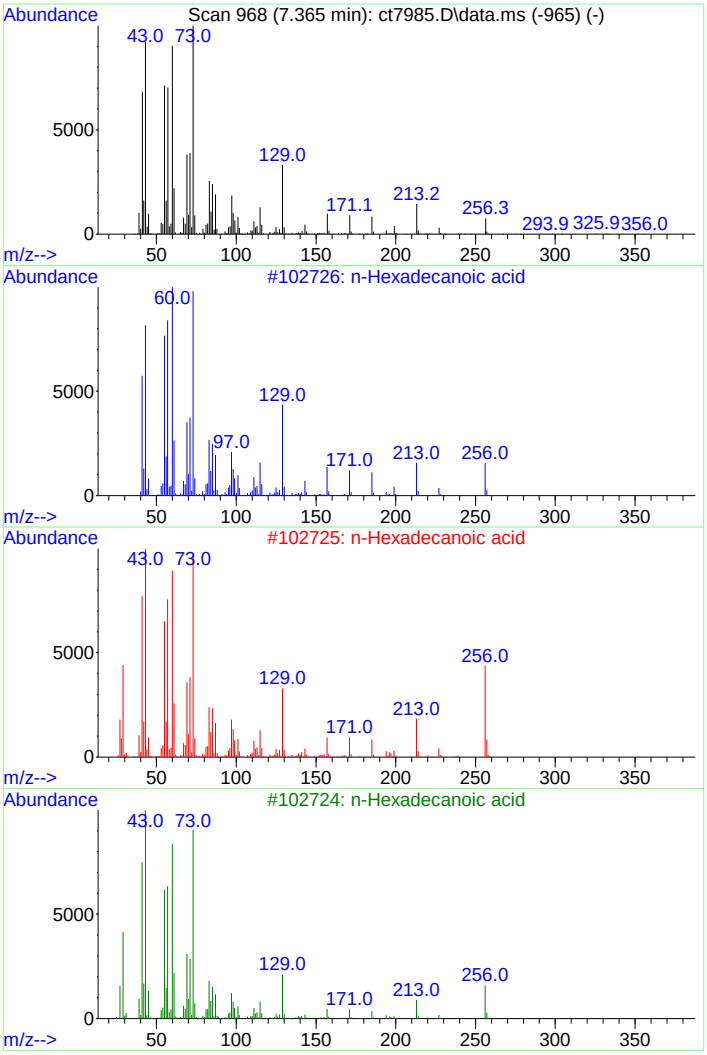
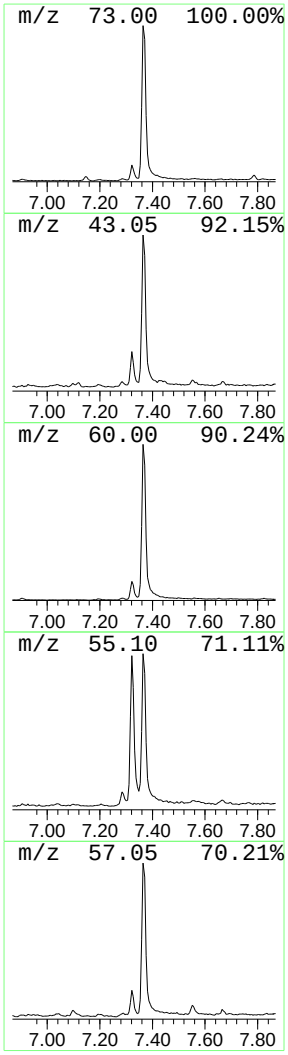
Peak Number 3 Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.365	20.93 ppm	1757040	Phenanthrene-d10b	6.792

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
4	Tridecanoic acid	214	C13H26O2	000638-53-9	93
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	87





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Data File : ct7985.D
Acq On : 03 Jul 2024 04:21 pm
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Sample : jd91339-5
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

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TIC Integration Parameters: lscint.p

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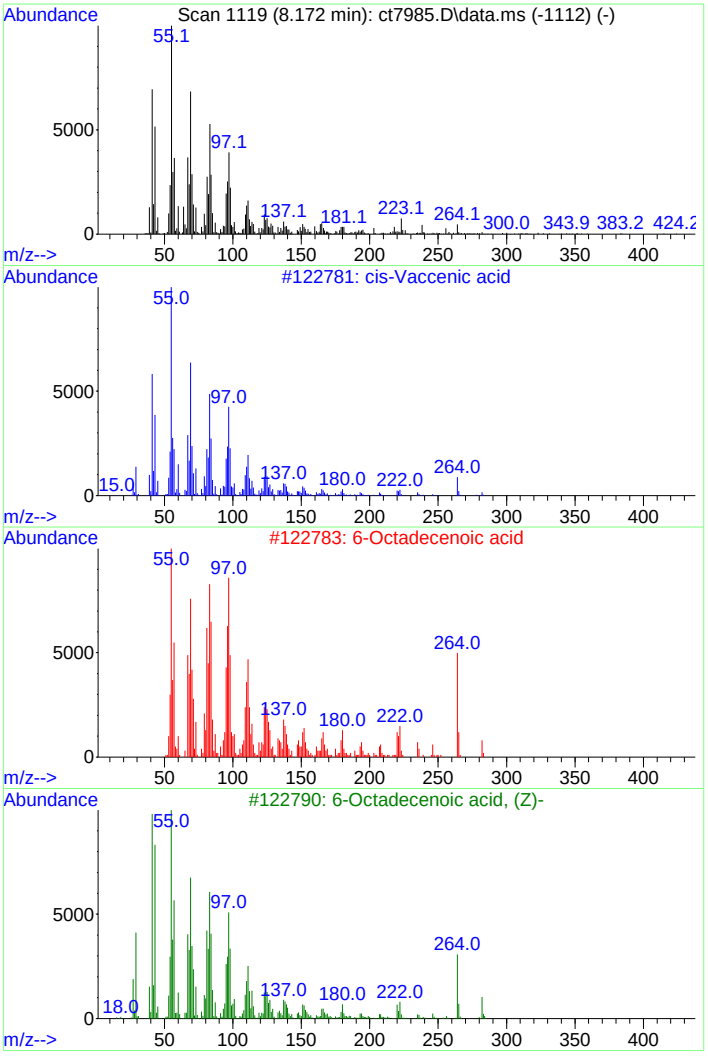
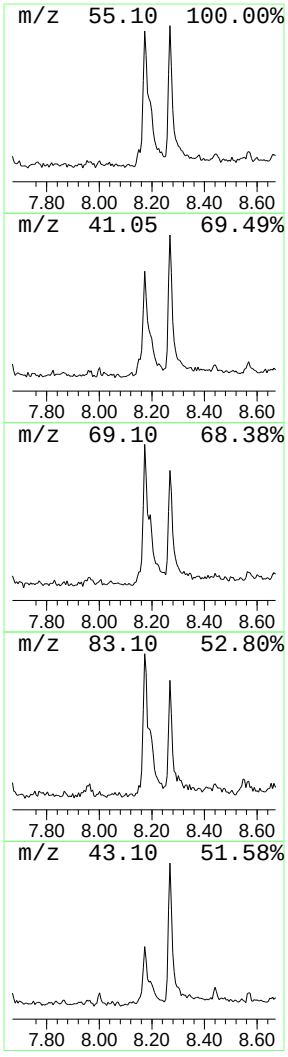
Peak Number 4 Octadecenoic acid Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.172	10.18 ppm	854161	Phenanthrene-d10b	6.792

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	cis-Vaccenic acid	282	C18H34O2	000506-17-2	99
2	6-Octadecenoic acid	282	C18H34O2	1000336-66-8	97
3	6-Octadecenoic acid, (Z)-	282	C18H34O2	000593-39-5	96
4	Oleic Acid	282	C18H34O2	000112-80-1	94
5	9-Octadecenoic acid, methyl este...	296	C19H36O2	001937-62-8	91





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Acq On : 03 Jul 2024 04:21 pm
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Sample : jd91339-5
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
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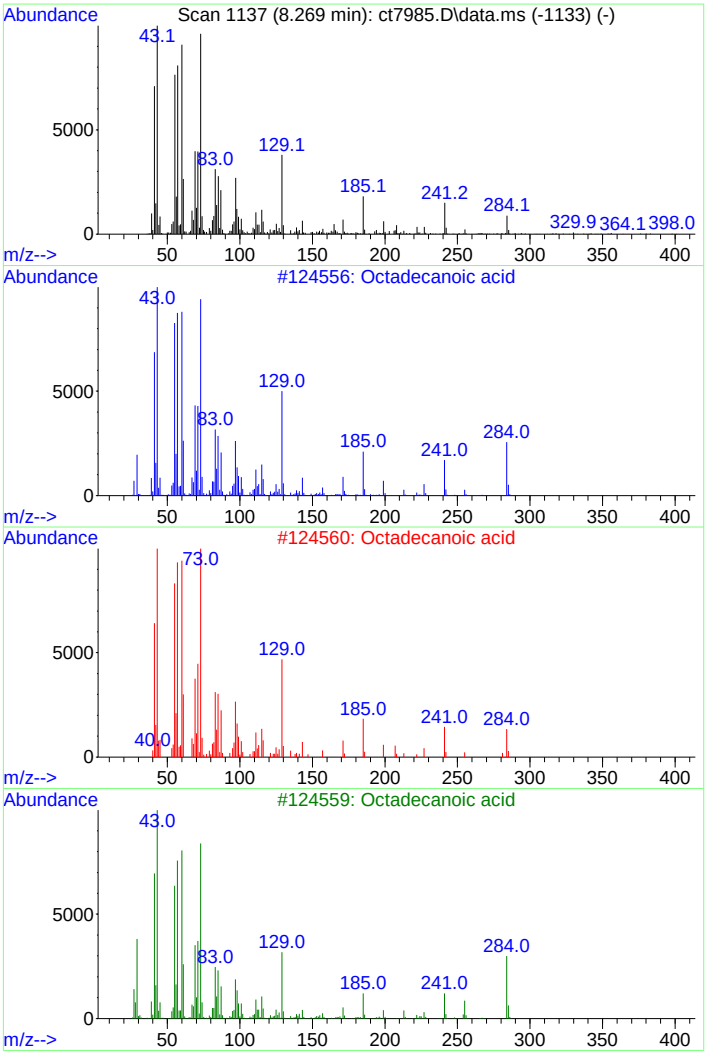
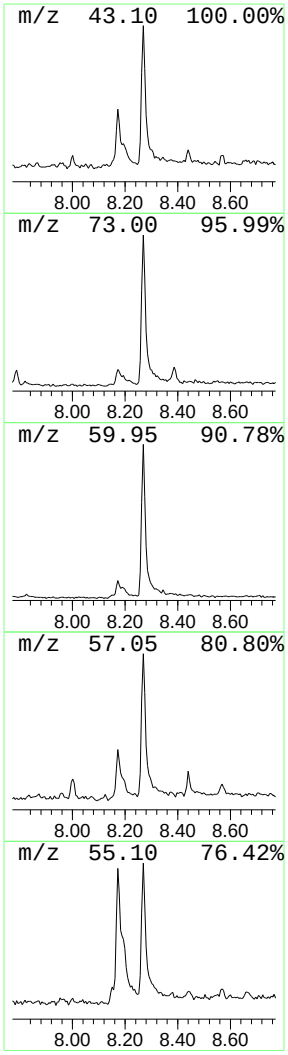
Peak Number 5 Octadecanoic acid Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.269	8.40 ppm	705013	Phenanthrene-d10b	6.792

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Octadecanoic acid	284	C18H36O2	000057-11-4	96
3	Octadecanoic acid	284	C18H36O2	000057-11-4	96
4	Octadecanoic acid	284	C18H36O2	000057-11-4	95
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	91





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Acq On : 03 Jul 2024 04:21 pm
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Sample : jd91339-5
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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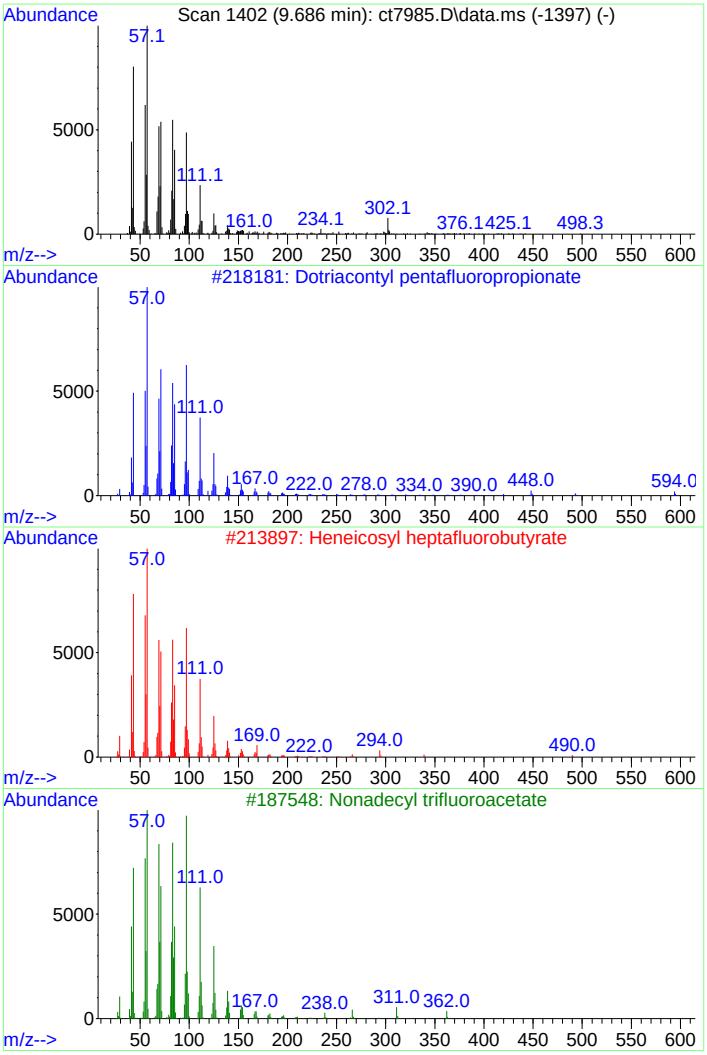
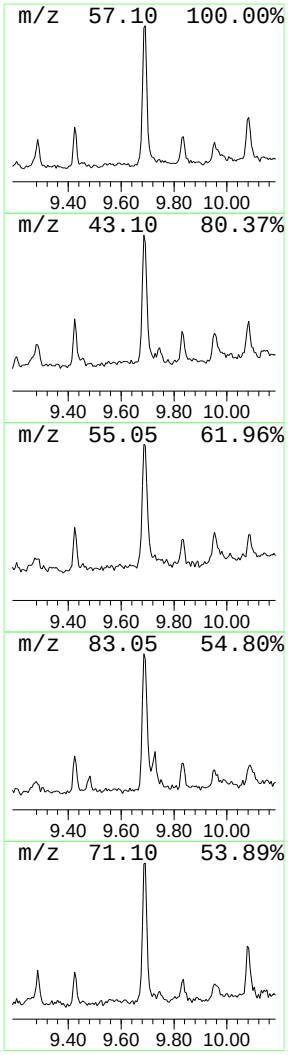
Peak Number 6 unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.686	8.32 ppm	584619	Chrysene-d12	9.804

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dotriacontyl pentafluoropropionate	612	C35H65F5O2	1000351-81-4	87
2	Heneicosyl heptafluorobutyrate	508	C25H43F7O2	1000351-83-8	87
3	Nonadecyl trifluoroacetate	380	C21H39F3O2	1000351-76-3	87
4	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	1000283-04-2	87
5	9-Tricosene, (Z)-	322	C23H46	027519-02-4	86





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Acq On : 03 Jul 2024 04:21 pm
Operator : karimam
Sample : jd91339-5
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

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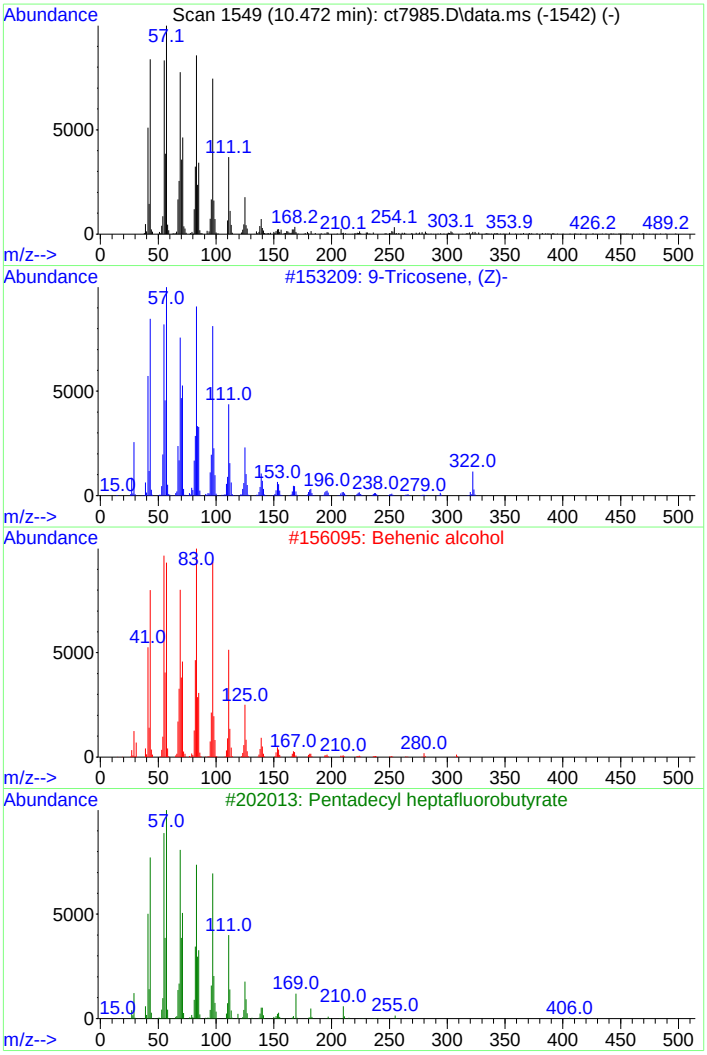
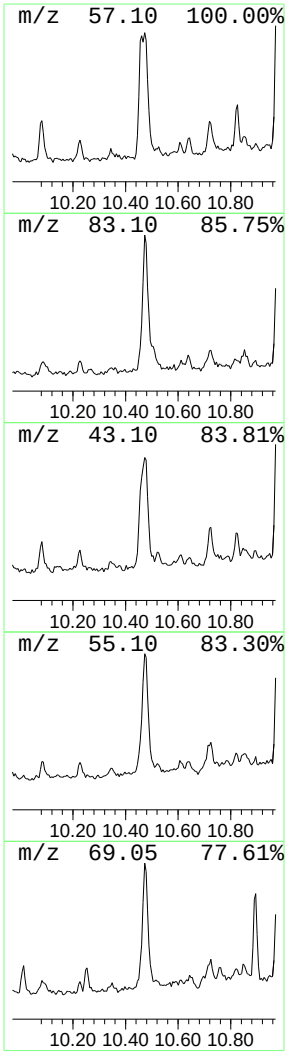
Peak Number 7 unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.472	12.57 ppm	883069	Chrysene-d12a	9.804

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Tricosene, (Z)-	322	C23H46	027519-02-4	96
2	Behenic alcohol	326	C22H46O	000661-19-8	95
3	Pentadecyl heptafluorobutyrate	424	C19H31F7O2	1000351-82-6	94
4	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	94
5	Pentadecyl pentafluoropropionate	374	C18H31F5O2	1000351-80-4	94





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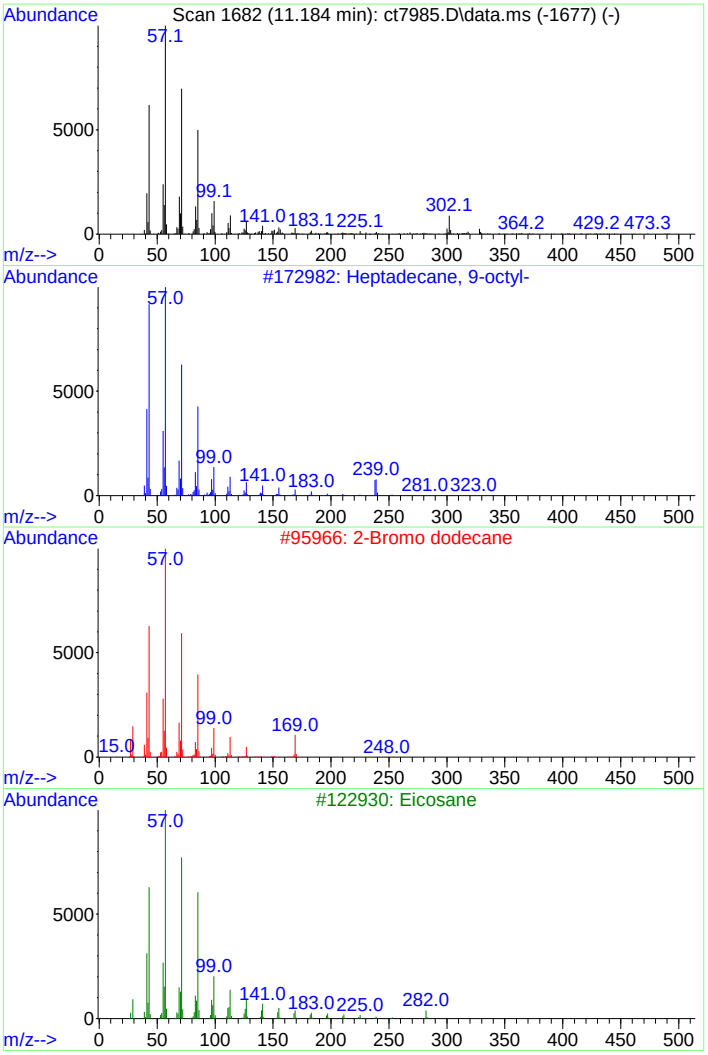
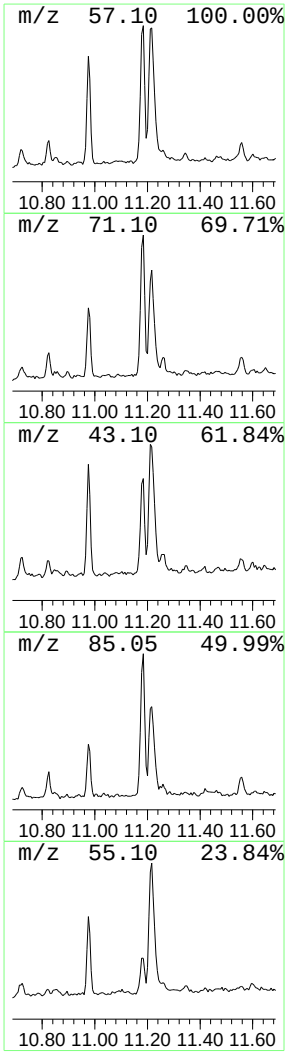
Peak Number 8 alkane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.184	6.40 ppm	517605	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	94
2	2-Bromo dodecane	248	C12H25Br	013187-99-0	91
3	Eicosane	282	C20H42	000112-95-8	91
4	Heneicosane	296	C21H44	000629-94-7	87
5	Nonadecane	268	C19H40	000629-92-5	87





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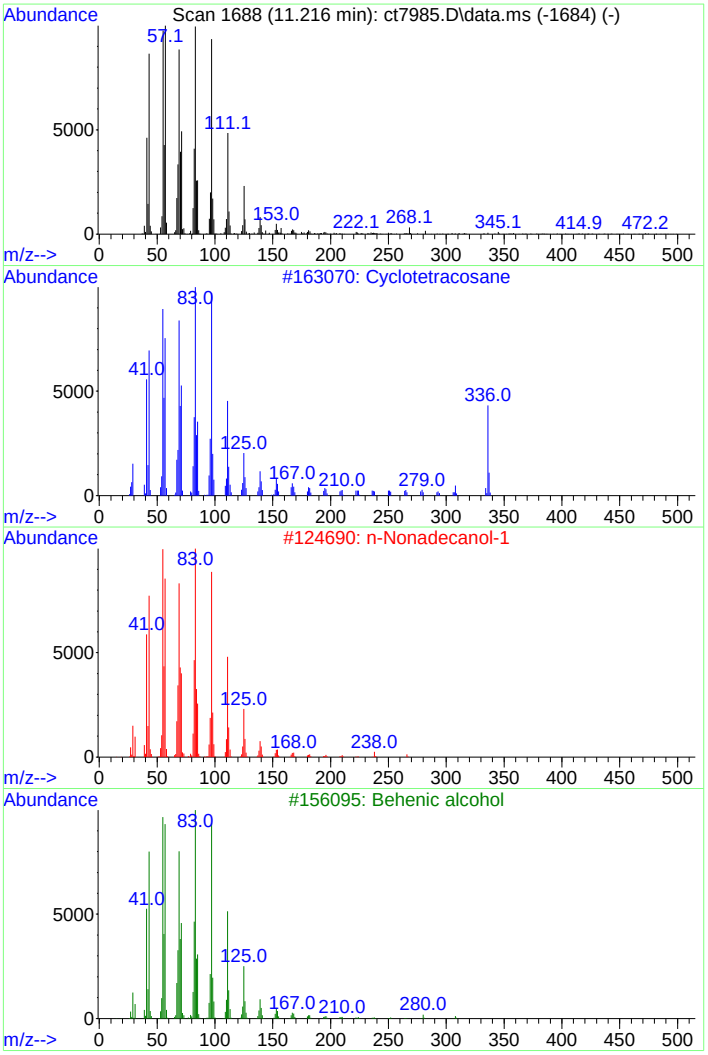
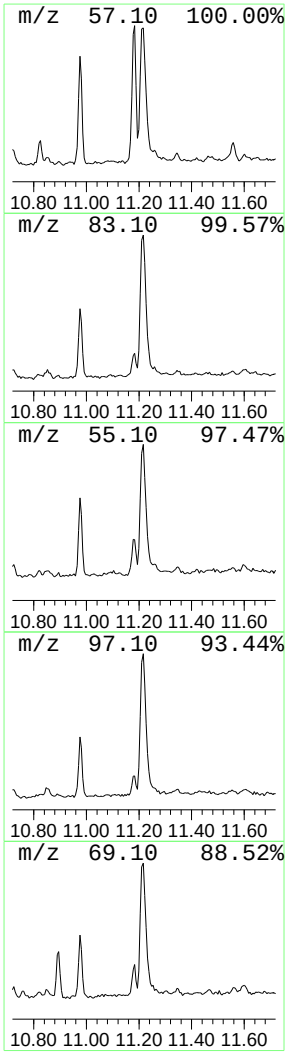
Peak Number 9 cycloalkane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.216	16.25 ppm	1315310	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetracosane	336	C24H48	000297-03-0	97
2	n-Nonadecanol-1	284	C19H40O	001454-84-8	94
3	Behenic alcohol	326	C22H46O	000661-19-8	94
4	1-Heneicosanol	312	C21H44O	015594-90-8	94
5	n-Tetracosanol-1	354	C24H50O	000506-51-4	94





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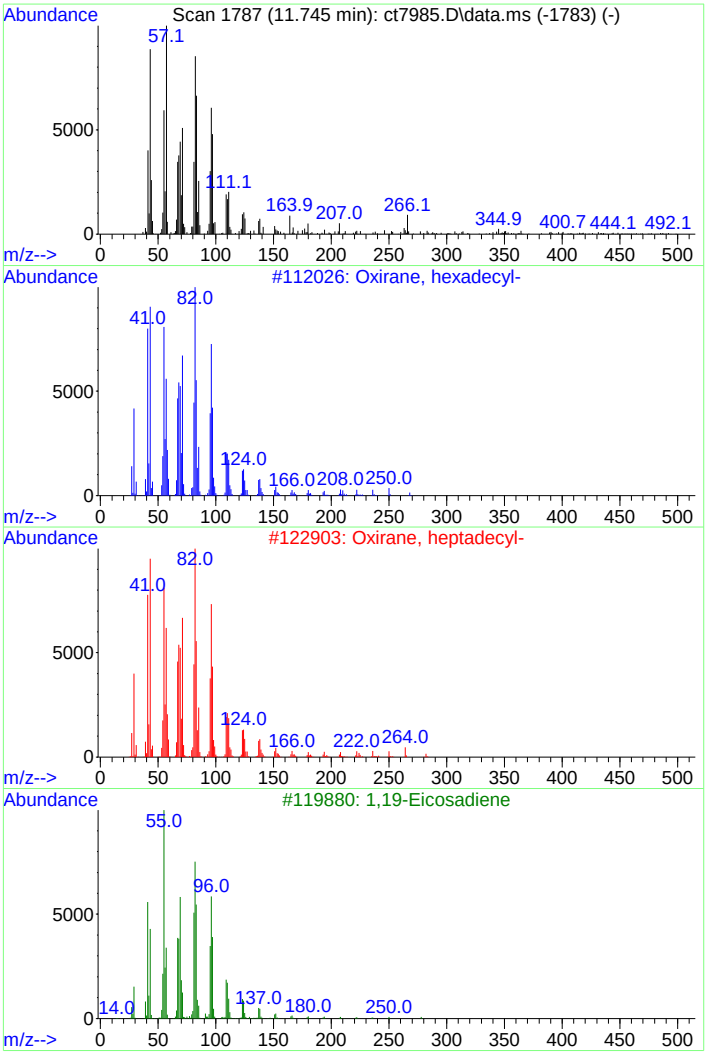
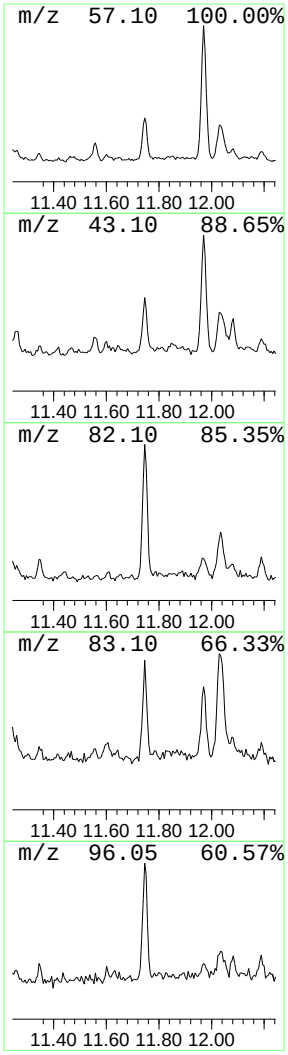
Peak Number 10 Oxirane, hexadecyl Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.745	4.26 ppm	344975	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	87
2	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	83
3	1,19-Eicosadiene	278	C20H38	014811-95-1	76
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	70
5	11-Tetradecyn-1-ol acetate	252	C16H28O2	033925-72-3	70





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ALS Vial : 19 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

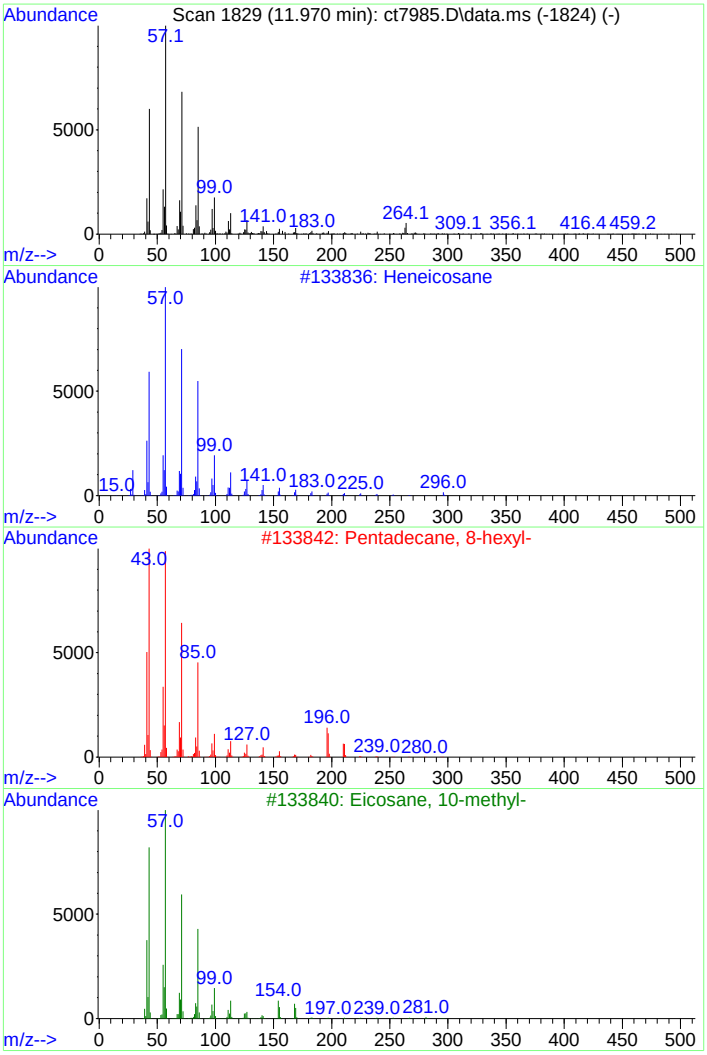
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

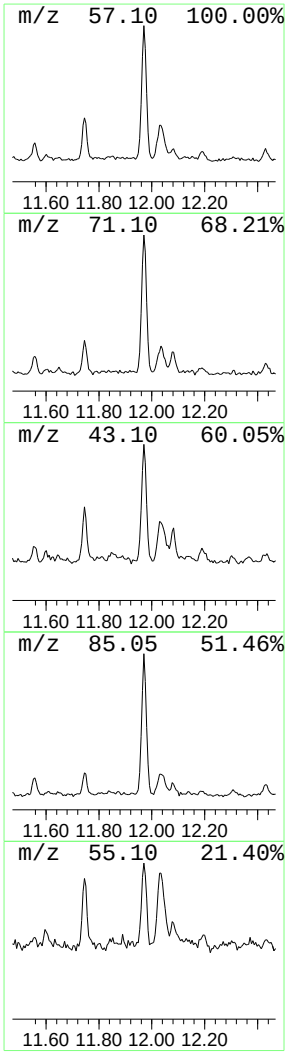
****

Peak Number 11 alkane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.970	7.55 ppm	610960	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	93
2	Pentadecane, 8-hexyl-	296	C21H44	013475-75-7	90
3	Eicosane, 10-methyl-	296	C21H44	054833-23-7	87
4	Octadecane, 1-iodo-	380	C18H37I	000629-93-6	83
5	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	80





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7985.D
Acq On : 03 Jul 2024 04:21 pm
Operator : karimam
Sample : jd91339-5
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

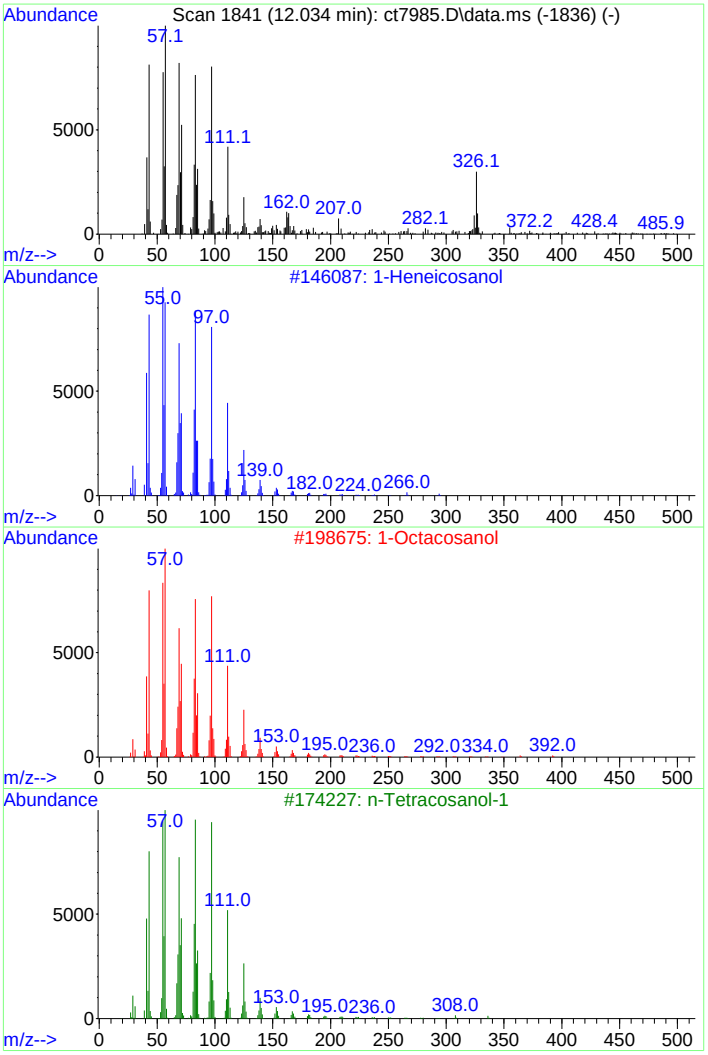
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

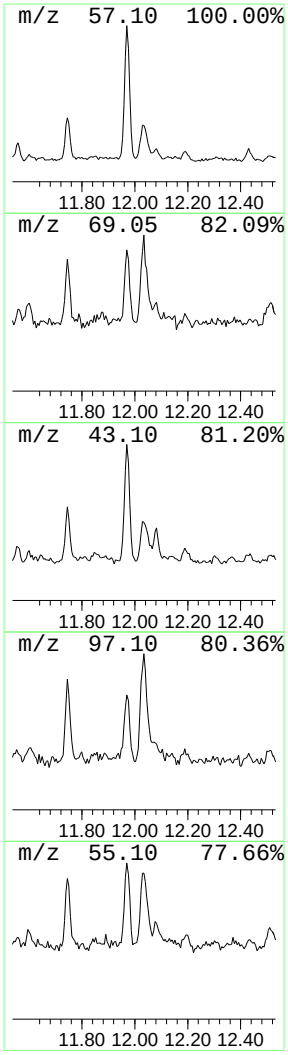
****

Peak Number 12 Heneicosanol Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.034	6.76 ppm	547200	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	93
2	1-Octacosanol	410	C28H58O	1000351-79-2	91
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	91
4	Behenic alcohol	326	C22H46O	000661-19-8	91
5	1-Tricosene	322	C23H46	018835-32-0	86





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7985.D
Acq On : 03 Jul 2024 04:21 pm
Operator : karimam
Sample : jd91339-5
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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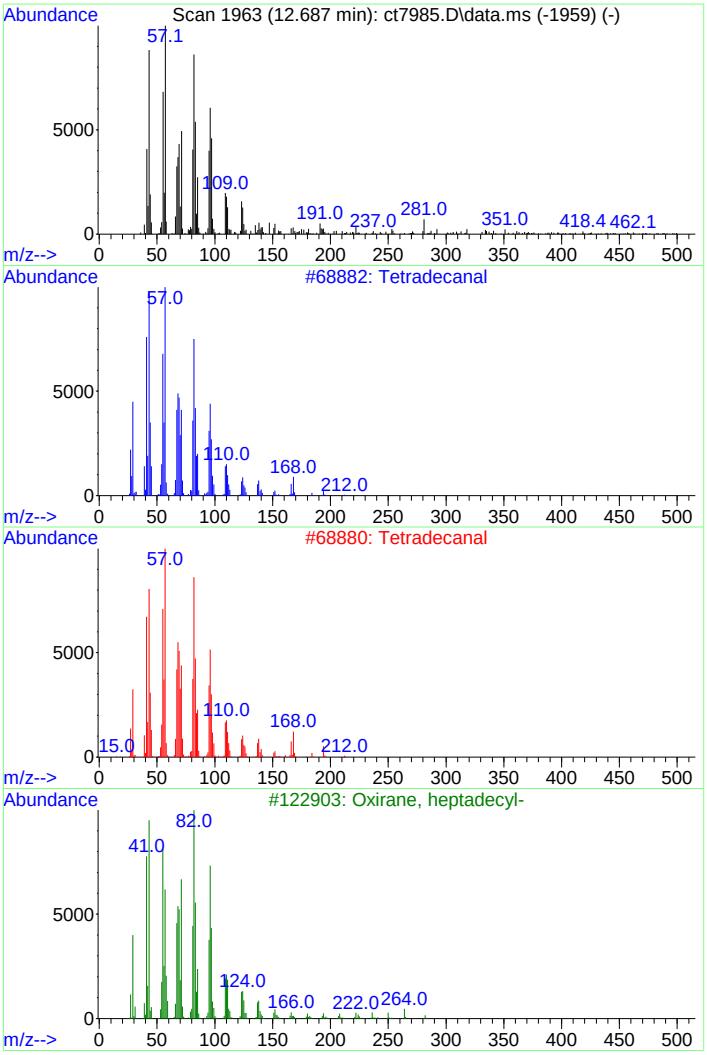
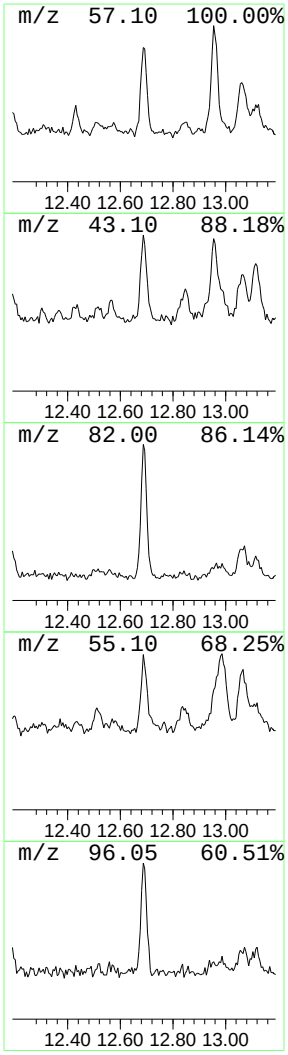
Peak Number 13 Tetradecanal Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.687	6.16 ppm	498129	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecanal	212	C14H28O	000124-25-4	93
2	Tetradecanal	212	C14H28O	000124-25-4	86
3	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	81
4	Octadecanal	268	C18H36O	000638-66-4	80
5	Tetradecanal	212	C14H28O	000124-25-4	80





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7985.D
Acq On : 03 Jul 2024 04:21 pm
Operator : karimam
Sample : jd91339-5
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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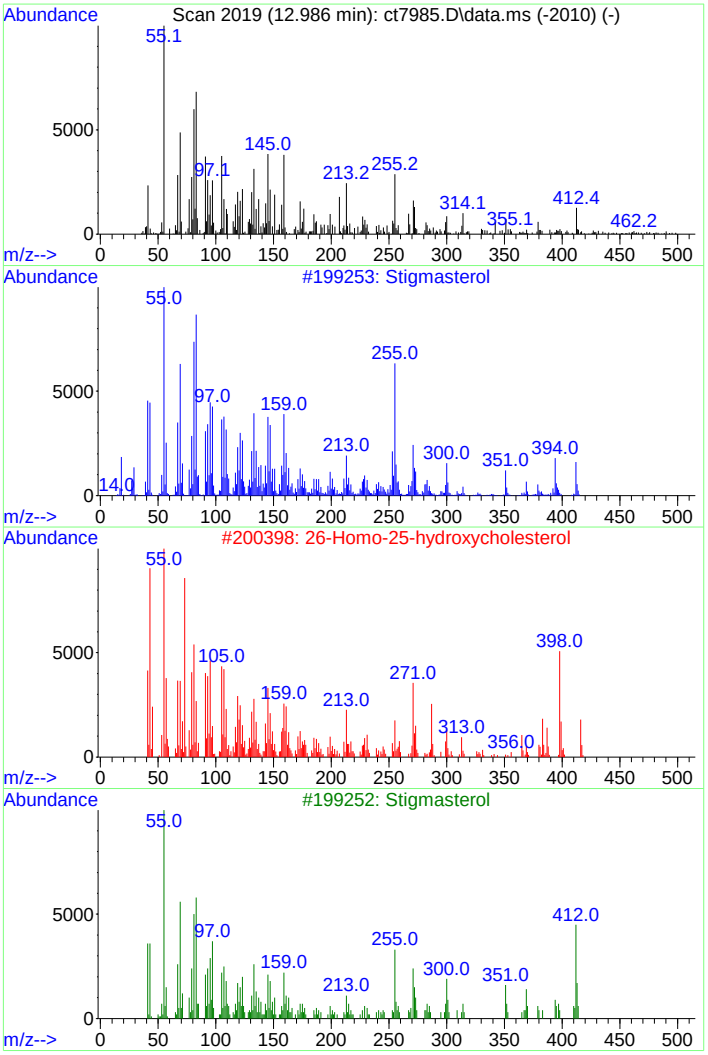
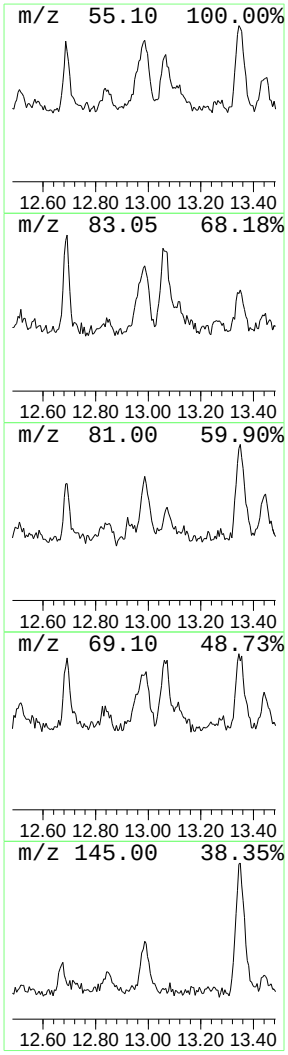
Peak Number 14 unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.986	10.45 ppm	845634	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmasterol	412	C29H48O	000083-48-7	70
2	26-Homo-25-hydroxycholesterol	416	C28H48O2	1000124-49-0	64
3	Stigmasterol	412	C29H48O	000083-48-7	38
4	Stigmasterol	412	C29H48O	000083-48-7	38
5	Stigmasterol	412	C29H48O	000083-48-7	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7985.D
Acq On : 03 Jul 2024 04:21 pm
Operator : karimam
Sample : jd91339-5
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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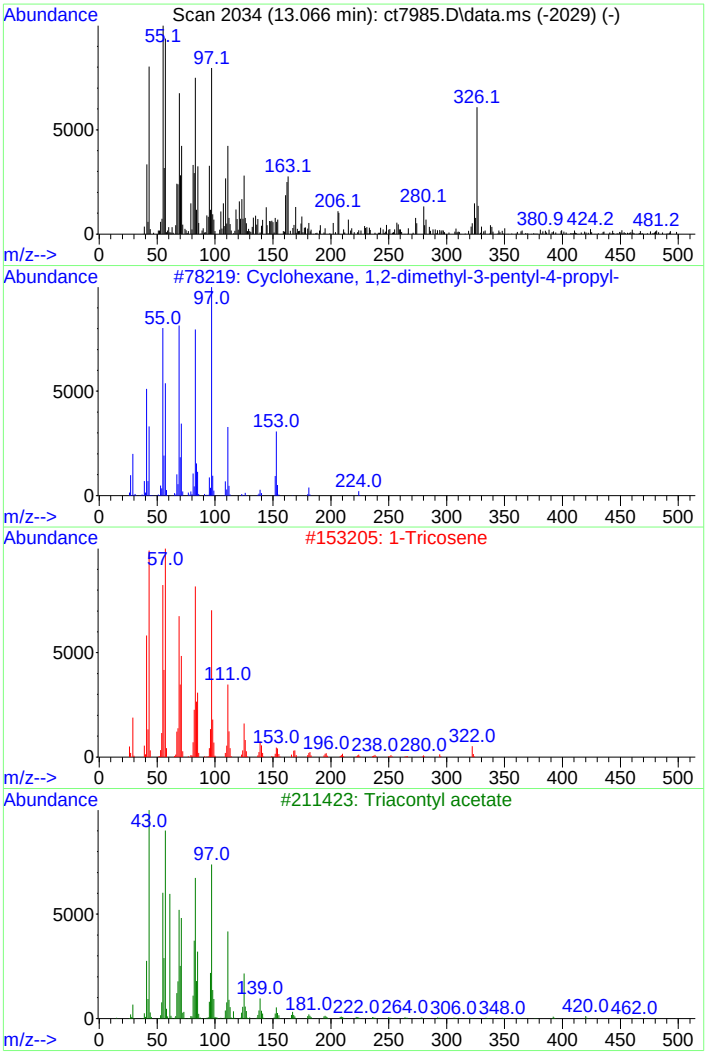
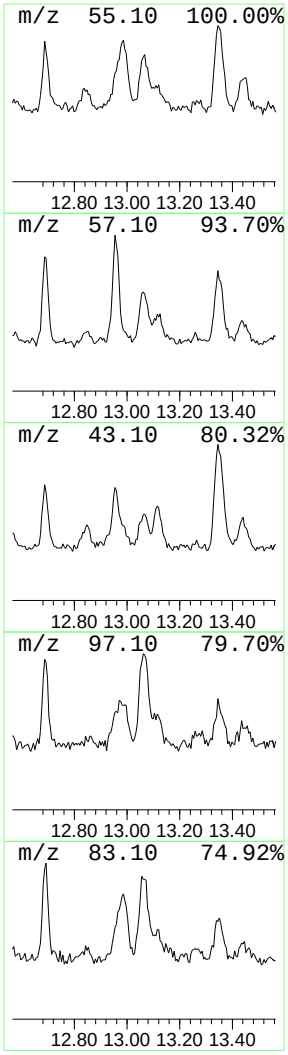
Peak Number 15 unknown Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.066	4.31 ppm	348938	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-3-pent...	224	C16H32	062376-17-4	55
2	1-Tricosene	322	C23H46	018835-32-0	55
3	Triacontyl acetate	480	C32H64O2	041755-58-2	52
4	Cyclopentane, 1,1,3-trimethyl-	112	C8H16	004516-69-2	45
5	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	45





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7985.D
Acq On : 03 Jul 2024 04:21 pm
Operator : karimam
Sample : jd91339-5
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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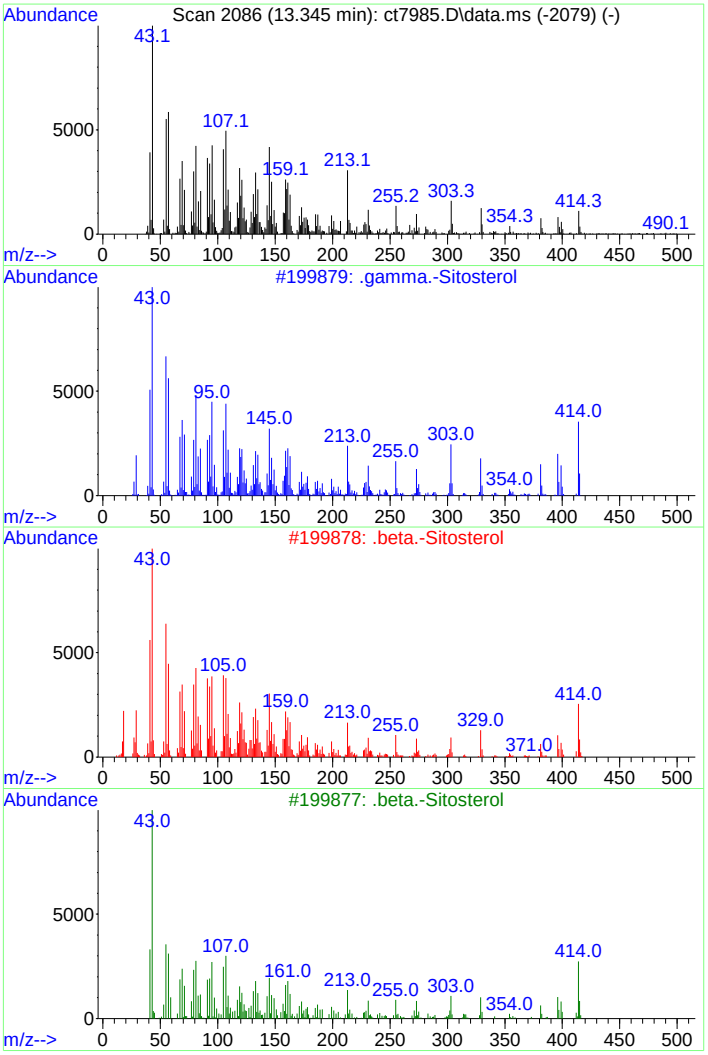
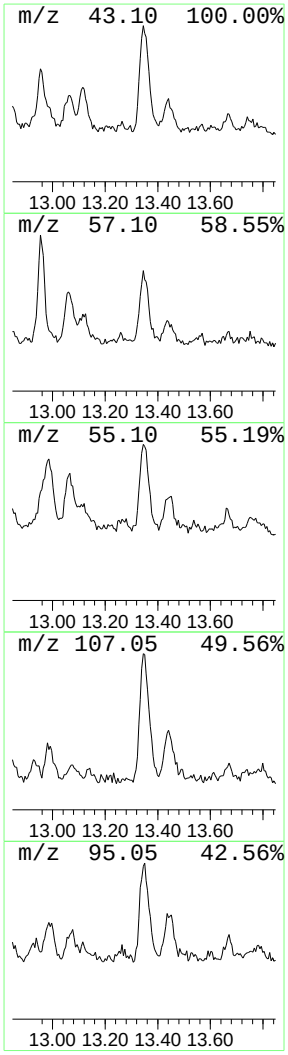
Peak Number 16 .gamma.-Sitosterol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.345	19.11 ppm	1546280	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	91
4	.gamma.-Sitosterol	414	C29H50O	000083-47-6	91
5	Campesterol	400	C28H48O	000474-62-4	64





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7985.D
Acq On : 03 Jul 2024 04:21 pm
Operator : karimam
Sample : jd91339-5
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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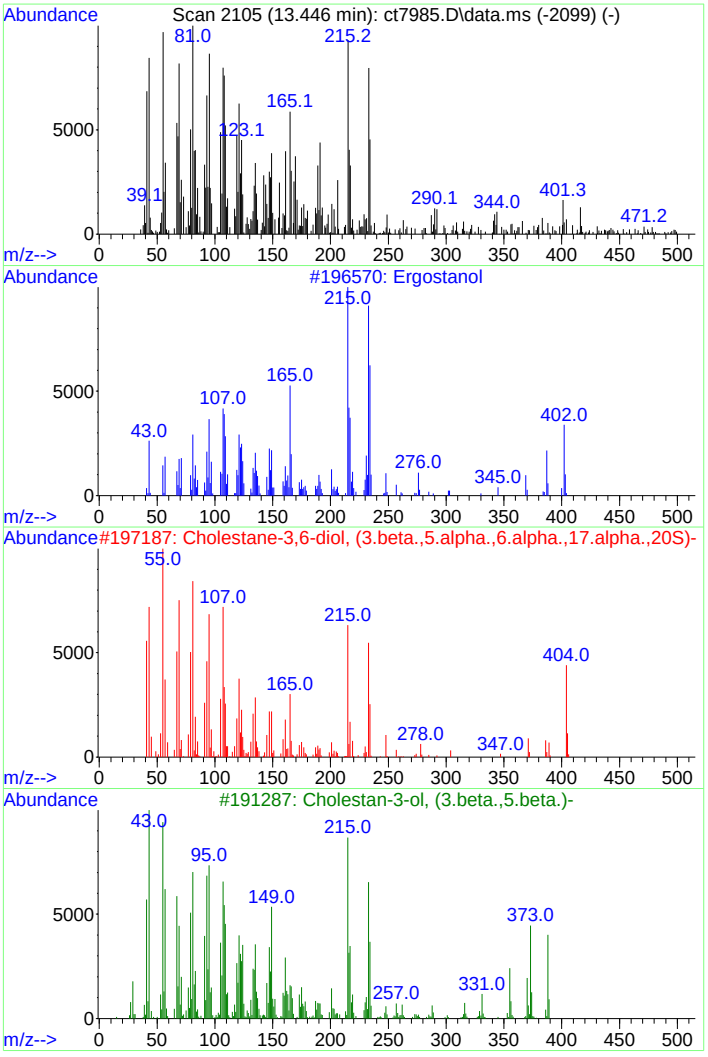
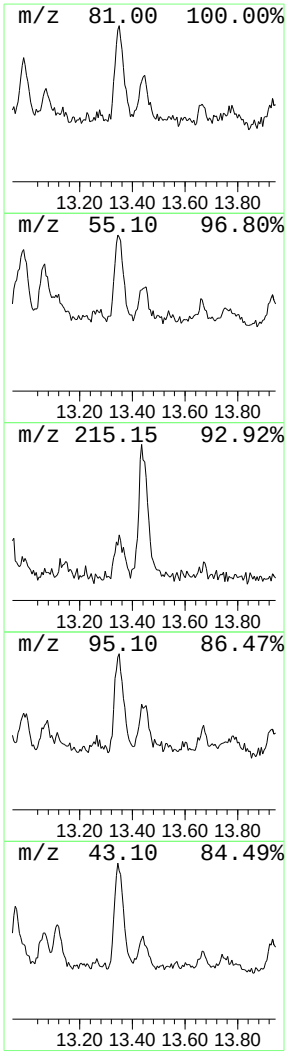
Peak Number 17 Ergostanol Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.446	6.11 ppm	494790	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ergostanol	402	C28H50O	006538-02-9	95
2	Cholestane-3,6-diol, (3.beta.,5....	404	C27H48O2	041083-77-6	94
3	Cholestan-3-ol, (3.beta.,5.beta.)-	388	C27H48O	000360-68-9	83
4	Stigmastanol	416	C29H52O	019466-47-8	81
5	Cholestane, 3-ethoxy-, (3.beta.,...	416	C29H52O	002089-02-3	78





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7985.D
Acq On : 03 Jul 2024 04:21 pm
Operator : karimam
Sample : jd91339-5
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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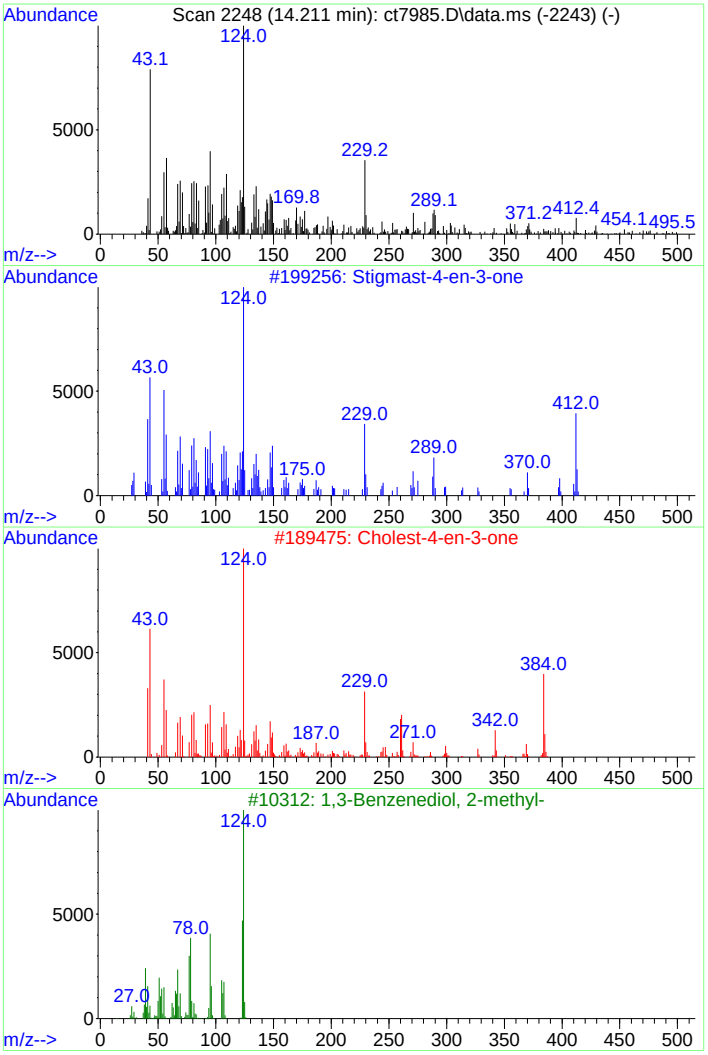
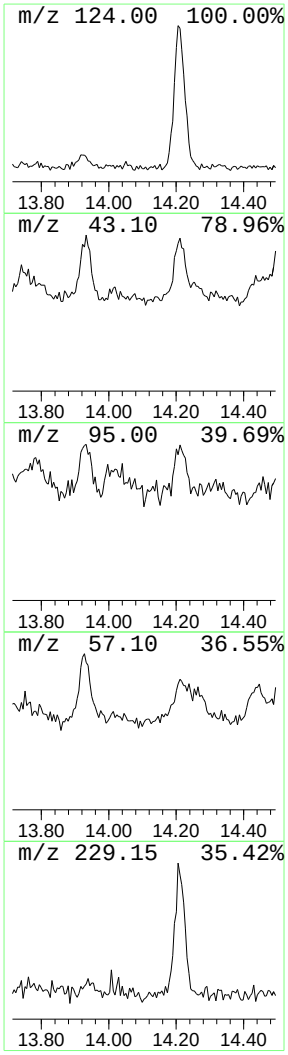
Peak Number 18 Stigmast-en-one Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.211	4.44 ppm	359081	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	91
2	Cholest-4-en-3-one	384	C27H44O	000601-57-0	62
3	1,3-Benzenediol, 2-methyl-	124	C7H8O2	000608-25-3	49
4	3-Cyclohexene-1-carboxaldehyde, ...	124	C8H12O	007560-64-7	49
5	5-Ethyl-2-furaldehyde	124	C7H8O2	023074-10-4	49





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7985.D
Acq On : 03 Jul 2024 04:21 pm
Operator : karimam
Sample : jd91339-5
Misc : op55800,ect375,30.6,,,1,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown	4.685	4.8	ppm	359103	4	4.289	3006080	40.0
Hexadecenoic acid	7.322	10.9	ppm	916627	8	6.792	3357780	40.0
Hexadecanoic acid	7.365	20.9	ppm	1757040	8	6.792	3357780	40.0
Octadecenoic acid	8.172	10.2	ppm	854161	8	6.792	3357780	40.0
Octadecanoic acid	8.269	8.4	ppm	705013	8	6.792	3357780	40.0
unknown	9.686	8.3	ppm	584619	9	9.804	2811050	40.0
unknown	10.472	12.6	ppm	883069	10	9.804	2811050	40.0
alkane	11.184	6.4	ppm	517605	11	11.440	3236740	40.0
cycloalkane	11.216	16.3	ppm	1315310	11	11.440	3236740	40.0
Oxirane, hexadecyl	11.745	4.3	ppm	344975	11	11.440	3236740	40.0
alkane	11.970	7.5	ppm	610960	11	11.440	3236740	40.0
Heneicosanol	12.034	6.8	ppm	547200	11	11.440	3236740	40.0
Tetradecanal	12.687	6.2	ppm	498129	11	11.440	3236740	40.0
unknown	12.986	10.4	ppm	845634	11	11.440	3236740	40.0
unknown	13.066	4.3	ppm	348938	11	11.440	3236740	40.0
.gamma.-Sitosterol	13.345	19.1	ppm	1546280	11	11.440	3236740	40.0
Ergostanol	13.446	6.1	ppm	494790	11	11.440	3236740	40.0
Stigmast-en-one	14.211	4.4	ppm	359081	11	11.440	3236740	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jacky Takeuchi 07/03/24 21:22

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7986.D
Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6 Inst : GCMS_CT
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 03 22:09:50 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

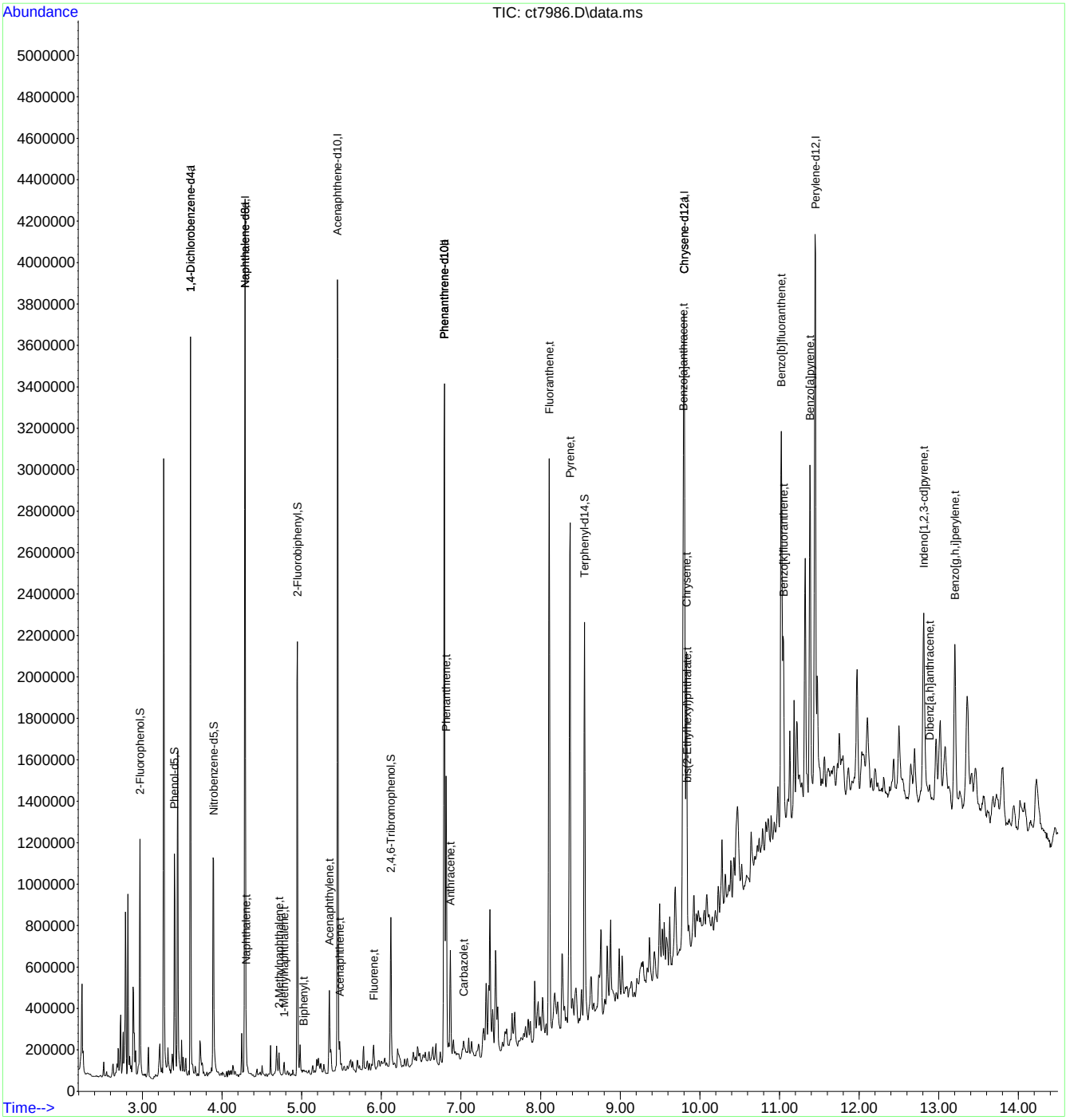
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.605	152	370348	40.00	ppm	0.00
24) Naphthalene-d8	4.289	136	1378436	40.00	ppm	0.00
46) Acenaphthene-d10	5.450	164	746410	40.00	ppm	0.00
69) Phenanthrene-d10	6.793	188	1256734	40.00	ppm	0.00
84) Chrysene-d12	9.804	240	968503	40.00	ppm	0.00
93) Perylene-d12	11.451	264	1172970	40.00	ppm	0.01
103) 1,4-Dichlorobenzene-d4a	3.605	152	370348	40.00	ppm	0.00
105) Phenanthrene-d10a	6.793	188	1256734	40.00	ppm	0.00
107) Naphthalene-d8a	4.289	136	1378436	40.00	ppm	0.00
109) Phenanthrene-d10b	6.793	188	1256734	40.00	ppm	0.00
112) Chrysene-d12a	9.804	240	968503	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.968	112	237081	19.85	ppm	0.00
Spiked Amount 50.000			Recovery = 39.70%			
8) Phenol-d5	3.401	99	313318	20.95	ppm	0.00
Spiked Amount 50.000			Recovery = 41.90%			
25) Nitrobenzene-d5	3.894	82	304696	21.50	ppm	0.00
Spiked Amount 50.000			Recovery = 43.00%			
51) 2-Fluorobiphenyl	4.947	172	563835	24.21	ppm	0.00
Spiked Amount 50.000			Recovery = 48.42%			
74) 2,4,6-Tribromophenol	6.119	330	65156	27.29	ppm	0.00
Spiked Amount 50.000			Recovery = 54.58%			
87) Terphenyl-d14	8.552	244	550930	22.95	ppm	-0.02
Spiked Amount 50.000			Recovery = 45.90%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
38) Naphthalene	4.300	128	37491	1.0791	ppm	97
44) 2-Methylnaphthalene	4.717	141	22987	1.1298	ppm	92
45) 1-Methylnaphthalene	4.781	141	13633	0.6999	ppm	95
53) Biphenyl	5.022	154	5121	0.1929	ppm	88
56) Acenaphthylene	5.348	152	154920	5.4561	ppm	98
59) Acenaphthene	5.477	153	24162	1.1249	ppm	96
66) Fluorene	5.905	166	36503	1.6074	ppm	98
78) Phenanthrene	6.814	178	448974	13.8919	ppm	99
79) Anthracene	6.867	178	212470	6.7959	ppm	98
80) Carbazole	7.033	167	33528	1.1129	ppm	99
82) Fluoranthene	8.108	202	1111191	35.9486	ppm	97
86) Pyrene	8.370	202	1075976	31.2844	ppm	100
89) Benzo[a]anthracene	9.793	228	616909	20.4546	ppm	95
91) Chrysene	9.831	228	598233	20.2374	ppm	97
92) bis(2-Ethylhexyl)phtha...	9.841	149	10409	1.9222	ppm	91
95) Benzo[b]fluoranthene	11.023	252	941680m	28.2784	ppm	
96) Benzo[k]fluoranthene	11.050	252	291625m	8.8779	ppm	
97) Benzo[a]pyrene	11.382	252	689335	25.3850	ppm	99
98) Indeno[1,2,3-cd]pyrene	12.810	276	523044	14.9973	ppm	95
100) Dibenz[a,h]anthracene	12.885	278	44770	1.5933	ppm	97
102) Benzo[g,h,i]perylene	13.200	276	533562	19.8369	ppm	99

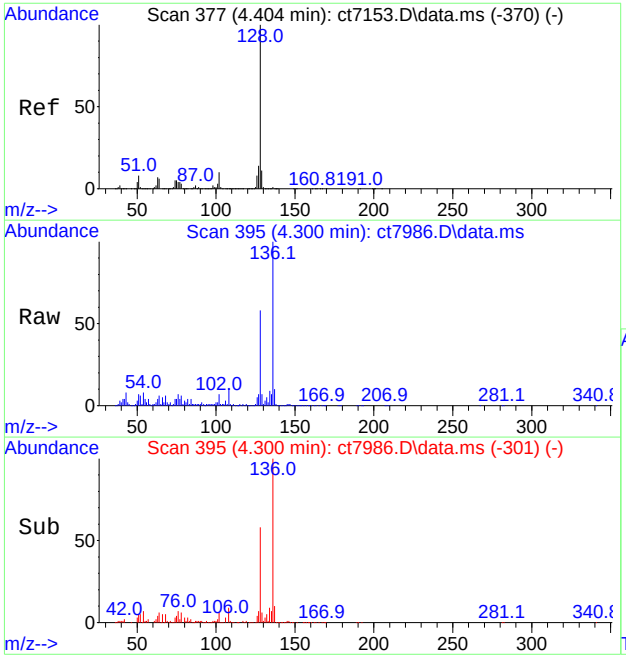
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7986.D
Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6 Inst : GCMS_CT
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 03 22:09:50 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

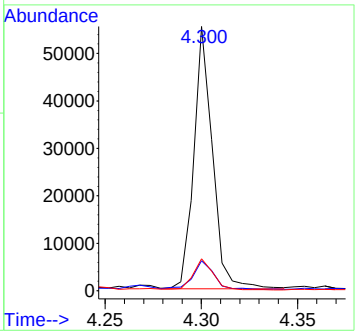


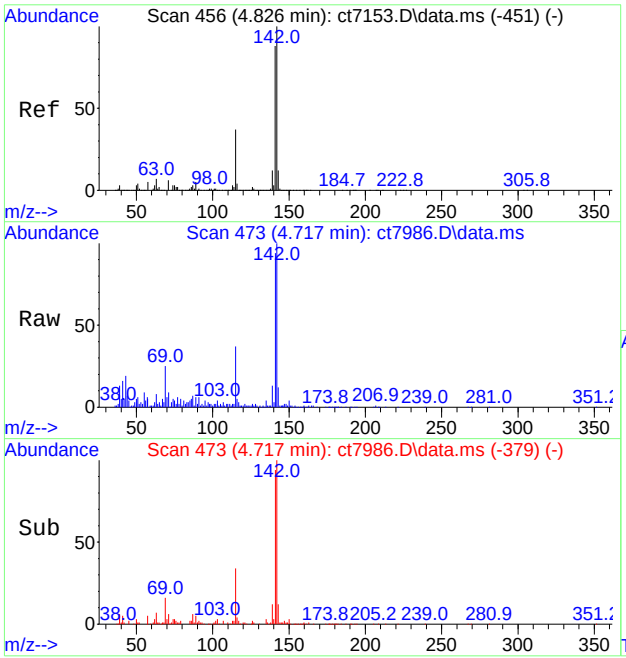


#38
Naphthalene
Concen: 1.0791 ppm
RT: 4.300 min Scan# 395
Delta R.T. 0.000 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:128 Resp: 37491

Ion	Ratio	Lower	Upper
128	100		
129	10.9	0.0	41.4
127	11.7	0.0	43.8

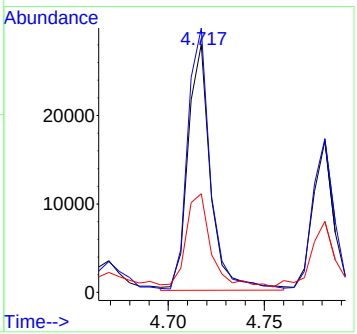


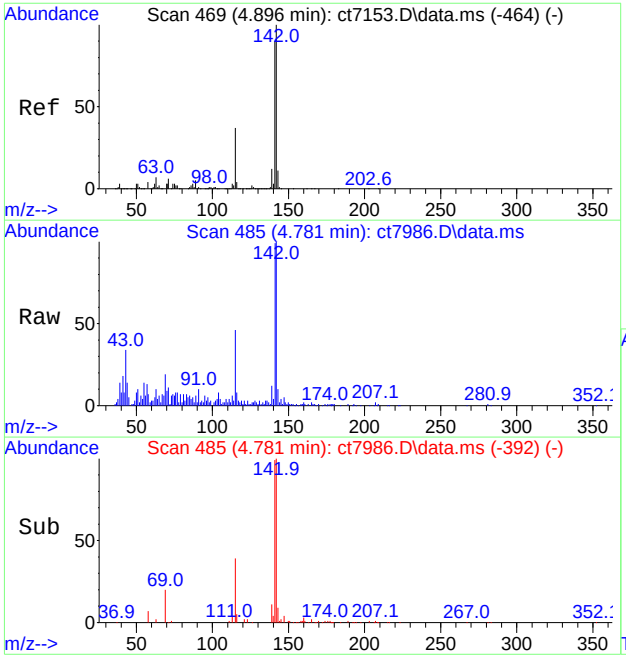


#44
2-Methylnaphthalene
Concen: 1.1298 ppm
RT: 4.717 min Scan# 473
Delta R.T. 0.004 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:141 Resp: 22987

Ion	Ratio	Lower	Upper
141	100		
142	107.3	85.1	145.1
115	36.7	12.5	72.5

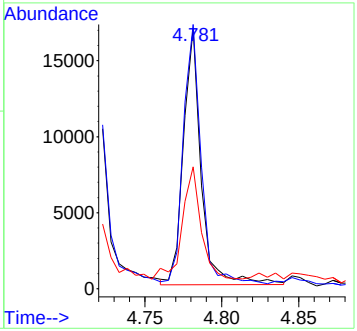


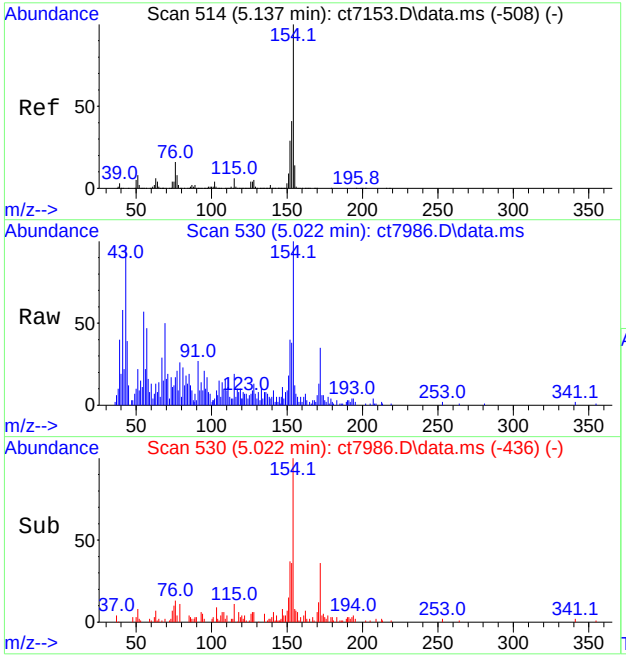


#45
1-Methylnaphthalene
Concen: 0.6999 ppm
RT: 4.781 min Scan# 485
Delta R.T. -0.000 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:141 Resp: 13633

Ion	Ratio	Lower	Upper
141	100		
142	101.9	78.9	138.9
115	42.2	11.3	71.3

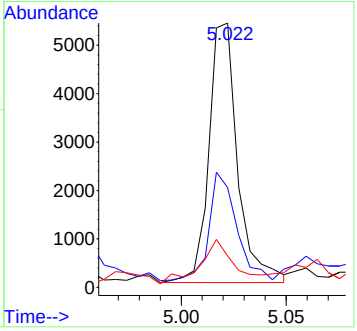


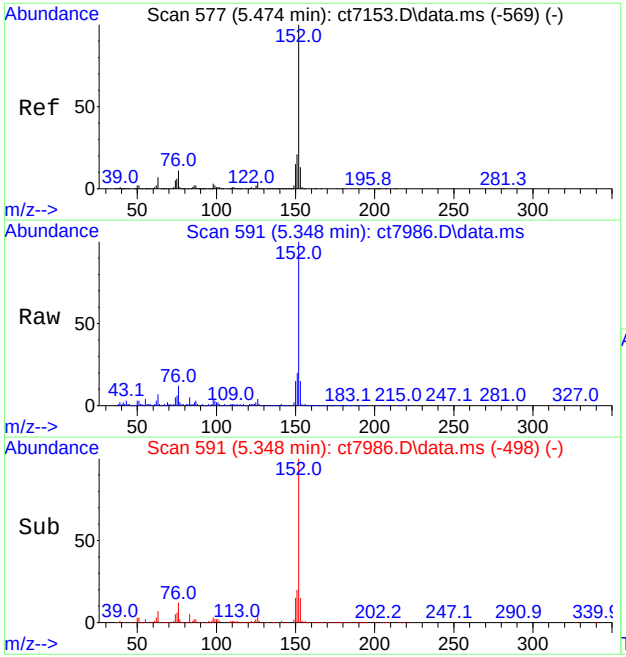


#53
Biphenyl
Concen: 0.1929 ppm
RT: 5.022 min Scan# 530
Delta R.T. 0.002 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:154 Resp: 5121

Ion	Ratio	Lower	Upper
154	100		
153	34.2	11.7	71.7
155	8.7	0.0	43.3

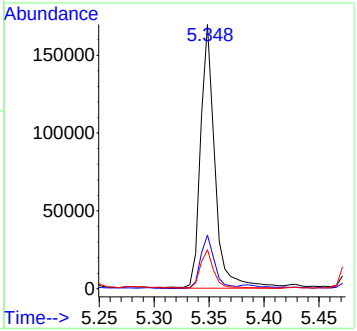


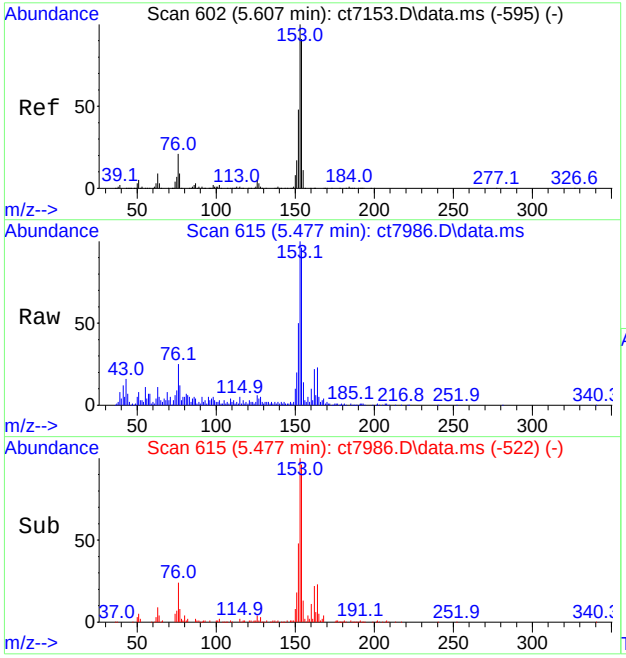


#56
Acenaphthylene
Concen: 5.4561 ppm
RT: 5.348 min Scan# 591
Delta R.T. -0.002 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:152 Resp: 154920

Ion	Ratio	Lower	Upper
152	100		
151	20.1	0.0	50.9
153	14.5	0.0	43.3

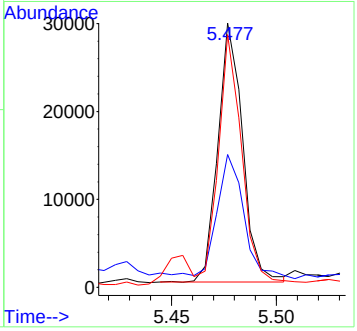


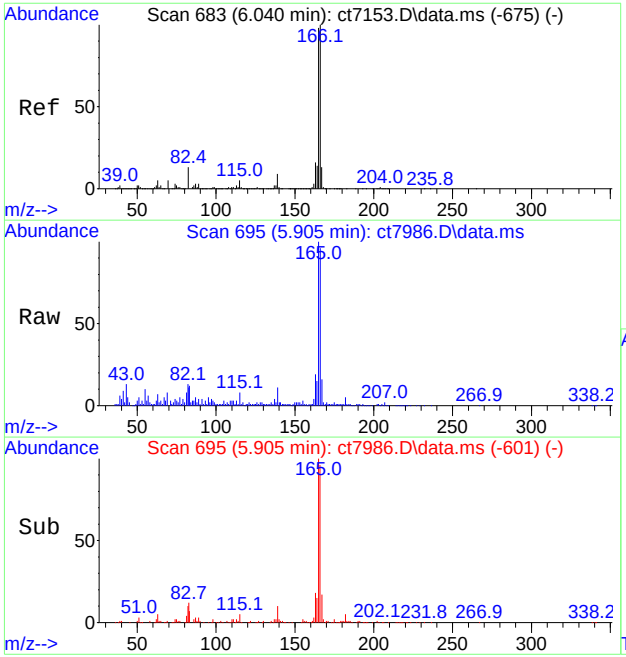


#59
Acenaphthene
Concen: 1.1249 ppm
RT: 5.477 min Scan# 615
Delta R.T. -0.005 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:153 Resp: 24162

Ion	Ratio	Lower	Upper
153	100		
152	46.7	18.3	78.3
154	95.1	60.9	120.9

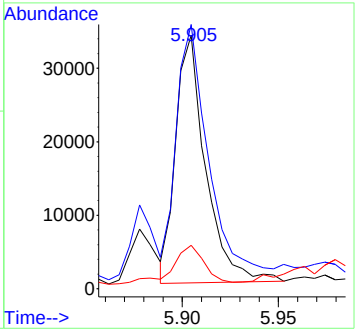


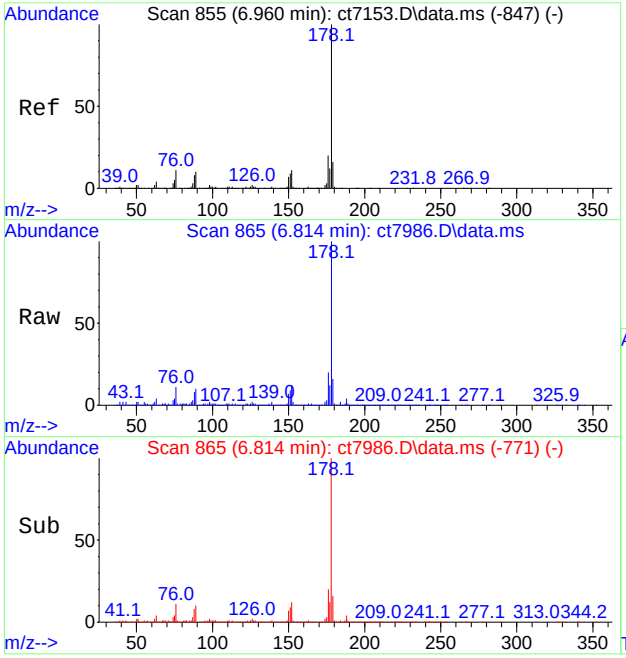


#66
Fluorene
Concen: 1.6074 ppm
RT: 5.905 min Scan# 695
Delta R.T. 0.004 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:166 Resp: 36503

Ion	Ratio	Lower	Upper
166	100		
165	100.0	67.6	127.6
167	13.4	0.0	43.5

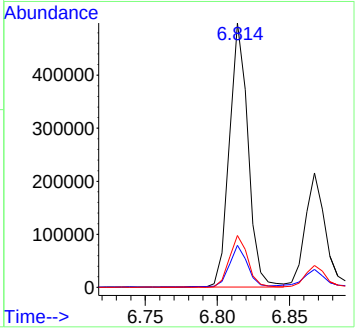


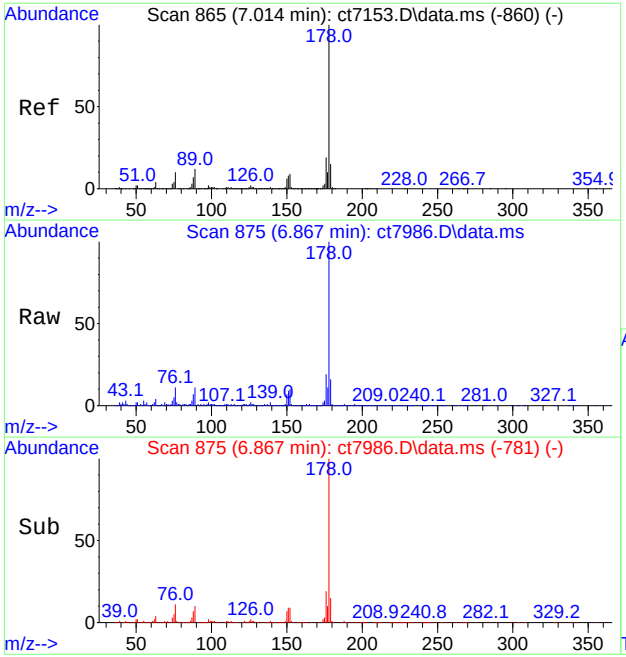


#78
Phenanthrene
Concen: 13.8919 ppm
RT: 6.814 min Scan# 865
Delta R.T. 0.001 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:178 Resp: 448974

Ion	Ratio	Lower	Upper
178	100		
179	15.5	0.0	46.0
176	19.6	0.0	50.0

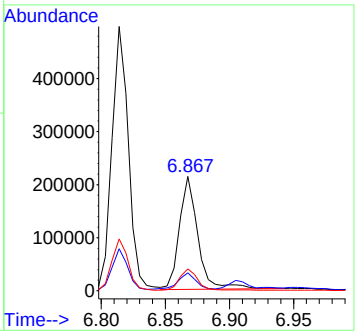


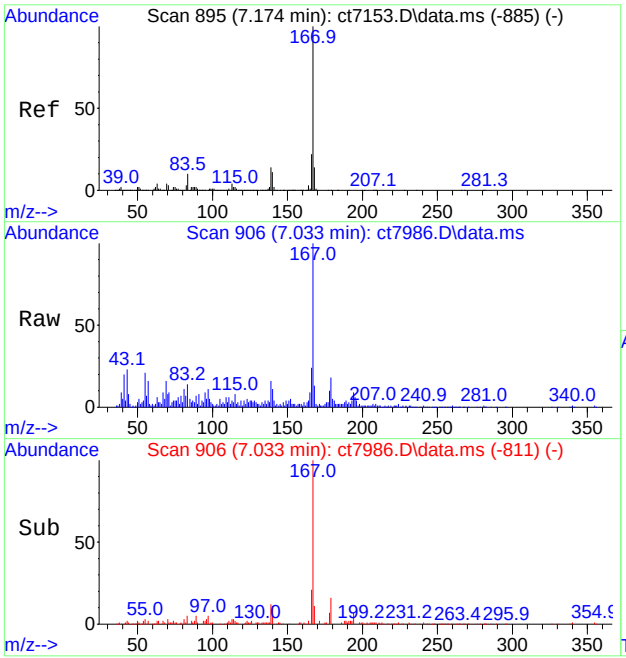


#79
Anthracene
Concen: 6.7959 ppm
RT: 6.867 min Scan# 875
Delta R.T. 0.002 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:178 Resp: 212470

Ion	Ratio	Lower	Upper
178	100		
179	13.8	0.0	45.5
176	19.1	0.0	49.3

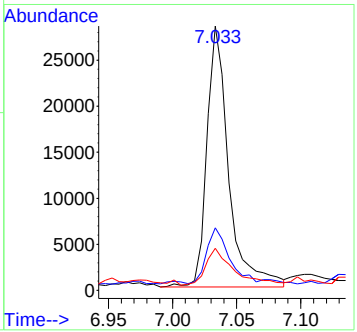


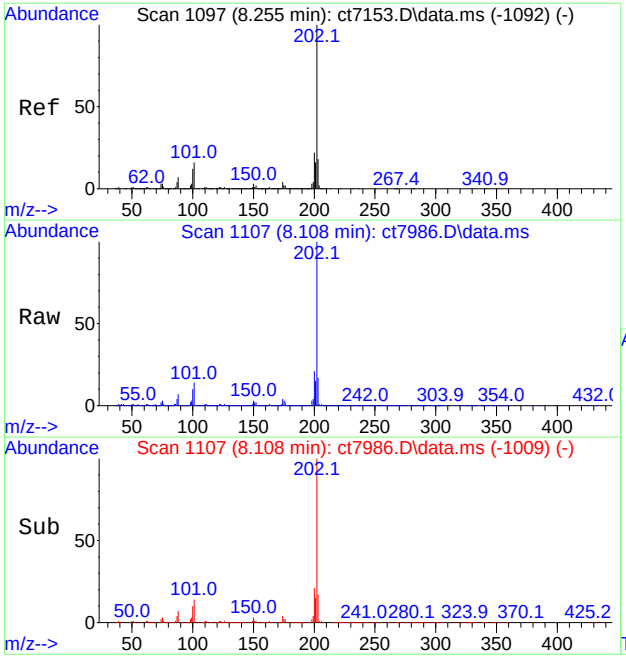


#80
Carbazole
Concen: 1.1129 ppm
RT: 7.033 min Scan# 906
Delta R.T. 0.010 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:167 Resp: 33528

Ion	Ratio	Lower	Upper
167	100		
166	21.5	0.0	51.7
139	13.4	0.0	43.9

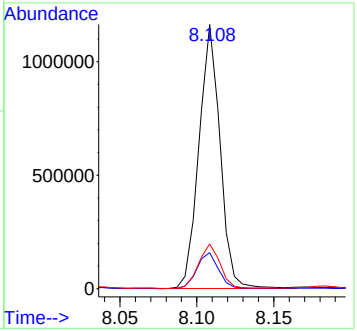


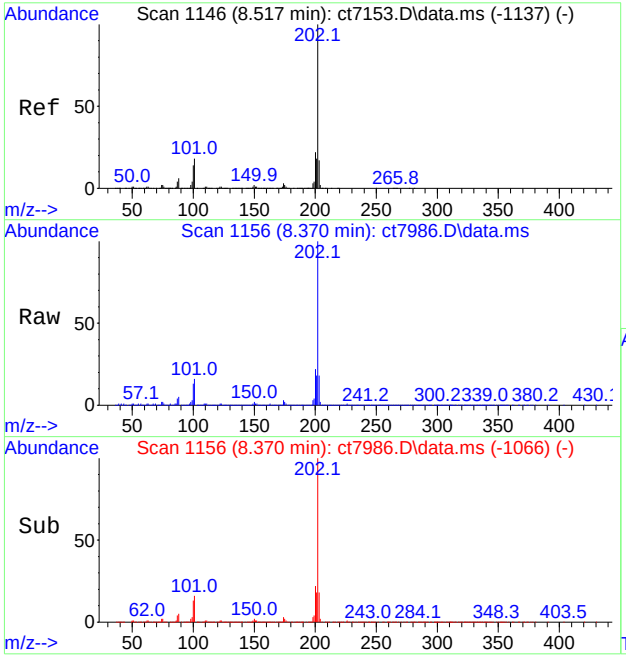


#82
Fluoranthene
Concen: 35.9486 ppm
RT: 8.108 min Scan# 1107
Delta R.T. 0.025 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:202 Resp: 1111191

Ion	Ratio	Lower	Upper
202	100		
101	13.6	0.0	45.3
203	16.8	0.0	48.1

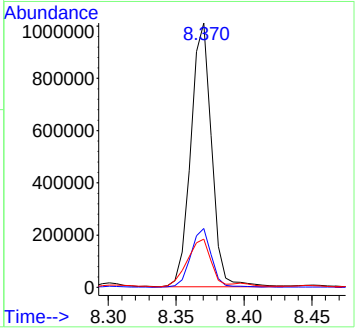


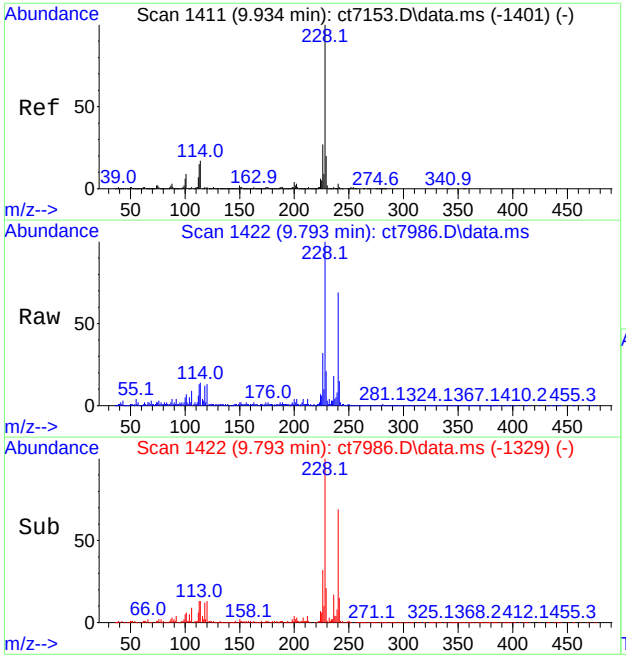


#86
Pyrene
Concen: 31.2844 ppm
RT: 8.370 min Scan# 1156
Delta R.T. -0.018 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:202 Resp: 1075976

Ion	Ratio	Lower	Upper
202	100		
200	22.2	0.0	52.3
203	17.9	0.0	47.9

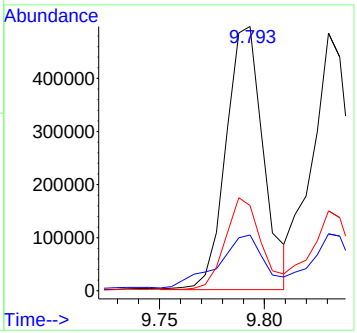


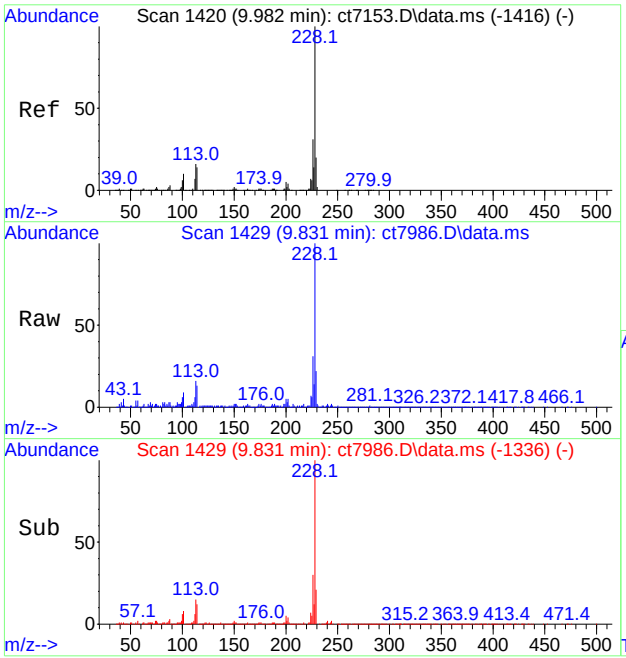


#89
Benzo[a]anthracene
Concen: 20.4546 ppm
RT: 9.793 min Scan# 1422
Delta R.T. 0.000 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:228 Resp: 616909

Ion	Ratio	Lower	Upper
228	100		
229	19.7	0.0	50.0
226	31.5	0.0	57.3

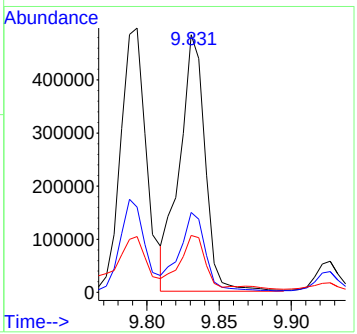


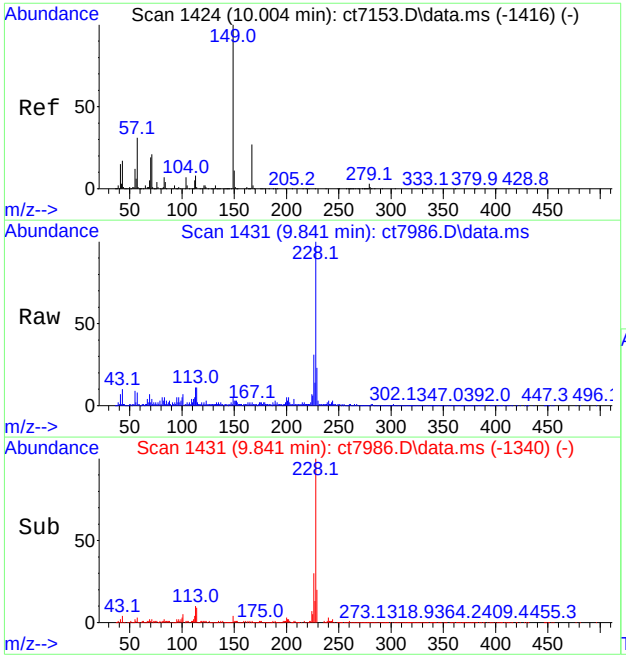


#91
Chrysene
Concen: 20.2374 ppm
RT: 9.831 min Scan# 1429
Delta R.T. -0.005 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:228 Resp: 598233

Ion	Ratio	Lower	Upper
228	100		
226	30.2	1.8	61.8
229	20.7	0.0	49.9

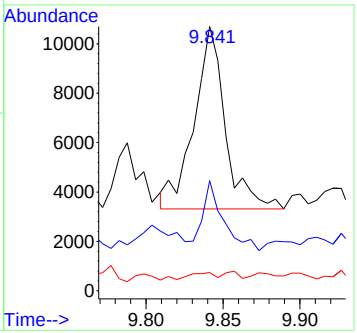


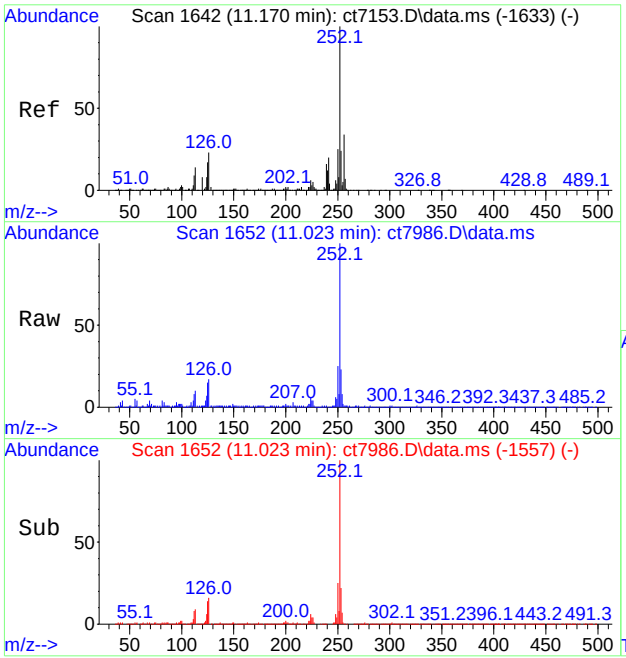


#92
bis(2-Ethylhexyl)phthalate
Concen: 1.9222 ppm
RT: 9.841 min Scan# 1431
Delta R.T. -0.015 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:149 Resp: 10409

Ion	Ratio	Lower	Upper
149	100		
167	32.0	0.0	57.0
279	3.2	0.0	33.4

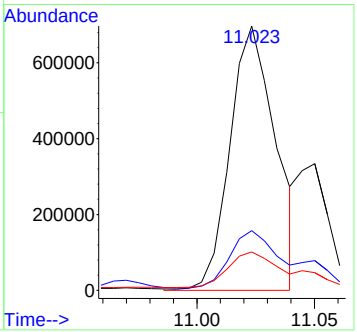


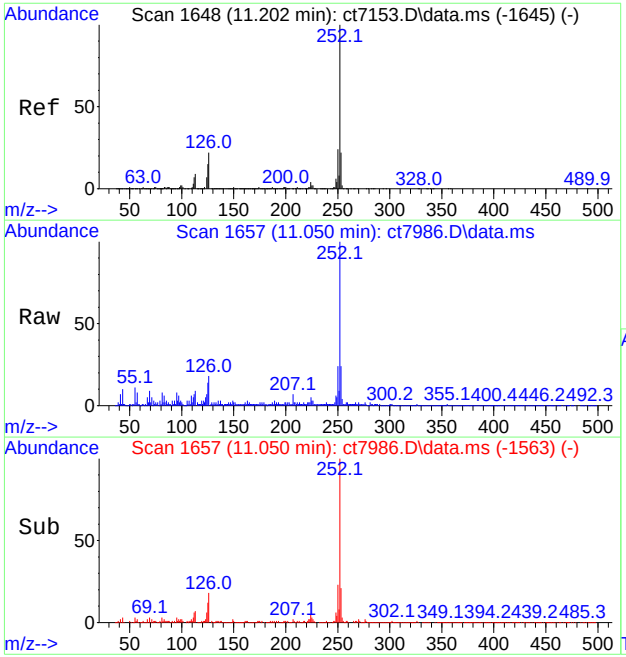


#95
Benzo[b]fluoranthene
Concen: 28.2784 ppm m
RT: 11.023 min Scan# 1652
Delta R.T. 0.006 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:252 Resp: 941680

Ion	Ratio	Lower	Upper
252	100		
253	22.6	0.0	53.9
125	14.5	0.0	45.9

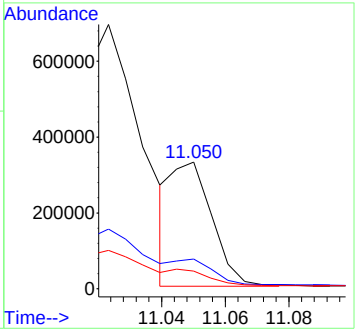


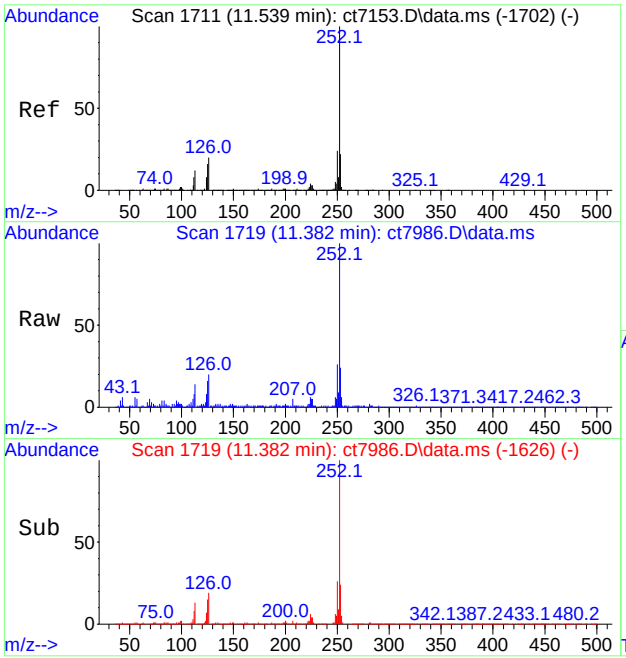


#96
Benzo[k]fluoranthene
Concen: 8.8779 ppm m
RT: 11.050 min Scan# 1657
Delta R.T. 0.001 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:252 Resp: 291625

Ion	Ratio	Lower	Upper
252	100		
253	23.5	0.0	51.8
125	14.0	0.0	43.8

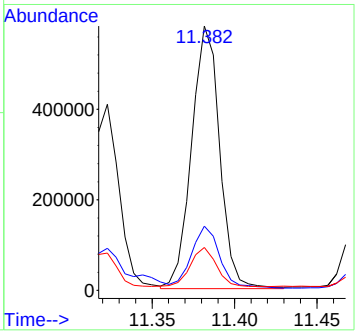


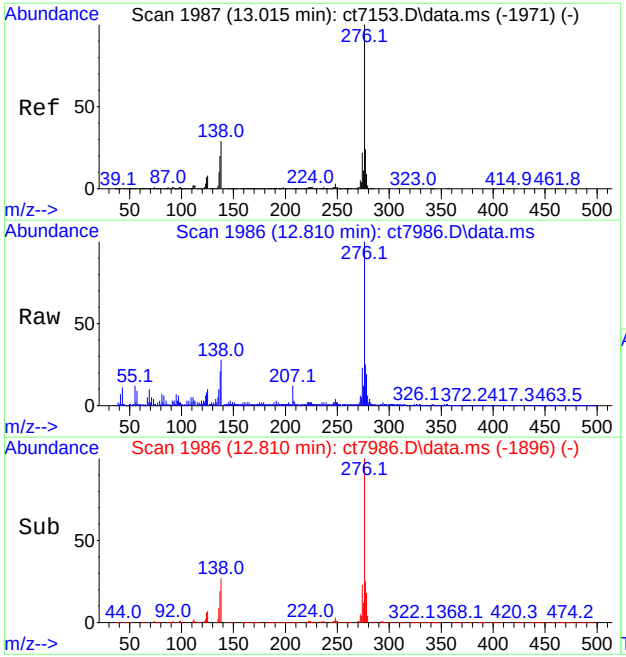


#97
Benzo[a]pyrene
Concen: 25.3850 ppm
RT: 11.382 min Scan# 1719
Delta R.T. -0.001 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:252 Resp: 689335

Ion	Ratio	Lower	Upper
252	100		
253	22.6	0.0	51.9
125	14.8	0.0	44.9

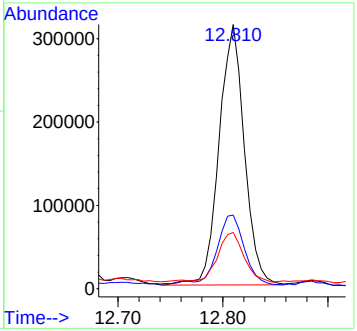


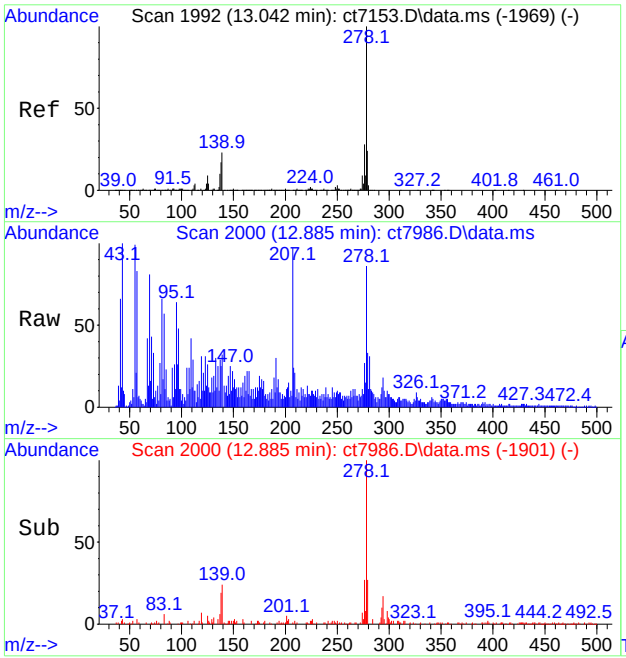


#98
Indeno[1,2,3-cd]pyrene
Concen: 14.9973 ppm
RT: 12.810 min Scan# 1986
Delta R.T. -0.020 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:276 Resp: 523044

Ion	Ratio	Lower	Upper
276	100		
138	26.6	0.0	59.6
137	18.8	0.0	50.8

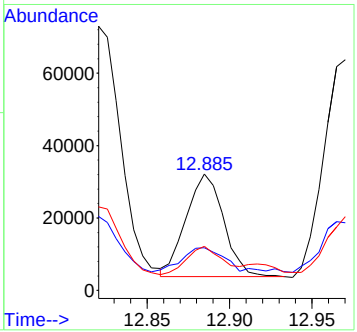


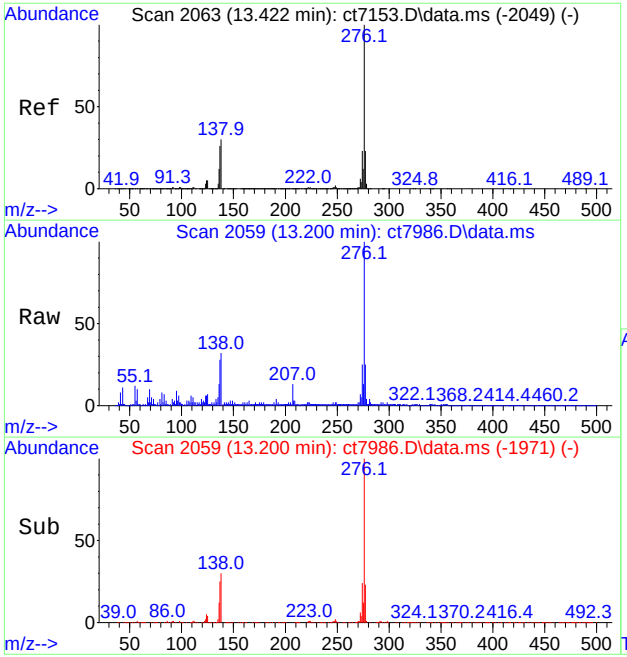


#100
Dibenz[a,h]anthracene
Concen: 1.5933 ppm
RT: 12.885 min Scan# 2000
Delta R.T. 0.028 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:278 Resp: 44770

Ion	Ratio	Lower	Upper
278	100		
139	23.5	0.0	54.0
279	27.4	0.0	54.5

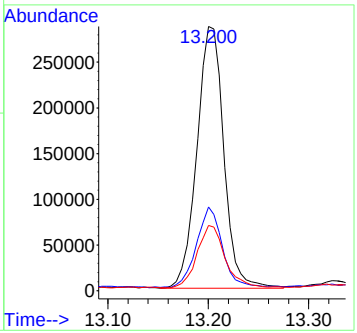




#102
Benzo[g,h,i]perylene
Concen: 19.8369 ppm
RT: 13.200 min Scan# 2059
Delta R.T. -0.032 min
Lab File: ct7986.D
Acq: 03 Jul 2024 04:40 pm

Tgt Ion:276 Resp: 533562

Ion	Ratio	Lower	Upper
276	100		
138	30.7	0.0	59.8
277	23.8	0.0	53.4



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7986.D
Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: ct7986.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.247	377	385	388	rBV	211145	154283	3.06%	0.245%
2	4.289	388	393	410	rVB	4231459	3086849	61.21%	4.897%
3	4.610	449	453	458	rVB	146097	103128	2.04%	0.164%
4	4.685	458	467	470	rBV	143653	152494	3.02%	0.242%
5	4.717	470	473	479	rVB	108687	100467	1.99%	0.159%
6	4.781	479	485	489	rBV2	63217	60974	1.21%	0.097%
7	4.947	511	516	520	rBV	2094383	1688032	33.47%	2.678%
8	4.979	520	522	527	rVB	133002	95360	1.89%	0.151%
9	5.348	587	591	599	rBV	402950	455027	9.02%	0.722%
10	5.450	600	610	622	rBV	3820872	3404255	67.50%	5.401%
11	5.616	635	641	643	rBV2	45345	65483	1.30%	0.104%
12	5.701	653	657	660	rBV	59055	72191	1.43%	0.115%
13	5.776	667	671	676	rBV3	115005	99257	1.97%	0.157%
14	5.905	688	695	700	rBV	121851	165451	3.28%	0.262%
15	5.969	700	707	710	rBV4	43646	77536	1.54%	0.123%
16	6.119	730	735	741	rBV	721508	691561	13.71%	1.097%
17	6.204	748	751	761	rBV3	93045	181949	3.61%	0.289%
18	6.402	780	788	791	rBV4	72022	118432	2.35%	0.188%
19	6.456	795	798	801	rBV3	70462	81517	1.62%	0.129%
20	6.648	828	834	837	rBV2	67027	71238	1.41%	0.113%
21	6.686	837	841	848	rVB2	104179	131156	2.60%	0.208%
22	6.739	848	851	855	rBV4	63785	77702	1.54%	0.123%
23	6.793	855	861	863	rBV	3276854	3230346	64.05%	5.125%
24	6.814	864	865	870	rVV	1354477	904634	17.94%	1.435%
25	6.867	870	875	879	rVV	510557	496439	9.84%	0.788%
26	6.905	879	882	889	rVB2	73196	94529	1.87%	0.150%
27	7.033	898	906	912	rBV2	88590	202844	4.02%	0.322%
28	7.097	915	918	921	rVV	83662	66493	1.32%	0.105%
29	7.135	921	925	931	rVB3	71036	93889	1.86%	0.149%
30	7.220	934	941	946	rVB3	65026	112276	2.23%	0.178%
31	7.285	946	953	955	rBV3	141639	216617	4.30%	0.344%
32	7.317	955	959	962	rVV2	297218	306734	6.08%	0.487%
33	7.365	962	968	972	rVV2	643504	866218	17.18%	1.374%
34	7.397	972	974	977	rVB	162646	138429	2.74%	0.220%
35	7.434	977	981	993	rVB	484857	777320	15.41%	1.233%
36	7.552	1000	1003	1005	rBV3	72151	83501	1.66%	0.132%
37	7.643	1013	1020	1023	rBV3	156742	216482	4.29%	0.343%
38	7.675	1023	1026	1033	rVB2	164211	201962	4.00%	0.320%
39	7.755	1033	1041	1044	rBV7	41187	103706	2.06%	0.165%
40	7.846	1054	1058	1060	rVV	90139	89363	1.77%	0.142%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7986.D
Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	7.873	1060	1063	1068	rVB3	101880	105206	2.09%	0.167%
42	7.926	1068	1073	1076	rBV	296320	338938	6.72%	0.538%
43	7.969	1077	1081	1084	rVV2	153441	206680	4.10%	0.328%
44	7.996	1084	1086	1088	rVV2	75259	60160	1.19%	0.095%
45	8.023	1088	1091	1097	rVB2	171963	216520	4.29%	0.344%
46	8.108	1102	1107	1113	rBV	2783399	2718673	53.91%	4.313%
47	8.178	1113	1120	1124	rBV5	171170	339238	6.73%	0.538%
48	8.215	1125	1127	1132	rVB	129727	140341	2.78%	0.223%
49	8.269	1134	1137	1146	rBV4	360778	577857	11.46%	0.917%
50	8.370	1150	1156	1160	rBV	2412676	2863190	56.77%	4.543%
51	8.402	1160	1162	1165	rVV3	94404	94389	1.87%	0.150%
52	8.445	1165	1170	1175	rVB3	170993	306840	6.08%	0.487%
53	8.515	1179	1183	1186	rBV2	151735	156786	3.11%	0.249%
54	8.552	1186	1190	1198	rVB	1920103	1898884	37.65%	3.013%
55	8.632	1198	1205	1209	rBV3	210558	371516	7.37%	0.589%
56	8.755	1220	1228	1233	rVB	409093	764831	15.17%	1.213%
57	8.804	1234	1237	1240	rBV4	66662	85218	1.69%	0.135%
58	8.836	1240	1243	1247	rVV	294735	330810	6.56%	0.525%
59	8.879	1247	1251	1262	rVB2	404633	562949	11.16%	0.893%
60	8.986	1267	1271	1275	rVV	242952	265095	5.26%	0.421%
61	9.023	1275	1278	1283	rVV2	187534	191277	3.79%	0.303%
62	9.210	1310	1313	1317	rBV6	75243	121523	2.41%	0.193%
63	9.269	1318	1324	1326	rBV4	95045	186889	3.71%	0.297%
64	9.365	1339	1342	1349	rVB	211133	260618	5.17%	0.413%
65	9.429	1349	1354	1361	rBV2	142521	253363	5.02%	0.402%
66	9.494	1361	1366	1370	rBV	361007	498776	9.89%	0.791%
67	9.526	1370	1372	1375	rVV	180724	192300	3.81%	0.305%
68	9.552	1375	1377	1380	rVV	204195	182252	3.61%	0.289%
69	9.579	1380	1382	1387	rVB2	135486	177150	3.51%	0.281%
70	9.622	1387	1390	1395	rBV	235236	221612	4.39%	0.352%
71	9.692	1398	1403	1409	rVV3	332664	478635	9.49%	0.759%
72	9.799	1415	1423	1427	rBV2	3076537	5043237	100.00%	8.001%
73	9.831	1427	1429	1440	rVB	1423731	1532767	30.39%	2.432%
74	9.927	1441	1447	1450	rBV3	234968	323858	6.42%	0.514%
75	9.954	1450	1452	1455	rBV3	113251	141676	2.81%	0.225%
76	10.087	1474	1477	1481	rBV3	143130	185751	3.68%	0.295%
77	10.232	1501	1504	1507	rBV2	173088	197290	3.91%	0.313%
78	10.280	1508	1513	1516	rVV	339276	435304	8.63%	0.691%
79	10.317	1518	1520	1524	rVV	137150	156803	3.11%	0.249%
80	10.387	1531	1533	1537	rVB3	178605	163743	3.25%	0.260%
81	10.430	1537	1541	1543	rBV3	192809	260167	5.16%	0.413%
82	10.472	1543	1549	1555	rVB4	368972	847174	16.80%	1.344%
83	10.644	1578	1581	1587	rBV3	242708	394821	7.83%	0.626%
84	10.825	1613	1615	1618	rBV3	120797	142921	2.83%	0.227%
85	10.981	1641	1644	1647	rVB3	195951	178734	3.54%	0.284%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7986.D
Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	11.023	1647	1652	1662	rBV	1910447	3567007	70.73%	5.659%
87	11.130	1669	1672	1676	rVB	421025	422750	8.38%	0.671%
88	11.184	1678	1682	1685	rBV	538377	577777	11.46%	0.917%
89	11.216	1685	1688	1692	rBV2	342007	435767	8.64%	0.691%
90	11.323	1703	1708	1715	rBV	1152533	1400185	27.76%	2.221%
91	11.382	1715	1719	1726	rBV	1581084	1853905	36.76%	2.941%
92	11.446	1726	1731	1735	rBV	2652595	3371678	66.86%	5.349%
93	11.975	1825	1830	1835	rVB2	576427	868005	17.21%	1.377%
94	12.104	1851	1854	1861	rVB2	337476	580209	11.50%	0.921%
95	12.500	1925	1928	1945	rVB8	351077	778445	15.44%	1.235%
96	12.810	1980	1986	1997	rVB2	861448	1499373	29.73%	2.379%
97	12.965	2011	2015	2019	rBV2	265296	406787	8.07%	0.645%
98	13.018	2021	2025	2030	rVB5	322607	492201	9.76%	0.781%
99	13.200	2053	2059	2068	rBV	787999	1409516	27.95%	2.236%
100	13.355	2083	2088	2095	rBV4	442483	857837	17.01%	1.361%

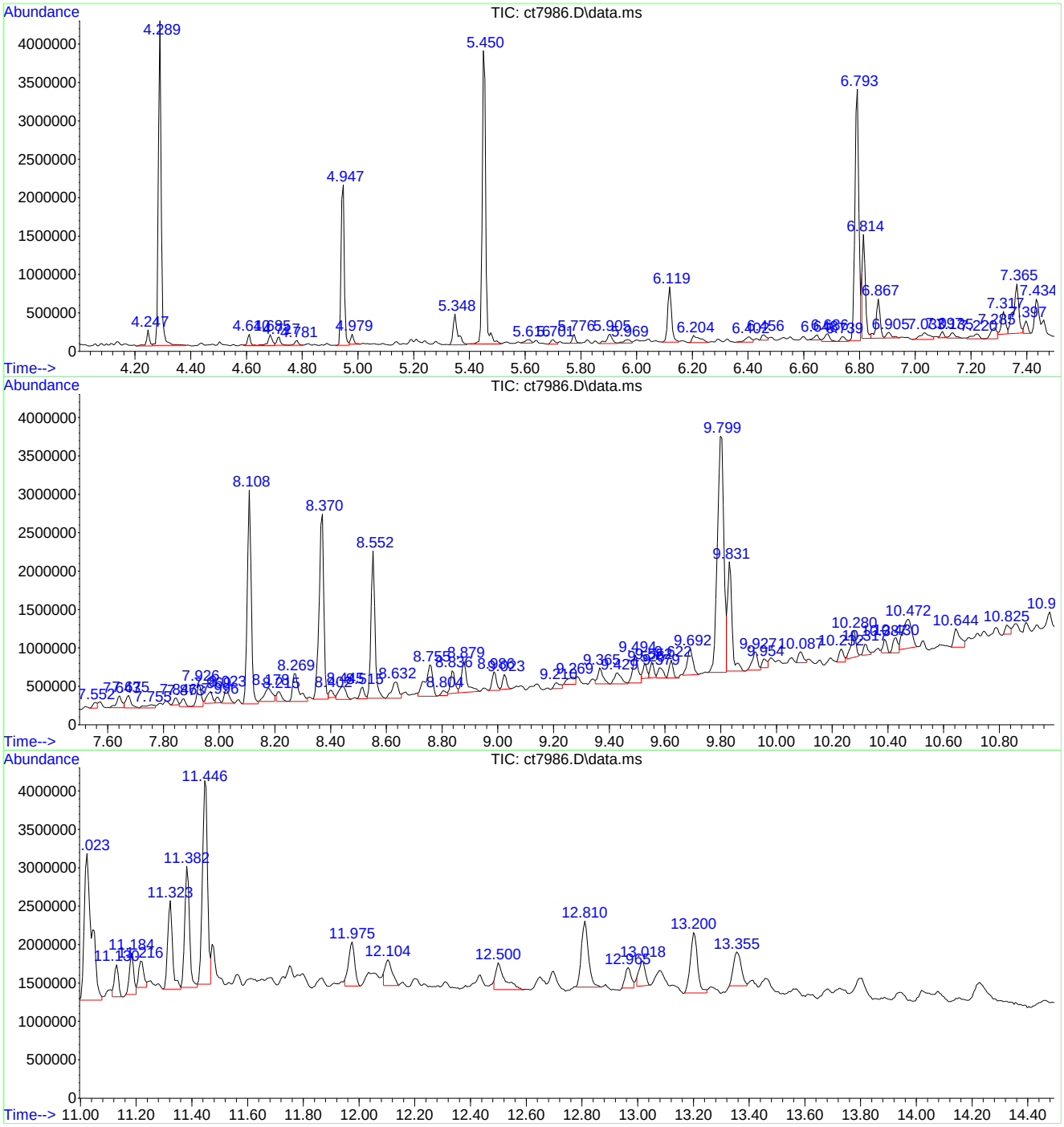
Sum of corrected areas: 63030328

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7986.D
Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7986.D
Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

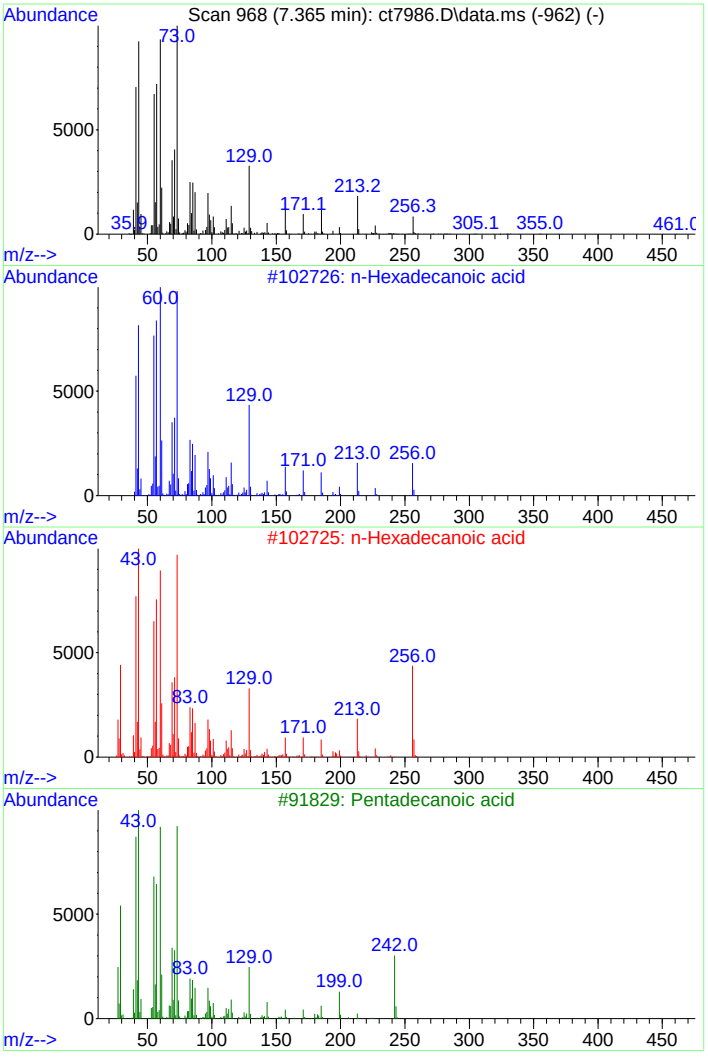
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

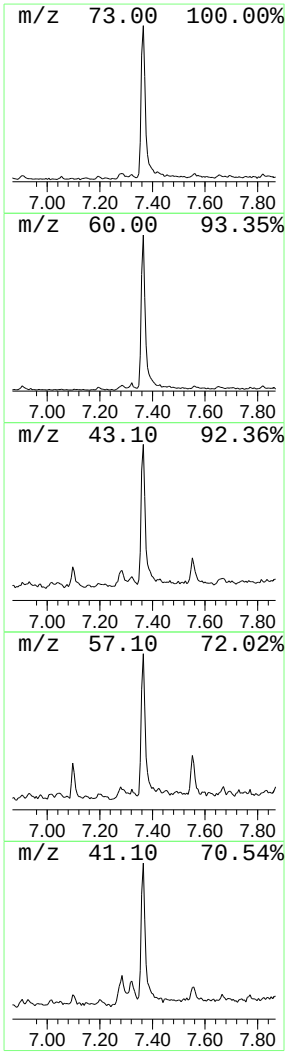
****

Peak Number 1 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.365	10.73 ppm	866218	Phenanthrene-d10b	6.793

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	90
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	87





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7986.D
Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

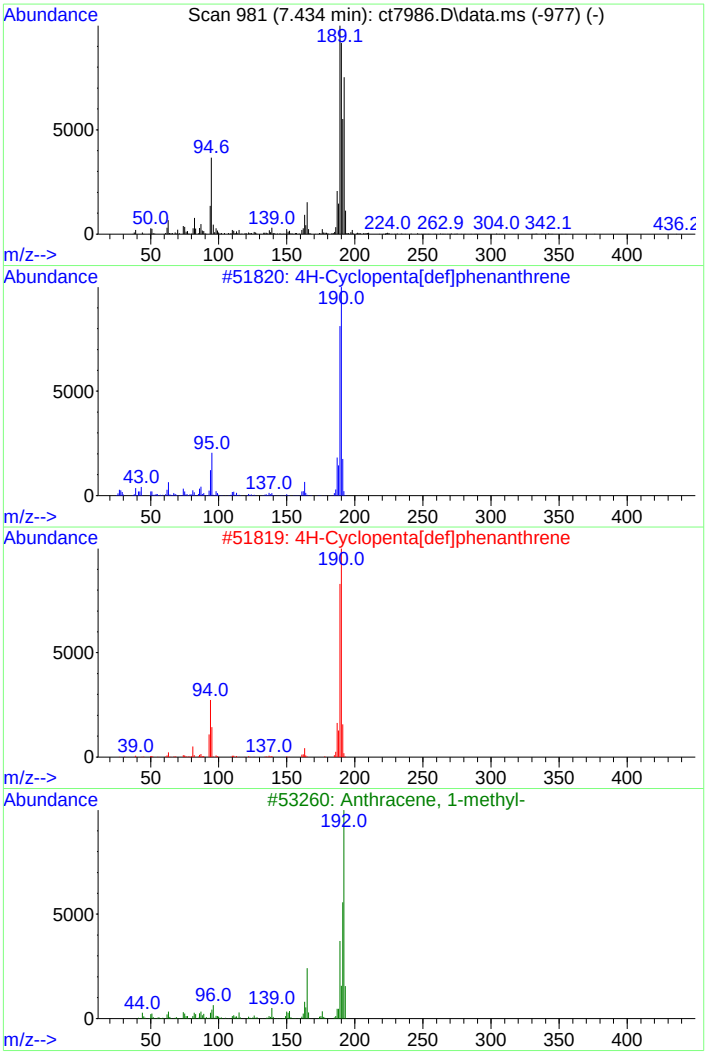
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

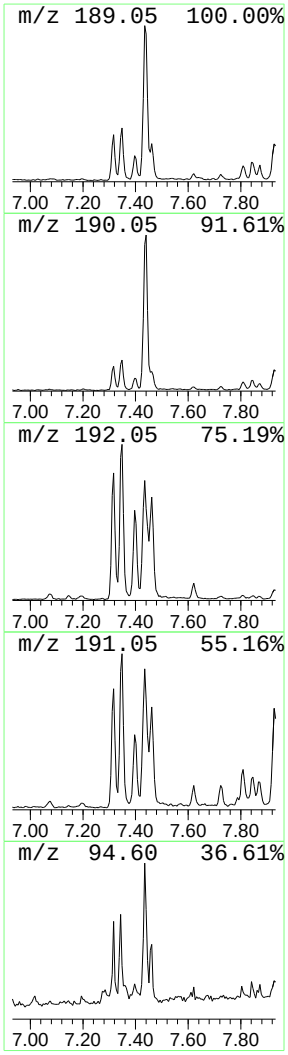
****

Peak Number 2 unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.434	9.63 ppm	777320	Phenanthrene-d10b	6.793

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	50
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	49
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	38
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	38
5	3-Bromo-2-furoic acid	190	C5H3BrO3	014903-90-3	35





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7986.D
Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

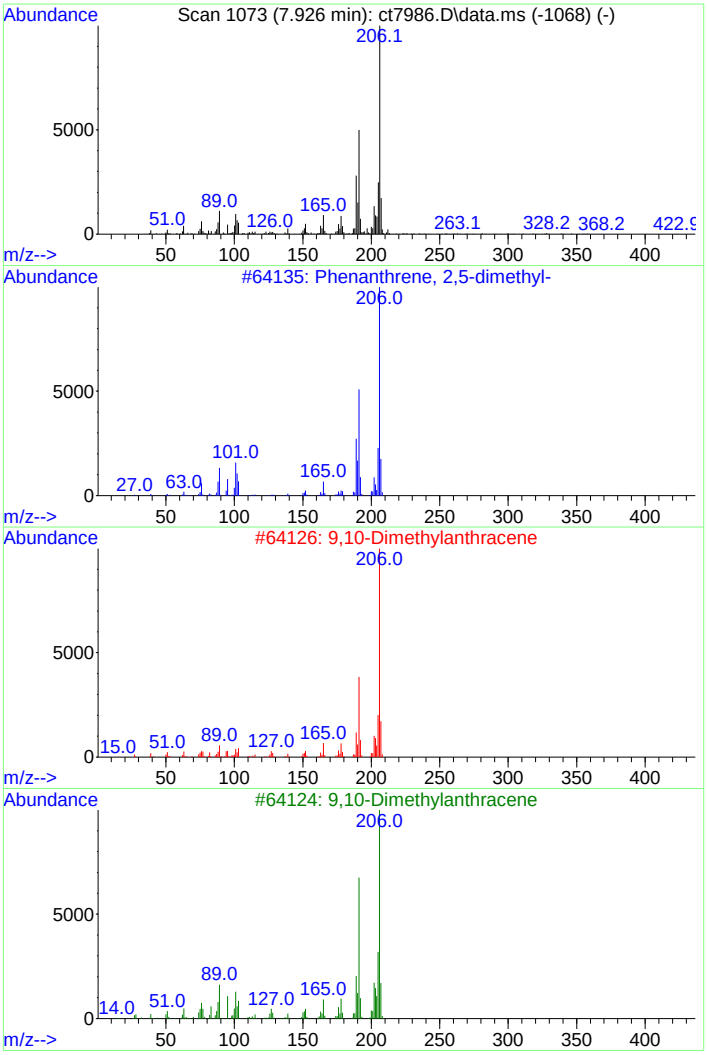
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

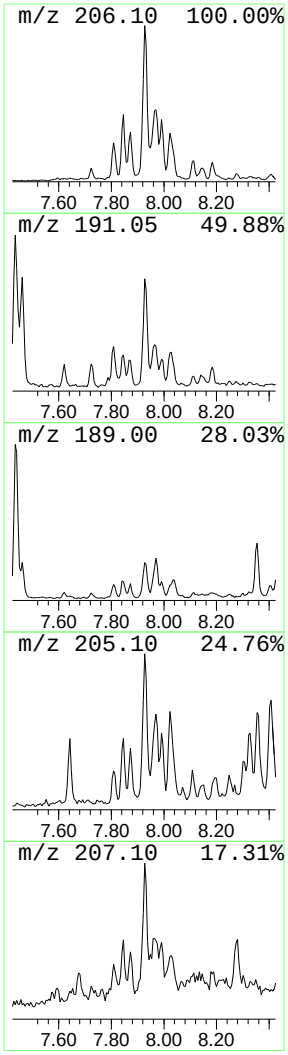
****

Peak Number 3 Phenanthrene, dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.926	4.20 ppm	338938	Phenanthrene-d10b	6.793

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	95
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	94
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
5	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7986.D
Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

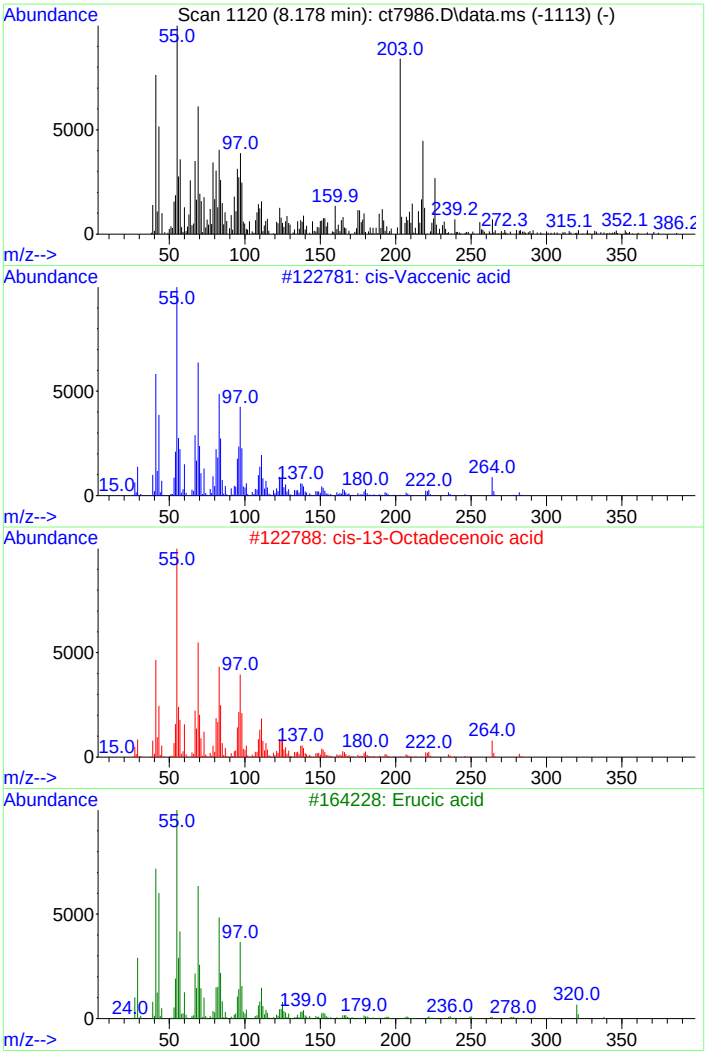
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

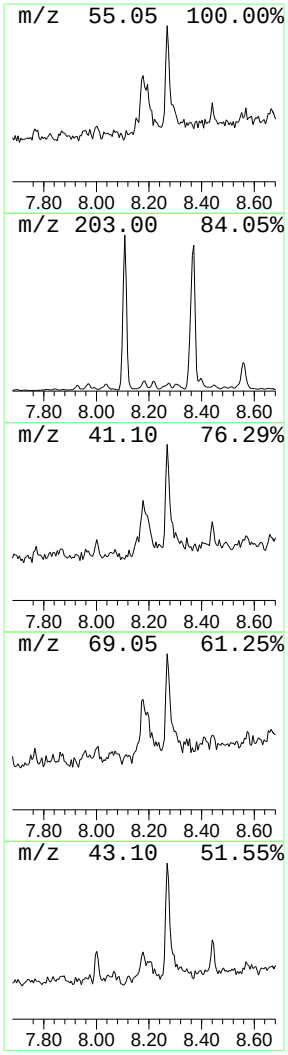
****

Peak Number 4 cis-Vaccenic acid Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.178	4.20 ppm	339238	Phenanthrene-d10b	6.793

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	cis-Vaccenic acid	282	C18H34O2	000506-17-2	87
2	cis-13-Octadecenoic acid	282	C18H34O2	013126-39-1	81
3	Erucic acid	338	C22H42O2	000112-86-7	80
4	trans-13-Octadecenoic acid	282	C18H34O2	000693-71-0	80
5	6-Octadecenoic acid	282	C18H34O2	1000336-66-8	60





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7986.D
Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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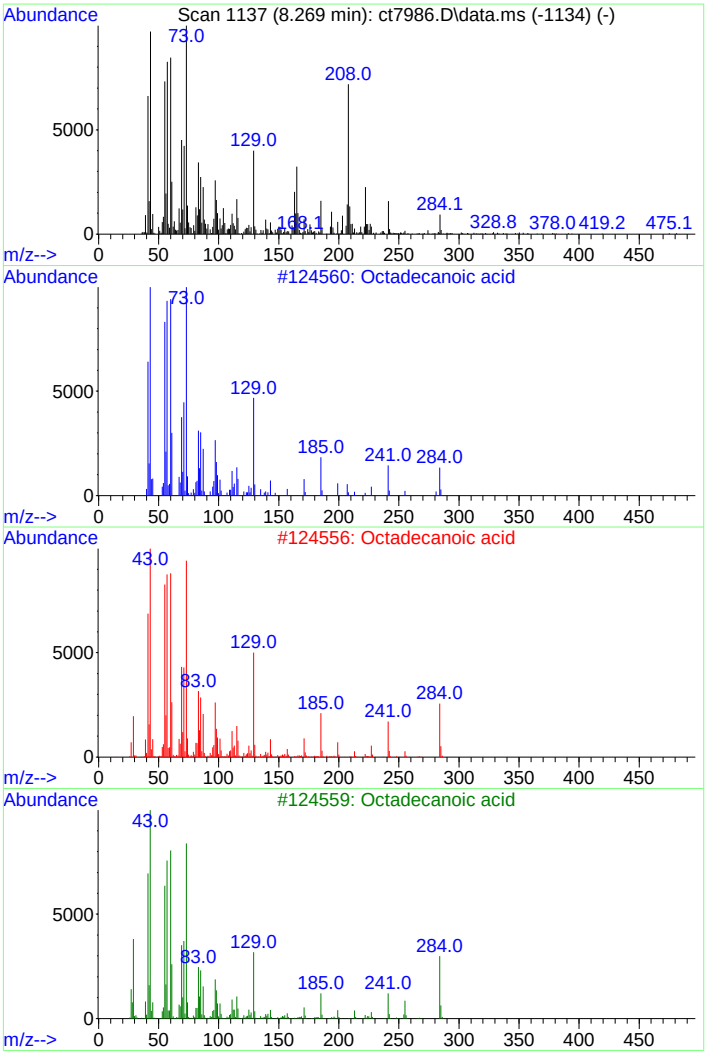
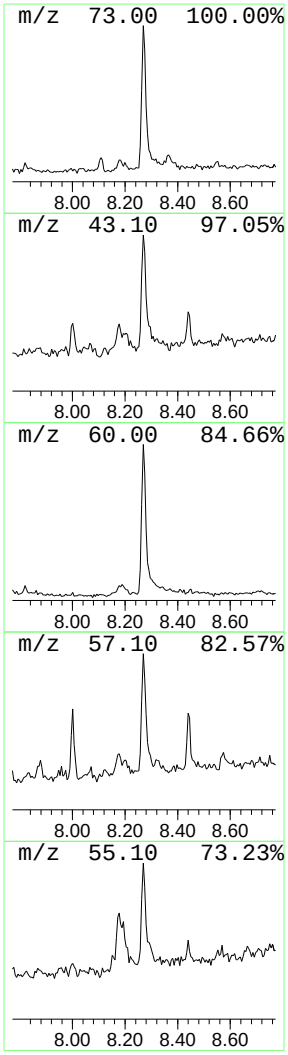
Peak Number 5 Octadecanoic acid Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.269	7.16 ppm	577857	Phenanthrene-d10b	6.793

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	98
2	Octadecanoic acid	284	C18H36O2	000057-11-4	97
3	Octadecanoic acid	284	C18H36O2	000057-11-4	91
4	Octadecanoic acid	284	C18H36O2	000057-11-4	78
5	n-Decanoic acid	172	C10H20O2	000334-48-5	50





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Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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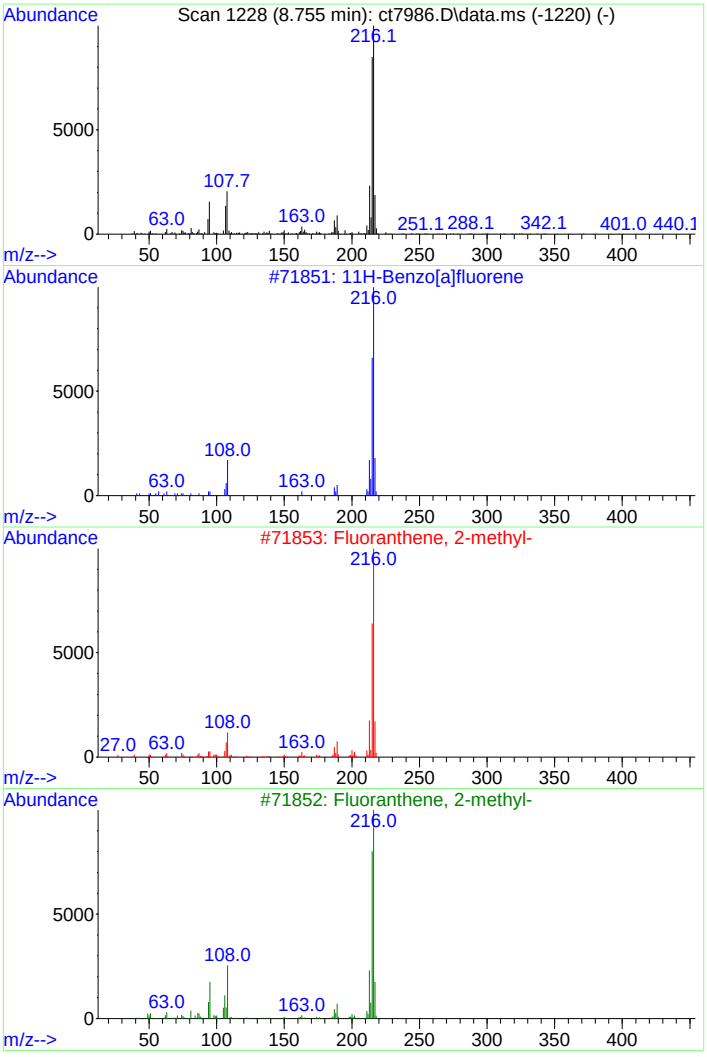
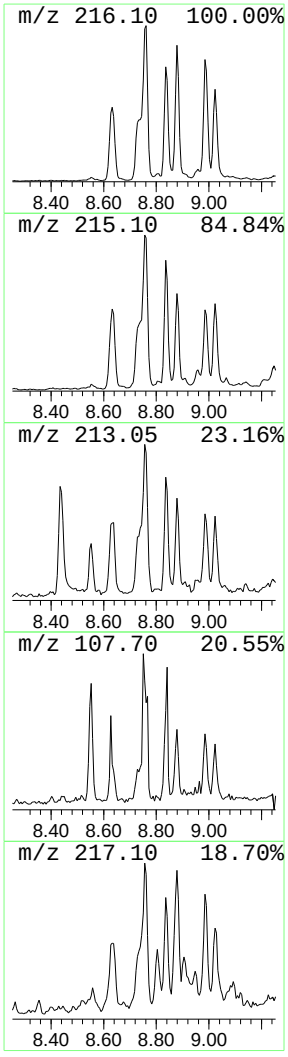
Peak Number 6 Fluoranthene, methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.755	6.07 ppm	764831	Chrysene-d12	9.804

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	92





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Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

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TIC Library : C:\Database\NIST08.L
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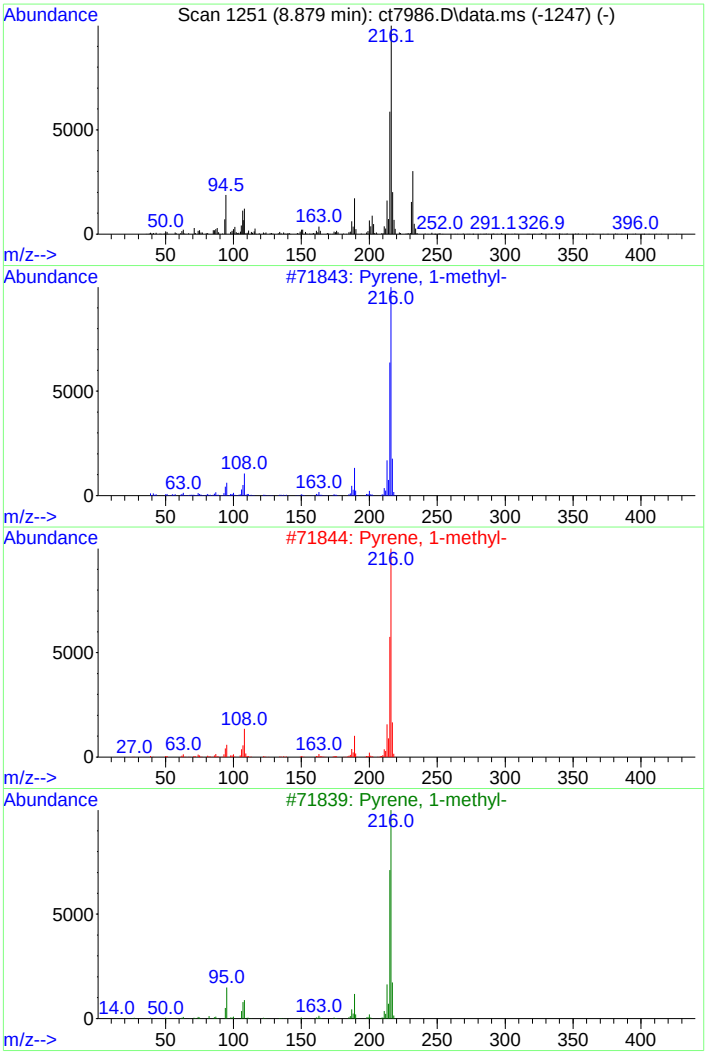
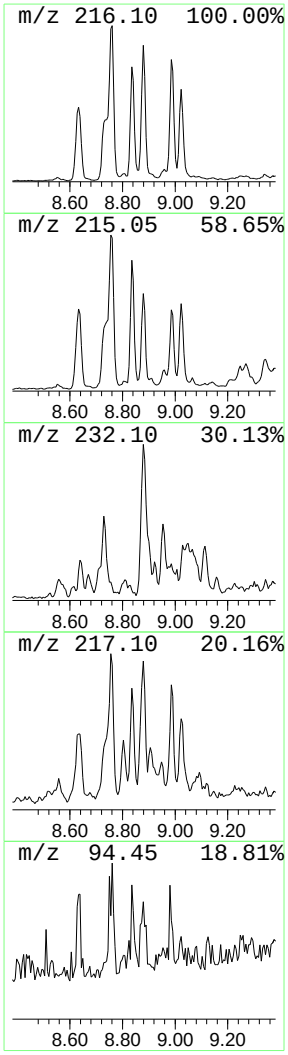
Peak Number 7 Pyrene, methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.879	4.46 ppm	562949	Chrysene-d12	9.804

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93





Library Search Compound Report

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Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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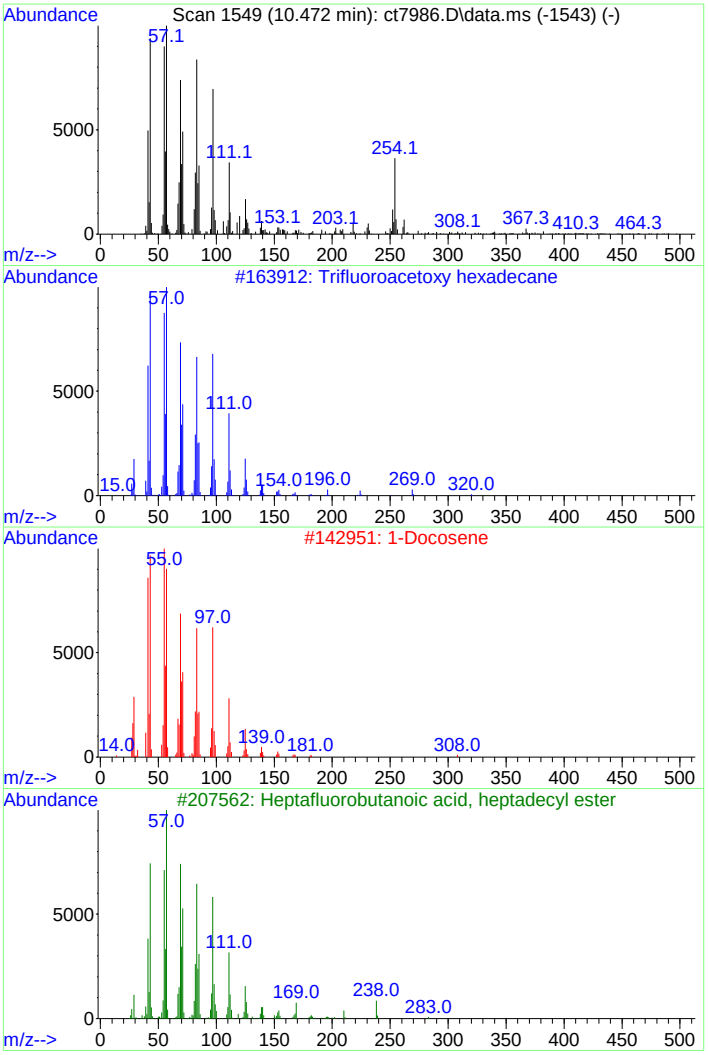
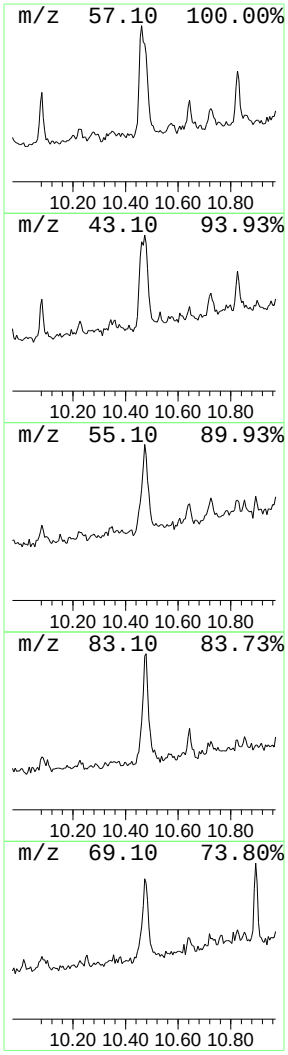
Peak Number 8 Trifluoroacetoxy hexadecane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.472	6.72 ppm	847174	Chrysene-d12a	9.804

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	93
2	1-Docosene	308	C22H44	001599-67-3	91
3	Heptafluorobutanoic acid, heptad...	452	C21H35F7O2	1000282-97-3	90
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	90
5	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	90





Library Search Compound Report

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Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
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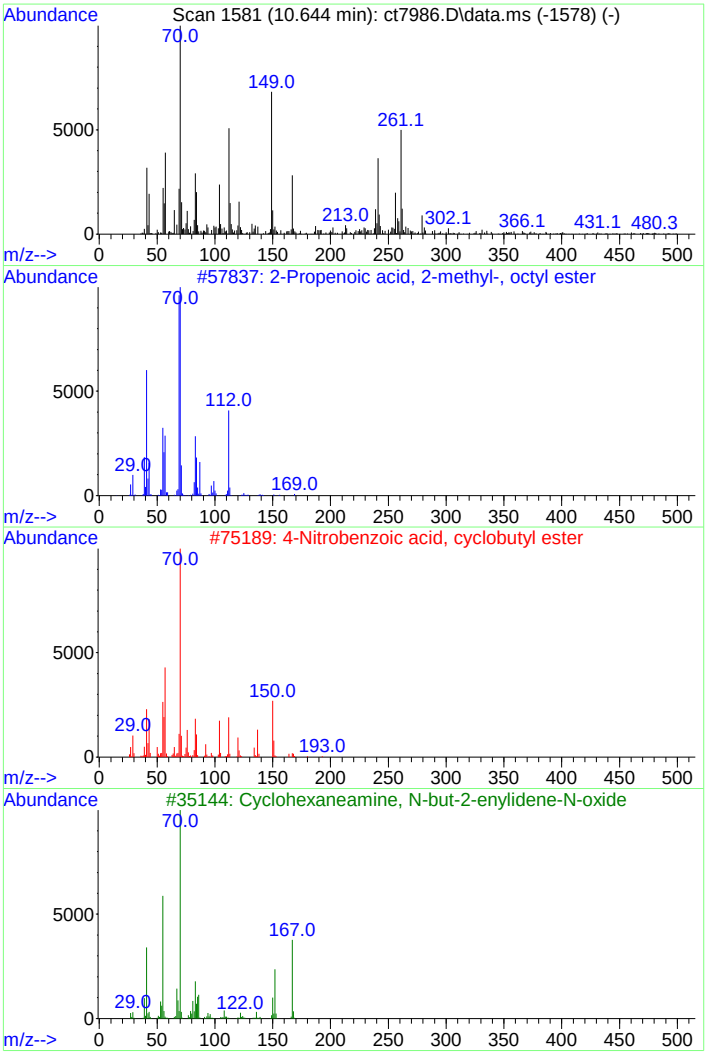
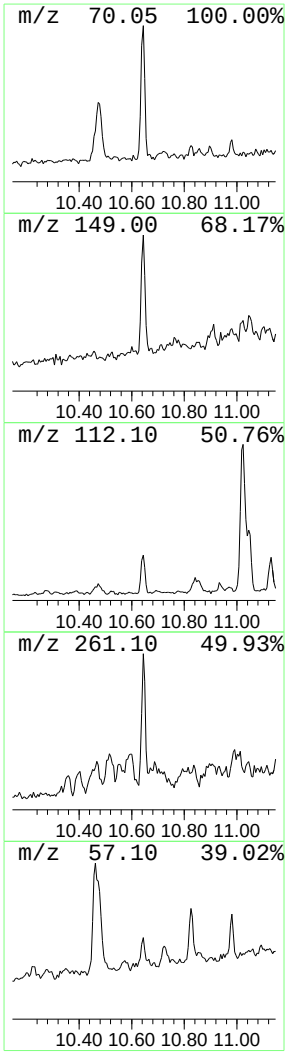
Peak Number 9 unknown Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.644	4.68 ppm	394821	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propenoic acid, 2-methyl-, oct...	198	C12H22O2	002157-01-9	25
2	4-Nitrobenzoic acid, cyclobutyl ...	221	C11H11NO4	070335-00-1	12
3	Cyclohexaneamine, N-but-2-enylid...	167	C10H17NO	068048-01-1	12
4	Bromoacetic acid, 2-ethylhexyl e...	250	C10H19BrO2	068144-73-0	12
5	Cyclohexylamine, N-methyl-4,4-di...	141	C9H19N	045815-91-6	10





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Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
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Peak Number 10 unknown PAH Substance Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.130	5.02 ppm	422750	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
2	Benzo[e]pyrene	252	C20H12	000192-97-2	94
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
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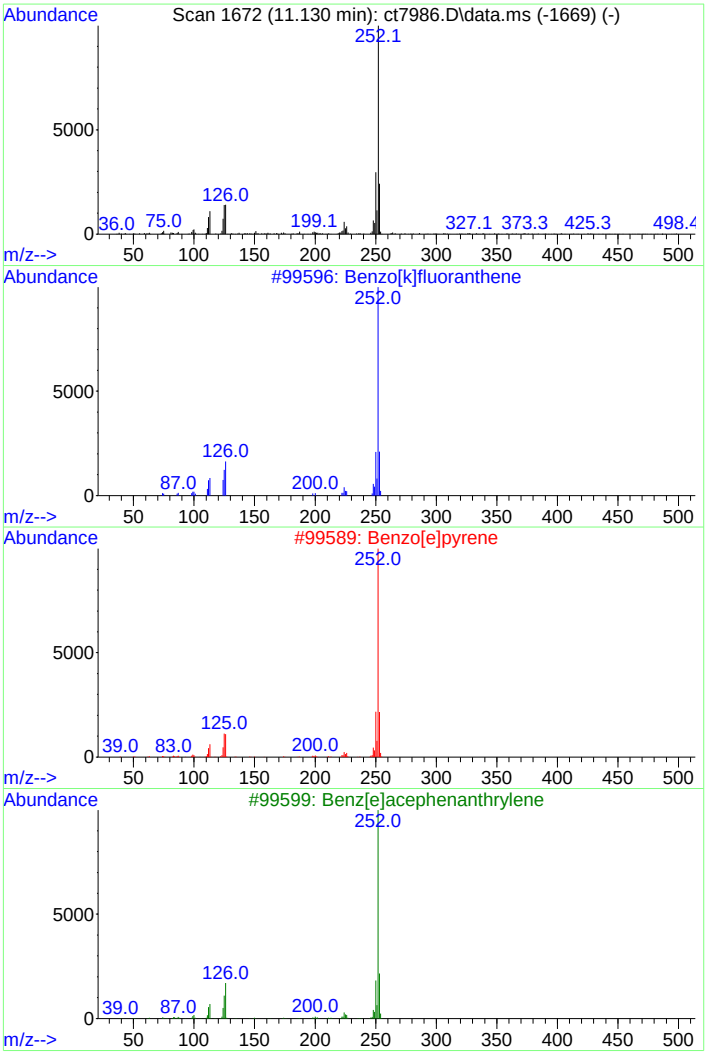

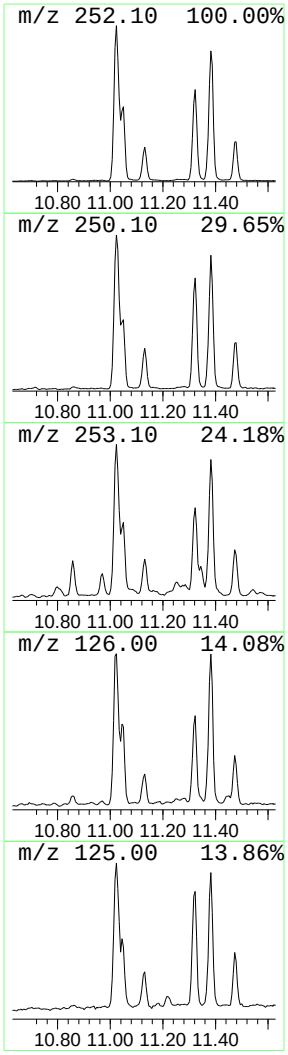

Library Search Compound Report

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Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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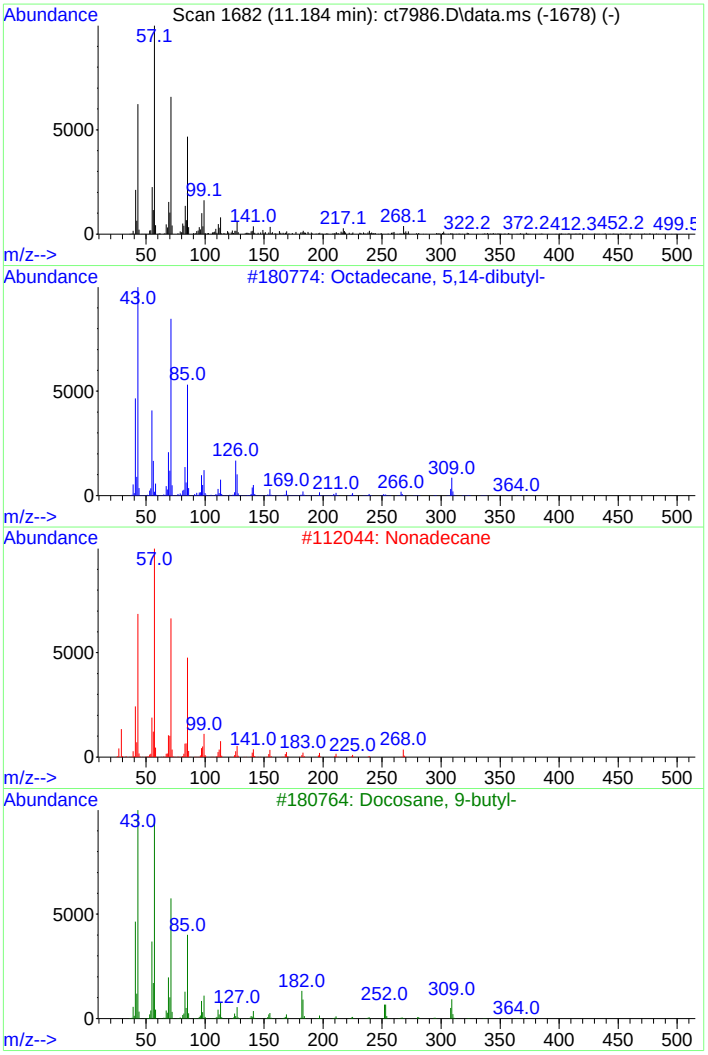
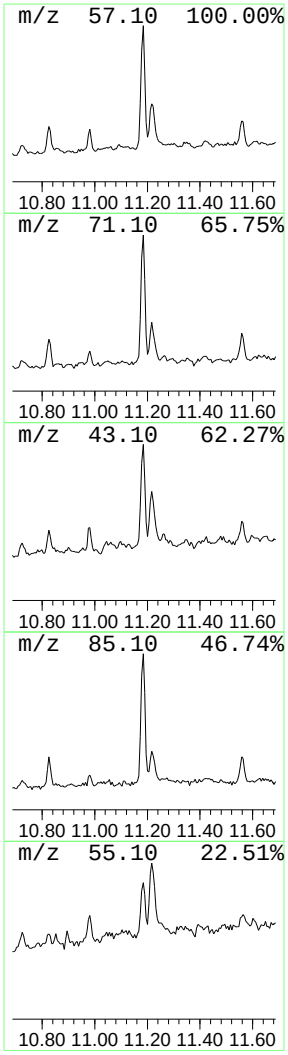
Peak Number 11 alkane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.184	6.85 ppm	577777	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane, 5,14-dibutyl-	366	C26H54	055282-13-8	93
2	Nonadecane	268	C19H40	000629-92-5	91
3	Docosane, 9-butyl-	366	C26H54	055282-14-9	91
4	Docosane, 11-butyl-	366	C26H54	013475-76-8	89
5	Heneicosane	296	C21H44	000629-94-7	87





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Operator : karimam
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Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
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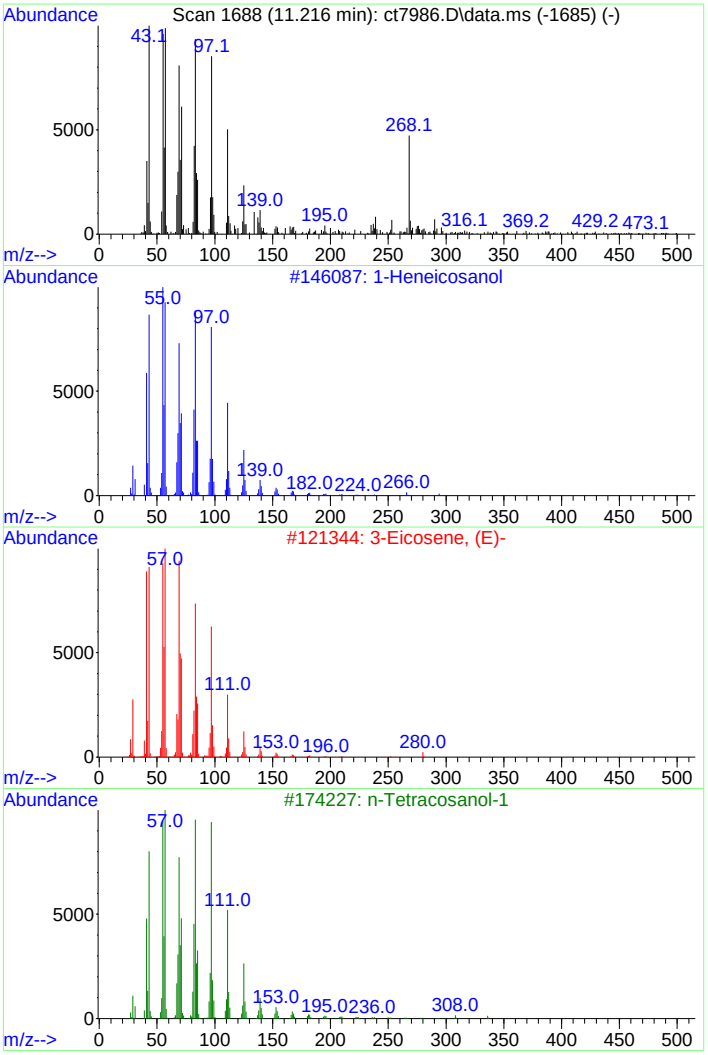
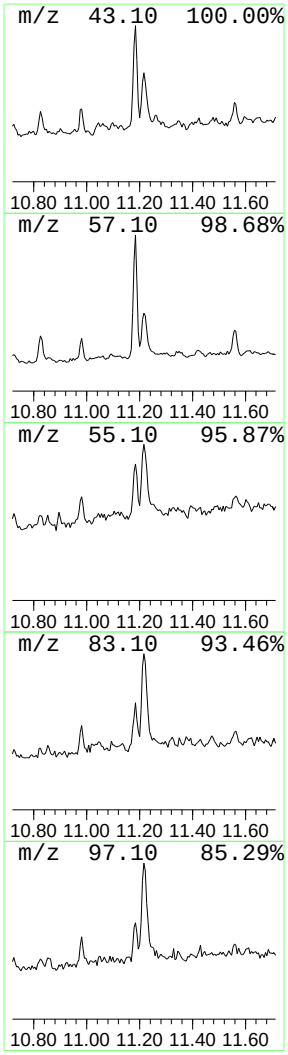
Peak Number 12 Heneicosanol Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.216	5.17 ppm	435767	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	91
2	3-Eicosene, (E)-	280	C20H40	074685-33-9	91
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	90
4	1-Docosene	308	C22H44	001599-67-3	87
5	1-Heptacosanol	396	C27H56O	002004-39-9	87





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Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
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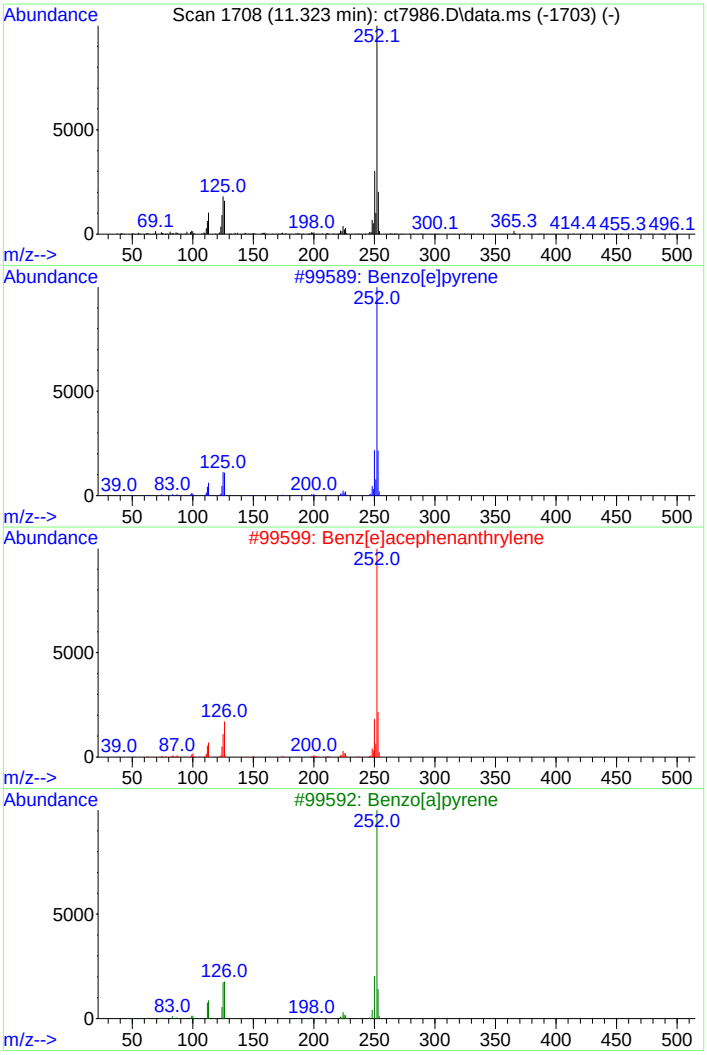
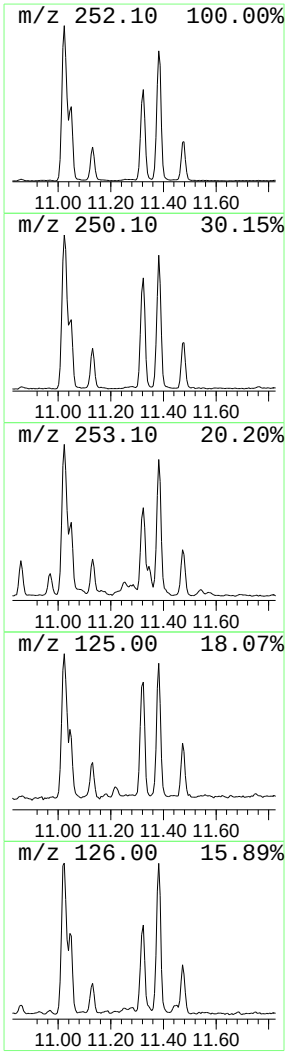
Peak Number 13 unknown PAH Substance Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.323	16.61 ppm	1400190	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
3	Benzo[a]pyrene	252	C20H12	000050-32-8	93
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	91
5	Perylene	252	C20H12	000198-55-0	91





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ALS Vial : 20 Sample Multiplier: 1

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TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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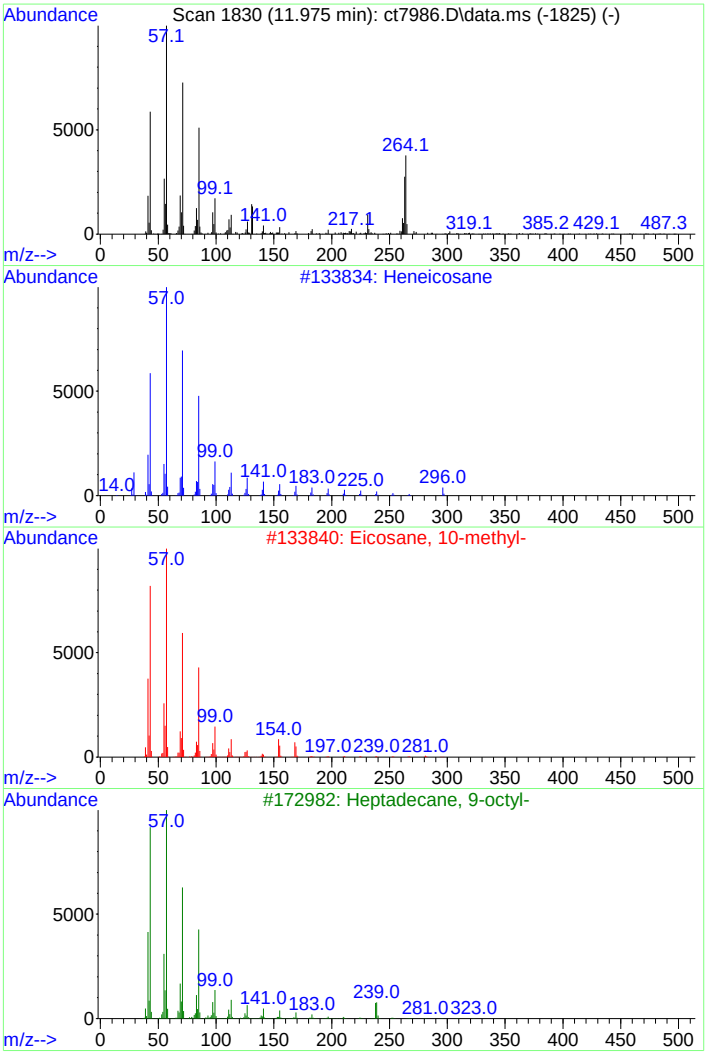
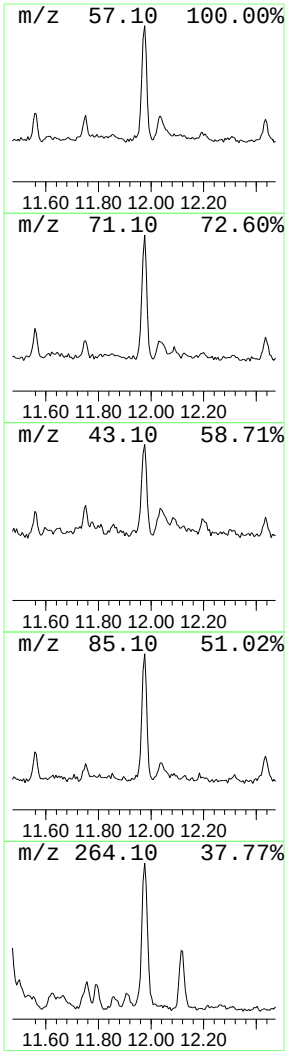
Peak Number 14 alkane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.975	10.30 ppm	868005	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	89
2	Eicosane, 10-methyl-	296	C21H44	054833-23-7	89
3	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	89
4	2-Bromo dodecane	248	C12H25Br	013187-99-0	64
5	Octacosane	394	C28H58	000630-02-4	50





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ALS Vial : 20 Sample Multiplier: 1

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TIC Library : C:\Database\NIST08.L
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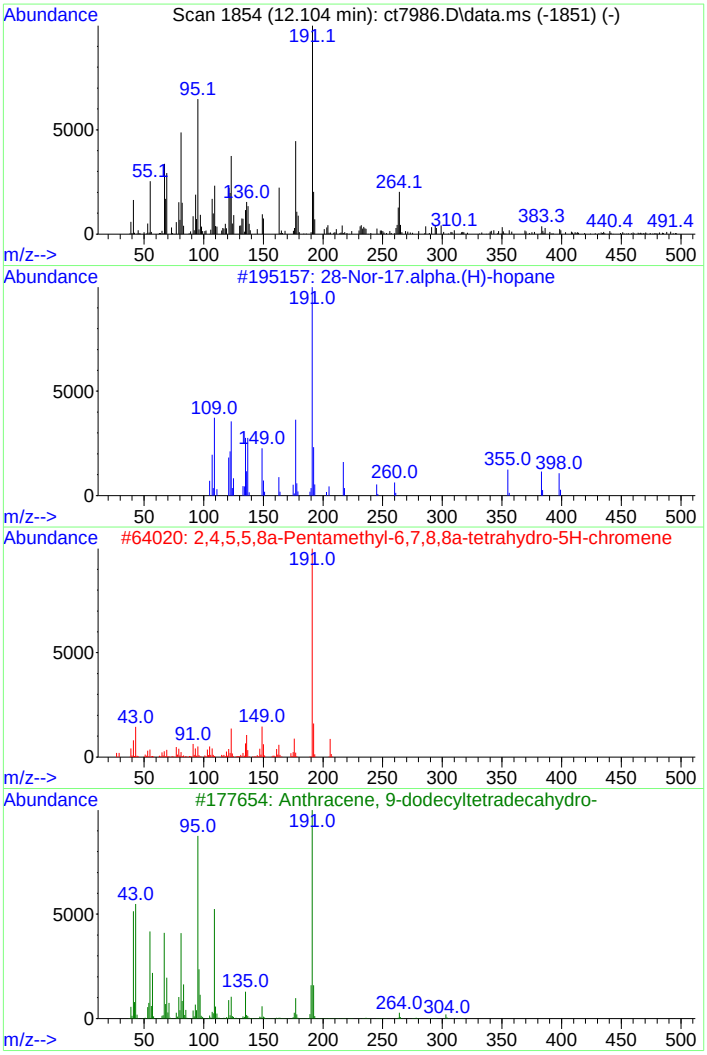
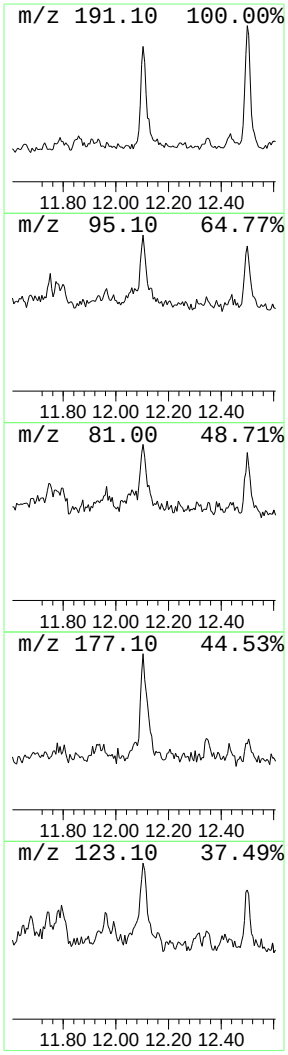
Peak Number 15 unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.104	6.88 ppm	580209	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	28-Nor-17.alpha.(H)-hopane	398	C29H50	053584-60-4	53
2	2,4,5,5,8a-Pentamethyl-6,7,8,8a-...	206	C14H22O	1000195-40-9	38
3	Anthracene, 9-dodecyltetradecahy...	360	C26H48	055401-75-7	38
4	(3-Cyano-6-ethyl-5-methyl-pyridi...	264	C13H16N2O2S	1000300-45-4	30
5	3,4-Dimethoxy-N,N-diethyl cinnamide	263	C15H21NO3	185410-48-4	27





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7986.D
Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

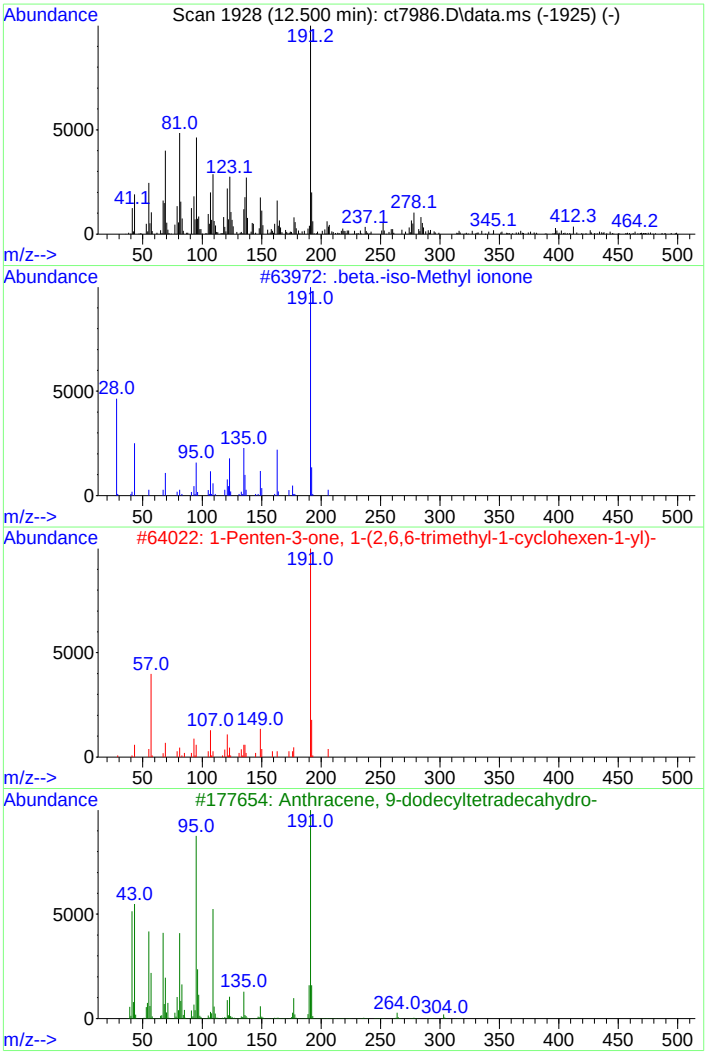
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

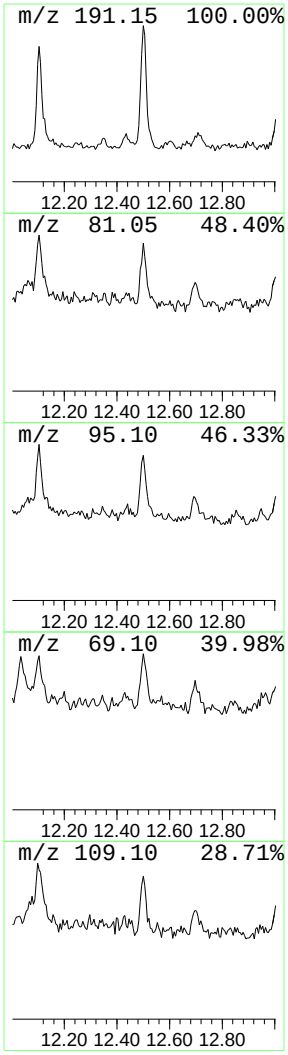
****

Peak Number 16 unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.500	9.24 ppm	778445	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-iso-Methyl ionone	206	C14H22O	1000285-40-2	76
2	1-Penten-3-one, 1-(2,6,6-trimeth...	206	C14H22O	000127-43-5	43
3	Anthracene, 9-dodecyltetradecahy...	360	C26H48	055401-75-7	40
4	2,4,5,5,8a-Pentamethyl-6,7,8,8a-...	206	C14H22O	1000195-40-9	37
5	5-(7a-Isopropenyl-4,5-dimethyl-o...	290	C20H34O	1000193-54-0	30





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7986.D
Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

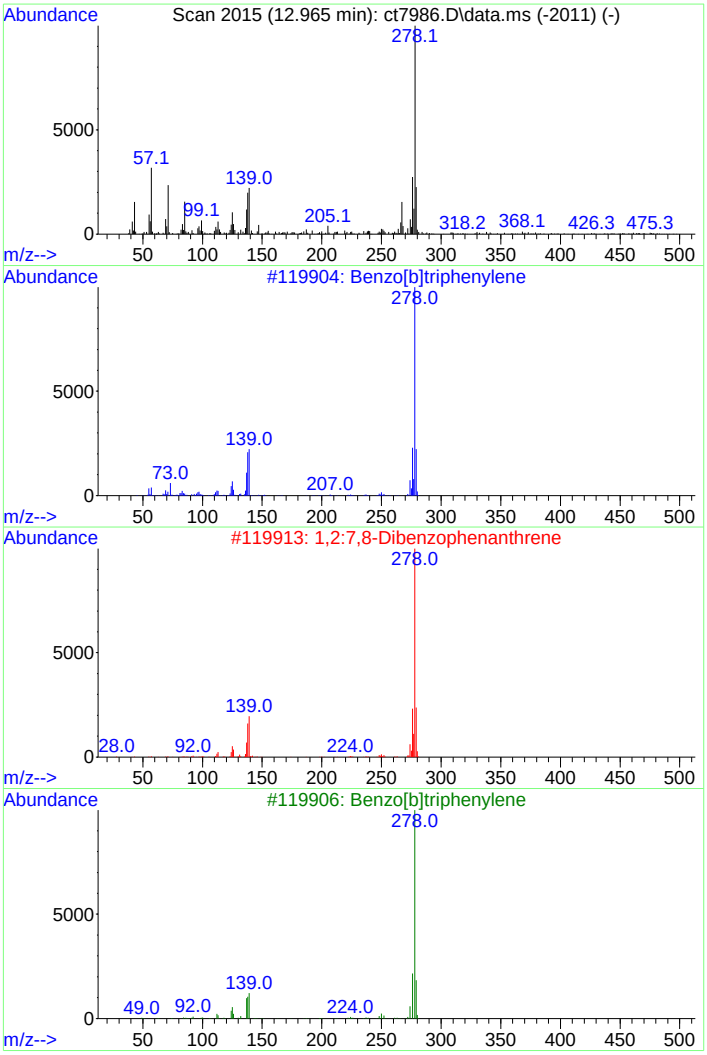
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

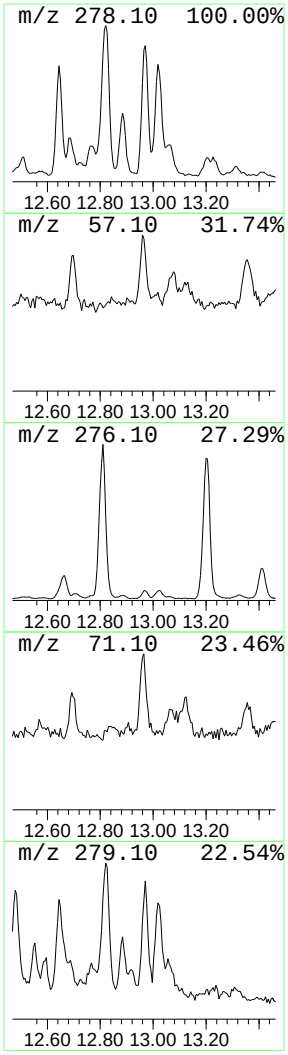
****

Peak Number 17 Benzo[b]triphenylene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.965	4.83 ppm	406787	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
2	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	93
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	92
4	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	90
5	Benzo[b]triphenylene	278	C22H14	000215-58-7	89





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7986.D
Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

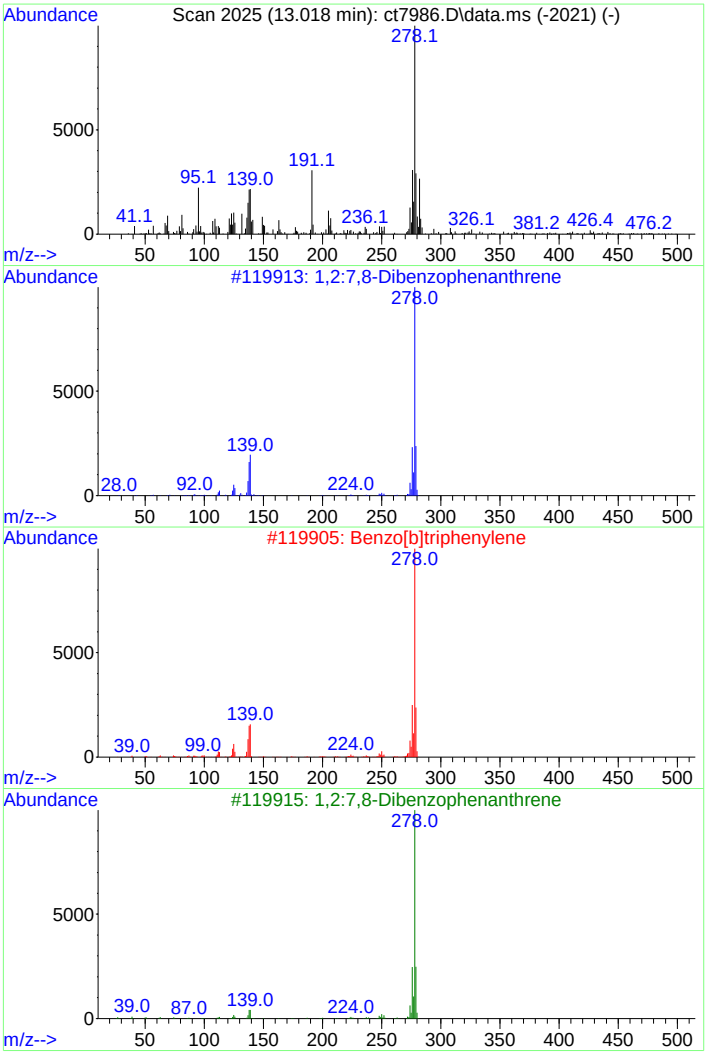
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

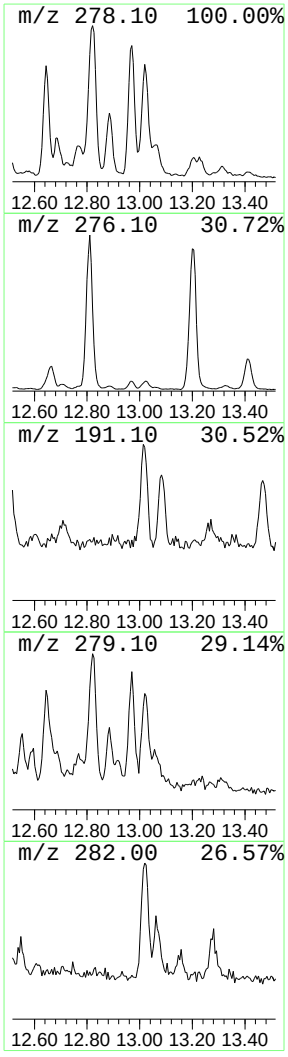
****

Peak Number 18 Dibenzophenanthrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.018	5.84 ppm	492201	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	91
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	90
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	90
4	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	78
5	Pentaphene	278	C22H14	000222-93-5	70





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7986.D
Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

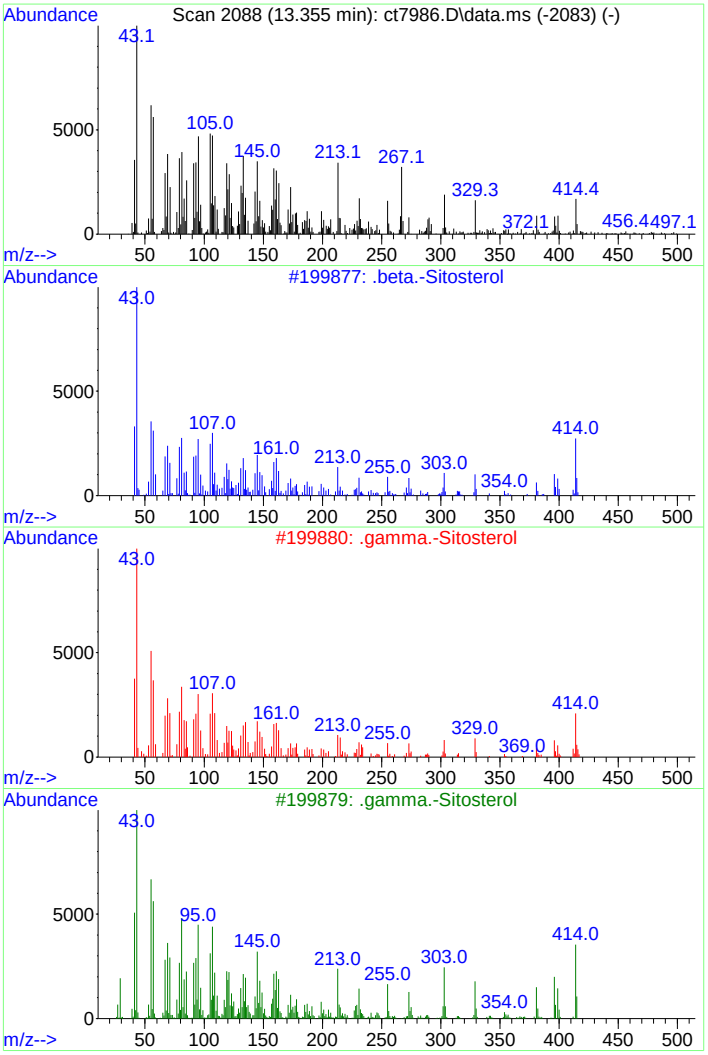
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

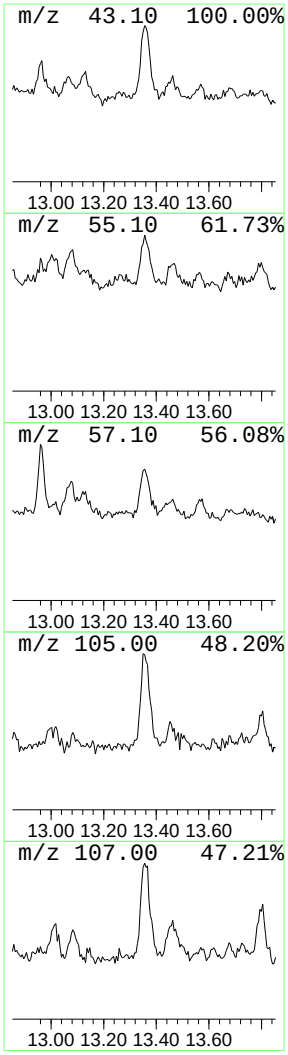
****

Peak Number 19 .beta.-Sitosterol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.355	10.18 ppm	857837	Perylene-d12	11.451

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Sitosterol	414	C29H50O	000083-46-5	90
2	.gamma.-Sitosterol	414	C29H50O	000083-47-6	89
3	.gamma.-Sitosterol	414	C29H50O	000083-47-6	49
4	Isocholesteryl methyl ether	400	C28H48O	029944-53-4	38
5	.beta.-Sitosterol	414	C29H50O	000083-46-5	38





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7986.D
Acq On : 03 Jul 2024 04:40 pm
Operator : karimam
Sample : jd91339-6
Misc : op55800,ect375,30.5,,,1,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
n-Hexadecanoic ...	7.365	10.7	ppm	866218	8	6.793	3230350	40.0
unknown	7.434	9.6	ppm	777320	8	6.793	3230350	40.0
Phenanthrene, d...	7.926	4.2	ppm	338938	8	6.793	3230350	40.0
cis-Vaccenic acid	8.178	4.2	ppm	339238	8	6.793	3230350	40.0
Octadecanoic acid	8.269	7.2	ppm	577857	8	6.793	3230350	40.0
Fluoranthene, m...	8.755	6.1	ppm	764831	9	9.804	5043240	40.0
Pyrene, methyl-	8.879	4.5	ppm	562949	9	9.804	5043240	40.0
Trifluoroacetox...	10.472	6.7	ppm	847174	10	9.804	5043240	40.0
unknown	10.644	4.7	ppm	394821	11	11.451	3371680	40.0
unknown PAH Sub...	11.130	5.0	ppm	422750	11	11.451	3371680	40.0
alkane	11.184	6.8	ppm	577777	11	11.451	3371680	40.0
Heneicosanol	11.216	5.2	ppm	435767	11	11.451	3371680	40.0
unknown PAH Sub...	11.323	16.6	ppm	1400190	11	11.451	3371680	40.0
alkane	11.975	10.3	ppm	868005	11	11.451	3371680	40.0
unknown	12.104	6.9	ppm	580209	11	11.451	3371680	40.0
unknown	12.500	9.2	ppm	778445	11	11.451	3371680	40.0
Benzo[b]triphen...	12.965	4.8	ppm	406787	11	11.451	3371680	40.0
Dibenzophenanth...	13.018	5.8	ppm	492201	11	11.451	3371680	40.0
.beta.-Sitosterol	13.355	10.2	ppm	857837	11	11.451	3371680	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7976.D
Acq On : 03 Jul 2024 01:31 pm
Operator : karimam
Sample : jd91339-7 Inst : GCMS_CT
Misc : op55800,ect375,15.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 03 19:58:41 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

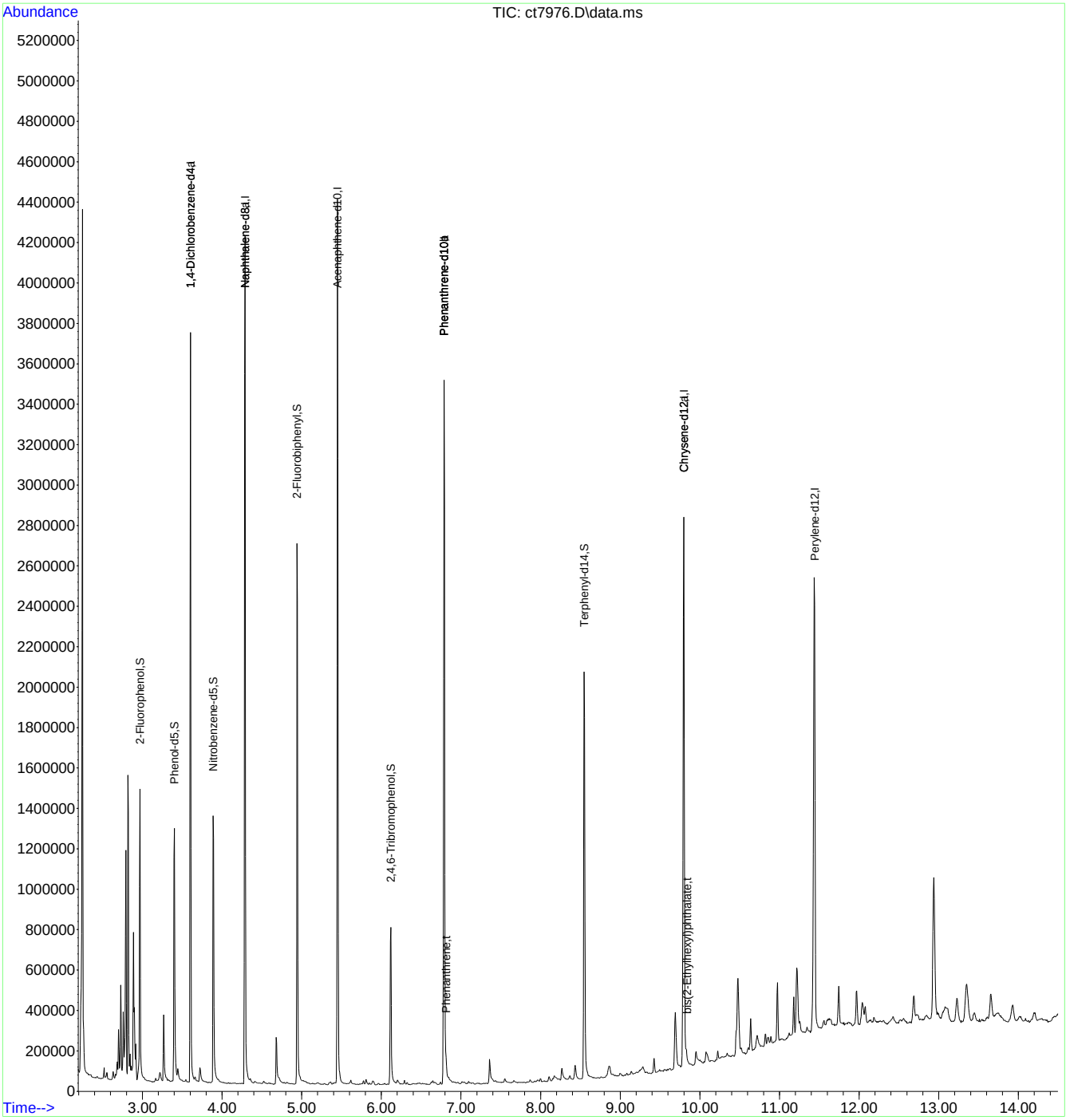
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.605	152	402807	40.00	ppm	0.00
24) Naphthalene-d8	4.289	136	1516586	40.00	ppm	0.00
46) Acenaphthene-d10	5.450	164	799046	40.00	ppm	0.00
69) Phenanthrene-d10	6.787	188	1320553	40.00	ppm	0.00
84) Chrysene-d12	9.798	240	931049	40.00	ppm	0.00
93) Perylene-d12	11.440	264	986868	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	3.605	152	402807	40.00	ppm	0.00
105) Phenanthrene-d10a	6.787	188	1320553	40.00	ppm	0.00
107) Naphthalene-d8a	4.289	136	1516586	40.00	ppm	0.00
109) Phenanthrene-d10b	6.787	188	1320553	40.00	ppm	0.00
112) Chrysene-d12a	9.798	240	931049	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.968	112	309467	23.82	ppm	0.00
Spiked Amount 50.000			Recovery = 47.64%			
8) Phenol-d5	3.401	99	398085	24.47	ppm	0.00
Spiked Amount 50.000			Recovery = 48.94%			
25) Nitrobenzene-d5	3.888	82	396974	25.46	ppm	0.00
Spiked Amount 50.000			Recovery = 50.92%			
51) 2-Fluorobiphenyl	4.942	172	724978	29.08	ppm	0.00
Spiked Amount 50.000			Recovery = 58.16%			
74) 2,4,6-Tribromophenol	6.119	330	81019	32.29	ppm	0.00
Spiked Amount 50.000			Recovery = 64.58%			
87) Terphenyl-d14	8.547	244	683425	29.62	ppm	0.00
Spiked Amount 50.000			Recovery = 59.24%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
78) Phenanthrene	6.814	178	23355	0.6877	ppm	98
92) bis(2-Ethylhexyl)phtha...	9.841	149	1418	1.5909	ppm	64

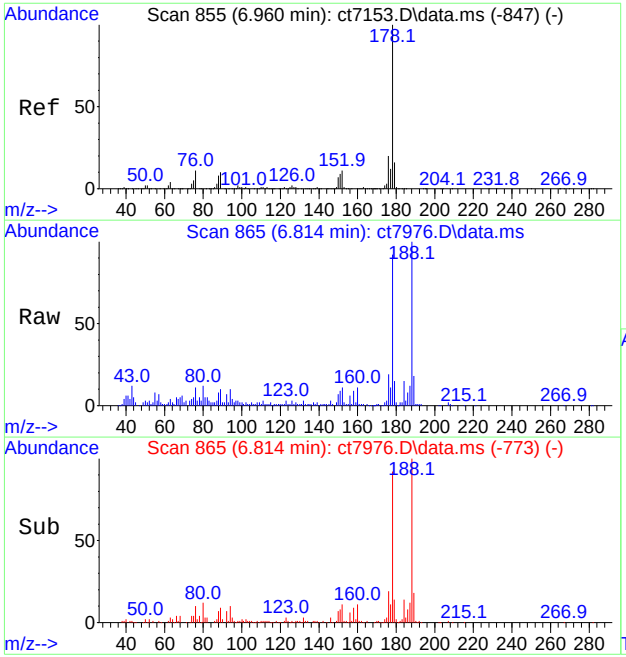
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7976.D
Acq On : 03 Jul 2024 01:31 pm
Operator : karimam
Sample : jd91339-7 Inst : GCMS_CT
Misc : op55800,ect375,15.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 03 19:58:41 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

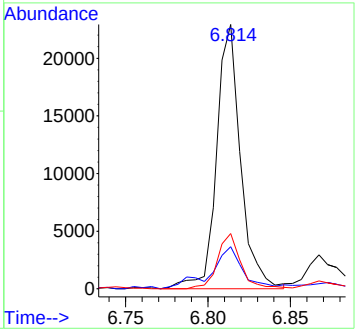


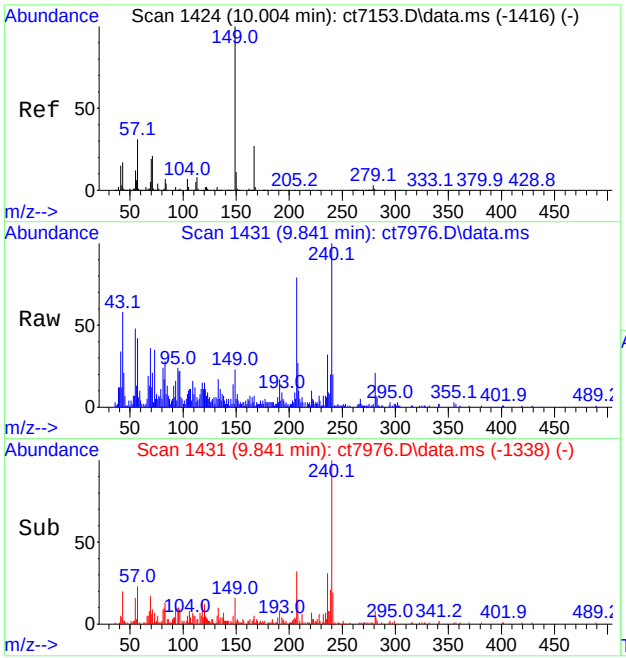


#78
Phenanthrene
Concen: 0.6877 ppm
RT: 6.814 min Scan# 865
Delta R.T. -0.005 min
Lab File: ct7976.D
Acq: 03 Jul 2024 01:31 pm

Tgt Ion:178 Resp: 23355

Ion	Ratio	Lower	Upper
178	100		
179	15.3	0.0	44.9
176	20.8	0.0	49.7

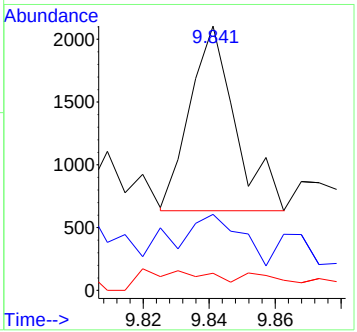




#92
bis(2-Ethylhexyl)phthalate
Concen: 1.5909 ppm
RT: 9.841 min Scan# 1431
Delta R.T. 0.000 min
Lab File: ct7976.D
Acq: 03 Jul 2024 01:31 pm

Tgt Ion:149 Resp: 1418

Ion	Ratio	Lower	Upper
149	100		
167	5.8	0.0	56.3
279	2.7	0.0	33.6



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7976.D
Acq On : 03 Jul 2024 01:31 pm
Operator : karimam
Sample : jd91339-7
Misc : op55800,ect375,15.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: ct7976.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.081	351	354	356	rBV4	5411	4289	0.12%	0.015%
2	4.161	367	369	374	rVB6	4648	5128	0.14%	0.017%
3	4.289	387	393	403	rBV	4197415	3215163	90.24%	10.961%
4	4.412	413	416	425	rBV	9283	12342	0.35%	0.042%
5	4.525	433	437	445	rVB8	13842	20677	0.58%	0.070%
6	4.594	445	450	451	rBV5	4734	5510	0.15%	0.019%
7	4.605	451	452	460	rVB7	6840	10008	0.28%	0.034%
8	4.680	460	466	483	rBV	233612	299952	8.42%	1.023%
9	4.781	483	485	488	rVB4	5624	4076	0.11%	0.014%
10	4.813	488	491	499	rVB10	8302	13650	0.38%	0.047%
11	4.942	508	515	528	rBV	2676419	2217001	62.22%	7.558%
12	5.134	546	551	557	rVB9	4605	6901	0.19%	0.024%
13	5.199	557	563	572	rVB9	7637	15197	0.43%	0.052%
14	5.284	576	579	587	rVB10	6943	10418	0.29%	0.036%
15	5.364	587	594	597	rBV3	14980	25628	0.72%	0.087%
16	5.391	597	599	601	rVV3	6755	5384	0.15%	0.018%
17	5.412	601	603	605	rVV2	9150	9351	0.26%	0.032%
18	5.450	605	610	631	rVV	4381311	3562961	100.00%	12.146%
19	5.568	631	632	634	rVV2	4842	3959	0.11%	0.013%
20	5.616	635	641	654	rVB	21923	39500	1.11%	0.135%
21	5.701	654	657	659	rVB4	3066	3076	0.09%	0.010%
22	5.723	659	661	663	rBV3	4642	3778	0.11%	0.013%
23	5.776	663	671	674	rVV2	19285	21825	0.61%	0.074%
24	5.808	674	677	683	rVV	25348	28319	0.79%	0.097%
25	5.851	683	685	689	rVV4	7806	8000	0.22%	0.027%
26	5.894	689	693	699	rVB2	19136	33316	0.94%	0.114%
27	5.963	699	706	709	rBV8	7591	11054	0.31%	0.038%
28	6.044	714	721	725	rBV9	6394	8313	0.23%	0.028%
29	6.119	730	735	747	rBV	777769	828011	23.24%	2.823%
30	6.204	747	751	757	rVB3	21058	32260	0.91%	0.110%
31	6.290	763	767	771	rVB3	19990	15990	0.45%	0.055%
32	6.322	771	773	778	rVB6	10596	10925	0.31%	0.037%
33	6.397	781	787	792	rBV10	6880	13211	0.37%	0.045%
34	6.482	795	803	807	rBV10	5814	10825	0.30%	0.037%
35	6.520	807	810	812	rBV4	3890	3655	0.10%	0.012%
36	6.648	825	834	836	rBV2	19954	36158	1.01%	0.123%
37	6.744	845	852	854	rBV5	12938	15365	0.43%	0.052%
38	6.787	854	860	880	rVV	3485980	3526963	98.99%	12.024%
39	6.905	880	882	885	rVV4	12581	15682	0.44%	0.053%
40	6.958	889	892	898	rVV6	8500	13995	0.39%	0.048%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7976.D
Acq On : 03 Jul 2024 01:31 pm
Operator : karimam
Sample : jd91339-7
Misc : op55800,ect375,15.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	7.012	898	902	905	rVV6	10405	13626	0.38%	0.046%
42	7.044	905	908	912	rVB6	8951	11622	0.33%	0.040%
43	7.097	915	918	920	rBV3	11849	9675	0.27%	0.033%
44	7.145	924	927	933	rVB8	6563	10832	0.30%	0.037%
45	7.210	933	939	941	rBV7	4864	9177	0.26%	0.031%
46	7.285	948	953	956	rBV7	4037	5864	0.16%	0.020%
47	7.322	956	960	962	rVB5	3669	3810	0.11%	0.013%
48	7.359	962	967	978	rBV2	121201	186131	5.22%	0.635%
49	7.434	978	981	990	rVB2	8627	14208	0.40%	0.048%
50	7.552	998	1003	1018	rVB3	20753	35048	0.98%	0.119%
51	7.664	1018	1024	1033	rVB3	11982	22306	0.63%	0.076%
52	7.728	1033	1036	1038	rBV4	3832	5005	0.14%	0.017%
53	7.787	1046	1047	1051	rVB4	4494	3766	0.11%	0.013%
54	7.835	1053	1056	1057	rBV3	5160	4495	0.13%	0.015%
55	7.868	1059	1062	1069	rVB9	13160	16800	0.47%	0.057%
56	7.926	1069	1073	1076	rBV6	6930	9141	0.26%	0.031%
57	7.964	1076	1080	1084	rVV6	9972	16424	0.46%	0.056%
58	8.001	1084	1087	1090	rVB4	15712	14752	0.41%	0.050%
59	8.049	1090	1096	1098	rBV7	5011	4346	0.12%	0.015%
60	8.108	1101	1107	1112	rBV2	26150	37974	1.07%	0.129%
61	8.172	1112	1119	1127	rBV9	26362	68680	1.93%	0.234%
62	8.231	1128	1130	1133	rVV4	8434	7945	0.22%	0.027%
63	8.269	1133	1137	1150	rVV	60339	101381	2.85%	0.346%
64	8.365	1152	1155	1162	rVV2	18680	26312	0.74%	0.090%
65	8.434	1162	1168	1179	rVV3	69307	107617	3.02%	0.367%
66	8.547	1183	1189	1210	rBV	2014175	2159638	60.61%	7.362%
67	8.761	1225	1229	1234	rBV8	8286	16338	0.46%	0.056%
68	8.862	1238	1248	1255	rBV3	55543	140598	3.95%	0.479%
69	8.996	1270	1273	1281	rVB10	13927	22941	0.64%	0.078%
70	9.082	1286	1289	1292	rVV4	12032	10488	0.29%	0.036%
71	9.141	1297	1300	1304	rVV6	15490	18705	0.52%	0.064%
72	9.210	1309	1313	1315	rVV5	8675	14082	0.40%	0.048%
73	9.285	1317	1327	1334	rVB5	30645	84949	2.38%	0.290%
74	9.424	1348	1353	1358	rBV2	72367	72452	2.03%	0.247%
75	9.552	1375	1377	1381	rBV4	9964	15551	0.44%	0.053%
76	9.691	1397	1403	1411	rBV2	283016	426961	11.98%	1.456%
77	9.798	1417	1423	1443	rBV	2718780	2940799	82.54%	10.025%
78	9.954	1447	1452	1460	rBV5	65321	121152	3.40%	0.413%
79	10.077	1472	1475	1484	rBV4	49319	86195	2.42%	0.294%
80	10.226	1500	1503	1506	rBV3	45099	47884	1.34%	0.163%
81	10.478	1542	1550	1564	rBV2	382716	746442	20.95%	2.545%
82	10.611	1571	1575	1576	rBV4	23456	27700	0.78%	0.094%
83	10.638	1576	1580	1586	rVB	158882	154038	4.32%	0.525%
84	10.718	1591	1595	1603	rVV5	63583	126776	3.56%	0.432%
85	10.820	1611	1614	1617	rBV2	60288	64272	1.80%	0.219%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7976.D
Acq On : 03 Jul 2024 01:31 pm
Operator : karimam
Sample : jd91339-7
Misc : op55800,ect375,15.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	10.857	1618	1621	1624	rVV4	37383	50399	1.41%	0.172%
87	10.890	1625	1627	1632	rVB2	33127	36443	1.02%	0.124%
88	10.975	1639	1643	1647	rBV	286752	262305	7.36%	0.894%
89	11.178	1677	1681	1684	rBV	185722	182578	5.12%	0.622%
90	11.216	1684	1688	1703	rVV2	324233	586353	16.46%	1.999%
91	11.435	1722	1729	1740	rBV	2245747	3001310	84.24%	10.232%
92	11.745	1782	1787	1793	rBV	192196	237194	6.66%	0.809%
93	11.970	1824	1829	1834	rVB	164047	206714	5.80%	0.705%
94	12.040	1837	1842	1846	rBV4	103180	183324	5.15%	0.625%
95	12.687	1958	1963	1968	rBV	125432	202460	5.68%	0.690%
96	12.938	2003	2010	2025	rVB4	697456	1201264	33.72%	4.095%
97	13.227	2059	2064	2074	rVB7	121022	234320	6.58%	0.799%
98	13.350	2080	2087	2098	rVB6	181541	440436	12.36%	1.501%
99	13.655	2139	2144	2151	rVB9	112042	189651	5.32%	0.647%
100	13.928	2191	2195	2204	rVB7	77696	146431	4.11%	0.499%

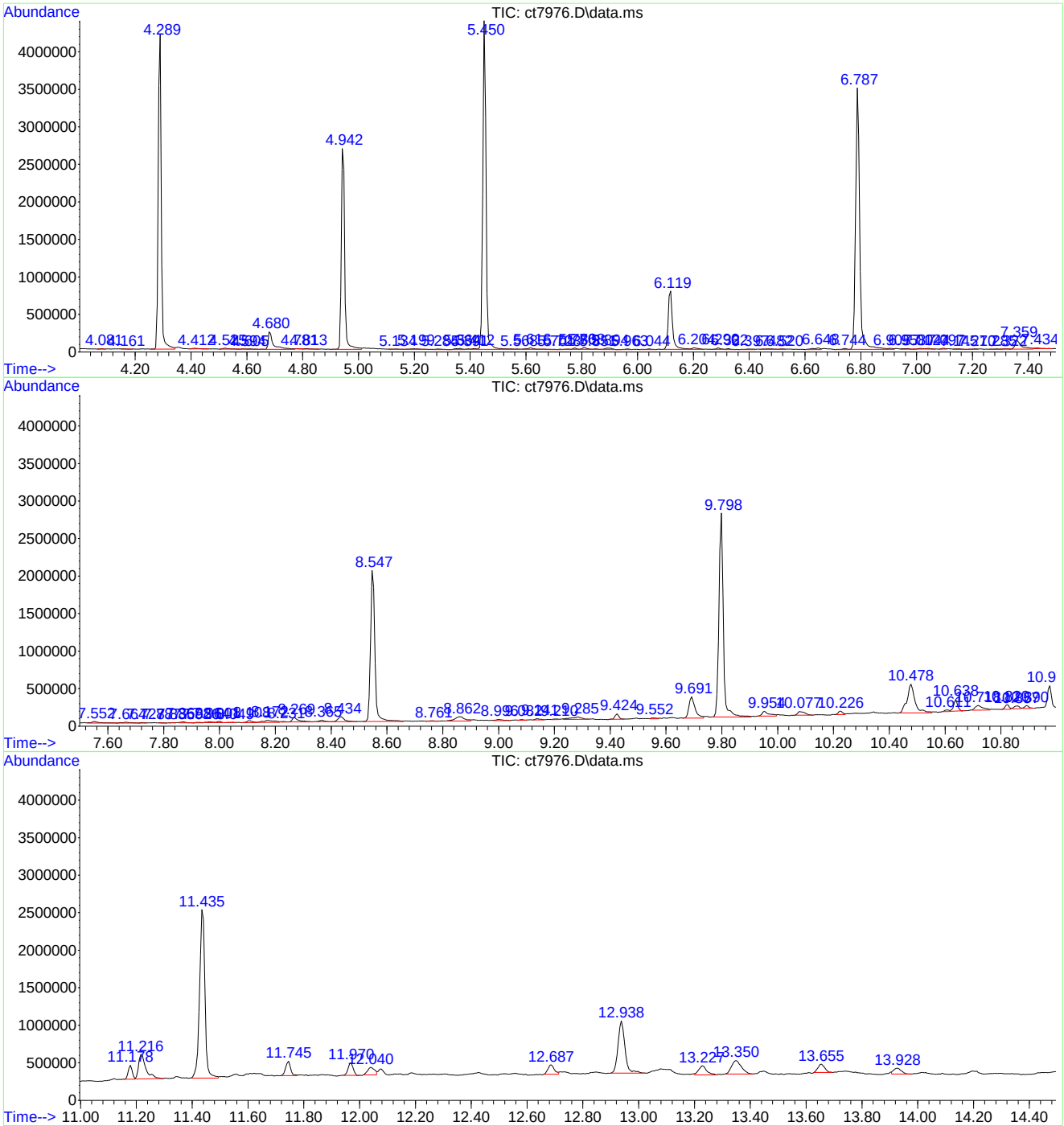
Sum of corrected areas: 29333896

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7976.D
Acq On : 03 Jul 2024 01:31 pm
Operator : karimam
Sample : jd91339-7
Misc : op55800,ect375,15.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7976.D
Acq On : 03 Jul 2024 01:31 pm
Operator : karimam
Sample : jd91339-7
Misc : op55800,ect375,15.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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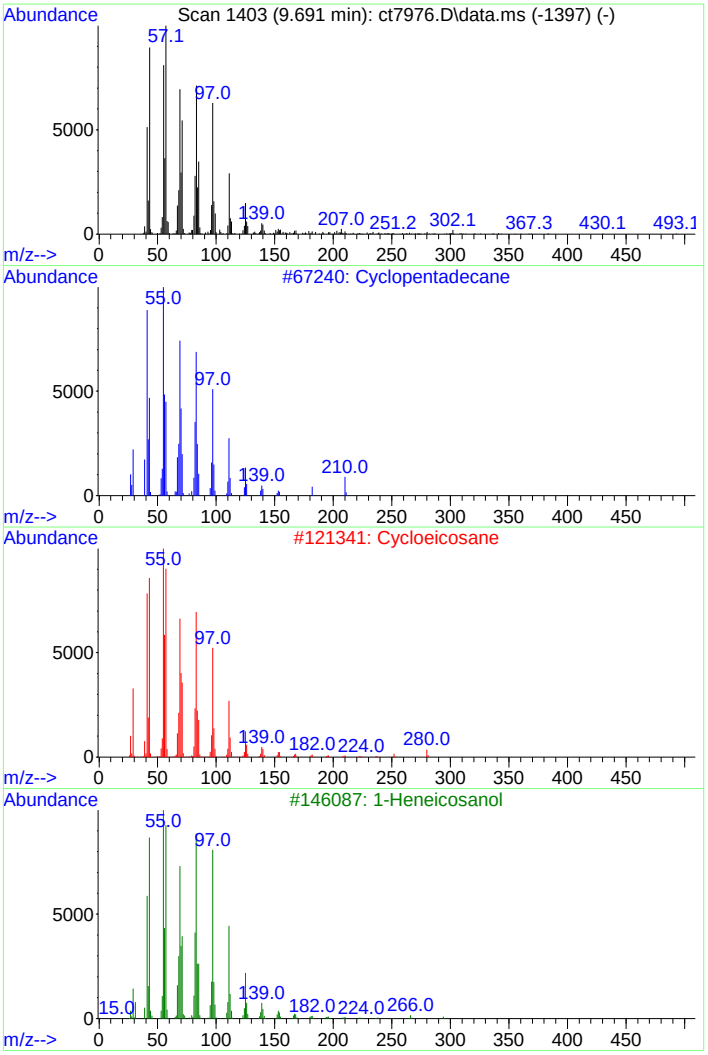
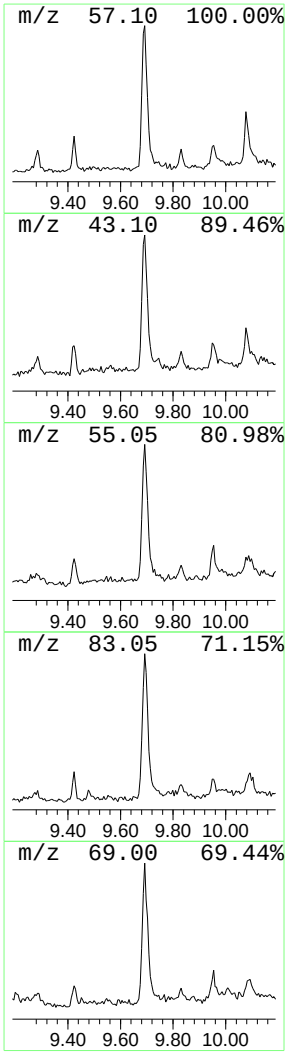
Peak Number 1 cycloalkane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.691	5.81 ppm	426961	Chrysene-d12	9.798

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentadecane	210	C15H30	000295-48-7	97
2	Cycloeicosane	280	C20H40	000296-56-0	95
3	1-Heneicosanol	312	C21H44O	015594-90-8	93
4	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	93
5	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7976.D
Acq On : 03 Jul 2024 01:31 pm
Operator : karimam
Sample : jd91339-7
Misc : op55800,ect375,15.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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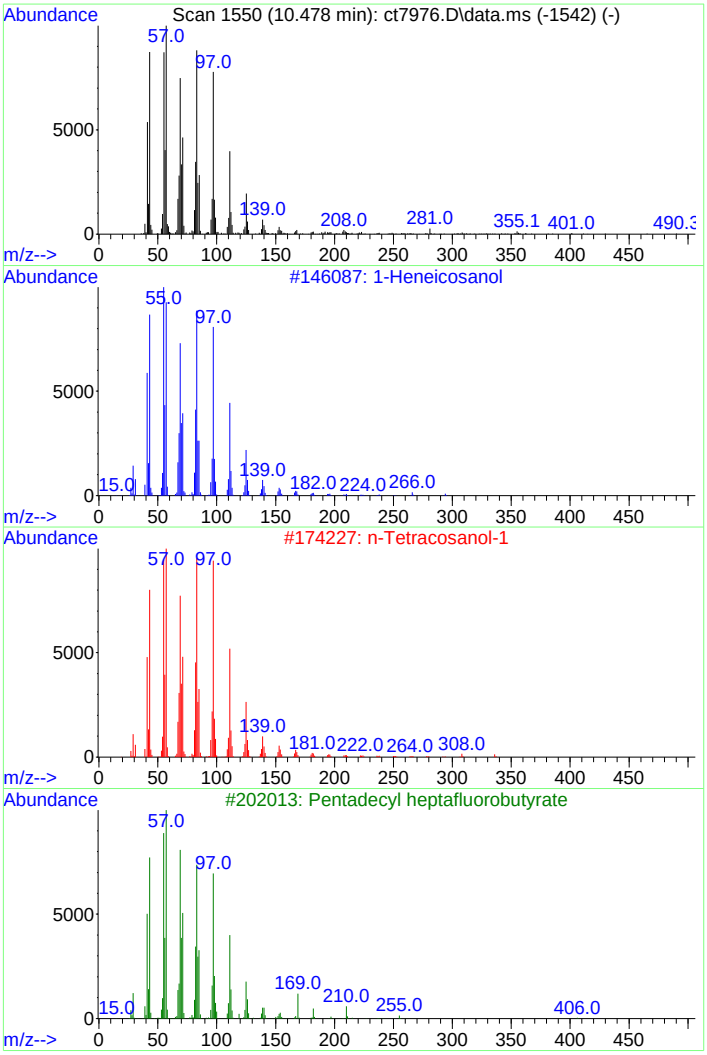
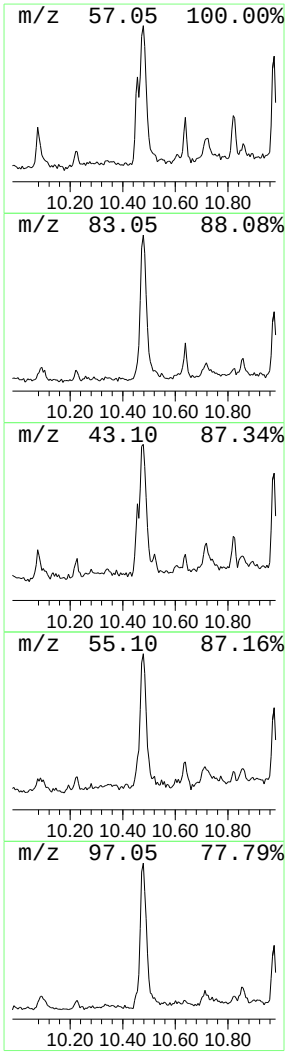
Peak Number 2 Heneicosanol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.478	10.15 ppm	746442	Chrysene-d12a	9.798

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	95
2	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
3	Pentadecyl heptafluorobutyrate	424	C19H31F7O2	1000351-82-6	94
4	1-Heneicosyl formate	340	C22H44O2	077899-03-7	91
5	n-Nonadecanol-1	284	C19H40O	001454-84-8	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7976.D
Acq On : 03 Jul 2024 01:31 pm
Operator : karimam
Sample : jd91339-7
Misc : op55800,ect375,15.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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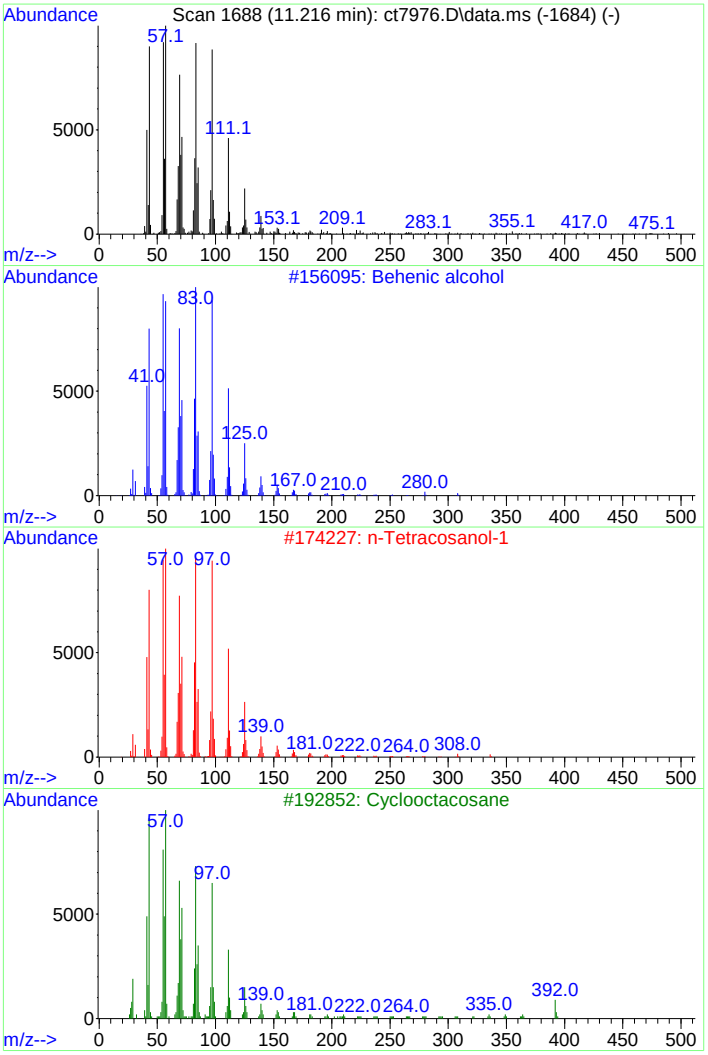
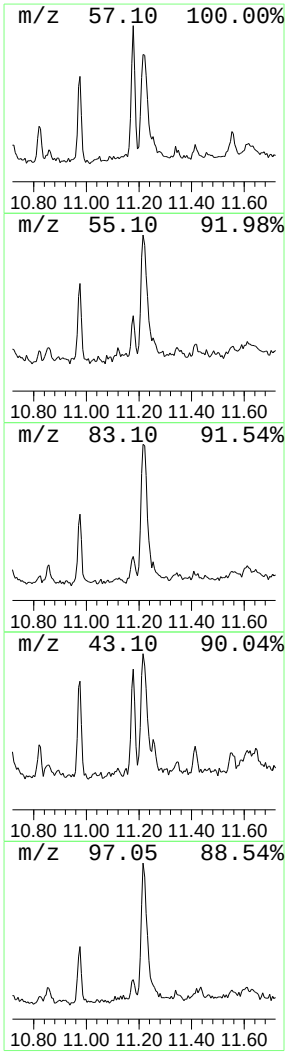
Peak Number 3 Behenic alcohol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.216	7.81 ppm	586353	Perylene-d12	11.441

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Behenic alcohol	326	C22H46O	000661-19-8	94
2	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
3	Cyclooctacosane	392	C28H56	000297-24-5	93
4	1-Heneicosanol	312	C21H44O	015594-90-8	91
5	1-Heptacosanol	396	C27H56O	002004-39-9	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7976.D
Acq On : 03 Jul 2024 01:31 pm
Operator : karimam
Sample : jd91339-7
Misc : op55800,ect375,15.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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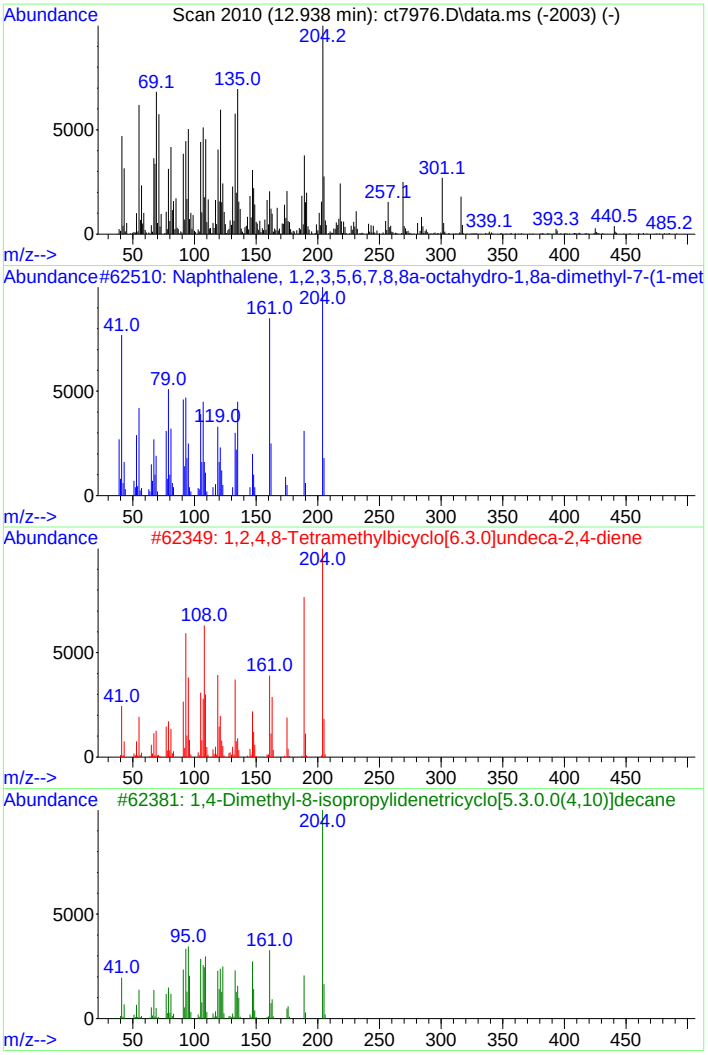
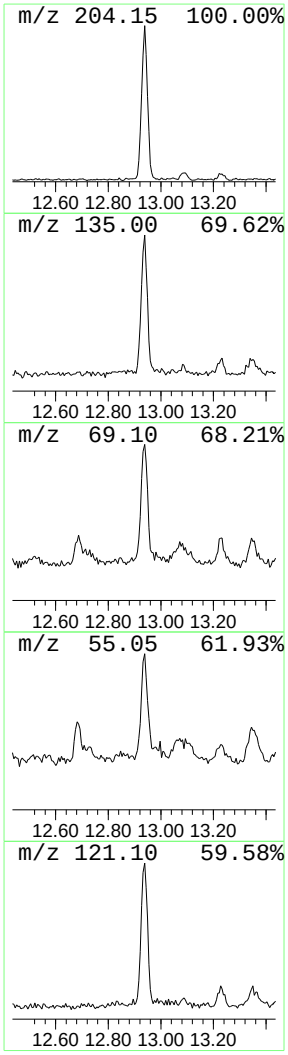
Peak Number 4 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.938	16.01 ppm	1201260	Perylene-d12	11.441

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,5,6,7,8,8a-oc...	204	C15H24	004630-07-3	62
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	60
3	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1000140-07-7	58
4	2H-Cyclopentacyclooctene, 4,5,6,...	204	C15H24	1000221-85-8	53
5	1H-Cycloprop[e]azulene, 1a,2,3,5...	204	C15H24	021747-46-6	50





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7976.D
Acq On : 03 Jul 2024 01:31 pm
Operator : karimam
Sample : jd91339-7
Misc : op55800,ect375,15.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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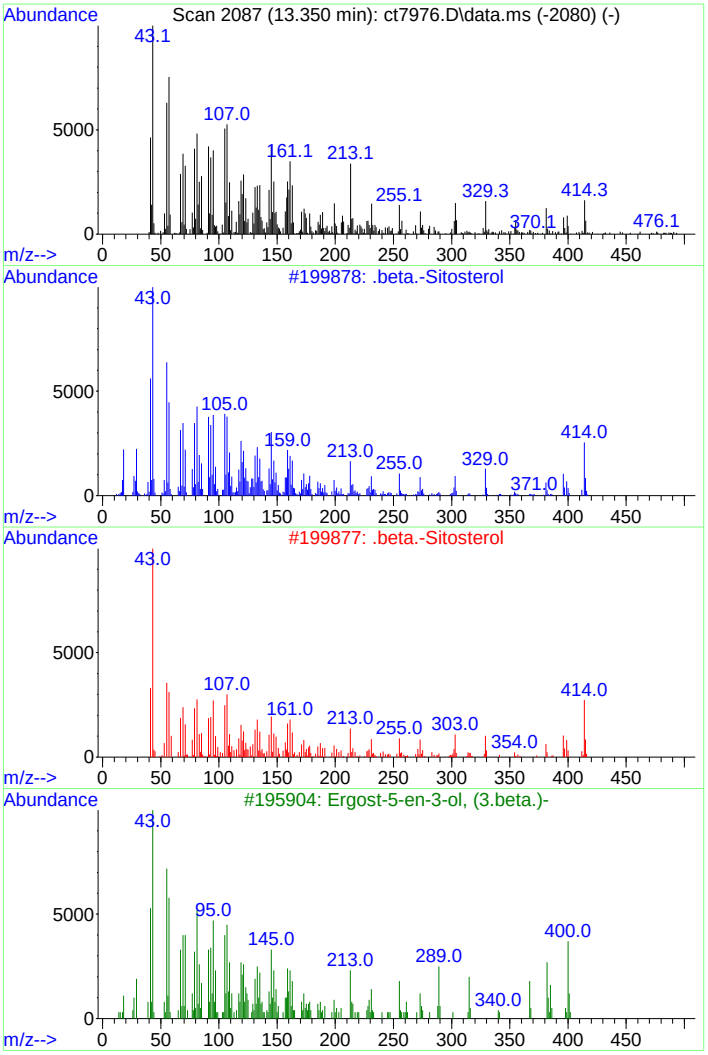
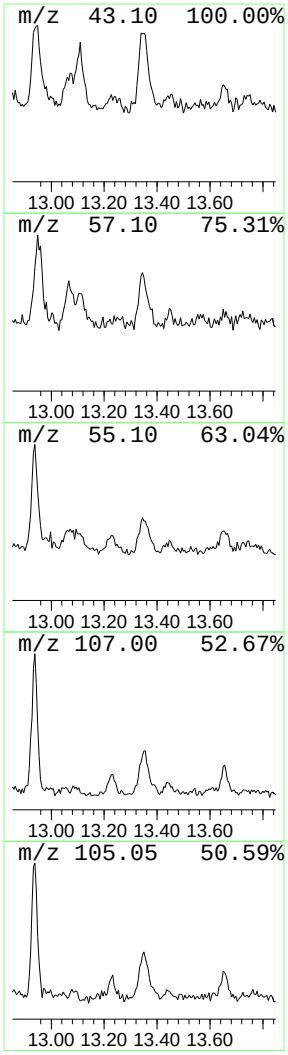
Peak Number 5 beta.-Sitosterol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.350	5.87 ppm	440436	Perylene-d12	11.441

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Sitosterol	414	C29H50O	000083-46-5	95
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	87
3	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	68
4	Campesterol	400	C28H48O	000474-62-4	53
5	Ergost-7-en-3-ol, (3.beta.)-	400	C28H48O	026047-31-4	52





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7976.D
Acq On : 03 Jul 2024 01:31 pm
Operator : karimam
Sample : jd91339-7
Misc : op55800,ect375,15.8,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
cycloalkane	9.691	5.8	ppm	426961	9	9.798	2940800	40.0
Heneicosanol	10.478	10.2	ppm	746442	10	9.798	2940800	40.0
Behenic alcohol	11.216	7.8	ppm	586353	11	11.441	3001310	40.0
unknown	12.938	16.0	ppm	1201260	11	11.441	3001310	40.0
beta.-Sitosterol	13.350	5.9	ppm	440436	11	11.441	3001310	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7977.D
Acq On : 03 Jul 2024 01:50 pm
Operator : karimam
Sample : jd91339-8 Inst : GCMS_CT
Misc : op55800,ect375,15.1,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 03 20:03:24 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

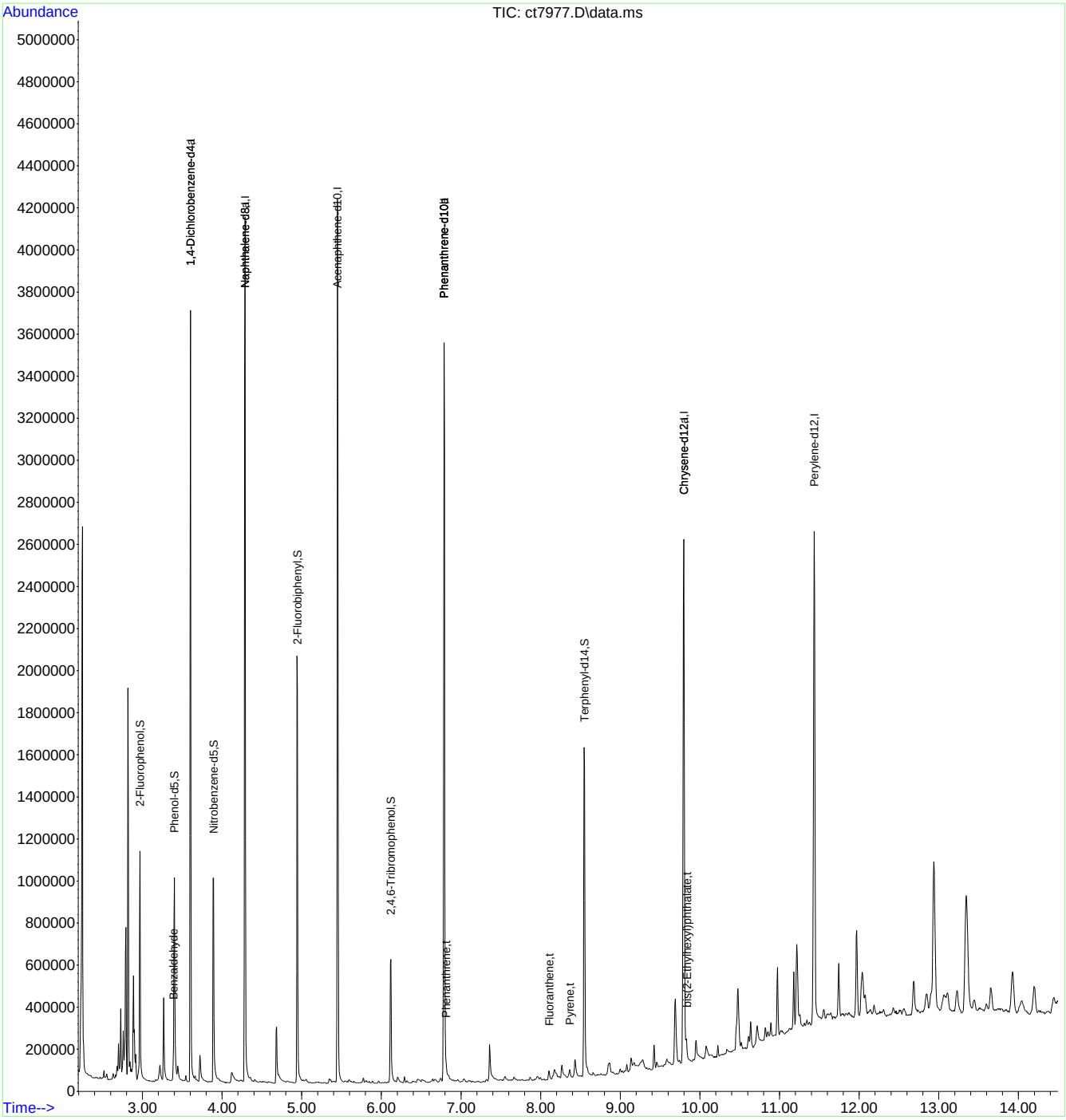
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.605	152	387234	40.00	ppm	0.00
24) Naphthalene-d8	4.289	136	1488672	40.00	ppm	0.00
46) Acenaphthene-d10	5.450	164	795107	40.00	ppm	0.00
69) Phenanthrene-d10	6.787	188	1323412	40.00	ppm	0.00
84) Chrysene-d12	9.798	240	916976	40.00	ppm	0.00
93) Perylene-d12	11.435	264	970289	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	3.605	152	387234	40.00	ppm	0.00
105) Phenanthrene-d10a	6.787	188	1323412	40.00	ppm	0.00
107) Naphthalene-d8a	4.289	136	1488672	40.00	ppm	0.00
109) Phenanthrene-d10b	6.787	188	1323412	40.00	ppm	0.00
112) Chrysene-d12a	9.798	240	916976	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.968	112	237743	19.03	ppm	0.00
Spiked Amount 50.000			Recovery = 38.06%			
8) Phenol-d5	3.401	99	304967	19.50	ppm	0.00
Spiked Amount 50.000			Recovery = 39.00%			
25) Nitrobenzene-d5	3.893	82	308248	20.14	ppm	0.00
Spiked Amount 50.000			Recovery = 40.28%			
51) 2-Fluorobiphenyl	4.947	172	558766	22.52	ppm	0.00
Spiked Amount 50.000			Recovery = 45.04%			
74) 2,4,6-Tribromophenol	6.118	330	61472	24.45	ppm	0.00
Spiked Amount 50.000			Recovery = 48.90%			
87) Terphenyl-d14	8.552	244	537723	23.66	ppm	0.00
Spiked Amount 50.000			Recovery = 47.32%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
78) Phenanthrene	6.814	178	11552	0.3394	ppm	99
82) Fluoranthene	8.108	202	17865	0.5488	ppm	98
86) Pyrene	8.365	202	17546	0.5388	ppm	99
92) bis(2-Ethylhexyl)phtha...	9.841	149	2710	1.6423	ppm	96
104) Benzaldehyde	3.391	105	17368	1.4706	ppm	95

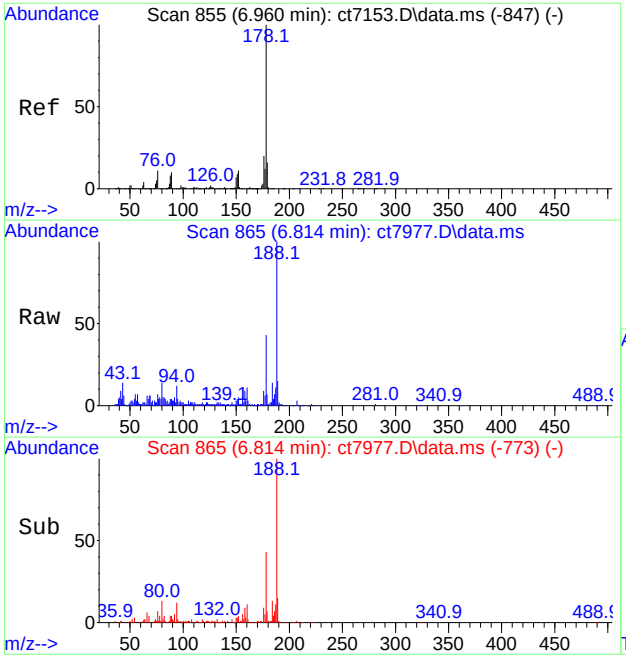
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7977.D
Acq On : 03 Jul 2024 01:50 pm
Operator : karimam
Sample : jd91339-8 Inst : GCMS_CT
Misc : op55800,ect375,15.1,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 03 20:03:24 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

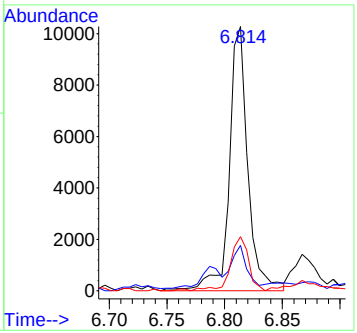


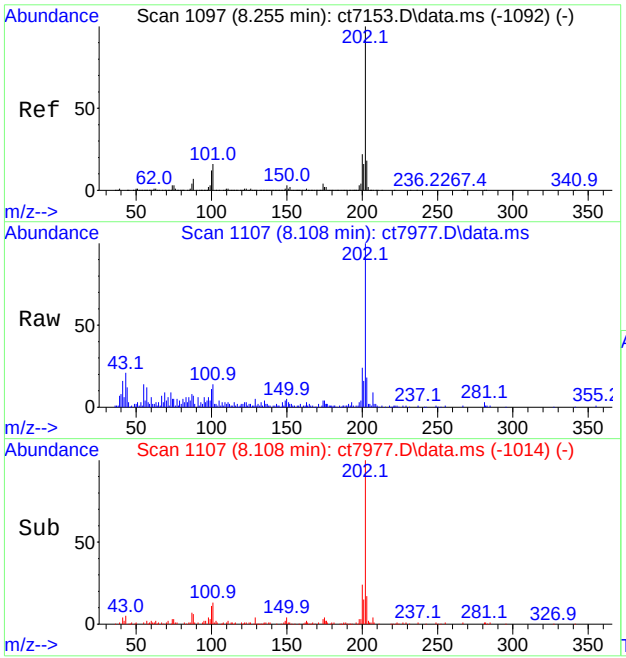


#78
Phenanthrene
Concen: 0.3394 ppm
RT: 6.814 min Scan# 865
Delta R.T. -0.005 min
Lab File: ct7977.D
Acq: 03 Jul 2024 01:50 pm

Tgt Ion:178 Resp: 11552

Ion	Ratio	Lower	Upper
178	100		
179	15.5	0.0	44.9
176	19.9	0.0	49.7

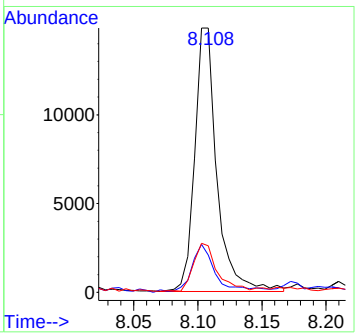


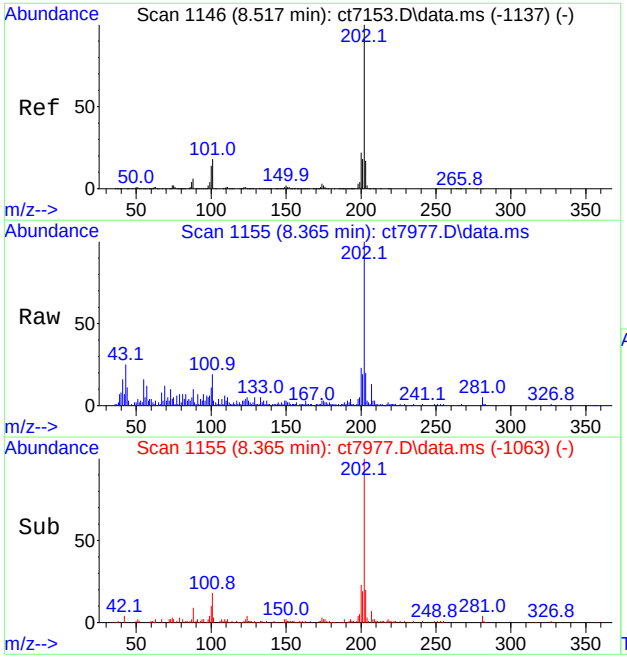


#82
Fluoranthene
Concen: 0.5488 ppm
RT: 8.108 min Scan# 1107
Delta R.T. 0.000 min
Lab File: ct7977.D
Acq: 03 Jul 2024 01:50 pm

Tgt Ion:202 Resp: 17865

Ion	Ratio	Lower	Upper
202	100		
101	12.5	0.0	43.5
203	16.8	0.0	47.6

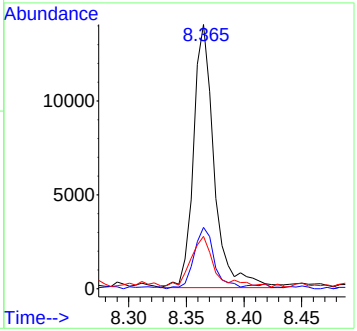


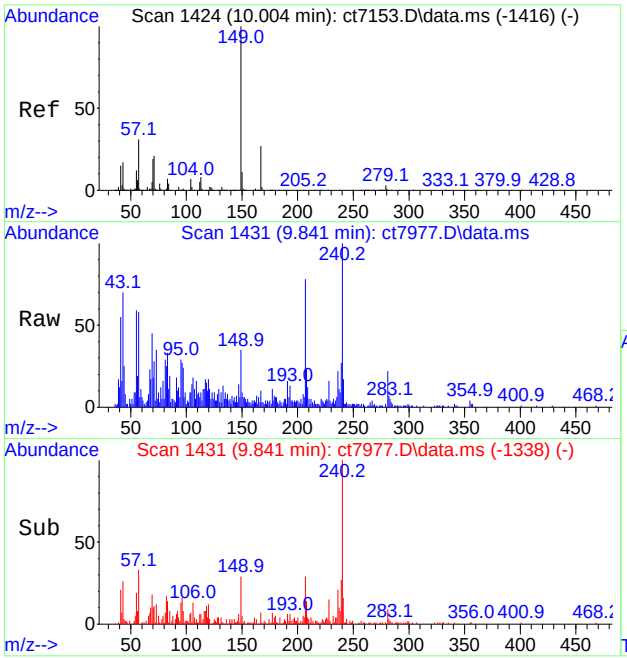


#86
Pyrene
Concen: 0.5388 ppm
RT: 8.365 min Scan# 1155
Delta R.T. -0.005 min
Lab File: ct7977.D
Acq: 03 Jul 2024 01:50 pm

Tgt Ion:202 Resp: 17546

Ion	Ratio	Lower	Upper
202	100		
200	22.8	0.0	52.6
203	19.1	0.0	47.9

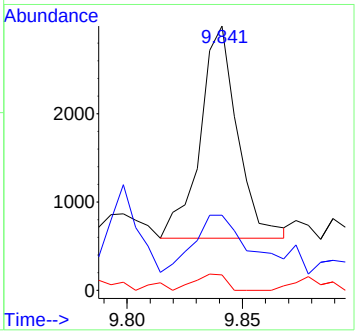


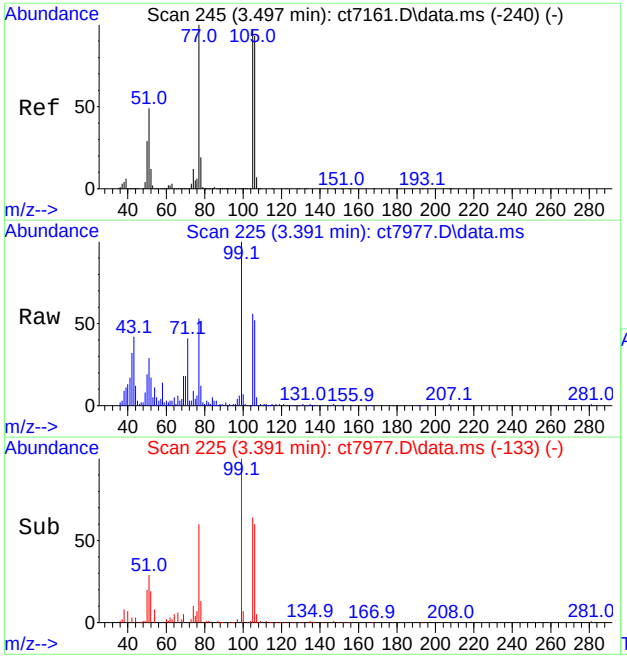


#92
bis(2-Ethylhexyl)phthalate
Concen: 1.6423 ppm
RT: 9.841 min Scan# 1431
Delta R.T. 0.000 min
Lab File: ct7977.D
Acq: 03 Jul 2024 01:50 pm

Tgt Ion:149 Resp: 2710

Ion	Ratio	Lower	Upper
149	100		
167	24.4	0.0	56.3
279	4.6	0.0	33.6

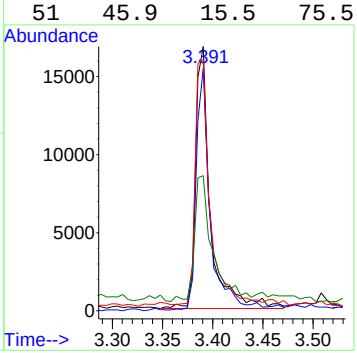




#104
Benzaldehyde
Concen: 1.4706 ppm
RT: 3.391 min Scan# 225
Delta R.T. -0.010 min
Lab File: ct7977.D
Acq: 03 Jul 2024 01:50 pm

Tgt Ion:105 Resp: 17368

Ion	Ratio	Lower	Upper
105	100		
106	91.9	66.8	126.8
77	92.7	70.7	130.7
51	45.9	15.5	75.5



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7977.D
Acq On : 03 Jul 2024 01:50 pm
Operator : karimam
Sample : jd91339-8
Misc : op55800,ect375,15.1,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: ct7977.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.123	356	362	379	rBV	49254	144368	4.12%	0.455%
2	4.246	379	385	388	rVB7	7085	10868	0.31%	0.034%
3	4.289	388	393	404	rBV	4110820	3149778	89.96%	9.918%
4	4.412	413	416	424	rVB2	13501	17926	0.51%	0.056%
5	4.583	445	448	451	rBV5	5504	6687	0.19%	0.021%
6	4.685	460	467	489	rBV	267944	369660	10.56%	1.164%
7	4.819	489	492	498	rVB8	6332	12708	0.36%	0.040%
8	4.942	509	515	528	rBV	2030655	1706076	48.73%	5.372%
9	5.017	528	529	531	rVV2	14708	11533	0.33%	0.036%
10	5.054	532	536	543	rVB8	16487	27799	0.79%	0.088%
11	5.182	557	560	563	rVV4	5027	6951	0.20%	0.022%
12	5.209	563	565	568	rVV4	5784	5045	0.14%	0.016%
13	5.279	576	578	583	rVB5	5718	8612	0.25%	0.027%
14	5.348	587	591	597	rBV2	22296	37841	1.08%	0.119%
15	5.391	597	599	604	rVV6	7798	13551	0.39%	0.043%
16	5.450	604	610	624	rVV	4202006	3501224	100.00%	11.024%
17	5.546	624	628	631	rVV5	7932	12273	0.35%	0.039%
18	5.594	634	637	645	rVV7	12508	21951	0.63%	0.069%
19	5.653	645	648	655	rVB8	8622	8672	0.25%	0.027%
20	5.776	662	671	674	rBV3	23655	26558	0.76%	0.084%
21	5.808	674	677	683	rVB2	9506	11675	0.33%	0.037%
22	5.851	683	685	688	rVB4	8074	5852	0.17%	0.018%
23	5.888	688	692	702	rVB4	11702	14089	0.40%	0.044%
24	5.969	702	707	712	rBV3	10472	14095	0.40%	0.044%
25	6.044	718	721	724	rBV4	5430	5187	0.15%	0.016%
26	6.081	724	728	729	rBV4	6124	5217	0.15%	0.016%
27	6.118	729	735	748	rBV	585277	637666	18.21%	2.008%
28	6.204	748	751	764	rVB4	26908	44211	1.26%	0.139%
29	6.290	764	767	770	rBV2	28824	25319	0.72%	0.080%
30	6.322	771	773	779	rVB6	10670	10848	0.31%	0.034%
31	6.391	779	786	788	rBV7	8410	9528	0.27%	0.030%
32	6.461	794	799	806	rBV7	16020	40016	1.14%	0.126%
33	6.509	806	808	820	rVB3	13401	31517	0.90%	0.099%
34	6.648	824	834	836	rBV2	16854	25084	0.72%	0.079%
35	6.669	836	838	846	rVB6	14567	27887	0.80%	0.088%
36	6.744	846	852	855	rBV3	19793	31549	0.90%	0.099%
37	6.787	855	860	880	rVV	3509959	3455185	98.69%	10.879%
38	6.958	888	892	899	rVB3	13291	19965	0.57%	0.063%
39	7.038	899	907	914	rBV3	16166	28112	0.80%	0.089%
40	7.097	914	918	920	rBV4	7702	7812	0.22%	0.025%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7977.D
Acq On : 03 Jul 2024 01:50 pm
Operator : karimam
Sample : jd91339-8
Misc : op55800,ect375,15.1,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	7.145	925	927	932	rBV6	6582	6097	0.17%	0.019%
42	7.220	940	941	945	rVB4	6375	4836	0.14%	0.015%
43	7.279	948	952	956	rBV7	6576	9626	0.27%	0.030%
44	7.322	956	960	963	rBV5	12682	17014	0.49%	0.054%
45	7.359	963	967	988	rVV2	174244	270832	7.74%	0.853%
46	7.488	990	991	993	rVV2	6823	5365	0.15%	0.017%
47	7.552	997	1003	1012	rVV4	20764	41359	1.18%	0.130%
48	7.611	1012	1014	1018	rVV5	4126	5728	0.16%	0.018%
49	7.664	1018	1024	1033	rVV5	18065	35199	1.01%	0.111%
50	7.771	1040	1044	1047	rVB6	5909	5878	0.17%	0.019%
51	7.835	1053	1056	1059	rBV5	4186	5193	0.15%	0.016%
52	7.867	1059	1062	1067	rVB7	15718	19406	0.55%	0.061%
53	7.926	1071	1073	1075	rBV3	5535	5809	0.17%	0.018%
54	7.958	1075	1079	1084	rVV8	18224	33016	0.94%	0.104%
55	7.996	1084	1086	1090	rVB4	11947	11472	0.33%	0.036%
56	8.108	1103	1107	1112	rBV	43819	55995	1.60%	0.176%
57	8.172	1112	1119	1129	rBV8	45399	119828	3.42%	0.377%
58	8.269	1133	1137	1149	rBV2	62592	107957	3.08%	0.340%
59	8.365	1149	1155	1162	rBV	39227	58185	1.66%	0.183%
60	8.434	1162	1168	1176	rBV	83808	136899	3.91%	0.431%
61	8.547	1184	1189	1207	rBV	1565582	1716005	49.01%	5.403%
62	8.659	1208	1210	1216	rVB7	15774	15886	0.45%	0.050%
63	8.755	1225	1228	1234	rBV8	8095	8376	0.24%	0.026%
64	8.862	1239	1248	1255	rBV5	58587	138544	3.96%	0.436%
65	9.001	1269	1274	1277	rBV6	24235	30289	0.87%	0.095%
66	9.082	1282	1289	1293	rBV3	37607	40944	1.17%	0.129%
67	9.135	1293	1299	1303	rBV3	68117	107638	3.07%	0.339%
68	9.173	1304	1306	1310	rVB5	15494	18427	0.53%	0.058%
69	9.285	1318	1327	1334	rVB7	43219	127906	3.65%	0.403%
70	9.424	1348	1353	1357	rBV	118753	121066	3.46%	0.381%
71	9.456	1357	1359	1364	rVV5	27349	33666	0.96%	0.106%
72	9.552	1375	1377	1379	rBV3	10289	11405	0.33%	0.036%
73	9.584	1379	1383	1394	rVV3	32452	73012	2.09%	0.230%
74	9.691	1397	1403	1411	rBV	313972	472500	13.50%	1.488%
75	9.798	1416	1423	1442	rBV	2492772	2975374	84.98%	9.368%
76	9.953	1447	1452	1467	rBV4	91929	165299	4.72%	0.520%
77	10.076	1471	1475	1483	rBV3	57763	111657	3.19%	0.352%
78	10.226	1500	1503	1506	rBV2	55680	54265	1.55%	0.171%
79	10.339	1522	1524	1532	rBV8	19092	31902	0.91%	0.100%
80	10.478	1543	1550	1556	rBV2	292399	525169	15.00%	1.654%
81	10.611	1571	1575	1577	rBV3	58621	74356	2.12%	0.234%
82	10.638	1577	1580	1586	rVB	123579	126361	3.61%	0.398%
83	10.718	1590	1595	1606	rBV4	89358	187287	5.35%	0.590%
84	10.820	1611	1614	1617	rBV2	61935	68769	1.96%	0.217%
85	10.889	1624	1627	1632	rVB	65131	65089	1.86%	0.205%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7977.D
Acq On : 03 Jul 2024 01:50 pm
Operator : karimam
Sample : jd91339-8
Misc : op55800,ect375,15.1,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	10.975	1639	1643	1647	rBV	324879	300545	8.58%	0.946%
87	11.178	1676	1681	1684	rBV	273800	278006	7.94%	0.875%
88	11.216	1684	1688	1702	rVB2	396180	661420	18.89%	2.083%
89	11.435	1722	1729	1746	rBV	2343532	2999053	85.66%	9.443%
90	11.745	1782	1787	1792	rBV	252104	289619	8.27%	0.912%
91	11.970	1823	1829	1835	rBV	408015	537348	15.35%	1.692%
92	12.039	1836	1842	1847	rBV3	201802	424351	12.12%	1.336%
93	12.687	1957	1963	1971	rBV3	159982	302817	8.65%	0.953%
94	12.842	1988	1992	1998	rVV7	68499	125541	3.59%	0.395%
95	12.938	2000	2010	2024	rVB4	708792	1468319	41.94%	4.623%
96	13.232	2060	2065	2075	rVB10	106209	223016	6.37%	0.702%
97	13.345	2078	2086	2100	rBV2	551849	1405311	40.14%	4.425%
98	13.649	2139	2143	2152	rVB6	109870	215121	6.14%	0.677%
99	13.928	2188	2195	2204	rVB6	196637	456027	13.02%	1.436%
100	14.195	2240	2245	2253	rVB4	125312	265103	7.57%	0.835%

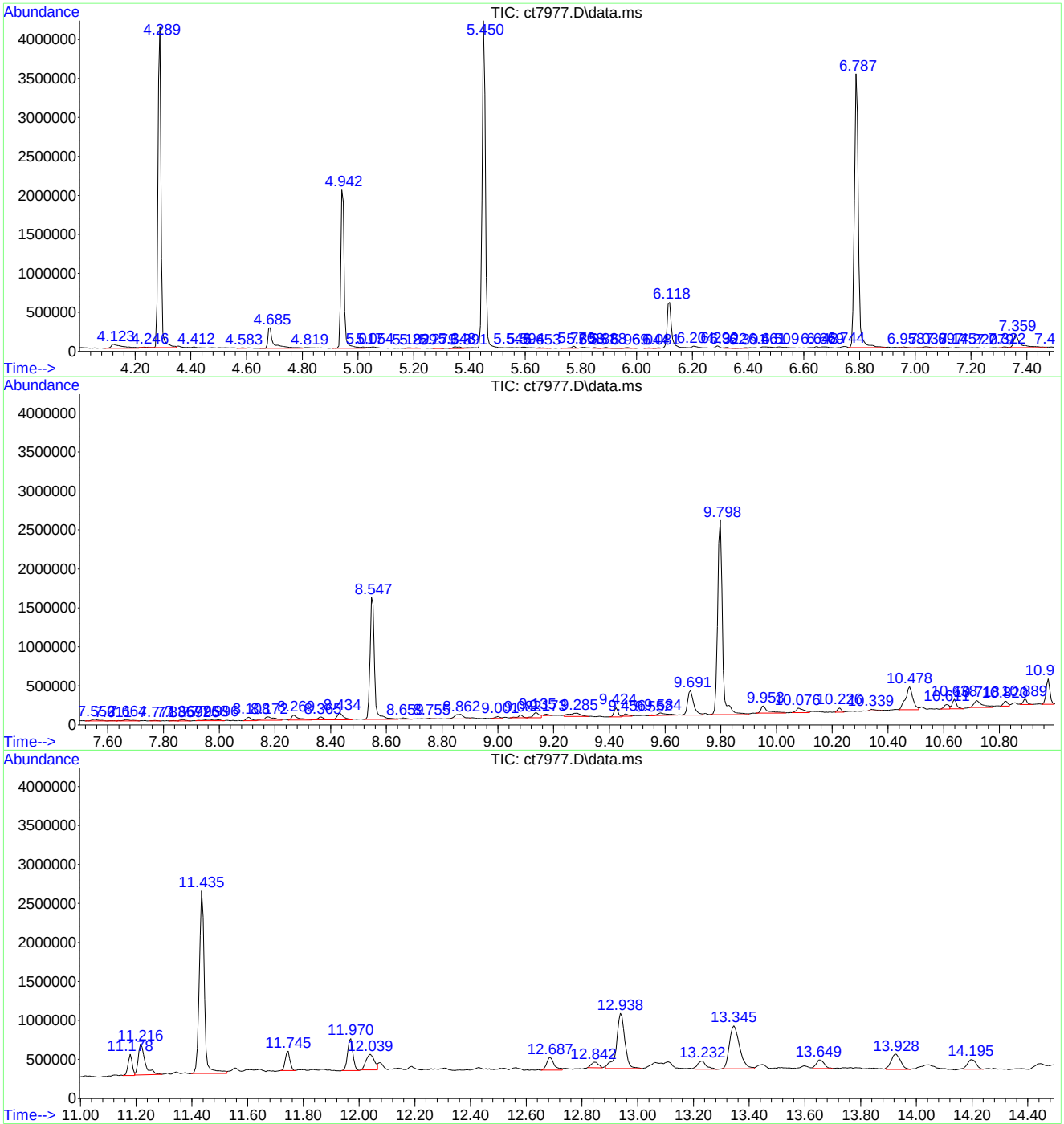
Sum of corrected areas: 31759378

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7977.D
Acq On : 03 Jul 2024 01:50 pm
Operator : karimam
Sample : jd91339-8
Misc : op55800,ect375,15.1,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7977.D
Acq On : 03 Jul 2024 01:50 pm
Operator : karimam
Sample : jd91339-8
Misc : op55800,ect375,15.1,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

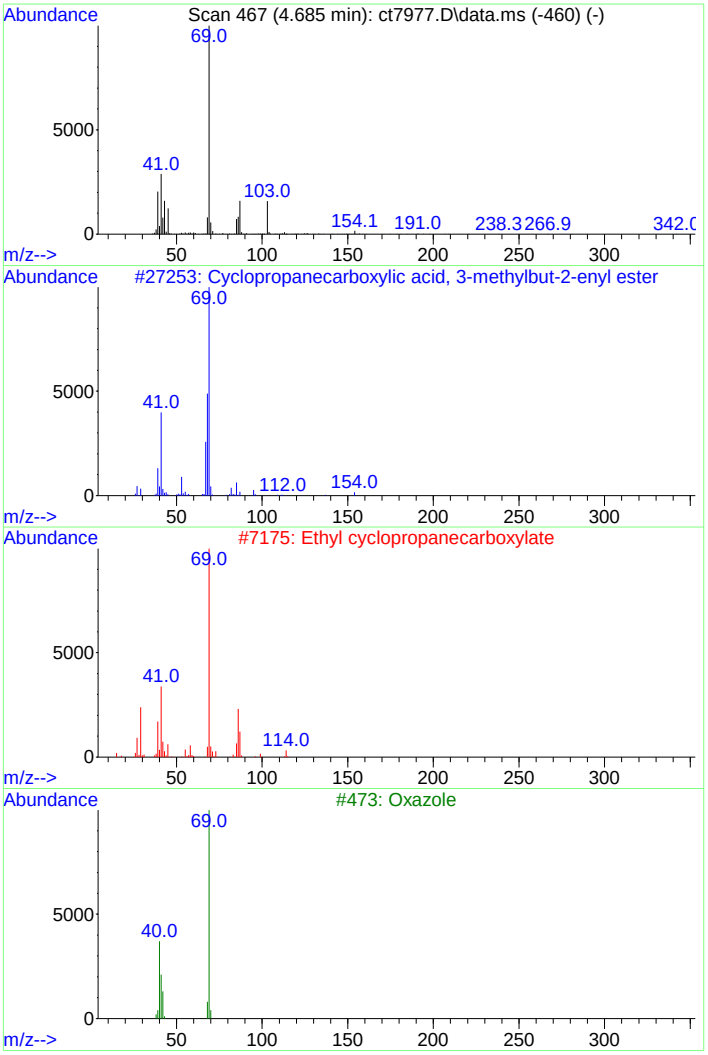
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

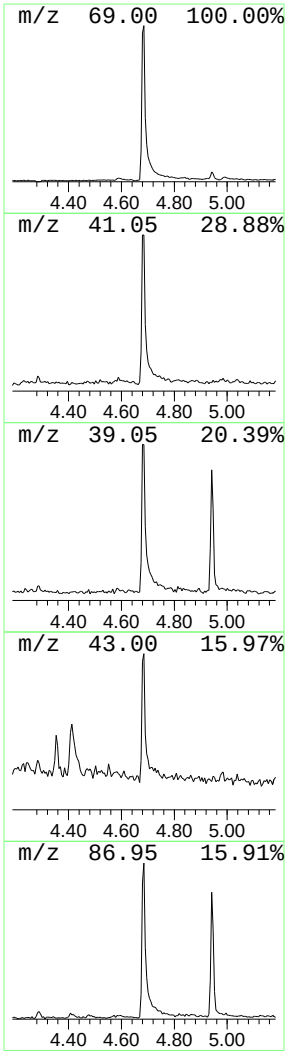
****

Peak Number 1 unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.685	4.69 ppm	369660	Naphthalene-d8a	4.289

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropanecarboxylic acid, 3-m...	154	C9H14O2	1000299-37-4	53
2	Ethyl cyclopropanecarboxylate	114	C6H10O2	004606-07-9	40
3	Oxazole	69	C3H3NO	000288-42-6	9
4	Cyclopropanecarboxylic acid,pent...	156	C9H16O2	060128-02-1	9
5	Ethyl cyclopropanecarboxylate	114	C6H10O2	004606-07-9	9





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7977.D
Acq On : 03 Jul 2024 01:50 pm
Operator : karimam
Sample : jd91339-8
Misc : op55800,ect375,15.1,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

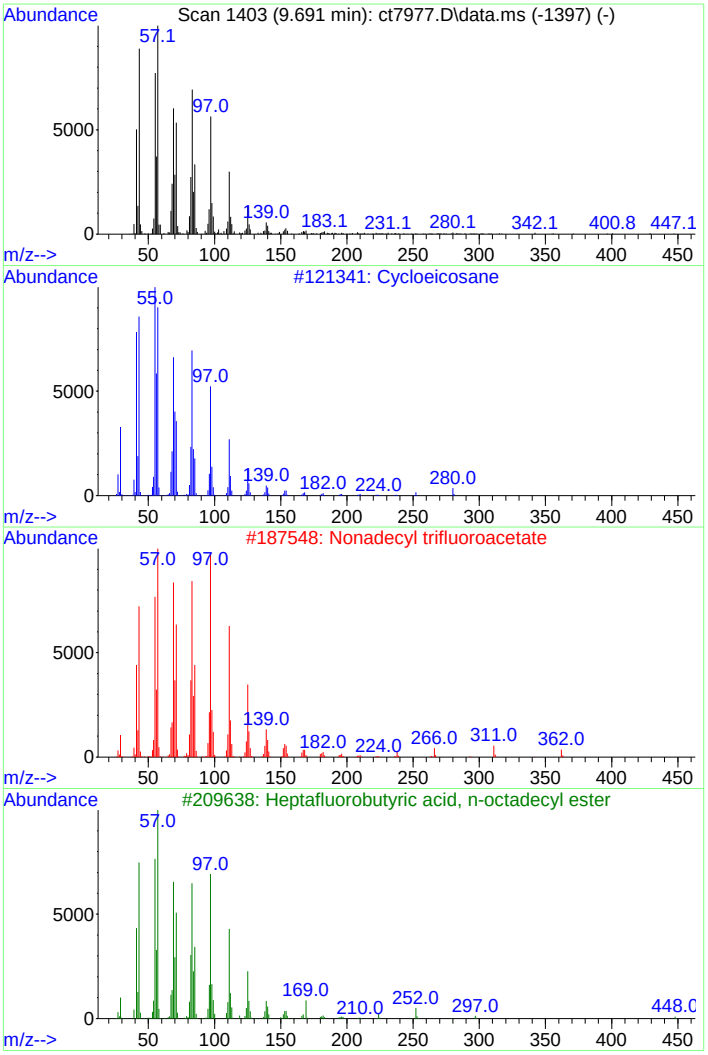
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

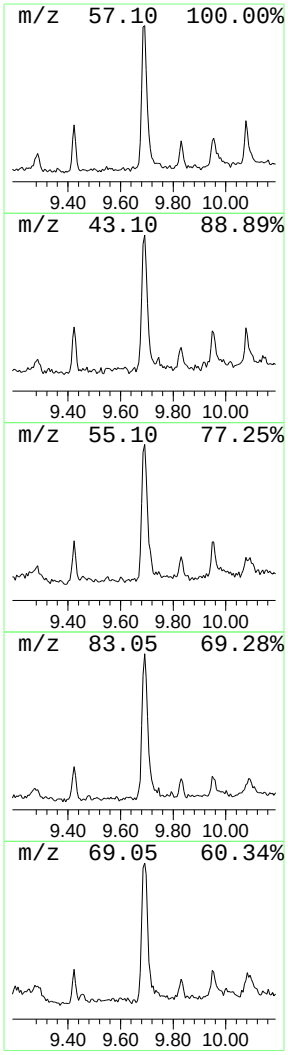
****

Peak Number 2 cycloalkane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.691	6.35 ppm	472500	Chrysene-d12	9.798

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cycloeicosane	280	C20H40	000296-56-0	96
2	Nonadecyl trifluoroacetate	380	C21H39F3O2	1000351-76-3	91
3	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	91
4	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91
5	Eicosyl pentafluoropropionate	444	C23H41F5O2	1000351-80-8	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7977.D
Acq On : 03 Jul 2024 01:50 pm
Operator : karimam
Sample : jd91339-8
Misc : op55800,ect375,15.1,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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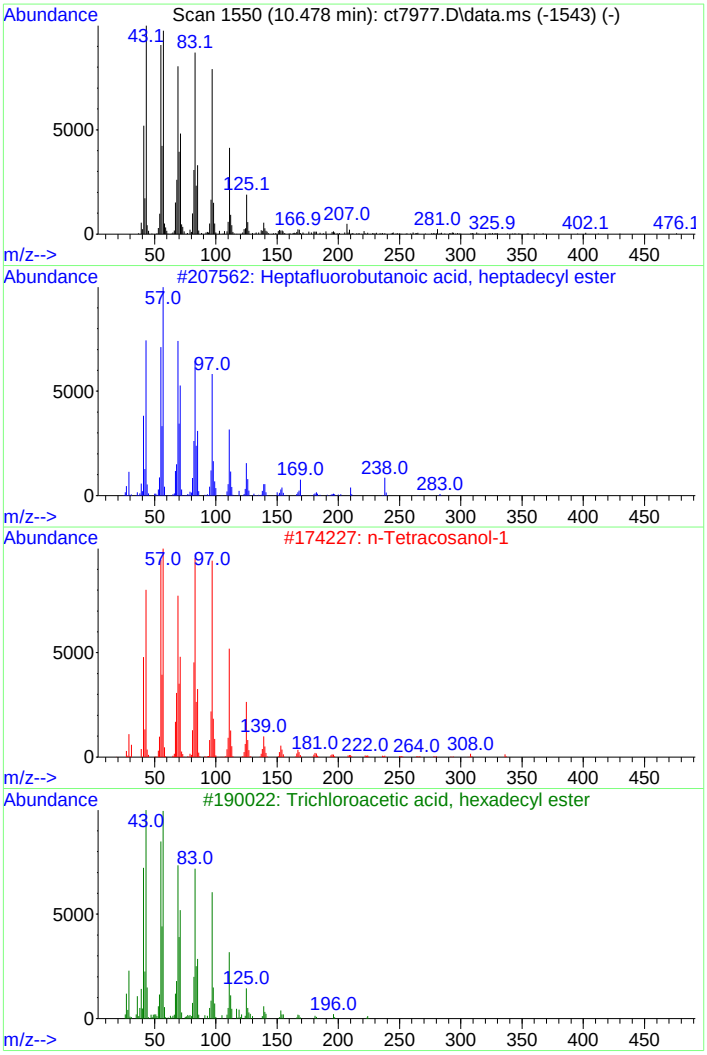
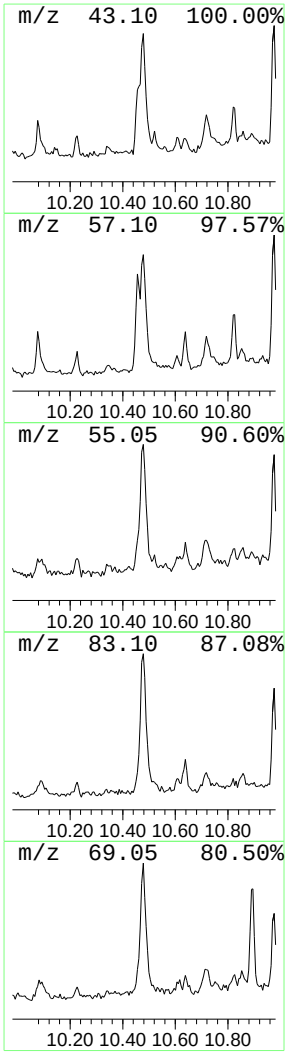
Peak Number 3 unknown acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.478	7.06 ppm	525169	Chrysene-d12a	9.798

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptafluorobutanoic acid, heptad...	452	C21H35F7O2	1000282-97-3	91
2	n-Tetracosanol-1	354	C24H50O	000506-51-4	91
3	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	91
4	1-Nonadecene	266	C19H38	018435-45-5	91
5	1-Heneicosyl formate	340	C22H44O2	077899-03-7	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7977.D
Acq On : 03 Jul 2024 01:50 pm
Operator : karimam
Sample : jd91339-8
Misc : op55800,ect375,15.1,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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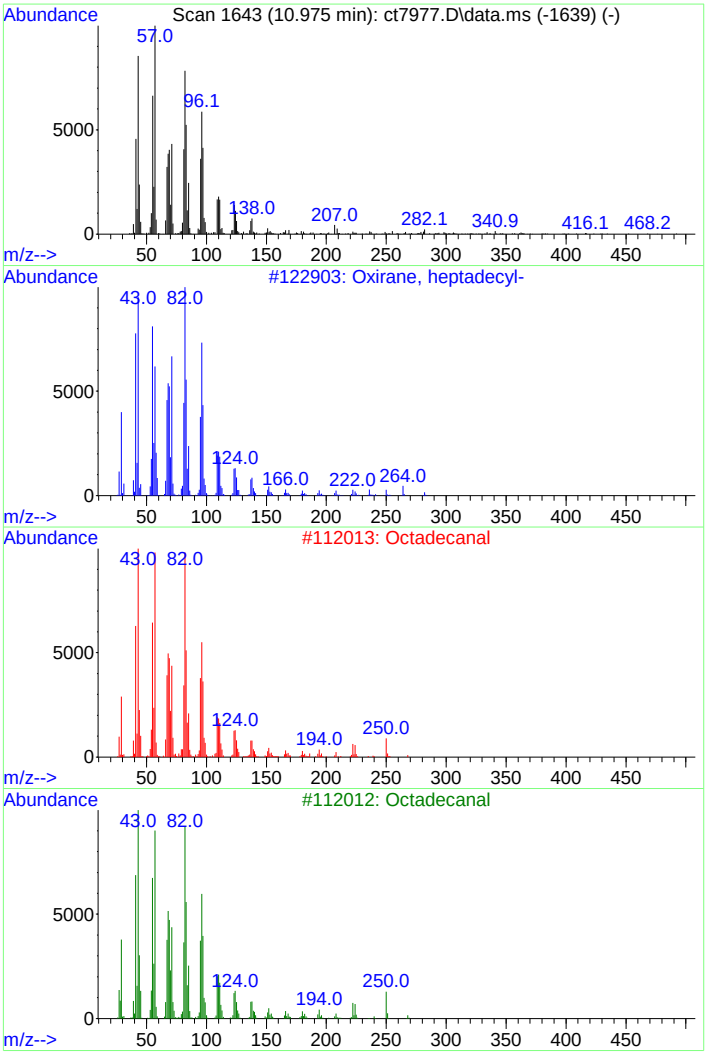
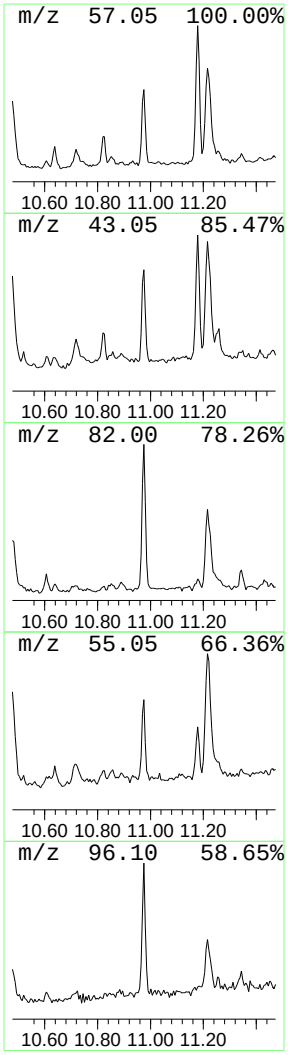
Peak Number 4 Octadecanal Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.975	4.01 ppm	300545	Perylene-d12	11.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	96
2	Octadecanal	268	C18H36O	000638-66-4	91
3	Octadecanal	268	C18H36O	000638-66-4	91
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	90
5	12-Octadecenal	266	C18H34O	056554-91-7	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7977.D
Acq On : 03 Jul 2024 01:50 pm
Operator : karimam
Sample : jd91339-8
Misc : op55800,ect375,15.1,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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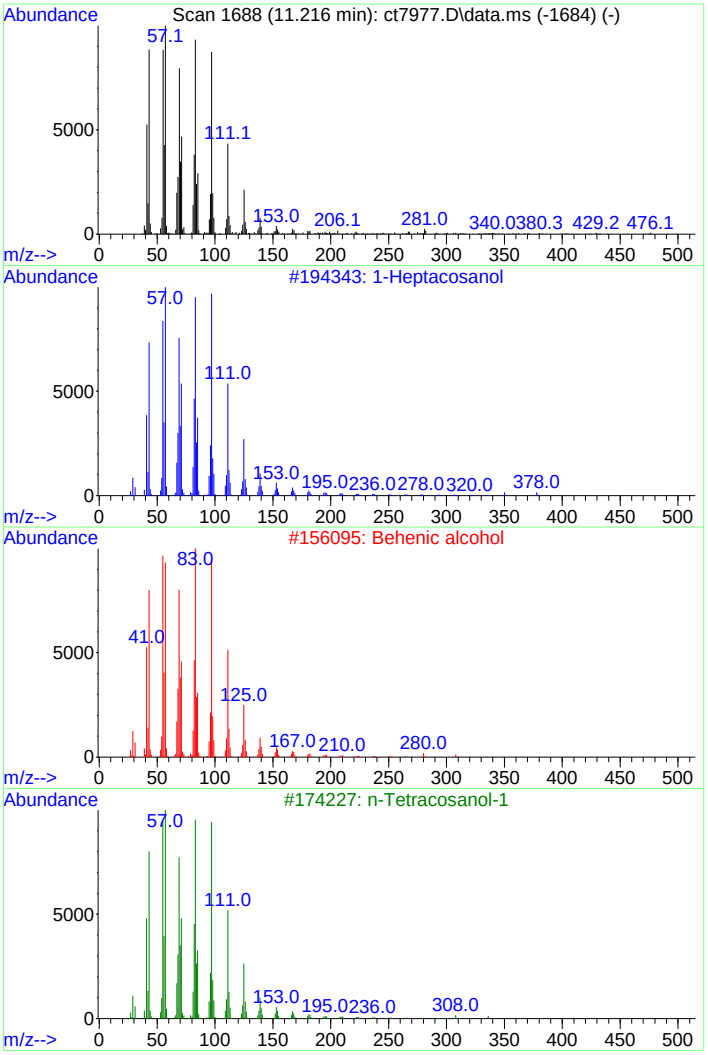
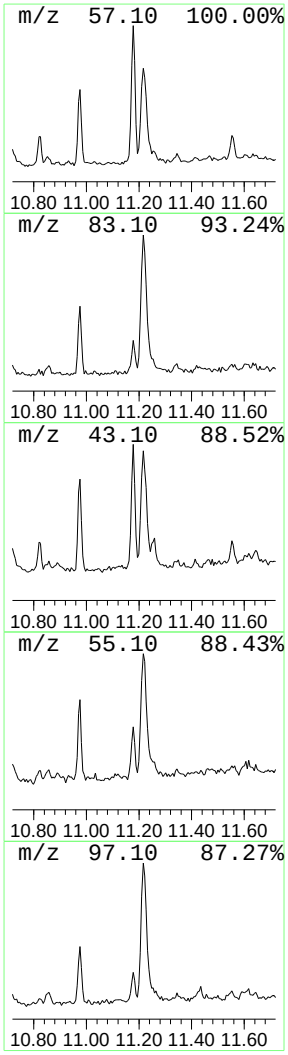
Peak Number 5 Heptacosanol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.216	8.82 ppm	661420	Perylene-d12	11.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heptacosanol	396	C27H56O	002004-39-9	95
2	Behenic alcohol	326	C22H46O	000661-19-8	94
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
4	1-Heneicosanol	312	C21H44O	015594-90-8	94
5	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7977.D
Acq On : 03 Jul 2024 01:50 pm
Operator : karimam
Sample : jd91339-8
Misc : op55800,ect375,15.1,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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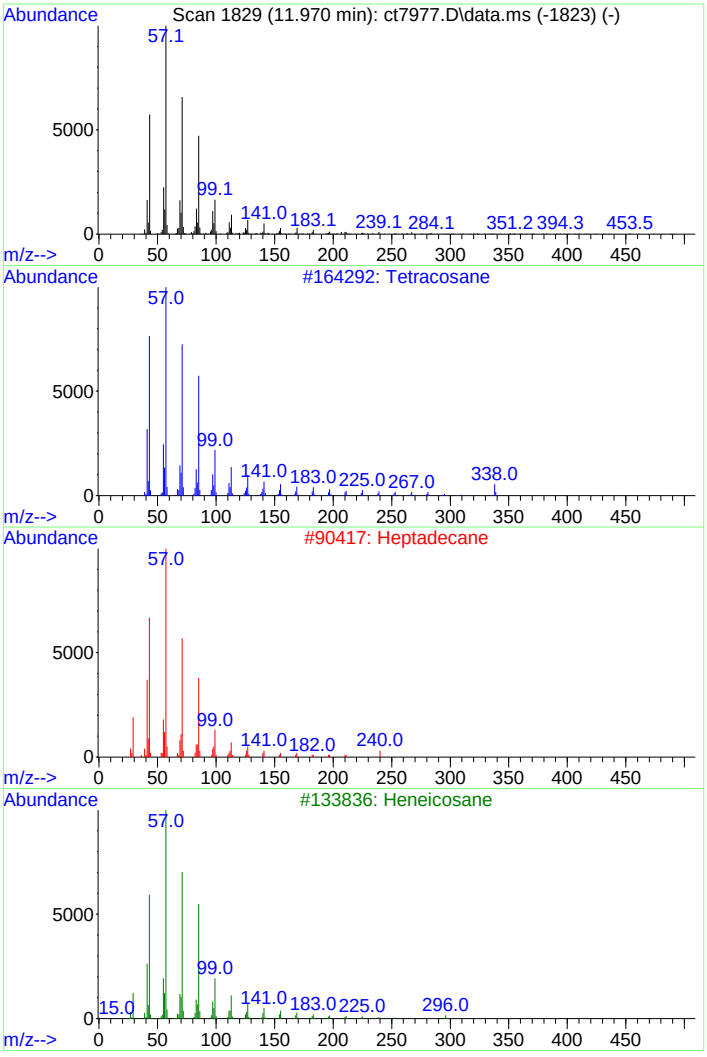
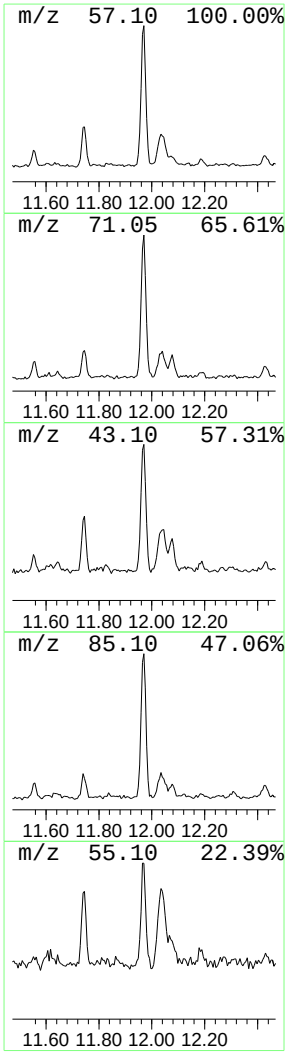
Peak Number 6 alkane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.970	7.17 ppm	537348	Perylene-d12	11.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	94
2	Heptadecane	240	C17H36	000629-78-7	93
3	Heneicosane	296	C21H44	000629-94-7	91
4	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	91
5	Tetratetracontane	619	C44H90	007098-22-8	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7977.D
Acq On : 03 Jul 2024 01:50 pm
Operator : karimam
Sample : jd91339-8
Misc : op55800,ect375,15.1,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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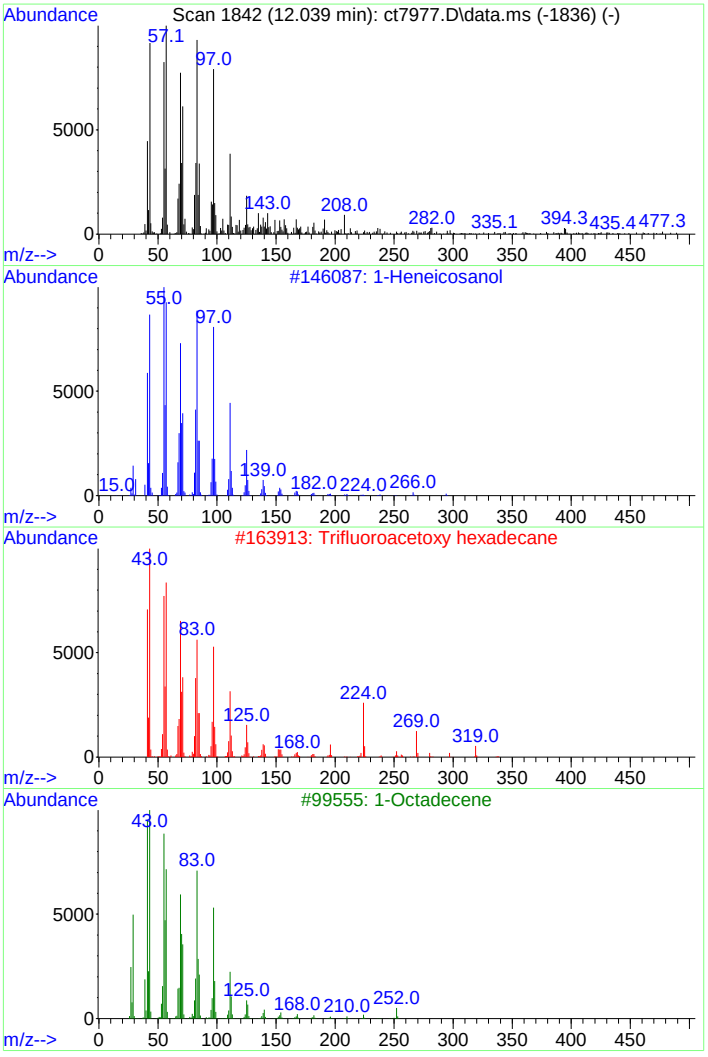
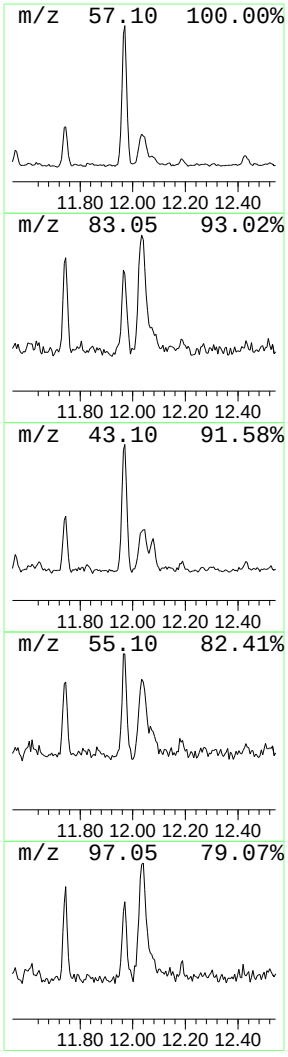
Peak Number 7 Heneicosanol Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.040	5.66 ppm	424351	Perylene-d12	11.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	93
2	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	81
3	1-Octadecene	252	C18H36	000112-88-9	70
4	Behenic alcohol	326	C22H46O	000661-19-8	64
5	Docosyl heptafluorobutyrate	522	C26H45F7O2	1000351-83-1	60





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7977.D
Acq On : 03 Jul 2024 01:50 pm
Operator : karimam
Sample : jd91339-8
Misc : op55800,ect375,15.1,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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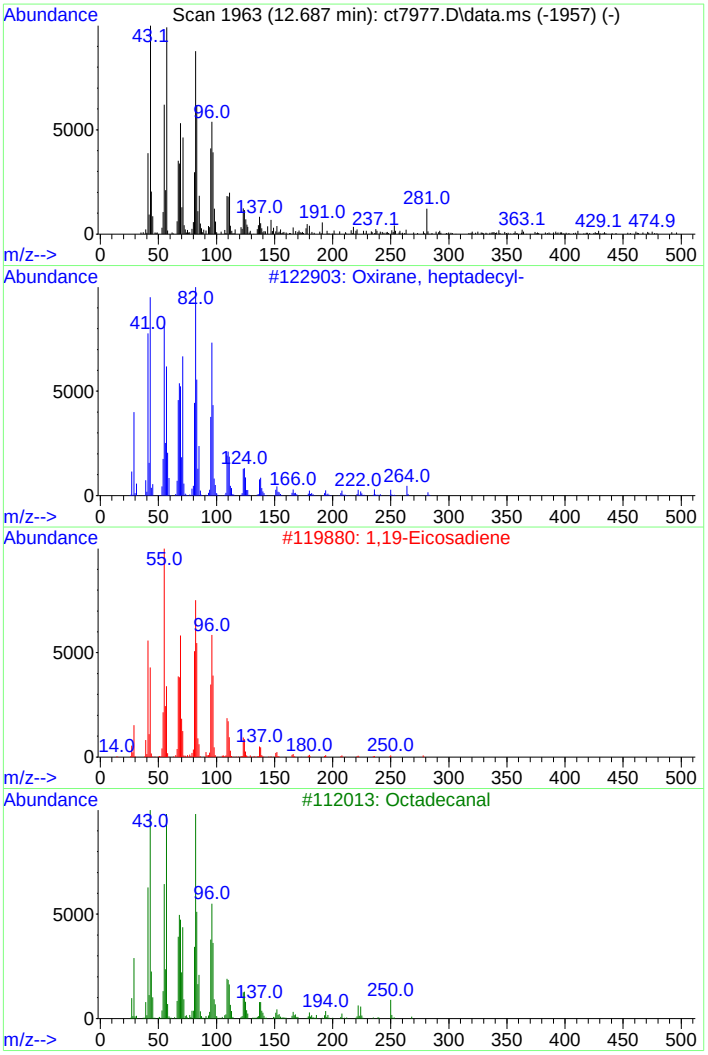
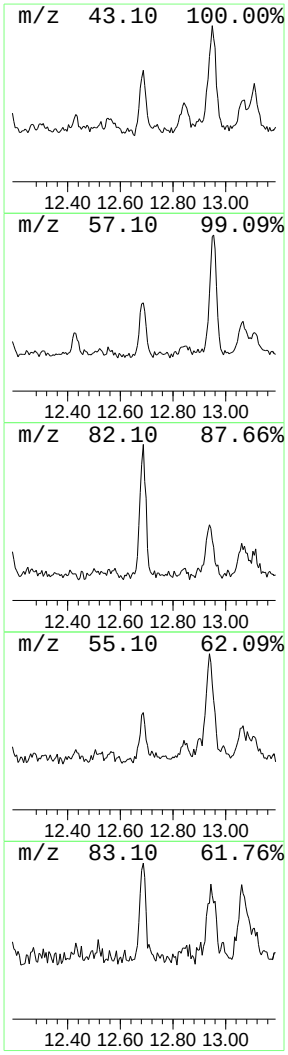
Peak Number 8 Oxirane, heptadecyl Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.687	4.04 ppm	302817	Perylene-d12	11.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	98
2	1,19-Eicosadiene	278	C20H38	014811-95-1	94
3	Octadecanal	268	C18H36O	000638-66-4	91
4	Octadecanal	268	C18H36O	000638-66-4	90
5	Hexadecanal	240	C16H32O	000629-80-1	83





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7977.D
Acq On : 03 Jul 2024 01:50 pm
Operator : karimam
Sample : jd91339-8
Misc : op55800,ect375,15.1,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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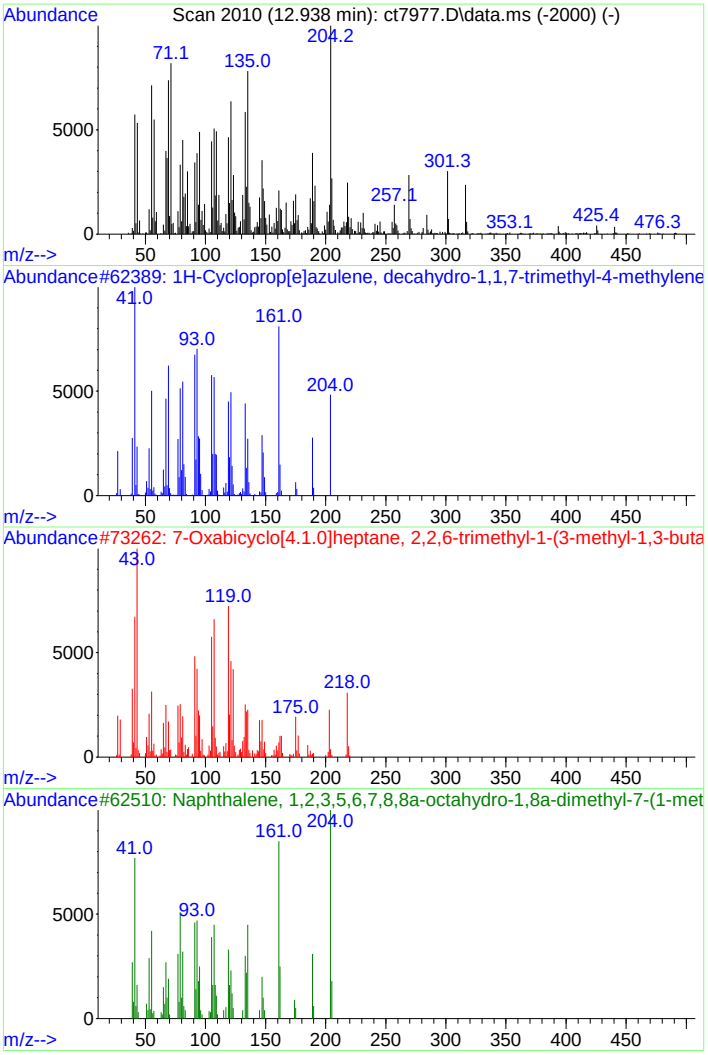
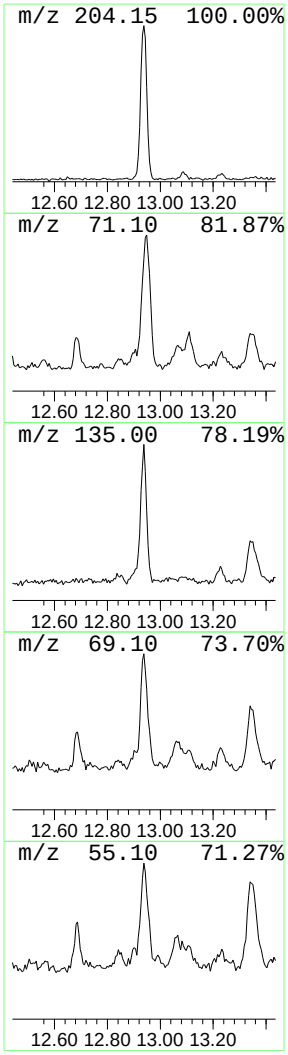
Peak Number 9 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.938	19.58 ppm	1468320	Perylene-d12	11.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cycloprop[e]azulene, decahydr...	204	C15H24	072747-25-2	64
2	7-Oxabicyclo[4.1.0]heptane, 2,2,...	218	C15H22O	070038-20-9	56
3	Naphthalene, 1,2,3,5,6,7,8,8a-oc...	204	C15H24	004630-07-3	52
4	1-Naphthalenecarboxylic acid, de...	316	C21H32O2	001235-39-8	49
5	1H-3a,7-Methanoazulene, octahydr...	204	C15H24	000508-55-4	49





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7977.D
Acq On : 03 Jul 2024 01:50 pm
Operator : karimam
Sample : jd91339-8
Misc : op55800,ect375,15.1,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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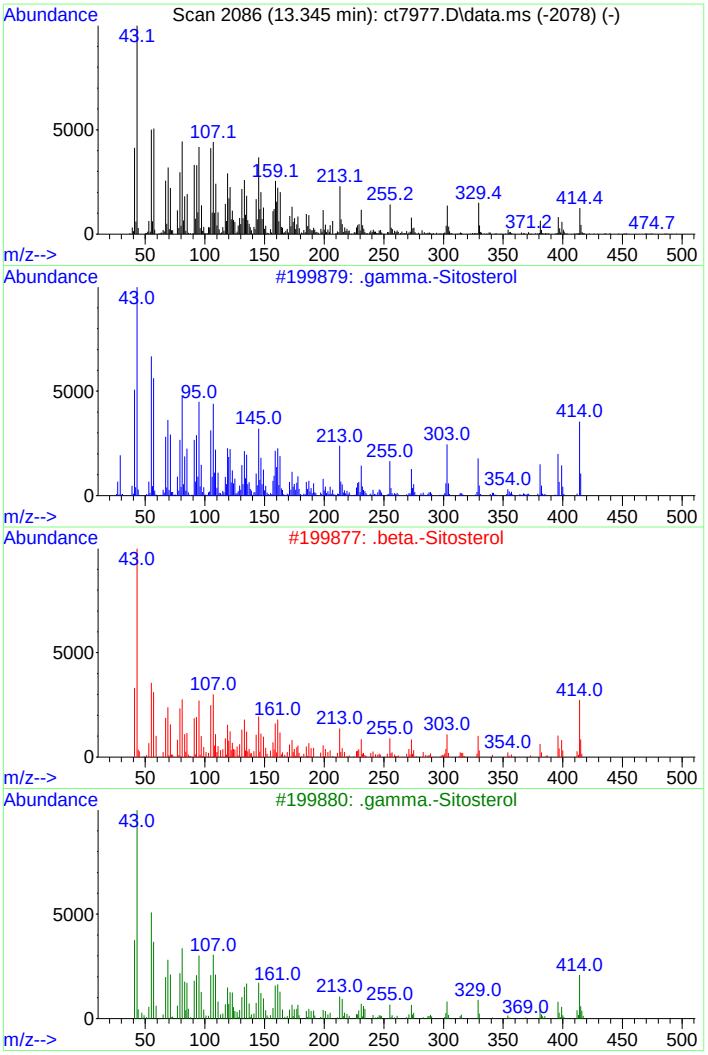
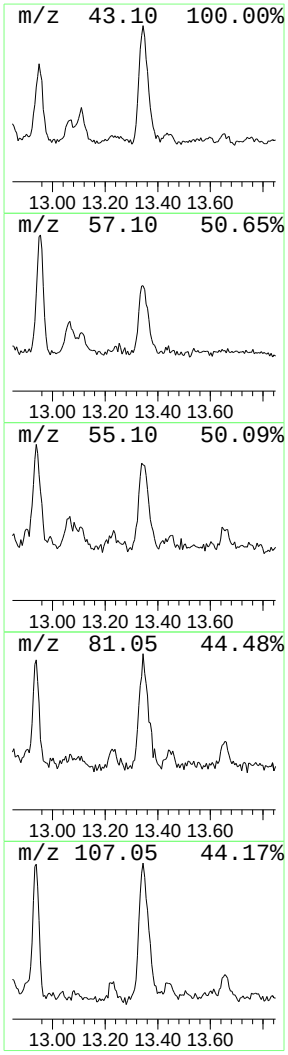
Peak Number 10 .gamma.-Sitosterol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.345	18.74 ppm	1405310	Perylene-d12	11.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	94
3	.gamma.-Sitosterol	414	C29H50O	000083-47-6	91
4	.beta.-Sitosterol	414	C29H50O	000083-46-5	90
5	Campesterol	400	C28H48O	000474-62-4	72





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7977.D
Acq On : 03 Jul 2024 01:50 pm
Operator : karimam
Sample : jd91339-8
Misc : op55800,ect375,15.1,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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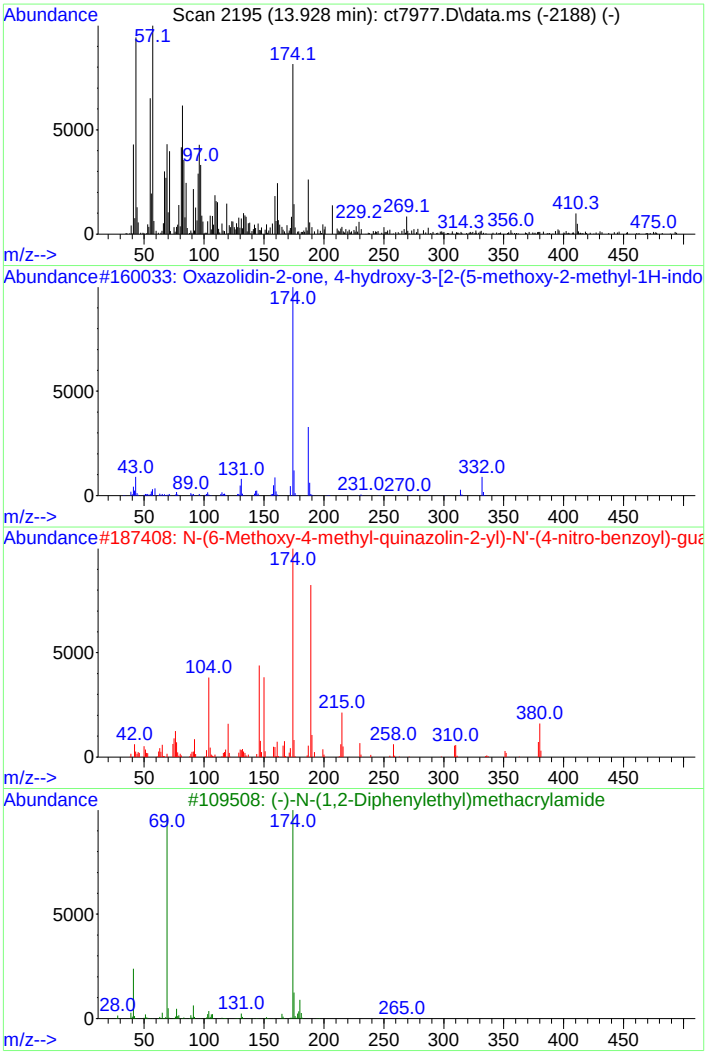
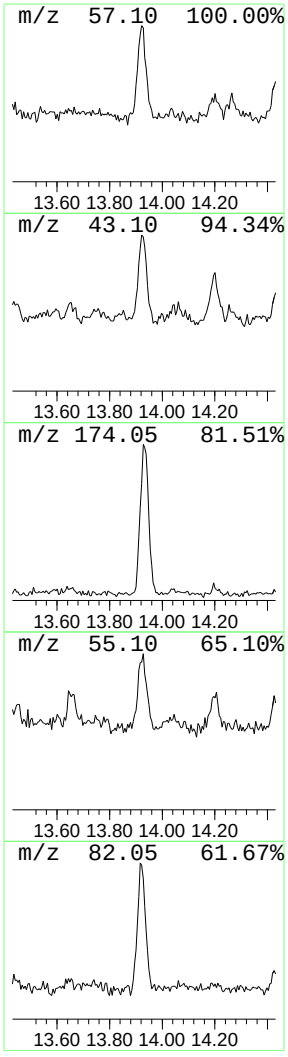
Peak Number 11 unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.928	6.08 ppm	456027	Perylene-d12	11.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxazolidin-2-one, 4-hydroxy-3-[2...	332	C18H24N2O4	1000310-03-3	22
2	N-(6-Methoxy-4-methyl-quinazolin...	380	C18H16N6O4	1000275-15-0	20
3	(-)-N-(1,2-Diphenylethyl)methacr...	265	C18H19NO	1000244-87-9	14
4	6-Indolizinecarboxamide, 2-methyl-	174	C10H10N2O	022380-20-7	14
5	Acetamide, 2,2,2-trifluoro-N-[2-...	300	C14H15F3N2O2	1000337-54-1	14





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7977.D
Acq On : 03 Jul 2024 01:50 pm
Operator : karimam
Sample : jd91339-8
Misc : op55800,ect375,15.1,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown	4.685	4.7	ppm	369660	4	4.289	3149780	40.0
cycloalkane	9.691	6.3	ppm	472500	9	9.798	2975370	40.0
unknown acid	10.478	7.1	ppm	525169	10	9.798	2975370	40.0
Octadecanal	10.975	4.0	ppm	300545	11	11.435	2999050	40.0
Heptacosanol	11.216	8.8	ppm	661420	11	11.435	2999050	40.0
alkane	11.970	7.2	ppm	537348	11	11.435	2999050	40.0
Heneicosanol	12.040	5.7	ppm	424351	11	11.435	2999050	40.0
Oxirane, heptad...	12.687	4.0	ppm	302817	11	11.435	2999050	40.0
unknown	12.938	19.6	ppm	1468320	11	11.435	2999050	40.0
.gamma.-Sitosterol	13.345	18.7	ppm	1405310	11	11.435	2999050	40.0
unknown	13.928	6.1	ppm	456027	11	11.435	2999050	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jacky Takeuchi 07/03/24 21:22

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9 Inst : GCMS_CT
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 03 20:10:04 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

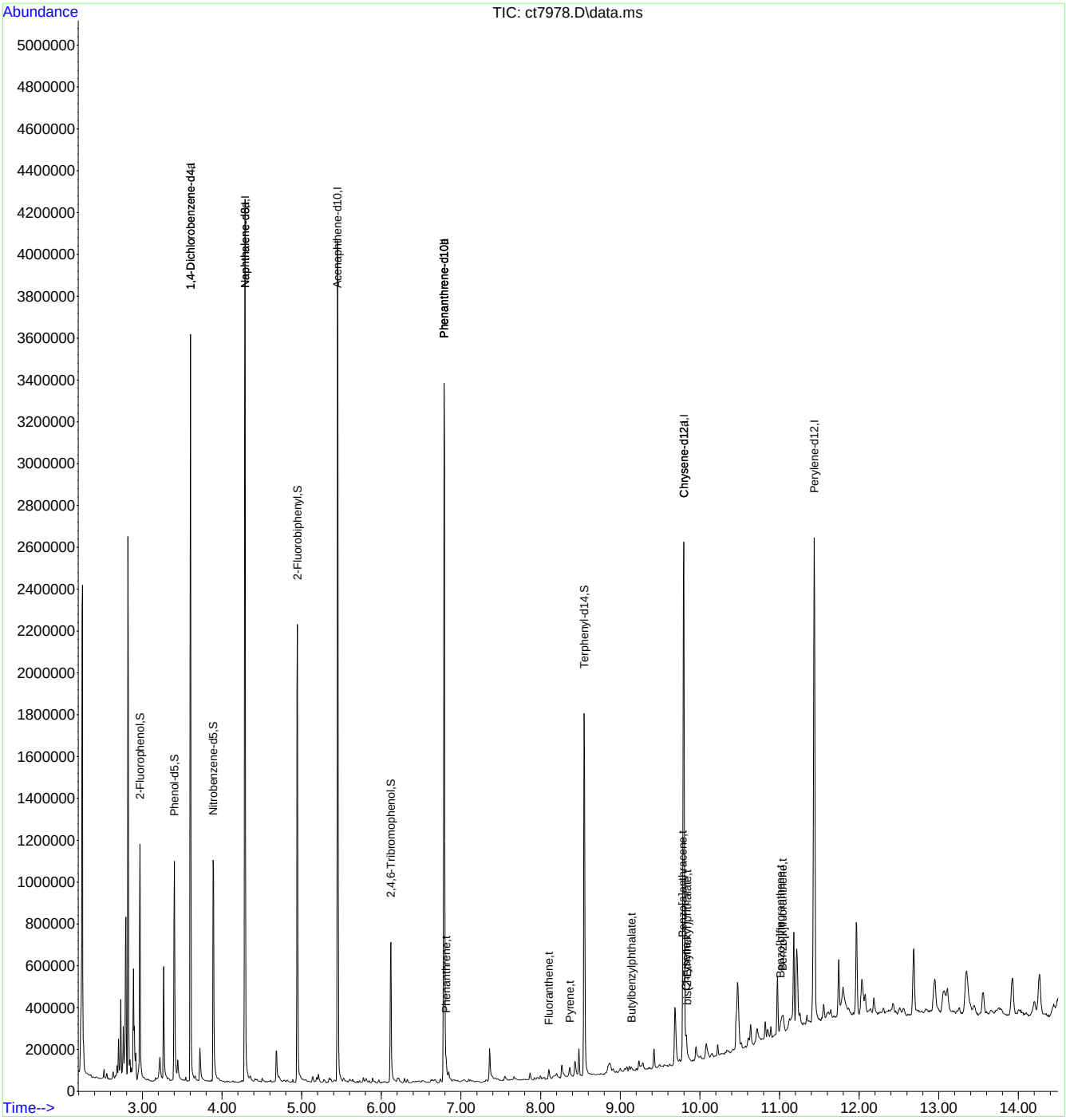
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.605	152	387178	40.00	ppm	0.00
24) Naphthalene-d8	4.289	136	1470401	40.00	ppm	0.00
46) Acenaphthene-d10	5.450	164	782490	40.00	ppm	0.00
69) Phenanthrene-d10	6.787	188	1270599	40.00	ppm	0.00
84) Chrysene-d12	9.798	240	908539	40.00	ppm	0.00
93) Perylene-d12	11.435	264	970979	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	3.605	152	387178	40.00	ppm	0.00
105) Phenanthrene-d10a	6.787	188	1270599	40.00	ppm	0.00
107) Naphthalene-d8a	4.289	136	1470401	40.00	ppm	0.00
109) Phenanthrene-d10b	6.787	188	1270599	40.00	ppm	0.00
112) Chrysene-d12a	9.798	240	908539	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.968	112	251821	20.16	ppm	0.00
Spiked Amount 50.000			Recovery = 40.32%			
8) Phenol-d5	3.401	99	327403	20.94	ppm	0.00
Spiked Amount 50.000			Recovery = 41.88%			
25) Nitrobenzene-d5	3.888	82	326585	21.60	ppm	0.00
Spiked Amount 50.000			Recovery = 43.20%			
51) 2-Fluorobiphenyl	4.947	172	583381	23.90	ppm	0.00
Spiked Amount 50.000			Recovery = 47.80%			
74) 2,4,6-Tribromophenol	6.119	330	65750	27.23	ppm	0.00
Spiked Amount 50.000			Recovery = 54.46%			
87) Terphenyl-d14	8.547	244	581595	25.83	ppm	0.00
Spiked Amount 50.000			Recovery = 51.66%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
78) Phenanthrene	6.814	178	13044	0.3992	ppm	99
82) Fluoranthene	8.103	202	20846	0.6670	ppm	97
86) Pyrene	8.365	202	21195	0.6569	ppm	98
88) Butylbenzylphthalate	9.141	149	1431	1.5948	ppm	81
89) Benzo[a]anthracene	9.782	228	11493	0.4062	ppm	97
91) Chrysene	9.825	228	10033	0.3618	ppm	93
92) bis(2-Ethylhexyl)phtha...	9.841	149	3080	1.6579	ppm	96
95) Benzo[b]fluoranthene	11.013	252	13957m	0.5063	ppm	
96) Benzo[k]fluoranthene	11.039	252	4867m	0.1790	ppm	

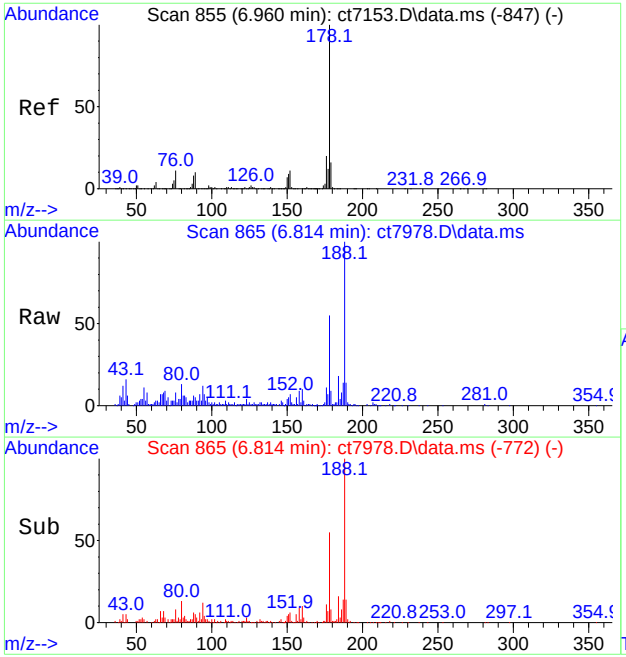
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9 Inst : GCMS_CT
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 03 20:10:04 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

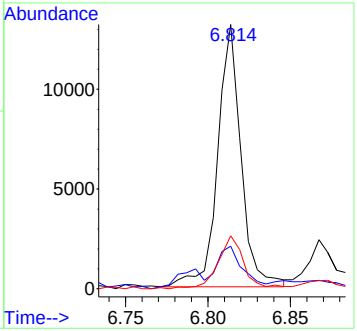


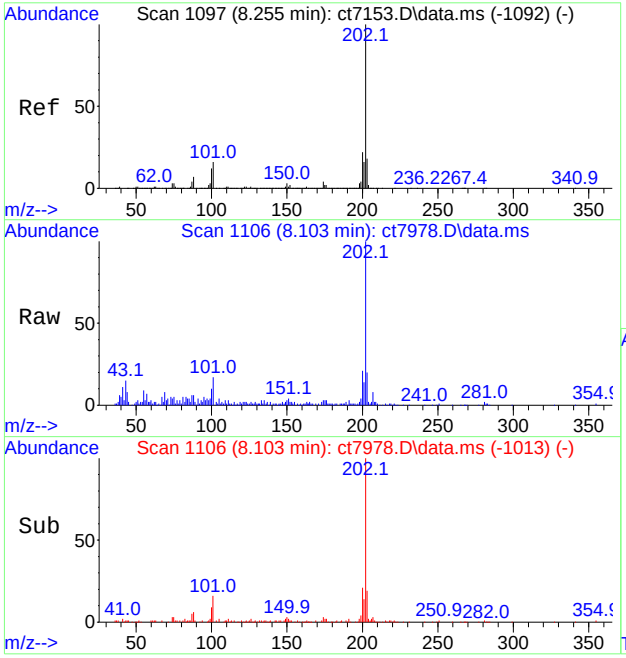


#78
Phenanthrene
Concen: 0.3992 ppm
RT: 6.814 min Scan# 865
Delta R.T. -0.005 min
Lab File: ct7978.D
Acq: 03 Jul 2024 02:09 pm

Tgt Ion:178 Resp: 13044

Ion	Ratio	Lower	Upper
178	100		
179	14.5	0.0	44.9
176	19.9	0.0	49.7

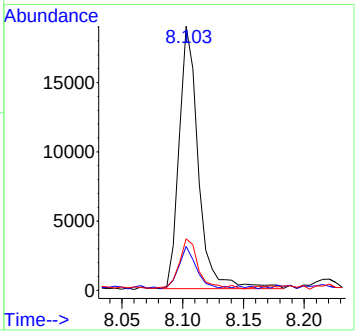


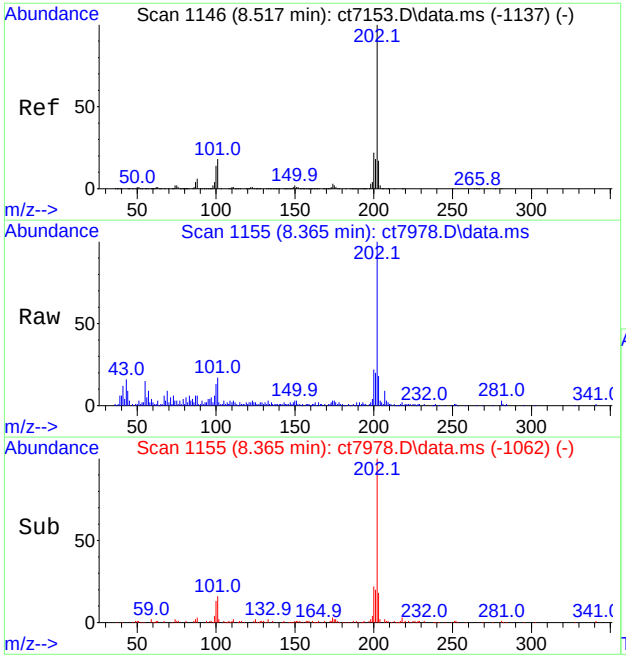


#82
Fluoranthene
Concen: 0.6670 ppm
RT: 8.103 min Scan# 1106
Delta R.T. -0.005 min
Lab File: ct7978.D
Acq: 03 Jul 2024 02:09 pm

Tgt Ion:202 Resp: 20846

Ion	Ratio	Lower	Upper
202	100		
101	15.6	0.0	43.5
203	18.2	0.0	47.6

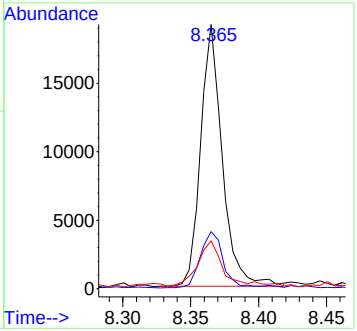


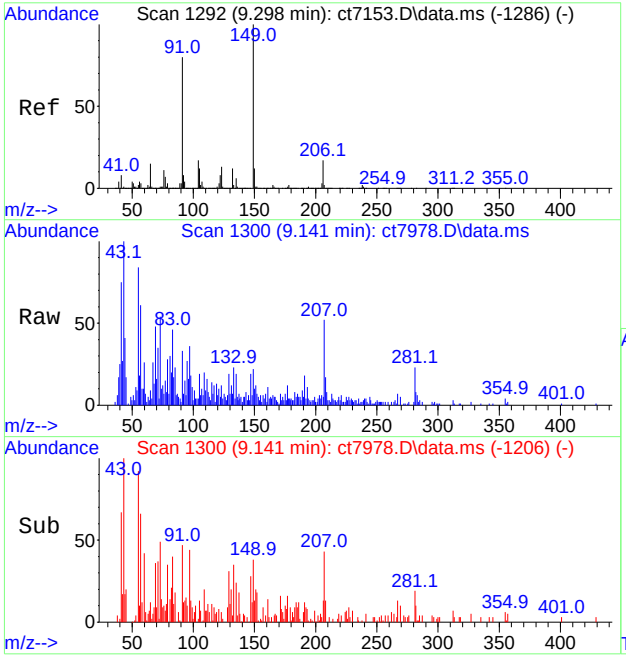


#86
Pyrene
Concen: 0.6569 ppm
RT: 8.365 min Scan# 1155
Delta R.T. -0.005 min
Lab File: ct7978.D
Acq: 03 Jul 2024 02:09 pm

Tgt Ion:202 Resp: 21195

Ion	Ratio	Lower	Upper
202	100		
200	21.5	0.0	52.6
203	17.0	0.0	47.9

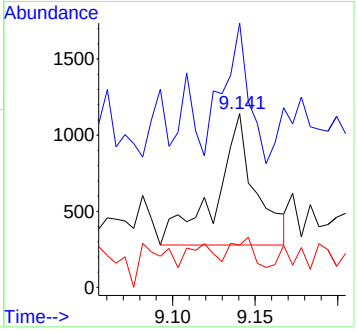


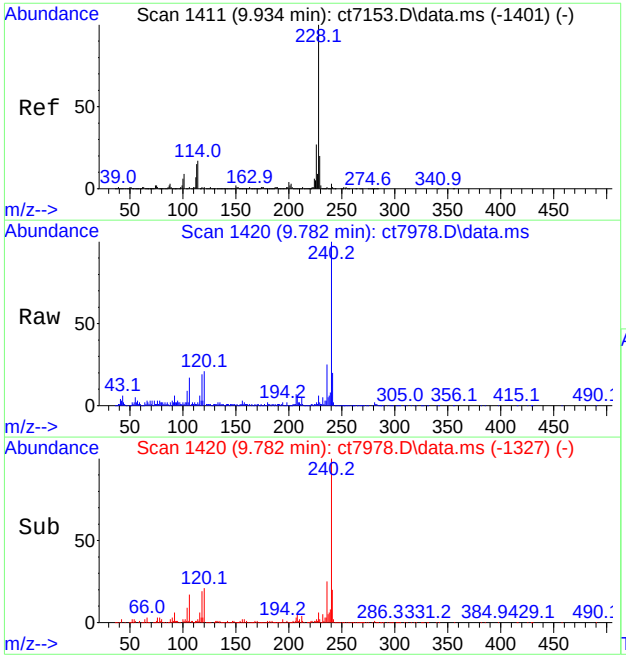


#88
Butylbenzylphthalate
Concen: 1.5948 ppm
RT: 9.141 min Scan# 1300
Delta R.T. 0.000 min
Lab File: ct7978.D
Acq: 03 Jul 2024 02:09 pm

Tgt Ion:149 Resp: 1431

Ion	Ratio	Lower	Upper
149	100		
91	65.0	49.4	109.4
206	5.0	0.0	47.9

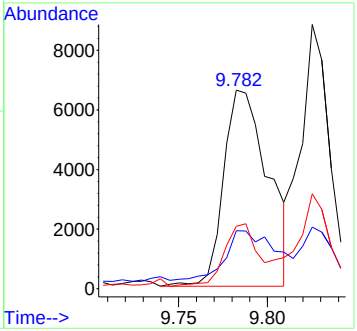


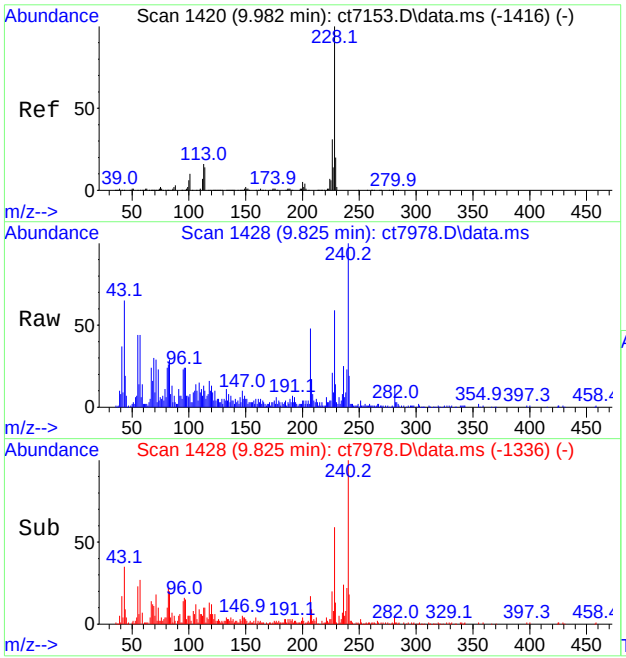


#89
Benzo[a]anthracene
Concen: 0.4062 ppm
RT: 9.782 min Scan# 1420
Delta R.T. -0.005 min
Lab File: ct7978.D
Acq: 03 Jul 2024 02:09 pm

Tgt Ion:228 Resp: 11493

Ion	Ratio	Lower	Upper
228	100		
229	21.8	0.0	50.1
226	27.2	0.0	58.0

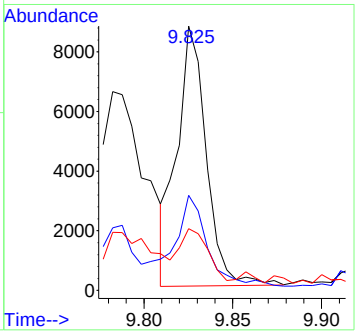


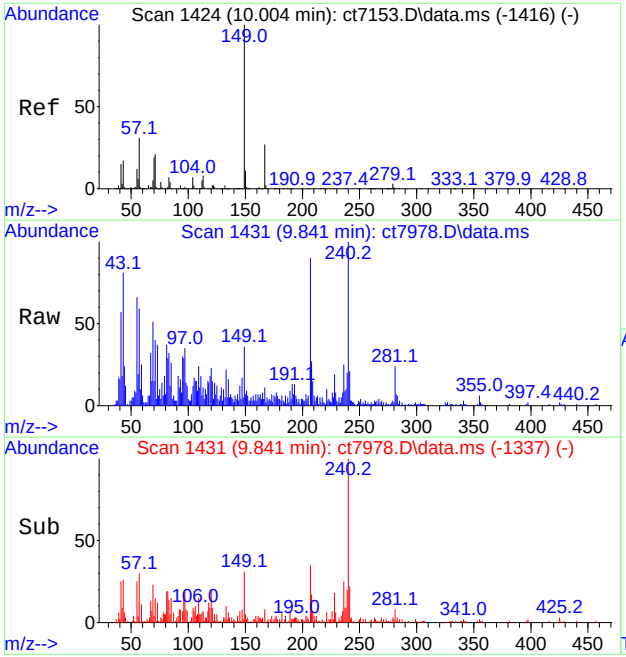


#91
Chrysene
Concen: 0.3618 ppm
RT: 9.825 min Scan# 1428
Delta R.T. -0.011 min
Lab File: ct7978.D
Acq: 03 Jul 2024 02:09 pm

Tgt Ion:228 Resp: 10033

Ion	Ratio	Lower	Upper
228	100		
226	35.4	1.3	61.3
229	17.0	0.0	50.3

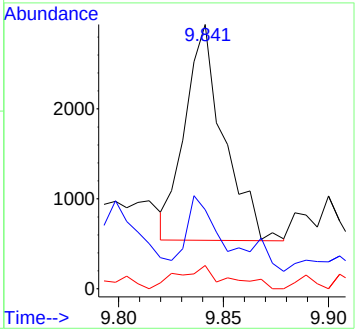


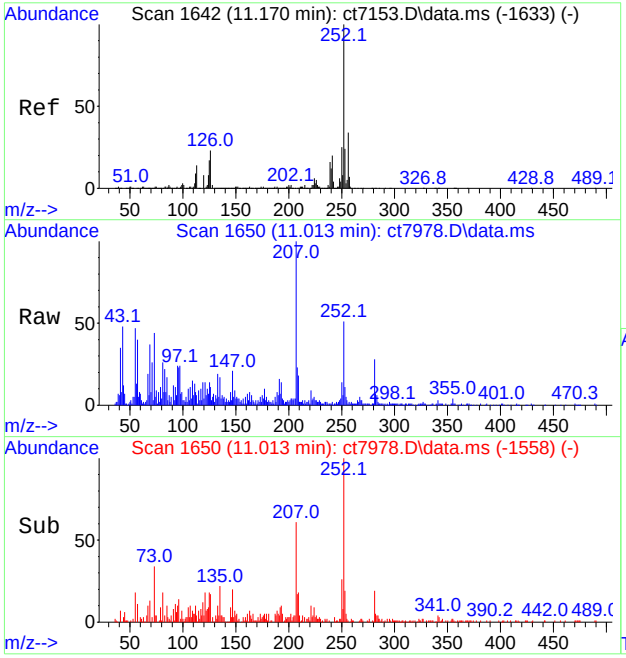


#92
bis(2-Ethylhexyl)phthalate
Concen: 1.6579 ppm
RT: 9.841 min Scan# 1431
Delta R.T. 0.000 min
Lab File: ct7978.D
Acq: 03 Jul 2024 02:09 pm

Tgt Ion:149 Resp: 3080

Ion	Ratio	Lower	Upper
149	100		
167	27.3	0.0	56.3
279	10.1	0.0	33.6

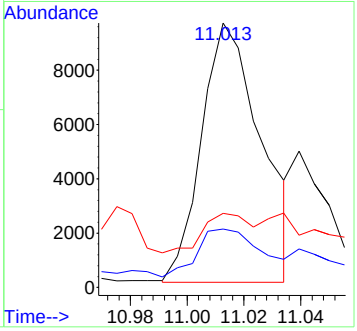


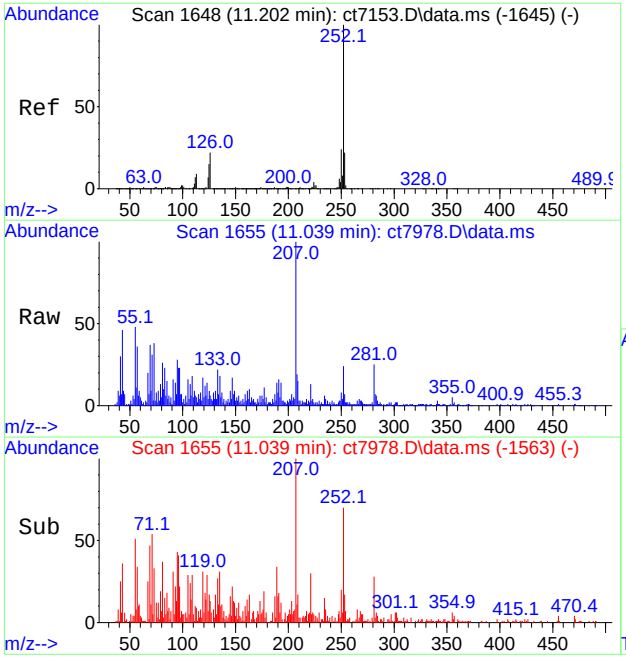


#95
Benzo[b]fluoranthene
Concen: 0.5063 ppm m
RT: 11.013 min Scan# 1650
Delta R.T. -0.011 min
Lab File: ct7978.D
Acq: 03 Jul 2024 02:09 pm

Tgt Ion:252 Resp: 13957

Ion	Ratio	Lower	Upper
252	100		
253	22.0	0.0	52.7
125	28.0	0.0	42.1

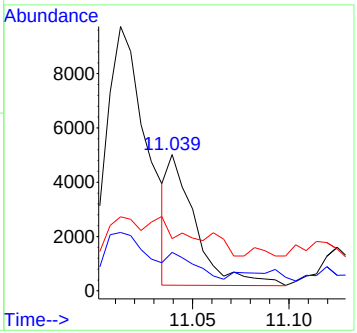




#96
Benzo[k]fluoranthene
Concen: 0.1790 ppm m
RT: 11.039 min Scan# 1655
Delta R.T. -0.011 min
Lab File: ct7978.D
Acq: 03 Jul 2024 02:09 pm

Tgt Ion:252 Resp: 4867

Ion	Ratio	Lower	Upper
252	100		
253	28.1	0.0	53.4
125	38.3	0.0	43.7



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: ct7978.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.134	358	364	368	rVB9	8022	11402	0.33%	0.038%
2	4.247	377	385	387	rBV7	11771	16533	0.48%	0.055%
3	4.289	387	393	402	rBV	4218633	3090295	90.23%	10.232%
4	4.353	402	405	413	rVB2	26921	38239	1.12%	0.127%
5	4.412	413	416	419	rBV	13219	14402	0.42%	0.048%
6	4.503	430	433	440	rVB5	19257	21516	0.63%	0.071%
7	4.680	458	466	481	rBV	149565	204768	5.98%	0.678%
8	4.776	481	484	489	rVB7	8567	12582	0.37%	0.042%
9	4.813	489	491	500	rVB10	10596	17164	0.50%	0.057%
10	4.888	500	505	509	rBV2	13924	12055	0.35%	0.040%
11	4.947	509	516	534	rBV	2188545	1829409	53.41%	6.057%
12	5.140	548	552	556	rBV	26534	28225	0.82%	0.093%
13	5.209	556	565	573	rVB4	39680	71139	2.08%	0.236%
14	5.279	573	578	584	rVB6	16649	22908	0.67%	0.076%
15	5.348	584	591	593	rBV3	23629	30429	0.89%	0.101%
16	5.413	598	603	606	rVV4	9467	13679	0.40%	0.045%
17	5.450	606	610	622	rVV	4021866	3424969	100.00%	11.340%
18	5.525	622	624	635	rVB3	19444	30540	0.89%	0.101%
19	5.605	635	639	643	rBV6	14090	20208	0.59%	0.067%
20	5.637	644	645	653	rVB5	16108	19017	0.56%	0.063%
21	5.776	667	671	673	rBV	21695	18674	0.55%	0.062%
22	5.808	673	677	683	rVB3	17948	24120	0.70%	0.080%
23	5.889	688	692	701	rVB5	23083	32321	0.94%	0.107%
24	5.969	701	707	710	rBV2	14717	14563	0.43%	0.048%
25	6.119	729	735	748	rBV	671362	692975	20.23%	2.294%
26	6.215	748	753	762	rVB5	23974	51349	1.50%	0.170%
27	6.290	762	767	771	rBV5	21569	22501	0.66%	0.075%
28	6.327	771	774	778	rVB5	18487	19346	0.56%	0.064%
29	6.402	780	788	791	rBV10	8194	14867	0.43%	0.049%
30	6.514	806	809	819	rVB10	8654	19526	0.57%	0.065%
31	6.627	825	830	831	rBV4	13647	12364	0.36%	0.041%
32	6.669	836	838	847	rVB6	16441	26961	0.79%	0.089%
33	6.744	847	852	855	rBV5	19405	25955	0.76%	0.086%
34	6.787	855	860	869	rBV	3341705	3350721	97.83%	11.094%
35	6.846	869	871	879	rVV3	45489	56399	1.65%	0.187%
36	6.905	879	882	885	rVV4	7726	10720	0.31%	0.035%
37	7.039	898	907	913	rVB4	10425	22501	0.66%	0.075%
38	7.097	913	918	920	rBV5	12092	10812	0.32%	0.036%
39	7.210	936	939	947	rVB9	8400	17948	0.52%	0.059%
40	7.290	947	954	955	rBV7	7520	11413	0.33%	0.038%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	7.317	955	959	963	rBV7	10050	13629	0.40%	0.045%
42	7.359	963	967	978	rBV3	156690	218614	6.38%	0.724%
43	7.461	984	986	996	rVB10	10050	16617	0.49%	0.055%
44	7.552	996	1003	1011	rBV5	21544	40424	1.18%	0.134%
45	7.670	1020	1025	1034	rVB5	16279	27401	0.80%	0.091%
46	7.868	1058	1062	1068	rBV2	33508	38354	1.12%	0.127%
47	7.926	1068	1073	1076	rBV5	11556	13258	0.39%	0.044%
48	7.964	1076	1080	1083	rVV6	10858	13570	0.40%	0.045%
49	7.996	1083	1086	1089	rVB4	15198	12396	0.36%	0.041%
50	8.044	1091	1095	1098	rVB5	11778	16139	0.47%	0.053%
51	8.103	1099	1106	1112	rBV	45224	50523	1.48%	0.167%
52	8.199	1112	1124	1133	rBV	24930	72277	2.11%	0.239%
53	8.269	1133	1137	1149	rBV2	62990	115694	3.38%	0.383%
54	8.365	1149	1155	1163	rBV	46175	67359	1.97%	0.223%
55	8.429	1163	1167	1173	rBV2	72332	109944	3.21%	0.364%
56	8.483	1173	1177	1184	rVB	129432	127175	3.71%	0.421%
57	8.547	1184	1189	1207	rBV	1732554	1810176	52.85%	5.994%
58	8.868	1237	1249	1254	rBV6	53256	156587	4.57%	0.518%
59	9.002	1268	1274	1280	rBV10	21641	35420	1.03%	0.117%
60	9.060	1281	1285	1287	rVV5	15424	19263	0.56%	0.064%
61	9.082	1287	1289	1292	rVB3	22042	21008	0.61%	0.070%
62	9.114	1292	1295	1297	rBV2	24398	23571	0.69%	0.078%
63	9.135	1297	1299	1304	rVB6	16266	22064	0.64%	0.073%
64	9.237	1314	1318	1320	rBV2	44510	47545	1.39%	0.157%
65	9.285	1324	1327	1334	rVB5	32683	41348	1.21%	0.137%
66	9.424	1349	1353	1357	rBV	92634	92638	2.70%	0.307%
67	9.494	1363	1366	1369	rVB5	11156	10991	0.32%	0.036%
68	9.552	1375	1377	1386	rBV10	10624	22126	0.65%	0.073%
69	9.686	1397	1402	1410	rBV	275757	405080	11.83%	1.341%
70	9.798	1416	1423	1442	rVB	2482155	2961859	86.48%	9.807%
71	9.954	1447	1452	1458	rBV3	67661	109996	3.21%	0.364%
72	10.082	1471	1476	1484	rBV3	70503	126860	3.70%	0.420%
73	10.221	1499	1502	1506	rBV2	53087	54671	1.60%	0.181%
74	10.472	1541	1549	1556	rBV2	321308	646363	18.87%	2.140%
75	10.606	1570	1574	1577	rBV5	46226	69312	2.02%	0.229%
76	10.638	1577	1580	1587	rVB2	99850	116523	3.40%	0.386%
77	10.718	1590	1595	1604	rVV6	65554	147206	4.30%	0.487%
78	10.820	1610	1614	1617	rBV	84083	84175	2.46%	0.279%
79	10.852	1618	1620	1624	rVV4	42176	48430	1.41%	0.160%
80	10.890	1625	1627	1632	rVB	50285	45514	1.33%	0.151%
81	10.975	1638	1643	1647	rBV	280339	268224	7.83%	0.888%
82	11.045	1647	1656	1662	rVV6	79516	223744	6.53%	0.741%
83	11.125	1668	1671	1673	rBV3	33340	38633	1.13%	0.128%
84	11.178	1676	1681	1684	rVB	426339	428450	12.51%	1.419%
85	11.216	1684	1688	1694	rBV	343216	510278	14.90%	1.690%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	11.344	1709	1712	1716	rBV5	46321	53535	1.56%	0.177%
87	11.435	1722	1729	1745	rBV	2315446	2929919	85.55%	9.701%
88	11.553	1748	1751	1755	rVV2	66978	73714	2.15%	0.244%
89	11.745	1782	1787	1791	rBV	272270	359903	10.51%	1.192%
90	11.799	1793	1797	1808	rVB8	115761	274434	8.01%	0.909%
91	11.965	1823	1828	1835	rVB	439230	569643	16.63%	1.886%
92	12.034	1835	1841	1846	rBV5	167765	344149	10.05%	1.139%
93	12.184	1866	1869	1878	rVB5	79711	125167	3.65%	0.414%
94	12.687	1957	1963	1972	rBV	313042	515529	15.05%	1.707%
95	12.949	2006	2012	2025	rVB2	159350	366010	10.69%	1.212%
96	13.067	2027	2034	2037	rBV6	98237	229811	6.71%	0.761%
97	13.350	2080	2087	2099	rBV6	189398	525602	15.35%	1.740%
98	13.559	2121	2126	2133	rVB3	95519	169125	4.94%	0.560%
99	13.922	2188	2194	2202	rBV5	168750	342717	10.01%	1.135%
100	14.265	2252	2258	2267	rVB2	188835	395844	11.56%	1.311%

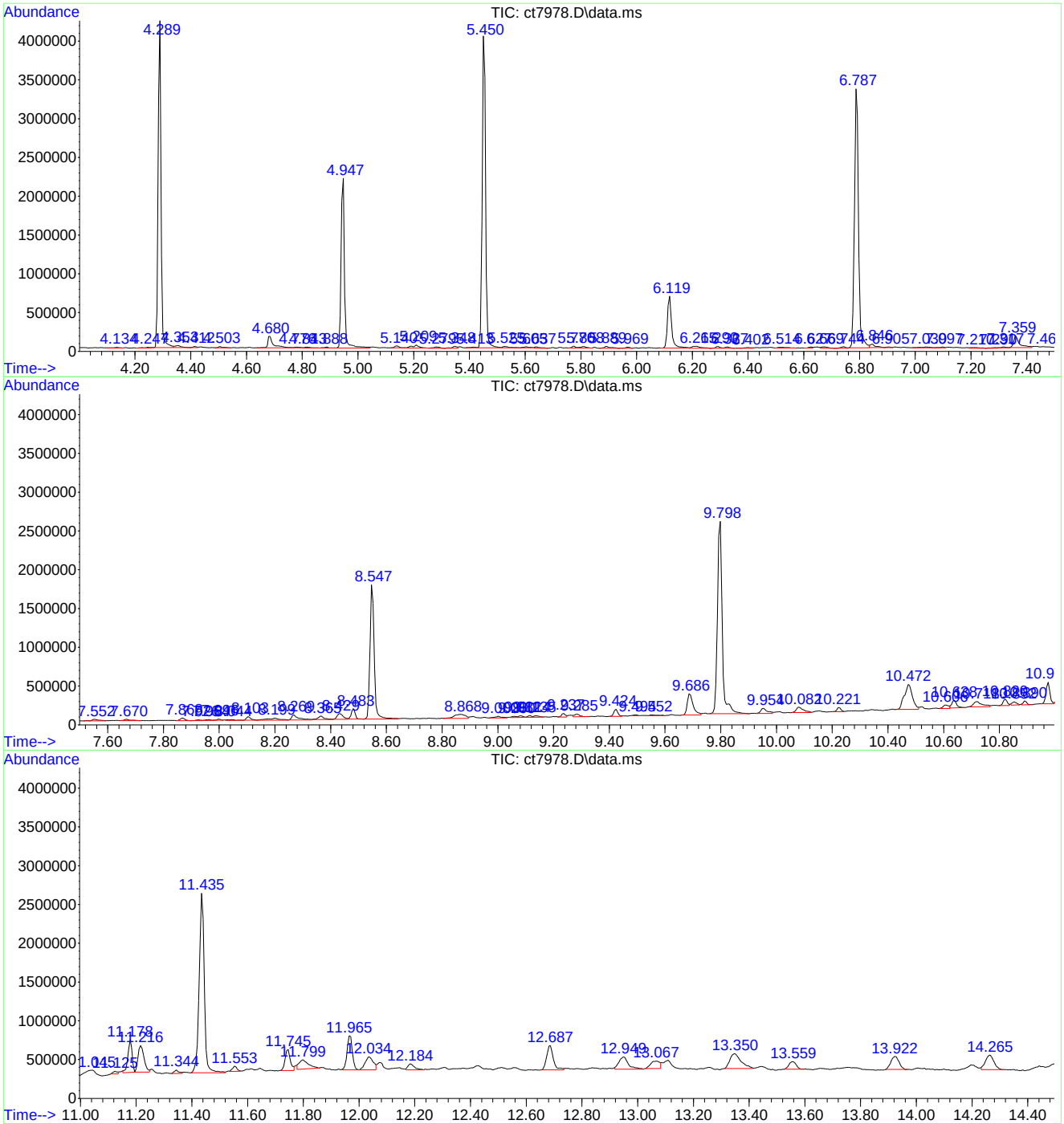
Sum of corrected areas: 30202046

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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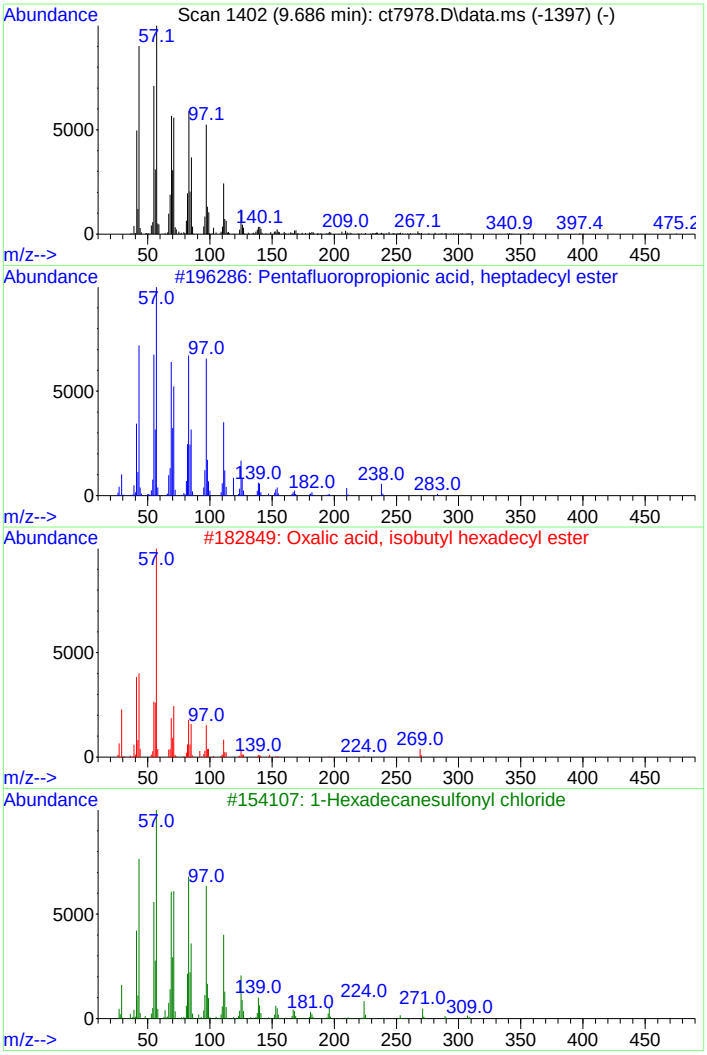
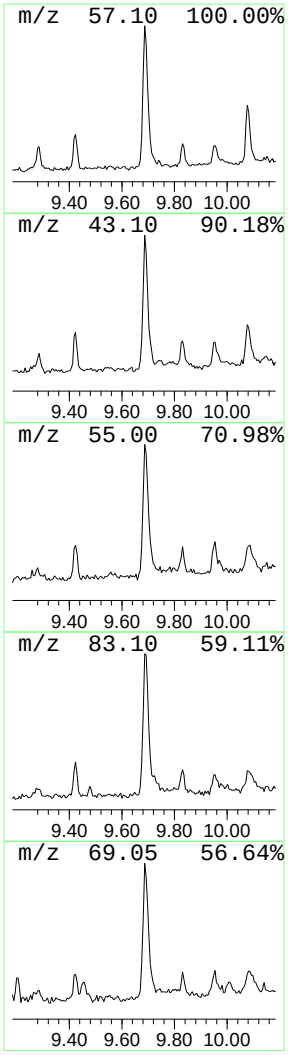
Peak Number 1 unknown acid Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.686	5.47 ppm	405080	Chrysene-d12	9.798

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	1000283-04-2	91
2	Oxalic acid, isobutyl hexadecyl ...	370	C22H42O4	1000309-38-1	91
3	1-Hexadecanesulfonyl chloride	324	C16H33ClO2S	038775-38-1	91
4	Ethanol, 2-(tetradecyloxy)-	258	C16H34O2	002136-70-1	90
5	Heptafluorobutanoic acid, heptad...	452	C21H35F7O2	1000282-97-3	87





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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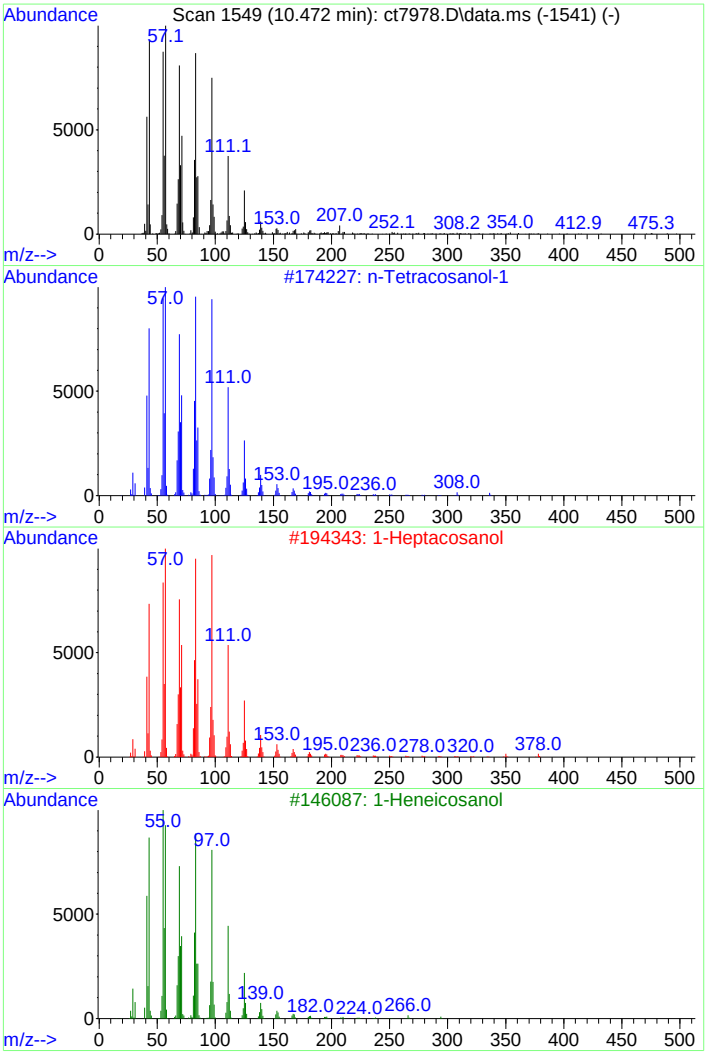
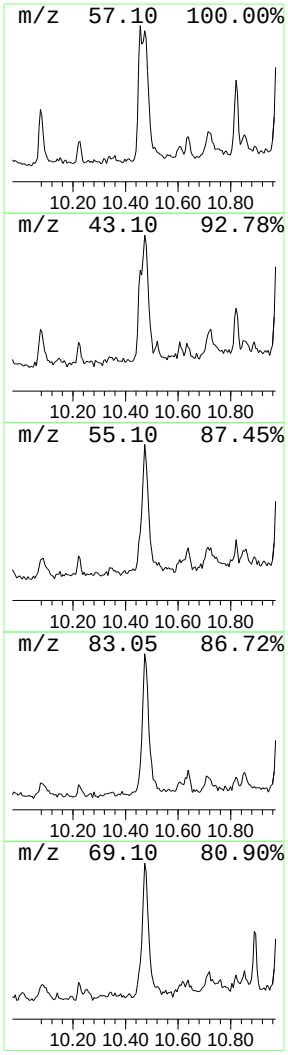
Peak Number 2 unknown alcohol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.472	8.73 ppm	646363	Chrysene-d12a	9.798

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
2	1-Heptacosanol	396	C27H56O	002004-39-9	91
3	1-Heneicosanol	312	C21H44O	015594-90-8	91
4	1-Heneicosyl formate	340	C22H44O2	077899-03-7	91
5	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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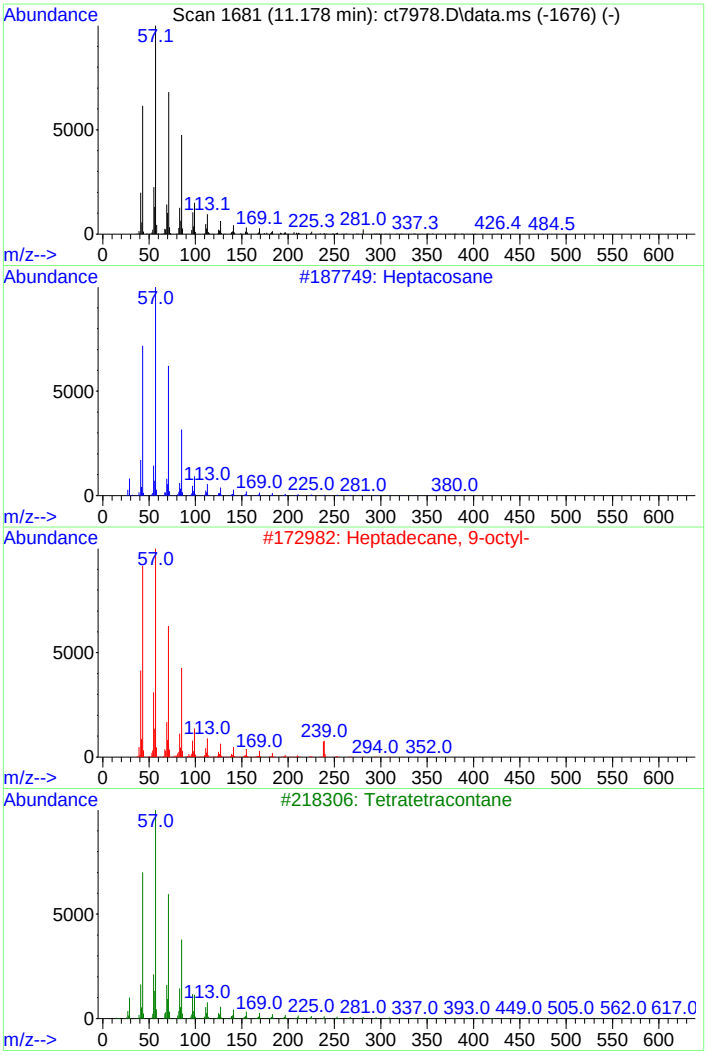
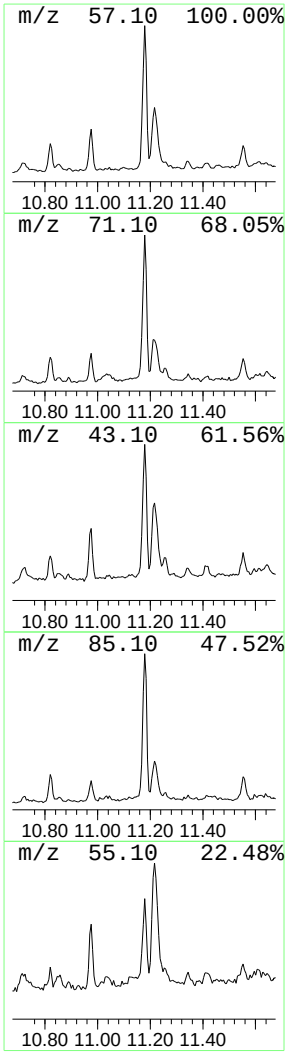
Peak Number 3 alkane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.178	5.85 ppm	428450	Perylene-d12	11.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	96
2	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	96
3	Tetratetracontane	619	C44H90	007098-22-8	91
4	Heneicosane	296	C21H44	000629-94-7	91
5	Octacosane	394	C28H58	000630-02-4	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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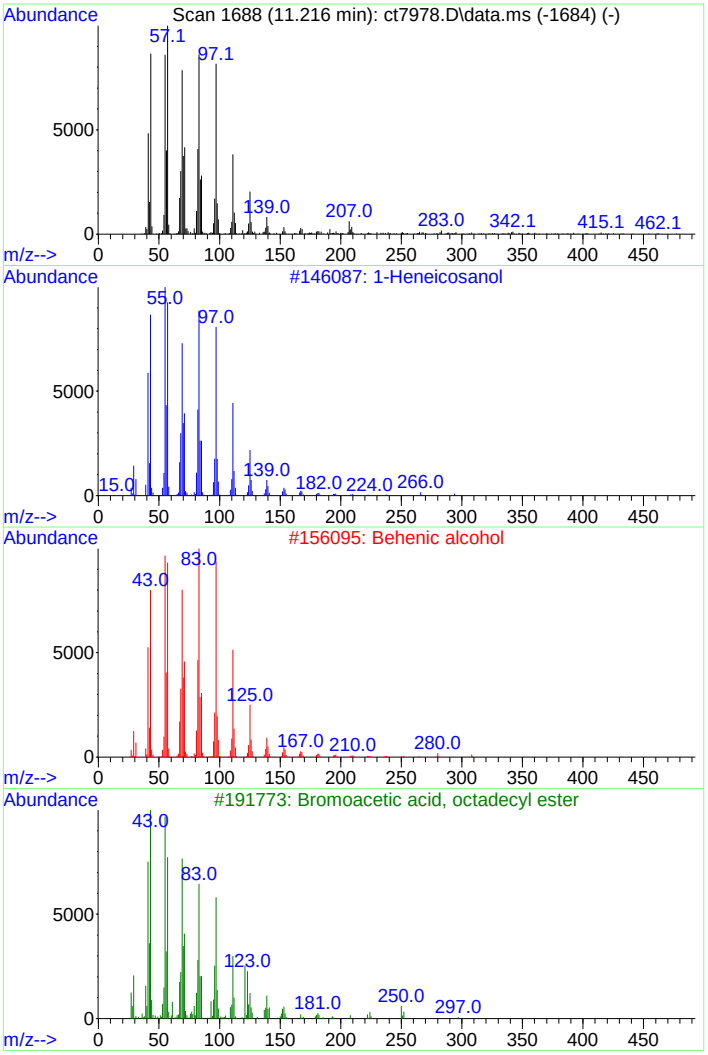
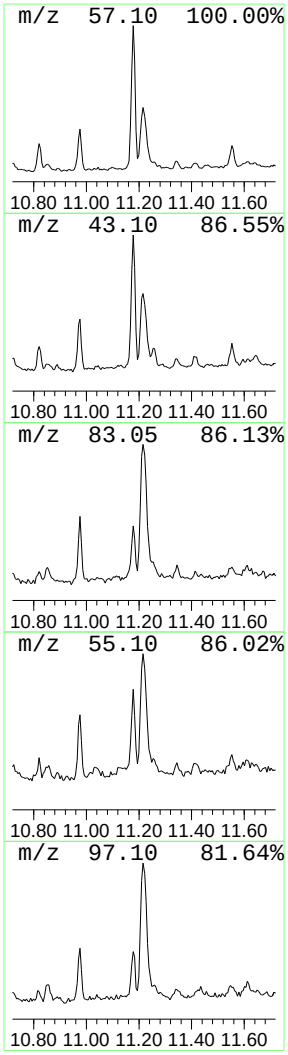
Peak Number 4 Heneicosanol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.216	6.97 ppm	510278	Perylene-d12	11.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	95
2	Behenic alcohol	326	C22H46O	000661-19-8	94
3	Bromoacetic acid, octadecyl ester	390	C20H39BrO2	018992-03-5	91
4	1-Heptacosanol	396	C27H56O	002004-39-9	91
5	n-Heptadecanol-1	256	C17H36O	001454-85-9	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

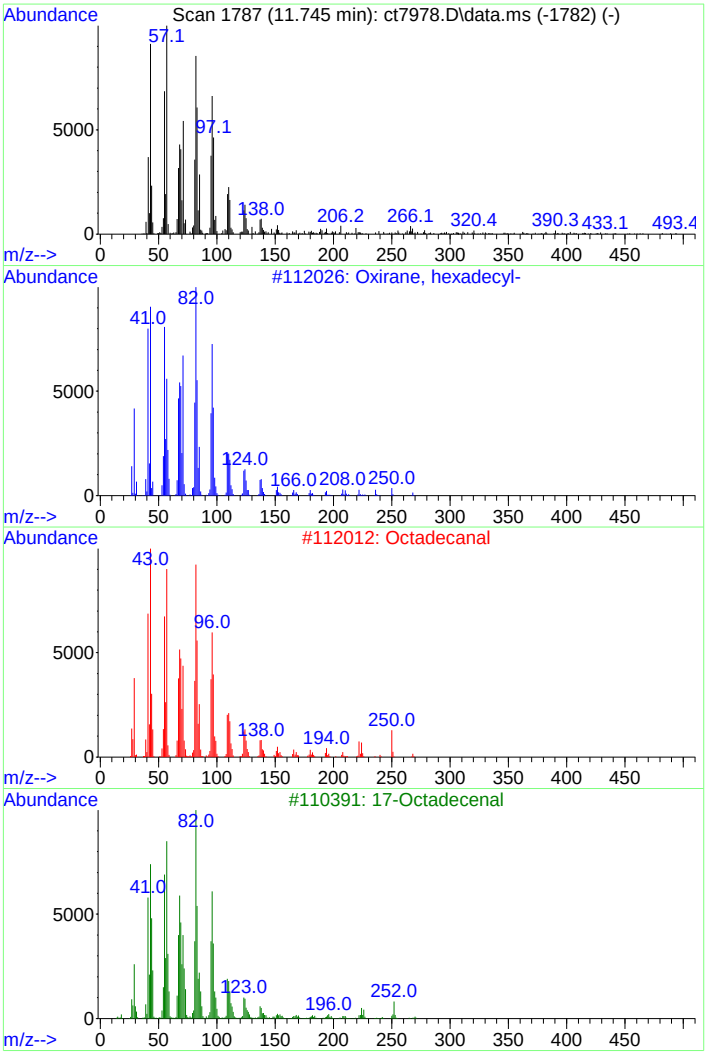
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

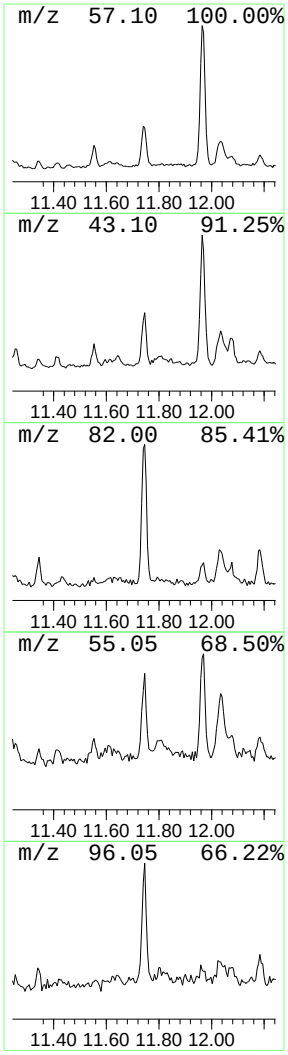
****

Peak Number 5 Oxirane, hexadecyl Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.745	4.91 ppm	359903	Perylene-d12	11.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
2	Octadecanal	268	C18H36O	000638-66-4	87
3	17-Octadecenal	266	C18H34O	056554-86-0	86
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	76
5	1,19-Eicosadiene	278	C20H38	014811-95-1	72





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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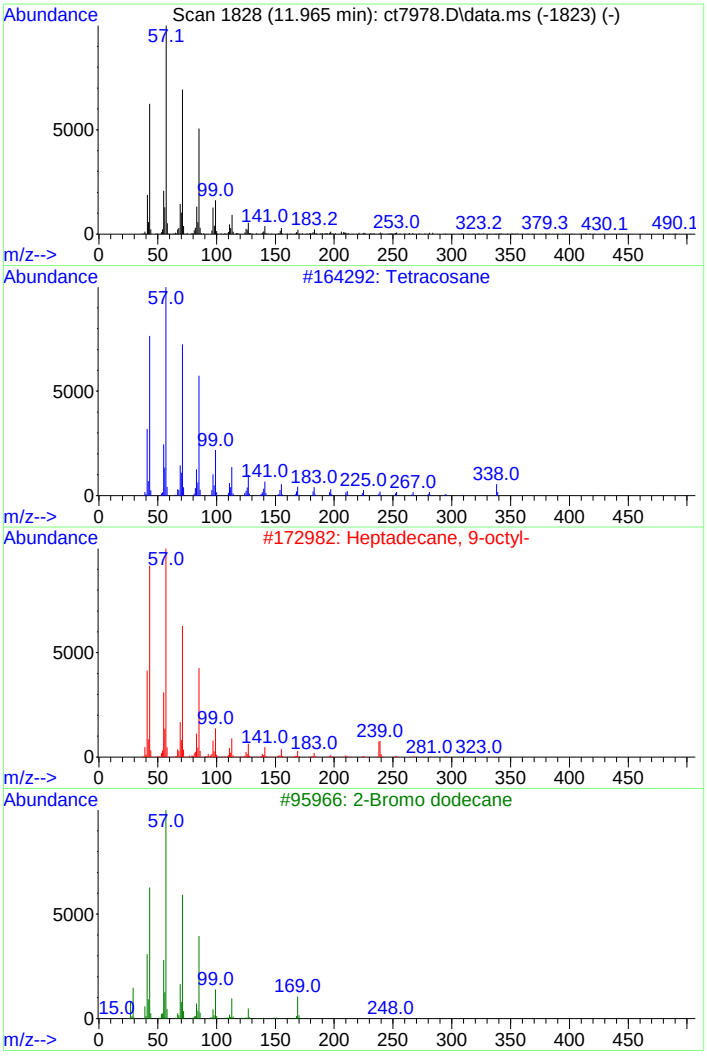
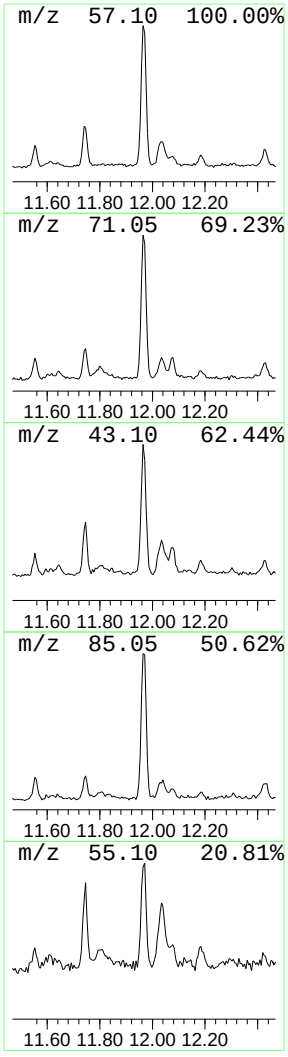
Peak Number 6 Tetracosane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.965	7.78 ppm	569643	Perylene-d12	11.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	97
2	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	94
3	2-Bromo dodecane	248	C12H25Br	013187-99-0	93
4	Heneicosane	296	C21H44	000629-94-7	91
5	Tetracosane	338	C24H50	000646-31-1	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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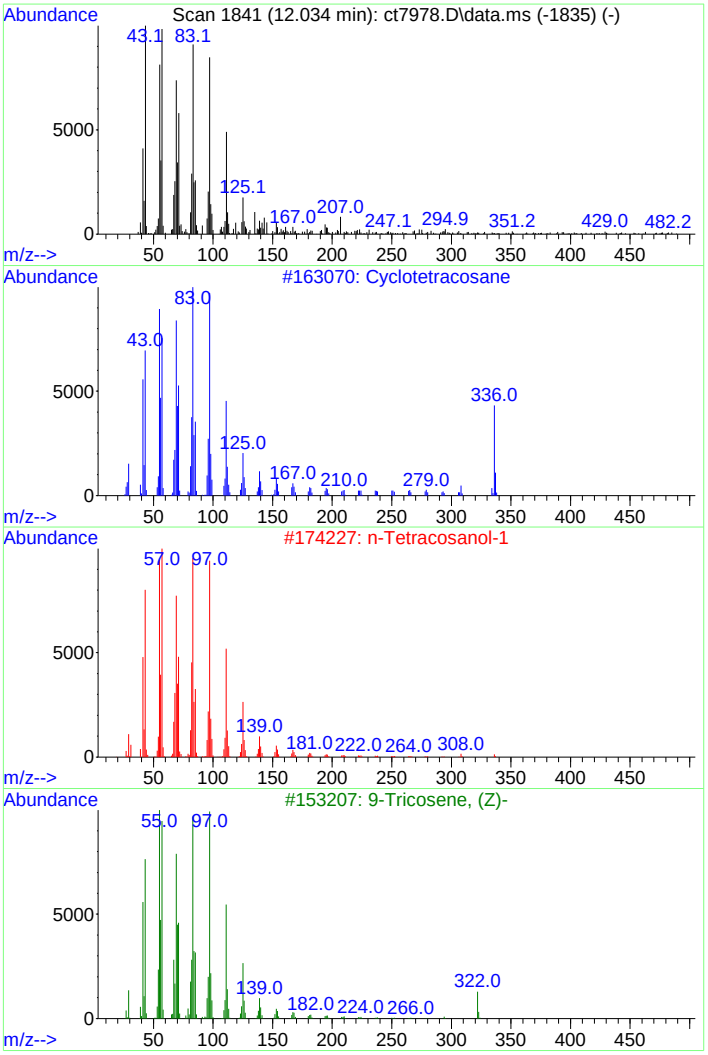
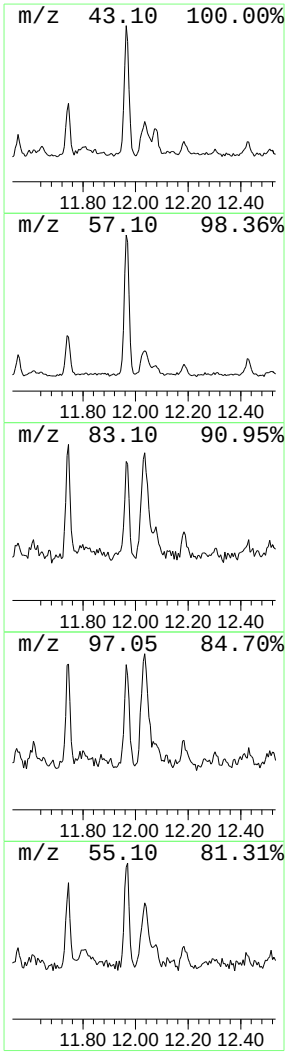
Peak Number 7 unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.034	4.70 ppm	344149	Perylene-d12	11.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetracosane	336	C24H48	000297-03-0	94
2	n-Tetracosanol-1	354	C24H50O	000506-51-4	93
3	9-Tricosene, (Z)-	322	C23H46	027519-02-4	90
4	Behenic alcohol	326	C22H46O	000661-19-8	87
5	2-Methyl-2-docosene	322	C23H46	1000131-16-9	86





Library Search Compound Report

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Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
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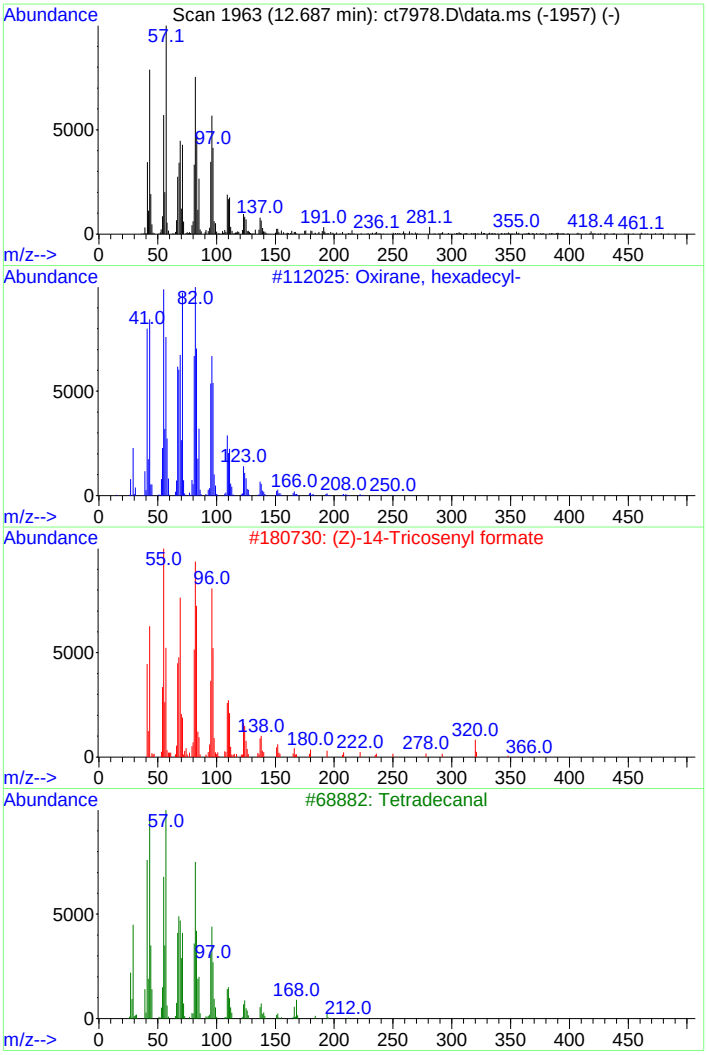
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

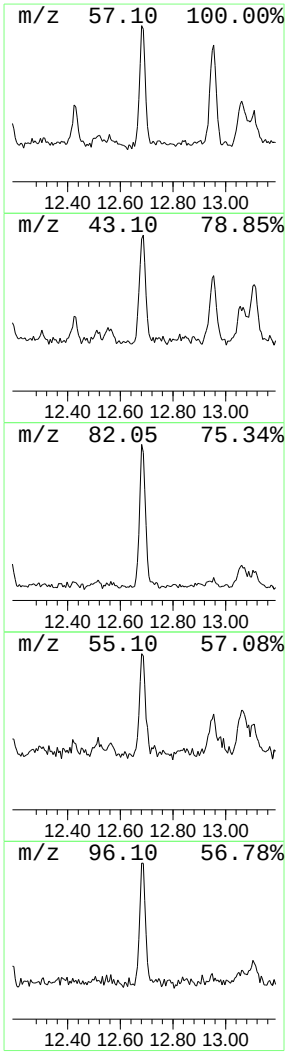
****

Peak Number 8 unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.687	7.04 ppm	515529	Perylene-d12	11.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
2	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	90
3	Tetradecanal	212	C14H28O	000124-25-4	90
4	Octadecanal	268	C18H36O	000638-66-4	90
5	Tetradecanal	212	C14H28O	000124-25-4	87





Library Search Compound Report

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Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

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TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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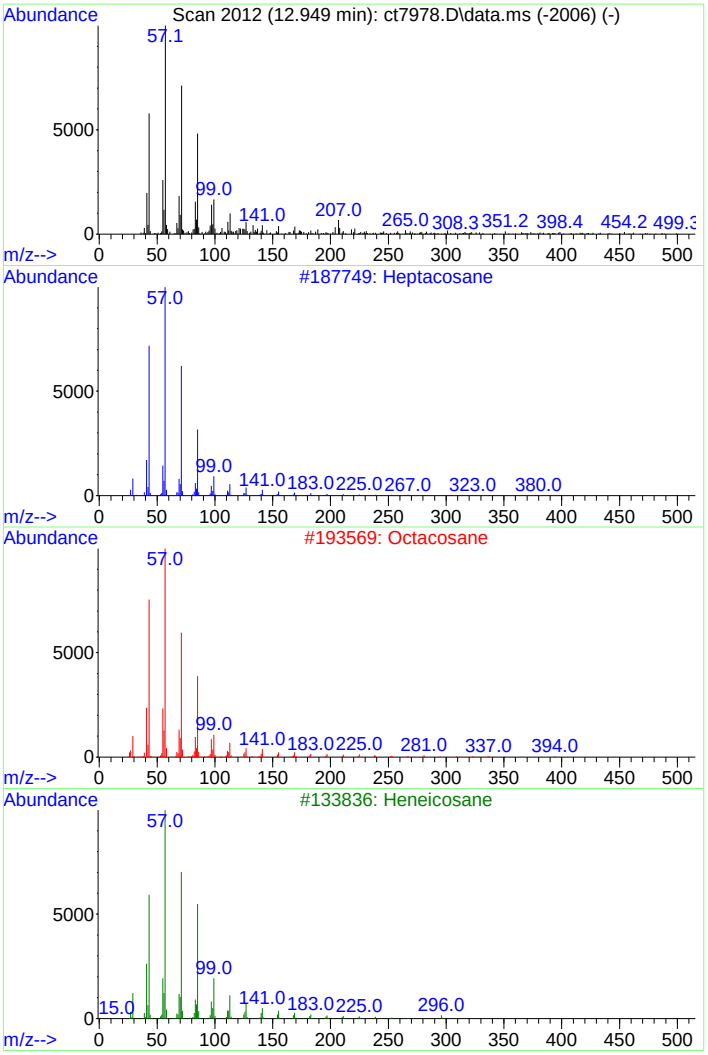
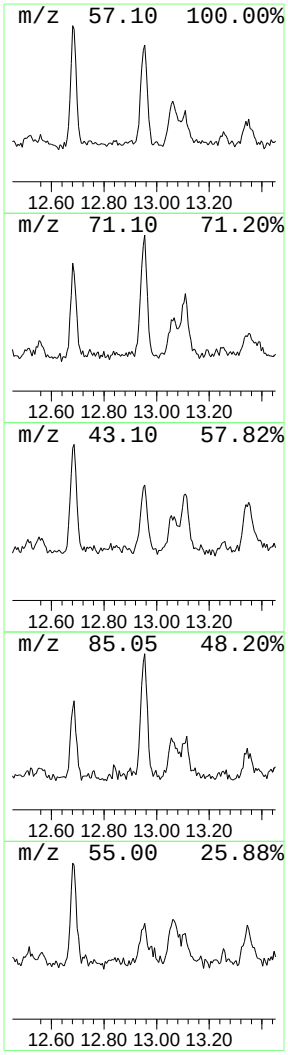
Peak Number 9 alkane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.949	5.00 ppm	366010	Perylene-d12	11.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	94
2	Octacosane	394	C28H58	000630-02-4	93
3	Heneicosane	296	C21H44	000629-94-7	93
4	Hexadecane	226	C16H34	000544-76-3	91
5	Dotriacontane	451	C32H66	000544-85-4	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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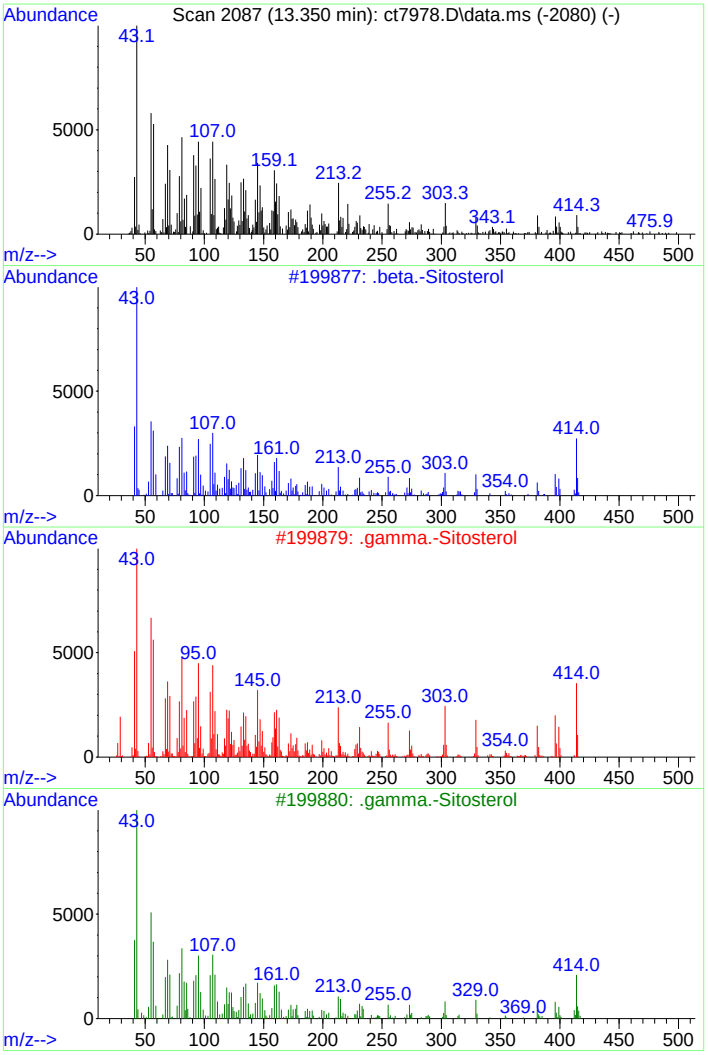
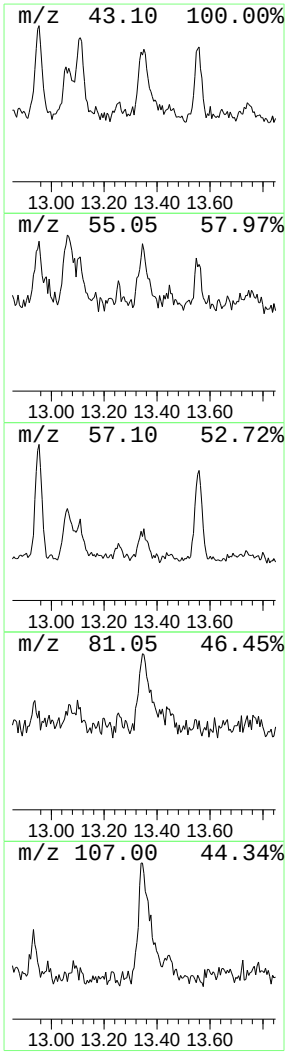
Peak Number 10 .beta.-Sitosterol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.350	7.18 ppm	525602	Perylene-d12	11.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Sitosterol	414	C29H50O	000083-46-5	93
2	.gamma.-Sitosterol	414	C29H50O	000083-47-6	91
3	.gamma.-Sitosterol	414	C29H50O	000083-47-6	76
4	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	74
5	Isocholesteryl methyl ether	400	C28H48O	029944-53-4	50





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

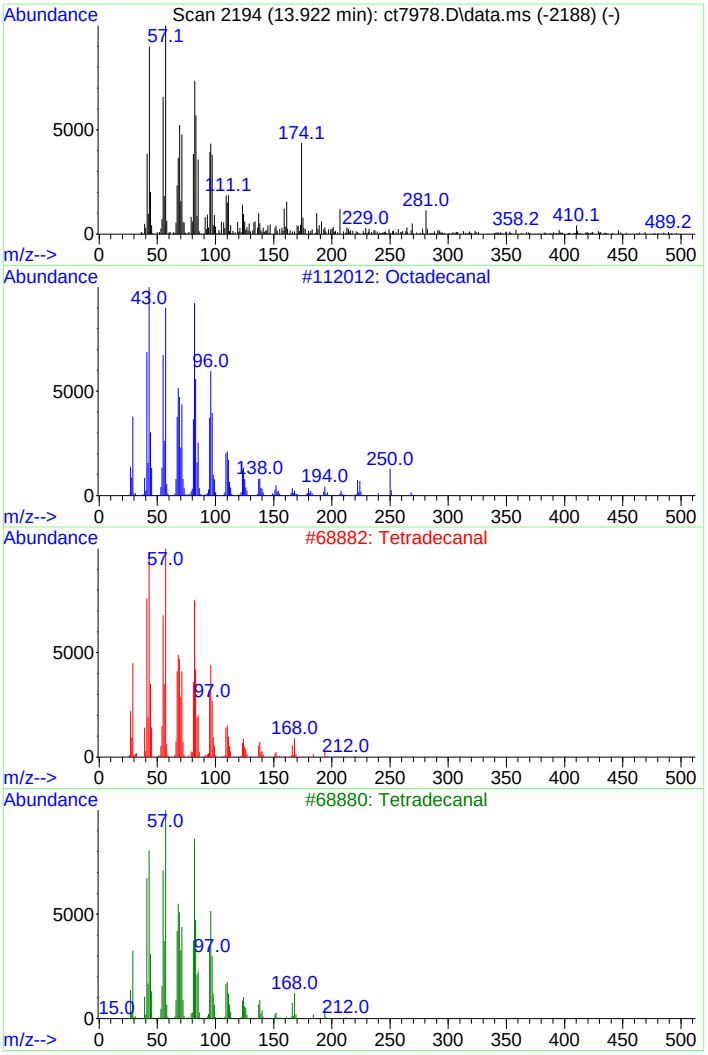
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

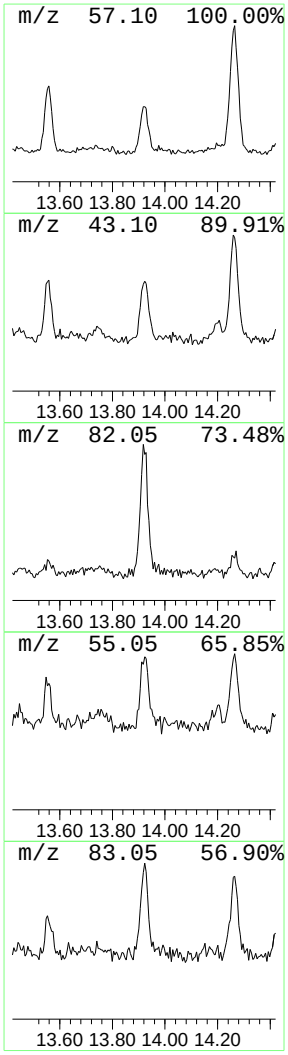
****

Peak Number 11 Tetradecanal Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.922	4.68 ppm	342717	Perylene-d12	11.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanal	268	C18H36O	000638-66-4	93
2	Tetradecanal	212	C14H28O	000124-25-4	90
3	Tetradecanal	212	C14H28O	000124-25-4	90
4	Tetradecanal	212	C14H28O	000124-25-4	64
5	18-Nonadecen-1-ol	282	C19H38O	1000142-89-2	58





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

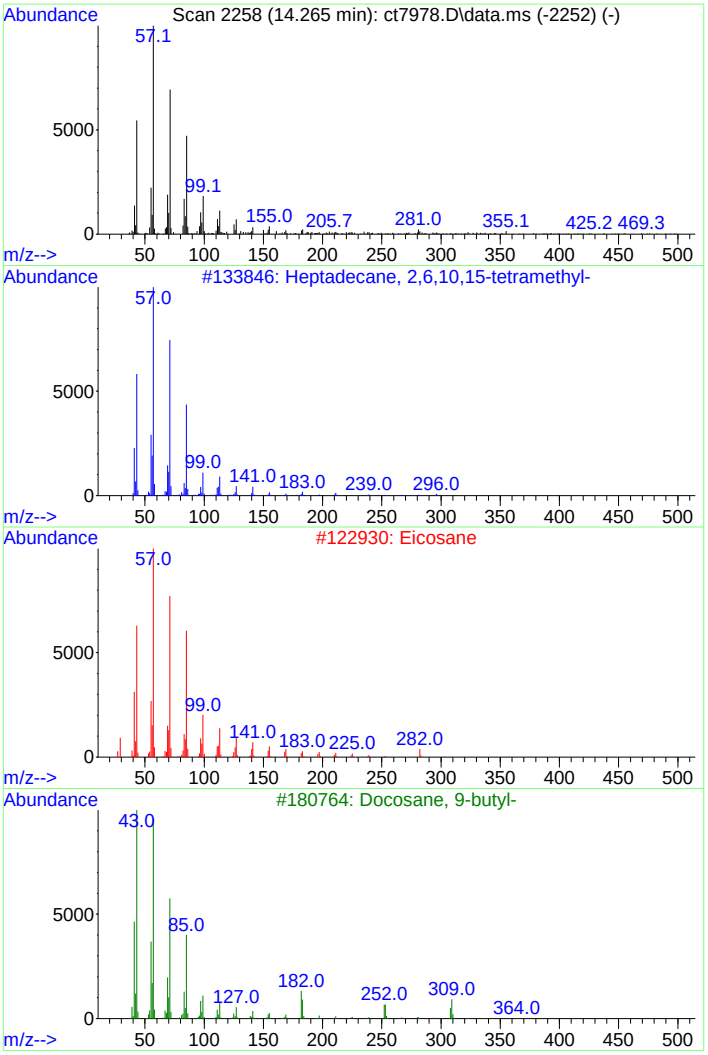
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

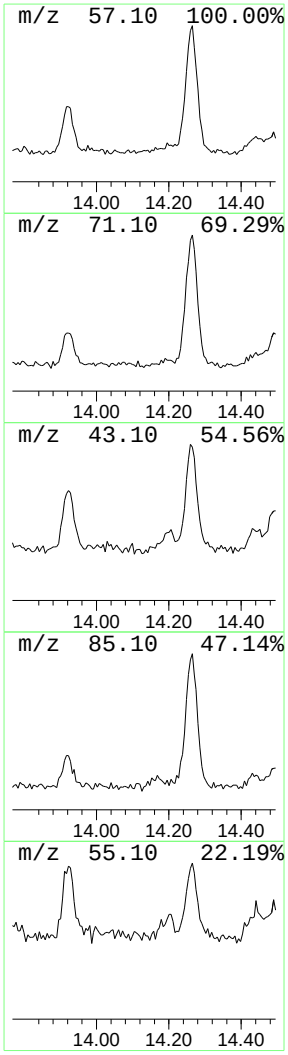
****

Peak Number 12 alkane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.265	5.40 ppm	395844	Perylene-d12	11.435

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	93
2	Eicosane	282	C20H42	000112-95-8	93
3	Docosane, 9-butyl-	366	C26H54	055282-14-9	90
4	Heneicosane	296	C21H44	000629-94-7	87
5	2-Bromo dodecane	248	C12H25Br	013187-99-0	87





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7978.D
Acq On : 03 Jul 2024 02:09 pm
Operator : karimam
Sample : jd91339-9
Misc : op55800,ect375,15.2,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown acid	9.686	5.5	ppm	405080	9	9.798	2961860	40.0
unknown alcohol	10.472	8.7	ppm	646363	10	9.798	2961860	40.0
alkane	11.178	5.8	ppm	428450	11	11.435	2929920	40.0
Heneicosanol	11.216	7.0	ppm	510278	11	11.435	2929920	40.0
Oxirane, hexadecyl	11.745	4.9	ppm	359903	11	11.435	2929920	40.0
Tetracosane	11.965	7.8	ppm	569643	11	11.435	2929920	40.0
unknown	12.034	4.7	ppm	344149	11	11.435	2929920	40.0
unknown	12.687	7.0	ppm	515529	11	11.435	2929920	40.0
alkane	12.949	5.0	ppm	366010	11	11.435	2929920	40.0
.beta.-Sitosterol	13.350	7.2	ppm	525602	11	11.435	2929920	40.0
Tetradecanal	13.922	4.7	ppm	342717	11	11.435	2929920	40.0
alkane	14.265	5.4	ppm	395844	11	11.435	2929920	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10 Inst : GCMS_CT
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 03 20:19:38 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

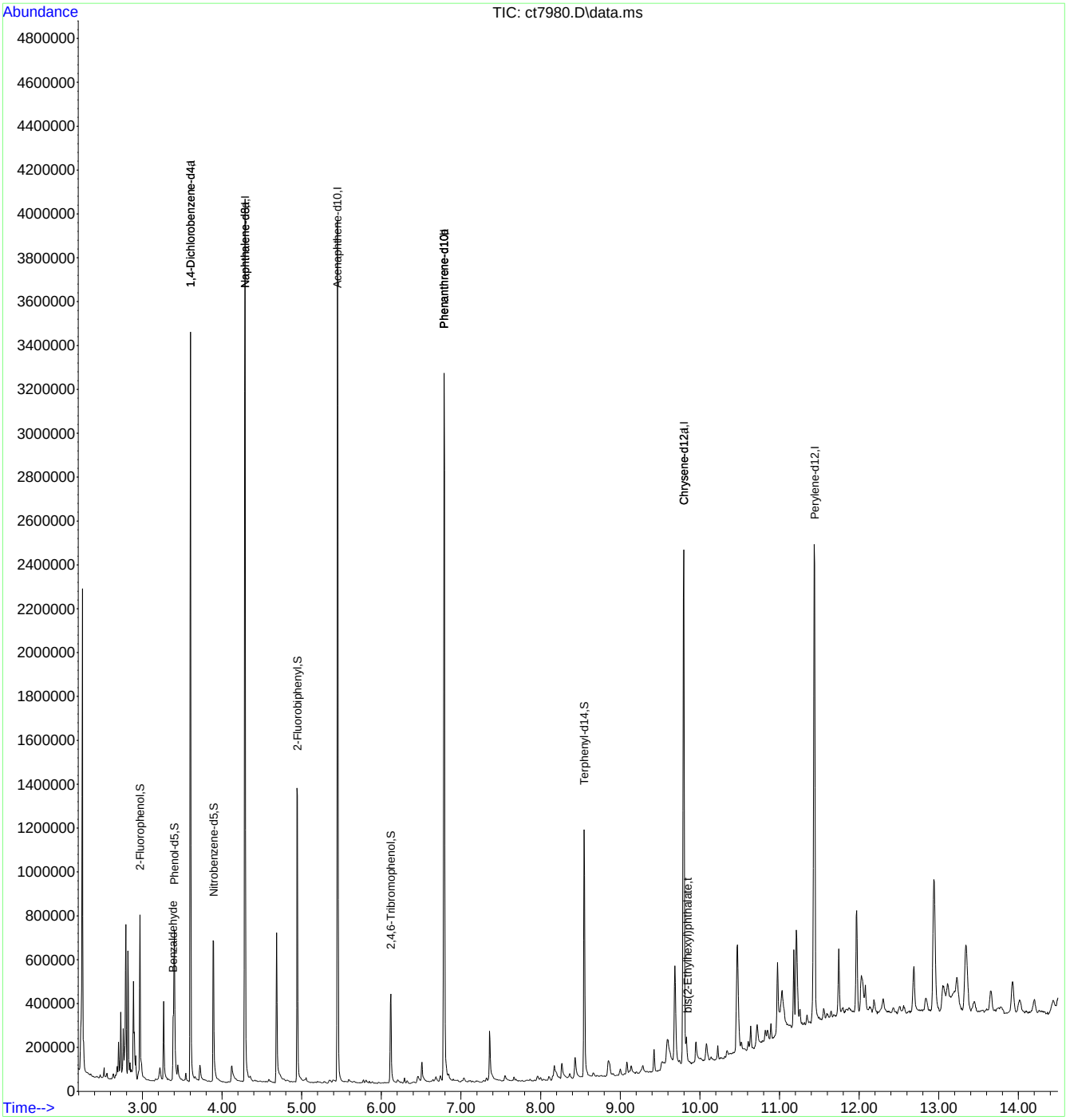
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.605	152	367957	40.00	ppm	0.00
24) Naphthalene-d8	4.289	136	1426814	40.00	ppm	0.00
46) Acenaphthene-d10	5.450	164	744753	40.00	ppm	0.00
69) Phenanthrene-d10	6.787	188	1231704	40.00	ppm	0.00
84) Chrysene-d12	9.798	240	851103	40.00	ppm	0.00
93) Perylene-d12	11.440	264	917748	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	3.605	152	367957	40.00	ppm	0.00
105) Phenanthrene-d10a	6.787	188	1231704	40.00	ppm	0.00
107) Naphthalene-d8a	4.289	136	1426814	40.00	ppm	0.00
109) Phenanthrene-d10b	6.787	188	1231704	40.00	ppm	0.00
112) Chrysene-d12a	9.798	240	851103	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.968	112	165163	13.92	ppm	0.00
Spiked Amount 50.000			Recovery = 27.84%			
8) Phenol-d5	3.401	99	212522	14.30	ppm	0.00
Spiked Amount 50.000			Recovery = 28.60%			
25) Nitrobenzene-d5	3.893	82	218748	14.91	ppm	0.00
Spiked Amount 50.000			Recovery = 29.82%			
51) 2-Fluorobiphenyl	4.947	172	381101	16.40	ppm	0.00
Spiked Amount 50.000			Recovery = 32.80%			
74) 2,4,6-Tribromophenol	6.119	330	41457	17.71	ppm	0.00
Spiked Amount 50.000			Recovery = 35.42%			
87) Terphenyl-d14	8.547	244	353228	16.74	ppm	0.00
Spiked Amount 50.000			Recovery = 33.48%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
92) bis(2-Ethylhexyl)phtha...	9.847	149	1606	1.6040	ppm	62
104) Benzaldehyde	3.385	105	53431	4.7611	ppm	92

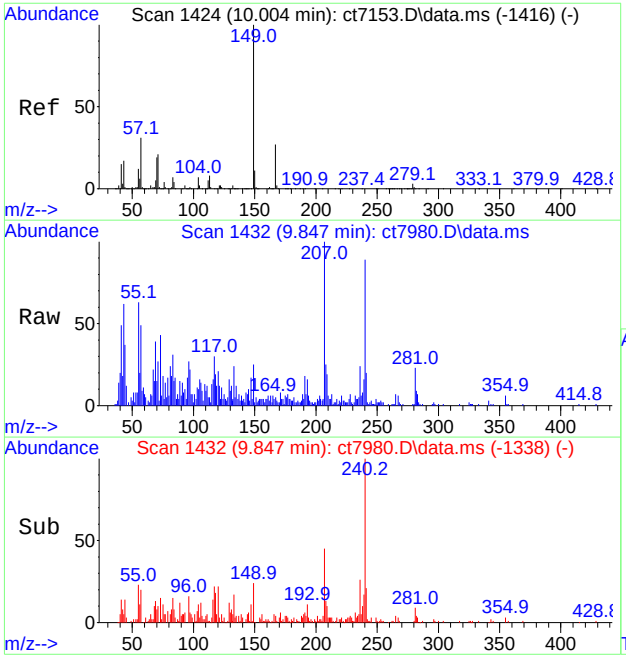
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10 Inst : GCMS_CT
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 03 20:19:38 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

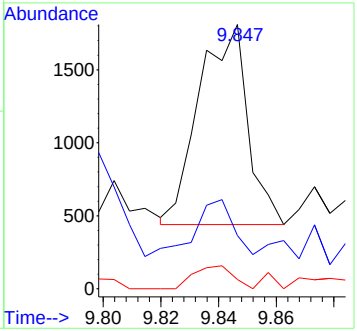


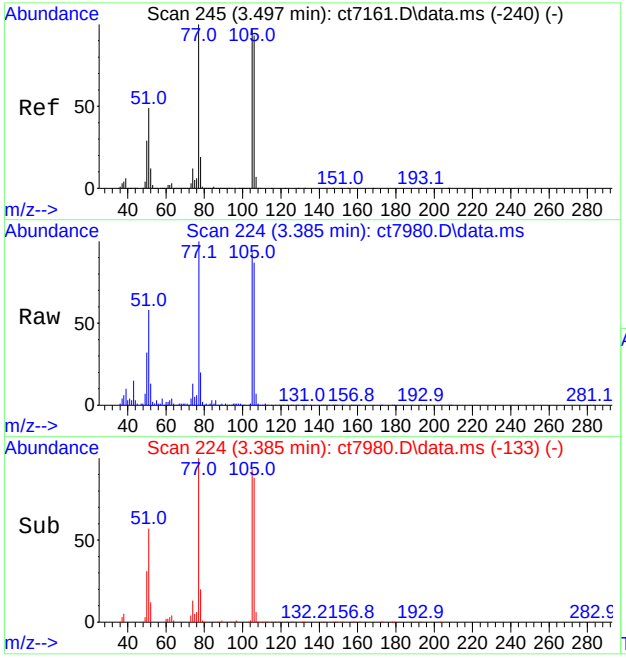


#92
bis(2-Ethylhexyl)phthalate
Concen: 1.6040 ppm
RT: 9.847 min Scan# 1432
Delta R.T. 0.005 min
Lab File: ct7980.D
Acq: 03 Jul 2024 02:47 pm

Tgt Ion:149 Resp: 1606

Ion	Ratio	Lower	Upper
149	100		
167	4.6	0.0	56.3
279	4.8	0.0	33.6

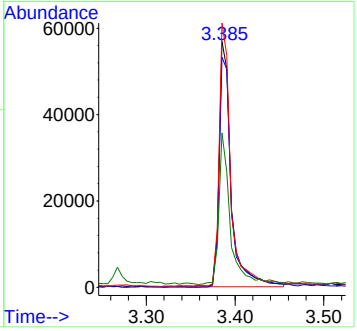




#104
Benzaldehyde
Concen: 4.7611 ppm
RT: 3.385 min Scan# 224
Delta R.T. -0.016 min
Lab File: ct7980.D
Acq: 03 Jul 2024 02:47 pm

Tgt Ion:105 Resp: 53431

Ion	Ratio	Lower	Upper
105	100		
106	93.6	66.8	126.8
77	107.2	70.7	130.7
51	61.3	15.5	75.5



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: ct7980.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.123	358	362	383	rVV	75797	167813	5.15%	0.549%
2	4.289	387	393	402	rVV	4024617	3004915	92.13%	9.825%
3	4.353	403	405	413	rVV2	24177	32572	1.00%	0.106%
4	4.482	425	429	434	rVB6	4257	5436	0.17%	0.018%
5	4.589	445	449	459	rVB4	15781	29265	0.90%	0.096%
6	4.685	463	467	483	rBV	685202	664556	20.38%	2.173%
7	4.819	489	492	500	rVB9	8509	15450	0.47%	0.051%
8	4.942	511	515	529	rVV	1339760	1176177	36.06%	3.846%
9	5.054	529	536	546	rVB7	22954	48923	1.50%	0.160%
10	5.199	561	563	568	rBV6	6195	8011	0.25%	0.026%
11	5.279	573	578	586	rVB6	8173	15130	0.46%	0.049%
12	5.354	586	592	596	rBV2	14757	27248	0.84%	0.089%
13	5.402	596	601	606	rBV6	9695	21795	0.67%	0.071%
14	5.450	606	610	626	rVB	3924763	3261546	100.00%	10.664%
15	5.541	626	627	634	rVB7	4054	5550	0.17%	0.018%
16	5.589	634	636	645	rVB8	13829	20234	0.62%	0.066%
17	5.653	645	648	658	rVB8	6503	13066	0.40%	0.043%
18	5.776	663	671	673	rBV3	14524	16383	0.50%	0.054%
19	5.808	673	677	683	rVB2	12857	16126	0.49%	0.053%
20	5.851	683	685	687	rVB3	9389	5626	0.17%	0.018%
21	5.889	687	692	696	rVB8	8670	11229	0.34%	0.037%
22	5.963	703	706	711	rBV7	6086	8970	0.28%	0.029%
23	6.119	730	735	747	rBV	406062	444640	13.63%	1.454%
24	6.204	747	751	758	rVB7	13330	20340	0.62%	0.067%
25	6.247	758	759	763	rVB4	6611	5681	0.17%	0.019%
26	6.290	763	767	771	rBV4	25246	24792	0.76%	0.081%
27	6.322	771	773	780	rVB6	13405	15458	0.47%	0.051%
28	6.413	780	790	794	rBV6	8552	22142	0.68%	0.072%
29	6.461	794	799	804	rBV7	29797	57224	1.75%	0.187%
30	6.509	804	808	826	rVB	89510	119954	3.68%	0.392%
31	6.648	826	834	836	rBV7	10438	13164	0.40%	0.043%
32	6.685	836	841	848	rVB6	21684	32229	0.99%	0.105%
33	6.744	848	852	855	rBV5	25666	34461	1.06%	0.113%
34	6.787	855	860	869	rBV	3223668	3181578	97.55%	10.403%
35	7.038	898	907	916	rBV10	19617	37906	1.16%	0.124%
36	7.119	916	922	925	rVB7	7900	12269	0.38%	0.040%
37	7.145	925	927	931	rVB5	5815	5578	0.17%	0.018%
38	7.194	931	936	938	rBV6	7192	8080	0.25%	0.026%
39	7.285	948	953	957	rBV7	9202	12796	0.39%	0.042%
40	7.322	957	960	962	rVV3	17191	16837	0.52%	0.055%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	7.359	962	967	988	rVV	227589	310056	9.51%	1.014%
42	7.552	996	1003	1018	rBV3	25668	54273	1.66%	0.177%
43	7.664	1018	1024	1027	rBV7	17150	18521	0.57%	0.061%
44	7.691	1027	1029	1034	rVB5	10214	12052	0.37%	0.039%
45	7.819	1047	1053	1055	rBV7	5123	7321	0.22%	0.024%
46	7.868	1059	1062	1066	rVB6	8284	8749	0.27%	0.029%
47	7.926	1069	1073	1075	rBV5	4629	5557	0.17%	0.018%
48	7.964	1075	1080	1084	rBV5	21898	33892	1.04%	0.111%
49	8.001	1084	1087	1090	rVB4	12688	13303	0.41%	0.043%
50	8.033	1090	1093	1098	rVB7	6467	8692	0.27%	0.028%
51	8.103	1102	1106	1111	rBV	18265	23670	0.73%	0.077%
52	8.172	1111	1119	1133	rBV3	67363	183579	5.63%	0.600%
53	8.269	1133	1137	1150	rBV	70615	123285	3.78%	0.403%
54	8.365	1150	1155	1162	rVB2	21616	32216	0.99%	0.105%
55	8.434	1162	1168	1180	rBV2	95936	172579	5.29%	0.564%
56	8.547	1184	1189	1204	rVV	1127600	1143779	35.07%	3.740%
57	8.664	1207	1211	1217	rVV7	17312	26599	0.82%	0.087%
58	8.707	1217	1219	1224	rVV6	5134	7207	0.22%	0.024%
59	8.852	1240	1246	1262	rBV5	70897	165663	5.08%	0.542%
60	9.001	1269	1274	1280	rBV6	30372	41286	1.27%	0.135%
61	9.055	1281	1284	1285	rVV3	6110	5103	0.16%	0.017%
62	9.082	1285	1289	1293	rVV	57899	63848	1.96%	0.209%
63	9.135	1294	1299	1309	rVB8	37791	71784	2.20%	0.235%
64	9.205	1309	1312	1315	rBV4	9343	10946	0.34%	0.036%
65	9.285	1318	1327	1334	rBV9	35344	80411	2.47%	0.263%
66	9.424	1348	1353	1358	rBV2	103441	102052	3.13%	0.334%
67	9.526	1367	1372	1379	rBV5	40086	121065	3.71%	0.396%
68	9.590	1379	1384	1397	rVV2	125512	393500	12.06%	1.287%
69	9.686	1397	1402	1411	rVB	440113	605843	18.58%	1.981%
70	9.798	1416	1423	1439	rVV	2344924	2760572	84.64%	9.026%
71	9.954	1448	1452	1459	rBV3	91677	140254	4.30%	0.459%
72	10.082	1471	1476	1483	rBV2	76209	113102	3.47%	0.370%
73	10.226	1499	1503	1508	rBV2	61463	57704	1.77%	0.189%
74	10.344	1521	1525	1528	rBV4	31882	46042	1.41%	0.151%
75	10.472	1542	1549	1556	rBV2	489237	830204	25.45%	2.714%
76	10.606	1571	1574	1576	rBV3	40186	37694	1.16%	0.123%
77	10.638	1577	1580	1588	rVB	105146	100586	3.08%	0.329%
78	10.718	1590	1595	1604	rBV5	101170	193584	5.94%	0.633%
79	10.820	1611	1614	1617	rBV	50797	60719	1.86%	0.199%
80	10.852	1617	1620	1624	rVV5	44779	59321	1.82%	0.194%
81	10.895	1625	1628	1633	rVV	71043	76266	2.34%	0.249%
82	10.975	1638	1643	1647	rBV	328612	416080	12.76%	1.360%
83	11.034	1649	1654	1669	rVB2	168102	474769	14.56%	1.552%
84	11.178	1676	1681	1684	rBV	356137	369100	11.32%	1.207%
85	11.210	1684	1687	1693	rVB	404200	552707	16.95%	1.807%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	11.344	1709	1712	1717	rBV4	44857	59679	1.83%	0.195%
87	11.435	1722	1729	1745	rVV	2178898	2791578	85.59%	9.127%
88	11.553	1748	1751	1756	rVV2	48015	59601	1.83%	0.195%
89	11.745	1782	1787	1792	rBV	299404	352643	10.81%	1.153%
90	11.970	1823	1829	1834	rBV	463595	613673	18.82%	2.006%
91	12.029	1835	1840	1846	rBV6	160708	361843	11.09%	1.183%
92	12.184	1867	1869	1877	rVB5	65745	100398	3.08%	0.328%
93	12.687	1957	1963	1974	rBV2	207048	357721	10.97%	1.170%
94	12.836	1988	1991	1998	rVB7	55662	99443	3.05%	0.325%
95	12.938	2004	2010	2023	rVB3	600947	1199628	36.78%	3.922%
96	13.050	2026	2031	2038	rBV3	108086	280390	8.60%	0.917%
97	13.227	2061	2064	2077	rVB8	150593	316775	9.71%	1.036%
98	13.339	2078	2085	2097	rVB3	301234	736385	22.58%	2.408%
99	13.655	2139	2144	2152	rVB9	91159	181075	5.55%	0.592%
100	13.928	2189	2195	2203	rVB4	139024	296800	9.10%	0.970%

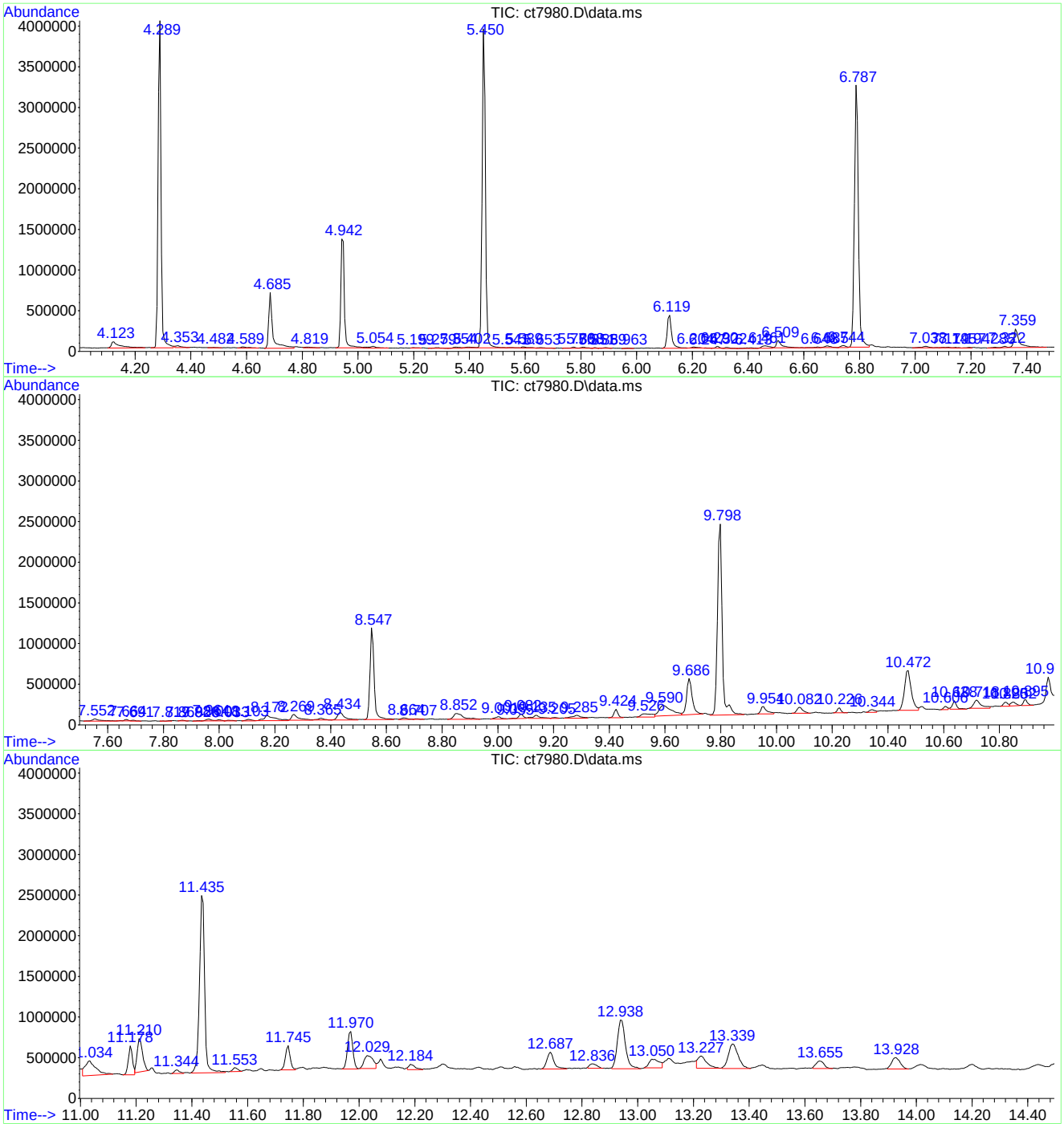
Sum of corrected areas: 30584317

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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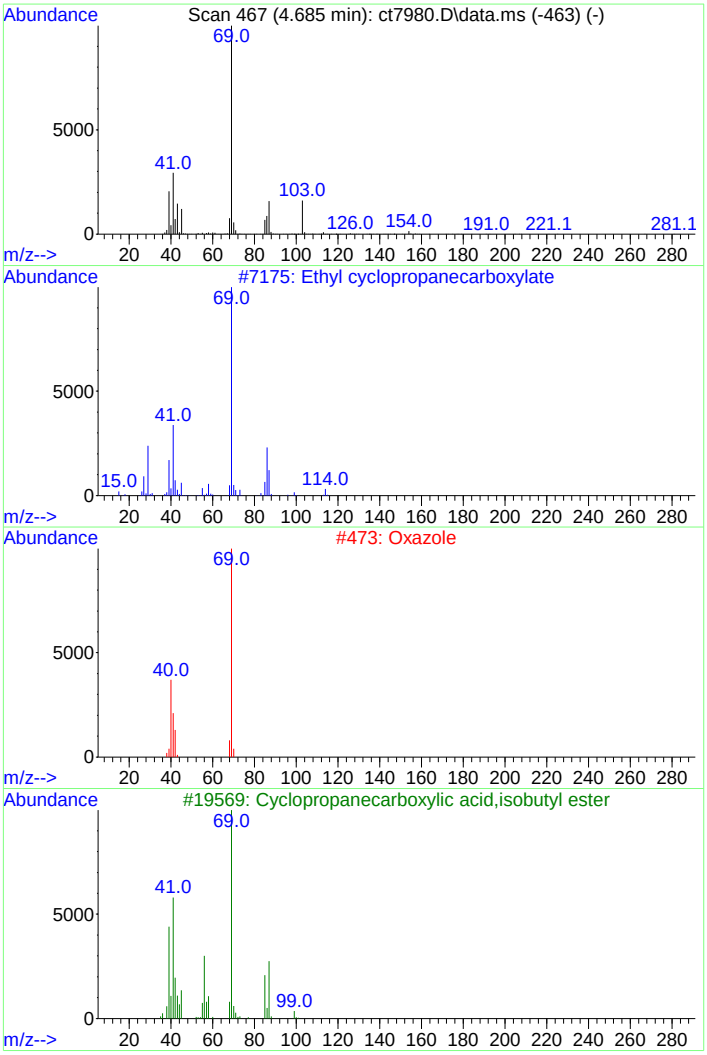
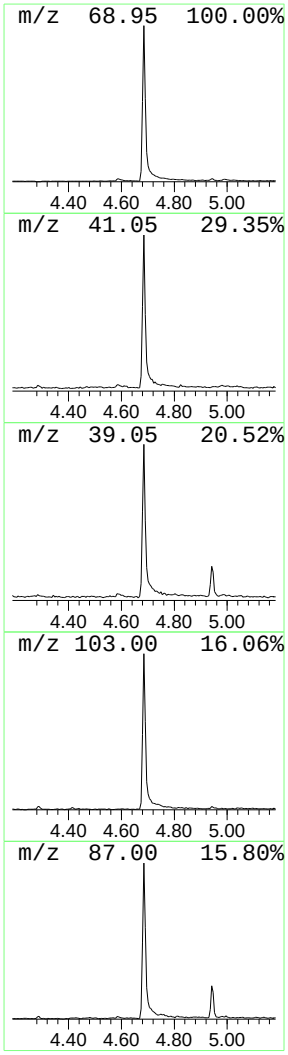
Peak Number 1 unknown Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.685	8.85 ppm	664556	Naphthalene-d8a	4.289

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethyl cyclopropanecarboxylate	114	C6H10O2	004606-07-9	40
2	Oxazole	69	C3H3NO	000288-42-6	9
3	Cyclopropanecarboxylic acid,isob...	142	C8H14O2	064969-79-5	9
4	Ethyl cyclopropanecarboxylate	114	C6H10O2	004606-07-9	9
5	4-Heptanol, 2,6-dimethyl-	144	C9H20O	000108-82-7	9





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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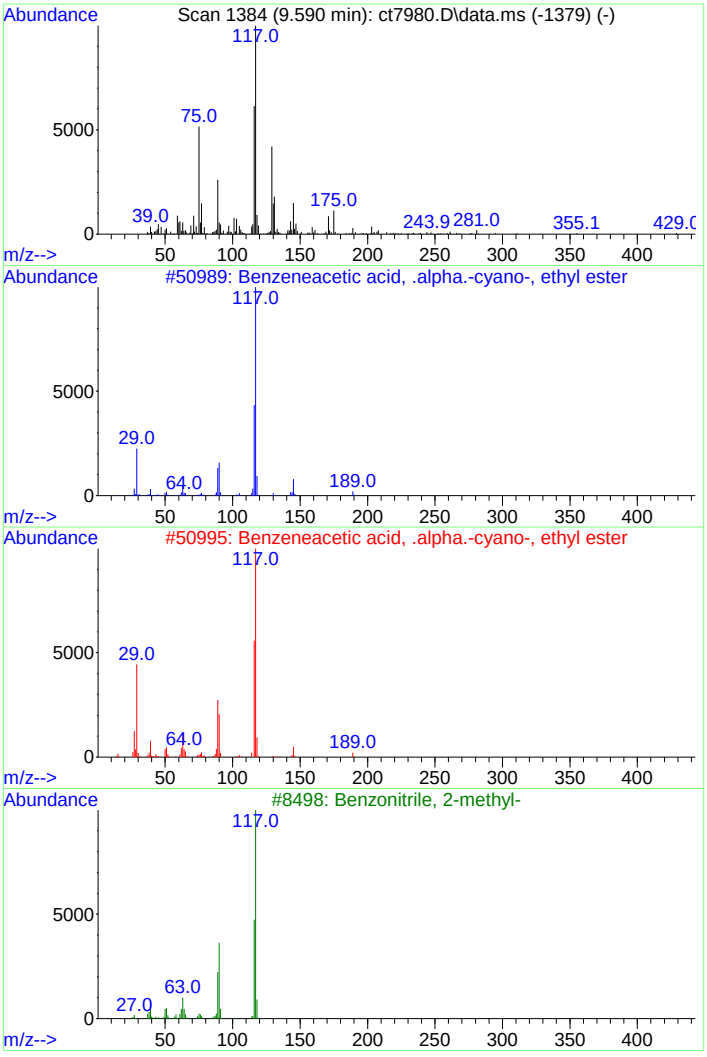
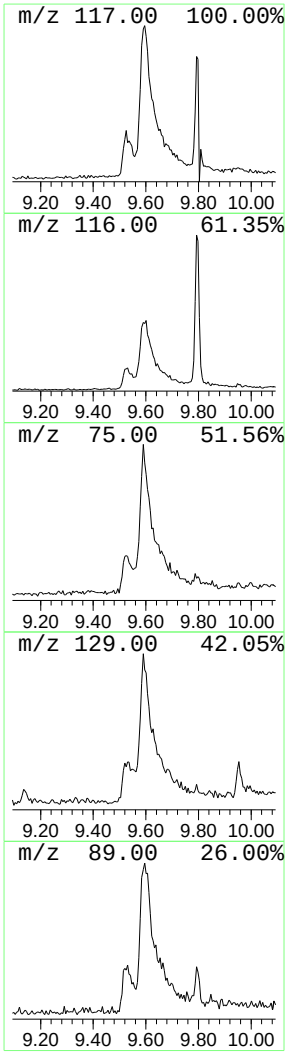
Peak Number 2 unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.590	5.70 ppm	393500	Chrysene-d12	9.798

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzeneacetic acid, .alpha.-cyan...	189	C11H11NO2	004553-07-5	55
2	Benzeneacetic acid, .alpha.-cyan...	189	C11H11NO2	004553-07-5	46
3	Benzonitrile, 2-methyl-	117	C8H7N	000529-19-1	46
4	Benzonitrile, 3-methyl-	117	C8H7N	000620-22-4	46
5	Benzonitrile, 2-methyl-	117	C8H7N	000529-19-1	46





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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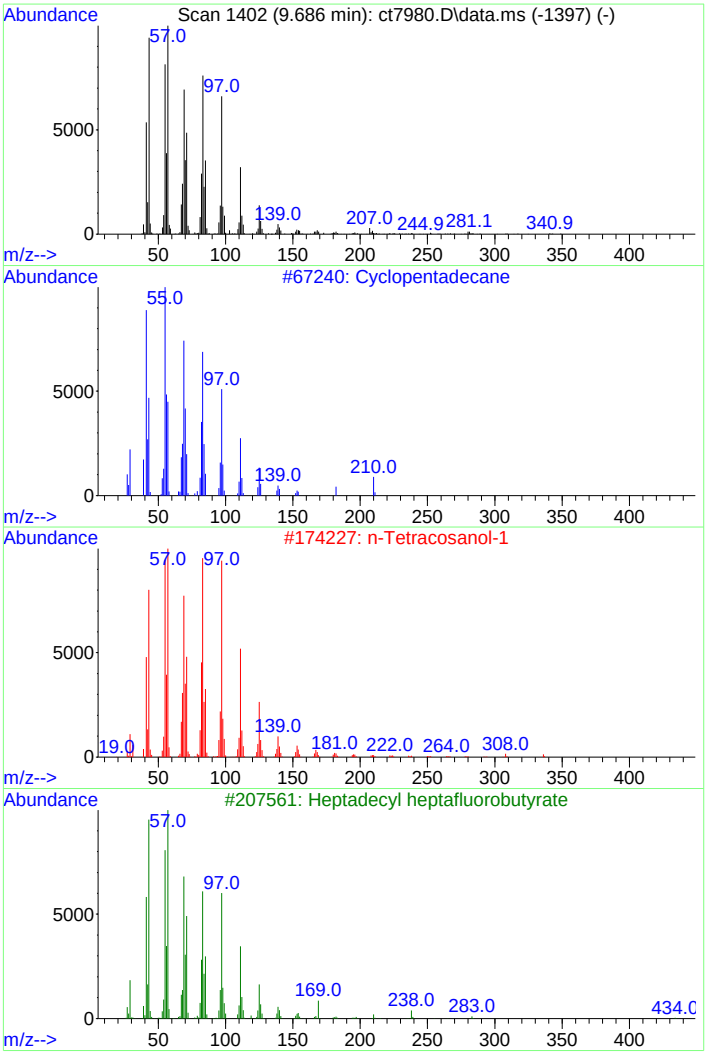
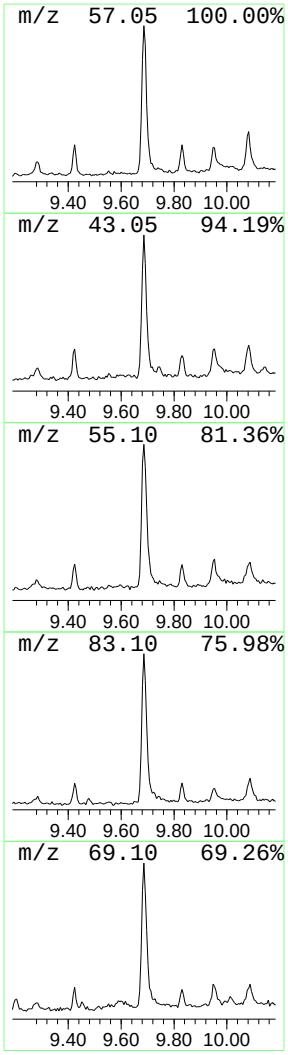
Peak Number 3 Cyclopentadecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.686	8.78 ppm	605843	Chrysene-d12	9.798

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentadecane	210	C15H30	000295-48-7	96
2	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
3	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	1000351-82-9	94
4	1-Octacosanol	410	C28H58O	1000351-79-2	91
5	Heptadecyl trifluoroacetate	352	C19H35F3O2	1000351-87-0	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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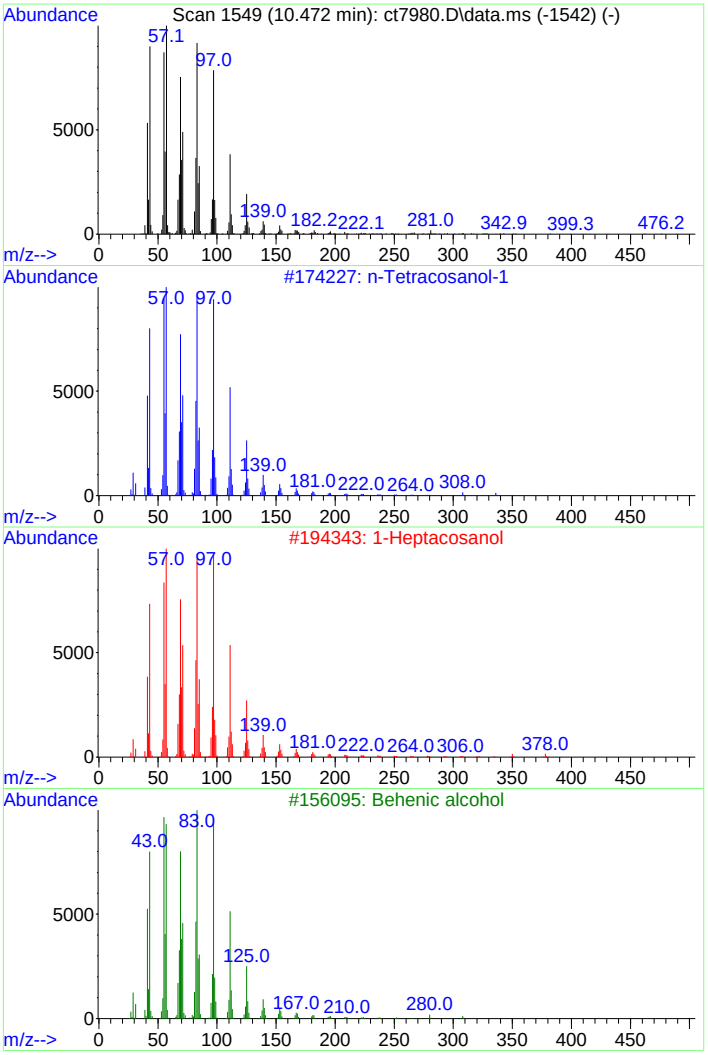
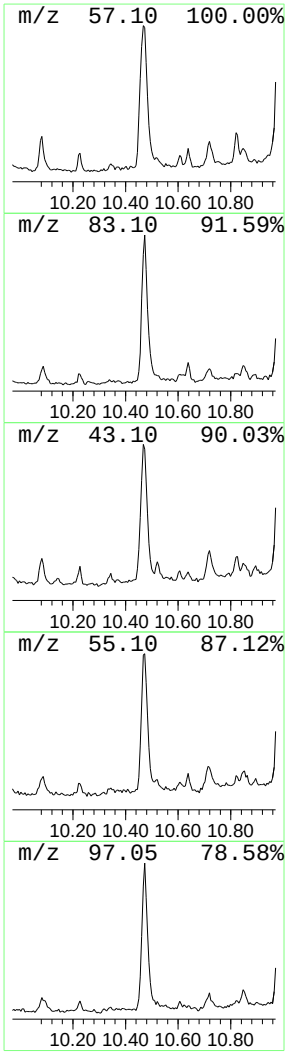
Peak Number 4 n-Tetracosanol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.472	12.03 ppm	830204	Chrysene-d12a	9.798

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
2	1-Heptacosanol	396	C27H56O	002004-39-9	94
3	Behenic alcohol	326	C22H46O	000661-19-8	94
4	1-Heneicosanol	312	C21H44O	015594-90-8	94
5	1-Heneicosyl formate	340	C22H44O2	077899-03-7	93





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

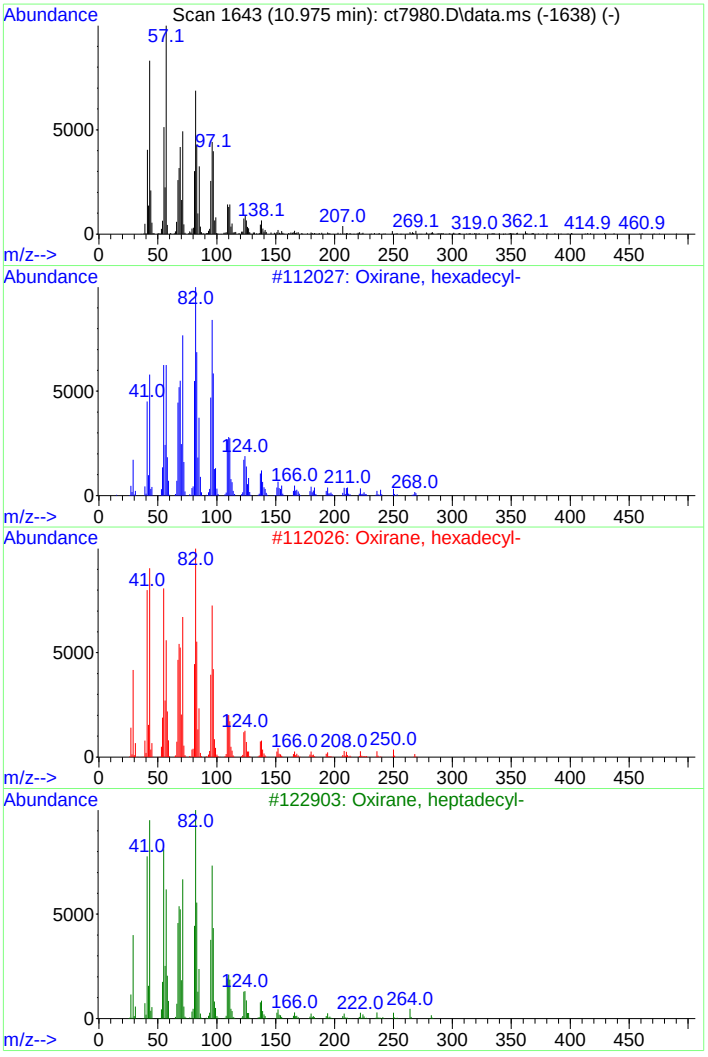
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

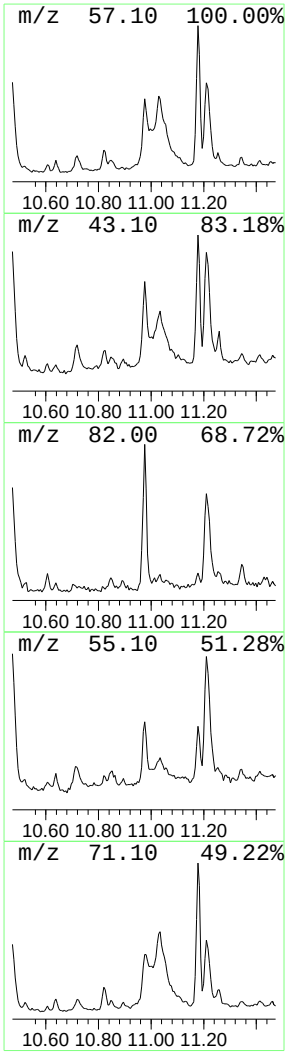
****

Peak Number 5 Oxirane, hexadecyl Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.975	5.96 ppm	416080	Perylene-d12	11.441

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	87
3	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	87
4	Octadecanal	268	C18H36O	000638-66-4	74
5	Octadecanal	268	C18H36O	000638-66-4	74





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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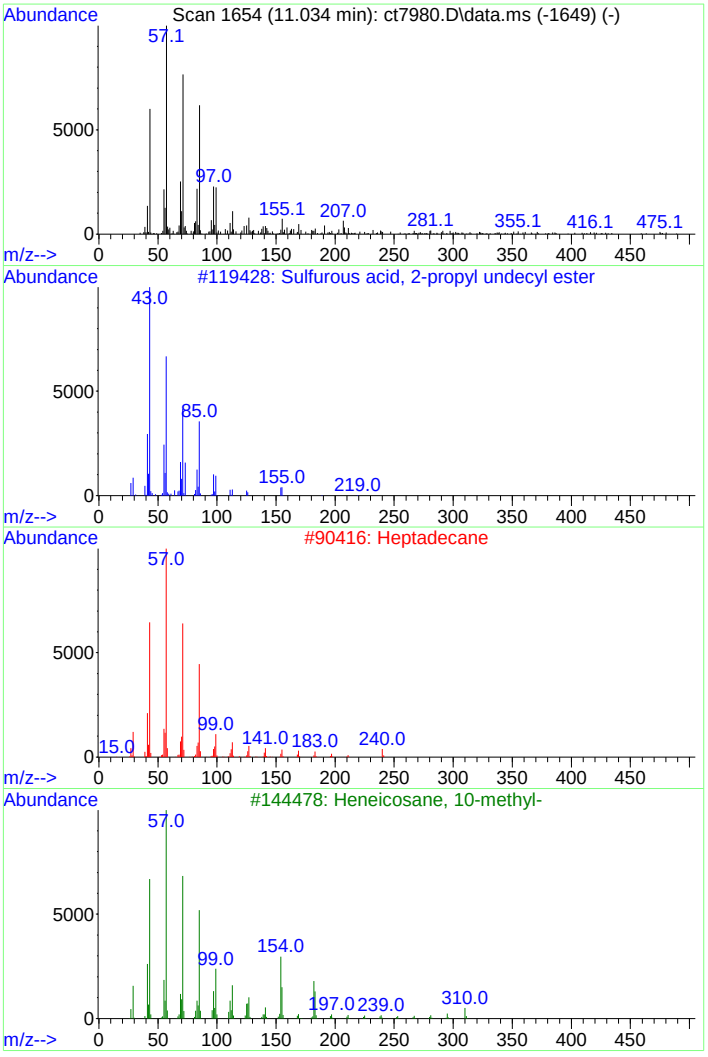
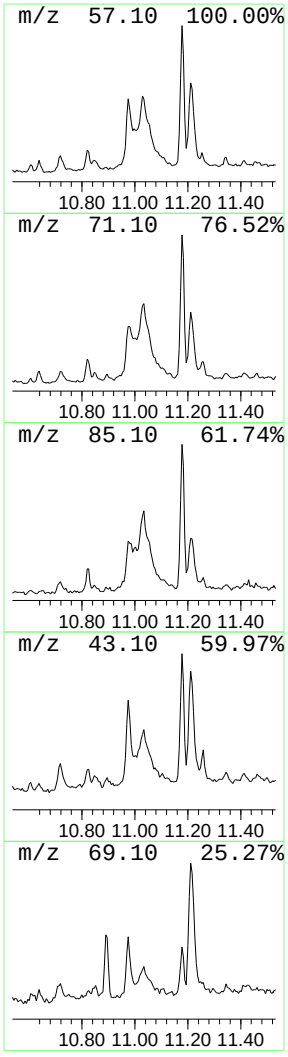
Peak Number 6 alkane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.034	6.80 ppm	474769	Perylene-d12	11.441

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfurous acid, 2-propyl undecyl...	278	C14H30O3S	1000309-12-2	90
2	Heptadecane	240	C17H36	000629-78-7	68
3	Heneicosane, 10-methyl-	310	C22H46	013287-25-7	64
4	Heptacosane	380	C27H56	000593-49-7	58
5	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	52





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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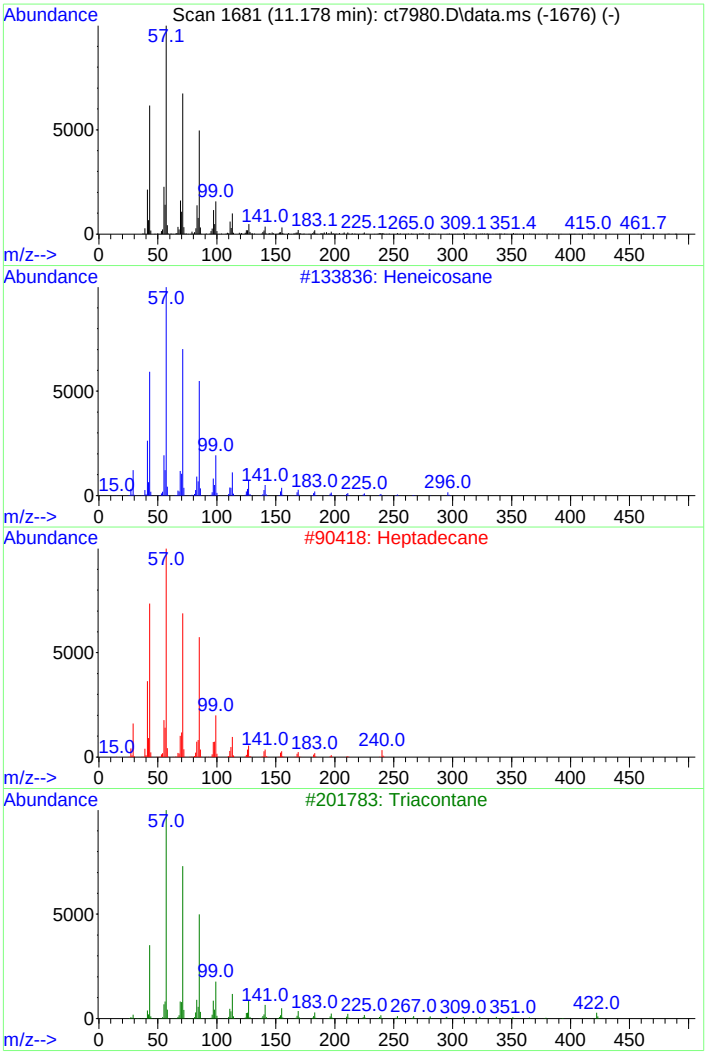
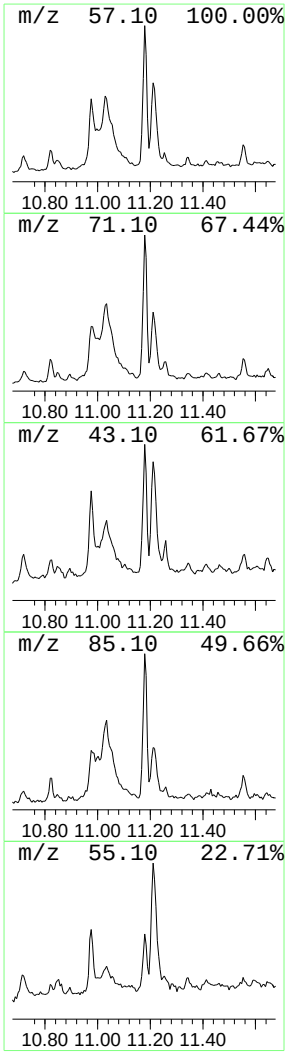
Peak Number 7 alkane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.178	5.29 ppm	369100	Perylene-d12	11.441

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	96
2	Heptadecane	240	C17H36	000629-78-7	95
3	Triacontane	422	C30H62	000638-68-6	90
4	Tetracosane	338	C24H50	000646-31-1	90
5	Hexadecane	226	C16H34	000544-76-3	87





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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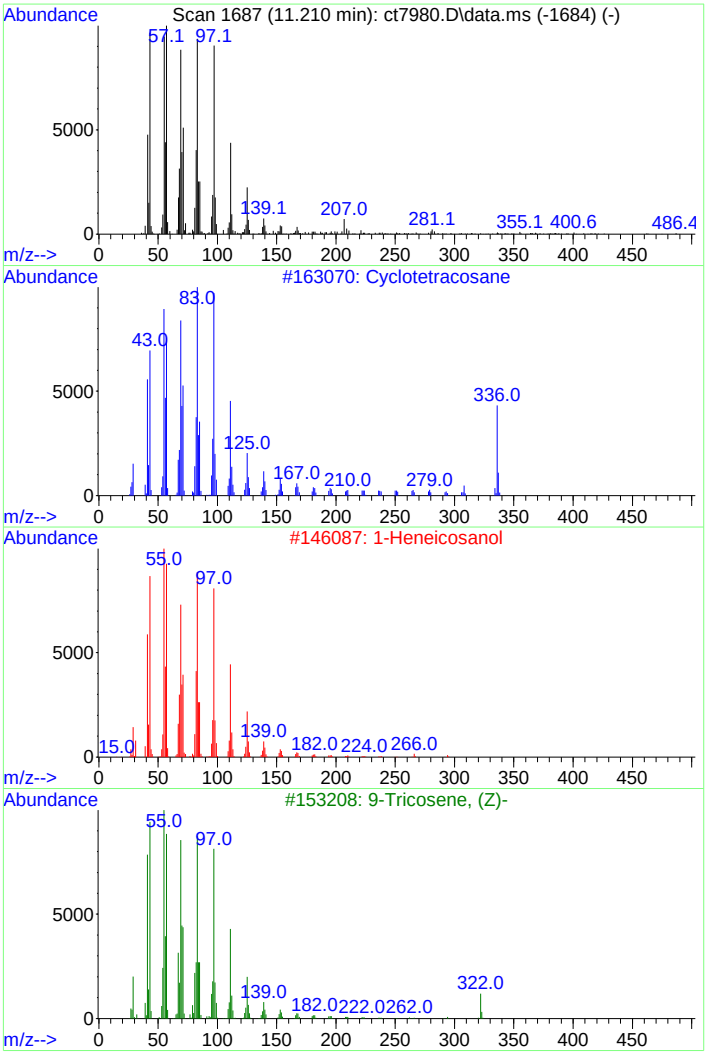
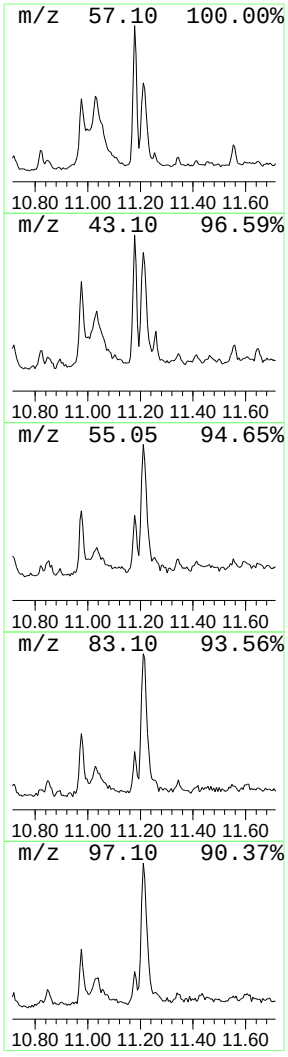
Peak Number 8 Cyclotetracosane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.211	7.92 ppm	552707	Perylene-d12	11.441

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetracosane	336	C24H48	000297-03-0	98
2	1-Heneicosanol	312	C21H44O	015594-90-8	95
3	9-Tricosene, (Z)-	322	C23H46	027519-02-4	95
4	Behenic alcohol	326	C22H46O	000661-19-8	93
5	n-Tetracosanol-1	354	C24H50O	000506-51-4	91





Library Search Compound Report

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Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

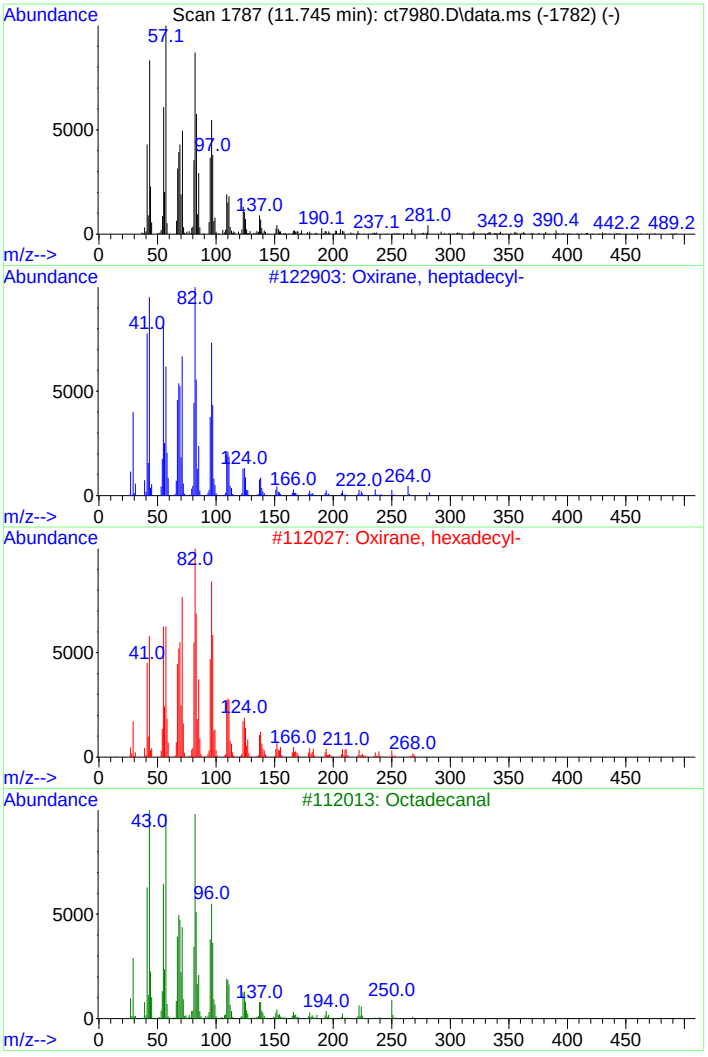
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

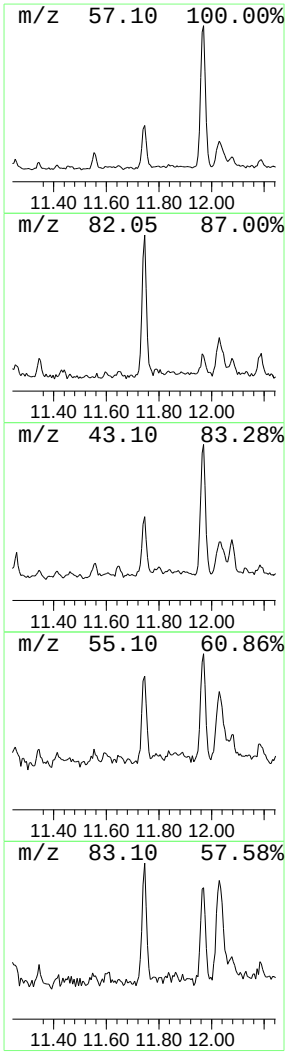
****

Peak Number 9 Oxirane, hexadecyl Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.745	5.05 ppm	352643	Perylene-d12	11.441

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	91
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
3	Octadecanal	268	C18H36O	000638-66-4	91
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	87
5	Pentadecanal-	226	C15H30O	002765-11-9	74





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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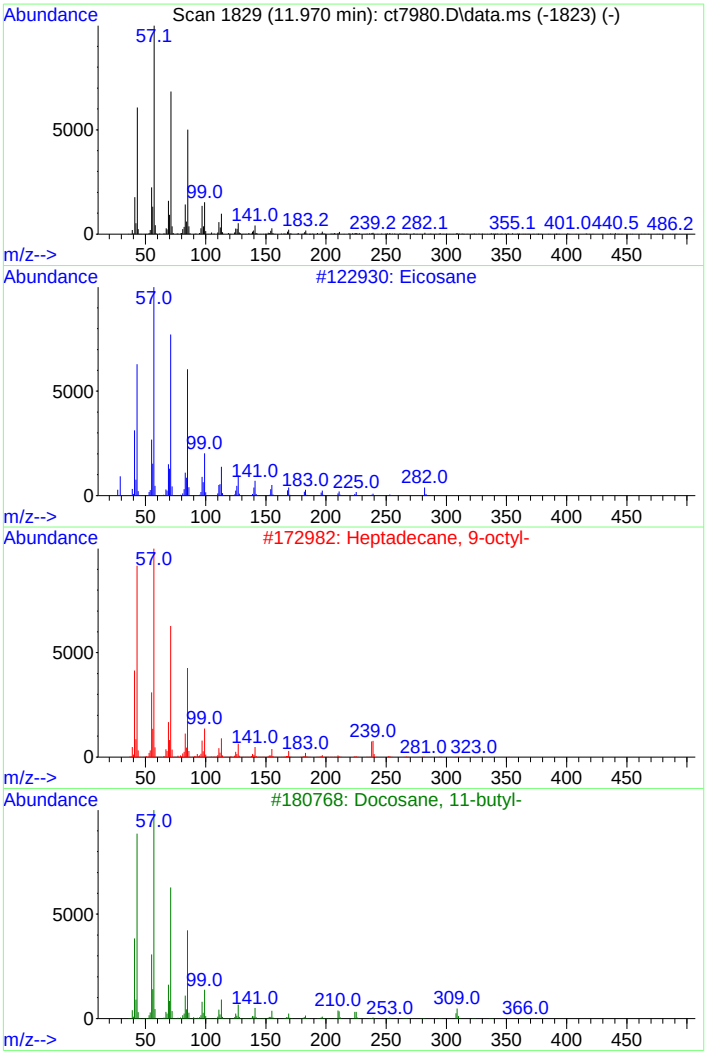
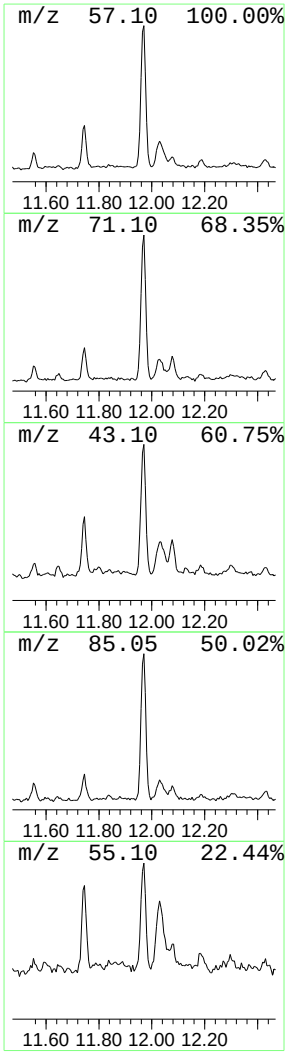
Peak Number 10 alkane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.970	8.79 ppm	613673	Perylene-d12	11.441

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	95
2	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	95
3	Docosane, 11-butyl-	366	C26H54	013475-76-8	93
4	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	91
5	Heneicosane	296	C21H44	000629-94-7	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

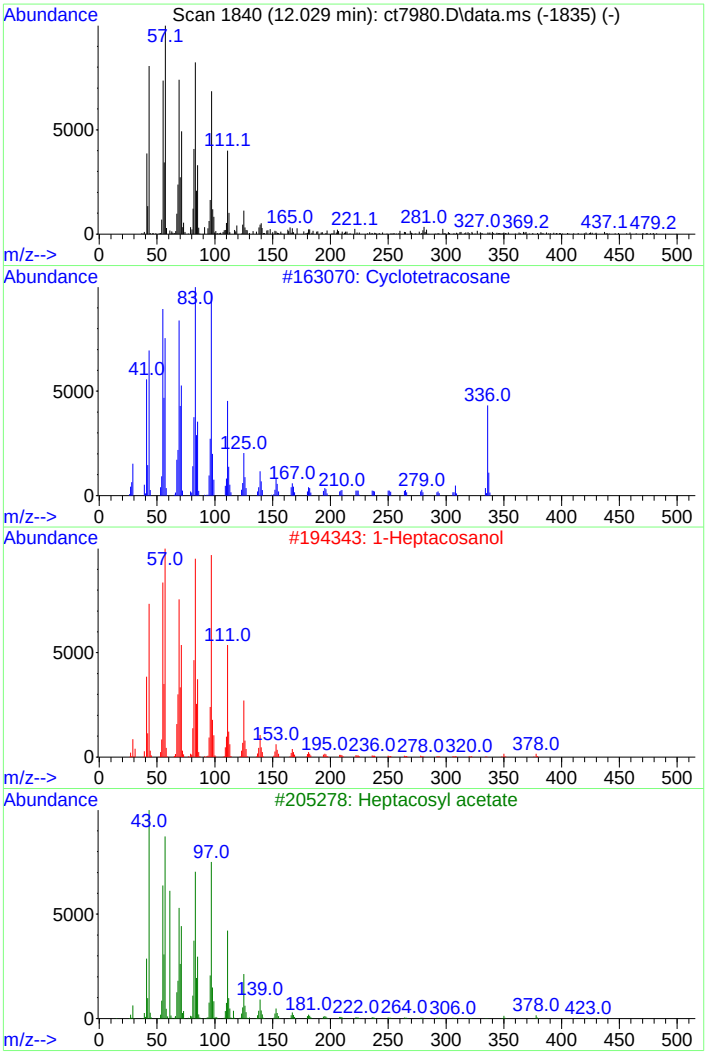
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

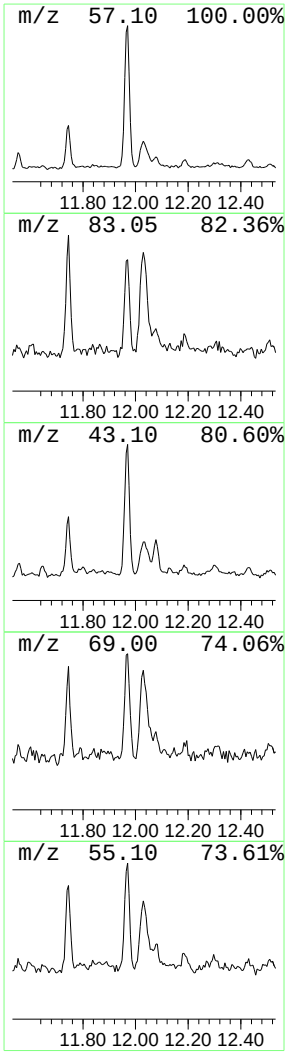
****

Peak Number 11 Cyclotetracosane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.029	5.18 ppm	361843	Perylene-d12	11.441

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetracosane	336	C24H48	000297-03-0	97
2	1-Heptacosanol	396	C27H56O	002004-39-9	91
3	Heptacosyl acetate	438	C29H58O2	1000351-78-2	89
4	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	86
5	Behenic alcohol	326	C22H46O	000661-19-8	83





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

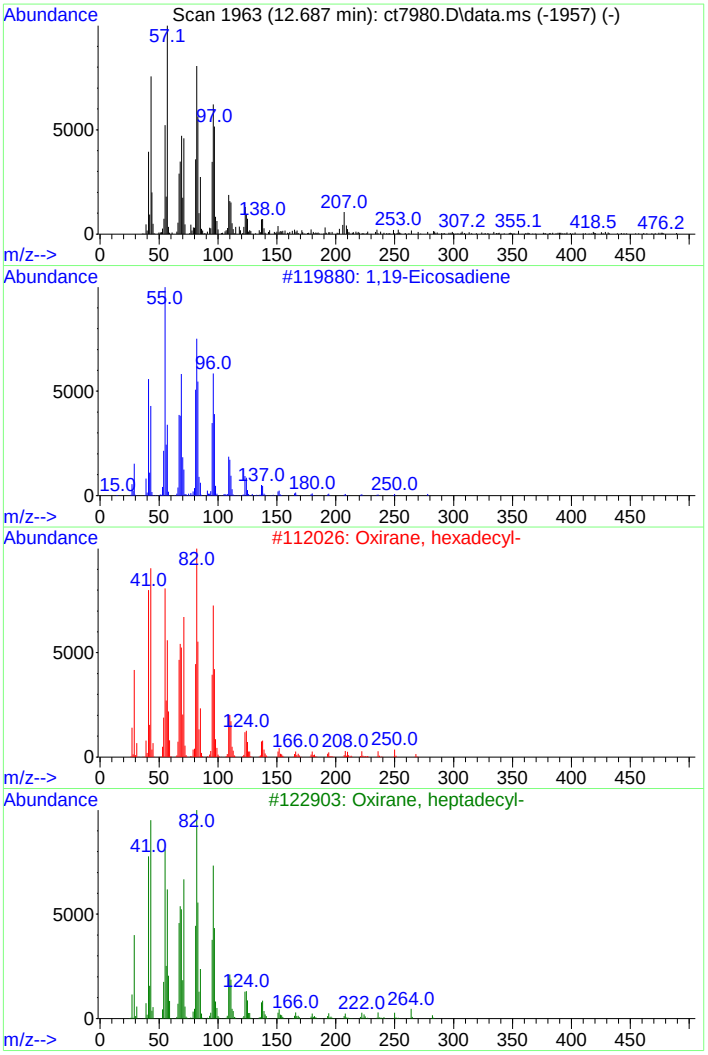
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

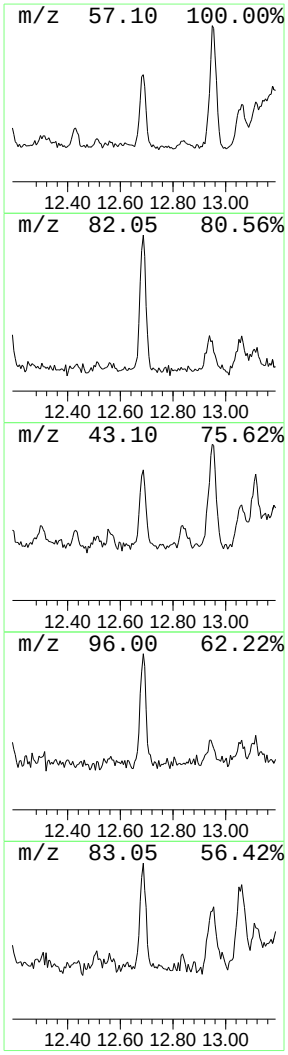
****

Peak Number 12 Oxirane, hexadecyl Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.687	5.13 ppm	357721	Perylene-d12	11.441

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,19-Eicosadiene	278	C20H38	014811-95-1	89
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	76
3	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	76
4	Octadecanal	268	C18H36O	000638-66-4	64
5	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	58





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

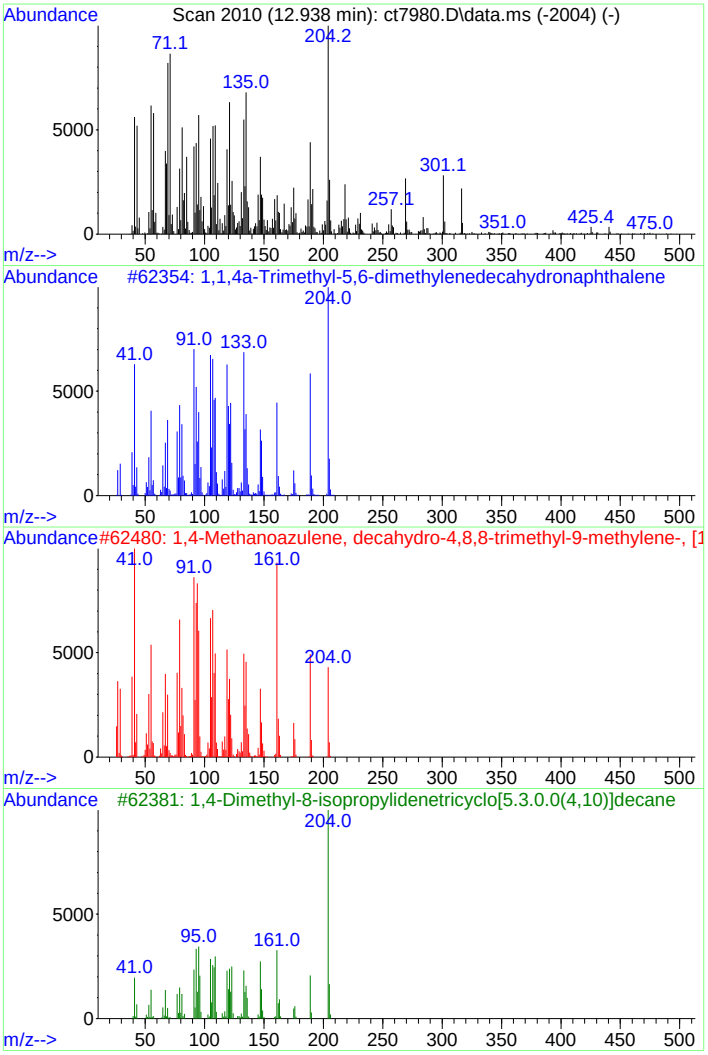
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

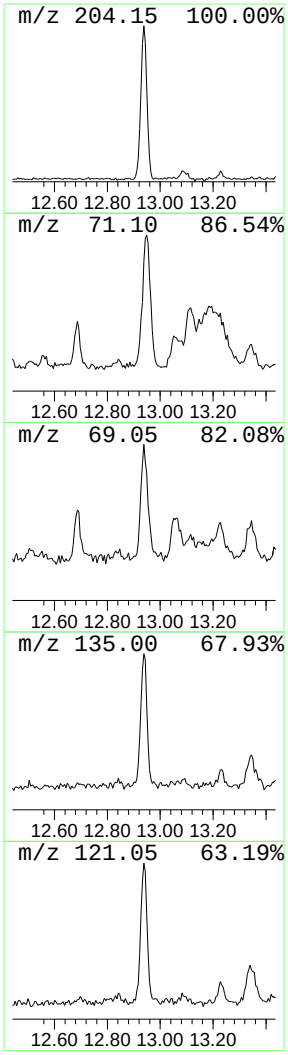
****

Peak Number 13 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.938	17.19 ppm	1199630	Perylene-d12	11.441

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	76
2	1,4-Methanoazulene, decahydro-4,...	204	C15H24	000475-20-7	74
3	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1000140-07-7	64
4	Naphthalene, decahydro-4a-methyl...	204	C15H24	017066-67-0	55
5	7-Oxabicyclo[4.1.0]heptane, 2,2,...	218	C15H22O	070038-20-9	53





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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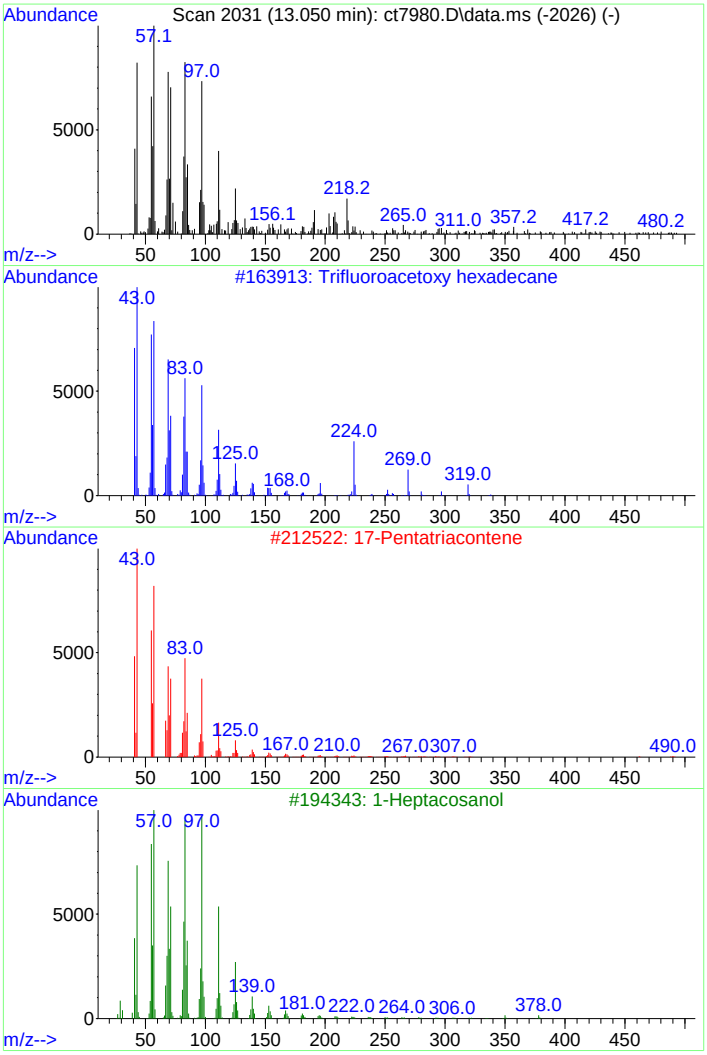
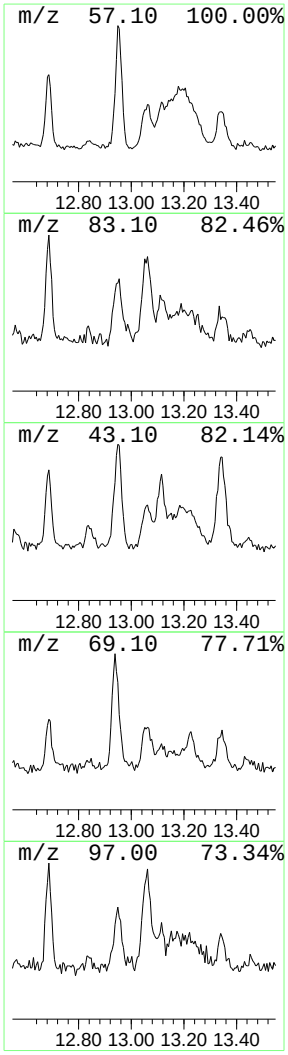
Peak Number 14 Trifluoroacetoxy hexadecane Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.050	4.02 ppm	280390	Perylene-d12	11.441

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	93
2	17-Pentatriacontene	491	C35H70	006971-40-0	91
3	1-Heptacosanol	396	C27H56O	002004-39-9	91
4	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	91
5	1-Heneicosyl formate	340	C22H44O2	077899-03-7	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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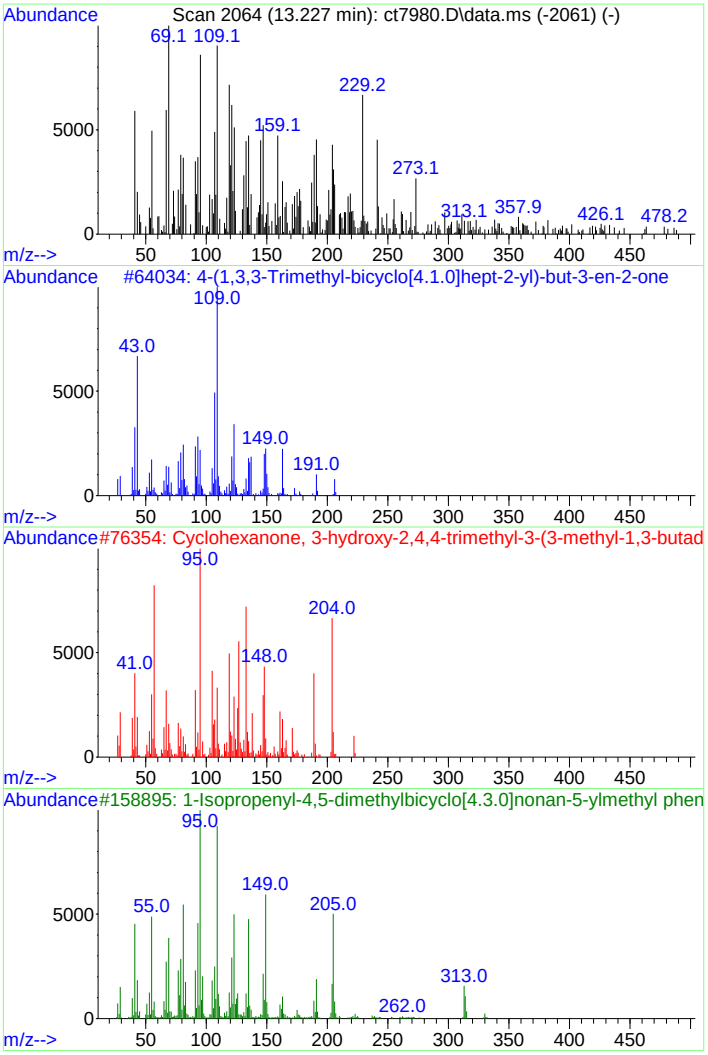
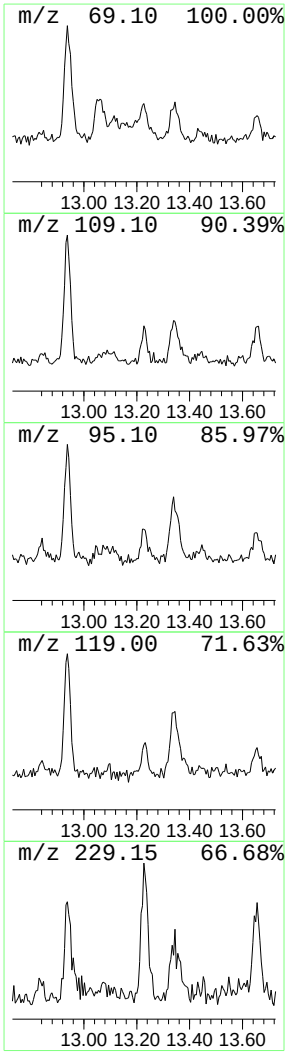
Peak Number 15 unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.227	4.54 ppm	316775	Perylene-d12	11.441

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-(1,3,3-Trimethyl-bicyclo[4.1.0...	206	C14H22O	077143-31-8	35
2	Cyclohexanone, 3-hydroxy-2,4,4-t...	222	C14H22O2	088764-84-5	25
3	1-Isopropenyl-4,5-dimethylbicycl...	330	C21H30OS	1000195-85-4	22
4	Alloaromadendrene oxide-(1)	220	C15H24O	1000156-12-8	18
5	Cyclohexane-1-methanol, 3,3-dime...	208	C14H24O	1000196-01-5	14





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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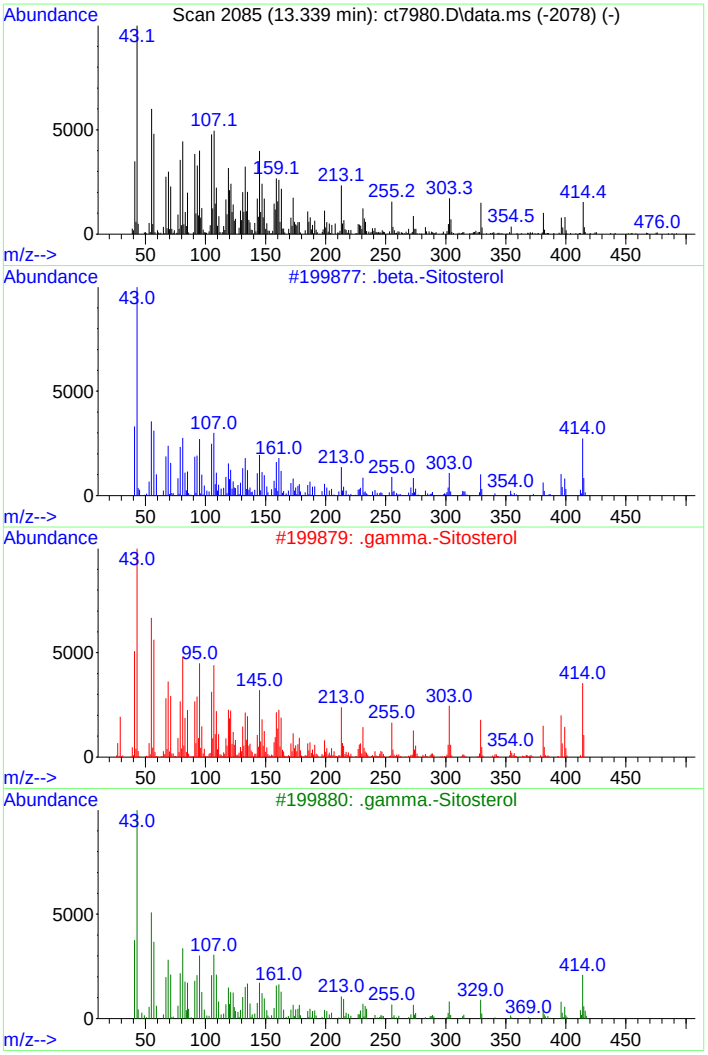
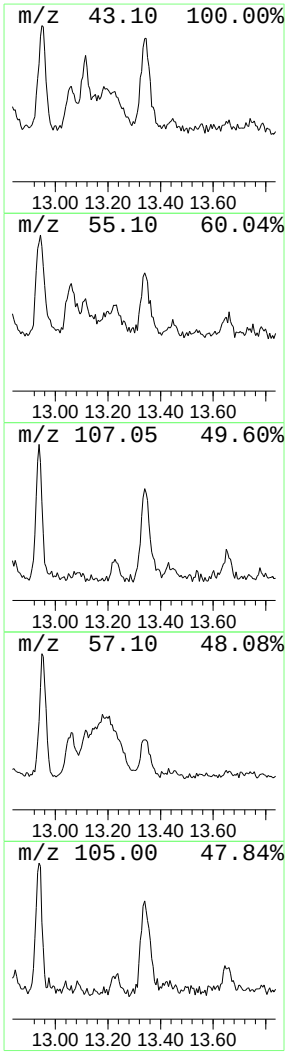
Peak Number 16 .beta.-Sitosterol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.339	10.55 ppm	736385	Perylene-d12	11.441

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Sitosterol	414	C29H50O	000083-46-5	90
2	.gamma.-Sitosterol	414	C29H50O	000083-47-6	81
3	.gamma.-Sitosterol	414	C29H50O	000083-47-6	74
4	.beta.-Sitosterol	414	C29H50O	000083-46-5	70
5	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	58





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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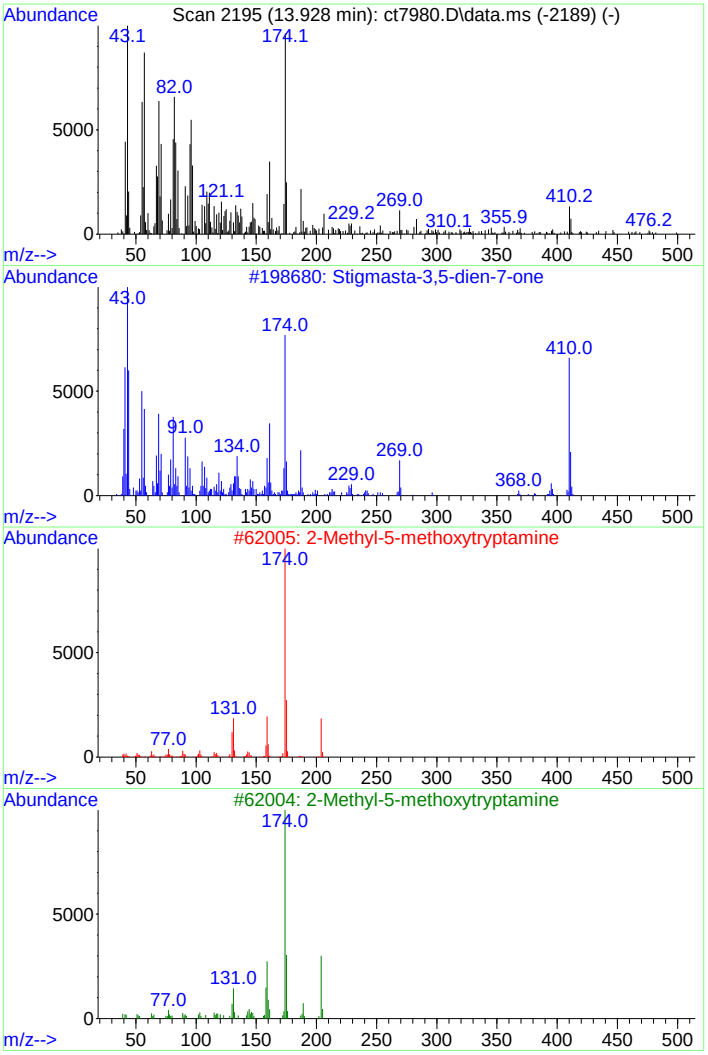
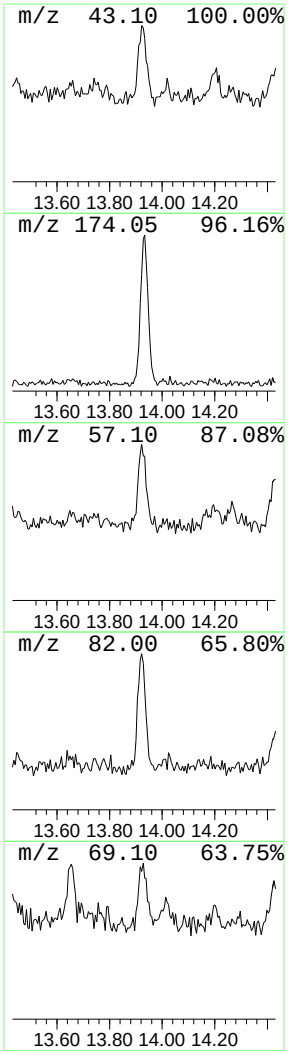
Peak Number 17 2-Methyl-5-methoxytryptamine Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.928	4.25 ppm	296800	Perylene-d12	11.441

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmasta-3,5-dien-7-one	410	C29H46O	002034-72-2	78
2	2-Methyl-5-methoxytryptamine	204	C12H16N2O	003143-97-3	35
3	2-Methyl-5-methoxytryptamine	204	C12H16N2O	003143-97-3	25
4	Phthalimide, N-(1-hydroxy-2-prop...	205	C11H11NO3	1000164-06-1	25
5	1H-Pyrazol-5-amine, 1-(4-pyridin...	174	C9H10N4	1000337-48-1	22





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7980.D
Acq On : 03 Jul 2024 02:47 pm
Operator : karimam
Sample : jd91339-10
Misc : op55800,ect375,30.1,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown	4.685	8.8	ppm	664556	4	4.289	3004920	40.0
unknown	9.590	5.7	ppm	393500	9	9.798	2760570	40.0
Cyclopentadecane	9.686	8.8	ppm	605843	9	9.798	2760570	40.0
n-Tetracosanol	10.472	12.0	ppm	830204	10	9.798	2760570	40.0
Oxirane, hexadecyl	10.975	6.0	ppm	416080	11	11.441	2791580	40.0
alkane	11.034	6.8	ppm	474769	11	11.441	2791580	40.0
alkane	11.178	5.3	ppm	369100	11	11.441	2791580	40.0
Cyclotetracosane	11.211	7.9	ppm	552707	11	11.441	2791580	40.0
Oxirane, hexadecyl	11.745	5.0	ppm	352643	11	11.441	2791580	40.0
alkane	11.970	8.8	ppm	613673	11	11.441	2791580	40.0
Cyclotetracosane	12.029	5.2	ppm	361843	11	11.441	2791580	40.0
Oxirane, hexadecyl	12.687	5.1	ppm	357721	11	11.441	2791580	40.0
unknown	12.938	17.2	ppm	1199630	11	11.441	2791580	40.0
Trifluoroacetox...	13.050	4.0	ppm	280390	11	11.441	2791580	40.0
unknown	13.227	4.5	ppm	316775	11	11.441	2791580	40.0
.beta.-Sitosterol	13.339	10.6	ppm	736385	11	11.441	2791580	40.0
2-Methyl-5-meth...	13.928	4.3	ppm	296800	11	11.441	2791580	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jacky Takeuchi 07/03/24 21:22

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7981.D
Acq On : 03 Jul 2024 03:06 pm
Operator : karimam
Sample : jd91339-11 Inst : GCMS_CT
Misc : op55800,ect375,16.9,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 03 20:24:53 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

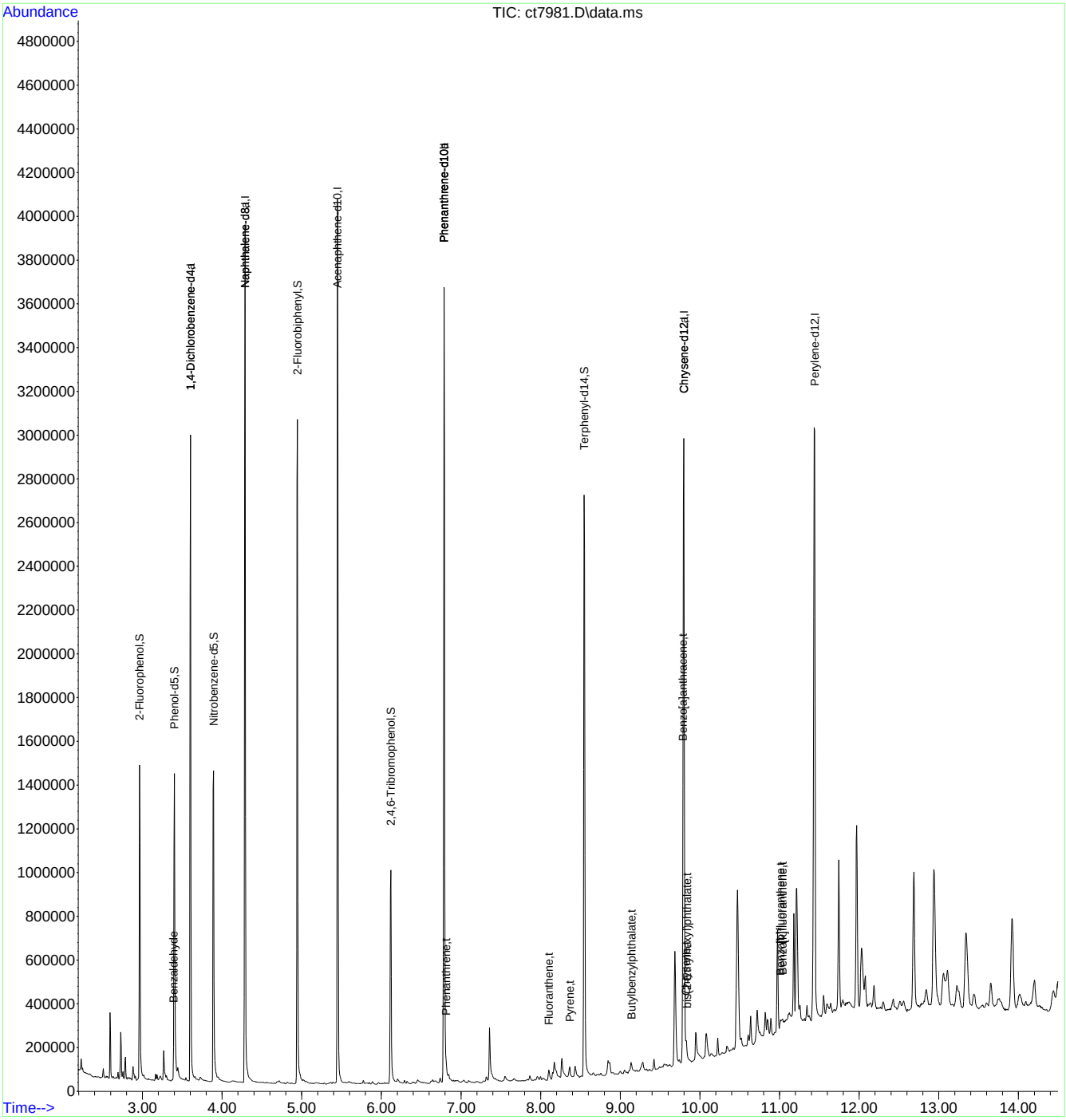
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.605	152	344363	40.00	ppm	0.00
24) Naphthalene-d8	4.289	136	1368854	40.00	ppm	0.00
46) Acenaphthene-d10	5.450	164	759920	40.00	ppm	0.00
69) Phenanthrene-d10	6.787	188	1305097	40.00	ppm	0.00
84) Chrysene-d12	9.798	240	1016267	40.00	ppm	0.00
93) Perylene-d12	11.440	264	1181670	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	3.605	152	344363	40.00	ppm	0.00
105) Phenanthrene-d10a	6.787	188	1305097	40.00	ppm	0.00
107) Naphthalene-d8a	4.289	136	1368854	40.00	ppm	0.00
109) Phenanthrene-d10b	6.787	188	1305097	40.00	ppm	0.00
112) Chrysene-d12a	9.798	240	1016267	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.963	112	330943	29.79	ppm	0.00
Spiked Amount 50.000			Recovery = 59.58%			
8) Phenol-d5	3.401	99	438991	31.56	ppm	0.00
Spiked Amount 50.000			Recovery = 63.12%			
25) Nitrobenzene-d5	3.893	82	438588	31.16	ppm	0.00
Spiked Amount 50.000			Recovery = 62.32%			
51) 2-Fluorobiphenyl	4.947	172	822964	34.71	ppm	0.00
Spiked Amount 50.000			Recovery = 69.42%			
74) 2,4,6-Tribromophenol	6.118	330	97754	39.42	ppm	0.00
Spiked Amount 50.000			Recovery = 78.84%			
87) Terphenyl-d14	8.547	244	884715	35.12	ppm	0.00
Spiked Amount 50.000			Recovery = 70.24%			
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
78) Phenanthrene	6.814	178	11666	0.3476	ppm	99
82) Fluoranthene	8.103	202	22627	0.7049	ppm	100
86) Pyrene	8.365	202	21855	0.6056	ppm	97
88) Butylbenzylphthalate	9.140	149	1367	1.5822	ppm	82
89) Benzo[a]anthracene	9.788	228	13809	0.4363	ppm	93
91) Chrysene	9.825	228	12084	0.3896	ppm	93
92) bis(2-Ethylhexyl)phtha...	9.841	149	4005	1.6777	ppm	99
95) Benzo[b]fluoranthene	11.013	252	15276m	0.4554	ppm	
96) Benzo[k]fluoranthene	11.039	252	7480m	0.2260	ppm	
104) Benzaldehyde	3.391	105	4315	0.4108	ppm	96

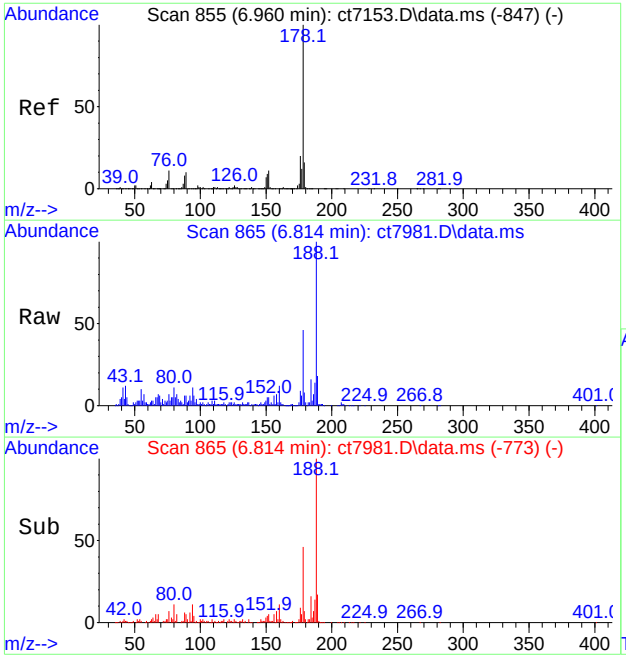
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7981.D
Acq On : 03 Jul 2024 03:06 pm
Operator : karimam
Sample : jd91339-11 Inst : GCMS_CT
Misc : op55800,ect375,16.9,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 03 20:24:53 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

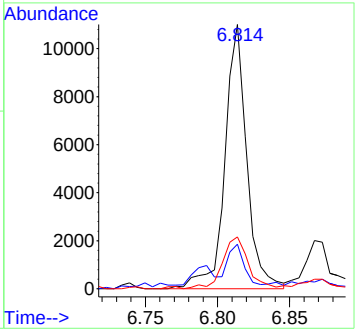


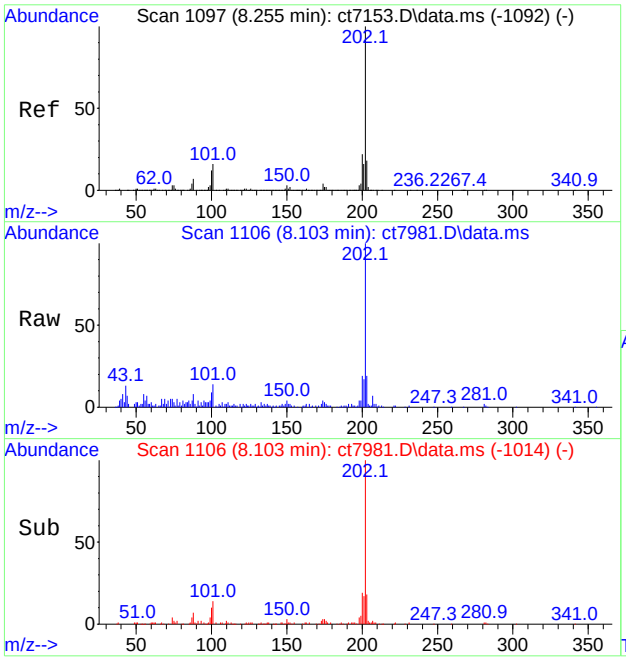


#78
Phenanthrene
Concen: 0.3476 ppm
RT: 6.814 min Scan# 865
Delta R.T. -0.005 min
Lab File: ct7981.D
Acq: 03 Jul 2024 03:06 pm

Tgt Ion:178 Resp: 11666

Ion	Ratio	Lower	Upper
178	100		
179	15.3	0.0	44.9
176	19.3	0.0	49.7

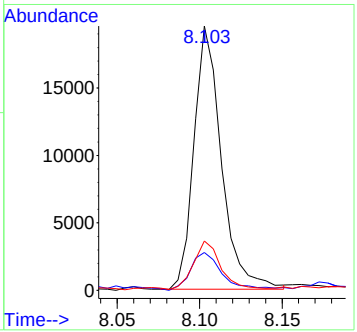


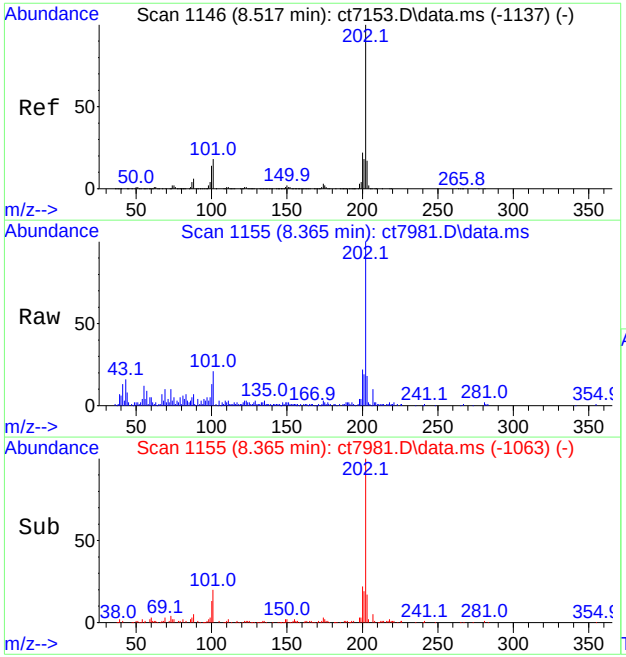


#82
Fluoranthene
Concen: 0.7049 ppm
RT: 8.103 min Scan# 1106
Delta R.T. -0.005 min
Lab File: ct7981.D
Acq: 03 Jul 2024 03:06 pm

Tgt Ion:202 Resp: 22627

Ion	Ratio	Lower	Upper
202	100		
101	13.6	0.0	43.5
203	17.8	0.0	47.6

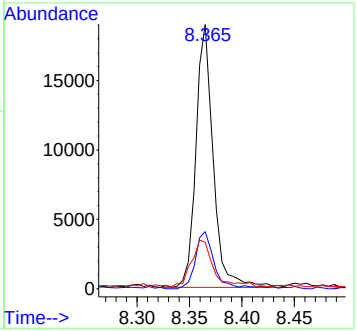


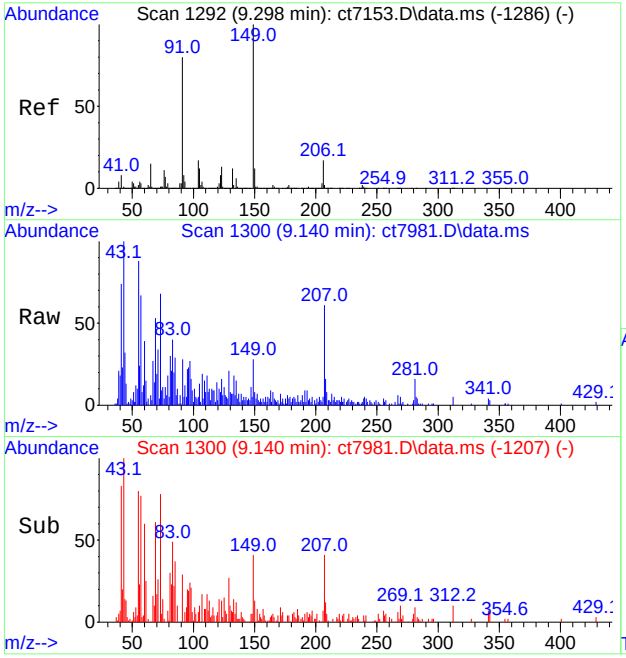


#86
Pyrene
Concen: 0.6056 ppm
RT: 8.365 min Scan# 1155
Delta R.T. -0.005 min
Lab File: ct7981.D
Acq: 03 Jul 2024 03:06 pm

Tgt Ion:202 Resp: 21855

Ion	Ratio	Lower	Upper
202	100		
200	21.2	0.0	52.6
203	16.5	0.0	47.9

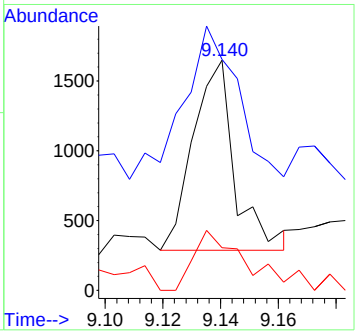


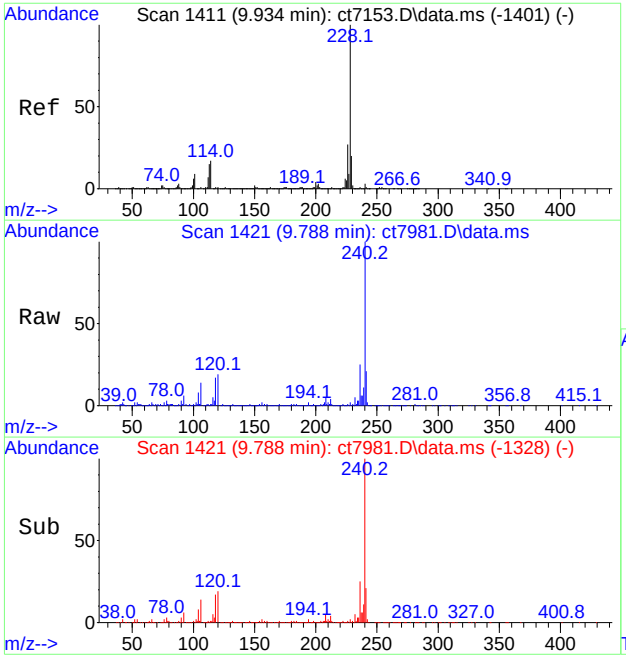


#88
Butylbenzylphthalate
Concen: 1.5822 ppm
RT: 9.140 min Scan# 1300
Delta R.T. 0.000 min
Lab File: ct7981.D
Acq: 03 Jul 2024 03:06 pm

Tgt Ion:149 Resp: 1367

Ion	Ratio	Lower	Upper
149	100		
91	61.2	49.4	109.4
206	21.4	0.0	47.9

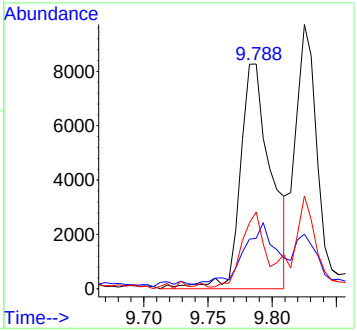


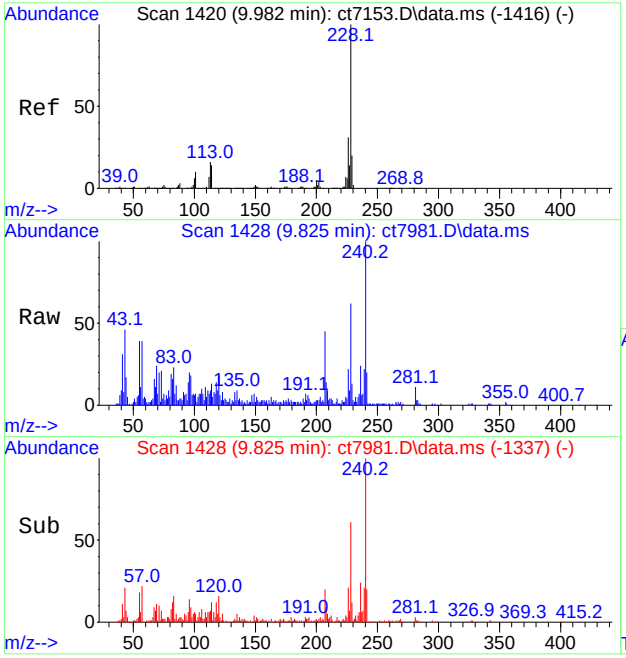


#89
Benzo[a]anthracene
Concen: 0.4363 ppm
RT: 9.788 min Scan# 1421
Delta R.T. 0.000 min
Lab File: ct7981.D
Acq: 03 Jul 2024 03:06 pm

Tgt Ion:228 Resp: 13809

Ion	Ratio	Lower	Upper
228	100		
229	17.8	0.0	50.1
226	32.7	0.0	58.0

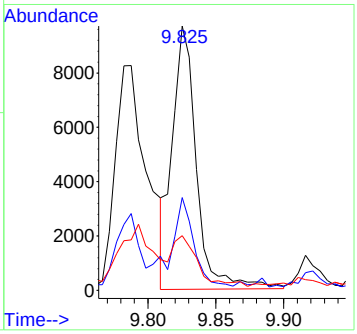


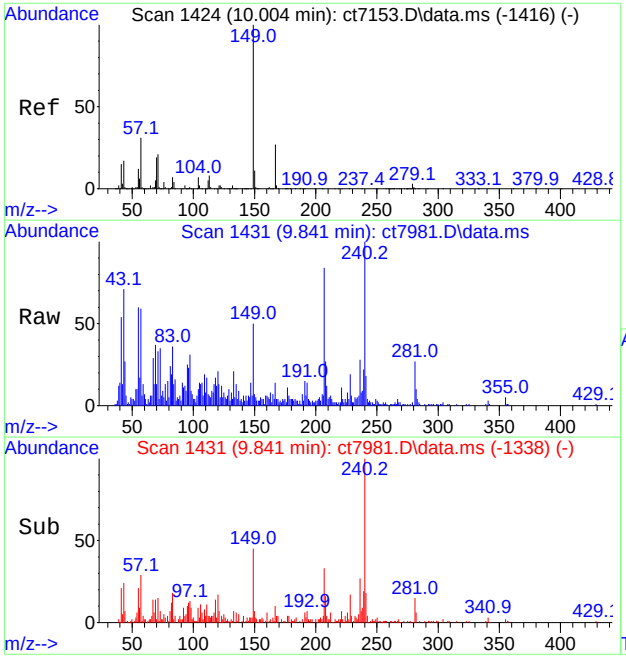


#91
Chrysene
Concen: 0.3896 ppm
RT: 9.825 min Scan# 1428
Delta R.T. -0.011 min
Lab File: ct7981.D
Acq: 03 Jul 2024 03:06 pm

Tgt Ion:228 Resp: 12084

Ion	Ratio	Lower	Upper
228	100		
226	34.2	1.3	61.3
229	16.4	0.0	50.3

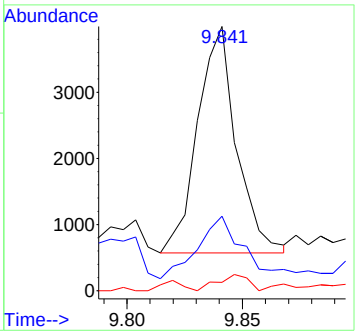


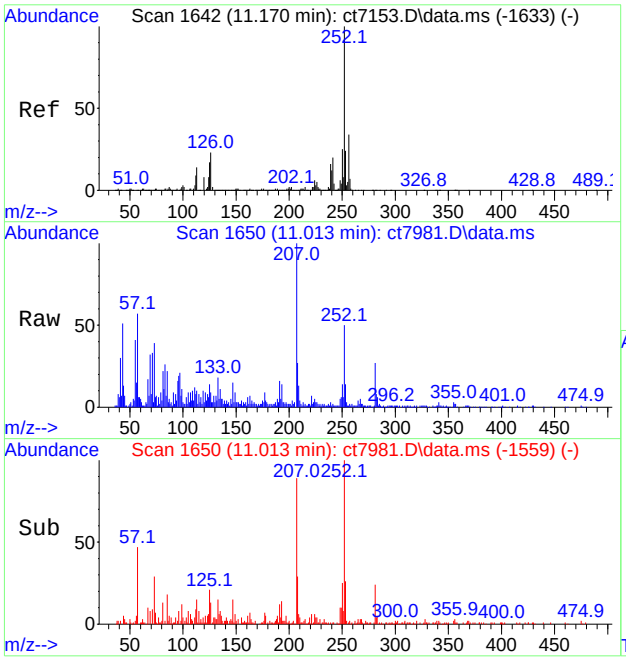


#92
bis(2-Ethylhexyl)phthalate
Concen: 1.6777 ppm
RT: 9.841 min Scan# 1431
Delta R.T. 0.000 min
Lab File: ct7981.D
Acq: 03 Jul 2024 03:06 pm

Tgt Ion:149 Resp: 4005

Ion	Ratio	Lower	Upper
149	100		
167	26.1	0.0	56.3
279	1.0	0.0	33.6

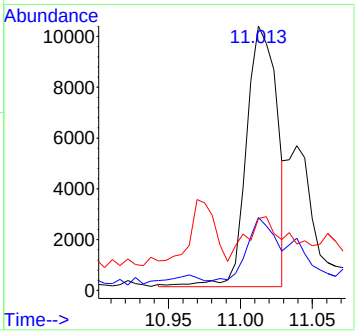


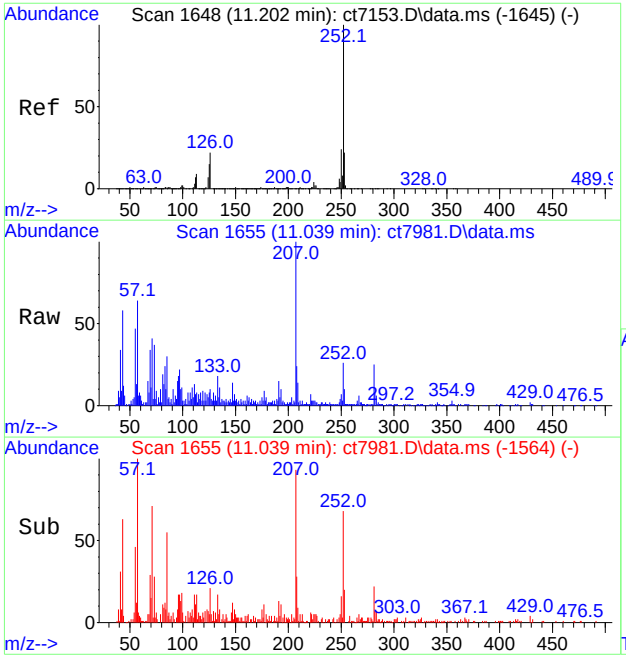


#95
Benzo[b]fluoranthene
Concen: 0.4554 ppm m
RT: 11.013 min Scan# 1650
Delta R.T. -0.011 min
Lab File: ct7981.D
Acq: 03 Jul 2024 03:06 pm

Tgt Ion:252 Resp: 15276

Ion	Ratio	Lower	Upper
252	100		
253	27.6	0.0	52.7
125	27.1	0.0	42.1

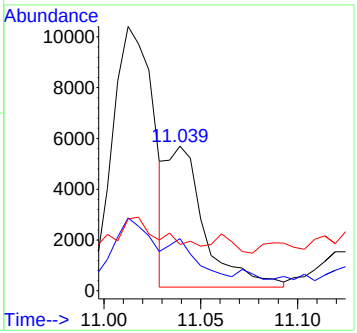


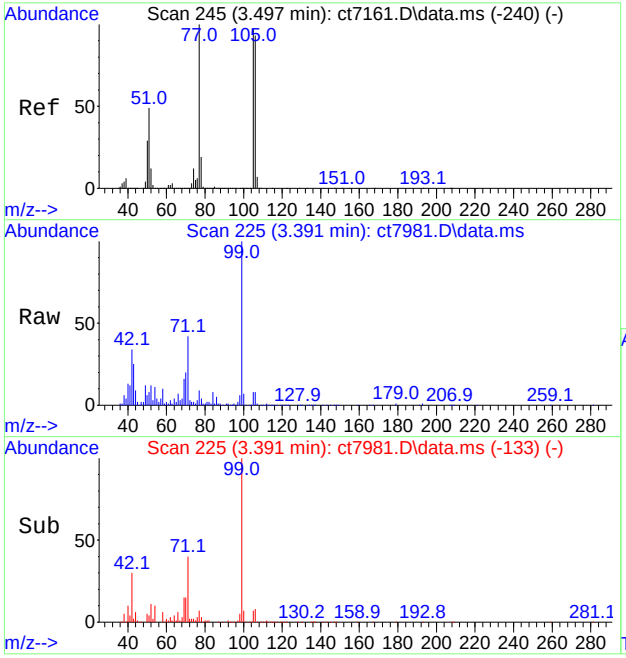


#96
Benzo[k]fluoranthene
Concen: 0.2260 ppm m
RT: 11.039 min Scan# 1655
Delta R.T. -0.011 min
Lab File: ct7981.D
Acq: 03 Jul 2024 03:06 pm

Tgt Ion:252 Resp: 7480

Ion	Ratio	Lower	Upper
252	100		
253	36.1	0.0	53.4
125	32.0	0.0	43.7

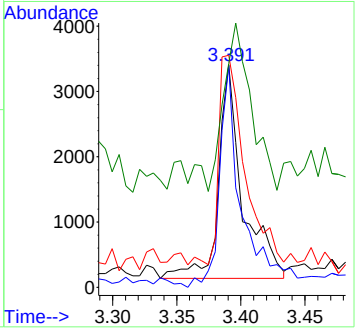




#104
Benzaldehyde
Concen: 0.4108 ppm
RT: 3.391 min Scan# 225
Delta R.T. -0.010 min
Lab File: ct7981.D
Acq: 03 Jul 2024 03:06 pm

Tgt Ion:105 Resp: 4315

Ion	Ratio	Lower	Upper
105	100		
106	99.1	66.8	126.8
77	98.7	70.7	130.7
51	51.6	15.5	75.5



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7981.D
Acq On : 03 Jul 2024 03:06 pm
Operator : karimam
Sample : jd91339-11
Misc : op55800,ect375,16.9,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: ct7981.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.139	358	365	372	rBV	6524	20478	0.57%	0.053%
2	4.289	387	393	421	rBV	3920199	2915495	81.62%	7.615%
3	4.503	431	433	440	rVB8	5020	6492	0.18%	0.017%
4	4.557	440	443	450	rVB9	4234	5765	0.16%	0.015%
5	4.696	464	469	470	rBV4	8556	11751	0.33%	0.031%
6	4.717	470	473	483	rVB4	12337	20575	0.58%	0.054%
7	4.781	483	485	488	rVB4	6361	5342	0.15%	0.014%
8	4.813	488	491	498	rBV8	9123	16644	0.47%	0.043%
9	4.947	507	516	528	rBV	3038042	2512980	70.36%	6.564%
10	5.017	528	529	534	rVV5	17387	24954	0.70%	0.065%
11	5.054	534	536	544	rVB9	10228	18379	0.51%	0.048%
12	5.172	554	558	562	rBV7	5268	9002	0.25%	0.024%
13	5.198	562	563	573	rVB10	5312	9062	0.25%	0.024%
14	5.284	577	579	584	rVB6	6401	6171	0.17%	0.016%
15	5.364	584	594	597	rBV7	9213	18927	0.53%	0.049%
16	5.391	597	599	603	rBV2	6742	7272	0.20%	0.019%
17	5.450	605	610	625	rVV	4044100	3333589	93.33%	8.707%
18	5.546	625	628	631	rVV5	5774	8713	0.24%	0.023%
19	5.594	631	637	645	rVB5	9653	18766	0.53%	0.049%
20	5.664	645	650	654	rVB8	3966	7576	0.21%	0.020%
21	5.771	663	670	674	rBV2	15819	21304	0.60%	0.056%
22	5.851	683	685	688	rVB3	8505	7508	0.21%	0.020%
23	5.888	688	692	700	rVB5	12687	18951	0.53%	0.049%
24	5.969	700	707	709	rBV7	8067	10658	0.30%	0.028%
25	6.044	717	721	723	rVB5	6514	5595	0.16%	0.015%
26	6.118	729	735	747	rBV	976068	1012347	28.34%	2.644%
27	6.204	747	751	762	rVB6	19516	35292	0.99%	0.092%
28	6.290	762	767	771	rVB7	14525	13933	0.39%	0.036%
29	6.322	771	773	781	rVB9	12415	16614	0.47%	0.043%
30	6.391	781	786	788	rBV6	8925	11850	0.33%	0.031%
31	6.455	793	798	807	rBV6	17434	42343	1.19%	0.111%
32	6.643	825	833	836	rBV5	16736	31135	0.87%	0.081%
33	6.675	836	839	847	rVB7	9261	19295	0.54%	0.050%
34	6.739	847	851	855	rBV5	22525	27019	0.76%	0.071%
35	6.787	855	860	869	rBV	3635533	3404040	95.30%	8.891%
36	6.958	889	892	899	rVB3	10220	17198	0.48%	0.045%
37	7.038	899	907	912	rVB3	11124	23570	0.66%	0.062%
38	7.097	915	918	925	rBV7	10791	15430	0.43%	0.040%
39	7.194	932	936	947	rVB7	8033	18956	0.53%	0.050%
40	7.284	947	953	955	rBV7	10083	15800	0.44%	0.041%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7981.D
Acq On : 03 Jul 2024 03:06 pm
Operator : karimam
Sample : jd91339-11
Misc : op55800,ect375,16.9,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	7.322	955	960	963	rBV4	21522	25073	0.70%	0.065%
42	7.359	963	967	979	rBV2	239820	293320	8.21%	0.766%
43	7.552	996	1003	1015	rBV5	23420	49652	1.39%	0.130%
44	7.664	1017	1024	1033	rVB5	12256	27265	0.76%	0.071%
45	7.830	1050	1055	1058	rBV7	6116	8191	0.23%	0.021%
46	7.862	1058	1061	1066	rVB3	21917	25882	0.72%	0.068%
47	7.958	1075	1079	1084	rBV7	17404	26028	0.73%	0.068%
48	8.001	1084	1087	1089	rVV2	14828	12693	0.36%	0.033%
49	8.028	1089	1092	1102	rVB2	10726	20337	0.57%	0.053%
50	8.103	1102	1106	1112	rBV	47400	63509	1.78%	0.166%
51	8.172	1112	1119	1133	rBV7	79560	204108	5.71%	0.533%
52	8.269	1133	1137	1149	rVV2	92051	156508	4.38%	0.409%
53	8.365	1149	1155	1162	rVV	51351	83132	2.33%	0.217%
54	8.434	1164	1168	1178	rVB2	52539	90751	2.54%	0.237%
55	8.547	1184	1189	1206	rBV	2659014	2734612	76.56%	7.143%
56	8.659	1207	1210	1216	rVV8	14454	22958	0.64%	0.060%
57	8.718	1217	1221	1225	rVV7	6822	14042	0.39%	0.037%
58	8.755	1225	1228	1234	rVB8	11158	12617	0.35%	0.033%
59	8.846	1239	1245	1254	rBV4	66677	154454	4.32%	0.403%
60	9.001	1269	1274	1280	rBV10	14861	24230	0.68%	0.063%
61	9.055	1280	1284	1288	rBV5	18246	23540	0.66%	0.061%
62	9.135	1292	1299	1309	rBV7	50469	108023	3.02%	0.282%
63	9.285	1318	1327	1333	rBV5	42224	92804	2.60%	0.242%
64	9.424	1348	1353	1357	rBV	53199	57515	1.61%	0.150%
65	9.494	1363	1366	1369	rBV5	9678	10997	0.31%	0.029%
66	9.552	1374	1377	1381	rBV6	13698	22211	0.62%	0.058%
67	9.686	1396	1402	1411	rBV	523674	725358	20.31%	1.895%
68	9.798	1416	1423	1441	rVV	2857492	3273819	91.66%	8.551%
69	9.948	1448	1451	1468	rBV	125898	225541	6.31%	0.589%
70	10.082	1472	1476	1484	rVV2	107556	178492	5.00%	0.466%
71	10.226	1499	1503	1507	rBV2	82051	83139	2.33%	0.217%
72	10.339	1522	1524	1530	rBV7	29601	43092	1.21%	0.113%
73	10.472	1541	1549	1564	rBV2	729167	1337831	37.45%	3.494%
74	10.606	1571	1574	1576	rBV2	48790	49427	1.38%	0.129%
75	10.638	1576	1580	1586	rVB	131991	134018	3.75%	0.350%
76	10.718	1589	1595	1606	rBV3	149767	320634	8.98%	0.837%
77	10.820	1610	1614	1617	rVV	117058	144531	4.05%	0.378%
78	10.852	1617	1620	1624	rVV4	78284	114867	3.22%	0.300%
79	10.890	1624	1627	1632	rVB	76439	90426	2.53%	0.236%
80	10.975	1638	1643	1647	rBV	468278	446737	12.51%	1.167%
81	11.178	1677	1681	1684	rBV	467070	458023	12.82%	1.196%
82	11.216	1684	1688	1694	rVV	565609	800043	22.40%	2.090%
83	11.344	1709	1712	1716	rBV3	64911	70290	1.97%	0.184%
84	11.435	1722	1729	1743	rBV	2713912	3571839	100.00%	9.330%
85	11.553	1747	1751	1756	rBV	89665	100375	2.81%	0.262%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7981.D
Acq On : 03 Jul 2024 03:06 pm
Operator : karimam
Sample : jd91339-11
Misc : op55800,ect375,16.9,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	11.596	1757	1759	1764	rVV5	31535	48334	1.35%	0.126%
87	11.745	1781	1787	1792	rBV	682578	785453	21.99%	2.052%
88	11.970	1823	1829	1835	rBV	833622	1090152	30.52%	2.847%
89	12.029	1835	1840	1846	rVV2	269713	559123	15.65%	1.460%
90	12.077	1847	1849	1854	rVB	141585	151296	4.24%	0.395%
91	12.184	1866	1869	1876	rVB4	108301	161526	4.52%	0.422%
92	12.687	1957	1963	1972	rBV	622436	957574	26.81%	2.501%
93	12.938	2003	2010	2025	rVB3	620868	1286043	36.01%	3.359%
94	13.061	2026	2033	2038	rBV4	144747	378708	10.60%	0.989%
95	13.227	2060	2064	2077	rVB7	102850	284076	7.95%	0.742%
96	13.339	2079	2085	2099	rVV3	338313	824472	23.08%	2.153%
97	13.655	2139	2144	2152	rVB8	107530	196737	5.51%	0.514%
98	13.917	2187	2193	2203	rVB2	408098	866620	24.26%	2.264%
99	14.200	2241	2246	2255	rVB4	121322	244509	6.85%	0.639%
100	14.441	2285	2291	2296	rBV7	68367	171096	4.79%	0.447%

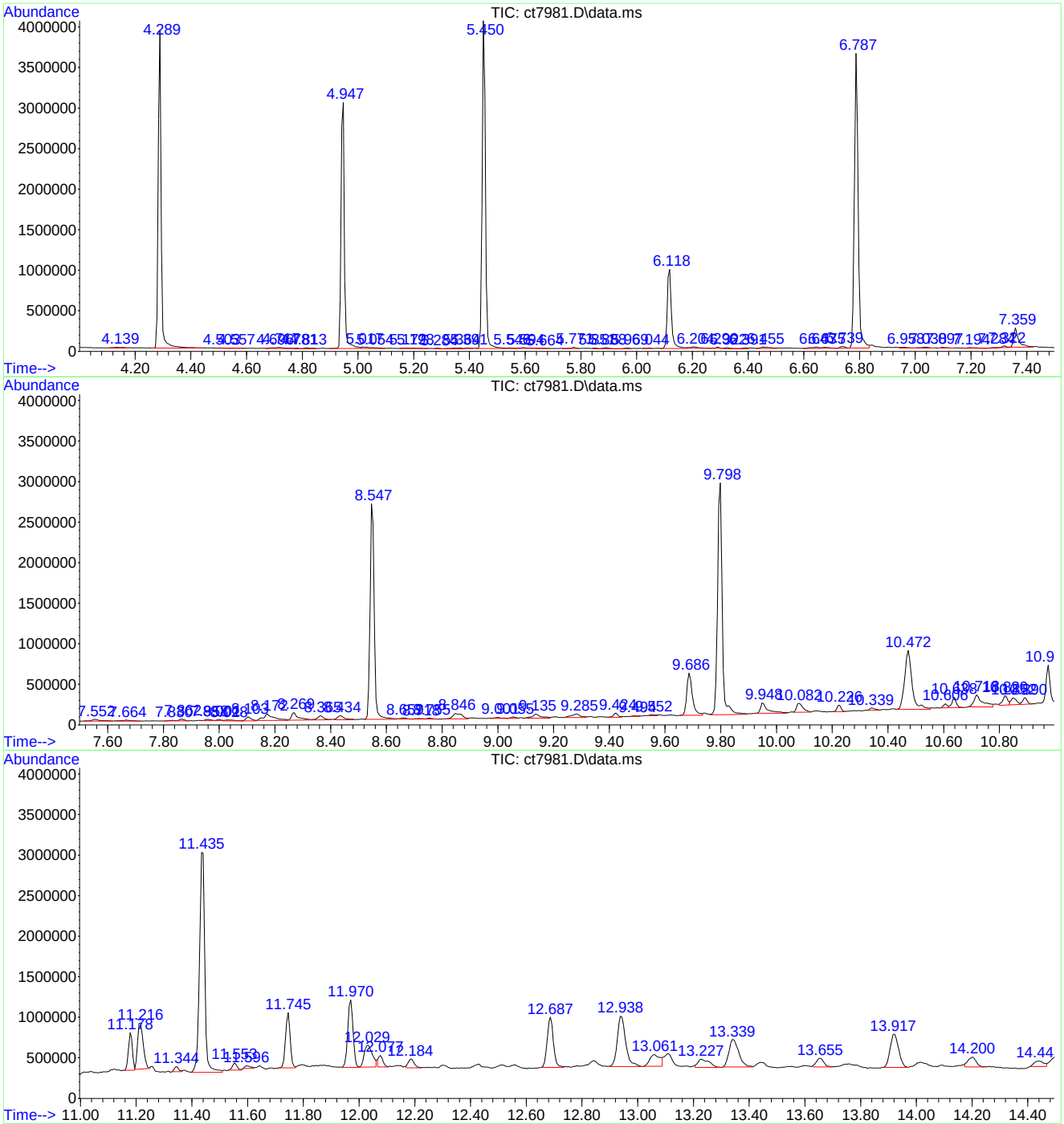
Sum of corrected areas: 38285424

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7981.D
Acq On : 03 Jul 2024 03:06 pm
Operator : karimam
Sample : jd91339-11
Misc : op55800,ect375,16.9,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

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Operator : karimam
Sample : jd91339-11
Misc : op55800,ect375,16.9,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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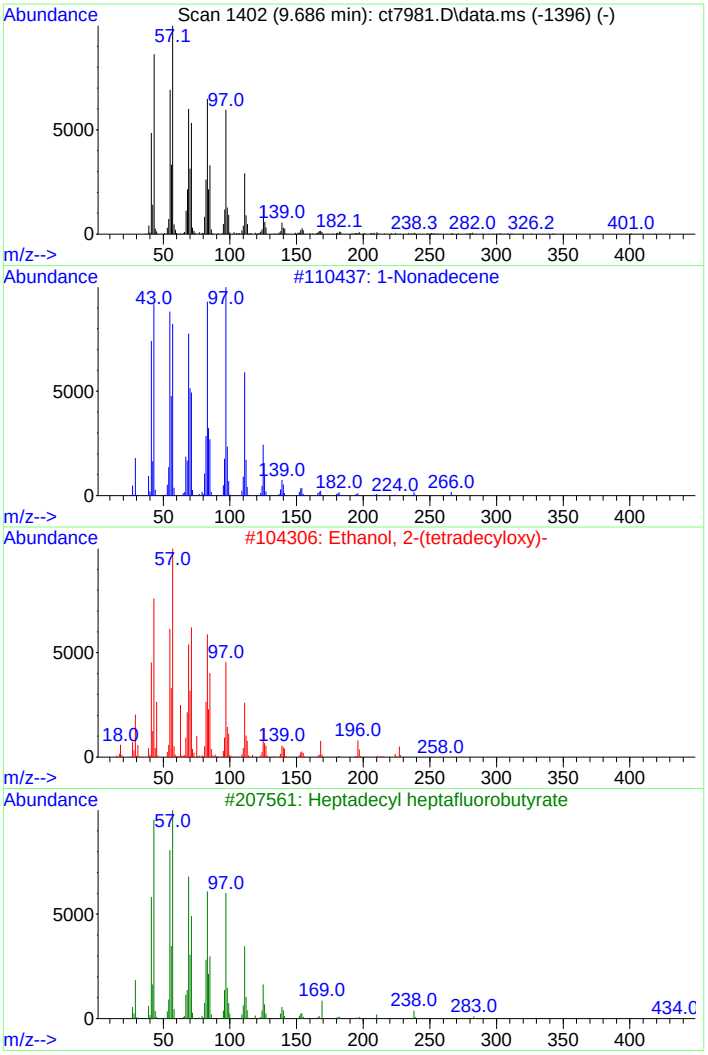
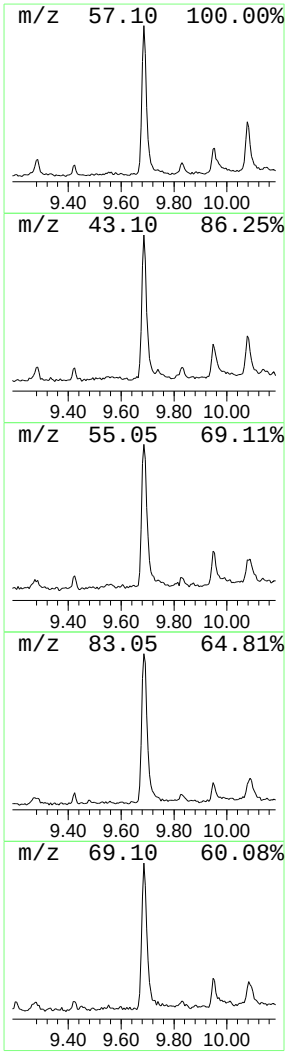
Peak Number 1 1-Nonadecene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.686	8.86 ppm	725358	Chrysene-d12	9.798

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Nonadecene	266	C19H38	018435-45-5	96
2	Ethanol, 2-(tetradecyloxy)-	258	C16H34O2	002136-70-1	95
3	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	1000351-82-9	94
4	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	1000283-04-2	94
5	1-Docosene	308	C22H44	001599-67-3	93





Library Search Compound Report

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Acq On : 03 Jul 2024 03:06 pm
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Sample : jd91339-11
Misc : op55800,ect375,16.9,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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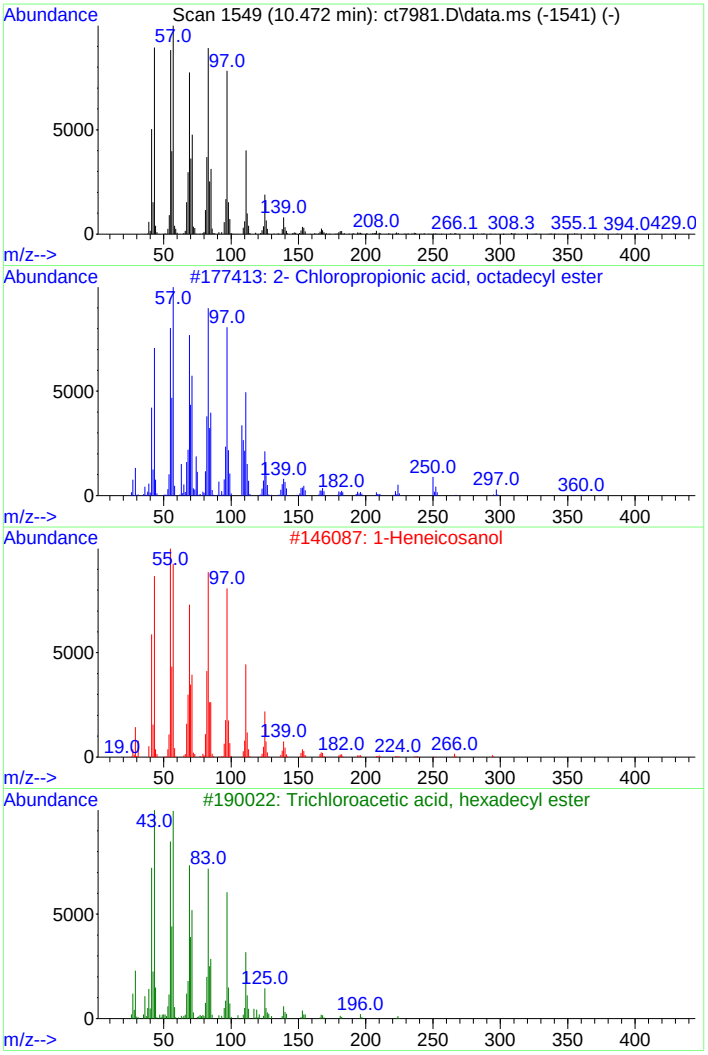
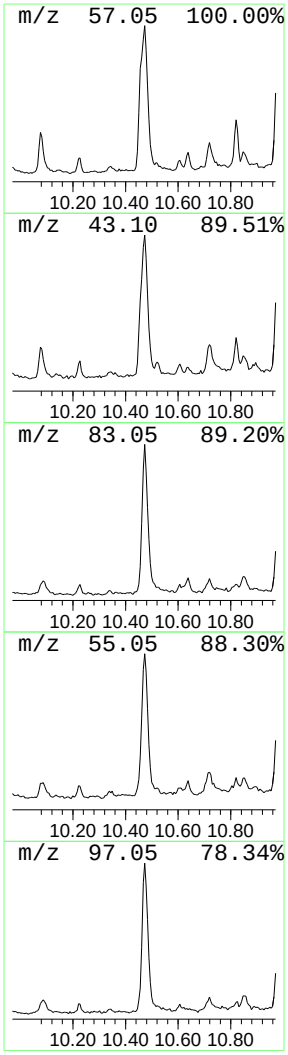
Peak Number 2 Chloropropionic acid, octad... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.472	16.35 ppm	1337830	Chrysene-d12a	9.798

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	96
2	1-Heneicosanol	312	C21H44O	015594-90-8	94
3	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
4	Behenic alcohol	326	C22H46O	000661-19-8	94
5	n-Tetracosanol-1	354	C24H50O	000506-51-4	94





Library Search Compound Report

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Acq On : 03 Jul 2024 03:06 pm
Operator : karimam
Sample : jd91339-11
Misc : op55800,ect375,16.9,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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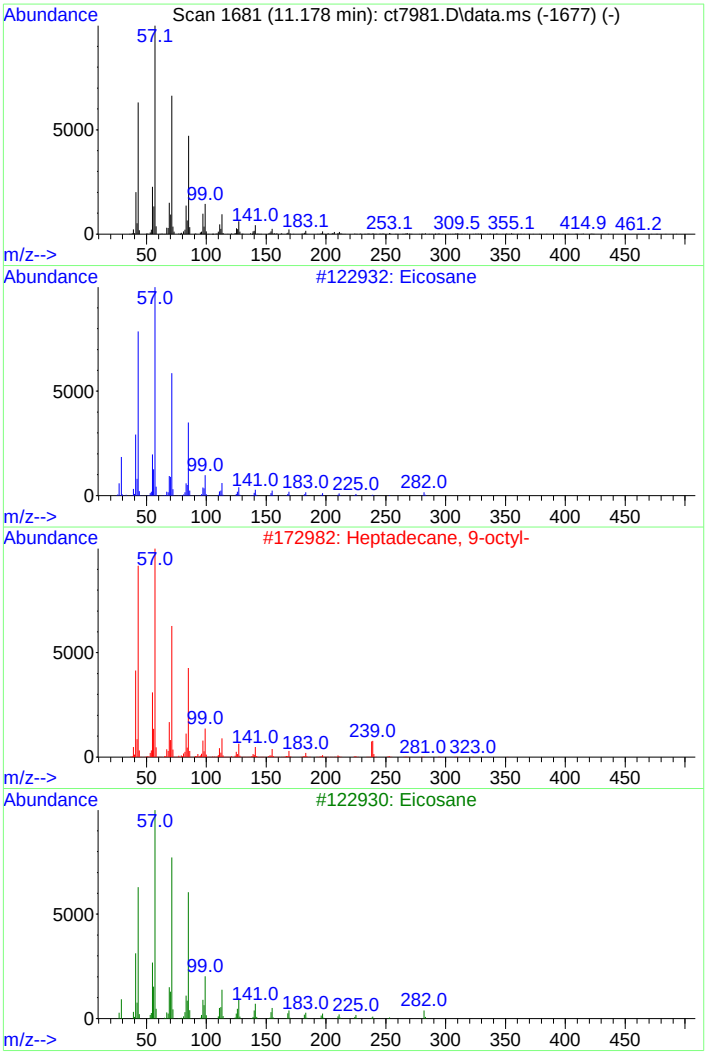
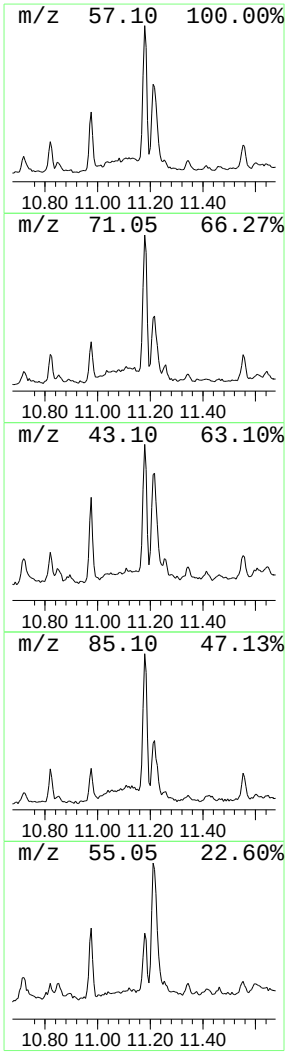
Peak Number 3 Eicosane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.178	5.13 ppm	458023	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	95
2	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	94
3	Eicosane	282	C20H42	000112-95-8	94
4	Octadecane, 2-methyl-	268	C19H40	001560-88-9	93
5	Octacosane	394	C28H58	000630-02-4	91





Library Search Compound Report

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Data File : ct7981.D
Acq On : 03 Jul 2024 03:06 pm
Operator : karimam
Sample : jd91339-11
Misc : op55800,ect375,16.9,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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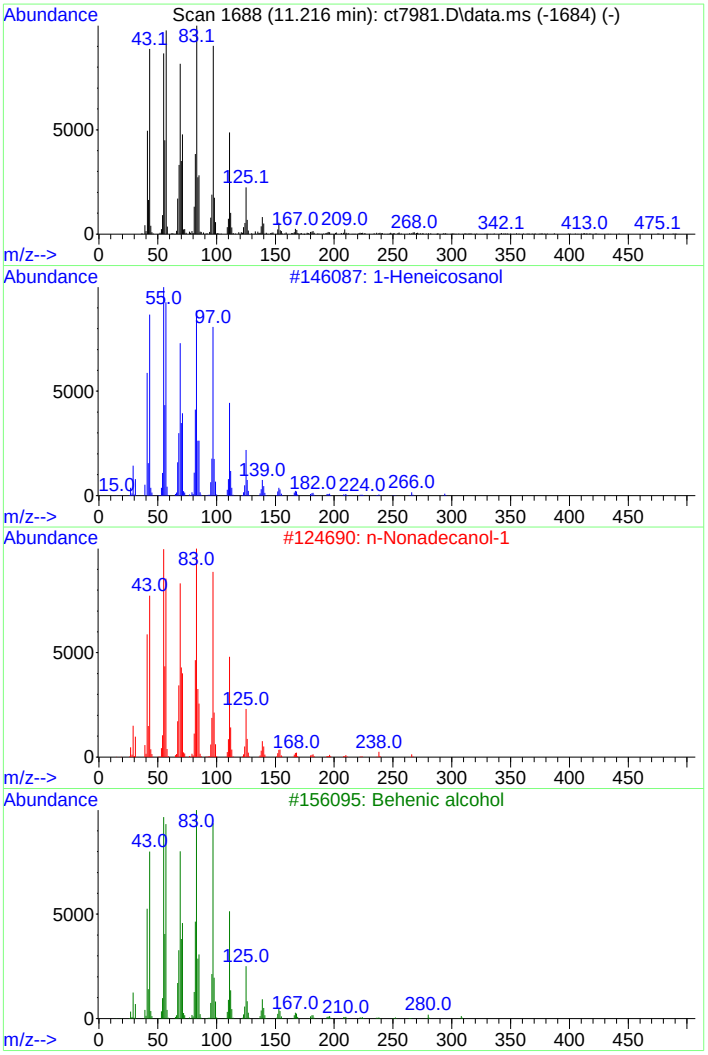
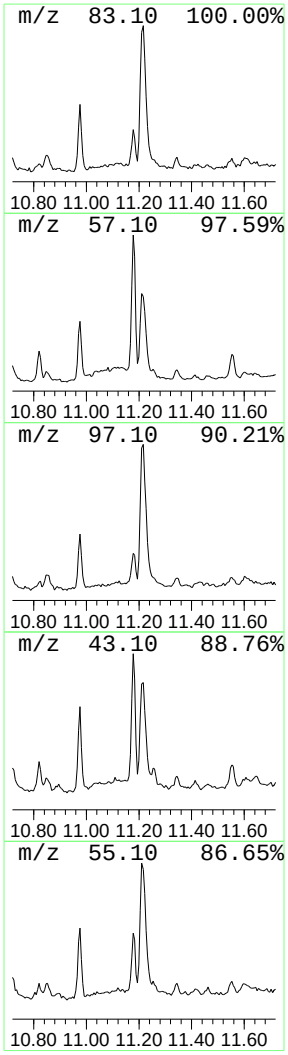
Peak Number 4 Heneicosanol Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.216	8.96 ppm	800043	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	95
2	n-Nonadecanol-1	284	C19H40O	001454-84-8	94
3	Behenic alcohol	326	C22H46O	000661-19-8	94
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
5	1-Octacosanol	410	C28H58O	1000351-79-2	92





Library Search Compound Report

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Data File : ct7981.D
Acq On : 03 Jul 2024 03:06 pm
Operator : karimam
Sample : jd91339-11
Misc : op55800,ect375,16.9,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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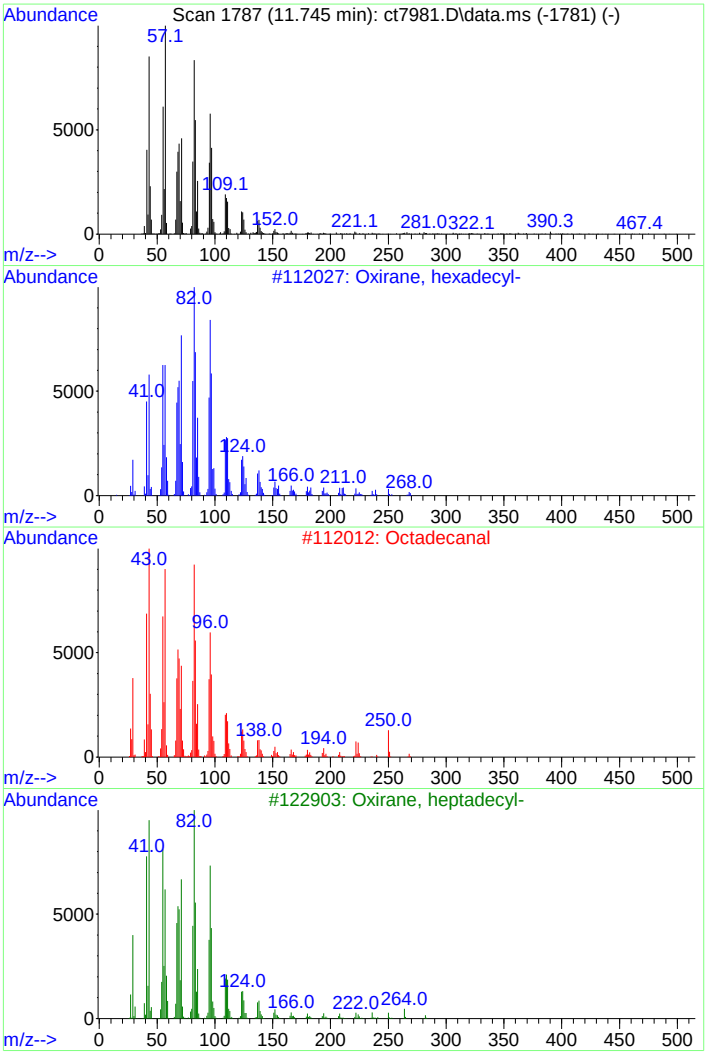
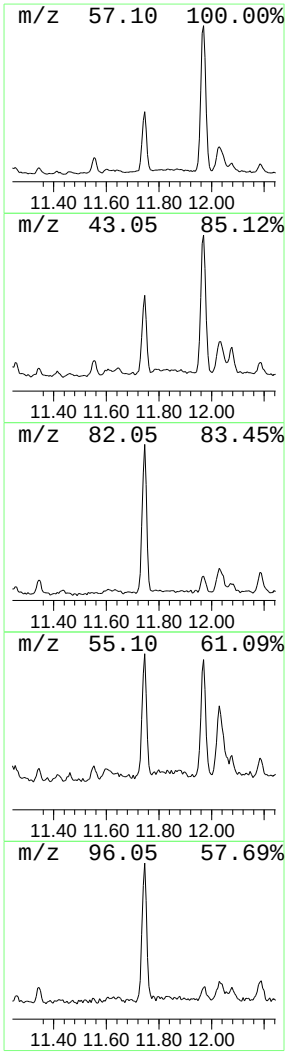
Peak Number 5 Oxirane, hexadecyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.745	8.80 ppm	785453	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
2	Octadecanal	268	C18H36O	000638-66-4	91
3	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	91
4	Octadecanal	268	C18H36O	000638-66-4	91
5	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91





Library Search Compound Report

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Data File : ct7981.D
Acq On : 03 Jul 2024 03:06 pm
Operator : karimam
Sample : jd91339-11
Misc : op55800,ect375,16.9,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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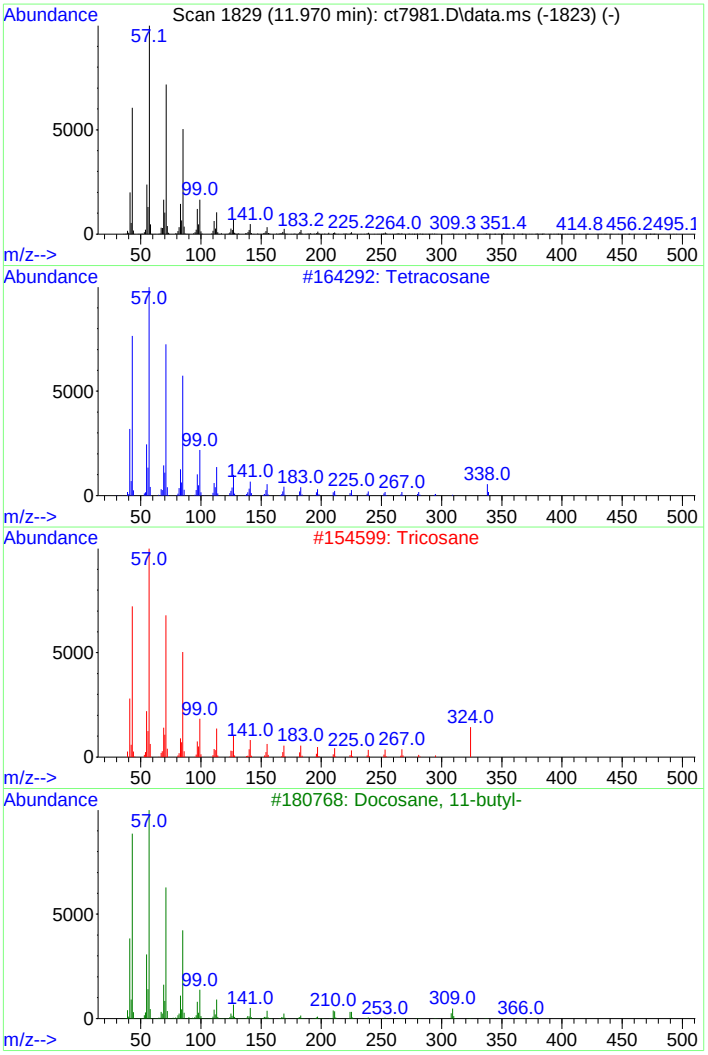
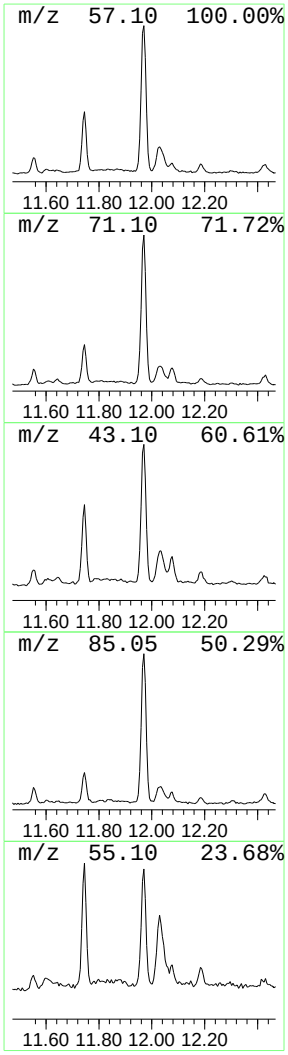
Peak Number 6 alkane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.970	12.21 ppm	1090150	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	96
2	Tricosane	324	C23H48	000638-67-5	94
3	Docosane, 11-butyl-	366	C26H54	013475-76-8	94
4	Octacosane	394	C28H58	000630-02-4	93
5	Heneicosane	296	C21H44	000629-94-7	91





Library Search Compound Report

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Data File : ct7981.D
Acq On : 03 Jul 2024 03:06 pm
Operator : karimam
Sample : jd91339-11
Misc : op55800,ect375,16.9,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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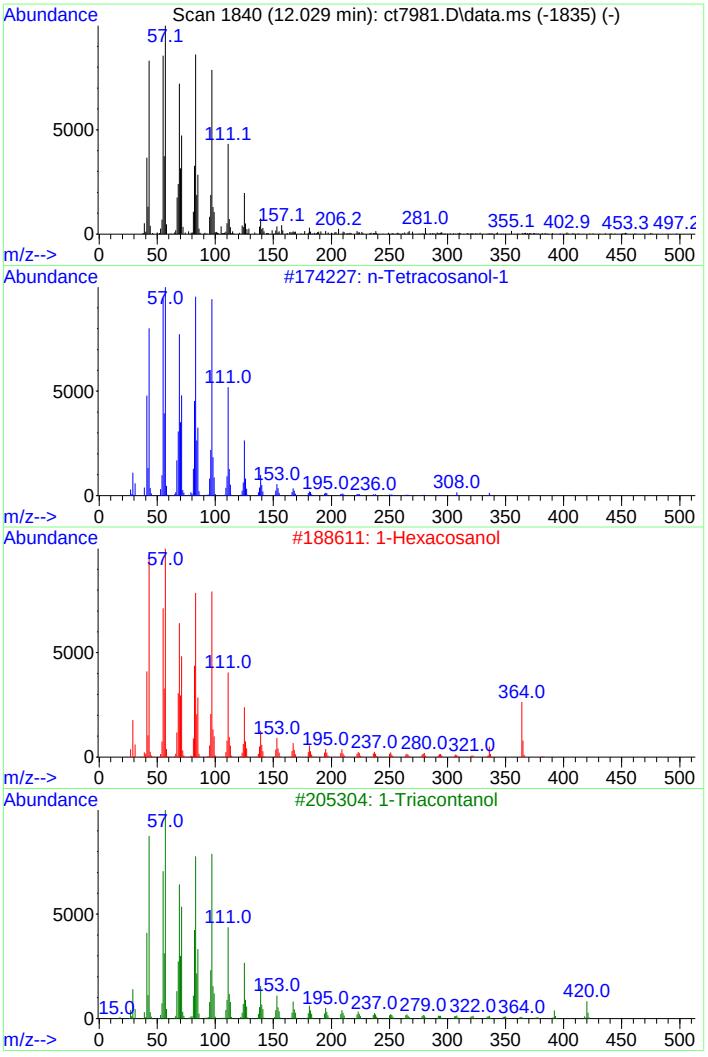
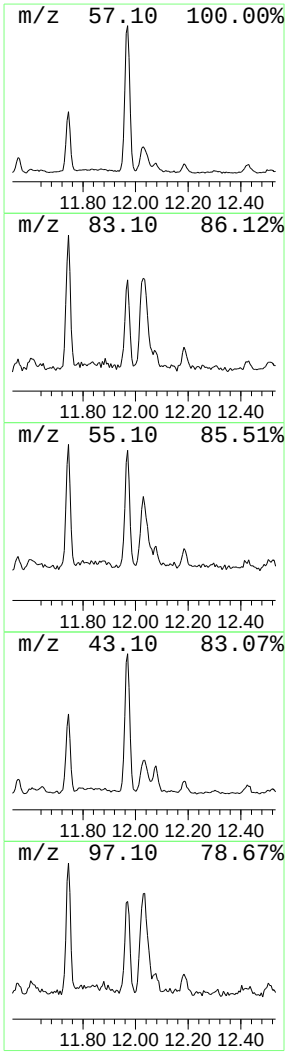
Peak Number 7 n-Tetracosanol Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.029	6.26 ppm	559123	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Tetracosanol-1	354	C24H50O	000506-51-4	93
2	1-Hexacosanol	382	C26H54O	000506-52-5	91
3	1-Triacontanol	438	C30H62O	000593-50-0	91
4	Pentafluoropropionic acid, tetra...	360	C17H29F5O2	006222-06-6	90
5	1-Heptacosanol	396	C27H56O	002004-39-9	87





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Acq On : 03 Jul 2024 03:06 pm
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ALS Vial : 15 Sample Multiplier: 1

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Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
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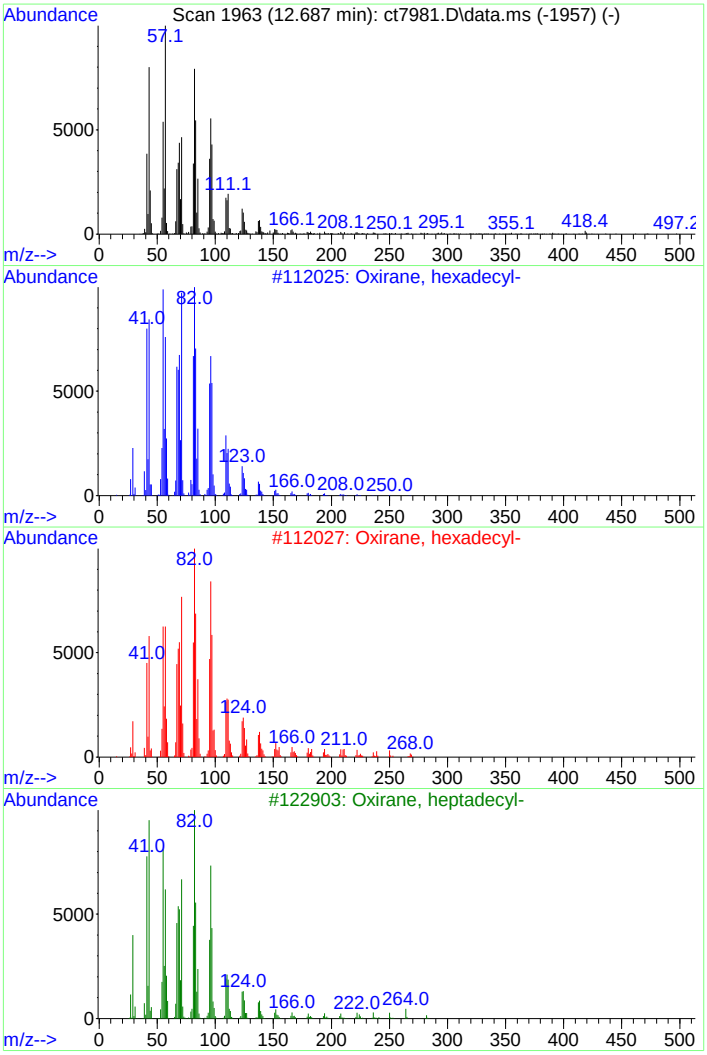
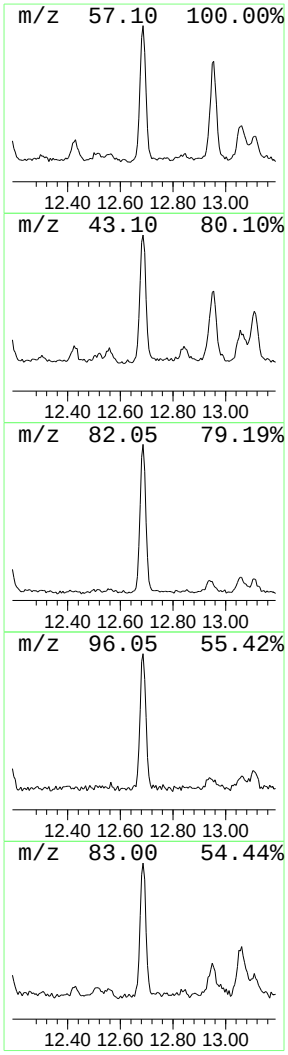
Peak Number 8 Oxirane, hexadecyl Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.687	10.72 ppm	957574	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	90
3	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	87
4	Tetradecanal	212	C14H28O	000124-25-4	86
5	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	81





Library Search Compound Report

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Data File : ct7981.D
Acq On : 03 Jul 2024 03:06 pm
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Sample : jd91339-11
Misc : op55800,ect375,16.9,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
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TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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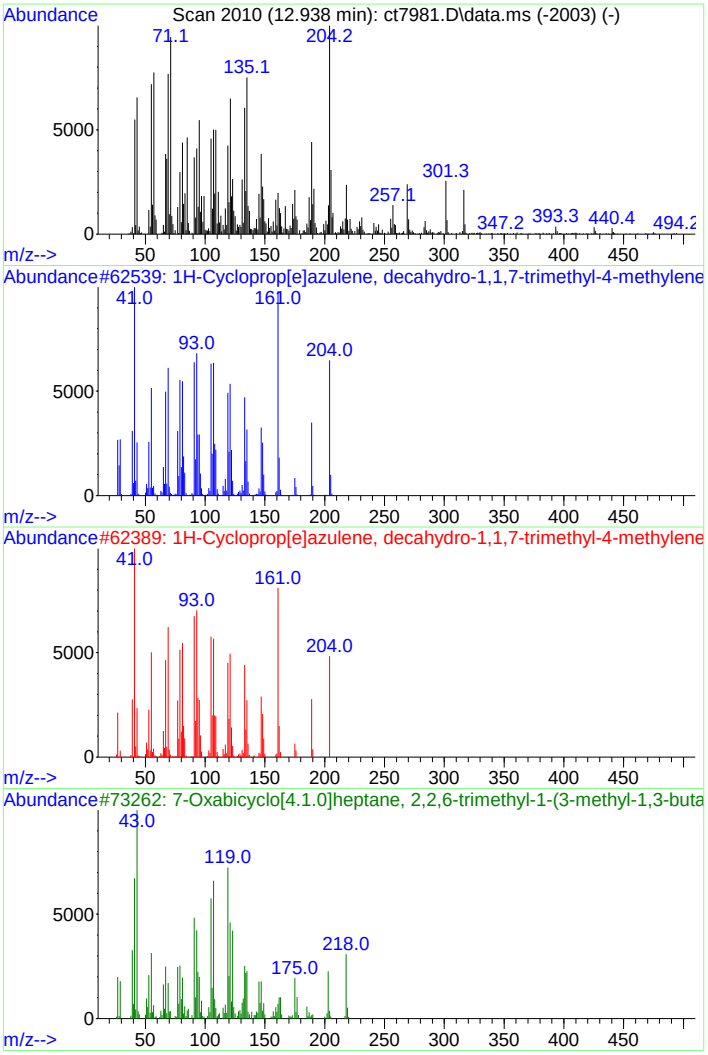
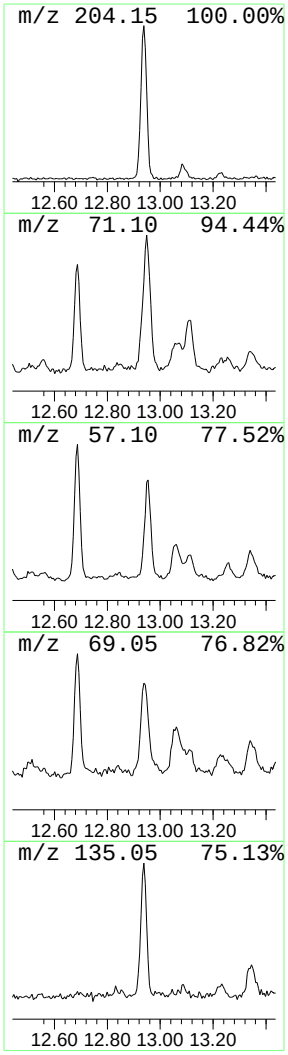
Peak Number 9 unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.938	14.40 ppm	1286040	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cycloprop[e]azulene, decahydr...	204	C15H24	000489-39-4	83
2	1H-Cycloprop[e]azulene, decahydr...	204	C15H24	072747-25-2	62
3	7-Oxabicyclo[4.1.0]heptane, 2,2,...	218	C15H22O	070038-20-9	59
4	2,5,5,8a-Tetramethyl-6,7,8,8a-te...	204	C14H20O	124957-09-1	53
5	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1000140-07-7	53





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Misc : op55800,ect375,16.9,,,1,1
ALS Vial : 15 Sample Multiplier: 1

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TIC Library : C:\Database\NIST08.L
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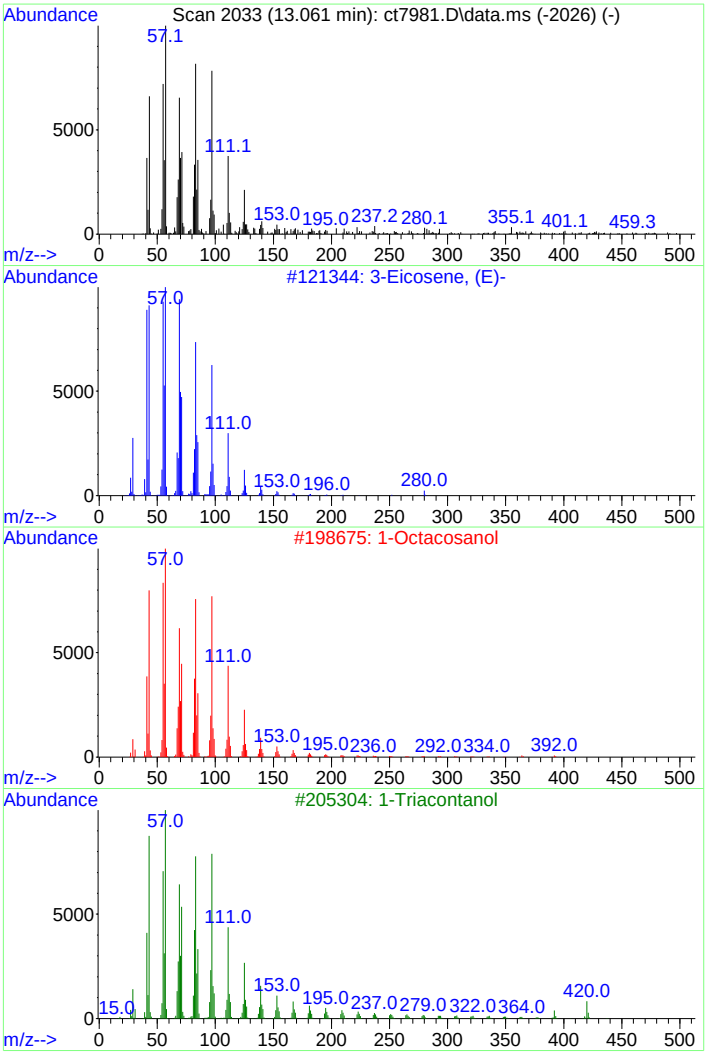
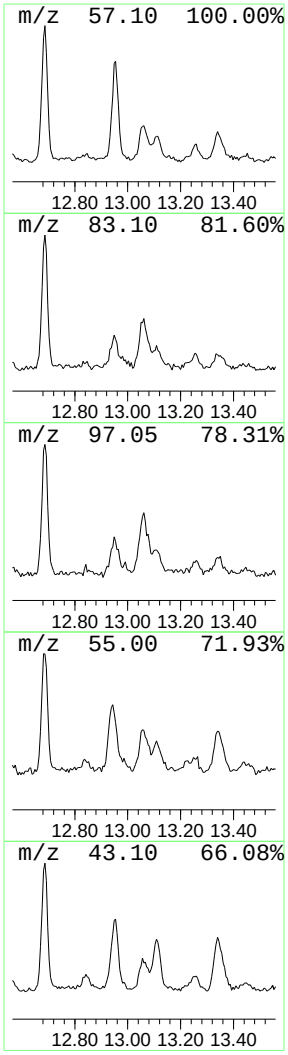
Peak Number 10 unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.061	4.24 ppm	378708	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Eicosene, (E)-	280	C20H40	074685-33-9	95
2	1-Octacosanol	410	C28H58O	1000351-79-2	94
3	1-Triacontanol	438	C30H62O	000593-50-0	91
4	1-Hexacosanol	382	C26H54O	000506-52-5	91
5	1-Heptacosanol	396	C27H56O	002004-39-9	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7981.D
Acq On : 03 Jul 2024 03:06 pm
Operator : karimam
Sample : jd91339-11
Misc : op55800,ect375,16.9,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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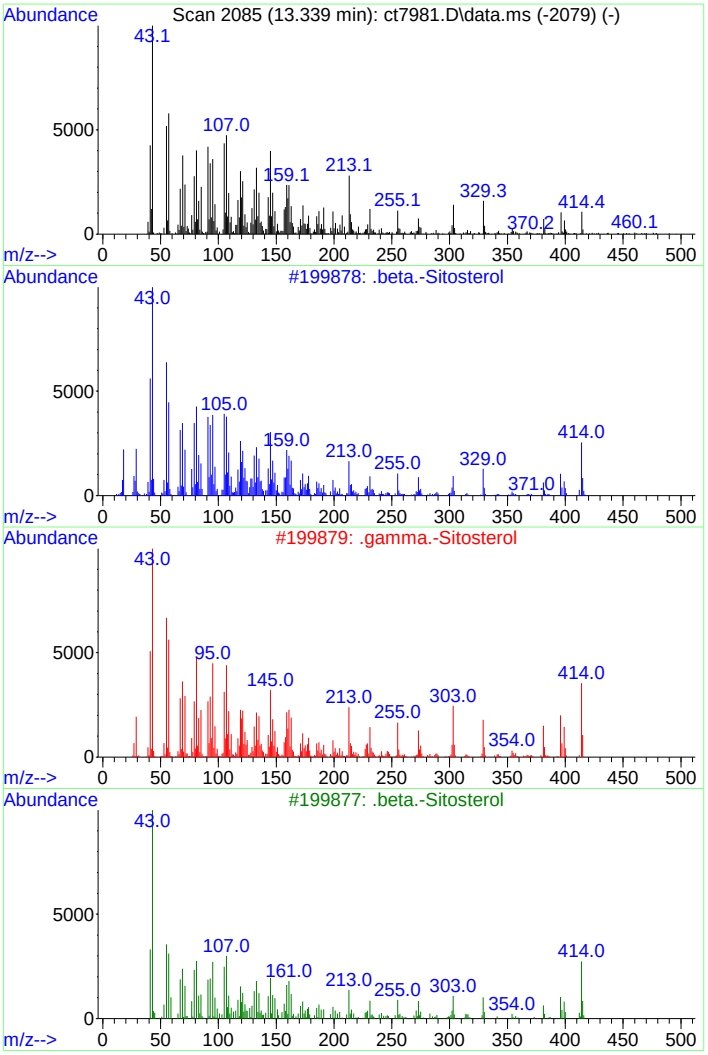
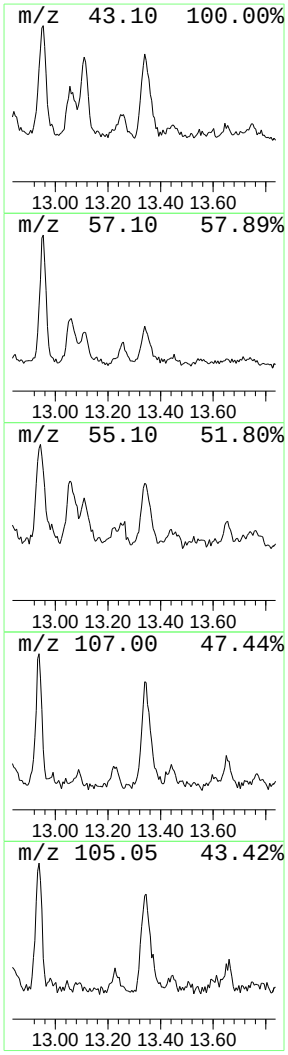
Peak Number 11 .beta.-Sitosterol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.339	9.23 ppm	824472	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Sitosterol	414	C29H50O	000083-46-5	94
2	.gamma.-Sitosterol	414	C29H50O	000083-47-6	78
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	68
4	Isocholesteryl methyl ether	400	C28H48O	029944-53-4	52
5	.gamma.-Sitosterol	414	C29H50O	000083-47-6	30





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7981.D
Acq On : 03 Jul 2024 03:06 pm
Operator : karimam
Sample : jd91339-11
Misc : op55800,ect375,16.9,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

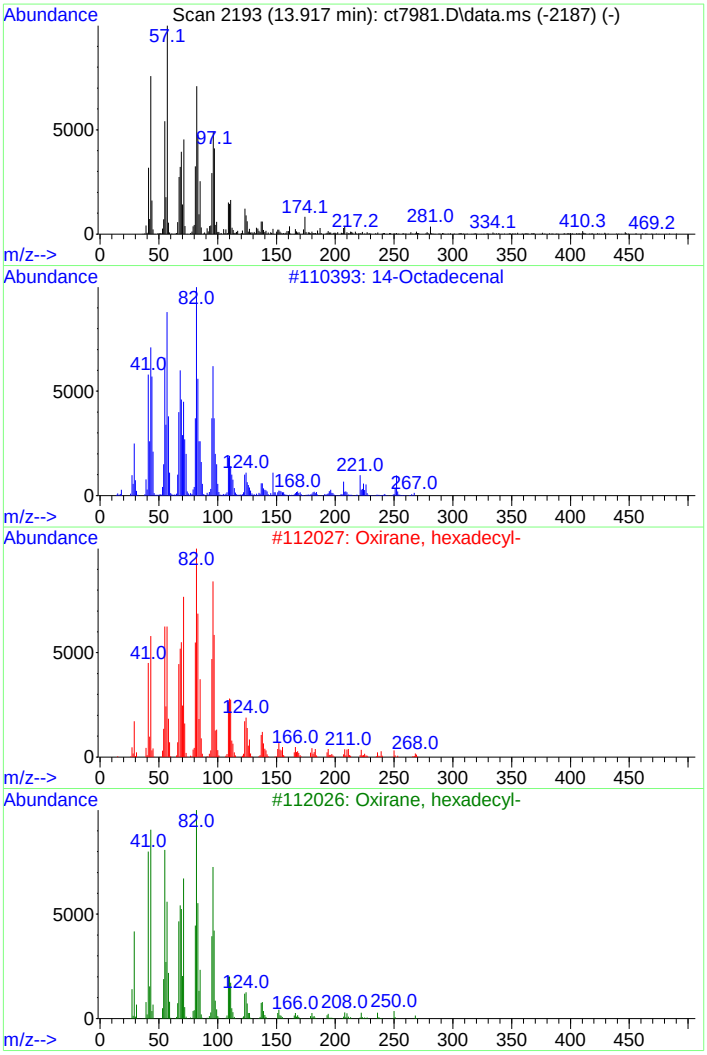
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

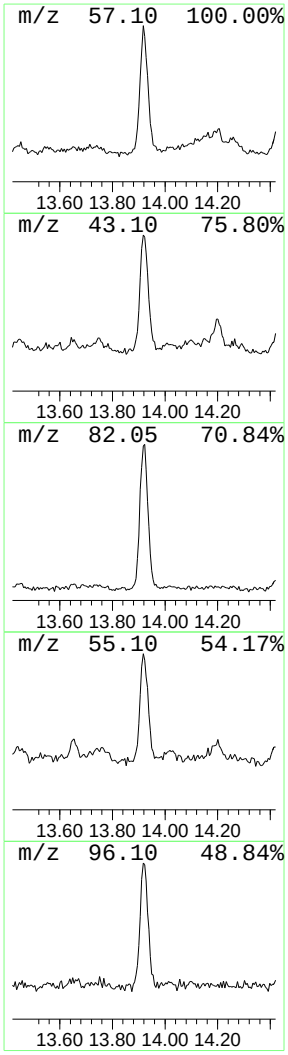
****

Peak Number 12 Oxirane, hexadecyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.917	9.71 ppm	866620	Perylene-d12	11.440

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	14-Octadecenal	266	C18H34O	056554-89-3	91
2	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
3	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	90
4	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	90
5	Tetradecanal	212	C14H28O	000124-25-4	83





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7981.D
Acq On : 03 Jul 2024 03:06 pm
Operator : karimam
Sample : jd91339-11
Misc : op55800,ect375,16.9,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1-Nonadecene	9.686	8.9	ppm	725358	9	9.798	3273820	40.0
Chloropropionic...	10.472	16.4	ppm	1337830	10	9.798	3273820	40.0
Eicosane	11.178	5.1	ppm	458023	11	11.440	3571840	40.0
Heneicosanol	11.216	9.0	ppm	800043	11	11.440	3571840	40.0
Oxirane, hexade...	11.745	8.8	ppm	785453	11	11.440	3571840	40.0
alkane	11.970	12.2	ppm	1090150	11	11.440	3571840	40.0
n-Tetracosanol	12.029	6.3	ppm	559123	11	11.440	3571840	40.0
Oxirane, hexadecyl	12.687	10.7	ppm	957574	11	11.440	3571840	40.0
unknown	12.938	14.4	ppm	1286040	11	11.440	3571840	40.0
unknown	13.061	4.2	ppm	378708	11	11.440	3571840	40.0
.beta.-Sitosterol	13.339	9.2	ppm	824472	11	11.440	3571840	40.0
Oxirane, hexade...	13.917	9.7	ppm	866620	11	11.440	3571840	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\danielas\EP7514\
Data File : p160665.d
Acq On : 2 Jul 2024 4:54 pm
Operator : karimam
Sample : jd91339-12 Inst : GCMSP
Misc : op55776,ep7514,1000,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 02 21:52:26 2024
Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\MP7505 .M
Quant Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um
QLast Update : Tue Jul 02 19:12:59 2024
Response via : Initial Calibration

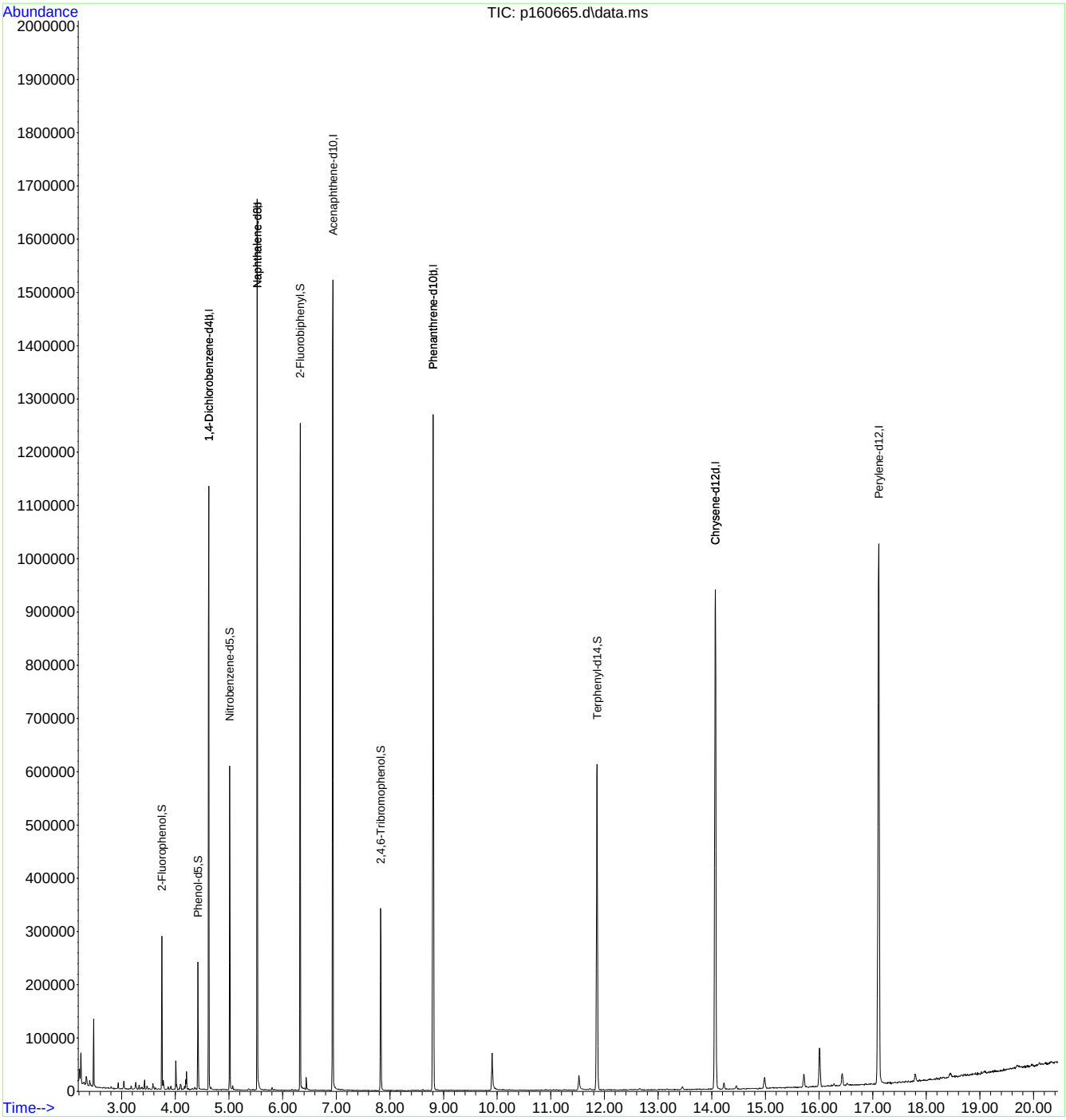
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.623	152	137364	40.00	ppm	0.00
24) Naphthalene-d8	5.526	136	550692	40.00	ppm	0.00
46) Acenaphthene-d10	6.936	164	317478	40.00	ppm	0.00
69) Phenanthrene-d10	8.806	188	596885	40.00	ppm	0.00
83) Chrysene-d12	14.068	240	540507	40.00	ppm	-0.01
92) Perylene-d12	17.113	264	608261	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.623	152	137364	40.00	ppm	0.00
104) Phenanthrene-d10b	8.806	188	596885	40.00	ppm	0.00
106) Naphthalene-d8b	5.526	136	550692	40.00	ppm	# 0.00
108) Chrysene-d12d	14.068	240	540507	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.747	112	62141	15.47	ppm	0.00
Spiked Amount 50.000			Recovery = 30.94%			
8) Phenol-d5	4.420	99	64024	13.66	ppm	0.02
Spiked Amount 50.000			Recovery = 27.32%			
25) Nitrobenzene-d5	5.013	82	125812	32.71	ppm	0.00
Spiked Amount 50.000			Recovery = 65.42%			
51) 2-Fluorobiphenyl	6.327	172	315155	30.05	ppm	0.00
Spiked Amount 50.000			Recovery = 60.10%			
73) 2,4,6-Tribromophenol	7.829	330	39418	28.64	ppm	0.00
Spiked Amount 50.000			Recovery = 57.28%			
86) Terphenyl-d14	11.862	244	294361	19.20	ppm	0.00
Spiked Amount 50.000			Recovery = 38.40%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\danielas\EP7514\
Data File : p160665.d
Acq On : 2 Jul 2024 4:54 pm
Operator : karimam
Sample : jd91339-12 Inst : GCMSP
Misc : op55776,ep7514,1000,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 02 21:52:26 2024
Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\MP7505 .M
Quant Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um
QLast Update : Tue Jul 02 19:12:59 2024
Response via : Initial Calibration



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\danielas\EP7514\
Data File : p160665.d
Acq On : 2 Jul 2024 4:54 pm
Operator : karimam
Sample : jd91339-12
Misc : op55776,ep7514,1000,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\danielas\METHODS\MP7505 .M
Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um

Signal : TIC: p160665.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.214	3	6	8	rBV2	22567	21290	1.18%	0.177%
2	2.241	8	11	15	rVB2	58422	48372	2.68%	0.402%
3	2.337	26	29	38	rVB4	17779	24644	1.36%	0.205%
4	2.401	38	41	49	rVV2	11873	14865	0.82%	0.123%
5	2.476	49	55	65	rVB	128908	90408	5.00%	0.751%
6	2.839	121	123	126	rVB3	2922	3293	0.18%	0.027%
7	2.935	135	141	149	rVB	12000	10458	0.58%	0.087%
8	3.042	154	161	165	rBV4	15271	14637	0.81%	0.122%
9	3.175	182	186	191	rVB4	6277	5197	0.29%	0.043%
10	3.261	195	202	209	rVB2	14032	18217	1.01%	0.151%
11	3.325	209	214	217	rBV3	8838	8001	0.44%	0.066%
12	3.357	217	220	222	rBV3	3250	3190	0.18%	0.026%
13	3.378	222	224	227	rVV4	4122	3272	0.18%	0.027%
14	3.427	227	233	236	rVB	18009	14292	0.79%	0.119%
15	3.475	236	242	246	rBV6	6867	6826	0.38%	0.057%
16	3.581	256	262	269	rBV2	11615	13758	0.76%	0.114%
17	3.630	269	271	277	rVB4	3545	3286	0.18%	0.027%
18	3.747	288	293	297	rBV	288154	196162	10.86%	1.629%
19	3.774	297	298	305	rVB2	17242	13270	0.73%	0.110%
20	3.865	312	315	320	rVB2	5477	4167	0.23%	0.035%
21	3.918	320	325	330	rVB3	6233	5692	0.31%	0.047%
22	4.009	339	342	349	rVB2	54399	41705	2.31%	0.346%
23	4.094	352	358	362	rVB3	10773	14262	0.79%	0.118%
24	4.169	368	372	374	rBV4	6539	5865	0.32%	0.049%
25	4.207	374	379	384	rVB2	33859	35661	1.97%	0.296%
26	4.244	384	386	391	rVB4	3676	3761	0.21%	0.031%
27	4.313	395	399	405	rBV4	2670	3310	0.18%	0.027%
28	4.361	405	408	412	rVV3	4178	3606	0.20%	0.030%
29	4.420	414	419	431	rBV	239403	173357	9.59%	1.439%
30	4.623	450	457	463	rBV	1134035	773665	42.81%	6.423%
31	4.666	463	465	470	rVV4	5271	5787	0.32%	0.048%
32	4.741	474	479	483	rVB5	1685	3204	0.18%	0.027%
33	4.885	501	506	510	rBV4	2291	3513	0.19%	0.029%
34	5.013	526	530	537	rBV	608221	376326	20.82%	3.124%
35	5.067	537	540	545	rVB2	7889	7498	0.41%	0.062%
36	5.366	592	596	605	rBV6	2873	6150	0.34%	0.051%
37	5.526	621	626	641	rBV	1672960	1073439	59.40%	8.912%
38	5.804	675	678	682	rVB4	5109	4929	0.27%	0.041%
39	6.066	720	727	730	rBV2	1811	3102	0.17%	0.026%
40	6.327	768	776	786	rBV	1253340	885931	49.02%	7.355%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\danielas\EP7514\
Data File : p160665.d
Acq On : 2 Jul 2024 4:54 pm
Operator : karimam
Sample : jd91339-12
Misc : op55776,ep7514,1000,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\danielas\METHODS\MP7505 .M
Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um

41	6.440	795	797	807	rVB	24144	19102	1.06%	0.159%
42	6.936	884	890	905	rBV	1521810	1337372	74.01%	11.103%
43	7.102	920	921	930	rVB5	1591	3193	0.18%	0.027%
44	7.829	1050	1057	1069	rBV	342270	327614	18.13%	2.720%
45	8.619	1198	1205	1209	rVB3	2906	4531	0.25%	0.038%
46	8.806	1231	1240	1250	rBV	1270113	1439958	79.68%	11.955%
47	9.127	1295	1300	1306	rBV4	1663	3612	0.20%	0.030%
48	9.907	1436	1446	1455	rBV3	70592	107569	5.95%	0.893%
49	10.906	1624	1633	1639	rVB5	1807	3565	0.20%	0.030%
50	11.109	1668	1671	1677	rVB5	2290	3112	0.17%	0.026%
51	11.525	1741	1749	1762	rBV3	27732	52509	2.91%	0.436%
52	11.723	1783	1786	1794	rVB5	2654	4226	0.23%	0.035%
53	11.862	1804	1812	1822	rBV	612199	846451	46.84%	7.028%
54	11.974	1828	1833	1837	rBV5	2178	4499	0.25%	0.037%
55	12.177	1867	1871	1876	rVB4	1809	3202	0.18%	0.027%
56	12.658	1952	1961	1968	rVB6	2666	6673	0.37%	0.055%
57	13.011	2018	2027	2030	rBV6	2009	3504	0.19%	0.029%
58	13.454	2099	2110	2116	rBV6	6537	13387	0.74%	0.111%
59	14.068	2213	2225	2240	rBV2	938651	1529771	84.65%	12.701%
60	14.229	2248	2255	2262	rVB3	12106	19451	1.08%	0.161%
61	14.458	2291	2298	2302	rVB6	6562	10605	0.59%	0.088%
62	14.987	2390	2397	2404	rVB2	21001	38303	2.12%	0.318%
63	15.634	2512	2518	2520	rBV7	1977	3607	0.20%	0.030%
64	15.719	2525	2534	2540	rVV2	25627	43518	2.41%	0.361%
65	15.837	2550	2556	2558	rBV6	2440	3443	0.19%	0.029%
66	16.008	2579	2588	2598	rVB2	73123	127921	7.08%	1.062%
67	16.280	2632	2639	2645	rVB8	5461	8839	0.49%	0.073%
68	16.328	2645	2648	2653	rBV7	2188	3292	0.18%	0.027%
69	16.435	2658	2668	2675	rBV4	23410	44948	2.49%	0.373%
70	16.520	2679	2684	2691	rBV9	4915	9052	0.50%	0.075%
71	16.868	2745	2749	2751	rBV5	3636	4813	0.27%	0.040%
72	17.028	2774	2779	2781	rVB4	3571	3752	0.21%	0.031%
73	17.113	2781	2795	2814	rBV2	1016567	1807109	100.00%	15.003%
74	17.284	2826	2827	2831	rBV4	3699	3238	0.18%	0.027%
75	17.418	2847	2852	2856	rBV8	2420	3782	0.21%	0.031%
76	17.503	2864	2868	2873	rVB7	2898	4446	0.25%	0.037%
77	17.557	2873	2878	2880	rBV6	2927	4028	0.22%	0.033%
78	17.605	2884	2887	2895	rVB10	3208	5618	0.31%	0.047%
79	17.664	2895	2898	2904	rBV8	3524	4518	0.25%	0.038%
80	17.792	2917	2922	2931	rBV8	14822	27930	1.55%	0.232%
81	17.872	2933	2937	2940	rBV6	4242	6005	0.33%	0.050%
82	18.038	2961	2968	2970	rBV7	2537	4315	0.24%	0.036%
83	18.198	2994	2998	2999	rBV4	3761	4830	0.27%	0.040%
84	18.262	3007	3010	3012	rBV3	4141	3735	0.21%	0.031%
85	18.454	3033	3046	3052	rBV3	10157	29854	1.65%	0.248%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\danielas\EP7514\
Data File : p160665.d
Acq On : 2 Jul 2024 4:54 pm
Operator : karimam
Sample : jd91339-12
Misc : op55776,ep7514,1000,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\danielas\METHODS\MP7505 .M
Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um

86	18.550	3061	3064	3065	rBV3	3380	3250	0.18%	0.027%
87	18.566	3065	3067	3071	rVB5	3399	3436	0.19%	0.029%
88	18.609	3071	3075	3078	rBV6	3043	4711	0.26%	0.039%
89	18.657	3078	3084	3089	rBV9	3329	7320	0.41%	0.061%
90	18.700	3089	3092	3095	rBV5	4219	4923	0.27%	0.041%
91	18.914	3131	3132	3138	rVB6	5400	5525	0.31%	0.046%
92	18.951	3138	3139	3142	rBV2	5831	4881	0.27%	0.041%
93	18.983	3142	3145	3149	rBV6	3199	4040	0.22%	0.034%
94	19.026	3149	3153	3156	rBV6	5879	5905	0.33%	0.049%
95	19.085	3161	3164	3167	rVV5	5685	7142	0.40%	0.059%
96	19.106	3167	3168	3172	rVB4	5379	3739	0.21%	0.031%
97	19.154	3172	3177	3181	rBV7	4361	7091	0.39%	0.059%
98	19.277	3195	3200	3202	rBV6	5084	5571	0.31%	0.046%
99	19.469	3233	3236	3239	rBV5	3155	4098	0.23%	0.034%
100	19.565	3249	3254	3256	rBV6	3388	3597	0.20%	0.030%
101	19.694	3271	3278	3284	rBV6	7375	21233	1.17%	0.176%
102	19.838	3301	3305	3306	rVB4	4548	4358	0.24%	0.036%
103	19.891	3309	3315	3317	rBV7	5525	8827	0.49%	0.073%
104	19.961	3321	3328	3329	rBV6	6102	7716	0.43%	0.064%
105	19.977	3329	3331	3334	rVB4	3836	4230	0.23%	0.035%
106	20.110	3348	3356	3360	rBV4	6686	12856	0.71%	0.107%
107	20.207	3368	3374	3377	rBV8	3796	5720	0.32%	0.047%
108	20.228	3377	3378	3383	rVB5	4542	3389	0.19%	0.028%
109	20.319	3392	3395	3397	rBV4	4597	4829	0.27%	0.040%
110	20.420	3410	3414	3416	rBV5	2276	3129	0.17%	0.026%

Sum of corrected areas: 12044686

LSC Report - Integrated Chromatogram

```
Data Path : X:\Dayton SVOA GCMS\danielas\EP7514\
Data File : p160665.d
Acq On    :  2 Jul 2024   4:54 pm
Operator  : karimam
Sample    : jd91339-12
Misc      : op55776,ep7514,1000,,,1,1
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\MP7505 .M
Quant Title  : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um

TIC Library   : C:\DATABASE\NIST08.L
TIC Integration Parameters: LSCINT.P
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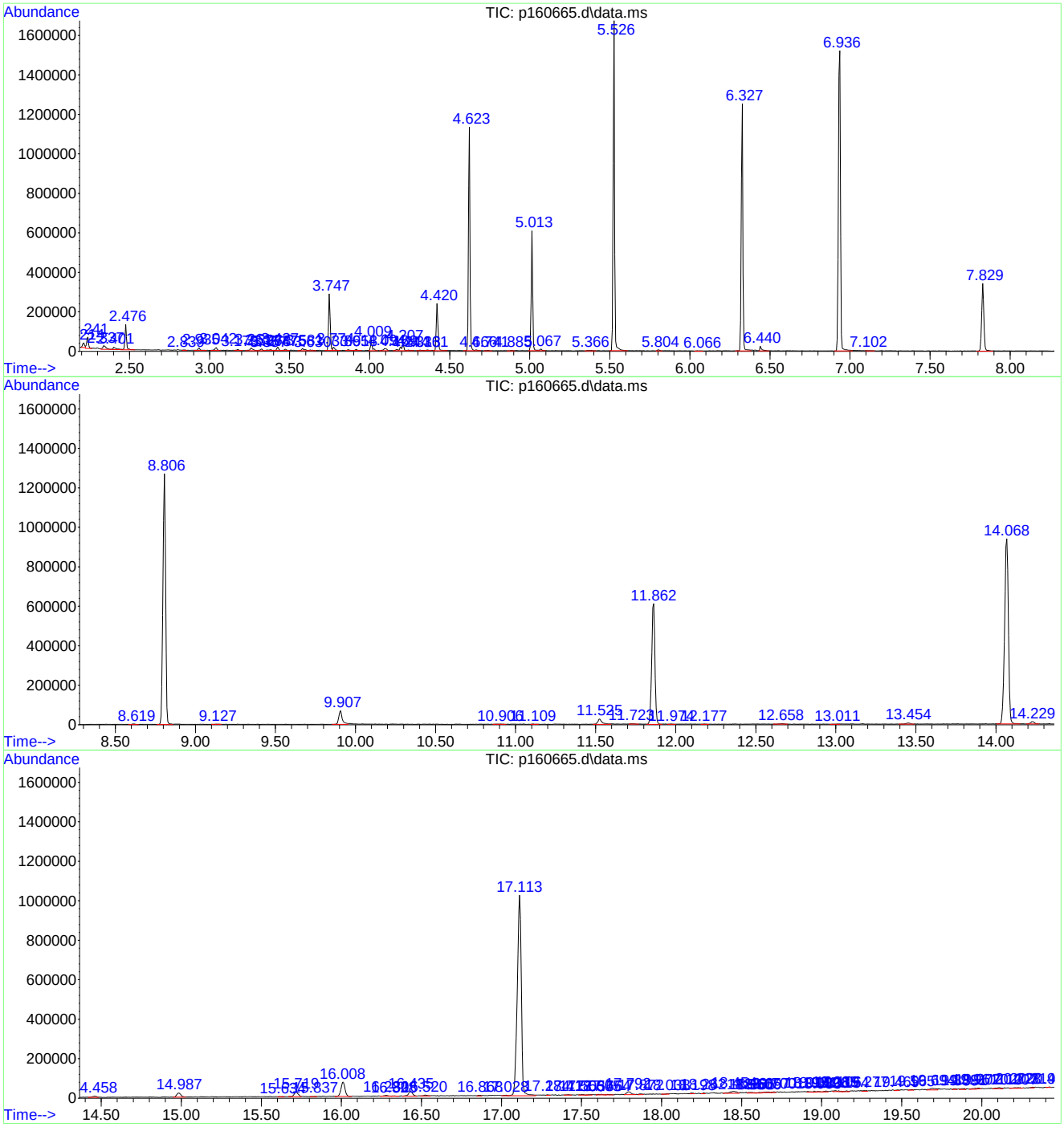


Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\danielas\EP7514\
Data File : p160665.d
Acq On : 2 Jul 2024 4:54 pm
Operator : karimam
Sample : jd91339-12
Misc : op55776,ep7514,1000,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\MP7505 .M
Quant Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um

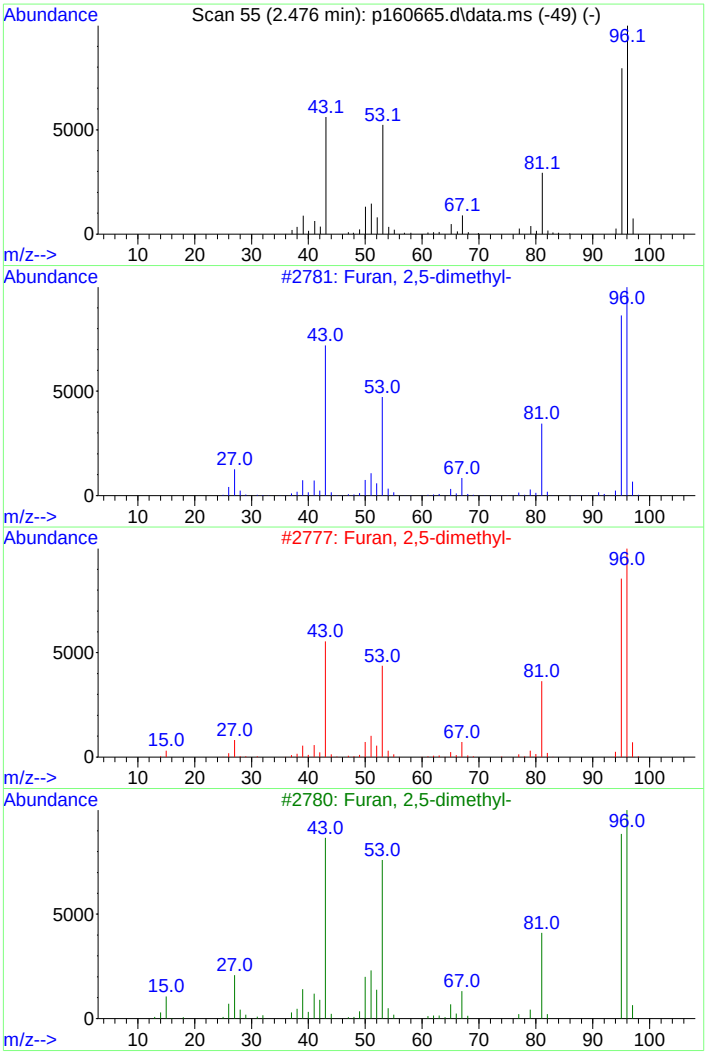
TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: LSCINT.P

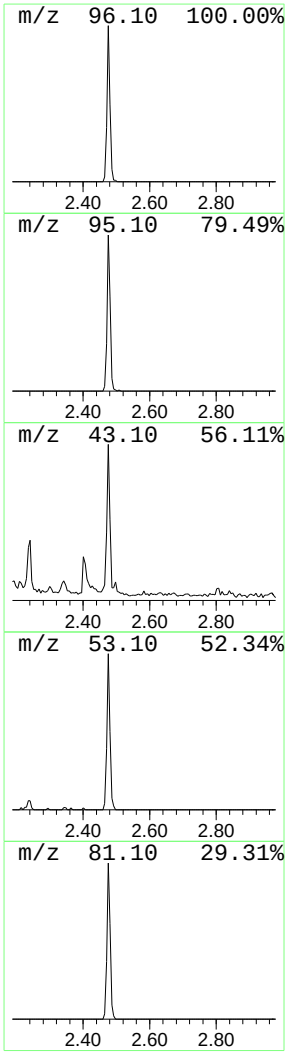
****

Peak Number 1 system artifact Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.476	4.67 ppm	90408	1,4-Dichlorobenzene-d4b	4.623

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	94
2	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	94
3	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	94
4	Ethanone, 1-(methylenecyclopropyl)-	96	C6H8O	062266-35-7	59
5	3-Furaldehyde	96	C5H4O2	000498-60-2	38





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\danielas\EP7514\
Data File : p160665.d
Acq On : 2 Jul 2024 4:54 pm
Operator : karimam
Sample : jd91339-12
Misc : op55776,ep7514,1000,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\danielas\METHODS\MP7505 .M
Quant Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
system artifact	2.476	4.7	ppm	90408	2	4.623	773665	40.0

Manual Integrations APPROVED (compounds with "m" flag)
Jon Kreigmor Mamanta 07/04/24 05:13

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13 Inst : GCMS3E
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 04 09:02:59 2024
Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
QLast Update : Thu Jul 04 08:55:56 2024
Response via : Initial Calibration

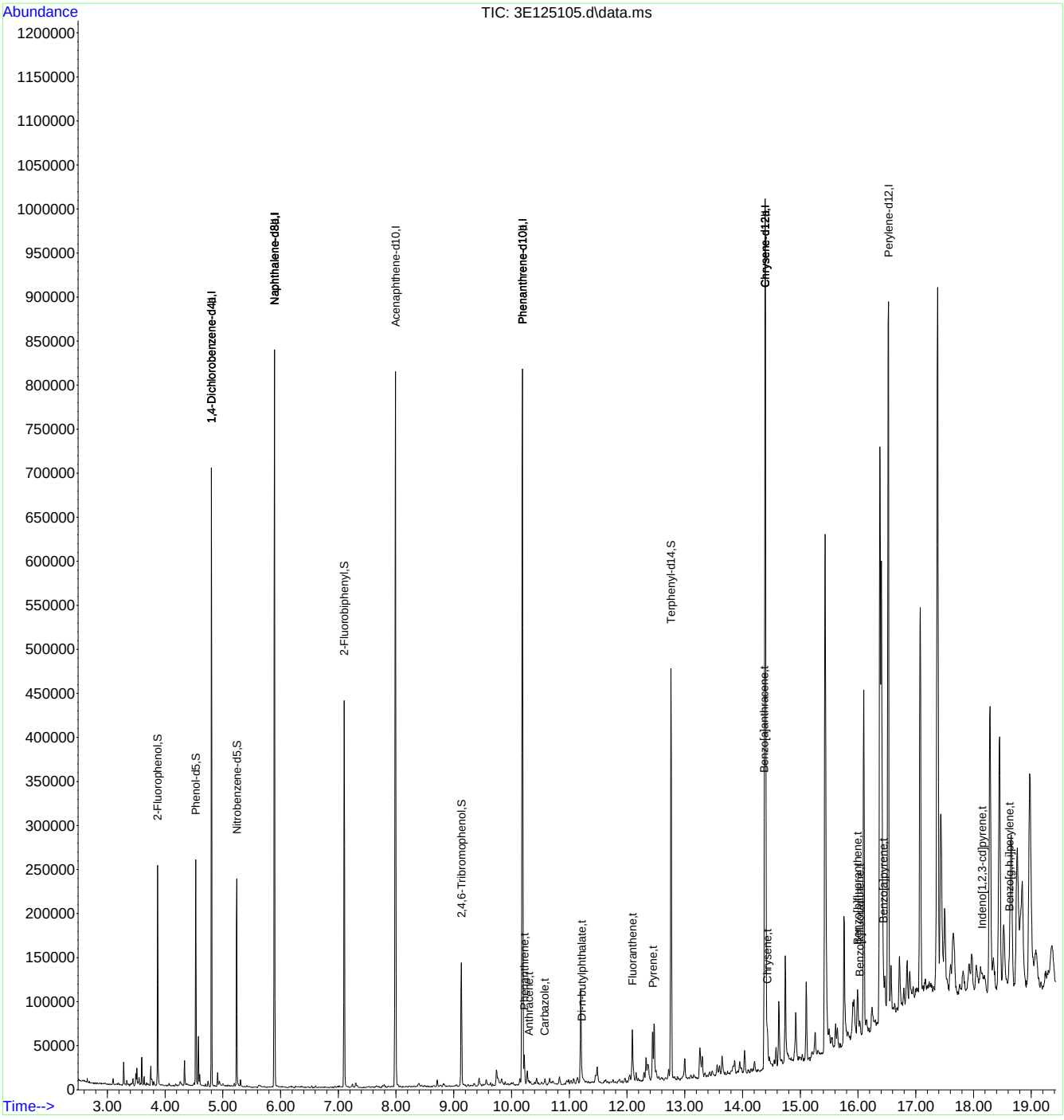
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.803	152	77440	40.00	ppm	0.00
24) Naphthalene-d8	5.894	136	330934	40.00	ppm	0.00
46) Acenaphthene-d10	7.991	164	189468	40.00	ppm	0.00
69) Phenanthrene-d10	10.189	188	359567	40.00	ppm	0.00
84) Chrysene-d12	14.393	240	321439	40.00	ppm	0.00
93) Perylene-d12	16.527	264	353959	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.803	152	77440	40.00	ppm	0.00
105) Phenanthrene-d10a	10.189	188	359567	40.00	ppm	0.00
107) Naphthalene-d8a	5.894	136	330934	40.00	ppm	0.00
109) Phenanthrene-d10b	10.189	188	359567	40.00	ppm	0.00
112) Chrysene-d12a	14.393	240	321439	40.00	ppm	0.00
114) Naphthalene-d8b	5.894	136	330934	40.00	ppm	0.00
117) Naphthalene-d8c	5.894	136	330934	40.00	ppm	0.00
119) Chrysene-d12b	14.393	240	321439	40.00	ppm	0.00
121) 1,4-Dichlorobenzene-d4b	4.803	152	77440	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.872	112	48192	19.55	ppm	0.00
Spiked Amount 50.000			Recovery =	39.10%		
8) Phenol-d5	4.530	99	65476	21.10	ppm	0.00
Spiked Amount 50.000			Recovery =	42.20%		
25) Nitrobenzene-d5	5.241	82	61901	22.49	ppm	0.00
Spiked Amount 50.000			Recovery =	44.98%		
51) 2-Fluorobiphenyl	7.103	172	130415	21.24	ppm	0.00
Spiked Amount 50.000			Recovery =	42.48%		
74) 2,4,6-Tribromophenol	9.130	330	15893	21.08	ppm	-0.01
Spiked Amount 50.000			Recovery =	42.16%		
87) Terphenyl-d14	12.762	244	170008	20.82	ppm	0.00
Spiked Amount 50.000			Recovery =	41.64%		
110) 1-chlorooctadecane	0.000	56	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
78) Phenanthrene	10.221	178	13119	1.4370	ppm	98
79) Anthracene	10.301	178	1682	0.1862	ppm	91
80) Carbazole	10.574	167	1391	0.1621	ppm	96
81) Di-n-butylphthalate	11.216	149	3225	0.3030	ppm	87
82) Fluoranthene	12.093	202	26547	2.8920	ppm	96
86) Pyrene	12.446	202	23630	2.1508	ppm	94
89) Benzo[a]anthracene	14.377	228	9947	0.9751	ppm	97
91) Chrysene	14.430	228	12957	1.3135	ppm	95
95) Benzo[b]fluoranthene	15.992	252	16381m	1.5814	ppm	
96) Benzo[k]fluoranthene	16.030	252	5903	0.5819	ppm	84
97) Benzo[a]pyrene	16.441	252	11081	1.2547	ppm	86
98) Indeno[1,2,3-cd]pyrene	18.148	276	9070	1.0361	ppm	75
102) Benzo[g,h,i]perylene	18.618	276	9116m	1.1044	ppm	

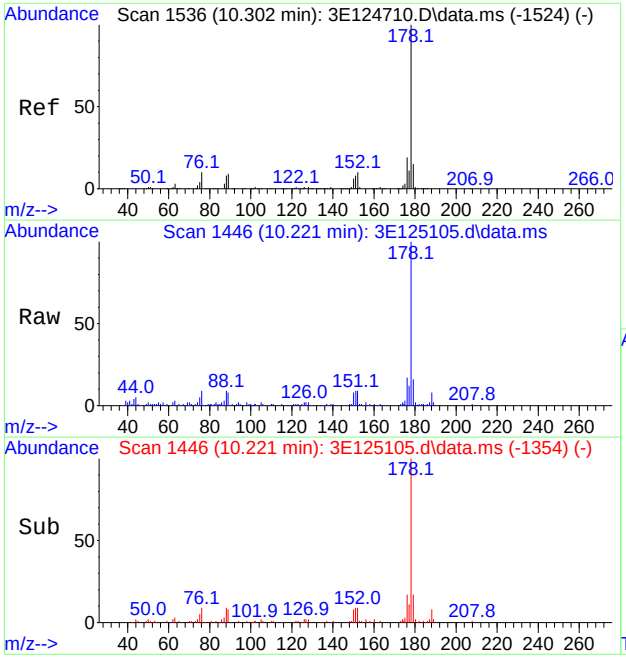
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13 Inst : GCMS3E
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 04 09:02:59 2024
Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
QLast Update : Thu Jul 04 08:55:56 2024
Response via : Initial Calibration

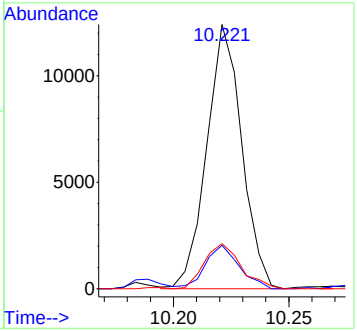


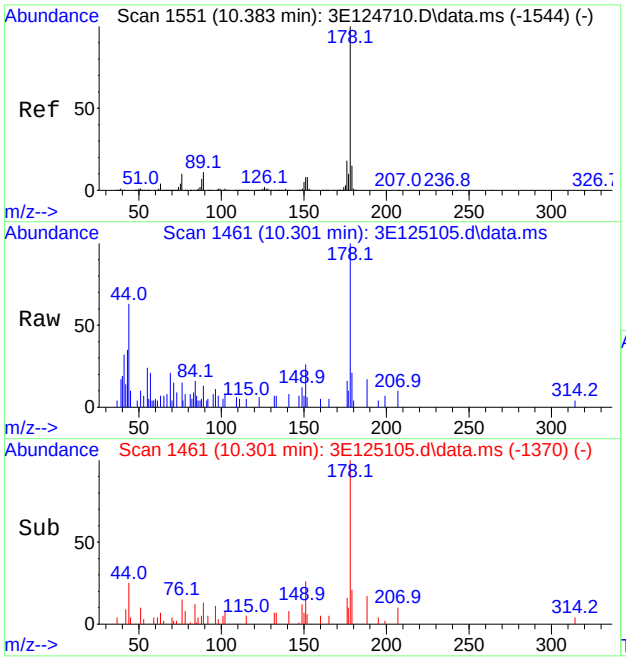


#78
Phenanthrene
Concen: 1.4370 ppm
RT: 10.221 min Scan# 1446
Delta R.T. -0.011 min
Lab File: 3E125105.d
Acq: 3 Jul 2024 2:17 pm

Tgt Ion:178 Resp: 13119

Ion	Ratio	Lower	Upper
178	100		
179	15.5	0.0	45.4
176	16.9	0.0	48.8

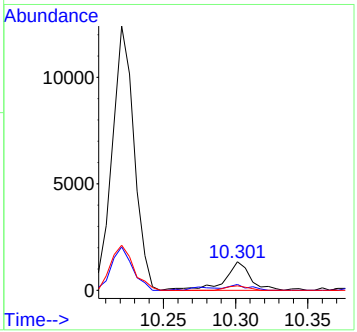


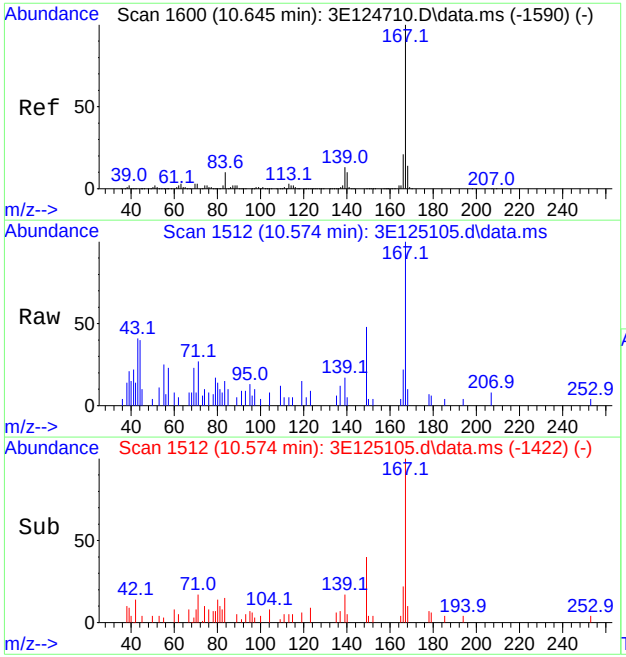


#79
Anthracene
Concen: 0.1862 ppm
RT: 10.301 min Scan# 1461
Delta R.T. -0.011 min
Lab File: 3E125105.d
Acq: 3 Jul 2024 2:17 pm

Tgt Ion:178 Resp: 1682

Ion	Ratio	Lower	Upper
178	100		
179	20.7	0.0	45.4
176	16.2	0.0	48.9

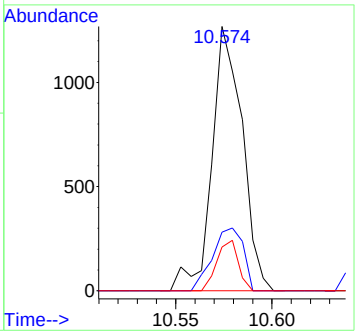


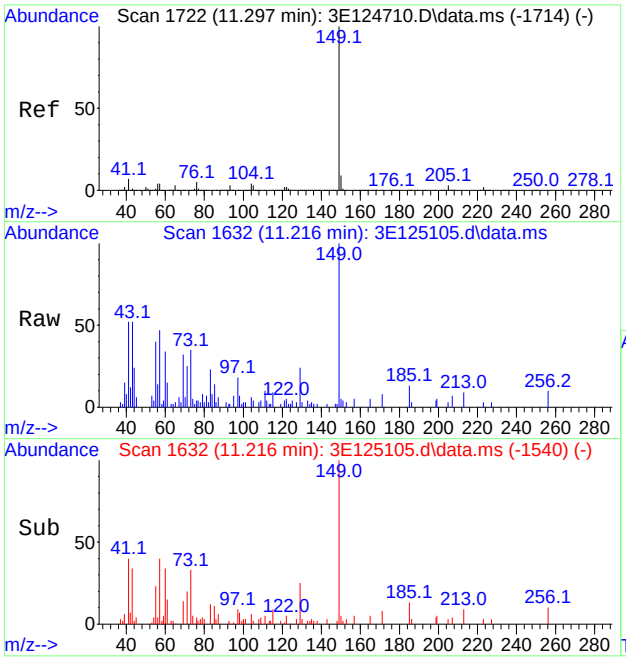


#80
Carbazole
Concen: 0.1621 ppm
RT: 10.574 min Scan# 1512
Delta R.T. -0.016 min
Lab File: 3E125105.d
Acq: 3 Jul 2024 2:17 pm

Tgt Ion:167 Resp: 1391

Ion	Ratio	Lower	Upper
167	100		
166	22.1	0.0	52.9
139	16.5	0.0	42.8

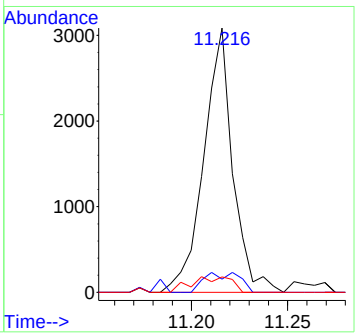


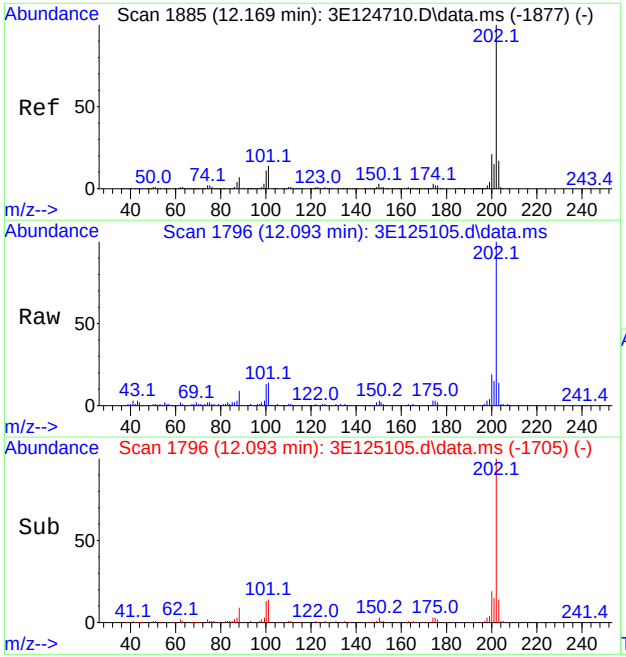


#81
Di-n-butylphthalate
Concen: 0.3030 ppm
RT: 11.216 min Scan# 1632
Delta R.T. -0.005 min
Lab File: 3E125105.d
Acq: 3 Jul 2024 2:17 pm

Tgt Ion:149 Resp: 3225

Ion	Ratio	Lower	Upper
149	100		
150	2.5	0.0	38.9
104	5.8	0.0	34.7

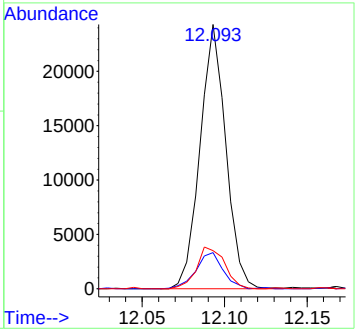


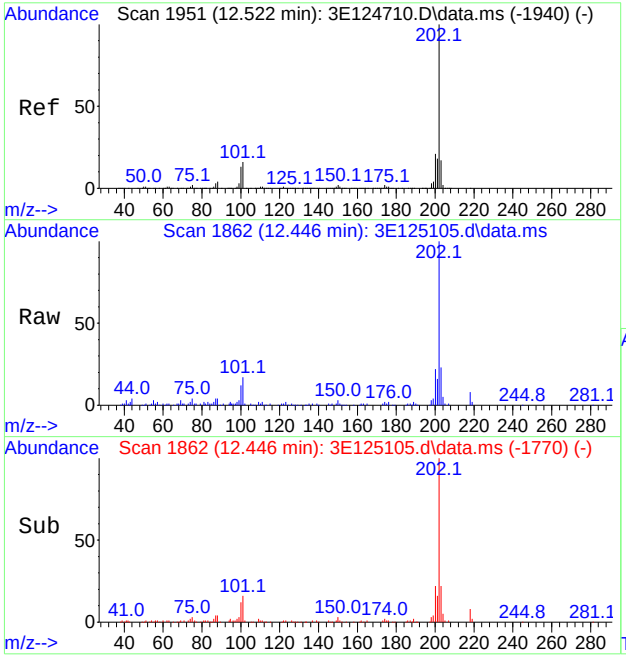


#82
Fluoranthene
Concen: 2.8920 ppm
RT: 12.093 min Scan# 1796
Delta R.T. -0.011 min
Lab File: 3E125105.d
Acq: 3 Jul 2024 2:17 pm

Tgt Ion:202 Resp: 26547

Ion	Ratio	Lower	Upper
202	100		
101	13.7	0.0	42.9
203	14.3	0.0	46.9

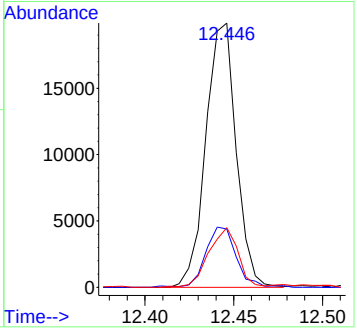


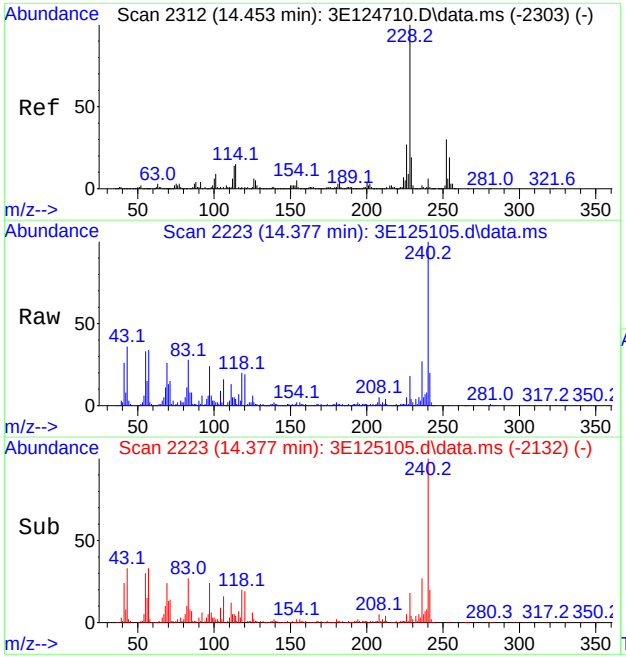


#86
Pyrene
Concen: 2.1508 ppm
RT: 12.446 min Scan# 1862
Delta R.T. -0.011 min
Lab File: 3E125105.d
Acq: 3 Jul 2024 2:17 pm

Tgt Ion:202 Resp: 23630

Ion	Ratio	Lower	Upper
202	100		
200	21.4	0.0	50.4
203	22.2	0.0	47.4

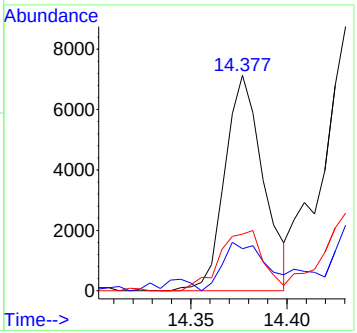


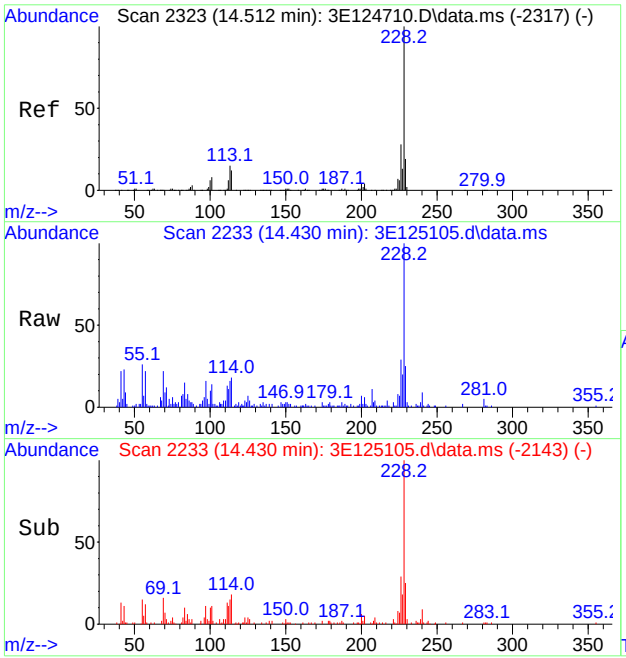


#89
Benzo[a]anthracene
Concen: 0.9751 ppm
RT: 14.377 min Scan# 2223
Delta R.T. -0.011 min
Lab File: 3E125105.d
Acq: 3 Jul 2024 2:17 pm

Tgt Ion:228 Resp: 9947

Ion	Ratio	Lower	Upper
228	100		
229	17.1	0.0	48.7
226	28.1	0.0	56.6

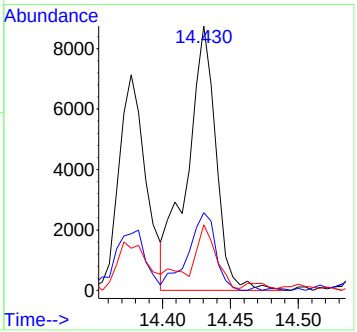


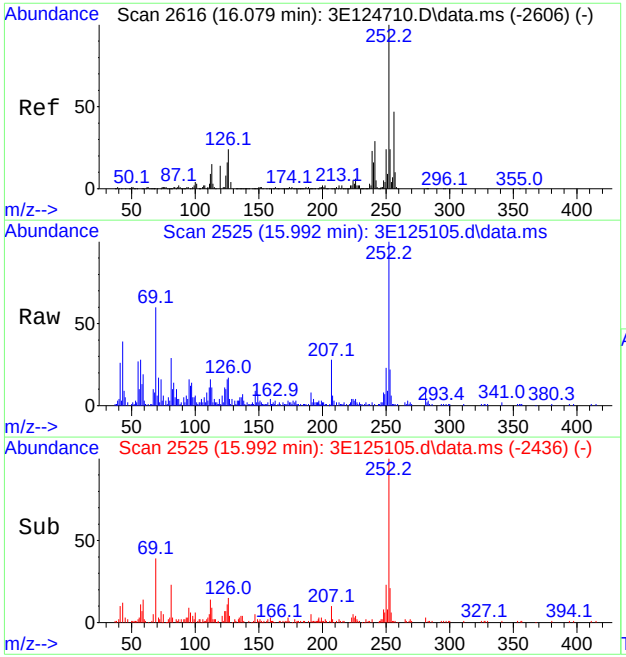


#91
Chrysene
Concen: 1.3135 ppm
RT: 14.430 min Scan# 2233
Delta R.T. -0.016 min
Lab File: 3E125105.d
Acq: 3 Jul 2024 2:17 pm

Tgt Ion:228 Resp: 12957

Ion	Ratio	Lower	Upper
228	100		
226	30.9	0.0	59.4
229	23.2	0.0	49.1

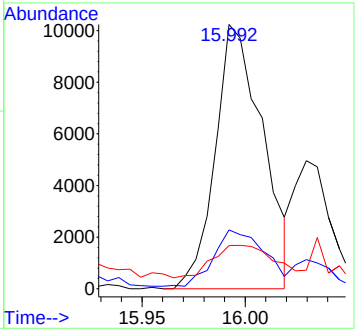


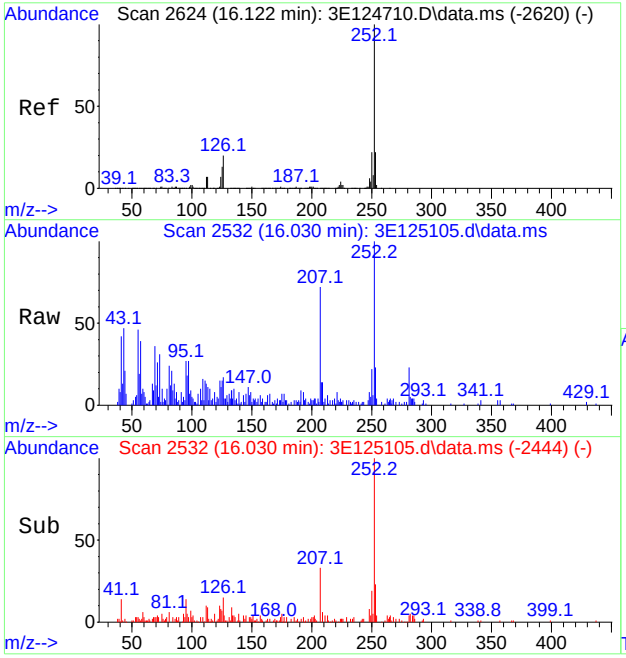


#95
Benzo[b]fluoranthene
Concen: 1.5814 ppm m
RT: 15.992 min Scan# 2525
Delta R.T. -0.021 min
Lab File: 3E125105.d
Acq: 3 Jul 2024 2:17 pm

Tgt Ion:252 Resp: 16381

Ion	Ratio	Lower	Upper
252	100		
253	22.3	0.0	53.9
125	16.4	0.0	46.1

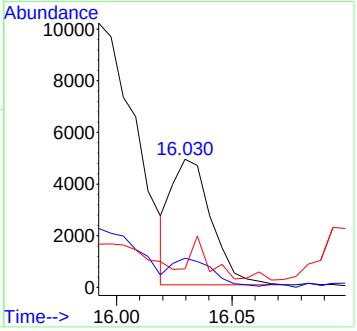


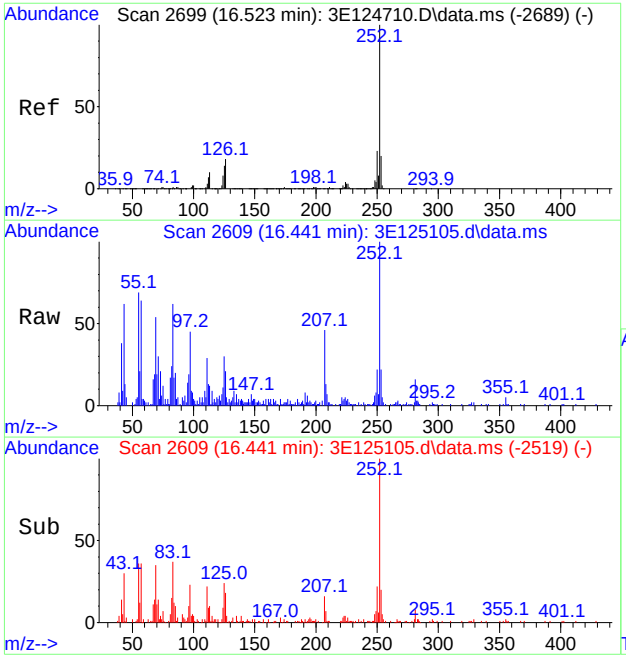


#96
Benzo[k]fluoranthene
Concen: 0.5819 ppm
RT: 16.030 min Scan# 2532
Delta R.T. -0.027 min
Lab File: 3E125105.d
Acq: 3 Jul 2024 2:17 pm

Tgt Ion:252 Resp: 5903

Ion	Ratio	Lower	Upper
252	100		
253	23.7	0.0	51.0
125	0.0	0.0	42.6

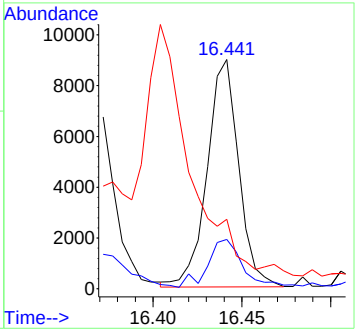


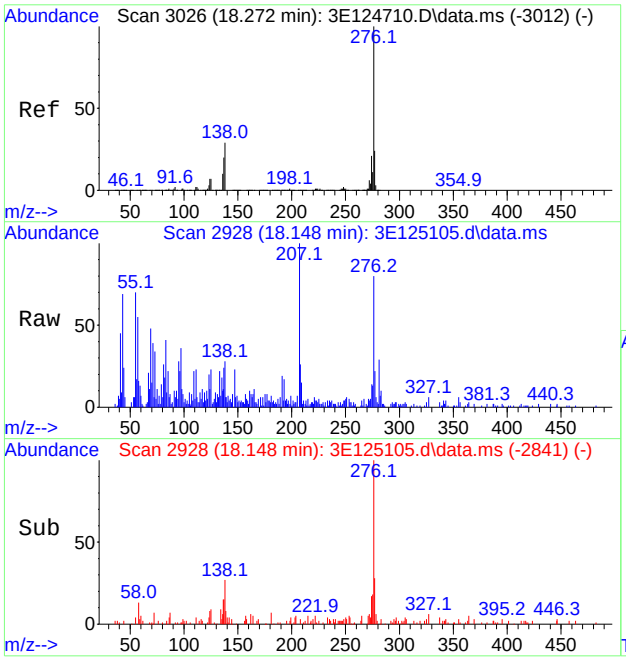


#97
Benzo[a]pyrene
Concen: 1.2547 ppm
RT: 16.441 min Scan# 2609
Delta R.T. -0.016 min
Lab File: 3E125105.d
Acq: 3 Jul 2024 2:17 pm

Tgt Ion:252 Resp: 11081

Ion	Ratio	Lower	Upper
252	100		
253	20.2	0.0	51.2
125	0.0	0.0	43.3

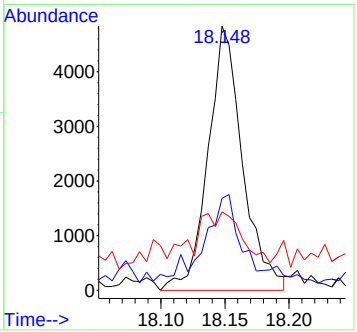


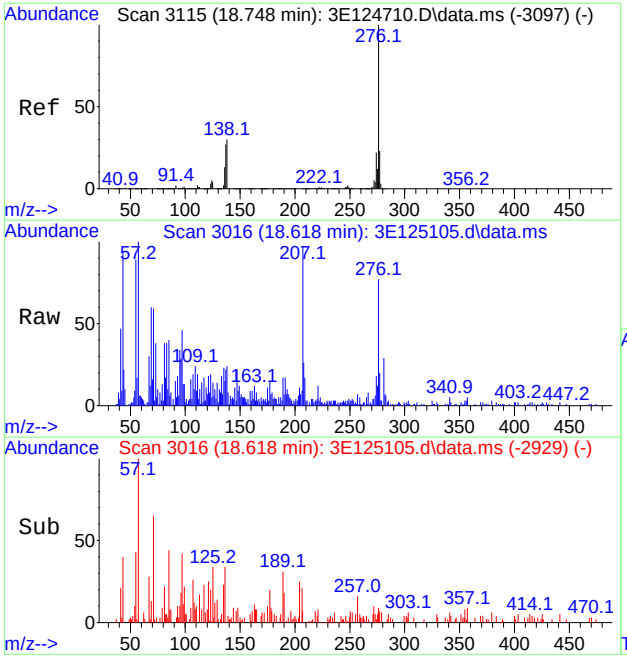


#98
Indeno[1,2,3-cd]pyrene
Concen: 1.0361 ppm
RT: 18.148 min Scan# 2928
Delta R.T. -0.032 min
Lab File: 3E125105.d
Acq: 3 Jul 2024 2:17 pm

Tgt Ion:276 Resp: 9070

Ion	Ratio	Lower	Upper
276	100		
138	37.6	0.0	51.6
137	12.1	0.0	49.0

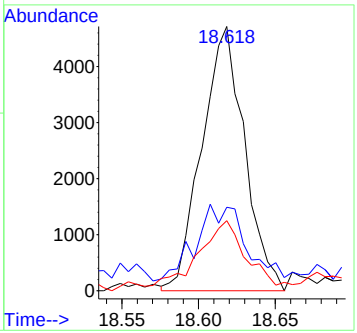




#102
Benzo[g,h,i]perylene
Concen: 1.1044 ppm m
RT: 18.618 min Scan# 3016
Delta R.T. -0.032 min
Lab File: 3E125105.d
Acq: 3 Jul 2024 2:17 pm

Tgt Ion:276 Resp: 9116

Ion	Ratio	Lower	Upper
276	100		
138	31.6	0.0	56.8
277	26.5	0.0	52.9



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 40 Area counts
Start Thrs: 0.05 Max Peaks: 100
Stop Thrs : 0.001 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

Signal : TIC: 3E125105.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.551	195	199	201	rVB2	8566	7066	0.47%	0.041%
2	3.599	202	208	212	rVB	31709	26966	1.80%	0.155%
3	3.637	212	215	220	rVB	10077	7781	0.52%	0.045%
4	3.755	234	237	243	rBV	22347	24335	1.62%	0.140%
5	3.872	253	259	270	rBV	250203	171649	11.43%	0.986%
6	4.268	323	333	341	rBV3	5076	12851	0.86%	0.074%
7	4.338	342	346	352	rBV	28275	21980	1.46%	0.126%
8	4.530	379	382	388	rVV	256849	180560	12.02%	1.037%
9	4.578	388	391	393	rVV	56131	43101	2.87%	0.247%
10	4.600	393	395	401	rVB	13109	11378	0.76%	0.065%
11	4.744	419	422	427	rVB	6607	6863	0.46%	0.039%
12	4.803	429	433	439	rBV	703030	467101	31.10%	2.682%
13	4.910	450	453	456	rBV	16066	12976	0.86%	0.075%
14	4.942	456	459	465	rVV4	5860	8593	0.57%	0.049%
15	5.241	510	515	524	rVV	235875	184317	12.27%	1.058%
16	5.306	524	527	534	rVB3	8090	8030	0.53%	0.046%
17	5.632	582	588	596	rBV9	3080	9417	0.63%	0.054%
18	5.894	632	637	645	rBV	837203	673070	44.82%	3.865%
19	7.103	858	863	874	rBV	439036	393683	26.21%	2.260%
20	7.242	880	889	894	rBV7	4038	6453	0.43%	0.037%
21	7.306	897	901	911	rVB6	5414	10044	0.67%	0.058%
22	7.991	1023	1029	1036	rBV	812214	829838	55.26%	4.765%
23	8.397	1098	1105	1110	rBV10	3724	6485	0.43%	0.037%
24	8.713	1159	1164	1170	rBV3	7833	9071	0.60%	0.052%
25	8.825	1180	1185	1193	rBV10	4153	7915	0.53%	0.045%
26	9.130	1232	1242	1252	rBV	140446	158775	10.57%	0.912%
27	9.349	1279	1283	1291	rVB8	3415	5697	0.38%	0.033%
28	9.440	1294	1300	1308	rVB4	9259	14977	1.00%	0.086%
29	9.563	1319	1323	1330	rVB8	6468	9462	0.63%	0.054%
30	9.638	1334	1337	1341	rVB5	4516	5263	0.35%	0.030%
31	9.740	1350	1356	1366	rBV5	18019	38822	2.59%	0.223%
32	9.831	1368	1373	1380	rVV10	6725	11411	0.76%	0.066%
33	10.146	1425	1432	1434	rBV4	7817	10374	0.69%	0.060%
34	10.189	1434	1440	1444	rBV	810121	896842	59.72%	5.149%
35	10.275	1451	1456	1460	rBV6	14921	18416	1.23%	0.106%
36	10.435	1482	1486	1489	rVV3	6712	7750	0.52%	0.044%
37	10.579	1508	1513	1519	rVB9	7646	10686	0.71%	0.061%
38	10.660	1521	1528	1532	rBV10	7562	12491	0.83%	0.072%
39	10.713	1536	1538	1548	rVV10	3993	7442	0.50%	0.043%
40	10.831	1553	1560	1567	rVB8	9026	13587	0.90%	0.078%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 40 Area counts
Start Thrs: 0.05 Max Peaks: 100
Stop Thrs : 0.001 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

41	10.954	1579	1583	1587	rBV7	4447	7938	0.53%	0.046%
42	11.029	1593	1597	1602	rVV5	4283	6504	0.43%	0.037%
43	11.071	1602	1605	1612	rVB8	6059	8120	0.54%	0.047%
44	11.141	1612	1618	1623	rBV6	7228	12432	0.83%	0.071%
45	11.200	1623	1629	1643	rVV2	106256	144309	9.61%	0.829%
46	11.483	1673	1682	1689	rBV2	18024	37147	2.47%	0.213%
47	11.863	1747	1753	1758	rBV10	4390	9788	0.65%	0.056%
48	11.965	1766	1772	1777	rBV9	5823	9418	0.63%	0.054%
49	12.045	1781	1787	1791	rBV6	9111	15763	1.05%	0.091%
50	12.093	1791	1796	1804	rVV	59254	84039	5.60%	0.483%
51	12.157	1804	1808	1813	rVV5	10192	11303	0.75%	0.065%
52	12.296	1830	1834	1837	rBV5	10057	14089	0.94%	0.081%
53	12.328	1837	1840	1843	rVV4	24618	29443	1.96%	0.169%
54	12.355	1844	1845	1855	rVB4	18537	32967	2.20%	0.189%
55	12.441	1855	1861	1864	rBV	55116	73837	4.92%	0.424%
56	12.467	1864	1866	1871	rVB2	54846	59372	3.95%	0.341%
57	12.719	1909	1913	1916	rBV4	10572	12599	0.84%	0.072%
58	12.762	1916	1921	1931	rVB	465532	518849	34.55%	2.979%
59	13.002	1951	1966	1975	rBV7	24416	49651	3.31%	0.285%
60	13.157	1992	1995	2002	rVV9	4015	5844	0.39%	0.034%
61	13.264	2010	2015	2019	rBV2	35188	59944	3.99%	0.344%
62	13.302	2019	2022	2027	rVB3	23907	31916	2.13%	0.183%
63	13.436	2042	2047	2050	rBV6	5392	8419	0.56%	0.048%
64	13.473	2051	2054	2064	rVB6	6035	11028	0.73%	0.063%
65	13.559	2066	2070	2074	rVV4	12269	16632	1.11%	0.095%
66	13.601	2075	2078	2082	rVV6	10823	13708	0.91%	0.079%
67	13.644	2082	2086	2094	rVB9	21125	33335	2.22%	0.191%
68	13.863	2119	2127	2132	rVB6	14862	30277	2.02%	0.174%
69	13.949	2140	2143	2147	rBV5	12424	16945	1.13%	0.097%
70	14.035	2155	2159	2167	rVB5	26013	33527	2.23%	0.193%
71	14.211	2188	2192	2199	rVB9	12630	19536	1.30%	0.112%
72	14.393	2219	2226	2238	rBV2	988375	1501749	100.00%	8.623%
73	14.580	2258	2261	2265	rVB4	21122	23777	1.58%	0.137%
74	14.628	2265	2270	2278	rBV	73387	101560	6.76%	0.583%
75	14.741	2285	2291	2305	rBV	122308	182831	12.17%	1.050%
76	14.922	2318	2325	2332	rVB3	54390	84138	5.60%	0.483%
77	15.104	2354	2359	2365	rVB2	88554	104754	6.98%	0.601%
78	15.259	2384	2388	2393	rVB7	24830	32592	2.17%	0.187%
79	15.431	2413	2420	2431	rBV	589916	1011759	67.37%	5.809%
80	15.612	2450	2454	2457	rBV4	26372	33419	2.23%	0.192%
81	15.757	2476	2481	2491	rBV2	145409	234273	15.60%	1.345%
82	15.928	2506	2513	2521	rVB4	38651	96469	6.42%	0.554%
83	15.992	2521	2525	2530	rBV2	49845	73736	4.91%	0.423%
84	16.099	2539	2545	2551	rBV	391320	484514	32.26%	2.782%
85	16.244	2568	2572	2580	rBV10	22246	43286	2.88%	0.249%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 40 Area counts
Start Thrs: 0.05 Max Peaks: 100
Stop Thrs : 0.001 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

86	16.377	2591	2597	2600	rBV	655239	943924	62.85%	5.420%
87	16.527	2618	2625	2629	rBV	800383	1038487	69.15%	5.963%
88	16.570	2630	2633	2638	rVB2	49999	62985	4.19%	0.362%
89	16.720	2656	2661	2671	rBV5	61456	110592	7.36%	0.635%
90	16.853	2682	2686	2690	rVB3	43420	55162	3.67%	0.317%
91	17.078	2722	2728	2735	rBV	436627	651874	43.41%	3.743%
92	17.378	2776	2784	2789	rBV	790334	1317814	87.75%	7.567%
93	17.436	2790	2795	2803	rVV2	195268	437019	29.10%	2.509%
94	17.501	2804	2807	2819	rVB3	91951	166406	11.08%	0.955%
95	18.287	2946	2954	2961	rBV	322308	643163	42.83%	3.693%
96	18.453	2977	2985	2992	rBV3	281465	567949	37.82%	3.261%
97	18.522	2993	2998	3011	rVB7	66951	148410	9.88%	0.852%
98	18.650	3015	3022	3031	rVB2	172067	426555	28.40%	2.449%
99	18.757	3035	3042	3049	rBV3	145933	390050	25.97%	2.240%
100	18.971	3075	3082	3096	rBV4	234235	664695	44.26%	3.817%

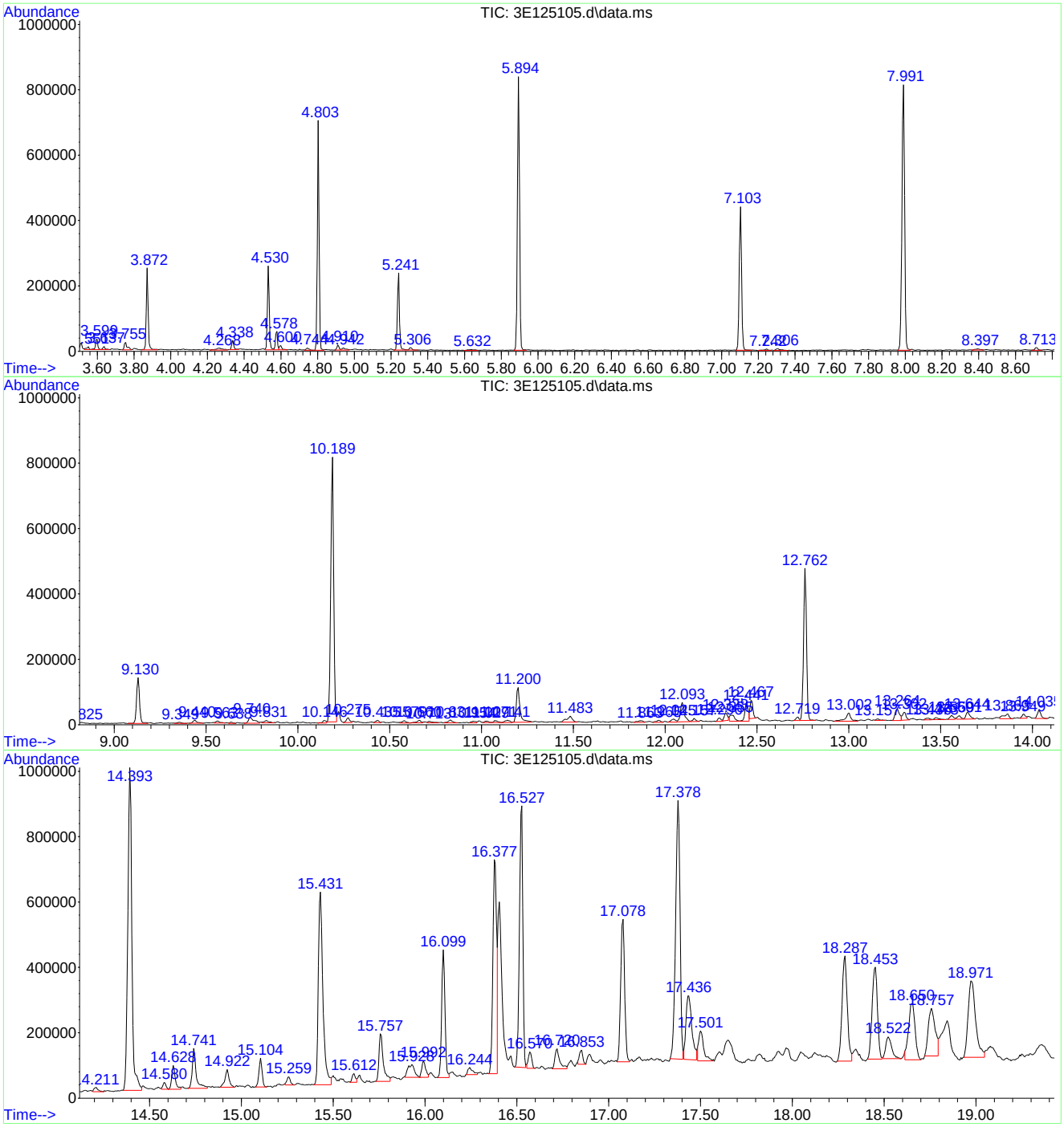
Sum of corrected areas: 17416139

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

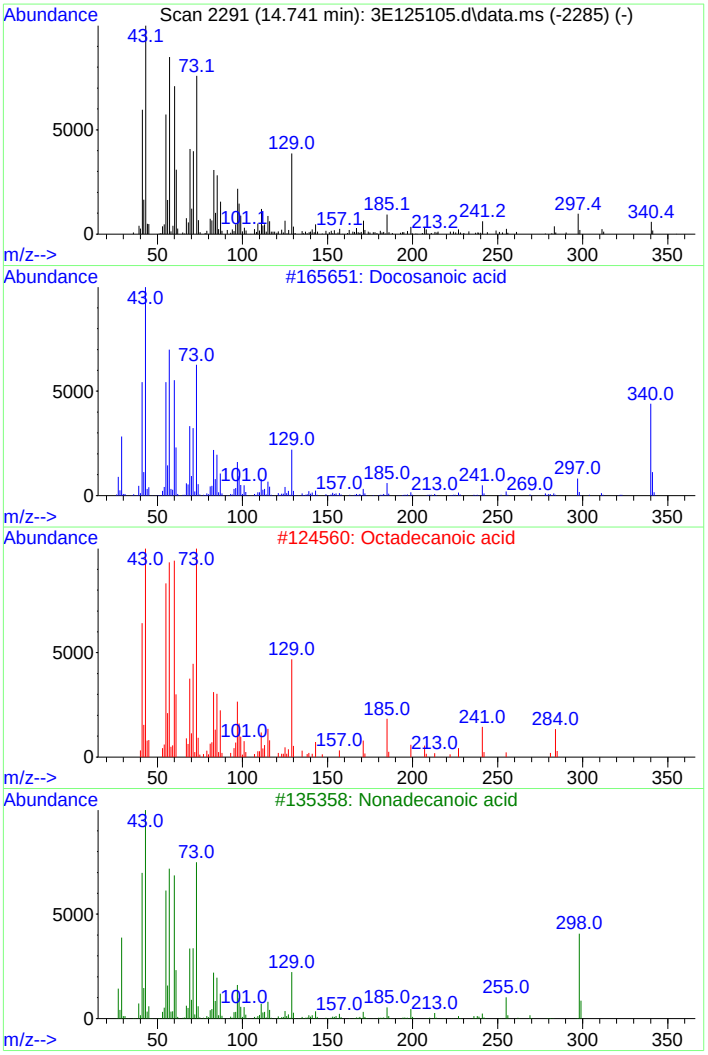
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

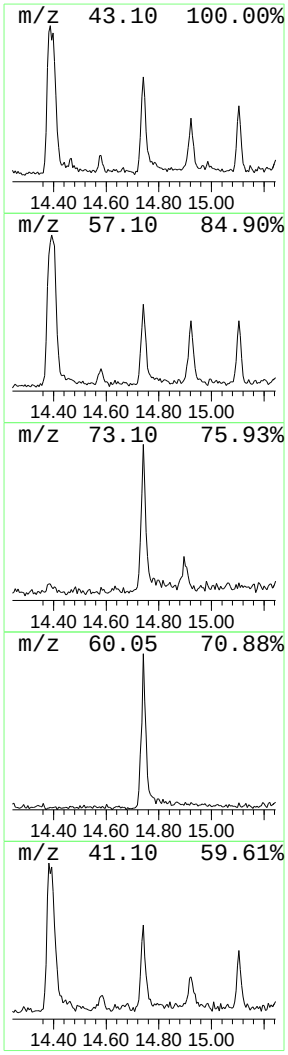
****

Peak Number 1 unknown acid Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.741	4.87 ppm	182831	Chrysene-d12b	14.393

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosanoic acid	340	C22H44O2	000112-85-6	99
2	Octadecanoic acid	284	C18H36O2	000057-11-4	98
3	Nonadecanoic acid	298	C19H38O2	000646-30-0	93
4	Eicosanoic acid	312	C20H40O2	000506-30-9	80
5	Docosanoic acid	340	C22H44O2	000112-85-6	80





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

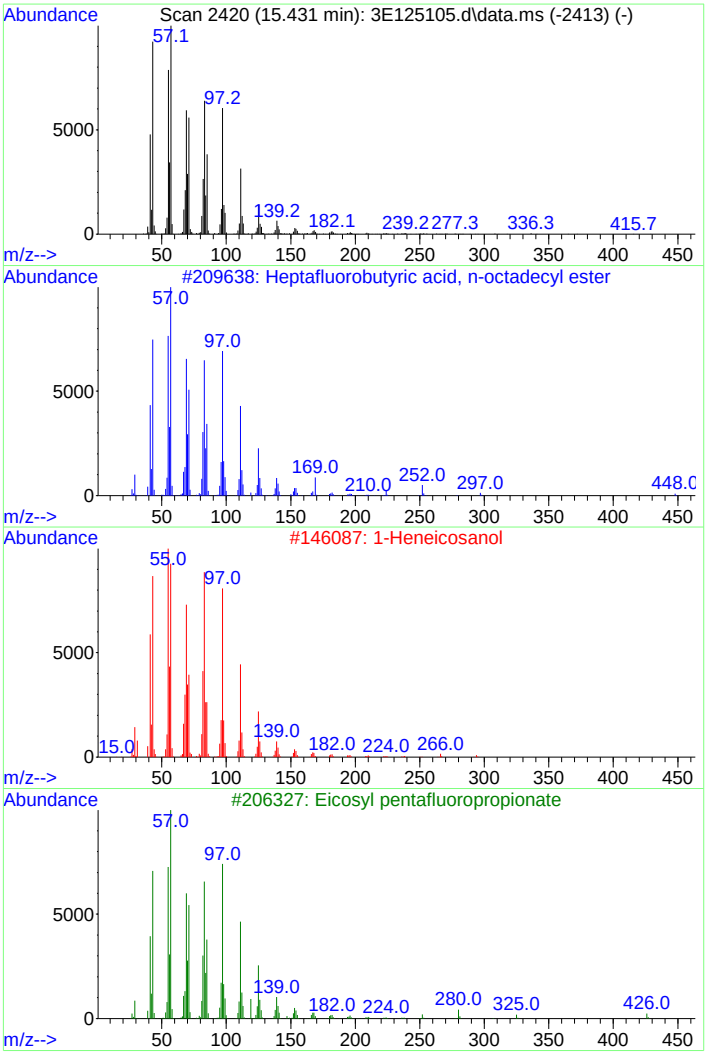
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

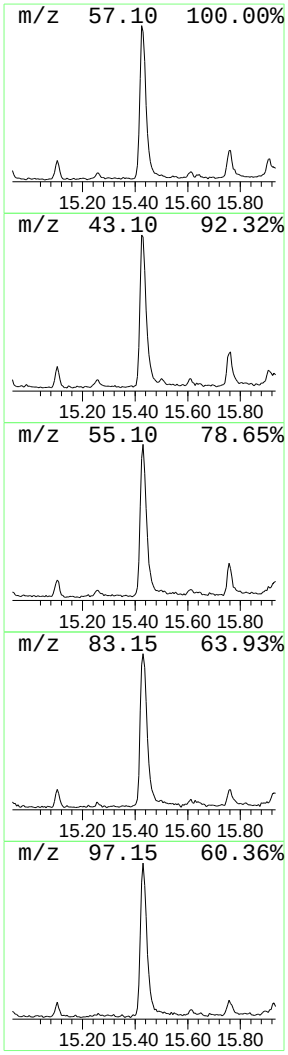
****

Peak Number 2 unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.431	26.95 ppm	1011760	Chrysene-d12b	14.393

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	94
2	1-Heneicosanol	312	C21H44O	015594-90-8	92
3	Eicosyl pentafluoropropionate	444	C23H41F5O2	1000351-80-8	91
4	Octadecyl pentafluoropropionate	416	C21H37F5O2	1000351-80-7	91
5	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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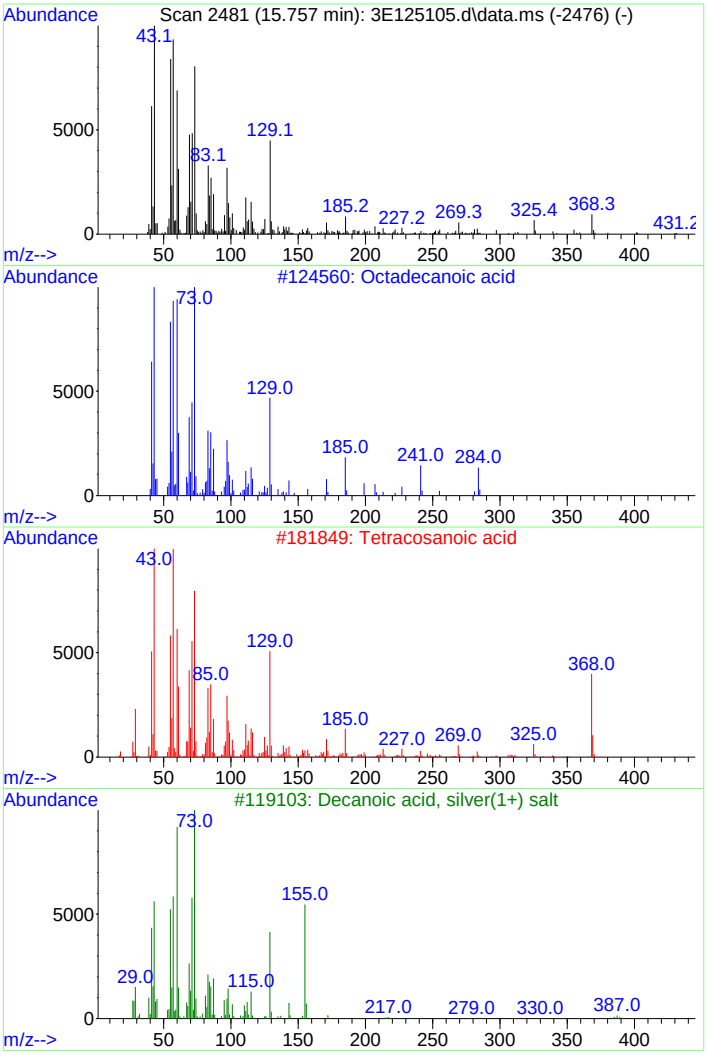
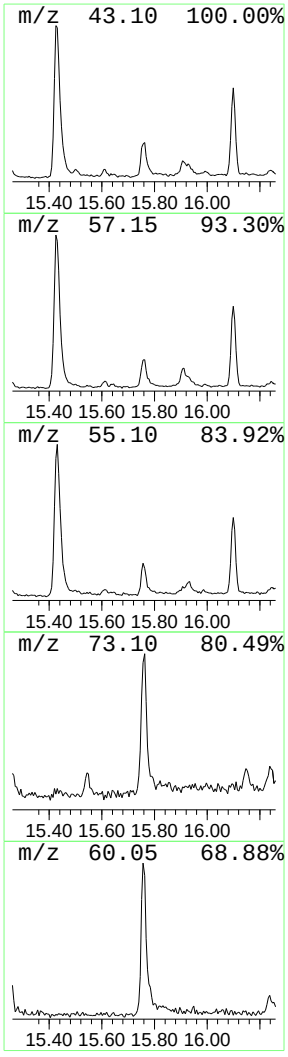
Peak Number 3 unknown acid Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.757	9.02 ppm	234273	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	90
2	Tetracosanoic acid	368	C24H48O2	000557-59-5	87
3	Decanoic acid, silver(1+) salt	278	C10H19AgO2	013126-67-5	59
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	50
5	Undecanoic acid	186	C11H22O2	000112-37-8	50





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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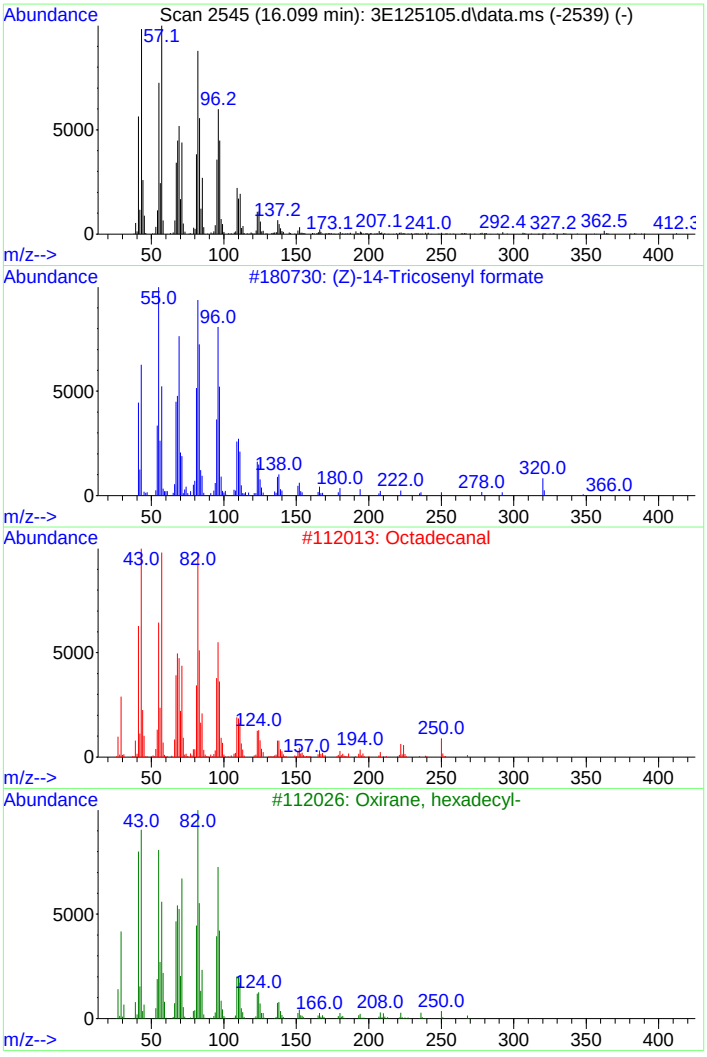
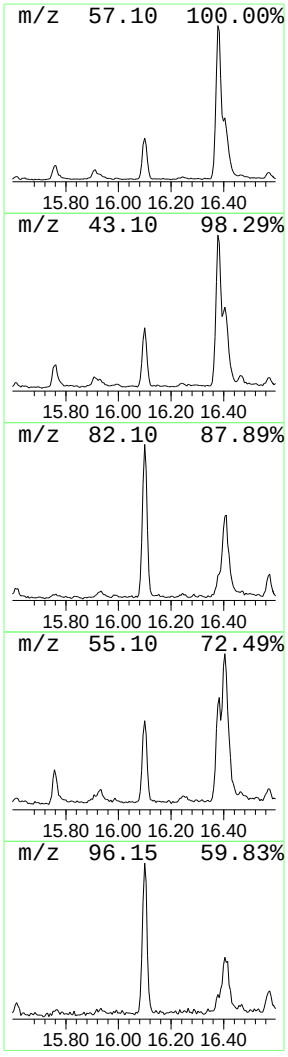
Peak Number 4 unknown alcohol Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.099	18.66 ppm	484514	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	91
2	Octadecanal	268	C18H36O	000638-66-4	91
3	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
4	1,19-Eicosadiene	278	C20H38	014811-95-1	90
5	17-Octadecenal	266	C18H34O	056554-86-0	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

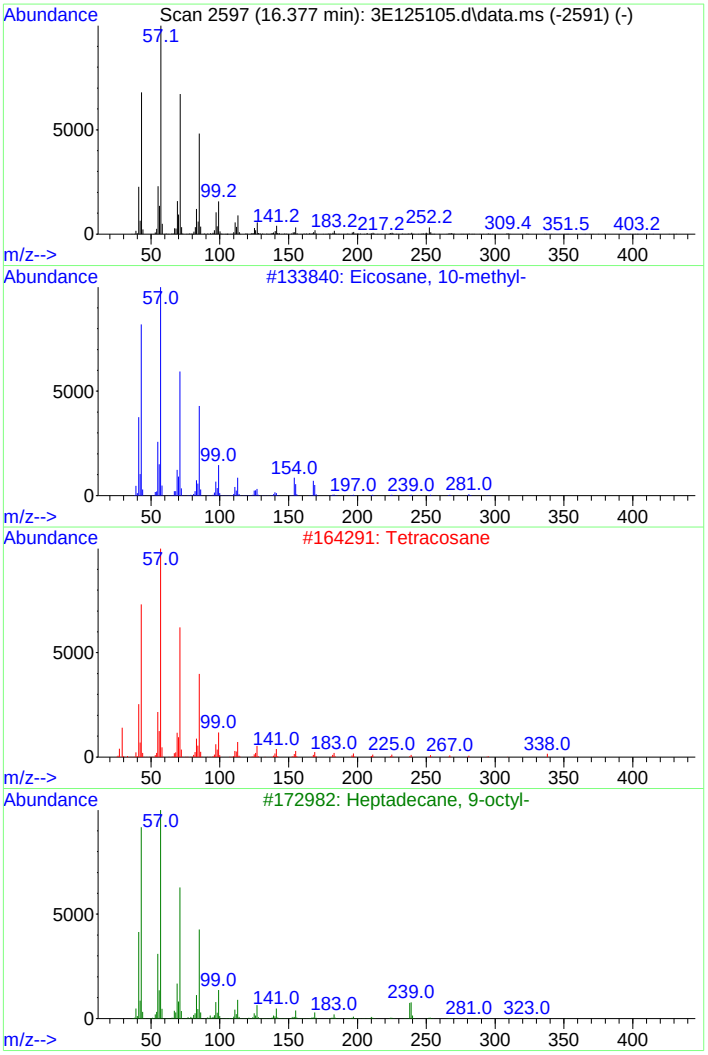
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

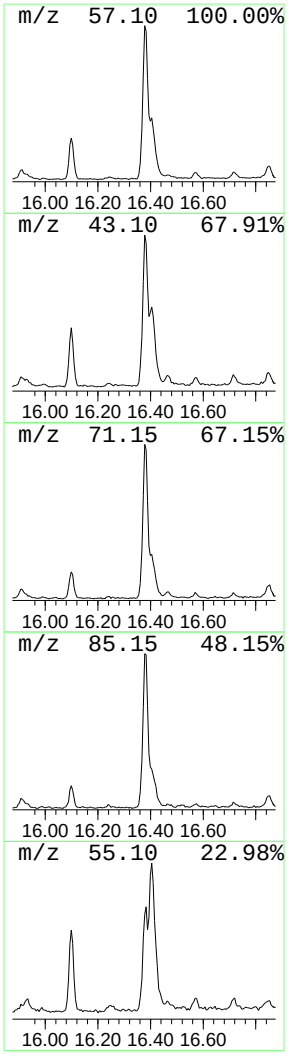
****

Peak Number 5 alkane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.377	36.36 ppm	943924	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane, 10-methyl-	296	C21H44	054833-23-7	93
2	Tetracosane	338	C24H50	000646-31-1	91
3	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	91
4	Octacosane	394	C28H58	000630-02-4	91
5	Octadecane	254	C18H38	000593-45-3	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

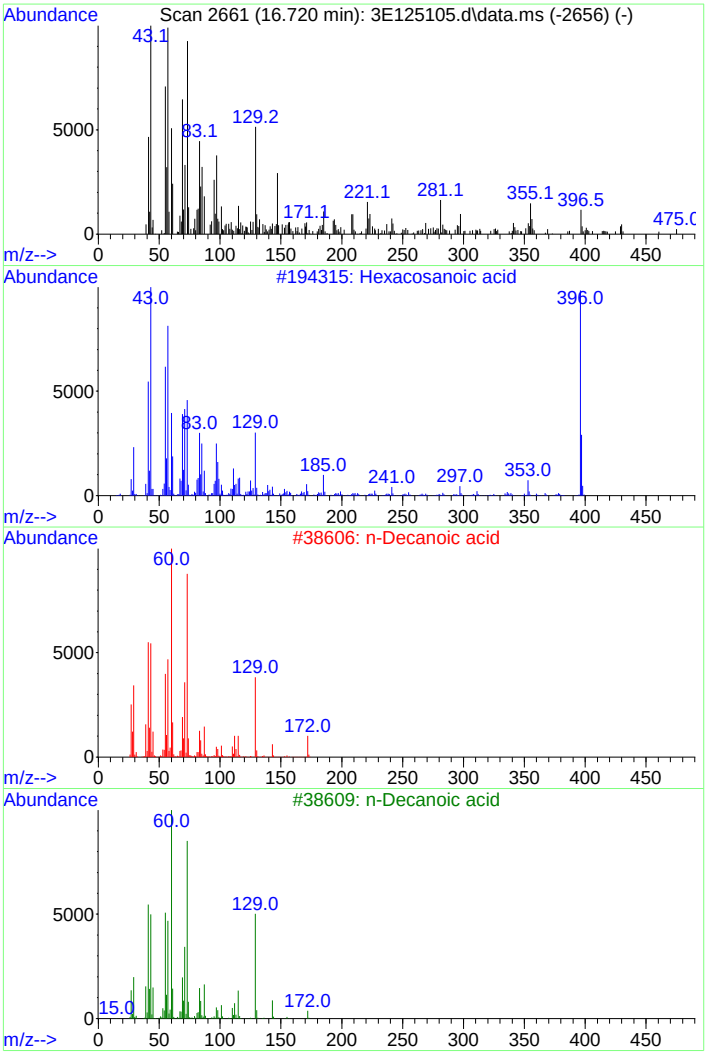
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

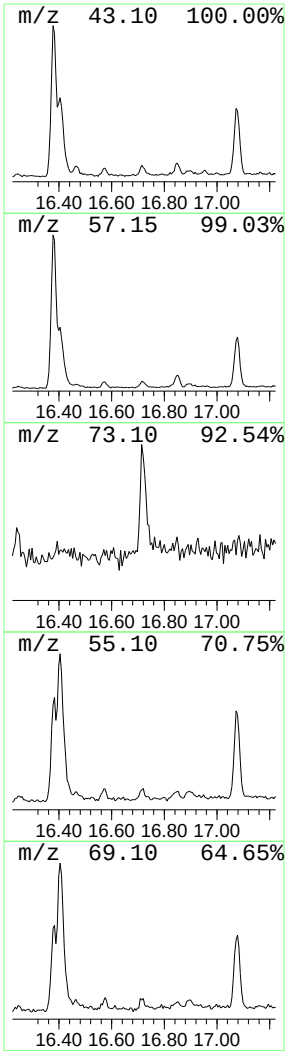
****

Peak Number 6 unknown acid Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.720	4.26 ppm	110592	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexacosanoic acid	396	C26H52O2	000506-46-7	64
2	n-Decanoic acid	172	C10H20O2	000334-48-5	32
3	n-Decanoic acid	172	C10H20O2	000334-48-5	32
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	27
5	n-Decanoic acid	172	C10H20O2	000334-48-5	16





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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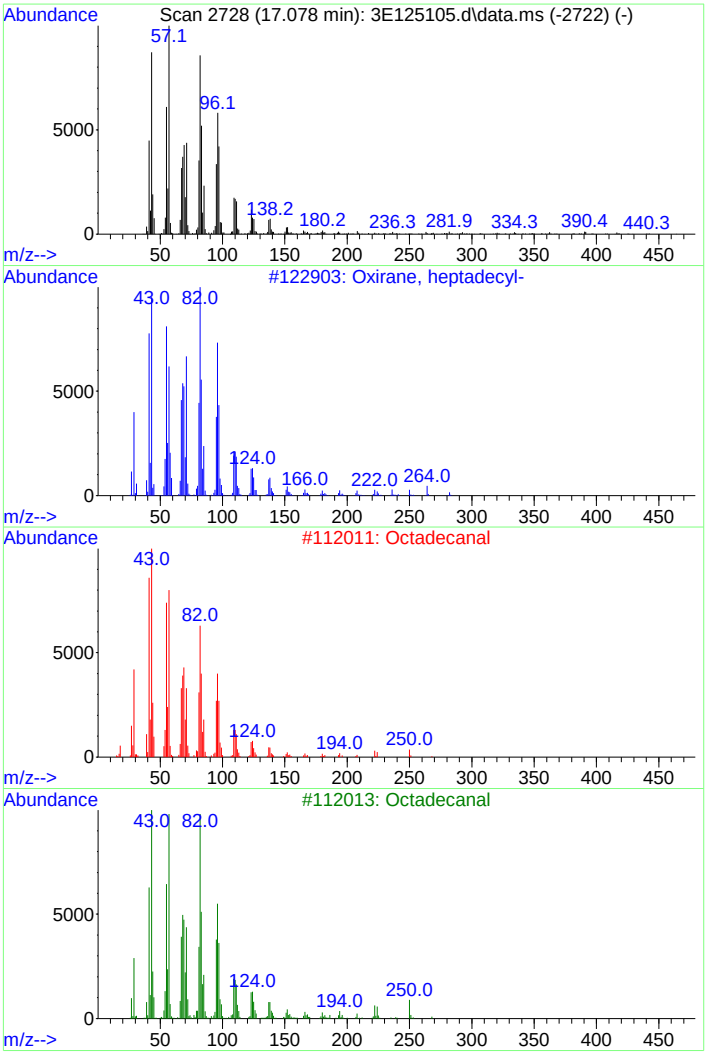
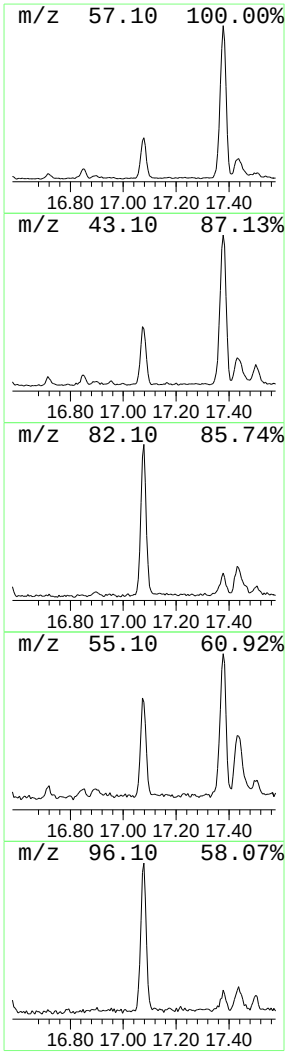
Peak Number 7 unknown alcohol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.078	25.11 ppm	651874	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	94
2	Octadecanal	268	C18H36O	000638-66-4	90
3	Octadecanal	268	C18H36O	000638-66-4	87
4	17-Octadecenal	266	C18H34O	056554-86-0	80
5	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	74





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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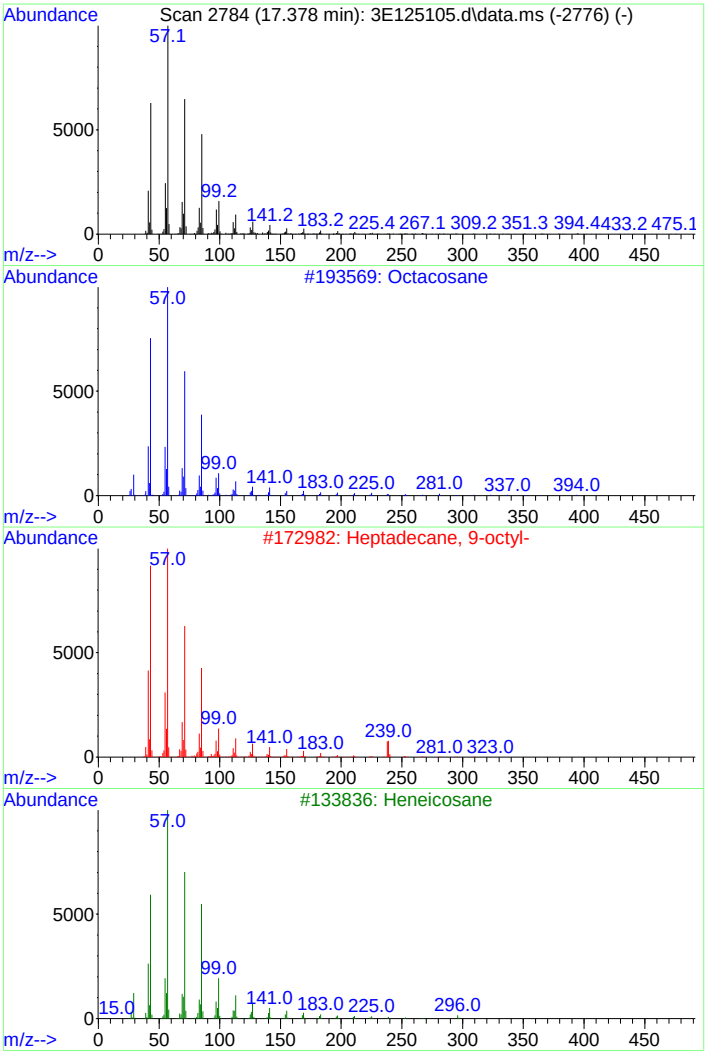
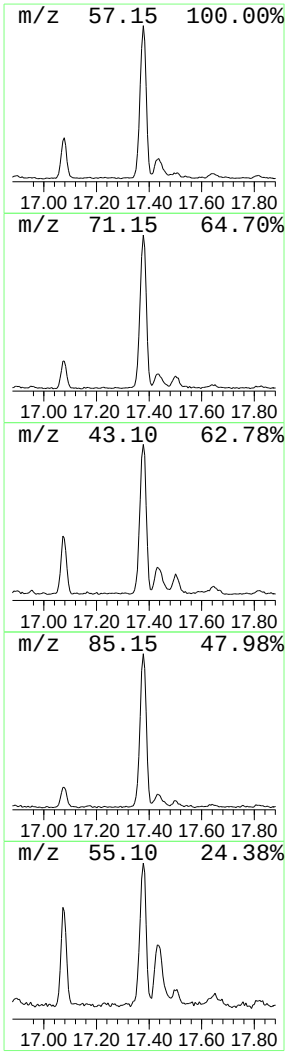
Peak Number 8 alkane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.378	50.76 ppm	1317810	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	99
2	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	95
3	Heneicosane	296	C21H44	000629-94-7	91
4	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	91
5	Hexatriacontane	507	C36H74	000630-06-8	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

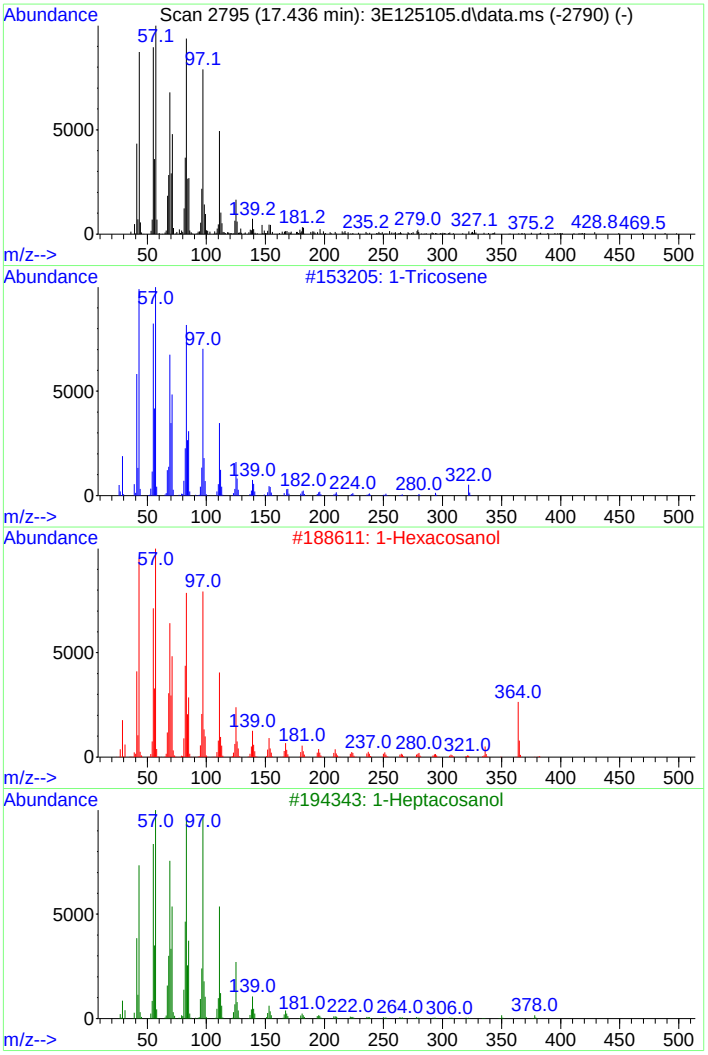
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

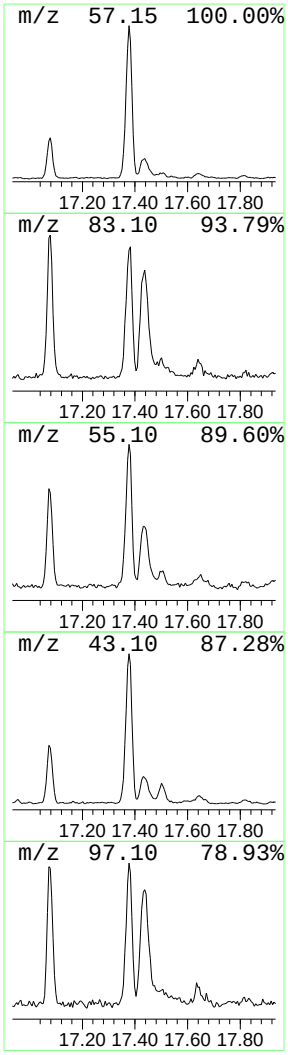
****

Peak Number 9 unknown alcohol Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.436	16.83 ppm	437019	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Tricosene	322	C23H46	018835-32-0	93
2	1-Hexacosanol	382	C26H54O	000506-52-5	93
3	1-Heptacosanol	396	C27H56O	002004-39-9	91
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	90
5	13-Tetradecen-1-ol acetate	254	C16H30O2	056221-91-1	87





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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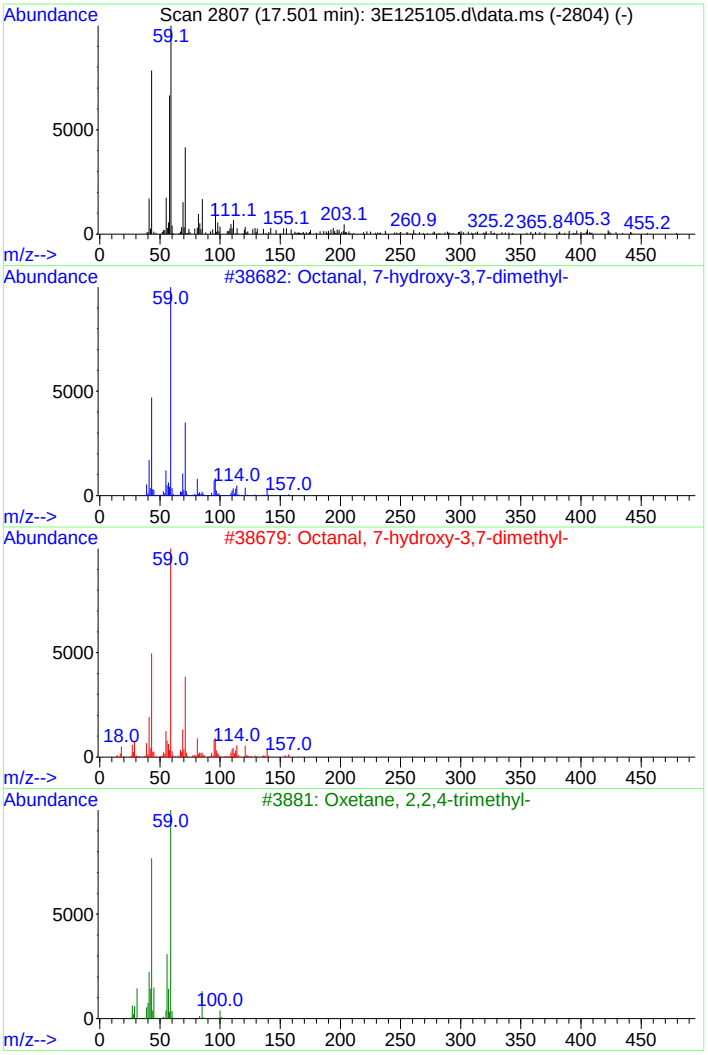
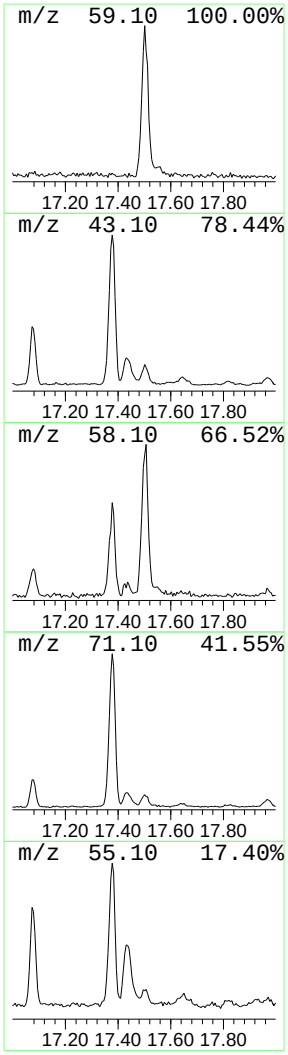
Peak Number 10 unknown Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.500	6.41 ppm	166406	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octanal, 7-hydroxy-3,7-dimethyl-	172	C10H20O2	000107-75-5	50
2	Octanal, 7-hydroxy-3,7-dimethyl-	172	C10H20O2	000107-75-5	40
3	Oxetane, 2,2,4-trimethyl-	100	C6H12O	023120-44-7	35
4	2-Pentadecanone	226	C15H30O	002345-28-0	32
5	2-Nonadecanone	282	C19H38O	000629-66-3	32





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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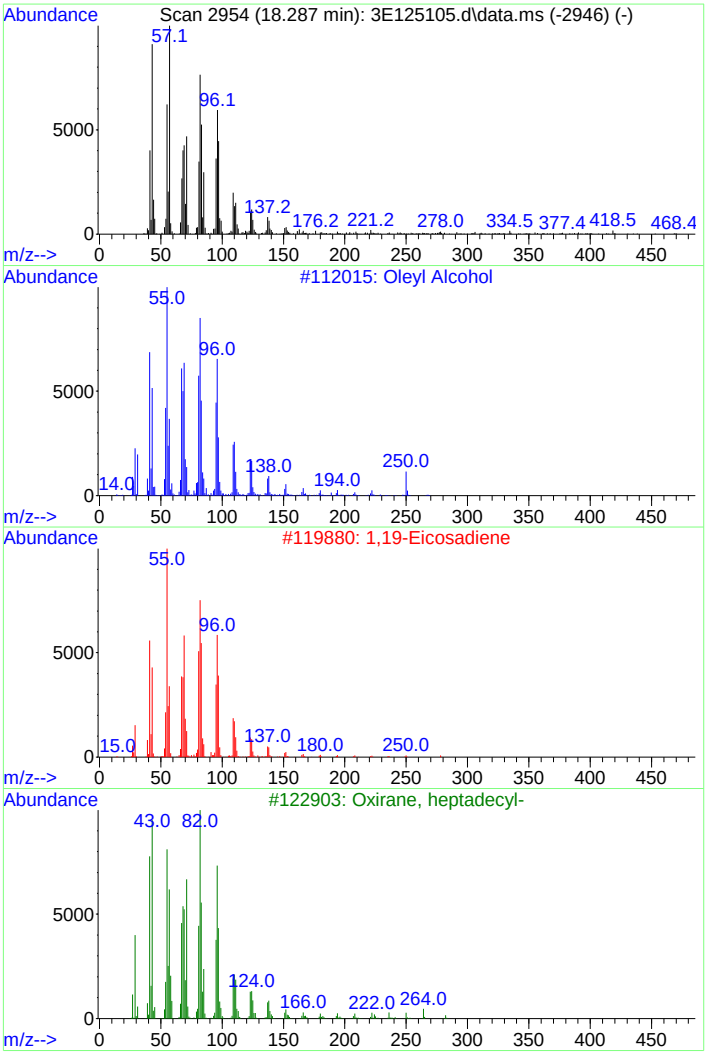
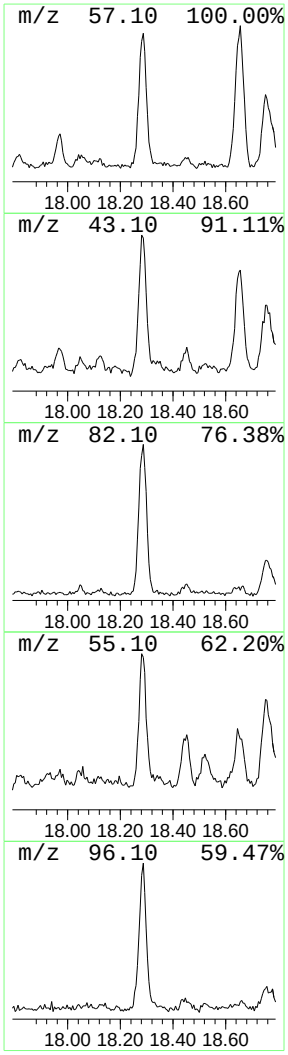
Peak Number 11 unknown alcohol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.287	24.77 ppm	643163	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oleyl Alcohol	268	C18H36O	000143-28-2	83
2	1,19-Eicosadiene	278	C20H38	014811-95-1	81
3	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	74
4	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	72
5	Z-10-Octadecen-1-ol acetate	310	C20H38O2	1000131-07-2	64





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

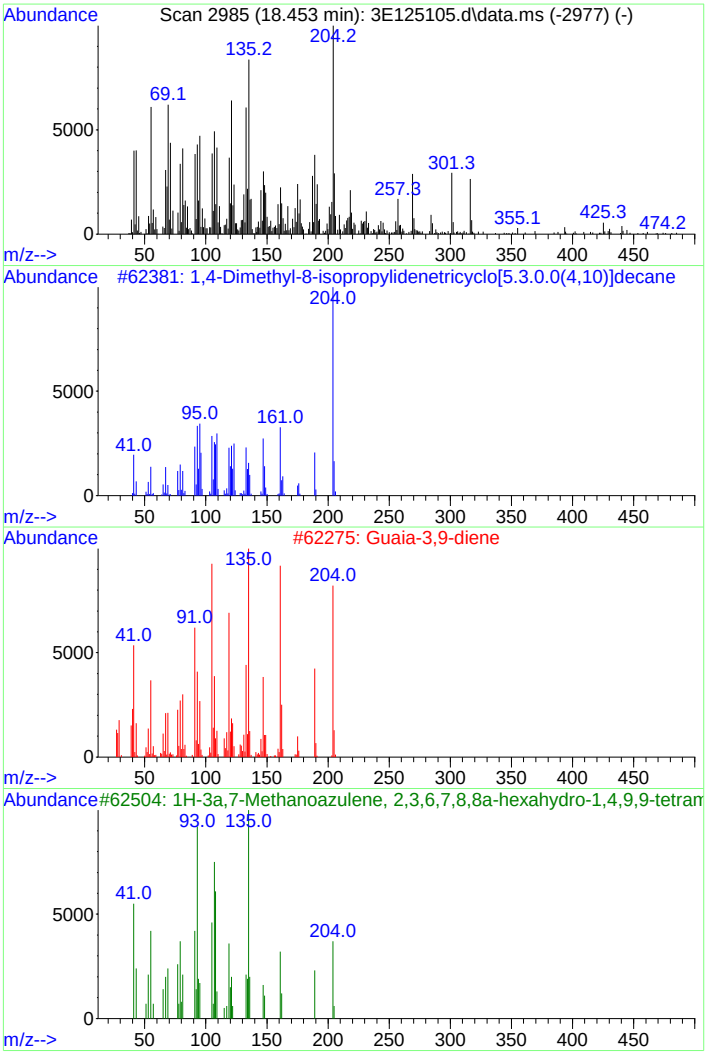
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

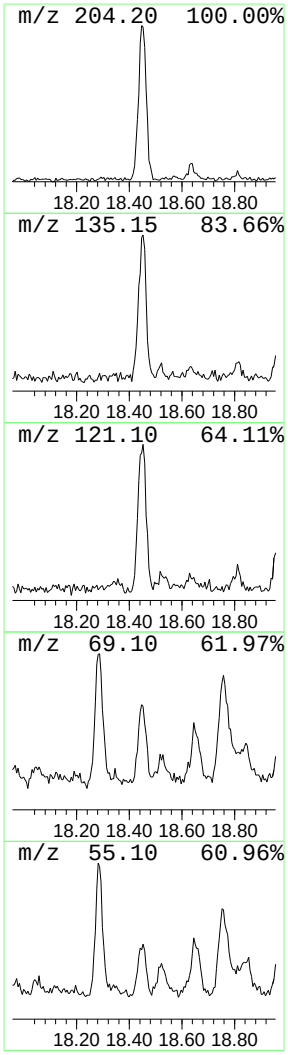
****

Peak Number 12 unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.453	21.88 ppm	567949	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1000140-07-7	64
2	Guaia-3,9-diene	204	C15H24	000489-83-8	58
3	1H-3a,7-Methanoazulene, 2,3,6,7,...	204	C15H24	000560-32-7	49
4	Naphthalene, 1,2,3,5,6,7,8,8a-oc...	204	C15H24	004630-07-3	49
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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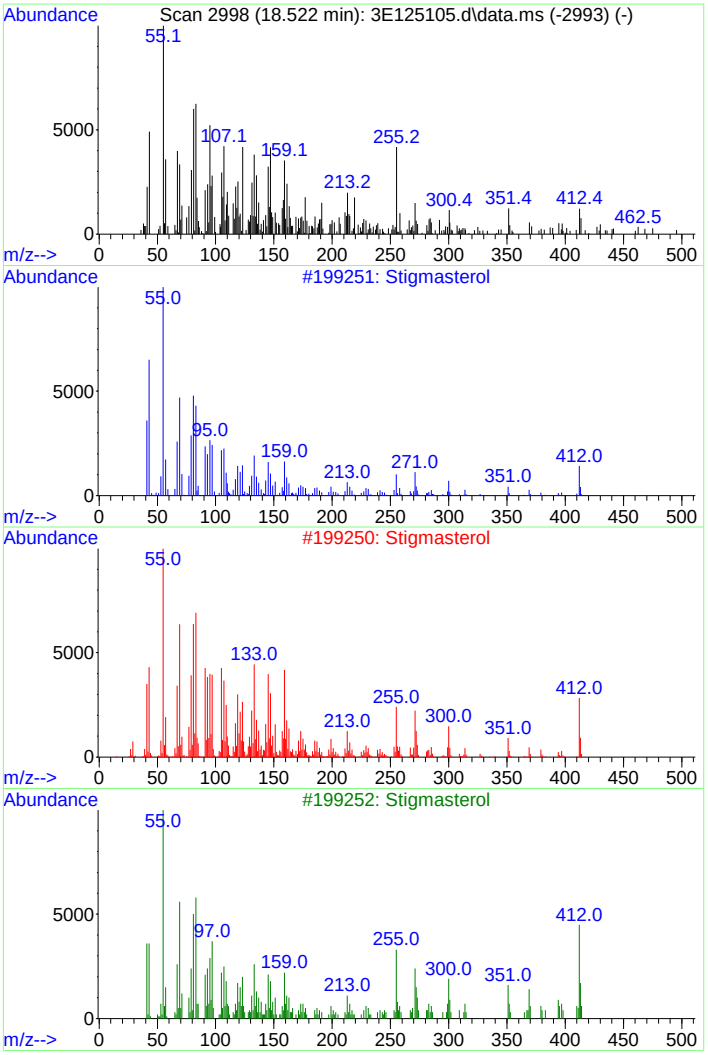
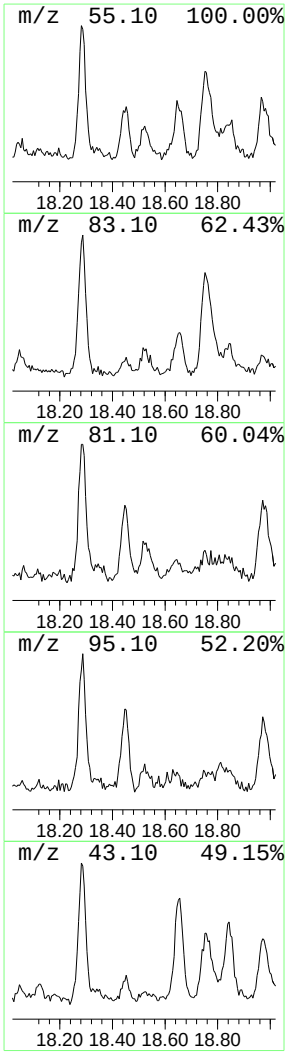
Peak Number 13 Stigmasterol Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.522	5.72 ppm	148410	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmasterol	412	C29H48O	000083-48-7	86
2	Stigmasterol	412	C29H48O	000083-48-7	72
3	Stigmasterol	412	C29H48O	000083-48-7	62
4	Cholesta-22,24-dien-5-ol, 4,4-di...	412	C29H48O	1000128-66-1	47
5	Stigmasterol	412	C29H48O	000083-48-7	45





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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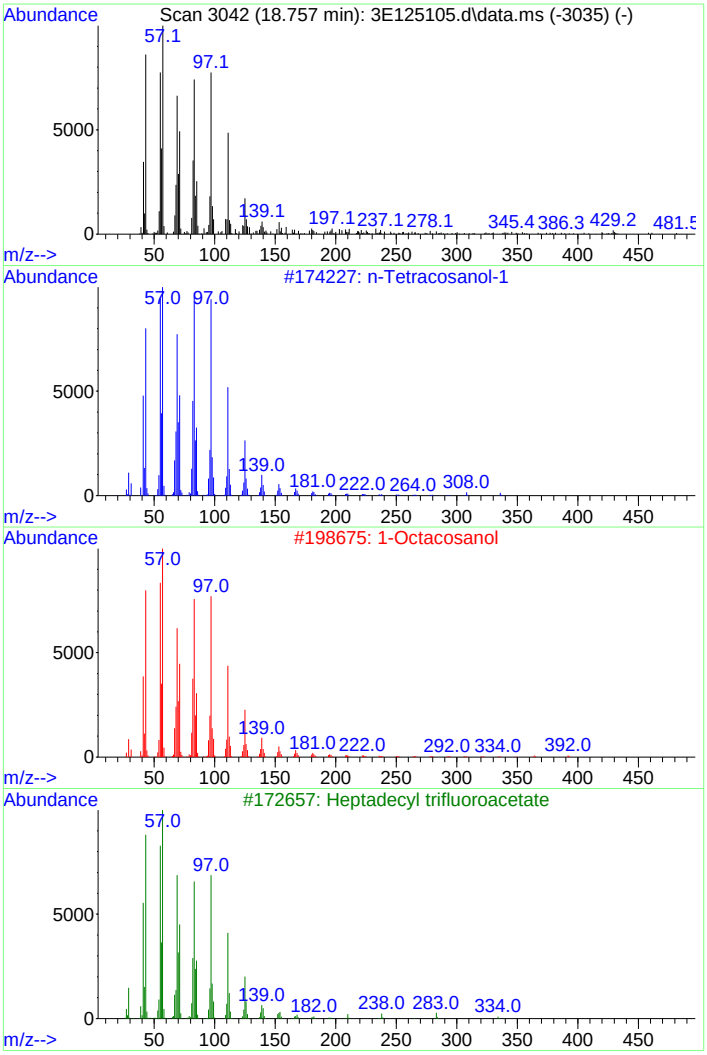
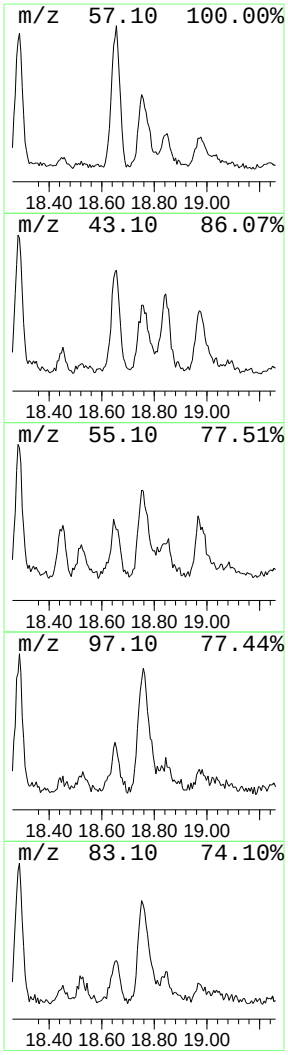
Peak Number 14 unknown alcohol Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.758	15.02 ppm	390050	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Tetracosanol-1	354	C24H50O	000506-51-4	91
2	1-Octacosanol	410	C28H58O	1000351-79-2	91
3	Heptadecyl trifluoroacetate	352	C19H35F3O2	1000351-87-0	87
4	Behenic alcohol	326	C22H46O	000661-19-8	87
5	Z-12-Pentacosene	350	C25H50	1000131-09-4	83





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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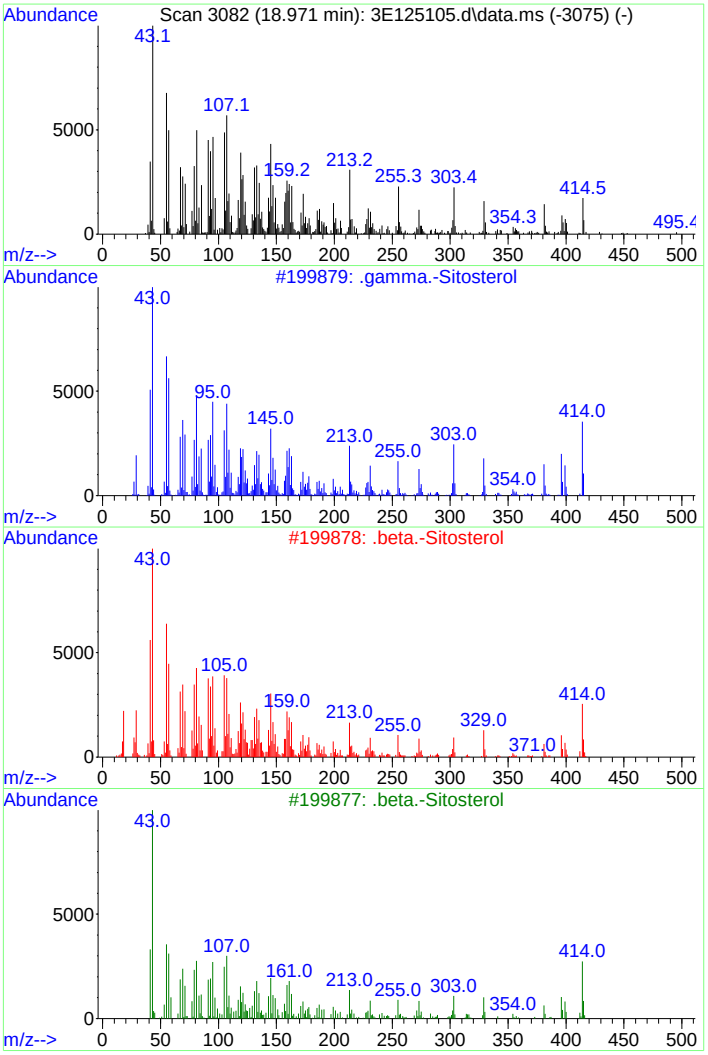
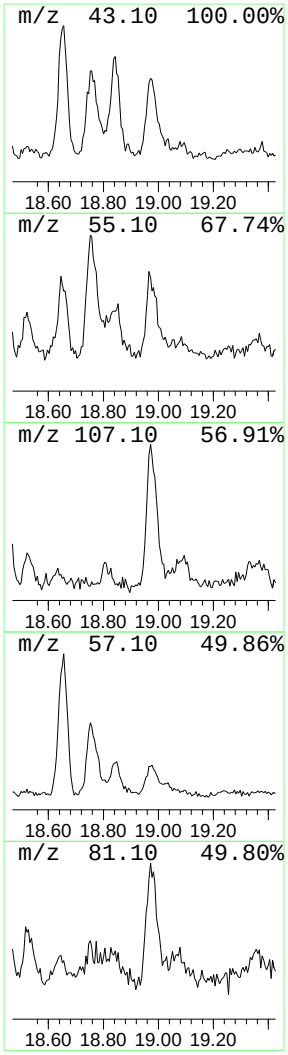
Peak Number 15 Sitosterol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.971	25.60 ppm	664695	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	93
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	83
4	.gamma.-Sitosterol	414	C29H50O	000083-47-6	70
5	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	68





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125105.d
Acq On : 3 Jul 2024 2:17 pm
Operator : anthonyo
Sample : jd91339-13
Misc : op55822,e3e5817,30.4,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown acid	14.741	4.9	ppm	182831	14	14.393	1501750	40.0
unknown	15.431	26.9	ppm	1011760	14	14.393	1501750	40.0
unknown acid	15.757	9.0	ppm	234273	15	16.527	1038490	40.0
unknown alcohol	16.099	18.7	ppm	484514	15	16.527	1038490	40.0
alkane	16.377	36.4	ppm	943924	15	16.527	1038490	40.0
unknown acid	16.720	4.3	ppm	110592	15	16.527	1038490	40.0
unknown alcohol	17.078	25.1	ppm	651874	15	16.527	1038490	40.0
alkane	17.378	50.8	ppm	1317810	15	16.527	1038490	40.0
unknown alcohol	17.436	16.8	ppm	437019	15	16.527	1038490	40.0
unknown	17.500	6.4	ppm	166406	15	16.527	1038490	40.0
unknown alcohol	18.287	24.8	ppm	643163	15	16.527	1038490	40.0
unknown	18.453	21.9	ppm	567949	15	16.527	1038490	40.0
Stigmasterol	18.522	5.7	ppm	148410	15	16.527	1038490	40.0
unknown alcohol	18.758	15.0	ppm	390050	15	16.527	1038490	40.0
Sitosterol	18.971	25.6	ppm	664695	15	16.527	1038490	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14 Inst : GCMS3E
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 04 09:00:59 2024
Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
QLast Update : Thu Jul 04 08:55:56 2024
Response via : Initial Calibration

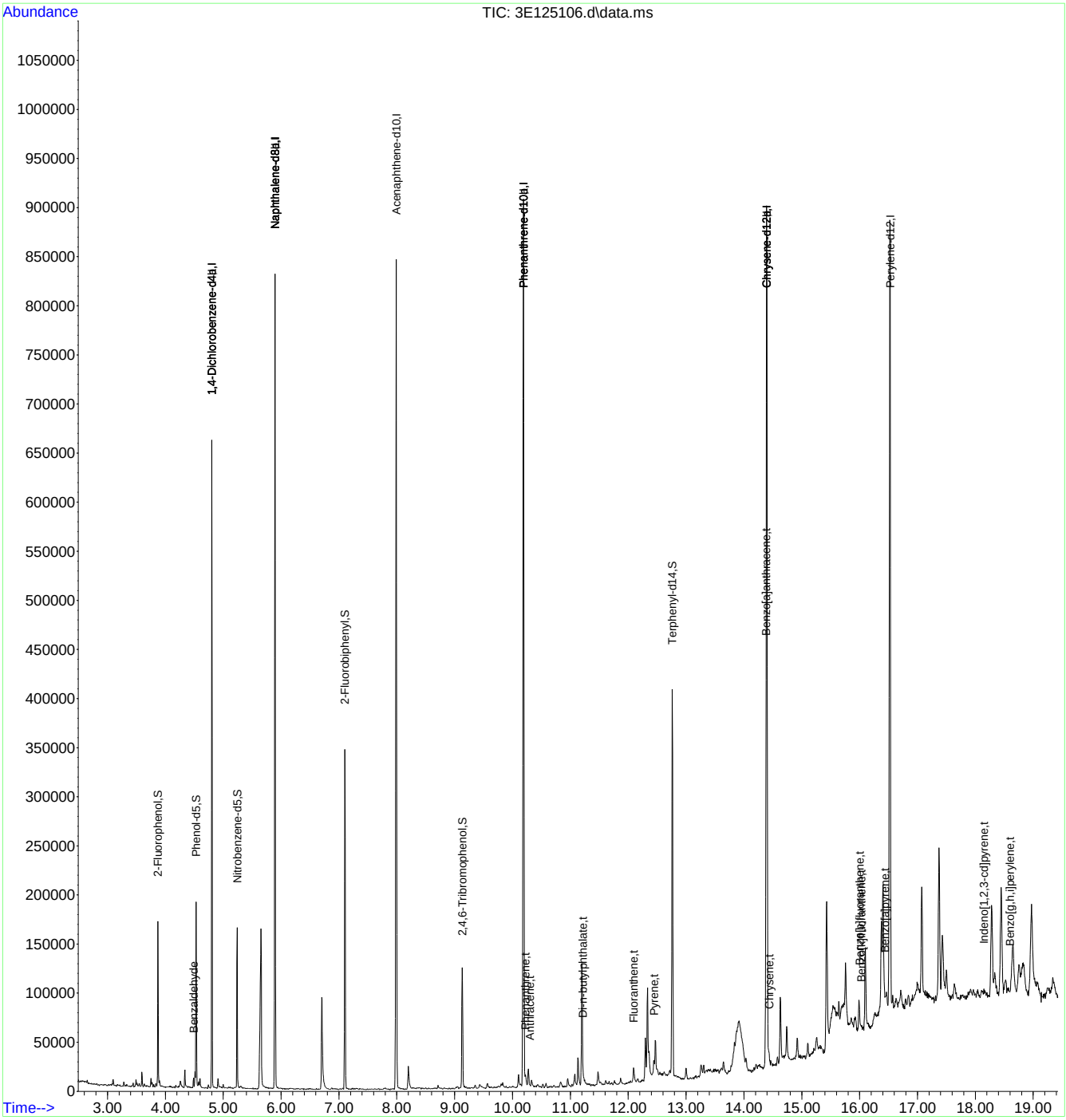
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.803	152	75292	40.00	ppm	0.00
24) Naphthalene-d8	5.894	136	325324	40.00	ppm	0.00
46) Acenaphthene-d10	7.990	164	194385	40.00	ppm	0.00
69) Phenanthrene-d10	10.189	188	396258	40.00	ppm	0.00
84) Chrysene-d12	14.393	240	320643	40.00	ppm	0.00
93) Perylene-d12	16.527	264	357831	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.803	152	75292	40.00	ppm	0.00
105) Phenanthrene-d10a	10.189	188	396258	40.00	ppm	0.00
107) Naphthalene-d8a	5.894	136	325324	40.00	ppm	0.00
109) Phenanthrene-d10b	10.189	188	396258	40.00	ppm	0.00
112) Chrysene-d12a	14.393	240	320643	40.00	ppm	0.00
114) Naphthalene-d8b	5.894	136	325324	40.00	ppm	0.00
117) Naphthalene-d8c	5.894	136	325324	40.00	ppm	0.00
119) Chrysene-d12b	14.393	240	320643	40.00	ppm	0.00
121) 1,4-Dichlorobenzene-d4b	4.803	152	75292	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.872	112	32998	13.76	ppm	0.00
Spiked Amount 50.000			Recovery =	27.52%		
8) Phenol-d5	4.530	99	46032	15.25	ppm	0.00
Spiked Amount 50.000			Recovery =	30.50%		
25) Nitrobenzene-d5	5.241	82	43037	15.91	ppm	0.00
Spiked Amount 50.000			Recovery =	31.82%		
51) 2-Fluorobiphenyl	7.103	172	106040	16.83	ppm	0.00
Spiked Amount 50.000			Recovery =	33.66%		
74) 2,4,6-Tribromophenol	9.135	330	14899	17.93	ppm	0.00
Spiked Amount 50.000			Recovery =	35.86%		
87) Terphenyl-d14	12.761	244	145785	17.90	ppm	0.00
Spiked Amount 50.000			Recovery =	35.80%		
110) 1-chlorooctadecane	0.000	56	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
78) Phenanthrene	10.226	178	3118	0.3099	ppm	90
79) Anthracene	10.301	178	435	0.0437	ppm	79
81) Di-n-butylphthalate	11.216	149	2755	0.2349	ppm	97
82) Fluoranthene	12.093	202	6722	0.6645	ppm	94
86) Pyrene	12.446	202	6595	0.6018	ppm	94
89) Benzo[a]anthracene	14.382	228	3966	0.3897	ppm	93
91) Chrysene	14.436	228	3355	0.3410	ppm	89
95) Benzo[b]fluoranthene	15.997	252	5000	0.4775	ppm	97
96) Benzo[k]fluoranthene	16.029	252	1473	0.1436	ppm	69
97) Benzo[a]pyrene	16.436	252	3501	0.3921	ppm	81
98) Indeno[1,2,3-cd]pyrene	18.148	276	2686	0.3035	ppm	87
102) Benzo[g,h,i]perylene	18.602	276	2633	0.3155	ppm	77
104) Benzaldehyde	4.487	105	1309	0.5380	ppm	94

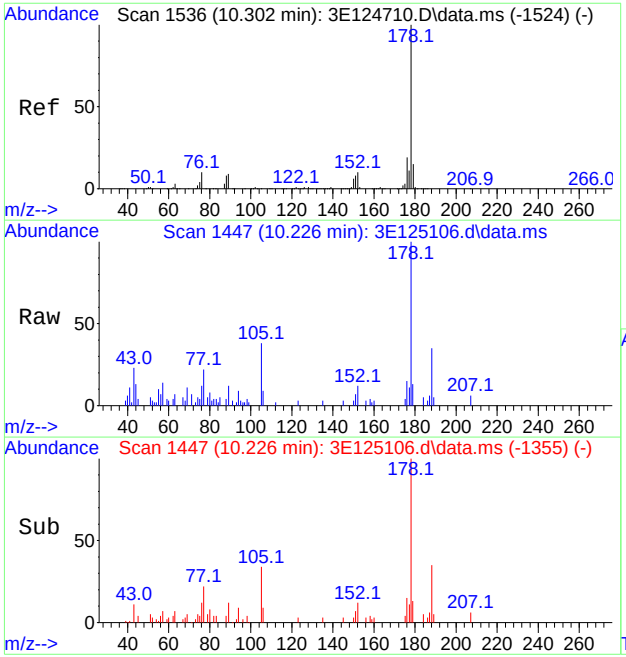
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14 Inst : GCMS3E
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 04 09:00:59 2024
Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
QLast Update : Thu Jul 04 08:55:56 2024
Response via : Initial Calibration

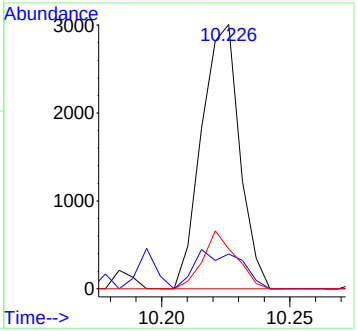


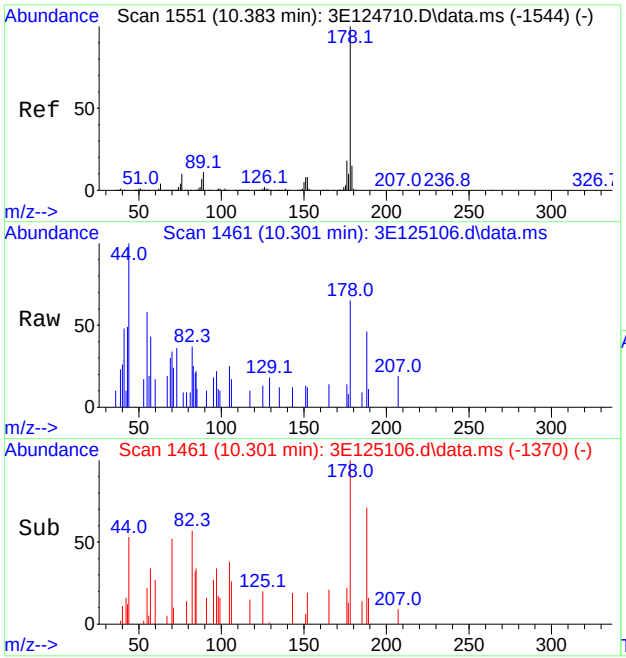


#78
Phenanthrene
Concen: 0.3099 ppm
RT: 10.226 min Scan# 1447
Delta R.T. -0.005 min
Lab File: 3E125106.d
Acq: 3 Jul 2024 2:43 pm

Tgt Ion:178 Resp: 3118

Ion	Ratio	Lower	Upper
178	100		
179	10.8	0.0	45.4
176	15.1	0.0	48.8

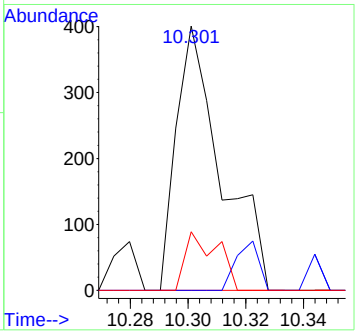


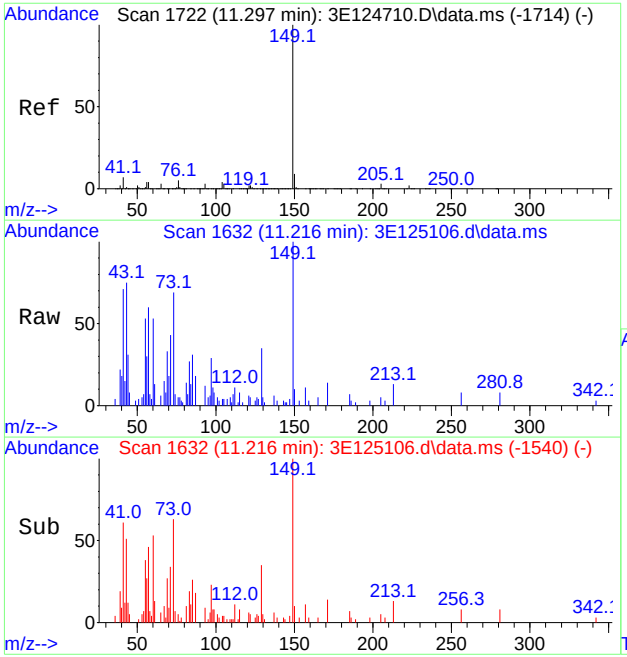


#79
Anthracene
Concen: 0.0437 ppm
RT: 10.301 min Scan# 1461
Delta R.T. -0.011 min
Lab File: 3E125106.d
Acq: 3 Jul 2024 2:43 pm

Tgt Ion:178 Resp: 435

Ion	Ratio	Lower	Upper
178	100		
179	0.0	0.0	45.4
176	22.2	0.0	48.9

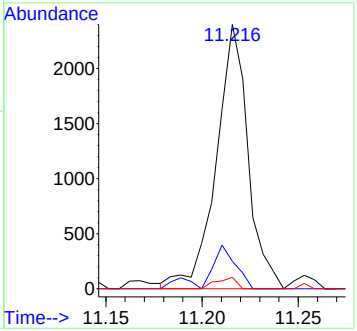


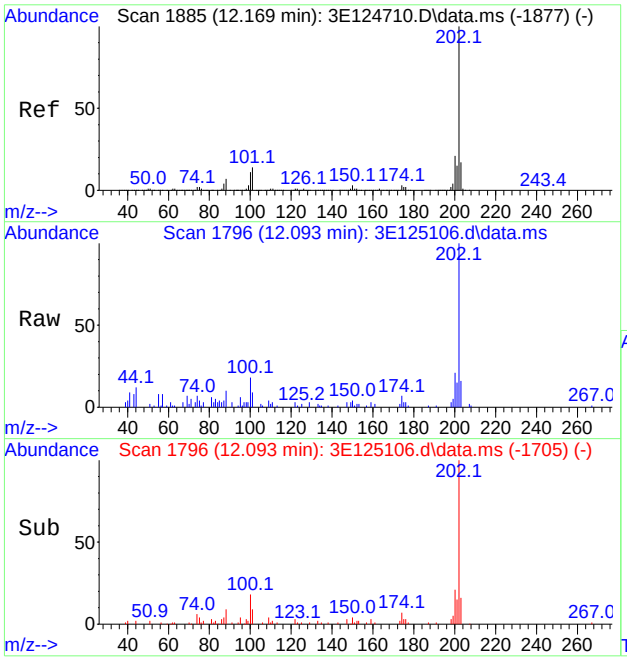


#81
Di-n-butylphthalate
Concen: 0.2349 ppm
RT: 11.216 min Scan# 1632
Delta R.T. -0.005 min
Lab File: 3E125106.d
Acq: 3 Jul 2024 2:43 pm

Tgt Ion:149 Resp: 2755

Ion	Ratio	Lower	Upper
149	100		
150	10.5	0.0	38.9
104	4.4	0.0	34.7

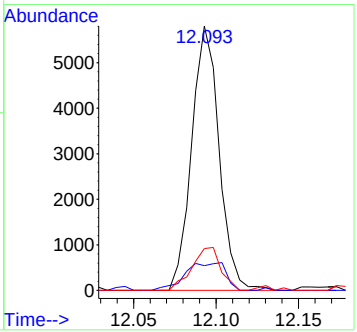


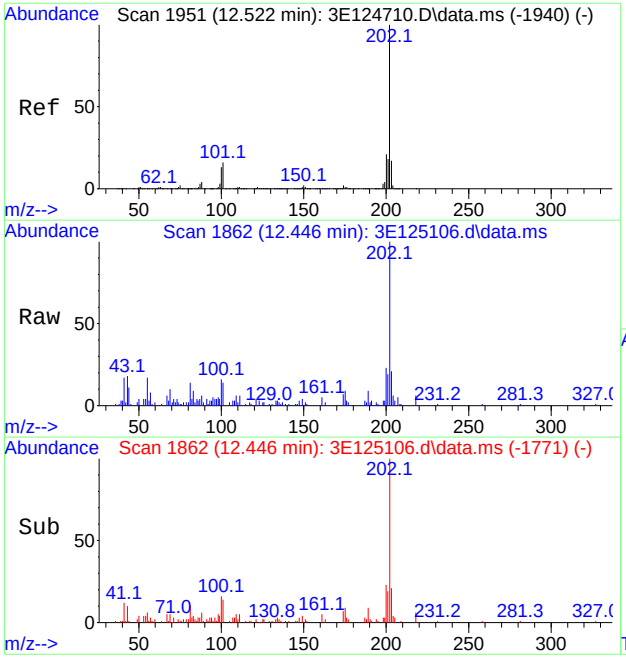


#82
Fluoranthene
Concen: 0.6645 ppm
RT: 12.093 min Scan# 1796
Delta R.T. -0.011 min
Lab File: 3E125106.d
Acq: 3 Jul 2024 2:43 pm

Tgt Ion:202 Resp: 6722

Ion	Ratio	Lower	Upper
202	100		
101	8.9	0.0	42.9
203	15.4	0.0	46.9

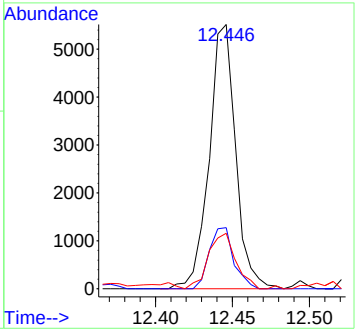


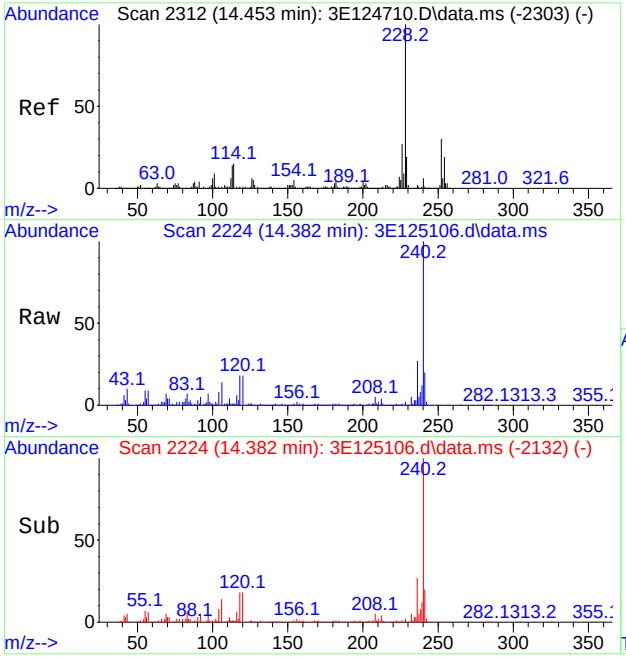


#86
Pyrene
Concen: 0.6018 ppm
RT: 12.446 min Scan# 1862
Delta R.T. -0.011 min
Lab File: 3E125106.d
Acq: 3 Jul 2024 2:43 pm

Tgt Ion:202 Resp: 6595

Ion	Ratio	Lower	Upper
202	100		
200	23.1	0.0	50.4
203	20.3	0.0	47.4

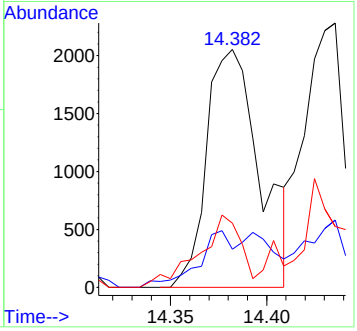


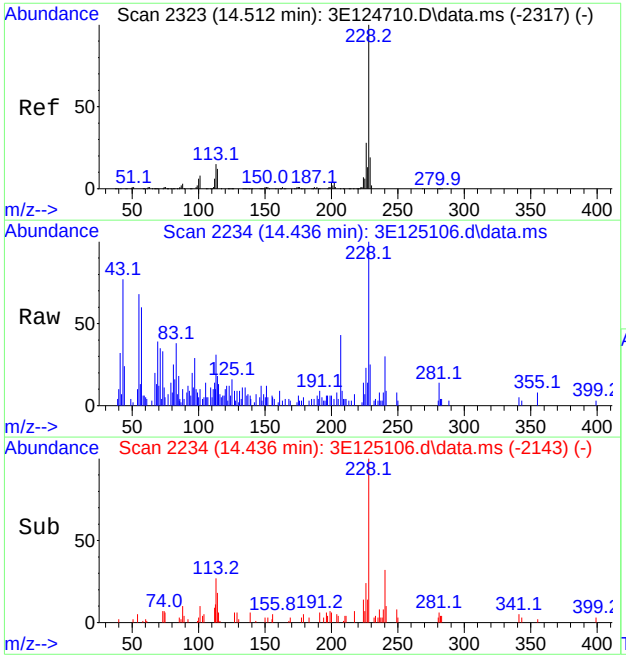


#89
Benzo[a]anthracene
Concen: 0.3897 ppm
RT: 14.382 min Scan# 2224
Delta R.T. -0.005 min
Lab File: 3E125106.d
Acq: 3 Jul 2024 2:43 pm

Tgt Ion:228 Resp: 3966

Ion	Ratio	Lower	Upper
228	100		
229	12.1	0.0	48.7
226	27.2	0.0	56.6

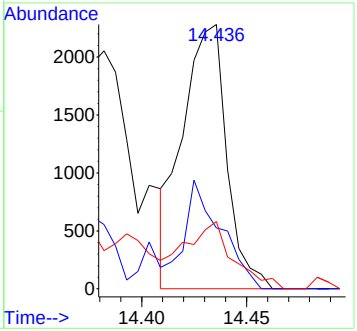


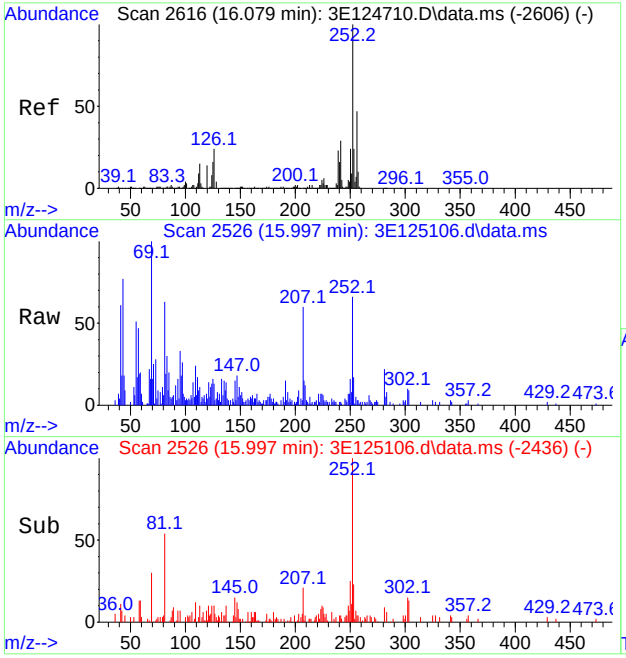


#91
Chrysene
Concen: 0.3410 ppm
RT: 14.436 min Scan# 2234
Delta R.T. -0.011 min
Lab File: 3E125106.d
Acq: 3 Jul 2024 2:43 pm

Tgt Ion:228 Resp: 3355

Ion	Ratio	Lower	Upper
228	100		
226	25.0	0.0	59.4
229	26.6	0.0	49.1

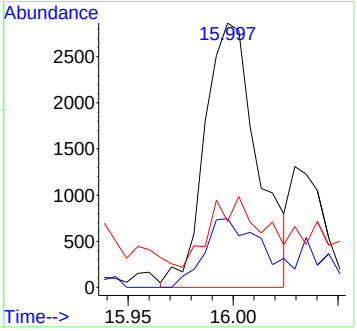


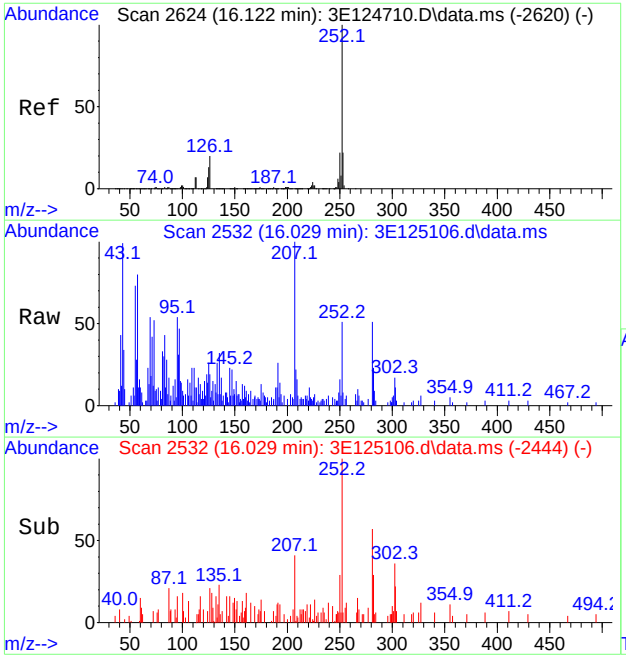


#95
Benzo[b]fluoranthene
Concen: 0.4775 ppm
RT: 15.997 min Scan# 2526
Delta R.T. -0.016 min
Lab File: 3E125106.d
Acq: 3 Jul 2024 2:43 pm

Tgt Ion:252 Resp: 5000

Ion	Ratio	Lower	Upper
252	100		
253	24.1	0.0	53.9
125	13.1	0.0	46.1

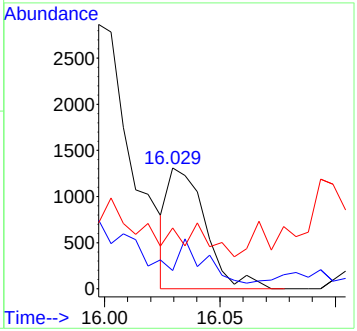


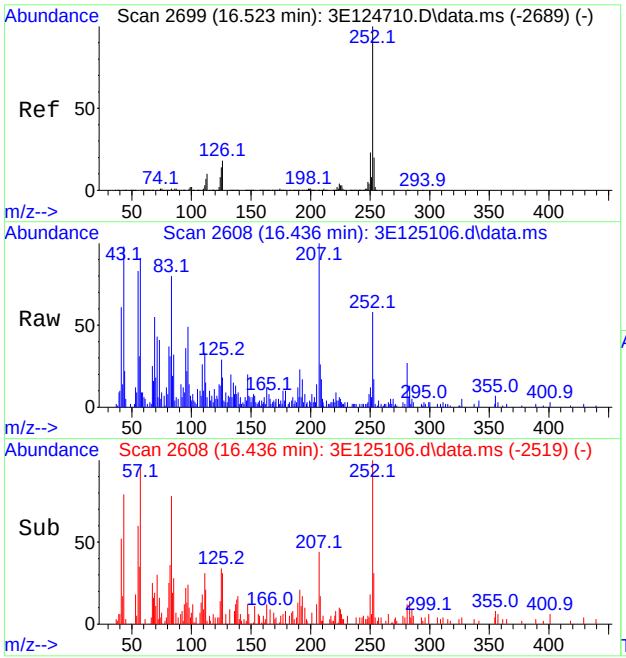


#96
Benzo[k]fluoranthene
Concen: 0.1436 ppm
RT: 16.029 min Scan# 2532
Delta R.T. -0.027 min
Lab File: 3E125106.d
Acq: 3 Jul 2024 2:43 pm

Tgt Ion:252 Resp: 1473

Ion	Ratio	Lower	Upper
252	100		
253	0.0	0.0	51.0
125	9.9	0.0	42.6

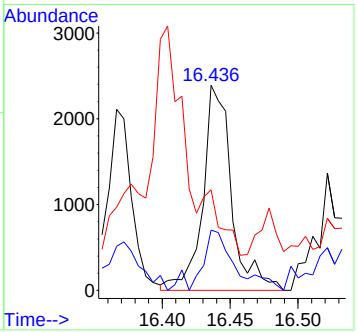


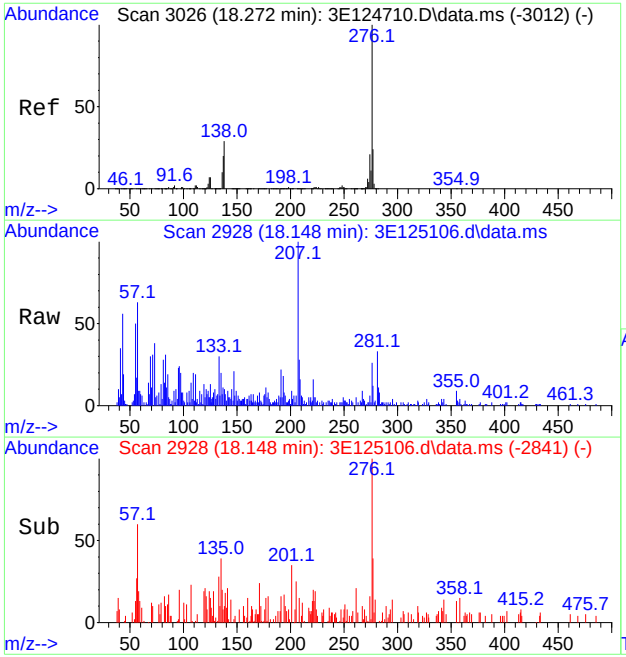


#97
Benzo[a]pyrene
Concen: 0.3921 ppm
RT: 16.436 min Scan# 2608
Delta R.T. -0.021 min
Lab File: 3E125106.d
Acq: 3 Jul 2024 2:43 pm

Tgt Ion:252 Resp: 3501

Ion	Ratio	Lower	Upper
252	100		
253	26.1	0.0	51.2
125	0.0	0.0	43.3

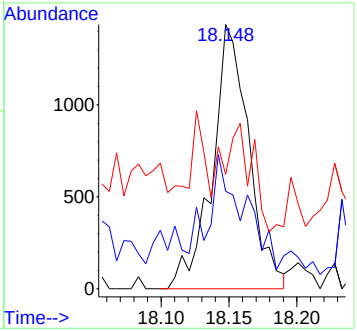


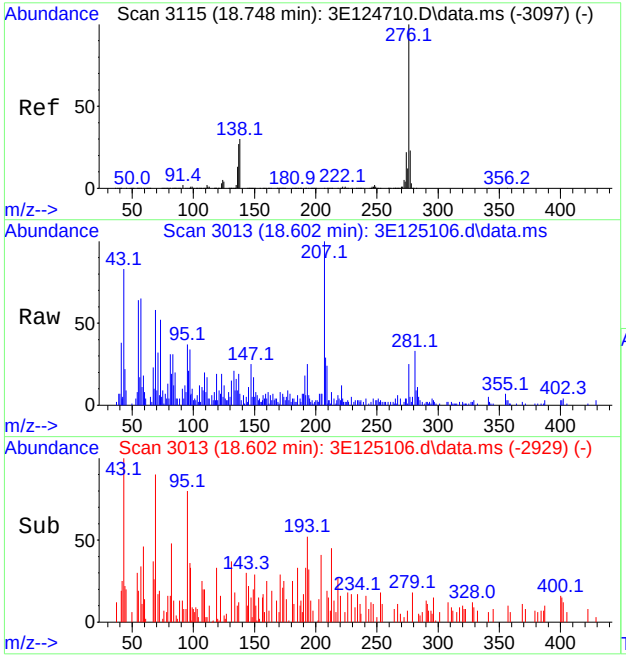


#98
Indeno[1,2,3-cd]pyrene
Concen: 0.3035 ppm
RT: 18.148 min Scan# 2928
Delta R.T. -0.032 min
Lab File: 3E125106.d
Acq: 3 Jul 2024 2:43 pm

Tgt Ion:276 Resp: 2686

Ion	Ratio	Lower	Upper
276	100		
138	20.2	0.0	51.6
137	8.1	0.0	49.0

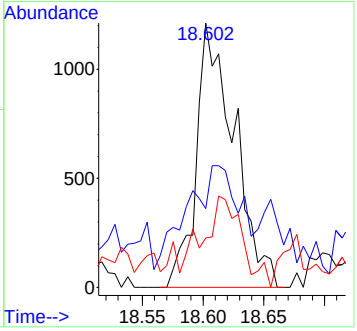


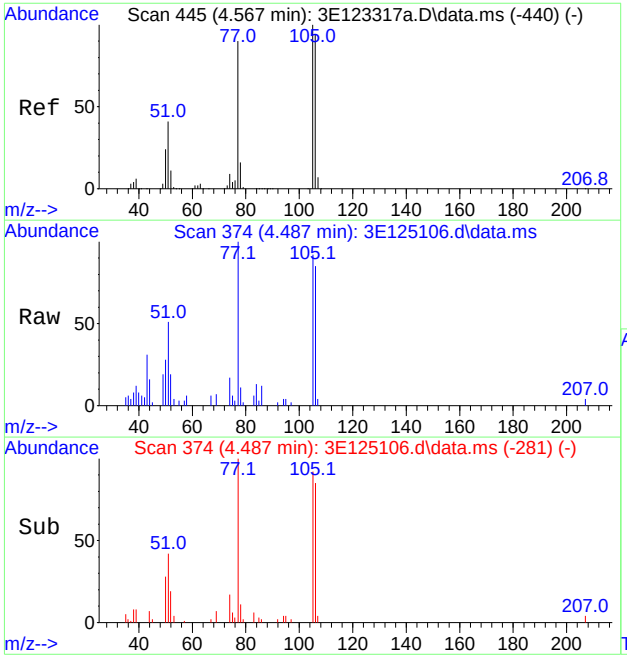


#102
Benzo[g,h,i]perylene
Concen: 0.3155 ppm
RT: 18.602 min Scan# 3013
Delta R.T. -0.048 min
Lab File: 3E125106.d
Acq: 3 Jul 2024 2:43 pm

Tgt Ion:276 Resp: 2633

Ion	Ratio	Lower	Upper
276	100		
138	16.9	0.0	56.8
277	9.7	0.0	52.9

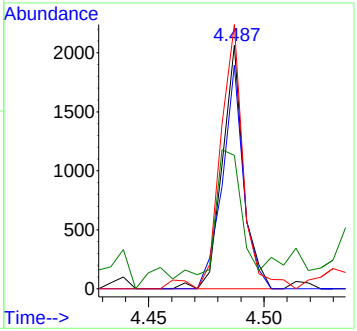




#104
Benzaldehyde
Concen: 0.5380 ppm
RT: 4.487 min Scan# 374
Delta R.T. -0.000 min
Lab File: 3E125106.d
Acq: 3 Jul 2024 2:43 pm

Tgt Ion:105 Resp: 1309

Ion	Ratio	Lower	Upper
105	100		
106	91.9	65.1	125.1
77	106.8	66.2	126.2
51	45.6	15.5	75.5



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 40 Area counts
Start Thrs: 0.05 Max Peaks: 100
Stop Thrs : 0.001 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

Signal : TIC: 3E125106.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.594	202	207	211	rVB2	15359	12857	1.08%	0.117%
2	3.637	211	215	221	rBV3	3418	4560	0.38%	0.041%
3	3.749	233	236	239	rBV	8881	7904	0.67%	0.072%
4	3.835	250	252	255	rBV3	3659	3268	0.28%	0.030%
5	3.872	255	259	268	rVB	168328	119303	10.06%	1.086%
6	4.257	327	331	343	rVB3	6995	11757	0.99%	0.107%
7	4.337	343	346	355	rBV	18231	16302	1.37%	0.148%
8	4.487	369	374	376	rVV	10331	7527	0.63%	0.068%
9	4.530	376	382	388	rVV	189445	147038	12.40%	1.338%
10	4.578	388	391	392	rVV3	6200	5528	0.47%	0.050%
11	4.599	392	395	411	rVB	10050	12525	1.06%	0.114%
12	4.744	419	422	428	rBV	4033	5046	0.43%	0.046%
13	4.803	428	433	440	rBV	660219	446272	37.63%	4.061%
14	4.910	450	453	457	rBV2	10001	8954	0.75%	0.081%
15	4.942	457	459	467	rVV5	2112	3805	0.32%	0.035%
16	5.001	467	470	475	rVV	4136	3956	0.33%	0.036%
17	5.241	509	515	523	rVV	163686	130110	10.97%	1.184%
18	5.305	523	527	535	rVB6	2405	4412	0.37%	0.040%
19	5.653	580	592	607	rBV	163631	261121	22.02%	2.376%
20	5.894	629	637	644	rBV	829945	660215	55.66%	6.008%
21	6.701	780	788	806	rBV	93690	136441	11.50%	1.242%
22	7.103	858	863	878	rVV	346331	316648	26.70%	2.881%
23	7.990	1022	1029	1043	rVV	845789	847275	71.44%	7.710%
24	8.199	1061	1068	1079	rBV	23805	37545	3.17%	0.342%
25	8.381	1100	1102	1110	rVB8	1901	3618	0.31%	0.033%
26	8.713	1160	1164	1172	rBV8	3954	5238	0.44%	0.048%
27	9.050	1224	1227	1231	rVB5	2403	3533	0.30%	0.032%
28	9.130	1236	1242	1248	rBV2	122624	139966	11.80%	1.274%
29	9.354	1277	1284	1290	rVB9	3611	5226	0.44%	0.048%
30	9.435	1290	1299	1304	rBV9	3915	8620	0.73%	0.078%
31	9.568	1317	1324	1330	rBV10	5578	10522	0.89%	0.096%
32	9.756	1353	1359	1363	rVV9	2038	3970	0.33%	0.036%
33	9.804	1363	1368	1370	rVV5	4045	5333	0.45%	0.049%
34	9.830	1370	1373	1382	rVV5	5383	7350	0.62%	0.067%
35	9.953	1389	1396	1400	rBV9	1712	3152	0.27%	0.029%
36	10.103	1417	1424	1429	rBV7	13402	18817	1.59%	0.171%
37	10.146	1430	1432	1434	rVV3	3513	3387	0.29%	0.031%
38	10.189	1434	1440	1452	rVV	904861	1010963	85.24%	9.200%
39	10.274	1452	1456	1463	rVV5	18572	25371	2.14%	0.231%
40	10.328	1463	1466	1474	rVV8	7187	10532	0.89%	0.096%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 40 Area counts
Start Thrs: 0.05 Max Peaks: 100
Stop Thrs : 0.001 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

41	10.435	1482	1486	1493	rBV9	2645	5072	0.43%	0.046%
42	10.520	1499	1502	1507	rVB7	4023	5834	0.49%	0.053%
43	10.579	1507	1513	1518	rVB7	5066	7496	0.63%	0.068%
44	10.718	1534	1539	1544	rVB9	2238	3603	0.30%	0.033%
45	10.831	1555	1560	1568	rVB9	5744	11460	0.97%	0.104%
46	10.954	1579	1583	1594	rBV9	8508	13929	1.17%	0.127%
47	11.077	1599	1606	1612	rBV6	12389	18895	1.59%	0.172%
48	11.130	1612	1616	1624	rVV3	28021	37951	3.20%	0.345%
49	11.200	1624	1629	1646	rVV2	124104	162874	13.73%	1.482%
50	11.478	1672	1681	1687	rBV6	13919	24026	2.03%	0.219%
51	11.612	1701	1706	1714	rBV6	4101	6984	0.59%	0.064%
52	11.670	1714	1717	1720	rVB5	3475	3155	0.27%	0.029%
53	11.761	1730	1734	1742	rBV10	4588	7697	0.65%	0.070%
54	11.868	1746	1754	1768	rVB10	6692	12604	1.06%	0.115%
55	12.093	1790	1796	1805	rBV2	15224	24349	2.05%	0.222%
56	12.162	1805	1809	1815	rVB9	3541	5390	0.45%	0.049%
57	12.243	1818	1824	1826	rBV7	2879	4451	0.38%	0.041%
58	12.296	1829	1834	1837	rBV3	44406	56245	4.74%	0.512%
59	12.334	1837	1841	1855	rVV	90127	145190	12.24%	1.321%
60	12.441	1856	1861	1864	rVV	15633	23839	2.01%	0.217%
61	12.467	1864	1866	1877	rVB2	35232	51493	4.34%	0.469%
62	12.622	1891	1895	1900	rVB8	3820	5719	0.48%	0.052%
63	12.719	1909	1913	1916	rBV6	4698	6134	0.52%	0.056%
64	12.761	1916	1921	1927	rVB	393979	444562	37.48%	4.045%
65	13.002	1959	1966	1971	rBV10	11566	17996	1.52%	0.164%
66	13.173	1991	1998	2000	rBV7	3763	6607	0.56%	0.060%
67	13.259	2009	2014	2019	rBV7	11614	21212	1.79%	0.193%
68	13.307	2019	2023	2026	rVB5	8398	10317	0.87%	0.094%
69	13.612	2073	2080	2083	rBV9	5383	11766	0.99%	0.107%
70	13.644	2084	2086	2098	rVB9	12652	22572	1.90%	0.205%
71	13.837	2108	2122	2124	rVV8	30565	77840	6.56%	0.708%
72	13.917	2124	2137	2156	rVV8	51825	367347	30.97%	3.343%
73	14.034	2157	2159	2167	rVB9	13246	19505	1.64%	0.177%
74	14.174	2182	2185	2187	rVV4	4256	4154	0.35%	0.038%
75	14.211	2188	2192	2196	rVV6	5359	8709	0.73%	0.079%
76	14.393	2218	2226	2238	rBV	877631	1186066	100.00%	10.793%
77	14.580	2258	2261	2265	rBV6	7846	8548	0.72%	0.078%
78	14.628	2265	2270	2277	rBV	67954	102812	8.67%	0.936%
79	14.740	2286	2291	2304	rVB4	34046	54929	4.63%	0.500%
80	14.922	2321	2325	2330	rVB3	19996	27187	2.29%	0.247%
81	15.104	2355	2359	2364	rVB8	13816	18424	1.55%	0.168%
82	15.259	2383	2388	2393	rBV7	12464	20492	1.73%	0.186%
83	15.430	2413	2420	2428	rBV2	154168	278757	23.50%	2.537%
84	15.537	2431	2440	2451	rVV2	28564	142193	11.99%	1.294%
85	15.639	2457	2459	2463	rVB4	18424	20181	1.70%	0.184%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 40 Area counts
Start Thrs: 0.05 Max Peaks: 100
Stop Thrs : 0.001 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

86	15.757	2477	2481	2489	rVB2	63364	103466	8.72%	0.942%
87	15.987	2520	2524	2535	rBV4	30900	49739	4.19%	0.453%
88	16.099	2540	2545	2561	rBV2	84678	135267	11.40%	1.231%
89	16.377	2592	2597	2599	rBV2	87518	114851	9.68%	1.045%
90	16.404	2599	2602	2610	rVB3	117315	165906	13.99%	1.510%
91	16.522	2617	2624	2630	rBV	800122	1044424	88.06%	9.504%
92	17.072	2722	2727	2737	rVB3	110263	165201	13.93%	1.503%
93	17.372	2777	2783	2789	rBV2	150215	237271	20.00%	2.159%
94	17.431	2789	2794	2803	rVV6	61888	139305	11.75%	1.268%
95	17.500	2804	2807	2815	rVB9	27471	41842	3.53%	0.381%
96	18.281	2946	2953	2959	rBV3	93502	190101	16.03%	1.730%
97	18.447	2977	2984	2991	rVB5	108101	211948	17.87%	1.929%
98	18.650	3014	3022	3033	rVB7	48322	130357	10.99%	1.186%
99	18.752	3037	3041	3046	rBV8	19659	37990	3.20%	0.346%
100	18.971	3074	3082	3098	rBV8	86435	228850	19.29%	2.083%

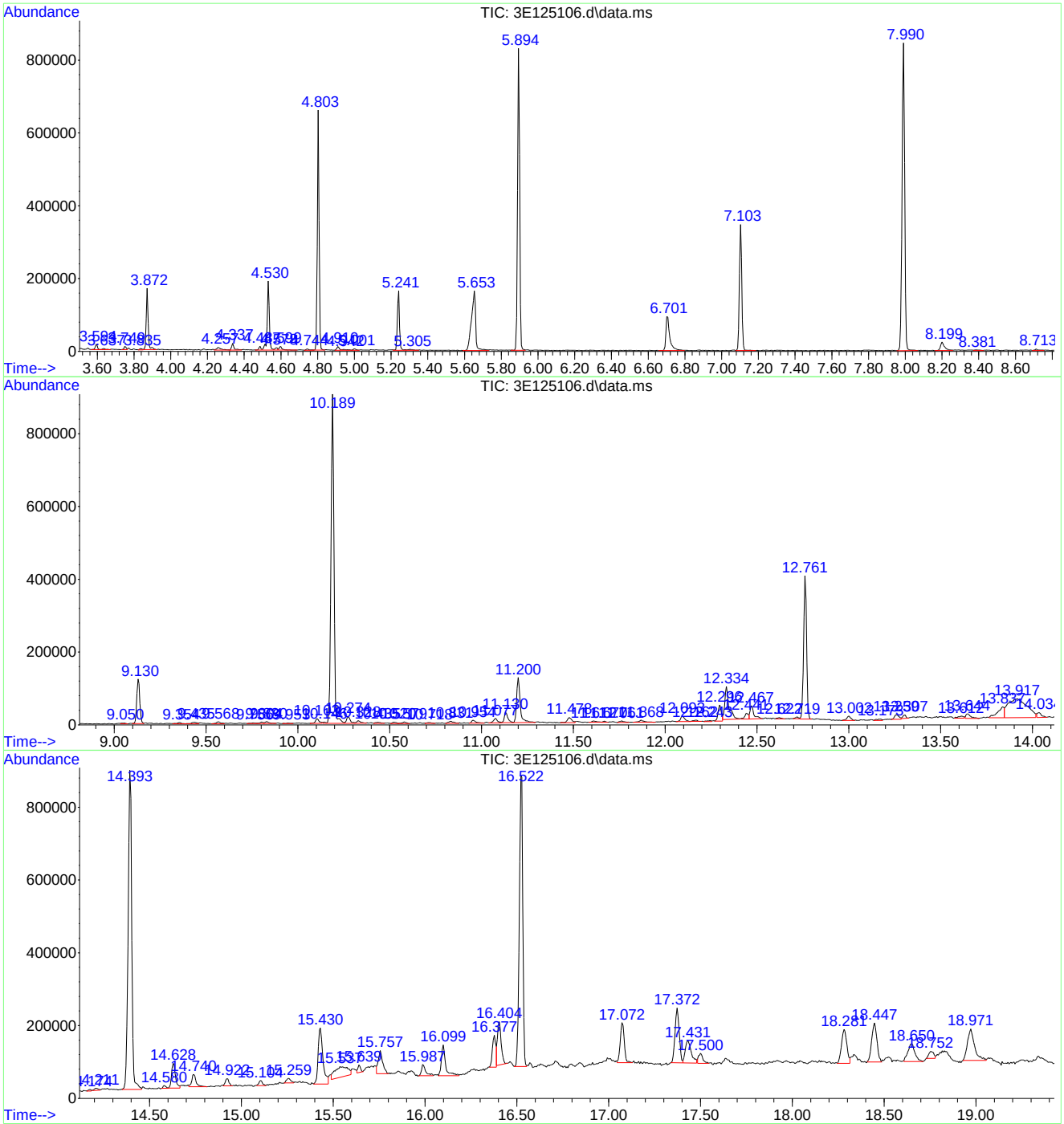
Sum of corrected areas: 10989051

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

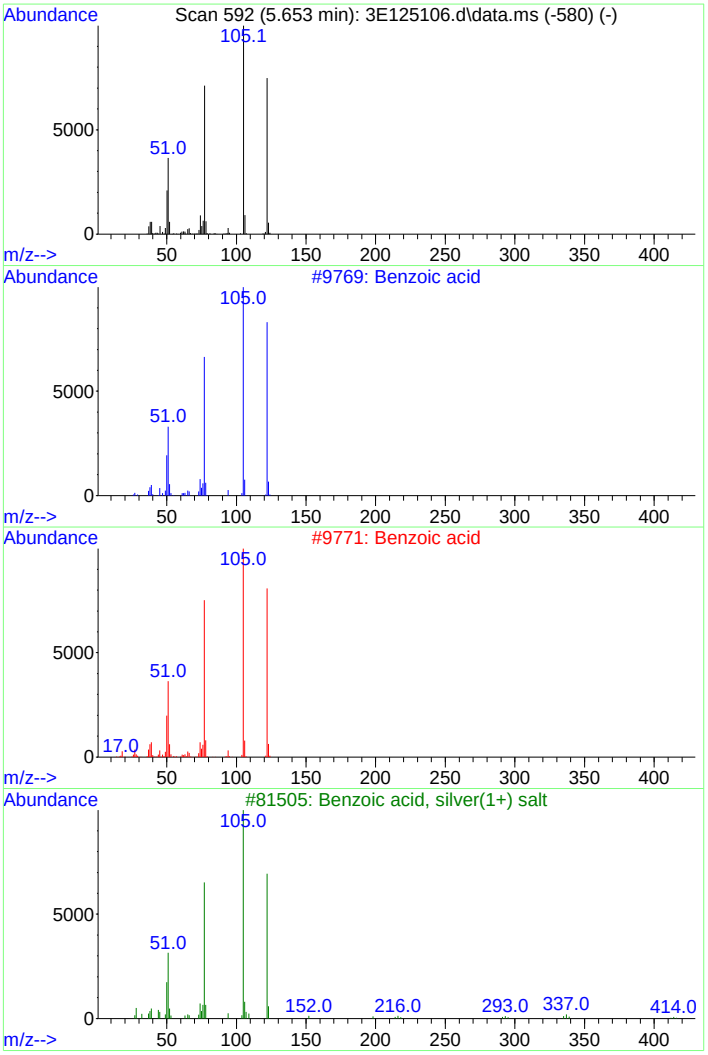
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

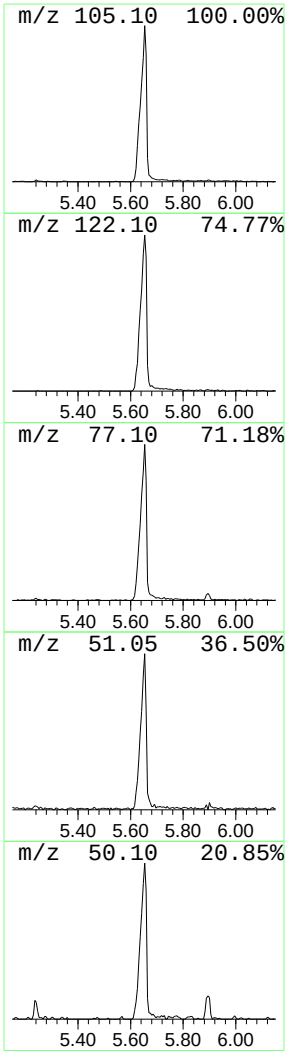
****

Peak Number 1 Benzoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.653	15.82 ppm	261121	Naphthalene-d8	5.894

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzoic acid	122	C7H6O2	000065-85-0	97
2	Benzoic acid	122	C7H6O2	000065-85-0	96
3	Benzoic acid, silver(1+) salt	228	C7H5AgO2	000532-31-0	90
4	2,4-Dinitrophennylhydrazone of r...	746	C39H30N4O12	1000129-02-7	64
5	Benzoic acid	122	C7H6O2	000065-85-0	59





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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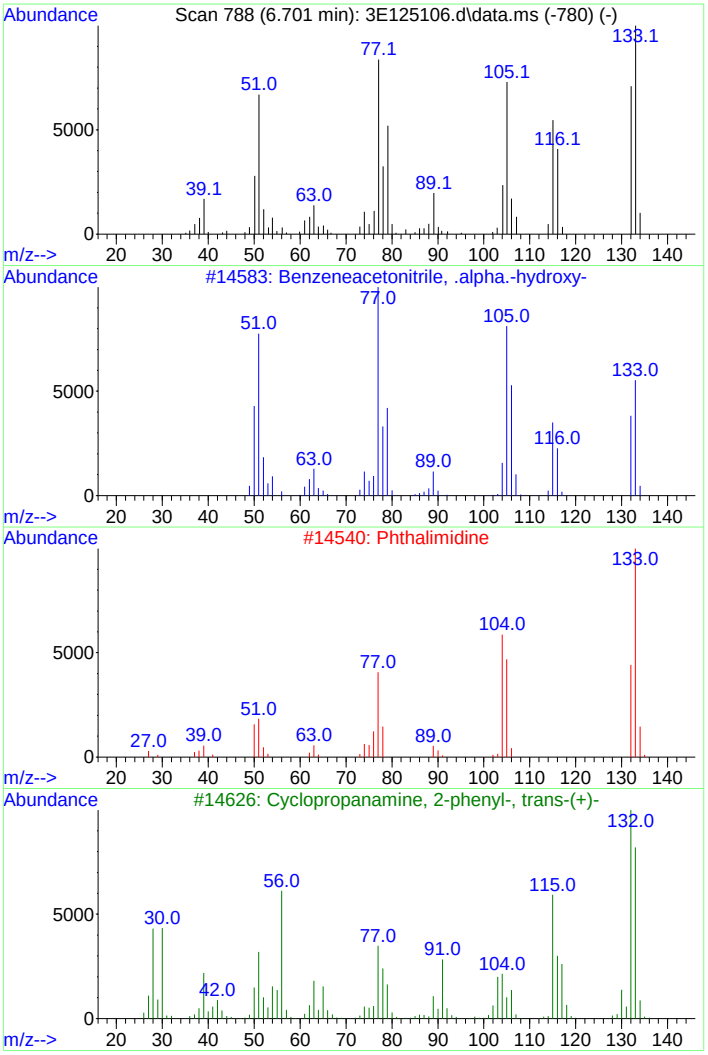
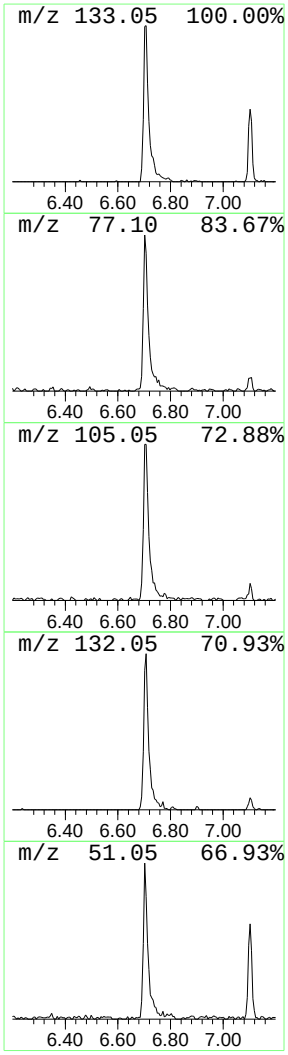
Peak Number 2 unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.701	8.27 ppm	136441	Naphthalene-d8c	5.894

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzeneacetonitrile, .alpha.-hyd...	133	C8H7NO	000532-28-5	72
2	Phthalimidine	133	C8H7NO	000480-91-1	47
3	Cyclopropanamine, 2-phenyl-, tra...	133	C9H11N	003721-28-6	43
4	Benzeneacetonitrile, 4-hydroxy-	133	C8H7NO	014191-95-8	43
5	Cyclopropanamine, 2-phenyl-, tra...	133	C9H11N	000155-09-9	43





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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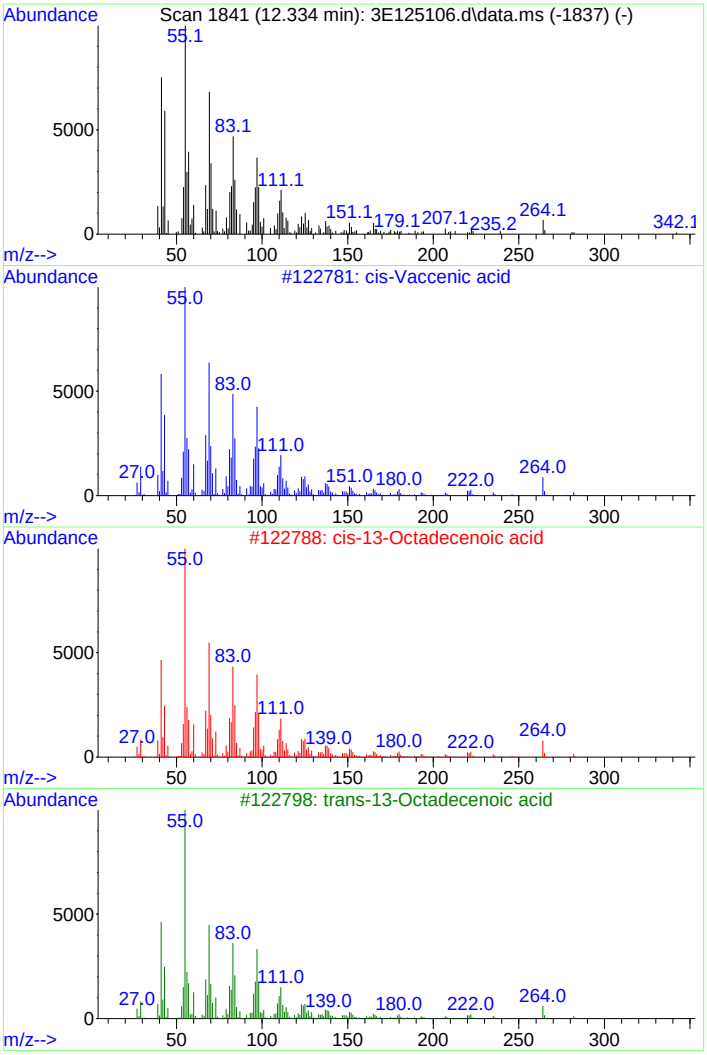
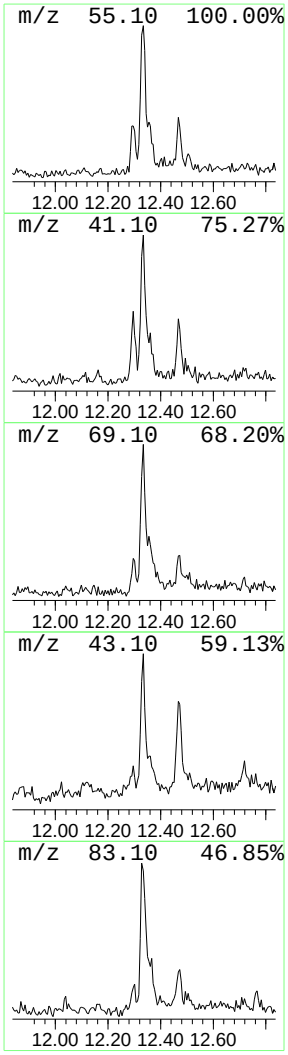
Peak Number 3 unknown acid Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.334	4.90 ppm	145190	Chrysene-d12	14.393

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	cis-Vaccenic acid	282	C18H34O2	000506-17-2	99
2	cis-13-Octadecenoic acid	282	C18H34O2	013126-39-1	94
3	trans-13-Octadecenoic acid	282	C18H34O2	000693-71-0	94
4	Oleic Acid	282	C18H34O2	000112-80-1	94
5	9-Octadecenoic acid, (E)-	282	C18H34O2	000112-79-8	90





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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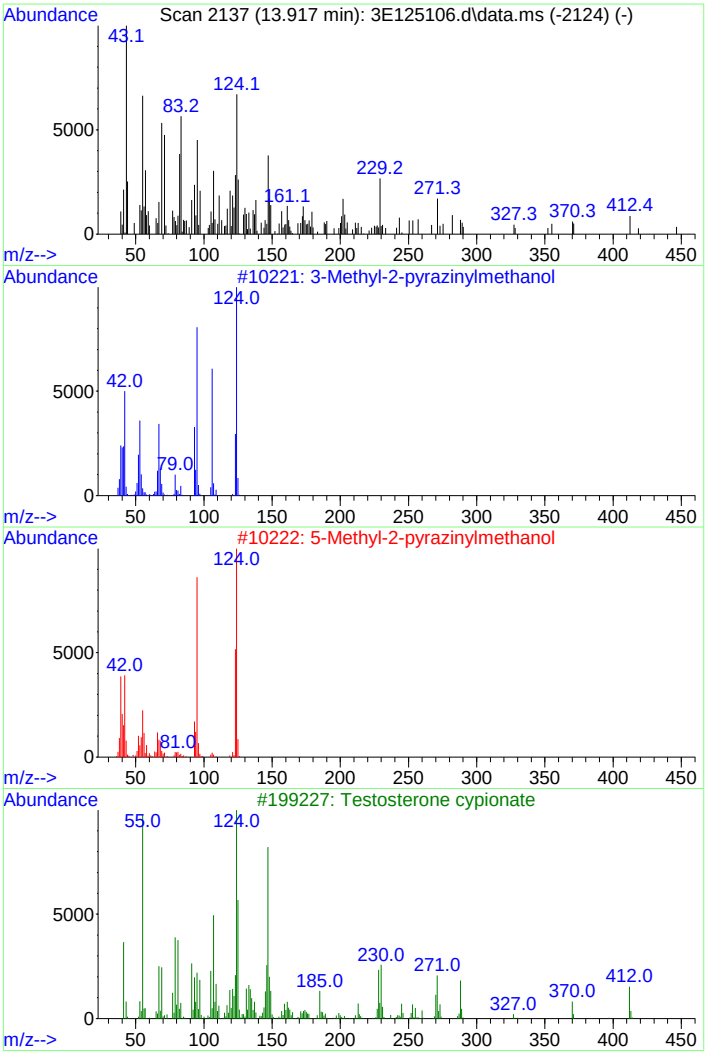
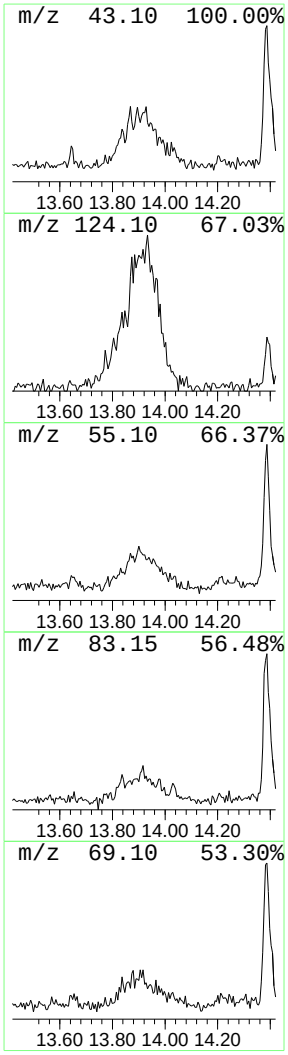
Peak Number 4 unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.917	12.39 ppm	367347	Chrysene-d12	14.393

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methyl-2-pyrazinylmethanol	124	C6H8N2O	160818-32-6	43
2	5-Methyl-2-pyrazinylmethanol	124	C6H8N2O	061892-95-3	38
3	Testosterone cypionate	412	C27H40O3	000058-20-8	38
4	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	35
5	4H-Pyran-4-one, 2,6-dimethyl-	124	C7H8O2	001004-36-0	30





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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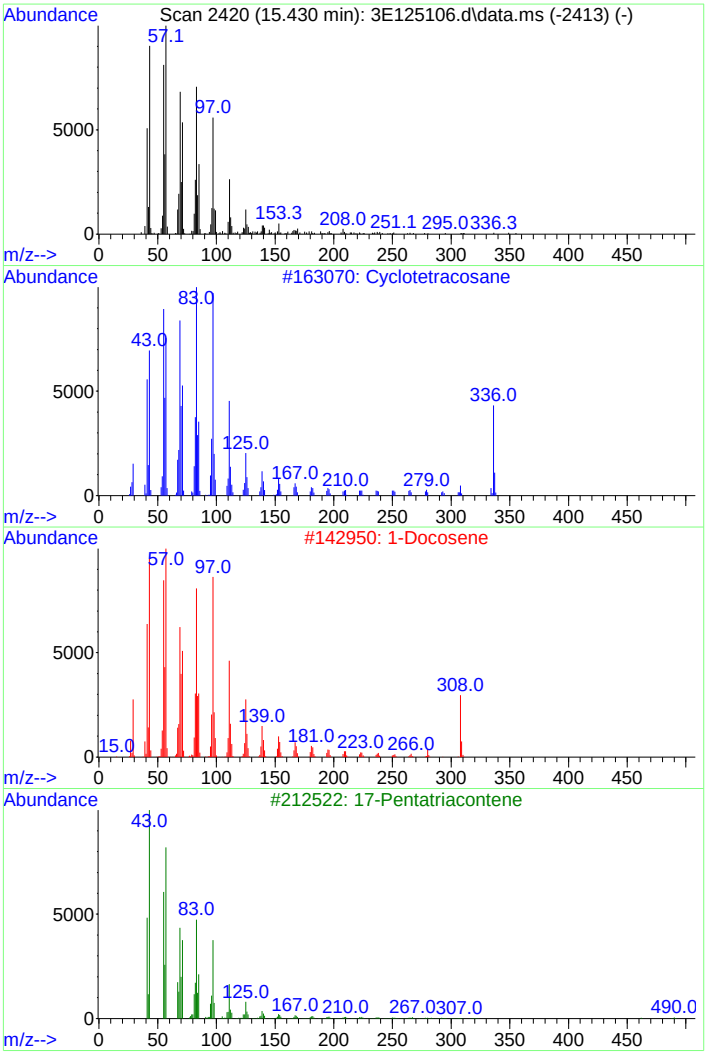
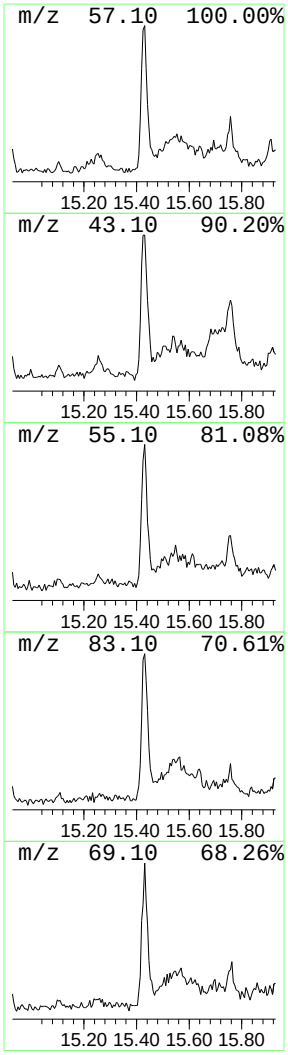
Peak Number 5 unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.430	9.40 ppm	278757	Chrysene-d12b	14.393

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetracosane	336	C24H48	000297-03-0	97
2	1-Docosene	308	C22H44	001599-67-3	95
3	17-Pentatriacontene	491	C35H70	006971-40-0	91
4	Octadecyl pentafluoropropionate	416	C21H37F5O2	1000351-80-7	91
5	Hexadecyl heptafluorobutyrate	438	C20H33F7O2	1000351-82-7	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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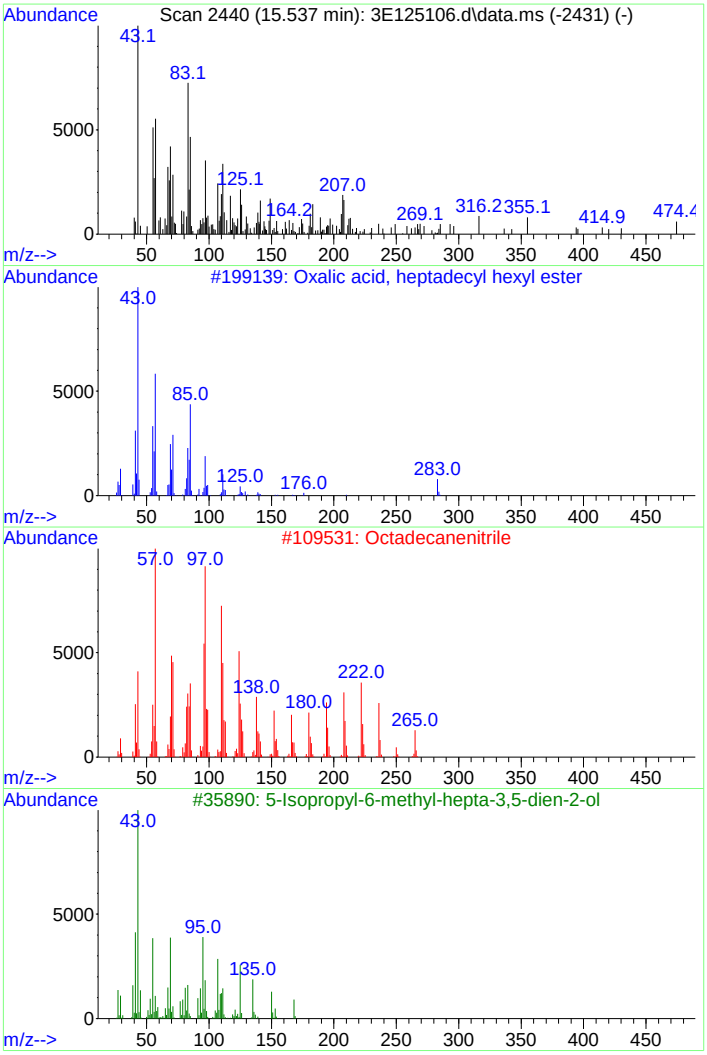
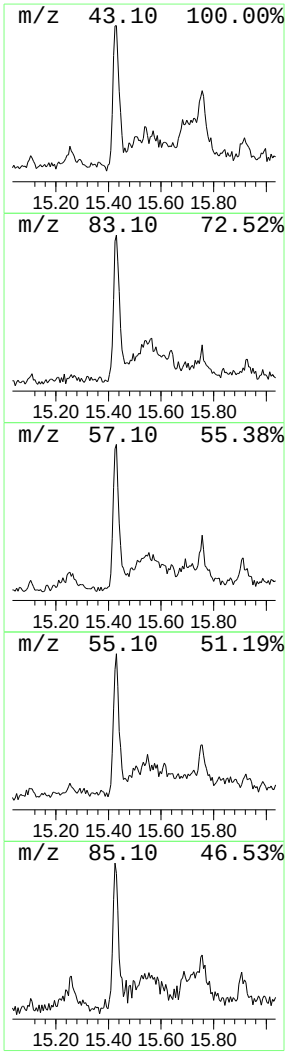
Peak Number 6 unknown Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.537	5.45 ppm	142193	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxalic acid, heptadecyl hexyl ester	412	C25H48O4	1000309-25-1	38
2	Octadecanenitrile	265	C18H35N	000638-65-3	30
3	5-Isopropyl-6-methyl-hepta-3,5-d...	168	C11H20O	1000187-77-8	30
4	1-Tridecene	182	C13H26	002437-56-1	18
5	Decanoic acid, 10-(2-hexylcyclop...	296	C19H36O2	1000197-99-5	18





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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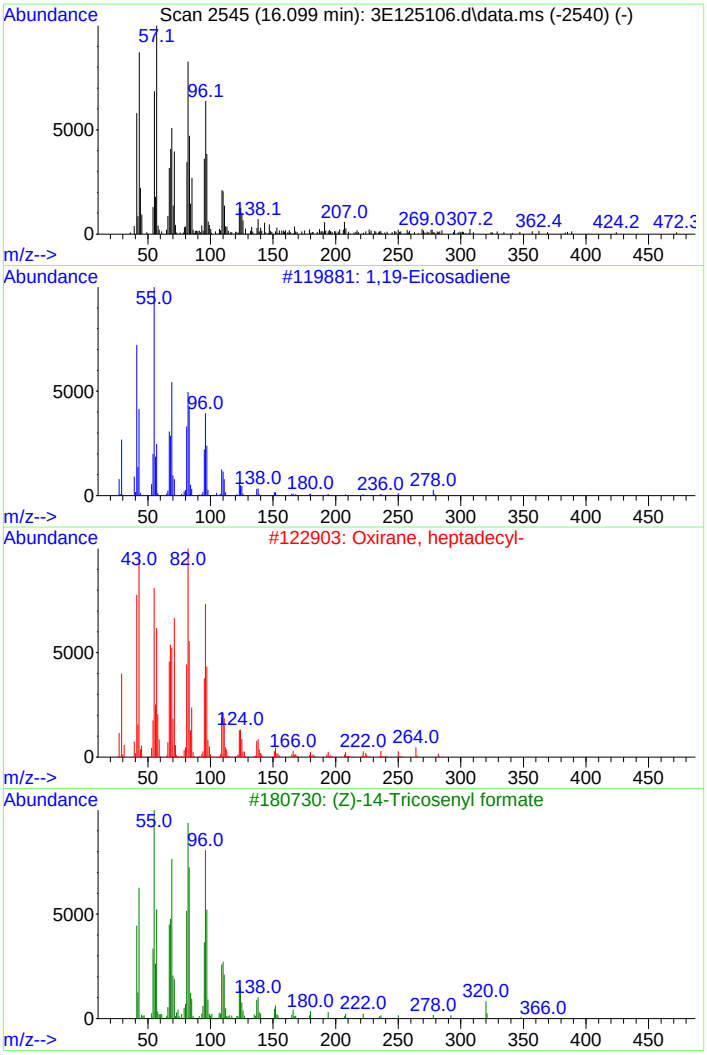
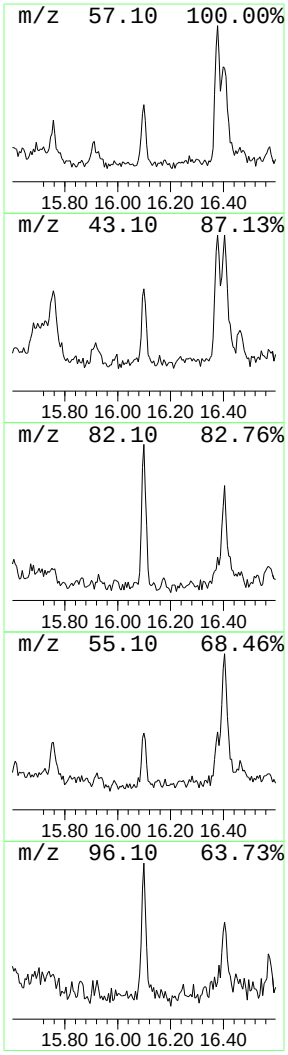
Peak Number 7 unknown alcohol Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.099	5.18 ppm	135267	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,19-Eicosadiene	278	C20H38	014811-95-1	98
2	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	95
3	(Z)-14-Tricosenyl formate	366	C24H46O2	077899-10-6	91
4	Octadecanal	268	C18H36O	000638-66-4	91
5	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

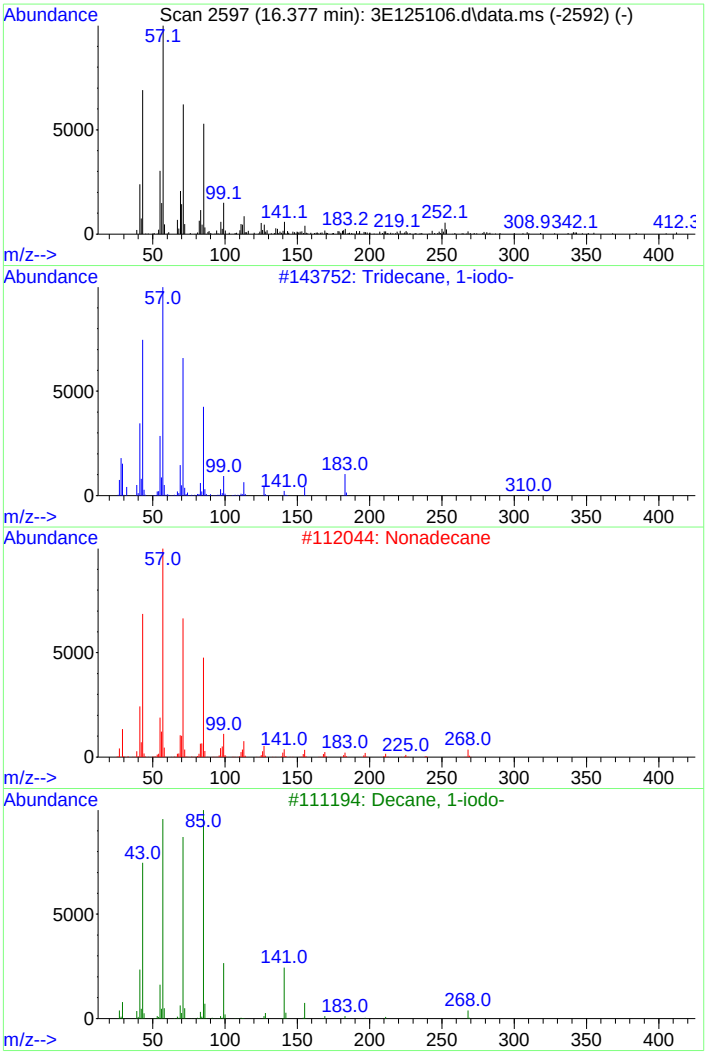
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

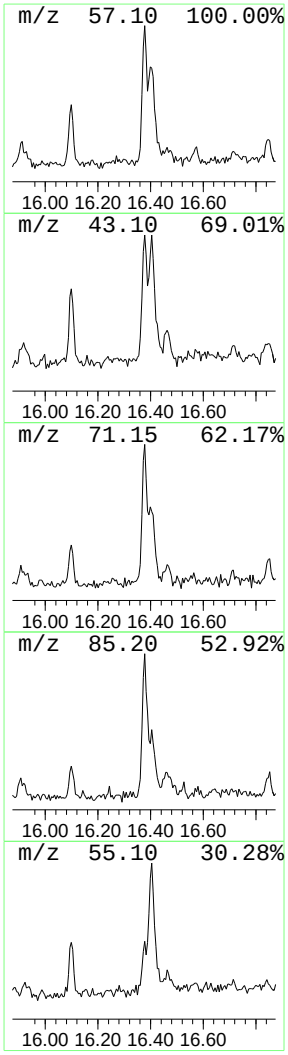
****

Peak Number 8 alkane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.377	4.40 ppm	114851	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	91
2	Nonadecane	268	C19H40	000629-92-5	87
3	Decane, 1-iodo-	268	C10H21I	002050-77-3	83
4	Pentadecane	212	C15H32	000629-62-9	83
5	2-Bromo dodecane	248	C12H25Br	013187-99-0	80





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

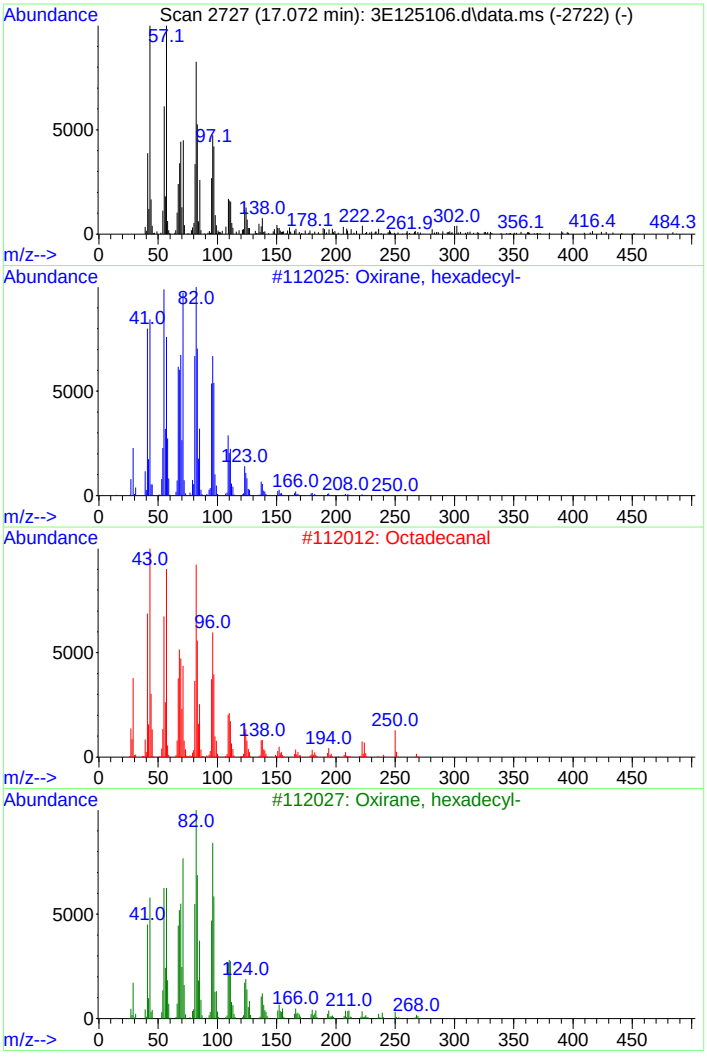
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

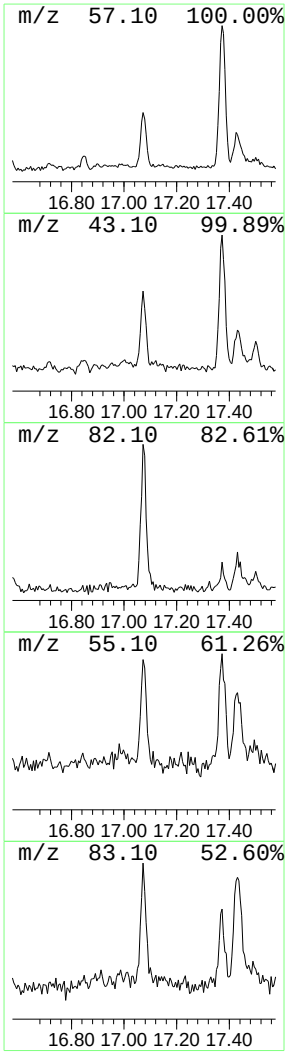
****

Peak Number 9 unknown alcohol Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.073	6.33 ppm	165201	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	87
2	Octadecanal	268	C18H36O	000638-66-4	86
3	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	72
4	2-Octadecyl-propane-1,3-diol	328	C21H44O2	005337-61-1	64
5	Octadecanal	268	C18H36O	000638-66-4	58





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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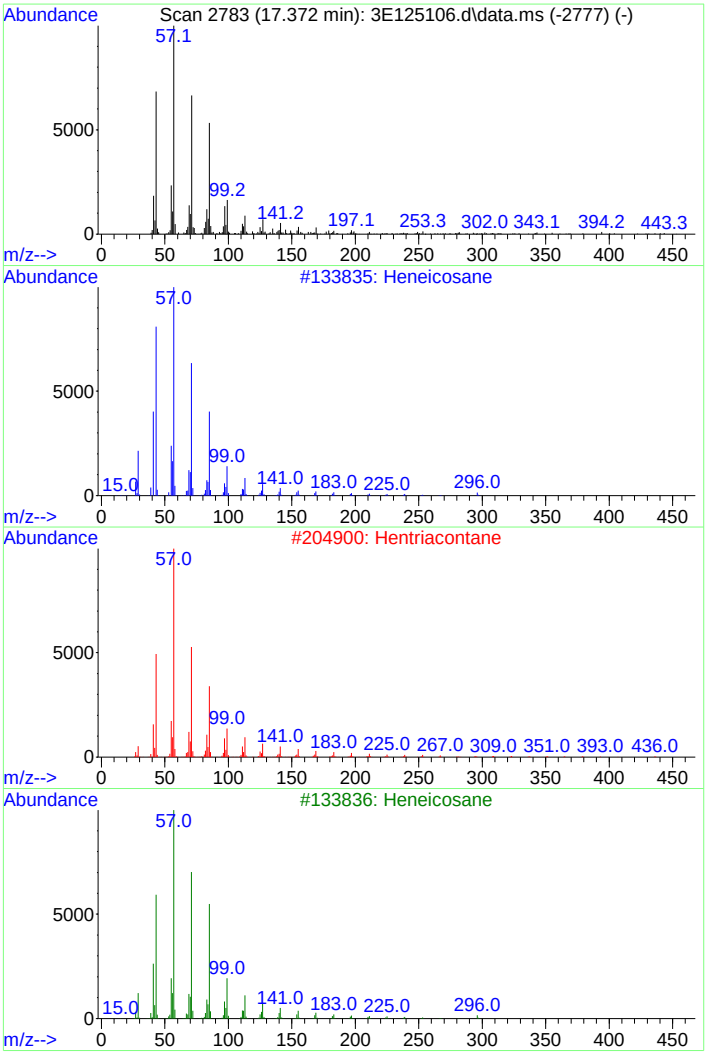
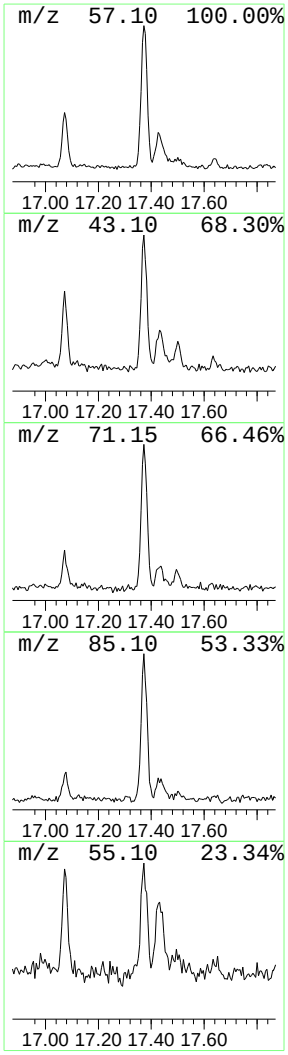
Peak Number 10 alkane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.372	9.09 ppm	237271	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	91
2	Hentriacontane	437	C31H64	000630-04-6	90
3	Heneicosane	296	C21H44	000629-94-7	90
4	Octacosane	394	C28H58	000630-02-4	89
5	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	86





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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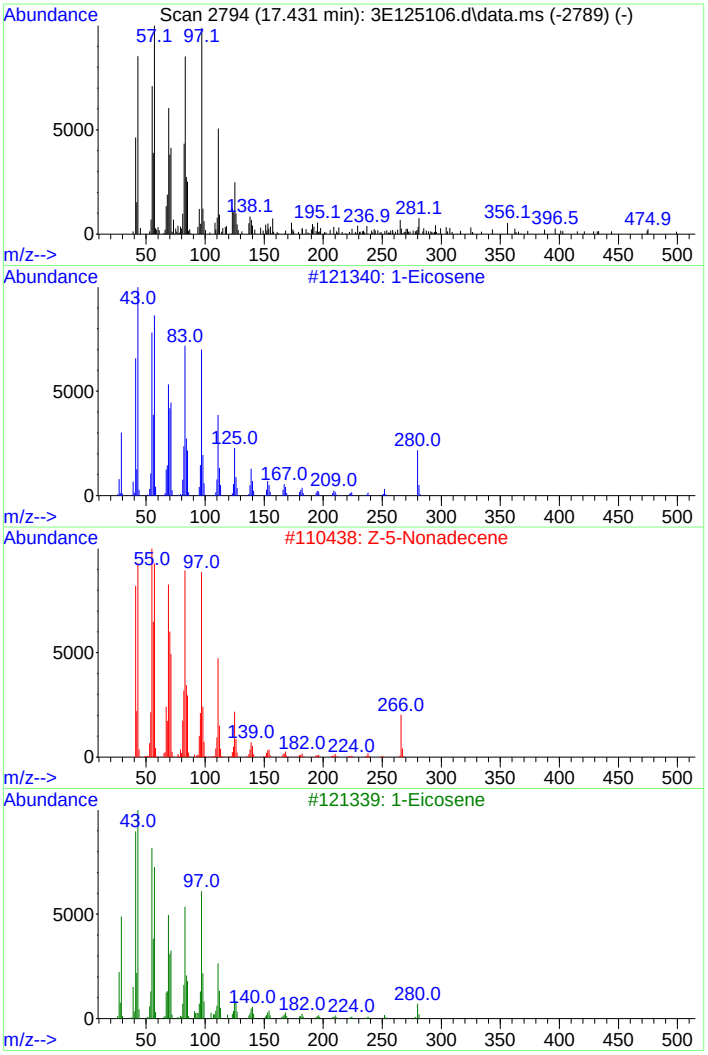
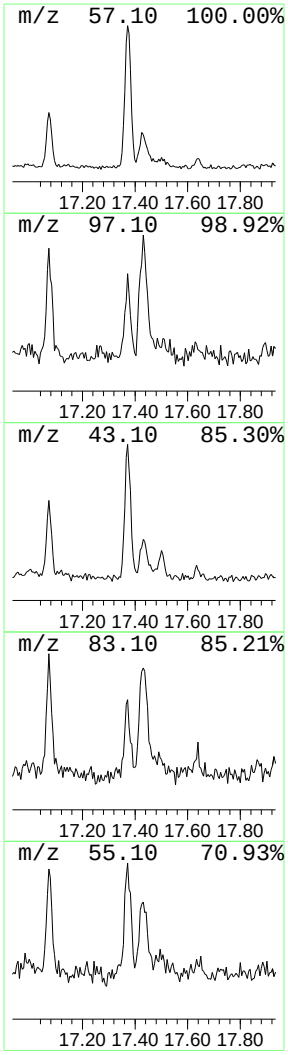
Peak Number 11 alkene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.431	5.34 ppm	139305	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Eicosene	280	C20H40	003452-07-1	94
2	Z-5-Nonadecene	266	C19H38	1000131-11-8	94
3	1-Eicosene	280	C20H40	003452-07-1	93
4	9-Nonadecene	266	C19H38	031035-07-1	91
5	1-Nonadecene	266	C19H38	018435-45-5	91





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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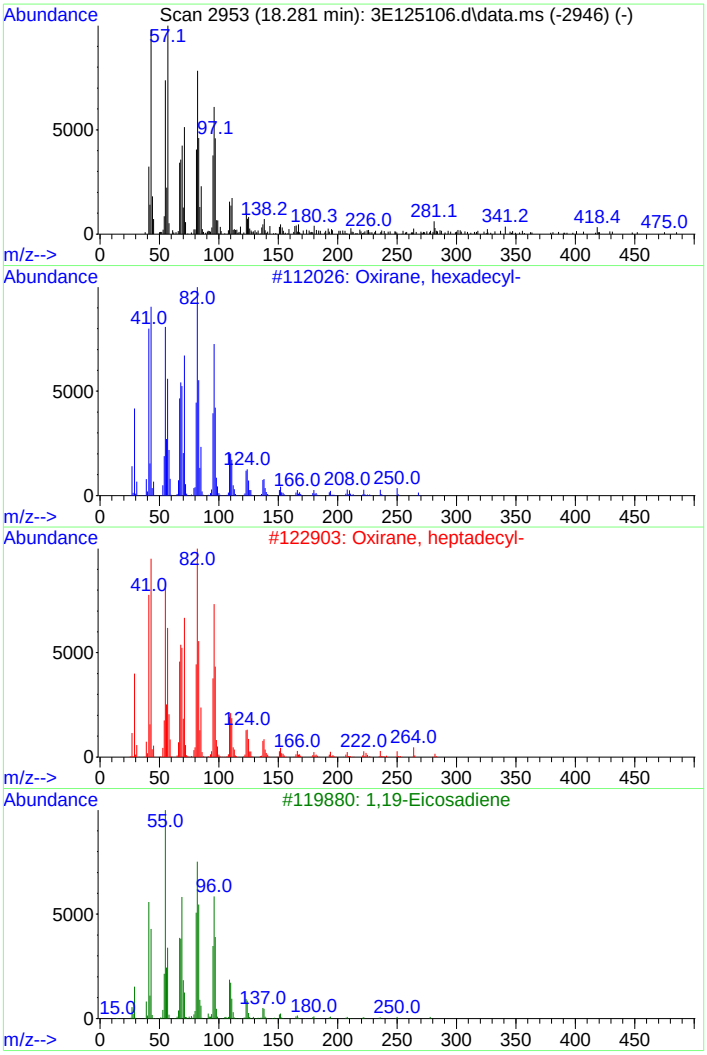
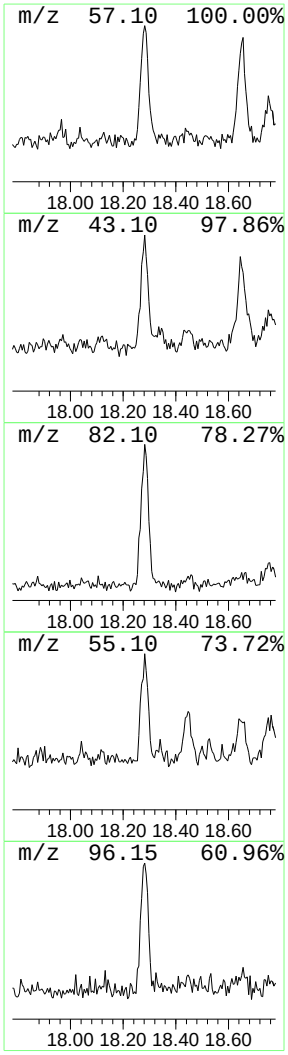
Peak Number 12 unknown alcohol Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.281	7.28 ppm	190101	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	83
2	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	83
3	1,19-Eicosadiene	278	C20H38	014811-95-1	70
4	Octadecanal	268	C18H36O	000638-66-4	68
5	1,16-Hexadecanediol	258	C16H34O2	007735-42-4	62





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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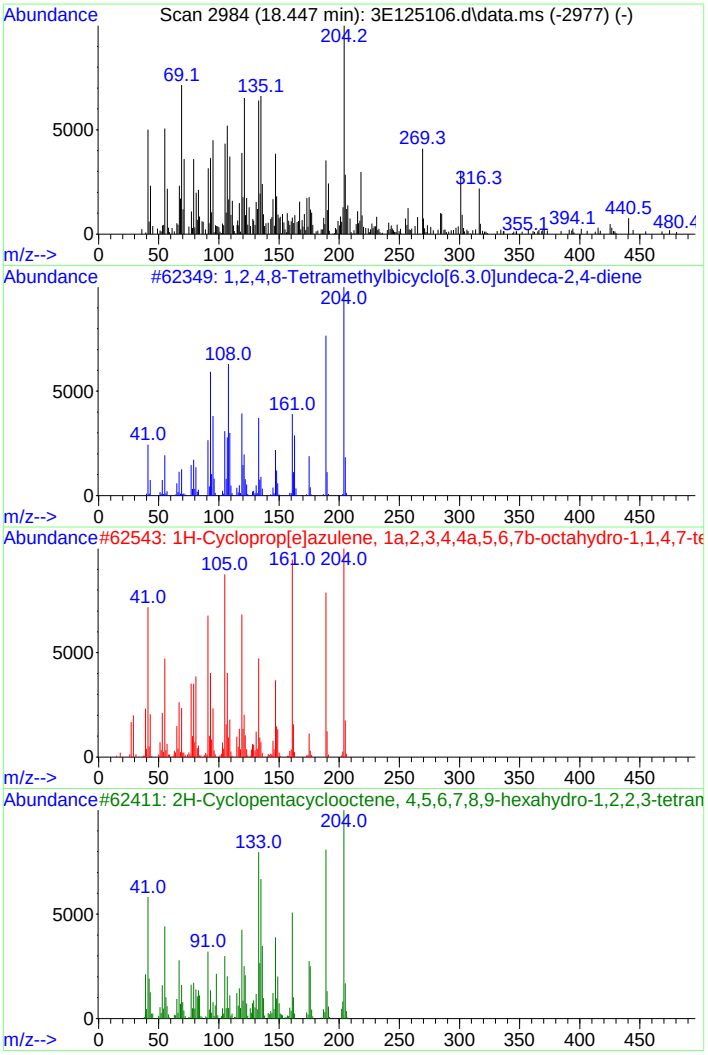
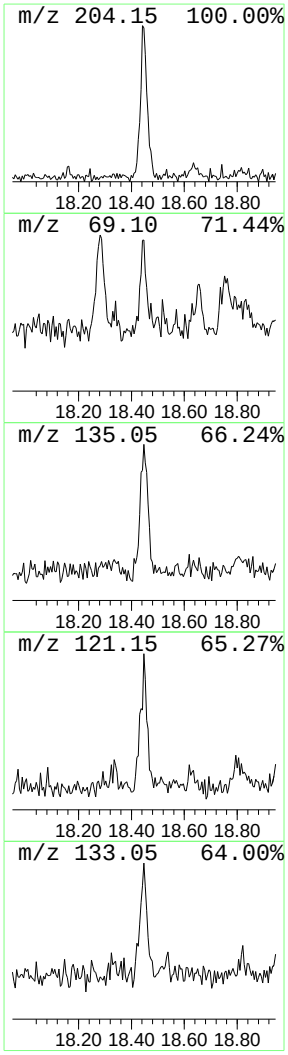
Peak Number 13 unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.447	8.12 ppm	211948	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
2	1H-Cycloprop[e]azulene, 1a,2,3,4...	204	C15H24	000489-40-7	49
3	2H-Cyclopentacyclooctene, 4,5,6,...	204	C15H24	1000221-85-8	47
4	Naphthalene, 1,2,3,5,6,7,8,8a-oc...	204	C15H24	004630-07-3	47
5	5-(2,4-Dichloro-phenoxymethyl)-4...	365	C16H13Cl2N3OS	1000296-81-4	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

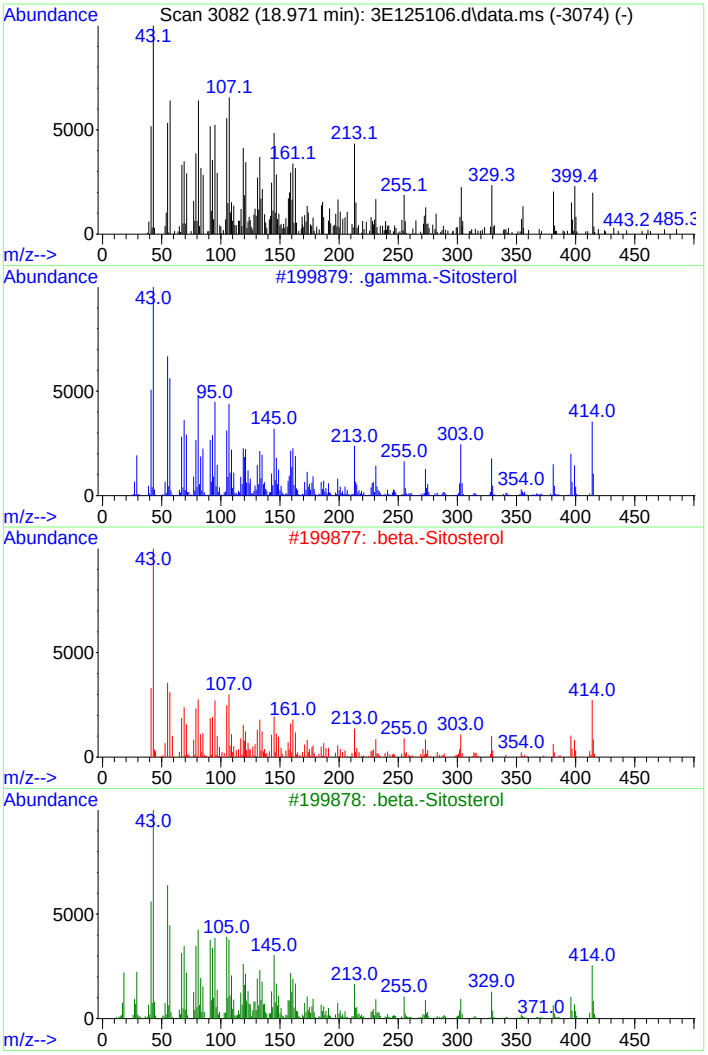
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

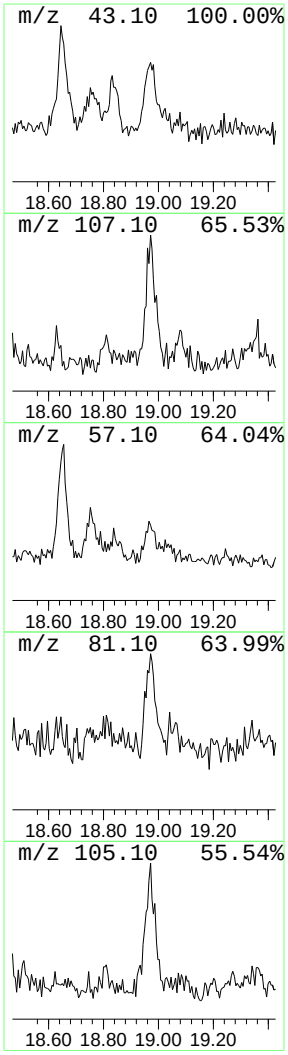
****

Peak Number 14 Sitosterol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.971	8.76 ppm	228850	Perylene-d12	16.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	83
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	70
3	.beta.-Sitosterol	414	C29H50O	000083-46-5	58
4	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	47
5	Cholest-5-ene, 3-ethoxy-, (3.bet...	414	C29H50O	000986-19-6	28





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125106.d
Acq On : 3 Jul 2024 2:43 pm
Operator : anthonyo
Sample : jd91339-14
Misc : op55822,e3e5817,30.1,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Benzoic acid	5.653	15.8	ppm	261121	4	5.894	660215	40.0
unknown	6.701	8.3	ppm	136441	7	5.894	660215	40.0
unknown acid	12.334	4.9	ppm	145190	12	14.393	1186070	40.0
unknown	13.917	12.4	ppm	367347	12	14.393	1186070	40.0
unknown	15.430	9.4	ppm	278757	14	14.393	1186070	40.0
unknown	15.537	5.5	ppm	142193	15	16.527	1044420	40.0
unknown alcohol	16.099	5.2	ppm	135267	15	16.527	1044420	40.0
alkane	16.377	4.4	ppm	114851	15	16.527	1044420	40.0
unknown alcohol	17.073	6.3	ppm	165201	15	16.527	1044420	40.0
alkane	17.372	9.1	ppm	237271	15	16.527	1044420	40.0
alkene	17.431	5.3	ppm	139305	15	16.527	1044420	40.0
unknown alcohol	18.281	7.3	ppm	190101	15	16.527	1044420	40.0
unknown	18.447	8.1	ppm	211948	15	16.527	1044420	40.0
Sitosterol	18.971	8.8	ppm	228850	15	16.527	1044420	40.0

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125101.d
Acq On : 3 Jul 2024 12:33 pm
Operator : anthonyo
Sample : op55822-mb1 Inst : GCMS3E
Misc : op55822,e3e5817,30.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 04 05:33:44 2024
Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
QLast Update : Thu Jul 04 05:20:43 2024
Response via : Initial Calibration

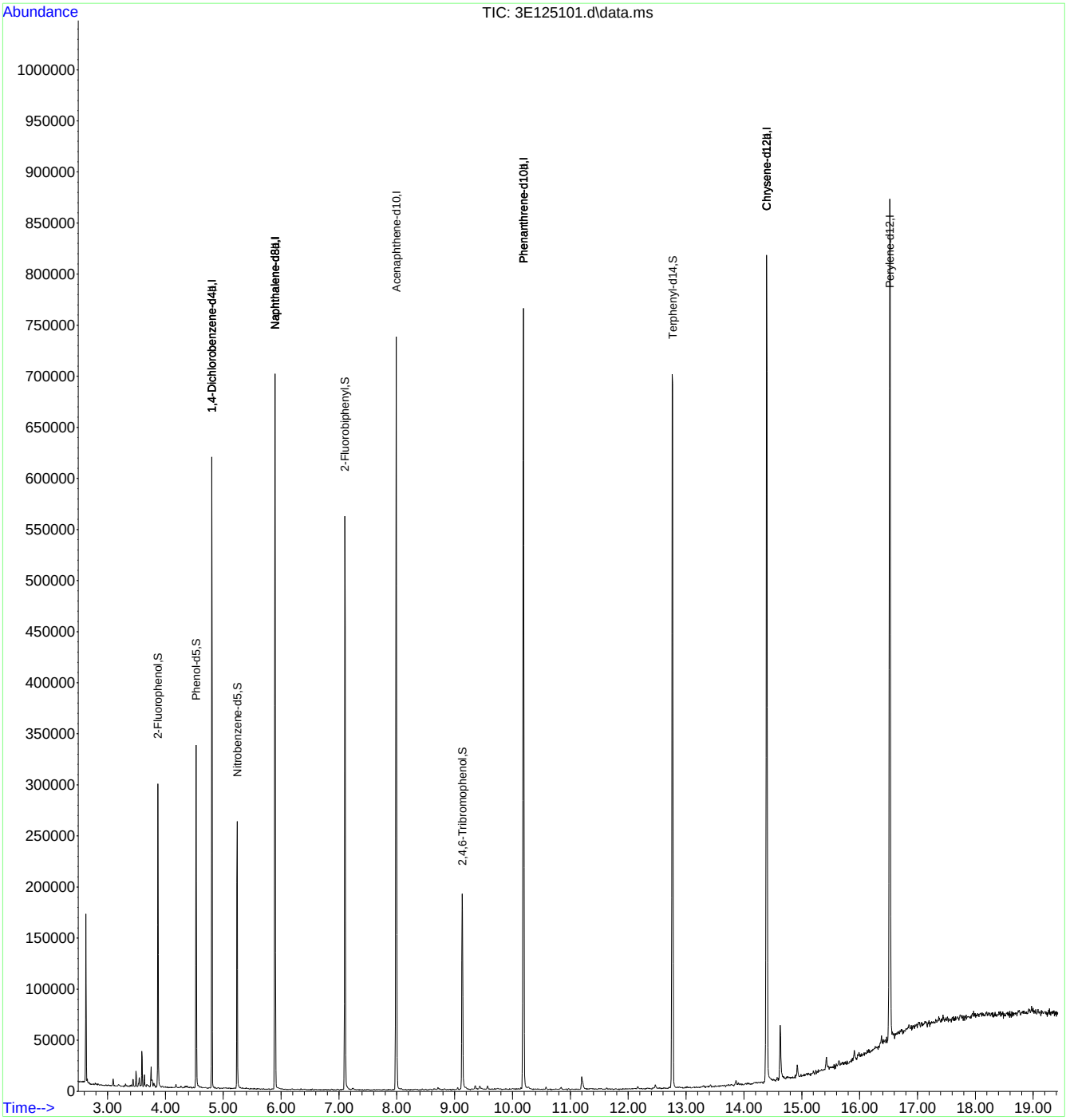
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.803	152	70708	40.00	ppm	0.00
24) Naphthalene-d8	5.894	136	286223	40.00	ppm	0.00
46) Acenaphthene-d10	7.990	164	172758	40.00	ppm	0.00
69) Phenanthrene-d10	10.189	188	331610	40.00	ppm	0.00
84) Chrysene-d12	14.393	240	315532	40.00	ppm	0.00
93) Perylene-d12	16.522	264	354213	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.803	152	70708	40.00	ppm	0.00
105) Phenanthrene-d10a	10.189	188	331610	40.00	ppm	0.00
107) Naphthalene-d8a	5.894	136	286223	40.00	ppm	0.00
109) Phenanthrene-d10b	10.189	188	331610	40.00	ppm	0.00
112) Chrysene-d12a	14.393	240	315532	40.00	ppm	0.00
114) Naphthalene-d8b	5.894	136	286223	40.00	ppm	0.00
117) Naphthalene-d8c	5.894	136	286223	40.00	ppm	0.00
119) Chrysene-d12b	14.393	240	315532	40.00	ppm	0.00
121) 1,4-Dichlorobenzene-d4b	4.803	152	70708	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.872	112	59550	26.45	ppm	0.00
Spiked Amount 50.000			Recovery = 52.90%			
8) Phenol-d5	4.530	99	83380	29.42	ppm	0.00
Spiked Amount 50.000			Recovery = 58.84%			
25) Nitrobenzene-d5	5.241	82	72293	30.37	ppm	0.00
Spiked Amount 50.000			Recovery = 60.74%			
51) 2-Fluorobiphenyl	7.103	172	178189	31.83	ppm	0.00
Spiked Amount 50.000			Recovery = 63.66%			
74) 2,4,6-Tribromophenol	9.135	330	24451	35.16	ppm	0.00
Spiked Amount 50.000			Recovery = 70.32%			
87) Terphenyl-d14	12.767	244	277247	34.59	ppm	0.00
Spiked Amount 50.000			Recovery = 69.18%			
110) 1-chlorooctadecane	0.000	56	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125101.d
Acq On : 3 Jul 2024 12:33 pm
Operator : anthonyo
Sample : op55822-mb1 Inst : GCMS3E
Misc : op55822,e3e5817,30.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 04 05:33:44 2024
Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023
QLast Update : Thu Jul 04 05:20:43 2024
Response via : Initial Calibration



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125101.d
Acq On : 3 Jul 2024 12:33 pm
Operator : anthonyo
Sample : op55822-mb1
Misc : op55822,e3e5817,30.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 40 Area counts
Start Thrs: 0.05 Max Peaks: 100
Stop Thrs : 0.001 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

Signal : TIC: 3E125101.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.551	193	199	203	rBV3	8846	10231	0.93%	0.139%
2	3.594	203	207	211	rVV	34920	27230	2.48%	0.370%
3	3.637	211	215	221	rVV	12079	10846	0.99%	0.147%
4	3.679	221	223	232	rVV7	2853	5095	0.46%	0.069%
5	3.754	232	237	243	rVV2	20137	22291	2.03%	0.303%
6	3.802	243	246	252	rVB4	4469	6224	0.57%	0.085%
7	3.872	253	259	270	rVV	297364	207840	18.90%	2.822%
8	3.952	270	274	278	rVB6	1575	2342	0.21%	0.032%
9	4.182	315	317	324	rVB7	3620	3232	0.29%	0.044%
10	4.343	342	347	348	rBV2	1877	1962	0.18%	0.027%
11	4.380	352	354	357	rVV3	2319	1824	0.17%	0.025%
12	4.439	362	365	368	rVB5	1567	1694	0.15%	0.023%
13	4.530	376	382	393	rBV	335743	237512	21.60%	3.225%
14	4.803	429	433	444	rVV	618032	421283	38.32%	5.720%
15	4.915	450	454	459	rVB5	1569	2743	0.25%	0.037%
16	4.952	459	461	468	rBV6	1028	2252	0.20%	0.031%
17	5.001	469	470	476	rBV5	662	1155	0.11%	0.016%
18	5.241	510	515	524	rBV	261526	213530	19.42%	2.899%
19	5.332	531	532	537	rVV5	1168	1047	0.10%	0.014%
20	5.396	541	544	549	rVV5	1187	1525	0.14%	0.021%
21	5.471	555	558	560	rBV3	1302	1082	0.10%	0.015%
22	5.600	581	582	590	rVB6	1226	2176	0.20%	0.030%
23	5.696	598	600	604	rVB3	964	1060	0.10%	0.014%
24	5.787	614	617	621	rVB6	1045	1349	0.12%	0.018%
25	5.894	632	637	645	rBV	700293	585368	53.24%	7.947%
26	6.017	657	660	664	rVB5	1099	1398	0.13%	0.019%
27	6.199	688	694	697	rBV5	952	1675	0.15%	0.023%
28	6.541	756	758	762	rBV4	1414	1428	0.13%	0.019%
29	6.584	763	766	770	rBV5	965	1319	0.12%	0.018%
30	6.873	817	820	822	rBV3	1064	1190	0.11%	0.016%
31	6.974	834	839	846	rVB7	1259	2340	0.21%	0.032%
32	7.028	846	849	852	rBV5	1048	1305	0.12%	0.018%
33	7.103	857	863	878	rVV	561530	529421	48.15%	7.188%
34	7.247	882	890	895	rBV7	1745	2961	0.27%	0.040%
35	7.327	902	905	909	rVB6	819	1324	0.12%	0.018%
36	7.440	922	926	929	rBV2	1089	1471	0.13%	0.020%
37	7.760	983	986	988	rBV4	1019	1171	0.11%	0.016%
38	7.932	1015	1018	1020	rBV4	939	1020	0.09%	0.014%
39	7.990	1023	1029	1042	rBV	737258	749945	68.21%	10.182%
40	8.076	1042	1045	1050	rVB4	1553	2253	0.20%	0.031%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125101.d
Acq On : 3 Jul 2024 12:33 pm
Operator : anthonyo
Sample : op55822-mb1
Misc : op55822,e3e5817,30.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 40 Area counts
Start Thrs: 0.05 Max Peaks: 100
Stop Thrs : 0.001 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

41	8.204	1067	1069	1073	rVB4	1224	1470	0.13%	0.020%
42	8.242	1073	1076	1082	rBV5	1049	1829	0.17%	0.025%
43	8.311	1082	1089	1092	rBV7	843	1547	0.14%	0.021%
44	8.499	1121	1124	1128	rVB4	1163	1336	0.12%	0.018%
45	8.568	1135	1137	1144	rBV6	762	1382	0.13%	0.019%
46	8.648	1144	1152	1158	rBV7	1154	2292	0.21%	0.031%
47	8.713	1161	1164	1171	rVB3	2089	2999	0.27%	0.041%
48	8.825	1180	1185	1192	rBV9	1174	2024	0.18%	0.027%
49	8.926	1199	1204	1209	rVB5	1106	1721	0.16%	0.023%
50	8.959	1209	1210	1213	rBV2	1133	1010	0.09%	0.014%
51	9.055	1217	1228	1232	rBV7	2421	3415	0.31%	0.046%
52	9.130	1233	1242	1252	rBV	191502	226840	20.63%	3.080%
53	9.354	1277	1284	1288	rBV5	3841	5273	0.48%	0.072%
54	9.435	1294	1299	1303	rBV7	2926	4083	0.37%	0.055%
55	9.568	1318	1324	1329	rVV7	3574	4377	0.40%	0.059%
56	9.649	1335	1339	1342	rBV4	1029	1457	0.13%	0.020%
57	9.691	1342	1347	1349	rVB6	1317	1312	0.12%	0.018%
58	9.718	1349	1352	1354	rBV3	966	1199	0.11%	0.016%
59	9.750	1355	1358	1364	rVV7	1066	1686	0.15%	0.023%
60	9.798	1364	1367	1370	rVB3	1103	1394	0.13%	0.019%
61	9.996	1402	1404	1409	rVV6	807	1270	0.12%	0.017%
62	10.146	1428	1432	1434	rVV3	1969	1978	0.18%	0.027%
63	10.189	1434	1440	1453	rVV	764787	837933	76.21%	11.376%
64	10.280	1454	1457	1471	rVB	2771	7163	0.65%	0.097%
65	10.365	1471	1473	1477	rBV4	1047	1285	0.12%	0.017%
66	10.579	1510	1513	1519	rVB5	2913	3499	0.32%	0.048%
67	10.659	1524	1528	1530	rVB2	1264	1392	0.13%	0.019%
68	10.841	1555	1562	1572	rBV6	2205	3815	0.35%	0.052%
69	10.927	1572	1578	1582	rVB7	1326	2507	0.23%	0.034%
70	10.970	1582	1586	1591	rBV5	1634	2688	0.24%	0.036%
71	11.034	1591	1598	1604	rBV8	1019	3147	0.29%	0.043%
72	11.194	1622	1628	1643	rBV5	12625	25427	2.31%	0.345%
73	11.307	1646	1649	1652	rBV4	942	1336	0.12%	0.018%
74	11.328	1652	1653	1657	rBV3	968	1297	0.12%	0.018%
75	11.628	1706	1709	1713	rVB5	1651	2126	0.19%	0.029%
76	11.772	1735	1736	1744	rVB7	870	1574	0.14%	0.021%
77	11.858	1750	1752	1755	rBV4	1085	1127	0.10%	0.015%
78	12.168	1806	1810	1816	rBV7	2459	3463	0.31%	0.047%
79	12.344	1837	1843	1847	rBV7	897	1947	0.18%	0.026%
80	12.424	1855	1858	1859	rBV3	1537	1659	0.15%	0.023%
81	12.467	1862	1866	1873	rVV9	4062	6434	0.59%	0.087%
82	12.617	1886	1894	1897	rBV6	1453	2405	0.22%	0.033%
83	12.713	1908	1912	1915	rBV5	1755	2131	0.19%	0.029%
84	12.761	1915	1921	1934	rVV	698991	845014	76.85%	11.472%
85	12.879	1941	1943	1947	rVB4	1134	1310	0.12%	0.018%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125101.d
Acq On : 3 Jul 2024 12:33 pm
Operator : anthonyo
Sample : op55822-mb1
Misc : op55822,e3e5817,30.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 40 Area counts
Start Thrs: 0.05 Max Peaks: 100
Stop Thrs : 0.001 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

86	13.013	1966	1968	1973	rBV5	1475	1718	0.16%	0.023%
87	13.163	1994	1996	1998	rBV2	1042	1099	0.10%	0.015%
88	13.221	2004	2007	2010	rVB4	1146	1367	0.12%	0.019%
89	13.264	2010	2015	2016	rBV5	1424	2063	0.19%	0.028%
90	13.302	2017	2022	2026	rVB7	1717	3007	0.27%	0.041%
91	13.419	2041	2044	2048	rVB6	2658	3639	0.33%	0.049%
92	13.457	2049	2051	2056	rVB5	914	1097	0.10%	0.015%
93	13.505	2057	2060	2063	rBV5	1312	1304	0.12%	0.018%
94	13.708	2094	2098	2101	rBV6	1535	2578	0.23%	0.035%
95	13.863	2120	2127	2132	rBV8	5608	10852	0.99%	0.147%
96	14.393	2216	2226	2245	rBV2	811003	1022581	93.00%	13.883%
97	14.628	2265	2270	2280	rBV	53814	81049	7.37%	1.100%
98	14.922	2322	2325	2331	rVB5	11710	13916	1.27%	0.189%
99	15.425	2415	2419	2423	rBV6	11302	14210	1.29%	0.193%
100	16.522	2617	2624	2635	rBV	824176	1099497	100.00%	14.927%

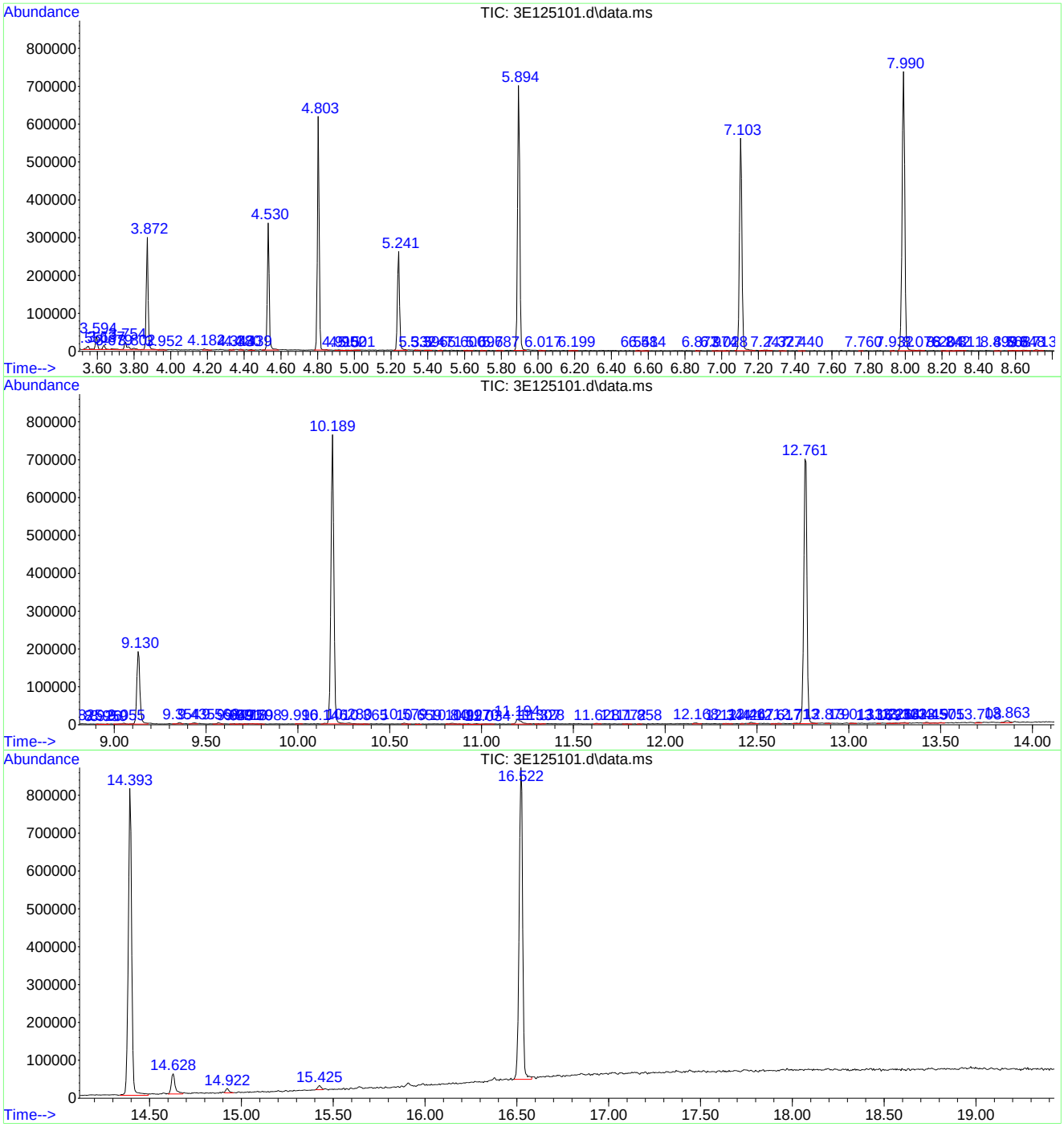
Sum of corrected areas: 7365664

LSC Report - Integrated Chromatogram

```
Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125101.d
Acq On    :  3 Jul 2024  12:33 pm
Operator  : anthonyo
Sample    : op55822-mb1
Misc      : op55822,e3e5817,30.0,,,1,1
ALS Vial  : 4   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title  : Semi Volatile  GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
```



Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\altheam\e3e5817\
Data File : 3E125101.d
Acq On : 3 Jul 2024 12:33 pm
Operator : anthonyo
Sample : op55822-mb1
Misc : op55822,e3e5817,30.0,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\altheam\method\M3E5799.M
Quant Title : Semi Volatile GC/MS,zb-5msplus 30m x .25mm x .25MMon Jan 30 11:38:55 2023

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7970.D
Acq On : 03 Jul 2024 11:38 am
Operator : karimam
Sample : op55800-mb1 Inst : GCMS_CT
Misc : op55800,ect375,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 03 19:28:18 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration

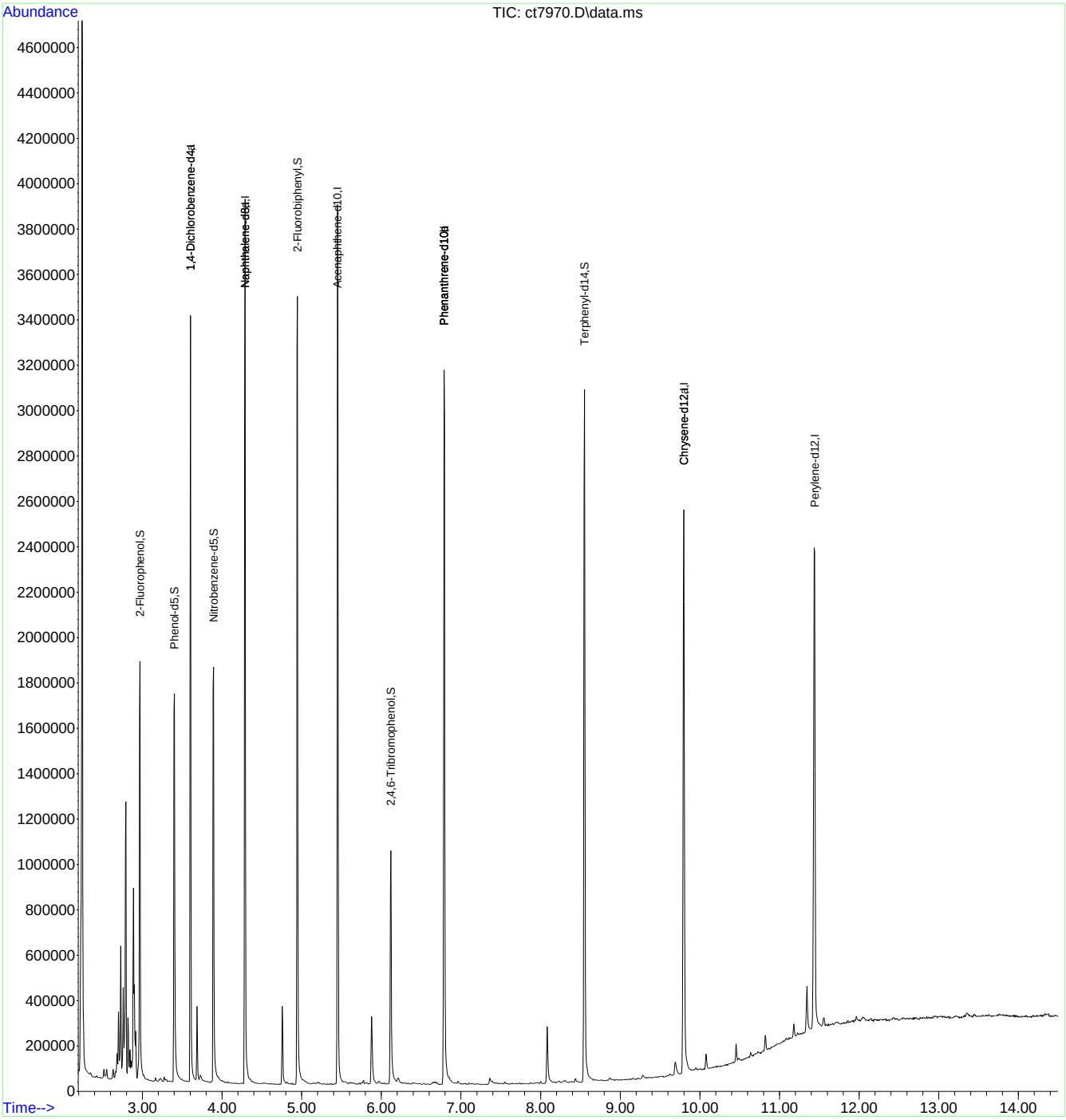
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.605	152	358912	40.00	ppm	0.00
24) Naphthalene-d8	4.289	136	1417676	40.00	ppm	0.00
46) Acenaphthene-d10	5.450	164	771159	40.00	ppm	0.00
69) Phenanthrene-d10	6.787	188	1289972	40.00	ppm	0.00
84) Chrysene-d12	9.798	240	898336	40.00	ppm	0.00
93) Perylene-d12	11.440	264	948035	40.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	3.605	152	358912	40.00	ppm	0.00
105) Phenanthrene-d10a	6.787	188	1289972	40.00	ppm	0.00
107) Naphthalene-d8a	4.289	136	1417676	40.00	ppm	0.00
109) Phenanthrene-d10b	6.787	188	1289972	40.00	ppm	0.00
112) Chrysene-d12a	9.798	240	898336	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	2.968	112	434135	37.50	ppm	0.00
Spiked Amount 50.000			Recovery =	75.00%		
8) Phenol-d5	3.401	99	570991	39.39	ppm	0.00
Spiked Amount 50.000			Recovery =	78.78%		
25) Nitrobenzene-d5	3.893	82	555286	38.09	ppm	0.00
Spiked Amount 50.000			Recovery =	76.18%		
51) 2-Fluorobiphenyl	4.947	172	986509	41.00	ppm	0.00
Spiked Amount 50.000			Recovery =	82.00%		
74) 2,4,6-Tribromophenol	6.119	330	108641	44.32	ppm	0.00
Spiked Amount 50.000			Recovery =	88.64%		
87) Terphenyl-d14	8.552	244	1033364	46.41	ppm	0.00
Spiked Amount 50.000			Recovery =	92.82%		
110) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
111) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7970.D
Acq On : 03 Jul 2024 11:38 am
Operator : karimam
Sample : op55800-mb1 Inst : GCMS_CT
Misc : op55800,ect375,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 03 19:28:18 2024
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022
QLast Update : Wed Jul 03 19:12:50 2024
Response via : Initial Calibration



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7970.D
Acq On : 03 Jul 2024 11:38 am
Operator : karimam
Sample : op55800-mb1
Misc : op55800,ect375,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

Signal : TIC: ct7970.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.075	352	353	355	rBV2	4166	1518	0.04%	0.006%
2	4.145	364	366	371	rVB6	2901	3777	0.11%	0.015%
3	4.188	371	374	376	rVB4	2358	2410	0.07%	0.010%
4	4.204	376	377	380	rVB3	2322	1302	0.04%	0.005%
5	4.252	380	386	388	rBV7	3920	4959	0.15%	0.020%
6	4.289	388	393	427	rVB	3899509	3036813	89.68%	11.992%
7	4.503	429	433	435	rBV5	2822	2852	0.08%	0.011%
8	4.525	435	437	441	rBV5	3538	4007	0.12%	0.016%
9	4.599	450	451	455	rVB4	3765	3963	0.12%	0.016%
10	4.626	455	456	459	rBV3	2413	1795	0.05%	0.007%
11	4.701	467	470	471	rBV3	1805	1788	0.05%	0.007%
12	4.717	471	473	476	rBV4	2829	1487	0.04%	0.006%
13	4.755	476	480	489	rBV	344176	312382	9.23%	1.234%
14	4.813	489	491	496	rVB6	9006	9774	0.29%	0.039%
15	4.867	499	501	504	rVB4	5158	3801	0.11%	0.015%
16	4.888	504	505	507	rVB2	5195	2081	0.06%	0.008%
17	4.947	507	516	546	rBV	3473161	3083055	91.05%	12.175%
18	5.145	549	553	557	rBV6	4557	7020	0.21%	0.028%
19	5.209	558	565	570	rVB6	7382	11399	0.34%	0.045%
20	5.284	576	579	585	rVB7	4413	7603	0.22%	0.030%
21	5.327	585	587	589	rBV3	3971	3796	0.11%	0.015%
22	5.370	592	595	598	rBV5	5910	6429	0.19%	0.025%
23	5.402	598	601	603	rBV4	3122	3496	0.10%	0.014%
24	5.450	603	610	623	rBV	3876809	3385014	99.97%	13.367%
25	5.605	635	639	641	rBV4	7372	8185	0.24%	0.032%
26	5.621	641	642	644	rVV2	3954	2654	0.08%	0.010%
27	5.701	654	657	659	rBV4	4238	2787	0.08%	0.011%
28	5.728	659	662	664	rVV3	6187	5388	0.16%	0.021%
29	5.776	664	671	674	rVV3	17771	23446	0.69%	0.093%
30	5.819	674	679	683	rVB8	6960	12468	0.37%	0.049%
31	5.878	683	690	703	rBV	298158	365083	10.78%	1.442%
32	5.969	703	707	710	rVV2	13428	17695	0.52%	0.070%
33	6.028	714	718	719	rVV3	3377	3452	0.10%	0.014%
34	6.044	719	721	725	rVB5	5755	4915	0.15%	0.019%
35	6.076	725	727	730	rBV3	3146	3630	0.11%	0.014%
36	6.119	730	735	748	rVV	1028091	1121251	33.11%	4.428%
37	6.215	748	753	761	rVV7	25690	52094	1.54%	0.206%
38	6.290	765	767	771	rVV5	3893	4478	0.13%	0.018%
39	6.343	774	777	780	rVB4	4013	4136	0.12%	0.016%
40	6.397	781	787	790	rBV7	6019	7567	0.22%	0.030%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7970.D
Acq On : 03 Jul 2024 11:38 am
Operator : karimam
Sample : op55800-mb1
Misc : op55800,ect375,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

41	6.423	791	792	801	rVB9	4047	5562	0.16%	0.022%
42	6.488	801	804	808	rVB5	4690	4731	0.14%	0.019%
43	6.536	808	813	817	rBV7	3943	5921	0.17%	0.023%
44	6.568	817	819	821	rVB3	1482	1076	0.03%	0.004%
45	6.595	821	824	826	rVB4	3431	3373	0.10%	0.013%
46	6.648	826	834	836	rBV6	12120	18299	0.54%	0.072%
47	6.675	836	839	842	rVB5	9085	9629	0.28%	0.038%
48	6.696	842	843	849	rVB2	10371	10849	0.32%	0.043%
49	6.734	849	850	854	rBV4	3053	2780	0.08%	0.011%
50	6.787	854	860	885	rBV	3149920	3386198	100.00%	13.372%
51	6.964	890	893	900	rVB2	13583	18690	0.55%	0.074%
52	7.012	900	902	905	rVB4	2942	2241	0.07%	0.009%
53	7.055	905	910	915	rVB8	3999	5430	0.16%	0.021%
54	7.103	915	919	921	rBV5	6221	5498	0.16%	0.022%
55	7.129	921	924	925	rBV3	3218	1977	0.06%	0.008%
56	7.145	925	927	932	rVB6	4136	5417	0.16%	0.021%
57	7.199	932	937	942	rBV9	3646	5911	0.17%	0.023%
58	7.242	942	945	948	rVB5	3449	3016	0.09%	0.012%
59	7.274	948	951	954	rBV5	2508	2924	0.09%	0.012%
60	7.301	954	956	959	rVB4	2531	1974	0.06%	0.008%
61	7.327	959	961	962	rBV2	3476	2158	0.06%	0.009%
62	7.365	962	968	981	rBV6	27999	73813	2.18%	0.291%
63	7.482	989	990	992	rVB2	2320	1213	0.04%	0.005%
64	7.515	992	996	1000	rVB7	3710	4528	0.13%	0.018%
65	7.552	1000	1003	1006	rVB4	9135	7408	0.22%	0.029%
66	7.589	1006	1010	1013	rVB6	4206	5727	0.17%	0.023%
67	7.643	1013	1020	1024	rBV10	5366	10156	0.30%	0.040%
68	7.702	1029	1031	1033	rVB3	3980	2073	0.06%	0.008%
69	7.734	1033	1037	1040	rVB5	5181	5864	0.17%	0.023%
70	7.761	1040	1042	1044	rBV3	2891	1957	0.06%	0.008%
71	7.787	1046	1047	1055	rBV8	2647	4677	0.14%	0.018%
72	7.873	1059	1063	1070	rBV10	6314	7454	0.22%	0.029%
73	7.921	1070	1072	1075	rBV4	3296	3595	0.11%	0.014%
74	7.953	1075	1078	1083	rVB7	4463	6679	0.20%	0.026%
75	8.001	1083	1087	1093	rVB5	9599	7881	0.23%	0.031%
76	8.082	1093	1102	1115	rBV	251280	331007	9.78%	1.307%
77	8.237	1124	1131	1134	rVB9	6809	11675	0.34%	0.046%
78	8.279	1135	1139	1141	rBV5	5434	7778	0.23%	0.031%
79	8.301	1141	1143	1152	rVB10	10881	18055	0.53%	0.071%
80	8.381	1152	1158	1165	rBV10	5374	14746	0.44%	0.058%
81	8.440	1165	1169	1173	rBV4	16789	18552	0.55%	0.073%
82	8.552	1182	1190	1211	rBV	3053224	3227362	95.31%	12.745%
83	8.868	1245	1249	1254	rBV8	11455	17732	0.52%	0.070%
84	8.953	1263	1265	1268	rVB4	4305	3895	0.12%	0.015%
85	9.114	1292	1295	1296	rBV3	3114	2910	0.09%	0.011%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7970.D
Acq On : 03 Jul 2024 11:38 am
Operator : karimam
Sample : op55800-mb1
Misc : op55800,ect375,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

86	9.135	1296	1299	1300	rVV2	4520	3529	0.10%	0.014%
87	9.157	1302	1303	1308	rVB5	5890	7166	0.21%	0.028%
88	9.231	1315	1317	1321	rBV5	5438	5948	0.18%	0.023%
89	9.285	1322	1327	1335	rVV5	16266	31368	0.93%	0.124%
90	9.622	1388	1390	1396	rBV7	8785	11027	0.33%	0.044%
91	9.691	1398	1403	1413	rBV3	57598	103973	3.07%	0.411%
92	9.798	1417	1423	1440	rBV	2485672	2822448	83.35%	11.146%
93	10.077	1472	1475	1481	rBV	69049	75924	2.24%	0.300%
94	10.456	1541	1546	1549	rBV	82328	82153	2.43%	0.324%
95	10.638	1578	1580	1584	rBV5	18729	15657	0.46%	0.062%
96	10.820	1611	1614	1620	rBV	71199	81682	2.41%	0.323%
97	11.178	1678	1681	1686	rBV3	60185	67954	2.01%	0.268%
98	11.344	1707	1712	1722	rBV	206557	295424	8.72%	1.167%
99	11.435	1723	1729	1747	rVV	2123909	2830344	83.58%	11.177%
100	11.558	1749	1752	1755	rVB3	37196	46274	1.37%	0.183%

Sum of corrected areas: 25323012

LSC Report - Integrated Chromatogram

```
Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7970.D
Acq On    : 03 Jul 2024  11:38 am
Operator  : karimam
Sample    : op55800-mb1
Misc      : op55800,ect375,30.0,,,1,1
ALS Vial  : 5   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title  : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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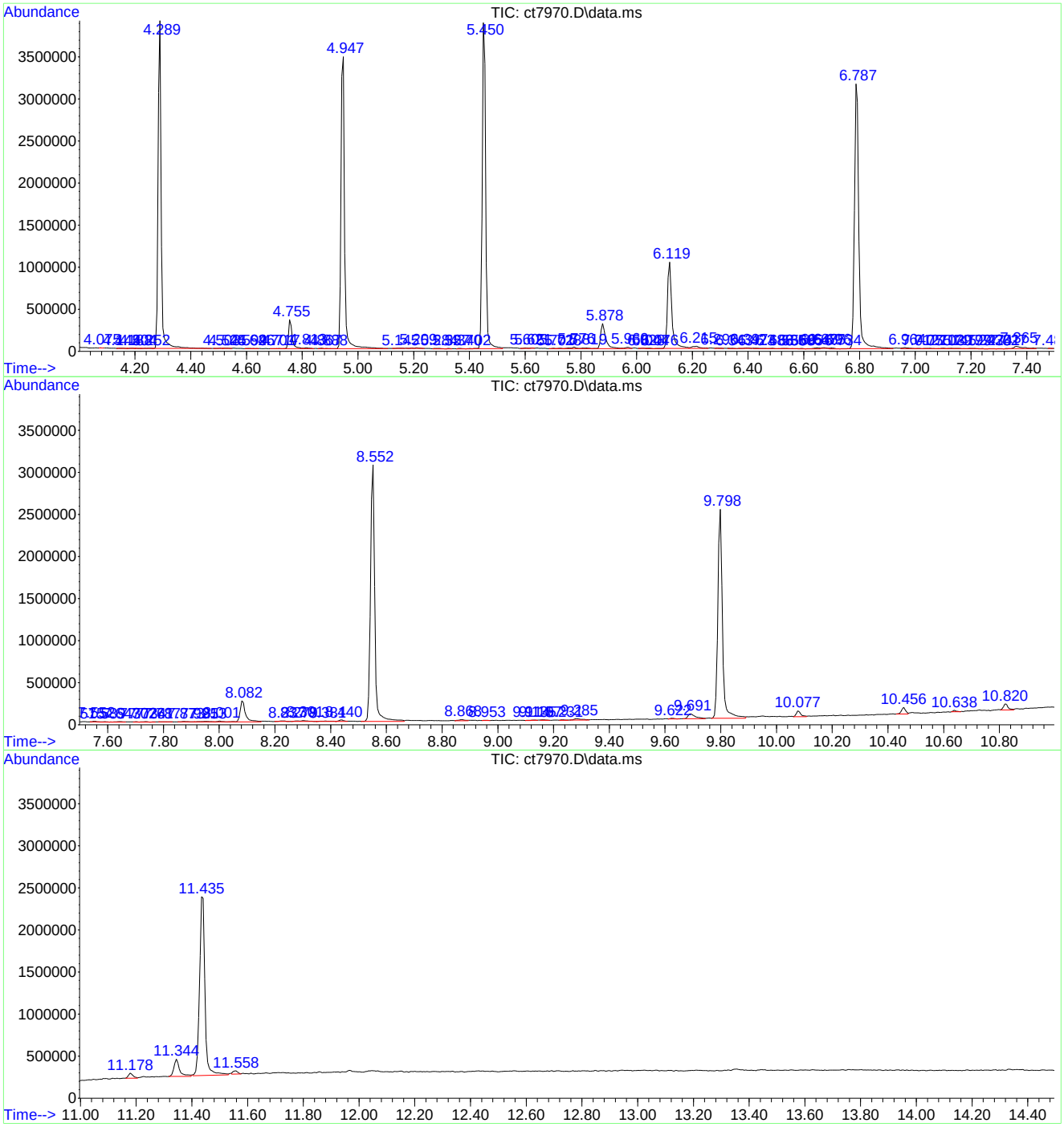


Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7970.D
Acq On : 03 Jul 2024 11:38 am
Operator : karimam
Sample : op55800-mb1
Misc : op55800,ect375,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

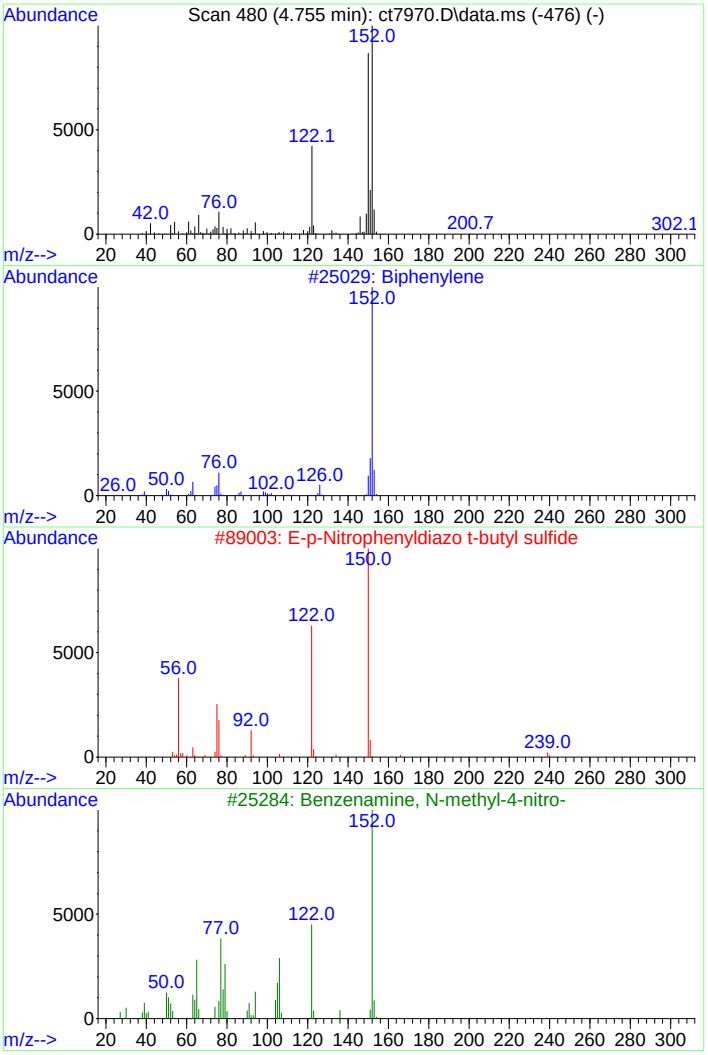
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

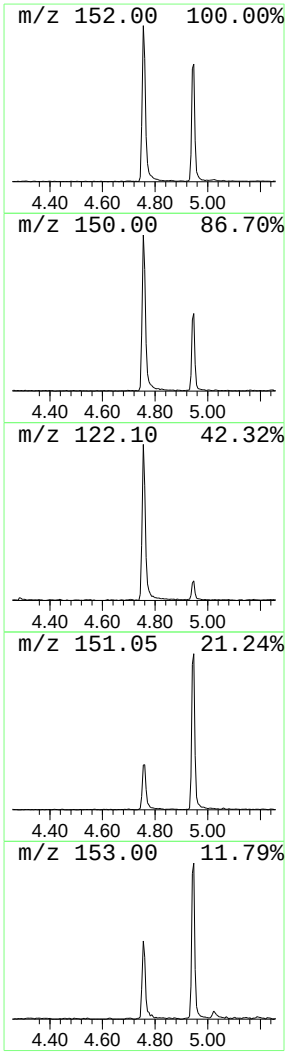
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 1 Internal standard for SIM test Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.755	4.11 ppm	312382	Naphthalene-d8a	4.289

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Biphenylene	152	C12H8	000259-79-0	38
2	E-p-Nitrophenyldiazo t-butyl sul...	239	C10H13N3O2S	029577-82-0	32
3	Benzenamine, N-methyl-4-nitro-	152	C7H8N2O2	000100-15-2	32
4	Acenaphthylene	152	C12H8	000208-96-8	27
5	5,6-Dihydro-4-methylthieno(2,3-d...	152	C7H8N2S	092204-06-3	27





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7970.D
Acq On : 03 Jul 2024 11:38 am
Operator : karimam
Sample : op55800-mb1
Misc : op55800,ect375,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

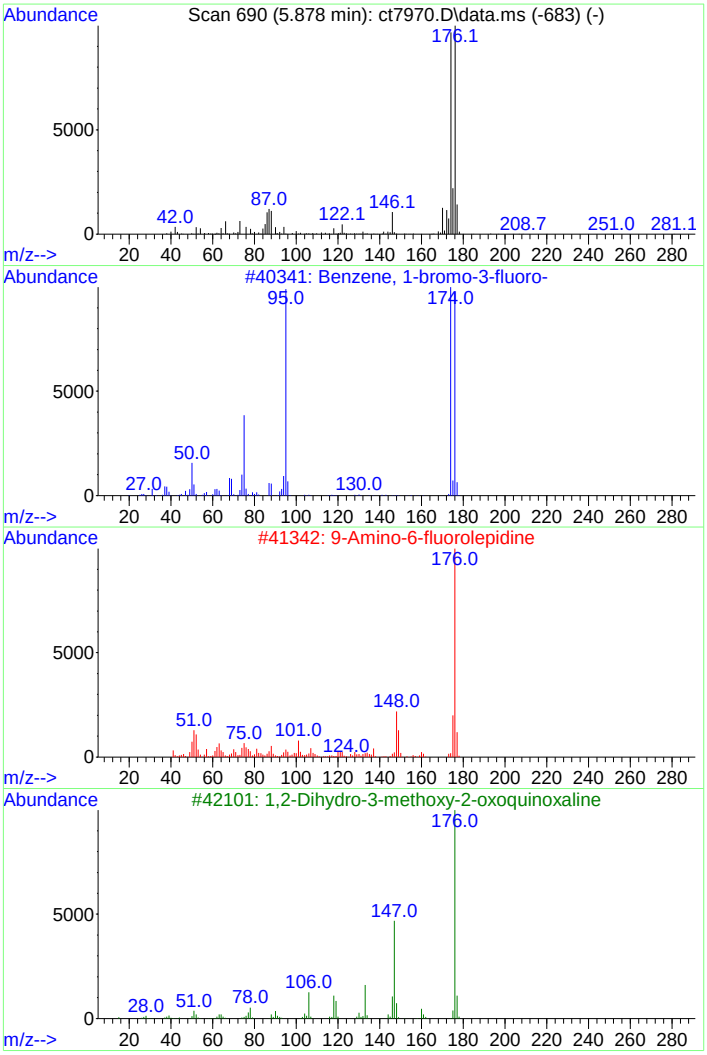
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

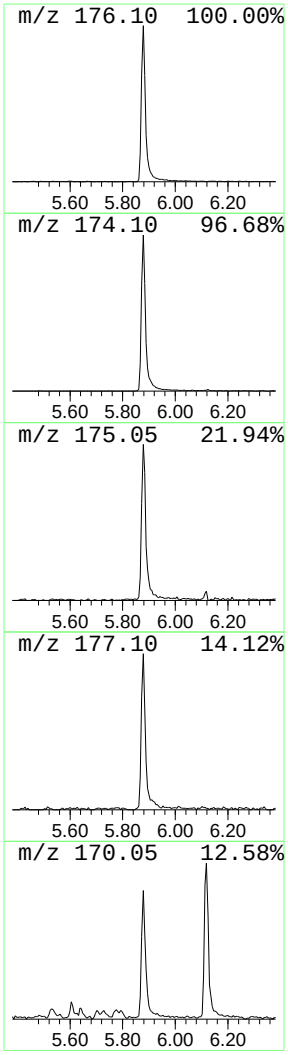
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 2 insternal stantard for SIM ... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.878	4.31 ppm	365083	Acenaphthene-d10	5.450

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-bromo-3-fluoro-	174	C6H4BrF	001073-06-9	38
2	9-Amino-6-fluorolepidine	176	C10H9FN2	064993-16-4	30
3	1,2-Dihydro-3-methoxy-2-oxoquino...	176	C9H8N2O2	035676-71-2	27
4	2-Methyl-6-nitroindolizine	176	C9H8N2O2	1000327-17-7	22
5	Benzo[b]thiophene, 2,5,7-trimethyl-	176	C11H12S	016587-65-8	17





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7970.D
Acq On : 03 Jul 2024 11:38 am
Operator : karimam
Sample : op55800-mb1
Misc : op55800,ect375,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

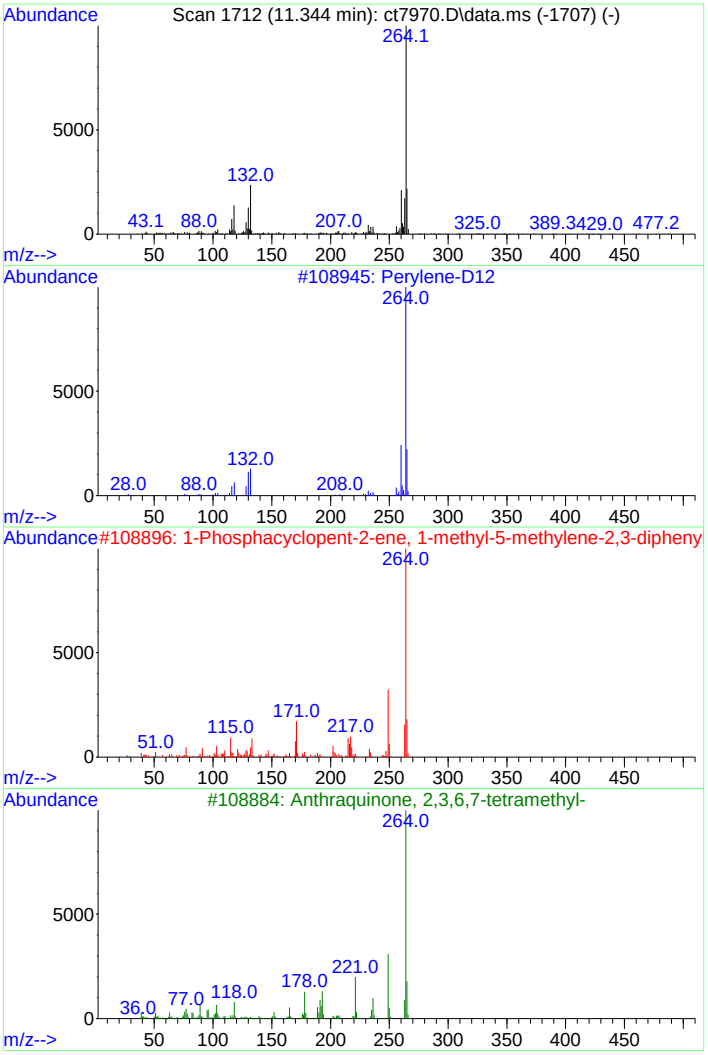
Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

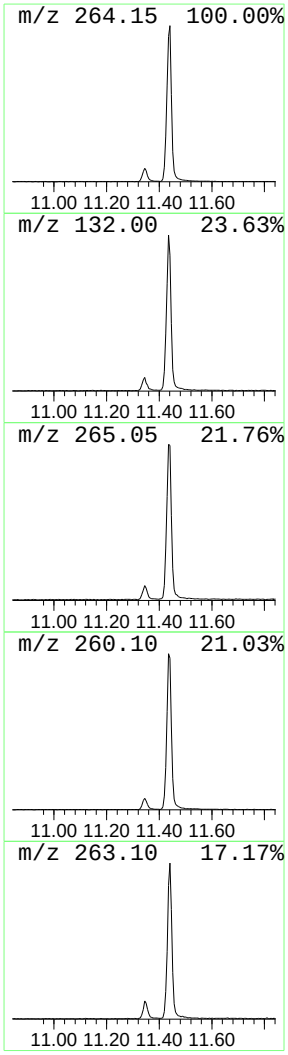
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

****
Peak Number 3 Internal standard for SIM test Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.344	4.18 ppm	295424	Perylene-d12	11.441

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene-D12	264	C20D12	001520-96-3	96
2	1-Phosphacyclopent-2-ene, 1-meth...	264	C18H17P	1000161-67-7	52
3	Anthraquinone, 2,3,6,7-tetramethyl-	264	C18H16O2	015247-68-4	49
4	Desthiogliotoxin	264	C13H16N2O4	1000128-36-5	47
5	2,4,6,8-Tetrathiatricyclo[3.3.1....	264	C10H16S4	007000-79-5	43





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\hayderm\BATCH\Julio\07-03\ECT375\
Data File : ct7970.D
Acq On : 03 Jul 2024 11:38 am
Operator : karimam
Sample : op55800-mb1
Misc : op55800,ect375,30.0,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\hayderm\Method\mct345.m
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuWed Aug 10 17:05:37 2022

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Internal standa...	4.755	4.1	ppm	312382	4	4.289	3036810	40.0
insternal stant...	5.878	4.3	ppm	365083	5	5.450	3385010	40.0
Internal standa...	11.344	4.2	ppm	295424	11	11.441	2830340	40.0

9.2.4

9

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\EP7514\
Data File : p160657a.d
Acq On : 2 Jul 2024 1:16 pm
Operator : karimam
Sample : op55776-mb1 Inst : GCMSP
Misc : op55776,ep7514,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 03 04:01:06 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MP7505ap9.M
Quant Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um
QLast Update : Wed Jul 03 02:52:42 2024
Response via : Initial Calibration

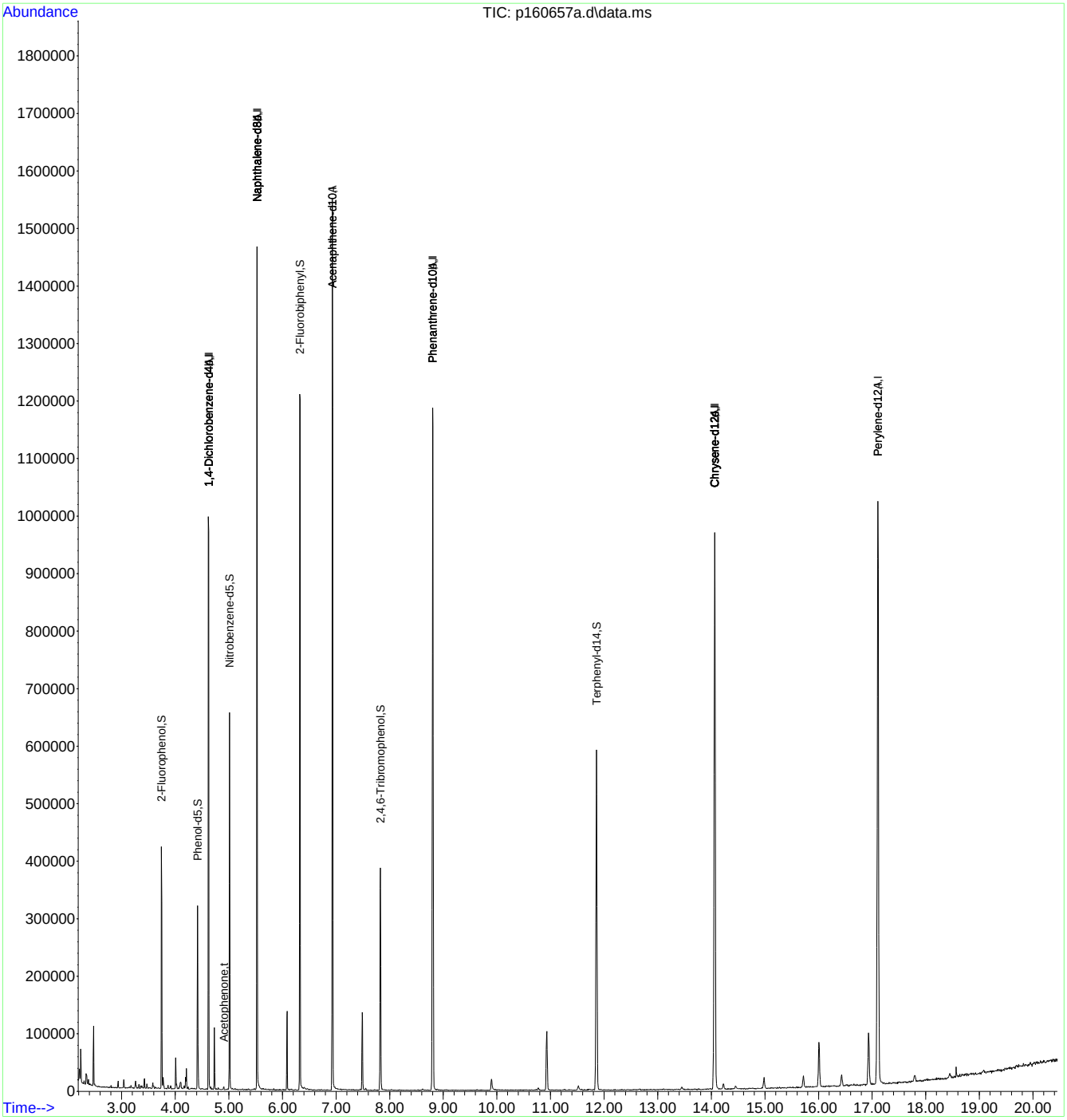
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.623	152	135031	40.00	ppm	0.00
24) Naphthalene-d8	5.526	136	541321	40.00	ppm	0.00
46) Acenaphthene-d10	6.931	164	310751	40.00	ppm	0.00
69) Phenanthrene-d10	8.801	188	584679	40.00	ppm	-0.01
83) Chrysene-d12	14.063	240	527243	40.00	ppm	0.00
92) Perylene-d12	17.108	264	597172	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.623	152	135031	40.00	ppm	0.00
112) Naphthalene-d8A	5.526	136	541321	40.00	ppm	0.00
121) Acenaphthene-d10A	6.931	164	310751	40.00	ppm	0.00
132) Phenanthrene-d10A	8.801	188	584679	40.00	ppm	-0.01
147) Chrysene-d12A	14.063	240	527243	40.00	ppm	0.00
154) Perylene-d12A	17.108	264	597172	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.623	152	135031	40.00	ppm	0.00
160) Phenanthrene-d10b	8.801	188	584679	40.00	ppm	-0.01
162) Naphthalene-d8b	5.526	136	541321	40.00	ppm	0.00
164) Naphthalene-d8c	5.526	136	541321	40.00	ppm	0.00
168) 1,4-Dichlorobenzene-d4c	4.623	152	135031	40.00	ppm	0.00
170) Chrysene-d12c	14.063	240	527243	40.00	ppm	0.00
172) Chrysene-d12d	14.063	240	527243	40.00	ppm	0.00
174) Naphthalene-d8d	5.526	136	541321	40.00	ppm	0.00
176) Chrysene-d12e	14.063	240	527243	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.742	112	96154	24.34	ppm	0.00
Spiked Amount 50.000			Recovery = 48.68%			
8) Phenol-d5	4.415	99	90974	19.75	ppm	0.01
Spiked Amount 50.000			Recovery = 39.50%			
25) Nitrobenzene-d5	5.013	82	137935	36.49	ppm	0.00
Spiked Amount 50.000			Recovery = 72.98%			
51) 2-Fluorobiphenyl	6.328	172	352106	34.30	ppm	0.00
Spiked Amount 50.000			Recovery = 68.60%			
73) 2,4,6-Tribromophenol	7.829	330	46578	34.55	ppm	0.00
Spiked Amount 50.000			Recovery = 69.10%			
86) Terphenyl-d14	11.857	244	294937	19.72	ppm	-0.01
Spiked Amount 50.000			Recovery = 39.44%			
Target Compounds						Qvalue
18) Acetophenone	4.907	105	1107	0.2074	ppm	98

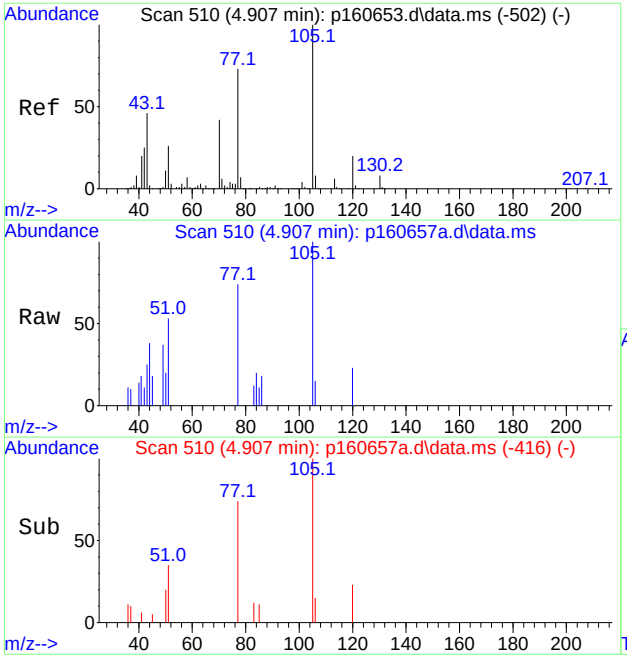
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\jezreelo\EP7514\
Data File : p160657a.d
Acq On : 2 Jul 2024 1:16 pm
Operator : karimam
Sample : op55776-mb1 Inst : GCMSP
Misc : op55776,ep7514,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 03 04:01:06 2024
Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MP7505ap9.M
Quant Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um
QLast Update : Wed Jul 03 02:52:42 2024
Response via : Initial Calibration

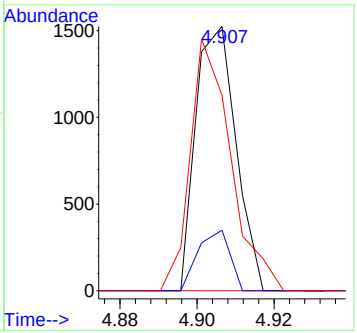




#18
Acetophenone
Concen: 0.2074 ppm
RT: 4.907 min Scan# 510
Delta R.T. -0.000 min
Lab File: p160657a.d
Acq: 2 Jul 2024 1:16 pm

Tgt Ion:105 Resp: 1107

Ion	Ratio	Lower	Upper
105	100		
120	23.0	0.0	49.6
77	73.8	43.2	103.2



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\EP7514\
Data File : p160657a.d
Acq On : 2 Jul 2024 1:16 pm
Operator : karimam
Sample : op55776-mb1
Misc : op55776,ep7514,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MP7505ap9.M
Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um

Signal : TIC: p160657a.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.214	3	6	8	rBV2	18793	17856	1.04%	0.144%
2	2.235	8	10	18	rVB	60020	46765	2.72%	0.378%
3	2.299	20	22	26	rVB4	6112	4024	0.23%	0.032%
4	2.337	27	29	35	rBV3	18728	23506	1.37%	0.190%
5	2.380	35	37	41	rVB2	9803	5995	0.35%	0.048%
6	2.476	51	55	70	rVB	106425	80201	4.66%	0.648%
7	2.567	70	72	79	rBV4	1936	2621	0.15%	0.021%
8	2.802	113	116	118	rVB3	4836	3563	0.21%	0.029%
9	2.935	138	141	146	rVB	12828	9630	0.56%	0.078%
10	3.042	156	161	164	rVB	14633	11570	0.67%	0.093%
11	3.176	183	186	191	rBV6	4505	3694	0.21%	0.030%
12	3.261	197	202	207	rVB2	12557	13404	0.78%	0.108%
13	3.325	210	214	218	rVB2	7714	6530	0.38%	0.053%
14	3.357	218	220	222	rBV3	5419	4531	0.26%	0.037%
15	3.379	222	224	227	rVV3	4563	3091	0.18%	0.025%
16	3.427	230	233	238	rVB	17323	14418	0.84%	0.116%
17	3.469	238	241	245	rBV4	8177	6241	0.36%	0.050%
18	3.582	258	262	268	rVB3	10318	11545	0.67%	0.093%
19	3.630	268	271	276	rBV5	3122	3204	0.19%	0.026%
20	3.742	288	292	296	rBV	421262	306580	17.82%	2.476%
21	3.774	296	298	304	rVV	20118	17610	1.02%	0.142%
22	3.865	311	315	318	rVV3	6591	5161	0.30%	0.042%
23	3.913	321	324	328	rVB3	6058	5850	0.34%	0.047%
24	4.009	335	342	349	rVB	54457	43764	2.54%	0.353%
25	4.100	353	359	367	rVV5	12269	20574	1.20%	0.166%
26	4.164	367	371	374	rVV6	5914	6989	0.41%	0.056%
27	4.207	374	379	382	rVV2	35978	36150	2.10%	0.292%
28	4.239	383	385	389	rVB2	4435	3201	0.19%	0.026%
29	4.297	389	396	398	rBV5	2278	3172	0.18%	0.026%
30	4.415	413	418	429	rVB	319122	246259	14.31%	1.989%
31	4.501	429	434	439	rBV7	1728	2637	0.15%	0.021%
32	4.618	451	456	463	rVV	996003	751158	43.66%	6.066%
33	4.661	463	464	467	rVB3	4912	3653	0.21%	0.029%
34	4.682	467	468	472	rBV3	2490	2079	0.12%	0.017%
35	4.730	472	477	482	rVB	108153	71018	4.13%	0.574%
36	4.800	487	490	494	rBV4	3389	2827	0.16%	0.023%
37	4.907	507	510	513	rVB3	5426	4287	0.25%	0.035%
38	5.013	525	530	538	rVV	655533	411656	23.93%	3.324%
39	5.067	538	540	544	rVV4	2810	2342	0.14%	0.019%
40	5.115	544	549	551	rVB4	2309	2003	0.12%	0.016%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\EP7514\
Data File : p160657a.d
Acq On : 2 Jul 2024 1:16 pm
Operator : karimam
Sample : op55776-mb1
Misc : op55776,ep7514,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MP7505ap9.M
Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um

41	5.259	574	576	579	rVB4	2391	2027	0.12%	0.016%
42	5.366	591	596	598	rBV5	1992	2082	0.12%	0.017%
43	5.526	620	626	642	rBV	1466278	1052621	61.18%	8.500%
44	5.836	681	684	689	rVB3	3459	3595	0.21%	0.029%
45	6.087	726	731	735	rBV	137426	106915	6.21%	0.863%
46	6.151	738	743	745	rBV3	1717	2186	0.13%	0.018%
47	6.237	756	759	765	rBV5	1481	2050	0.12%	0.017%
48	6.322	765	775	787	rBV	1210313	976627	56.76%	7.887%
49	6.408	788	791	798	rVV5	4901	8213	0.48%	0.066%
50	6.466	798	802	807	rVB5	2366	3485	0.20%	0.028%
51	6.931	881	889	901	rBV	1549773	1286495	74.77%	10.389%
52	7.455	982	987	988	rBV3	2343	2717	0.16%	0.022%
53	7.487	988	993	999	rVV	135737	130586	7.59%	1.055%
54	7.551	1001	1005	1010	rVB3	3811	4465	0.26%	0.036%
55	7.711	1031	1035	1042	rBV6	1256	1936	0.11%	0.016%
56	7.829	1049	1057	1066	rBV	387042	394558	22.93%	3.186%
57	8.032	1093	1095	1102	rVB5	1701	2235	0.13%	0.018%
58	8.529	1185	1188	1191	rVB4	1638	2142	0.12%	0.017%
59	8.614	1198	1204	1209	rVV7	2850	5381	0.31%	0.043%
60	8.801	1230	1239	1252	rBV	1187011	1401719	81.47%	11.320%
61	8.881	1252	1254	1259	rVB4	1974	2691	0.16%	0.022%
62	8.919	1259	1261	1266	rVB4	1347	2022	0.12%	0.016%
63	9.191	1309	1312	1318	rBV2	1241	2192	0.13%	0.018%
64	9.896	1437	1444	1457	rBV4	19838	35470	2.06%	0.286%
65	10.350	1528	1529	1536	rVV5	1150	2124	0.12%	0.017%
66	10.772	1603	1608	1614	rBV3	4063	5324	0.31%	0.043%
67	10.933	1630	1638	1647	rBV	102700	148410	8.63%	1.198%
68	11.520	1738	1748	1756	rBV6	7948	14441	0.84%	0.117%
69	11.723	1783	1786	1792	rBV5	2105	3256	0.19%	0.026%
70	11.857	1804	1811	1819	rBV	591677	827690	48.11%	6.684%
71	12.658	1954	1961	1967	rVV7	2103	4634	0.27%	0.037%
72	12.984	2017	2022	2026	rBV5	1366	2239	0.13%	0.018%
73	13.112	2041	2046	2049	rVV4	2083	3097	0.18%	0.025%
74	13.150	2051	2053	2059	rVV3	1182	2005	0.12%	0.016%
75	13.326	2080	2086	2088	rBV5	1391	2031	0.12%	0.016%
76	13.347	2088	2090	2096	rBV6	1198	2041	0.12%	0.016%
77	13.449	2102	2109	2116	rBV5	4780	8753	0.51%	0.071%
78	13.716	2157	2159	2162	rVB3	2024	2028	0.12%	0.016%
79	13.737	2162	2163	2166	rBV	1707	1966	0.11%	0.016%
80	13.919	2196	2197	2202	rBV3	1673	1980	0.12%	0.016%
81	14.063	2215	2224	2239	rVB2	968370	1500051	87.18%	12.114%
82	14.223	2247	2254	2263	rVB4	9695	17920	1.04%	0.145%
83	14.448	2292	2296	2307	rBV8	4894	8772	0.51%	0.071%
84	14.619	2325	2328	2332	rVB5	2335	2271	0.13%	0.018%
85	14.715	2340	2346	2347	rBV5	2043	3182	0.18%	0.026%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\EP7514\
Data File : p160657a.d
Acq On : 2 Jul 2024 1:16 pm
Operator : karimam
Sample : op55776-mb1
Misc : op55776,ep7514,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.1 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MP7505ap9.M
Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um

86	14.774	2355	2357	2362	rVB4	2120	2570	0.15%	0.021%
87	14.982	2390	2396	2405	rVB2	19625	29924	1.74%	0.242%
88	15.270	2447	2450	2454	rVB5	2782	2946	0.17%	0.024%
89	15.361	2466	2467	2474	rBV6	1483	2133	0.12%	0.017%
90	15.591	2507	2510	2512	rBV4	2597	2204	0.13%	0.018%
91	15.719	2523	2534	2543	rBV3	21375	40893	2.38%	0.330%
92	15.773	2543	2544	2548	rBV4	2309	2449	0.14%	0.020%
93	16.008	2581	2588	2596	rBV2	77548	125462	7.29%	1.013%
94	16.430	2657	2667	2675	rBV3	20310	37265	2.17%	0.301%
95	16.718	2718	2721	2725	rVB4	3381	3537	0.21%	0.029%
96	16.830	2741	2742	2746	rBV4	2270	2345	0.14%	0.019%
97	16.932	2754	2761	2770	rBV2	90181	153407	8.92%	1.239%
98	17.108	2784	2794	2812	rBV2	1013516	1720583	100.00%	13.895%
99	17.797	2917	2923	2928	rVB9	11379	23341	1.36%	0.188%
100	18.567	3065	3067	3074	rBV2	18148	14087	0.82%	0.114%

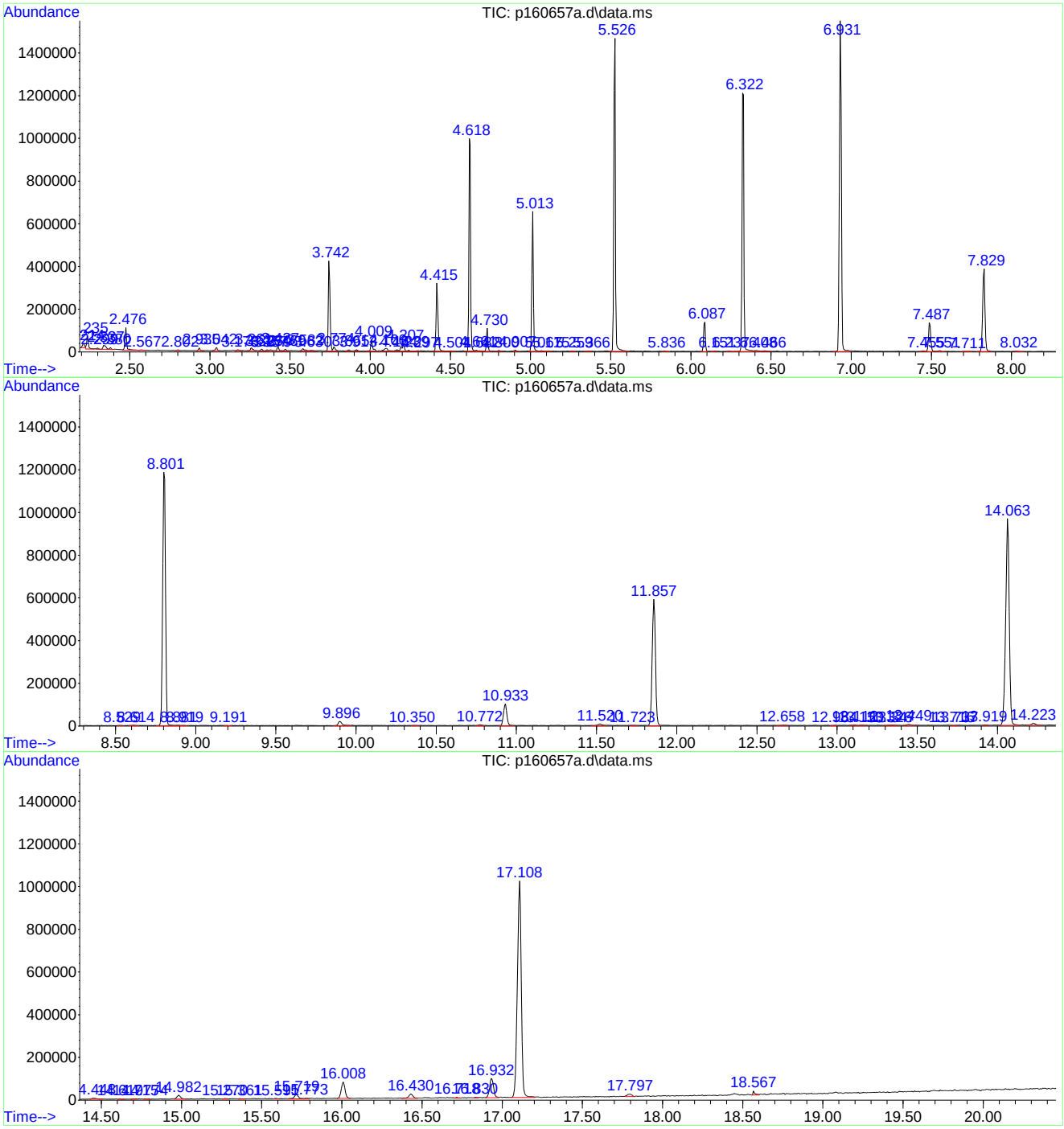
Sum of corrected areas: 12383130

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\jezreelo\EP7514\
Data File : p160657a.d
Acq On : 2 Jul 2024 1:16 pm
Operator : karimam
Sample : op55776-mb1
Misc : op55776,ep7514,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MP7505ap9.M
Quant Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: rteint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\EP7514\
Data File : p160657a.d
Acq On : 2 Jul 2024 1:16 pm
Operator : karimam
Sample : op55776-mb1
Misc : op55776,ep7514,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MP7505ap9.M
Quant Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um

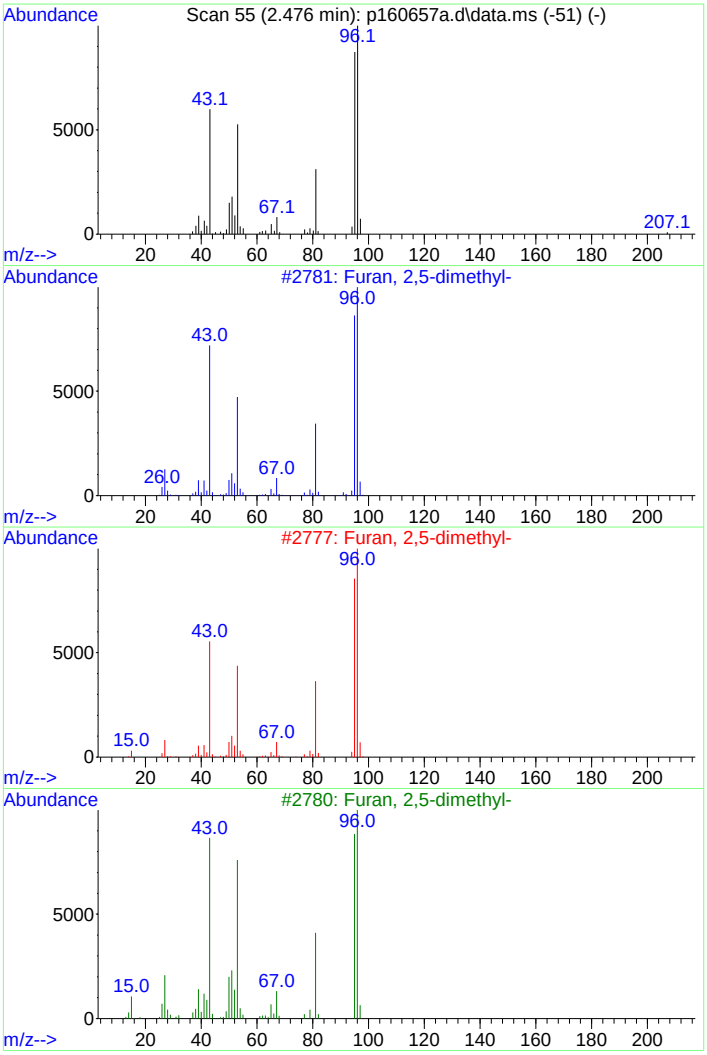
TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: rteint.p

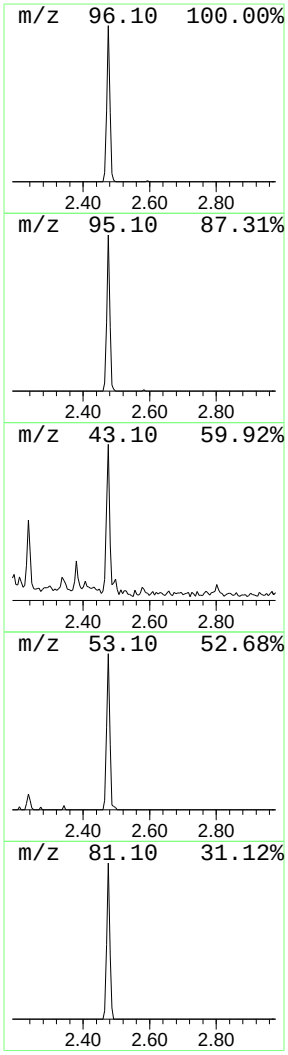
****

Peak Number 1 System artifact Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.476	4.27 ppm	80201	1,4-Dichlorobenzene-d4A	4.623

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	94
2	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	94
3	Furan, 2,5-dimethyl-	96	C6H8O	000625-86-5	91
4	Ethanone, 1-(methylenecyclopropyl)-	96	C6H8O	062266-35-7	45
5	Furfural	96	C5H4O2	000098-01-1	43





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\EP7514\
Data File : p160657a.d
Acq On : 2 Jul 2024 1:16 pm
Operator : karimam
Sample : op55776-mb1
Misc : op55776,ep7514,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MP7505ap9.M
Quant Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um

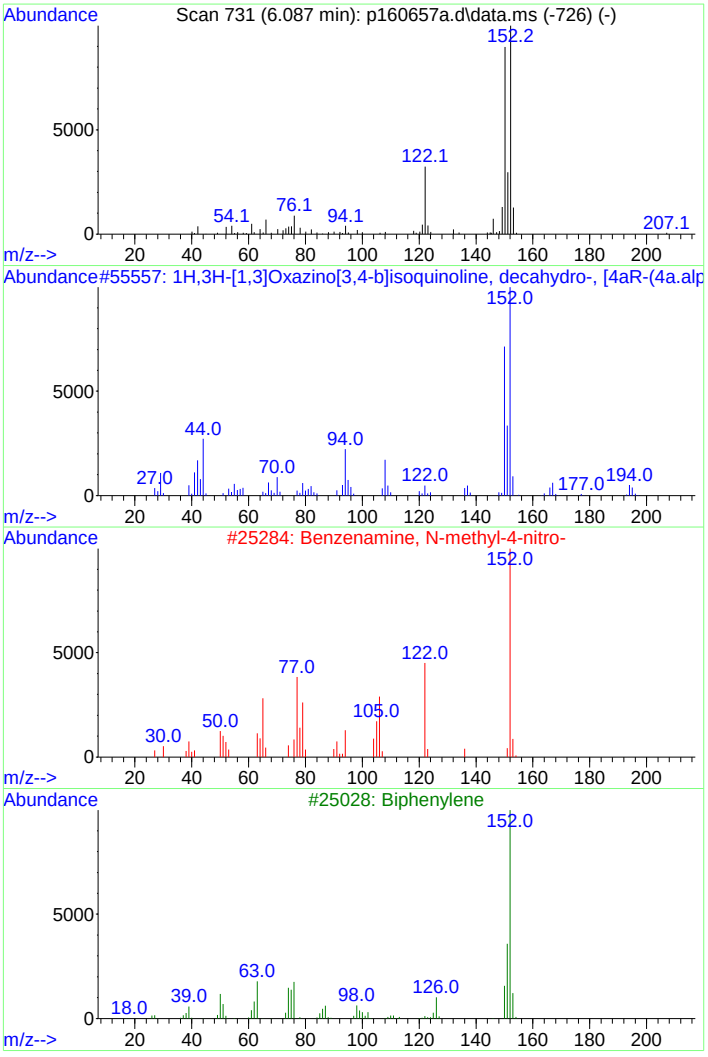
TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: rteint.p

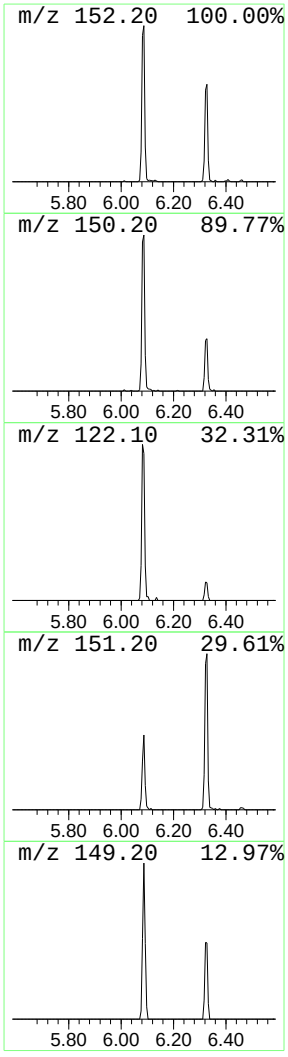
****

Peak Number 2 Internal standard added for... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.087	4.06 ppm	106915	Naphthalene-d8d	5.526

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H,3H-[1,3]Oxazino[3,4-b]isoquin...	195	C12H21NO	076097-55-7	39
2	Benzenamine, N-methyl-4-nitro-	152	C7H8N2O2	000100-15-2	38
3	Biphenylene	152	C12H8	000259-79-0	35
4	Biphenylene	152	C12H8	000259-79-0	27
5	Acenaphthylene	152	C12H8	000208-96-8	27





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\EP7514\
Data File : p160657a.d
Acq On : 2 Jul 2024 1:16 pm
Operator : karimam
Sample : op55776-mb1
Misc : op55776,ep7514,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MP7505ap9.M
Quant Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um

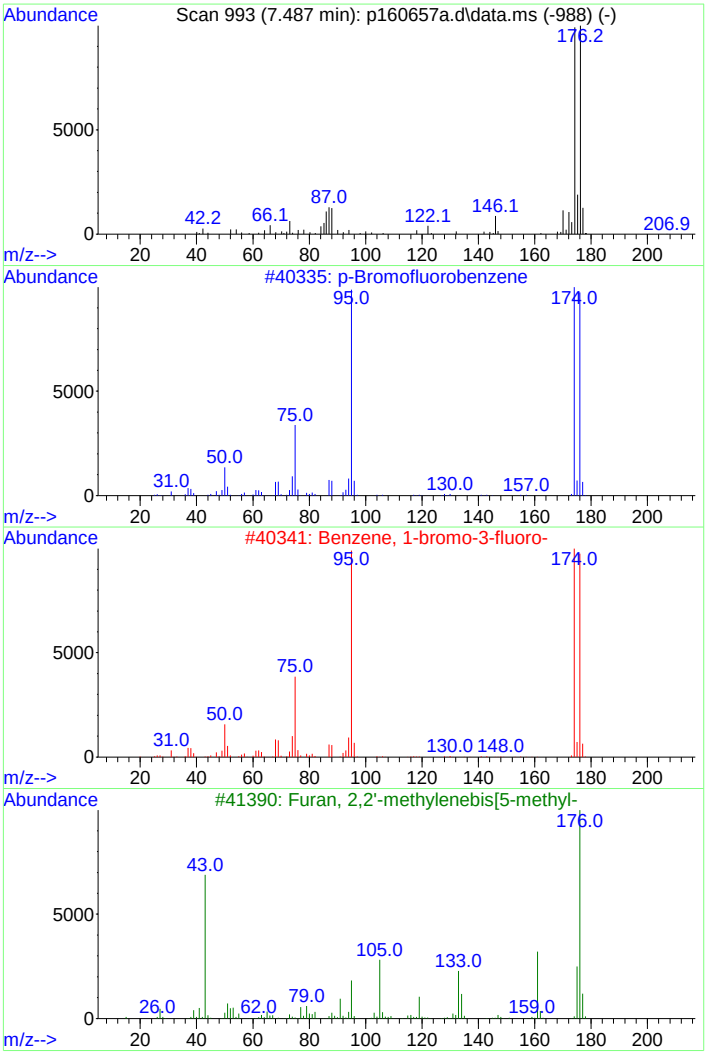
TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: rteint.p

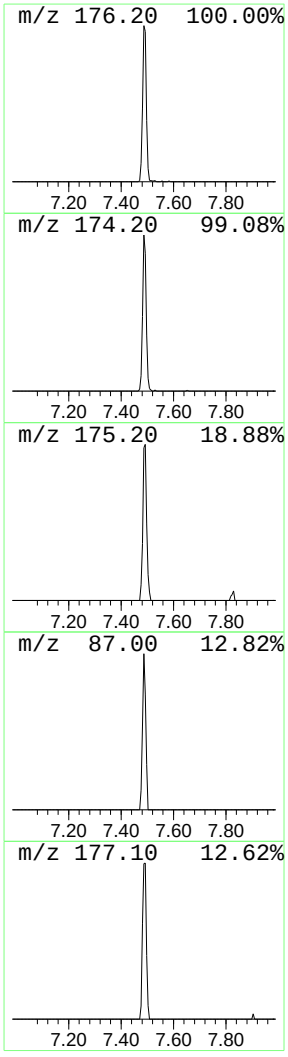
****

Peak Number 3 Internal standard added for... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.487	4.06 ppm	130586	Acenaphthene-d10A	6.931

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Bromofluorobenzene	174	C6H4BrF	000460-00-4	64
2	Benzene, 1-bromo-3-fluoro-	174	C6H4BrF	001073-06-9	39
3	Furan, 2,2'-methylenebis[5-methyl-	176	C11H12O2	013679-43-1	27
4	Trifluoromethylbenzene, 3,4-diam...	176	C7H7F3N2	000368-71-8	17
5	Furo[3,2-E]-2,1,3-benzoxadiazole...	174	C9H6N2O2	216218-89-2	17





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\jezreelo\EP7514\
Data File : p160657a.d
Acq On : 2 Jul 2024 1:16 pm
Operator : karimam
Sample : op55776-mb1
Misc : op55776,ep7514,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MP7505ap9.M
Quant Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um

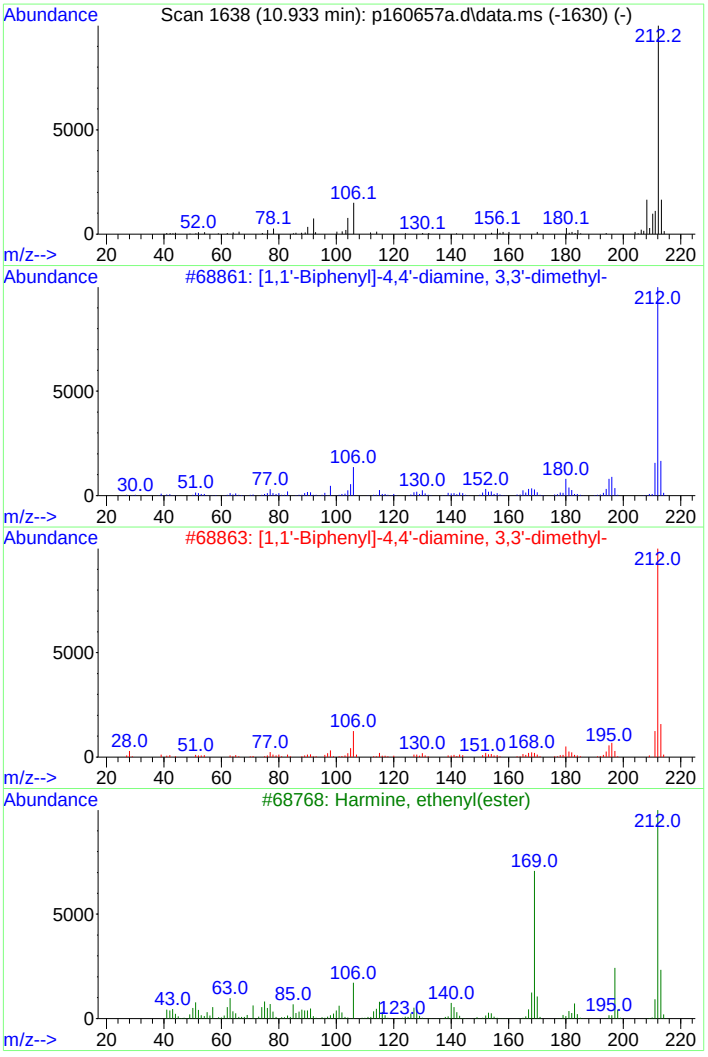
TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: rteint.p

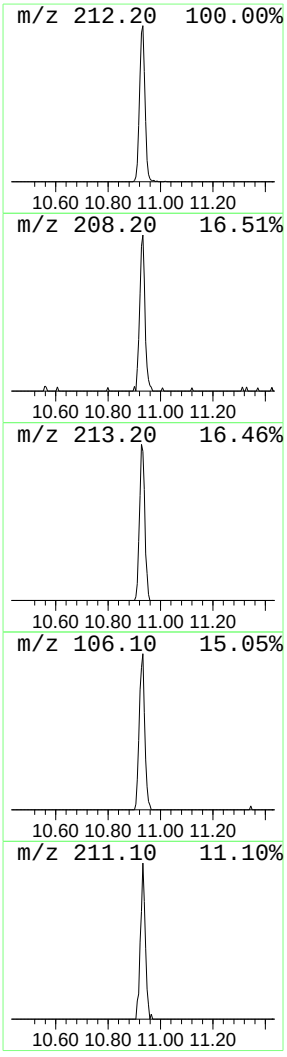
****

Peak Number 4 Internal standard added for... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.933	4.24 ppm	148410	Phenanthrene-d10b	8.801

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4,4'-diamine, 3,...	212	C14H16N2	000119-93-7	64
2	[1,1'-Biphenyl]-4,4'-diamine, 3,...	212	C14H16N2	000119-93-7	64
3	Harmine, ethenyl(ester)	212	C14H12O2	074797-84-5	64
4	9H-Xanthene-9-thione	212	C13H8OS	000492-21-7	59
5	Naphtho[2,3-b]thiophene, 4,9-dim...	212	C14H12S	016587-34-1	59





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\jezreelo\EP7514\
Data File : p160657a.d
Acq On : 2 Jul 2024 1:16 pm
Operator : karimam
Sample : op55776-mb1
Misc : op55776,ep7514,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\jezreelo\Methods\MP7505ap9.M
Quant Title : Semi-Volatiles GC-MS, ZB-5MSplus 30m x 0.25mm x 0.25um

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: rteint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
System artifact	2.476	4.3	ppm	80201	2	4.623	751158	40.0
Internal standa...	6.087	4.1	ppm	106915	9	5.526	1052620	40.0
Internal standa...	7.487	4.1	ppm	130586	11	6.931	1286500	40.0
Internal standa...	10.933	4.2	ppm	148410	14	8.801	1401720	40.0

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- DDT/Endrin Breakdown Checks
- GC Identification Summaries (Hits)
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55806-MB1	1G197568.D	1	07/01/24	CP	06/30/24	OP55806	G1G7071

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD91339-12

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0050	0.0026	ug/l	
319-84-6	alpha-BHC	ND	0.0050	0.0026	ug/l	
319-85-7	beta-BHC	ND	0.0050	0.0040	ug/l	
319-86-8	delta-BHC	ND	0.0050	0.0033	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0050	0.0030	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0050	0.0025	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0050	0.0021	ug/l	
57-74-9	Chlordane (alpha and gamma)	ND	0.0050	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.0050	0.0038	ug/l	
72-54-8	4,4'-DDD	ND	0.0050	0.0029	ug/l	
72-55-9	4,4'-DDE	ND	0.0050	0.0025	ug/l	
50-29-3	4,4'-DDT	ND	0.0050	0.0034	ug/l	
72-20-8	Endrin	ND	0.0050	0.0030	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0050	0.0027	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0050	0.0034	ug/l	
53494-70-5	Endrin ketone	ND	0.0050	0.0031	ug/l	
959-98-8	Endosulfan-I	ND	0.0050	0.0026	ug/l	
33213-65-9	Endosulfan-II	ND	0.0050	0.0024	ug/l	
76-44-8	Heptachlor	ND	0.0050	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0050	0.0030	ug/l	
72-43-5	Methoxychlor	ND	0.010	0.0034	ug/l	
8001-35-2	Toxaphene	ND	0.13	0.082	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	98%	10-175%
877-09-8	Tetrachloro-m-xylene	100%	10-175%
2051-24-3	Decachlorobiphenyl	101%	10-128%
2051-24-3	Decachlorobiphenyl	94%	10-128%

Method Blank Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55807-MB1	3G141839.D	1	07/01/24	MLC	06/30/24	OP55807	G3G5198

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD91339-12

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	0.098	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	0.21	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	0.13	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	0.23	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	0.22	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	0.21	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	0.087	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	0.23	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	98%	10-169%
877-09-8	Tetrachloro-m-xylene	101%	10-169%
2051-24-3	Decachlorobiphenyl	88%	10-130%
2051-24-3	Decachlorobiphenyl	84%	10-130%

Method Blank Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55792-MB1	4G9738711.D	1	07/02/24	MLC	07/01/24	OP55792	G4G4376

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.40	0.078	ug/kg	
319-84-6	alpha-BHC	ND	0.40	0.046	ug/kg	
319-85-7	beta-BHC	ND	0.40	0.058	ug/kg	
319-86-8	delta-BHC	ND	0.40	0.060	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.40	0.070	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.40	0.054	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.40	0.060	ug/kg	
57-74-9	Chlordane (alpha and gamma)	ND	0.40	0.054	ug/kg	
60-57-1	Dieldrin	ND	0.40	0.064	ug/kg	
72-54-8	4,4'-DDD	ND	0.40	0.042	ug/kg	
72-55-9	4,4'-DDE	ND	0.40	0.048	ug/kg	
50-29-3	4,4'-DDT	ND	0.40	0.070	ug/kg	
72-20-8	Endrin	ND	0.40	0.058	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.40	0.048	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.40	0.12	ug/kg	
959-98-8	Endosulfan-I	ND	0.40	0.054	ug/kg	
33213-65-9	Endosulfan-II	ND	0.40	0.056	ug/kg	
76-44-8	Heptachlor	ND	0.40	0.052	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.40	0.072	ug/kg	
72-43-5	Methoxychlor	ND	0.40	0.16	ug/kg	
53494-70-5	Endrin ketone	ND	0.40	0.064	ug/kg	
8001-35-2	Toxaphene	ND	5.0	3.3	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	80%	46-145%
877-09-8	Tetrachloro-m-xylene	87%	46-145%
2051-24-3	Decachlorobiphenyl	90%	29-163%
2051-24-3	Decachlorobiphenyl	86%	29-163%

Method Blank Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55825-MB1	5G138923.D	1	07/02/24	TP	07/02/24	OP55825	G5G3662

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD91339-13, JD91339-14

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.40	0.078	ug/kg	
319-84-6	alpha-BHC	ND	0.40	0.046	ug/kg	
319-85-7	beta-BHC	ND	0.40	0.058	ug/kg	
319-86-8	delta-BHC	ND	0.40	0.060	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.40	0.070	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.40	0.054	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.40	0.060	ug/kg	
57-74-9	Chlordane (alpha and gamma)	ND	0.40	0.054	ug/kg	
60-57-1	Dieldrin	ND	0.40	0.064	ug/kg	
72-54-8	4,4'-DDD	ND	0.40	0.042	ug/kg	
72-55-9	4,4'-DDE	ND	0.40	0.048	ug/kg	
50-29-3	4,4'-DDT	ND	0.40	0.070	ug/kg	
72-20-8	Endrin	ND	0.40	0.058	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.40	0.048	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.40	0.12	ug/kg	
959-98-8	Endosulfan-I	ND	0.40	0.054	ug/kg	
33213-65-9	Endosulfan-II	ND	0.40	0.056	ug/kg	
76-44-8	Heptachlor	ND	0.40	0.052	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.40	0.072	ug/kg	
72-43-5	Methoxychlor	ND	0.40	0.16	ug/kg	
53494-70-5	Endrin ketone	ND	0.40	0.064	ug/kg	
8001-35-2	Toxaphene	ND	5.0	3.3	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	74%	46-145%
877-09-8	Tetrachloro-m-xylene	96%	46-145%
2051-24-3	Decachlorobiphenyl	80%	29-163%
2051-24-3	Decachlorobiphenyl	68%	29-163%

Method Blank Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55793-MB1	RM25023.D	1	07/01/24	MLC	07/01/24	OP55793	GRM560

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	8.5	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.7	ug/kg	
11141-16-5	Aroclor 1232	ND	20	17	ug/kg	
53469-21-9	Aroclor 1242	ND	20	12	ug/kg	
12672-29-6	Aroclor 1248	ND	20	4.3	ug/kg	
11097-69-1	Aroclor 1254	ND	20	2.2	ug/kg	
11096-82-5	Aroclor 1260	ND	20	6.9	ug/kg	
11100-14-4	Aroclor 1268	ND	20	2.0	ug/kg	
37324-23-5	Aroclor 1262	ND	20	1.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	84%	42-159%
877-09-8	Tetrachloro-m-xylene	91%	42-159%
2051-24-3	Decachlorobiphenyl	100%	18-154%
2051-24-3	Decachlorobiphenyl	103%	18-154%

Method Blank Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55826-MB1	RL18042.D	1	07/02/24	MLC	07/02/24	OP55826	GRL401

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD91339-13, JD91339-14

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	20	8.5	ug/kg	
11104-28-2	Aroclor 1221	ND	20	6.7	ug/kg	
11141-16-5	Aroclor 1232	ND	20	17	ug/kg	
53469-21-9	Aroclor 1242	ND	20	12	ug/kg	
12672-29-6	Aroclor 1248	ND	20	4.3	ug/kg	
11097-69-1	Aroclor 1254	ND	20	2.2	ug/kg	
11096-82-5	Aroclor 1260	ND	20	6.9	ug/kg	
11100-14-4	Aroclor 1268	ND	20	2.0	ug/kg	
37324-23-5	Aroclor 1262	ND	20	1.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	82%	42-159%
877-09-8	Tetrachloro-m-xylene	97%	42-159%
2051-24-3	Decachlorobiphenyl	89%	18-154%
2051-24-3	Decachlorobiphenyl	95%	18-154%

Blank Spike Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55792-BS1	4G9738712.D	1	07/02/24	MLC	07/01/24	OP55792	G4G4376

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	5	4.3	86	71-115
319-84-6	alpha-BHC	5	4.5	90	69-110
319-85-7	beta-BHC	5	4.9	98	67-115
319-86-8	delta-BHC	5	4.2	84	58-110
58-89-9	gamma-BHC (Lindane)	5	4.3	86	70-108
5103-71-9	alpha-Chlordane	5	4.6	92	69-112
5103-74-2	gamma-Chlordane	5	4.7	94	68-111
57-74-9	Chlordane (alpha and gamma)	10	9.3	93	67-110
60-57-1	Dieldrin	5	4.7	94	71-112
72-54-8	4,4'-DDD	5	4.9	98	69-120
72-55-9	4,4'-DDE	5	4.9	98	71-108
50-29-3	4,4'-DDT	5	4.8	96	57-112
72-20-8	Endrin	5	5.1	102	71-121
1031-07-8	Endosulfan sulfate	5	4.0	80	68-108
7421-93-4	Endrin aldehyde	5	4.5	90	66-126
959-98-8	Endosulfan-I	5	4.7	94	65-114
33213-65-9	Endosulfan-II	5	4.6	92	65-115
76-44-8	Heptachlor	5	4.7	94	66-114
1024-57-3	Heptachlor epoxide	5	4.8	96	69-118
72-43-5	Methoxychlor	5	5.4	108	61-111
53494-70-5	Endrin ketone	5	4.9	98	70-108

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	80%	46-145%
877-09-8	Tetrachloro-m-xylene	91%	46-145%
2051-24-3	Decachlorobiphenyl	92%	29-163%
2051-24-3	Decachlorobiphenyl	91%	29-163%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55825-BS1	5G138924.D	1	07/02/24	TP	07/02/24	OP55825	G5G3662

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD91339-13, JD91339-14

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	5	4.9	98	71-115
319-84-6	alpha-BHC	5	5.0	100	69-110
319-85-7	beta-BHC	5	4.5	90	67-115
319-86-8	delta-BHC	5	4.6	92	58-110
58-89-9	gamma-BHC (Lindane)	5	4.7	94	70-108
5103-71-9	alpha-Chlordane	5	4.7	94	69-112
5103-74-2	gamma-Chlordane	5	4.7	94	68-111
57-74-9	Chlordane (alpha and gamma)	10	9.4	94	67-110
60-57-1	Dieldrin	5	4.7	94	71-112
72-54-8	4,4'-DDD	5	4.4	88	69-120
72-55-9	4,4'-DDE	5	4.8	96	71-108
50-29-3	4,4'-DDT	5	4.5	90 [a]	57-112
72-20-8	Endrin	5	4.9	98	71-121
1031-07-8	Endosulfan sulfate	5	4.4	88 [a]	68-108
7421-93-4	Endrin aldehyde	5	4.5	90 [a]	66-126
959-98-8	Endosulfan-I	5	4.1	82	65-114
33213-65-9	Endosulfan-II	5	4.6	92	65-115
76-44-8	Heptachlor	5	4.5	90	66-114
1024-57-3	Heptachlor epoxide	5	4.6	92	69-118
72-43-5	Methoxychlor	5	4.1	82	61-111
53494-70-5	Endrin ketone	5	4.4	88 [a]	70-108

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	71%	46-145%
877-09-8	Tetrachloro-m-xylene	97%	46-145%
2051-24-3	Decachlorobiphenyl	76%	29-163%
2051-24-3	Decachlorobiphenyl	68%	29-163%

(a) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55793-BS1	RM25024.D	1	07/01/24	MLC	07/01/24	OP55793	GRM560

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	40	36.3	91	74-153
11104-28-2	Aroclor 1221		ND		50-150
11141-16-5	Aroclor 1232		ND		50-150
53469-21-9	Aroclor 1242		ND		50-150
12672-29-6	Aroclor 1248		ND		50-150
11097-69-1	Aroclor 1254		ND		50-150
11096-82-5	Aroclor 1260	40	37.5	94	68-147
11100-14-4	Aroclor 1268		ND		50-150
37324-23-5	Aroclor 1262		ND		50-150

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	85%	42-159%
877-09-8	Tetrachloro-m-xylene	89%	42-159%
2051-24-3	Decachlorobiphenyl	100%	18-154%
2051-24-3	Decachlorobiphenyl	104%	18-154%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55826-BS1	RL18043.D	1	07/02/24	MLC	07/02/24	OP55826	GRL401

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD91339-13, JD91339-14

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	40	36.2	91	74-153
11104-28-2	Aroclor 1221		ND		50-150
11141-16-5	Aroclor 1232		ND		50-150
53469-21-9	Aroclor 1242		ND		50-150
12672-29-6	Aroclor 1248		ND		50-150
11097-69-1	Aroclor 1254		ND		50-150
11096-82-5	Aroclor 1260	40	33.0	83	68-147
11100-14-4	Aroclor 1268		ND		50-150
37324-23-5	Aroclor 1262		ND		50-150

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	83%	42-159%
877-09-8	Tetrachloro-m-xylene	97%	42-159%
2051-24-3	Decachlorobiphenyl	89%	18-154%
2051-24-3	Decachlorobiphenyl	94%	18-154%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55806-BS1	1G197569.D	1	07/01/24	CP	06/30/24	OP55806	G1G7071
OP55806-BSD	1G197570.D	1	07/02/24	CP	06/30/24	OP55806	G1G7071

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD91339-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	0.25	0.21	84	0.20	80	5	40-161/45
319-84-6	alpha-BHC	0.25	0.25	100	0.24	96	4	40-169/48
319-85-7	beta-BHC	0.25	0.25	100	0.24	96	4	40-166/44
319-86-8	delta-BHC	0.25	0.24	96	0.23	92	4	40-158/47
58-89-9	gamma-BHC (Lindane)	0.25	0.24	96	0.23	92	4	40-169/47
5103-71-9	alpha-Chlordane	0.25	0.23	92	0.22	88	4	40-172/43
5103-74-2	gamma-Chlordane	0.25	0.22	88	0.21	84	5	40-177/48
57-74-9	Chlordane (alpha and gamma)	0.5	0.45	90	0.43	86	5	40-171/43
60-57-1	Dieldrin	0.25	0.24	96	0.24	96	0	40-175/44
72-54-8	4,4'-DDD	0.25	0.25	100	0.25	100	0	40-166/45
72-55-9	4,4'-DDE	0.25	0.25	100	0.25	100	4	40-165/45
50-29-3	4,4'-DDT	0.25	0.26	104	0.26	104	0	40-187/48
72-20-8	Endrin	0.25	0.25	100	0.24	96	4	40-179/46
1031-07-8	Endosulfan sulfate	0.25	0.23	92	0.22	88	4	40-168/49
7421-93-4	Endrin aldehyde	0.25	0.24	96	0.23	92	4	40-165/54
53494-70-5	Endrin ketone	0.25	0.25	100	0.24	96	4	40-165/46
959-98-8	Endosulfan-I	0.25	0.26	104	0.18	72	53* [a]	40-168/45
33213-65-9	Endosulfan-II	0.25	0.25	100	0.25	100	0	40-183/46
76-44-8	Heptachlor	0.25	0.22	88	0.21	84	5	40-165/46
1024-57-3	Heptachlor epoxide	0.25	0.23	92	0.22	88	4	40-171/44
72-43-5	Methoxychlor	0.25	0.22	88	0.21	84	5	40-175/52

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	91%	86%	10-175%
877-09-8	Tetrachloro-m-xylene	91%	87%	10-175%
2051-24-3	Decachlorobiphenyl	88%	85%	10-128%
2051-24-3	Decachlorobiphenyl	80%	79%	10-128%

(a) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55807-BS1	3G141840.D	1	07/01/24	MLC	06/30/24	OP55807	G3G5198
OP55807-BSD	3G141841.D	1	07/01/24	MLC	06/30/24	OP55807	G3G5198

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD91339-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	2	2.1	105	2.1	105	0	40-152/49
11104-28-2	Aroclor 1221		ND		ND		nc	50-150/30
11141-16-5	Aroclor 1232		ND		ND		nc	50-150/30
53469-21-9	Aroclor 1242		ND		ND		nc	50-150/30
12672-29-6	Aroclor 1248		ND		ND		nc	50-150/30
11097-69-1	Aroclor 1254		ND		ND		nc	50-150/30
11096-82-5	Aroclor 1260	2	1.8	90	1.7	85	6	29-157/55
11100-14-4	Aroclor 1268		ND		ND		nc	50-150/30
37324-23-5	Aroclor 1262		ND		ND		nc	50-150/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	88%	90%	10-169%
877-09-8	Tetrachloro-m-xylene	92%	95%	10-169%
2051-24-3	Decachlorobiphenyl	73%	66%	10-130%
2051-24-3	Decachlorobiphenyl	69%	62%	10-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55792-MS	4G9738722.D	1	07/02/24	MLC	07/01/24	OP55792	G4G4376
OP55792-MSD	4G9738723.D	1	07/02/24	MLC	07/01/24	OP55792	G4G4376
JD91339-1	4G9738724.D	1	07/02/24	MLC	07/01/24	OP55792	G4G4376

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

CAS No.	Compound	JD91339-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		5.46	5.2	95	5.25	4.7	89	10	34-125/32
319-84-6	alpha-BHC	ND		5.46	5.3	97	5.25	4.7	89	12	43-124/28
319-85-7	beta-BHC	ND		5.46	4.0	73	5.25	3.0	57	29	21-145/34
319-86-8	delta-BHC	ND		5.46	4.9	90	5.25	4.5	86	9	36-119/32
58-89-9	gamma-BHC (Lindane)	ND		5.46	5.2	95	5.25	4.7	89	10	48-118/28
5103-71-9	alpha-Chlordane	0.24	J	5.46	5.7	100	5.25	5.3	96	7	28-132/33
5103-74-2	gamma-Chlordane	ND		5.46	4.9	90	5.25	4.6	88	6	20-132/33
57-74-9	Chlordane (alpha and gamma)	0.30	J	10.9	10.1	90	10.5	9.6	89	5	20-125/32
60-57-1	Dieldrin	0.17	J	5.46	5.4	96	5.25	5.0	92	8	32-134/32
72-54-8	4,4'-DDD	ND		5.46	5.0	92	5.25	4.8	91	4	28-135/33
72-55-9	4,4'-DDE	1.1		5.46	6.1	92	5.25	5.8	89	5	23-133/32
50-29-3	4,4'-DDT	1.7		5.46	8.3	121	5.25	7.4	109	11	10-144/41
72-20-8	Endrin	ND		5.46	5.5	101	5.25	5.3	101	4	33-143/33
1031-07-8	Endosulfan sulfate	ND		5.46	3.9	71	5.25	3.9	74	0	18-133/34
7421-93-4	Endrin aldehyde	ND		5.46	4.2	77	5.25	4.3	82	2	20-139/36
959-98-8	Endosulfan-I	ND		5.46	5.0	92	5.25	4.5	86	11	32-127/31
33213-65-9	Endosulfan-II	ND		5.46	4.6	84	5.25	4.3	82	7	28-128/33
76-44-8	Heptachlor	ND		5.46	5.8	106	5.25	5.4	103	7	30-133/34
1024-57-3	Heptachlor epoxide	0.13	J	5.46	5.6	103	5.25	5.2	99	7	37-131/32
72-43-5	Methoxychlor	ND		5.46	6.4	117	5.25	7.2	137* [a]	12	13-136/37
53494-70-5	Endrin ketone	ND		5.46	7.9	145	5.25	7.0	133	12	24-149/34
8001-35-2	Toxaphene	ND			ND			ND		nc	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	JD91339-1	Limits
877-09-8	Tetrachloro-m-xylene	84%	80%	82%	46-145%
877-09-8	Tetrachloro-m-xylene	106%	99%	96%	46-145%
2051-24-3	Decachlorobiphenyl	87%	92%	81%	29-163%
2051-24-3	Decachlorobiphenyl	121%	118%	116%	29-163%

(a) Outside of in house control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55825-MS	5G138925.D	1	07/02/24	TP	07/02/24	OP55825	G5G3662
OP55825-MSD	5G138926.D	1	07/02/24	TP	07/02/24	OP55825	G5G3662
JD91383-1	5G138927.D	1	07/02/24	TP	07/02/24	OP55825	G5G3662

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD91339-13, JD91339-14

CAS No.	Compound	JD91383-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		5.34	5.4	101	5.13	5.5	107	2	34-125/32
319-84-6	alpha-BHC	ND		5.34	5.5	103	5.13	5.5	107	0	43-124/28
319-85-7	beta-BHC	ND		5.34	4.7	88	5.13	4.7	92	0	21-145/34
319-86-8	delta-BHC	ND		5.34	4.0	75	5.13	4.0	78	0	36-119/32
58-89-9	gamma-BHC (Lindane)	ND		5.34	5.6	105	5.13	5.6	109	0	48-118/28
5103-71-9	alpha-Chlordane	ND		5.34	5.3	99	5.13	5.4	105	2	28-132/33
5103-74-2	gamma-Chlordane	ND		5.34	5.3	99	5.13	5.3	103	0	20-132/33
57-74-9	Chlordane (alpha and gamma)	ND		10.7	10.0	94	10.3	10.1	98	1	20-125/32
60-57-1	Dieldrin	ND		5.34	4.6	86	5.13	4.6	90	0	32-134/32
72-54-8	4,4'-DDD	ND		5.34	4.4	82	5.13	4.3	84	2	28-135/33
72-55-9	4,4'-DDE	ND		5.34	5.5	103	5.13	5.4	105	2	23-133/32
50-29-3	4,4'-DDT	ND		5.34	4.9	92	5.13	4.8	94	2	10-144/41
72-20-8	Endrin	ND		5.34	4.6	86	5.13	4.5	88	2	33-143/33
1031-07-8	Endosulfan sulfate	ND		5.34	2.8	52	5.13	2.7	53	4	18-133/34
7421-93-4	Endrin aldehyde	ND		5.34	2.4	45	5.13	2.5	49	4	20-139/36
959-98-8	Endosulfan-I	ND		5.34	5.2	97	5.13	5.2	101	0	32-127/31
33213-65-9	Endosulfan-II	ND		5.34	4.1	77	5.13	4.1	80	0	28-128/33
76-44-8	Heptachlor	ND		5.34	5.1	96	5.13	5.0	97	2	30-133/34
1024-57-3	Heptachlor epoxide	ND		5.34	4.9	92	5.13	4.9	95	0	37-131/32
72-43-5	Methoxychlor	ND		5.34	3.7	69	5.13	3.5	68	6	13-136/37
53494-70-5	Endrin ketone	ND		5.34	3.5	66	5.13	3.5	68	0	24-149/34
8001-35-2	Toxaphene	ND			ND			ND		nc	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	JD91383-1	Limits
877-09-8	Tetrachloro-m-xylene	71%	75%	75%	46-145%
877-09-8	Tetrachloro-m-xylene	96%	107%	105%	46-145%
2051-24-3	Decachlorobiphenyl	80%	87%	97%	29-163%
2051-24-3	Decachlorobiphenyl	69%	76%	74%	29-163%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55793-MS	RM25025.D	1	07/01/24	MLC	07/01/24	OP55793	GRM560
OP55793-MSD	RM25026.D	1	07/01/24	MLC	07/01/24	OP55793	GRM560
JD91339-2	RM25027.D	1	07/01/24	MLC	07/01/24	OP55793	GRM560

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

CAS No.	Compound	JD91339-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		42	35.6	85	41.2	35.0	85	2	41-167/46
11104-28-2	Aroclor 1221	ND			ND			ND		nc	50-150/30
11141-16-5	Aroclor 1232	ND			ND			ND		nc	50-150/30
53469-21-9	Aroclor 1242	ND			ND			ND		nc	50-150/17
12672-29-6	Aroclor 1248	ND			ND			ND		nc	50-150/16
11097-69-1	Aroclor 1254	ND			ND			ND		nc	10-165/38
11096-82-5	Aroclor 1260	ND		42	42.9	102	41.2	40.9	99	5	13-183/49
11100-14-4	Aroclor 1268	ND			ND			ND		nc	50-150/30
37324-23-5	Aroclor 1262	ND			ND			ND		nc	50-150/11

CAS No.	Surrogate Recoveries	MS	MSD	JD91339-2	Limits
877-09-8	Tetrachloro-m-xylene	79%	80%	77%	42-159%
877-09-8	Tetrachloro-m-xylene	86%	88%	89%	42-159%
2051-24-3	Decachlorobiphenyl	91%	87%	85%	18-154%
2051-24-3	Decachlorobiphenyl	123%	119%	123%	18-154%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP55826-MS	RL18045.D	1	07/02/24	MLC	07/02/24	OP55826	GRL401
OP55826-MSD	RL18046.D	1	07/02/24	MLC	07/02/24	OP55826	GRL401
JD91339-13	RL18047.D	1	07/02/24	MLC	07/02/24	OP55826	GRL401

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD91339-13, JD91339-14

CAS No.	Compound	JD91339-13 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		43.7	36.0	82	42.8	35.0	82	3	41-167/46
11104-28-2	Aroclor 1221	ND			ND			ND		nc	50-150/30
11141-16-5	Aroclor 1232	ND			ND			ND		nc	50-150/30
53469-21-9	Aroclor 1242	ND			ND			ND		nc	50-150/17
12672-29-6	Aroclor 1248	ND			ND			ND		nc	50-150/16
11097-69-1	Aroclor 1254	ND			ND			ND		nc	10-165/38
11096-82-5	Aroclor 1260	ND		43.7	42.2	97	42.8	40.5	95	4	13-183/49
11100-14-4	Aroclor 1268	ND			ND			ND		nc	50-150/30
37324-23-5	Aroclor 1262	ND			ND			ND		nc	50-150/11

CAS No.	Surrogate Recoveries	MS	MSD	JD91339-13	Limits
877-09-8	Tetrachloro-m-xylene	83%	82%	80%	42-159%
877-09-8	Tetrachloro-m-xylene	97%	98%	97%	42-159%
2051-24-3	Decachlorobiphenyl	86%	85%	83%	18-154%
2051-24-3	Decachlorobiphenyl	96%	99%	98%	18-154%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7071-CC6859	**Injection Date:**	07/01/24
Lab File ID:	1G197566.D	**Injection Time:**	23:02
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal [a]	362997836	1.26	467282198	1.30
Check Std [b]	389737159	1.03	407451426	1.06
Upper Limit [c]	544496754	1.53	700923297	1.56
Lower Limit [d]	181498918	0.53	233641099	0.56

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP55806A-MB1	423570652	1.03	432102254	1.06
OP55806-MB1	423570652	1.03	432102254	1.06
OP55806-BS1	423206735	1.03	428720673	1.06
OP55806A-BS1	423206735	1.03	428720673	1.06
OP55806-BSD	422009706	1.03	444604930	1.06
OP55806A-BSD	422009706	1.03	444604930	1.06
OP55806A-BS13	414790662	1.03	449721182	1.06
OP55806A-BS14	461104979	1.03	477396616	1.06
OP55772-MB1	433912132	1.03	456449946	1.06
OP55772A-MB1	433912132	1.03	456449946	1.06
OP55772A-BS1	424054018	1.03	440635835	1.06
OP55772-BS1	424054018	1.03	440635835	1.06
OP55772-BSD	427438683	1.03	446368864	1.06
OP55772A-BSD	427438683	1.03	446368864	1.06
OP55772A-BS13	434544500	1.03	460458691	1.06
OP55772A-BS14	499325797	1.03	511353812	1.06
OP55772A-MB2 [e]	417908896	1.03	438472126	1.06
OP55772A-BS2 [e]	448980730	1.03	464243795	1.06
OP55772A-BSD2 [e]	487124670	1.03	503393261	1.06
OP55772A-BS132 [e]	460355607	1.03	478995438	1.06
OP55772A-BS142 [e]	498424349	1.03	517505545	1.06

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Initial Cal is: G1G6859-ICC6859 1G192517.D 01/29/24 07:07. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 0.5 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -0.5 minutes of check standard.
(e) Had Florisil cleanup.

Internal Standard Area Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7072-CC6859	**Injection Date:**	07/02/24
Lab File ID:	1G197586.D	**Injection Time:**	05:17
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal [a]	362997836	1.26	467282198	1.30
Check Std [b]	385690259	1.03	418607445	1.05
Upper Limit [c]	544496754	1.53	700923297	1.55
Lower Limit [d]	181498918	0.53	233641099	0.55

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
ZZZZZZ	512393339	1.03	477939190	1.05
ZZZZZZ	407357487	1.02	359629696	1.05
ZZZZZZ	468791624	1.02	459666826	1.05
ZZZZZZ	421362692	1.03	443083672	1.05
JD91339-12	431856557	1.03	450397086	1.06
ZZZZZZ	432340483	1.03	440904332	1.06
ZZZZZZ	427839050	1.03	461855416	1.06
ZZZZZZ	383185836	1.03	287473901	1.05
ZZZZZZ	364660784	1.03	297271644	1.05
ZZZZZZ	409245106	1.03	424139477	1.06
ZZZZZZ	327925251	1.02	290496707	1.05
ZZZZZZ	357781494	1.03	353561879	1.05
ZZZZZZ	435565704	1.02	472755099	1.05
ZZZZZZ	449611712	1.03	473146987	1.06

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Initial Cal is: G1G6859-ICC6859 1G192517.D 01/29/24 07:07. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 0.5 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -0.5 minutes of check standard.

Internal Standard Area Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT
Initial Cal [a]	464878714	6.10	1033158764	5.81
Check Std [b]	488800740	6.08	928639520	5.80
Upper Limit [c]	697318071	6.58	1549738146	6.30
Lower Limit [d]	232439357	5.58	516579382	5.30

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT
OP55790-MB1 [e]	428450499	6.11	747333315	5.83
OP55792-MB1	518633462	6.08	966434062	5.80
OP55792-BS1	488561510	6.08	931289866	5.81
ZZZZZZ	526584061	6.08	936628935	5.80
ZZZZZZ	509872402	6.08	900958052	5.81
ZZZZZZ	511866011	6.08	914349805	5.80
ZZZZZZ	417302824	6.08	728122843	5.81
ZZZZZZ	378852623	6.08	757479153	5.81
ZZZZZZ	419579983	6.08	760711495	5.81
ZZZZZZ	385765861	6.08	729568716	5.81
OP55792-MS	428590269	6.08	879606952	5.81
OP55792-MSD	422068955	6.08	909226809	5.80
JD91339-1	420569855	6.08	913942681	5.80
JD91339-2	402842446	5.08	169396841	3* 5.80
JD91339-3	421433463	6.08	381252251	7* 5.81
JD91339-4	423928362	5.08	196468130	6* 5.81
JD91339-5	397631110	2.08	277660037	5* 5.81
JD91339-6	429291111	0.08	176873875	6* 5.80
JD91339-7	361312089	4.08	824873219	5.80
JD91339-8	418247047	4.08	895990534	5.80
JD91339-9	413787283	2.08	889805283	5.80
JD91339-10	417719330	4.08	895838730	5.80
JD91339-11	385882353	6.08	793804535	5.80

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Initial Cal is: G4G4352-ICC4352 4G9738058.D 06/06/24 20:33. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 0.5 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -0.5 minutes of check standard.
(e) Had TBA cleanup.

Internal Standard Area Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3662-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138921.D	**Injection Time:**	15:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT
Initial Cal [a]	2070368692	4.92	2006757540	4.62
Check Std [b]	1991345707	4.92	1531882047	4.62
Upper Limit [c]	3105553035	5.42	3010136310	5.12
Lower Limit [d]	1035184346	4.42	1003378770	4.12

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT
OP55825-MB1	1749004564	4.92	1405022236	4.62
OP55825-BS1	1733019663	4.92	1516506468	4.62
OP55825-MS	1690463031	4.92	1473672857	4.62
OP55825-MSD	1514970090	4.92	1285676767	4.62
JD91383-1	1593357293	4.92	1358603035	4.62
JD91339-13	1568927762	4.91	1425825662	4.62
JD91339-14	1416552976	4.91	1290341356	4.62
ZZZZZZ	1574377720	4.91	1113825352	4.62
ZZZZZZ	1523835204	4.92	1352267660	4.62
ZZZZZZ	1522099312	4.92	1377736676	4.62
ZZZZZZ	1471994121	4.92	1625992912	4.62
ZZZZZZ	1521167847	4.91	1516875205	4.62
ZZZZZZ	1470823981	4.92	1977245645	4.62
ZZZZZZ	1406304368	4.91	1623455322	4.62
ZZZZZZ	1558011382	4.91	1472695168	4.62
ZZZZZZ	1107539753	4.94	1487963505	4.64

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Initial Cal is: G5G3634-ICC3634 5G138220.D 06/05/24 11:18. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 0.5 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -0.5 minutes of check standard.

Internal Standard Area Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2531-CC2430	**Injection Date:**	07/03/24
Lab File ID:	8G57860.D	**Injection Time:**	17:30
Instrument ID:	GC8G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal [a]	983345442	4.93	690047387	4.46
Check Std [b]	514421343	4.66	776021914	4.25
Upper Limit [c]	1475018163	5.16	1035071081	4.75
Lower Limit [d]	491672721	4.16	345023694	3.75

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP55866-MB1	492310543	4.70	713540707	4.28
OP55866-BS1	517155862	4.66	723307191	4.26
OP55866-MS	499143706	4.66	683298440	4.26
OP55866-MSD	529560622	4.66	726687179	4.25
JD91465-1	526560010	4.66	716719486	4.25
ZZZZZZ	524008917	4.66	697447215	4.25
ZZZZZZ	518263699	4.66	693925246	4.25
ZZZZZZ	526300556	4.65	703528332	4.25
ZZZZZZ	507776630	4.65	706638818	4.25
ZZZZZZ	535589566	4.66	715546242	4.25
JD91339-9	607264893	4.65	829500818	4.25
JD91339-9	573143773	4.65	803508551	4.25

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Initial Cal is: G8G2430-ICC2430 8G55359.D 04/03/24 07:03. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to + 50% of initial cal area.
(c) Upper Limit = + 50% of initial standard area; Retention time + 0.5 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -0.5 minutes of check standard.

DDT/Endrin Breakdown Check

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G1G6859-DDT	**Injection Date:**	01/29/24
Lab File ID:	1G192510.D	**Injection Time:**	04:36
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	30454895	26937875
4,4'-DDE	8081068	8014062
4,4'-DDT	1465227398	1038255686
DDT Breakdown [a]	2.6 %	3.3 %
Endrin aldehyde	0	0
Endrin ketone	7264382	0
Endrin	860629168	713034344
Endrin Breakdown [b]	0.8 %	0 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G6859-IC6859	1G192513.D	01/29/24	06:02	01:26	Initial cal 1
G1G6859-IC6859	1G192514.D	01/29/24	06:18	01:42	Initial cal 2
G1G6859-IC6859	1G192515.D	01/29/24	06:35	01:59	Initial cal 5
G1G6859-IC6859	1G192516.D	01/29/24	06:51	02:15	Initial cal 10
G1G6859-ICC6859	1G192517.D	01/29/24	07:07	02:31	Initial cal 25
G1G6859-IC6859	1G192518.D	01/29/24	07:23	02:47	Initial cal 50
G1G6859-IC6859	1G192519.D	01/29/24	07:40	03:04	Initial cal 75
G1G6859-IC6859	1G192520.D	01/29/24	07:56	03:20	Initial cal 100
G1G6859-IC6859	1G192521.D	01/29/24	08:12	03:36	Initial cal 500
G1G6859-IC6859	1G192522.D	01/29/24	08:28	03:52	Initial cal 500
G1G6859-ICV6859	1G192523.D	01/29/24	08:45	04:09	Initial cal verification 25
G1G6859-ICV6859	1G192524.D	01/29/24	09:01	04:25	Initial cal verification 500
G1G6859-ICV6859	1G192525.D	01/29/24	09:17	04:41	Initial cal verification 500

DDT/Endrin Breakdown Check

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G1G7071-DDT	**Injection Date:**	07/01/24
Lab File ID:	1G197565.D	**Injection Time:**	22:47
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	8402721	10023325
4,4'-DDE	12105681	10900927
4,4'-DDT	680328015	719323042
DDT Breakdown [a]	2.9 %	2.8 %
Endrin aldehyde	1003805	586289
Endrin ketone	3101072	1783365
Endrin	425413586	494234073
Endrin Breakdown [b]	1 %	0.5 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G7071-CC6859	1G197566.D	07/01/24	23:02	00:15	Continuing cal 25
OP55806A-MB1	1G197568.D	07/01/24	23:33	00:46	Method Blank
OP55806-MB1	1G197568.D	07/01/24	23:33	00:46	Method Blank
OP55806A-BS1	1G197569.D	07/01/24	23:48	01:02	Blank Spike
OP55806-BS1	1G197569.D	07/01/24	23:48	01:02	Blank Spike
OP55806A-BSD	1G197570.D	07/02/24	00:03	01:17	Blank Spike Duplicate
OP55806-BSD	1G197570.D	07/02/24	00:03	01:17	Blank Spike Duplicate
OP55806A-BS13	1G197571.D	07/02/24	00:19	01:32	Blank Spike
OP55806A-BS14	1G197572.D	07/02/24	00:34	01:48	Blank Spike
OP55772A-MB1	1G197573.D	07/02/24	00:50	02:03	Method Blank
OP55772-MB1	1G197573.D	07/02/24	00:50	02:03	Method Blank
OP55772A-BS1	1G197574.D	07/02/24	01:05	02:18	Blank Spike
OP55772-BS1	1G197574.D	07/02/24	01:05	02:18	Blank Spike
OP55772-BSD	1G197575.D	07/02/24	01:20	02:34	Blank Spike Duplicate
OP55772A-BSD	1G197575.D	07/02/24	01:20	02:34	Blank Spike Duplicate
OP55772A-BS13	1G197576.D	07/02/24	01:36	02:49	Blank Spike
OP55772A-BS14	1G197577.D	07/02/24	01:51	03:04	Blank Spike
OP55772A-MB2	1G197578.D	07/02/24	02:06	03:20	Method Blank
OP55772A-BS2	1G197579.D	07/02/24	02:21	03:35	Blank Spike
OP55772A-BSD2	1G197580.D	07/02/24	02:37	03:50	Blank Spike Duplicate
OP55772A-BS132	1G197581.D	07/02/24	02:52	04:06	Blank Spike
OP55772A-BS142	1G197582.D	07/02/24	03:08	04:21	Blank Spike
G1G7071-CC6859	1G197583.D	07/02/24	03:23	04:36	Continuing cal 50

DDT/Endrin Breakdown Check

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G1G7072-DDT	**Injection Date:**	07/02/24
Lab File ID:	1G197585.D	**Injection Time:**	05:02
Instrument ID:	GC1G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	7990067	8590339
4,4'-DDE	11607706	8085193
4,4'-DDT	695471449	736509112
DDT Breakdown [a]	2.7 %	2.2 %
Endrin aldehyde	2405945	1262693
Endrin ketone	2067558	3910340
Endrin	421076854	485357470
Endrin Breakdown [b]	1.1 %	1.1 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G7072-CC6859	1G197586.D	07/02/24	05:17	00:15	Continuing cal 25
ZZZZZZ	1G197588.D	07/02/24	05:48	00:46	(unrelated sample)
ZZZZZZ	1G197589.D	07/02/24	06:03	01:01	(unrelated sample)
ZZZZZZ	1G197590.D	07/02/24	06:19	01:17	(unrelated sample)
ZZZZZZ	1G197591.D	07/02/24	06:34	01:32	(unrelated sample)
JD91339-12	1G197592.D	07/02/24	06:49	01:47	FB-3
ZZZZZZ	1G197593.D	07/02/24	07:05	02:03	(unrelated sample)
ZZZZZZ	1G197594.D	07/02/24	07:20	02:18	(unrelated sample)
ZZZZZZ	1G197595.D	07/02/24	07:35	02:33	(unrelated sample)
ZZZZZZ	1G197596.D	07/02/24	07:51	02:49	(unrelated sample)
ZZZZZZ	1G197597.D	07/02/24	08:06	03:04	(unrelated sample)
ZZZZZZ	1G197598.D	07/02/24	08:21	03:19	(unrelated sample)
ZZZZZZ	1G197599.D	07/02/24	08:37	03:34	(unrelated sample)
ZZZZZZ	1G197600.D	07/02/24	08:52	03:50	(unrelated sample)
ZZZZZZ	1G197601.D	07/02/24	09:07	04:05	(unrelated sample)
G1G7072-CC6859	1G197604.D	07/02/24	09:53	04:51	Continuing cal 50

DDT/Endrin Breakdown Check

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G4G4352-DDT	**Injection Date:**	06/06/24
Lab File ID:	4G9738050.D	**Injection Time:**	17:35
Instrument ID:	GC4G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	20609000	112373285
4,4'-DDE	3674862	36230101
4,4'-DDT	1806037969	7277321618
DDT Breakdown [a]	1.3 %	2 %
Endrin aldehyde	22600036	58771440
Endrin ketone	22606201	104717876
Endrin	1145154644	4200701517
Endrin Breakdown [b]	3.8 %	3.7 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G4G4352-IC4352	4G9738052.D	06/06/24	18:20	00:45	Initial cal 50
G4G4352-IC4352	4G9738053.D	06/06/24	18:42	01:07	Initial cal 50
G4G4352-IC4352	4G9738054.D	06/06/24	19:04	01:29	Initial cal 0.1
G4G4352-IC4352	4G9738055.D	06/06/24	19:26	01:51	Initial cal 0.2
G4G4352-IC4352	4G9738056.D	06/06/24	19:48	02:13	Initial cal 0.5
G4G4352-IC4352	4G9738057.D	06/06/24	20:11	02:36	Initial cal 1
G4G4352-ICC4352	4G9738058.D	06/06/24	20:33	02:58	Initial cal 2.5
G4G4352-IC4352	4G9738059.D	06/06/24	20:55	03:20	Initial cal 5
G4G4352-IC4352	4G9738060.D	06/06/24	21:18	03:43	Initial cal 7.5
G4G4352-IC4352	4G9738061.D	06/06/24	21:40	04:05	Initial cal 10
G4G4352-ICV4352	4G9738062.D	06/06/24	22:02	04:27	Initial cal verification 2.5
G4G4352-ICV4352	4G9738063.D	06/06/24	22:25	04:50	Initial cal verification 50
G4G4352-ICV4352	4G9738064.D	06/06/24	22:47	05:12	Initial cal verification 50

DDT/Endrin Breakdown Check

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G4G4376-DDT	**Injection Date:**	07/02/24
Lab File ID:	4G9738706.D	**Injection Time:**	12:14
Instrument ID:	GC4G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	10795185	95743680
4,4'-DDE	4379423	40095629
4,4'-DDT	2121094135	9402793021
DDT Breakdown [a]	0.7 %	1.4 %
Endrin aldehyde	22989151	48086406
Endrin ketone	17461606	97776430
Endrin	1138475833	5341443691
Endrin Breakdown [b]	3.4 %	2.7 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G4G4376-CC4352	4G9738707.D	07/02/24	12:36	00:22	Continuing cal 2.5
OP55790-MB1	4G9738709.D	07/02/24	14:00	01:46	Method Blank
OP55792-MB1	4G9738711.D	07/02/24	14:45	02:31	Method Blank
OP55792-BS1	4G9738712.D	07/02/24	15:07	02:53	Blank Spike
ZZZZZZ	4G9738713.D	07/02/24	15:30	03:16	(unrelated sample)
ZZZZZZ	4G9738714.D	07/02/24	15:52	03:38	(unrelated sample)
ZZZZZZ	4G9738715.D	07/02/24	16:14	04:00	(unrelated sample)
ZZZZZZ	4G9738716.D	07/02/24	16:37	04:23	(unrelated sample)
ZZZZZZ	4G9738717.D	07/02/24	16:59	04:45	(unrelated sample)
ZZZZZZ	4G9738718.D	07/02/24	17:21	05:07	(unrelated sample)
ZZZZZZ	4G9738719.D	07/02/24	17:44	05:30	(unrelated sample)
OP55792-MS	4G9738722.D	07/02/24	18:51	06:37	Matrix Spike
OP55792-MSD	4G9738723.D	07/02/24	19:13	06:59	Matrix Spike Duplicate
JD91339-1	4G9738724.D	07/02/24	19:35	07:21	GRID-3
JD91339-2	4G9738725.D	07/02/24	19:58	07:44	GRID-4
JD91339-3	4G9738726.D	07/02/24	20:20	08:06	GRID-20
JD91339-4	4G9738727.D	07/02/24	20:43	08:29	GRID-11
JD91339-5	4G9738728.D	07/02/24	21:05	08:51	GRID-10A
JD91339-6	4G9738729.D	07/02/24	21:28	09:14	GRID-21
JD91339-7	4G9738730.D	07/02/24	21:50	09:36	GRID-9
JD91339-8	4G9738731.D	07/02/24	22:13	09:59	GRID-8A
JD91339-9	4G9738732.D	07/02/24	22:35	10:21	GRID-5
JD91339-10	4G9738733.D	07/02/24	22:58	10:44	GRID-6
JD91339-11	4G9738734.D	07/02/24	23:20	11:06	GRID-7

DDT/Endrin Breakdown Check

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G5G3634-DDT	**Injection Date:**	06/05/24
Lab File ID:	5G138212.D	**Injection Time:**	08:31
Instrument ID:	GC5G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	27772369	30893748
4,4'-DDE	7548576	11590614
4,4'-DDT	4541168099	3631866037
DDT Breakdown [a]	0.8 %	1.2 %
Endrin aldehyde	25767817	77731406
Endrin ketone	47700872	86938741
Endrin	2839711194	2315947197
Endrin Breakdown [b]	2.5 %	6.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G5G3634-IC3634	5G138214.D	06/05/24	09:13	00:42	Initial cal 50
G5G3634-IC3634	5G138215.D	06/05/24	09:34	01:03	Initial cal 50
G5G3634-IC3634	5G138216.D	06/05/24	09:55	01:24	Initial cal 0.1
G5G3634-IC3634	5G138217.D	06/05/24	10:16	01:45	Initial cal 0.2
G5G3634-IC3634	5G138218.D	06/05/24	10:37	02:06	Initial cal 0.5
G5G3634-IC3634	5G138219.D	06/05/24	10:57	02:26	Initial cal 1
G5G3634-ICC3634	5G138220.D	06/05/24	11:18	02:47	Initial cal 2.5
G5G3634-IC3634	5G138221.D	06/05/24	11:39	03:08	Initial cal 5
G5G3634-IC3634	5G138222.D	06/05/24	12:00	03:29	Initial cal 7.5
G5G3634-IC3634	5G138223.D	06/05/24	12:20	03:49	Initial cal 10
G5G3634-ICV3634	5G138224.D	06/05/24	12:41	04:10	Initial cal verification 2.5
G5G3634-ICV3634	5G138225.D	06/05/24	13:02	04:31	Initial cal verification 50
G5G3634-ICV3634	5G138226.D	06/05/24	13:22	04:51	Initial cal verification 50

DDT/Endrin Breakdown Check

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G5G3662-DDT	**Injection Date:**	07/02/24
Lab File ID:	5G138920.D	**Injection Time:**	15:14
Instrument ID:	GC5G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	46703129	63219352
4,4'-DDE	6190323	8433854
4,4'-DDT	3818107613	3207279584
DDT Breakdown [a]	1.4 %	2.2 %
Endrin aldehyde	13946676	25688953
Endrin ketone	44766682	58130639
Endrin	2333520128	2286951475
Endrin Breakdown [b]	2.5 %	3.5 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G5G3662-CC3634	5G138921.D	07/02/24	15:35	00:21	Continuing cal 2.5
OP55825-MB1	5G138923.D	07/02/24	16:16	01:02	Method Blank
OP55825-BS1	5G138924.D	07/02/24	16:37	01:23	Blank Spike
OP55825-MS	5G138925.D	07/02/24	16:57	01:43	Matrix Spike
OP55825-MSD	5G138926.D	07/02/24	17:18	02:04	Matrix Spike Duplicate
JD91383-1	5G138927.D	07/02/24	17:38	02:24	(used for QC only; not part of job JD91339)
JD91339-13	5G138928.D	07/02/24	17:59	02:45	DUP-1
JD91339-14	5G138929.D	07/02/24	18:19	03:05	DUP-2
ZZZZZZ	5G138930.D	07/02/24	18:40	03:26	(unrelated sample)
ZZZZZZ	5G138931.D	07/02/24	19:00	03:46	(unrelated sample)
ZZZZZZ	5G138932.D	07/02/24	19:21	04:07	(unrelated sample)
ZZZZZZ	5G138933.D	07/02/24	19:41	04:27	(unrelated sample)
ZZZZZZ	5G138934.D	07/02/24	20:02	04:48	(unrelated sample)
ZZZZZZ	5G138935.D	07/02/24	20:23	05:09	(unrelated sample)
ZZZZZZ	5G138936.D	07/02/24	20:43	05:29	(unrelated sample)
ZZZZZZ	5G138937.D	07/02/24	21:04	05:50	(unrelated sample)
ZZZZZZ	5G138938.D	07/02/24	22:11	06:57	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G8G2430-DDT	**Injection Date:**	04/03/24
Lab File ID:	8G55351.D	**Injection Time:**	00:00
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	10502101	55857861
4,4'-DDE	0	0
4,4'-DDT	1238405481	1682091445
DDT Breakdown [a]	0.8 %	3.2 %
Endrin aldehyde	18535388	10530139
Endrin ketone	15561254	21297902
Endrin	717631228	1231582580
Endrin Breakdown [b]	4.5 %	2.5 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G2430-IC2430	8G55356.D	04/03/24	05:57	05:57	Initial cal 0.2
G8G2430-IC2430	8G55357.D	04/03/24	06:19	06:19	Initial cal 0.5
G8G2430-IC2430	8G55358.D	04/03/24	06:41	06:41	Initial cal 1
G8G2430-ICC2430	8G55359.D	04/03/24	07:03	07:03	Initial cal 2.5
G8G2430-IC2430	8G55360.D	04/03/24	07:24	07:24	Initial cal 5.0
G8G2430-IC2430	8G55361.D	04/03/24	07:46	07:46	Initial cal 7.5
G8G2430-IC2430	8G55362.D	04/03/24	08:08	08:08	Initial cal 10
G8G2430-IC2430	8G55363.D	04/03/24	08:30	08:30	Initial cal 50
G8G2430-IC2430	8G55364.D	04/03/24	08:52	08:52	Initial cal 50
G8G2430-ICV2430	8G55365.D	04/03/24	09:13	09:13	Initial cal verification 2.5
G8G2430-ICV2430	8G55366.D	04/03/24	09:35	09:35	Initial cal verification 50
G8G2430-ICV2430	8G55367.D	04/03/24	09:57	09:57	Initial cal verification 50

DDT/Endrin Breakdown Check

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample:	G8G2531-DDT	**Injection Date:**	07/03/24
Lab File ID:	8G57859.D	**Injection Time:**	17:08
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	24514605	21534891
4,4'-DDE	10921848	3367605
4,4'-DDT	1464360208	1061917600
DDT Breakdown [a]	2.4 %	2.3 %
Endrin aldehyde	8606734	24997434
Endrin ketone	23441419	30590239
Endrin	812501249	706305811
Endrin Breakdown [b]	3.8 %	7.3 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G2531-CC2430	8G57860.D	07/03/24	17:30	00:22	Continuing cal 5
OP55866-MB1	8G57862.D	07/03/24	18:50	01:42	Method Blank
OP55866-BS1	8G57863.D	07/03/24	19:12	02:04	Blank Spike
OP55866-MS	8G57864.D	07/03/24	19:33	02:25	Matrix Spike
OP55866-MSD	8G57865.D	07/03/24	19:55	02:47	Matrix Spike Duplicate
JD91465-1	8G57866.D	07/03/24	20:17	03:09	(used for QC only; not part of job JD91339)
ZZZZZZ	8G57868.D	07/03/24	21:00	03:52	(unrelated sample)
ZZZZZZ	8G57869.D	07/03/24	21:22	04:14	(unrelated sample)
ZZZZZZ	8G57871.D	07/03/24	22:06	04:58	(unrelated sample)
ZZZZZZ	8G57872.D	07/03/24	22:28	05:20	(unrelated sample)
ZZZZZZ	8G57873.D	07/03/24	22:50	05:42	(unrelated sample)
JD91339-9	8G57874.D	07/03/24	23:12	06:04	GRID-5
JD91339-9	8G57875.D	07/03/24	23:34	06:26	GRID-5

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7071-CC6859	**Injection Date:**	07/01/24
Lab File ID:	1G197566.D	**Injection Time:**	23:02
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP55806-BS1	**Injection Date:**	07/01/24
Lab File ID:	1G197569.D	**Injection Time:**	23:48
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	2.72	2.72	0.21		ug/l	13.3
Aldrin	2	3.14	3.14	0.24		ug/l	
alpha-BHC	1 [a]	1.85	1.85	0.25		ug/l	7.7
alpha-BHC	2	2.06	2.06	0.27		ug/l	
beta-BHC	1	2.16	2.16	0.25		ug/l	0.0
beta-BHC	2 [a]	2.46	2.46	0.25		ug/l	
delta-BHC	1	2.31	2.31	0.26		ug/l	8.0
delta-BHC	2 [a]	2.75	2.75	0.24		ug/l	
gamma-BHC (Lindane)	1 [a]	2.08	2.08	0.24		ug/l	8.0
gamma-BHC (Lindane)	2	2.37	2.37	0.26		ug/l	
alpha-Chlordane	1 [a]	3.60	3.60	0.23		ug/l	8.3
alpha-Chlordane	2	4.26	4.26	0.25		ug/l	
gamma-Chlordane	1 [a]	3.46	3.46	0.22		ug/l	16.7
gamma-Chlordane	2	4.07	4.07	0.26		ug/l	
Chlordane (alpha and gamma)	n/a [b]			0.45		ug/l	
Dieldrin	1 [a]	4.04	4.04	0.24		ug/l	11.8
Dieldrin	2	4.72	4.71	0.27		ug/l	
4,4'-DDD	1 [a]	4.49	4.49	0.25		ug/l	7.7
4,4'-DDD	2	5.40	5.40	0.27		ug/l	
4,4'-DDE	1 [a]	3.73	3.73	0.25		ug/l	3.9
4,4'-DDE	2	4.52	4.52	0.26		ug/l	
4,4'-DDT	1 [a]	4.87	4.87	0.26		ug/l	14.3
4,4'-DDT	2	5.89	5.89	0.30		ug/l	
Endrin	1 [a]	4.33	4.33	0.25		ug/l	7.7
Endrin	2	5.16	5.16	0.27		ug/l	
Endosulfan sulfate	1 [a]	5.87	5.87	0.23		ug/l	8.3
Endosulfan sulfate	2	6.51	6.50	0.25		ug/l	
Endrin aldehyde	1 [a]	5.22	5.22	0.24		ug/l	4.1
Endrin aldehyde	2	6.04	6.04	0.25		ug/l	
Endrin ketone	1 [a]	6.31	6.31	0.25		ug/l	7.7
Endrin ketone	2	7.40	7.40	0.27		ug/l	
Endosulfan-I	1	3.75	3.75	0.31		ug/l	17.5
Endosulfan-I	2 [a]	4.33	4.33	0.26		ug/l	
Endosulfan-II	1 [a]	4.64	4.64	0.25		ug/l	7.7
Endosulfan-II	2	5.50	5.50	0.27		ug/l	
Heptachlor	1 [a]	2.45	2.45	0.22		ug/l	16.7
Heptachlor	2	2.80	2.80	0.26		ug/l	
Heptachlor epoxide	1 [a]	3.31	3.31	0.23		ug/l	12.2
Heptachlor epoxide	2	3.82	3.82	0.26		ug/l	
Methoxychlor	1 [a]	5.65	5.65	0.22		ug/l	24.0
Methoxychlor	2	7.11	7.10	0.28		ug/l	

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7071-CC6859	**Injection Date:**	07/01/24
Lab File ID:	1G197566.D	**Injection Time:**	23:02
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP55806-BS1	**Injection Date:**	07/01/24
Lab File ID:	1G197569.D	**Injection Time:**	23:48
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7071-CC6859	**Injection Date:**	07/01/24
Lab File ID:	1G197566.D	**Injection Time:**	23:02
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP55806-BSD	**Injection Date:**	07/02/24
Lab File ID:	1G197570.D	**Injection Time:**	00:03
Client ID:	Blank Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	2.72	2.72	0.20		ug/l	14.0
Aldrin	2	3.14	3.14	0.23		ug/l	
alpha-BHC	1 [a]	1.85	1.85	0.24		ug/l	8.0
alpha-BHC	2	2.06	2.06	0.26		ug/l	
beta-BHC	1 [a]	2.16	2.16	0.24		ug/l	0.0
beta-BHC	2	2.46	2.46	0.24		ug/l	
delta-BHC	1	2.31	2.31	0.25		ug/l	8.3
delta-BHC	2 [a]	2.75	2.75	0.23		ug/l	
gamma-BHC (Lindane)	1 [a]	2.08	2.08	0.23		ug/l	8.3
gamma-BHC (Lindane)	2	2.37	2.37	0.25		ug/l	
alpha-Chlordane	1 [a]	3.60	3.60	0.22		ug/l	8.7
alpha-Chlordane	2	4.26	4.26	0.24		ug/l	
gamma-Chlordane	1 [a]	3.46	3.46	0.21		ug/l	13.3
gamma-Chlordane	2	4.07	4.07	0.24		ug/l	
Chlordane (alpha and gamma)	n/a [b]			0.43		ug/l	
Dieldrin	1 [a]	4.04	4.04	0.24		ug/l	8.0
Dieldrin	2	4.71	4.71	0.26		ug/l	
4,4'-DDD	1 [a]	4.49	4.49	0.25		ug/l	0.0
4,4'-DDD	2	5.40	5.40	0.25		ug/l	
4,4'-DDE	1	3.75	3.73	0.35		ug/l	33.3
4,4'-DDE	2 [a]	4.52	4.52	0.25		ug/l	
4,4'-DDT	1 [a]	4.87	4.87	0.26		ug/l	10.9
4,4'-DDT	2	5.89	5.89	0.29		ug/l	
Endrin	1 [a]	4.33	4.33	0.24		ug/l	8.0
Endrin	2	5.16	5.16	0.26		ug/l	
Endosulfan sulfate	1 [a]	5.87	5.87	0.22		ug/l	12.8
Endosulfan sulfate	2	6.50	6.50	0.25		ug/l	
Endrin aldehyde	1 [a]	5.22	5.22	0.23		ug/l	4.3
Endrin aldehyde	2	6.04	6.04	0.24		ug/l	
Endrin ketone	1 [a]	6.31	6.31	0.24		ug/l	8.0
Endrin ketone	2	7.40	7.40	0.26		ug/l	
Endosulfan-I	1 [a]	3.73	3.75	0.18		ug/l	28.6
Endosulfan-I	2	4.33	4.33	0.24		ug/l	
Endosulfan-II	1 [a]	4.64	4.64	0.25		ug/l	3.9
Endosulfan-II	2	5.50	5.50	0.26		ug/l	
Heptachlor	1 [a]	2.45	2.45	0.21		ug/l	13.3
Heptachlor	2	2.80	2.80	0.24		ug/l	
Heptachlor epoxide	1 [a]	3.31	3.31	0.22		ug/l	12.8
Heptachlor epoxide	2	3.82	3.82	0.25		ug/l	
Methoxychlor	1 [a]	5.65	5.65	0.21		ug/l	25.0
Methoxychlor	2	7.10	7.10	0.27		ug/l	

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7071-CC6859	**Injection Date:**	07/01/24
Lab File ID:	1G197566.D	**Injection Time:**	23:02
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP55806-BSD	**Injection Date:**	07/02/24
Lab File ID:	1G197570.D	**Injection Time:**	00:03
Client ID:	Blank Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G3G5198-CC5160	**Injection Date:**	07/01/24
Lab File ID:	3G141831.D	**Injection Time:**	15:01
Instrument ID:	GC3G	**Method:**	SW846 8082A

Sample ID:	OP55807-BS1	**Injection Date:**	07/01/24
Lab File ID:	3G141840.D	**Injection Time:**	17:30
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			2.1		ug/l	0.0
Aroclor 1016	2			2.1		ug/l	
AR1016-B	1	4.31	4.32	2.2		ug/l	
AR1016-B	2	5.31	5.30	2.3		ug/l	
AR1016-C	1	4.92	4.92	2.1		ug/l	
AR1016-C	2	5.97	5.96	2.0		ug/l	
AR1016-D	1	5.09	5.09	2.1		ug/l	
AR1016-D	2	6.16	6.15	2.2		ug/l	
AR1016-E	1	5.63	5.63	2.0		ug/l	
AR1016-E	2	6.82	6.82	2.0		ug/l	
Aroclor 1260	1 [a]			1.8		ug/l	5.4
Aroclor 1260	2			1.9		ug/l	
AR1260-A	1	7.69	7.69	1.7		ug/l	
AR1260-A	2	8.92	8.91	2.0		ug/l	
AR1260-B	1	8.23	8.24	1.9		ug/l	
AR1260-B	2	9.57	9.57	1.9		ug/l	
AR1260-C	1	8.58	8.58	1.9		ug/l	
AR1260-C	2	10.01	10.00	1.8		ug/l	
AR1260-D	1	9.02	9.02	1.9		ug/l	
AR1260-D	2	10.35	10.35	1.9		ug/l	
AR1260-E	1	9.42	9.41	1.8		ug/l	
AR1260-E	2	10.90	10.90	1.8		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G3G5198-CC5160	**Injection Date:**	07/01/24
Lab File ID:	3G141831.D	**Injection Time:**	15:01
Instrument ID:	GC3G	**Method:**	SW846 8082A

Sample ID:	OP55807-BSD	**Injection Date:**	07/01/24
Lab File ID:	3G141841.D	**Injection Time:**	17:47
Client ID:	Blank Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			2.1		ug/l	4.7
Aroclor 1016	2			2.2		ug/l	
AR1016-B	1	4.31	4.32	2.2		ug/l	
AR1016-B	2	5.31	5.30	2.3		ug/l	
AR1016-C	1	4.92	4.92	2.1		ug/l	
AR1016-C	2	5.96	5.96	2.2		ug/l	
AR1016-D	1	5.09	5.09	2.1		ug/l	
AR1016-D	2	6.16	6.15	2.3		ug/l	
AR1016-E	1	5.63	5.63	1.9		ug/l	
AR1016-E	2	6.83	6.82	2.2		ug/l	
Aroclor 1260	1 [a]			1.7		ug/l	11.1
Aroclor 1260	2			1.9		ug/l	
AR1260-A	1	7.69	7.69	1.5		ug/l	
AR1260-A	2	8.92	8.91	2.0		ug/l	
AR1260-B	1	8.23	8.24	1.8		ug/l	
AR1260-B	2	9.57	9.57	1.9		ug/l	
AR1260-C	1	8.58	8.58	1.7		ug/l	
AR1260-C	2	10.01	10.00	1.8		ug/l	
AR1260-D	1	9.04	9.02	1.9		ug/l	
AR1260-D	2	10.36	10.35	1.8		ug/l	
AR1260-E	1	9.46	9.41	1.7		ug/l	
AR1260-E	2	10.91	10.90	1.7		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	JD91339-1	**Injection Date:**	07/02/24
Lab File ID:	4G9738724.D	**Injection Time:**	19:35
Client ID:	GRID-3		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	9.25	9.28	0.00089		mg/kg	115.0
alpha-Chlordane [a]	2 [b]	10.59	10.59	0.00024	J	mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.00030	J	mg/kg	
Dieldrin	1 [b]	9.78	9.79	0.00017	J	mg/kg	16.2
Dieldrin	2	11.12	11.13	0.00020	J	mg/kg	
4,4'-DDE	1	9.38	9.39	0.0011		mg/kg	0.0
4,4'-DDE	2 [b]	10.85	10.86	0.0011		mg/kg	
4,4'-DDT	1 [b]	10.65	10.66	0.0017		mg/kg	0.0
4,4'-DDT	2	12.34	12.35	0.0017		mg/kg	
Heptachlor epoxide [a]	1 [b]	8.93	8.94	0.00013	J	mg/kg	55.6
Heptachlor epoxide [a]	2	10.07	10.08	0.00023	J	mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	JD91339-2	**Injection Date:**	07/02/24
Lab File ID:	4G9738725.D	**Injection Time:**	19:58
Client ID:	GRID-4		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-BHC	1	7.00	7.02	0.000095	J	mg/kg	62.1
alpha-BHC [a]	2 [b]	7.71	7.71	0.000050	J	mg/kg	
alpha-Chlordane	1	9.27	9.28	0.0057		mg/kg	32.4
alpha-Chlordane [c]	2 [b]	10.59	10.59	0.0079		mg/kg	
gamma-Chlordane	1	9.09	9.10	0.0029		mg/kg	53.2
gamma-Chlordane [d]	2 [b]	10.36	10.36	0.0050		mg/kg	
Chlordane (alpha and gamma)	n/a [e]			0.0086		mg/kg	
Dieldrin	1	9.78	9.79	0.00019	J	mg/kg	59.3
Dieldrin [d]	2 [b]	11.12	11.13	0.00035	J	mg/kg	
4,4'-DDD	1	10.22	10.24	0.00066		mg/kg	92.7
4,4'-DDD [d]	2 [b]	11.80	11.81	0.0018		mg/kg	
4,4'-DDE	1	9.38	9.39	0.0025		mg/kg	36.1
4,4'-DDE [c]	2 [b]	10.85	10.86	0.0036		mg/kg	
4,4'-DDT	1	10.64	10.66	0.0028		mg/kg	30.3
4,4'-DDT [c]	2 [b]	12.35	12.35	0.0038		mg/kg	
Endosulfan-I	1	9.45	9.46	0.00061		mg/kg	8.5
Endosulfan-I	2 [b]	10.66	10.69	0.00056		mg/kg	
Endosulfan-II	1	10.44	10.44	0.00012	J	mg/kg	172.1
Endosulfan-II [d]	2 [b]	11.99	11.99	0.0016		mg/kg	
Heptachlor epoxide	1	8.93	8.94	0.0017		mg/kg	25.6
Heptachlor epoxide [c]	2 [b]	10.07	10.08	0.0022		mg/kg	
Methoxychlor [f]	1	11.46	11.44	0.0023		mg/kg	87.8
Methoxychlor [d]	2 [b]	13.59	13.59	0.0059		mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Reported from 2nd signal. Internal standard outside the limits on the 1st signal.
(d) Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
(e) Final reported result.
(f) Associated CCV outside of control limits high.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	JD91339-3	**Injection Date:**	07/02/24
Lab File ID:	4G9738726.D	**Injection Time:**	20:20
Client ID:	GRID-20		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	9.26	9.28	0.00013	J	mg/kg	129.7
alpha-Chlordane [a]	2 [b]	10.58	10.59	0.00061		mg/kg	
gamma-Chlordane	1	9.10	9.10	0.00013	J	mg/kg	160.9
gamma-Chlordane [a]	2 [b]	10.36	10.36	0.0012		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.00025	J	mg/kg	
4,4'-DDD	1	10.25	10.24	0.00042	J	mg/kg	152.3
4,4'-DDD [a]	2 [b]	11.79	11.81	0.0031		mg/kg	
4,4'-DDE	1	9.38	9.39	0.00071		mg/kg	102.4
4,4'-DDE [a]	2 [b]	10.85	10.86	0.0022		mg/kg	
4,4'-DDT	1	10.64	10.66	0.0010		mg/kg	75.0
4,4'-DDT [d]	2 [b]	12.35	12.35	0.0022		mg/kg	
Endrin	1	10.14	10.11	0.0032		mg/kg	124.1
Endrin [a]	2 [b]	11.65	11.64	0.00075		mg/kg	

(a) Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Reported from 2nd signal. Internal standard outside the limits on the 1st signal.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	JD91339-4	**Injection Date:**	07/02/24
Lab File ID:	4G9738727.D	**Injection Time:**	20:43
Client ID:	GRID-11		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	9.26	9.28	0.00077		mg/kg	43.7
alpha-Chlordane [a]	2 [b]	10.59	10.59	0.0012		mg/kg	
gamma-Chlordane	1	9.09	9.10	0.00065		mg/kg	59.5
gamma-Chlordane [a]	2 [b]	10.36	10.36	0.0012		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.0014		mg/kg	
Dieldrin	1	9.78	9.79	0.000090	J	mg/kg	128.0
Dieldrin [a]	2 [b]	11.12	11.13	0.00041		mg/kg	
4,4'-DDD	1	10.22	10.24	0.00050		mg/kg	116.7
4,4'-DDD [a]	2 [b]	11.79	11.81	0.0019		mg/kg	
4,4'-DDE	1	9.38	9.39	0.0011		mg/kg	37.0
4,4'-DDE [d]	2 [b]	10.85	10.86	0.0016		mg/kg	
4,4'-DDT	1	10.64	10.66	0.0013		mg/kg	84.4
4,4'-DDT [a]	2 [b]	12.35	12.35	0.0032		mg/kg	
Endosulfan-II	1	10.44	10.44	0.00018	J	mg/kg	165.4
Endosulfan-II [a]	2 [b]	11.99	11.99	0.0019		mg/kg	
Heptachlor epoxide	1	8.93	8.94	0.00015	J	mg/kg	66.7
Heptachlor epoxide [a]	2 [b]	10.07	10.08	0.00030	J	mg/kg	

(a) Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Reported from 2nd signal. Internal standard outside the limits on the 1st signal.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	JD91339-5	**Injection Date:**	07/02/24
Lab File ID:	4G9738728.D	**Injection Time:**	21:05
Client ID:	GRID-10A		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	9.25	9.28	0.00083		mg/kg	3.6
alpha-Chlordane [a]	2 [b]	10.58	10.59	0.00086		mg/kg	
gamma-Chlordane	1	9.09	9.10	0.00015	J	mg/kg	72.3
gamma-Chlordane [c]	2 [b]	10.36	10.36	0.00032	J	mg/kg	
Chlordane (alpha and gamma)	n/a [d]			0.00098		mg/kg	
4,4'-DDD	1	10.23	10.24	0.00078		mg/kg	98.7
4,4'-DDD [c]	2 [b]	11.81	11.81	0.0023		mg/kg	
4,4'-DDE	1	9.38	9.39	0.0037		mg/kg	95.8
4,4'-DDE [c]	2 [b]	10.85	10.86	0.0105		mg/kg	
4,4'-DDT	1	10.65	10.66	0.0011		mg/kg	129.0
4,4'-DDT [c]	2 [b]	12.34	12.35	0.0051		mg/kg	
Heptachlor epoxide	1	8.93	8.94	0.00013	J	mg/kg	84.4
Heptachlor epoxide [c]	2 [b]	10.07	10.08	0.00032	J	mg/kg	

(a) Reported from 2nd signal. Internal standard outside the limits on the 1st signal.
(b) Final result reported from this column.
(c) Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
(d) Final reported result.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	JD91339-6	**Injection Date:**	07/02/24
Lab File ID:	4G9738729.D	**Injection Time:**	21:28
Client ID:	GRID-21		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	9.26	9.28	0.0045		mg/kg	12.5
alpha-Chlordane [a]	2 [b]	10.58	10.59	0.0051		mg/kg	
gamma-Chlordane	1	9.09	9.10	0.0024		mg/kg	52.3
gamma-Chlordane [c]	2 [b]	10.36	10.36	0.0041		mg/kg	
Chlordane (alpha and gamma)	n/a [d]			0.0069		mg/kg	
Dieldrin	1	9.78	9.79	0.00071		mg/kg	51.3
Dieldrin [c]	2 [b]	11.12	11.13	0.0012		mg/kg	
4,4'-DDD	1	10.22	10.24	0.00085		mg/kg	76.4
4,4'-DDD [c]	2 [b]	11.80	11.81	0.0019		mg/kg	
4,4'-DDE	1	9.38	9.39	0.0014		mg/kg	44.4
4,4'-DDE [c]	2 [b]	10.85	10.86	0.0022		mg/kg	
4,4'-DDT	1	10.64	10.66	0.0016		mg/kg	40.0
4,4'-DDT [a]	2 [b]	12.34	12.35	0.0024		mg/kg	
Endosulfan-II	1	10.44	10.44	0.00010	J	mg/kg	173.3
Endosulfan-II [c]	2 [b]	11.99	11.99	0.0014		mg/kg	
Heptachlor epoxide	1	8.92	8.94	0.00046		mg/kg	34.2
Heptachlor epoxide [a]	2 [b]	10.06	10.08	0.00065		mg/kg	
Methoxychlor [e]	1	11.46	11.44	0.0011		mg/kg	120.0
Methoxychlor [c]	2 [b]	13.59	13.59	0.0044		mg/kg	

(a) Reported from 2nd signal. Internal standard outside the limits on the 1st signal.
(b) Final result reported from this column.
(c) Reported from 2nd signal. Internal standard outside the limits on the 1st signal. More than 40 % RPD for detected concentrations between the two GC columns.
(d) Final reported result.
(e) Associated CCV outside of control limits high.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	JD91339-7	**Injection Date:**	07/02/24
Lab File ID:	4G9738730.D	**Injection Time:**	21:50
Client ID:	GRID-9		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Dieldrin	1 [a]	9.78	9.79	0.000089	J	mg/kg	29.7
Dieldrin	2	11.13	11.13	0.00012	J	mg/kg	
4,4'-DDE	1 [a]	9.38	9.39	0.00016	J	mg/kg	17.1
4,4'-DDE	2	10.85	10.86	0.00019	J	mg/kg	
4,4'-DDT [b]	1 [a]	10.65	10.66	0.000073	J	mg/kg	145.2
4,4'-DDT [b]	2	12.34	12.35	0.00046		mg/kg	

(a) Final result reported from this column.
(b) More than 40 % RPD for detected concentrations between the two GC columns.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	JD91339-8	**Injection Date:**	07/02/24
Lab File ID:	4G9738731.D	**Injection Time:**	22:13
Client ID:	GRID-8A		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
4,4'-DDD	1 [a]	10.23	10.24	0.000080	J	mg/kg	20.2
4,4'-DDD	2	11.80	11.81	0.000098	J	mg/kg	
4,4'-DDE	1 [a]	9.38	9.39	0.00016	J	mg/kg	0.0
4,4'-DDE	2	10.85	10.86	0.00016	J	mg/kg	
4,4'-DDT	1	10.64	10.66	0.00026	J	mg/kg	12.2
4,4'-DDT	2 [a]	12.35	12.35	0.00023	J	mg/kg	

(a) Final result reported from this column.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	JD91339-9	**Injection Date:**	07/02/24
Lab File ID:	4G9738732.D	**Injection Time:**	22:35
Client ID:	GRID-5		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	9.25	9.28	0.0010		mg/kg	94.1
alpha-Chlordane [a]	2 [b]	10.58	10.59	0.00036	J	mg/kg	
gamma-Chlordane [a]	1 [b]	9.09	9.10	0.00045		mg/kg	102.7
gamma-Chlordane [a]	2	10.36	10.36	0.0014		mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.00082		mg/kg	
Dieldrin	1	9.78	9.79	0.00024	J	mg/kg	28.6
Dieldrin	2 [b]	11.12	11.13	0.00018	J	mg/kg	
4,4'-DDD	1	10.23	10.24	0.0261	E	mg/kg	22.1
4,4'-DDD	2 [b]	11.81	11.81	0.0209		mg/kg	
Heptachlor epoxide	1	8.92	8.94	0.0022		mg/kg	117.7
Heptachlor epoxide [a]	2 [b]	10.07	10.08	0.00057		mg/kg	
Methoxychlor [d]	1	11.43	11.44	0.00075		mg/kg	46.2
Methoxychlor [e]	2 [b]	13.59	13.59	0.0012		mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Associated CCV outside of control limits high.
(e) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40 % RPD for detected concentrations between the two GC columns.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2531-CC2430	**Injection Date:**	07/03/24
Lab File ID:	8G57860.D	**Injection Time:**	17:30
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	JD91339-9	**Injection Date:**	07/03/24
Lab File ID:	8G57874.D	**Injection Time:**	23:12
Client ID:	GRID-5		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
4,4'-DDT	1 [a]	8.36	8.36	0.0878		mg/kg	15.9
4,4'-DDT	2	10.21	10.22	0.103		mg/kg	

(a) Final result reported from this column.

10.7.14 10

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2531-CC2430	**Injection Date:**	07/03/24
Lab File ID:	8G57860.D	**Injection Time:**	17:30
Instrument ID:	GC8G	**Method:**	SW846 8081B

Sample ID:	JD91339-9	**Injection Date:**	07/03/24
Lab File ID:	8G57875.D	**Injection Time:**	23:34
Client ID:	GRID-5		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
4,4'-DDE	1	7.23	7.24	0.214		mg/kg	6.8
4,4'-DDE	2 [a]	8.80	8.81	0.200		mg/kg	

(a) Final result reported from this column.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	JD91339-10	**Injection Date:**	07/02/24
Lab File ID:	4G9738733.D	**Injection Time:**	22:58
Client ID:	GRID-6		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
4,4'-DDD	1 [a]	10.23	10.24	0.000082	J	mg/kg	29.2
4,4'-DDD	2	11.80	11.81	0.00011	J	mg/kg	
4,4'-DDE	1 [a]	9.38	9.39	0.00031	J	mg/kg	12.1
4,4'-DDE	2	10.85	10.86	0.00035	J	mg/kg	
4,4'-DDT	1 [a]	10.65	10.66	0.00016	J	mg/kg	27.0
4,4'-DDT	2	12.34	12.35	0.00021	J	mg/kg	

(a) Final result reported from this column.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	JD91339-11	**Injection Date:**	07/02/24
Lab File ID:	4G9738734.D	**Injection Time:**	23:20
Client ID:	GRID-7		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
4,4'-DDD	1	10.22	10.24	0.00022	J	mg/kg	37.8
4,4'-DDD	2 [a]	11.80	11.81	0.00015	J	mg/kg	
4,4'-DDE	1	9.38	9.39	0.00019	J	mg/kg	5.4
4,4'-DDE	2 [a]	10.85	10.86	0.00018	J	mg/kg	
4,4'-DDT	1 [a]	10.64	10.66	0.00025	J	mg/kg	11.3
4,4'-DDT	2	12.34	12.35	0.00028	J	mg/kg	

(a) Final result reported from this column.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3662-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138921.D	**Injection Time:**	15:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91339-13	**Injection Date:**	07/02/24
Lab File ID:	5G138928.D	**Injection Time:**	17:59
Client ID:	DUP-1		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	7.80	7.82	0.0010		mg/kg	120.0
alpha-Chlordane [a]	2 [b]	9.04	9.04	0.00025	J	mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.00025	J	mg/kg	
Dieldrin	1 [b]	8.31	8.31	0.00027	J	mg/kg	3.6
Dieldrin	2	9.54	9.55	0.00028	J	mg/kg	
4,4'-DDE	1	7.94	7.94	0.0019		mg/kg	98.0
4,4'-DDE [a]	2 [b]	9.31	9.31	0.00065		mg/kg	
4,4'-DDT [d]	1 [b]	9.16	9.16	0.0018		mg/kg	11.8
4,4'-DDT [e]	2	10.75	10.75	0.0016		mg/kg	
Heptachlor epoxide	1	7.50	7.50	0.00030	J	mg/kg	66.7
Heptachlor epoxide [a]	2 [b]	8.54	8.55	0.00015	J	mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
(e) Associated CCV outside of control limits low.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3662-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138921.D	**Injection Time:**	15:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	JD91339-14	**Injection Date:**	07/02/24
Lab File ID:	5G138929.D	**Injection Time:**	18:19
Client ID:	DUP-2		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
alpha-Chlordane	1	7.80	7.82	0.00021	J	mg/kg	97.9
alpha-Chlordane [a]	2 [b]	9.04	9.04	0.000072	J	mg/kg	
Chlordane (alpha and gamma)	n/a [c]			0.000072	J	mg/kg	
4,4'-DDE	1	7.93	7.94	0.00060		mg/kg	138.0
4,4'-DDE [a]	2 [b]	9.31	9.31	0.00011	J	mg/kg	
4,4'-DDT	1 [b]	9.15	9.16	0.00042		mg/kg	11.2
4,4'-DDT [d]	2	10.75	10.75	0.00047		mg/kg	

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Final result reported from this column.
(c) Final reported result.
(d) Associated CCV outside of control limits low.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	OP55792-BS1	**Injection Date:**	07/02/24
Lab File ID:	4G9738712.D	**Injection Time:**	15:07
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	8.21	8.20	4.3		ug/kg	13.0
Aldrin	2	9.24	9.24	4.9		ug/kg	
alpha-BHC	1 [a]	7.02	7.02	4.5		ug/kg	10.5
alpha-BHC	2	7.72	7.71	5.0		ug/kg	
beta-BHC	1 [a]	7.44	7.44	4.9		ug/kg	16.8
beta-BHC	2	8.26	8.26	5.8		ug/kg	
delta-BHC	1 [a]	7.63	7.63	4.2		ug/kg	11.2
delta-BHC	2	8.67	8.67	4.7		ug/kg	
gamma-BHC (Lindane)	1 [a]	7.34	7.34	4.3		ug/kg	11.0
gamma-BHC (Lindane)	2	8.17	8.17	4.8		ug/kg	
alpha-Chlordane	1 [a]	9.28	9.28	4.6		ug/kg	8.3
alpha-Chlordane	2	10.59	10.59	5.0		ug/kg	
gamma-Chlordane	1 [a]	9.10	9.10	4.7		ug/kg	2.1
gamma-Chlordane	2	10.37	10.36	4.8		ug/kg	
Chlordane (alpha and gamma)	n/a [b]			9.3		ug/kg	
Dieldrin	1 [a]	9.79	9.79	4.7		ug/kg	4.2
Dieldrin	2	11.13	11.13	4.9		ug/kg	
4,4'-DDD	1	10.24	10.24	4.9		ug/kg	0.0
4,4'-DDD	2 [a]	11.81	11.81	4.9		ug/kg	
4,4'-DDE	1	9.39	9.39	4.9		ug/kg	0.0
4,4'-DDE	2 [a]	10.86	10.86	4.9		ug/kg	
4,4'-DDT	1	10.66	10.66	5.1		ug/kg	6.1
4,4'-DDT	2 [a]	12.35	12.35	4.8		ug/kg	
Endrin	1 [a]	10.11	10.11	5.1		ug/kg	1.9
Endrin	2	11.64	11.64	5.2		ug/kg	
Endosulfan sulfate	1 [a]	11.77	11.77	4.0		ug/kg	11.8
Endosulfan sulfate	2	13.04	13.04	4.5		ug/kg	
Endrin aldehyde	1	11.08	11.08	5.5		ug/kg	20.0
Endrin aldehyde	2 [a]	12.57	12.57	4.5		ug/kg	
Endosulfan-I	1 [a]	9.46	9.46	4.7		ug/kg	12.0
Endosulfan-I	2	10.69	10.69	5.3		ug/kg	
Endosulfan-II	1 [a]	10.44	10.44	4.6		ug/kg	4.3
Endosulfan-II	2	11.99	11.99	4.8		ug/kg	
Heptachlor	1 [a]	7.86	7.86	4.7		ug/kg	13.9
Heptachlor	2	8.77	8.77	5.4		ug/kg	
Heptachlor epoxide	1 [a]	8.94	8.94	4.8		ug/kg	2.1
Heptachlor epoxide	2	10.07	10.08	4.9		ug/kg	
Methoxychlor	1	11.44	11.44	5.8		ug/kg	7.1
Methoxychlor	2 [a]	13.59	13.59	5.4		ug/kg	
Endrin ketone	1 [a]	12.21	12.21	4.9		ug/kg	9.7
Endrin ketone	2	13.99	13.99	5.4		ug/kg	

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	OP55792-BS1	**Injection Date:**	07/02/24
Lab File ID:	4G9738712.D	**Injection Time:**	15:07
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3662-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138921.D	**Injection Time:**	15:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	OP55825-BS1	**Injection Date:**	07/02/24
Lab File ID:	5G138924.D	**Injection Time:**	16:37
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1	6.81	6.81	5.0		ug/kg	2.0
Aldrin	2 [a]	7.76	7.76	4.9		ug/kg	
alpha-BHC	1	5.72	5.72	5.2		ug/kg	3.9
alpha-BHC	2 [a]	6.37	6.38	5.0		ug/kg	
beta-BHC	1	6.09	6.09	4.7		ug/kg	4.3
beta-BHC	2 [a]	6.87	6.87	4.5		ug/kg	
delta-BHC	1 [a]	6.27	6.27	4.6		ug/kg	6.3
delta-BHC	2	7.24	7.24	4.9		ug/kg	
gamma-BHC (Lindane)	1	6.01	6.01	5.4		ug/kg	13.9
gamma-BHC (Lindane)	2 [a]	6.78	6.78	4.7		ug/kg	
alpha-Chlordane	1	7.82	7.82	5.0		ug/kg	6.2
alpha-Chlordane	2 [a]	9.04	9.04	4.7		ug/kg	
gamma-Chlordane	1	7.66	7.66	5.0		ug/kg	6.2
gamma-Chlordane	2 [a]	8.82	8.83	4.7		ug/kg	
Chlordane (alpha and gamma)	n/a [b]			9.4		ug/kg	
Dieldrin	1 [a]	8.31	8.31	4.7		ug/kg	4.2
Dieldrin	2	9.55	9.55	4.9		ug/kg	
4,4'-DDD	1 [a]	8.76	8.76	4.4		ug/kg	12.8
4,4'-DDD	2	10.23	10.23	5.0		ug/kg	
4,4'-DDE	1	7.94	7.94	4.8		ug/kg	0.0
4,4'-DDE	2 [a]	9.31	9.31	4.8		ug/kg	
4,4'-DDT [c]	1 [a]	9.16	9.16	4.5		ug/kg	14.3
4,4'-DDT [c]	2	10.75	10.75	3.9		ug/kg	
Endrin	1 [a]	8.62	8.62	4.9		ug/kg	5.9
Endrin	2	10.04	10.04	5.2		ug/kg	
Endosulfan sulfate [c]	1 [a]	10.23	10.23	4.4		ug/kg	7.1
Endosulfan sulfate [c]	2	11.40	11.40	4.1		ug/kg	
Endrin aldehyde [c]	1 [a]	9.55	9.55	4.5		ug/kg	4.5
Endrin aldehyde [c]	2	10.94	10.94	4.3		ug/kg	
Endosulfan-I	1	7.99	7.99	5.2		ug/kg	23.7
Endosulfan-I	2 [a]	9.13	9.13	4.1		ug/kg	
Endosulfan-II	1	8.94	8.94	4.7		ug/kg	2.2
Endosulfan-II	2 [a]	10.38	10.38	4.6		ug/kg	
Heptachlor	1	6.49	6.49	5.1		ug/kg	12.5
Heptachlor	2 [a]	7.33	7.33	4.5		ug/kg	
Heptachlor epoxide	1 [a]	7.50	7.50	4.6		ug/kg	2.2
Heptachlor epoxide	2	8.55	8.55	4.7		ug/kg	
Methoxychlor	1	9.94	9.94	4.6		ug/kg	11.5
Methoxychlor	2 [a]	11.98	11.98	4.1		ug/kg	
Endrin ketone [c]	1 [a]	10.65	10.65	4.4		ug/kg	12.0
Endrin ketone [c]	2	12.33	12.34	3.9		ug/kg	

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3662-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138921.D	**Injection Time:**	15:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	OP55825-BS1	**Injection Date:**	07/02/24
Lab File ID:	5G138924.D	**Injection Time:**	16:37
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.
(c) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	OP55792-MS	**Injection Date:**	07/02/24
Lab File ID:	4G9738722.D	**Injection Time:**	18:51
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	8.20	8.20	5.2		ug/kg	1.9
Aldrin	2	9.23	9.24	5.1		ug/kg	
alpha-BHC	1 [a]	7.02	7.02	5.3		ug/kg	3.7
alpha-BHC	2	7.72	7.71	5.5		ug/kg	
beta-BHC	1 [a]	7.42	7.44	4.0		ug/kg	20.2
beta-BHC	2	8.25	8.26	4.9		ug/kg	
delta-BHC	1 [a]	7.61	7.63	4.9		ug/kg	2.0
delta-BHC	2	8.67	8.67	5.0		ug/kg	
gamma-BHC (Lindane)	1 [a]	7.34	7.34	5.2		ug/kg	7.4
gamma-BHC (Lindane)	2	8.17	8.17	5.6		ug/kg	
alpha-Chlordane	1	9.27	9.28	6.0		ug/kg	5.1
alpha-Chlordane	2 [a]	10.59	10.59	5.7		ug/kg	
gamma-Chlordane	1 [a]	9.10	9.10	4.9		ug/kg	10.8
gamma-Chlordane	2	10.36	10.36	4.4		ug/kg	
Chlordane (alpha and gamma)	n/a [b]			10.1		ug/kg	
Dieldrin	1 [a]	9.78	9.79	5.4		ug/kg	3.8
Dieldrin	2	11.13	11.13	5.2		ug/kg	
4,4'-DDD	1 [a]	10.23	10.24	5.0		ug/kg	2.0
4,4'-DDD	2	11.81	11.81	5.1		ug/kg	
4,4'-DDE	1	9.39	9.39	6.5		ug/kg	6.3
4,4'-DDE	2 [a]	10.85	10.86	6.1		ug/kg	
4,4'-DDT	1 [a]	10.65	10.66	8.3		ug/kg	8.8
4,4'-DDT	2	12.35	12.35	7.6		ug/kg	
Endrin	1 [a]	10.11	10.11	5.5		ug/kg	5.6
Endrin	2	11.64	11.64	5.2		ug/kg	
Endosulfan sulfate	1 [a]	11.76	11.77	3.9		ug/kg	18.6
Endosulfan sulfate	2	13.03	13.04	4.7		ug/kg	
Endrin aldehyde	1 [a]	11.07	11.08	4.2		ug/kg	12.7
Endrin aldehyde	2	12.56	12.57	3.7		ug/kg	
Endosulfan-I	1 [a]	9.46	9.46	5.0		ug/kg	11.3
Endosulfan-I	2	10.69	10.69	5.6		ug/kg	
Endosulfan-II	1 [a]	10.44	10.44	4.6		ug/kg	12.2
Endosulfan-II	2	11.99	11.99	5.2		ug/kg	
Heptachlor	1 [a]	7.85	7.86	5.8		ug/kg	1.7
Heptachlor	2	8.77	8.77	5.7		ug/kg	
Heptachlor epoxide	1 [a]	8.93	8.94	5.6		ug/kg	1.8
Heptachlor epoxide	2	10.07	10.08	5.5		ug/kg	
Methoxychlor	1 [a]	11.43	11.44	6.4		ug/kg	15.8
Methoxychlor	2	13.59	13.59	7.5		ug/kg	
Endrin ketone	1 [a]	12.20	12.21	7.9		ug/kg	45.0
Endrin ketone	2	13.98	13.99	5.0		ug/kg	

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	OP55792-MS	**Injection Date:**	07/02/24
Lab File ID:	4G9738722.D	**Injection Time:**	18:51
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.

10.7.22
10

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3662-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138921.D	**Injection Time:**	15:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	OP55825-MS	**Injection Date:**	07/02/24
Lab File ID:	5G138925.D	**Injection Time:**	16:57
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	6.80	6.81	5.4		ug/kg	0.0
Aldrin	2	7.75	7.76	5.4		ug/kg	
alpha-BHC	1 [a]	5.72	5.72	5.5		ug/kg	3.7
alpha-BHC	2	6.37	6.38	5.3		ug/kg	
beta-BHC	1 [a]	6.09	6.09	4.7		ug/kg	2.2
beta-BHC	2	6.87	6.87	4.6		ug/kg	
delta-BHC	1 [a]	6.27	6.27	4.0		ug/kg	7.2
delta-BHC	2	7.24	7.24	4.3		ug/kg	
gamma-BHC (Lindane)	1 [a]	6.01	6.01	5.6		ug/kg	13.3
gamma-BHC (Lindane)	2	6.78	6.78	4.9		ug/kg	
alpha-Chlordane	1 [a]	7.82	7.82	5.3		ug/kg	5.8
alpha-Chlordane	2	9.04	9.04	5.0		ug/kg	
gamma-Chlordane	1 [a]	7.66	7.66	5.3		ug/kg	5.8
gamma-Chlordane	2	8.82	8.83	5.0		ug/kg	
Chlordane (alpha and gamma)	n/a [b]			10.0		ug/kg	
Dieldrin	1 [a]	8.31	8.31	4.6		ug/kg	4.3
Dieldrin	2	9.55	9.55	4.8		ug/kg	
4,4'-DDD	1 [a]	8.75	8.76	4.4		ug/kg	8.7
4,4'-DDD	2	10.23	10.23	4.8		ug/kg	
4,4'-DDE	1 [a]	7.94	7.94	5.5		ug/kg	5.6
4,4'-DDE	2	9.31	9.31	5.2		ug/kg	
4,4'-DDT	1 [a]	9.16	9.16	4.9		ug/kg	17.8
4,4'-DDT	2	10.75	10.75	4.1		ug/kg	
Endrin	1 [a]	8.62	8.62	4.6		ug/kg	4.3
Endrin	2	10.04	10.04	4.8		ug/kg	
Endosulfan sulfate	1 [a]	10.23	10.23	2.8		ug/kg	11.3
Endosulfan sulfate	2	11.40	11.40	2.5		ug/kg	
Endrin aldehyde	1 [a]	9.55	9.55	2.4		ug/kg	4.3
Endrin aldehyde	2	10.94	10.94	2.3		ug/kg	
Endosulfan-I	1 [a]	7.99	7.99	5.2		ug/kg	14.4
Endosulfan-I	2	9.13	9.13	4.5		ug/kg	
Endosulfan-II	1 [a]	8.93	8.94	4.1		ug/kg	2.5
Endosulfan-II	2	10.38	10.38	4.0		ug/kg	
Heptachlor	1 [a]	6.49	6.49	5.1		ug/kg	12.5
Heptachlor	2	7.33	7.33	4.5		ug/kg	
Heptachlor epoxide	1 [a]	7.50	7.50	4.9		ug/kg	0.0
Heptachlor epoxide	2	8.55	8.55	4.9		ug/kg	
Methoxychlor	1 [a]	9.94	9.94	3.7		ug/kg	11.4
Methoxychlor	2	11.98	11.98	3.3		ug/kg	
Endrin ketone	1 [a]	10.65	10.65	3.5		ug/kg	12.1
Endrin ketone	2	12.33	12.34	3.1		ug/kg	

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3662-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138921.D	**Injection Time:**	15:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	OP55825-MS	**Injection Date:**	07/02/24
Lab File ID:	5G138925.D	**Injection Time:**	16:57
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.

10.7.23
10

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	OP55792-MSD	**Injection Date:**	07/02/24
Lab File ID:	4G9738723.D	**Injection Time:**	19:13
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	8.19	8.20	4.7		ug/kg	4.2
Aldrin	2	9.23	9.24	4.9		ug/kg	
alpha-BHC	1 [a]	7.02	7.02	4.7		ug/kg	2.2
alpha-BHC	2	7.71	7.71	4.6		ug/kg	
beta-BHC	1 [a]	7.45	7.44	3.0		ug/kg	23.5
beta-BHC	2	8.25	8.26	3.8		ug/kg	
delta-BHC	1 [a]	7.61	7.63	4.5		ug/kg	0.0
delta-BHC	2	8.66	8.67	4.5		ug/kg	
gamma-BHC (Lindane)	1 [a]	7.33	7.34	4.7		ug/kg	16.1
gamma-BHC (Lindane)	2	8.16	8.17	4.0		ug/kg	
alpha-Chlordane	1	9.27	9.28	5.6		ug/kg	5.5
alpha-Chlordane	2 [a]	10.59	10.59	5.3		ug/kg	
gamma-Chlordane	1 [a]	9.10	9.10	4.6		ug/kg	6.7
gamma-Chlordane	2	10.36	10.36	4.3		ug/kg	
Chlordane (alpha and gamma)	n/a [b]			9.6		ug/kg	
Dieldrin	1 [a]	9.78	9.79	5.0		ug/kg	2.0
Dieldrin	2	11.13	11.13	5.1		ug/kg	
4,4'-DDD	1 [a]	10.23	10.24	4.8		ug/kg	4.1
4,4'-DDD	2	11.81	11.81	5.0		ug/kg	
4,4'-DDE	1	9.38	9.39	6.1		ug/kg	5.0
4,4'-DDE	2 [a]	10.85	10.86	5.8		ug/kg	
4,4'-DDT	1 [a]	10.65	10.66	7.4		ug/kg	4.1
4,4'-DDT	2	12.35	12.35	7.1		ug/kg	
Endrin	1 [a]	10.11	10.11	5.3		ug/kg	3.8
Endrin	2	11.63	11.64	5.1		ug/kg	
Endosulfan sulfate	1 [a]	11.76	11.77	3.9		ug/kg	16.5
Endosulfan sulfate	2	13.03	13.04	4.6		ug/kg	
Endrin aldehyde	1 [a]	11.07	11.08	4.3		ug/kg	26.3
Endrin aldehyde	2	12.56	12.57	5.6		ug/kg	
Endosulfan-I	1 [a]	9.45	9.46	4.5		ug/kg	16.3
Endosulfan-I	2	10.68	10.69	5.3		ug/kg	
Endosulfan-II	1 [a]	10.43	10.44	4.3		ug/kg	17.0
Endosulfan-II	2	11.99	11.99	5.1		ug/kg	
Heptachlor	1 [a]	7.85	7.86	5.4		ug/kg	3.8
Heptachlor	2	8.76	8.77	5.2		ug/kg	
Heptachlor epoxide	1 [a]	8.93	8.94	5.2		ug/kg	1.9
Heptachlor epoxide	2	10.07	10.08	5.3		ug/kg	
Methoxychlor	1 [a]	11.43	11.44	7.2		ug/kg	58.1
Methoxychlor	2	13.59	13.59	13.1		ug/kg	
Endrin ketone	1 [a]	12.20	12.21	7.0		ug/kg	37.3
Endrin ketone	2	13.98	13.99	4.8		ug/kg	

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	OP55792-MSD	**Injection Date:**	07/02/24
Lab File ID:	4G9738723.D	**Injection Time:**	19:13
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.

10.7.24
10

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3662-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138921.D	**Injection Time:**	15:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	OP55825-MSD	**Injection Date:**	07/02/24
Lab File ID:	5G138926.D	**Injection Time:**	17:18
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	6.80	6.81	5.5		ug/kg	0.0
Aldrin	2	7.75	7.76	5.5		ug/kg	
alpha-BHC	1 [a]	5.72	5.72	5.5		ug/kg	3.7
alpha-BHC	2	6.37	6.38	5.3		ug/kg	
beta-BHC	1 [a]	6.09	6.09	4.7		ug/kg	4.3
beta-BHC	2	6.87	6.87	4.5		ug/kg	
delta-BHC	1 [a]	6.27	6.27	4.0		ug/kg	4.9
delta-BHC	2	7.24	7.24	4.2		ug/kg	
gamma-BHC (Lindane)	1 [a]	6.01	6.01	5.6		ug/kg	15.4
gamma-BHC (Lindane)	2	6.78	6.78	4.8		ug/kg	
alpha-Chlordane	1 [a]	7.82	7.82	5.4		ug/kg	7.7
alpha-Chlordane	2	9.04	9.04	5.0		ug/kg	
gamma-Chlordane	1 [a]	7.66	7.66	5.3		ug/kg	5.8
gamma-Chlordane	2	8.82	8.83	5.0		ug/kg	
Chlordane (alpha and gamma)	n/a [b]			10.1		ug/kg	
Dieldrin	1 [a]	8.30	8.31	4.6		ug/kg	4.3
Dieldrin	2	9.55	9.55	4.8		ug/kg	
4,4'-DDD	1 [a]	8.75	8.76	4.3		ug/kg	11.0
4,4'-DDD	2	10.23	10.23	4.8		ug/kg	
4,4'-DDE	1 [a]	7.94	7.94	5.4		ug/kg	3.8
4,4'-DDE	2	9.31	9.31	5.2		ug/kg	
4,4'-DDT	1 [a]	9.16	9.16	4.8		ug/kg	18.2
4,4'-DDT	2	10.75	10.75	4.0		ug/kg	
Endrin	1 [a]	8.62	8.62	4.5		ug/kg	4.3
Endrin	2	10.03	10.04	4.7		ug/kg	
Endosulfan sulfate	1 [a]	10.22	10.23	2.7		ug/kg	7.7
Endosulfan sulfate	2	11.40	11.40	2.5		ug/kg	
Endrin aldehyde	1 [a]	9.55	9.55	2.5		ug/kg	4.1
Endrin aldehyde	2	10.94	10.94	2.4		ug/kg	
Endosulfan-I	1 [a]	7.99	7.99	5.2		ug/kg	16.7
Endosulfan-I	2	9.13	9.13	4.4		ug/kg	
Endosulfan-II	1 [a]	8.93	8.94	4.1		ug/kg	0.0
Endosulfan-II	2	10.38	10.38	4.1		ug/kg	
Heptachlor	1 [a]	6.48	6.49	5.0		ug/kg	12.8
Heptachlor	2	7.33	7.33	4.4		ug/kg	
Heptachlor epoxide	1 [a]	7.50	7.50	4.9		ug/kg	0.0
Heptachlor epoxide	2	8.55	8.55	4.9		ug/kg	
Methoxychlor	1 [a]	9.93	9.94	3.5		ug/kg	12.1
Methoxychlor	2	11.98	11.98	3.1		ug/kg	
Endrin ketone	1 [a]	10.65	10.65	3.5		ug/kg	12.1
Endrin ketone	2	12.33	12.34	3.1		ug/kg	

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3662-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138921.D	**Injection Time:**	15:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

Sample ID:	OP55825-MSD	**Injection Date:**	07/02/24
Lab File ID:	5G138926.D	**Injection Time:**	17:18
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(a) QC results reported from this column.
(b) Final reported result.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRM560-CC547	**Injection Date:**	07/01/24
Lab File ID:	RM25021.D	**Injection Time:**	15:54
Instrument ID:	GCRM	**Method:**	SW846 8082A

Sample ID:	JD91339-5	**Injection Date:**	07/01/24
Lab File ID:	RM25031.D	**Injection Time:**	19:28
Client ID:	GRID-10A		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1262	1 [a]			0.0053	J	mg/kg	36.9
Aroclor 1262	2			0.0077	J	mg/kg	
AR1262-B	1	7.84	7.88 [b]	0.0045	J	mg/kg	
AR1262-B	2	8.92	8.95 [b]	0.0064	J	mg/kg	
AR1262-D	1	8.46	8.50 [b]	0.0052	J	mg/kg	
AR1262-D	2	9.41	9.43 [b]	0.0083	J	mg/kg	
AR1262-E	1	8.78	8.80 [b]	0.0060	J	mg/kg	
AR1262-E	2	9.73	9.73 [b]	0.0084	J	mg/kg	

(a) Final result reported from this column.
(b) StdRT taken from init cal: GRM547-IC547 RM24634.D 06/18/24 22:48

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRM560-CC547	**Injection Date:**	07/01/24
Lab File ID:	RM25021.D	**Injection Time:**	15:54
Instrument ID:	GCRM	**Method:**	SW846 8082A

Sample ID:	JD91339-9	**Injection Date:**	07/01/24
Lab File ID:	RM25035.D	**Injection Time:**	20:40
Client ID:	GRID-5		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1262	1 [a]			0.0055	J	mg/kg	13.6
Aroclor 1262	2			0.0063	J	mg/kg	
AR1262-B	1	7.84	7.88 [b]	0.0059	J	mg/kg	
AR1262-B	2	8.92	8.95 [b]	0.0072	J	mg/kg	
AR1262-C	1	8.13	8.16 [b]	0.0050	J	mg/kg	
AR1262-C	2	9.20	9.23 [b]	0.0038	J	mg/kg	
AR1262-D	1	8.46	8.50 [b]	0.0054	J	mg/kg	
AR1262-D	2	9.41	9.43 [b]	0.0077	J	mg/kg	

(a) Final result reported from this column.
(b) StdRT taken from init cal: GRM547-IC547 RM24634.D 06/18/24 22:48

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRM560-CC547	**Injection Date:**	07/01/24
Lab File ID:	RM25021.D	**Injection Time:**	15:54
Instrument ID:	GCRM	**Method:**	SW846 8082A

Sample ID:	OP55793-BS1	**Injection Date:**	07/01/24
Lab File ID:	RM25024.D	**Injection Time:**	17:23
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1			37.9		ug/kg	4.3
Aroclor 1016	2 [a]			36.3		ug/kg	
AR1016-A	1	4.16	4.16	44.6		ug/kg	
AR1016-A	2	4.76	4.76	40.7		ug/kg	
AR1016-B	1	4.45	4.45	36.5		ug/kg	
AR1016-B	2	5.16	5.16	34.4		ug/kg	
AR1016-E	1	5.36	5.36	32.6		ug/kg	
AR1016-E	2	6.17	6.17	33.9		ug/kg	
Aroclor 1260	1			39.4		ug/kg	4.9
Aroclor 1260	2 [a]			37.5		ug/kg	
AR1260-A	1	7.37	7.36	39.1		ug/kg	
AR1260-A	2	8.48	8.48	36.9		ug/kg	
AR1260-B	1	7.85	7.85	39.3		ug/kg	
AR1260-B	2	8.93	8.93	36.8		ug/kg	
AR1260-C	1	8.14	8.13	38.1		ug/kg	
AR1260-C	2	9.21	9.21	36.2		ug/kg	
AR1260-D	1	8.47	8.47	41.7		ug/kg	
AR1260-D	2	9.42	9.41	39.8		ug/kg	
AR1260-E	1	8.75	8.75	38.9		ug/kg	
AR1260-E	2	9.73	9.73	38.0		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRL401-CC343	**Injection Date:**	07/02/24
Lab File ID:	RL18040.D	**Injection Time:**	15:10
Instrument ID:	GCRL	**Method:**	SW846 8082A

Sample ID:	OP55826-BS1	**Injection Date:**	07/02/24
Lab File ID:	RL18043.D	**Injection Time:**	16:00
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			36.2		ug/kg	13.2
Aroclor 1016	2			41.3		ug/kg	
AR1016-A	1	4.21	4.20	41.6		ug/kg	
AR1016-A	2	4.77	4.76	46.8		ug/kg	
AR1016-B	1	4.51	4.50	37.4		ug/kg	
AR1016-B	2	5.16	5.15	41.7		ug/kg	
AR1016-C	1	4.91	4.90	35.7		ug/kg	
AR1016-C	2	5.67	5.66	39.8		ug/kg	
AR1016-D	1	5.03	5.02	33.1		ug/kg	
AR1016-D	2	5.83	5.83	39.8		ug/kg	
AR1016-E	1	5.43	5.42	33.3		ug/kg	
AR1016-E	2	6.49	6.48	38.6		ug/kg	
Aroclor 1260	1 [a]			33.0		ug/kg	17.7
Aroclor 1260	2			39.4		ug/kg	
AR1260-A	1	7.45	7.44	32.8		ug/kg	
AR1260-A	2	8.48	8.48	41.1		ug/kg	
AR1260-B	1	7.94	7.93	33.0		ug/kg	
AR1260-B	2	8.95	8.94	42.0		ug/kg	
AR1260-C	1	8.22	8.21	32.8		ug/kg	
AR1260-C	2	9.24	9.23	38.7		ug/kg	
AR1260-D	1	8.56	8.55	33.5		ug/kg	
AR1260-D	2	9.45	9.45	38.5		ug/kg	
AR1260-E	1	8.84	8.83	32.8		ug/kg	
AR1260-E	2	9.79	9.78	36.8		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRM560-CC547	**Injection Date:**	07/01/24
Lab File ID:	RM25021.D	**Injection Time:**	15:54
Instrument ID:	GCRM	**Method:**	SW846 8082A

Sample ID:	OP55793-MS	**Injection Date:**	07/01/24
Lab File ID:	RM25025.D	**Injection Time:**	17:41
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			35.6		ug/kg	3.3
Aroclor 1016	2			36.8		ug/kg	
AR1016-B	1	4.45	4.45	34.4		ug/kg	
AR1016-B	2	5.15	5.16	34.2		ug/kg	
AR1016-C	1	4.85	4.86	34.7		ug/kg	
AR1016-C	2	5.67	5.68	42.1		ug/kg	
AR1016-E	1	5.36	5.36	37.8		ug/kg	
AR1016-E	2	6.16	6.17	34.2		ug/kg	
Aroclor 1260	1 [a]			42.9		ug/kg	3.8
Aroclor 1260	2			41.3		ug/kg	
AR1260-B	1	7.85	7.85	47.6		ug/kg	
AR1260-B	2	8.92	8.93	42.9		ug/kg	
AR1260-C	1	8.13	8.13	42.8		ug/kg	
AR1260-C	2	9.20	9.21	39.5		ug/kg	
AR1260-E	1	8.74	8.75	38.2		ug/kg	
AR1260-E	2	9.73	9.73	41.4		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRL401-CC343	**Injection Date:**	07/02/24
Lab File ID:	RL18040.D	**Injection Time:**	15:10
Instrument ID:	GCRL	**Method:**	SW846 8082A

Sample ID:	OP55826-MS	**Injection Date:**	07/02/24
Lab File ID:	RL18045.D	**Injection Time:**	16:34
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			36.0		ug/kg	17.7
Aroclor 1016	2			43.0		ug/kg	
AR1016-C	1	4.91	4.90	35.5		ug/kg	
AR1016-C	2	5.67	5.66	42.4		ug/kg	
AR1016-D	1	5.03	5.02	35.8		ug/kg	
AR1016-D	2	5.83	5.83	43.0		ug/kg	
AR1016-E	1	5.43	5.42	36.6		ug/kg	
AR1016-E	2	6.48	6.48	43.7		ug/kg	
Aroclor 1260	1 [a]			42.2		ug/kg	26.3
Aroclor 1260	2			55.0		ug/kg	
AR1260-C	1	8.21	8.21	43.3		ug/kg	
AR1260-C	2	9.23	9.23	45.8		ug/kg	
AR1260-D	1	8.55	8.55	37.0		ug/kg	
AR1260-D	2	9.45	9.45	65.8		ug/kg	
AR1260-E	1	8.87	8.83	46.4		ug/kg	
AR1260-E	2	9.78	9.78	53.4		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRM560-CC547	**Injection Date:**	07/01/24
Lab File ID:	RM25021.D	**Injection Time:**	15:54
Instrument ID:	GCRM	**Method:**	SW846 8082A

Sample ID:	OP55793-MSD	**Injection Date:**	07/01/24
Lab File ID:	RM25026.D	**Injection Time:**	17:59
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			35.0		ug/kg	0.9
Aroclor 1016	2			34.7		ug/kg	
AR1016-B	1	4.45	4.45	34.9		ug/kg	
AR1016-B	2	5.15	5.16	30.8		ug/kg	
AR1016-C	1	4.85	4.86	33.5		ug/kg	
AR1016-C	2	5.67	5.68	41.9		ug/kg	
AR1016-E	1	5.36	5.36	36.7		ug/kg	
AR1016-E	2	6.17	6.17	31.5		ug/kg	
Aroclor 1260	1 [a]			40.9		ug/kg	8.1
Aroclor 1260	2			37.7		ug/kg	
AR1260-B	1	7.85	7.85	41.9		ug/kg	
AR1260-B	2	8.92	8.93	41.3		ug/kg	
AR1260-C	1	8.13	8.13	44.9		ug/kg	
AR1260-C	2	9.20	9.21	35.5		ug/kg	
AR1260-E	1	8.74	8.75	35.8		ug/kg	
AR1260-E	2	9.73	9.73	36.4		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRL401-CC343	**Injection Date:**	07/02/24
Lab File ID:	RL18040.D	**Injection Time:**	15:10
Instrument ID:	GCRL	**Method:**	SW846 8082A

Sample ID:	OP55826-MSD	**Injection Date:**	07/02/24
Lab File ID:	RL18046.D	**Injection Time:**	16:50
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aroclor 1016	1 [a]			35.0		ug/kg	17.7
Aroclor 1016	2			41.8		ug/kg	
AR1016-C	1	4.91	4.90	34.7		ug/kg	
AR1016-C	2	5.66	5.66	41.5		ug/kg	
AR1016-D	1	5.03	5.02	34.8		ug/kg	
AR1016-D	2	5.83	5.83	40.0		ug/kg	
AR1016-E	1	5.42	5.42	35.4		ug/kg	
AR1016-E	2	6.48	6.48	43.8		ug/kg	
Aroclor 1260	1 [a]			40.5		ug/kg	26.4
Aroclor 1260	2			52.8		ug/kg	
AR1260-C	1	8.21	8.21	40.0		ug/kg	
AR1260-C	2	9.23	9.23	42.7		ug/kg	
AR1260-D	1	8.55	8.55	34.9		ug/kg	
AR1260-D	2	9.45	9.45	63.6		ug/kg	
AR1260-E	1	8.87	8.83	46.7		ug/kg	
AR1260-E	2	9.78	9.78	52.2		ug/kg	

(a) QC results reported from this column.

Surrogate Recovery Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8081B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD91339-12	1G197592.D	96	101	59	58
OP55806-BS1	1G197569.D	91	91	88	80
OP55806-BSD	1G197570.D	86	87	85	79
OP55806-MB1	1G197568.D	98	100	101	94

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	10-175%
S2 = Decachlorobiphenyl	10-128%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Surrogate Recovery Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8082A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD91339-12	3G141842.D	99	105	54	51
OP55807-BS1	3G141840.D	88	92	73	69
OP55807-BSD	3G141841.D	90	95	66	62
OP55807-MB1	3G141839.D	98	101	88	84

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	10-169%
S2 = Decachlorobiphenyl	10-130%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Surrogate Recovery Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8081B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD91339-1	4G9738724.D	82	96	81	116
JD91339-2	4G9738725.D	43* [c]	92	46	384* [c]
JD91339-3	4G9738726.D	18* [c]	81	29	767* [c]
JD91339-4	4G9738727.D	37* [c]	79	59	399* [c]
JD91339-5	4G9738728.D	25* [c]	90	44	171* [c]
JD91339-6	4G9738729.D	40* [c]	78	44	283* [c]
JD91339-7	4G9738730.D	74	98	88	124
JD91339-8	4G9738731.D	79	93	74	103
JD91339-9	4G9738732.D	79	99	86	106
JD91339-9	8G57874.D	96	93	80	114
JD91339-9	8G57875.D	112	114	104	128
JD91339-10	4G9738733.D	86	105	86	89
JD91339-11	4G9738734.D	95	117	96	103
JD91339-13	5G138928.D	69	99	145	90
JD91339-14	5G138929.D	78	111	88	85
OP55792-BS1	4G9738712.D	80	91	92	91
OP55792-MB1	4G9738711.D	80	87	90	86
OP55792-MS	4G9738722.D	84	106	87	121
OP55792-MSD	4G9738723.D	80	99	92	118
OP55825-BS1	5G138924.D	71	97	76	68
OP55825-MB1	5G138923.D	74	96	80	68
OP55825-MS	5G138925.D	71	96	80	69
OP55825-MSD	5G138926.D	75	107	87	76

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	46-145%
S2 = Decachlorobiphenyl	29-163%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside control limits due to matrix interference.

Surrogate Recovery Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Method: SW846 8082A **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD91339-1	RM25028.D	79	89	88	114
JD91339-2	RM25027.D	77	89	85	123
JD91339-3	RM25029.D	87	96	87	109
JD91339-4	RM25030.D	79	92	101	117
JD91339-5	RM25031.D	81	89	90	120
JD91339-6	RM25032.D	81	91	85	119
JD91339-7	RM25033.D	74	82	82	103
JD91339-8	RM25034.D	81	90	89	103
JD91339-9	RM25035.D	85	90	97	111
JD91339-10	RM25036.D	84	90	92	101
JD91339-11	RM25037.D	83	89	92	101
JD91339-13	RL18047.D	80	97	83	98
JD91339-14	RL18048.D	81	96	85	93
OP55793-BS1	RM25024.D	85	89	100	104
OP55793-MB1	RM25023.D	84	91	100	103
OP55793-MS	RM25025.D	79	86	91	123
OP55793-MSD	RM25026.D	80	88	87	119
OP55826-BS1	RL18043.D	83	97	89	94
OP55826-MB1	RL18042.D	82	97	89	95
OP55826-MS	RL18045.D	83	97	86	96
OP55826-MSD	RL18046.D	82	98	85	99

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	42-159%
S2 = Decachlorobiphenyl	18-154%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7071-CC6859	**Injection Date:**	07/01/24
Lab File ID:	1G197566.D	**Injection Time:**	23:02
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.50	1.60	8.17	9.74

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP55806A-MB1	1G197568.D	07/01/24	23:33	1.50	1.60	8.17	9.73
OP55806-MB1	1G197568.D	07/01/24	23:33	1.50	1.60	8.17	9.73
OP55806-BS1	1G197569.D	07/01/24	23:48	1.50	1.60	8.17	9.74
OP55806A-BS1	1G197569.D	07/01/24	23:48	1.50	1.60	8.17	9.74
OP55806-BSD	1G197570.D	07/02/24	00:03	1.50	1.60	8.17	9.74
OP55806A-BSD	1G197570.D	07/02/24	00:03	1.50	1.60	8.17	9.74
OP55806A-BS13	1G197571.D	07/02/24	00:19	1.50	1.60	8.17	9.75
OP55806A-BS14	1G197572.D	07/02/24	00:34	1.50	1.60	8.17	9.74
OP55772-MB1	1G197573.D	07/02/24	00:50	1.50	1.61	8.17	9.74
OP55772A-MB1	1G197573.D	07/02/24	00:50	1.50	1.61	8.17	9.74
OP55772A-BS1	1G197574.D	07/02/24	01:05	1.50	1.61	8.17	9.74
OP55772-BS1	1G197574.D	07/02/24	01:05	1.50	1.61	8.17	9.74
OP55772-BSD	1G197575.D	07/02/24	01:20	1.50	1.61	8.18	9.75
OP55772A-BSD	1G197575.D	07/02/24	01:20	1.50	1.61	8.18	9.75
OP55772A-BS13	1G197576.D	07/02/24	01:36	1.50	1.61	8.17	9.74
OP55772A-BS14	1G197577.D	07/02/24	01:51	1.50	1.61	8.17	9.74
OP55772A-MB2	1G197578.D	07/02/24	02:06	1.50	1.61	8.17	9.74
OP55772A-BS2	1G197579.D	07/02/24	02:21	1.50	1.61	8.18	9.75
OP55772A-BSD2	1G197580.D	07/02/24	02:37	1.50	1.61	8.18	9.75
OP55772A-BS132	1G197581.D	07/02/24	02:52	1.50	1.61	8.17	9.74
OP55772A-BS142	1G197582.D	07/02/24	03:08	1.50	1.61	8.17	9.74

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G1G7072-CC6859	**Injection Date:**	07/02/24
Lab File ID:	1G197586.D	**Injection Time:**	05:17
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.49	1.60	8.17	9.75

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	1G197588.D	07/02/24	05:48	1.49	1.60	8.17	9.74
ZZZZZZ	1G197589.D	07/02/24	06:03	1.49	1.60	8.17	9.74
ZZZZZZ	1G197590.D	07/02/24	06:19	1.49	1.60	8.16	9.74
ZZZZZZ	1G197591.D	07/02/24	06:34	1.49	1.60	8.17	9.73
JD91339-12	1G197592.D	07/02/24	06:49	1.49	1.60	8.17	9.74
ZZZZZZ	1G197593.D	07/02/24	07:05	1.49	1.60	8.17	9.74
ZZZZZZ	1G197594.D	07/02/24	07:20	1.49	1.60	8.17	9.75
ZZZZZZ	1G197595.D	07/02/24	07:35	1.49	1.60	8.17	9.74
ZZZZZZ	1G197596.D	07/02/24	07:51	1.49	1.60	8.17	9.74
ZZZZZZ	1G197597.D	07/02/24	08:06	1.49	1.60	8.17	9.74
ZZZZZZ	1G197598.D	07/02/24	08:21	1.49	1.60	8.17	9.74
ZZZZZZ	1G197599.D	07/02/24	08:37	1.49	1.60	8.17	9.74
ZZZZZZ	1G197600.D	07/02/24	08:52	1.49	1.60	8.17	9.74
ZZZZZZ	1G197601.D	07/02/24	09:07	1.50	1.60	8.17	9.74

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G4G4376-CC4352	**Injection Date:**	07/02/24
Lab File ID:	4G9738707.D	**Injection Time:**	12:36
Instrument ID:	GC4G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	6.50	7.00	13.98	15.60

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP55790-MB1	4G9738709.D	07/02/24	14:00	6.54	7.03	14.00	15.61
OP55792-MB1	4G9738711.D	07/02/24	14:45	6.50	7.00	13.98	15.60
OP55792-BS1	4G9738712.D	07/02/24	15:07	6.50	7.00	13.98	15.60
ZZZZZZ	4G9738713.D	07/02/24	15:30	6.50	7.00	13.98	15.60
ZZZZZZ	4G9738714.D	07/02/24	15:52	6.50	7.00	13.98	15.60
ZZZZZZ	4G9738715.D	07/02/24	16:14	6.50	7.00	13.98	15.60
ZZZZZZ	4G9738716.D	07/02/24	16:37	6.50	7.00	13.98	15.60
ZZZZZZ	4G9738717.D	07/02/24	16:59	6.50	7.00	13.98	15.60
ZZZZZZ	4G9738718.D	07/02/24	17:21	6.50	7.00	13.98	15.60
ZZZZZZ	4G9738719.D	07/02/24	17:44	6.50	7.00	13.98	15.61
OP55792-MS	4G9738722.D	07/02/24	18:51	6.50	7.00	13.98	15.60
OP55792-MSD	4G9738723.D	07/02/24	19:13	6.50	7.00	13.98	15.60
JD91339-1	4G9738724.D	07/02/24	19:35	6.50	7.00	13.98	15.60
JD91339-2	4G9738725.D	07/02/24	19:58	6.49	6.99	13.98	15.61
JD91339-3	4G9738726.D	07/02/24	20:20	6.49	6.99	13.98	15.61
JD91339-4	4G9738727.D	07/02/24	20:43	6.49	6.99	13.98	15.61
JD91339-5	4G9738728.D	07/02/24	21:05	6.50	6.99	13.98	15.60
JD91339-6	4G9738729.D	07/02/24	21:28	6.49	6.99	13.98	15.61
JD91339-7	4G9738730.D	07/02/24	21:50	6.50	7.00	13.98	15.60
JD91339-8	4G9738731.D	07/02/24	22:13	6.50	7.00	13.98	15.60
JD91339-9	4G9738732.D	07/02/24	22:35	6.50	6.99	13.98	15.60
JD91339-10	4G9738733.D	07/02/24	22:58	6.50	6.99	13.98	15.60
JD91339-11	4G9738734.D	07/02/24	23:20	6.50	7.00	13.98	15.60

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G5G3662-CC3634	**Injection Date:**	07/02/24
Lab File ID:	5G138921.D	**Injection Time:**	15:35
Instrument ID:	GC5G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	5.25	5.74	12.44	14.18

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP55825-MB1	5G138923.D	07/02/24	16:16	5.25	5.73	12.44	14.18
OP55825-BS1	5G138924.D	07/02/24	16:37	5.25	5.74	12.44	14.18
OP55825-MS	5G138925.D	07/02/24	16:57	5.25	5.73	12.43	14.18
OP55825-MSD	5G138926.D	07/02/24	17:18	5.25	5.73	12.43	14.18
JD91383-1	5G138927.D	07/02/24	17:38	5.25	5.73	12.43	14.18
JD91339-13	5G138928.D	07/02/24	17:59	5.25	5.73	12.44	14.18
JD91339-14	5G138929.D	07/02/24	18:19	5.25	5.73	12.44	14.18
ZZZZZZ	5G138930.D	07/02/24	18:40	5.25	5.73	12.44	14.18
ZZZZZZ	5G138931.D	07/02/24	19:00	5.24	5.73	12.44	14.18
ZZZZZZ	5G138932.D	07/02/24	19:21	5.25	5.73	12.44	14.18
ZZZZZZ	5G138933.D	07/02/24	19:41	5.25	5.73	12.44	14.18
ZZZZZZ	5G138934.D	07/02/24	20:02	5.25	5.73	12.44	14.18
ZZZZZZ	5G138935.D	07/02/24	20:23	5.25	5.73	12.44	14.18
ZZZZZZ	5G138936.D	07/02/24	20:43	5.25	5.73	12.44	14.18
ZZZZZZ	5G138937.D	07/02/24	21:04	5.24	5.73	12.44	14.18
ZZZZZZ	5G138938.D	07/02/24	22:11	5.29	5.77	12.46	14.31

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G8G2531-CC2430	**Injection Date:**	07/03/24
Lab File ID:	8G57860.D	**Injection Time:**	17:30
Instrument ID:	GC8G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	4.83	5.42	11.49	13.76

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP55866-MB1	8G57862.D	07/03/24	18:50	4.88	5.48	11.51	13.76
OP55866-BS1	8G57863.D	07/03/24	19:12	4.83	5.43	11.50	13.76
OP55866-MS	8G57864.D	07/03/24	19:33	4.83	5.42	11.49	13.76
OP55866-MSD	8G57865.D	07/03/24	19:55	4.83	5.42	11.49	13.76
JD91465-1	8G57866.D	07/03/24	20:17	4.83	5.42	11.49	13.76
ZZZZZZ	8G57868.D	07/03/24	21:00	4.82	5.42	11.49	13.76
ZZZZZZ	8G57869.D	07/03/24	21:22	4.82	5.42	11.49	13.76
ZZZZZZ	8G57871.D	07/03/24	22:06	4.82	5.42	11.49	13.76
ZZZZZZ	8G57872.D	07/03/24	22:28	4.82	5.41	11.49	13.75
ZZZZZZ	8G57873.D	07/03/24	22:50	4.82	5.42	11.49	13.76
JD91339-9	8G57874.D	07/03/24	23:12	4.82	5.41	11.49	13.76
JD91339-9	8G57875.D	07/03/24	23:34	4.82	5.41	11.49	13.75

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	G3G5198-CC5160	**Injection Date:**	07/01/24
Lab File ID:	3G141831.D	**Injection Time:**	15:01
Instrument ID:	GC3G	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.46	4.05	10.96	12.58

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP55774A-MB1	3G141833.D	07/01/24	15:34	3.45	4.06	10.96	12.58
OP55774-MB1	3G141833.D	07/01/24	15:34	3.45	4.06	10.96	12.58
OP55774A-BS1	3G141834.D	07/01/24	15:51	3.45	4.06	10.96	12.58
OP55774-BS1	3G141834.D	07/01/24	15:51	3.45	4.06	10.96	12.58
OP55774A-BSD	3G141835.D	07/01/24	16:07	3.45	4.06	10.96	12.58
OP55774-BSD	3G141835.D	07/01/24	16:07	3.45	4.06	10.96	12.58
ZZZZZZ	3G141836.D	07/01/24	16:24	3.45	4.06	10.96	12.58
ZZZZZZ	3G141837.D	07/01/24	16:41	3.45	4.06	10.96	12.58
OP55807-MB1	3G141839.D	07/01/24	17:14	3.45	4.06	10.97	12.58
OP55807-BS1	3G141840.D	07/01/24	17:30	3.45	4.06	10.96	12.58
OP55807-BSD	3G141841.D	07/01/24	17:47	3.45	4.06	10.97	12.58
JD91339-12	3G141842.D	07/01/24	18:04	3.45	4.06	10.97	12.58
ZZZZZZ	3G141843.D	07/01/24	18:20	3.45	4.06	10.96	12.58
OP55746-MB1	3G141846.D	07/01/24	19:10	3.45	4.06	10.97	12.58

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRL401-CC343	**Injection Date:**	07/02/24
Lab File ID:	RL18040.D	**Injection Time:**	15:10
Instrument ID:	GCRL	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.91	4.32	9.81	10.74

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP55826-MB1	RL18042.D	07/02/24	15:44	3.92	4.32	9.82	10.75
OP55826-BS1	RL18043.D	07/02/24	16:00	3.92	4.32	9.83	10.75
ZZZZZZ	RL18044.D	07/02/24	16:17	0.00	0.00	0.00	0.00
OP55826-MS	RL18045.D	07/02/24	16:34	3.92	4.32	9.82	10.75
OP55826-MSD	RL18046.D	07/02/24	16:50	3.92	4.32	9.83	10.76
JD91339-13	RL18047.D	07/02/24	17:07	3.92	4.32	9.82	10.75
JD91339-14	RL18048.D	07/02/24	17:24	3.92	4.32	9.82	10.74
ZZZZZZ	RL18049.D	07/02/24	17:41	3.92	4.32	9.82	10.74
ZZZZZZ	RL18050.D	07/02/24	17:57	3.92	4.32	9.82	10.73
ZZZZZZ	RL18051.D	07/02/24	18:14	3.92	4.32	9.82	10.74
ZZZZZZ	RL18052.D	07/02/24	18:31	3.92	4.32	9.82	10.73
ZZZZZZ	RL18053.D	07/02/24	18:47	3.92	4.32	9.82	10.73

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Check Std:	GRM560-CC547	**Injection Date:**	07/01/24
Lab File ID:	RM25021.D	**Injection Time:**	15:54
Instrument ID:	GCRM	**Method:**	SW846 8082A

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	3.87	4.30	9.70	10.65

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP55793-MB1	RM25023.D	07/01/24	17:06	3.87	4.30	9.71	10.65
OP55793-BS1	RM25024.D	07/01/24	17:23	3.86	4.30	9.71	10.65
OP55793-MS	RM25025.D	07/01/24	17:41	3.87	4.30	9.70	10.64
OP55793-MSD	RM25026.D	07/01/24	17:59	3.86	4.30	9.70	10.64
JD91339-2	RM25027.D	07/01/24	18:17	3.87	4.30	9.70	10.64
JD91339-1	RM25028.D	07/01/24	18:35	3.87	4.30	9.70	10.64
JD91339-3	RM25029.D	07/01/24	18:53	3.87	4.30	9.70	10.64
JD91339-4	RM25030.D	07/01/24	19:10	3.86	4.30	9.71	10.65
JD91339-5	RM25031.D	07/01/24	19:28	3.86	4.30	9.70	10.64
JD91339-6	RM25032.D	07/01/24	19:46	3.86	4.30	9.70	10.64
JD91339-7	RM25033.D	07/01/24	20:04	3.87	4.30	9.70	10.64
JD91339-8	RM25034.D	07/01/24	20:22	3.87	4.30	9.70	10.65
JD91339-9	RM25035.D	07/01/24	20:40	3.86	4.30	9.70	10.64
JD91339-10	RM25036.D	07/01/24	20:58	3.86	4.30	9.70	10.64
JD91339-11	RM25037.D	07/01/24	21:16	3.87	4.30	9.70	10.64

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G6859-ICC6859
Lab FileID: 1G192517.D

Response Factor Report GC1G

Method : C:\msdchem\1\methods\1PST6859.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Mon Jan 29 09:45:50 2024
Response via : Initial Calibration

Calibration Files
2 =1g192514.d 5 =1g192515.d 10 =1g192516.d 25 =1g192517.d
50 =1g192518.d 100 =1g192520.d 1 =1g192513.d 75 =1g192519.d

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	1.042	0.909	0.906	0.918	0.929	0.937	1.084	0.935	0.958	7.01
3) Hexachlorobe	1.087	1.023	1.036	1.052	1.043	1.042	1.167	1.049	1.062	4.35
4) alpha-BHC	1.179	1.185	1.229	1.358	1.430	1.514	1.328	1.500	1.340	10.04
5) gamma-BHC	1.119	1.088	1.122	1.226	1.277	1.339	1.176	1.322	1.209	8.04
6) Heptachlor	1.245	1.246	1.251	1.328	1.345	1.391	1.266	1.408	1.310	5.11
7) beta-BHC	0.576	0.535	0.532	0.551	0.557	0.575	0.572	0.580	0.560	3.38
8) delta-BHC	0.880	0.836	0.980	1.102	1.170	1.270	0.889	1.261	1.048	16.74
9) Aldrin	1.144	1.105	1.107	1.196	1.231	1.284	1.151	1.279	1.187	6.05
10) Alachlor		0.156	0.150	0.153	0.149	0.149		0.155	0.152	1.95
11) Heptachlor E	1.172	1.108	1.113	1.162	1.172	1.199	1.124	1.195	1.156	3.12
12) gamma-Chlord	1.147	1.097	1.094	1.161	1.181	1.230	1.165	1.217	1.161	4.28
13) alpha-Chlord	1.136	1.098	1.087	1.147	1.156	1.193	1.233	1.186	1.155	4.24
14) Endosulfan I	1.129	1.079	1.092	1.137	1.146	1.179	1.112	1.181	1.132	3.30
15) 4,4'-DDE	0.860	0.840	0.858	0.944	1.005	1.062	0.904	1.045	0.940	9.40
16) Dieldrin	1.114	1.055	1.063	1.133	1.172	1.224	1.071	1.215	1.131	5.95
17) Endrin	1.037	1.007	1.006	1.069	1.101	1.156	1.118	1.144	1.080	5.50
18) 4,4'-DDD	0.794	0.742	0.761	0.819	0.857	0.938	0.758	0.927	0.824	9.24
19) Endosulfan I	1.038	0.947	0.960	0.999	1.016	1.067	1.048	1.060	1.017	4.44
20) 4,4'-DDT	0.657	0.692	0.720	0.801	0.852	0.934	0.644	0.908	0.776	14.65
21) Endrin Aldeh	0.677	0.747	0.727	0.746	0.745	0.734	0.744	0.737	0.732	3.17
22) Endosulfan S	0.973	0.898	0.887	0.920	0.930	0.949	1.046	0.951	0.944	5.30
23) Methoxychlor	0.498	0.482	0.487	0.508	0.510	0.519	0.496	0.522	0.503	2.89
24) Mirex	0.968	0.904	0.882	0.874	0.846	0.830	0.941	0.846	0.886	5.51
25) Endrin Keton	1.045	1.024	1.016	1.075	1.096	1.115	1.030	1.114	1.064	3.84
26) Decachlorobi	1.010	0.985	0.952	0.955	0.932	0.924	1.117	0.929	0.976	6.59
27) I 1-bromo-2-nitrobenzen	ISTD									
28) Toxaphene{A}				0.006					0.006	0.00
29) Toxaphene{B}				0.009					0.009	0.00
30) Toxaphene{C}				0.017					0.017	0.00
31) Toxaphene{D}				0.018					0.018	0.00
32) Toxaphene{E}				0.023					0.023	0.00
33) I 1-bromo-2-nitrobenzen	ISTD									
34) Chlordane {A				0.067					0.067	0.00
35) Chlordane {B				0.040					0.040	0.00
36) Chlordane {C				0.130					0.130	0.00
37) Chlordane {D				0.206					0.206	0.00
38) Chlordane {E				0.030					0.030	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.873	0.572	0.572	0.590	0.580	0.616	0.614	0.591	0.626	16.17

Initial Calibration Summary

Job Number: JD91339 **Sample:** G1G6859-ICC6859
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1G192517.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

3)	Hexachlorobe	1.386	1.402	1.378	1.394	1.377	1.366	1.349	1.367	1.377	1.23
4)	alpha-BHC	1.328	1.282	1.318	1.444	1.512	1.602	1.363	1.564	1.427	8.54
5)	gamma-BHC	1.261	1.186	1.215	1.301	1.353	1.414	1.367	1.384	1.310	6.33
6)	Heptachlor	1.329	1.289	1.322	1.396	1.444	1.494	1.293	1.470	1.380	5.96
7)	beta-BHC	0.502	0.447	0.461	0.490	0.492	0.506	0.592	0.502	0.499	8.61
8)	delta-BHC	1.163	1.091	1.121	1.216	1.286	1.356	1.212	1.314	1.220	7.69
9)	Aldrin	1.231	1.184	1.231	1.306	1.341	1.402	1.145	1.374	1.277	7.27
10)	Alachlor		0.137	0.126	0.124	0.122	0.121		0.121	0.125	5.01
11)	Heptachlor E	1.220	1.139	1.150	1.184	1.211	1.255	1.168	1.233	1.195	3.44
12)	gamma-Chlord	1.208	1.156	1.183	1.216	1.236	1.294	1.154	1.268	1.215	4.15
13)	alpha-Chlord	1.195	1.127	1.135	1.170	1.186	1.232	1.190	1.212	1.181	3.04
14)	Endosulfan I	1.225	1.122	1.120	1.144	1.162	1.202	1.118	1.186	1.160	3.52
15)	4,4'-DDE	1.146	1.039	1.061	1.118	1.143	1.198	1.032	1.170	1.113	5.59
16)	Dieldrin	1.267	1.157	1.186	1.226	1.257	1.313	1.134	1.290	1.229	5.24
17)	Endrin	1.156	1.086	1.090	1.131	1.157	1.220	1.134	1.205	1.147	4.21
18)	4,4'-DDD	0.814	0.787	0.818	0.850	0.866	0.912	0.801	0.903	0.844	5.54
19)	Endosulfan I	1.090	1.002	1.045	1.066	1.075	1.117	0.977	1.125	1.062	4.91
20)	4,4'-DDT	0.614	0.632	0.684	0.749	0.795	0.864	0.589	0.842	0.721	14.77
21)	Endrin Aldeh	0.812	0.769	0.717	0.728	0.730	0.754	0.821	0.753	0.761	5.07
22)	Endosulfan S	0.974	0.870	0.882	0.896	0.908	0.950	0.856	0.940	0.909	4.59
23)	Methoxychlor	0.425	0.425	0.412	0.430	0.435	0.459	0.440	0.450	0.435	3.43
24)	Mirex	0.862	0.772	0.740	0.717	0.692	0.699	0.882	0.699	0.758	9.94
25)	Endrin Keton	1.106	1.028	1.043	1.060	1.056	1.105	0.875	1.109	1.048	7.31
26)	Decachlorobi	1.352	1.020	1.031	1.009	1.012	0.995	1.087	1.012	1.065	11.22

27)	I 1-bromo-2-nitrobenzen	----------ISTD----------			
28)	Toxaphene{A}		0.006	0.006	0.00
29)	Toxaphene{B}		0.027	0.027	0.00
30)	Toxaphene{C}		0.012	0.012	0.00
31)	Toxaphene{D}		0.022	0.022	0.00
32)	Toxaphene{E}		0.019	0.019	0.00

33)	I 1-bromo-2-nitrobenzen	----------ISTD----------			
34)	Chlordane {A		0.068	0.068	0.00
35)	Chlordane {B		0.036	0.036	0.00
36)	Chlordane {C		0.135	0.135	0.00
37)	Chlordane {D		0.214	0.214	0.00
38)	Chlordane {E		0.031	0.031	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

1PST6859.M Mon Jan 29 09:55:34 2024

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G6859-ICV6859
Lab FileID: 1G192523.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\1G6859\1g192523.d\ECD1A.CH Vial: 14
Signal #2 : C:\msdchem\1\data\1G6859\1g192523.d\ECD2B.CH
Acq On : 29 Jan 2024 8:45 am Operator: rebeccak
Sample : icv6859-25 (Pest Mix) Inst : GC1G
Misc : op51957,g1g6859,250,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\methods\1PST6859.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Mon Jan 29 09:45:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.27- 1.33
2	SAB	Tetrachloro-m-xylene	0.958	0.893	6.8	103	0.00	1.74- 1.80
3		Hexachlorobenzene	1.062	1.124	-5.8	113	0.00	2.02- 2.08
4	A	alpha-BHC	1.340	1.269	5.3	99	0.00	2.13- 2.19
5	MA	gamma-BHC	1.209	1.129	6.6	97	0.00	2.38- 2.44
6	MA	Heptachlor	1.310	1.248	4.7	99	0.00	2.79- 2.85
7	B	beta-BHC	0.560	0.528	5.7	101	0.00	2.45- 2.51
8	B	delta-BHC	1.048	1.045	0.3	100	0.00	2.61- 2.67
9	MB	Aldrin	1.187	1.122	5.5	99	0.00	3.08- 3.14
10		Alachlor	0.152	0.152	0.0	105	0.00	3.21- 3.27
11	B	Heptachlor Epoxide	1.156	1.084	6.2	98	0.00	3.73- 3.79
12	B	gamma-Chlordane	1.161	1.089	6.2	99	0.00	3.89- 3.95
13	B	alpha-Chlordane	1.155	1.066	7.7	98	0.00	4.04- 4.10
14	A	Endosulfan I	1.132	1.066	5.8	99	0.00	4.21- 4.27
15	B	4,4'-DDE	0.940	0.860	8.5	96	0.00	4.16- 4.22
16	MA	Dieldrin	1.131	1.058	6.5	98	0.00	4.52- 4.58
17	MA	Endrin	1.080	1.012	6.3	100	0.00	4.83- 4.89
18	A	4,4'-DDD	0.824	0.783	5.0	101	0.00	4.97- 5.04
19	B	Endosulfan II	1.017	0.948	6.8	100	0.00	5.15- 5.21
20	MA	4,4'-DDT	0.776	0.753	3.0	99	0.00	5.38- 5.44
21	B	Endrin Aldehyde	0.732	0.776	-6.0	110	0.00	5.78- 5.84
22	B	Endosulfan Sulfate	0.944	0.884	6.4	101	0.00	6.47- 6.53
23	A	Methoxychlor	0.503	0.461	8.3	96	0.00	6.18- 6.24
24		Mirex	0.886	0.962	-8.6	116	0.00	6.29- 6.35
25	B	Endrin Ketone	1.064	1.009	5.2	99	0.00	6.92- 6.98
26	SA	Decachlorobiphenyl	0.976	0.928	4.9	102	0.00	8.81- 8.87
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.20- 1.40
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.20- 1.40
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G6859-ICV6859
Lab FileID: 1G192523.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.23- 1.29
2	SAB	Tetrachloro-m-xylene	0.626	0.576	8.0	102	0.00	1.85- 1.91
3		Hexachlorobenzene	1.377	1.524	-10.7	115	0.00	2.24- 2.30
4	A	alpha-BHC	1.427	1.356	5.0	98	0.00	2.34- 2.40
5	MA	gamma-BHC	1.310	1.217	7.1	98	0.00	2.68- 2.74
6	MA	Heptachlor	1.380	1.334	3.3	100	0.00	3.15- 3.21
7	B	beta-BHC	0.499	0.466	6.6	100	0.00	2.76- 2.82
8	B	delta-BHC	1.220	1.123	8.0	97	0.00	3.07- 3.13
9	MB	Aldrin	1.277	1.238	3.1	99	0.00	3.52- 3.58
10		Alachlor	0.125	0.120	4.0	102	0.00	3.38- 3.44
11	B	Heptachlor Epoxide	1.195	1.123	6.0	99	0.00	4.24- 4.30
12	B	gamma-Chlordane	1.215	1.158	4.7	100	0.00	4.51- 4.57
13	B	alpha-Chlordane	1.181	1.103	6.6	99	0.00	4.71- 4.77
14	A	Endosulfan I	1.160	1.076	7.2	99	0.00	4.79- 4.85
15	B	4,4'-DDE	1.113	1.065	4.3	100	0.00	4.98- 5.04
16	MA	Dieldrin	1.229	1.171	4.7	100	0.00	5.20- 5.26
17	MA	Endrin	1.147	1.083	5.6	100	0.00	5.66- 5.72
18	A	4,4'-DDD	0.844	0.794	5.9	98	0.00	5.89- 5.95
19	B	Endosulfan II	1.062	1.022	3.8	101	0.00	6.01- 6.07
20	MA	4,4'-DDT	0.721	0.710	1.5	99	0.00	6.41- 6.47
21	B	Endrin Aldehyde	0.761	0.762	-0.1	110	0.00	6.57- 6.63
22	B	Endosulfan Sulfate	0.909	0.867	4.6	101	0.00	7.06- 7.12
23	A	Methoxychlor	0.435	0.409	6.0	100	0.00	7.65- 7.71
24		Mirex	0.758	0.803	-5.9	117	0.00	7.90- 7.96
25	B	Endrin Ketone	1.048	1.023	2.4	101	0.00	7.99- 8.05
26	SA	Decachlorobiphenyl	1.065	1.021	4.1	106	0.00	10.22-10.28
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.16- 1.36
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.16- 1.36
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					
36		Chlordane {C}	----------NA----------					
37		Chlordane {D}	----------NA----------					
38		Chlordane {E}	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g192517.d 1PST6859.M Mon Jan 29 09:53:13 2024

10.10.2 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G6859-ICV6859
Lab FileID: 1G192524.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\1G6859\1g192524.d\ECD1A.CH Vial: 15
Signal #2 : C:\msdchem\1\data\1G6859\1g192524.d\ECD2B.CH
Acq On : 29 Jan 2024 9:01 am Operator: rebeccak
Sample : icv6859-500 (Chlordane) Inst : GC1G
Misc : op51957,g1g6859,250,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\methods\1PST6859.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Mon Jan 29 09:45:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.27- 1.33
2	SAB	Tetrachloro-m-xylene	0.958	0.995	-3.9	114	0.00	1.74- 1.80
3		Hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		Alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	0.976	0.944	3.3	108	0.00	8.80- 8.86
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.20- 1.40
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.20- 1.40
34		Chlordane {A}	0.067	0.068	-1.5	107	0.00	2.72- 2.92
35		Chlordane {B}	0.040	0.042	-5.0	109	0.00	3.15- 3.35
36		Chlordane {C}	0.130	0.137	-5.4	111	0.00	3.81- 4.01
37		Chlordane {D}	0.206	0.218	-5.8	112	0.00	3.96- 4.16
38		Chlordane {E}	0.030	0.030	0.0	108	0.00	4.99- 5.19

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G6859-ICV6859
Lab FileID: 1G192524.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.23- 1.29
2	SAB	Tetrachloro-m-xylene	0.626	0.657	-5.0	119	0.00	1.84- 1.90
3		Hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		Alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	1.065	1.066	-0.1	111	0.00	10.21-10.27
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.16- 1.36
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.16- 1.36
34		Chlordane {A}	0.068	0.069	-1.5	107	0.00	3.08- 3.28
35		Chlordane {B}	0.036	0.036	0.0	105	0.00	3.63- 3.83
36		Chlordane {C}	0.135	0.141	-4.4	110	0.00	4.44- 4.64
37		Chlordane {D}	0.214	0.225	-5.1	111	0.00	4.64- 4.84
38		Chlordane {E}	0.031	0.031	0.0	106	0.00	6.01- 6.21

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g192518.d 1PST6859.M Mon Jan 29 09:54:04 2024

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G6859-ICV6859
Lab FileID: 1G192525.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\1G6859\1g192525.d\ECD1A.CH Vial: 16
Signal #2 : C:\msdchem\1\data\1G6859\1g192525.d\ECD2B.CH
Acq On : 29 Jan 2024 9:17 am Operator: rebeccak
Sample : icv6859-500 (Toxaphene) Inst : GC1G
Misc : op51957,g1g6859,250,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\methods\1PST6859.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Mon Jan 29 09:45:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.27- 1.33
2	SAB	Tetrachloro-m-xylene	0.958	0.920	4.0	105	0.00	1.74- 1.80
3		Hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		Alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	0.976	0.922	5.5	105	0.00	8.80- 8.86
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.20- 1.40
28	L8	Toxaphene{A}	0.006	0.006	0.0	102	0.00	3.95- 4.15
29	L8	Toxaphene{B}	0.009	0.008	11.1	97	0.00	4.58- 4.78
30	L8	Toxaphene{C}	0.017	0.018	-5.9	106	0.00	5.25- 5.45
31	L8	Toxaphene{D}	0.018	0.019	-5.6	106	0.00	5.59- 5.79
32	L8	Toxaphene{E}	0.023	0.024	-4.3	104	0.00	6.24- 6.44
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.20- 1.40
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G6859-ICV6859
Lab FileID: 1G192525.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.23- 1.29
2	SAB	Tetrachloro-m-xylene	0.626	0.606	3.2	109	0.00	1.84- 1.90
3		Hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		Alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	1.065	1.006	5.5	104	0.00	10.21-10.27
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.16- 1.36
28	L8	Toxaphene{A}	0.006	0.006	0.0	96	0.00	5.28- 5.48
29	L8	Toxaphene{B}	0.027	0.027	0.0	98	0.00	6.08- 6.28
30	L8	Toxaphene{C}	0.012	0.012	0.0	99	0.00	6.39- 6.59
31	L8	Toxaphene{D}	0.022	0.022	0.0	100	0.00	6.52- 6.72
32	L8	Toxaphene{E}	0.019	0.020	-5.3	103	0.00	7.40- 7.60
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.16- 1.36
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g192518.d 1PST6859.M Mon Jan 29 09:54:16 2024

10.10.4 10

Continuing Calibration Summary

Job Number: JD91339 **Sample:** G1G7071-CC6859
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1G197566.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\na...1\1g197566.d\ECD1A.CH Vial: 2
Signal #2 : C:\msdchem\1\data\nazary...G7071\1g197566.d\ECD2B.CH
Acq On : 01-Jul-24, 23:02:27 Operator: christp
Sample : cc6859-25 Inst : GC1G
Misc : op55742,g1g7071,250,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...7071\1PST6859a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Tue Jul 02 10:04:33 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	88	0.00	1.03- 1.09
2	SAB	Tetrachloro-m-xylene	0.958	0.938	2.1	90	0.00	1.47- 1.53
3		Hexachlorobenzene	1.062	1.311	-23.4#	110	0.00	1.73- 1.79
4	A	alpha-BHC	1.340	1.253	6.5	81	0.00	1.82- 1.88
5	MA	gamma-BHC	1.209	1.083	10.4	78	0.00	2.05- 2.11
6	MA	Heptachlor	1.310	1.127	14.0	75	0.00	2.42- 2.48
7	B	beta-BHC	0.560	0.492	12.1	79	0.00	2.13- 2.19
8	B	delta-BHC	1.048	1.023	2.4	82	0.00	2.28- 2.34
9	MB	Aldrin	1.187	1.032	13.1	76	0.00	2.69- 2.75
10		Alachlor	0.152	0.122	19.7	70	0.00	2.81- 2.87
11	B	Heptachlor Epoxide	1.156	0.989	14.4	75	0.00	3.28- 3.34
12	B	gamma-Chlordane	1.161	0.982	15.4	75	0.00	3.43- 3.49
13	B	alpha-Chlordane	1.155	1.049	9.2	81	0.00	3.57- 3.63
14	A	Endosulfan I	1.132	1.181	-4.3	92	0.00	3.72- 3.78
15	B	4,4'-DDE	0.940	0.791	15.9	74	0.00	3.70- 3.76
16	MA	Dieldrin	1.131	1.037	8.3	81	0.00	4.01- 4.07
17	MA	Endrin	1.080	0.997	7.7	82	0.00	4.30- 4.36
18	A	4,4'-DDD	0.824	0.778	5.6	84	0.00	4.46- 4.53
19	B	Endosulfan II	1.017	0.957	5.9	84	0.00	4.61- 4.67
20	MA	4,4'-DDT	0.776	0.736	5.2	81	0.00	4.84- 4.90
21	B	Endrin Aldehyde	0.732	0.612	16.4	72	0.00	5.19- 5.25
22	B	Endosulfan Sulfate	0.944	0.782	17.2	75	0.00	5.84- 5.90
23	A	Methoxychlor	0.503	0.406	19.3	70	0.00	5.62- 5.68
24		Mirex	0.886	0.784	11.5	79	0.00	5.68- 5.74
25	B	Endrin Ketone	1.064	0.929	12.7	76	0.00	6.28- 6.34
26	SA	Decachlorobiphenyl	0.976	1.071	-9.7	99	0.00	8.14- 8.20
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	88	0.00	0.96- 1.16
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	88	0.00	0.96- 1.16
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G7071-CC6859
Lab FileID: 1G197566.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	110	0.00	1.00- 1.06
2	SAB	Tetrachloro-m-xylene	0.626	0.627	-0.2	116	0.00	1.57- 1.63
3		Hexachlorobenzene	1.377	1.386	-0.7	109	0.00	1.94- 2.00
4	A	alpha-BHC	1.427	1.471	-3.1	112	0.00	2.03- 2.09
5	MA	gamma-BHC	1.310	1.281	2.2	108	0.00	2.34- 2.40
6	MA	Heptachlor	1.380	1.454	-5.4	114	0.00	2.77- 2.83
7	B	beta-BHC	0.499	0.468	6.2	105	0.00	2.43- 2.49
8	B	delta-BHC	1.220	1.161	4.8	105	0.00	2.72- 2.78
9	MB	Aldrin	1.277	1.311	-2.7	110	0.00	3.11- 3.17
10		Alachlor	0.125	0.119	4.8	105	0.00	2.99- 3.05
11	B	Heptachlor Epoxide	1.195	1.178	1.4	109	0.00	3.79- 3.85
12	B	gamma-Chlordane	1.215	1.195	1.6	108	0.00	4.04- 4.10
13	B	alpha-Chlordane	1.181	1.160	1.8	109	0.00	4.23- 4.29
14	A	Endosulfan I	1.160	1.127	2.8	108	0.00	4.30- 4.36
15	B	4,4'-DDE	1.113	1.184	-6.4	116	0.00	4.49- 4.55
16	MA	Dieldrin	1.229	1.296	-5.5	116	0.00	4.68- 4.74
17	MA	Endrin	1.147	1.187	-3.5	115	0.00	5.13- 5.19
18	A	4,4'-DDD	0.844	0.889	-5.3	115	0.00	5.37- 5.43
19	B	Endosulfan II	1.062	1.088	-2.4	112	0.00	5.47- 5.53
20	MA	4,4'-DDT	0.721	0.795	-10.3	116	0.00	5.86- 5.92
21	B	Endrin Aldehyde	0.761	0.739	2.9	111	0.00	6.01- 6.07
22	B	Endosulfan Sulfate	0.909	0.904	0.6	110	0.00	6.47- 6.53
23	A	Methoxychlor	0.435	0.451	-3.7	115	0.00	7.07- 7.13
24		Mirex	0.758	0.728	4.0	111	0.00	7.27- 7.33
25	B	Endrin Ketone	1.048	1.057	-0.9	109	0.00	7.37- 7.43
26	SA	Decachlorobiphenyl	1.065	1.138	-6.9	124	0.00	9.71- 9.77
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	110	0.00	0.93- 1.13
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	110	0.00	0.93- 1.13
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					
36		Chlordane {C}	----------NA----------					
37		Chlordane {D}	----------NA----------					
38		Chlordane {E}	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g197399.d 1PST6859a.M Tue Jul 02 11:53:31 2024

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G7071-CC6859
Lab FileID: 1G197583.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\na...1\1g197583.d\ECD1A.CH Vial: 4
Signal #2 : C:\msdchem\1\data\nazary...G7071\1g197583.d\ECD2B.CH
Acq On : 02-Jul-24, 03:23:26 Operator: christp
Sample : cc6859-50 Inst : GC1G
Misc : op55772a,g1g7071,250,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...7071\1PST6859a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Tue Jul 02 10:04:33 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	118	0.00	1.03- 1.09
2	SAB	Tetrachloro-m-xylene	0.958	0.923	3.7	117	0.00	1.47- 1.53
3		Hexachlorobenzene	1.062	1.284	-20.9#	145	0.00	1.73- 1.79
4	A	alpha-BHC	1.340	1.368	-2.1	113	0.00	1.82- 1.88
5	MA	gamma-BHC	1.209	1.171	3.1	108	0.00	2.05- 2.11
6	MA	Heptachlor	1.310	1.223	6.6	107	0.00	2.42- 2.48
7	B	beta-BHC	0.560	0.546	2.5	116	0.00	2.14- 2.20
8	B	delta-BHC	1.048	1.113	-6.2	112	0.00	2.28- 2.34
9	MB	Aldrin	1.187	1.124	5.3	108	0.00	2.69- 2.75
10		Alachlor	0.152	0.135	11.2	107	0.00	2.82- 2.88
11	B	Heptachlor Epoxide	1.156	1.076	6.9	108	0.00	3.28- 3.34
12	B	gamma-Chlordane	1.161	1.121	3.4	112	0.00	3.43- 3.49
13	B	alpha-Chlordane	1.155	1.105	4.3	113	0.00	3.57- 3.63
14	A	Endosulfan I	1.132	2.155	-90.4#	222#	0.00	3.72- 3.78
15	B	4,4'-DDE	0.940	2.155	-129.3#	253#	0.00	3.72- 3.78
16	MA	Dieldrin	1.131	1.135	-0.4	114	0.00	4.01- 4.07
17	MA	Endrin	1.080	1.071	0.8	115	0.00	4.30- 4.36
18	A	4,4'-DDD	0.824	0.842	-2.2	116	0.00	4.47- 4.54
19	B	Endosulfan II	1.017	1.078	-6.0	125	0.00	4.61- 4.67
20	MA	4,4'-DDT	0.776	0.865	-11.5	120	0.00	4.84- 4.90
21	B	Endrin Aldehyde	0.732	0.662	9.6	105	0.00	5.20- 5.26
22	B	Endosulfan Sulfate	0.944	0.905	4.1	115	0.00	5.84- 5.90
23	A	Methoxychlor	0.503	0.393	21.9#	91	0.00	5.63- 5.69
24		Mirex	0.886	0.944	-6.5	132	0.00	5.68- 5.74
25	B	Endrin Ketone	1.064	1.042	2.1	112	0.00	6.28- 6.34
26	SA	Decachlorobiphenyl	0.976	1.106	-13.3	140	0.00	8.14- 8.20
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	112	0.00	0.96- 1.16
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	118	0.00	0.96- 1.16
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G7071-CC6859
Lab FileID: 1G197583.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	146	0.00	1.00- 1.06
2	SAB	Tetrachloro-m-xylene	0.626	0.609	2.7	153#	0.00	1.58- 1.64
3		Hexachlorobenzene	1.377	1.381	-0.3	146	0.00	1.94- 2.00
4	A	alpha-BHC	1.427	1.583	-10.9	153#	0.00	2.03- 2.09
5	MA	gamma-BHC	1.310	1.394	-6.4	150#	0.00	2.34- 2.40
6	MA	Heptachlor	1.380	1.605	-16.3	162#	0.00	2.77- 2.83
7	B	beta-BHC	0.499	0.513	-2.8	152#	0.00	2.43- 2.49
8	B	delta-BHC	1.220	1.228	-0.7	139	0.00	2.72- 2.78
9	MB	Aldrin	1.277	1.400	-9.6	152#	0.00	3.11- 3.17
10		Alachlor	0.125	0.121	3.2	144	0.00	2.99- 3.05
11	B	Heptachlor Epoxide	1.195	1.282	-7.3	154#	0.00	3.79- 3.85
12	B	gamma-Chlordane	1.215	1.313	-8.1	155#	0.00	4.04- 4.10
13	B	alpha-Chlordane	1.181	1.258	-6.5	155#	0.00	4.23- 4.29
14	A	Endosulfan I	1.160	1.251	-7.8	157#	0.00	4.30- 4.36
15	B	4,4'-DDE	1.113	1.217	-9.3	155#	0.00	4.49- 4.55
16	MA	Dieldrin	1.229	1.365	-11.1	158#	0.00	4.68- 4.74
17	MA	Endrin	1.147	1.256	-9.5	158#	0.00	5.13- 5.19
18	A	4,4'-DDD	0.844	0.924	-9.5	156#	0.00	5.37- 5.43
19	B	Endosulfan II	1.062	1.176	-10.7	159#	0.00	5.47- 5.53
20	MA	4,4'-DDT	0.721	0.913	-26.6#	168#	0.00	5.86- 5.92
21	B	Endrin Aldehyde	0.761	0.764	-0.4	153#	0.00	6.01- 6.07
22	B	Endosulfan Sulfate	0.909	0.952	-4.7	153#	0.00	6.47- 6.53
23	A	Methoxychlor	0.435	0.498	-14.5	167#	0.00	7.08- 7.14
24		Mirex	0.758	0.767	-1.2	162#	0.00	7.27- 7.33
25	B	Endrin Ketone	1.048	1.128	-7.6	156#	0.00	7.37- 7.43
26	SA	Decachlorobiphenyl	1.065	1.130	-6.1	163#	0.00	9.71- 9.77
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	140	0.00	0.93- 1.13
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	147	0.00	0.93- 1.13
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					
36		Chlordane {C}	----------NA----------					
37		Chlordane {D}	----------NA----------					
38		Chlordane {E}	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g197566.d 1PST6859a.M Tue Jul 02 10:45:39 2024

10.10.6 10

Continuing Calibration Summary

Job Number: JD91339 **Sample:** G1G7072-CC6859
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 1G197586.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\ma...2\1g197586.d\ECD1A.CH Vial: 2
Signal #2 : C:\msdchem\1\data\maryan...G7072\1g197586.d\ECD2B.CH
Acq On : 02-Jul-24, 05:17:51 Operator: christp
Sample : cc6859-25 Inst : GC1G
Misc : op55772,g1g7072,250,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...7072\1PST6859a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Tue Jul 02 10:11:04 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	91	0.00	1.02- 1.08
2	SAB	Tetrachloro-m-xylene	0.958	0.907	5.3	89	0.00	1.46- 1.52
3		Hexachlorobenzene	1.062	1.257	-18.4	108	0.00	1.72- 1.78
4	A	alpha-BHC	1.340	1.223	8.7	82	0.00	1.81- 1.87
5	MA	gamma-BHC	1.209	1.055	12.7	78	0.00	2.05- 2.11
6	MA	Heptachlor	1.310	1.074	18.0	73	0.00	2.42- 2.48
7	B	beta-BHC	0.560	0.482	13.9	79	0.00	2.13- 2.19
8	B	delta-BHC	1.048	0.988	5.7	81	0.00	2.27- 2.33
9	MB	Aldrin	1.187	0.969	18.4	73	0.00	2.69- 2.75
10		Alachlor	0.152	0.128	15.8	76	0.00	2.81- 2.87
11	B	Heptachlor Epoxide	1.156	0.955	17.4	74	0.00	3.28- 3.34
12	B	gamma-Chlordane	1.161	0.955	17.7	74	0.00	3.42- 3.48
13	B	alpha-Chlordane	1.155	0.949	17.8	75	0.00	3.57- 3.63
14	A	Endosulfan I	1.132	1.114	1.6	89	0.00	3.72- 3.78
15	B	4,4'-DDE	0.940	0.802	14.7	77	0.00	3.70- 3.76
16	MA	Dieldrin	1.131	0.999	11.7	80	0.00	4.01- 4.07
17	MA	Endrin	1.080	0.954	11.7	81	0.00	4.30- 4.36
18	A	4,4'-DDD	0.824	0.745	9.6	82	0.00	4.46- 4.53
19	B	Endosulfan II	1.017	0.893	12.2	81	0.00	4.61- 4.67
20	MA	4,4'-DDT	0.776	0.732	5.7	83	0.00	4.84- 4.90
21	B	Endrin Aldehyde	0.732	0.624	14.8	76	0.00	5.19- 5.25
22	B	Endosulfan Sulfate	0.944	0.786	16.7	77	0.00	5.84- 5.90
23	A	Methoxychlor	0.503	0.408	18.9	73	0.00	5.62- 5.68
24		Mirex	0.886	0.781	11.9	81	0.00	5.68- 5.74
25	B	Endrin Ketone	1.064	0.959	9.9	81	0.00	6.28- 6.34
26	SA	Decachlorobiphenyl	0.976	1.095	-12.2	104	0.00	8.14- 8.20
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	91	0.00	0.95- 1.15
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	91	0.00	0.95- 1.15
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G7072-CC6859
Lab FileID: 1G197586.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	1.00- 1.06
2	SAB	Tetrachloro-m-xylene	0.626	0.611	2.4	112	0.00	1.57- 1.63
3		Hexachlorobenzene	1.377	1.378	-0.1	107	0.00	1.93- 1.99
4	A	alpha-BHC	1.427	1.453	-1.8	109	0.00	2.03- 2.09
5	MA	gamma-BHC	1.310	1.271	3.0	106	0.00	2.34- 2.40
6	MA	Heptachlor	1.380	1.442	-4.5	112	0.00	2.77- 2.83
7	B	beta-BHC	0.499	0.467	6.4	103	0.00	2.43- 2.49
8	B	delta-BHC	1.220	1.172	3.9	104	0.00	2.72- 2.78
9	MB	Aldrin	1.277	1.284	-0.5	107	0.00	3.11- 3.17
10		Alachlor	0.125	0.116	7.2	101	0.00	2.99- 3.05
11	B	Heptachlor Epoxide	1.195	1.225	-2.5	112	0.00	3.79- 3.85
12	B	gamma-Chlordane	1.215	1.181	2.8	105	0.00	4.04- 4.10
13	B	alpha-Chlordane	1.181	1.139	3.6	106	0.00	4.23- 4.29
14	A	Endosulfan I	1.160	1.104	4.8	105	0.00	4.30- 4.36
15	B	4,4'-DDE	1.113	1.183	-6.3	115	0.00	4.49- 4.55
16	MA	Dieldrin	1.229	1.250	-1.7	111	0.00	4.68- 4.74
17	MA	Endrin	1.147	1.163	-1.4	112	0.00	5.13- 5.19
18	A	4,4'-DDD	0.844	0.854	-1.2	109	0.00	5.37- 5.43
19	B	Endosulfan II	1.062	1.066	-0.4	108	0.00	5.47- 5.53
20	MA	4,4'-DDT	0.721	0.817	-13.3	118	0.00	5.86- 5.92
21	B	Endrin Aldehyde	0.761	0.738	3.0	110	0.00	6.01- 6.07
22	B	Endosulfan Sulfate	0.909	0.913	-0.4	110	0.00	6.48- 6.54
23	A	Methoxychlor	0.435	0.456	-4.8	115	0.00	7.08- 7.14
24		Mirex	0.758	0.727	4.1	110	0.00	7.27- 7.33
25	B	Endrin Ketone	1.048	1.113	-6.2	114	0.00	7.37- 7.43
26	SA	Decachlorobiphenyl	1.065	1.152	-8.2	124	0.00	9.72- 9.78
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	0.93- 1.13
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	0.93- 1.13
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					
36		Chlordane {C}	----------NA----------					
37		Chlordane {D}	----------NA----------					
38		Chlordane {E}	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g197399.d 1PST6859a.M Tue Jul 02 10:35:11 2024

10.10.7 10

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G7072-CC6859
Lab FileID: 1G197604.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\ma...2\1g197604.d\ECD1A.CH Vial: 4
Signal #2 : C:\msdchem\1\data\maryan...G7072\1g197604.d\ECD2B.CH
Acq On : 02-Jul-24, 09:53:41 Operator: christp
Sample : cc6859-50 Inst : GC1G
Misc : op55772,g1g7072,250,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...7072\1PST6859a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Tue Jul 02 14:09:07 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	122	0.00	1.03- 1.09
2	SAB	Tetrachloro-m-xylene	0.958	0.875	8.7	115	0.00	1.47- 1.53
3		Hexachlorobenzene	1.062	1.237	-16.5	145	0.00	1.73- 1.79
4	A	alpha-BHC	1.340	1.317	1.7	112	0.00	1.82- 1.88
5	MA	gamma-BHC	1.209	1.137	6.0	109	0.00	2.05- 2.11
6	MA	Heptachlor	1.310	1.195	8.8	108	0.00	2.42- 2.48
7	B	beta-BHC	0.560	0.534	4.6	117	0.00	2.13- 2.19
8	B	delta-BHC	1.048	1.092	-4.2	114	0.00	2.28- 2.34
9	MB	Aldrin	1.187	1.078	9.2	107	0.00	2.69- 2.75
10		Alachlor	0.152	0.130	14.5	106	0.00	2.81- 2.87
11	B	Heptachlor Epoxide	1.156	1.019	11.9	106	0.00	3.28- 3.34
12	B	gamma-Chlordane	1.161	1.052	9.4	109	0.00	3.43- 3.49
13	B	alpha-Chlordane	1.155	1.040	10.0	110	0.00	3.57- 3.63
14	A	Endosulfan I	1.132	1.543	-36.3#	164#	0.00	3.72- 3.78
15	B	4,4'-DDE	0.940	0.430	54.3#	52	0.00	3.70- 3.76
16	MA	Dieldrin	1.131	1.070	5.4	111	0.00	4.01- 4.07
17	MA	Endrin	1.080	1.016	5.9	113	0.00	4.30- 4.36
18	A	4,4'-DDD	0.824	0.793	3.8	113	0.00	4.46- 4.53
19	B	Endosulfan II	1.017	0.950	6.6	114	0.00	4.61- 4.67
20	MA	4,4'-DDT	0.776	0.753	3.0	108	0.00	4.84- 4.90
21	B	Endrin Aldehyde	0.732	0.654	10.7	107	0.00	5.19- 5.25
22	B	Endosulfan Sulfate	0.944	0.834	11.7	109	0.00	5.84- 5.90
23	A	Methoxychlor	0.503	0.394	21.7#	94	0.00	5.63- 5.69
24		Mirex	0.886	0.864	2.5	125	0.00	5.68- 5.74
25	B	Endrin Ketone	1.064	1.071	-0.7	119	0.00	6.28- 6.34
26	SA	Decachlorobiphenyl	0.976	1.094	-12.1	143	0.00	8.14- 8.20
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	116	0.00	0.96- 1.16
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	121	0.00	0.96- 1.16
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G1G7072-CC6859
Lab FileID: 1G197604.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	147	0.00	1.00- 1.06
2	SAB	Tetrachloro-m-xylene	0.626	0.609	2.7	154#	0.00	1.57- 1.63
3		Hexachlorobenzene	1.377	1.379	-0.1	147	0.00	1.94- 2.00
4	A	alpha-BHC	1.427	1.587	-11.2	154#	0.00	2.03- 2.09
5	MA	gamma-BHC	1.310	1.400	-6.9	152#	0.00	2.34- 2.40
6	MA	Heptachlor	1.380	1.606	-16.4	163#	0.00	2.77- 2.83
7	B	beta-BHC	0.499	0.512	-2.6	153#	0.00	2.43- 2.49
8	B	delta-BHC	1.220	1.249	-2.4	143	0.00	2.72- 2.78
9	MB	Aldrin	1.277	1.402	-9.8	154#	0.00	3.11- 3.17
10		Alachlor	0.125	0.121	3.2	146	0.00	2.99- 3.05
11	B	Heptachlor Epoxide	1.195	1.277	-6.9	155#	0.00	3.79- 3.85
12	B	gamma-Chlordane	1.215	1.307	-7.6	155#	0.00	4.04- 4.10
13	B	alpha-Chlordane	1.181	1.249	-5.8	155#	0.00	4.23- 4.29
14	A	Endosulfan I	1.160	1.232	-6.2	156#	0.00	4.30- 4.36
15	B	4,4'-DDE	1.113	1.176	-5.7	151#	0.00	4.49- 4.55
16	MA	Dieldrin	1.229	1.317	-7.2	154#	0.00	4.68- 4.74
17	MA	Endrin	1.147	1.168	-1.8	148	0.00	5.13- 5.19
18	A	4,4'-DDD	0.844	0.848	-0.5	144	0.00	5.37- 5.43
19	B	Endosulfan II	1.062	1.087	-2.4	148	0.00	5.47- 5.53
20	MA	4,4'-DDT	0.721	0.899	-24.7#	166#	0.00	5.86- 5.92
21	B	Endrin Aldehyde	0.761	0.762	-0.1	153#	0.00	6.01- 6.07
22	B	Endosulfan Sulfate	0.909	0.972	-6.9	157#	0.00	6.47- 6.53
23	A	Methoxychlor	0.435	0.549	-26.2#	185#	0.00	7.08- 7.14
24		Mirex	0.758	0.766	-1.1	163#	0.00	7.27- 7.33
25	B	Endrin Ketone	1.048	1.166	-11.3	162#	0.00	7.37- 7.43
26	SA	Decachlorobiphenyl	1.065	1.144	-7.4	166#	0.00	9.71- 9.77
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	141	0.00	0.93- 1.13
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	148	0.00	0.93- 1.13
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1g197604.d 1PST6859a.M Tue Jul 02 14:20:53 2024

10.10.8 10

Initial Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICC5160
Lab FileID: 3G140974.D

Response Factor Report GC3G

Method : C:\MSDCHEM\1\METHODS\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : 23 Apr 2024 19:54 pm
Response via : Initial Calibration

Calibration Files
50 =3G140971.d 250 =3G140972.d 500 =3G140973.d 1000=3G140974.d
2000 =3G140975.d 3000 =3G140976.d

	Compound	50	250	500	1000	2000	3000	Avg	%RSD
1) S	Tetrachloro-m-xylen	8.746	7.746	8.718	8.234	7.118	6.840	7.900 E6	10.21
2)	AR1221-A				5.856			5.856 E4	0.00
3)	AR1221-B				8.729			8.729 E4	0.00
4)	AR1221-C				2.033			2.033 E5	0.00
5)	AR1221-D				4.713			4.713 E4	0.00
6)	AR1221-E				4.835			4.835 E4	0.00
7)	AR1232-A				1.426			1.426 E5	0.00
8)	AR1232-B				1.039			1.039 E5	0.00
9)	AR1232-C				2.211			2.211 E5	0.00
10)	AR1232-D				9.464			9.464 E4	0.00
11)	AR1232-E				9.332			9.332 E4	0.00
12)	AR1242-A				1.957			1.957 E5	0.00
13)	AR1242-B				3.996			3.996 E5	0.00
14)	AR1242-C				1.705			1.705 E5	0.00
15)	AR1242-D				1.852			1.852 E5	0.00
16)	AR1242-E				1.476			1.476 E5	0.00
17)	AR1248-A				9.354			9.354 E4	0.00
18)	AR1248-B				2.520			2.520 E5	0.00
19)	AR1248-C				1.451			1.451 E5	0.00
20)	AR1248-D				2.090			2.090 E5	0.00
21)	AR1248-E				1.471			1.471 E5	0.00
22)	AR1248-F				2.440			2.440 E5	0.00
23)	AR1248-G				2.093			2.093 E5	0.00
24)	AR1254-A				2.258			2.258 E5	0.00
25)	AR1254-B				3.123			3.123 E5	0.00
26)	AR1254-C				2.540			2.540 E5	0.00
27)	AR1254-D				4.359			4.359 E5	0.00
28)	AR1254-E				3.072			3.072 E5	0.00
29)	AR1254-F				3.019			3.019 E5	0.00
30)	AR1254-G				4.379			4.379 E5	0.00
31)	AR1262-A				3.466			3.466 E5	0.00
32)	AR1262-B				4.396			4.396 E5	0.00
33)	AR1262-C				4.179			4.179 E5	0.00
34)	AR1262-D				9.474			9.474 E5	0.00
35)	AR1262-E				1.030			1.030 E6	0.00
36)	AR1268-A				8.907			8.907 E5	0.00
37)	AR1268-B				9.936			9.936 E5	0.00
38)	AR1268-C				7.917			7.917 E5	0.00
39)	AR1268-D				3.299			3.299 E5	0.00
40)	AR1268-E				2.566			2.566 E6	0.00
41)	AR1016-A	1.633	1.427	1.452	1.291	1.111	1.038	1.325 E5	16.89
42)	AR1016-B	3.187	2.716	2.795	2.532	2.161	2.050	2.573 E5	16.41
43)	AR1016-C	6.440	5.454	5.764	5.384	4.727	4.518	5.381 E5	13.00
44)	AR1016-D	3.016	2.514	2.473	2.272	1.979	1.877	2.355 E5	17.54
45)	AR1016-E	2.895	2.574	2.700	2.480	2.177	2.088	2.486 E5	12.39
46)	AR1260-A	5.069	4.554	4.969	4.784	4.345	4.194	4.652 E5	7.48
47)	AR1260-B	3.110	2.824	3.116	2.980	2.698	2.604	2.889 E5	7.44

Initial Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICC5160
Lab FileID: 3G140974.D

48)		AR1260-C	3.299	2.953	3.387	3.283	3.028	2.944	3.149 E5	6.22
49)		AR1260-D	7.554	7.042	8.289	7.949	7.242	7.001	7.513 E5	6.92
50)		AR1260-E	7.944	7.377	8.156	7.928	7.233	7.000	7.606 E5	6.11
51)	S	Decachlorobiphenyl	6.815	6.290	7.737	7.364	5.940	5.783	6.655 E6	11.84

Signal #2

1)	S	Tetrachloro-m-xylen	1.938	1.797	2.023	1.914	1.647	1.577	1.816 E7	9.64
2)		AR1221-A				1.095			1.095 E5	0.00
3)		AR1221-B				2.051			2.051 E5	0.00
4)		AR1221-C				4.615			4.615 E5	0.00
5)		AR1221-D				1.625			1.625 E5	0.00
6)		AR1221-E				1.156			1.156 E5	0.00
7)		AR1232-A				3.228			3.228 E5	0.00
8)		AR1232-B				2.666			2.666 E5	0.00
9)		AR1232-C				5.506			5.506 E5	0.00
10)		AR1232-D				2.189			2.189 E5	0.00
11)		AR1232-E				1.539			1.539 E5	0.00
12)		AR1242-A				4.516			4.516 E5	0.00
13)		AR1242-B				1.009			1.009 E6	0.00
14)		AR1242-C				3.946			3.946 E5	0.00
15)		AR1242-D				3.137			3.137 E5	0.00
16)		AR1242-E				3.868			3.868 E5	0.00
17)		AR1248-A				2.225			2.225 E5	0.00
18)		AR1248-B				6.457			6.457 E5	0.00
19)		AR1248-C				3.767			3.767 E5	0.00
20)		AR1248-D				5.078			5.078 E5	0.00
21)		AR1248-E				4.904			4.904 E5	0.00
22)		AR1248-F				6.976			6.976 E5	0.00
23)		AR1248-G				6.850			6.850 E5	0.00
24)		AR1254-A				6.007			6.007 E5	0.00
25)		AR1254-B				6.732			6.732 E5	0.00
26)		AR1254-C				5.612			5.612 E5	0.00
27)		AR1254-D				1.057			1.057 E6	0.00
28)		AR1254-E				7.961			7.961 E5	0.00
29)		AR1254-F				4.127			4.127 E5	0.00
30)		AR1254-G				8.631			8.631 E5	0.00
31)		AR1262-A				7.914			7.914 E5	0.00
32)		AR1262-B				1.187			1.187 E6	0.00
33)		AR1262-C				1.014			1.014 E6	0.00
34)		AR1262-D				2.317			2.317 E6	0.00
35)		AR1262-E				2.664			2.664 E6	0.00
36)		AR1268-A				2.670			2.670 E6	0.00
37)		AR1268-B				2.588			2.588 E6	0.00
38)		AR1268-C				2.191			2.191 E6	0.00
39)		AR1268-D				8.830			8.830 E5	0.00
40)		AR1268-E				6.339			6.339 E6	0.00
41)		AR1016-A	3.877	3.213	3.375	3.007	2.509	2.347	3.055 E5	18.53
42)		AR1016-B	7.305	6.386	6.673	5.994	5.059	4.667	6.014 E5	16.57
43)		AR1016-C	1.645	1.402	1.483	1.360	1.189	1.112	1.365 E6	14.22
44)		AR1016-D	5.942	5.386	5.777	5.328	4.584	4.274	5.215 E5	12.64
45)		AR1016-E	4.921	4.367	4.607	4.276	3.719	3.510	4.233 E5	12.59
46)		AR1260-A	1.126	0.978	1.051	0.990	0.879	0.841	0.977 E6	10.81
47)		AR1260-B	8.980	8.020	8.660	8.151	7.254	6.993	8.010 E5	9.65
48)		AR1260-C	9.721	8.224	8.941	8.446	7.562	7.280	8.362 E5	10.72
49)		AR1260-D	2.055	1.941	2.122	2.042	1.850	1.783	1.966 E6	6.65
50)		AR1260-E	1.986	1.871	2.098	1.979	1.779	1.683	1.899 E6	8.00
51)	S	Decachlorobiphenyl	1.395	1.394	1.755	1.666	1.311	1.264	1.464 E7	13.61

(#) = Out of Range

Initial Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICC5160
Lab FileID: 3G140974.D

3PCB5160.M Thu Apr 25 11:38:32 2024 RPT1

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140987.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\3G5160\3G140987.d\ECD1A.CH Vial: 19
Signal #2 : C:\msdchem\1\data\3G5160\3G140987.d\ECD2B.CH
Acq On : 23 Apr 2024 19:54 pm Operator: mahalial
Sample : icv5160-1000 (ar1016/1260) Inst : GC3G
Misc : op53949,g3g5160,15.0,,,1,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : Wed Apr 24 07:06:11 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.900	8.976 E6	-13.6	109	0.00	3.44- 3.50
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	132.538	132.562 E3	-0.0	103	0.00	3.85- 3.91

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140987.D

42		AR1016-B	257.349	269.358	E3	-4.7	106	0.00	4.30- 4.36
43		AR1016-C	538.119	561.157	E3	-4.3	104	0.00	4.90- 4.96
44		AR1016-D	235.528	236.730	E3	-0.5	104	0.00	5.07- 5.13
45		AR1016-E	248.580	243.091	E3	2.2	98	0.00	5.61- 5.68
46		AR1260-A	465.226	511.836	E3	-10.0	107	0.00	7.67- 7.73
47		AR1260-B	288.893	256.013	E3	11.4	86	0.00	8.21- 8.27
48		AR1260-C	314.897	297.696	E3	5.5	91	0.00	8.55- 8.62
49		AR1260-D	751.304	726.207	E3	3.3	91	0.00	9.00- 9.06
50		AR1260-E	760.628	677.468	E3	10.9	85	0.01	9.40- 9.46
51	S	Decachlorobiphenyl	6.655	8.236	E6	-23.8#	112	0.01	10.94-11.01

***** Signal #2 *****

1	S	Tetrachloro-m-xylene	18.161	20.504	E6	-12.9	107	0.00	4.05- 4.11
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	305.459	303.986	E3	0.5	101	0.00	4.73- 4.79
42		AR1016-B	601.393	626.868	E3	-4.2	105	0.00	5.30- 5.36
43		AR1016-C	1.365	1.434	E6	-5.1	105	0.00	5.95- 6.01
44		AR1016-D	521.521	558.604	E3	-7.1	105	0.00	6.14- 6.20
45		AR1016-E	423.325	435.185	E3	-2.8	102	0.00	6.81- 6.87
46		AR1260-A	0.977	1.052	E6	-7.7	106	0.00	8.91- 8.97
47		AR1260-B	800.981	740.443	E3	7.6	91	0.00	9.56- 9.62

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140987.D

48		AR1260-C	836.230	796.717	E3	4.7	94	0.00	10.00-10.06
49		AR1260-D	1.966	1.925	E6	2.1	94	0.00	10.34-10.40
50		AR1260-E	1.899	1.768	E6	6.9	89	0.00	10.89-10.95
51	S	Decachlorobiphenyl	14.641	18.184	E6	-24.2#	109	0.00	12.57-12.63

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3G140974.d 3PCB5160.M Wed Apr 24 11:02:01 2024 RPT1

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140988.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\3G5160\3G140988.d\ECD1A.CH Vial: 20
Signal #2 : C:\msdchem\1\data\3G5160\3G140988.d\ECD2B.CH
Acq On : 23 Apr 2024 20:11 pm Operator: mahalial
Sample : icv5160-1000 (ar1221) Inst : GC3G
Misc : op53949,g3g5160,15.0,,,1,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : Wed Apr 24 07:06:11 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	7.900	7.708 E6	2.4	94	0.00	3.44- 3.50
2	AR1221-A	58.563	51.314 E3	12.4	88	0.00	2.77- 2.97
3	AR1221-B	87.295	74.789 E3	14.3	86	0.00	3.55- 3.75
4	AR1221-C	203.322	170.722 E3	16.0	84	0.00	3.78- 3.98
5	AR1221-D	47.135	38.413 E3	18.5	81	0.00	4.23- 4.43
6	AR1221-E	48.348	38.025 E3	21.4#	79	0.00	4.83- 5.03
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140988.D

42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				
48		AR1260-C		----------NA----------				
49		AR1260-D		----------NA----------				
50		AR1260-E		----------NA----------				
51	S	Decachlorobiphenyl	6.655	6.911 E6	-3.8	94	0.02	10.95-11.02
*****		Signal #2 *****						
1	S	Tetrachloro-m-xylene	18.161	18.166 E6	-0.0	95	0.00	4.05- 4.11
2		AR1221-A	109.498	94.735 E3	13.5	87	0.00	3.44- 3.50
3		AR1221-B	205.054	174.079 E3	15.1	85	0.00	4.37- 4.57
4		AR1221-C	461.480	392.103 E3	15.0	85	0.00	4.66- 4.86
5		AR1221-D	162.464	137.654 E3	15.3	85	0.00	5.31- 5.51
6		AR1221-E	115.574	94.702 E3	18.1	82	0.00	5.88- 6.08
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				
42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140988.D

48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	14.641	16.339 E6	-11.6	98	0.00	12.57-12.63	

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3G140974.d 3PCB5160.M Wed Apr 24 11:02:08 2024 RPT1

10.10.11
10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140989.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\3G5160\3G140989.d\ECD1A.CH Vial: 21
Signal #2 : C:\msdchem\1\data\3G5160\3G140989.d\ECD2B.CH
Acq On : 23 Apr 2024 20:28 pm Operator: mahalial
Sample : icv5160-1000 (ar1254) Inst : GC3G
Misc : op53949,g3g5160,15.0,,,1,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : Wed Apr 24 07:06:11 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	7.900	7.669 E6	2.9	93	0.00	3.43- 3.49
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A	225.829	207.200 E3	8.2	92	0.00	6.06- 6.26
25	AR1254-B	312.276	292.276 E3	6.4	94	0.00	6.41- 6.61
26	AR1254-C	253.985	239.623 E3	5.7	94	0.00	6.79- 6.99
27	AR1254-D	435.911	414.187 E3	5.0	95	0.00	6.96- 7.16
28	AR1254-E	307.197	291.634 E3	5.1	95	0.00	7.34- 7.54
29	AR1254-F	301.898	290.456 E3	3.8	96	0.00	7.60- 7.80
30	AR1254-G	437.950	423.096 E3	3.4	97	0.00	7.99- 8.19
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140989.D

42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				
48		AR1260-C		----------NA----------				
49		AR1260-D		----------NA----------				
50		AR1260-E		----------NA----------				
51	S	Decachlorobiphenyl	6.655	7.278 E6	-9.4	99	0.02	10.95-11.02
*****		Signal #2 *****						
1	S	Tetrachloro-m-xylene	18.161	18.250 E6	-0.5	95	0.00	4.05- 4.11
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A	600.685	587.591 E3	2.2	98	0.00	7.34- 7.54
25		AR1254-B	673.229	652.026 E3	3.1	97	0.00	7.60- 7.80
26		AR1254-C	561.178	547.706 E3	2.4	98	0.00	8.11- 8.31
27		AR1254-D	1.057	1.033 E6	2.3	98	0.00	8.28- 8.48
28		AR1254-E	796.120	783.212 E3	1.6	98	0.00	8.59- 8.79
29		AR1254-F	412.718	407.356 E3	1.3	99	0.00	9.08- 9.28
30		AR1254-G	863.096	864.811 E3	-0.2	100	0.00	9.37- 9.57
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				
42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140989.D

48		AR1260-C				----------NA----------			
49		AR1260-D				----------NA----------			
50		AR1260-E				----------NA----------			
51	S	Decachlorobiphenyl	14.641	16.185	E6	-10.5	97	0.00	12.57-12.63

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3G140974.d 3PCB5160.M Wed Apr 24 11:02:10 2024 RPT1

10.10.12 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140990.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\3G5160\3G140990.d\ECD1A.CH Vial: 22
Signal #2 : C:\msdchem\1\data\3G5160\3G140990.d\ECD2B.CH
Acq On : 23 Apr 2024 20:44 pm Operator: mahalial
Sample : icv5160-1000 (ar1232) Inst : GC3G
Misc : op53949,g3g5160,15.0,,,1,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : Wed Apr 24 07:06:11 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.900	9.202 E6	-16.5	112	0.00	3.44- 3.50
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A	142.648	157.384 E3	-10.3	110	0.00	3.78- 3.98
8		AR1232-B	103.876	115.340 E3	-11.0	111	0.00	4.23- 4.43
9		AR1232-C	221.142	240.413 E3	-8.7	109	0.00	4.83- 5.03
10		AR1232-D	94.644	103.810 E3	-9.7	110	0.00	5.00- 5.20
11		AR1232-E	93.317	100.853 E3	-8.1	108	0.00	5.54- 5.74
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140990.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	6.655	8.100	E6 -21.7#	110	0.02	10.95-11.02	
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	18.161	20.661	E6 -13.8	108	0.00	4.05- 4.11	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A	322.760	362.817	E3 -12.4	112	0.00	4.66- 4.86	
8		AR1232-B	266.552	298.841	E3 -12.1	112	0.00	5.22- 5.42	
9		AR1232-C	550.620	632.444	E3 -14.9	115	0.00	5.88- 6.08	
10		AR1232-D	218.926	251.602	E3 -14.9	115	0.00	6.07- 6.27	
11		AR1232-E	153.914	176.812	E3 -14.9	115	0.00	6.74- 6.94	
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A			----------NA----------				
37		AR1268-B			----------NA----------				
38		AR1268-C			----------NA----------				
39		AR1268-D			----------NA----------				
40		AR1268-E			----------NA----------				
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140990.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	14.641	18.746 E6	-28.0#	113	0.00	12.57-12.63

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3G140974.d 3PCB5160.M Wed Apr 24 11:02:12 2024 RPT1

10.10.13
10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140991.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\3G5160\3G140991.d\ECD1A.CH Vial: 23
Signal #2 : C:\msdchem\1\data\3G5160\3G140991.d\ECD2B.CH
Acq On : 23 Apr 2024 21:01 pm Operator: mahalial
Sample : icv5160-1000 (ar1262) Inst : GC3G
Misc : op53949,g3g5160,15.0,,,1,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : Wed Apr 24 07:06:11 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.900	7.855 E6	0.6	95	0.00	3.44- 3.50
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A	346.601	314.404 E3	9.3	91	0.00	7.60- 7.80
32		AR1262-B	439.628	396.354 E3	9.8	90	0.00	8.15- 8.35
33		AR1262-C	417.854	377.608 E3	9.6	90	0.00	8.49- 8.69
34		AR1262-D	947.367	867.997 E3	8.4	92	0.00	8.93- 9.13
35		AR1262-E	1.030	0.946 E6	8.2	92	0.00	9.38- 9.58
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140991.D

42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				
48		AR1260-C		----------NA----------				
49		AR1260-D		----------NA----------				
50		AR1260-E		----------NA----------				
51	S	Decachlorobiphenyl	6.655	7.438 E6	-11.8	101	0.02	10.95-11.02
*****		Signal #2 *****						
1	S	Tetrachloro-m-xylene	18.161	18.787 E6	-3.4	98	0.00	4.05- 4.11
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A	791.419	758.245 E3	4.2	96	0.00	8.84- 9.04
32		AR1262-B	1.187	1.161 E6	2.2	98	0.00	9.49- 9.69
33		AR1262-C	1.014	0.976 E6	3.7	96	0.00	9.93-10.13
34		AR1262-D	2.317	2.279 E6	1.6	98	0.00	10.27-10.47
35		AR1262-E	2.664	2.600 E6	2.4	98	0.00	10.79-10.99
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				
42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140991.D

48		AR1260-C				----------NA----------			
49		AR1260-D				----------NA----------			
50		AR1260-E				----------NA----------			
51	S	Decachlorobiphenyl	14.641	16.781	E6	-14.6	101	0.00	12.57-12.63

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3G140974.d 3PCB5160.M Wed Apr 24 11:02:14 2024 RPT1

10.10.14 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140992.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\3G5160\3G140992.d\ECD1A.CH Vial: 24
Signal #2 : C:\msdchem\1\data\3G5160\3G140992.d\ECD2B.CH
Acq On : 23 Apr 2024 21:18 pm Operator: mahalial
Sample : icv5160-1000 (ar1242) Inst : GC3G
Misc : op53949,g3g5160,15.0,,,1,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : Wed Apr 24 07:06:11 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.900	8.094 E6	-2.5	98	0.00	3.44- 3.50
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A	195.700	214.627 E3	-9.7	110	0.00	4.23- 4.43
13		AR1242-B	399.597	436.048 E3	-9.1	109	0.00	4.83- 5.03
14		AR1242-C	170.519	183.591 E3	-7.7	108	0.00	5.00- 5.20
15		AR1242-D	185.208	192.177 E3	-3.8	104	0.00	5.54- 5.74
16		AR1242-E	147.553	150.138 E3	-1.8	102	0.00	6.16- 6.36
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140992.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	6.655	7.320 E6	-10.0	99	0.02	10.95-11.02	
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	18.161	18.649 E6	-2.7	97	0.00	4.05- 4.11	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A	451.561	503.329 E3	-11.5	111	0.00	5.22- 5.43	
13		AR1242-B	1.009	1.132 E6	-12.2	112	0.00	5.88- 6.08	
14		AR1242-C	394.580	442.820 E3	-12.2	112	0.00	6.07- 6.27	
15		AR1242-D	313.664	343.795 E3	-9.6	110	0.00	6.74- 6.94	
16		AR1242-E	386.834	415.044 E3	-7.3	107	0.00	7.35- 7.55	
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A			----------NA----------				
37		AR1268-B			----------NA----------				
38		AR1268-C			----------NA----------				
39		AR1268-D			----------NA----------				
40		AR1268-E			----------NA----------				
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140992.D

48		AR1260-C				----------NA----------			
49		AR1260-D				----------NA----------			
50		AR1260-E				----------NA----------			
51	S	Decachlorobiphenyl	14.641	16.559	E6	-13.1	99	0.00	12.57-12.63

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3G140974.d 3PCB5160.M Wed Apr 24 11:02:16 2024 RPT1

10.10.15 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140993.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\3G5160\3G140993.d\ECD1A.CH Vial: 25
Signal #2 : C:\msdchem\1\data\3G5160\3G140993.d\ECD2B.CH
Acq On : 23 Apr 2024 21:34 pm Operator: mahalial
Sample : icv5160-1000 (ar1268) Inst : GC3G
Misc : op53949,g3g5160,15.0,,,1,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : Wed Apr 24 07:06:11 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.900	8.488 E6	-7.4	103	0.00	3.44- 3.50
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A	890.739	912.978 E3	-2.5	102	0.00	9.38- 9.58
37		AR1268-B	993.606	1026.950 E3	-3.4	103	0.00	9.43- 9.63
38		AR1268-C	791.719	821.655 E3	-3.8	104	0.00	9.71- 9.91
39		AR1268-D	329.923	340.091 E3	-3.1	103	0.00	10.21-10.41
40		AR1268-E	2.566	2.697 E6	-5.1	105	0.00	10.61-10.81
41		AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140993.D

42		AR1016-B		----------NA----------					
43		AR1016-C		----------NA----------					
44		AR1016-D		----------NA----------					
45		AR1016-E		----------NA----------					
46		AR1260-A		----------NA----------					
47		AR1260-B		----------NA----------					
48		AR1260-C		----------NA----------					
49		AR1260-D		----------NA----------					
50		AR1260-E		----------NA----------					
51	S	Decachlorobiphenyl	6.655	22.115	E6	-232.3#	300#	0.01	10.95-11.02
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	18.161	20.242	E6	-11.5	106	0.00	4.05- 4.11
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A	2.670	2.868	E6	-7.4	107	0.00	10.79-10.99
37		AR1268-B	2.588	2.752	E6	-6.3	106	0.00	10.86-11.06
38		AR1268-C	2.191	2.347	E6	-7.1	107	0.00	11.24-11.44
39		AR1268-D	883.026	950.131	E3	-7.6	108	0.00	11.63-11.83
40		AR1268-E	6.339	6.882	E6	-8.6	109	0.00	12.12-12.32
41		AR1016-A		----------NA----------					
42		AR1016-B		----------NA----------					
43		AR1016-C		----------NA----------					
44		AR1016-D		----------NA----------					
45		AR1016-E		----------NA----------					
46		AR1260-A		----------NA----------					
47		AR1260-B		----------NA----------					

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140993.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	14.641	49.455 E6	-237.8#	297#	0.00	12.57-12.63

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3G140974.d 3PCB5160.M Wed Apr 24 11:02:18 2024 RPT1

10.10.16 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140994.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\3G5160\3G140994.d\ECD1A.CH Vial: 26
Signal #2 : C:\msdchem\1\data\3G5160\3G140994.d\ECD2B.CH
Acq On : 23 Apr 2024 21:51 pm Operator: mahalial
Sample : icv5160-1000 (ar1248) Inst : GC3G
Misc : op53949,g3g5160,15.0,,,1,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : Wed Apr 24 07:06:11 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.900	7.869 E6	0.4	96	0.00	3.44- 3.50
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A	93.535	96.293 E3	-2.9	103	0.00	4.22- 4.42
18		AR1248-B	251.972	257.788 E3	-2.3	102	0.00	4.83- 5.03
19		AR1248-C	145.072	146.690 E3	-1.1	101	0.00	5.24- 5.44
20		AR1248-D	209.048	210.512 E3	-0.7	101	0.00	5.54- 5.74
21		AR1248-E	147.115	149.508 E3	-1.6	102	0.00	5.66- 5.86
22		AR1248-F	243.964	246.191 E3	-0.9	101	0.00	6.12- 6.31
23		AR1248-G	209.281	213.361 E3	-1.9	102	0.00	6.42- 6.62
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140994.D

42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				
48		AR1260-C		----------NA----------				
49		AR1260-D		----------NA----------				
50		AR1260-E		----------NA----------				
51	S	Decachlorobiphenyl	6.655	7.326 E6	-10.1	99	0.02	10.95-11.02
*****		Signal #2 *****						
1	S	Tetrachloro-m-xylene	18.161	18.699 E6	-3.0	98	0.00	4.05- 4.11
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A	222.501	231.830 E3	-4.2	104	0.00	5.22- 5.42
18		AR1248-B	645.727	670.867 E3	-3.9	104	0.00	5.88- 6.08
19		AR1248-C	376.662	392.252 E3	-4.1	104	0.00	6.35- 6.55
20		AR1248-D	507.836	532.788 E3	-4.9	105	0.00	6.74- 6.94
21		AR1248-E	490.367	515.702 E3	-5.2	105	0.00	6.92- 7.12
22		AR1248-F	697.588	732.308 E3	-5.0	105	0.00	7.35- 7.55
23		AR1248-G	684.958	721.345 E3	-5.3	105	0.00	7.68- 7.88
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				
42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				

10.10.17
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Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5160-ICV5160
Lab FileID: 3G140994.D

48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	14.641	16.066 E6	-9.7	96	0.01	12.57-12.63	

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3G140974.d 3PCB5160.M Wed Apr 24 11:02:20 2024 RPT1

10.10.17
10

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5198-CC5160
Lab FileID: 3G141831.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\an...8\3G141831.d\ECD1A.CH Vial: 68
Signal #2 : C:\msdchem\1\data\anndg\3G5198\3G141831.d\ECD2B.CH
Acq On : 01-Jul-24, 15:01:29 Operator: mahalial
Sample : cc5160-500 Inst : GC3G
Misc : op55667,g3g5198,1000,,,5,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...G5198\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : Tue Jul 02 01:48:33 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.900	10.254 E6	-29.8#	118	0.00	3.43- 3.49
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	132.538	172.380 E3	-30.1#	119	0.00	3.85- 3.91

Continuing Calibration Summary

Job Number: JD91339 **Sample:** G3G5198-CC5160
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3G141831.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42		AR1016-B	257.349	313.773	E3	-21.9#	112	0.00	4.29- 4.35
43		AR1016-C	538.119	631.260	E3	-17.3	110	0.00	4.89- 4.95
44		AR1016-D	235.528	272.693	E3	-15.8	110	0.00	5.06- 5.12
45		AR1016-E	248.580	290.862	E3	-17.0	108	0.00	5.60- 5.67
46		AR1260-A	465.226	502.647	E3	-8.0	101	0.00	7.66- 7.72
47		AR1260-B	288.893	318.890	E3	-10.4	102	0.00	8.21- 8.27
48		AR1260-C	314.897	343.676	E3	-9.1	101	0.00	8.55- 8.62
49		AR1260-D	751.304	824.936	E3	-9.8	100	0.00	8.99- 9.05
50		AR1260-E	760.628	825.668	E3	-8.6	101	0.00	9.38- 9.44
51	S	Decachlorobiphenyl	6.655	8.042	E6	-20.8#	104	0.00	10.93-11.00
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	18.161	26.385	E6	-45.3#	130	0.00	4.02- 4.08
2		AR1221-A	----------NA----------						
3		AR1221-B	----------NA----------						
4		AR1221-C	----------NA----------						
5		AR1221-D	----------NA----------						
6		AR1221-E	----------NA----------						
7		AR1232-A	----------NA----------						
8		AR1232-B	----------NA----------						
9		AR1232-C	----------NA----------						
10		AR1232-D	----------NA----------						
11		AR1232-E	----------NA----------						
12		AR1242-A	----------NA----------						
13		AR1242-B	----------NA----------						
14		AR1242-C	----------NA----------						
15		AR1242-D	----------NA----------						
16		AR1242-E	----------NA----------						
17		AR1248-A	----------NA----------						
18		AR1248-B	----------NA----------						
19		AR1248-C	----------NA----------						
20		AR1248-D	----------NA----------						
21		AR1248-E	----------NA----------						
22		AR1248-F	----------NA----------						
23		AR1248-G	----------NA----------						
24		AR1254-A	----------NA----------						
25		AR1254-B	----------NA----------						
26		AR1254-C	----------NA----------						
27		AR1254-D	----------NA----------						
28		AR1254-E	----------NA----------						
29		AR1254-F	----------NA----------						
30		AR1254-G	----------NA----------						
31		AR1262-A	----------NA----------						
32		AR1262-B	----------NA----------						
33		AR1262-C	----------NA----------						
34		AR1262-D	----------NA----------						
35		AR1262-E	----------NA----------						
36		AR1268-A	----------NA----------						
37		AR1268-B	----------NA----------						
38		AR1268-C	----------NA----------						
39		AR1268-D	----------NA----------						
40		AR1268-E	----------NA----------						
41		AR1016-A	305.459	429.647	E3	-40.7#	127	0.00	4.70- 4.76
42		AR1016-B	601.393	822.529	E3	-36.8#	123	0.00	5.27- 5.33
43		AR1016-C	1.365	1.868	E6	-36.8#	126	0.00	5.93- 5.99
44		AR1016-D	521.521	726.176	E3	-39.2#	126	0.00	6.12- 6.18
45		AR1016-E	423.325	579.107	E3	-36.8#	126	0.00	6.79- 6.85
46		AR1260-A	0.977	1.226	E6	-25.5#	117	0.00	8.88- 8.94
47		AR1260-B	800.981	1004.955	E3	-25.5#	116	0.00	9.54- 9.60

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5198-CC5160
Lab FileID: 3G141831.D

48		AR1260-C	836.230	1005.679	E3	-20.3#	112	0.00	9.97-10.03
49		AR1260-D	1.966	2.389	E6	-21.5#	113	0.00	10.32-10.38
50		AR1260-E	1.899	2.325	E6	-22.4#	111	0.00	10.87-10.93
51	S	Decachlorobiphenyl	14.641	17.563	E6	-20.0	100	0.00	12.55-12.61

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3G141831.d 3PCB5160.M Tue Jul 02 01:51:19 2024

10.10.18
10

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5198-CC5160
Lab FileID: 3G141853.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\an...8\3G141853.d\ECD1A.CH Vial: 86
Signal #2 : C:\msdchem\1\data\anndg\3G5198\3G141853.d\ECD2B.CH
Acq On : 01-Jul-24, 21:07:09 Operator: mahalial
Sample : cc5160-1000 Inst : GC3G
Misc : op55746,g3g5198,250,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...G5198\3PCB5160.M (ChemStation Integrator)
Title :
Last Update : Tue Jul 02 01:48:33 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	7.900	12.866 E6	-62.9#	156#	0.00	3.42- 3.48
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	132.538	202.354 E3	-52.7#	157#	0.00	3.84- 3.90

Continuing Calibration Summary

Job Number: JD91339 **Sample:** G3G5198-CC5160
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3G141853.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42		AR1016-B	257.349	377.509	E3	-46.7# 149	0.00	4.28- 4.34
43		AR1016-C	538.119	796.047	E3	-47.9# 148	0.00	4.89- 4.95
44		AR1016-D	235.528	334.867	E3	-42.2# 147	0.00	5.06- 5.12
45		AR1016-E	248.580	342.204	E3	-37.7# 138	0.00	5.59- 5.66
46		AR1260-A	465.226	589.598	E3	-26.7# 123	0.00	7.65- 7.71
47		AR1260-B	288.893	406.927	E3	-40.9# 137	0.00	8.20- 8.26
48		AR1260-C	314.897	407.457	E3	-29.4# 124	0.00	8.54- 8.61
49		AR1260-D	751.304	1148.045	E3	-52.8# 144	0.00	8.99- 9.05
50		AR1260-E	760.628	1038.888	E3	-36.6# 131	0.04	9.43- 9.49
51	S	Decachlorobiphenyl	6.655	10.578	E6	-58.9# 144	0.00	10.93-11.00
*****		Signal #2 *****						
1	S	Tetrachloro-m-xylene	18.161	30.956	E6	-70.5# 162#	0.00	4.03- 4.09
2		AR1221-A	----------NA----------					
3		AR1221-B	----------NA----------					
4		AR1221-C	----------NA----------					
5		AR1221-D	----------NA----------					
6		AR1221-E	----------NA----------					
7		AR1232-A	----------NA----------					
8		AR1232-B	----------NA----------					
9		AR1232-C	----------NA----------					
10		AR1232-D	----------NA----------					
11		AR1232-E	----------NA----------					
12		AR1242-A	----------NA----------					
13		AR1242-B	----------NA----------					
14		AR1242-C	----------NA----------					
15		AR1242-D	----------NA----------					
16		AR1242-E	----------NA----------					
17		AR1248-A	----------NA----------					
18		AR1248-B	----------NA----------					
19		AR1248-C	----------NA----------					
20		AR1248-D	----------NA----------					
21		AR1248-E	----------NA----------					
22		AR1248-F	----------NA----------					
23		AR1248-G	----------NA----------					
24		AR1254-A	----------NA----------					
25		AR1254-B	----------NA----------					
26		AR1254-C	----------NA----------					
27		AR1254-D	----------NA----------					
28		AR1254-E	----------NA----------					
29		AR1254-F	----------NA----------					
30		AR1254-G	----------NA----------					
31		AR1262-A	----------NA----------					
32		AR1262-B	----------NA----------					
33		AR1262-C	----------NA----------					
34		AR1262-D	----------NA----------					
35		AR1262-E	----------NA----------					
36		AR1268-A	----------NA----------					
37		AR1268-B	----------NA----------					
38		AR1268-C	----------NA----------					
39		AR1268-D	----------NA----------					
40		AR1268-E	----------NA----------					
41		AR1016-A	305.459	472.859	E3	-54.8# 157#	0.00	4.71- 4.77
42		AR1016-B	601.393	913.158	E3	-51.8# 152#	0.00	5.28- 5.34
43		AR1016-C	1.365	2.098	E6	-53.7# 154#	0.00	5.93- 5.99
44		AR1016-D	521.521	826.007	E3	-58.4# 155#	0.00	6.12- 6.18
45		AR1016-E	423.325	615.246	E3	-45.3# 144	0.00	6.79- 6.85
46		AR1260-A	0.977	1.416	E6	-44.9# 143	0.00	8.89- 8.95
47		AR1260-B	800.981	1090.057	E3	-36.1# 134	0.00	9.54- 9.60

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G3G5198-CC5160
Lab FileID: 3G141853.D

48		AR1260-C	836.230	1127.642	E3	-34.8#	134	0.00	9.98-10.04
49		AR1260-D	1.966	2.740	E6	-39.4#	134	0.00	10.32-10.38
50		AR1260-E	1.899	2.722	E6	-43.3#	138	-0.02	10.85-10.91
51	S	Decachlorobiphenyl	14.641	23.060	E6	-57.5#	138	0.00	12.55-12.61

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3G141536.D 3PCB5160.M Tue Jul 02 02:24:26 2024

10.10.19 10

Initial Calibration Summary

Job Number: JD91339 **Sample:** G4G4352-ICC4352
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 4G9738058.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Response Factor Report GC4G

Method : C:\msdchem\1\methods\4pstlvi4352a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Fri Jun 07 09:58:22 2024
Response via : Initial Calibration

Calibration Files
2 =4g9738055.d 5 =4g9738056.d 10 =4g9738057.d 25 =4g9738058.d
50 =4g9738059.d 100 =4g9738061.d 1 =4g9738054.d 75 =4g9738060.d

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.927	0.844	0.825	0.847	0.837	0.855		0.843	0.854	3.92
3) hexachlorobe	1.186	1.063	1.033	1.043	1.027	1.048	1.299	1.036	1.092	9.02
4) alpha-BHC	1.460	1.487	1.550	1.682	1.747	1.817	1.510	1.777	1.629	8.77
5) gamma-BHC	1.287	1.319	1.372	1.490	1.536	1.596	1.324	1.558	1.435	8.57
6) Heptachlor	1.278	1.234	1.265	1.362	1.404	1.443	1.338	1.419	1.343	5.78
7) beta-BHC	0.630	0.563	0.563	0.582	0.558	0.576	0.750	0.572	0.599	10.87
8) delta-BHC	1.426	1.329	1.384	1.519	1.521	1.615	1.677	1.588	1.508	7.96
9) Aldrin	1.273	1.291	1.330	1.426	1.453	1.486	1.300	1.460	1.377	6.35
10) alachlor		0.166	0.160	0.155	0.142	0.139		0.140	0.150	7.76
11) Heptachlor E	1.199	1.154	1.142	1.262	1.193	1.271	1.265	1.258	1.218	4.33
12) gamma-Chlord	1.186	1.192	1.227	1.305	1.352	1.386	1.366	1.363	1.297	6.41
13) alpha-Chlord	1.233	1.184	1.210	1.277	1.305	1.335	1.322	1.316	1.273	4.46
14) Endosulfan I	1.198	1.136	1.153	1.206	1.203	1.214	1.300	1.205	1.202	4.06
15) 4,4'-DDE	1.105	1.097	1.138	1.231	1.271	1.303	1.180	1.279	1.200	6.81
16) Dieldrin	1.268	1.208	1.243	1.322	1.334	1.353	1.321	1.338	1.298	4.02
17) Endrin	1.091	1.046	1.075	1.141	1.156	1.172	1.147	1.163	1.124	4.16
18) 4,4'-DDD	0.894	0.862	0.892	0.963	0.994	1.024	0.966	1.003	0.950	6.28
19) Endosulfan I	1.136	1.049	1.057	1.108	1.099	1.114	1.262	1.103	1.116	5.87
20) 4,4'-DDT	0.896	0.818	0.834	0.896	0.947	1.000	1.005	0.970	0.921	7.77
21) Endrin Aldeh	1.205	0.826	0.804	0.778	0.799	0.774	1.182	0.778	0.893	20.84
----- Quadratic regression ----- Coefficient = 0.9992										
Response Ratio = 0.01038 + 0.77053 *A + 0.00065 *A^2										
22) Endosulfan S	1.114	0.953	0.950	0.985	0.976	1.002	1.269	0.990	1.030	10.63
23) Methoxychlor	0.483	0.436	0.424	0.412	0.426	0.442	0.532	0.439	0.449	8.85
24) Mirex	0.972	0.818	0.787	0.785	0.771	0.782	1.069	0.772	0.844	13.33
25) Endrin Keton	1.268	1.172	1.166	1.204	1.166	1.198	1.422	1.172	1.221	7.22
26) Decachlorobi	1.144	0.960	0.897	0.883	0.796	0.843		0.834	0.908	12.81
27) I 1-bromo-2-nitrobenzen	ISTD									
28) Toxaphene{A}				0.001					0.001	0.00
29) Toxaphene{B}				0.009					0.009	0.00
30) Toxaphene{C}				0.012					0.012	0.00
31) Toxaphene{D}				0.021					0.021	0.00
32) Toxaphene{E}				0.028					0.028	0.00
33) I 1-bromo-2-nitrobenzen	ISTD									
34) Chlordane {A				0.061					0.061	0.00
35) Chlordane {B				0.037					0.037	0.00
36) Chlordane {C				0.142					0.142	0.00
37) Chlordane {D				0.219					0.219	0.00
38) Chlordane {E				0.031					0.031	0.00

Signal #2

Initial Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G4G4352-ICC4352
Lab FileID: 4G9738058.D

```
 1) I   1-bromo-2-nitrobenzen ----------------ISTD--------------------
 2) Tetrachloro- 1.232 1.047 0.987 0.970 0.933 0.906       0.918 0.999  11.35
 3) hexachlorobe 1.332 1.155 1.105 1.046 1.018 0.996 1.511 1.007 1.146  16.07
 4) alpha-BHC    1.803 1.674 1.645 1.666 1.700 1.727 2.023 1.704 1.743   7.06
 5) gamma-BHC    1.604 1.479 1.436 1.457 1.462 1.474 1.747 1.467 1.516   7.03
 6) Heptachlor   1.603 1.354 1.289 1.269 1.254 1.227 1.845 1.239 1.385  16.05
 7) beta-BHC     0.784 0.672 0.620 0.590 0.552 0.554 0.951 0.558 0.660  21.43
         ----- Quadratic regression -----  Coefficient =  0.9998
              Response Ratio = 0.01144 + 0.55047 *A + -0.00113 *A^2

 8) delta-BHC    1.593 1.390 1.313 1.463 1.307 1.449 1.831 1.456 1.475  11.56
 9) Aldrin       1.520 1.324 1.267 1.249 1.231 1.209 1.705 1.222 1.341  13.29
10) alachlor           0.203 0.184 0.160 0.135 0.125       0.131 0.156  20.48
         ----- Quadratic regression -----  Coefficient =  0.9987
              Response Ratio = 0.00662 + 0.14711 *A + -0.01347 *A^2

11) Heptachlor E 1.450 1.239 1.175 1.128 1.090 1.055 1.649 1.075 1.233  17.12
12) gamma-Chlord 1.367 1.188 1.134 1.108 1.097 1.086 1.526 1.089 1.199  13.48
13) alpha-Chlord 1.303 1.101 1.020 1.059 0.946 1.010 1.462 1.017 1.115  15.80
14) Endosulfan I 1.582 1.216 1.118 1.048 1.006 0.974 2.032 0.986 1.245  30.14
         ----- Quadratic regression -----  Coefficient =  1.0000
              Response Ratio = 0.02232 + 1.00738 *A + -0.02270 *A^2

15) 4,4'-DDE     1.370 1.164 1.106 1.080 1.066 1.047 1.599 1.051 1.186  16.69
16) Dieldrin     1.437 1.214 1.161 1.127 1.101 1.078 1.642 1.087 1.231  16.49
17) Endrin       1.277 1.041 0.996 0.960 0.935 0.914 1.395 0.928 1.056  17.08
18) 4,4'-DDD     1.104 0.961 0.894 0.867 0.867 0.857 1.314 0.857 0.965  17.04
19) Endosulfan I 1.207 1.042 0.971 0.928 0.906 0.887 1.396 0.893 1.029  17.76
20) 4,4'-DDT     1.126 0.939 0.882 0.857 0.860 0.861 1.341 0.855 0.965  18.40
21) Endrin Aldeh 0.967 0.772 0.765 0.681 0.611 0.633 1.167 0.646 0.780  24.86
         ----- Quadratic regression -----  Coefficient =  0.9976
              Response Ratio = 0.00980 + 0.69230 *A + -0.04140 *A^2

22) Endosulfan S 1.247 1.030 0.961 0.913 0.869 0.865 1.521 0.870 1.034  22.68
         ----- Quadratic regression -----  Coefficient =  0.9999
              Response Ratio = 0.01670 + 0.86480 *A + -0.00453 *A^2

23) Methoxychlor 0.636 0.504 0.455 0.429 0.378 0.388 0.737 0.390 0.490  26.81
         ----- Quadratic regression -----  Coefficient =  0.9961
              Response Ratio = 0.00640 + 0.43751 *A + -0.03466 *A^2

24) Mirex        0.866 0.698 0.639 0.575 0.537 0.530 1.057 0.529 0.679  28.16
         ----- Quadratic regression -----  Coefficient =  0.9983
              Response Ratio = 0.00957 + 0.59659 *A + -0.04556 *A^2

25) Endrin Keton 1.221 1.028 0.953 0.909 0.874 0.870 1.461 0.870 1.023  20.82
         ----- Quadratic regression -----  Coefficient =  1.0000
              Response Ratio = 0.01586 + 0.86350 *A + -0.00147 *A^2

26) Decachlorobi 0.765 0.605 0.554 0.508 0.480 0.479       0.476 0.552  19.10

27) I   1-bromo-2-nitrobenzen ----------------ISTD--------------------
28) Toxaphene{A}                          0.006                  0.006   0.00
29) Toxaphene{B}                          0.008                  0.008   0.00
30) Toxaphene{C}                          0.019                  0.019   0.00
31) Toxaphene{D}                          0.008                  0.008   0.00
32) Toxaphene{E}                          0.026                  0.026   0.00

33) I   1-bromo-2-nitrobenzen ----------------ISTD--------------------
```

Initial Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G4G4352-ICC4352
Lab FileID: 4G9738058.D

34) Chlordane {A	0.059	0.059	0.00
35) Chlordane {B	0.033	0.033	0.00
36) Chlordane {C	0.113	0.113	0.00
37) Chlordane {D	0.179	0.179	0.00
38) Chlordane {E	0.029	0.029	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

4pstlvi4352a.M Fri Jun 07 10:10:16 2024

10.10.20 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G4G4352-ICV4352
Lab FileID: 4G9738062.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\g4...\4g9738062.d\ECD1A.ch Vial: 13
Signal #2 : C:\msdchem\1\data\g4g4352\4g9738062.d\ECD2B.ch
Acq On : 6 Jun 2024 10:02 pm Operator: tilakp
Sample : icv4352-2.5 (pest mix) Inst : GC4G
Misc : op53967,g4g4352,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\methods\4pstlvi4352a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Fri Jun 07 09:58:22 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	132	0.00	5.31- 6.31
2	SAB	Tetrachloro-m-xylene	0.854	0.770	9.8	120	0.00	6.48- 6.54
3		hexachlorobenzene	1.092	0.924	15.4	117	0.00	6.84- 6.90
4	A	alpha-BHC	1.629	1.459	10.4	114	0.00	7.00- 7.06
5	MA	gamma-BHC	1.435	1.279	10.9	113	0.00	7.31- 7.37
6	MA	Heptachlor	1.343	1.198	10.8	116	0.00	7.83- 7.89
7	B	beta-BHC	0.599	0.528	11.9	120	0.00	7.39- 7.45
8	B	delta-BHC	1.508	1.399	7.2	121	0.00	7.58- 7.64
9	MB	Aldrin	1.377	1.249	9.3	116	0.00	8.17- 8.23
10		alachlor	0.150	0.132	12.0	113	0.00	8.34- 8.40
11	B	Heptachlor Epoxide	1.218	1.101	9.6	115	0.00	8.91- 8.97
12	B	gamma-Chlordane	1.297	1.121	13.6	113	0.00	9.08- 9.14
13	B	alpha-Chlordane	1.273	1.075	15.6	111	0.00	9.25- 9.31
14	A	Endosulfan I	1.202	1.038	13.6	114	0.00	9.44- 9.50
15	B	4,4'-DDE	1.200	1.063	11.4	114	0.00	9.36- 9.42
16	MA	Dieldrin	1.298	1.153	11.2	115	0.00	9.76- 9.82
17	MA	Endrin	1.124	1.007	10.4	116	0.00	10.09-10.15
18	A	4,4'-DDD	0.950	0.850	10.5	116	0.00	10.21-10.27
19	B	Endosulfan II	1.116	0.962	13.8	115	0.00	10.42-10.48
20	MA	4,4'-DDT	0.921	0.800	13.1	118	0.00	10.63-10.69
			True	Calc.	% Drift			
21	B	Endrin Aldehyde	2.500	2.582	-3.3	138	0.00	11.05-11.11
			AvgRF	CCRF	% Dev			
22	B	Endosulfan Sulfate	1.030	0.899	12.7	120	0.00	11.75-11.81
23	A	Methoxychlor	0.449	0.372	17.1	119	0.00	11.41-11.47
24		Mirex	0.844	0.721	14.6	121	0.00	11.57-11.63
25	B	Endrin Ketone	1.221	1.046	14.3	115	0.00	12.18-12.24
26	SA	Decachlorobiphenyl	0.908	0.775	14.6	116	0.00	13.96-14.02
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	5.31- 6.31
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	5.31- 6.31
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				

10.10.21 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G4G4352-ICV4352
Lab FileID: 4G9738062.D

36		Chlordane {C}			----------NA----------				
37		Chlordane {D}			----------NA----------				
38		Chlordane {E}			----------NA----------				
*****		Signal #2 *****							
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	127	0.00	5.60- 6.60	
2	SAB	Tetrachloro-m-xylene	0.999	0.898	10.1	118	0.00	6.99- 7.05	
3		hexachlorobenzene	1.146	0.975	14.9	119	0.00	7.53- 7.59	
4	A	alpha-BHC	1.743	1.494	14.3	114	0.00	7.70- 7.76	
5	MA	gamma-BHC	1.516	1.301	14.2	114	0.00	8.16- 8.22	
6	MA	Heptachlor	1.385	1.145	17.3	115	0.00	8.76- 8.82	
		---------- True Calc. % Drift ----------							
7	B	beta-BHC	2.500	2.427	2.9	120	0.00	8.24- 8.30	
		---------- AvgRF CCRF % Dev ----------							
8	B	delta-BHC	1.475	1.387	6.0	121	0.00	8.66- 8.72	
9	MB	Aldrin	1.341	1.138	15.1	116	0.00	9.23- 9.29	
		---------- True Calc. % Drift ----------							
10		alachlor	2.500	2.491	0.4	122	0.00	9.03- 9.09	
		---------- AvgRF CCRF % Dev ----------							
11	B	Heptachlor Epoxide	1.233	1.039	15.7	117	0.00	10.07-10.13	
12	B	gamma-Chlordane	1.199	1.011	15.7	116	0.00	10.36-10.42	
13	B	alpha-Chlordane	1.115	0.909	18.5	109	0.00	10.59-10.65	
		---------- True Calc. % Drift ----------							
14	A	Endosulfan I	2.500	2.199	12.0	112	0.00	10.69-10.75	
		---------- AvgRF CCRF % Dev ----------							
15	B	4,4'-DDE	1.186	0.966	18.5	114	0.00	10.85-10.91	
16	MA	Dieldrin	1.231	1.041	15.4	118	0.00	11.13-11.19	
17	MA	Endrin	1.056	0.877	17.0	116	0.00	11.64-11.70	
18	A	4,4'-DDD	0.965	0.816	15.4	120	0.00	11.81-11.87	
19	B	Endosulfan II	1.029	0.851	17.3	117	0.00	11.99-12.05	
20	MA	4,4'-DDT	0.965	0.783	18.9	116	0.00	12.35-12.41	
		---------- True Calc. % Drift ----------							
21	B	Endrin Aldehyde	2.500	2.699	-8.0	139	0.00	12.56-12.62	
22	B	Endosulfan Sulfate	2.500	2.396	4.2	120	0.00	13.04-13.10	
23	A	Methoxychlor	2.500	2.227	10.9	115	0.00	13.59-13.65	
24		Mirex	2.500	2.284	8.6	121	0.00	13.93-13.99	
25	B	Endrin Ketone	2.500	2.272	9.1	114	0.00	13.98-14.04	
		---------- AvgRF CCRF % Dev ----------							
26	SA	Decachlorobiphenyl	0.552	0.463	16.1	116	0.00	15.59-15.65	
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	5.60- 6.60	
28	L8	Toxaphene{A}			----------NA----------				
29	L8	Toxaphene{B}			----------NA----------				
30	L8	Toxaphene{C}			----------NA----------				
31	L8	Toxaphene{D}			----------NA----------				
32	L8	Toxaphene{E}			----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	5.60- 6.60	
34		Chlordane {A}			----------NA----------				
35		Chlordane {B}			----------NA----------				

10.10.21 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G4G4352-ICV4352
Lab FileID: 4G9738062.D

```
36     Chlordane {C}                        ----------NA----------
37     Chlordane {D}                        ----------NA----------
38     Chlordane {E}                        ----------NA----------
--------------------------------------------------------------------------------
--------------------------------------------------------------------------------

   (#) = Out of Range               SPCC's out = 0  CCC's out = 0
    4g9738058.d 4pstlvi4352a.M       Fri Jun 07 10:07:42 2024
```

Initial Calibration Verification

Job Number: JD91339 **Sample:** G4G4352-ICV4352
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 4G9738063.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\g4...\4g9738063.d\ECD1A.ch Vial: 14
Signal #2 : C:\msdchem\1\data\g4g4352\4g9738063.d\ECD2B.ch
Acq On : 6 Jun 2024 10:25 pm Operator: tilakp
Sample : icv4352-50 (chlordane) Inst : GC4G
Misc : op53967,g4g4352,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\methods\4pstlvi4352a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Fri Jun 07 09:58:22 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	86	0.00	5.31- 6.31
2	SAB	Tetrachloro-m-xylene	0.854	0.799	6.4	82	0.00	6.48- 6.54
3		hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
		---------- True	Calc.	% Drift ----------				
21	B	Endrin Aldehyde		----------NA----------				
		---------- AvgRF	CCRF	% Dev ----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	0.908	0.783	13.8	84	0.00	13.96-14.02
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	5.31- 6.31
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.00	5.31- 6.31
34		Chlordane {A}	0.061	0.063	-3.3	97	0.00	7.76- 7.96
35		Chlordane {B}	0.037	0.038	-2.7	95	0.00	8.26- 8.46

10.10.22
10

Initial Calibration Verification

Job Number: JD91339 **Sample:** G4G4352-ICV4352
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 4G9738063.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

36		Chlordane {C}	0.142	0.145	-2.1	95	0.00	9.01- 9.21
37		Chlordane {D}	0.219	0.227	-3.7	96	0.00	9.18- 9.38
38		Chlordane {E}	0.031	0.033	-6.5	99	0.00	10.25-10.45
*****		Signal #2 *****						
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	86	0.00	5.60- 6.60
2	SAB	Tetrachloro-m-xylene	0.999	0.891	10.8	82	0.00	6.99- 7.05
3		hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
		---------- True Calc. % Drift ----------						
7	B	beta-BHC		----------NA----------				
		---------- AvgRF CCRF % Dev ----------						
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
		---------- True Calc. % Drift ----------						
10		alachlor		----------NA----------				
		---------- AvgRF CCRF % Dev ----------						
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
		---------- True Calc. % Drift ----------						
14	A	Endosulfan I		----------NA----------				
		---------- AvgRF CCRF % Dev ----------						
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
		---------- True Calc. % Drift ----------						
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
		---------- AvgRF CCRF % Dev ----------						
26	SA	Decachlorobiphenyl	0.552	0.460	16.7	82	0.00	15.59-15.65
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	5.60- 6.60
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.00	5.60- 6.60
34		Chlordane {A}	0.059	0.060	-1.7	95	0.00	8.69- 8.89
35		Chlordane {B}	0.033	0.034	-3.0	97	0.00	9.36- 9.56

10.10.22 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G4G4352-ICV4352
Lab FileID: 4G9738063.D

36	Chlordane {C}	0.113	0.117	-3.5	96	0.00	10.29-10.49
37	Chlordane {D}	0.179	0.186	-3.9	97	0.00	10.52-10.72
38	Chlordane {E}	0.029	0.030	-3.4	96	0.00	12.00-12.20

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g9738059.d 4pstlvi4352a.M Fri Jun 07 10:08:30 2024

10.10.22
10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G4G4352-ICV4352
Lab FileID: 4G9738064.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\g4...\4g9738064.d\ECD1A.ch Vial: 15
Signal #2 : C:\msdchem\1\data\g4g4352\4g9738064.d\ECD2B.ch
Acq On : 6 Jun 2024 10:47 pm Operator: tilakp
Sample : icv4352-50 (toxaphene) Inst : GC4G
Misc : op53967,g4g4352,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\methods\4pstlvi4352a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Fri Jun 07 09:58:22 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	83	0.00	5.31- 6.31
2	SAB	Tetrachloro-m-xylene	0.854	0.845	1.1	84	0.00	6.48- 6.54
3		hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
		---------- True Calc. % Drift ----------						
21	B	Endrin Aldehyde		----------NA----------				
		---------- AvgRF CCRF % Dev ----------						
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	0.908	0.814	10.4	85	0.00	13.96-14.02
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	96	0.00	5.31- 6.31
28	L8	Toxaphene{A}	0.001	0.001	0.0	126	-0.06	8.10- 8.30
29	L8	Toxaphene{B}	0.009	0.013	-44.4#	129	0.00	10.85-11.05
30	L8	Toxaphene{C}	0.012	0.013	-8.3	109	0.00	11.18-11.38
31	L8	Toxaphene{D}	0.021	0.020	4.8	90	0.00	11.35-11.55
32	L8	Toxaphene{E}	0.028	0.025	10.7	85	0.00	11.51-11.71
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	90	0.00	5.31- 6.31
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				

Initial Calibration Verification

Job Number: JD91339 **Sample:** G4G4352-ICV4352
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 4G9738064.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

36		Chlordane {C}			----------NA----------				
37		Chlordane {D}			----------NA----------				
38		Chlordane {E}			----------NA----------				
*****		Signal #2 *****							
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	77	0.00	5.60- 6.60	
2	SAB	Tetrachloro-m-xylene	0.999	1.007	-0.8	84	0.00	6.99- 7.05	
3		hexachlorobenzene			----------NA----------				
4	A	alpha-BHC			----------NA----------				
5	MA	gamma-BHC			----------NA----------				
6	MA	Heptachlor			----------NA----------				
		----------	True		Calc.	% Drift	----------		
7	B	beta-BHC			----------NA----------				
		----------	AvgRF		CCRF	% Dev	----------		
8	B	delta-BHC			----------NA----------				
9	MB	Aldrin			----------NA----------				
		----------	True		Calc.	% Drift	----------		
10		alachlor			----------NA----------				
		----------	AvgRF		CCRF	% Dev	----------		
11	B	Heptachlor Epoxide			----------NA----------				
12	B	gamma-Chlordane			----------NA----------				
13	B	alpha-Chlordane			----------NA----------				
		----------	True		Calc.	% Drift	----------		
14	A	Endosulfan I			----------NA----------				
		----------	AvgRF		CCRF	% Dev	----------		
15	B	4,4'-DDE			----------NA----------				
16	MA	Dieldrin			----------NA----------				
17	MA	Endrin			----------NA----------				
18	A	4,4'-DDD			----------NA----------				
19	B	Endosulfan II			----------NA----------				
20	MA	4,4'-DDT			----------NA----------				
		----------	True		Calc.	% Drift	----------		
21	B	Endrin Aldehyde			----------NA----------				
22	B	Endosulfan Sulfate			----------NA----------				
23	A	Methoxychlor			----------NA----------				
24		Mirex			----------NA----------				
25	B	Endrin Ketone			----------NA----------				
		----------	AvgRF		CCRF	% Dev	----------		
26	SA	Decachlorobiphenyl	0.552	0.527	4.5	85	0.00	15.59-15.65	
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	91	0.00	5.60- 6.60	
28	L8	Toxaphene{A}	0.006	0.007	-16.7	101	0.00	11.19-11.39	
29	L8	Toxaphene{B}	0.008	0.012	-50.0#	134	0.00	12.37-12.57	
30	L8	Toxaphene{C}	0.019	0.018	5.3	87	0.00	12.49-12.69	
31	L8	Toxaphene{D}	0.008	0.007	12.5	89	0.00	12.96-13.16	
32	L8	Toxaphene{E}	0.026	0.022	15.4	78	0.00	13.40-13.60	
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	84	0.00	5.60- 6.60	
34		Chlordane {A}			----------NA----------				
35		Chlordane {B}			----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G4G4352-ICV4352
Lab FileID: 4G9738064.D

```
36     Chlordane {C}                        ----------NA----------
37     Chlordane {D}                        ----------NA----------
38     Chlordane {E}                        ----------NA----------
--------------------------------------------------------------------------------
--------------------------------------------------------------------------------

   (#) = Out of Range               SPCC's out = 0  CCC's out = 0
    4g9738059.d 4pstlvi4352a.M       Fri Jun 07 10:08:33 2024
```

Continuing Calibration Summary

Job Number: JD91339 **Sample:** G4G4376-CC4352
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 4G9738707.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\g4...\4g9738707.d\ECD1A.ch Vial: 2
Signal #2 : C:\msdchem\1\data\g4g4376\4g9738707.d\ECD2B.ch
Acq On : 2 Jul 2024 12:36 pm Operator: mahalial
Sample : cc4352-2.5 Inst : GC4G
Misc : op55790,g4g4376,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\methods\4pstlvi4352.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Tue Jul 02 13:30:59 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	97	0.00	5.30- 6.30
2	SAB	Tetrachloro-m-xylene	0.854	0.738	13.6	84	0.00	6.47- 6.53
3		hexachlorobenzene	1.092	1.036	5.1	96	0.00	6.85- 6.91
4	A	alpha-BHC	1.629	1.520	6.7	87	0.00	6.99- 7.05
5	MA	gamma-BHC	1.435	1.296	9.7	84	0.00	7.31- 7.37
6	MA	Heptachlor	1.343	1.220	9.2	87	0.00	7.83- 7.89
7	B	beta-BHC	0.599	0.619	-3.3	103	0.00	7.41- 7.47
8	B	delta-BHC	1.508	1.435	4.8	91	0.00	7.60- 7.66
9	MB	Aldrin	1.377	1.198	13.0	81	0.00	8.17- 8.23
10		alachlor	0.150	0.175	-16.7	109	0.00	8.33- 8.39
11	B	Heptachlor Epoxide	1.218	1.188	2.5	91	0.00	8.91- 8.97
12	B	gamma-Chlordane	1.297	1.267	2.3	94	0.00	9.07- 9.13
13	B	alpha-Chlordane	1.273	1.216	4.5	92	0.00	9.25- 9.31
14	A	Endosulfan I	1.202	1.166	3.0	93	0.00	9.43- 9.49
15	B	4,4'-DDE	1.200	1.221	-1.8	96	0.00	9.36- 9.42
16	MA	Dieldrin	1.298	1.266	2.5	93	0.00	9.76- 9.82
17	MA	Endrin	1.124	1.147	-2.0	97	0.00	10.08-10.14
18	A	4,4'-DDD	0.950	0.992	-4.4	100	0.00	10.21-10.27
19	B	Endosulfan II	1.116	1.083	3.0	95	0.00	10.41-10.47
20	MA	4,4'-DDT	0.921	1.021	-10.9	110	0.00	10.63-10.69
		---------- True	Calc.	% Drift	----------			
21	B	Endrin Aldehyde	2.500	2.603	-4.1	102	0.00	11.05-11.11
		---------- AvgRF	CCRF	% Dev	----------			
22	B	Endosulfan Sulfate	1.030	0.969	5.9	95	0.00	11.74-11.80
23	A	Methoxychlor	0.449	0.554	-23.4#	130	0.00	11.41-11.47
24		Mirex	0.844	0.778	7.8	96	0.00	11.56-11.62
25	B	Endrin Ketone	1.221	1.229	-0.7	99	0.00	12.18-12.24
26	SA	Decachlorobiphenyl	0.908	0.829	8.7	91	0.00	13.95-14.01
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	5.30- 6.30
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	5.30- 6.30
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					

Continuing Calibration Summary

Job Number: JD91339 **Sample:** G4G4376-CC4352
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 4G9738707.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

36		Chlordane {C}			----------NA----------				
37		Chlordane {D}			----------NA----------				
38		Chlordane {E}			----------NA----------				
*****		Signal #2 *****							
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	112	0.00	5.58- 6.58	
2	SAB	Tetrachloro-m-xylene	0.999	1.008	-0.9	117	0.00	6.97- 7.03	
3		hexachlorobenzene	1.146	1.203	-5.0	129	0.00	7.53- 7.59	
4	A	alpha-BHC	1.743	1.835	-5.3	124	0.00	7.68- 7.74	
5	MA	gamma-BHC	1.516	1.571	-3.6	121	0.00	8.14- 8.20	
6	MA	Heptachlor	1.385	1.550	-11.9	137	0.00	8.74- 8.80	
		---------- True Calc. % Drift ----------							
7	B	beta-BHC	2.500	3.081	-23.2#	133	0.00	8.23- 8.29	
		---------- AvgRF CCRF % Dev ----------							
8	B	delta-BHC	1.475	1.596	-8.2	123	0.00	8.64- 8.70	
9	MB	Aldrin	1.341	1.495	-11.5	134	0.00	9.21- 9.27	
		---------- True Calc. % Drift ----------							
10		alachlor	2.500	3.343	-33.7#	139	0.00	9.01- 9.07	
		---------- AvgRF CCRF % Dev ----------							
11	B	Heptachlor Epoxide	1.233	1.323	-7.3	132	0.00	10.05-10.11	
12	B	gamma-Chlordane	1.199	1.285	-7.2	130	0.00	10.33-10.39	
13	B	alpha-Chlordane	1.115	1.203	-7.9	128	0.00	10.56-10.62	
		---------- True Calc. % Drift ----------							
14	A	Endosulfan I	2.500	2.990	-19.6	132	0.00	10.66-10.72	
		---------- AvgRF CCRF % Dev ----------							
15	B	4,4'-DDE	1.186	1.248	-5.2	130	0.00	10.83-10.89	
16	MA	Dieldrin	1.231	1.284	-4.3	128	0.00	11.10-11.16	
17	MA	Endrin	1.056	1.130	-7.0	132	0.00	11.61-11.67	
18	A	4,4'-DDD	0.965	1.005	-4.1	130	0.00	11.78-11.84	
19	B	Endosulfan II	1.029	1.036	-0.7	125	0.00	11.96-12.02	
20	MA	4,4'-DDT	0.965	0.985	-2.1	129	0.00	12.32-12.38	
		---------- True Calc. % Drift ----------							
21	B	Endrin Aldehyde	2.500	2.593	-3.7	118	0.00	12.54-12.60	
22	B	Endosulfan Sulfate	2.500	2.683	-7.3	118	0.00	13.01-13.07	
23	A	Methoxychlor	2.500	2.850	-14.0	128	0.00	13.56-13.62	
24		Mirex	2.500	2.590	-3.6	120	0.00	13.90-13.96	
25	B	Endrin Ketone	2.500	2.793	-11.7	123	0.00	13.96-14.02	
		---------- AvgRF CCRF % Dev ----------							
26	SA	Decachlorobiphenyl	0.552	0.528	4.3	117	0.00	15.57-15.63	
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	5.58- 6.58	
28	L8	Toxaphene{A}			----------NA----------				
29	L8	Toxaphene{B}			----------NA----------				
30	L8	Toxaphene{C}			----------NA----------				
31	L8	Toxaphene{D}			----------NA----------				
32	L8	Toxaphene{E}			----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	5.58- 6.58	
34		Chlordane {A}			----------NA----------				
35		Chlordane {B}			----------NA----------				

10.10.24 10

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G4G4376-CC4352
Lab FileID: 4G9738707.D

```
36     Chlordane {C}                        ----------NA----------
37     Chlordane {D}                        ----------NA----------
38     Chlordane {E}                        ----------NA----------
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    4g9738058.d 4pstlvi4352.M        Tue Jul 02 13:37:31 2024
```

10.10.24
10

Continuing Calibration Summary

Job Number: JD91339 **Sample:** G4G4377-CC4352
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 4G9738739.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\sh...\4g9738739.d\ECD1A.ch Vial: 4
Signal #2 : C:\msdchem\1\data\shahan...4377\4g9738739.d\ECD2B.ch
Acq On : 3 Jul 2024 2:24 am Operator: christp
Sample : cc4352-5 Inst : GC4G
Misc : op55792,g4g4377,5.3,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...76\4pstlvi4352.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Jul 03 09:35:54 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	75	0.00	5.30- 6.30
2	SAB	Tetrachloro-m-xylene	0.854	0.640	25.1#	57	0.00	6.47- 6.53
3		hexachlorobenzene	1.092	1.019	6.7	74	0.00	6.85- 6.91
4	A	alpha-BHC	1.629	1.628	0.1	70	0.00	6.99- 7.05
5	MA	gamma-BHC	1.435	1.340	6.6	65	0.00	7.30- 7.36
6	MA	Heptachlor	1.343	1.349	-0.4	72	0.00	7.83- 7.89
7	B	beta-BHC	0.599	0.639	-6.7	86	0.00	7.41- 7.47
8	B	delta-BHC	1.508	1.502	0.4	74	0.00	7.60- 7.66
9	MB	Aldrin	1.377	1.242	9.8	64	0.00	8.17- 8.23
10		alachlor	0.150	0.179	-19.3	95	0.00	8.33- 8.39
11	B	Heptachlor Epoxide	1.218	1.210	0.7	76	0.00	8.91- 8.97
12	B	gamma-Chlordane	1.297	1.307	-0.8	73	0.00	9.07- 9.13
13	B	alpha-Chlordane	1.273	1.257	1.3	72	0.00	9.25- 9.31
14	A	Endosulfan I	1.202	1.211	-0.7	76	0.00	9.43- 9.49
15	B	4,4'-DDE	1.200	1.269	-5.7	75	0.00	9.37- 9.43
16	MA	Dieldrin	1.298	1.307	-0.7	73	0.00	9.76- 9.82
17	MA	Endrin	1.124	1.179	-4.9	77	0.00	10.08-10.14
18	A	4,4'-DDD	0.950	1.035	-8.9	78	0.00	10.21-10.27
19	B	Endosulfan II	1.116	1.110	0.5	76	0.00	10.41-10.47
20	MA	4,4'-DDT	0.921	1.083	-17.6	86	0.00	10.63-10.69
		---------- True	Calc.	% Drift	----------			
21	B	Endrin Aldehyde	5.000	5.203	-4.1	76	0.00	11.05-11.11
		---------- AvgRF	CCRF	% Dev	----------			
22	B	Endosulfan Sulfate	1.030	0.980	4.9	75	0.00	11.74-11.80
23	A	Methoxychlor	0.449	0.541	-20.5#	95	0.00	11.42-11.48
24		Mirex	0.844	0.767	9.1	75	0.00	11.56-11.62
25	B	Endrin Ketone	1.221	1.223	-0.2	79	0.00	12.18-12.24
26	SA	Decachlorobiphenyl	0.908	0.813	10.5	77	0.00	13.96-14.02
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	87	0.00	5.30- 6.30
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	81	0.00	5.30- 6.30
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					

Continuing Calibration Summary

Job Number: JD91339 **Sample:** G4G4377-CC4352
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 4G9738739.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

36		Chlordane {C}			----------NA----------				
37		Chlordane {D}			----------NA----------				
38		Chlordane {E}			----------NA----------				
*****		Signal #2 *****							
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	89	0.00	5.58- 6.58	
2	SAB	Tetrachloro-m-xylene	0.999	0.983	1.6	93	0.00	6.97- 7.03	
3		hexachlorobenzene	1.146	1.145	0.1	100	0.00	7.52- 7.58	
4	A	alpha-BHC	1.743	1.790	-2.7	93	0.00	7.68- 7.74	
5	MA	gamma-BHC	1.516	1.536	-1.3	93	0.00	8.14- 8.20	
6	MA	Heptachlor	1.385	1.556	-12.3	110	0.00	8.74- 8.80	
		---------- True Calc. % Drift ----------							
7	B	beta-BHC	5.000	6.460	-29.2#	116	0.00	8.23- 8.29	
		---------- AvgRF CCRF % Dev ----------							
8	B	delta-BHC	1.475	1.552	-5.2	105	0.00	8.64- 8.70	
9	MB	Aldrin	1.341	1.416	-5.6	102	0.00	9.21- 9.27	
		---------- True Calc. % Drift ----------							
10		alachlor	5.000	6.315	-26.3#	112	0.00	9.01- 9.07	
		---------- AvgRF CCRF % Dev ----------							
11	B	Heptachlor Epoxide	1.233	1.265	-2.6	103	0.00	10.05-10.11	
12	B	gamma-Chlordane	1.199	1.252	-4.4	101	0.00	10.34-10.40	
13	B	alpha-Chlordane	1.115	1.166	-4.6	109	0.00	10.56-10.62	
		---------- True Calc. % Drift ----------							
14	A	Endosulfan I	5.000	5.889	-17.8	104	0.00	10.66-10.72	
		---------- AvgRF CCRF % Dev ----------							
15	B	4,4'-DDE	1.186	1.213	-2.3	101	0.00	10.83-10.89	
16	MA	Dieldrin	1.231	1.244	-1.1	100	0.00	11.10-11.16	
17	MA	Endrin	1.056	1.096	-3.8	104	0.00	11.61-11.67	
18	A	4,4'-DDD	0.965	0.982	-1.8	100	0.00	11.79-11.85	
19	B	Endosulfan II	1.029	1.005	2.3	98	0.00	11.96-12.02	
20	MA	4,4'-DDT	0.965	0.992	-2.8	102	0.00	12.32-12.38	
		---------- True Calc. % Drift ----------							
21	B	Endrin Aldehyde	5.000	5.337	-6.7	102	0.00	12.54-12.60	
22	B	Endosulfan Sulfate	5.000	5.301	-6.0	95	0.00	13.01-13.07	
23	A	Methoxychlor	5.000	5.778	-15.6	109	0.00	13.57-13.63	
24		Mirex	5.000	5.239	-4.8	96	0.00	13.90-13.96	
25	B	Endrin Ketone	5.000	5.521	-10.4	98	0.00	13.96-14.02	
		---------- AvgRF CCRF % Dev ----------							
26	SA	Decachlorobiphenyl	0.552	0.521	5.6	96	0.00	15.57-15.63	
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	5.58- 6.58	
28	L8	Toxaphene{A}			----------NA----------				
29	L8	Toxaphene{B}			----------NA----------				
30	L8	Toxaphene{C}			----------NA----------				
31	L8	Toxaphene{D}			----------NA----------				
32	L8	Toxaphene{E}			----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	96	0.00	5.58- 6.58	
34		Chlordane {A}			----------NA----------				
35		Chlordane {B}			----------NA----------				

10.10.25 10

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G4G4377-CC4352
Lab FileID: 4G9738739.D

```
36     Chlordane {C}                          ----------NA----------
37     Chlordane {D}                          ----------NA----------
38     Chlordane {E}                          ----------NA----------
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    4g9738739.d 4pstlvi4352.M        Wed Jul 03 09:41:56 2024
```

Initial Calibration Summary

Job Number: JD91339 **Sample:** G5G3634-ICC3634
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5G138220.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Response Factor Report GC5G

Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 05 13:53:33 2024
Response via : Initial Calibration

Calibration Files
2 =5G138217.d 5 =5G138218.d 10 =5G138219.d 25 =5G138220.d
50 =5G138221.d 100 =5G138223.d 1 =5G138216.d 75 =5G138222.d

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.547	0.583	0.601	0.516	0.494	0.481	0.601	0.491	0.539	9.39
3) hexachlorobe	2.042	1.827	1.801	1.844	1.889	1.896	2.247	1.881	1.928	7.66
4) alpha-BHC	1.842	1.734	1.753	1.900	1.976	2.020	1.966	1.987	1.897	5.79
5) gamma-BHC	1.498	1.523	1.609	1.715	1.775	1.807	1.467	1.798	1.649	8.60
6) Heptachlor	1.917	1.655	1.638	1.722	1.751	1.735	1.984	1.751	1.769	6.84
7) beta-BHC	0.651	0.623	0.588	0.597	0.573	0.579	0.619	0.581	0.601	4.52
8) delta-BHC	1.863	1.707	1.730	1.914	1.959	2.014	2.161	2.023	1.921	7.96
9) Aldrin	1.777	1.647	1.674	1.741	1.795	1.774	1.766	1.779	1.744	3.11
10) alachlor		0.154	0.147	0.147	0.132	0.122		0.127	0.138	9.28
11) Heptachlor E	1.599	1.522	1.446	1.547	1.548	1.507	1.724	1.735	1.579	6.50
12) gamma-Chlord	1.748	1.563	1.573	1.631	1.710	1.708	1.811	1.763	1.688	5.36
13) alpha-Chlord	1.617	1.484	1.525	1.588	1.645	1.636	1.597	1.674	1.596	3.98
14) Endosulfan I	1.565	1.560	1.579	1.592	1.569	1.503	1.581	1.756	1.588	4.60
15) 4,4'-DDE	1.461	1.359	1.383	1.426	1.448	1.433	1.490	1.447	1.431	2.95
16) Dieldrin	1.817	1.609	1.627	1.645	1.646	1.604	1.872	1.634	1.682	6.11
17) Endrin	1.583	1.408	1.452	1.427	1.434	1.405	1.654	1.456	1.477	6.15
18) 4,4'-DDD	1.384	1.162	1.148	1.143	1.157	1.173	1.588	1.182	1.242	12.93
19) Endosulfan I	1.606	1.346	1.357	1.351	1.333	1.346	1.644	1.348	1.416	9.14
20) 4,4'-DDT	1.107	1.029	1.087	1.125	1.177	1.224	1.167	1.181	1.137	5.49
21) Endrin Aldeh	1.333	1.007	0.990	0.952	0.934	0.906	1.380	0.920	1.053	18.14
22) Endosulfan S	1.514	1.295	1.298	1.292	1.302	1.275	1.687	1.286	1.369	11.00
23) Methoxychlor	0.600	0.608	0.580	0.537	0.528	0.506	0.699	0.521	0.572	11.12
24) Mirex	1.249	0.960	0.912	0.875	0.878	0.856	1.270	0.874	0.984	17.58
25) Endrin Keton	1.791	1.509	1.470	1.427	1.392	1.345	1.862	1.374	1.521	12.90
26) Decachlorobi	1.546	1.357	1.329	1.362	1.337	1.320	2.006	1.325	1.448	16.39
27) I 1-bromo-2-nitrobenzen	ISTD									
28) Toxaphene{A}				0.008					0.008	0.00
29) Toxaphene{B}				0.012					0.012	0.00
30) Toxaphene{C}				0.009					0.009	0.00
31) Toxaphene{D}				0.032					0.032	0.00
32) Toxaphene{E}				0.030					0.030	0.00
33) I 1-bromo-2-nitrobenzen	ISTD									
34) Chlordane {A				0.078					0.078	0.00
35) Chlordane {B				0.042					0.042	0.00
36) Chlordane {C				0.186					0.186	0.00
37) Chlordane {D				0.289					0.289	0.00
38) Chlordane {E				0.041					0.041	0.00

Signal #2

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	1.533	1.376	1.289	1.266	1.213	1.155	1.653	1.187	1.334	13.24

10.10.26 10

Initial Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G5G3634-ICC3634
Lab FileID: 5G138220.D

3)	hexachlorobe	2.114	1.928	1.841	1.809	1.736	1.656	2.240	1.704	1.879	10.94
4)	alpha-BHC	2.295	2.181	2.115	2.151	2.093	2.014	2.447	2.048	2.168	6.54
5)	gamma-BHC	2.051	1.991	1.915	1.910	1.854	1.792	2.186	1.832	1.941	6.68
6)	Heptachlor	1.321	1.160	1.180	1.264	1.174	1.094	1.273	1.130	1.199	6.52
7)	beta-BHC	1.008	0.869	0.820	0.798	0.738	0.714	1.213	0.731	0.861	19.85
8)	delta-BHC	1.954	1.924	1.867	1.903	1.813	1.755	2.191	1.803	1.901	7.09
9)	Aldrin	1.922	1.852	1.803	1.804	1.714	1.609	2.009	1.659	1.797	7.43
10)	alachlor		0.223	0.202	0.191	0.169	0.157		0.163	0.184	13.82
11)	Heptachlor E	1.859	1.702	1.633	1.600	1.489	1.386	2.019	1.443	1.641	13.08
12)	gamma-Chlord	1.867	1.748	1.679	1.696	1.636	1.560	2.049	1.601	1.730	9.24
13)	alpha-Chlord	1.840	1.722	1.638	1.633	1.573	1.499	2.004	1.555	1.683	9.94
14)	Endosulfan I	1.537	1.403	1.286	1.459	1.344	1.233	1.586	1.275	1.391	9.25
15)	4,4'-DDE	1.670	1.533	1.491	1.491	1.458	1.401	1.796	1.416	1.532	8.84
16)	Dieldrin	1.773	1.649	1.591	1.581	1.503	1.410	1.896	1.457	1.608	10.14
17)	Endrin	1.321	1.160	1.171	1.116	1.088	1.046	1.440	1.092	1.179	11.40
18)	4,4'-DDD	1.101	0.990	0.945	0.918	0.867	0.839	1.292	0.855	0.976	15.75
19)	Endosulfan I	1.564	1.437	1.383	1.367	1.284	1.198	1.691	1.243	1.396	11.91
20)	4,4'-DDT	1.062	0.994	0.985	0.981	0.967	0.958	1.268	0.958	1.022	10.27
21)	Endrin Aldeh	1.148	1.060	1.000	0.969	0.904	0.844	1.390	0.856	1.021	17.72
22)	Endosulfan S	1.584	1.403	1.357	1.328	1.234	1.150	1.842	1.189	1.386	16.59
23)	Methoxychlor	0.524	0.428	0.416	0.396	0.362	0.341	0.532	0.343	0.418	17.96
24)	Mirex	1.064	0.990	0.944	0.923	0.910	0.866	1.258	0.873	0.979	13.30
25)	Endrin Keton	1.582	1.479	1.413	1.377	1.299	1.211	1.743	1.225	1.416	12.86
26)	Decachlorobi	1.101	0.982	0.944	0.940	0.932	0.902	1.249	0.904	0.994	12.17

27)	I 1-bromo-2-nitrobenzen	----------ISTD----------		
28)	Toxaphene{A}	0.005	0.005	0.00
29)	Toxaphene{B}	0.007	0.007	0.00
30)	Toxaphene{C}	0.008	0.008	0.00
31)	Toxaphene{D}	0.021	0.021	0.00
32)	Toxaphene{E}	0.033	0.033	0.00

33)	I 1-bromo-2-nitrobenzen	----------ISTD----------		
34)	Chlordane {A	0.054	0.054	0.00
35)	Chlordane {B	0.043	0.043	0.00
36)	Chlordane {C	0.164	0.164	0.00
37)	Chlordane {D	0.268	0.268	0.00
38)	Chlordane {E	0.036	0.036	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

5pstlvi3634a.M Wed Jun 05 13:57:46 2024

10.10.26 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G5G3634-ICV3634
Lab FileID: 5G138224.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\g5...4\5G138224.d\ECD1A.ch Vial: 21
Signal #2 : C:\msdchem\1\data\g5g3634\5G138224.d\ECD2B.ch
Acq On : 5 Jun 2024 12:41 pm Operator: rebeccak
Sample : icv3634-2.5 (pest mix) Inst : GC5G
Misc : op55026,G5G3634,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 05 13:31:00 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	128	0.00	4.12- 5.12
2	SAB	Tetrachloro-m-xylene	0.539	0.462	14.3	115	0.00	5.22- 5.28
3		hexachlorobenzene	1.928	1.677	13.0	117	0.00	5.55- 5.61
4	A	alpha-BHC	1.897	1.648	13.1	111	0.00	5.70- 5.76
5	MA	gamma-BHC	1.649	1.474	10.6	110	0.00	5.99- 6.05
6	MA	Heptachlor	1.769	1.542	12.8	115	0.00	6.46- 6.52
7	B	beta-BHC	0.601	0.516	14.1	111	0.00	6.07- 6.13
8	B	delta-BHC	1.921	1.611	16.1	108	0.00	6.24- 6.30
9	MB	Aldrin	1.744	1.570	10.0	116	0.00	6.78- 6.84
10		alachlor	0.138	0.122	11.6	106	0.00	6.95- 7.01
11	B	Heptachlor Epoxide	1.579	1.387	12.2	115	0.00	7.48- 7.54
12	B	gamma-Chlordane	1.688	1.434	15.0	113	0.00	7.64- 7.70
13	B	alpha-Chlordane	1.596	1.344	15.8	108	0.00	7.80- 7.86
14	A	Endosulfan I	1.588	1.368	13.9	110	0.00	7.97- 8.03
15	B	4,4'-DDE	1.431	1.243	13.1	112	0.00	7.92- 7.98
16	MA	Dieldrin	1.682	1.461	13.1	114	0.00	8.29- 8.35
17	MA	Endrin	1.477	1.308	11.4	117	0.00	8.60- 8.66
18	A	4,4'-DDD	1.242	1.036	16.6	116	0.00	8.74- 8.80
19	B	Endosulfan II	1.416	1.210	14.5	115	0.00	8.92- 8.98
20	MA	4,4'-DDT	1.137	1.020	10.3	116	0.00	9.14- 9.20
21	B	Endrin Aldehyde	1.053	0.980	6.9	132	0.00	9.54- 9.60
22	B	Endosulfan Sulfate	1.369	1.125	17.8	112	0.00	10.21-10.27
23	A	Methoxychlor	0.572	0.496	13.3	118	0.00	9.92- 9.98
24		Mirex	0.984	0.825	16.2	121	0.00	10.03-10.09
25	B	Endrin Ketone	1.521	1.234	18.9	111	0.00	10.64-10.70
26	SA	Decachlorobiphenyl	1.448	1.211	16.4	114	0.00	12.43-12.49
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	128	0.00	4.12- 5.12
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	128	0.00	4.12- 5.12
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G5G3634-ICV3634
Lab FileID: 5G138224.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	128	0.00	4.42- 5.42
2	SAB	Tetrachloro-m-xylene	1.334	1.173	12.1	119	0.00	5.71- 5.77
3		hexachlorobenzene	1.879	1.653	12.0	117	0.00	6.20- 6.26
4	A	alpha-BHC	2.168	1.922	11.3	115	0.00	6.35- 6.41
5	MA	gamma-BHC	1.941	1.668	14.1	112	0.00	6.76- 6.82
6	MA	Heptachlor	1.199	1.127	6.0	114	0.00	7.31- 7.37
7	B	beta-BHC	0.861	0.695	19.3	112	0.00	6.85- 6.91
8	B	delta-BHC	1.901	1.608	15.4	108	0.00	7.23- 7.29
9	MB	Aldrin	1.797	1.590	11.5	113	0.00	7.74- 7.80
10		alachlor	0.184	0.179	2.7	120	0.00	7.58- 7.64
11	B	Heptachlor Epoxide	1.641	1.428	13.0	114	0.00	8.54- 8.60
12	B	gamma-Chlordane	1.730	1.489	13.9	112	0.00	8.81- 8.87
13	B	alpha-Chlordane	1.683	1.385	17.7	109	0.00	9.03- 9.09
14	A	Endosulfan I	1.391	1.219	12.4	107	0.00	9.12- 9.18
15	B	4,4'-DDE	1.532	1.335	12.9	115	0.00	9.30- 9.36
16	MA	Dieldrin	1.608	1.411	12.3	114	0.00	9.54- 9.60
17	MA	Endrin	1.179	1.114	5.5	128	0.00	10.03-10.09
18	A	4,4'-DDD	0.976	0.878	10.0	123	0.00	10.23-10.29
19	B	Endosulfan II	1.396	1.231	11.8	115	0.00	10.38-10.44
20	MA	4,4'-DDT	1.022	0.899	12.0	117	0.00	10.75-10.81
21	B	Endrin Aldehyde	1.021	0.917	10.2	121	0.00	10.94-11.00
22	B	Endosulfan Sulfate	1.386	1.140	17.7	110	0.00	11.40-11.46
23	A	Methoxychlor	0.418	0.403	3.6	130	0.00	11.98-12.04
24		Mirex	0.979	0.886	9.5	123	0.00	12.26-12.32
25	B	Endrin Ketone	1.416	1.203	15.0	112	0.00	12.34-12.40
26	SA	Decachlorobiphenyl	0.994	0.860	13.5	117	0.00	14.17-14.23
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	128	0.00	4.42- 5.42
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	128	0.00	4.42- 5.42
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					
36		Chlordane {C}	----------NA----------					
37		Chlordane {D}	----------NA----------					
38		Chlordane {E}	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5G138220.d 5pstlvi3634a.M Wed Jun 05 13:35:51 2024

10.10.27 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G5G3634-ICV3634
Lab FileID: 5G138225.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\g5...4\5G138225.d\ECD1A.ch Vial: 22
Signal #2 : C:\msdchem\1\data\g5g3634\5G138225.d\ECD2B.ch
Acq On : 5 Jun 2024 1:02 pm Operator: rebeccak
Sample : icv3634-50 (chlordane) Inst : GC5G
Misc : op55026,G5G3634,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 05 13:39:48 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	87	0.00	4.12- 5.12
2	SAB	Tetrachloro-m-xylene	0.539	0.473	12.2	83	0.00	5.22- 5.28
3		hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	1.448	1.253	13.5	81	0.00	12.42-12.48
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	87	0.00	4.12- 5.12
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.00	4.12- 5.12
34		Chlordane {A}	0.078	0.081	-3.8	96	0.00	6.39- 6.59
35		Chlordane {B}	0.042	0.045	-7.1	99	0.00	6.86- 7.06
36		Chlordane {C}	0.186	0.185	0.5	93	0.00	7.57- 7.77
37		Chlordane {D}	0.289	0.290	-0.3	93	0.00	7.72- 7.92
38		Chlordane {E}	0.041	0.043	-4.9	98	0.00	8.75- 8.95

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G5G3634-ICV3634
Lab FileID: 5G138225.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	89	0.00	4.42- 5.42
2	SAB	Tetrachloro-m-xylene	1.334	1.153	13.6	84	0.00	5.71- 5.77
3		hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	0.994	0.882	11.3	84	0.00	14.17-14.23
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	89	0.00	4.42- 5.42
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.00	4.42- 5.42
34		Chlordane {A}	0.054	0.067	-24.1#	114	0.00	7.24- 7.44
35		Chlordane {B}	0.043	0.049	-14.0	107	0.00	7.87- 8.07
36		Chlordane {C}	0.164	0.171	-4.3	97	0.00	8.75- 8.95
37		Chlordane {D}	0.268	0.285	-6.3	99	0.00	8.96- 9.16
38		Chlordane {E}	0.036	0.042	-16.7	108	0.00	10.38-10.58

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5G138214.d 5pstlvi3634a.M Wed Jun 05 13:41:15 2024

10.10.28 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G5G3634-ICV3634
Lab FileID: 5G138226.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\g5...4\5G138226.d\ECD1A.ch Vial: 23
Signal #2 : C:\msdchem\1\data\g5g3634\5G138226.d\ECD2B.ch
Acq On : 5 Jun 2024 1:22 pm Operator: rebeccak
Sample : icv3634-50 (toxaphene) Inst : GC5G
Misc : op55026,G5G3634,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 05 13:53:33 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	83	0.00	4.12- 5.12
2	SAB	Tetrachloro-m-xylene	0.539	0.510	5.4	86	0.00	5.22- 5.28
3		hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	1.448	1.311	9.5	81	0.00	12.43-12.49
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	4.12- 5.12
28	L8	Toxaphene{A}	0.008	0.008	0.0	109	0.00	7.70- 7.90
29	L8	Toxaphene{B}	0.012	0.012	0.0	99	0.00	8.35- 8.55
30	L8	Toxaphene{C}	0.009	0.011	-22.2#	119	0.00	9.34- 9.54
31	L8	Toxaphene{D}	0.032	0.019	40.6#	58	0.03	9.66- 9.86
32	L8	Toxaphene{E}	0.030	0.026	13.3	83	0.00	9.97-10.17
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	89	0.00	4.12- 5.12
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G5G3634-ICV3634
Lab FileID: 5G138226.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	87	0.00	4.42- 5.42
2	SAB	Tetrachloro-m-xylene	1.334	1.270	4.8	91	0.00	5.71- 5.77
3		hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
21	B	Endrin Aldehyde		----------NA----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	0.994	0.954	4.0	89	0.00	14.17-14.23
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	97	0.00	4.42- 5.42
28	L8	Toxaphene{A}	0.005	0.006	-20.0	121	0.00	8.46- 8.66
29	L8	Toxaphene{B}	0.007	0.010	-42.9#	140	0.00	9.61- 9.81
30	L8	Toxaphene{C}	0.008	0.007	12.5	95	0.00	10.57-10.77
31	L8	Toxaphene{D}	0.021	0.027	-28.6#	122	0.00	10.87-11.07
32	L8	Toxaphene{E}	0.033	0.029	12.1	86	0.00	11.75-11.95
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	91	0.00	4.42- 5.42
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5G138215.d 5pstlvi3634a.M Wed Jun 05 13:56:56 2024

Continuing Calibration Summary

Job Number: JD91339 **Sample:** G5G3662-CC3634
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5G138921.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\na...2\5G138921.d\ECD1A.ch Vial: 2
Signal #2 : C:\msdchem\1\data\nazary...g3662\5G138921.d\ECD2B.ch
Acq On : 2 Jul 2024 3:35 pm Operator: tilakp
Sample : cc3634-2.5 Inst : GC5G
Misc : op55761,G5G3662,5.2,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...62\5pstlvi3634.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Jul 03 05:16:26 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	80	0.00	4.12- 5.12
2	SAB	Tetrachloro-m-xylene	0.539	0.415	23.0#	64	0.00	5.22- 5.28
3		hexachlorobenzene	1.928	2.211	-14.7	96	0.00	5.55- 5.61
4	A	alpha-BHC	1.897	2.087	-10.0	88	0.00	5.69- 5.75
5	MA	gamma-BHC	1.649	1.876	-13.8	88	0.00	5.98- 6.04
6	MA	Heptachlor	1.769	1.828	-3.3	85	0.00	6.46- 6.52
7	B	beta-BHC	0.601	0.562	6.5	75	0.00	6.06- 6.12
8	B	delta-BHC	1.921	1.904	0.9	80	0.00	6.24- 6.30
9	MB	Aldrin	1.744	1.836	-5.3	85	0.00	6.78- 6.84
10		alachlor	0.138	0.133	3.6	72	0.00	6.94- 7.00
11	B	Heptachlor Epoxide	1.579	1.578	0.1	82	0.00	7.47- 7.53
12	B	gamma-Chlordane	1.688	1.727	-2.3	85	0.00	7.63- 7.69
13	B	alpha-Chlordane	1.596	1.628	-2.0	82	0.00	7.79- 7.85
14	A	Endosulfan I	1.588	1.641	-3.3	83	0.00	7.96- 8.02
15	B	4,4'-DDE	1.431	1.419	0.8	80	0.00	7.91- 7.97
16	MA	Dieldrin	1.682	1.617	3.9	79	0.00	8.28- 8.34
17	MA	Endrin	1.477	1.456	1.4	82	0.00	8.59- 8.65
18	A	4,4'-DDD	1.242	1.116	10.1	78	0.00	8.73- 8.79
19	B	Endosulfan II	1.416	1.344	5.1	80	0.00	8.91- 8.97
20	MA	4,4'-DDT	1.137	1.235	-8.6	88	0.00	9.13- 9.19
21	B	Endrin Aldehyde	1.053	1.029	2.3	87	0.00	9.52- 9.58
22	B	Endosulfan Sulfate	1.369	1.416	-3.4	88	0.00	10.20-10.26
23	A	Methoxychlor	0.572	0.578	-1.0	86	0.00	9.91- 9.97
24		Mirex	0.984	0.903	8.2	83	0.00	10.02-10.08
25	B	Endrin Ketone	1.521	1.437	5.5	81	0.00	10.62-10.68
26	SA	Decachlorobiphenyl	1.448	1.228	15.2	72	0.00	12.41-12.47
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	80	0.00	4.12- 5.12
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	80	0.00	4.12- 5.12
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G5G3662-CC3634
Lab FileID: 5G138921.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	4.42- 5.42
2	SAB	Tetrachloro-m-xylene	1.334	1.260	5.5	102	0.00	5.71- 5.77
3		hexachlorobenzene	1.879	1.713	8.8	98	0.00	6.19- 6.25
4	A	alpha-BHC	2.168	2.092	3.5	100	0.00	6.35- 6.41
5	MA	gamma-BHC	1.941	1.854	4.5	100	0.00	6.75- 6.81
6	MA	Heptachlor	1.199	1.171	2.3	95	0.00	7.30- 7.36
7	B	beta-BHC	0.861	0.757	12.1	98	0.00	6.84- 6.90
8	B	delta-BHC	1.901	1.830	3.7	99	0.00	7.21- 7.27
9	MB	Aldrin	1.797	1.699	5.5	97	0.00	7.73- 7.79
10		alachlor	0.184	0.208	-13.0	112	0.00	7.56- 7.62
11	B	Heptachlor Epoxide	1.641	1.479	9.9	95	0.00	8.52- 8.58
12	B	gamma-Chlordane	1.730	1.539	11.0	93	0.00	8.80- 8.86
13	B	alpha-Chlordane	1.683	1.467	12.8	93	0.00	9.01- 9.07
14	A	Endosulfan I	1.391	1.230	11.6	87	0.00	9.10- 9.16
15	B	4,4'-DDE	1.532	1.417	7.5	98	0.00	9.28- 9.34
16	MA	Dieldrin	1.608	1.470	8.6	96	0.00	9.52- 9.58
17	MA	Endrin	1.179	1.175	0.3	108	0.00	10.01-10.07
18	A	4,4'-DDD	0.976	1.009	-3.4	113	0.00	10.20-10.26
19	B	Endosulfan II	1.396	1.188	14.9	90	0.00	10.35-10.41
20	MA	4,4'-DDT	1.022	0.788	22.9#	83	0.00	10.72-10.78
21	B	Endrin Aldehyde	1.021	0.816	20.1#	87	0.00	10.91-10.97
22	B	Endosulfan Sulfate	1.386	1.035	25.3#	80	0.00	11.37-11.43
23	A	Methoxychlor	0.418	0.337	19.4	88	0.00	11.95-12.01
24		Mirex	0.979	0.695	29.0#	78	0.00	12.24-12.30
25	B	Endrin Ketone	1.416	1.086	23.3#	81	0.00	12.31-12.37
26	SA	Decachlorobiphenyl	0.994	0.698	29.8#	77	0.00	14.15-14.21
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	4.42- 5.42
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	4.42- 5.42
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5G138833.d 5pstlvi3634.M Wed Jul 03 05:23:03 2024

10.10.30 10

Continuing Calibration Summary

Job Number: JD91339 **Sample:** G5G3663-CC3634
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5G138944.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\an...3\5G138944.d\ECD1A.ch Vial: 4
Signal #2 : C:\msdchem\1\data\anndg\g5g3663\5G138944.d\ECD2B.ch
Acq On : 3 Jul 2024 2:52 am Operator: christpp
Sample : cc3634-5 Inst : GC5G
Misc : op55814,G5G3663,30,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...63\5pstlvi3634.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Jul 03 09:06:08 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	70	0.00	4.13- 5.13
2	SAB	Tetrachloro-m-xylene	0.539	0.430	20.2#	61	0.00	5.23- 5.29
3		hexachlorobenzene	1.928	2.135	-10.7	79	0.00	5.56- 5.62
4	A	alpha-BHC	1.897	2.108	-11.1	75	0.00	5.70- 5.76
5	MA	gamma-BHC	1.649	1.908	-15.7	76	0.00	5.99- 6.05
6	MA	Heptachlor	1.769	1.943	-9.8	78	0.00	6.47- 6.53
7	B	beta-BHC	0.601	0.580	3.5	71	0.00	6.07- 6.13
8	B	delta-BHC	1.921	2.106	-9.6	76	0.00	6.25- 6.31
9	MB	Aldrin	1.744	1.949	-11.8	76	0.00	6.79- 6.85
10		alachlor	0.138	0.133	3.6	71	0.00	6.95- 7.01
11	B	Heptachlor Epoxide	1.579	1.693	-7.2	77	0.00	7.48- 7.54
12	B	gamma-Chlordane	1.688	1.845	-9.3	76	0.00	7.64- 7.70
13	B	alpha-Chlordane	1.596	1.743	-9.2	75	0.00	7.81- 7.87
14	A	Endosulfan I	1.588	1.689	-6.4	76	0.00	7.98- 8.04
15	B	4,4'-DDE	1.431	1.524	-6.5	74	0.00	7.93- 7.99
16	MA	Dieldrin	1.682	1.726	-2.6	74	0.00	8.29- 8.35
17	MA	Endrin	1.477	1.552	-5.1	76	0.00	8.61- 8.67
18	A	4,4'-DDD	1.242	1.231	0.9	75	0.00	8.74- 8.80
19	B	Endosulfan II	1.416	1.421	-0.4	75	0.00	8.92- 8.98
20	MA	4,4'-DDT	1.137	1.198	-5.4	72	0.00	9.15- 9.21
21	B	Endrin Aldehyde	1.053	0.991	5.9	75	0.00	9.54- 9.60
22	B	Endosulfan Sulfate	1.369	1.338	2.3	72	0.00	10.21-10.27
23	A	Methoxychlor	0.572	0.565	1.2	75	0.00	9.93- 9.99
24		Mirex	0.984	0.867	11.9	70	0.00	10.03-10.09
25	B	Endrin Ketone	1.521	1.389	8.7	70	0.00	10.64-10.70
26	SA	Decachlorobiphenyl	1.448	1.325	8.5	70	0.00	12.43-12.49
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	83	0.00	4.13- 5.13
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	76	0.00	4.13- 5.13
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G5G3663-CC3634
Lab FileID: 5G138944.D

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	71	0.00	4.43- 5.43
2	SAB	Tetrachloro-m-xylene	1.334	1.443	-8.2	84	0.00	5.72- 5.78
3		hexachlorobenzene	1.879	1.907	-1.5	78	0.00	6.20- 6.26
4	A	alpha-BHC	2.168	2.325	-7.2	79	0.00	6.35- 6.41
5	MA	gamma-BHC	1.941	1.925	0.8	73	0.00	6.76- 6.82
6	MA	Heptachlor	1.199	1.027	14.3	62	0.00	7.31- 7.37
7	B	beta-BHC	0.861	0.797	7.4	76	0.00	6.85- 6.91
8	B	delta-BHC	1.901	1.889	0.6	74	0.00	7.22- 7.28
9	MB	Aldrin	1.797	1.902	-5.8	78	0.00	7.74- 7.80
10		alachlor	0.184	0.148	19.6	62	0.00	7.57- 7.63
11	B	Heptachlor Epoxide	1.641	1.558	5.1	74	0.00	8.53- 8.59
12	B	gamma-Chlordane	1.730	1.791	-3.5	77	0.00	8.81- 8.87
13	B	alpha-Chlordane	1.683	1.716	-2.0	77	0.00	9.03- 9.09
14	A	Endosulfan I	1.391	1.467	-5.5	77	0.00	9.12- 9.18
15	B	4,4'-DDE	1.532	1.445	5.7	70	0.00	9.30- 9.36
16	MA	Dieldrin	1.608	1.647	-2.4	77	0.00	9.54- 9.60
17	MA	Endrin	1.179	1.181	-0.2	77	0.00	10.03-10.09
18	A	4,4'-DDD	0.976	0.922	5.5	75	0.00	10.22-10.28
19	B	Endosulfan II	1.396	1.370	1.9	75	0.00	10.37-10.43
20	MA	4,4'-DDT	1.022	0.846	17.2	62	0.00	10.74-10.80
21	B	Endrin Aldehyde	1.021	0.935	8.4	73	0.00	10.93-10.99
22	B	Endosulfan Sulfate	1.386	1.217	12.2	70	0.00	11.39-11.45
23	A	Methoxychlor	0.418	0.363	13.2	71	0.00	11.97-12.03
24		Mirex	0.979	0.891	9.0	69	0.00	12.26-12.32
25	B	Endrin Ketone	1.416	1.159	18.1	63	0.00	12.33-12.39
26	SA	Decachlorobiphenyl	0.994	0.794	20.1#	60	0.00	14.16-14.22
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	79	0.00	4.43- 5.43
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	74	0.00	4.43- 5.43
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				
36		Chlordane {C}		----------NA----------				
37		Chlordane {D}		----------NA----------				
38		Chlordane {E}		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5G138775.d 5pstlvi3634.M Wed Jul 03 09:08:46 2024

10.10.31 10

Initial Calibration Summary

Job Number: JD91339 **Sample:** G8G2430-ICC2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G55359.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Response Factor Report GC8G

Method : C:\msdchem\1\methods\8PSTLVI2430.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 03 10:35:10 2024
Response via : Initial Calibration

Calibration Files
2 =8g55356.d 5 =8g55357.d 10 =8g55358.d 25 =8g55359.d
50 =8g55360.d 100 =8g55362.d 75 =8g55361.d =

Compound	2	5	10	25	50	100	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD								
2) Tetrachloro-	1.227	1.053	0.996	0.984	0.999	1.022	1.013	1.042	8.13
3) hexachlorobe	2.126	1.667	1.695	1.610	1.595	1.559	1.540	1.684	12.00
4) alpha-BHC	0.988	0.939	1.077	1.311	1.487	1.365	1.442	1.230	18.25
5) gamma-BHC	1.455	1.366	1.347	1.396	1.454	1.500	1.470	1.427	4.02
6) Heptachlor	1.769	1.433	1.352	1.344	1.341	1.341	1.334	1.416	11.25
7) beta-BHC	0.846	0.696	0.645	0.644	0.637	0.652	0.639	0.680	11.19
8) delta-BHC	1.320	1.129	1.174	1.211	1.283	1.345	1.338	1.257	6.84
9) Aldrin	1.478	1.245	1.231	1.233	1.266	1.297	1.288	1.291	6.68
10) alachlor		0.230	0.206	0.186	0.173	0.157	0.162	0.186	14.93
11) Heptachlor E	1.216	1.174	1.134	1.082	1.068	1.047	1.058	1.111	5.81
12) gamma-Chlord	1.512	1.340	1.268	1.268	1.277	1.260	1.262	1.312	7.04
13) alpha-Chlord	1.445	1.263	1.200	1.165	1.193	1.178	1.202	1.235	7.89
14) Endosulfan I	1.397	1.256	1.178	1.133	1.161	1.108	1.136	1.196	8.43
15) 4,4'-DDE	1.359	1.169	1.132	1.127	1.149	1.180	1.163	1.183	6.76
16) Dieldrin	1.465	1.358	1.267	1.211	1.226	1.219	1.213	1.280	7.58
17) Endrin	1.282	1.178	1.124	1.094	1.102	1.120	1.098	1.142	5.93
18) 4,4'-DDD	0.740	0.838	0.889	0.861	0.926	0.864	0.942	0.866	7.71
19) Endosulfan I	1.237	1.152	1.094	1.049	1.056	1.046	1.053	1.098	6.55
20) 4,4'-DDT	1.314	0.814	0.955	0.929	0.927	0.973	0.957	0.981	15.89
21) Endrin Aldeh	1.503	1.023	0.962	0.834	0.784	0.757	0.756	0.945	28.22
----- Quadratic regression ----- Coefficient = 0.9985									
Response Ratio = 0.02829 + 0.78671 *A + -0.02603 *A^2									
22) Endosulfan S	1.106	1.081	0.999	0.955	0.945	0.907	0.914	0.987	8.04
23) Methoxychlor	0.590	0.634	0.582	0.533	0.544	0.513	0.509	0.558	8.21
24) Mirex	1.238	1.066	0.967	0.900	0.842	0.804	0.813	0.947	16.72
25) Endrin Keton	1.295	1.228	1.175	1.140	1.144	1.103	1.114	1.171	5.85
26) Decachlorobi		1.353	1.287	1.098	1.051	0.953	1.003	1.124	14.26
27) I 1-bromo-2-nitrobenzen	ISTD								
28) Toxaphene{A}				0.006				0.006	0.00
29) Toxaphene{B}				0.010				0.010	0.00
30) Toxaphene{C}				0.011				0.011	0.00
31) Toxaphene{D}				0.012				0.012	0.00
32) Toxaphene{E}				0.026				0.026	0.00
33) I 1-bromo-2-nitrobenzen	ISTD								
34) Chlordane {A				0.067				0.067	0.00
35) Chlordane {B				0.045				0.045	0.00
36) Chlordane {C				0.147				0.147	0.00
37) Chlordane {D				0.230				0.230	0.00
38) Chlordane {E				0.033				0.033	0.00

Signal #2

Initial Calibration Summary

Job Number: JD91339 **Sample:** G8G2430-ICC2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G55359.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

1)	I 1-bromo-2-nitrobenzen	----------ISTD----------								
2)	Tetrachloro-	1.737	1.538	1.467	1.416	1.448	1.330	1.365	1.471	9.21
3)	hexachlorobe	1.823	1.709	1.612	1.514	1.459	1.432	1.461	1.573	9.42
4)	alpha-BHC	2.247	2.152	2.107	2.052	2.034	2.023	2.058	2.096	3.83
5)	gamma-BHC	1.964	1.899	1.850	1.816	1.802	1.769	1.806	1.844	3.64
6)	Heptachlor	1.785	1.684	1.637	1.556	1.567	1.464	1.546	1.606	6.57
7)	beta-BHC	0.981	0.895	0.837	0.830	0.814	0.789	0.846	0.856	7.48
8)	delta-BHC	1.755	1.647	1.611	1.492	1.451	1.412	1.463	1.548	8.13
9)	Aldrin	1.993	1.846	1.772	1.681	1.623	1.535	1.596	1.721	9.30
10)	alachlor		0.359	0.294	0.246	0.222	0.196	0.206	0.254	24.55

----- Quadratic regression ----- Coefficient = 0.9999
Response Ratio = 0.01307 + 0.23104 *A + -0.02164 *A^2

11)	Heptachlor E	1.811	1.699	1.614	1.544	1.513	1.448	1.494	1.589	8.09
12)	gamma-Chlord	1.777	1.631	1.562	1.578	1.561	1.534	1.566	1.601	5.17
13)	alpha-Chlord	1.716	1.586	1.502	1.430	1.384	1.341	1.385	1.478	9.06
14)	Endosulfan I	1.627	1.635	1.491	1.391	1.362	1.237	1.354	1.442	10.30
15)	4,4'-DDE	1.746	1.587	1.526	1.475	1.451	1.428	1.453	1.524	7.34
16)	Dieldrin	1.893	1.700	1.620	1.564	1.549	1.508	1.544	1.625	8.23
17)	Endrin	1.461	1.377	1.283	1.250	1.196	1.138	1.197	1.272	8.90
18)	4,4'-DDD	1.428	1.321	1.321	1.244	1.200	1.140	1.186	1.263	7.88
19)	Endosulfan I	1.507	1.386	1.371	1.304	1.265	1.202	1.265	1.328	7.62
20)	4,4'-DDT	1.101	0.636	0.923	0.920	0.884	0.935	0.995	0.913	15.50
21)	Endrin Aldeh	1.105	0.973	0.976	0.928	0.886	0.859	0.901	0.947	8.68
22)	Endosulfan S	1.396	1.283	1.212	1.159	1.132	1.093	1.122	1.200	8.96
23)	Methoxychlor	0.286	0.415	0.422	0.424	0.438	0.416	0.453	0.408	13.59
24)	Mirex	1.206	1.066	0.977	0.906	0.878	0.859	0.881	0.967	13.20
25)	Endrin Keton	1.412	1.350	1.292	1.252	1.233	1.209	1.239	1.284	5.69
26)	Decachlorobi		0.811	0.749	0.678	0.664	0.612	0.667	0.697	10.19

27)	I 1-bromo-2-nitrobenzen	----------ISTD----------								
28)	Toxaphene{A}					0.009			0.009	0.00
29)	Toxaphene{B}					0.032			0.032	0.00
30)	Toxaphene{C}					0.008			0.008	0.00
31)	Toxaphene{D}					0.023			0.023	0.00
32)	Toxaphene{E}					0.025			0.025	0.00

33)	I 1-bromo-2-nitrobenzen	----------ISTD----------								
34)	Chlordane {A					0.089			0.089	0.00
35)	Chlordane {B					0.055			0.055	0.00
36)	Chlordane {C					0.185			0.185	0.00
37)	Chlordane {D					0.302			0.302	0.00
38)	Chlordane {E					0.042			0.042	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

8PSTLVI2430.M Wed Apr 03 17:08:09 2024

10.10.32 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G8G2430-ICV2430
Lab FileID: 8G55365.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\DATA\G8G2430\8g55365.d\ECD1A.ch Vial: 41
Signal #2 : C:\msdchem\1\DATA\G8G2430\8g55365.d\ECD2B.ch
Acq On : 3 Apr 2024 9:13 am Operator: rebeccak
Sample : icv2430-2.5 (pest mix) Inst : GC8G
Misc : op53462,g8g2430,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\METHODS\8PSTLVI2430a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 03 10:35:10 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	112	0.00	3.96- 4.96
2	SAB	Tetrachloro-m-xylene	1.042	0.983	5.7	112	0.00	5.05- 5.11
3		hexachlorobenzene	1.684	1.692	-0.5	118	0.00	5.37- 5.43
4	A	alpha-BHC	1.230	1.429	-16.2	122	0.00	5.50- 5.56
5	MA	gamma-BHC	1.427	1.294	9.3	104	0.00	5.78- 5.84
6	MA	Heptachlor	1.416	1.186	16.2	99	0.00	6.24- 6.30
7	B	beta-BHC	0.680	0.581	14.6	101	0.01	5.87- 5.93
8	B	delta-BHC	1.257	1.208	3.9	112	0.01	6.04- 6.10
9	MB	Aldrin	1.291	1.137	11.9	103	0.00	6.55- 6.61
10		alachlor	0.186	0.167	10.2	100	0.00	6.70- 6.76
11	B	Heptachlor Epoxide	1.111	0.991	10.8	103	0.00	7.22- 7.28
12	B	gamma-Chlordane	1.312	1.118	14.8	99	0.00	7.37- 7.43
13	B	alpha-Chlordane	1.235	1.096	11.3	105	0.00	7.53- 7.59
14	A	Endosulfan I	1.196	1.057	11.6	105	0.00	7.69- 7.75
15	B	4,4'-DDE	1.183	1.040	12.1	103	0.00	7.65- 7.71
16	MA	Dieldrin	1.280	1.122	12.3	104	0.00	8.00- 8.06
17	MA	Endrin	1.142	1.034	9.5	106	0.00	8.30- 8.36
18	A	4,4'-DDD	0.866	0.954	-10.2	124	0.00	8.43- 8.49
19	B	Endosulfan II	1.098	1.053	4.1	113	0.00	8.61- 8.67
20	MA	4,4'-DDT	0.981	0.812	17.2	98	0.00	8.83- 8.88
		---------- True	Calc.	% Drift	----------			
21	B	Endrin Aldehyde	2.500	2.602	-4.1	116	0.00	9.20- 9.26
		---------- AvgRF	CCRF	% Dev	----------			
22	B	Endosulfan Sulfate	0.987	0.929	5.9	109	0.00	9.85- 9.91
23	A	Methoxychlor	0.558	0.507	9.1	107	0.00	9.59- 9.65
24		Mirex	0.947	0.966	-2.0	120	0.00	9.71- 9.77
25	B	Endrin Ketone	1.171	1.096	6.4	108	0.00	10.27-10.33
26	SA	Decachlorobiphenyl	1.124	1.080	3.9	110	0.00	12.04-12.10
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	112	0.00	3.96- 4.96
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	112	0.00	3.96- 4.96
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					

Initial Calibration Verification

Job Number: JD91339 **Sample:** G8G2430-ICV2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G55365.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

36		Chlordane {C}			----------NA----------				
37		Chlordane {D}			----------NA----------				
38		Chlordane {E}			----------NA----------				
*****		Signal #2 *****							
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	4.43- 5.43	
2	SAB	Tetrachloro-m-xylene	1.471	1.449	1.5	110	0.00	5.73- 5.79	
3		hexachlorobenzene	1.573	1.693	-7.6	120	0.00	6.22- 6.28	
4	A	alpha-BHC	2.096	1.977	5.7	104	0.00	6.38- 6.44	
5	MA	gamma-BHC	1.844	1.765	4.3	105	0.00	6.79- 6.85	
6	MA	Heptachlor	1.606	1.527	4.9	106	0.00	7.35- 7.41	
7	B	beta-BHC	0.856	0.868	-1.4	113	0.00	6.89- 6.95	
8	B	delta-BHC	1.548	1.483	4.2	107	0.00	7.26- 7.32	
9	MB	Aldrin	1.721	1.636	4.9	105	0.00	7.79- 7.85	
			True	Calc.	% Drift				
10		alachlor	2.500	2.414	3.4	105	0.00	7.61- 7.67	
			AvgRF	CCRF	% Dev				
11	B	Heptachlor Epoxide	1.589	1.488	6.4	104	0.00	8.59- 8.65	
12	B	gamma-Chlordane	1.601	1.541	3.7	105	0.00	8.87- 8.93	
13	B	alpha-Chlordane	1.478	1.377	6.8	104	0.00	9.09- 9.15	
14	A	Endosulfan I	1.442	1.377	4.5	106	0.00	9.18- 9.24	
15	B	4,4'-DDE	1.524	1.433	6.0	104	0.00	9.36- 9.42	
16	MA	Dieldrin	1.625	1.522	6.3	105	0.00	9.61- 9.67	
17	MA	Endrin	1.272	1.207	5.1	104	0.00	10.10-10.16	
18	A	4,4'-DDD	1.263	1.205	4.6	104	0.00	10.29-10.35	
19	B	Endosulfan II	1.328	1.284	3.3	106	0.00	10.45-10.51	
20	MA	4,4'-DDT	0.913	0.826	9.5	97	0.00	10.81-10.87	
21	B	Endrin Aldehyde	0.947	0.986	-4.1	114	0.00	11.01-11.07	
22	B	Endosulfan Sulfate	1.200	1.133	5.6	105	0.00	11.47-11.53	
23	A	Methoxychlor	0.408	0.418	-2.5	106	0.00	12.04-12.10	
24		Mirex	0.967	1.017	-5.2	121	0.00	12.35-12.41	
25	B	Endrin Ketone	1.284	1.247	2.9	107	0.00	12.42-12.48	
26	SA	Decachlorobiphenyl	0.697	0.711	-2.0	113	0.00	14.22-14.28	
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	4.43- 5.43	
28	L8	Toxaphene{A}			----------NA----------				
29	L8	Toxaphene{B}			----------NA----------				
30	L8	Toxaphene{C}			----------NA----------				
31	L8	Toxaphene{D}			----------NA----------				
32	L8	Toxaphene{E}			----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	4.43- 5.43	
34		Chlordane {A}			----------NA----------				
35		Chlordane {B}			----------NA----------				
36		Chlordane {C}			----------NA----------				
37		Chlordane {D}			----------NA----------				
38		Chlordane {E}			----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8g55359.d 8PSTLVI2430a.M Wed Apr 03 10:39:16 2024

10.10.33 10

Initial Calibration Verification

Job Number: JD91339 **Sample:** G8G2430-ICV2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G55366.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\DATA\G8G2430\8g55366.d\ECD1A.ch Vial: 42
Signal #2 : C:\msdchem\1\DATA\G8G2430\8g55366.d\ECD2B.ch
Acq On : 3 Apr 2024 9:35 am Operator: rebeccak
Sample : icv2430-50 (chlordane) Inst : GC8G
Misc : op53462,g8g2430,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\METHODS\8PSTLVI2430a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 03 10:35:10 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	112	0.00	3.96- 4.96
2	SAB	Tetrachloro-m-xylene	1.042	0.966	7.3	108	0.00	5.04- 5.10
3		hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
		---------- True	Calc.	% Drift ----------				
21	B	Endrin Aldehyde		----------NA----------				
		---------- AvgRF	CCRF	% Dev ----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	1.124	1.011	10.1	107	0.00	12.04-12.10
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	0.00	3.96- 4.96
28	L8	Toxaphene{A}		----------NA----------				
29	L8	Toxaphene{B}		----------NA----------				
30	L8	Toxaphene{C}		----------NA----------				
31	L8	Toxaphene{D}		----------NA----------				
32	L8	Toxaphene{E}		----------NA----------				
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	3.96- 4.96
34		Chlordane {A}	0.067	0.061	9.0	90	0.00	6.17- 6.37
35		Chlordane {B}	0.045	0.041	8.9	90	0.00	6.62- 6.82

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G8G2430-ICV2430
Lab FileID: 8G55366.D

36		Chlordane {C}	0.147	0.134	8.8	89	0.00	7.30- 7.50
37		Chlordane {D}	0.230	0.212	7.8	91	0.00	7.45- 7.65
38		Chlordane {E}	0.033	0.032	3.0	96	0.00	8.44- 8.64
*****		Signal #2 *****						
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	107	0.00	4.43- 5.43
2	SAB	Tetrachloro-m-xylene	1.471	1.317	10.5	97	0.00	5.72- 5.78
3		hexachlorobenzene	----------NA----------					
4	A	alpha-BHC	----------NA----------					
5	MA	gamma-BHC	----------NA----------					
6	MA	Heptachlor	----------NA----------					
7	B	beta-BHC	----------NA----------					
8	B	delta-BHC	----------NA----------					
9	MB	Aldrin	----------NA----------					
		---------- True Calc. % Drift ----------						
10		alachlor	----------NA----------					
		---------- AvgRF CCRF % Dev ----------						
11	B	Heptachlor Epoxide	----------NA----------					
12	B	gamma-Chlordane	----------NA----------					
13	B	alpha-Chlordane	----------NA----------					
14	A	Endosulfan I	----------NA----------					
15	B	4,4'-DDE	----------NA----------					
16	MA	Dieldrin	----------NA----------					
17	MA	Endrin	----------NA----------					
18	A	4,4'-DDD	----------NA----------					
19	B	Endosulfan II	----------NA----------					
20	MA	4,4'-DDT	----------NA----------					
21	B	Endrin Aldehyde	----------NA----------					
22	B	Endosulfan Sulfate	----------NA----------					
23	A	Methoxychlor	----------NA----------					
24		Mirex	----------NA----------					
25	B	Endrin Ketone	----------NA----------					
26	SA	Decachlorobiphenyl	0.697	0.681	2.3	109	0.00	14.21-14.27
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	102	0.00	4.43- 5.43
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	4.43- 5.43
34		Chlordane {A}	0.089	0.077	13.5	86	0.00	7.28- 7.48
35		Chlordane {B}	0.055	0.049	10.9	89	0.00	7.91- 8.11
36		Chlordane {C}	0.185	0.166	10.3	90	0.00	8.80- 9.00
37		Chlordane {D}	0.302	0.273	9.6	91	0.00	9.02- 9.22
38		Chlordane {E}	0.042	0.038	9.5	92	0.00	10.45-10.65

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8g55364.d 8PSTLVI2430a.M Wed Apr 03 10:39:37 2024

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: G8G2430-ICV2430
Lab FileID: 8G55367.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\DATA\G8G2430\8g55367.d\ECD1A.ch Vial: 43
Signal #2 : C:\msdchem\1\DATA\G8G2430\8g55367.d\ECD2B.ch
Acq On : 3 Apr 2024 9:57 am Operator: rebeccak
Sample : icv2430-50 (toxaphene) Inst : GC8G
Misc : op53462,g8g2430,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\METHODS\8PSTLVI2430a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 03 10:35:10 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	113	0.00	3.96- 4.96
2	SAB	Tetrachloro-m-xylene	1.042	1.014	2.7	115	0.00	5.04- 5.10
3		hexachlorobenzene		----------NA----------				
4	A	alpha-BHC		----------NA----------				
5	MA	gamma-BHC		----------NA----------				
6	MA	Heptachlor		----------NA----------				
7	B	beta-BHC		----------NA----------				
8	B	delta-BHC		----------NA----------				
9	MB	Aldrin		----------NA----------				
10		alachlor		----------NA----------				
11	B	Heptachlor Epoxide		----------NA----------				
12	B	gamma-Chlordane		----------NA----------				
13	B	alpha-Chlordane		----------NA----------				
14	A	Endosulfan I		----------NA----------				
15	B	4,4'-DDE		----------NA----------				
16	MA	Dieldrin		----------NA----------				
17	MA	Endrin		----------NA----------				
18	A	4,4'-DDD		----------NA----------				
19	B	Endosulfan II		----------NA----------				
20	MA	4,4'-DDT		----------NA----------				
		---------- True	Calc.	% Drift ----------				
21	B	Endrin Aldehyde		----------NA----------				
		---------- AvgRF	CCRF	% Dev ----------				
22	B	Endosulfan Sulfate		----------NA----------				
23	A	Methoxychlor		----------NA----------				
24		Mirex		----------NA----------				
25	B	Endrin Ketone		----------NA----------				
26	SA	Decachlorobiphenyl	1.124	1.023	9.0	110	0.00	12.04-12.10
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	3.96- 4.96
28	L8	Toxaphene{A}	0.006	0.006	0.0	99	0.00	7.42- 7.62
29	L8	Toxaphene{B}	0.010	0.010	0.0	102	0.00	8.05- 8.25
30	L8	Toxaphene{C}	0.011	0.016	-45.5#	149	0.00	9.01- 9.21
31	L8	Toxaphene{D}	0.012	0.014	-16.7	121	0.00	9.32- 9.52
32	L8	Toxaphene{E}	0.026	0.023	11.5	94	0.00	9.62- 9.82
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	3.96- 4.96
34		Chlordane {A}		----------NA----------				
35		Chlordane {B}		----------NA----------				

Initial Calibration Verification

Job Number: JD91339 **Sample:** G8G2430-ICV2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G55367.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

36		Chlordane {C}			----------NA----------				
37		Chlordane {D}			----------NA----------				
38		Chlordane {E}			----------NA----------				
*****		Signal #2 *****							
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	4.43- 5.43	
2	SAB	Tetrachloro-m-xylene	1.471	1.470	0.1	106	0.00	5.73- 5.79	
3		hexachlorobenzene			----------NA----------				
4	A	alpha-BHC			----------NA----------				
5	MA	gamma-BHC			----------NA----------				
6	MA	Heptachlor			----------NA----------				
7	B	beta-BHC			----------NA----------				
8	B	delta-BHC			----------NA----------				
9	MB	Aldrin			----------NA----------				
		---------- True		Calc.	% Drift ----------				
10		alachlor			----------NA----------				
		---------- AvgRF		CCRF	% Dev ----------				
11	B	Heptachlor Epoxide			----------NA----------				
12	B	gamma-Chlordane			----------NA----------				
13	B	alpha-Chlordane			----------NA----------				
14	A	Endosulfan I			----------NA----------				
15	B	4,4'-DDE			----------NA----------				
16	MA	Dieldrin			----------NA----------				
17	MA	Endrin			----------NA----------				
18	A	4,4'-DDD			----------NA----------				
19	B	Endosulfan II			----------NA----------				
20	MA	4,4'-DDT			----------NA----------				
21	B	Endrin Aldehyde			----------NA----------				
22	B	Endosulfan Sulfate			----------NA----------				
23	A	Methoxychlor			----------NA----------				
24		Mirex			----------NA----------				
25	B	Endrin Ketone			----------NA----------				
26	SA	Decachlorobiphenyl	0.697	0.711	-2.0	112	0.00	14.21-14.27	
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	4.43- 5.43	
28	L8	Toxaphene{A}	0.009	0.010	-11.1	123	0.00	9.68- 9.88	
29	L8	Toxaphene{B}	0.032	0.047	-46.9#	147	0.00	10.51-10.71	
30	L8	Toxaphene{C}	0.008	0.007	12.5	83	0.00	10.64-10.84	
31	L8	Toxaphene{D}	0.023	0.025	-8.7	108	0.00	10.95-11.15	
32	L8	Toxaphene{E}	0.025	0.026	-4.0	105	0.00	11.83-12.03	
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	4.43- 5.43	
34		Chlordane {A}			----------NA----------				
35		Chlordane {B}			----------NA----------				
36		Chlordane {C}			----------NA----------				
37		Chlordane {D}			----------NA----------				
38		Chlordane {E}			----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8g55364.d 8PSTLVI2430a.M Wed Apr 03 10:39:39 2024

Continuing Calibration Summary

Job Number: JD91339 **Sample:** G8G2531-CC2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G57860.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\sh...31\8g57860.d\ECD1A.ch Vial: 4
Signal #2 : C:\msdchem\1\data\shahan...8G2531\8g57860.d\ECD2B.ch
Acq On : 3 Jul 2024 5:30 pm Operator: mahalial
Sample : cc2430-5 Inst : GC8G
Misc : op55035,g8g2531,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...1\8PSTLVI2430a.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Thu Jul 04 05:58:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	120	0.00	3.75- 4.75
2	SAB	Tetrachloro-m-xylene	1.042	1.065	-2.2	128	0.00	4.80- 4.86
3		hexachlorobenzene	1.684	1.587	5.8	120	0.00	5.09- 5.15
4	A	alpha-BHC	1.230	1.672	-35.9#	135	0.00	5.22- 5.28
5	MA	gamma-BHC	1.427	1.454	-1.9	120	0.00	5.47- 5.53
6	MA	Heptachlor	1.416	1.151	18.7	103	0.00	5.89- 5.95
7	B	beta-BHC	0.680	0.594	12.6	112	0.00	5.55- 5.61
8	B	delta-BHC	1.257	1.389	-10.5	130	0.00	5.70- 5.76
9	MB	Aldrin	1.291	1.333	-3.3	126	0.00	6.18- 6.24
10		alachlor	0.186	0.176	5.4	122	0.00	6.33- 6.39
11	B	Heptachlor Epoxide	1.111	1.205	-8.5	136	0.00	6.80- 6.86
12	B	gamma-Chlordane	1.312	1.220	7.0	115	0.00	6.94- 7.00
13	B	alpha-Chlordane	1.235	1.194	3.3	120	0.00	7.09- 7.15
14	A	Endosulfan I	1.196	1.180	1.3	122	0.00	7.24- 7.30
15	B	4,4'-DDE	1.183	1.133	4.2	118	0.00	7.21- 7.27
16	MA	Dieldrin	1.280	1.223	4.5	120	0.00	7.53- 7.59
17	MA	Endrin	1.142	1.017	10.9	111	0.00	7.82- 7.88
18	A	4,4'-DDD	0.866	0.978	-12.9	127	0.00	7.95- 8.01
19	B	Endosulfan II	1.098	1.069	2.6	122	0.00	8.11- 8.17
20	MA	4,4'-DDT	0.981	0.785	20.0	102	0.00	8.33- 8.39
		---------- True	Calc.	% Drift	----------			
21	B	Endrin Aldehyde	5.000	4.859	2.8	118	0.00	8.68- 8.74
		---------- AvgRF	CCRF	% Dev	----------			
22	B	Endosulfan Sulfate	0.987	0.963	2.4	122	0.00	9.31- 9.37
23	A	Methoxychlor	0.558	0.447	19.9	99	0.00	9.08- 9.14
24		Mirex	0.947	0.862	9.0	123	0.00	9.16- 9.22
25	B	Endrin Ketone	1.171	1.150	1.8	121	0.00	9.71- 9.77
26	SA	Decachlorobiphenyl	1.124	1.007	10.4	115	0.00	11.46-11.52
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	110	0.00	3.75- 4.75
28	L8	Toxaphene{A}	----------NA----------					
29	L8	Toxaphene{B}	----------NA----------					
30	L8	Toxaphene{C}	----------NA----------					
31	L8	Toxaphene{D}	----------NA----------					
32	L8	Toxaphene{E}	----------NA----------					
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	3.75- 4.75
34		Chlordane {A}	----------NA----------					
35		Chlordane {B}	----------NA----------					

Continuing Calibration Summary

Job Number: JD91339 **Sample:** G8G2531-CC2430
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 8G57860.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

36		Chlordane {C}			----------NA----------			
37		Chlordane {D}			----------NA----------			
38		Chlordane {E}			----------NA----------			
*****		Signal #2 *****						
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	55	0.00	4.16- 5.16
2	SAB	Tetrachloro-m-xylene	1.471	1.590	-8.1	60	0.00	5.39- 5.45
3		hexachlorobenzene	1.573	1.543	1.9	58	0.00	5.85- 5.91
4	A	alpha-BHC	2.096	2.150	-2.6	58	0.00	5.99- 6.05
5	MA	gamma-BHC	1.844	1.852	-0.4	56	0.00	6.37- 6.43
6	MA	Heptachlor	1.606	1.404	12.6	49#	0.00	6.88- 6.94
7	B	beta-BHC	0.856	0.787	8.1	53	0.00	6.45- 6.51
8	B	delta-BHC	1.548	1.717	-10.9	65	0.00	6.80- 6.86
9	MB	Aldrin	1.721	1.795	-4.3	60	0.00	7.28- 7.34
			True	Calc.	% Drift			
10		alachlor	5.000	5.288	-5.8	57	0.00	7.14- 7.20
			AvgRF	CCRF	% Dev			
11	B	Heptachlor Epoxide	1.589	1.634	-2.8	59	0.00	8.04- 8.10
12	B	gamma-Chlordane	1.601	1.795	-12.1	63	0.00	8.30- 8.36
13	B	alpha-Chlordane	1.478	1.722	-16.5	68	0.00	8.51- 8.57
14	A	Endosulfan I	1.442	1.547	-7.3	62	0.00	8.60- 8.66
15	B	4,4'-DDE	1.524	1.529	-0.3	57	0.00	8.78- 8.84
16	MA	Dieldrin	1.625	1.748	-7.6	62	0.00	9.00- 9.06
17	MA	Endrin	1.272	1.353	-6.4	62	0.00	9.47- 9.53
18	A	4,4'-DDD	1.263	1.246	1.3	57	0.00	9.68- 9.74
19	B	Endosulfan II	1.328	1.476	-11.1	64	0.00	9.81- 9.87
20	MA	4,4'-DDT	0.913	0.943	-3.3	58	0.00	10.19-10.25
21	B	Endrin Aldehyde	0.947	1.111	-17.3	68	0.00	10.36-10.42
22	B	Endosulfan Sulfate	1.200	1.307	-8.9	63	0.00	10.81-10.87
23	A	Methoxychlor	0.408	0.501	-22.8#	62	0.00	11.40-11.46
24		Mirex	0.967	1.079	-11.6	67	0.00	11.65-11.71
25	B	Endrin Ketone	1.284	1.513	-17.8	67	0.00	11.72-11.78
26	SA	Decachlorobiphenyl	0.697	1.037	-48.8#	85	0.00	13.73-13.79
27	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	52	0.00	4.16- 5.16
28	L8	Toxaphene{A}			----------NA----------			
29	L8	Toxaphene{B}			----------NA----------			
30	L8	Toxaphene{C}			----------NA----------			
31	L8	Toxaphene{D}			----------NA----------			
32	L8	Toxaphene{E}			----------NA----------			
33	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	51	0.00	4.16- 5.16
34		Chlordane {A}			----------NA----------			
35		Chlordane {B}			----------NA----------			
36		Chlordane {C}			----------NA----------			
37		Chlordane {D}			----------NA----------			
38		Chlordane {E}			----------NA----------			

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8g57860.d 8PSTLVI2430a.M Thu Jul 04 06:02:37 2024

Initial Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICC343
Lab FileID: RL15612.D

Response Factor Report GCRL

Method : C:\msdchem\1\met...pcblvigcrl343a.m (ChemStation Integrator)
Title :
Last Update : Mon Apr 29 20:33:49 2024
Response via : Initial Calibration

Calibration Files
50 =RL15608.D 250 =RL15610.D 500 =RL15611.D 1000=RL15612.D
2000=RL15613.D 3000=RL15614.D 5000=RL15615.D 10k =RL15616.D
20k =RL15617.D 100 =RL15609.D = =

Compound	50	250	500	1000	2000	3000	5000	10k	20k	100	Avg	%RSD
1) Tetrachloro-m-xylene	2.139	2.110	2.322	2.087	2.120	2.227				2.252	2.180 E8	4.03
2) AR1221-A			1.641								1.641 E6	0.00
3) AR1221-B			2.317								2.317 E6	0.00
4) AR1221-C			6.262								6.262 E6	0.00
5) AR1221-D			1.131								1.131 E6	0.00
6) AR1221-E			1.465								1.465 E6	0.00
7) AR1232-A			5.322								5.322 E6	0.00
8) AR1232-B			3.540								3.540 E6	0.00
9) AR1232-C			7.399								7.399 E6	0.00
10) AR1232-D			2.880								2.880 E6	0.00
11) AR1232-E			2.597								2.597 E6	0.00
12) AR1242-A			6.180								6.180 E6	0.00
13) AR1242-B			1.312								1.312 E7	0.00
14) AR1242-C			5.235								5.235 E6	0.00
15) AR1242-D			3.954								3.954 E6	0.00
16) AR1242-E			4.474								4.474 E6	0.00
17) AR1248-A			2.776								2.776 E6	0.00
18) AR1248-B			7.946								7.946 E6	0.00
19) AR1248-C			4.769								4.769 E6	0.00
20) AR1248-D			4.198								4.198 E6	0.00
21) AR1248-E			3.757								3.757 E6	0.00
22) AR1248-F			7.422								7.422 E6	0.00
23) AR1248-G												

				6.237							6.237 E6	0.00	
24)	AR1254-A												
				6.642							6.642 E6	0.00	
25)	AR1254-B												
				1.204							1.204 E7	0.00	
26)	AR1254-C												
				7.173							7.173 E6	0.00	
27)	AR1254-D												
				1.260							1.260 E7	0.00	
28)	AR1254-E												
				9.726							9.726 E6	0.00	
29)	AR1254-F												
				9.137							9.137 E6	0.00	
30)	AR1254-G												
				1.279							1.279 E7	0.00	
31)	AR1262-A												
				1.078							1.078 E7	0.00	
32)	AR1262-B												
				1.456							1.456 E7	0.00	
33)	AR1262-C												
				1.174							1.174 E7	0.00	
34)	AR1262-D												
				2.751							2.751 E7	0.00	
35)	AR1262-E												
				2.864							2.864 E7	0.00	
36)	AR1268-A												
				3.105							3.105 E7	0.00	
37)	AR1268-B												
				2.879							2.879 E7	0.00	
38)	AR1268-C												
				2.302							2.302 E7	0.00	
39)	AR1268-D												
				9.768							9.768 E6	0.00	
40)	AR1268-E												
				6.918							6.918 E7	0.00	
41)	AR1016-A												
	4.264	4.052	3.744	3.880	3.424	3.438	3.573	3.699	3.495	4.711	3.828 E6	10.80	
42)	AR1016-B												
	8.012	8.027	7.569	7.887	6.941	6.955	7.234	7.507	7.111	8.873	7.612 E6	7.94	
43)	AR1016-C												
	1.671	1.698	1.614	1.713	1.509	1.518	1.586	1.658	1.586	1.903	1.646 E7	6.94	
44)	AR1016-D												
	7.944	6.959	6.556	6.826	6.256	6.046	6.297	6.488	6.367	8.285	6.802 E6	10.96	
45)	AR1016-E												
	7.183	7.055	6.683	7.023	6.247	6.281	6.608	6.780	6.353	8.003	6.822 E6	7.77	
46)	AR1260-A												
	1.550	1.561	1.488	1.566	1.385	1.390	1.449	1.508	1.435	1.726	1.506 E7	6.78	
47)	AR1260-B												
	1.037	1.060	1.003	1.069	0.891	0.952	1.001	1.041	0.990	1.093	1.014 E7	5.92	
48)	AR1260-C												
	0.881	0.930	0.903	0.968	0.866	0.872	0.917	0.938	0.911	1.003	0.919 E7	4.68	
49)	AR1260-D												
	2.054	2.211	2.146	2.310	2.071	2.102	2.235	2.420	1.937	2.331	2.182 E7	6.76	
50)	AR1260-E												
	2.185	2.223	2.157	2.310	2.063	2.103	2.217	2.340	2.242	2.487	2.233 E7	5.51	
51)	Decachlorobiphenyl												
		1.518	1.423	1.487	1.304	1.305	1.348			1.891	1.468 E8	13.95	

Signal #2

Initial Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICC343
Lab FileID: RL15612.D

1)	Tetrachloro-m-xylene								
		1.432	1.438	1.583	1.457	1.489	1.585	1.556	1.506 E8	4.49
2)	AR1221-A									
				1.060					1.060 E6	0.00
3)	AR1221-B									
				1.579					1.579 E6	0.00
4)	AR1221-C									
				4.351					4.351 E6	0.00
5)	AR1221-D									
				1.191					1.191 E6	0.00
6)	AR1221-E									
				8.198					8.198 E5	0.00
7)	AR1232-A									
				3.082					3.082 E6	0.00
8)	AR1232-B									
				2.339					2.339 E6	0.00
9)	AR1232-C									
				5.146					5.146 E6	0.00
10)	AR1232-D									
				1.933					1.933 E6	0.00
11)	AR1232-E									
				1.391					1.391 E6	0.00
12)	AR1242-A									
				4.260					4.260 E6	0.00
13)	AR1242-B									
				9.860					9.860 E6	0.00
14)	AR1242-C									
				3.593					3.593 E6	0.00
15)	AR1242-D									
				2.942					2.942 E6	0.00
16)	AR1242-E									
				3.571					3.571 E6	0.00
17)	AR1248-A									
				1.891					1.891 E6	0.00
18)	AR1248-B									
				5.798					5.798 E6	0.00
19)	AR1248-C									
				3.608					3.608 E6	0.00
20)	AR1248-D									
				4.785					4.785 E6	0.00
21)	AR1248-E									
				4.347					4.347 E6	0.00
22)	AR1248-F									
				6.468					6.468 E6	0.00
23)	AR1248-G									
				5.895					5.895 E6	0.00
24)	AR1254-A									
				5.798					5.798 E6	0.00
25)	AR1254-B									
				6.898					6.898 E6	0.00
26)	AR1254-C									
				4.806					4.806 E6	0.00
27)	AR1254-D									
				1.073					1.073 E7	0.00
28)	AR1254-E									
				8.537					8.537 E6	0.00
29)	AR1254-F									
				7.764					7.764 E6	0.00
30)	AR1254-G									
				9.950					9.950 E6	0.00

Initial Calibration Summary

Job Number: JD91339 **Sample:** GRL343-ICC343
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RL15612.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

```
31)  AR1262-A
                          8.633                                    8.633 E6    0.00
32)  AR1262-B
                          1.263                                    1.263 E7    0.00
33)  AR1262-C
                          9.803                                    9.803 E6    0.00
34)  AR1262-D
                          2.086                                    2.086 E7    0.00
35)  AR1262-E
                          2.188                                    2.188 E7    0.00
36)  AR1268-A
                          2.505                                    2.505 E7    0.00
37)  AR1268-B
                          2.163                                    2.163 E7    0.00
38)  AR1268-C
                          1.756                                    1.756 E7    0.00
39)  AR1268-D
                          7.384                                    7.384 E6    0.00
40)  AR1268-E
                          5.255                                    5.255 E7    0.00
41)  AR1016-A
          2.500 2.653 2.466 2.718 2.435 2.415 2.535 2.669 2.520 2.758  2.567 E6    4.78
42)  AR1016-B
          4.939 5.348 5.178 5.544 4.994 5.065 5.318 5.556 5.239 5.925  5.310 E6    5.66
43)  AR1016-C
          1.213 1.246 1.238 1.323 1.185 1.199 1.255 1.310 1.237 1.398  1.260 E7    5.16
44)  AR1016-D
          4.490 4.690 4.535 4.847 4.345 4.391 4.610 4.804 4.526 4.872  4.611 E6    4.05
45)  AR1016-E
          3.380 3.849 3.611 3.855 3.487 3.533 3.711 3.861 3.621 4.388  3.730 E6    7.62
46)  AR1260-A
          1.178 1.093 1.060 1.153 1.037 1.049 1.109 1.171 1.114 1.134  1.110 E7    4.52
47)  AR1260-B
          7.479 8.433 8.327 8.973 8.105 8.209 8.683 9.199 8.775 9.381  8.556 E6    6.61
48)  AR1260-C
          9.074 8.085 7.765 8.360 7.593 7.713 8.190 8.700 8.293 8.928  8.270 E6    6.16
49)  AR1260-D
          1.838 1.863 1.828 1.946 1.754 1.786 1.907 2.045 1.742 2.012  1.872 E7    5.57
50)  AR1260-E
          1.700 1.687 1.727 1.795 1.610 1.634 1.734 1.855 1.787 1.888  1.742 E7    5.17
51)  Decachlorobiphenyl
                1.198 1.100 1.107 0.970 0.974 1.021            1.475  1.121 E8   15.71
-----------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          pcblvigcrl343a.m        Mon Apr 29 20:51:31 2024
```

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15618.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\grl343\RL15618.D\ECD1A.ch  Vial: 31
Signal #2 : C:\msdchem\1\data\grl343\RL15618.D\ECD2B.ch
Acq On    : 29 Apr 2024  05:04 am                    Operator: christp
Sample    : icv343-100                               Inst    : GCRL
Misc      : op54010,grl343,5.1,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\msdchem\1\met...pcblvigcrl343a.m (ChemStation Integrator)
Title        :
Last Update  : Mon Apr 29 20:33:49 2024
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	236.951 E6	-8.7	102	0.00	3.89- 3.95
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	3.828	3.613 E6	5.6	93	0.00	4.19- 4.25

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15618.D

42		AR1016-B	7.612	7.803	E6	-2.5	99	0.00	4.49- 4.55
43		AR1016-C	16.456	16.744	E6	-1.8	98	0.00	4.89- 4.95
44		AR1016-D	6.802	6.681	E6	1.8	98	0.00	5.01- 5.07
45		AR1016-E	6.822	6.675	E6	2.2	95	0.00	5.41- 5.48
46		AR1260-A	15.058	15.462	E6	-2.7	99	0.00	7.43- 7.49
47		AR1260-B	10.137	8.591	E6	15.3	80	0.00	7.92- 7.98
48		AR1260-C	9.189	7.846	E6	14.6	81	0.00	8.19- 8.26
49		AR1260-D	21.816	18.919	E6	13.3	82	0.00	8.53- 8.59
50		AR1260-E	22.328	18.020	E6	19.3	78	0.00	8.81- 8.87
51	S	Decachlorobiphenyl	146.814	166.157	E6	-13.2	112	0.00	9.79- 9.86
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	162.561	E6	-8.0	103	0.00	4.30- 4.36
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	2.567	2.488	E6	3.1	92	0.00	4.75- 4.81
42		AR1016-B	5.310	5.458	E6	-2.8	98	0.00	5.15- 5.21
43		AR1016-C	12.604	12.715	E6	-0.9	96	0.00	5.66- 5.72
44		AR1016-D	4.611	4.606	E6	0.1	95	0.00	5.83- 5.89
45		AR1016-E	3.730	3.693	E6	1.0	96	0.00	6.49- 6.55
46		AR1260-A	11.098	11.138	E6	-0.4	97	0.00	8.47- 8.53
47		AR1260-B	8.556	7.116	E6	16.8	79	0.00	8.94- 9.00

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15618.D

48		AR1260-C	8.270	6.984	E6	15.6	84	0.00	9.22- 9.28
49		AR1260-D	18.723	15.920	E6	15.0	82	0.00	9.44- 9.50
50		AR1260-E	17.416	13.882	E6	20.3#	77	0.00	9.76- 9.82
51	S	Decachlorobiphenyl	112.075	121.443	E6	-8.4	110	0.00	10.71-10.77

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL15612.D pcblvigcrl343a.m Mon Apr 29 20:50:16 2024

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15626.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\grl343\RL15626.D\ECD1A.ch Vial: 39
Signal #2 : C:\msdchem\1\data\grl343\RL15626.D\ECD2B.ch
Acq On : 29 Apr 2024 07:19 am Operator: christp
Sample : icv343-100 Inst : GCRL
Misc : op54010,grl343,5.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...pcblvigcrl343a.m (ChemStation Integrator)
Title :
Last Update : Mon Apr 29 13:50:45 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	217.958	224.922 E6	-3.2	97	0.00	3.89- 3.95
2	AR1221-A	1.641	1.412 E6	14.0	86	0.00	3.38- 3.58
3	AR1221-B	2.317	1.953 E6	15.7	84	0.00	3.96- 4.16
4	AR1221-C	6.262	4.929 E6	21.3#	79	0.00	4.12- 4.32
5	AR1221-D	1.131	0.985 E6	12.9	87	0.00	4.42- 4.62
6	AR1221-E	1.465	0.992 E6	32.3#	68	0.02	4.82- 5.02
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A		----------NA----------				

10.10.39 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15626.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	146.814	147.582 E6	-0.5	99	0.01	9.80-	9.87
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	147.554 E6	2.0	93	0.00	4.30-	4.36
2		AR1221-A	1.060	1.051 E6	0.8	99	0.00	3.89-	3.95
3		AR1221-B	1.579	1.332 E6	15.6	84	0.00	4.50-	4.70
4		AR1221-C	4.351	3.431 E6	21.1#	79	0.00	4.69-	4.89
5		AR1221-D	1.191	1.057 E6	11.3	89	0.00	5.14-	5.34
6		AR1221-E	819.844	710.372 E3	13.4	87	0.00	5.59-	5.79
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A			----------NA----------				
37		AR1268-B			----------NA----------				
38		AR1268-C			----------NA----------				
39		AR1268-D			----------NA----------				
40		AR1268-E			----------NA----------				
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15626.D

48		AR1260-C				----------NA----------			
49		AR1260-D				----------NA----------			
50		AR1260-E				----------NA----------			
51	S	Decachlorobiphenyl	112.075	109.264	E6	2.5	99	0.03	10.74-10.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL15612.D pcblvigcrl343a.m Mon Apr 29 13:55:20 2024

10.10.39 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15627.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\grl343\RL15627.D\ECD1A.ch Vial: 40
Signal #2 : C:\msdchem\1\data\grl343\RL15627.D\ECD2B.ch
Acq On : 29 Apr 2024 07:36 am Operator: christp
Sample : icv343-100 Inst : GCRL
Misc : op54010,grl343,5.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...pcblvigcrl343a.m (ChemStation Integrator)
Title :
Last Update : Mon Apr 29 13:50:45 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	207.971 E6	4.6	90	0.00	3.89- 3.95
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A	6.642	6.036 E6	9.1	91	0.00	5.77- 5.97
25		AR1254-B	12.041	10.927 E6	9.3	91	0.00	6.10- 6.30
26		AR1254-C	7.173	6.434 E6	10.3	90	0.00	6.50- 6.70
27		AR1254-D	12.604	11.295 E6	10.4	90	0.00	6.70- 6.90
28		AR1254-E	9.726	8.726 E6	10.3	90	0.00	7.11- 7.31
29		AR1254-F	9.137	8.417 E6	7.9	92	0.00	7.36- 7.56
30		AR1254-G	12.789	11.612 E6	9.2	91	0.00	7.72- 7.92
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15627.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	146.814	148.244 E6	-1.0	100	0.02	9.80-	9.87
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	144.871 E6	3.8	92	0.00	4.30-	4.36
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A	5.798	5.237 E6	9.7	90	0.00	7.10-	7.30
25		AR1254-B	6.898	6.165 E6	10.6	89	0.00	7.35-	7.55
26		AR1254-C	4.806	4.237 E6	11.8	88	0.00	7.82-	8.02
27		AR1254-D	10.728	9.523 E6	11.2	89	0.00	7.97-	8.17
28		AR1254-E	8.537	7.428 E6	13.0	87	0.00	8.22-	8.42
29		AR1254-F	7.764	6.934 E6	10.7	89	0.00	8.59-	8.79
30		AR1254-G	9.950	8.973 E6	9.8	90	0.00	8.79-	8.99
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A			----------NA----------				
37		AR1268-B			----------NA----------				
38		AR1268-C			----------NA----------				
39		AR1268-D			----------NA----------				
40		AR1268-E			----------NA----------				
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15627.D

48		AR1260-C				----------NA----------			
49		AR1260-D				----------NA----------			
50		AR1260-E				----------NA----------			
51	S	Decachlorobiphenyl	112.075	105.258	E6	6.1	95	0.03	10.74-10.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL15612.D pcblvigcrl343a.m Mon Apr 29 13:55:33 2024

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15628.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\grl343\RL15628.D\ECD1A.ch Vial: 41
Signal #2 : C:\msdchem\1\data\grl343\RL15628.D\ECD2B.ch
Acq On : 29 Apr 2024 07:53 am Operator: christp
Sample : icv343-100 Inst : GCRL
Misc : op54010,grl343,5.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...pcblvigcrl343a.m (ChemStation Integrator)
Title :
Last Update : Mon Apr 29 13:50:45 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	229.266 E6	-5.2	99	0.00	3.89- 3.95
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A	5.322	4.869 E6	8.5	91	0.00	4.12- 4.32
8		AR1232-B	3.540	3.315 E6	6.4	94	0.00	4.42- 4.62
9		AR1232-C	7.399	6.972 E6	5.8	94	0.00	4.82- 5.02
10		AR1232-D	2.880	2.615 E6	9.2	91	0.00	4.94- 5.14
11		AR1232-E	2.597	2.463 E6	5.2	95	0.00	5.34- 5.54
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15628.D

42		AR1016-B		----------NA----------					
43		AR1016-C		----------NA----------					
44		AR1016-D		----------NA----------					
45		AR1016-E		----------NA----------					
46		AR1260-A		----------NA----------					
47		AR1260-B		----------NA----------					
48		AR1260-C		----------NA----------					
49		AR1260-D		----------NA----------					
50		AR1260-E		----------NA----------					
51	S	Decachlorobiphenyl	146.814	155.056 E6	-5.6	104	0.02	9.80-	9.87
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	151.869 E6	-0.9	96	0.00	4.30-	4.36
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A	3.082	2.860 E6	7.2	93	0.00	4.69-	4.89
8		AR1232-B	2.339	2.165 E6	7.4	93	0.00	5.08-	5.28
9		AR1232-C	5.146	4.816 E6	6.4	94	0.00	5.59-	5.79
10		AR1232-D	1.933	1.798 E6	7.0	93	0.00	5.76-	5.96
11		AR1232-E	1.391	1.315 E6	5.5	95	0.00	6.42-	6.62
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A		----------NA----------					
42		AR1016-B		----------NA----------					
43		AR1016-C		----------NA----------					
44		AR1016-D		----------NA----------					
45		AR1016-E		----------NA----------					
46		AR1260-A		----------NA----------					
47		AR1260-B		----------NA----------					

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15628.D

48		AR1260-C				----------NA----------			
49		AR1260-D				----------NA----------			
50		AR1260-E				----------NA----------			
51	S	Decachlorobiphenyl	112.075	110.882	E6	1.1	100	0.03	10.74-10.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL15612.D pcblvigcrl343a.m Mon Apr 29 20:29:52 2024

10.10.41 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15629.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\grl343\RL15629.D\ECD1A.ch Vial: 42
Signal #2 : C:\msdchem\1\data\grl343\RL15629.D\ECD2B.ch
Acq On : 29 Apr 2024 08:09 am Operator: christp
Sample : icv343-100 Inst : GCRL
Misc : op54010,grl343,5.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...pcblvigcrl343a.m (ChemStation Integrator)
Title :
Last Update : Mon Apr 29 13:50:45 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	217.149 E6	0.4	94	0.00	3.89- 3.95
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A	10.783	10.068 E6	6.6	93	0.00	7.36- 7.56
32		AR1262-B	14.564	13.662 E6	6.2	94	0.00	7.85- 8.05
33		AR1262-C	11.738	10.889 E6	7.2	93	0.00	8.13- 8.33
34		AR1262-D	27.514	25.377 E6	7.8	92	0.00	8.47- 8.67
35		AR1262-E	28.639	26.203 E6	8.5	91	0.00	8.78- 8.98
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				

10.10.42

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15629.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	146.814	153.160 E6	-4.3	103	0.02	9.80-	9.87
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	149.247 E6	0.9	94	0.00	4.30-	4.36
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1262-A	8.633	7.998 E6	7.4	93	0.00	8.41-	8.61
32		AR1262-B	12.634	11.620 E6	8.0	92	0.00	8.87-	9.07
33		AR1262-C	9.803	9.015 E6	8.0	92	0.00	9.16-	9.36
34		AR1262-D	20.859	19.212 E6	7.9	92	0.00	9.37-	9.57
35		AR1262-E	21.880	20.082 E6	8.2	92	0.00	9.69-	9.89
36		AR1268-A			----------NA----------				
37		AR1268-B			----------NA----------				
38		AR1268-C			----------NA----------				
39		AR1268-D			----------NA----------				
40		AR1268-E			----------NA----------				
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15629.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	112.075	109.750 E6	2.1	99	0.04	10.75-10.81

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL15612.D pcblvigcrl343a.m Mon Apr 29 20:30:05 2024

10.10.42 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15630.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\grl343\RL15630.D\ECD1A.ch Vial: 43
Signal #2 : C:\msdchem\1\data\grl343\RL15630.D\ECD2B.ch
Acq On : 29 Apr 2024 08:26 am Operator: christp
Sample : icv343-100 Inst : GCRL
Misc : op54010,grl343,5.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...pcblvigcrl343a.m (ChemStation Integrator)
Title :
Last Update : Mon Apr 29 13:50:45 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	218.912 E6	-0.4	94	0.00	3.89- 3.95
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A	31.053	26.552 E6	14.5	86	0.00	8.79- 8.99
37		AR1268-B	28.786	24.863 E6	13.6	86	0.00	8.82- 9.02
38		AR1268-C	23.018	20.032 E6	13.0	87	0.00	9.01- 9.21
39		AR1268-D	9.768	8.395 E6	14.1	86	0.00	9.33- 9.53
40		AR1268-E	69.176	60.070 E6	13.2	87	0.00	9.58- 9.78
41		AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15630.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	146.814	429.090 E6	-192.3#	289#	0.02	9.81- 9.88	
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	153.003 E6	-1.6	97	0.00	4.30- 4.36	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A	25.048	21.758 E6	13.1	87	0.00	9.69- 9.89	
37		AR1268-B	21.634	18.745 E6	13.4	87	0.00	9.73- 9.93	
38		AR1268-C	17.559	15.352 E6	12.6	87	0.00	9.96-10.16	
39		AR1268-D	7.384	6.249 E6	15.4	85	0.01	10.17-10.37	
40		AR1268-E	52.548	45.318 E6	13.8	86	0.02	10.45-10.65	
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15630.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	112.075	306.588 E6	-173.6#	277#	0.04	10.75-10.81

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL15612.D pcblvigcrl343a.m Mon Apr 29 13:56:01 2024

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15631.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\grl343\RL15631.D\ECD1A.ch Vial: 44
Signal #2 : C:\msdchem\1\data\grl343\RL15631.D\ECD2B.ch
Acq On : 29 Apr 2024 08:43 am Operator: christp
Sample : icv343-100 Inst : GCRL
Misc : op54010,grl343,5.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...pcblvigcrl343a.m (ChemStation Integrator)
Title :
Last Update : Mon Apr 29 13:50:45 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	223.837 E6	-2.7	96	0.00	3.89- 3.95
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A	6.180	6.438 E6	-4.2	104	0.00	4.42- 4.62
13		AR1242-B	13.119	13.536 E6	-3.2	103	0.00	4.82- 5.02
14		AR1242-C	5.235	5.307 E6	-1.4	101	0.00	4.94- 5.14
15		AR1242-D	3.954	4.029 E6	-1.9	102	0.00	5.35- 5.55
16		AR1242-E	4.474	4.356 E6	2.6	97	0.00	5.86- 6.06
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15631.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	146.814	152.328 E6	-3.8	102	0.02	9.81-	9.88
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	150.998 E6	-0.3	95	0.00	4.30-	4.36
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A	4.260	4.426 E6	-3.9	104	0.00	5.08-	5.28
13		AR1242-B	9.860	10.149 E6	-2.9	103	0.00	5.59-	5.79
14		AR1242-C	3.593	3.693 E6	-2.8	103	0.00	5.76-	5.96
15		AR1242-D	2.942	2.981 E6	-1.3	101	0.00	6.42-	6.62
16		AR1242-E	3.571	3.478 E6	2.6	97	0.00	7.10-	7.30
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A			----------NA----------				
37		AR1268-B			----------NA----------				
38		AR1268-C			----------NA----------				
39		AR1268-D			----------NA----------				
40		AR1268-E			----------NA----------				
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15631.D

48		AR1260-C				----------NA----------			
49		AR1260-D				----------NA----------			
50		AR1260-E				----------NA----------			
51	S	Decachlorobiphenyl	112.075	111.816	E6	0.2	101	0.04	10.75-10.81

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL15612.D pcblvigcrl343a.m Mon Apr 29 13:56:14 2024

10.10.44 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15632.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\grl343\RL15632.D\ECD1A.ch Vial: 45
Signal #2 : C:\msdchem\1\data\grl343\RL15632.D\ECD2B.ch
Acq On : 29 Apr 2024 09:00 am Operator: christp
Sample : icv343-100 Inst : GCRL
Misc : op54010,grl343,5.1,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...pcblvigcrl343a.m (ChemStation Integrator)
Title :
Last Update : Mon Apr 29 13:50:45 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	216.108 E6	0.8	93	0.02	3.91- 3.97
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A	2.776	2.705 E6	2.6	97	0.02	4.43- 4.63
18		AR1248-B	7.946	7.670 E6	3.5	97	0.02	4.84- 5.04
19		AR1248-C	4.769	4.594 E6	3.7	96	0.02	5.13- 5.33
20		AR1248-D	4.198	4.080 E6	2.8	97	0.02	5.45- 5.65
21		AR1248-E	3.757	3.633 E6	3.3	97	0.02	5.74- 5.94
22		AR1248-F	7.422	7.239 E6	2.5	98	0.01	5.88- 6.08
23		AR1248-G	6.237	6.055 E6	2.9	97	0.02	6.13- 6.33
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15632.D

42		AR1016-B			----------NA----------					
43		AR1016-C			----------NA----------					
44		AR1016-D			----------NA----------					
45		AR1016-E			----------NA----------					
46		AR1260-A			----------NA----------					
47		AR1260-B			----------NA----------					
48		AR1260-C			----------NA----------					
49		AR1260-D			----------NA----------					
50		AR1260-E			----------NA----------					
51	S	Decachlorobiphenyl	146.814	150.939 E6	-2.8	101	0.03	9.82- 9.89		
*****		Signal #2 *****								
1	S	Tetrachloro-m-xylene	150.553	149.418 E6	0.8	94	0.00	4.30- 4.36		
2		AR1221-A			----------NA----------					
3		AR1221-B			----------NA----------					
4		AR1221-C			----------NA----------					
5		AR1221-D			----------NA----------					
6		AR1221-E			----------NA----------					
7		AR1232-A			----------NA----------					
8		AR1232-B			----------NA----------					
9		AR1232-C			----------NA----------					
10		AR1232-D			----------NA----------					
11		AR1232-E			----------NA----------					
12		AR1242-A			----------NA----------					
13		AR1242-B			----------NA----------					
14		AR1242-C			----------NA----------					
15		AR1242-D			----------NA----------					
16		AR1242-E			----------NA----------					
17		AR1248-A	1.891	1.860 E6	1.6	98	0.00	5.08- 5.28		
18		AR1248-B	5.798	5.724 E6	1.3	99	0.00	5.56- 5.76		
19		AR1248-C	3.608	3.520 E6	2.4	98	0.00	6.01- 6.21		
20		AR1248-D	4.785	4.673 E6	2.3	98	0.00	6.42- 6.62		
21		AR1248-E	4.347	4.232 E6	2.6	97	0.00	6.62- 6.82		
22		AR1248-F	6.468	6.326 E6	2.2	98	0.00	7.10- 7.30		
23		AR1248-G	5.895	5.750 E6	2.5	98	0.00	7.43- 7.63		
24		AR1254-A			----------NA----------					
25		AR1254-B			----------NA----------					
26		AR1254-C			----------NA----------					
27		AR1254-D			----------NA----------					
28		AR1254-E			----------NA----------					
29		AR1254-F			----------NA----------					
30		AR1254-G			----------NA----------					
31		AR1262-A			----------NA----------					
32		AR1262-B			----------NA----------					
33		AR1262-C			----------NA----------					
34		AR1262-D			----------NA----------					
35		AR1262-E			----------NA----------					
36		AR1268-A			----------NA----------					
37		AR1268-B			----------NA----------					
38		AR1268-C			----------NA----------					
39		AR1268-D			----------NA----------					
40		AR1268-E			----------NA----------					
41		AR1016-A			----------NA----------					
42		AR1016-B			----------NA----------					
43		AR1016-C			----------NA----------					
44		AR1016-D			----------NA----------					
45		AR1016-E			----------NA----------					
46		AR1260-A			----------NA----------					
47		AR1260-B			----------NA----------					

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL343-ICV343
Lab FileID: RL15632.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	112.075	110.120 E6	1.7	99	0.04	10.74-10.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL15612.D pcblvigcrl343a.m Mon Apr 29 13:56:27 2024

Continuing Calibration Summary

Job Number: JD91339 **Sample:** GRL401-CC343
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RL18040.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\ch...01\RL18040.D\ECD1A.ch Vial: 106
Signal #2 : C:\msdchem\1\data\chrisc2\grl401\RL18040.D\ECD2B.ch
Acq On    : 02 Jul 2024  03:10 pm                    Operator: mahalial
Sample    : cc343-50                                 Inst    : GCRL
Misc      : op55791,grl401,5.0,,,10,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\msdchem\1\dat...\pcblvigcrl343.m (ChemStation Integrator)
Title        :
Last Update  : Wed Jul 03 05:36:13 2024
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	193.499 E6	11.2	92	0.00	3.88- 3.94
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	3.828	3.392 E6	11.4	91	0.00	4.17- 4.23

10.10.46 10

Continuing Calibration Summary

Job Number: JD91339 **Sample:** GRL401-CC343
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RL18040.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42		AR1016-B	7.612	6.746	E6	11.4	89	0.00	4.47- 4.53
43		AR1016-C	16.456	14.866	E6	9.7	92	0.00	4.87- 4.93
44		AR1016-D	6.802	5.626	E6	17.3	86	0.00	4.99- 5.05
45		AR1016-E	6.822	5.797	E6	15.0	87	0.00	5.38- 5.45
46		AR1260-A	15.058	12.412	E6	17.6	83	0.00	7.41- 7.47
47		AR1260-B	10.137	8.543	E6	15.7	85	0.00	7.90- 7.96
48		AR1260-C	9.189	7.888	E6	14.2	87	0.00	8.17- 8.24
49		AR1260-D	21.816	18.781	E6	13.9	88	0.00	8.52- 8.58
50		AR1260-E	22.328	19.626	E6	12.1	91	0.00	8.80- 8.86
51	S	Decachlorobiphenyl	146.814	135.366	E6	7.8	95	0.00	9.78- 9.85
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	151.770	E6	-0.8	106	0.00	4.29- 4.35
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	2.567	2.646	E6	-3.1	107	0.00	4.73- 4.79
42		AR1016-B	5.310	5.495	E6	-3.5	106	0.00	5.12- 5.18
43		AR1016-C	12.604	12.501	E6	0.8	101	0.00	5.63- 5.69
44		AR1016-D	4.611	4.604	E6	0.2	102	0.00	5.80- 5.86
45		AR1016-E	3.730	3.761	E6	-0.8	104	0.00	6.45- 6.51
46		AR1260-A	11.098	11.552	E6	-4.1	109	0.00	8.45- 8.51
47		AR1260-B	8.556	9.035	E6	-5.6	109	0.00	8.91- 8.97

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL401-CC343
Lab FileID: RL18040.D

48		AR1260-C	8.270	8.451	E6	-2.2	109	0.00	9.20- 9.26
49		AR1260-D	18.723	18.593	E6	0.7	102	0.00	9.42- 9.48
50		AR1260-E	17.416	17.208	E6	1.2	100	0.00	9.75- 9.81
51	S	Decachlorobiphenyl	112.075	110.020	E6	1.8	100	0.00	10.71-10.77

(#) = Out of Range SPCC's out = 0 CCC's out = 0

RL17092.D pcblvigcrl343.m Wed Jul 03 07:33:08 2024

Continuing Calibration Summary

Job Number: JD91339 **Sample:** GRL401-CC343
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RL18056.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\ch...01\RL18056.D\ECD1A.ch Vial: 119
Signal #2 : C:\msdchem\1\data\chrisc2\grl401\RL18056.D\ECD2B.ch
Acq On : 02 Jul 2024 07:37 pm Operator: mahalial
Sample : cc343-100 Inst : GCRL
Misc : op55826,grl401,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...\pcblvigcrl343.m (ChemStation Integrator)
Title :
Last Update : Wed Jul 03 05:36:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	217.958	197.497 E6	9.4	85	0.00	3.89- 3.95
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	3.828	3.256 E6	14.9	84	0.00	4.18- 4.24

Continuing Calibration Summary

Job Number: JD91339 **Sample:** GRL401-CC343
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RL18056.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42		AR1016-B	7.612	6.616	E6	13.1	84	0.00	4.48- 4.54
43		AR1016-C	16.456	14.044	E6	14.7	82	0.00	4.88- 4.94
44		AR1016-D	6.802	5.643	E6	17.0	83	0.00	5.00- 5.06
45		AR1016-E	6.822	5.815	E6	14.8	83	0.00	5.39- 5.46
46		AR1260-A	15.058	12.294	E6	18.4	79	0.00	7.41- 7.47
47		AR1260-B	10.137	8.395	E6	17.2	79	0.00	7.90- 7.96
48		AR1260-C	9.189	7.927	E6	13.7	82	0.00	8.18- 8.25
49		AR1260-D	21.816	19.440	E6	10.9	84	0.00	8.52- 8.58
50		AR1260-E	22.328	19.626	E6	12.1	85	0.00	8.81- 8.87
51	S	Decachlorobiphenyl	146.814	132.351	E6	9.9	89	0.00	9.78- 9.85
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	150.553	154.641	E6	-2.7	98	0.00	4.29- 4.35
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	2.567	2.547	E6	0.8	94	0.00	4.74- 4.80
42		AR1016-B	5.310	5.347	E6	-0.7	96	0.00	5.13- 5.19
43		AR1016-C	12.604	12.337	E6	2.1	93	0.00	5.64- 5.70
44		AR1016-D	4.611	4.573	E6	0.8	94	0.00	5.80- 5.86
45		AR1016-E	3.730	3.745	E6	-0.4	97	0.00	6.45- 6.51
46		AR1260-A	11.098	11.159	E6	-0.5	97	0.00	8.45- 8.51
47		AR1260-B	8.556	8.625	E6	-0.8	96	0.00	8.92- 8.98

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRL401-CC343
Lab FileID: RL18056.D

48		AR1260-C	8.270	8.106	E6	2.0	97	0.00	9.20- 9.26
49		AR1260-D	18.723	18.136	E6	3.1	93	0.00	9.42- 9.48
50		AR1260-E	17.416	16.813	E6	3.5	94	0.00	9.74- 9.80
51	S	Decachlorobiphenyl	112.075	109.148	E6	2.6	99	-0.01	10.70-10.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RL18040.D pcblvigcrl343.m Wed Jul 03 07:32:49 2024

Initial Calibration Summary

Job Number: JD91339 **Sample:** GRM547-ICC547
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RM24624.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Response Factor Report GCRM

Method : C:\msdchem\1\met...\lviPCBGRM547a.M (ChemStation Integrator)
Title :
Last Update : Thu Jun 20 01:58:38 2024
Response via : Initial Calibration

Calibration Files
50 =rm24620.D 250 =rm24622.D 500 =rm24623.D 1000=rm24624.D
2000=rm24625.D 3000=rm24626.D 5000=rm24627.D 10k =rm24628.D
20k =rm24629.D 100 =rm24621.D = =

Compound	50	250	500	1000	2000	3000	5000	10k	20k	100	Avg	%RSD
1) Tetrachloro-m-xylene	1.058	1.200	1.184	1.278	1.137					1.350	1.201 E8	8.59
2) AR1221-A			9.165								9.165 E5	0.00
3) AR1221-B			1.196								1.196 E6	0.00
4) AR1221-C			3.857								3.857 E6	0.00
5) AR1221-D			3.770								3.770 E5	0.00
6) AR1221-E			6.698								6.698 E5	0.00
7) AR1232-A			2.610								2.610 E6	0.00
8) AR1232-B			1.725								1.725 E6	0.00
9) AR1232-C			3.473								3.473 E6	0.00
10) AR1232-D			1.412								1.412 E6	0.00
11) AR1232-E			1.335								1.335 E6	0.00
12) AR1242-A			3.342								3.342 E6	0.00
13) AR1242-B			7.078								7.078 E6	0.00
14) AR1242-C			2.792								2.792 E6	0.00
15) AR1242-D			2.987								2.987 E6	0.00
16) AR1242-E			2.911								2.911 E6	0.00
17) AR1248-A			1.464								1.464 E6	0.00
18) AR1248-B			4.299								4.299 E6	0.00
19) AR1248-C			4.835								4.835 E6	0.00
20) AR1248-D			4.449								4.449 E6	0.00
21) AR1248-E			4.254								4.254 E6	0.00
22) AR1248-F			4.375								4.375 E6	0.00
23) AR1248-G												

Initial Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICC547
Lab FileID: RM24624.D

```
                          7.766                                  7.766 E6    0.00
24)  AR1254-A
                          3.936                                  3.936 E6    0.00
25)  AR1254-B
                          6.710                                  6.710 E6    0.00
26)  AR1254-C
                          3.806                                  3.806 E6    0.00
27)  AR1254-D
                          7.581                                  7.581 E6    0.00
28)  AR1254-E
                          5.773                                  5.773 E6    0.00
29)  AR1254-F
                          5.993                                  5.993 E6    0.00
30)  AR1254-G
                          7.361                                  7.361 E6    0.00
31)  AR1262-A
                          6.074                                  6.074 E6    0.00
32)  AR1262-B
                          9.748                                  9.748 E6    0.00
33)  AR1262-C
                          7.119                                  7.119 E6    0.00
34)  AR1262-D
                          1.528                                  1.528 E7    0.00
35)  AR1262-E
                          1.543                                  1.543 E7    0.00
36)  AR1268-A
                          1.688                                  1.688 E7    0.00
37)  AR1268-B
                          1.548                                  1.548 E7    0.00
38)  AR1268-C
                          1.236                                  1.236 E7    0.00
39)  AR1268-D
                          4.417                                  4.417 E6    0.00
40)  AR1268-E
                          2.895                                  2.895 E7    0.00
41)  AR1016-A
          2.358 2.265 2.164 2.302 2.031 2.065 2.140 2.272 2.084 2.538  2.222 E6    7.02
42)  AR1016-B
          4.089 4.201 4.049 4.241 3.718 3.778 3.879 4.003 3.518 4.641  4.012 E6    7.86
43)  AR1016-C
          7.491 8.393 8.322 9.139 8.128 8.403 8.682 8.725 7.510 9.652  8.444 E6    7.87
44)  AR1016-D
          3.336 3.680 3.471 3.649 3.213 3.310 3.426 3.688 3.241 3.843  3.486 E6    6.23
45)  AR1016-E
          3.032 3.821 3.682 3.895 3.423 3.509 3.646 3.802 3.393 3.652  3.586 E6    7.14
46)  AR1260-A
          1.110 1.216 1.200 1.268 1.107 1.139 1.154 1.123 0.942 1.420  1.168 E7   10.60
47)  AR1260-B
          6.625 7.191 7.064 7.462 6.465 6.597 6.654 6.608 5.578 8.382  6.863 E6   10.71
48)  AR1260-C
          5.383 5.662 5.589 6.016 5.298 5.472 5.614 5.667 4.803 6.834  5.634 E6    9.32
49)  AR1260-D
          1.267 1.400 1.374 1.467 1.264 1.276 1.265 1.201 0.972 1.649  1.313 E7   13.55
50)  AR1260-E
          1.266 1.236 1.222 1.277 1.137 1.159 1.191 1.198 1.030 1.518  1.223 E7   10.28
51)  Decachlorobiphenyl
          7.754 7.861 7.510 7.744 6.497                      9.922  7.881 E7   14.19

Signal #2
```

Initial Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICC547
Lab FileID: RM24624.D

1)	Tetrachloro-m-xylene						
	0.971	0.952	0.974	1.077	0.977	1.088	1.006 E8	5.91
2)	AR1221-A						
				6.841			6.841 E5	0.00
3)	AR1221-B						
				1.032			1.032 E6	0.00
4)	AR1221-C						
				2.781			2.781 E6	0.00
5)	AR1221-D						
				8.727			8.727 E5	0.00
6)	AR1221-E						
				4.386			4.386 E5	0.00
7)	AR1232-A						
				1.982			1.982 E6	0.00
8)	AR1232-B						
				1.556			1.556 E6	0.00
9)	AR1232-C						
				3.015			3.015 E6	0.00
10)	AR1232-D						
				1.357			1.357 E6	0.00
11)	AR1232-E						
				8.694			8.694 E5	0.00
12)	AR1242-A						
				3.009			3.009 E6	0.00
13)	AR1242-B						
				6.343			6.343 E6	0.00
14)	AR1242-C						
				2.825			2.825 E6	0.00
15)	AR1242-D						
				1.371			1.371 E6	0.00
16)	AR1242-E						
				2.428			2.428 E6	0.00
17)	AR1248-A						
				1.337			1.337 E6	0.00
18)	AR1248-B						
				3.549			3.549 E6	0.00
19)	AR1248-C						
				2.567			2.567 E6	0.00
20)	AR1248-D						
				3.216			3.216 E6	0.00
21)	AR1248-E						
				2.946			2.946 E6	0.00
22)	AR1248-F						
				4.425			4.425 E6	0.00
23)	AR1248-G						
				3.427			3.427 E6	0.00
24)	AR1254-A						
				4.316			4.316 E6	0.00
25)	AR1254-B						
				4.971			4.971 E6	0.00
26)	AR1254-C						
				3.338			3.338 E6	0.00
27)	AR1254-D						
				7.523			7.523 E6	0.00
28)	AR1254-E						
				5.120			5.120 E6	0.00
29)	AR1254-F						
				4.754			4.754 E6	0.00
30)	AR1254-G						
				6.889			6.889 E6	0.00

Initial Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICC547
Lab FileID: RM24624.D

```
31)  AR1262-A
                          5.988                                    5.988 E6    0.00
32)  AR1262-B
                          9.152                                    9.152 E6    0.00
33)  AR1262-C
                          6.913                                    6.913 E6    0.00
34)  AR1262-D
                          1.408                                    1.408 E7    0.00
35)  AR1262-E
                          1.468                                    1.468 E7    0.00
36)  AR1268-A
                          1.730                                    1.730 E7    0.00
37)  AR1268-B
                          1.535                                    1.535 E7    0.00
38)  AR1268-C
                          1.253                                    1.253 E7    0.00
39)  AR1268-D
                          4.573                                    4.573 E6    0.00
40)  AR1268-E
                          3.113                                    3.113 E7    0.00
41)  AR1016-A
          1.757 1.594 1.521 1.719 1.569 1.630 1.738 1.871 1.735 1.835  1.697 E6    6.78
42)  AR1016-B
          3.508 3.816 3.611 3.844 3.388 3.656 3.843 4.105 3.735 4.086  3.759 E6    6.13
43)  AR1016-C
          6.862 7.367 7.555 8.270 7.459 7.811 8.262 8.800 7.800 9.351  7.954 E6    9.23
44)  AR1016-D
          2.107 3.313 2.957 3.204 2.856 2.988 3.180 3.418 3.090 3.477  3.059 E6   12.74
45)  AR1016-E
          1.385 1.603 1.727 1.830 1.600 1.669 1.766 1.899 1.759 2.027  1.726 E6   10.30
46)  AR1260-A
          7.411 7.688 7.773 8.468 7.532 7.811 8.049 8.063 6.750 9.077  7.862 E6    7.94
47)  AR1260-B
          5.971 6.450 6.361 6.811 5.981 6.129 6.364 6.391 5.393 7.345  6.320 E6    8.26
48)  AR1260-C
          5.451 5.657 5.608 6.063 5.378 5.590 5.865 6.016 5.207 6.566  5.740 E6    6.93
49)  AR1260-D
          1.229 1.301 1.303 1.396 1.213 1.241 1.255 1.218 0.997 1.466  1.262 E7    9.85
50)  AR1260-E
          1.093 1.151 1.135 1.229 1.084 1.133 1.188 1.270 1.075 1.335  1.169 E7    7.35
51)  Decachlorobiphenyl
          7.669 7.756 7.473 7.704 6.653                      9.133  7.731 E7   10.35
-------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          lviPCBGRM547a.M        Thu Jun 20 02:14:38 2024
```

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24630.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\GRM547\rm24630.D\ECD1A.ch Vial: 37
Signal #2 : C:\msdchem\1\data\GRM547\rm24630.D\ECD2B.ch
Acq On : 18 Jun 2024 09:39 pm Operator: mahalial
Sample : icv547-100 Inst : GCRM
Misc : op55413,grm547,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...\lviPCBGRM547a.M (ChemStation Integrator)
Title :
Last Update : Thu Jun 20 01:58:38 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	120.116	126.190 E6	-5.1	99	0.00	3.85- 3.91
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	2.222	2.054 E6	7.6	89	0.00	4.15- 4.21

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24630.D

42		AR1016-B	4.012	4.072	E6	-1.5	96	0.00	4.44- 4.50
43		AR1016-C	8.444	8.525	E6	-1.0	93	0.00	4.85- 4.91
44		AR1016-D	3.486	3.472	E6	0.4	95	0.00	4.97- 5.03
45		AR1016-E	3.586	3.604	E6	-0.5	93	0.00	5.35- 5.42
46		AR1260-A	11.678	11.721	E6	-0.4	92	0.00	7.36- 7.42
47		AR1260-B	6.863	5.879	E6	14.3	79	0.00	7.85- 7.91
48		AR1260-C	5.634	4.811	E6	14.6	80	0.00	8.13- 8.20
49		AR1260-D	13.134	11.633	E6	11.4	79	0.00	8.47- 8.53
50		AR1260-E	12.233	9.849	E6	19.5	77	0.00	8.75- 8.81
51	S	Decachlorobiphenyl	78.812	81.293	E6	-3.1	105	0.00	9.69- 9.76
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	100.641	106.975	E6	-6.3	99	0.00	4.29- 4.35
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	1.697	1.569	E6	7.5	91	0.00	4.75- 4.81
42		AR1016-B	3.759	3.669	E6	2.4	95	0.00	5.15- 5.21
43		AR1016-C	7.954	7.686	E6	3.4	93	0.00	5.68- 5.74
44		AR1016-D	3.059	3.023	E6	1.2	94	0.00	5.85- 5.91
45		AR1016-E	1.726	1.730	E6	-0.2	95	0.00	6.17- 6.23
46		AR1260-A	7.862	7.922	E6	-0.8	94	0.00	8.47- 8.53
47		AR1260-B	6.320	5.278	E6	16.5	77	0.00	8.92- 8.98

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24630.D

48		AR1260-C	5.740	4.926	E6	14.2	81	0.00	9.20- 9.26
49		AR1260-D	12.620	10.607	E6	16.0	76	0.00	9.40- 9.46
50		AR1260-E	11.694	9.137	E6	21.9#	74	0.00	9.72- 9.78
51	S	Decachlorobiphenyl	77.313	81.346	E6	-5.2	106	0.00	10.64-10.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
rm24624.D lviPCBGRM547a.M Thu Jun 20 02:10:52 2024

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24639.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\GRM547\rm24639.D\ECD1A.ch Vial: 46
Signal #2 : C:\msdchem\1\data\GRM547\rm24639.D\ECD2B.ch
Acq On : 19 Jun 2024 12:15 am Operator: mahalial
Sample : icv547-100 Inst : GCRM
Misc : op55413,grm547,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...\lviPCBGRM547a.M (ChemStation Integrator)
Title :
Last Update : Thu Jun 20 01:58:38 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	120.116	119.485 E6	0.5	93	0.00	3.86- 3.92
2	AR1221-A	916.491	805.553 E3	12.1	88	0.00	3.35- 3.55
3	AR1221-B	1.196	1.053 E6	12.0	88	0.00	3.93- 4.13
4	AR1221-C	3.857	3.144 E6	18.5	82	0.00	4.08- 4.28
5	AR1221-D	377.025	364.893 E3	3.2	97	0.00	4.38- 4.58
6	AR1221-E	669.821	653.948 E3	2.4	98	0.01	4.79- 4.99
7	AR1232-A	----------NA----------					
8	AR1232-B	----------NA----------					
9	AR1232-C	----------NA----------					
10	AR1232-D	----------NA----------					
11	AR1232-E	----------NA----------					
12	AR1242-A	----------NA----------					
13	AR1242-B	----------NA----------					
14	AR1242-C	----------NA----------					
15	AR1242-D	----------NA----------					
16	AR1242-E	----------NA----------					
17	AR1248-A	----------NA----------					
18	AR1248-B	----------NA----------					
19	AR1248-C	----------NA----------					
20	AR1248-D	----------NA----------					
21	AR1248-E	----------NA----------					
22	AR1248-F	----------NA----------					
23	AR1248-G	----------NA----------					
24	AR1254-A	----------NA----------					
25	AR1254-B	----------NA----------					
26	AR1254-C	----------NA----------					
27	AR1254-D	----------NA----------					
28	AR1254-E	----------NA----------					
29	AR1254-F	----------NA----------					
30	AR1254-G	----------NA----------					
31	AR1262-A	----------NA----------					
32	AR1262-B	----------NA----------					
33	AR1262-C	----------NA----------					
34	AR1262-D	----------NA----------					
35	AR1262-E	----------NA----------					
36	AR1268-A	----------NA----------					
37	AR1268-B	----------NA----------					
38	AR1268-C	----------NA----------					
39	AR1268-D	----------NA----------					
40	AR1268-E	----------NA----------					
41	AR1016-A	----------NA----------					

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24639.D

42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				
48		AR1260-C		----------NA----------				
49		AR1260-D		----------NA----------				
50		AR1260-E		----------NA----------				
51	S	Decachlorobiphenyl	78.812	68.448 E6	13.2	88	0.00	9.69- 9.76
*****		Signal #2 *****						
1	S	Tetrachloro-m-xylene	100.641	96.158 E6	4.5	89	0.00	4.29- 4.35
2		AR1221-A	684.130	605.515 E3	11.5	89	0.00	3.87- 3.93
3		AR1221-B	1.032	0.872 E6	15.5	84	0.00	4.49- 4.69
4		AR1221-C	2.781	2.232 E6	19.7	80	0.00	4.68- 4.88
5		AR1221-D	872.718	585.107 E3	33.0#	67	-0.12#	5.08- 5.28
6		AR1221-E	438.562	415.113 E3	5.3	95	0.00	5.62- 5.82
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				
42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24639.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	77.313	70.909 E6	8.3	92	0.00	10.64-10.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
rm24624.D lviPCBGRM547a.M Thu Jun 20 02:10:55 2024

10.10.50 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24640.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\GRM547\rm24640.D\ECD1A.ch Vial: 47
Signal #2 : C:\msdchem\1\data\GRM547\rm24640.D\ECD2B.ch
Acq On : 19 Jun 2024 12:32 am Operator: mahalial
Sample : icv547-100 Inst : GCRM
Misc : op55413,grm547,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...\lviPCBGRM547a.M (ChemStation Integrator)
Title :
Last Update : Thu Jun 20 01:58:38 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene		----------NA----------				
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A	3.936	3.550 E6	9.8	90	0.00	5.71- 5.91
25	AR1254-B	6.710	5.943 E6	11.4	89	0.00	6.03- 6.23
26	AR1254-C	3.806	3.399 E6	10.7	89	0.00	6.43- 6.63
27	AR1254-D	7.581	6.746 E6	11.0	89	0.00	6.62- 6.82
28	AR1254-E	5.773	4.898 E6	15.2	85	0.01	7.07- 7.27
29	AR1254-F	5.993	5.517 E6	7.9	92	0.00	7.30- 7.50
30	AR1254-G	7.361	6.581 E6	10.6	89	0.00	7.66- 7.86
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24640.D

42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				
48		AR1260-C		----------NA----------				
49		AR1260-D		----------NA----------				
50		AR1260-E		----------NA----------				
51	S	Decachlorobiphenyl	78.812	73.118 E6	7.2	94	0.00	9.69- 9.76

***** Signal #2 *****

1	S	Tetrachloro-m-xylene		----------NA----------				
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A	4.316	4.020 E6	6.9	93	0.00	7.14- 7.34
25		AR1254-B	4.971	4.464 E6	10.2	90	0.00	7.39- 7.59
26		AR1254-C	3.338	2.939 E6	12.0	88	0.00	7.84- 8.04
27		AR1254-D	7.523	6.744 E6	10.4	90	0.00	7.98- 8.18
28		AR1254-E	5.120	4.389 E6	14.3	86	0.00	8.23- 8.43
29		AR1254-F	4.754	4.207 E6	11.5	89	0.00	8.58- 8.78
30		AR1254-G	6.889	6.166 E6	10.5	89	0.00	8.78- 8.98
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				
42		AR1016-B		----------NA----------				
43		AR1016-C		----------NA----------				
44		AR1016-D		----------NA----------				
45		AR1016-E		----------NA----------				
46		AR1260-A		----------NA----------				
47		AR1260-B		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24640.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	77.313	71.993 E6	6.9	93	0.00	10.64-10.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
rm24624.D lviPCBGRM547a.M Thu Jun 20 02:10:57 2024

10.10.51 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24641.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\GRM547\rm24641.D\ECD1A.ch Vial: 48
Signal #2 : C:\msdchem\1\data\GRM547\rm24641.D\ECD2B.ch
Acq On : 19 Jun 2024 12:50 am Operator: mahalial
Sample : icv547-100 Inst : GCRM
Misc : op55413,grm547,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...\lviPCBGRM547a.M (ChemStation Integrator)
Title :
Last Update : Thu Jun 20 01:58:38 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	120.116	122.225 E6	-1.8	96	0.00	3.85- 3.91
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A	2.610	2.485 E6	4.8	95	0.00	4.08- 4.28
8	AR1232-B	1.725	1.674 E6	3.0	97	0.00	4.38- 4.58
9	AR1232-C	3.473	3.539 E6	-1.9	102	0.00	4.78- 4.98
10	AR1232-D	1.412	1.373 E6	2.8	97	0.00	4.91- 5.11
11	AR1232-E	1.335	1.290 E6	3.4	97	0.00	5.29- 5.49
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24641.D

42		AR1016-B		----------NA----------					
43		AR1016-C		----------NA----------					
44		AR1016-D		----------NA----------					
45		AR1016-E		----------NA----------					
46		AR1260-A		----------NA----------					
47		AR1260-B		----------NA----------					
48		AR1260-C		----------NA----------					
49		AR1260-D		----------NA----------					
50		AR1260-E		----------NA----------					
51	S	Decachlorobiphenyl	78.812	73.297 E6	7.0	95	0.00	9.69-	9.76
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	100.641	99.822 E6	0.8	93	0.00	4.29-	4.35
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A	1.982	1.841 E6	7.1	93	0.00	4.68-	4.88
8		AR1232-B	1.556	1.462 E6	6.0	94	0.00	5.08-	5.28
9		AR1232-C	3.015	2.860 E6	5.1	95	0.00	5.61-	5.81
10		AR1232-D	1.357	1.358 E6	-0.1	100	0.00	5.79-	5.99
11		AR1232-E	869.427	810.738 E3	6.8	93	0.00	6.47-	6.67
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A		----------NA----------					
42		AR1016-B		----------NA----------					
43		AR1016-C		----------NA----------					
44		AR1016-D		----------NA----------					
45		AR1016-E		----------NA----------					
46		AR1260-A		----------NA----------					
47		AR1260-B		----------NA----------					

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24641.D

48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	77.313	73.608 E6	4.8	96	0.00	10.64-10.70	

(#) = Out of Range SPCC's out = 0 CCC's out = 0
rm24624.D lviPCBGRM547a.M Thu Jun 20 02:10:59 2024

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24642.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\GRM547\rm24642.D\ECD1A.ch Vial: 49
Signal #2 : C:\msdchem\1\data\GRM547\rm24642.D\ECD2B.ch
Acq On : 19 Jun 2024 01:07 am Operator: mahalial
Sample : icv547-100 Inst : GCRM
Misc : op55413,grm547,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...\lviPCBGRM547a.M (ChemStation Integrator)
Title :
Last Update : Thu Jun 20 01:58:38 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	120.116	118.157 E6	1.6	92	0.00	3.86- 3.92
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A	6.074	5.546 E6	8.7	91	0.00	7.30- 7.50
32		AR1262-B	9.748	8.880 E6	8.9	91	0.00	7.78- 7.98
33		AR1262-C	7.119	6.473 E6	9.1	91	0.00	8.06- 8.26
34		AR1262-D	15.276	13.820 E6	9.5	90	0.00	8.40- 8.60
35		AR1262-E	15.434	13.944 E6	9.7	90	0.00	8.70- 8.90
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24642.D

42		AR1016-B		----------NA----------					
43		AR1016-C		----------NA----------					
44		AR1016-D		----------NA----------					
45		AR1016-E		----------NA----------					
46		AR1260-A		----------NA----------					
47		AR1260-B		----------NA----------					
48		AR1260-C		----------NA----------					
49		AR1260-D		----------NA----------					
50		AR1260-E		----------NA----------					
51	S	Decachlorobiphenyl	78.812	73.585 E6	6.6	95	0.00	9.69-	9.76
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	100.641	99.503 E6	1.1	92	0.00	4.29-	4.35
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A	5.988	5.422 E6	9.5	91	0.00	8.40-	8.60
32		AR1262-B	9.152	8.313 E6	9.2	91	0.00	8.85-	9.05
33		AR1262-C	6.913	6.258 E6	9.5	91	0.00	9.13-	9.33
34		AR1262-D	14.080	12.650 E6	10.2	90	0.00	9.34-	9.54
35		AR1262-E	14.679	13.039 E6	11.2	89	0.00	9.63-	9.83
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A		----------NA----------					
42		AR1016-B		----------NA----------					
43		AR1016-C		----------NA----------					
44		AR1016-D		----------NA----------					
45		AR1016-E		----------NA----------					
46		AR1260-A		----------NA----------					
47		AR1260-B		----------NA----------					

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24642.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	77.313	72.463 E6	6.3	94	0.00	10.64-10.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
rm24624.D lviPCBGRM547a.M Thu Jun 20 02:11:01 2024

10.10.53 10

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24643.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\GRM547\rm24643.D\ECD1A.ch Vial: 50
Signal #2 : C:\msdchem\1\data\GRM547\rm24643.D\ECD2B.ch
Acq On : 19 Jun 2024 01:24 am Operator: mahalial
Sample : icv547-100 Inst : GCRM
Misc : op55413,grm547,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...\lviPCBGRM547a.M (ChemStation Integrator)
Title :
Last Update : Thu Jun 20 01:58:38 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	120.116	113.803 E6	5.3	89	0.00	3.86- 3.92
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A	16.877	14.220 E6	15.7	84	0.00	8.70- 8.90
37	AR1268-B	15.482	13.070 E6	15.6	84	0.00	8.74- 8.94
38	AR1268-C	12.358	10.541 E6	14.7	85	0.00	8.92- 9.12
39	AR1268-D	4.417	3.836 E6	13.2	87	0.00	9.24- 9.44
40	AR1268-E	28.954	25.273 E6	12.7	87	0.00	9.47- 9.67
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24643.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	78.812	207.152 E6	-162.8#	267#	0.00	9.69- 9.76	
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	100.641	100.278 E6	0.4	93	0.00	4.29- 4.35	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A	17.298	14.382 E6	16.9	83	0.00	9.63- 9.83	
37		AR1268-B	15.347	12.717 E6	17.1	83	0.00	9.67- 9.87	
38		AR1268-C	12.528	10.508 E6	16.1	84	0.00	9.88-10.08	
39		AR1268-D	4.573	3.741 E6	18.2	82	0.00	10.08-10.28	
40		AR1268-E	31.129	26.274 E6	15.6	84	0.00	10.34-10.54	
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24643.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	77.313	197.952 E6	-156.0#	257#	0.00	10.64-10.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
rm24624.D lviPCBGRM547a.M Thu Jun 20 02:11:03 2024

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24644.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\GRM547\rm24644.D\ECD1A.ch Vial: 51
Signal #2 : C:\msdchem\1\data\GRM547\rm24644.D\ECD2B.ch
Acq On : 19 Jun 2024 01:42 am Operator: mahalial
Sample : icv547-100 Inst : GCRM
Misc : op55413,grm547,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...\lviPCBGRM547a.M (ChemStation Integrator)
Title :
Last Update : Thu Jun 20 01:58:38 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	120.116	116.432 E6	3.1	91	0.00	3.85- 3.91
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A	3.342	3.310 E6	1.0	99	0.00	4.37- 4.57
13	AR1242-B	7.078	6.728 E6	4.9	95	0.00	4.78- 4.98
14	AR1242-C	2.792	2.719 E6	2.6	97	0.00	4.90- 5.10
15	AR1242-D	2.987	2.812 E6	5.9	94	0.00	5.29- 5.49
16	AR1242-E	2.911	2.816 E6	3.3	97	0.00	5.83- 6.03
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24644.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	78.812	68.250 E6	13.4	88	0.00	9.69- 9.76	
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	100.641	98.434 E6	2.2	91	0.00	4.29- 4.35	
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A	3.009	2.950 E6	2.0	98	0.00	5.08- 5.28	
13		AR1242-B	6.343	5.870 E6	7.5	93	0.00	5.61- 5.81	
14		AR1242-C	2.825	2.587 E6	8.4	92	0.00	5.78- 5.98	
15		AR1242-D	1.371	1.209 E6	11.8	88	0.00	5.93- 6.13	
16		AR1242-E	2.428	2.212 E6	8.9	91	0.00	7.16- 7.36	
17		AR1248-A			----------NA----------				
18		AR1248-B			----------NA----------				
19		AR1248-C			----------NA----------				
20		AR1248-D			----------NA----------				
21		AR1248-E			----------NA----------				
22		AR1248-F			----------NA----------				
23		AR1248-G			----------NA----------				
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A			----------NA----------				
37		AR1268-B			----------NA----------				
38		AR1268-C			----------NA----------				
39		AR1268-D			----------NA----------				
40		AR1268-E			----------NA----------				
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24644.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	77.313	70.005 E6	9.5	91	0.00	10.64-10.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
rm24624.D lviPCBGRM547a.M Thu Jun 20 02:11:05 2024

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24645.D

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\GRM547\rm24645.D\ECD1A.ch Vial: 52
Signal #2 : C:\msdchem\1\data\GRM547\rm24645.D\ECD2B.ch
Acq On : 19 Jun 2024 01:59 am Operator: mahalial
Sample : icv547-100 Inst : GCRM
Misc : op55413,grm547,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\met...\lviPCBGRM547a.M (ChemStation Integrator)
Title :
Last Update : Thu Jun 20 01:58:38 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	120.116	113.497 E6	5.5	89	0.00	3.86- 3.92
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A	1.464	1.394 E6	4.8	95	0.00	4.37- 4.57
18	AR1248-B	4.299	3.902 E6	9.2	91	0.00	4.78- 4.98
19	AR1248-C	4.835	4.437 E6	8.2	92	0.00	5.06- 5.26
20	AR1248-D	4.449	4.129 E6	7.2	93	0.00	5.29- 5.49
21	AR1248-E	4.254	4.055 E6	4.7	95	0.00	5.38- 5.58
22	AR1248-F	4.375	4.419 E6	-1.0	101	0.02	5.83- 6.03
23	AR1248-G	7.766	7.575 E6	2.5	98	0.00	6.04- 6.24
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A		----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24645.D

42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				
48		AR1260-C			----------NA----------				
49		AR1260-D			----------NA----------				
50		AR1260-E			----------NA----------				
51	S	Decachlorobiphenyl	78.812	69.978 E6	11.2	90	0.00	9.69-	9.76
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	100.641	101.089 E6	-0.4	94	0.00	4.29-	4.35
2		AR1221-A			----------NA----------				
3		AR1221-B			----------NA----------				
4		AR1221-C			----------NA----------				
5		AR1221-D			----------NA----------				
6		AR1221-E			----------NA----------				
7		AR1232-A			----------NA----------				
8		AR1232-B			----------NA----------				
9		AR1232-C			----------NA----------				
10		AR1232-D			----------NA----------				
11		AR1232-E			----------NA----------				
12		AR1242-A			----------NA----------				
13		AR1242-B			----------NA----------				
14		AR1242-C			----------NA----------				
15		AR1242-D			----------NA----------				
16		AR1242-E			----------NA----------				
17		AR1248-A	1.337	1.267 E6	5.2	95	0.00	5.08-	5.28
18		AR1248-B	3.549	3.347 E6	5.7	94	0.03	5.61-	5.81
19		AR1248-C	2.567	2.420 E6	5.7	94	0.00	6.04-	6.24
20		AR1248-D	3.216	2.964 E6	7.8	92	0.00	6.46-	6.66
21		AR1248-E	2.946	2.708 E6	8.1	92	0.00	6.68-	6.88
22		AR1248-F	4.425	4.213 E6	4.8	95	0.00	7.15-	7.35
23		AR1248-G	3.427	2.820 E6	17.7	82	0.00	7.48-	7.68
24		AR1254-A			----------NA----------				
25		AR1254-B			----------NA----------				
26		AR1254-C			----------NA----------				
27		AR1254-D			----------NA----------				
28		AR1254-E			----------NA----------				
29		AR1254-F			----------NA----------				
30		AR1254-G			----------NA----------				
31		AR1262-A			----------NA----------				
32		AR1262-B			----------NA----------				
33		AR1262-C			----------NA----------				
34		AR1262-D			----------NA----------				
35		AR1262-E			----------NA----------				
36		AR1268-A			----------NA----------				
37		AR1268-B			----------NA----------				
38		AR1268-C			----------NA----------				
39		AR1268-D			----------NA----------				
40		AR1268-E			----------NA----------				
41		AR1016-A			----------NA----------				
42		AR1016-B			----------NA----------				
43		AR1016-C			----------NA----------				
44		AR1016-D			----------NA----------				
45		AR1016-E			----------NA----------				
46		AR1260-A			----------NA----------				
47		AR1260-B			----------NA----------				

Initial Calibration Verification

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM547-ICV547
Lab FileID: RM24645.D

48		AR1260-C			----------NA----------			
49		AR1260-D			----------NA----------			
50		AR1260-E			----------NA----------			
51	S	Decachlorobiphenyl	77.313	71.263 E6	7.8	93	0.00	10.64-10.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
rm24624.D lviPCBGRM547a.M Thu Jun 20 02:11:07 2024

10.10.56 10

Continuing Calibration Summary

Job Number: JD91339 **Sample:** GRM560-CC547
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RM25021.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\na...60\rm25021.D\ECD1A.ch Vial: 112
Signal #2 : C:\msdchem\1\data\nazaryne\GRM560\rm25021.D\ECD2B.ch
Acq On : 01 Jul 2024 03:54 pm Operator: mahalial
Sample : cc547-100 Inst : GCRM
Misc : op55787,grm560,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...0\lviPCBGRM547.M (ChemStation Integrator)
Title :
Last Update : Tue Jul 02 05:10:21 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1 S	Tetrachloro-m-xylene	120.116	112.466 E6	6.4	88	0.00	3.84- 3.90
2	AR1221-A		----------NA----------				
3	AR1221-B		----------NA----------				
4	AR1221-C		----------NA----------				
5	AR1221-D		----------NA----------				
6	AR1221-E		----------NA----------				
7	AR1232-A		----------NA----------				
8	AR1232-B		----------NA----------				
9	AR1232-C		----------NA----------				
10	AR1232-D		----------NA----------				
11	AR1232-E		----------NA----------				
12	AR1242-A		----------NA----------				
13	AR1242-B		----------NA----------				
14	AR1242-C		----------NA----------				
15	AR1242-D		----------NA----------				
16	AR1242-E		----------NA----------				
17	AR1248-A		----------NA----------				
18	AR1248-B		----------NA----------				
19	AR1248-C		----------NA----------				
20	AR1248-D		----------NA----------				
21	AR1248-E		----------NA----------				
22	AR1248-F		----------NA----------				
23	AR1248-G		----------NA----------				
24	AR1254-A		----------NA----------				
25	AR1254-B		----------NA----------				
26	AR1254-C		----------NA----------				
27	AR1254-D		----------NA----------				
28	AR1254-E		----------NA----------				
29	AR1254-F		----------NA----------				
30	AR1254-G		----------NA----------				
31	AR1262-A		----------NA----------				
32	AR1262-B		----------NA----------				
33	AR1262-C		----------NA----------				
34	AR1262-D		----------NA----------				
35	AR1262-E		----------NA----------				
36	AR1268-A		----------NA----------				
37	AR1268-B		----------NA----------				
38	AR1268-C		----------NA----------				
39	AR1268-D		----------NA----------				
40	AR1268-E		----------NA----------				
41	AR1016-A	2.222	1.899 E6	14.5	82	0.00	4.13- 4.19

Continuing Calibration Summary

Job Number: JD91339 **Sample:** GRM560-CC547
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RM25021.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42		AR1016-B	4.012	3.555 E6	11.4	84	0.00	4.42-	4.48
43		AR1016-C	8.444	7.048 E6	16.5	77	0.00	4.83-	4.89
44		AR1016-D	3.486	3.044 E6	12.7	83	0.00	4.95-	5.01
45		AR1016-E	3.586	3.290 E6	8.3	84	0.00	5.33-	5.40
46		AR1260-A	11.678	11.557 E6	1.0	91	0.00	7.33-	7.39
47		AR1260-B	6.863	6.816 E6	0.7	91	0.00	7.82-	7.88
48		AR1260-C	5.634	5.592 E6	0.7	93	0.00	8.10-	8.17
49		AR1260-D	13.134	14.167 E6	-7.9	97	0.00	8.44-	8.50
50		AR1260-E	12.233	12.770 E6	-4.4	100	0.00	8.72-	8.78
51	S	Decachlorobiphenyl	78.812	83.485 E6	-5.9	108	0.00	9.67-	9.74
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	100.641	95.249 E6	5.4	88	0.00	4.27-	4.33
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	1.697	1.563 E6	7.9	91	0.00	4.73-	4.79
42		AR1016-B	3.759	3.328 E6	11.5	87	0.00	5.13-	5.19
43		AR1016-C	7.954	7.177 E6	9.8	87	0.00	5.65-	5.71
44		AR1016-D	3.059	2.693 E6	12.0	84	0.00	5.82-	5.88
45		AR1016-E	1.726	1.577 E6	8.6	86	0.00	6.14-	6.20
46		AR1260-A	7.862	7.802 E6	0.8	92	0.00	8.45-	8.51
47		AR1260-B	6.320	6.116 E6	3.2	90	0.00	8.90-	8.96

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM560-CC547
Lab FileID: RM25021.D

48		AR1260-C	5.740	5.630	E6	1.9	93	0.00	9.18- 9.24
49		AR1260-D	12.620	12.937	E6	-2.5	93	0.00	9.38- 9.44
50		AR1260-E	11.694	11.836	E6	-1.2	96	0.00	9.70- 9.76
51	S	Decachlorobiphenyl	77.313	83.762	E6	-8.3	109	0.00	10.62-10.68

(#) = Out of Range SPCC's out = 0 CCC's out = 0
rm24989.D lviPCBGRM547.M Tue Jul 02 05:24:24 2024

Continuing Calibration Summary

Job Number: JD91339 **Sample:** GRM560-CC547
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RM25040.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Evaluate Continuing Calibration Report

Signal #1 : C:\msdchem\1\data\na...60\rm25040.D\ECD1A.ch Vial: 128
Signal #2 : C:\msdchem\1\data\nazaryne\GRM560\rm25040.D\ECD2B.ch
Acq On : 01 Jul 2024 10:09 pm Operator: mahalial
Sample : cc547-50 Inst : GCRM
Misc : op55793,grm560,5.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e

Method : C:\msdchem\1\dat...0\lviPCBGRM547.M (ChemStation Integrator)
Title :
Last Update : Tue Jul 02 05:10:21 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	S	Tetrachloro-m-xylene	120.116	113.392 E6	5.6	96	0.00	3.84- 3.90
2		AR1221-A		----------NA----------				
3		AR1221-B		----------NA----------				
4		AR1221-C		----------NA----------				
5		AR1221-D		----------NA----------				
6		AR1221-E		----------NA----------				
7		AR1232-A		----------NA----------				
8		AR1232-B		----------NA----------				
9		AR1232-C		----------NA----------				
10		AR1232-D		----------NA----------				
11		AR1232-E		----------NA----------				
12		AR1242-A		----------NA----------				
13		AR1242-B		----------NA----------				
14		AR1242-C		----------NA----------				
15		AR1242-D		----------NA----------				
16		AR1242-E		----------NA----------				
17		AR1248-A		----------NA----------				
18		AR1248-B		----------NA----------				
19		AR1248-C		----------NA----------				
20		AR1248-D		----------NA----------				
21		AR1248-E		----------NA----------				
22		AR1248-F		----------NA----------				
23		AR1248-G		----------NA----------				
24		AR1254-A		----------NA----------				
25		AR1254-B		----------NA----------				
26		AR1254-C		----------NA----------				
27		AR1254-D		----------NA----------				
28		AR1254-E		----------NA----------				
29		AR1254-F		----------NA----------				
30		AR1254-G		----------NA----------				
31		AR1262-A		----------NA----------				
32		AR1262-B		----------NA----------				
33		AR1262-C		----------NA----------				
34		AR1262-D		----------NA----------				
35		AR1262-E		----------NA----------				
36		AR1268-A		----------NA----------				
37		AR1268-B		----------NA----------				
38		AR1268-C		----------NA----------				
39		AR1268-D		----------NA----------				
40		AR1268-E		----------NA----------				
41		AR1016-A	2.222	1.956 E6	12.0	90	0.00	4.13- 4.19

Continuing Calibration Summary

Job Number: JD91339 **Sample:** GRM560-CC547
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** RM25040.D
Project: Ridgewood Berm Sampling, Ridgewood, NJ

42		AR1016-B	4.012	3.616 E6	9.9	89	0.00	4.42-	4.48
43		AR1016-C	8.444	7.010 E6	17.0	84	0.00	4.82-	4.88
44		AR1016-D	3.486	3.139 E6	10.0	90	0.00	4.95-	5.01
45		AR1016-E	3.586	3.400 E6	5.2	92	0.00	5.33-	5.40
46		AR1260-A	11.678	11.779 E6	-0.9	98	0.00	7.33-	7.39
47		AR1260-B	6.863	6.928 E6	-0.9	98	0.00	7.82-	7.88
48		AR1260-C	5.634	5.581 E6	0.9	100	0.00	8.10-	8.17
49		AR1260-D	13.134	14.129 E6	-7.6	103	0.00	8.44-	8.50
50		AR1260-E	12.233	12.721 E6	-4.0	104	0.00	8.72-	8.78
51	S	Decachlorobiphenyl	78.812	85.059 E6	-7.9	113	0.00	9.67-	9.74
*****		Signal #2 *****							
1	S	Tetrachloro-m-xylene	100.641	93.707 E6	6.9	96	0.00	4.27-	4.33
2		AR1221-A		----------NA----------					
3		AR1221-B		----------NA----------					
4		AR1221-C		----------NA----------					
5		AR1221-D		----------NA----------					
6		AR1221-E		----------NA----------					
7		AR1232-A		----------NA----------					
8		AR1232-B		----------NA----------					
9		AR1232-C		----------NA----------					
10		AR1232-D		----------NA----------					
11		AR1232-E		----------NA----------					
12		AR1242-A		----------NA----------					
13		AR1242-B		----------NA----------					
14		AR1242-C		----------NA----------					
15		AR1242-D		----------NA----------					
16		AR1242-E		----------NA----------					
17		AR1248-A		----------NA----------					
18		AR1248-B		----------NA----------					
19		AR1248-C		----------NA----------					
20		AR1248-D		----------NA----------					
21		AR1248-E		----------NA----------					
22		AR1248-F		----------NA----------					
23		AR1248-G		----------NA----------					
24		AR1254-A		----------NA----------					
25		AR1254-B		----------NA----------					
26		AR1254-C		----------NA----------					
27		AR1254-D		----------NA----------					
28		AR1254-E		----------NA----------					
29		AR1254-F		----------NA----------					
30		AR1254-G		----------NA----------					
31		AR1262-A		----------NA----------					
32		AR1262-B		----------NA----------					
33		AR1262-C		----------NA----------					
34		AR1262-D		----------NA----------					
35		AR1262-E		----------NA----------					
36		AR1268-A		----------NA----------					
37		AR1268-B		----------NA----------					
38		AR1268-C		----------NA----------					
39		AR1268-D		----------NA----------					
40		AR1268-E		----------NA----------					
41		AR1016-A	1.697	1.649 E6	2.8	108	0.00	4.73-	4.79
42		AR1016-B	3.759	3.356 E6	10.7	93	0.00	5.13-	5.19
43		AR1016-C	7.954	7.058 E6	11.3	93	0.00	5.66-	5.72
44		AR1016-D	3.059	2.557 E6	16.4	86	0.00	5.83-	5.89
45		AR1016-E	1.726	1.586 E6	8.1	92	0.00	6.14-	6.20
46		AR1260-A	7.862	7.751 E6	1.4	100	0.00	8.45-	8.51
47		AR1260-B	6.320	6.107 E6	3.4	96	0.00	8.90-	8.96

Continuing Calibration Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: GRM560-CC547
Lab FileID: RM25040.D

48		AR1260-C	5.740	5.468	E6	4.7	97	0.00	9.18- 9.24
49		AR1260-D	12.620	12.751	E6	-1.0	98	0.00	9.38- 9.44
50		AR1260-E	11.694	11.702	E6	-0.1	103	0.00	9.70- 9.76
51	S	Decachlorobiphenyl	77.313	84.422	E6	-9.2	113	0.00	10.62-10.68

(#) = Out of Range SPCC's out = 0 CCC's out = 0
rm25021.D lviPCBGRM547.M Tue Jul 02 06:46:37 2024

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G1G6859	**Method:** SW846 8081B	**Instrument ID:** GC1G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G1G6859-DDT	1G192510.D	01/29/24 04:36	n/a	DDT/Endrin Breakdown Check
G1G6859-IC6859	1G192513.D	01/29/24 06:02	n/a	Initial cal 1
G1G6859-IC6859	1G192514.D	01/29/24 06:18	n/a	Initial cal 2
G1G6859-IC6859	1G192515.D	01/29/24 06:35	n/a	Initial cal 5
G1G6859-IC6859	1G192516.D	01/29/24 06:51	n/a	Initial cal 10
G1G6859-ICC6859	1G192517.D	01/29/24 07:07	n/a	Initial cal 25
G1G6859-IC6859	1G192518.D	01/29/24 07:23	n/a	Initial cal 50
G1G6859-IC6859	1G192519.D	01/29/24 07:40	n/a	Initial cal 75
G1G6859-IC6859	1G192520.D	01/29/24 07:56	n/a	Initial cal 100
G1G6859-IC6859	1G192521.D	01/29/24 08:12	n/a	Initial cal 500
G1G6859-IC6859	1G192522.D	01/29/24 08:28	n/a	Initial cal 500
G1G6859-ICV6859	1G192523.D	01/29/24 08:45	n/a	Initial cal verification 25
G1G6859-ICV6859	1G192524.D	01/29/24 09:01	n/a	Initial cal verification 500
G1G6859-ICV6859	1G192525.D	01/29/24 09:17	n/a	Initial cal verification 500

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G1G7071	**Method:** EPA 608.3	**Instrument ID:** GC1G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G1G7071-DDT	1G197565.D	07/01/24 22:47	n/a	DDT/Endrin Breakdown Check
G1G7071-CC6859	1G197566.D	07/01/24 23:02	n/a	Continuing cal 25
OP55806A-MB1	1G197568.D	07/01/24 23:33	OP55806A	Method Blank
OP55806-MB1	1G197568.D	07/01/24 23:33	OP55806	Method Blank
OP55806A-BS1	1G197569.D	07/01/24 23:48	OP55806A	Blank Spike
OP55806-BS1	1G197569.D	07/01/24 23:48	OP55806	Blank Spike
OP55806A-BSD	1G197570.D	07/02/24 00:03	OP55806A	Blank Spike Duplicate
OP55806-BSD	1G197570.D	07/02/24 00:03	OP55806	Blank Spike Duplicate
OP55806A-BS13	1G197571.D	07/02/24 00:19	OP55806A	Blank Spike
OP55806A-BS14	1G197572.D	07/02/24 00:34	OP55806A	Blank Spike
OP55772A-MB1	1G197573.D	07/02/24 00:50	OP55772A	Method Blank
OP55772-MB1	1G197573.D	07/02/24 00:50	OP55772	Method Blank
OP55772A-BS1	1G197574.D	07/02/24 01:05	OP55772A	Blank Spike
OP55772-BS1	1G197574.D	07/02/24 01:05	OP55772	Blank Spike
OP55772-BSD	1G197575.D	07/02/24 01:20	OP55772	Blank Spike Duplicate
OP55772A-BSD	1G197575.D	07/02/24 01:20	OP55772A	Blank Spike Duplicate
OP55772A-BS13	1G197576.D	07/02/24 01:36	OP55772A	Blank Spike
OP55772A-BS14	1G197577.D	07/02/24 01:51	OP55772A	Blank Spike
OP55772A-MB2	1G197578.D	07/02/24 02:06	OP55772A	Method Blank
OP55772A-BS2	1G197579.D	07/02/24 02:21	OP55772A	Blank Spike
OP55772A-BSD2	1G197580.D	07/02/24 02:37	OP55772A	Blank Spike Duplicate
OP55772A-BS132	1G197581.D	07/02/24 02:52	OP55772A	Blank Spike
OP55772A-BS142	1G197582.D	07/02/24 03:08	OP55772A	Blank Spike
G1G7071-CC6859	1G197583.D	07/02/24 03:23	n/a	Continuing cal 50

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G1G7072	**Method:** SW846 8081B	**Instrument ID:** GC1G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G1G7072-DDT	1G197585.D	07/02/24 05:02	n/a	DDT/Endrin Breakdown Check
G1G7072-CC6859	1G197586.D	07/02/24 05:17	n/a	Continuing cal 25
ZZZZZZ	1G197588.D	07/02/24 05:48	OP55806A	(unrelated sample)
ZZZZZZ	1G197589.D	07/02/24 06:03	OP55806A	(unrelated sample)
ZZZZZZ	1G197590.D	07/02/24 06:19	OP55806A	(unrelated sample)
ZZZZZZ	1G197591.D	07/02/24 06:34	OP55772A	(unrelated sample)
JD91339-12	1G197592.D	07/02/24 06:49	OP55806	FB-3
ZZZZZZ	1G197593.D	07/02/24 07:05	OP55806	(unrelated sample)
ZZZZZZ	1G197594.D	07/02/24 07:20	OP55772	(unrelated sample)
ZZZZZZ	1G197595.D	07/02/24 07:35	OP55772	(unrelated sample)
ZZZZZZ	1G197596.D	07/02/24 07:51	OP55772	(unrelated sample)
ZZZZZZ	1G197597.D	07/02/24 08:06	OP55772	(unrelated sample)
ZZZZZZ	1G197598.D	07/02/24 08:21	OP55772	(unrelated sample)
ZZZZZZ	1G197599.D	07/02/24 08:37	OP55772	(unrelated sample)
ZZZZZZ	1G197600.D	07/02/24 08:52	OP55772	(unrelated sample)
ZZZZZZ	1G197601.D	07/02/24 09:07	OP55772	(unrelated sample)
G1G7072-CC6859	1G197604.D	07/02/24 09:53	n/a	Continuing cal 50

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G3G5160	**Method:** SW846 8082A	**Instrument ID:** GC3G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G3G5160-IC5160	3G140971.D	04/23/24 15:29	n/a	Initial cal 50
G3G5160-IC5160	3G140972.D	04/23/24 15:45	n/a	Initial cal 250
G3G5160-IC5160	3G140973.D	04/23/24 16:02	n/a	Initial cal 500
G3G5160-ICC5160	3G140974.D	04/23/24 16:19	n/a	Initial cal 1000
G3G5160-IC5160	3G140975.D	04/23/24 16:35	n/a	Initial cal 2000
G3G5160-IC5160	3G140976.D	04/23/24 16:52	n/a	Initial cal 3000
G3G5160-IC5160	3G140980.D	04/23/24 17:58	n/a	Initial cal 1000
G3G5160-IC5160	3G140981.D	04/23/24 18:15	n/a	Initial cal 1000
G3G5160-IC5160	3G140982.D	04/23/24 18:31	n/a	Initial cal 1000
G3G5160-IC5160	3G140983.D	04/23/24 18:48	n/a	Initial cal 1000
G3G5160-IC5160	3G140984.D	04/23/24 19:04	n/a	Initial cal 1000
G3G5160-IC5160	3G140985.D	04/23/24 19:21	n/a	Initial cal 1000
G3G5160-IC5160	3G140986.D	04/23/24 19:38	n/a	Initial cal 1000
G3G5160-ICV5160	3G140987.D	04/23/24 19:54	n/a	Initial cal verification 1000
G3G5160-ICV5160	3G140988.D	04/23/24 20:11	n/a	Initial cal verification 1000
G3G5160-ICV5160	3G140989.D	04/23/24 20:28	n/a	Initial cal verification 1000
G3G5160-ICV5160	3G140990.D	04/23/24 20:44	n/a	Initial cal verification 1000
G3G5160-ICV5160	3G140991.D	04/23/24 21:01	n/a	Initial cal verification 1000
G3G5160-ICV5160	3G140992.D	04/23/24 21:18	n/a	Initial cal verification 1000
G3G5160-ICV5160	3G140993.D	04/23/24 21:34	n/a	Initial cal verification 1000
G3G5160-ICV5160	3G140994.D	04/23/24 21:51	n/a	Initial cal verification 1000

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G3G5198	**Method:** SW846 8082A	**Instrument ID:** GC3G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G3G5198-CC5160	3G141831.D	07/01/24 15:01	n/a	Continuing cal 500
OP55774A-MB1	3G141833.D	07/01/24 15:34	OP55774A	Method Blank
OP55774-MB1	3G141833.D	07/01/24 15:34	OP55774	Method Blank
OP55774A-BS1	3G141834.D	07/01/24 15:51	OP55774A	Blank Spike
OP55774-BS1	3G141834.D	07/01/24 15:51	OP55774	Blank Spike
OP55774A-BSD	3G141835.D	07/01/24 16:07	OP55774A	Blank Spike Duplicate
OP55774-BSD	3G141835.D	07/01/24 16:07	OP55774	Blank Spike Duplicate
ZZZZZZ	3G141836.D	07/01/24 16:24	OP55774A	(unrelated sample)
ZZZZZZ	3G141837.D	07/01/24 16:41	OP55774	(unrelated sample)
OP55807-MB1	3G141839.D	07/01/24 17:14	OP55807	Method Blank
OP55807-BS1	3G141840.D	07/01/24 17:30	OP55807	Blank Spike
OP55807-BSD	3G141841.D	07/01/24 17:47	OP55807	Blank Spike Duplicate
JD91339-12	3G141842.D	07/01/24 18:04	OP55807	FB-3
ZZZZZZ	3G141843.D	07/01/24 18:20	OP55807	(unrelated sample)
OP55746-MB1	3G141846.D	07/01/24 19:10	OP55746	Method Blank
G3G5198-CC5160	3G141853.D	07/01/24 21:07	n/a	Continuing cal 1000
OP55773-MB1	3G141855.D	07/01/24 21:40	OP55773	Method Blank
OP55773A-MB1	3G141855.D	07/01/24 21:40	OP55773A	Method Blank
OP55773-BS1	3G141856.D	07/01/24 21:57	OP55773	Blank Spike
OP55773A-BS1	3G141856.D	07/01/24 21:57	OP55773A	Blank Spike
OP55773-BSD	3G141857.D	07/01/24 22:13	OP55773	Blank Spike Duplicate
OP55773A-BSD	3G141857.D	07/01/24 22:13	OP55773A	Blank Spike Duplicate
ZZZZZZ	3G141858.D	07/01/24 22:30	OP55773	(unrelated sample)
ZZZZZZ	3G141859.D	07/01/24 22:47	OP55773	(unrelated sample)
ZZZZZZ	3G141860.D	07/01/24 23:03	OP55773	(unrelated sample)
ZZZZZZ	3G141861.D	07/01/24 23:20	OP55773	(unrelated sample)
ZZZZZZ	3G141862.D	07/01/24 23:36	OP55773	(unrelated sample)
ZZZZZZ	3G141863.D	07/01/24 23:53	OP55773	(unrelated sample)
ZZZZZZ	3G141864.D	07/02/24 00:10	OP55773	(unrelated sample)
ZZZZZZ	3G141865.D	07/02/24 00:26	OP55773A	(unrelated sample)
G3G5198-CC5160	3G141867.D	07/02/24 00:59	n/a	Continuing cal 500

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G4G4352	**Method:** SW846 8081B	**Instrument ID:** GC4G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G4G4352-DDT	4G9738050.D	06/06/24 17:35	n/a	DDT/Endrin Breakdown Check
G4G4352-IC4352	4G9738052.D	06/06/24 18:20	n/a	Initial cal 50
G4G4352-IC4352	4G9738053.D	06/06/24 18:42	n/a	Initial cal 50
G4G4352-IC4352	4G9738054.D	06/06/24 19:04	n/a	Initial cal 0.1
G4G4352-IC4352	4G9738055.D	06/06/24 19:26	n/a	Initial cal 0.2
G4G4352-IC4352	4G9738056.D	06/06/24 19:48	n/a	Initial cal 0.5
G4G4352-IC4352	4G9738057.D	06/06/24 20:11	n/a	Initial cal 1
G4G4352-ICC4352	4G9738058.D	06/06/24 20:33	n/a	Initial cal 2.5
G4G4352-IC4352	4G9738059.D	06/06/24 20:55	n/a	Initial cal 5
G4G4352-IC4352	4G9738060.D	06/06/24 21:18	n/a	Initial cal 7.5
G4G4352-IC4352	4G9738061.D	06/06/24 21:40	n/a	Initial cal 10
G4G4352-ICV4352	4G9738062.D	06/06/24 22:02	n/a	Initial cal verification 2.5
G4G4352-ICV4352	4G9738063.D	06/06/24 22:25	n/a	Initial cal verification 50
G4G4352-ICV4352	4G9738064.D	06/06/24 22:47	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G4G4376	**Method:** SW846 8081B	**Instrument ID:** GC4G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G4G4376-DDT	4G9738706.D	07/02/24 12:14	n/a	DDT/Endrin Breakdown Check
G4G4376-CC4352	4G9738707.D	07/02/24 12:36	n/a	Continuing cal 2.5
OP55790-MB1	4G9738709.D	07/02/24 14:00	OP55790	Method Blank
OP55792-MB1	4G9738711.D	07/02/24 14:45	OP55792	Method Blank
OP55792-BS1	4G9738712.D	07/02/24 15:07	OP55792	Blank Spike
ZZZZZZ	4G9738713.D	07/02/24 15:30	OP55790	(unrelated sample)
ZZZZZZ	4G9738714.D	07/02/24 15:52	OP55790	(unrelated sample)
ZZZZZZ	4G9738715.D	07/02/24 16:14	OP55790	(unrelated sample)
ZZZZZZ	4G9738716.D	07/02/24 16:37	OP55790	(unrelated sample)
ZZZZZZ	4G9738717.D	07/02/24 16:59	OP55790	(unrelated sample)
ZZZZZZ	4G9738718.D	07/02/24 17:21	OP55790	(unrelated sample)
ZZZZZZ	4G9738719.D	07/02/24 17:44	OP55790	(unrelated sample)
OP55792-MS	4G9738722.D	07/02/24 18:51	OP55792	Matrix Spike
OP55792-MSD	4G9738723.D	07/02/24 19:13	OP55792	Matrix Spike Duplicate
JD91339-1	4G9738724.D	07/02/24 19:35	OP55792	GRID-3
JD91339-2	4G9738725.D	07/02/24 19:58	OP55792	GRID-4
JD91339-3	4G9738726.D	07/02/24 20:20	OP55792	GRID-20
JD91339-4	4G9738727.D	07/02/24 20:43	OP55792	GRID-11
JD91339-5	4G9738728.D	07/02/24 21:05	OP55792	GRID-10A
JD91339-6	4G9738729.D	07/02/24 21:28	OP55792	GRID-21
JD91339-7	4G9738730.D	07/02/24 21:50	OP55792	GRID-9
JD91339-8	4G9738731.D	07/02/24 22:13	OP55792	GRID-8A
JD91339-9	4G9738732.D	07/02/24 22:35	OP55792	GRID-5
JD91339-10	4G9738733.D	07/02/24 22:58	OP55792	GRID-6
JD91339-11	4G9738734.D	07/02/24 23:20	OP55792	GRID-7

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G4G4377	**Method:** SW846 8081B	**Instrument ID:** GC4G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G4G4377-DDT	4G9738738.D	07/03/24 02:01	n/a	DDT/Endrin Breakdown Check
G4G4377-CC4352	4G9738739.D	07/03/24 02:24	n/a	Continuing cal 5
OP55851-MB1	4G9738741.D	07/03/24 03:09	OP55851	Method Blank
OP55851-BS1	4G9738742.D	07/03/24 03:32	OP55851	Blank Spike
OP55851-LB1	4G9738743.D	07/03/24 03:54	OP55851	Leachate Blank
OP55851-MS	4G9738744.D	07/03/24 04:17	OP55851	Matrix Spike
OP55851-LS1	4G9738744.D	07/03/24 04:17	OP55851	Leachate Spike
OP55851-MSD	4G9738745.D	07/03/24 04:40	OP55851	Matrix Spike Duplicate
ZZZZZZ	4G9738746.D	07/03/24 05:03	OP55851	(unrelated sample)
ZZZZZZ	4G9738747.D	07/03/24 05:26	OP55851	(unrelated sample)
ZZZZZZ	4G9738748.D	07/03/24 05:48	OP55851	(unrelated sample)
ZZZZZZ	4G9738749.D	07/03/24 06:11	OP55851	(unrelated sample)
JD91336-5A	4G9738750.D	07/03/24 06:34	OP55851	(used for QC only; not part of job JD91339)
ZZZZZZ	4G9738751.D	07/03/24 06:57	OP55851	(unrelated sample)
ZZZZZZ	4G9738752.D	07/03/24 07:20	OP55851	(unrelated sample)
ZZZZZZ	4G9738753.D	07/03/24 07:43	OP55851	(unrelated sample)
ZZZZZZ	4G9738754.D	07/03/24 08:05	OP55851	(unrelated sample)
ZZZZZZ	4G9738755.D	07/03/24 08:28	OP55851	(unrelated sample)
ZZZZZZ	4G9738756.D	07/03/24 08:51	OP55851	(unrelated sample)
ZZZZZZ	4G9738757.D	07/03/24 09:13	OP55851	(unrelated sample)
ZZZZZZ	4G9738758.D	07/03/24 09:36	OP55851	(unrelated sample)
ZZZZZZ	4G9738759.D	07/03/24 09:59	OP55851	(unrelated sample)
ZZZZZZ	4G9738760.D	07/03/24 10:21	OP55851	(unrelated sample)
ZZZZZZ	4G9738761.D	07/03/24 10:44	OP55851	(unrelated sample)
ZZZZZZ	4G9738762.D	07/03/24 11:07	OP55851	(unrelated sample)
ZZZZZZ	4G9738763.D	07/03/24 11:29	OP55851	(unrelated sample)

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G5G3634	**Method:** SW846 8081B	**Instrument ID:** GC5G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G5G3634-DDT	5G138212.D	06/05/24 08:31	n/a	DDT/Endrin Breakdown Check
G5G3634-IC3634	5G138214.D	06/05/24 09:13	n/a	Initial cal 50
G5G3634-IC3634	5G138215.D	06/05/24 09:34	n/a	Initial cal 50
G5G3634-IC3634	5G138216.D	06/05/24 09:55	n/a	Initial cal 0.1
G5G3634-IC3634	5G138217.D	06/05/24 10:16	n/a	Initial cal 0.2
G5G3634-IC3634	5G138218.D	06/05/24 10:37	n/a	Initial cal 0.5
G5G3634-IC3634	5G138219.D	06/05/24 10:57	n/a	Initial cal 1
G5G3634-ICC3634	5G138220.D	06/05/24 11:18	n/a	Initial cal 2.5
G5G3634-IC3634	5G138221.D	06/05/24 11:39	n/a	Initial cal 5
G5G3634-IC3634	5G138222.D	06/05/24 12:00	n/a	Initial cal 7.5
G5G3634-IC3634	5G138223.D	06/05/24 12:20	n/a	Initial cal 10
G5G3634-ICV3634	5G138224.D	06/05/24 12:41	n/a	Initial cal verification 2.5
G5G3634-ICV3634	5G138225.D	06/05/24 13:02	n/a	Initial cal verification 50
G5G3634-ICV3634	5G138226.D	06/05/24 13:22	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G5G3662	**Method:** SW846 8081B	**Instrument ID:** GC5G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G5G3662-DDT	5G138920.D	07/02/24 15:14	n/a	DDT/Endrin Breakdown Check
G5G3662-CC3634	5G138921.D	07/02/24 15:35	n/a	Continuing cal 2.5
OP55825-MB1	5G138923.D	07/02/24 16:16	OP55825	Method Blank
OP55825-BS1	5G138924.D	07/02/24 16:37	OP55825	Blank Spike
OP55825-MS	5G138925.D	07/02/24 16:57	OP55825	Matrix Spike
OP55825-MSD	5G138926.D	07/02/24 17:18	OP55825	Matrix Spike Duplicate
JD91383-1	5G138927.D	07/02/24 17:38	OP55825	(used for QC only; not part of job JD91339)
JD91339-13	5G138928.D	07/02/24 17:59	OP55825	DUP-1
JD91339-14	5G138929.D	07/02/24 18:19	OP55825	DUP-2
ZZZZZZ	5G138930.D	07/02/24 18:40	OP55825	(unrelated sample)
ZZZZZZ	5G138931.D	07/02/24 19:00	OP55825	(unrelated sample)
ZZZZZZ	5G138932.D	07/02/24 19:21	OP55825	(unrelated sample)
ZZZZZZ	5G138933.D	07/02/24 19:41	OP55825	(unrelated sample)
ZZZZZZ	5G138934.D	07/02/24 20:02	OP55825	(unrelated sample)
ZZZZZZ	5G138935.D	07/02/24 20:23	OP55825	(unrelated sample)
ZZZZZZ	5G138936.D	07/02/24 20:43	OP55825	(unrelated sample)
ZZZZZZ	5G138937.D	07/02/24 21:04	OP55825	(unrelated sample)
ZZZZZZ	5G138938.D	07/02/24 22:11	OP55814	(unrelated sample)

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G5G3663	**Method:** SW846 8081B	**Instrument ID:** GC5G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G5G3663-DDT	5G138943.D	07/03/24 02:32	n/a	DDT/Endrin Breakdown Check
G5G3663-CC3634	5G138944.D	07/03/24 02:52	n/a	Continuing cal 5
OP55853-MB1	5G138946.D	07/03/24 03:34	OP55853	Method Blank
OP55853-BS1	5G138947.D	07/03/24 03:55	OP55853	Blank Spike
OP55853-LB2	5G138948.D	07/03/24 04:16	OP55853	Leachate Blank
OP55853-MS	5G138949.D	07/03/24 04:37	OP55853	Matrix Spike
OP55853-LS2	5G138949.D	07/03/24 04:37	OP55853	Leachate Spike
OP55853-MSD	5G138950.D	07/03/24 04:57	OP55853	Matrix Spike Duplicate
ZZZZZZ	5G138951.D	07/03/24 05:18	OP55853	(unrelated sample)
ZZZZZZ	5G138952.D	07/03/24 05:40	OP55853	(unrelated sample)
JD91371-5	5G138953.D	07/03/24 06:01	OP55853	(used for QC only; not part of job JD91339)
ZZZZZZ	5G138954.D	07/03/24 06:21	OP55853	(unrelated sample)
ZZZZZZ	5G138955.D	07/03/24 11:48	OP55853	(unrelated sample)
ZZZZZZ	5G138956.D	07/03/24 12:08	OP55853	(unrelated sample)
ZZZZZZ	5G138957.D	07/03/24 12:28	OP55853	(unrelated sample)
ZZZZZZ	5G138958.D	07/03/24 12:49	OP55853	(unrelated sample)
ZZZZZZ	5G138959.D	07/03/24 13:09	OP55853	(unrelated sample)
ZZZZZZ	5G138960.D	07/03/24 13:30	OP55853	(unrelated sample)
ZZZZZZ	5G138961.D	07/03/24 13:50	OP55853	(unrelated sample)
ZZZZZZ	5G138962.D	07/03/24 14:11	OP55853	(unrelated sample)
ZZZZZZ	5G138963.D	07/03/24 14:31	OP55853	(unrelated sample)

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G8G2430	**Method:** SW846 8081B	**Instrument ID:** GC8G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G8G2430-DDT	8G55351.D	04/03/24 00:00	n/a	DDT/Endrin Breakdown Check
G8G2430-IC2430	8G55356.D	04/03/24 05:57	n/a	Initial cal 0.2
G8G2430-IC2430	8G55357.D	04/03/24 06:19	n/a	Initial cal 0.5
G8G2430-IC2430	8G55358.D	04/03/24 06:41	n/a	Initial cal 1
G8G2430-ICC2430	8G55359.D	04/03/24 07:03	n/a	Initial cal 2.5
G8G2430-IC2430	8G55360.D	04/03/24 07:24	n/a	Initial cal 5.0
G8G2430-IC2430	8G55361.D	04/03/24 07:46	n/a	Initial cal 7.5
G8G2430-IC2430	8G55362.D	04/03/24 08:08	n/a	Initial cal 10
G8G2430-IC2430	8G55363.D	04/03/24 08:30	n/a	Initial cal 50
G8G2430-IC2430	8G55364.D	04/03/24 08:52	n/a	Initial cal 50
G8G2430-ICV2430	8G55365.D	04/03/24 09:13	n/a	Initial cal verification 2.5
G8G2430-ICV2430	8G55366.D	04/03/24 09:35	n/a	Initial cal verification 50
G8G2430-ICV2430	8G55367.D	04/03/24 09:57	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: G8G2531	**Method:** SW846 8081B	**Instrument ID:** GC8G

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G8G2531-DDT	8G57859.D	07/03/24 17:08	n/a	DDT/Endrin Breakdown Check
G8G2531-CC2430	8G57860.D	07/03/24 17:30	n/a	Continuing cal 5
OP55866-MB1	8G57862.D	07/03/24 18:50	OP55866	Method Blank
OP55866-BS1	8G57863.D	07/03/24 19:12	OP55866	Blank Spike
OP55866-MS	8G57864.D	07/03/24 19:33	OP55866	Matrix Spike
OP55866-MSD	8G57865.D	07/03/24 19:55	OP55866	Matrix Spike Duplicate
JD91465-1	8G57866.D	07/03/24 20:17	OP55866	(used for QC only; not part of job JD91339)
ZZZZZZ	8G57868.D	07/03/24 21:00	OP55866	(unrelated sample)
ZZZZZZ	8G57869.D	07/03/24 21:22	OP55866	(unrelated sample)
ZZZZZZ	8G57871.D	07/03/24 22:06	OP55866	(unrelated sample)
ZZZZZZ	8G57872.D	07/03/24 22:28	OP55866	(unrelated sample)
ZZZZZZ	8G57873.D	07/03/24 22:50	OP55866	(unrelated sample)
JD91339-9	8G57874.D	07/03/24 23:12	OP55792	GRID-5
JD91339-9	8G57875.D	07/03/24 23:34	OP55792	GRID-5

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: GRL343	**Method:** SW846 8082A	**Instrument ID:** GCRL

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GRL343-IC343	RL15608.D	04/29/24 02:16	n/a	Initial cal 5
GRL343-IC343	RL15609.D	04/29/24 02:33	n/a	Initial cal 10
GRL343-IC343	RL15610.D	04/29/24 02:50	n/a	Initial cal 25
GRL343-IC343	RL15611.D	04/29/24 03:07	n/a	Initial cal 50
GRL343-ICC343	RL15612.D	04/29/24 03:23	n/a	Initial cal 100
GRL343-IC343	RL15613.D	04/29/24 03:40	n/a	Initial cal 200
GRL343-IC343	RL15614.D	04/29/24 03:57	n/a	Initial cal 300
GRL343-IC343	RL15615.D	04/29/24 04:14	n/a	Initial cal 500
GRL343-IC343	RL15616.D	04/29/24 04:31	n/a	Initial cal 1000
GRL343-IC343	RL15617.D	04/29/24 04:47	n/a	Initial cal 2000
GRL343-ICV343	RL15618.D	04/29/24 05:04	n/a	Initial cal verification 100
GRL343-IC343	RL15619.D	04/29/24 05:21	n/a	Initial cal 100
GRL343-IC343	RL15620.D	04/29/24 05:38	n/a	Initial cal 100
GRL343-IC343	RL15621.D	04/29/24 05:55	n/a	Initial cal 100
GRL343-IC343	RL15622.D	04/29/24 06:12	n/a	Initial cal 100
GRL343-IC343	RL15623.D	04/29/24 06:28	n/a	Initial cal 100
GRL343-IC343	RL15624.D	04/29/24 06:45	n/a	Initial cal 100
GRL343-IC343	RL15625.D	04/29/24 07:02	n/a	Initial cal 100
GRL343-ICV343	RL15626.D	04/29/24 07:19	n/a	Initial cal verification 100
GRL343-ICV343	RL15627.D	04/29/24 07:36	n/a	Initial cal verification 100
GRL343-ICV343	RL15628.D	04/29/24 07:53	n/a	Initial cal verification 100
GRL343-ICV343	RL15629.D	04/29/24 08:09	n/a	Initial cal verification 100
GRL343-ICV343	RL15630.D	04/29/24 08:26	n/a	Initial cal verification 100
GRL343-ICV343	RL15631.D	04/29/24 08:43	n/a	Initial cal verification 100
GRL343-ICV343	RL15632.D	04/29/24 09:00	n/a	Initial cal verification 100

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: GRL401	**Method:** SW846 8082A	**Instrument ID:** GCRL

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GRL401-CC343	RL18040.D	07/02/24 15:10	n/a	Continuing cal 50
OP55826-MB1	RL18042.D	07/02/24 15:44	OP55826	Method Blank
OP55826-BS1	RL18043.D	07/02/24 16:00	OP55826	Blank Spike
ZZZZZZ	RL18044.D	07/02/24 16:17	OP55791	(unrelated sample)
OP55826-MS	RL18045.D	07/02/24 16:34	OP55826	Matrix Spike
OP55826-MSD	RL18046.D	07/02/24 16:50	OP55826	Matrix Spike Duplicate
JD91339-13	RL18047.D	07/02/24 17:07	OP55826	DUP-1
JD91339-14	RL18048.D	07/02/24 17:24	OP55826	DUP-2
ZZZZZZ	RL18049.D	07/02/24 17:41	OP55826	(unrelated sample)
ZZZZZZ	RL18050.D	07/02/24 17:57	OP55826	(unrelated sample)
ZZZZZZ	RL18051.D	07/02/24 18:14	OP55826	(unrelated sample)
ZZZZZZ	RL18052.D	07/02/24 18:31	OP55826	(unrelated sample)
ZZZZZZ	RL18053.D	07/02/24 18:47	OP55826	(unrelated sample)
GRL401-CC343	RL18056.D	07/02/24 19:37	n/a	Continuing cal 100
OP55827-MB1	RL18058.D	07/02/24 20:11	OP55827	Method Blank
OP55827-BS1	RL18059.D	07/02/24 20:28	OP55827	Blank Spike
OP55827-MS	RL18060.D	07/02/24 20:45	OP55827	Matrix Spike
OP55827-MSD	RL18061.D	07/02/24 21:01	OP55827	Matrix Spike Duplicate
JD91371-1	RL18062.D	07/02/24 21:18	OP55827	(used for QC only; not part of job JD91339)
ZZZZZZ	RL18063.D	07/02/24 21:35	OP55827	(unrelated sample)
ZZZZZZ	RL18064.D	07/02/24 21:52	OP55827	(unrelated sample)
ZZZZZZ	RL18065.D	07/02/24 22:08	OP55827	(unrelated sample)
ZZZZZZ	RL18066.D	07/02/24 22:25	OP55827	(unrelated sample)
ZZZZZZ	RL18067.D	07/02/24 22:42	OP55827	(unrelated sample)
ZZZZZZ	RL18068.D	07/02/24 22:59	OP55827	(unrelated sample)
ZZZZZZ	RL18069.D	07/02/24 23:15	OP55827	(unrelated sample)
ZZZZZZ	RL18070.D	07/02/24 23:32	OP55827	(unrelated sample)
ZZZZZZ	RL18071.D	07/02/24 23:49	OP55827	(unrelated sample)
ZZZZZZ	RL18072.D	07/03/24 00:06	OP55827	(unrelated sample)
ZZZZZZ	RL18073.D	07/03/24 00:22	OP55827	(unrelated sample)
ZZZZZZ	RL18074.D	07/03/24 00:39	OP55827	(unrelated sample)
ZZZZZZ	RL18075.D	07/03/24 00:56	OP55827	(unrelated sample)
ZZZZZZ	RL18076.D	07/03/24 01:13	OP55827	(unrelated sample)
GRL401-CC343	RL18079.D	07/03/24 02:03	n/a	Continuing cal 50

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: GRM547	**Method:** SW846 8082A	**Instrument ID:** GCRM

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GRM547-IC547	RM24620.D	06/18/24 18:47	n/a	Initial cal 5
GRM547-IC547	RM24621.D	06/18/24 19:04	n/a	Initial cal 10
GRM547-IC547	RM24622.D	06/18/24 19:21	n/a	Initial cal 25
GRM547-IC547	RM24623.D	06/18/24 19:38	n/a	Initial cal 50
GRM547-ICC547	RM24624.D	06/18/24 19:56	n/a	Initial cal 100
GRM547-IC547	RM24625.D	06/18/24 20:13	n/a	Initial cal 200
GRM547-IC547	RM24626.D	06/18/24 20:30	n/a	Initial cal 300
GRM547-IC547	RM24627.D	06/18/24 20:47	n/a	Initial cal 500
GRM547-IC547	RM24628.D	06/18/24 21:04	n/a	Initial cal 1000
GRM547-IC547	RM24629.D	06/18/24 21:22	n/a	Initial cal 2000
GRM547-ICV547	RM24630.D	06/18/24 21:39	n/a	Initial cal verification 100
GRM547-IC547	RM24631.D	06/18/24 21:56	n/a	Initial cal 100
GRM547-IC547	RM24632.D	06/18/24 22:13	n/a	Initial cal 100
GRM547-IC547	RM24633.D	06/18/24 22:31	n/a	Initial cal 100
GRM547-IC547	RM24634.D	06/18/24 22:48	n/a	Initial cal 100
GRM547-IC547	RM24635.D	06/18/24 23:05	n/a	Initial cal 100
GRM547-IC547	RM24636.D	06/18/24 23:23	n/a	Initial cal 100
GRM547-IC547	RM24637.D	06/18/24 23:40	n/a	Initial cal 100
GRM547-ICV547	RM24639.D	06/19/24 00:15	n/a	Initial cal verification 100
GRM547-ICV547	RM24640.D	06/19/24 00:32	n/a	Initial cal verification 100
GRM547-ICV547	RM24641.D	06/19/24 00:50	n/a	Initial cal verification 100
GRM547-ICV547	RM24642.D	06/19/24 01:07	n/a	Initial cal verification 100
GRM547-ICV547	RM24643.D	06/19/24 01:24	n/a	Initial cal verification 100
GRM547-ICV547	RM24644.D	06/19/24 01:42	n/a	Initial cal verification 100
GRM547-ICV547	RM24645.D	06/19/24 01:59	n/a	Initial cal verification 100

Run Sequence Report

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Run ID: GRM560	**Method:** SW846 8082A	**Instrument ID:** GCRM

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
GRM560-CC547	RM25021.D	07/01/24 15:54	n/a	Continuing cal 100
OP55793-MB1	RM25023.D	07/01/24 17:06	OP55793	Method Blank
OP55793-BS1	RM25024.D	07/01/24 17:23	OP55793	Blank Spike
OP55793-MS	RM25025.D	07/01/24 17:41	OP55793	Matrix Spike
OP55793-MSD	RM25026.D	07/01/24 17:59	OP55793	Matrix Spike Duplicate
JD91339-2	RM25027.D	07/01/24 18:17	OP55793	GRID-4
JD91339-1	RM25028.D	07/01/24 18:35	OP55793	GRID-3
JD91339-3	RM25029.D	07/01/24 18:53	OP55793	GRID-20
JD91339-4	RM25030.D	07/01/24 19:10	OP55793	GRID-11
JD91339-5	RM25031.D	07/01/24 19:28	OP55793	GRID-10A
JD91339-6	RM25032.D	07/01/24 19:46	OP55793	GRID-21
JD91339-7	RM25033.D	07/01/24 20:04	OP55793	GRID-9
JD91339-8	RM25034.D	07/01/24 20:22	OP55793	GRID-8A
JD91339-9	RM25035.D	07/01/24 20:40	OP55793	GRID-5
JD91339-10	RM25036.D	07/01/24 20:58	OP55793	GRID-6
JD91339-11	RM25037.D	07/01/24 21:16	OP55793	GRID-7
GRM560-CC547	RM25040.D	07/01/24 22:09	n/a	Continuing cal 50

GC/LC Semi-volatiles

Raw Data

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
07/02/24 10:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\maryannl\1G7072\
Data File : 1g197592.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02-Jul-24, 06:49:54
Operator : christp
Sample : jd91339-12
Misc : op55806,g1g7072,1000,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 11:58:26 2024
Quant Method : C:\msdchem\1\data\maryannl\1G7072\1PST6859a.M
Quant Title : PEST/PCB
QLast Update : Tue Jul 02 10:11:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.055	1.027	450.4E6	431.9E6	50.000	50.000
27) I 1-bromo-2...	1.055	1.027	450.4E6	431.9E6	50.000	50.000
33) I 1-bromo-2...	1.055	1.027	450.4E6	431.9E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	1.492	1.602	663.6E6	437.0E6	76.940m	80.813m
Spiked Amount 40.000	Range 30 - 150		Recovery = 192.35%#		202.03%#	
26) SA Decachlor...	8.170	9.739	417.3E6	428.1E6	47.477	46.546
Spiked Amount 40.000			Recovery = 118.69%		116.37%	
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

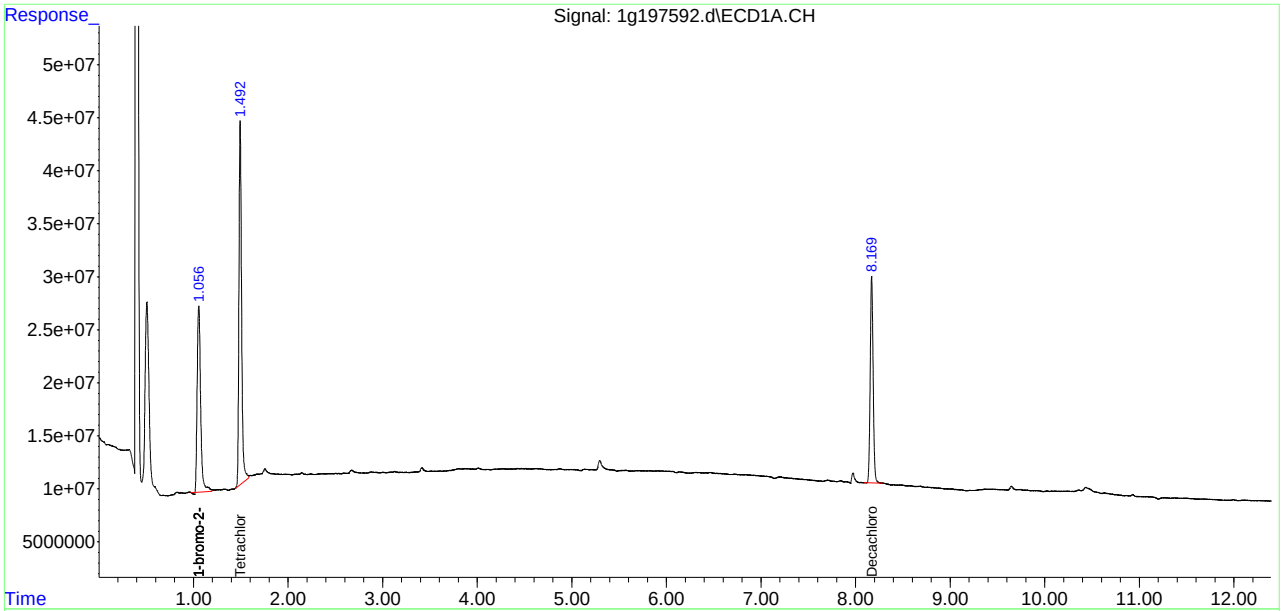
11.1.1 11

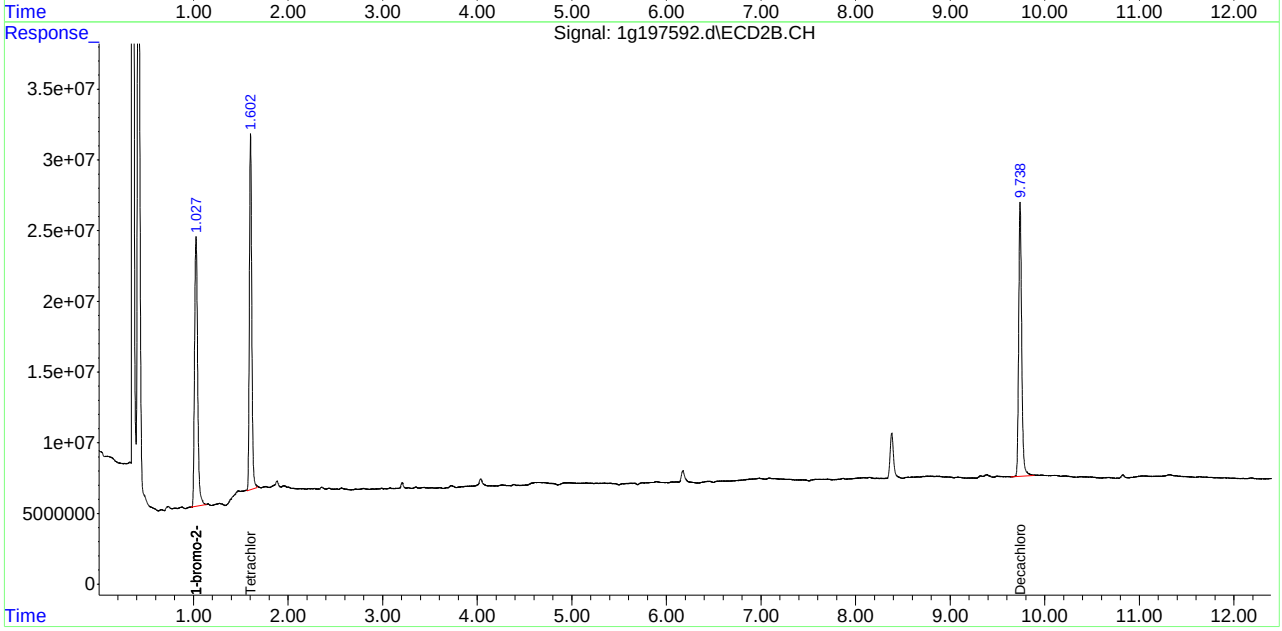
Quantitation Report (QT Reviewed)

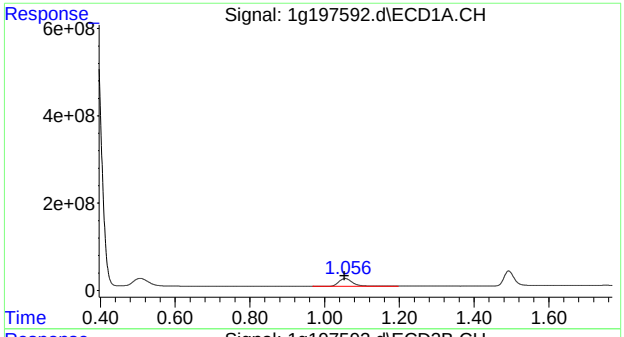
Data Path : C:\msdchem\1\data\maryannl\1G7072\
Data File : 1g197592.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02-Jul-24, 06:49:54
Operator : christp
Sample : jd91339-12
Misc : op55806,g1g7072,1000,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 11:58:26 2024
Quant Method : C:\msdchem\1\data\maryannl\1G7072\1PST6859a.M
Quant Title : PEST/PCB
QLast Update : Tue Jul 02 10:11:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

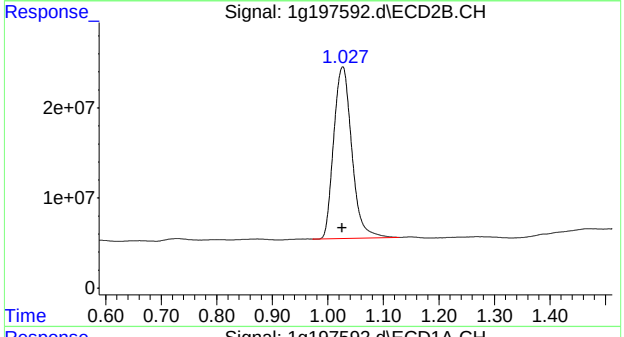






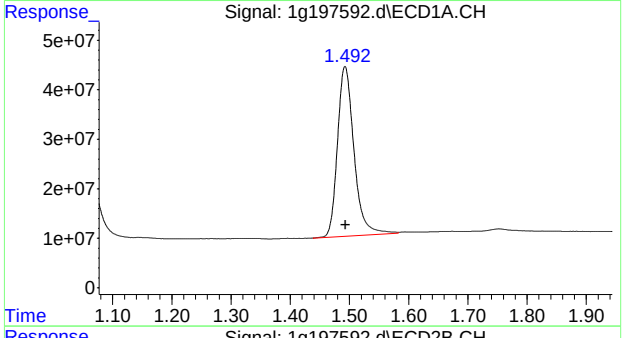
#1 1-bromo-2-nitrobenzene

R.T.: 1.055 min
Delta R.T.: 0.002 min
Response: 450397086
Conc: 50.00 PPB



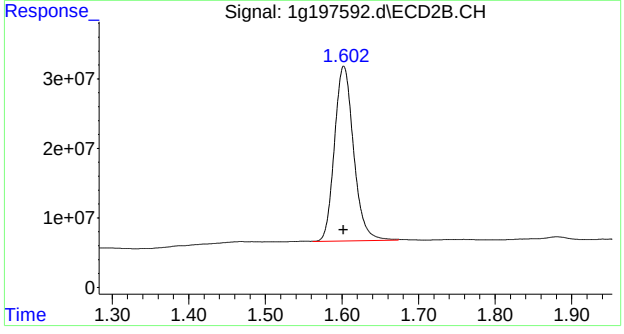
#1 1-bromo-2-nitrobenzene

R.T.: 1.027 min
Delta R.T.: 0.002 min
Response: 431856557
Conc: 50.00 PPB



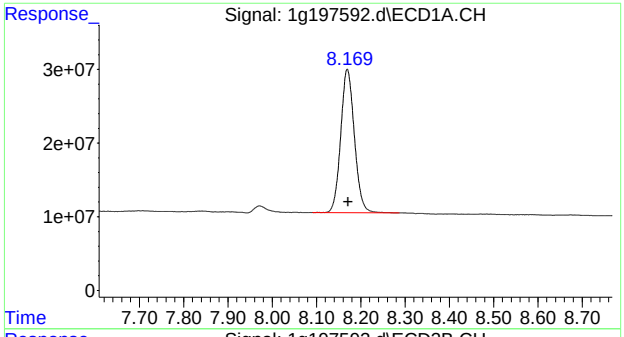
#2 Tetrachloro-m-xylene

R.T.: 1.492 min
Delta R.T.: 0.000 min
Response: 663623907
Conc: 76.94 PPB m



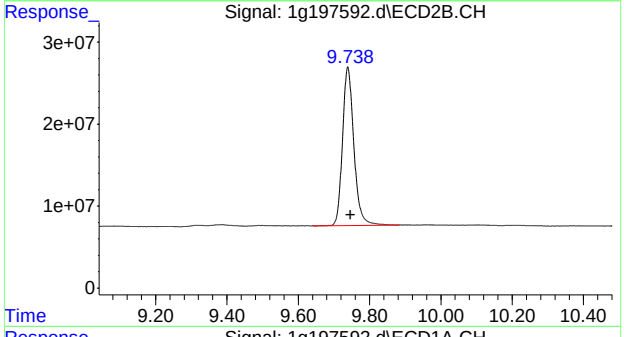
#2 Tetrachloro-m-xylene

R.T.: 1.602 min
Delta R.T.: 0.000 min
Response: 437015642
Conc: 80.81 PPB m



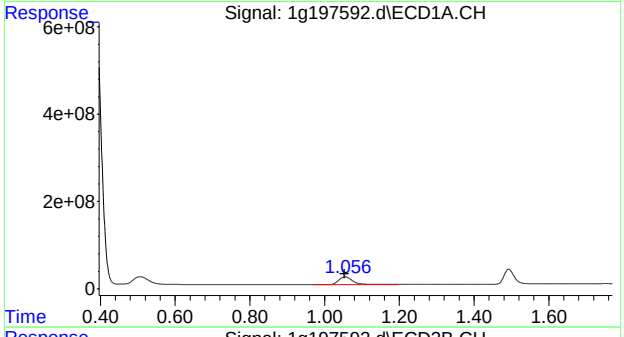
#26 Decachlorobiphenyl

R.T.: 8.170 min
Delta R.T.: -0.002 min
Response: 417280976
Conc: 47.48 PPB



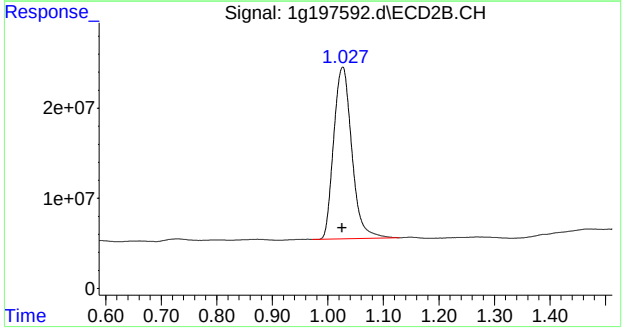
#26 Decachlorobiphenyl

R.T.: 9.739 min
Delta R.T.: -0.008 min
Response: 428103508
Conc: 46.55 PPB



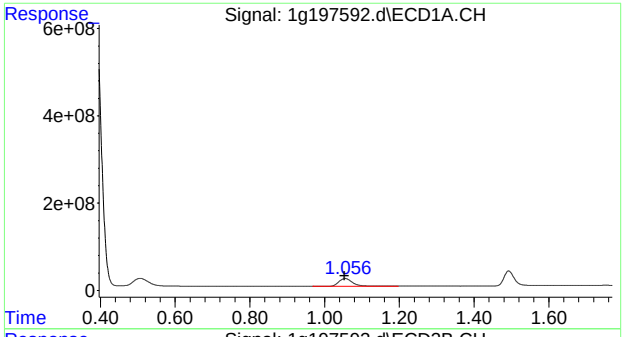
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.055 min
Delta R.T.: 0.003 min
Response: 450397086
Conc: 50.00 PPB



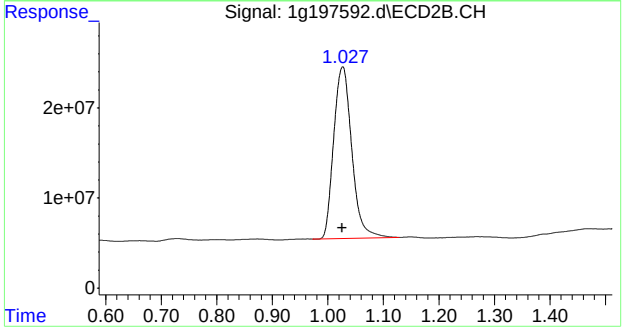
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.027 min
Delta R.T.: 0.002 min
Response: 431856557
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.055 min
Delta R.T.: 0.003 min
Response: 450397086
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.027 min
Delta R.T.: 0.002 min
Response: 431856557
Conc: 50.00 PPB

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\anndg\3G5198\
Data File : 3G141842.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01-Jul-24, 18:04:14
Operator : mahalial
Sample : jd91339-12
Misc : op55807,g3g5198,1000,,,5,1
ALS Vial : 77 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 02:10:24 2024
Quant Method : C:\msdchem\1\data\anndg\3G5198\3PCB5160.M
Quant Title :
QLast Update : Tue Jul 02 01:48:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.453	4.063	628.7E6	1521.0E6	79.583	83.750
	Spiked Amount 40.000			Recovery	=	198.96%	209.38%
51) S	Decachlor...	10.966	12.581	287.5E6	594.2E6	43.195	40.582
	Spiked Amount 40.000			Recovery	=	107.99%	101.46%
	Target Compounds						

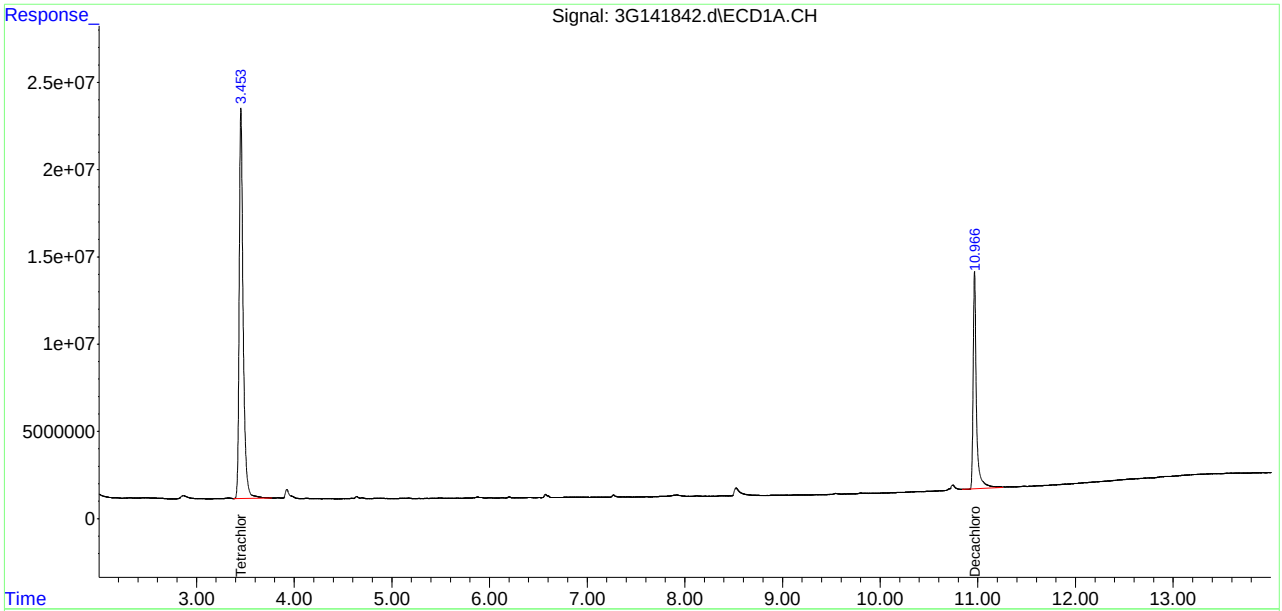
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

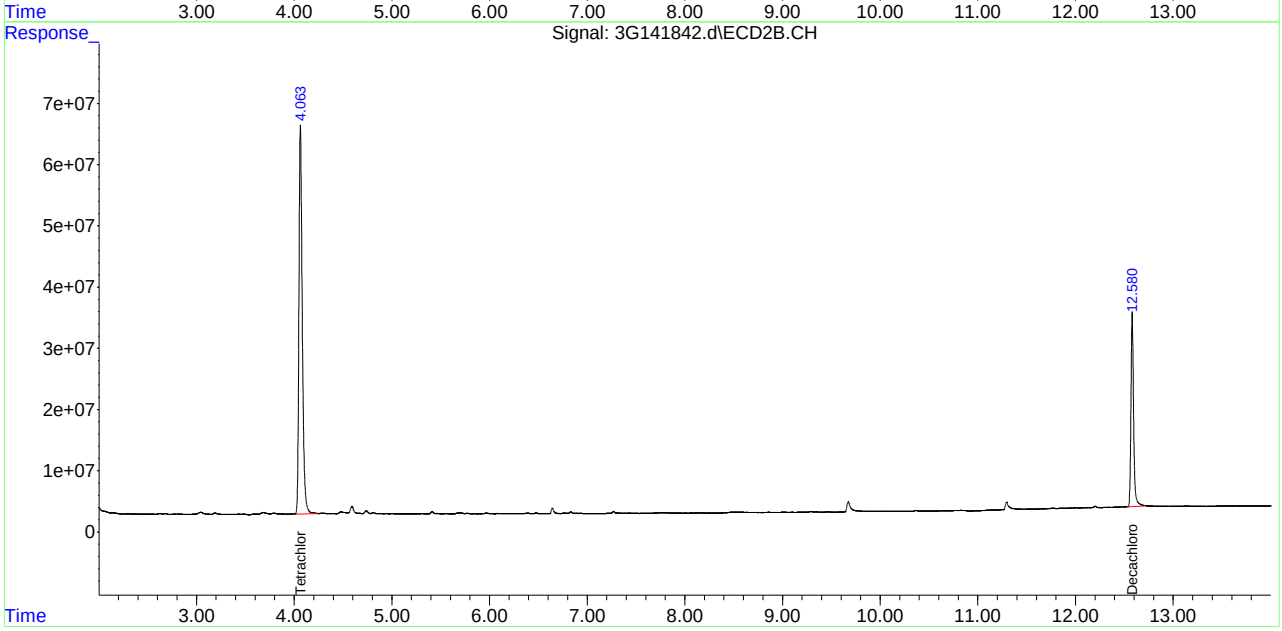
Quantitation Report (QT Reviewed)

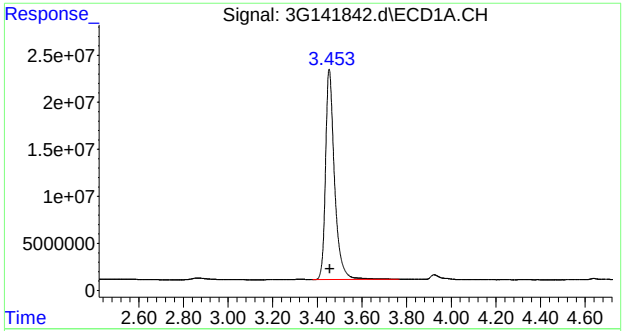
Data Path : C:\msdchem\1\data\anndg\3G5198\
Data File : 3G141842.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01-Jul-24, 18:04:14
Operator : mahalial
Sample : jd91339-12
Misc : op55807,g3g5198,1000,,,5,1
ALS Vial : 77 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 02:10:24 2024
Quant Method : C:\msdchem\1\data\anndg\3G5198\3PCB5160.M
Quant Title :
QLast Update : Tue Jul 02 01:48:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

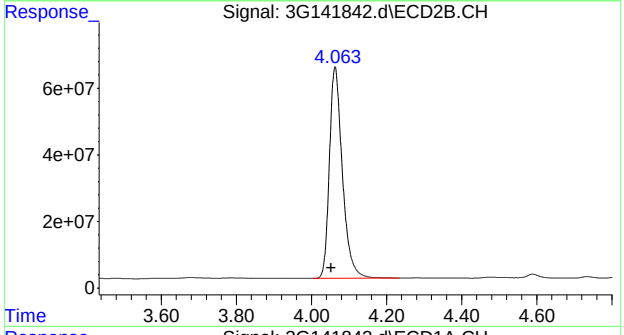






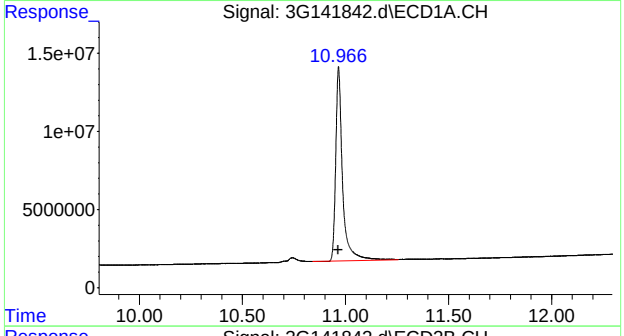
#1 Tetrachloro-m-xylene

R.T.: 3.453 min
Delta R.T.: -0.003 min
Response: 628738400
Conc: 79.58 ppb



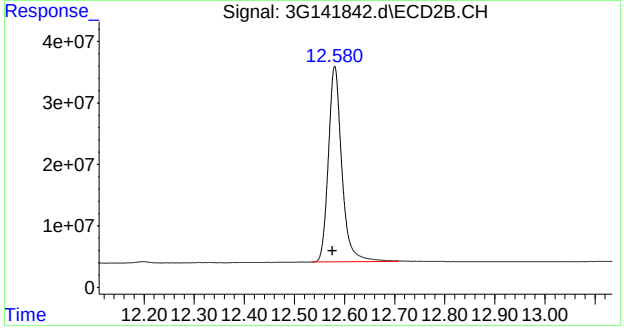
#1 Tetrachloro-m-xylene

R.T.: 4.063 min
Delta R.T.: 0.011 min
Response: 1520992510
Conc: 83.75 ppb



#51 Decachlorobiphenyl

R.T.: 10.966 min
Delta R.T.: 0.002 min
Response: 287461590
Conc: 43.20 ppb



#51 Decachlorobiphenyl

R.T.: 12.581 min
Delta R.T.: 0.005 min
Response: 594178184
Conc: 40.58 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco 07/03/24 07:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738724.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 7:35 pm
Operator : mahalial
Sample : jd91339-1 m
Misc : op55792,g4g4376,5.0,,,10,1
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 09:59:45 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	5.803	6.079	913.9E6	4205.7E6	5.000	5.000
27)	I 1-bromo-2...	5.803	6.079	913.9E6	4205.7E6	5.000	5.000
33)	I 1-bromo-2...	5.803	6.079	913.9E6	4205.7E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	6.497	6.995	511.3E6	3232.3E6	3.276	3.847
	Spiked Amount 40.000	Range 30 - 150		Recovery =		8.19%#	9.62%#
26)	SA Decachlor...	13.978	15.601	540.0E6	2164.1E6	3.253m	4.658m#
	Spiked Amount 40.000			Recovery =		8.13%	11.65%
	Target Compounds						
11)	B Heptachlo...	8.928	10.066	12988935	107.2E6	0.058m	0.103m#
12)	B gamma-Chl...	9.096	10.356	7040960	74369193	0.030m	0.074m#
13)	B alpha-Chl...	9.250f	10.588	93391647	99636397	0.401m	0.106m#
15)	B 4,4'-DDE	9.381	10.849	110.0E6	489.5E6	0.501m	0.491m
16)	MA Dieldrin	9.779	11.123	17841861	91661602	0.075m	0.089m
19)	B Endosulfa...	10.438	11.989	4557780	116.4E6	0.022m	0.135m#
20)	MA 4,4'-DDT	10.647	12.344	126.6E6	626.1E6	0.752	0.771m

SemiQuant Compounds - Not Calibrated on this Instrument

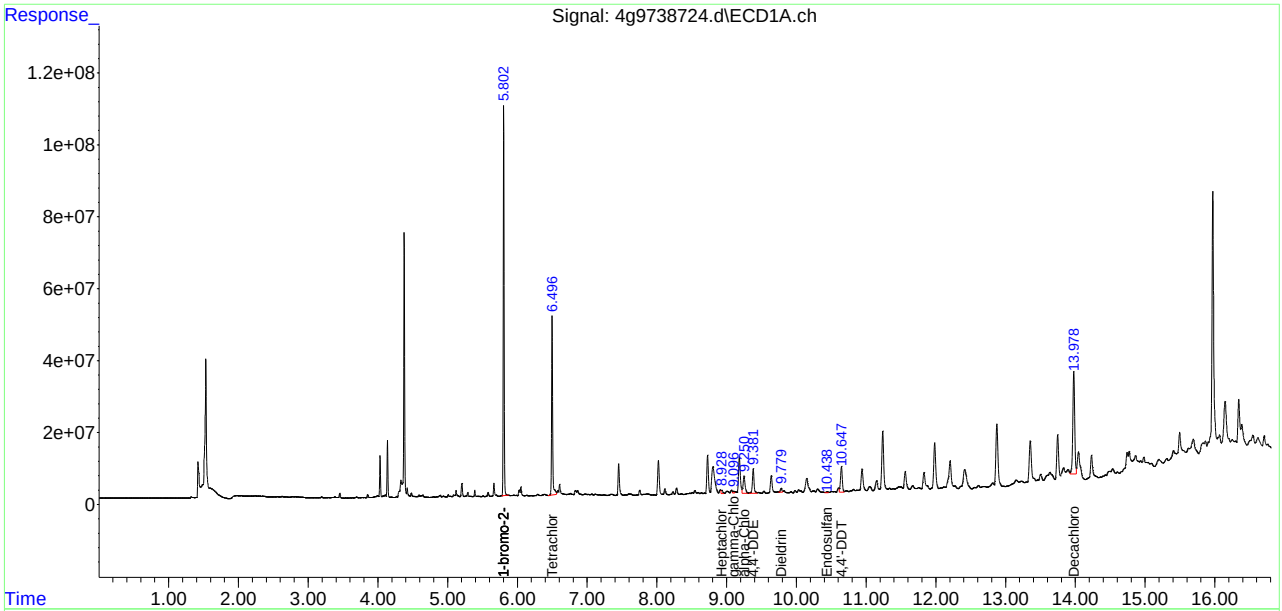
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

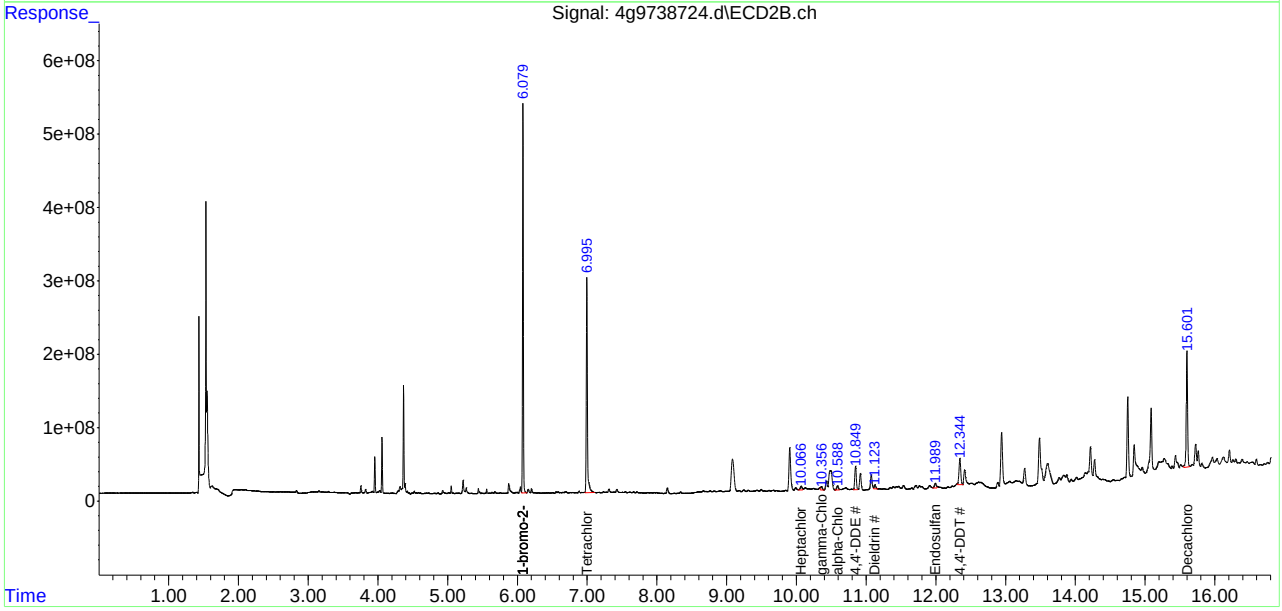
Quantitation Report (QT Reviewed)

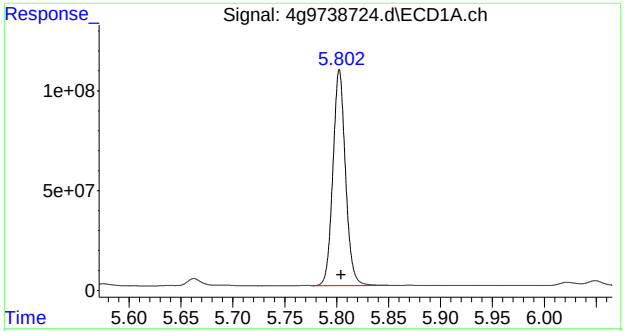
Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738724.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 7:35 pm
Operator : mahalial
Sample : jd91339-1 m
Misc : op55792,g4g4376,5.0,,,10,1
ALS Vial : 91 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 09:59:45 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

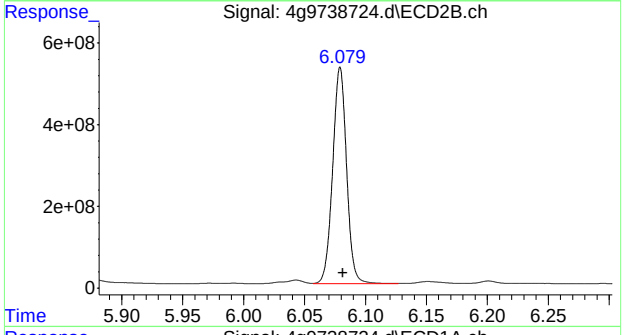






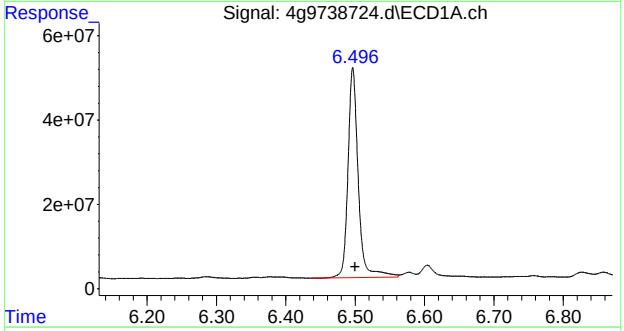
#1 1-bromo-2-nitrobenzene

R.T.: 5.803 min
Delta R.T.: -0.001 min
Response: 913942681
Conc: 5.00 PPB



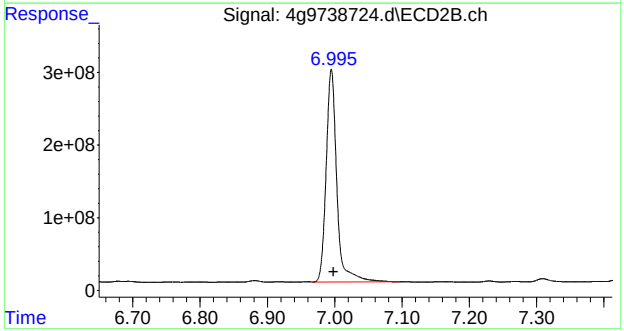
#1 1-bromo-2-nitrobenzene

R.T.: 6.079 min
Delta R.T.: -0.002 min
Response: 4205698554
Conc: 5.00 PPB



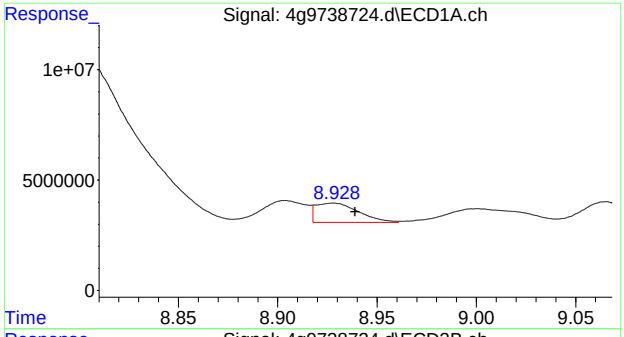
#2 Tetrachloro-m-xylene

R.T.: 6.497 min
Delta R.T.: -0.003 min
Response: 511305449
Conc: 3.28 PPB



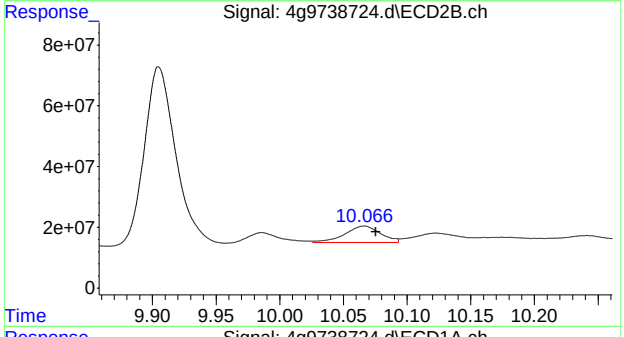
#2 Tetrachloro-m-xylene

R.T.: 6.995 min
Delta R.T.: -0.003 min
Response: 3232278281
Conc: 3.85 PPB



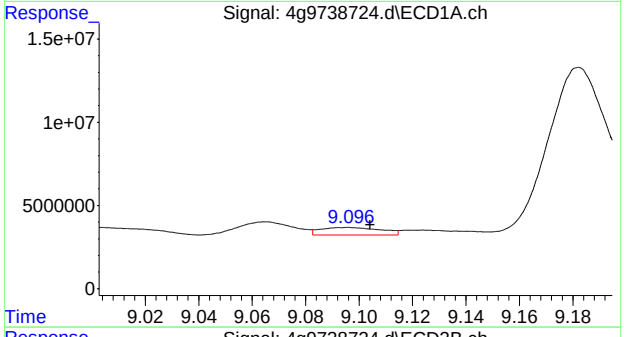
#11 Heptachlor Epoxide

R.T.: 8.928 min
Delta R.T.: -0.011 min
Response: 12988935
Conc: 0.06 PPB m



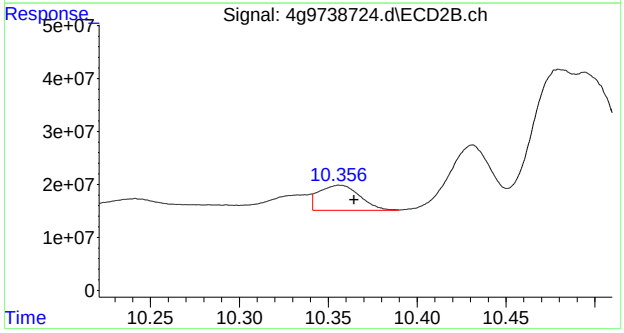
#11 Heptachlor Epoxide

R.T.: 10.066 min
Delta R.T.: -0.009 min
Response: 107160065
Conc: 0.10 PPB m



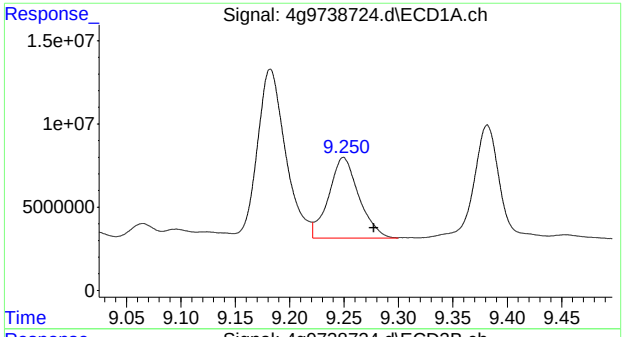
#12 gamma-Chlordane

R.T.: 9.096 min
Delta R.T.: -0.008 min
Response: 7040960
Conc: 0.03 PPB m



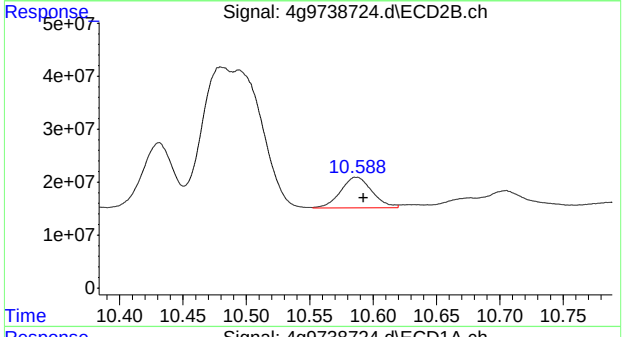
#12 gamma-Chlordane

R.T.: 10.356 min
Delta R.T.: -0.009 min
Response: 74369193
Conc: 0.07 PPB m



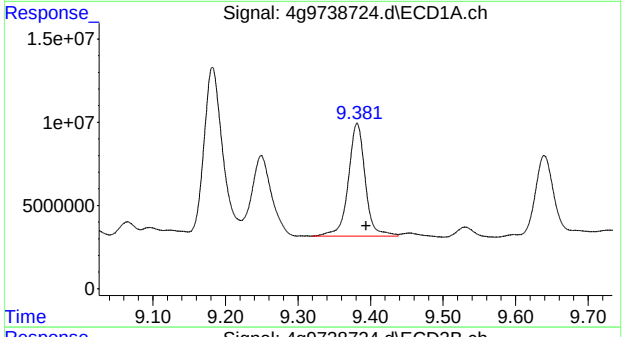
#13 alpha-Chlordane

R.T.: 9.250 min
Delta R.T.: -0.028 min
Response: 93391647
Conc: 0.40 PPB m



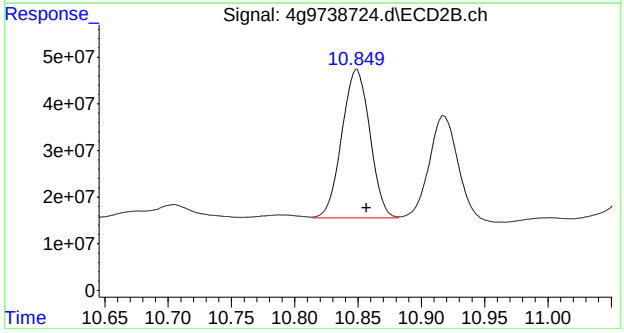
#13 alpha-Chlordane

R.T.: 10.588 min
Delta R.T.: -0.005 min
Response: 99636397
Conc: 0.11 PPB m



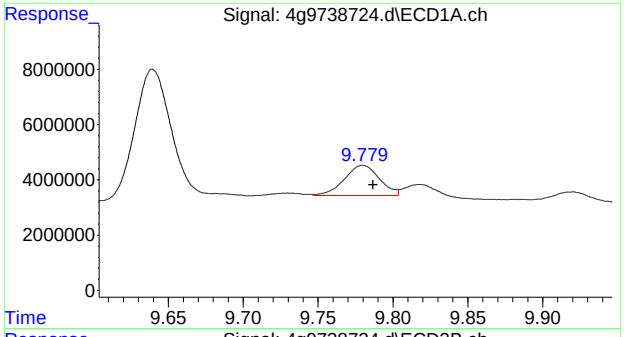
#15 4,4'-DDE

R.T.: 9.381 min
Delta R.T.: -0.012 min
Response: 110026505
Conc: 0.50 PPB m



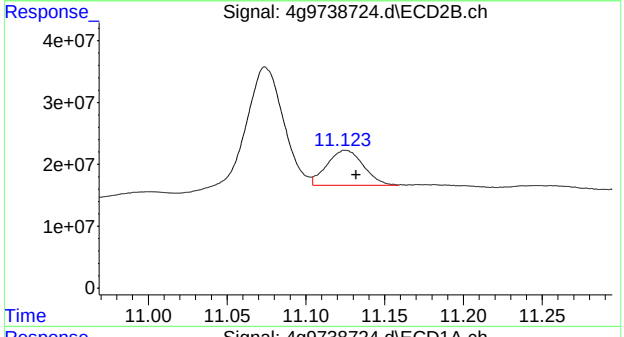
#15 4,4'-DDE

R.T.: 10.849 min
Delta R.T.: -0.008 min
Response: 489451324
Conc: 0.49 PPB m



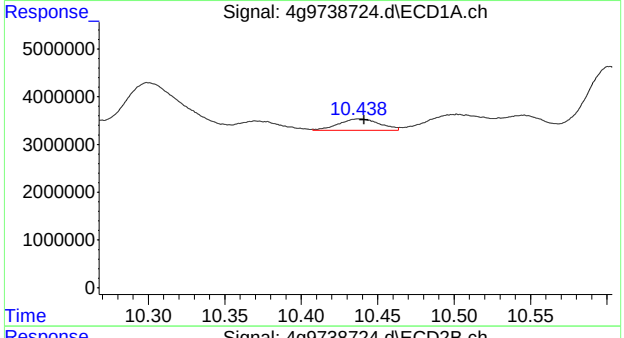
#16 Dieldrin

R.T.: 9.779 min
Delta R.T.: -0.008 min
Response: 17841861
Conc: 0.08 PPB m



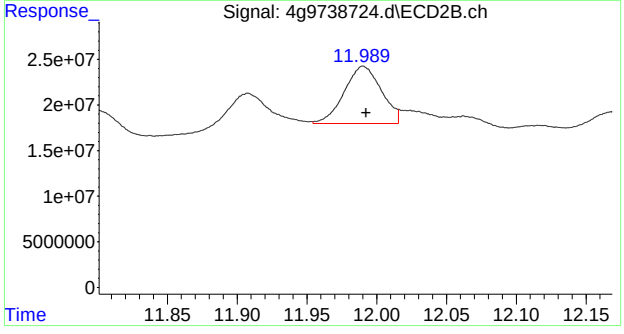
#16 Dieldrin

R.T.: 11.123 min
Delta R.T.: -0.009 min
Response: 91661602
Conc: 0.09 PPB m



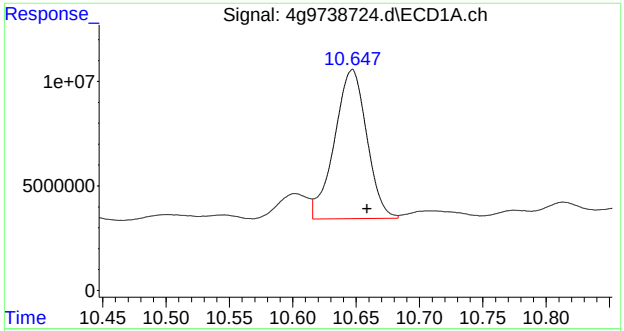
#19 Endosulfan II

R.T.: 10.438 min
Delta R.T.: -0.004 min
Response: 4557780
Conc: 0.02 PPB m



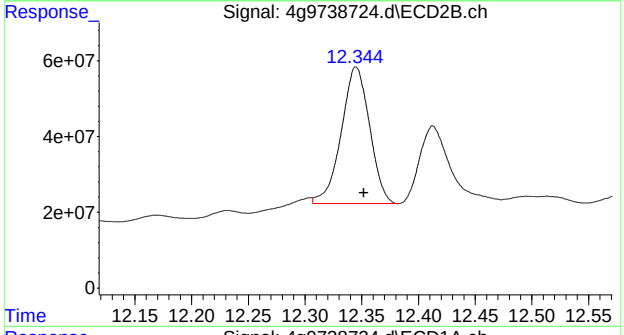
#19 Endosulfan II

R.T.: 11.989 min
Delta R.T.: -0.003 min
Response: 116413517
Conc: 0.13 PPB m



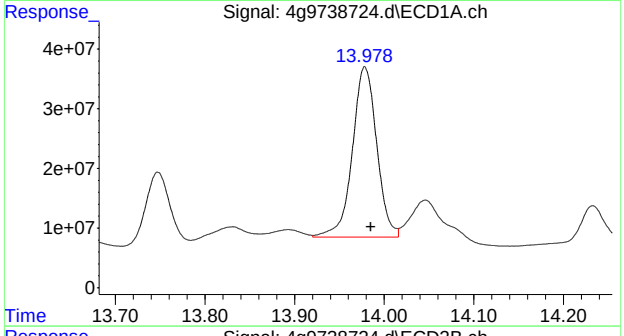
#20 4,4'-DDT

R.T.: 10.647 min
Delta R.T.: -0.012 min
Response: 126606888
Conc: 0.75 PPB



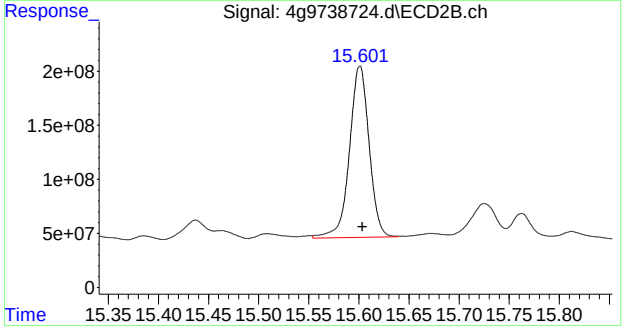
#20 4,4'-DDT

R.T.: 12.344 min
Delta R.T.: -0.008 min
Response: 626093067
Conc: 0.77 PPB m



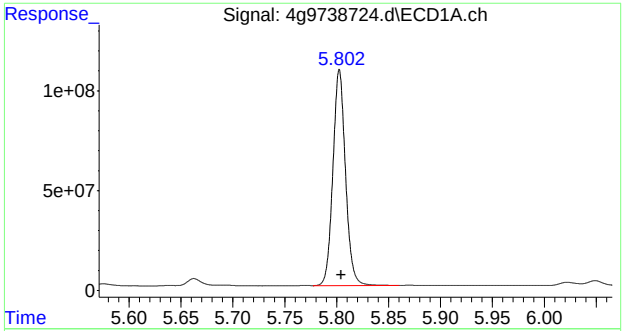
#26 Decachlorobiphenyl

R.T.: 13.978 min
Delta R.T.: -0.007 min
Response: 539967004
Conc: 3.25 PPB m



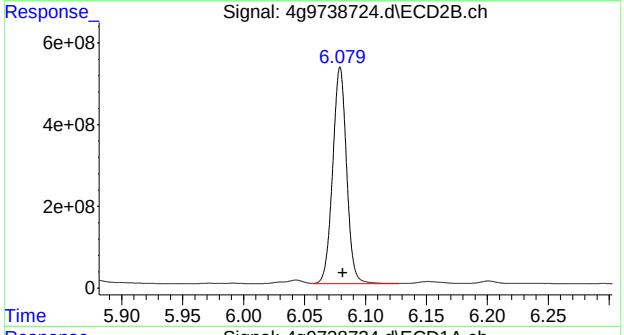
#26 Decachlorobiphenyl

R.T.: 15.601 min
Delta R.T.: -0.002 min
Response: 2164100143
Conc: 4.66 PPB m



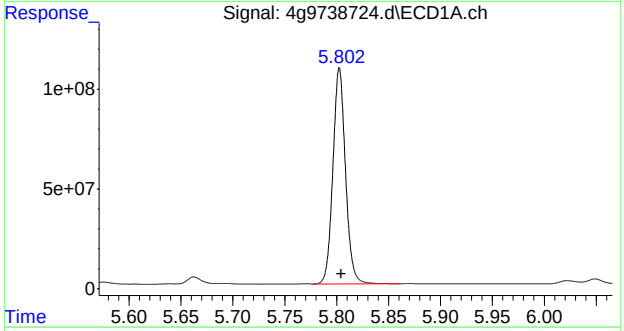
#27 1-bromo-2-nitrobenzeneA

R.T.: 5.803 min
Delta R.T.: -0.002 min
Response: 913942681
Conc: 5.00 PPB



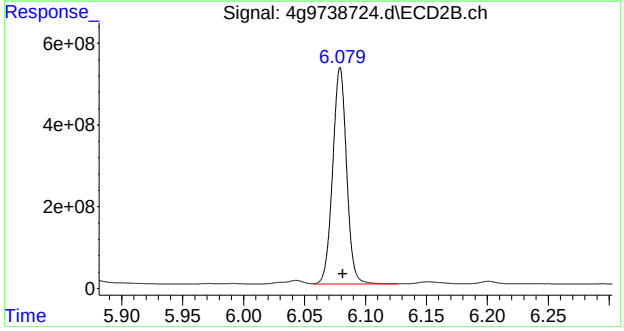
#27 1-bromo-2-nitrobenzeneA

R.T.: 6.079 min
Delta R.T.: -0.002 min
Response: 4205698554
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 5.803 min
Delta R.T.: -0.002 min
Response: 913942681
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 6.079 min
Delta R.T.: -0.002 min
Response: 4205698554
Conc: 5.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Syra Marie Pacheco
07/03/24 07:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738725.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 7:58 pm
Operator : mahalial
Sample : jd91339-2 m
Misc : op55792,g4g4376,5.3,,,10,1
ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:42:27 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	5.805	6.078	1694.0E6	4028.4E6	5.000m	5.000
27)	I 1-bromo-2...	5.805	6.078	1695.6E6	4028.4E6	5.000m	5.000
33)	I 1-bromo-2...	5.805	6.078	1700.6E6	4028.4E6	5.000m	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	6.495	6.993	494.6E6	2958.1E6	1.710	3.676 #
	Spiked Amount 40.000	Range 30 - 150		Recovery =		4.27%#	9.19%#
26)	SA Decachlor...	13.981	15.606	561.2E6	6831.6E6	1.824m	15.351m#
	Spiked Amount 40.000			Recovery =		4.56%	38.38%
	Target Compounds						
4)	A alpha-BHC	7.001f	7.705	26010396	35071260	0.047m	0.025m#
11)	B Heptachlo...	8.927	10.067	352.1E6	1067.6E6	0.853	1.075 #
12)	B gamma-Chl...	9.091	10.357	632.1E6	2393.7E6	1.438m	2.477m#
13)	B alpha-Chl...	9.265	10.585	1216.5E6	3529.2E6	2.821	3.929 #
14)	A Endosulfan I	9.451	10.662f	123.2E6	314.4E6	0.303m	0.277m
15)	B 4,4'-DDE	9.377f	10.847	497.3E6	1715.1E6	1.223	1.796 #
16)	MA Dieldrin	9.776	11.123	40321184	169.6E6	0.092m	0.171m#
18)	A 4,4'-DDD	10.225f	11.802	104.6E6	688.7E6	0.325m	0.886m#
19)	B Endosulfa...	10.439	11.986	22104710	672.5E6	0.058m	0.811m#
20)	MA 4,4'-DDT	10.644	12.347	430.2E6	1471.4E6	1.379m	1.892m#
23)	A Methoxychlor	11.463f	13.588	172.7E6	1009.2E6	1.135m	2.925m#

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

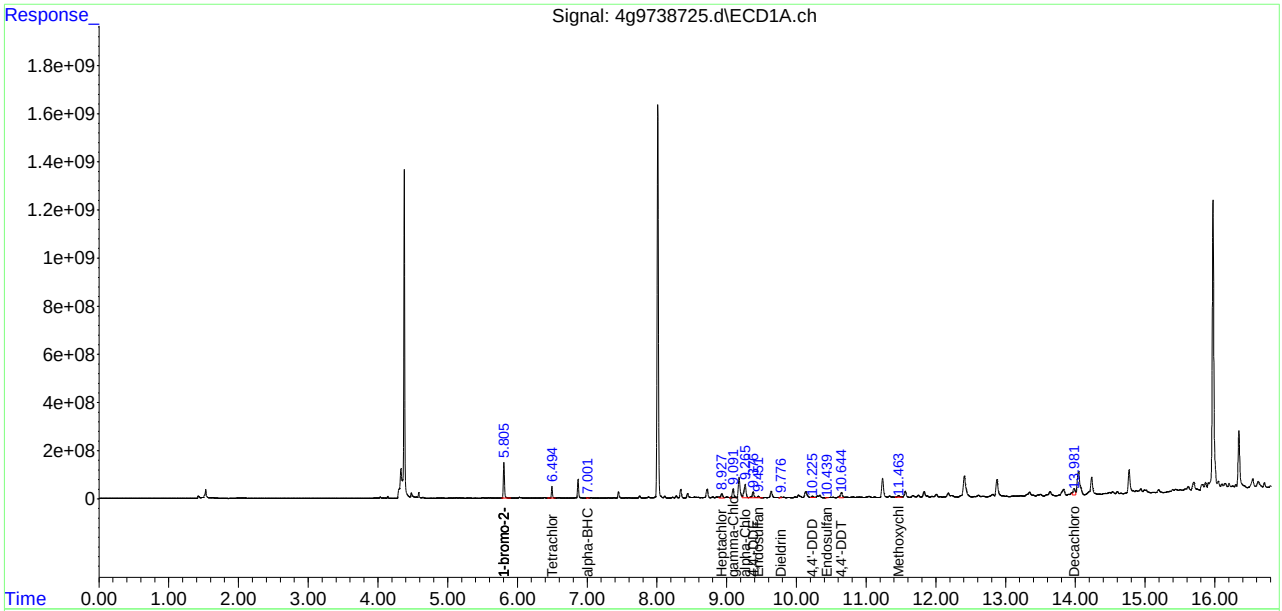
11.1.4 11

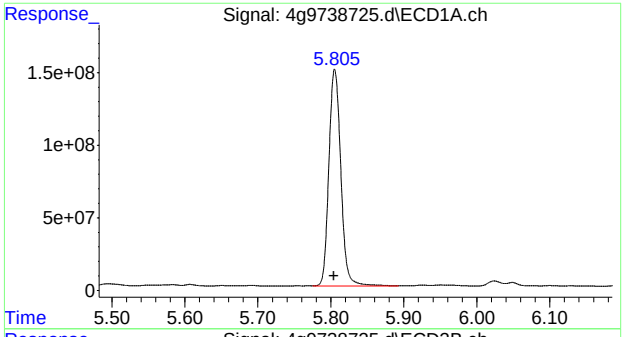
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738725.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 7:58 pm
Operator : mahalial
Sample : jd91339-2 m
Misc : op55792,g4g4376,5.3,,,10,1
ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:42:27 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

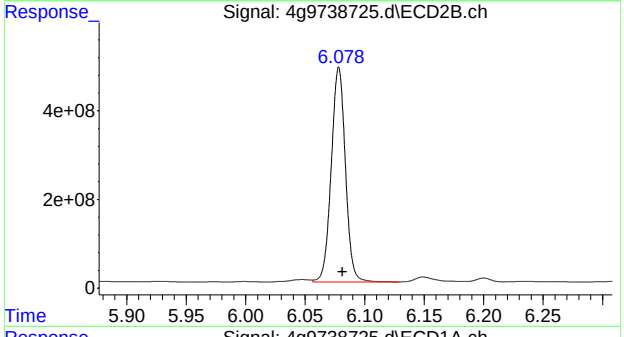
Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





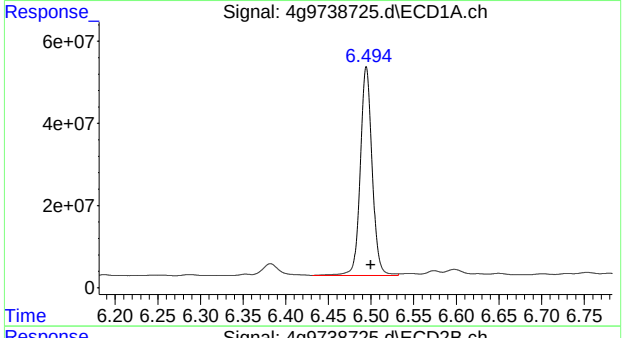
#1 1-bromo-2-nitrobenzene

R.T.: 5.805 min
Delta R.T.: 0.000 min
Response: 1693968414
Conc: 5.00 PPB m



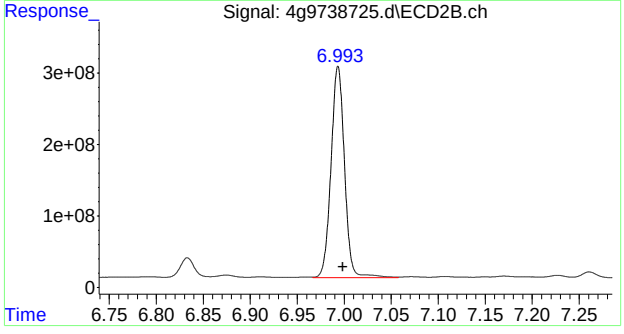
#1 1-bromo-2-nitrobenzene

R.T.: 6.078 min
Delta R.T.: -0.003 min
Response: 4028424465
Conc: 5.00 PPB



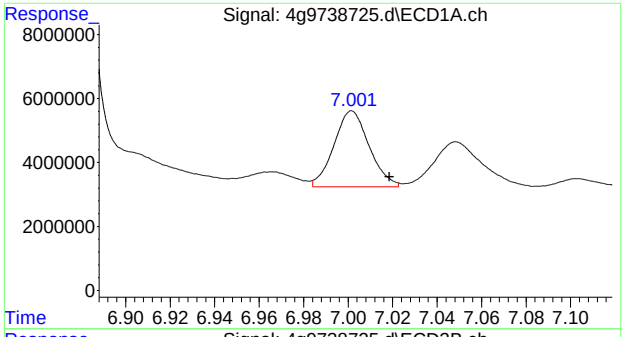
#2 Tetrachloro-m-xylene

R.T.: 6.495 min
Delta R.T.: -0.005 min
Response: 494575950
Conc: 1.71 PPB



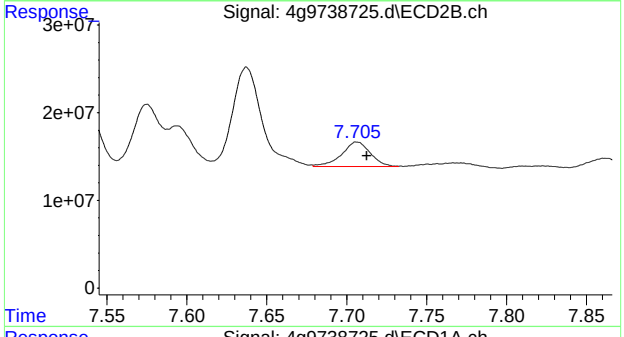
#2 Tetrachloro-m-xylene

R.T.: 6.993 min
Delta R.T.: -0.005 min
Response: 2958149283
Conc: 3.68 PPB



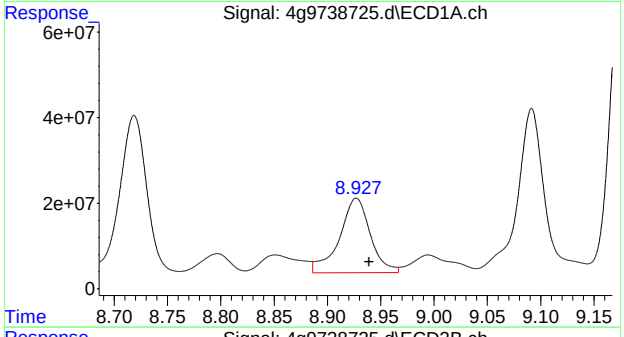
#4 alpha-BHC

R.T.: 7.001 min
Delta R.T.: -0.017 min
Response: 26010396
Conc: 0.05 PPB m



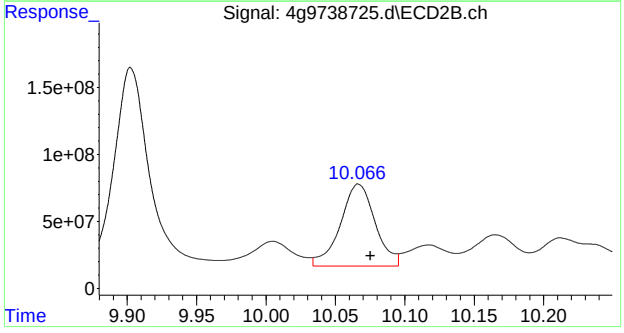
#4 alpha-BHC

R.T.: 7.705 min
Delta R.T.: -0.008 min
Response: 35071260
Conc: 0.02 PPB m



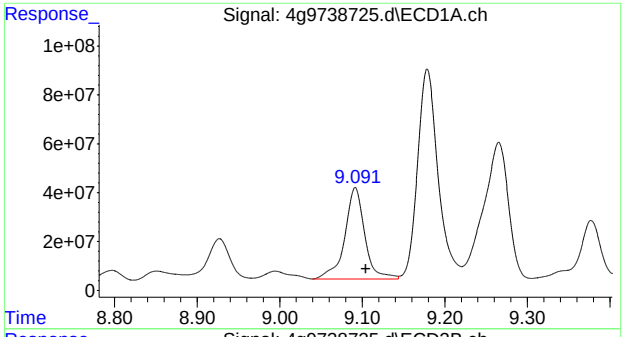
#11 Heptachlor Epoxide

R.T.: 8.927 min
Delta R.T.: -0.012 min
Response: 352079146
Conc: 0.85 PPB



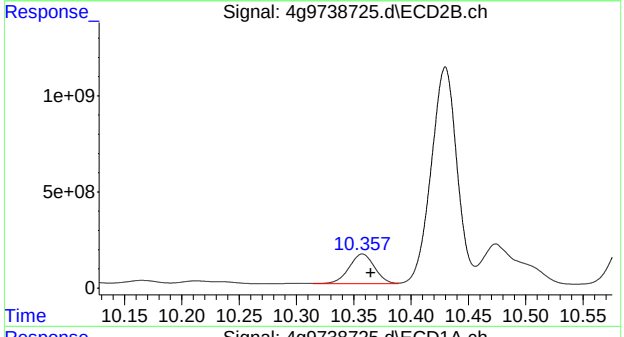
#11 Heptachlor Epoxide

R.T.: 10.067 min
Delta R.T.: -0.009 min
Response: 1067647178
Conc: 1.07 PPB



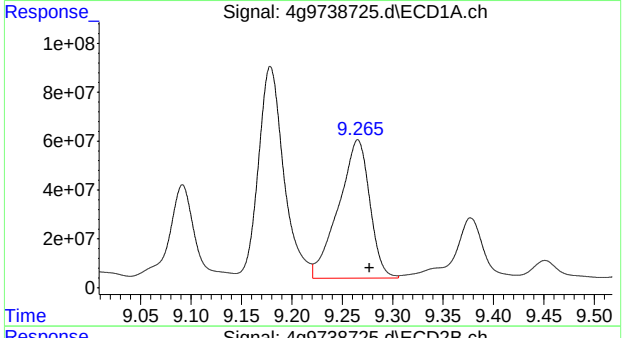
#12 gamma-Chlordane

R.T.: 9.091 min
Delta R.T.: -0.013 min
Response: 632065501
Conc: 1.44 PPB m



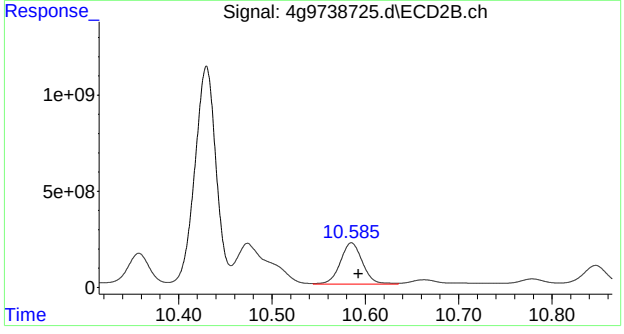
#12 gamma-Chlordane

R.T.: 10.357 min
Delta R.T.: -0.007 min
Response: 2393697715
Conc: 2.48 PPB m



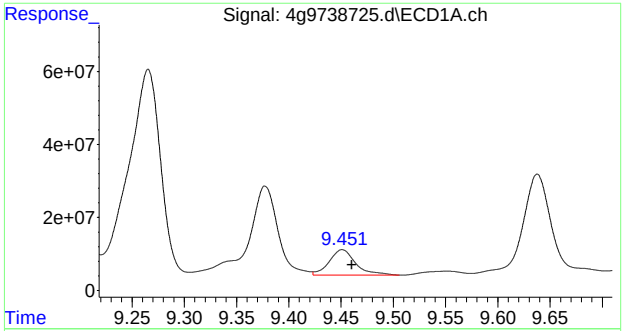
#13 alpha-Chlordane

R.T.: 9.265 min
Delta R.T.: -0.012 min
Response: 1216529128
Conc: 2.82 PPB



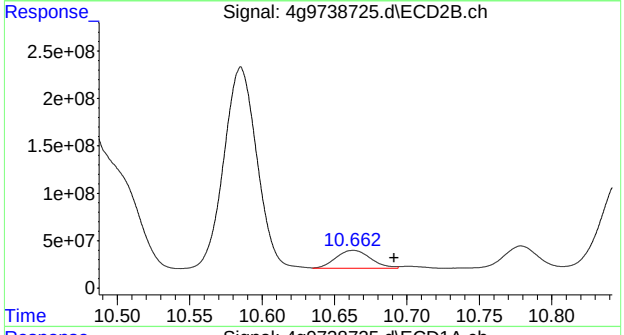
#13 alpha-Chlordane

R.T.: 10.585 min
Delta R.T.: -0.007 min
Response: 3529243406
Conc: 3.93 PPB



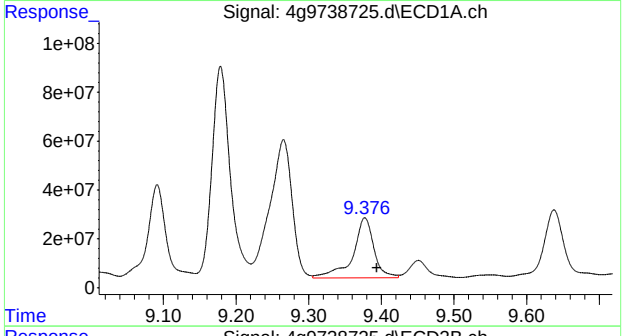
#14 Endosulfan I

R.T.: 9.451 min
Delta R.T.: -0.009 min
Response: 123247834
Conc: 0.30 PPB m



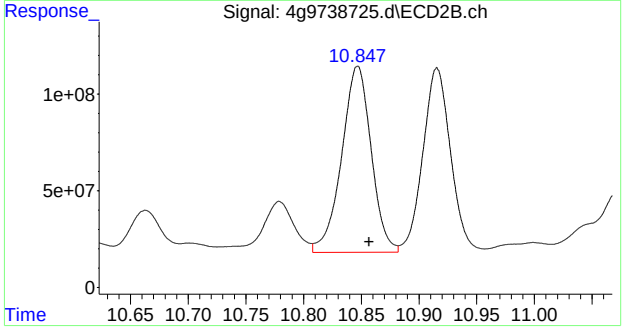
#14 Endosulfan I

R.T.: 10.662 min
Delta R.T.: -0.029 min
Response: 314403967
Conc: 0.28 PPB m



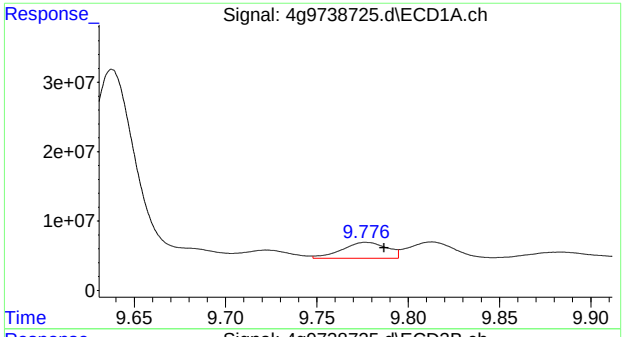
#15 4,4'-DDE

R.T.: 9.377 min
Delta R.T.: -0.017 min
Response: 497289416
Conc: 1.22 PPB



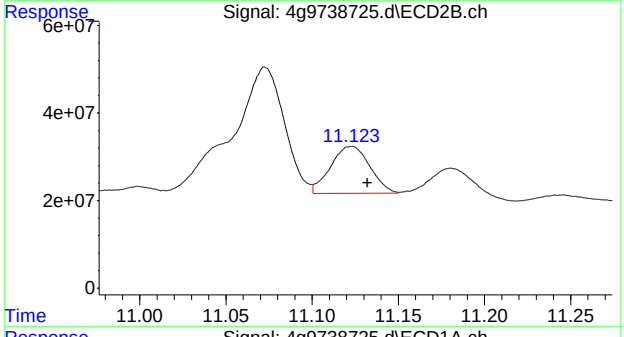
#15 4,4'-DDE

R.T.: 10.847 min
Delta R.T.: -0.010 min
Response: 1715077385
Conc: 1.80 PPB



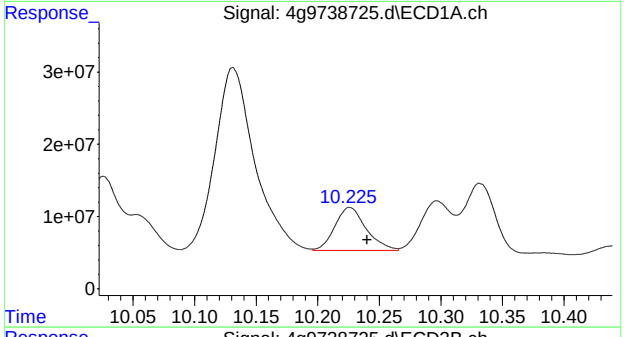
#16 Dieldrin

R.T.: 9.776 min
Delta R.T.: -0.011 min
Response: 40321184
Conc: 0.09 PPB m



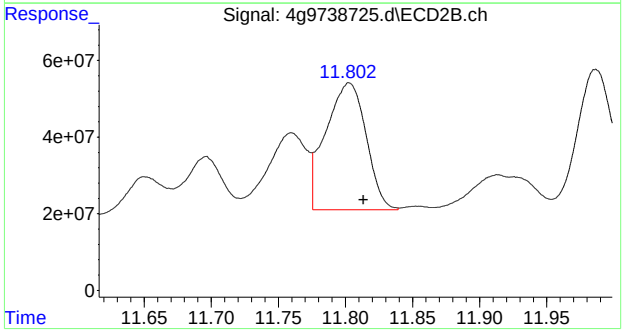
#16 Dieldrin

R.T.: 11.123 min
Delta R.T.: -0.009 min
Response: 169585408
Conc: 0.17 PPB m



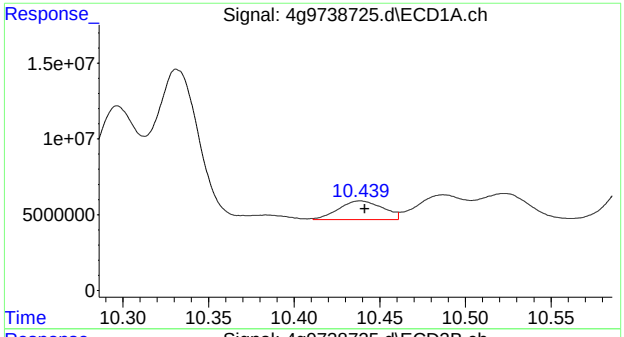
#18 4,4'-DDD

R.T.: 10.225 min
Delta R.T.: -0.015 min
Response: 104622323
Conc: 0.33 PPB m



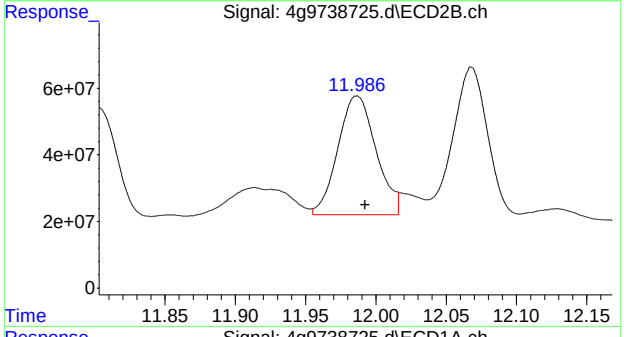
#18 4,4'-DDD

R.T.: 11.802 min
Delta R.T.: -0.011 min
Response: 688710435
Conc: 0.89 PPB m



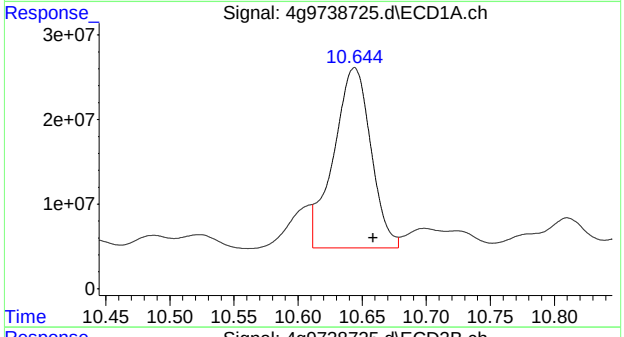
#19 Endosulfan II

R.T.: 10.439 min
Delta R.T.: -0.002 min
Response: 22104710
Conc: 0.06 PPB m



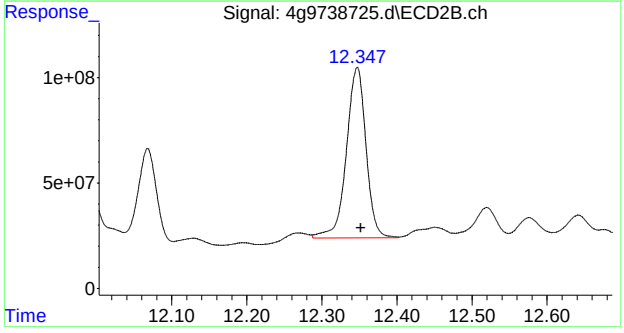
#19 Endosulfan II

R.T.: 11.986 min
Delta R.T.: -0.006 min
Response: 672482329
Conc: 0.81 PPB m



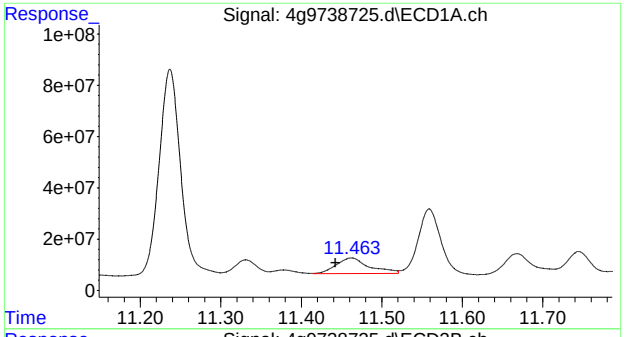
#20 4,4'-DDT

R.T.: 10.644 min
Delta R.T.: -0.015 min
Response: 430217752
Conc: 1.38 PPB m



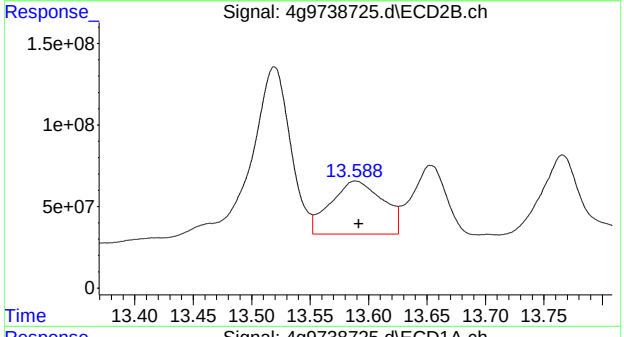
#20 4,4'-DDT

R.T.: 12.347 min
Delta R.T.: -0.004 min
Response: 1471417650
Conc: 1.89 PPB m



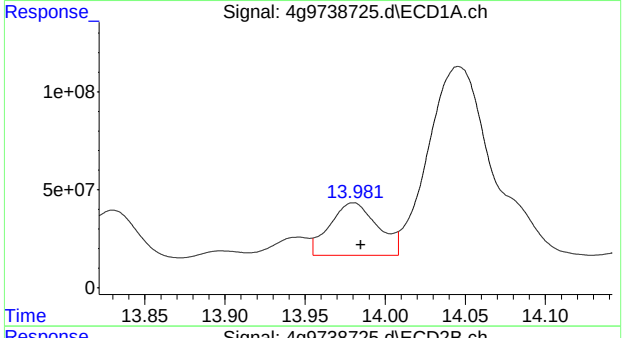
#23 Methoxychlor

R.T.: 11.463 min
Delta R.T.: 0.021 min
Response: 172747447
Conc: 1.14 PPB m



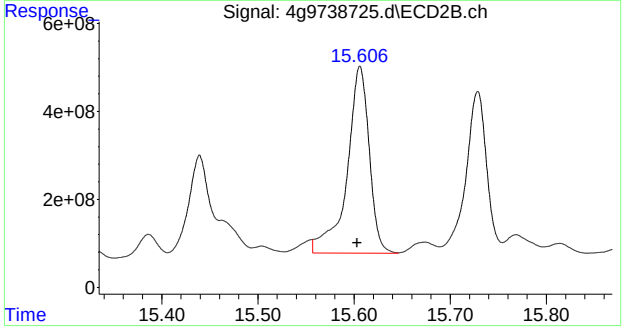
#23 Methoxychlor

R.T.: 13.588 min
Delta R.T.: -0.004 min
Response: 1009210981
Conc: 2.93 PPB m



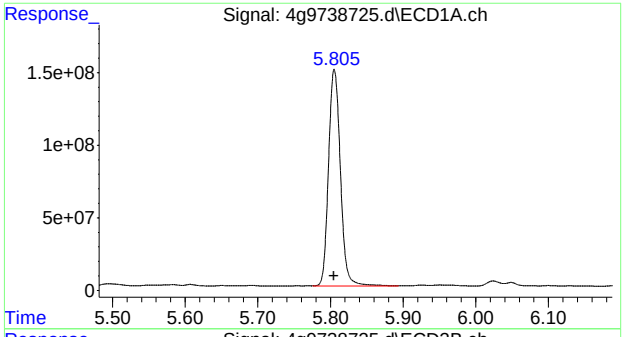
#26 Decachlorobiphenyl

R.T.: 13.981 min
Delta R.T.: -0.004 min
Response: 561236679
Conc: 1.82 PPB m



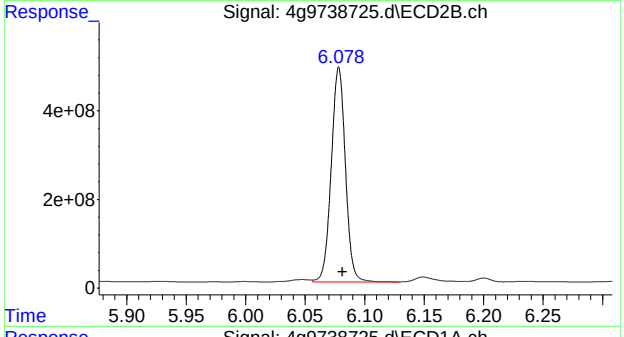
#26 Decachlorobiphenyl

R.T.: 15.606 min
Delta R.T.: 0.002 min
Response: 6831579525
Conc: 15.35 PPB m



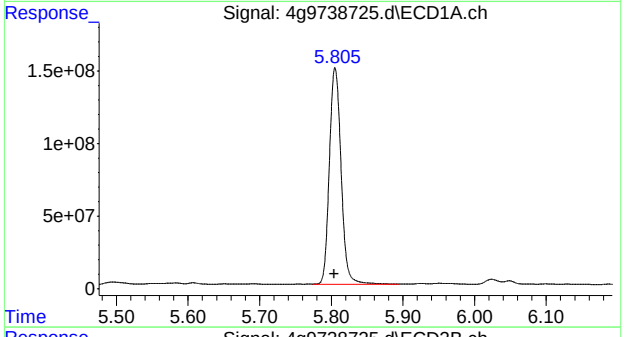
#27 1-bromo-2-nitrobenzeneA

R.T.: 5.805 min
Delta R.T.: 0.000 min
Response: 1695571737
Conc: 5.00 PPB m



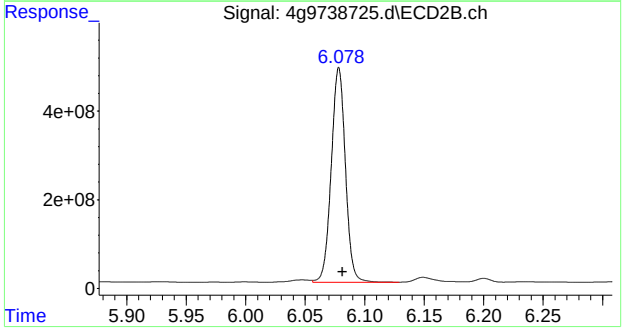
#27 1-bromo-2-nitrobenzeneA

R.T.: 6.078 min
Delta R.T.: -0.003 min
Response: 4028424465
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 5.805 min
Delta R.T.: 0.000 min
Response: 1700584266
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 6.078 min
Delta R.T.: -0.003 min
Response: 4028424465
Conc: 5.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco 07/03/24 07:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738726.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 8:20 pm
Operator : mahalial
Sample : jd91339-3 m
Misc : op55792,g4g4376,5.0,,,10,1
ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:12:00 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	5.810	6.078	3812.5E6	4214.3E6	5.000	5.000
27)	I 1-bromo-2...	5.810	6.078	3812.5E6	4214.3E6	5.000	5.000
33)	I 1-bromo-2...	5.810	6.078	3812.5E6	4214.3E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	6.494	6.993	469.0E6	2715.3E6	0.720m	3.225m#
	Spiked Amount 40.000	Range 30 - 150		Recovery =		1.80%#	8.06%#
26)	SA Decachlor...	13.980	15.611	792.7E6	14287.4E6	1.145m	30.689m#
	Spiked Amount 40.000			Recovery =		2.86%	76.72%
	Target Compounds						
11)	B Heptachlo...	8.925	10.070	20839436	49231913	0.022m	0.047m#
12)	B gamma-Chl...	9.098	10.361	58044516	553.1E6	0.059m	0.547m#
13)	B alpha-Chl...	9.263	10.585	54777739	256.9E6	0.056m	0.273m#
15)	B 4,4'-DDE	9.378f	10.848	292.6E6	972.0E6	0.320m	0.973m#
17)	MA Endrin	10.142f	11.651	1248.3E6	300.6E6	1.457m	0.338m#
18)	A 4,4'-DDD	10.249	11.790f	138.9E6	1132.7E6	0.192m	1.392m#
19)	B Endosulfa...	10.437	11.987	21244622	1038.0E6	0.025m	1.197m#
20)	MA 4,4'-DDT	10.641f	12.349	319.6E6	812.7E6	0.455m	0.999m#
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

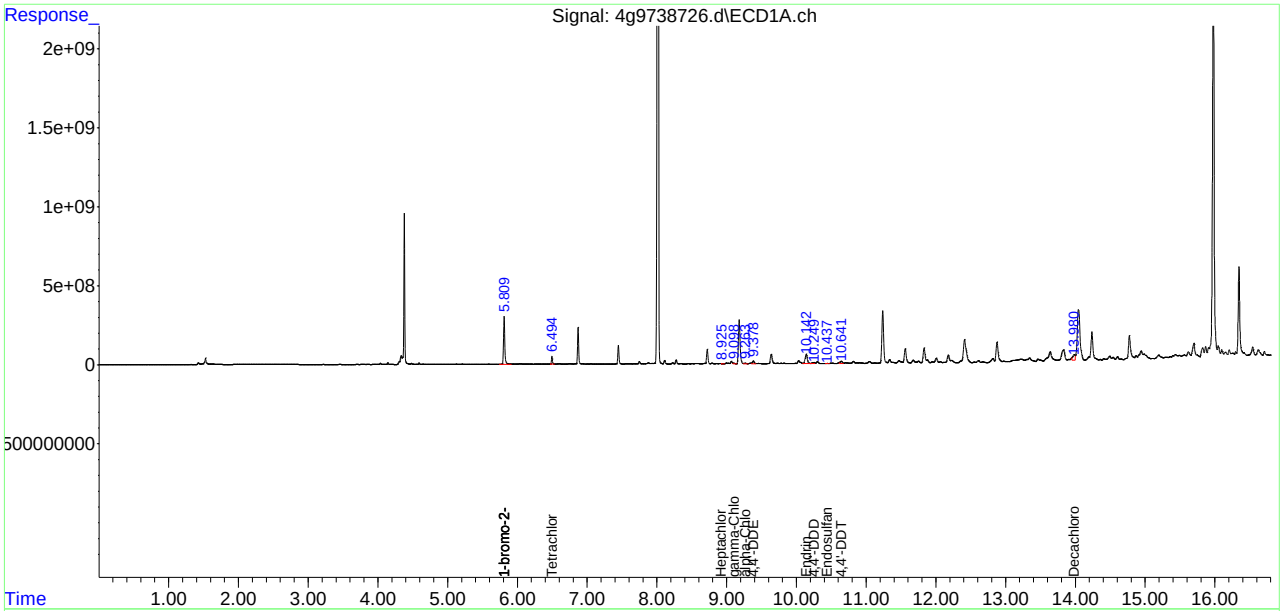
11.1.5 11

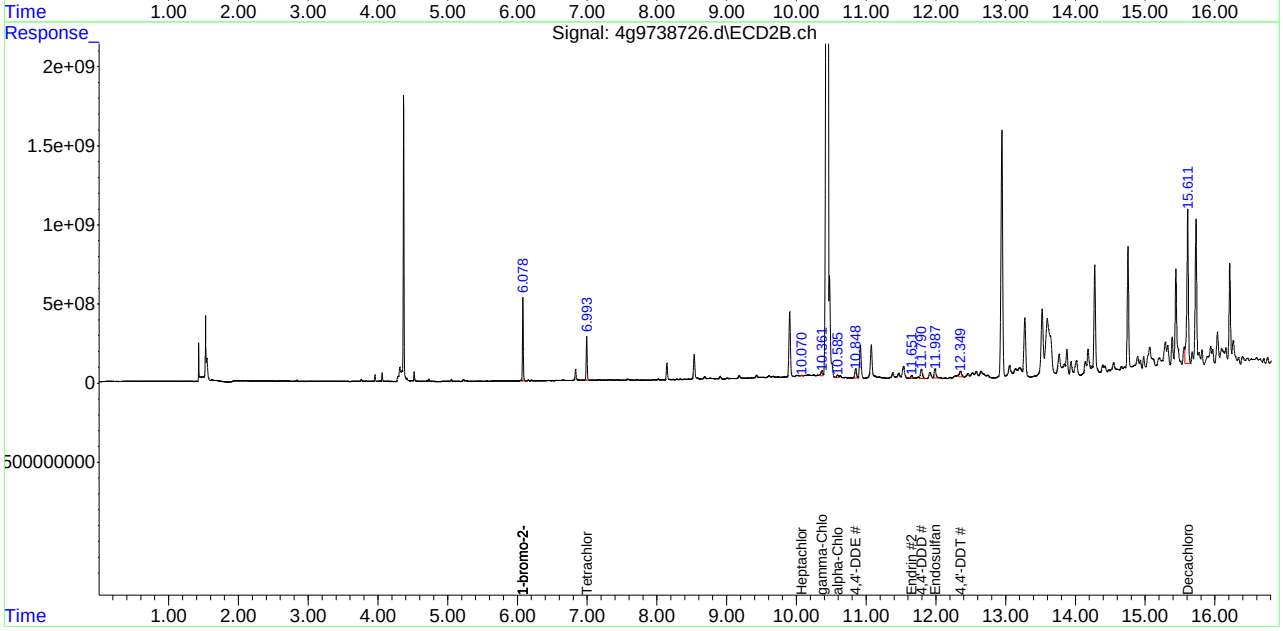
Quantitation Report (QT Reviewed)

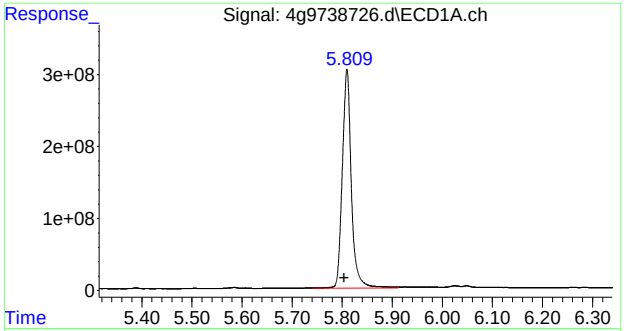
Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738726.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 8:20 pm
Operator : mahalial
Sample : jd91339-3 m
Misc : op55792,g4g4376,5.0,,,10,1
ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:12:00 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

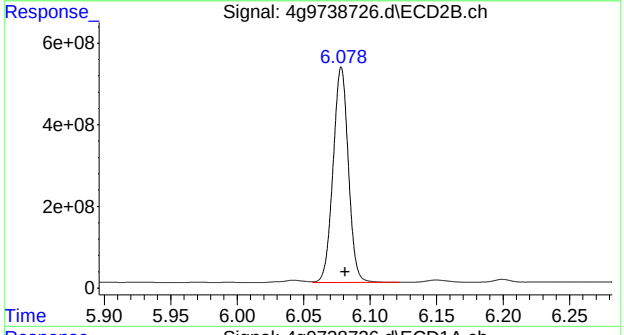






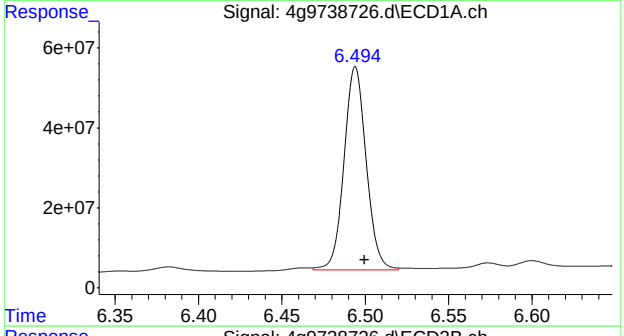
#1 1-bromo-2-nitrobenzene

R.T.: 5.810 min
Delta R.T.: 0.006 min
Response: 3812522517
Conc: 5.00 PPB



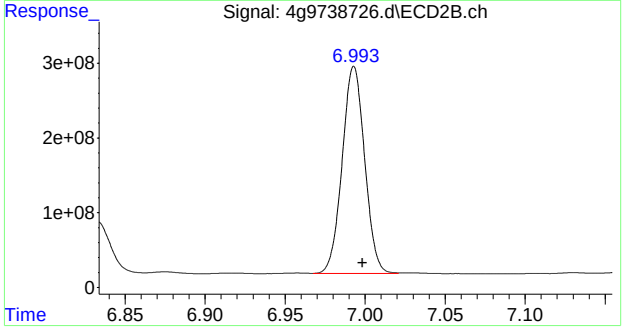
#1 1-bromo-2-nitrobenzene

R.T.: 6.078 min
Delta R.T.: -0.003 min
Response: 4214334639
Conc: 5.00 PPB



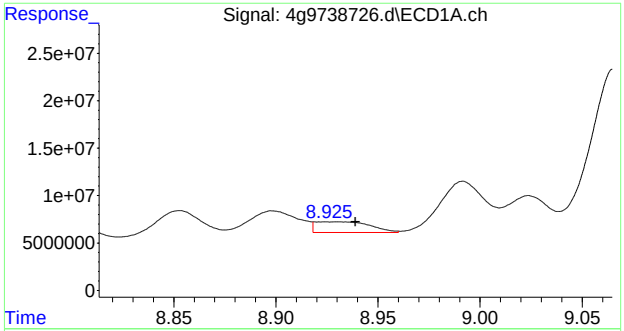
#2 Tetrachloro-m-xylene

R.T.: 6.494 min
Delta R.T.: -0.006 min
Response: 468960062
Conc: 0.72 PPB m



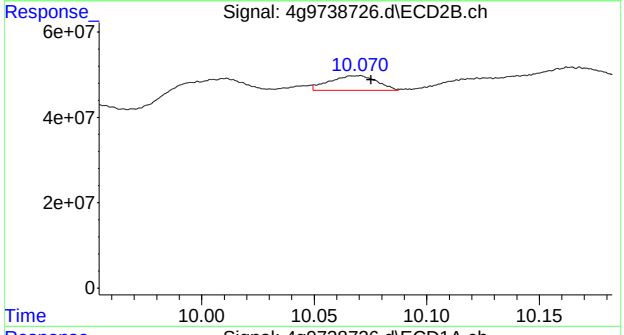
#2 Tetrachloro-m-xylene

R.T.: 6.993 min
Delta R.T.: -0.006 min
Response: 2715342616
Conc: 3.23 PPB m



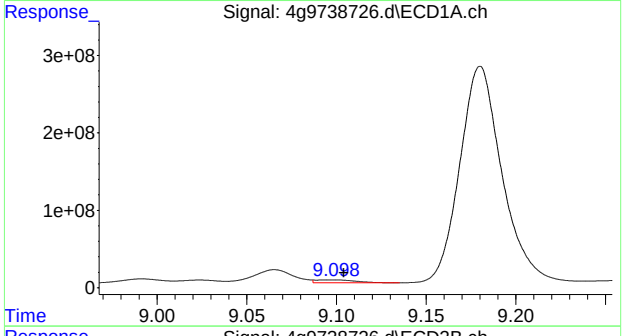
#11 Heptachlor Epoxide

R.T.: 8.925 min
Delta R.T.: -0.014 min
Response: 20839436
Conc: 0.02 PPB m



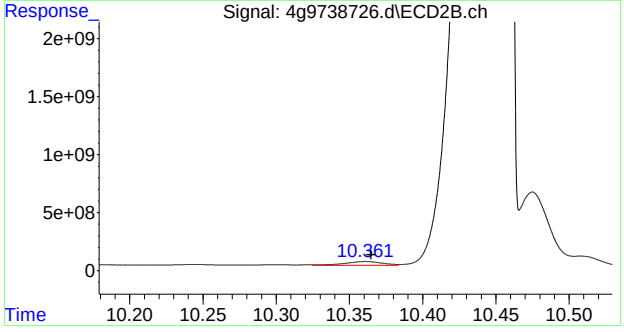
#11 Heptachlor Epoxide

R.T.: 10.070 min
Delta R.T.: -0.005 min
Response: 49231913
Conc: 0.05 PPB m



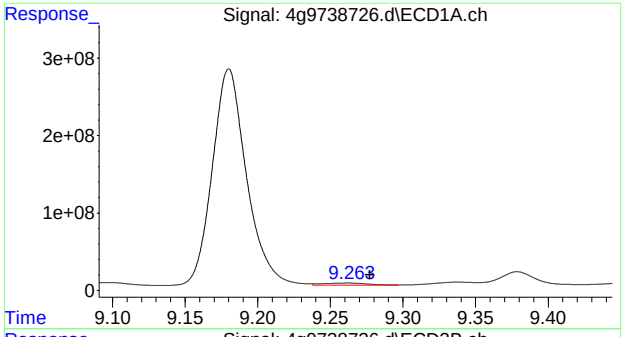
#12 gamma-Chlordane

R.T.: 9.098 min
Delta R.T.: -0.006 min
Response: 58044516
Conc: 0.06 PPB m



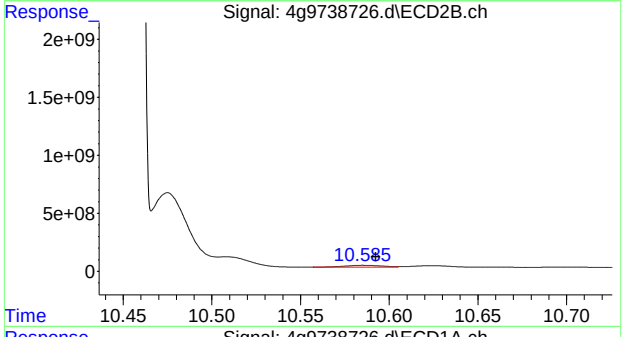
#12 gamma-Chlordane

R.T.: 10.361 min
Delta R.T.: -0.004 min
Response: 553104097
Conc: 0.55 PPB m



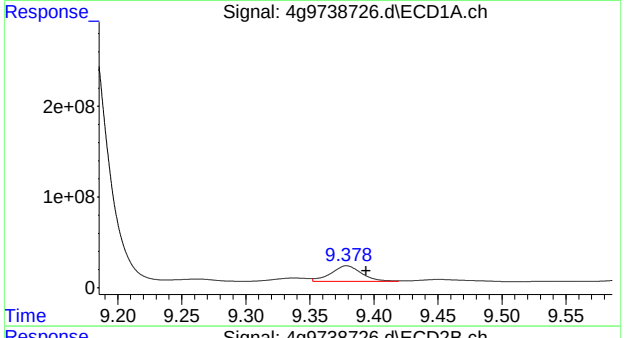
#13 alpha-Chlordane

R.T.: 9.263 min
Delta R.T.: -0.014 min
Response: 54777739
Conc: 0.06 PPB m



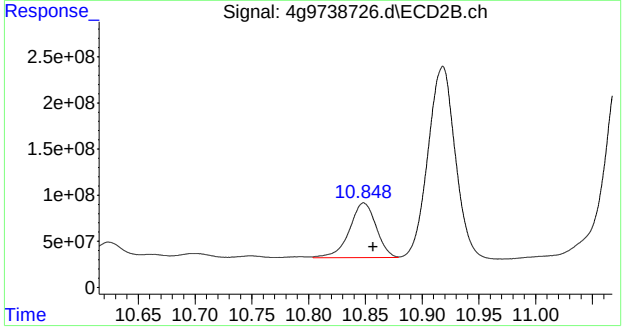
#13 alpha-Chlordane

R.T.: 10.585 min
Delta R.T.: -0.008 min
Response: 256942144
Conc: 0.27 PPB m



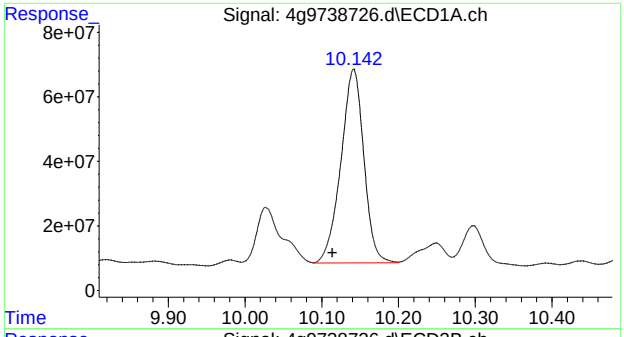
#15 4,4'-DDE

R.T.: 9.378 min
Delta R.T.: -0.016 min
Response: 292562209
Conc: 0.32 PPB m



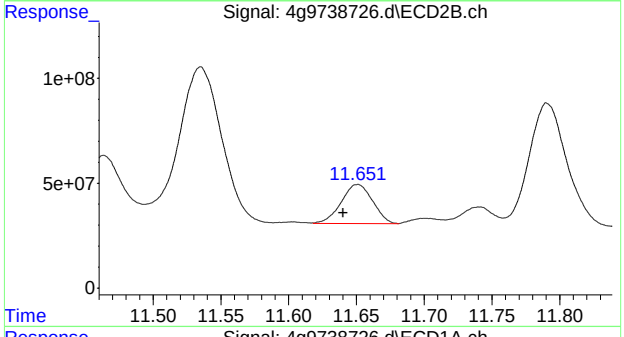
#15 4,4'-DDE

R.T.: 10.848 min
Delta R.T.: -0.008 min
Response: 972023260
Conc: 0.97 PPB m



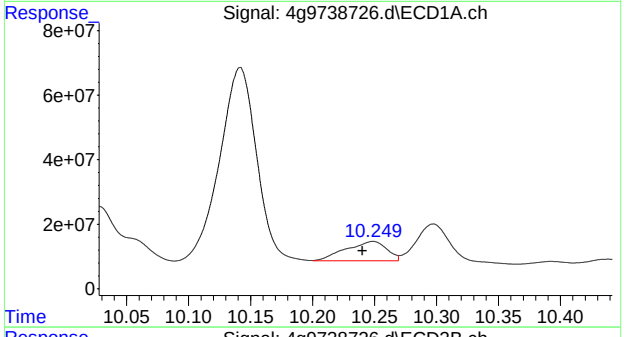
#17 Endrin

R.T.: 10.142 min
Delta R.T.: 0.028 min
Response: 1248316149
Conc: 1.46 PPB m



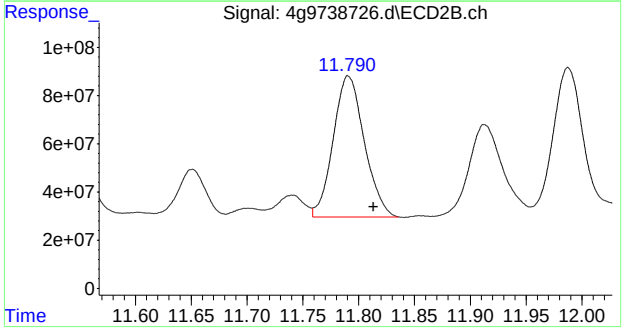
#17 Endrin

R.T.: 11.651 min
Delta R.T.: 0.011 min
Response: 300562712
Conc: 0.34 PPB m



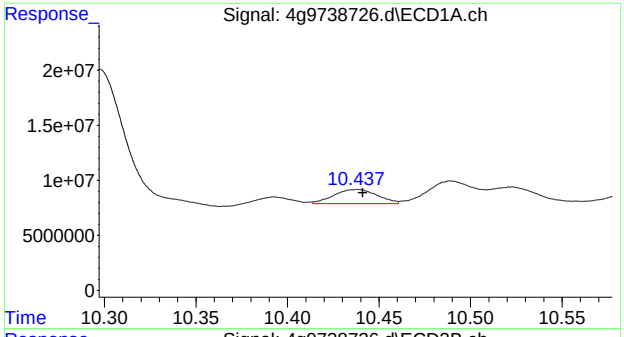
#18 4,4'-DDD

R.T.: 10.249 min
Delta R.T.: 0.009 min
Response: 138859739
Conc: 0.19 PPB m



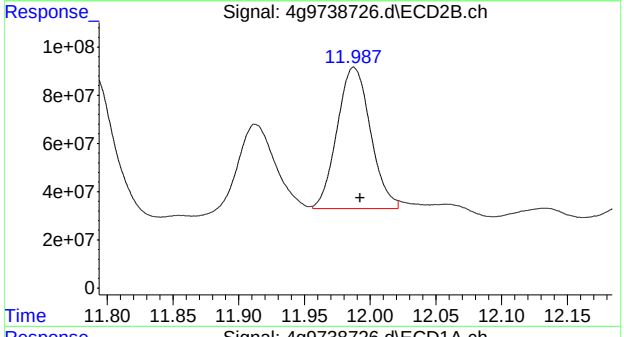
#18 4,4'-DDD

R.T.: 11.790 min
Delta R.T.: -0.024 min
Response: 1132715821
Conc: 1.39 PPB m



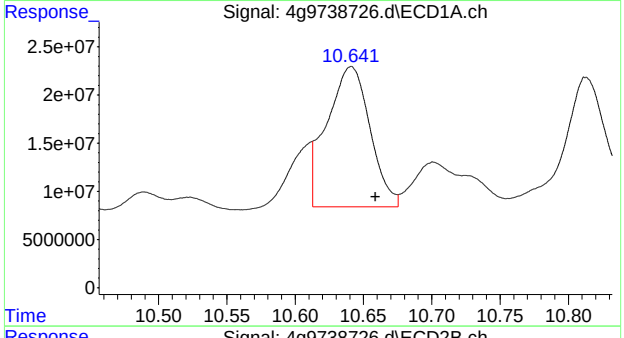
#19 Endosulfan II

R.T.: 10.437 min
Delta R.T.: -0.004 min
Response: 21244622
Conc: 0.02 PPB m



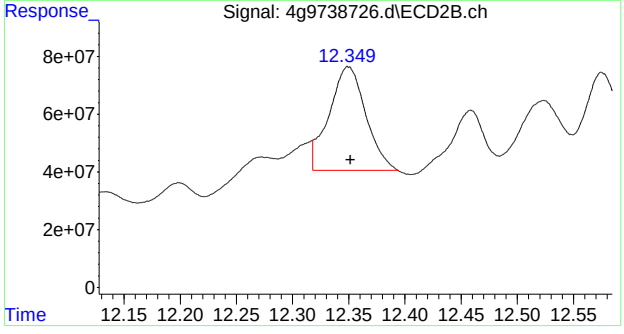
#19 Endosulfan II

R.T.: 11.987 min
Delta R.T.: -0.005 min
Response: 1037967904
Conc: 1.20 PPB m



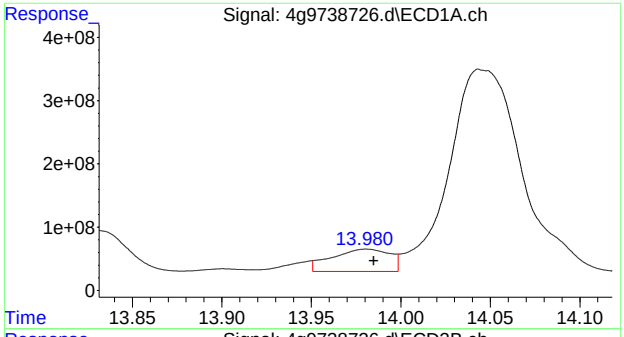
#20 4,4'-DDT

R.T.: 10.641 min
Delta R.T.: -0.018 min
Response: 319590118
Conc: 0.46 PPB m



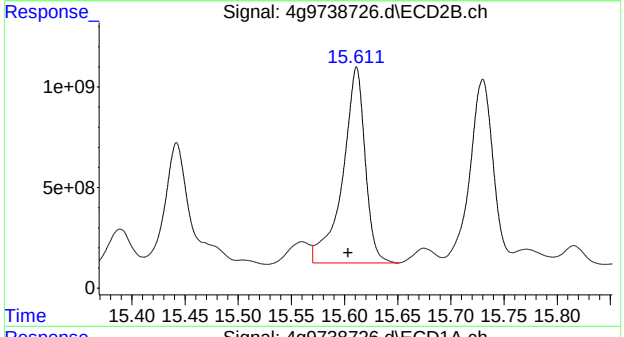
#20 4,4'-DDT

R.T.: 12.349 min
Delta R.T.: -0.003 min
Response: 812716469
Conc: 1.00 PPB m



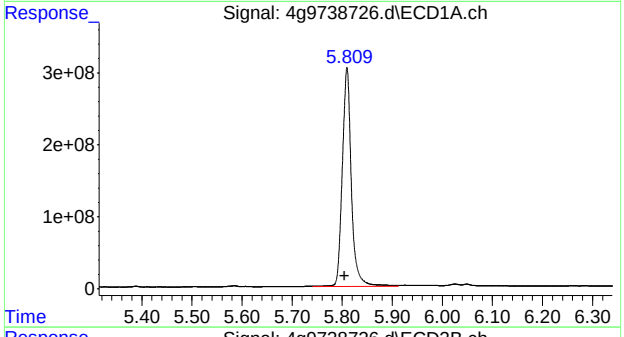
#26 Decachlorobiphenyl

R.T.: 13.980 min
Delta R.T.: -0.005 min
Response: 792737959
Conc: 1.14 PPB m



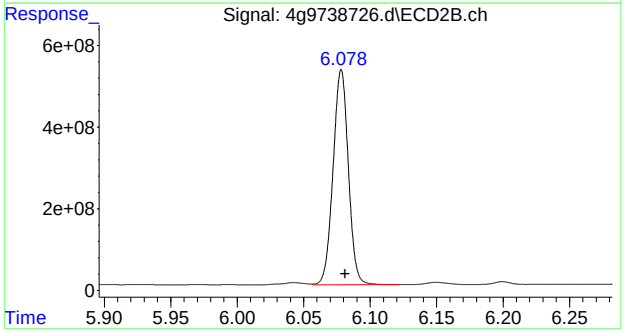
#26 Decachlorobiphenyl

R.T.: 15.611 min
Delta R.T.: 0.008 min
Response: 14287406834
Conc: 30.69 PPB m



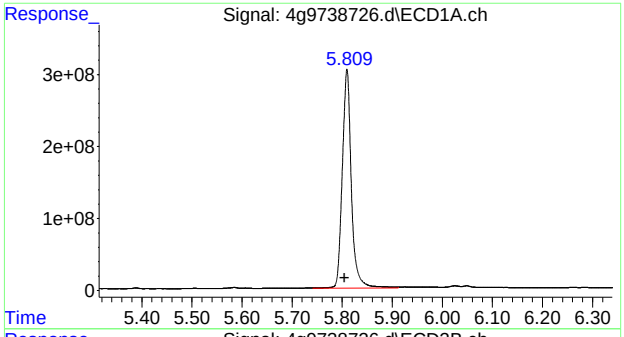
#27 1-bromo-2-nitrobenzeneA

R.T.: 5.810 min
Delta R.T.: 0.006 min
Response: 3812522517
Conc: 5.00 PPB



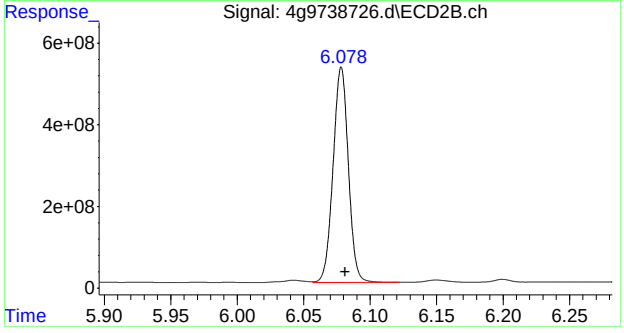
#27 1-bromo-2-nitrobenzeneA

R.T.: 6.078 min
Delta R.T.: -0.003 min
Response: 4214334639
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 5.810 min
Delta R.T.: 0.006 min
Response: 3812522517
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 6.078 min
Delta R.T.: -0.003 min
Response: 4214334639
Conc: 5.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Syra Marie Pacheco
07/03/24 07:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738727.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 8:43 pm
Operator : mahalial
Sample : jd91339-4 m
Misc : op55792,g4g4376,5.2,,,10,1
ALS Vial : 94 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:15:11 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	5.805	6.078	1964.7E6	4239.3E6	5.000m	5.000m
27)	I 1-bromo-2...	5.805	6.078	1958.6E6	4216.9E6	5.000m	5.000m
33)	I 1-bromo-2...	5.805	6.078	1960.0E6	4219.1E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	6.494	6.993	502.4E6	2675.7E6	1.498m	3.159m#
	Spiked Amount 40.000	Range 30 - 150		Recovery =		3.74%#	7.90%#
26)	SA Decachlor...	13.980	15.607	838.1E6	7483.2E6	2.349m	15.979m#
	Spiked Amount 40.000			Recovery =		5.87%	39.95%
	Target Compounds						
11)	B Heptachlo...	8.928	10.068	35486270	154.6E6	0.074m	0.148m#
12)	B gamma-Chl...	9.094	10.356	165.4E6	607.7E6	0.324m	0.598m#
13)	B alpha-Chl...	9.264	10.586	193.0E6	577.8E6	0.386m	0.611m#
15)	B 4,4'-DDE	9.379f	10.848	264.8E6	788.1E6	0.561m	0.784m#
16)	MA Dieldrin	9.777	11.122	22846439	213.2E6	0.045m	0.204m#
18)	A 4,4'-DDD	10.225f	11.792f	93705916	767.5E6	0.251m	0.938m#
19)	B Endosulfa...	10.442	11.986	38491021	843.9E6	0.088m	0.968m#
20)	MA 4,4'-DDT	10.640f	12.348	240.3E6	1319.5E6	0.664m	1.612m#
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

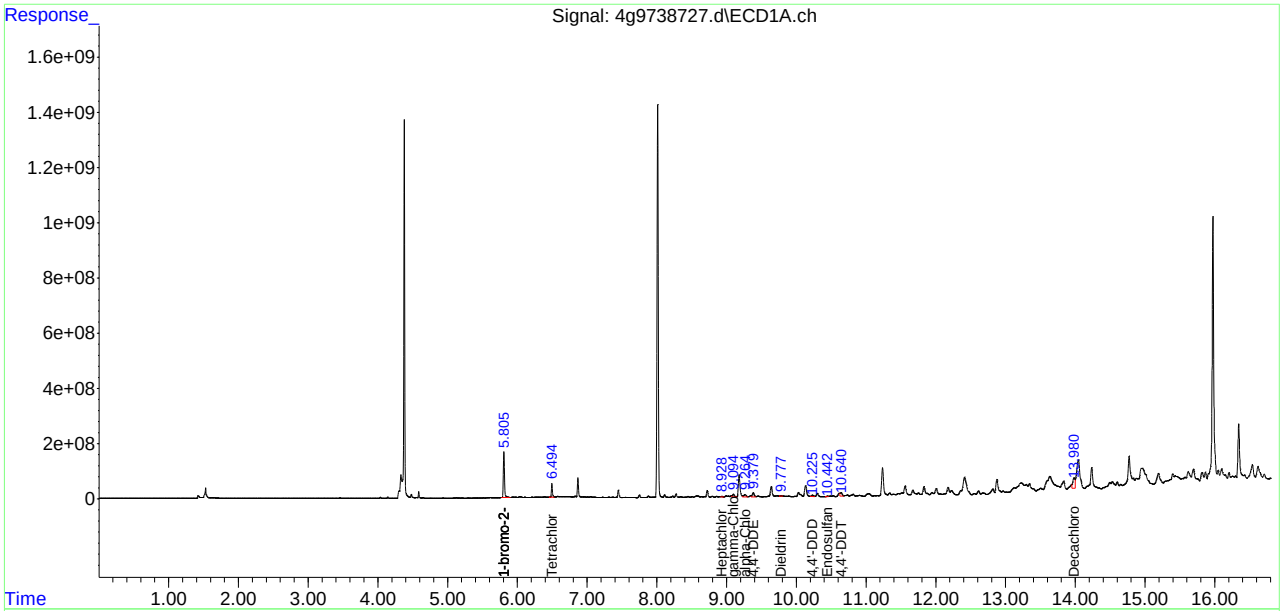
11.1.6 11

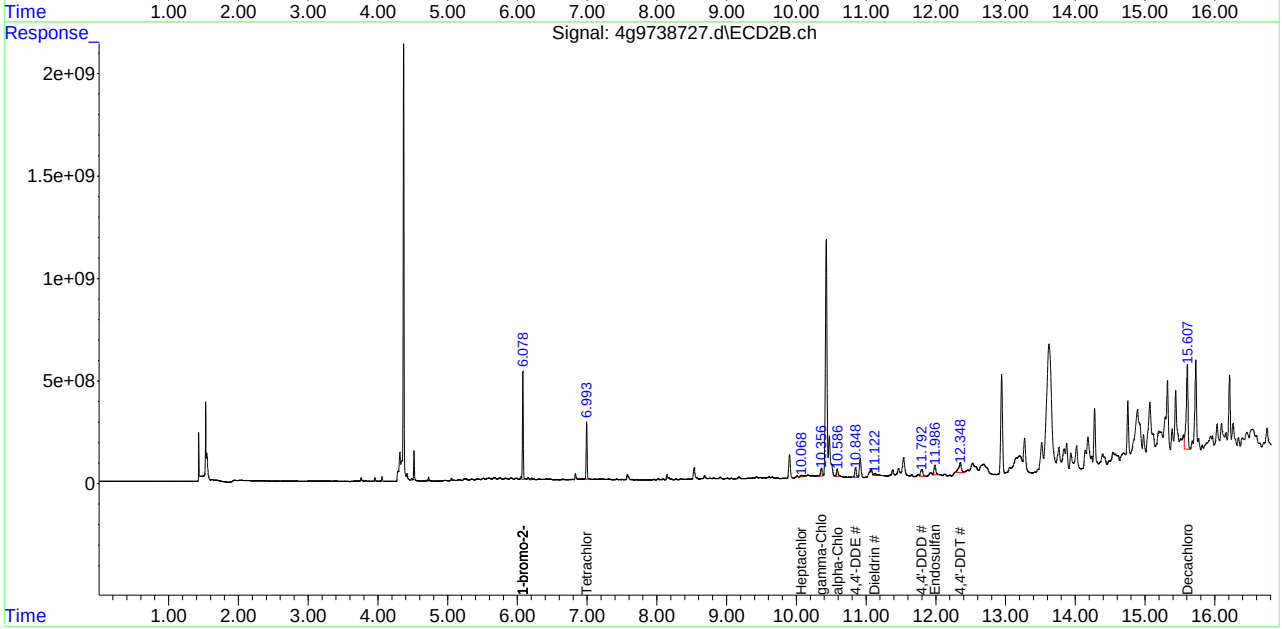
Quantitation Report (QT Reviewed)

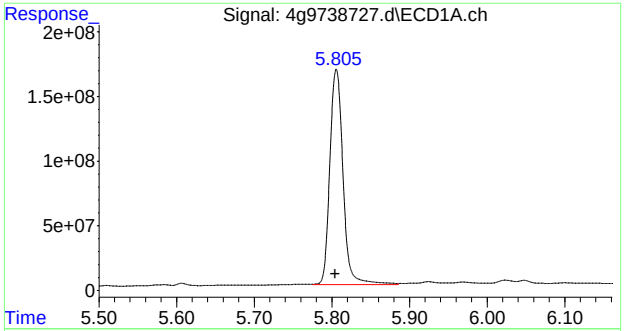
Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738727.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 8:43 pm
Operator : mahalial
Sample : jd91339-4 m
Misc : op55792,g4g4376,5.2,,,10,1
ALS Vial : 94 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:15:11 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

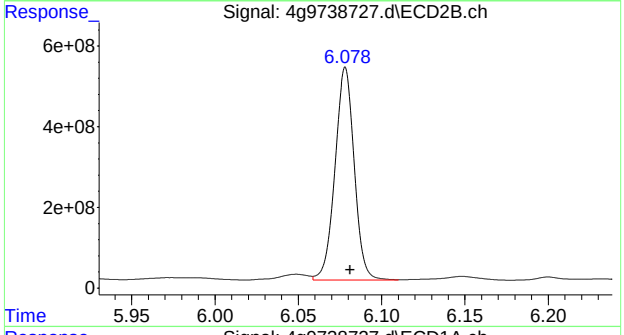






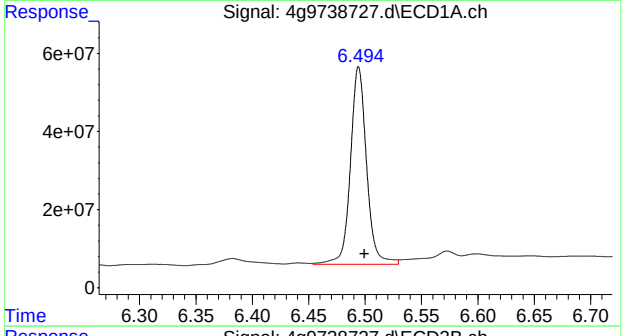
#1 1-bromo-2-nitrobenzene

R.T.: 5.805 min
Delta R.T.: 0.001 min
Response: 1964681306
Conc: 5.00 PPB m



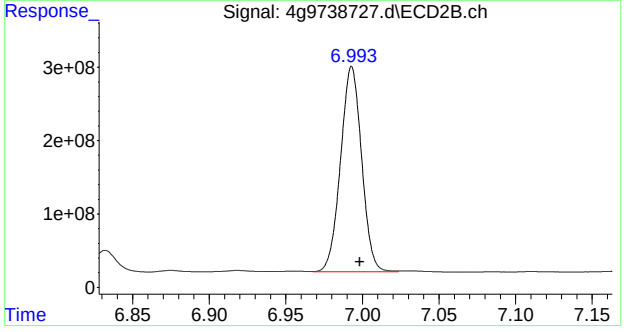
#1 1-bromo-2-nitrobenzene

R.T.: 6.078 min
Delta R.T.: -0.003 min
Response: 4239283625
Conc: 5.00 PPB m



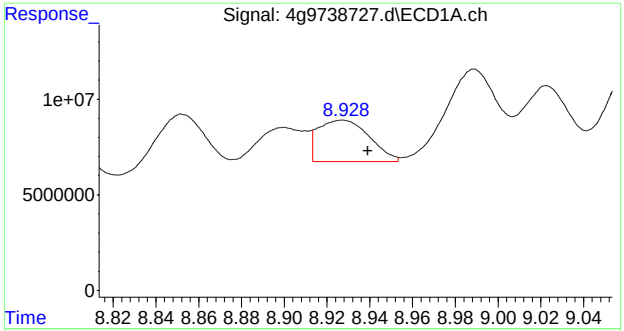
#2 Tetrachloro-m-xylene

R.T.: 6.494 min
Delta R.T.: -0.006 min
Response: 502377055
Conc: 1.50 PPB m



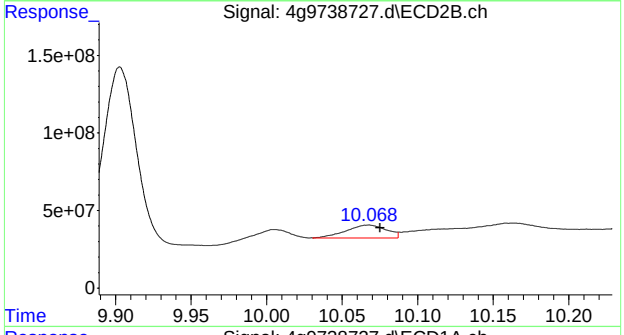
#2 Tetrachloro-m-xylene

R.T.: 6.993 min
Delta R.T.: -0.006 min
Response: 2675731254
Conc: 3.16 PPB m



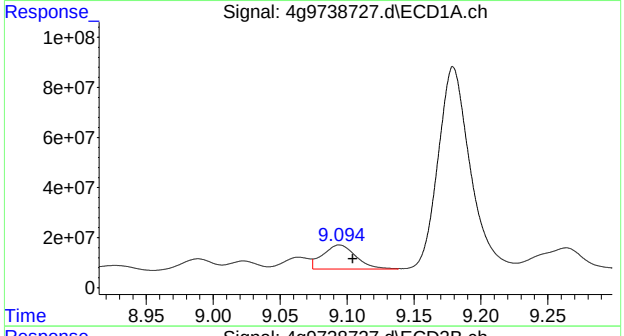
#11 Heptachlor Epoxide

R.T.: 8.928 min
Delta R.T.: -0.011 min
Response: 35486270
Conc: 0.07 PPB m



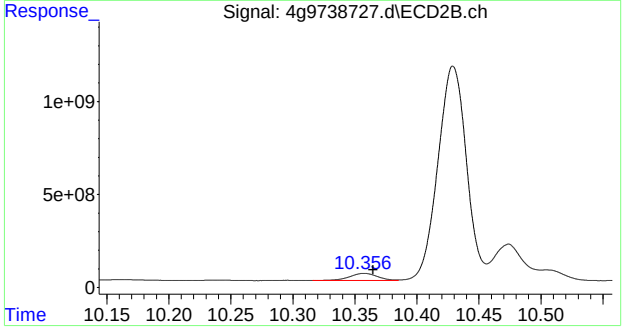
#11 Heptachlor Epoxide

R.T.: 10.068 min
Delta R.T.: -0.008 min
Response: 154564613
Conc: 0.15 PPB m



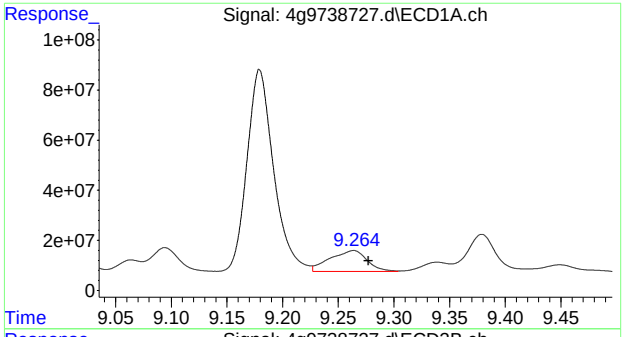
#12 gamma-Chlordane

R.T.: 9.094 min
Delta R.T.: -0.010 min
Response: 165385053
Conc: 0.32 PPB m



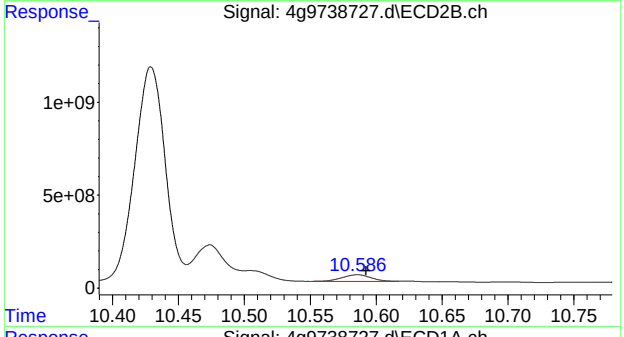
#12 gamma-Chlordane

R.T.: 10.356 min
Delta R.T.: -0.008 min
Response: 607692301
Conc: 0.60 PPB m



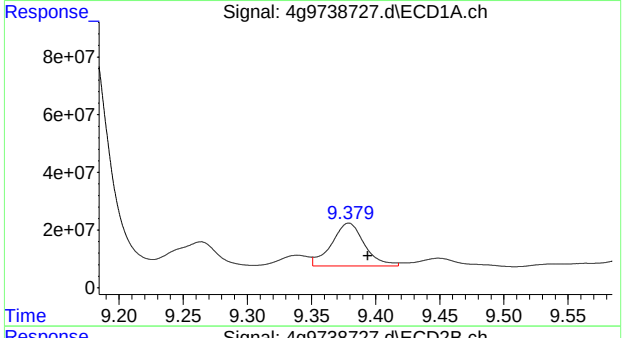
#13 alpha-Chlordane

R.T.: 9.264 min
Delta R.T.: -0.013 min
Response: 193014876
Conc: 0.39 PPB m



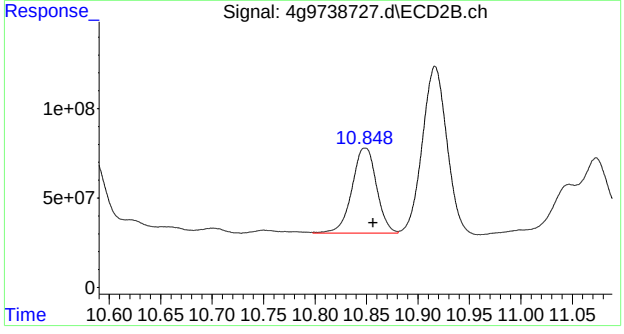
#13 alpha-Chlordane

R.T.: 10.586 min
Delta R.T.: -0.006 min
Response: 577761394
Conc: 0.61 PPB m



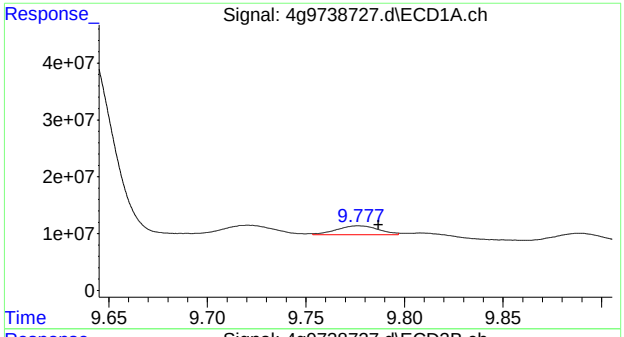
#15 4,4'-DDE

R.T.: 9.379 min
Delta R.T.: -0.015 min
Response: 264752413
Conc: 0.56 PPB m



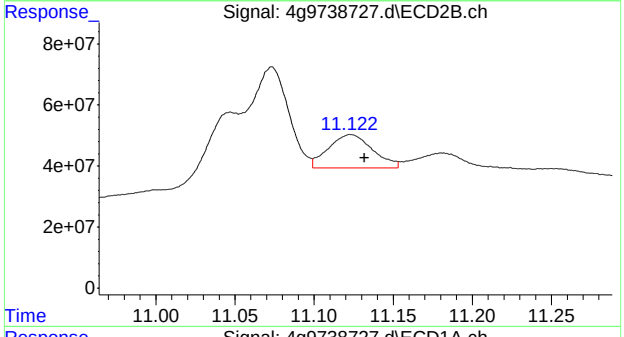
#15 4,4'-DDE

R.T.: 10.848 min
Delta R.T.: -0.008 min
Response: 788058945
Conc: 0.78 PPB m



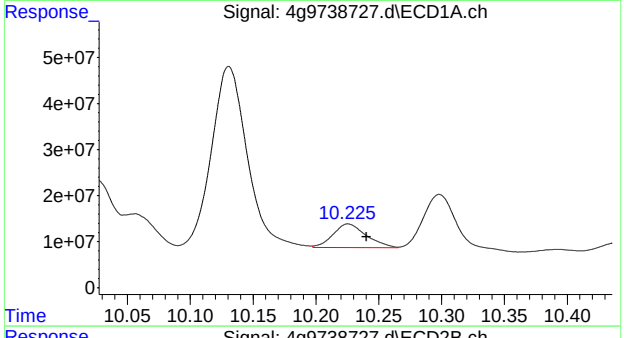
#16 Dieldrin

R.T.: 9.777 min
Delta R.T.: -0.010 min
Response: 22846439
Conc: 0.04 PPB m



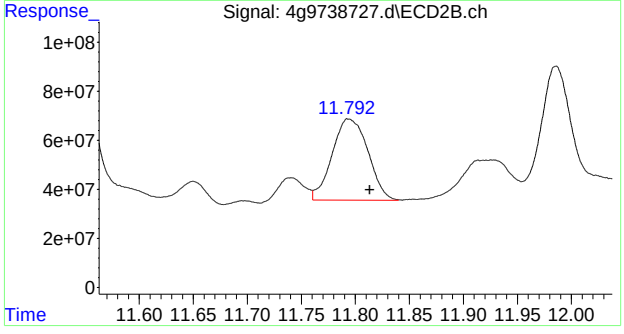
#16 Dieldrin

R.T.: 11.122 min
Delta R.T.: -0.010 min
Response: 213175233
Conc: 0.20 PPB m



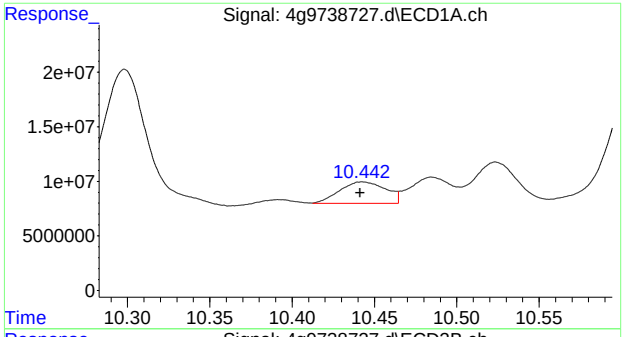
#18 4,4'-DDD

R.T.: 10.225 min
Delta R.T.: -0.015 min
Response: 93705916
Conc: 0.25 PPB m



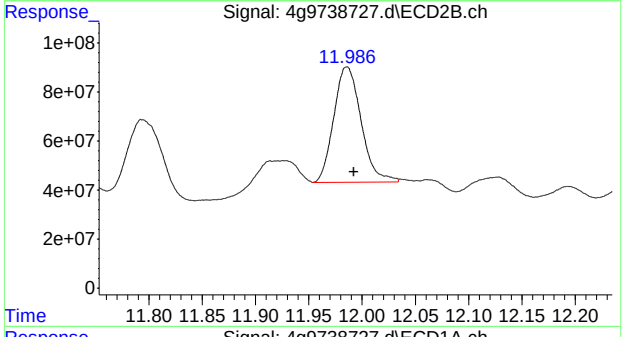
#18 4,4'-DDD

R.T.: 11.792 min
Delta R.T.: -0.021 min
Response: 767542624
Conc: 0.94 PPB m



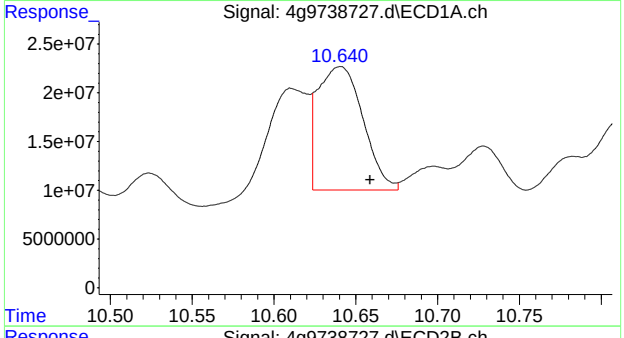
#19 Endosulfan II

R.T.: 10.442 min
Delta R.T.: 0.001 min
Response: 38491021
Conc: 0.09 PPB m



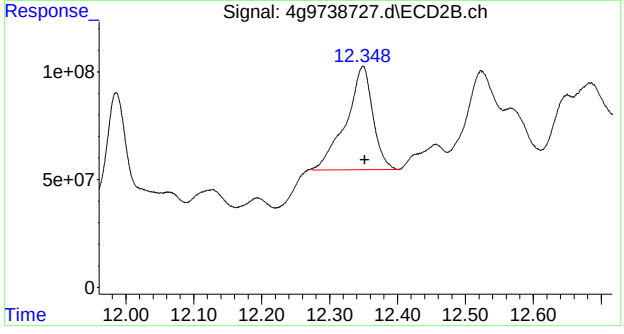
#19 Endosulfan II

R.T.: 11.986 min
Delta R.T.: -0.006 min
Response: 843946401
Conc: 0.97 PPB m



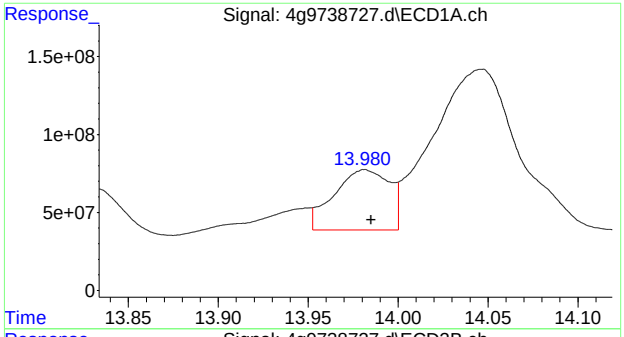
#20 4,4'-DDT

R.T.: 10.640 min
Delta R.T.: -0.019 min
Response: 240262864
Conc: 0.66 PPB m



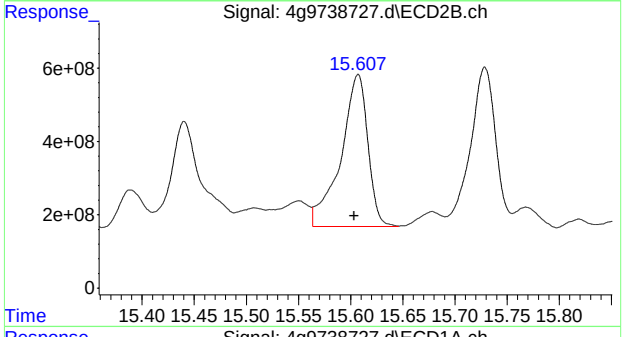
#20 4,4'-DDT

R.T.: 12.348 min
Delta R.T.: -0.003 min
Response: 1319487198
Conc: 1.61 PPB m



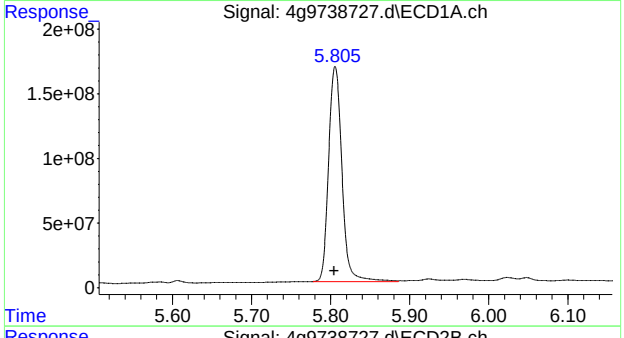
#26 Decachlorobiphenyl

R.T.: 13.980 min
Delta R.T.: -0.005 min
Response: 838127891
Conc: 2.35 PPB m



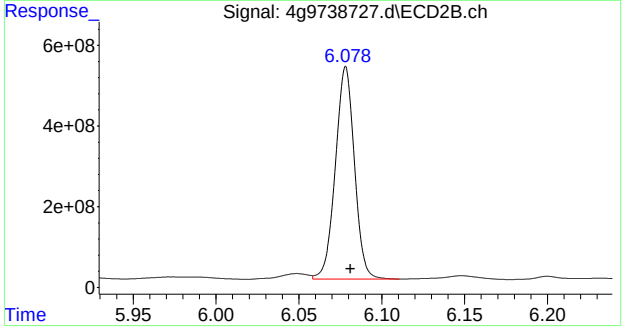
#26 Decachlorobiphenyl

R.T.: 15.607 min
Delta R.T.: 0.004 min
Response: 7483155221
Conc: 15.98 PPB m



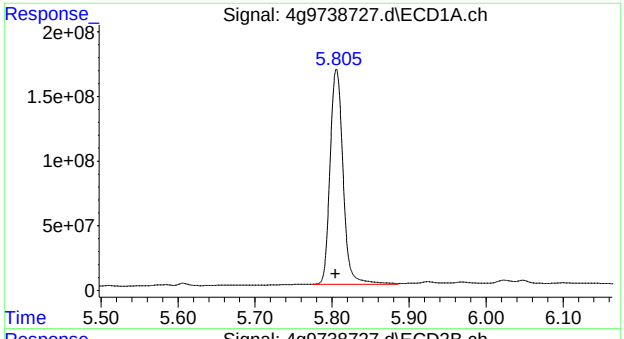
#27 1-bromo-2-nitrobenzeneA

R.T.: 5.805 min
Delta R.T.: 0.001 min
Response: 1958608764
Conc: 5.00 PPB m



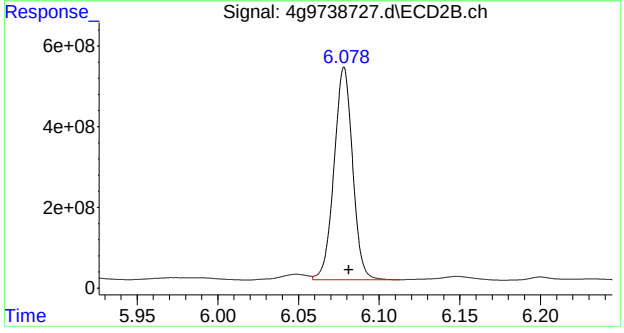
#27 1-bromo-2-nitrobenzeneA

R.T.: 6.078 min
Delta R.T.: -0.003 min
Response: 4216860091
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 5.805 min
Delta R.T.: 0.001 min
Response: 1959955536
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 6.078 min
Delta R.T.: -0.003 min
Response: 4219071938
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco 07/03/24 07:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738728.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 9:05 pm
Operator : mahalial
Sample : jd91339-5 m
Misc : op55792,g4g4376,5.2,,,10,1
ALS Vial : 95 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:17:06 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	5.809	6.080	2776.6E6	3976.3E6	5.000	5.000
27)	I 1-bromo-2...	5.809	6.080	2776.6E6	3976.3E6	5.000	5.000
33)	I 1-bromo-2...	5.809	6.080	2776.6E6	3976.3E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	6.496	6.995	474.7E6	2857.7E6	1.001	3.597 #
	Spiked Amount 40.000	Range 30 - 150		Recovery =		2.50%#	8.99%#
26)	SA Decachlor...	13.977	15.601	880.6E6	3006.3E6	1.746m	6.844m#
	Spiked Amount 40.000			Recovery =		4.37%	17.11%
	Target Compounds						
11)	B Heptachlo...	8.927	10.070	39036118	134.9E6	0.058m	0.138m#
12)	B gamma-Chl...	9.092	10.357	48038973	131.1E6	0.067m	0.137m#
13)	B alpha-Chl...	9.249f	10.585	254.2E6	333.6E6	0.360	0.376m
15)	B 4,4'-DDE	9.380	10.848	1078.8E6	4295.6E6	1.618	4.556m#
16)	MA Dieldrin	9.778	11.125	17511364	59907035	0.024m	0.061m#
18)	A 4,4'-DDD	10.226	11.805	178.5E6	756.3E6	0.338m	0.985m#
20)	MA 4,4'-DDT	10.645	12.345	255.8E6	1709.2E6	0.500m	2.227m#
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

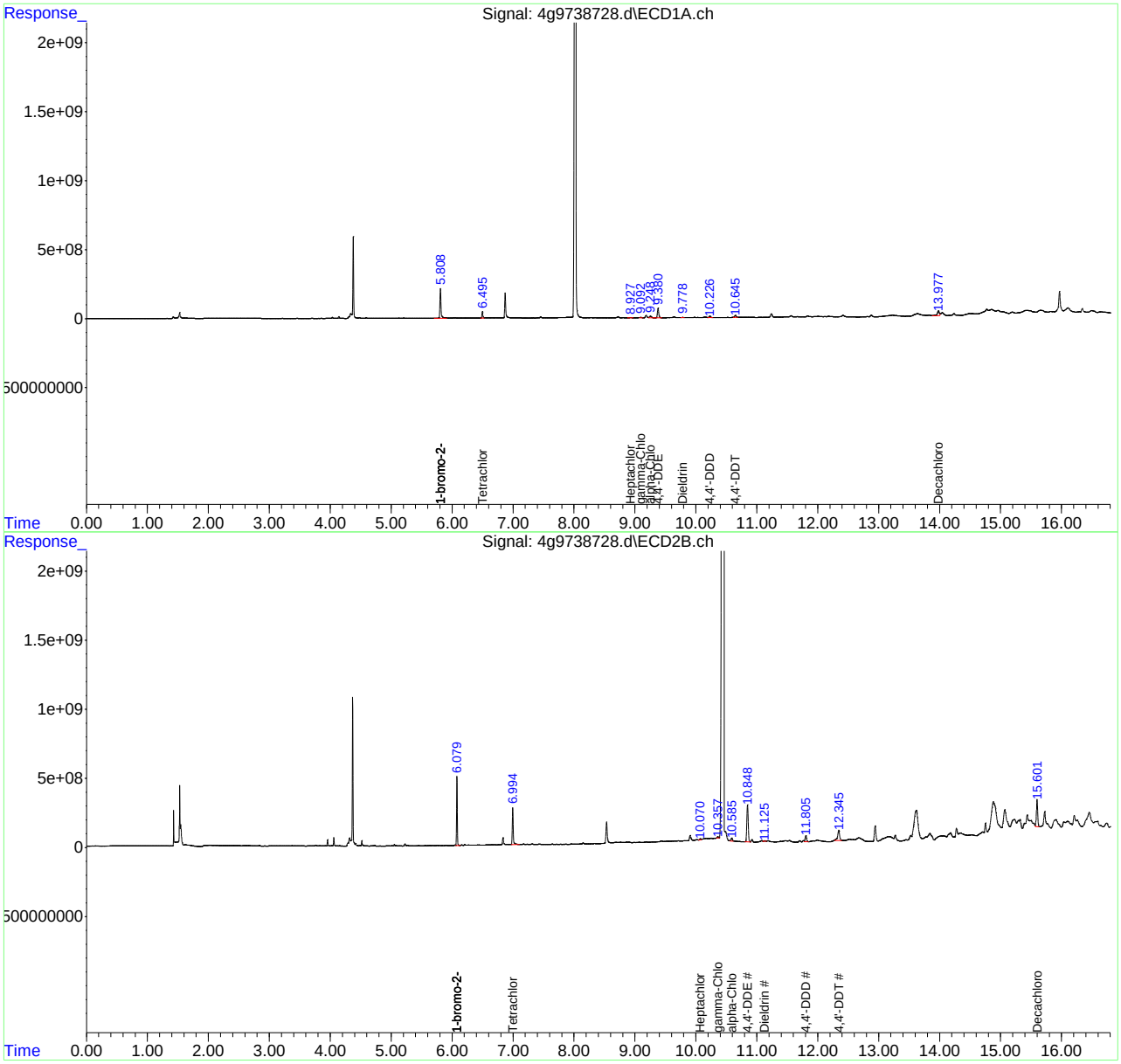
11.1.7 11

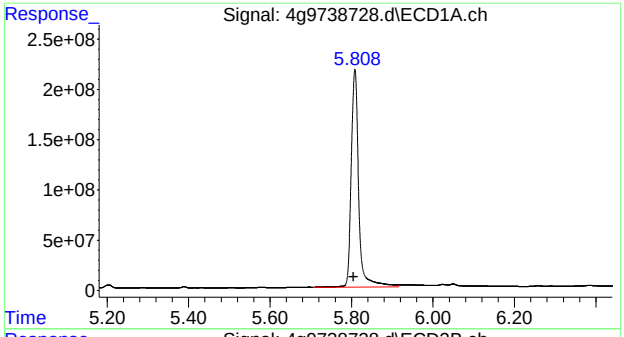
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738728.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 9:05 pm
Operator : mahalial
Sample : jd91339-5 m
Misc : op55792,g4g4376,5.2,,,10,1
ALS Vial : 95 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:17:06 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

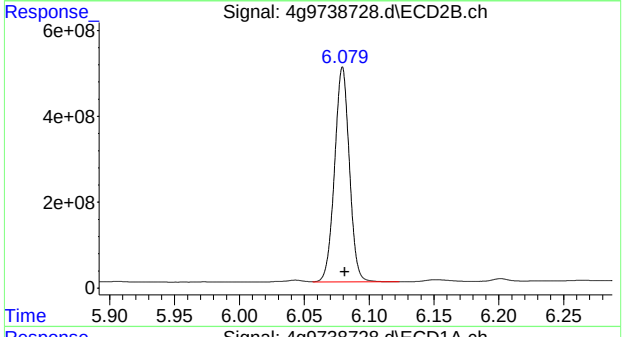
Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





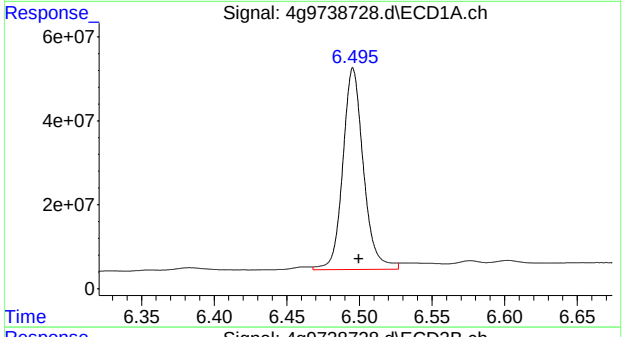
#1 1-bromo-2-nitrobenzene

R.T.: 5.809 min
Delta R.T.: 0.005 min
Response: 2776600375
Conc: 5.00 PPB



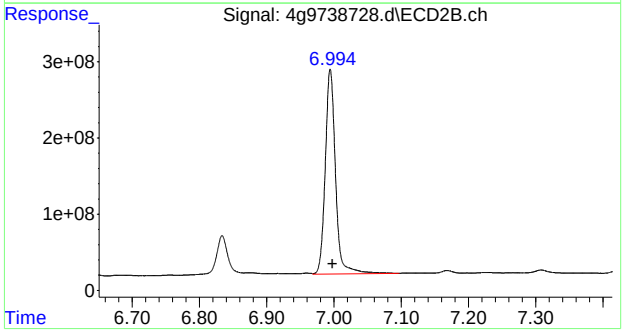
#1 1-bromo-2-nitrobenzene

R.T.: 6.080 min
Delta R.T.: -0.002 min
Response: 3976311102
Conc: 5.00 PPB



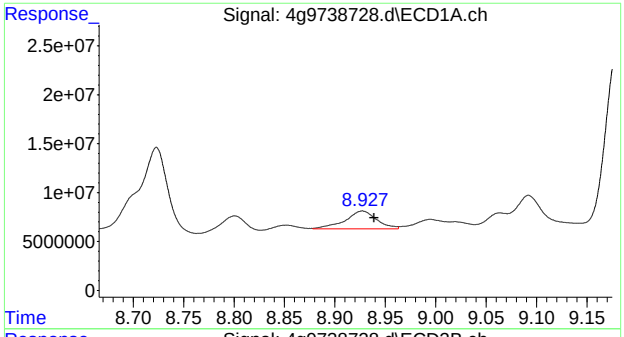
#2 Tetrachloro-m-xylene

R.T.: 6.496 min
Delta R.T.: -0.004 min
Response: 474667483
Conc: 1.00 PPB



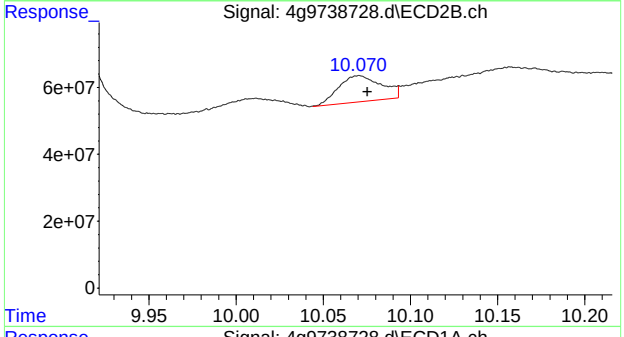
#2 Tetrachloro-m-xylene

R.T.: 6.995 min
Delta R.T.: -0.003 min
Response: 2857677130
Conc: 3.60 PPB



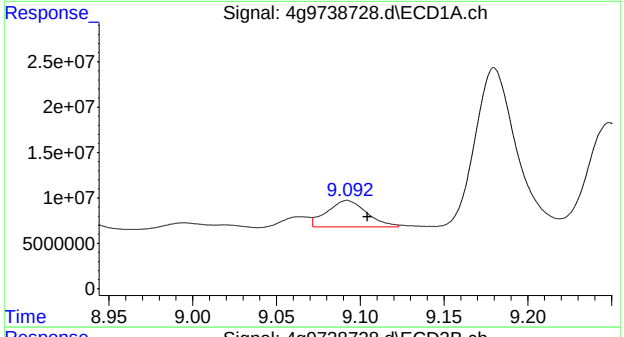
#11 Heptachlor Epoxide

R.T.: 8.927 min
Delta R.T.: -0.012 min
Response: 39036118
Conc: 0.06 PPB m



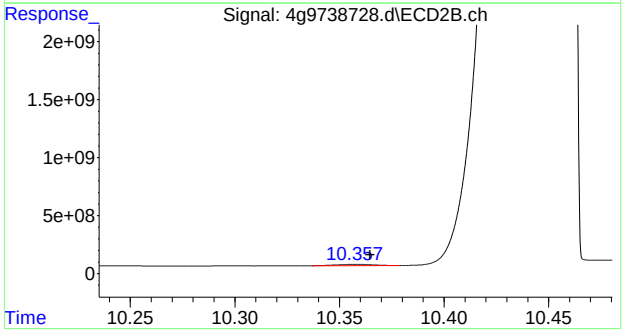
#11 Heptachlor Epoxide

R.T.: 10.070 min
Delta R.T.: -0.005 min
Response: 134903437
Conc: 0.14 PPB m



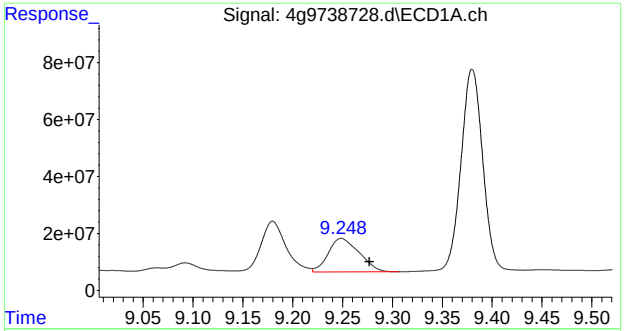
#12 gamma-Chlordane

R.T.: 9.092 min
Delta R.T.: -0.012 min
Response: 48038973
Conc: 0.07 PPB m



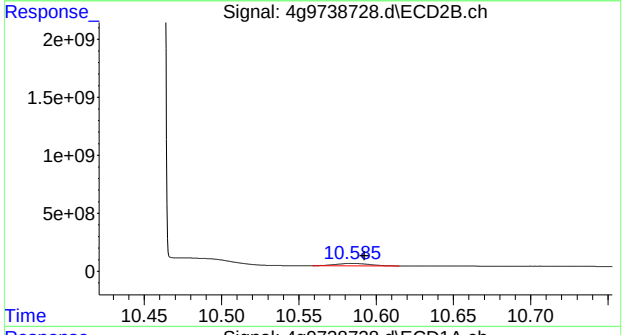
#12 gamma-Chlordane

R.T.: 10.357 min
Delta R.T.: -0.007 min
Response: 131084270
Conc: 0.14 PPB m



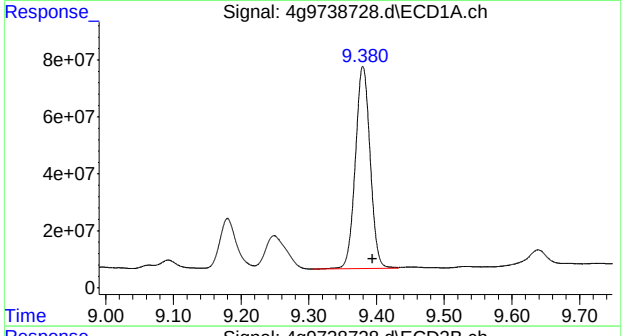
#13 alpha-Chlordane

R.T.: 9.249 min
Delta R.T.: -0.028 min
Response: 254162219
Conc: 0.36 PPB



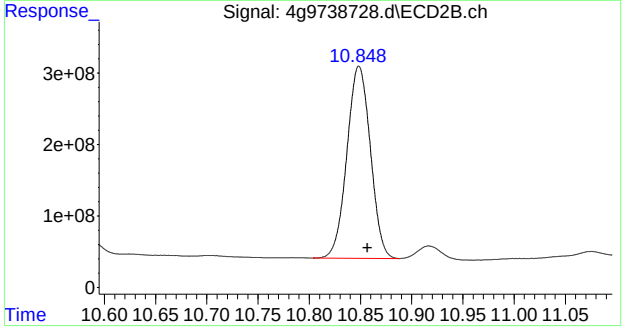
#13 alpha-Chlordane

R.T.: 10.585 min
Delta R.T.: -0.008 min
Response: 333572587
Conc: 0.38 PPB m



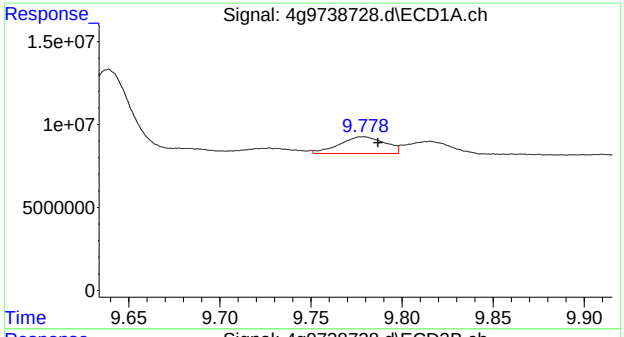
#15 4,4'-DDE

R.T.: 9.380 min
Delta R.T.: -0.014 min
Response: 1078798587
Conc: 1.62 PPB



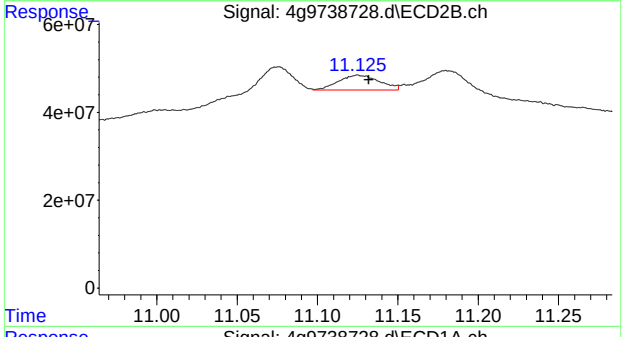
#15 4,4'-DDE

R.T.: 10.848 min
Delta R.T.: -0.009 min
Response: 4295617070
Conc: 4.56 PPB m



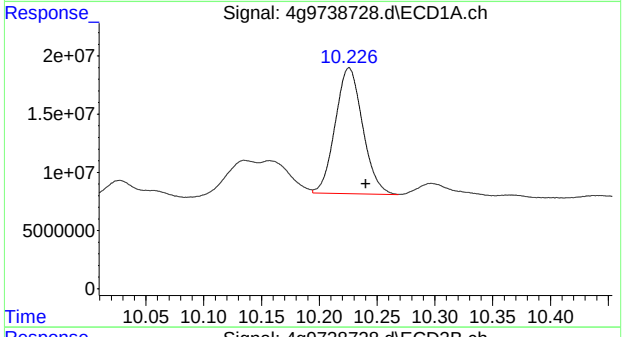
#16 Dieldrin

R.T.: 9.778 min
Delta R.T.: -0.008 min
Response: 17511364
Conc: 0.02 PPB m



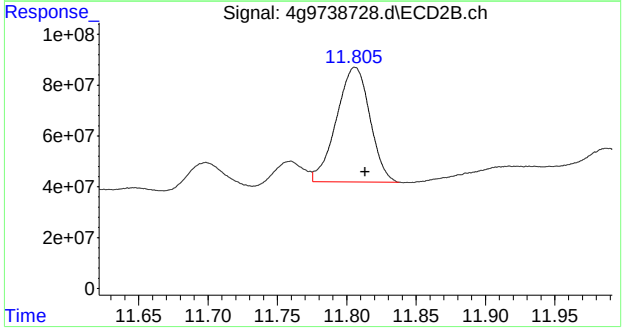
#16 Dieldrin

R.T.: 11.125 min
Delta R.T.: -0.007 min
Response: 59907035
Conc: 0.06 PPB m



#18 4,4'-DDD

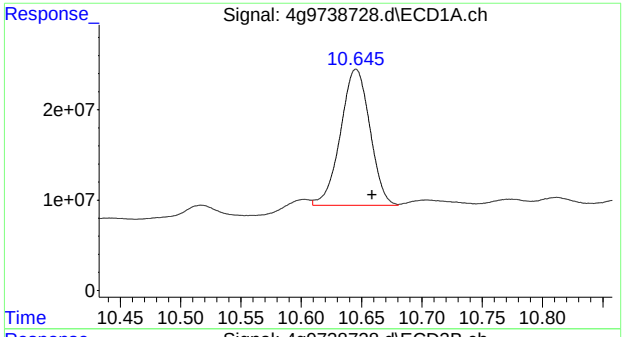
R.T.: 10.226 min
Delta R.T.: -0.014 min
Response: 178479333
Conc: 0.34 PPB m



#18 4,4'-DDD

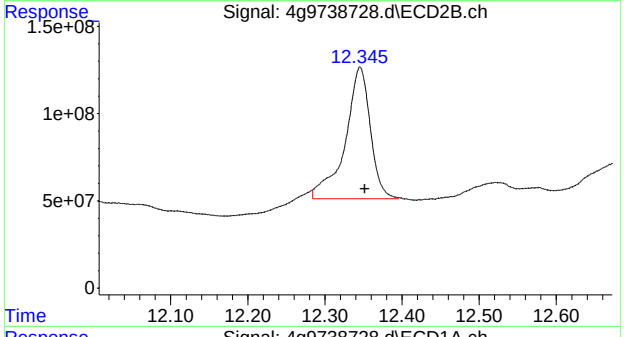
R.T.: 11.805 min
Delta R.T.: -0.008 min
Response: 756287295
Conc: 0.99 PPB m

11.1.7
11



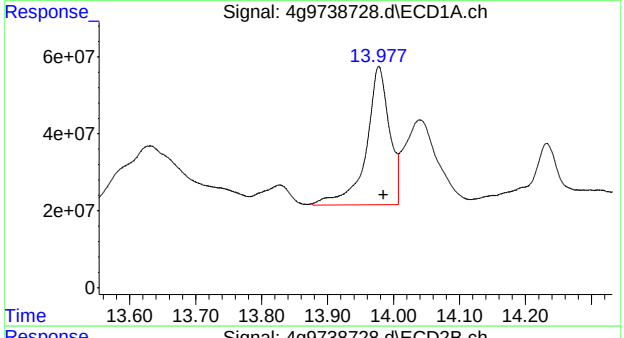
#20 4,4'-DDT

R.T.: 10.645 min
Delta R.T.: -0.014 min
Response: 255788778
Conc: 0.50 PPB m



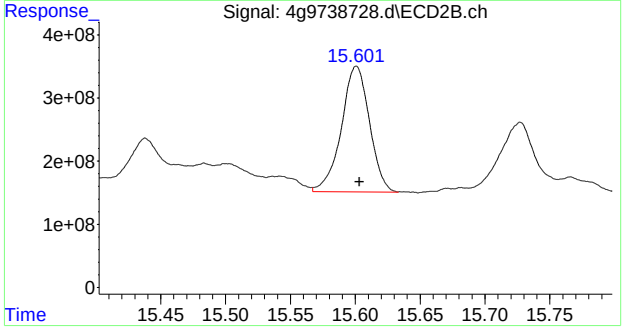
#20 4,4'-DDT

R.T.: 12.345 min
Delta R.T.: -0.007 min
Response: 1709249634
Conc: 2.23 PPB m



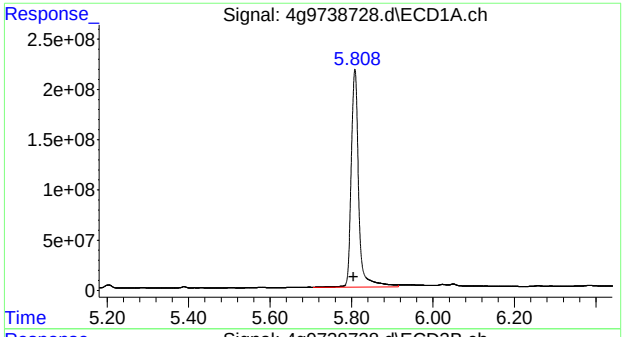
#26 Decachlorobiphenyl

R.T.: 13.977 min
Delta R.T.: -0.008 min
Response: 880600092
Conc: 1.75 PPB m



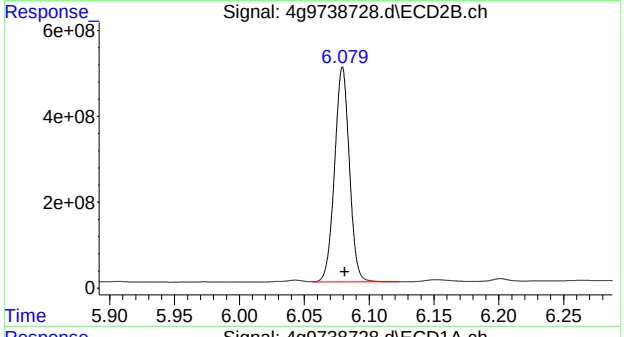
#26 Decachlorobiphenyl

R.T.: 15.601 min
Delta R.T.: -0.003 min
Response: 3006297352
Conc: 6.84 PPB m



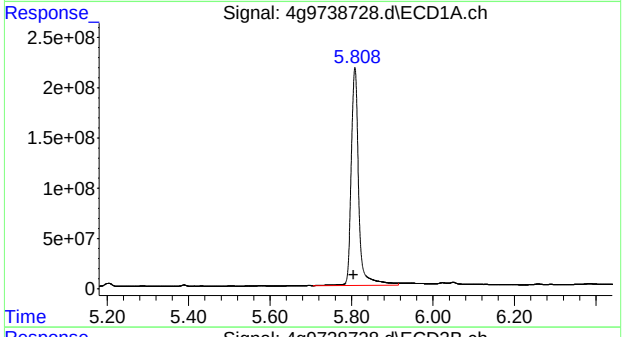
#27 1-bromo-2-nitrobenzeneA

R.T.: 5.809 min
Delta R.T.: 0.004 min
Response: 2776600375
Conc: 5.00 PPB



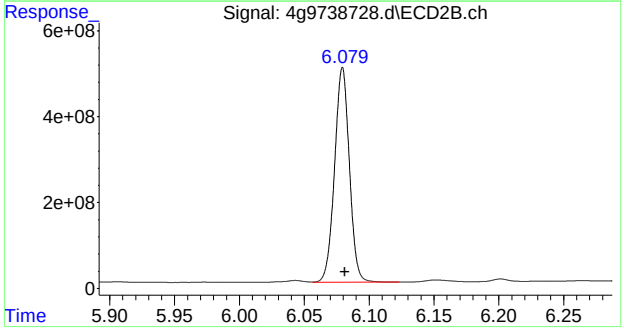
#27 1-bromo-2-nitrobenzeneA

R.T.: 6.080 min
Delta R.T.: -0.002 min
Response: 3976311102
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 5.809 min
Delta R.T.: 0.004 min
Response: 2776600375
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 6.080 min
Delta R.T.: -0.002 min
Response: 3976311102
Conc: 5.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Syra Marie Pacheco
07/03/24 07:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738729.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 9:28 pm
Operator : mahalial
Sample : jd91339-6 m
Misc : op55792,g4g4376,5.4,,,10,1
ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:21:47 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	5.805	6.077	1768.7E6	4292.9E6	5.000	5.000
27)	I 1-bromo-2...	5.805	6.077	1768.7E6	4292.9E6	5.000	5.000
33)	I 1-bromo-2...	5.805	6.077	1768.7E6	4292.9E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	6.493	6.991	485.0E6	2692.5E6	1.606m	3.139m#
	Spiked Amount 40.000	Range 30 - 150		Recovery =		4.02%#	7.85%#
26)	SA Decachlor...	13.980	15.608	564.0E6	5364.4E6	1.756m	11.312m#
	Spiked Amount 40.000			Recovery =		4.39%	28.28%
	Target Compounds						
11)	B Heptachlo...	8.925	10.065	97174452	336.5E6	0.226m	0.318m#
12)	B gamma-Chl...	9.090	10.357	538.6E6	2065.1E6	1.174m	2.006m#
13)	B alpha-Chl...	9.263	10.585	999.1E6	2415.8E6	2.219m	2.524m
15)	B 4,4'-DDE	9.377f	10.847	289.9E6	1082.9E6	0.683m	1.064m#
16)	MA Dieldrin	9.776	11.124	161.3E6	607.9E6	0.351	0.575 #
18)	A 4,4'-DDD	10.225f	11.803	140.5E6	785.7E6	0.418m	0.948m#
19)	B Endosulfa...	10.437	11.986	19386674	628.6E6	0.049m	0.712m#
20)	MA 4,4'-DDT	10.642f	12.345	251.7E6	973.1E6	0.773m	1.174m#
23)	A Methoxychlor	11.462f	13.591	89903259	812.7E6	0.566m	2.165m#

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

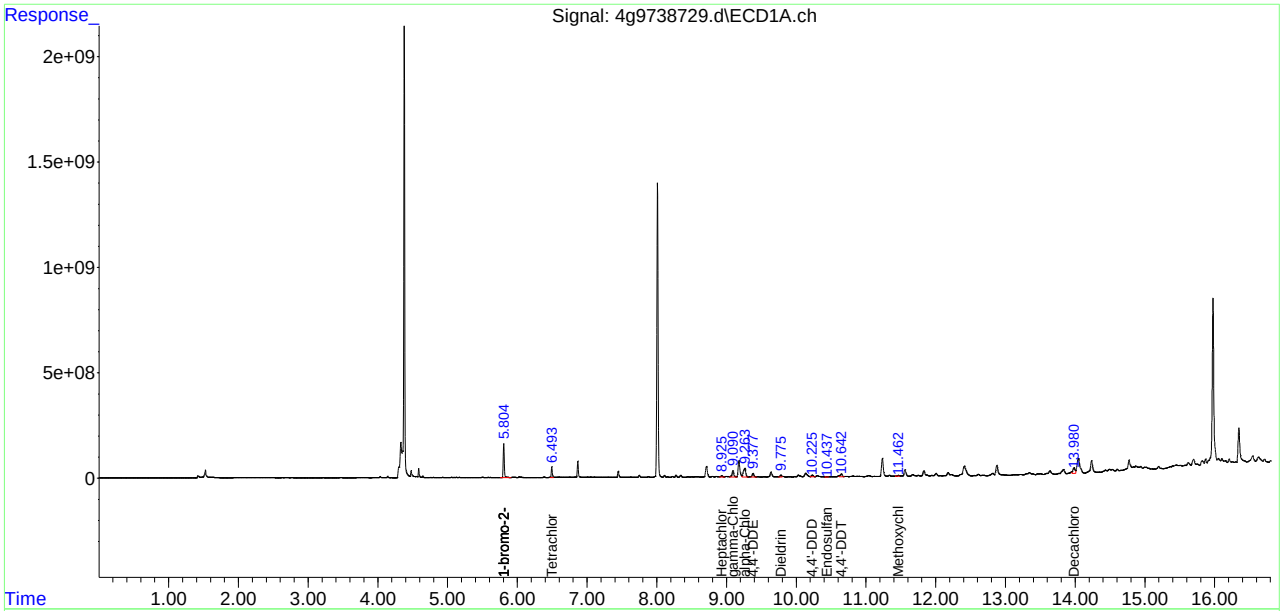
11.1.8 11

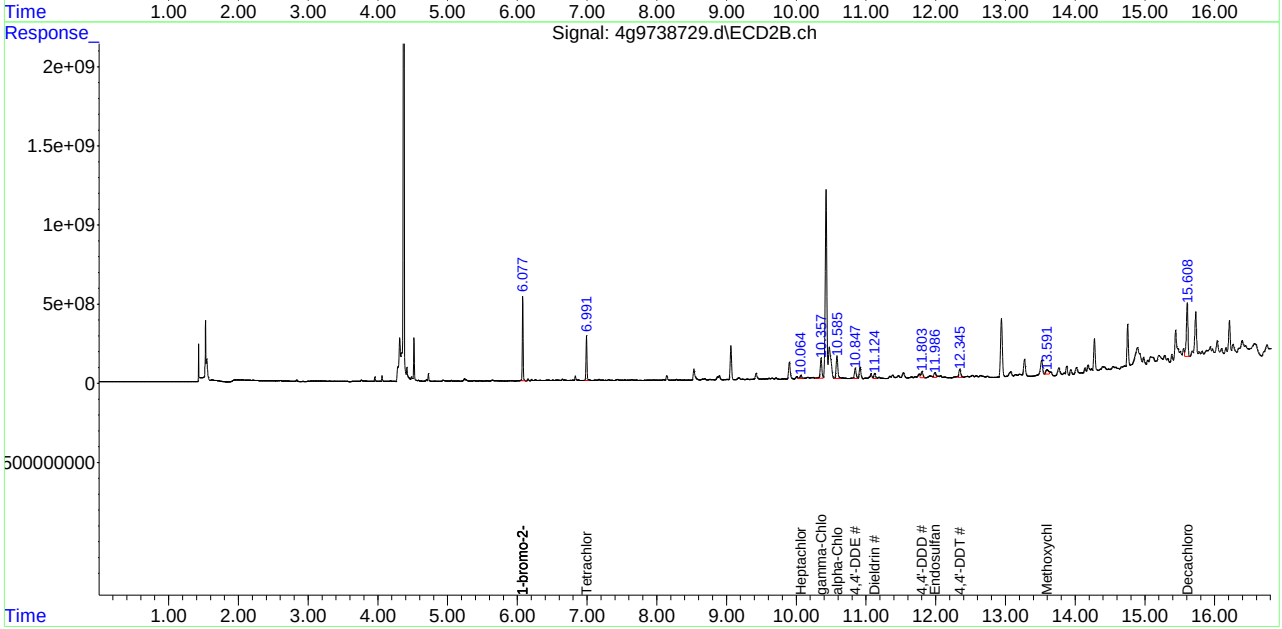
Quantitation Report (QT Reviewed)

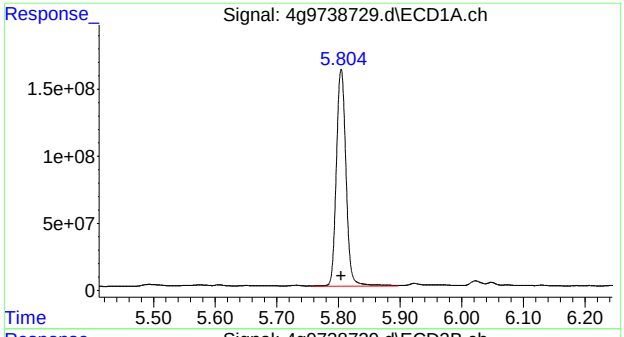
Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738729.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 9:28 pm
Operator : mahalial
Sample : jd91339-6 m
Misc : op55792,g4g4376,5.4,,,10,1
ALS Vial : 96 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:21:47 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

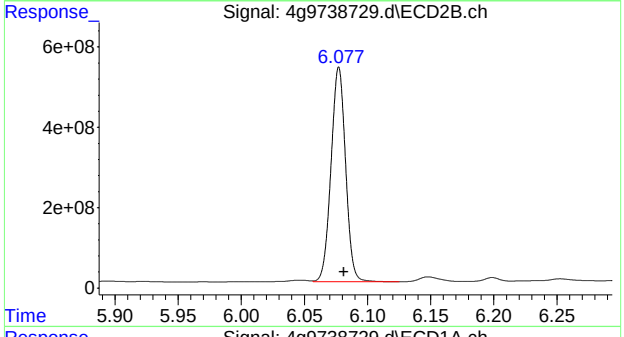






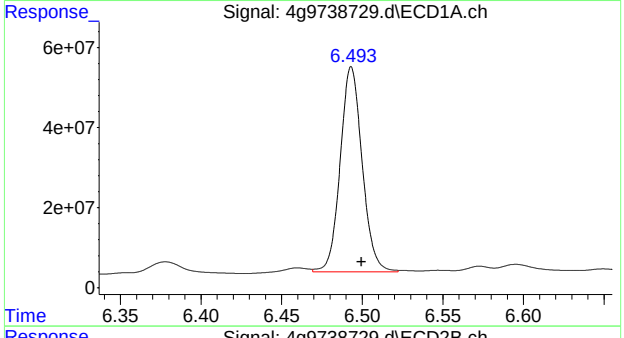
#1 1-bromo-2-nitrobenzene

R.T.: 5.805 min
Delta R.T.: 0.000 min
Response: 1768738756
Conc: 5.00 PPB



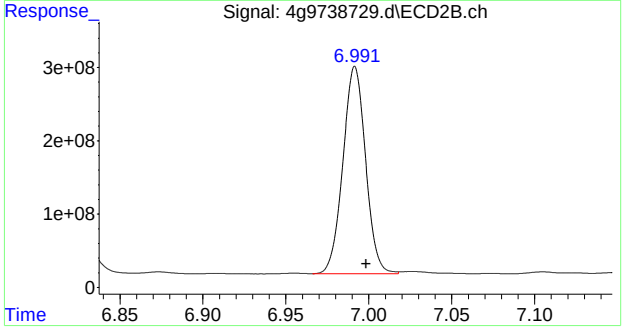
#1 1-bromo-2-nitrobenzene

R.T.: 6.077 min
Delta R.T.: -0.004 min
Response: 4292911110
Conc: 5.00 PPB



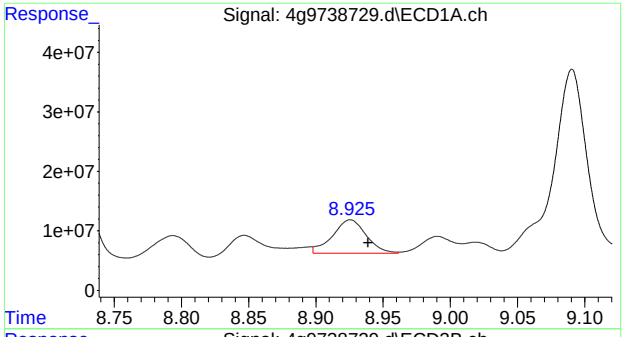
#2 Tetrachloro-m-xylene

R.T.: 6.493 min
Delta R.T.: -0.007 min
Response: 484973812
Conc: 1.61 PPB m



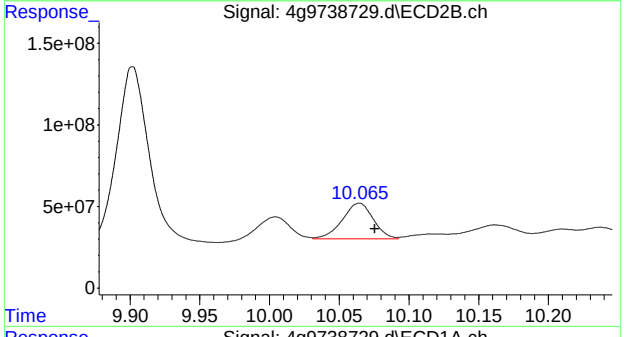
#2 Tetrachloro-m-xylene

R.T.: 6.991 min
Delta R.T.: -0.007 min
Response: 2692464353
Conc: 3.14 PPB m



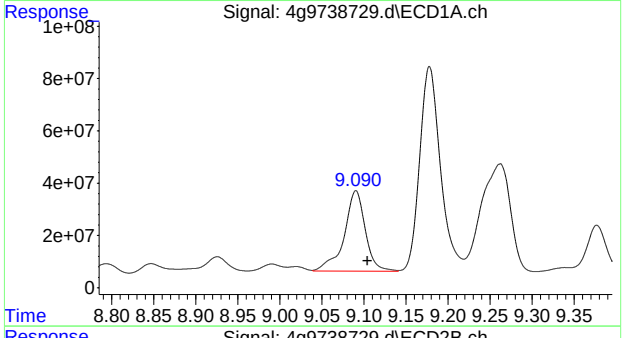
#11 Heptachlor Epoxide

R.T.: 8.925 min
Delta R.T.: -0.014 min
Response: 97174452
Conc: 0.23 PPB m



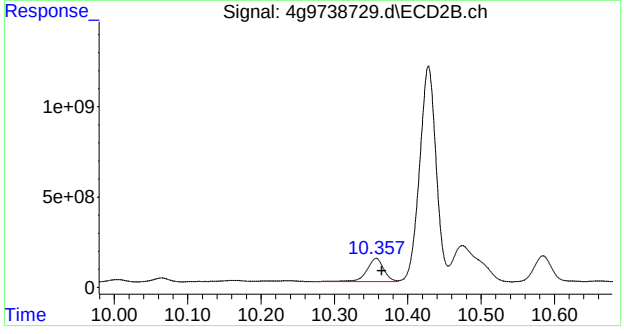
#11 Heptachlor Epoxide

R.T.: 10.065 min
Delta R.T.: -0.010 min
Response: 336527996
Conc: 0.32 PPB m



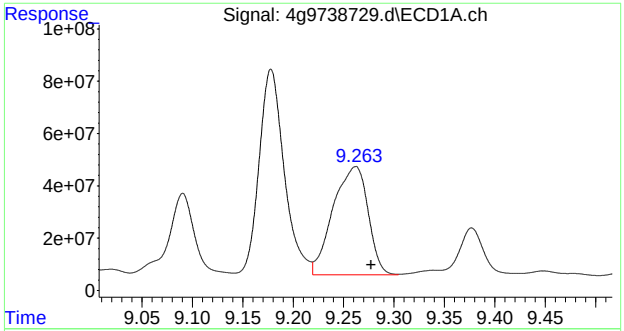
#12 gamma-Chlordane

R.T.: 9.090 min
Delta R.T.: -0.014 min
Response: 538624979
Conc: 1.17 PPB m



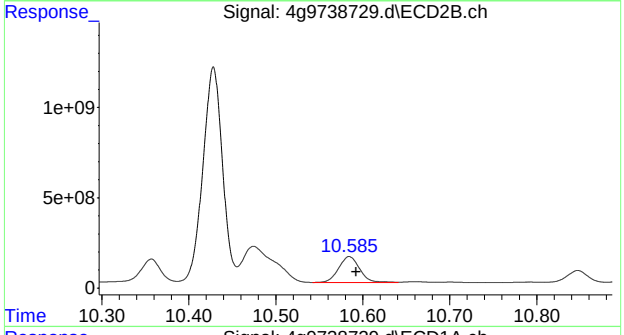
#12 gamma-Chlordane

R.T.: 10.357 min
Delta R.T.: -0.007 min
Response: 2065102434
Conc: 2.01 PPB m



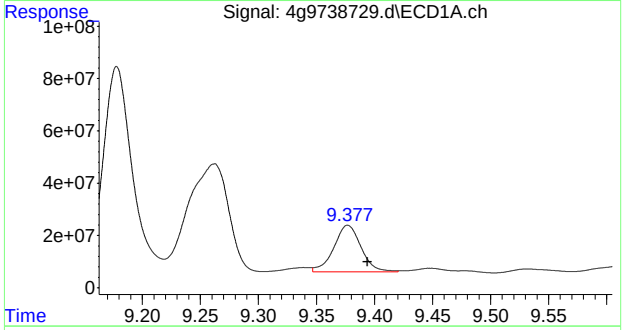
#13 alpha-Chlordane

R.T.: 9.263 min
Delta R.T.: -0.015 min
Response: 999062598
Conc: 2.22 PPB m



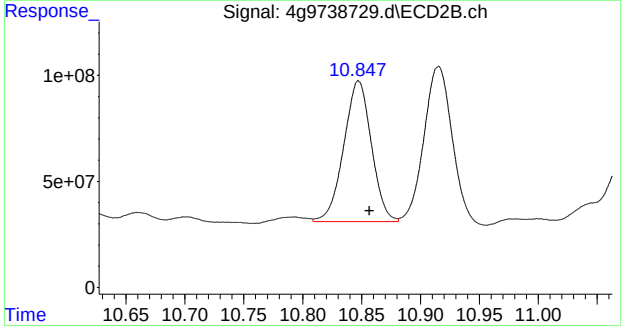
#13 alpha-Chlordane

R.T.: 10.585 min
Delta R.T.: -0.008 min
Response: 2415847515
Conc: 2.52 PPB m



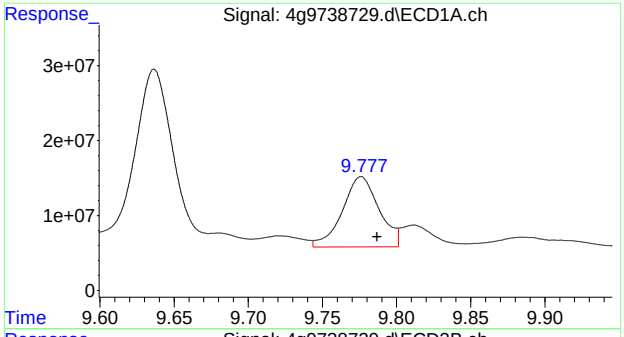
#15 4,4'-DDE

R.T.: 9.377 min
Delta R.T.: -0.017 min
Response: 289858539
Conc: 0.68 PPB m



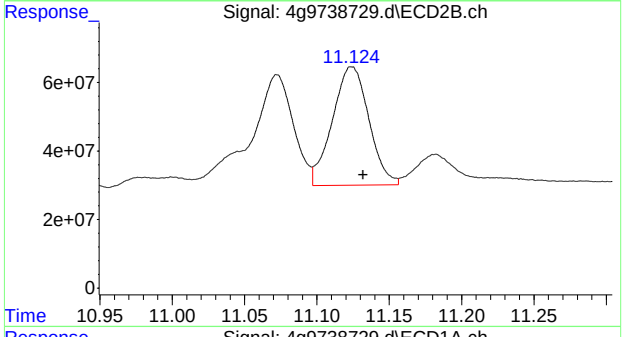
#15 4,4'-DDE

R.T.: 10.847 min
Delta R.T.: -0.010 min
Response: 1082902521
Conc: 1.06 PPB m



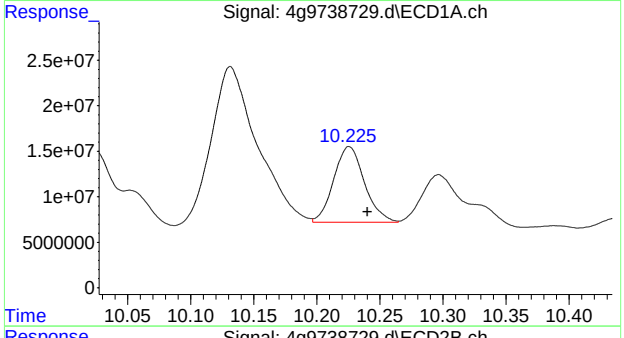
#16 Dieldrin

R.T.: 9.776 min
Delta R.T.: -0.011 min
Response: 161334041
Conc: 0.35 PPB



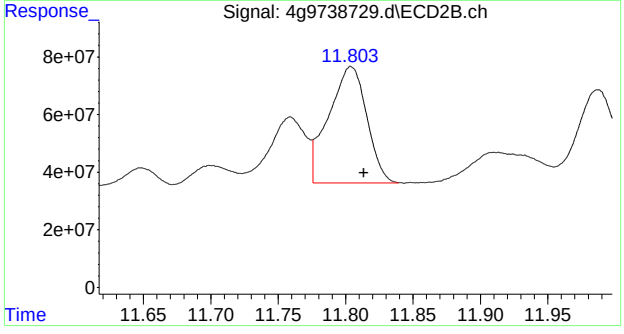
#16 Dieldrin

R.T.: 11.124 min
Delta R.T.: -0.008 min
Response: 607850304
Conc: 0.58 PPB



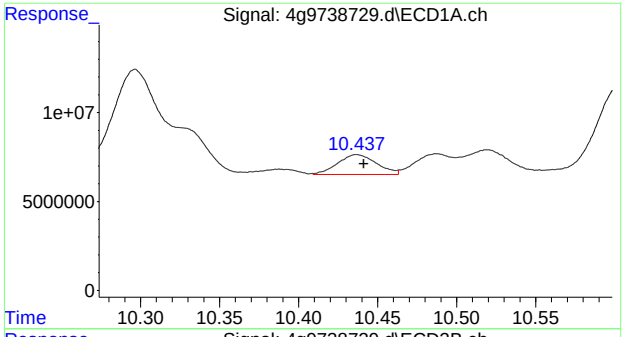
#18 4,4'-DDD

R.T.: 10.225 min
Delta R.T.: -0.015 min
Response: 140537136
Conc: 0.42 PPB m



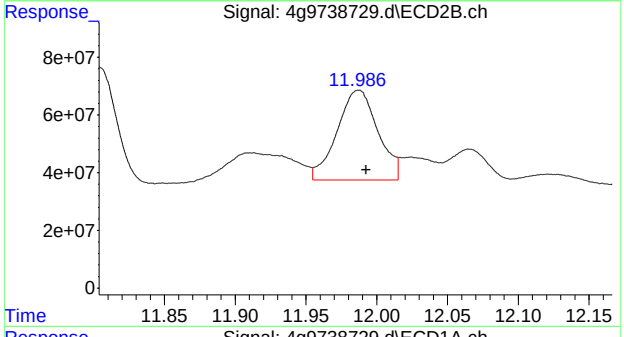
#18 4,4'-DDD

R.T.: 11.803 min
Delta R.T.: -0.010 min
Response: 785685938
Conc: 0.95 PPB m



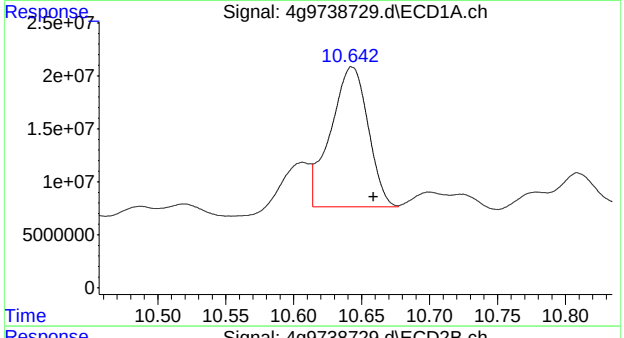
#19 Endosulfan II

R.T.: 10.437 min
Delta R.T.: -0.004 min
Response: 19386674
Conc: 0.05 PPB m



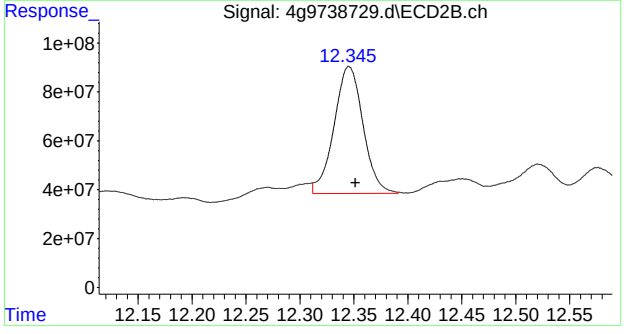
#19 Endosulfan II

R.T.: 11.986 min
Delta R.T.: -0.006 min
Response: 628624922
Conc: 0.71 PPB m



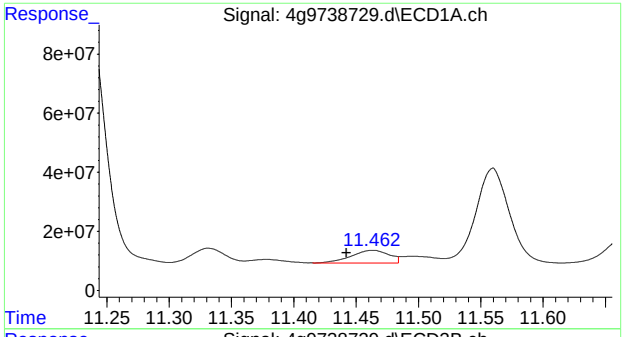
#20 4,4'-DDT

R.T.: 10.642 min
Delta R.T.: -0.017 min
Response: 251713309
Conc: 0.77 PPB m



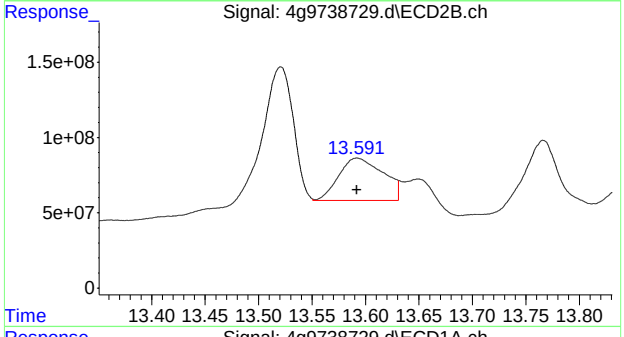
#20 4,4'-DDT

R.T.: 12.345 min
Delta R.T.: -0.007 min
Response: 973099303
Conc: 1.17 PPB m



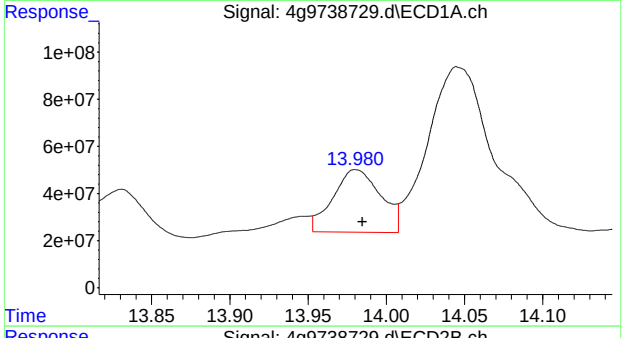
#23 Methoxychlor

R.T.: 11.462 min
Delta R.T.: 0.020 min
Response: 89903259
Conc: 0.57 PPB m



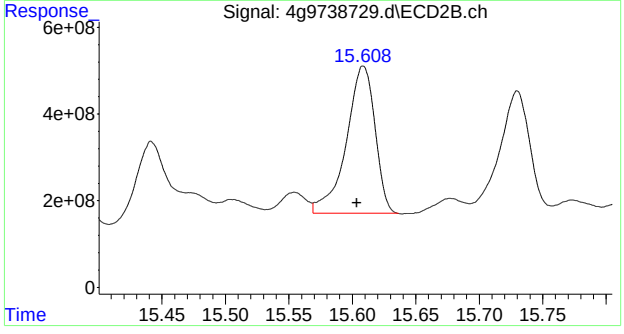
#23 Methoxychlor

R.T.: 13.591 min
Delta R.T.: 0.000 min
Response: 812746216
Conc: 2.16 PPB m



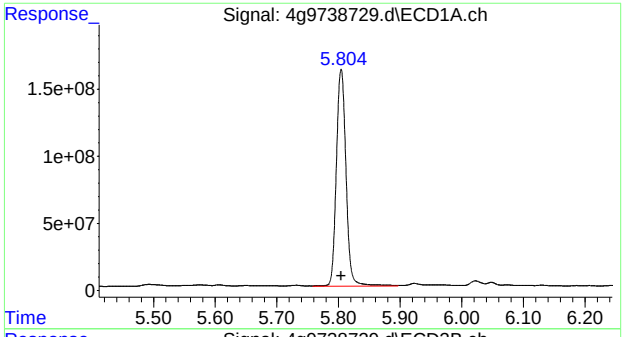
#26 Decachlorobiphenyl

R.T.: 13.980 min
Delta R.T.: -0.005 min
Response: 564047674
Conc: 1.76 PPB m



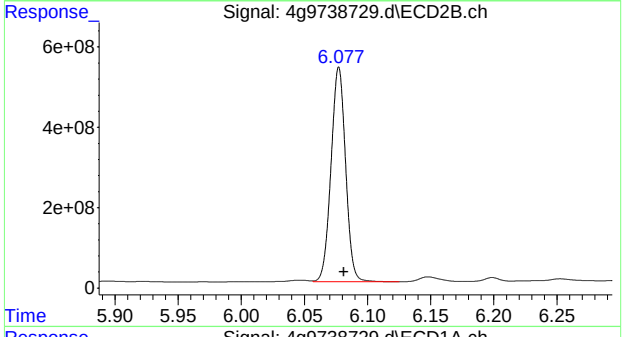
#26 Decachlorobiphenyl

R.T.: 15.608 min
Delta R.T.: 0.005 min
Response: 5364445112
Conc: 11.31 PPB m



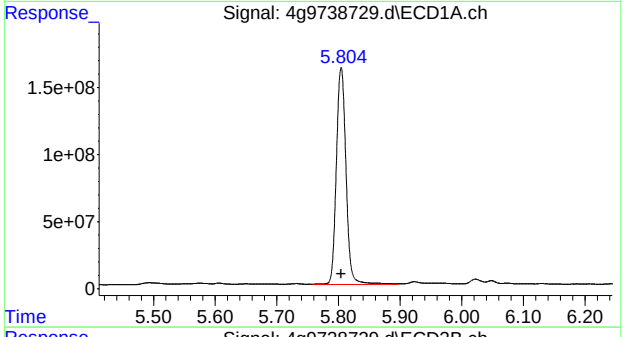
#27 1-bromo-2-nitrobenzeneA

R.T.: 5.805 min
Delta R.T.: 0.000 min
Response: 1768738756
Conc: 5.00 PPB



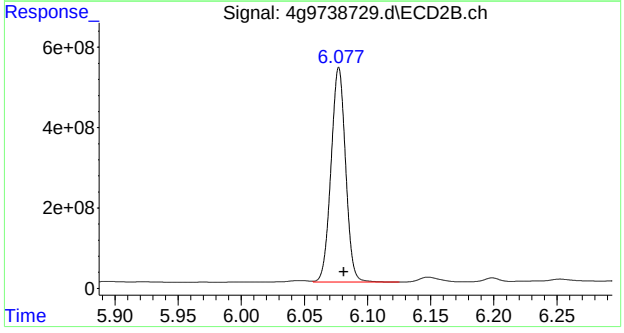
#27 1-bromo-2-nitrobenzeneA

R.T.: 6.077 min
Delta R.T.: -0.004 min
Response: 4292911110
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 5.805 min
Delta R.T.: 0.000 min
Response: 1768738756
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 6.077 min
Delta R.T.: -0.004 min
Response: 4292911110
Conc: 5.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco 07/03/24 07:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738730.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 9:50 pm
Operator : mahalial
Sample : jd91339-7 m
Misc : op55792,g4g4376,5.2,,,10,1
ALS Vial : 97 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:24:00 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	5.802	6.080	824.9E6	3613.1E6	5.000m	5.000
27)	I 1-bromo-2...	5.802	6.080	824.5E6	3613.1E6	5.000m	5.000
33)	I 1-bromo-2...	5.802	6.080	825.1E6	3613.1E6	5.000m	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	6.499	6.998	417.9E6	2830.3E6	2.967	3.921 #
	Spiked Amount 40.000	Range 30 - 150		Recovery =		7.42%#	9.80%#
26)	SA Decachlor...	13.978	15.600	525.2E6	1972.8E6	3.505m	4.943m#
	Spiked Amount 40.000			Recovery =		8.76%	12.36%
	Target Compounds						
15)	B 4,4'-DDE	9.384	10.852	15956185	79241069	0.081m	0.092m
16)	MA Dieldrin	9.783	11.128	9392225	51844351	0.044m	0.058m#
20)	MA 4,4'-DDT	10.649	12.340	5454939	158.0E6	0.036m	0.227m#

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

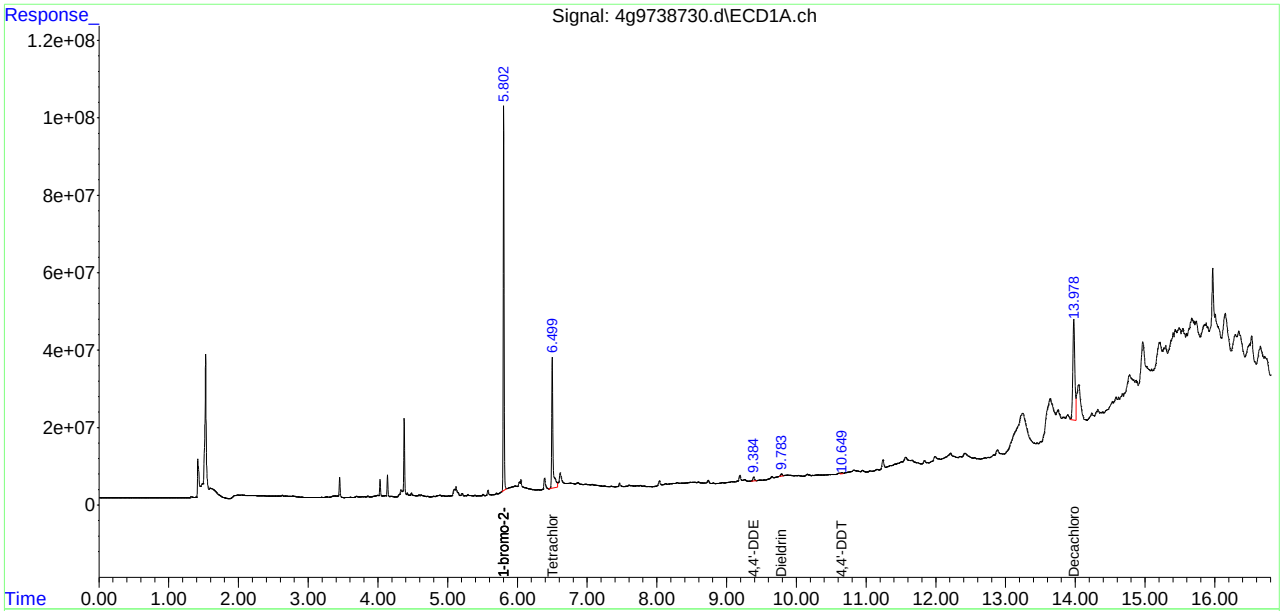
11.1.9 11

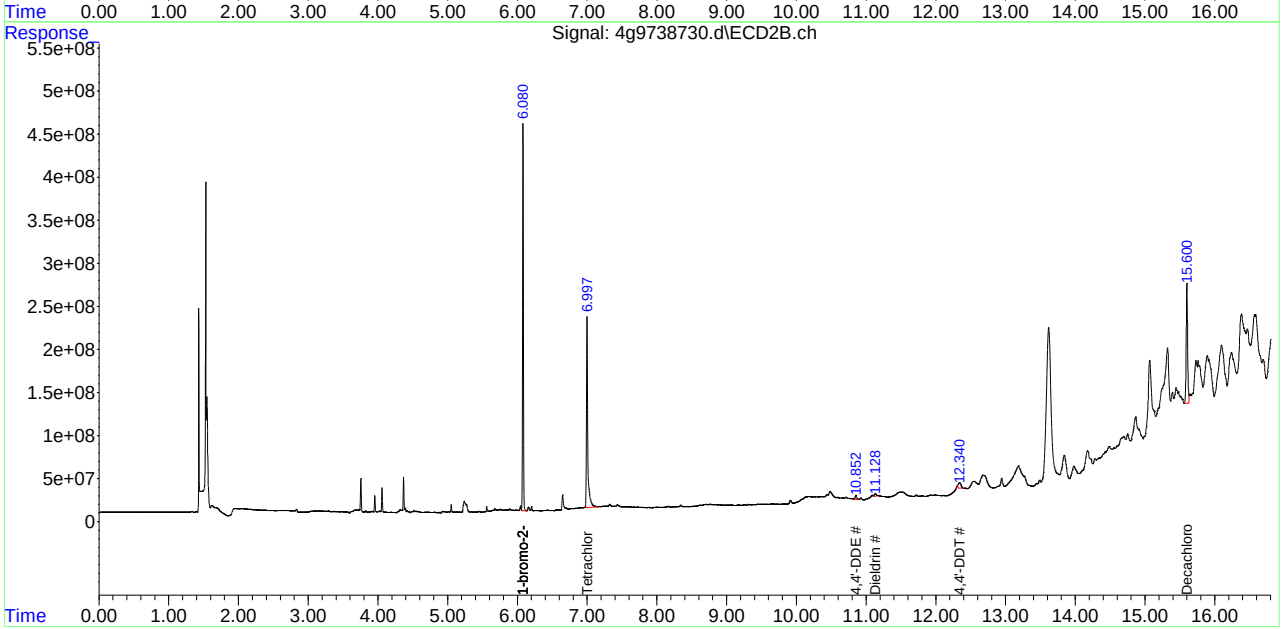
Quantitation Report (QT Reviewed)

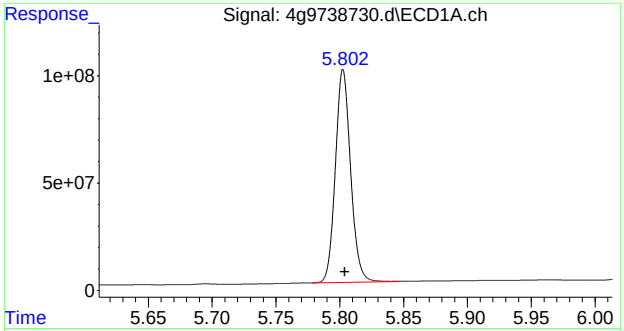
Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738730.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 9:50 pm
Operator : mahalial
Sample : jd91339-7 m
Misc : op55792,g4g4376,5.2,,,10,1
ALS Vial : 97 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:24:00 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

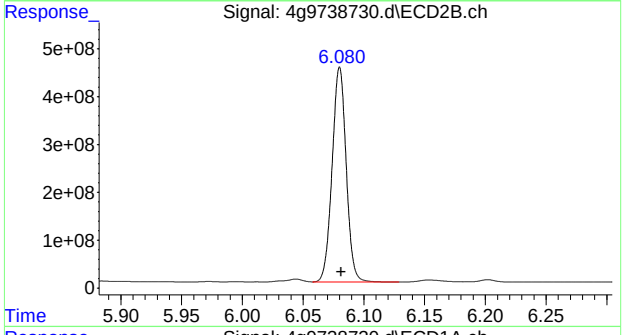






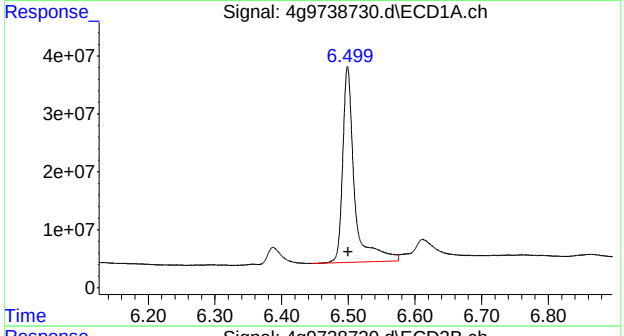
#1 1-bromo-2-nitrobenzene

R.T.: 5.802 min
Delta R.T.: -0.002 min
Response: 824873219
Conc: 5.00 PPB m



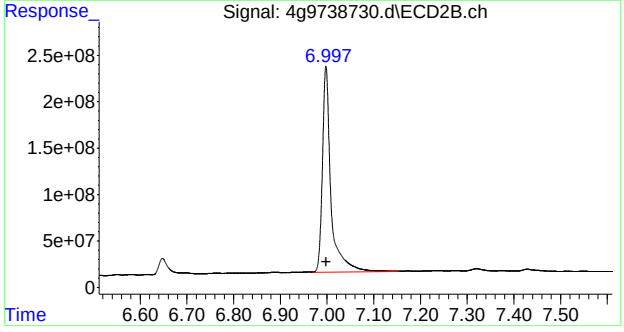
#1 1-bromo-2-nitrobenzene

R.T.: 6.080 min
Delta R.T.: -0.001 min
Response: 3613120894
Conc: 5.00 PPB



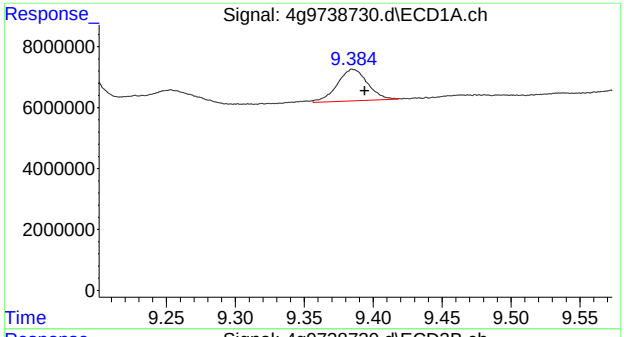
#2 Tetrachloro-m-xylene

R.T.: 6.499 min
Delta R.T.: 0.000 min
Response: 417908100
Conc: 2.97 PPB



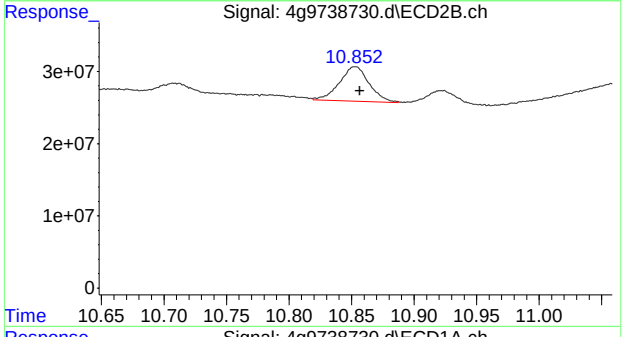
#2 Tetrachloro-m-xylene

R.T.: 6.998 min
Delta R.T.: 0.000 min
Response: 2830313658
Conc: 3.92 PPB



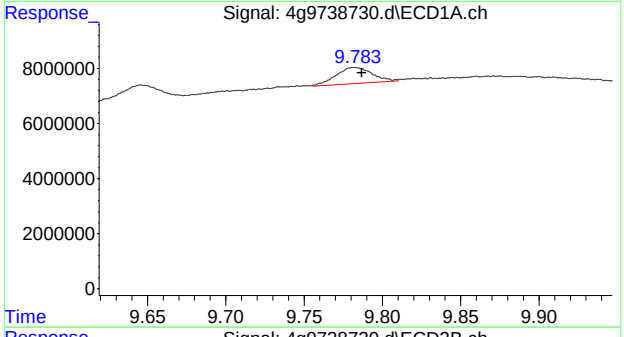
#15 4,4'-DDE

R.T.: 9.384 min
Delta R.T.: -0.010 min
Response: 15956185
Conc: 0.08 PPB m



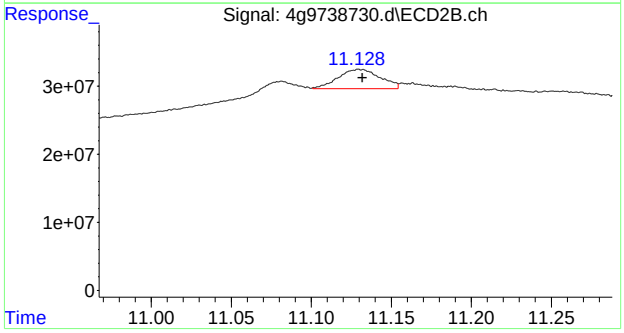
#15 4,4'-DDE

R.T.: 10.852 min
Delta R.T.: -0.005 min
Response: 79241069
Conc: 0.09 PPB m



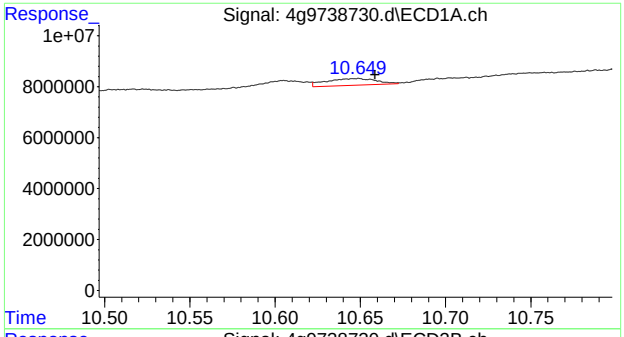
#16 Dieldrin

R.T.: 9.783 min
Delta R.T.: -0.004 min
Response: 9392225
Conc: 0.04 PPB m



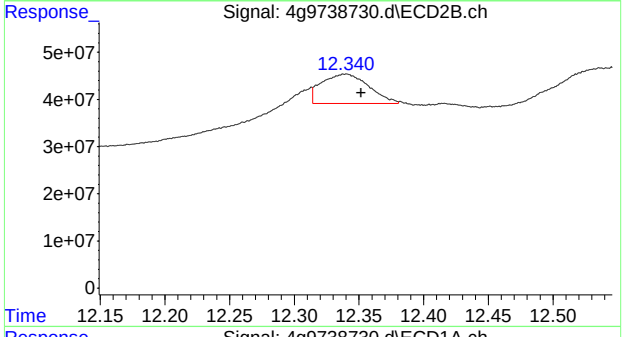
#16 Dieldrin

R.T.: 11.128 min
Delta R.T.: -0.004 min
Response: 51844351
Conc: 0.06 PPB m



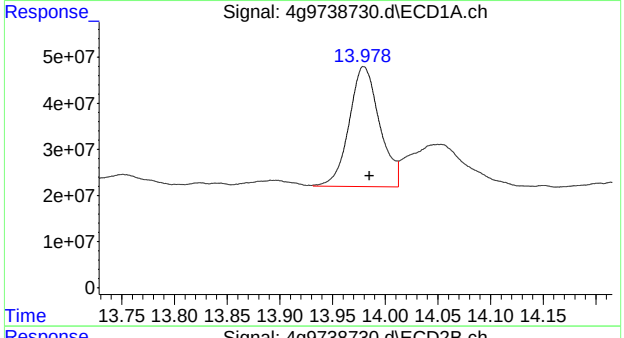
#20 4,4'-DDT

R.T.: 10.649 min
Delta R.T.: -0.010 min
Response: 5454939
Conc: 0.04 PPB m



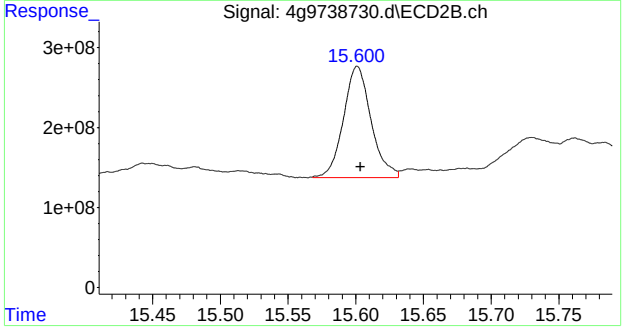
#20 4,4'-DDT

R.T.: 12.340 min
Delta R.T.: -0.012 min
Response: 157997486
Conc: 0.23 PPB m



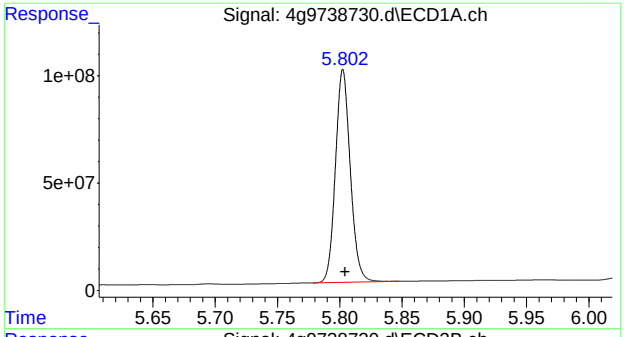
#26 Decachlorobiphenyl

R.T.: 13.978 min
Delta R.T.: -0.006 min
Response: 525176190
Conc: 3.51 PPB m



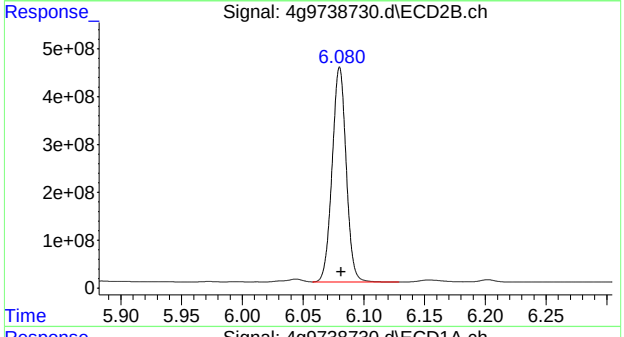
#26 Decachlorobiphenyl

R.T.: 15.600 min
Delta R.T.: -0.003 min
Response: 1972843408
Conc: 4.94 PPB m



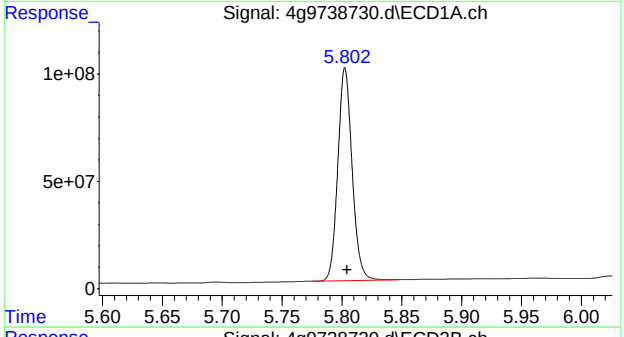
#27 1-bromo-2-nitrobenzeneA

R.T.: 5.802 min
Delta R.T.: -0.002 min
Response: 824470137
Conc: 5.00 PPB m



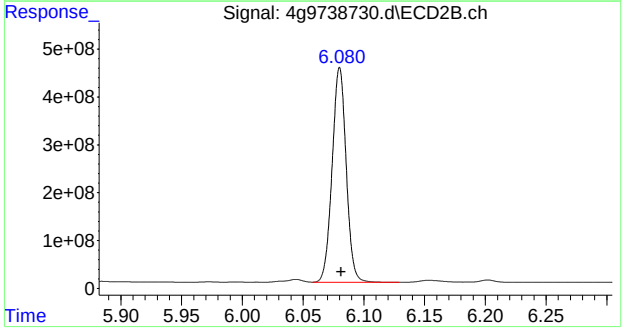
#27 1-bromo-2-nitrobenzeneA

R.T.: 6.080 min
Delta R.T.: -0.001 min
Response: 3613120894
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 5.802 min
Delta R.T.: -0.002 min
Response: 825134109
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 6.080 min
Delta R.T.: -0.001 min
Response: 3613120894
Conc: 5.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Syra Marie Pacheco
07/03/24 07:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738731.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 10:13 pm
Operator : mahalial
Sample : jd91339-8 m
Misc : op55792,g4g4376,5.1,,,10,1
ALS Vial : 98 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:25:08 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	5.802	6.079	896.0E6	4182.5E6	5.000m	5.000
27)	I 1-bromo-2...	5.802	6.079	895.6E6	4182.5E6	5.000m	5.000
33)	I 1-bromo-2...	5.802	6.079	896.0E6	4182.5E6	5.000m	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	6.498	6.997	484.7E6	3096.7E6	3.168	3.706
	Spiked Amount 40.000	Range 30 - 150		Recovery =		7.92%#	9.26%#
26)	SA Decachlor...	13.979	15.601	483.1E6	1910.8E6	2.968m	4.136m#
	Spiked Amount 40.000			Recovery =		7.42%	10.34%
	Target Compounds						
15)	B 4,4'-DDE	9.384	10.851	12981773	60271100	0.060m	0.061m
18)	A 4,4'-DDD	10.229	11.801	5265097	30597114	0.031m	0.038m
20)	MA 4,4'-DDT	10.645	12.346	16386507	72911910	0.099m	0.090m

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

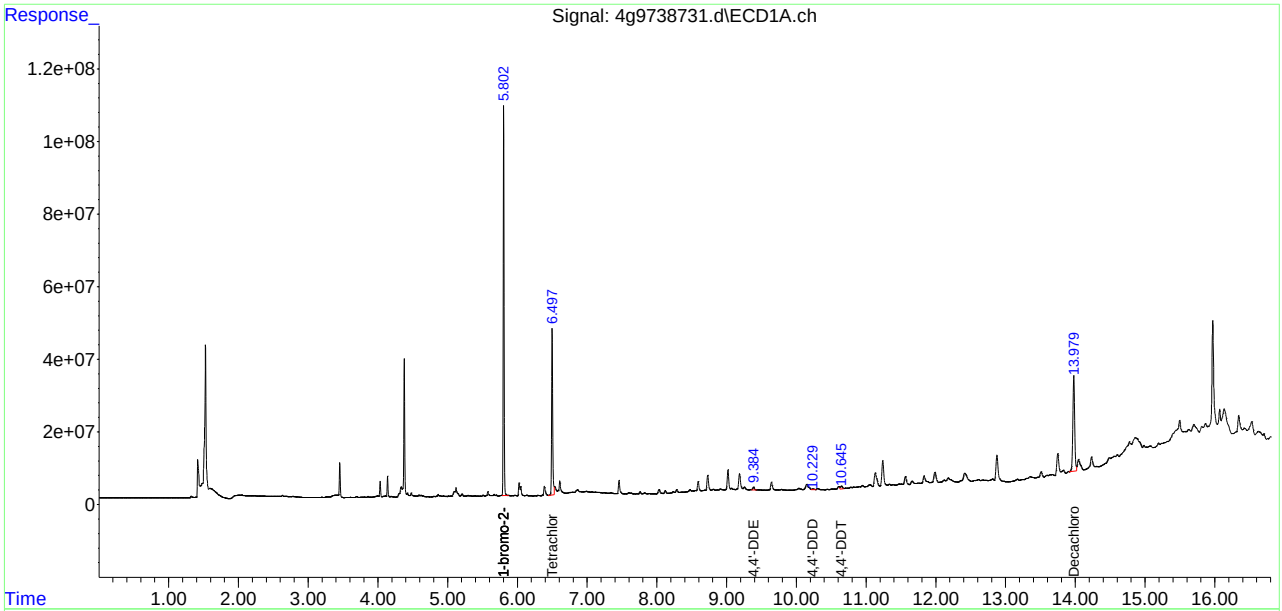
11.1.10 11

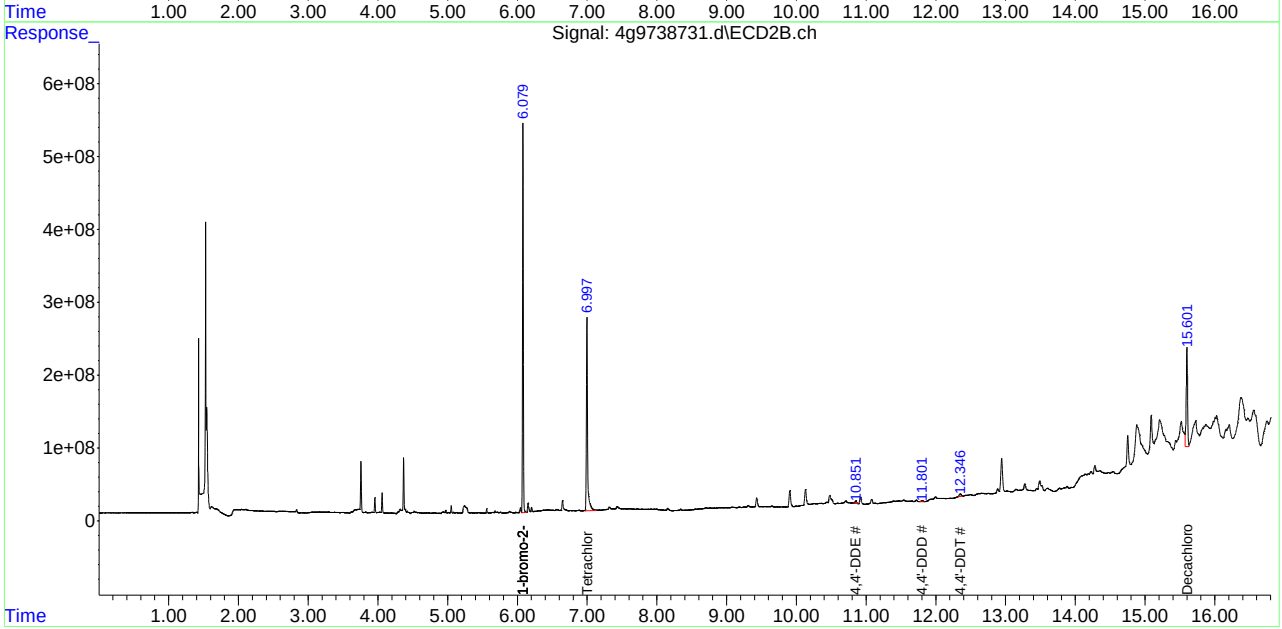
Quantitation Report (QT Reviewed)

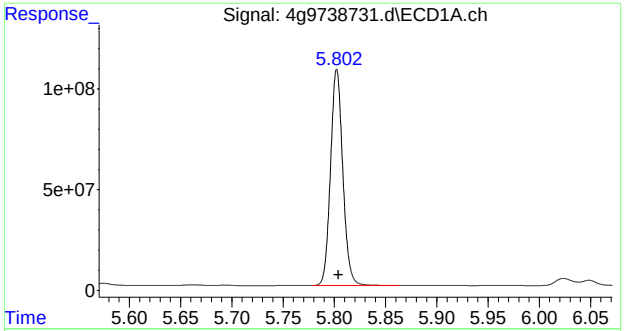
Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738731.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 10:13 pm
Operator : mahalial
Sample : jd91339-8 m
Misc : op55792,g4g4376,5.1,,,10,1
ALS Vial : 98 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:25:08 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

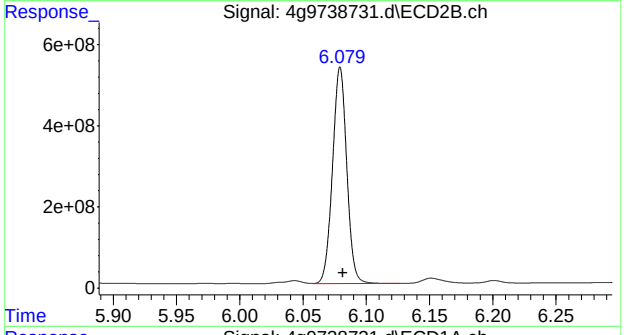






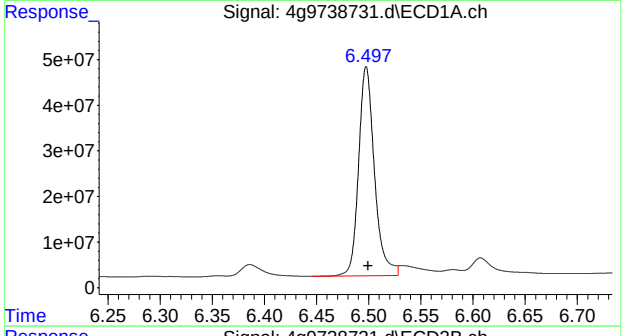
#1 1-bromo-2-nitrobenzene

R.T.: 5.802 min
Delta R.T.: -0.002 min
Response: 895990534
Conc: 5.00 PPB m



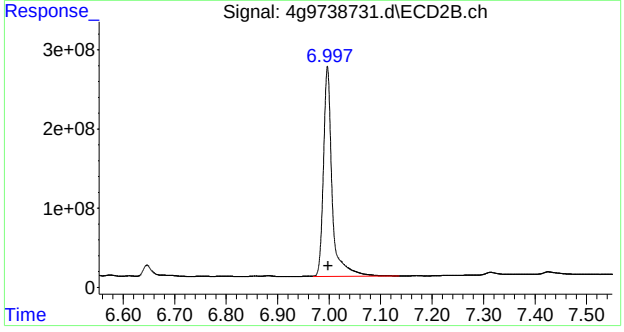
#1 1-bromo-2-nitrobenzene

R.T.: 6.079 min
Delta R.T.: -0.002 min
Response: 4182470474
Conc: 5.00 PPB



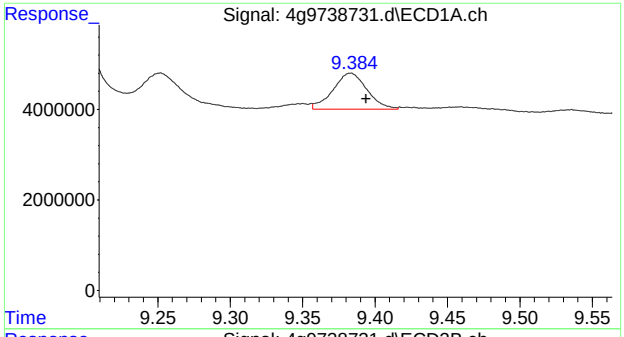
#2 Tetrachloro-m-xylene

R.T.: 6.498 min
Delta R.T.: -0.002 min
Response: 484686477
Conc: 3.17 PPB



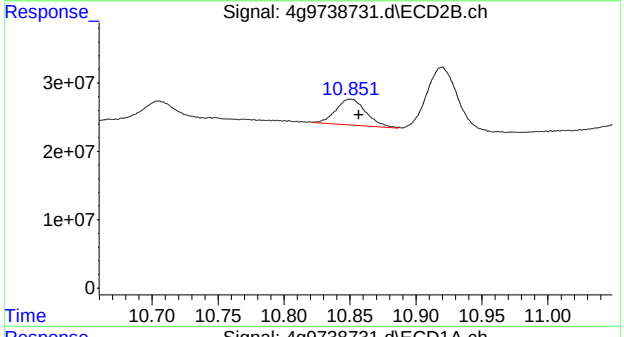
#2 Tetrachloro-m-xylene

R.T.: 6.997 min
Delta R.T.: -0.001 min
Response: 3096687428
Conc: 3.71 PPB



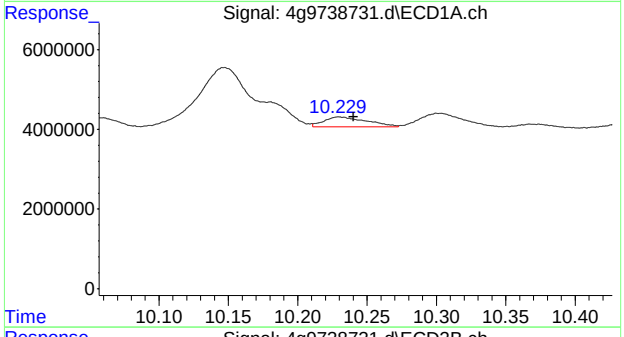
#15 4,4'-DDE

R.T.: 9.384 min
Delta R.T.: -0.010 min
Response: 12981773
Conc: 0.06 PPB m



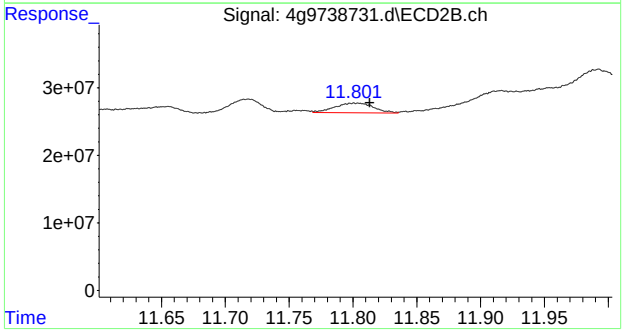
#15 4,4'-DDE

R.T.: 10.851 min
Delta R.T.: -0.006 min
Response: 60271100
Conc: 0.06 PPB m



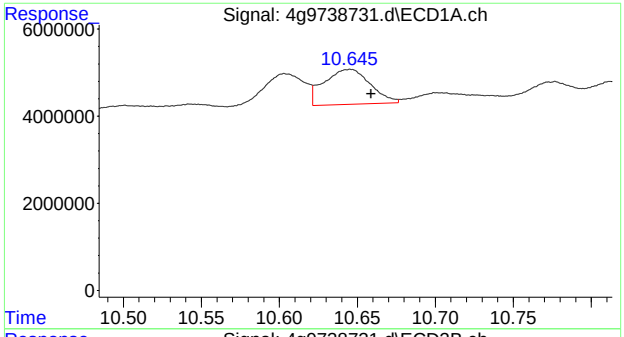
#18 4,4'-DDD

R.T.: 10.229 min
Delta R.T.: -0.011 min
Response: 5265097
Conc: 0.03 PPB m



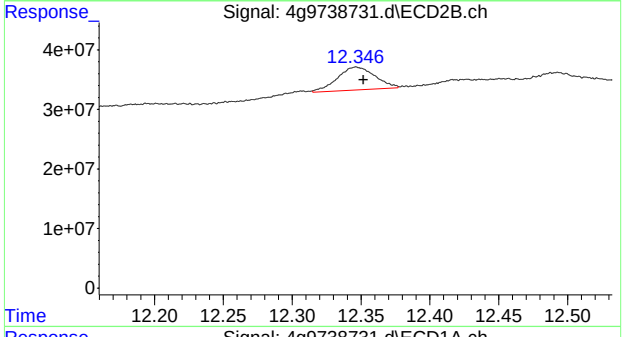
#18 4,4'-DDD

R.T.: 11.801 min
Delta R.T.: -0.013 min
Response: 30597114
Conc: 0.04 PPB m



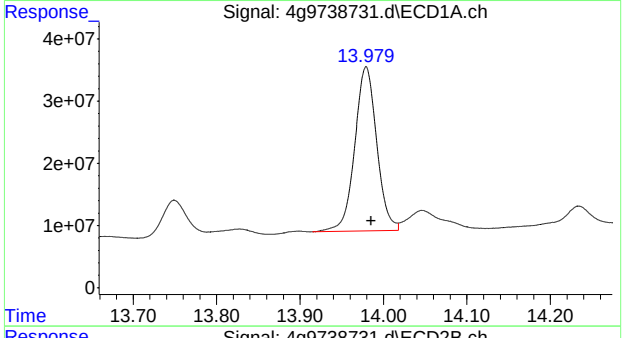
#20 4,4'-DDT

R.T.: 10.645 min
Delta R.T.: -0.014 min
Response: 16386507
Conc: 0.10 PPB m



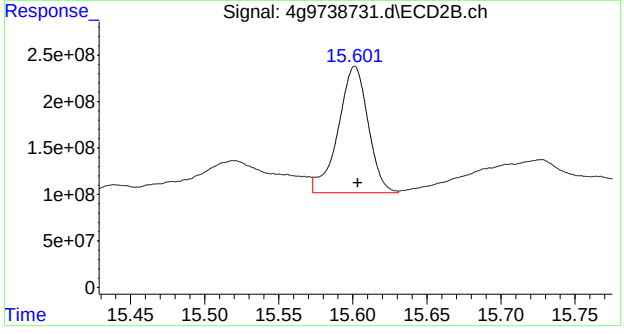
#20 4,4'-DDT

R.T.: 12.346 min
Delta R.T.: -0.006 min
Response: 72911910
Conc: 0.09 PPB m



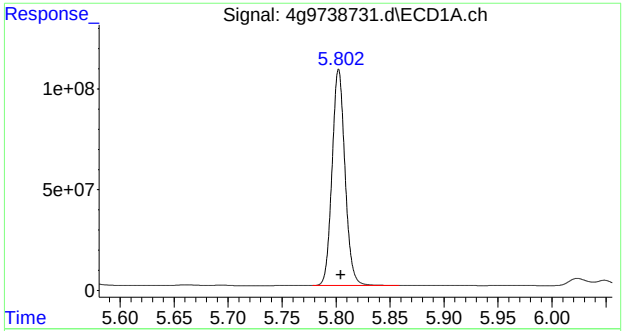
#26 Decachlorobiphenyl

R.T.: 13.979 min
Delta R.T.: -0.006 min
Response: 483074422
Conc: 2.97 PPB m



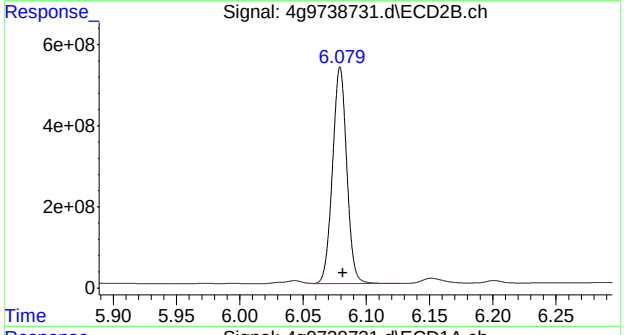
#26 Decachlorobiphenyl

R.T.: 15.601 min
Delta R.T.: -0.002 min
Response: 1910808502
Conc: 4.14 PPB m



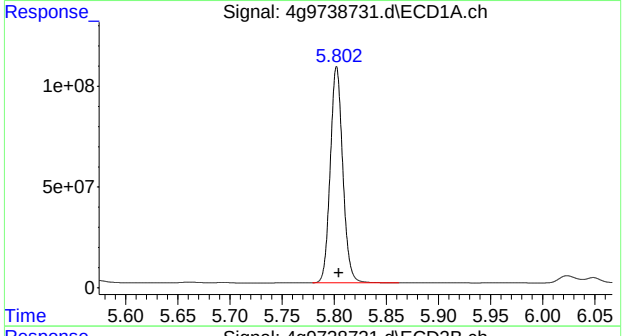
#27 1-bromo-2-nitrobenzeneA

R.T.: 5.802 min
Delta R.T.: -0.002 min
Response: 895575167
Conc: 5.00 PPB m



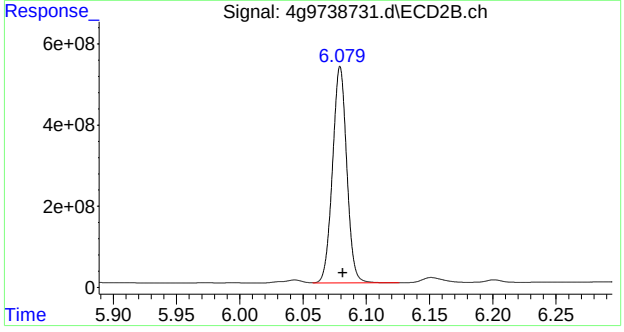
#27 1-bromo-2-nitrobenzeneA

R.T.: 6.079 min
Delta R.T.: -0.002 min
Response: 4182470474
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 5.802 min
Delta R.T.: -0.002 min
Response: 895993395
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 6.079 min
Delta R.T.: -0.002 min
Response: 4182470474
Conc: 5.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Syra Marie Pacheco
07/04/24 04:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738732.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 10:35 pm
Operator : mahalial
Sample : jd91339-9 m
Misc : op55792,g4g4376,5.0,,,10,1
ALS Vial : 99 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:26:02 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	5.802	6.078	889.8E6	4137.9E6	5.000	5.000
27)	I 1-bromo-2...	5.802	6.078	889.8E6	4137.9E6	5.000	5.000
33)	I 1-bromo-2...	5.802	6.078	889.8E6	4137.9E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	6.496	6.994	482.8E6	3261.8E6	3.178m	3.946m
	Spiked Amount 40.000	Range 30 - 150		Recovery =		7.94%#	9.87%#
26)	SA Decachlor...	13.979	15.599	557.0E6	1944.6E6	3.446m	4.254m
	Spiked Amount 40.000			Recovery =		8.62%	10.63%
	Target Compounds						
11)	B Heptachlo...	8.924	10.068	230.1E6	276.1E6	1.061m	0.271m#
12)	B gamma-Chl...	9.092	10.359	49376649	660.9E6	0.214m	0.666m#
13)	B alpha-Chl...	9.251f	10.583	107.1E6	158.6E6	0.473m	0.172m#
15)	B 4,4'-DDE	9.383	10.837f	24560.9E6	65540.6E6	114.964	66.802m#
16)	MA Dieldrin	9.781	11.124	26472629	86636484	0.115m	0.085m#
18)	A 4,4'-DDD	10.227	11.807	2084.0E6	7875.8E6	12.331	9.860
20)	MA 4,4'-DDT	10.647	12.346	4418.4E6	15406.3E6	26.959	19.288 #
23)	A Methoxychlor	11.432	13.587	28314682	224.0E6	0.354m	0.550m#
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

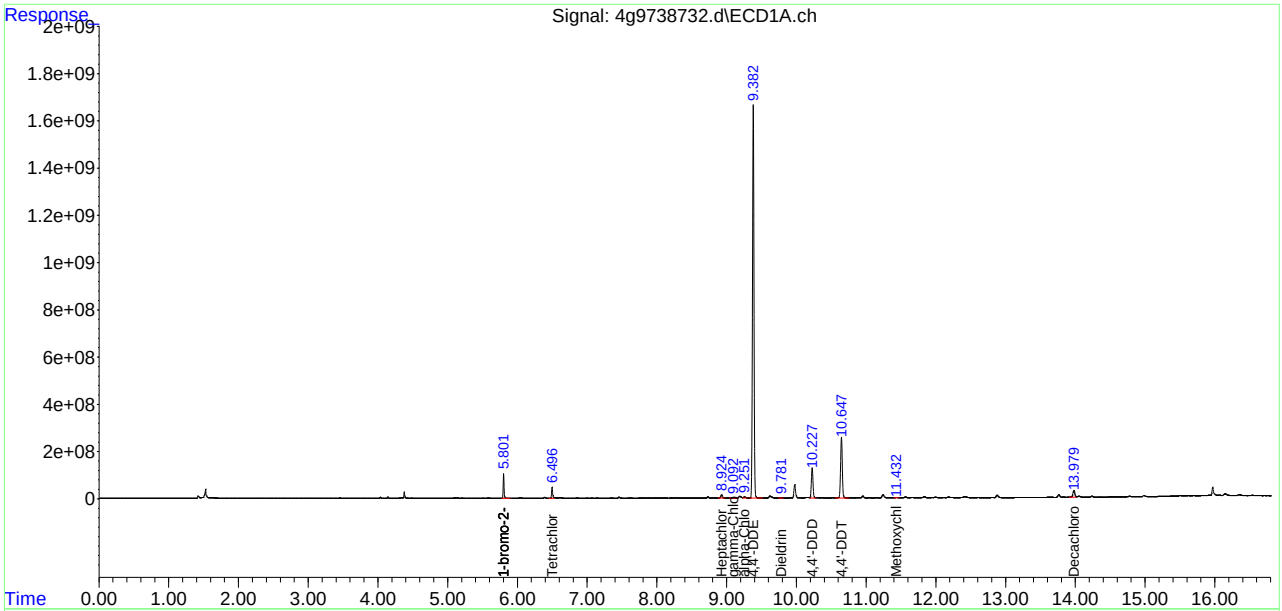
11.1.11
11

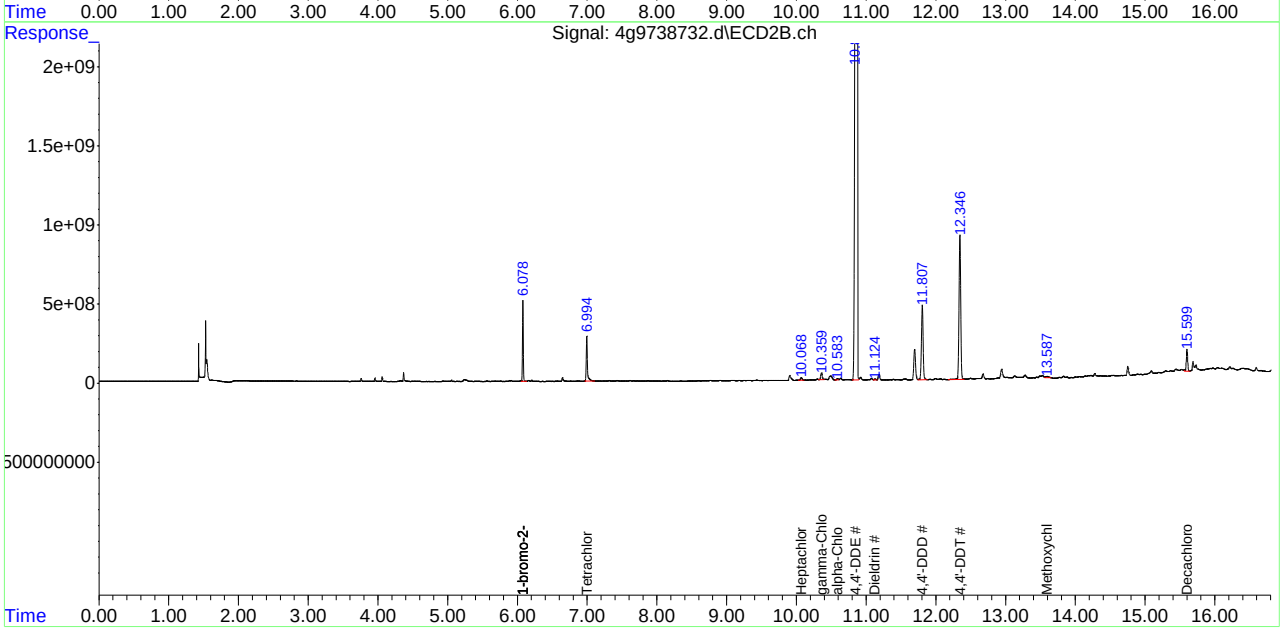
Quantitation Report (QT Reviewed)

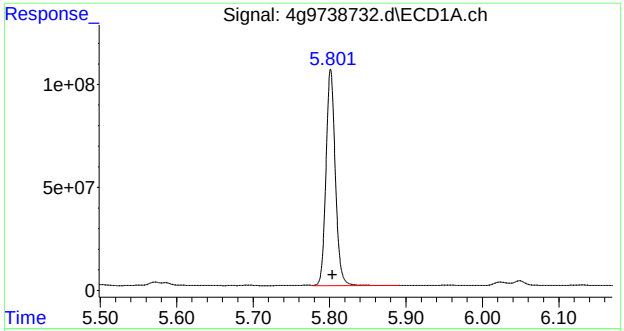
Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738732.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 10:35 pm
Operator : mahalial
Sample : jd91339-9 m
Misc : op55792,g4g4376,5.0,,,10,1
ALS Vial : 99 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:26:02 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

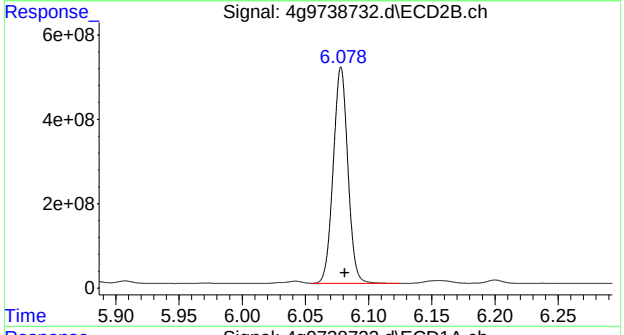






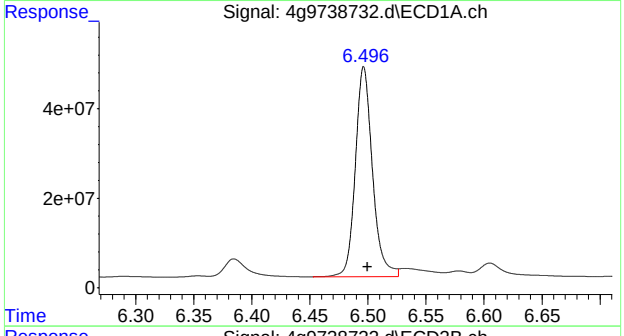
#1 1-bromo-2-nitrobenzene

R.T.: 5.802 min
Delta R.T.: -0.002 min
Response: 889805283
Conc: 5.00 PPB



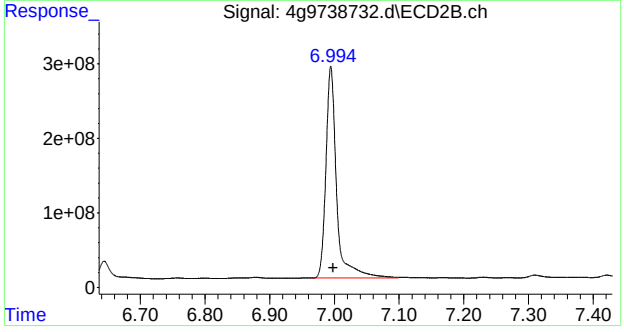
#1 1-bromo-2-nitrobenzene

R.T.: 6.078 min
Delta R.T.: -0.003 min
Response: 4137872832
Conc: 5.00 PPB



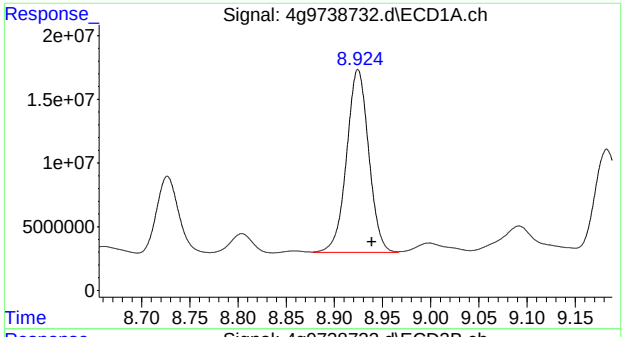
#2 Tetrachloro-m-xylene

R.T.: 6.496 min
Delta R.T.: -0.004 min
Response: 482798815
Conc: 3.18 PPB m



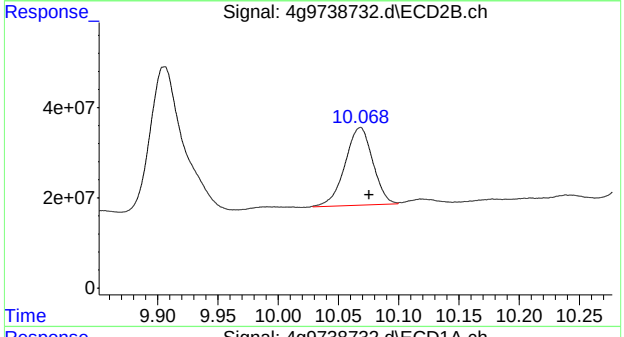
#2 Tetrachloro-m-xylene

R.T.: 6.994 min
Delta R.T.: -0.004 min
Response: 3261771954
Conc: 3.95 PPB m



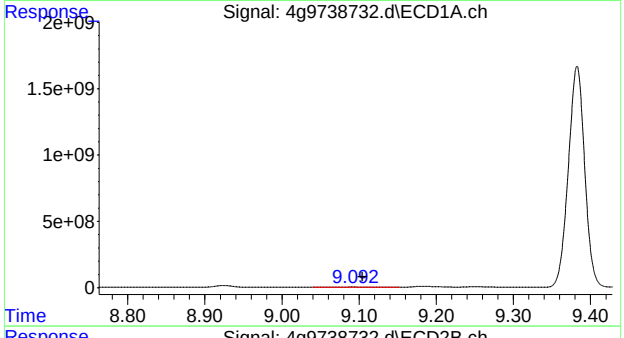
#11 Heptachlor Epoxide

R.T.: 8.924 min
Delta R.T.: -0.015 min
Response: 230085204
Conc: 1.06 PPB m



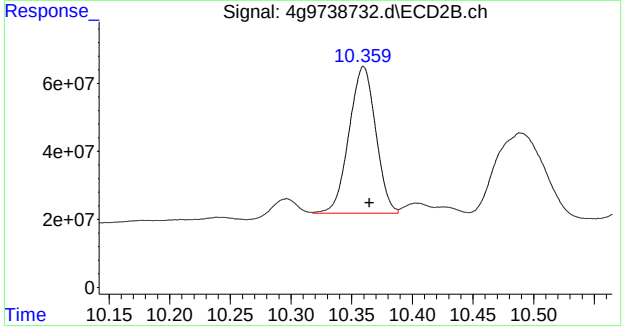
#11 Heptachlor Epoxide

R.T.: 10.068 min
Delta R.T.: -0.007 min
Response: 276116081
Conc: 0.27 PPB m



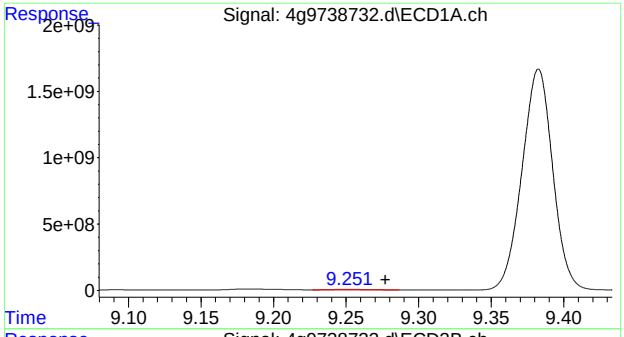
#12 gamma-Chlordane

R.T.: 9.092 min
Delta R.T.: -0.013 min
Response: 49376649
Conc: 0.21 PPB m



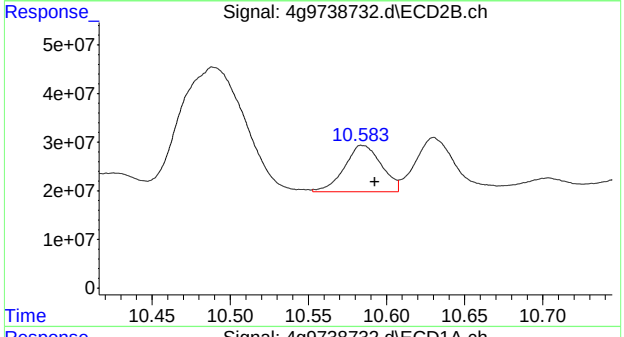
#12 gamma-Chlordane

R.T.: 10.359 min
Delta R.T.: -0.006 min
Response: 660881071
Conc: 0.67 PPB m



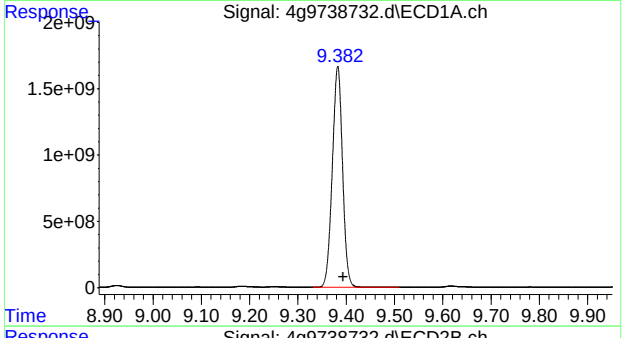
#13 alpha-Chlordane

R.T.: 9.251 min
Delta R.T.: -0.027 min
Response: 107094920
Conc: 0.47 PPB m



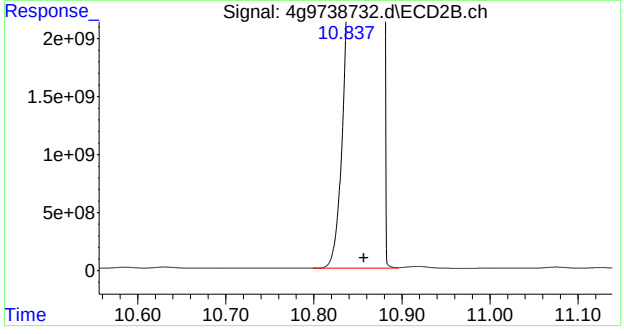
#13 alpha-Chlordane

R.T.: 10.583 min
Delta R.T.: -0.009 min
Response: 158643818
Conc: 0.17 PPB m



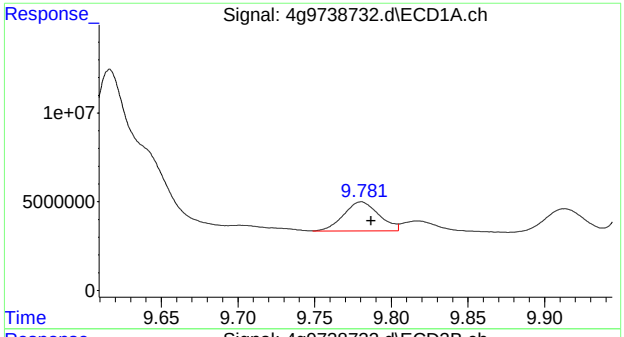
#15 4,4'-DDE

R.T.: 9.383 min
Delta R.T.: -0.011 min
Response: 24560914041
Conc: 114.96 PPB



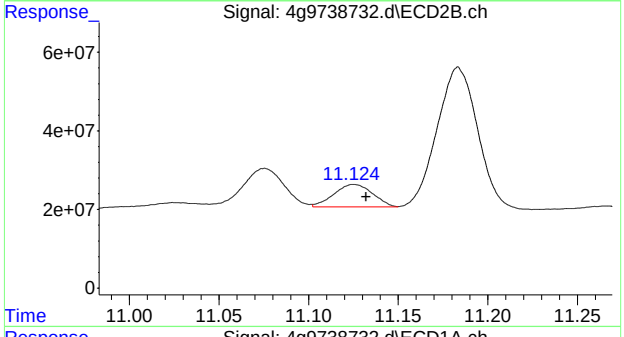
#15 4,4'-DDE

R.T.: 10.837 min
Delta R.T.: -0.020 min
Response: 65540560962
Conc: 66.80 PPB m



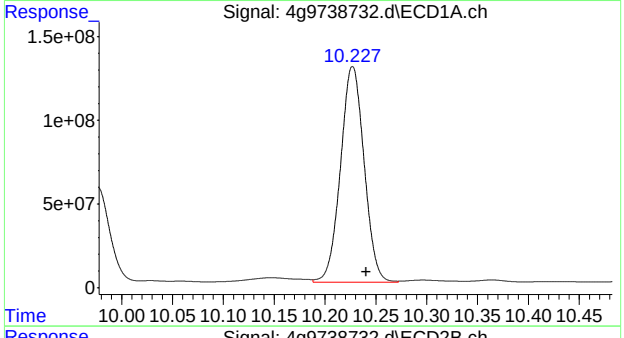
#16 Dieldrin

R.T.: 9.781 min
Delta R.T.: -0.006 min
Response: 26472629
Conc: 0.11 PPB m



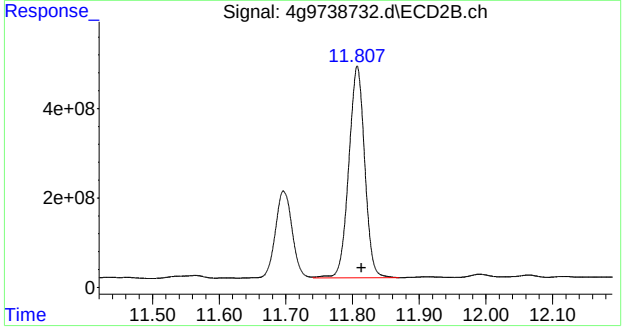
#16 Dieldrin

R.T.: 11.124 min
Delta R.T.: -0.008 min
Response: 86636484
Conc: 0.09 PPB m



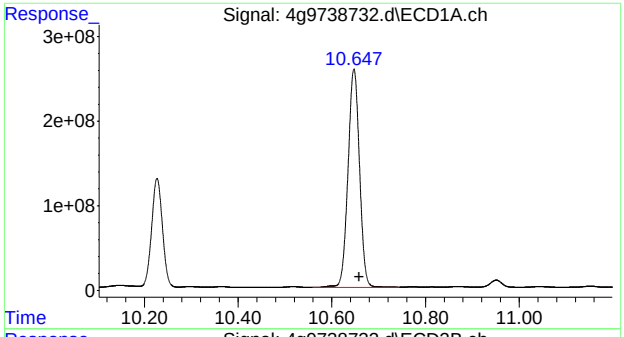
#18 4,4'-DDD

R.T.: 10.227 min
Delta R.T.: -0.013 min
Response: 2083963975
Conc: 12.33 PPB



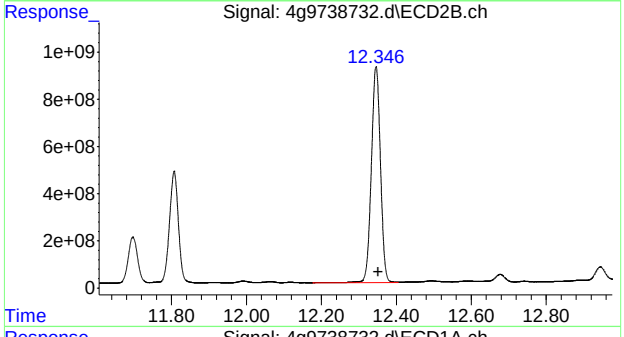
#18 4,4'-DDD

R.T.: 11.807 min
Delta R.T.: -0.006 min
Response: 7875750038
Conc: 9.86 PPB



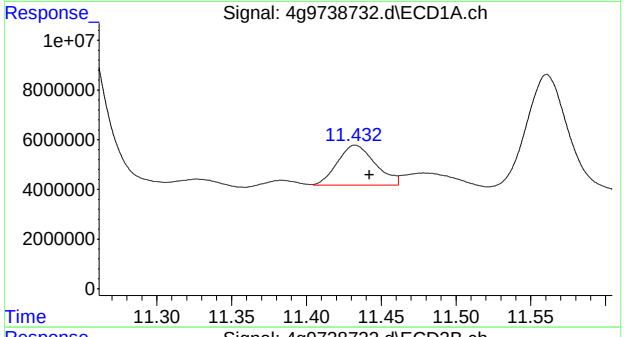
#20 4,4'-DDT

R.T.: 10.647 min
Delta R.T.: -0.011 min
Response: 4418378389
Conc: 26.96 PPB



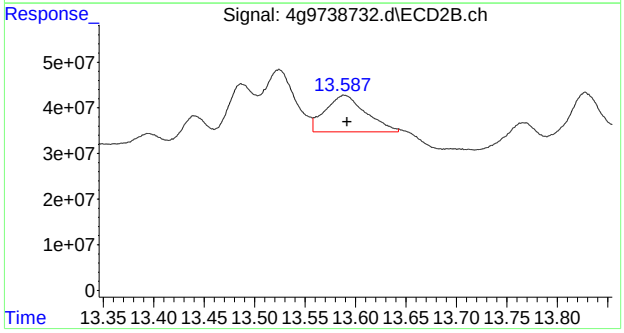
#20 4,4'-DDT

R.T.: 12.346 min
Delta R.T.: -0.005 min
Response: 15406348754
Conc: 19.29 PPB



#23 Methoxychlor

R.T.: 11.432 min
Delta R.T.: -0.011 min
Response: 28314682
Conc: 0.35 PPB m

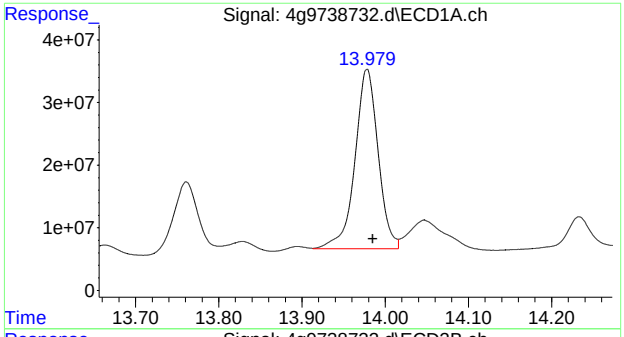


#23 Methoxychlor

R.T.: 13.587 min
Delta R.T.: -0.004 min
Response: 223960906
Conc: 0.55 PPB m

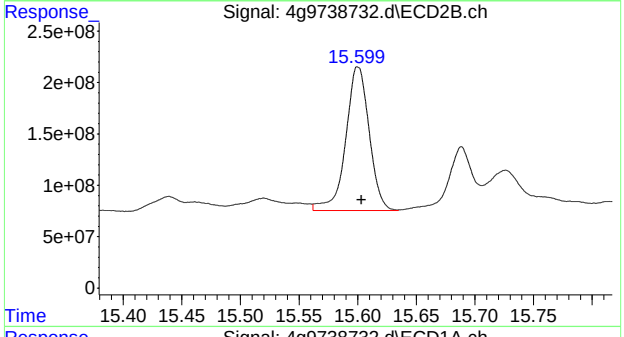
11.1.11

11



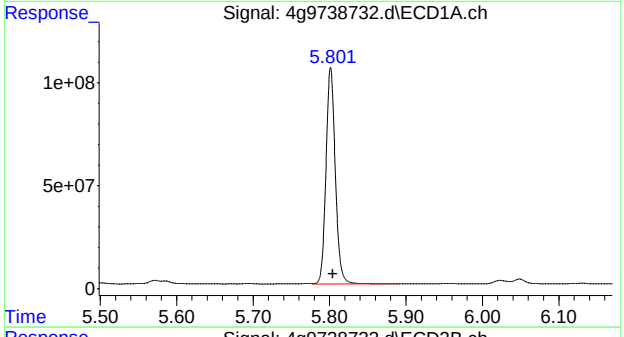
#26 Decachlorobiphenyl

R.T.: 13.979 min
Delta R.T.: -0.006 min
Response: 556970786
Conc: 3.45 PPB m



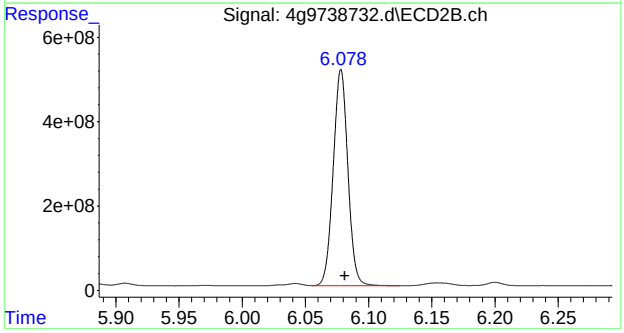
#26 Decachlorobiphenyl

R.T.: 15.599 min
Delta R.T.: -0.004 min
Response: 1944581296
Conc: 4.25 PPB m



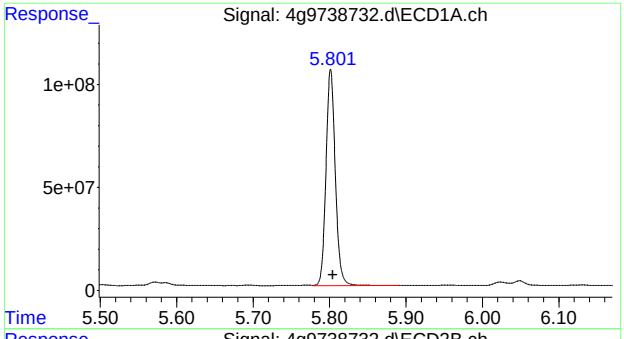
#27 1-bromo-2-nitrobenzeneA

R.T.: 5.802 min
Delta R.T.: -0.003 min
Response: 889805283
Conc: 5.00 PPB



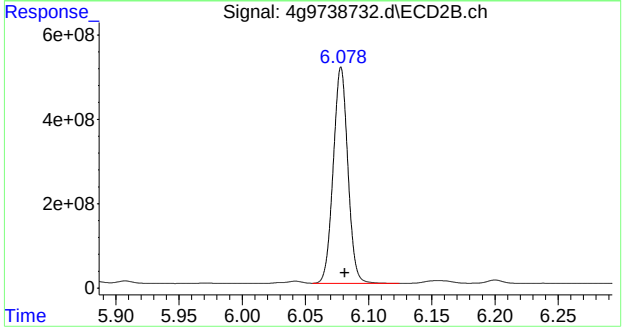
#27 1-bromo-2-nitrobenzeneA

R.T.: 6.078 min
Delta R.T.: -0.003 min
Response: 4137872832
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 5.802 min
Delta R.T.: -0.003 min
Response: 889805283
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 6.078 min
Delta R.T.: -0.003 min
Response: 4137872832
Conc: 5.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco 07/04/24 04:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\shahanit\G8G2531\
Data File : 8g57874.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Jul 2024 11:12 pm
Operator : mahalial
Sample : jd91339-9 m
Misc : op55792,g8g2531,5.0,,,10,5
ALS Vial : 107 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 07:04:28 2024
Quant Method : C:\msdchem\1\data\shahanit\G8G2531\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu Jul 04 05:58:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.247	4.653	829.5E6	607.3E6	5.000m	5.000
27)	I 1-bromo-2...	4.247	4.653	829.0E6	607.3E6	5.000m	5.000
33)	I 1-bromo-2...	4.247	4.653	828.9E6	607.3E6	5.000m	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	4.817	5.412	132.6E6	132.4E6	0.767m	0.741
	Spiked Amount 40.000	Range 30 - 150		Recovery =		1.92%#	1.85%#
26)	SA Decachlor...	11.488	13.755	119.2E6	76878344	0.639	0.908m#
	Spiked Amount 40.000			Recovery =		1.60%	2.27%
	Target Compounds						
11)	B Heptachlo...	6.832	8.056	46048769	12446493	0.250m	0.064m#
12)	B gamma-Chl...	6.965	8.340	5649237	29017759	0.026m	0.149 #
13)	B alpha-Chl...	7.103f	8.533	35884735	8109296	0.175m	0.045m#
15)	B 4,4'-DDE	7.231	8.799	3515.0E6	2930.1E6	17.914	15.832
16)	MA Dieldrin	7.581f	9.020	4650028	8650942	0.022m	0.044m#
18)	A 4,4'-DDD	7.976	9.699	51949030	64638604	0.362	0.421m
20)	MA 4,4'-DDT	8.356	10.208	1350.1E6	1084.7E6	8.293	9.777
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

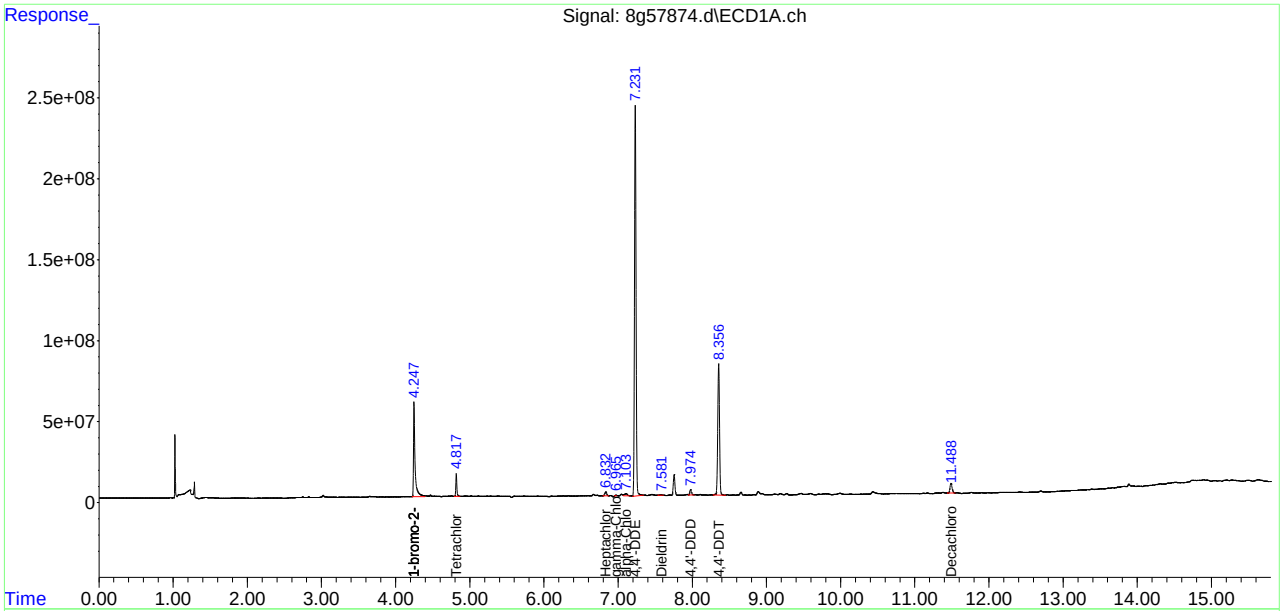
11.1.12 11

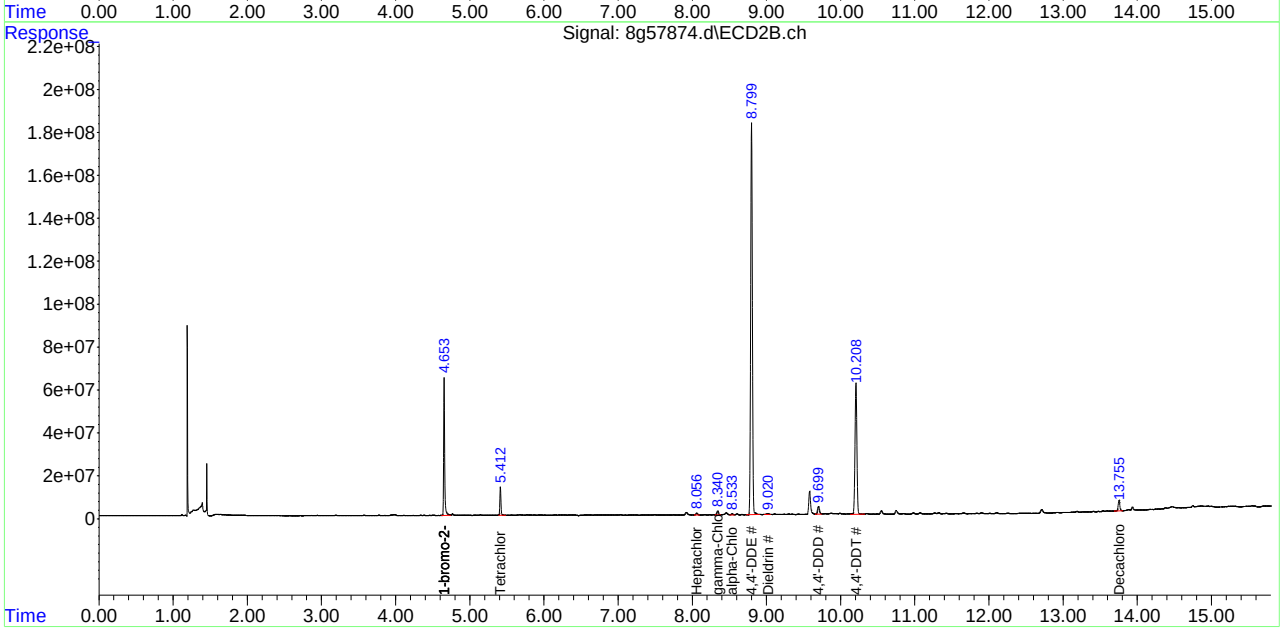
Quantitation Report (QT Reviewed)

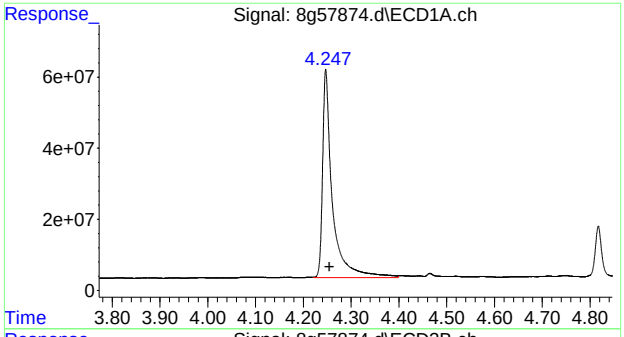
Data Path : C:\msdchem\1\data\shahanit\G8G2531\
Data File : 8g57874.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Jul 2024 11:12 pm
Operator : mahalial
Sample : jd91339-9 m
Misc : op55792,g8g2531,5.0,,,10,5
ALS Vial : 107 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 07:04:28 2024
Quant Method : C:\msdchem\1\data\shahanit\G8G2531\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu Jul 04 05:58:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

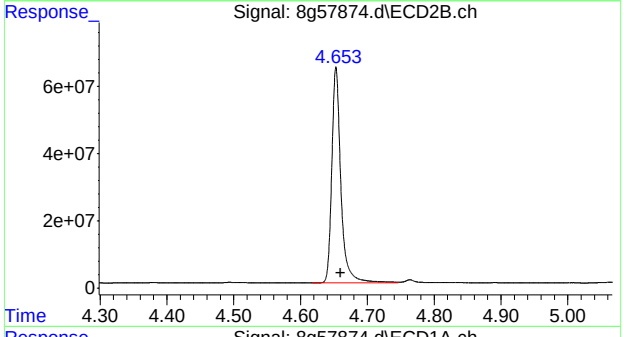






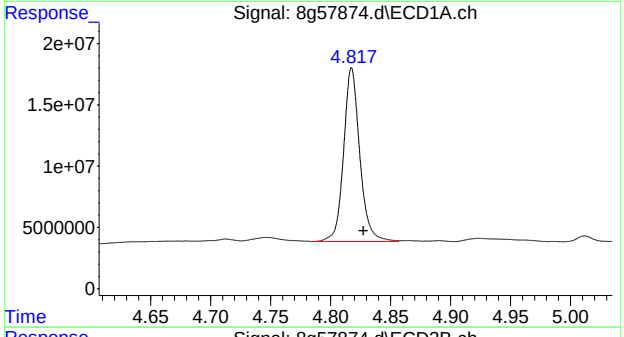
#1 1-bromo-2-nitrobenzene

R.T.: 4.247 min
Delta R.T.: -0.008 min
Response: 829500818
Conc: 5.00 PPB m



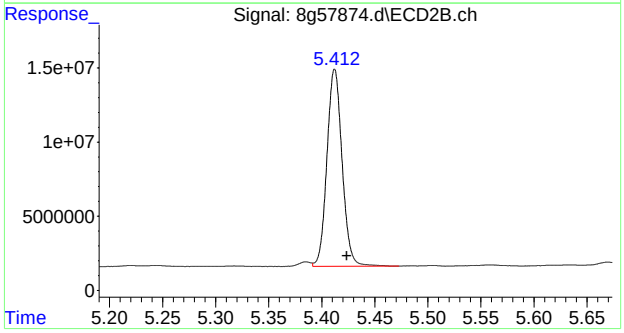
#1 1-bromo-2-nitrobenzene

R.T.: 4.653 min
Delta R.T.: -0.007 min
Response: 607264893
Conc: 5.00 PPB



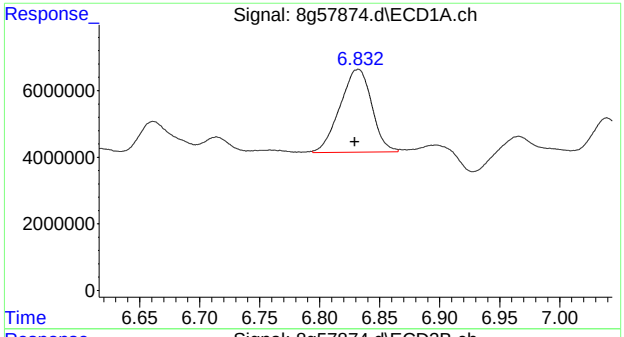
#2 Tetrachloro-m-xylene

R.T.: 4.817 min
Delta R.T.: -0.010 min
Response: 132646775
Conc: 0.77 PPB m



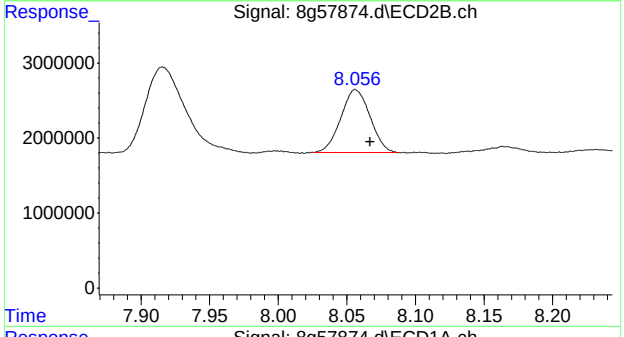
#2 Tetrachloro-m-xylene

R.T.: 5.412 min
Delta R.T.: -0.011 min
Response: 132426478
Conc: 0.74 PPB



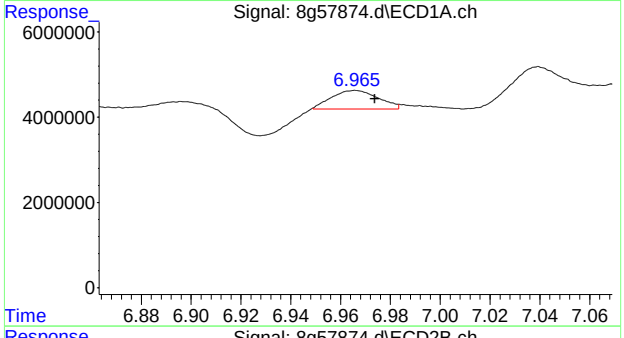
#11 Heptachlor Epoxide

R.T.: 6.832 min
Delta R.T.: 0.003 min
Response: 46048769
Conc: 0.25 PPB m



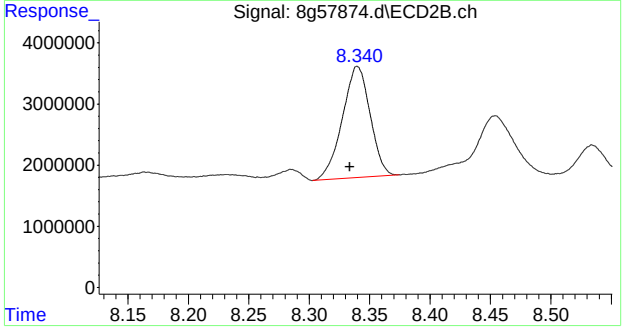
#11 Heptachlor Epoxide

R.T.: 8.056 min
Delta R.T.: -0.011 min
Response: 12446493
Conc: 0.06 PPB m



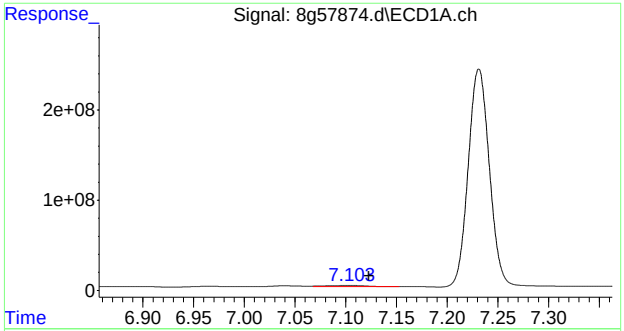
#12 gamma-Chlordane

R.T.: 6.965 min
Delta R.T.: -0.008 min
Response: 5649237
Conc: 0.03 PPB m



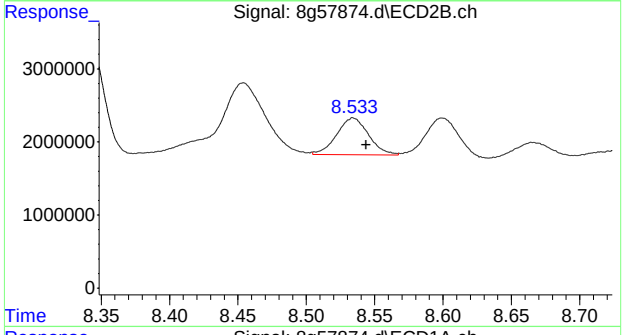
#12 gamma-Chlordane

R.T.: 8.340 min
Delta R.T.: 0.006 min
Response: 29017759
Conc: 0.15 PPB



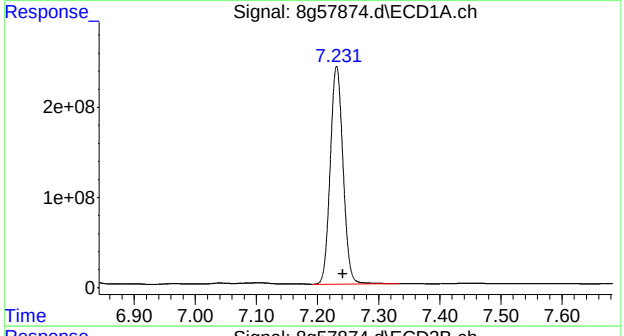
#13 alpha-Chlordane

R.T.: 7.103 min
Delta R.T.: -0.019 min
Response: 35884735
Conc: 0.18 PPB m



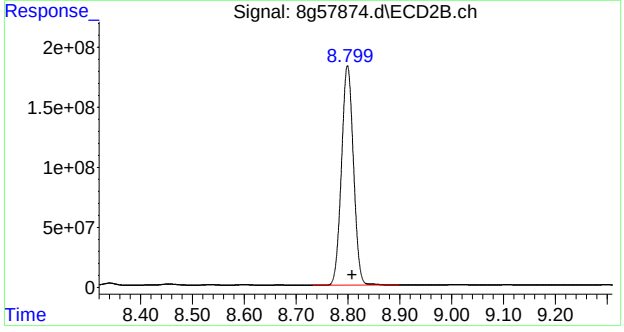
#13 alpha-Chlordane

R.T.: 8.533 min
Delta R.T.: -0.010 min
Response: 8109296
Conc: 0.05 PPB m



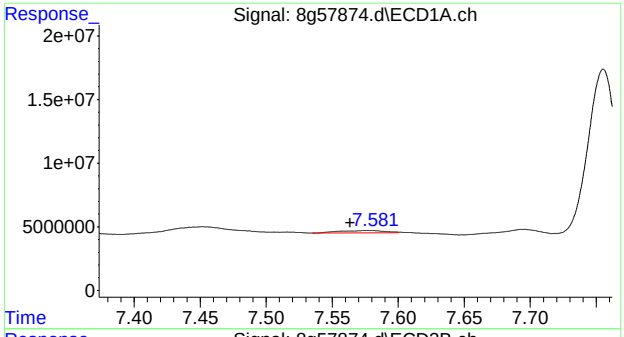
#15 4,4'-DDE

R.T.: 7.231 min
Delta R.T.: -0.010 min
Response: 3514986545
Conc: 17.91 PPB



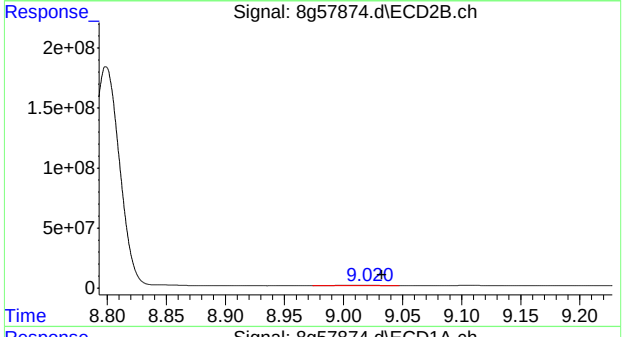
#15 4,4'-DDE

R.T.: 8.799 min
Delta R.T.: -0.009 min
Response: 2930064594
Conc: 15.83 PPB



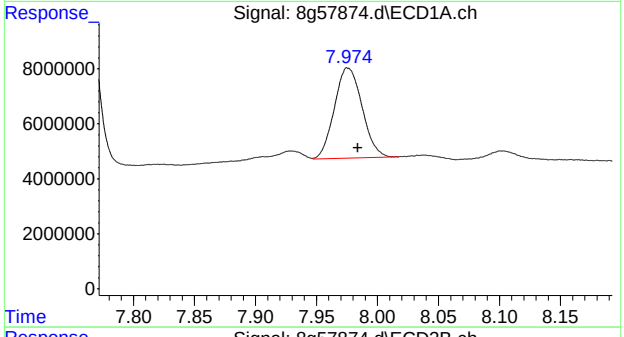
#16 Dieldrin

R.T.: 7.581 min
Delta R.T.: 0.017 min
Response: 4650028
Conc: 0.02 PPB m



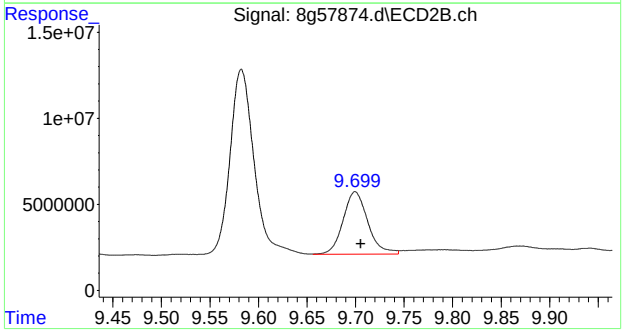
#16 Dieldrin

R.T.: 9.020 min
Delta R.T.: -0.012 min
Response: 8650942
Conc: 0.04 PPB m



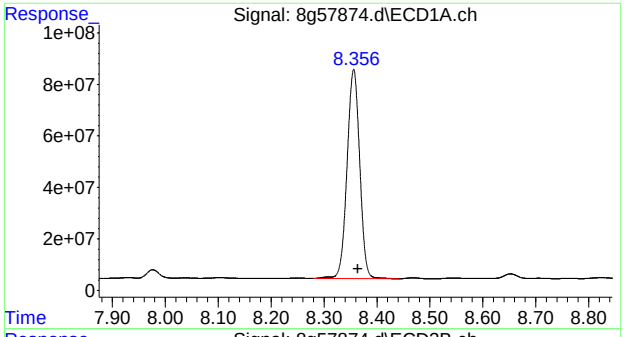
#18 4,4'-DDD

R.T.: 7.976 min
Delta R.T.: -0.008 min
Response: 51949030
Conc: 0.36 PPB



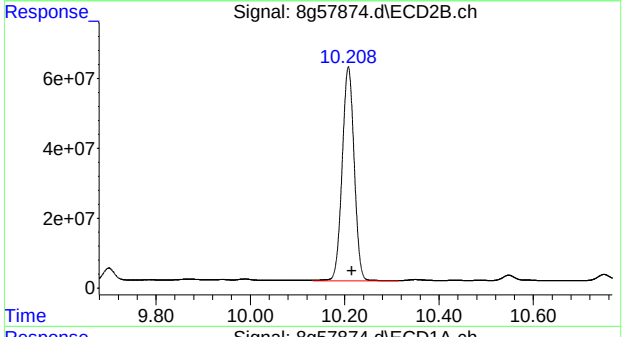
#18 4,4'-DDD

R.T.: 9.699 min
Delta R.T.: -0.006 min
Response: 64638604
Conc: 0.42 PPB m



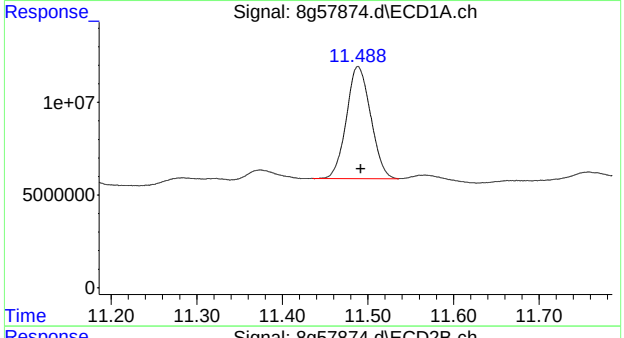
#20 4,4'-DDT

R.T.: 8.356 min
Delta R.T.: -0.007 min
Response: 1350082517
Conc: 8.29 PPB



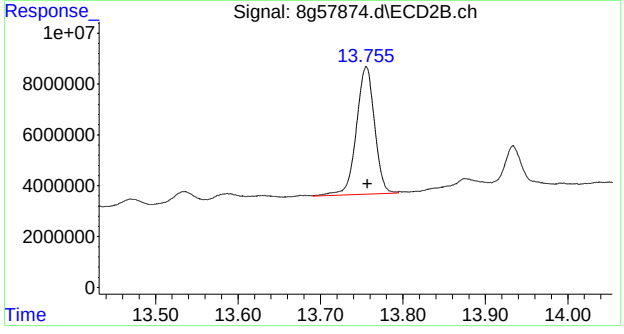
#20 4,4'-DDT

R.T.: 10.208 min
Delta R.T.: -0.007 min
Response: 1084681579
Conc: 9.78 PPB



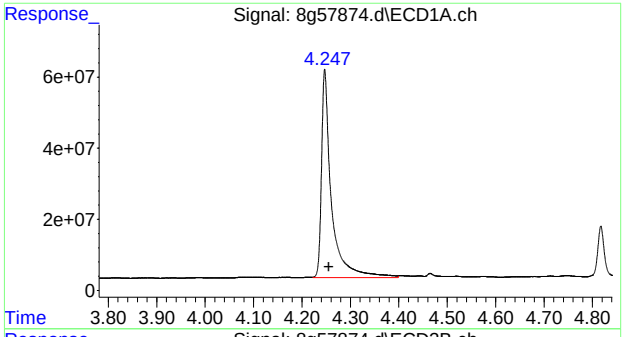
#26 Decachlorobiphenyl

R.T.: 11.488 min
Delta R.T.: -0.003 min
Response: 119235812
Conc: 0.64 PPB



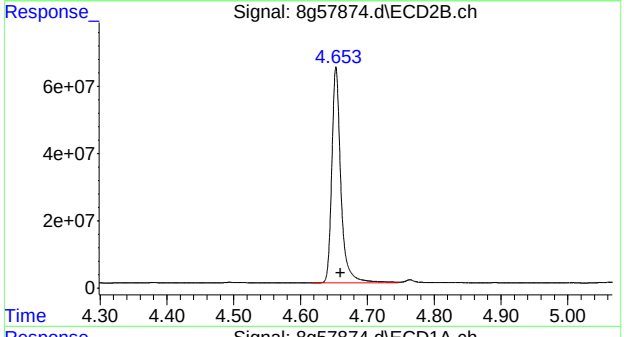
#26 Decachlorobiphenyl

R.T.: 13.755 min
Delta R.T.: -0.002 min
Response: 76878344
Conc: 0.91 PPB m



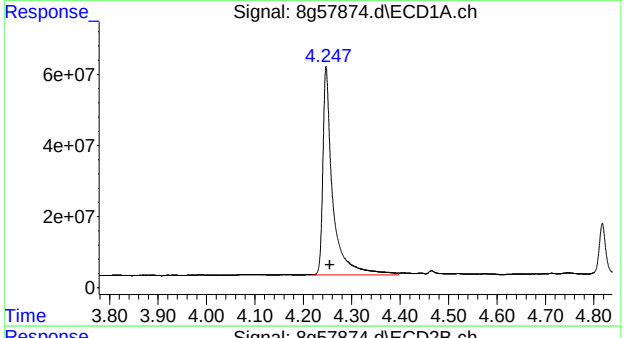
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.247 min
Delta R.T.: -0.008 min
Response: 828950104
Conc: 5.00 PPB m



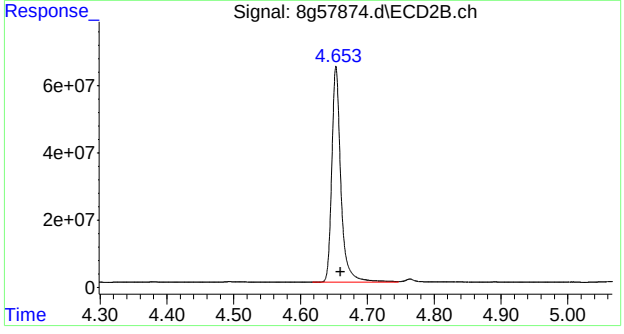
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.653 min
Delta R.T.: -0.007 min
Response: 607264893
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.247 min
Delta R.T.: -0.008 min
Response: 828878249
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.653 min
Delta R.T.: -0.007 min
Response: 607264893
Conc: 5.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco 07/04/24 04:25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\shahanit\G8G2531\
Data File : 8g57875.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Jul 2024 11:34 pm
Operator : mahalial
Sample : jd91339-9 m
Misc : op55792,g8g2531,5.0,,,10,20
ALS Vial : 108 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 07:07:32 2024
Quant Method : C:\msdchem\1\data\shahanit\G8G2531\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu Jul 04 05:58:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.247	4.653	803.5E6	573.1E6	5.000m	5.000
27)	I 1-bromo-2...	4.247	4.653	804.2E6	573.1E6	5.000m	5.000
33)	I 1-bromo-2...	4.247	4.653	804.4E6	573.1E6	5.000m	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	4.816	5.411	37353398	38582511	0.223	0.229
	Spiked Amount	40.000	Range 30 - 150	Recovery =		0.56%#	0.57%#
26)	SA Decachlor...	11.490	13.754	37409382	20480990	0.207	0.256m
	Spiked Amount	40.000		Recovery =		0.52%	0.64%
	Target Compounds						
15)	B 4,4'-DDE	7.231	8.798	961.3E6	826.4E6	5.058m	4.731m
18)	A 4,4'-DDD	7.977	9.701	20194297	24366940	0.145	0.168m
20)	MA 4,4'-DDT	8.355	10.207	288.5E6	240.3E6	1.829m	2.295m#
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

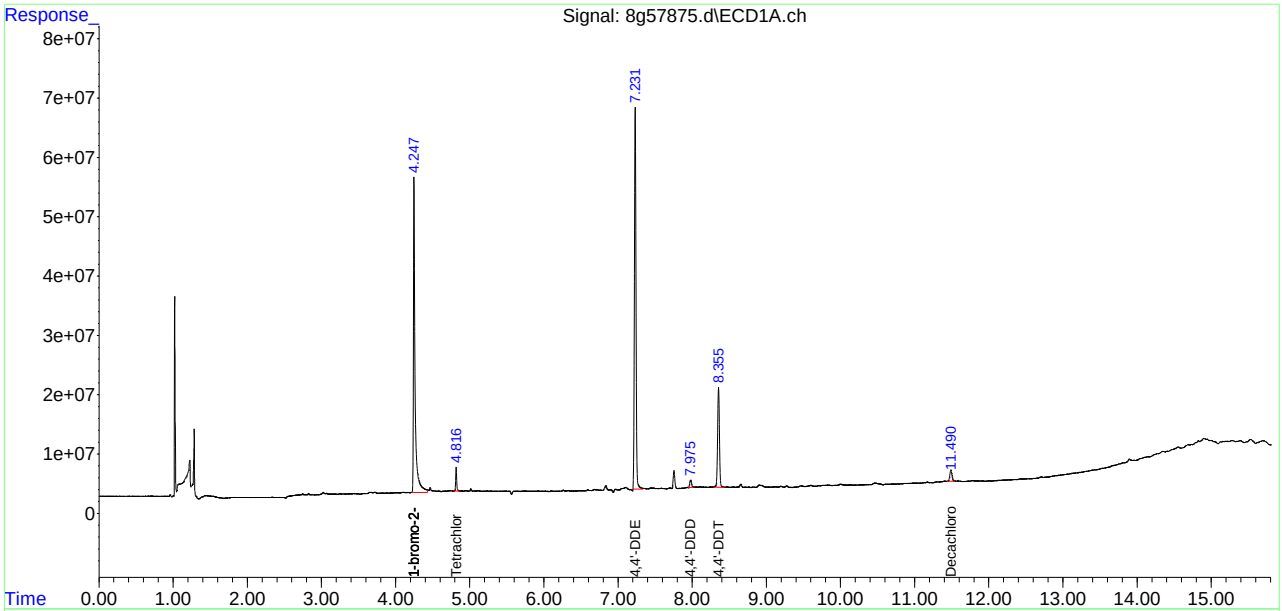
11.1.13 11

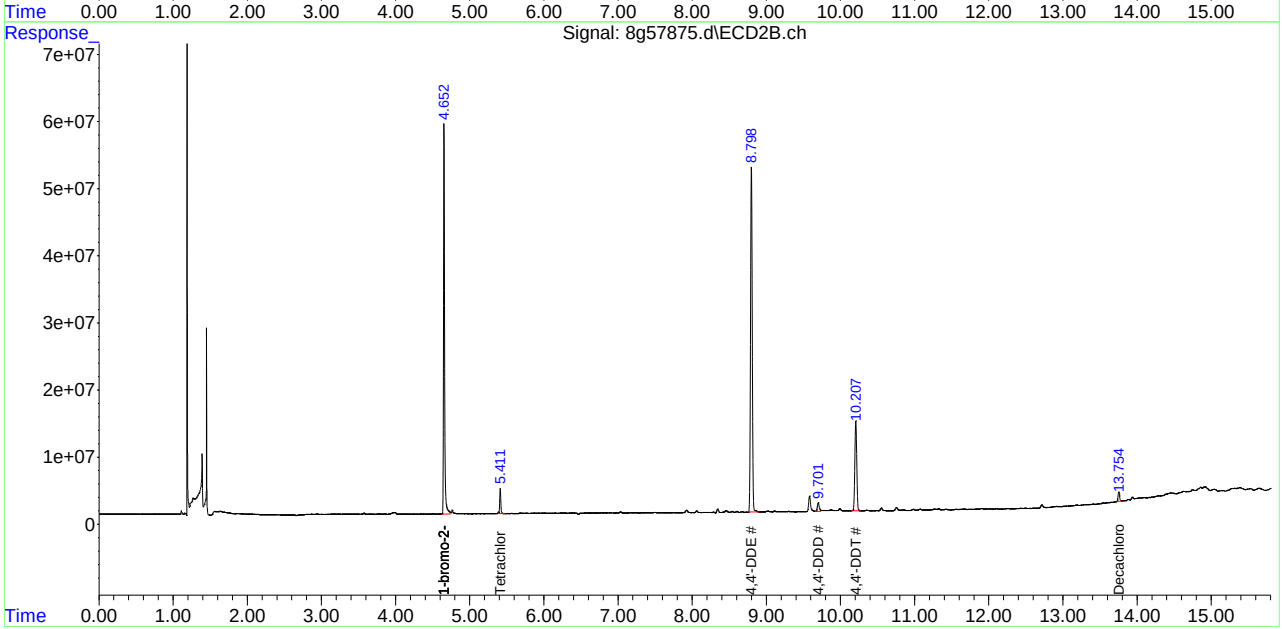
Quantitation Report (QT Reviewed)

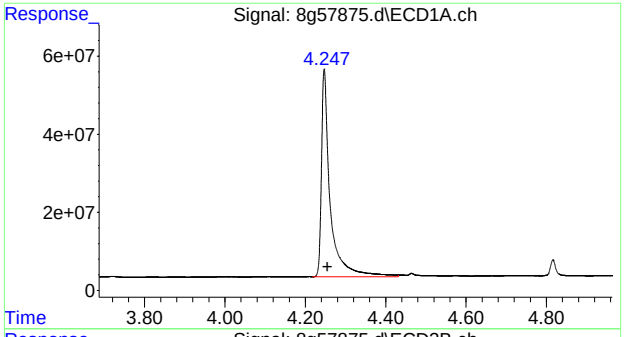
Data Path : C:\msdchem\1\data\shahanit\G8G2531\
Data File : 8g57875.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Jul 2024 11:34 pm
Operator : mahalial
Sample : jd91339-9 m
Misc : op55792,g8g2531,5.0,,,10,20
ALS Vial : 108 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 07:07:32 2024
Quant Method : C:\msdchem\1\data\shahanit\G8G2531\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Thu Jul 04 05:58:41 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

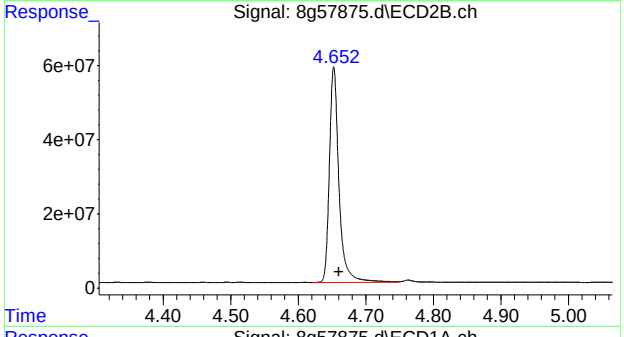






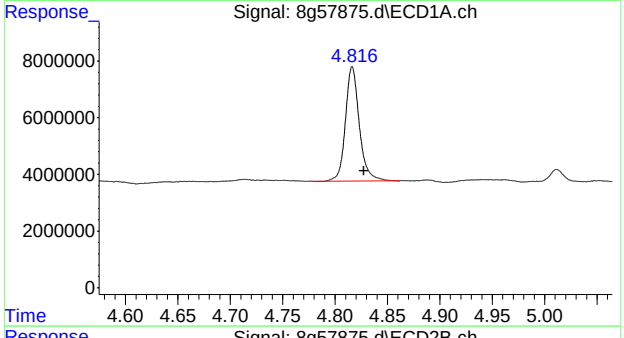
#1 1-bromo-2-nitrobenzene

R.T.: 4.247 min
Delta R.T.: -0.008 min
Response: 803508551
Conc: 5.00 PPB m



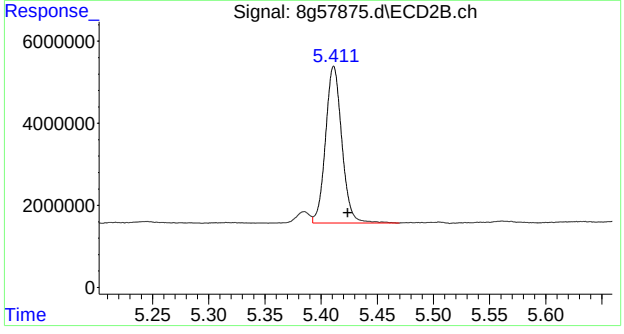
#1 1-bromo-2-nitrobenzene

R.T.: 4.653 min
Delta R.T.: -0.007 min
Response: 573143773
Conc: 5.00 PPB



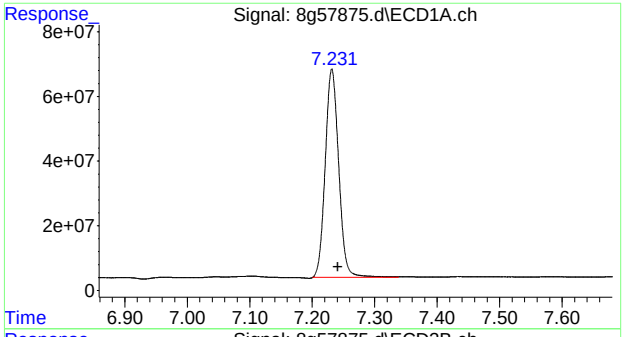
#2 Tetrachloro-m-xylene

R.T.: 4.816 min
Delta R.T.: -0.011 min
Response: 37353398
Conc: 0.22 PPB



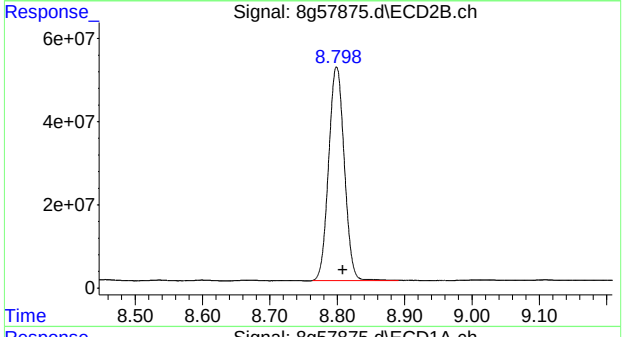
#2 Tetrachloro-m-xylene

R.T.: 5.411 min
Delta R.T.: -0.012 min
Response: 38582511
Conc: 0.23 PPB



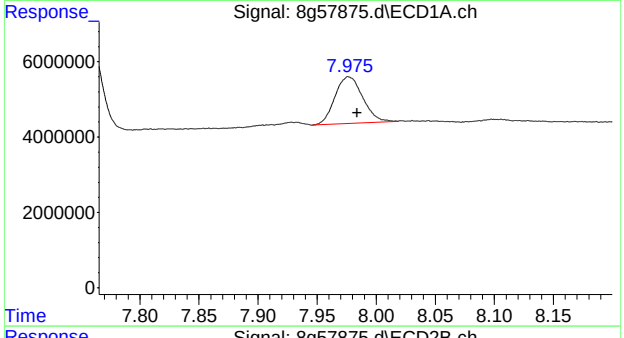
#15 4,4'-DDE

R.T.: 7.231 min
Delta R.T.: -0.010 min
Response: 961291079
Conc: 5.06 PPB m



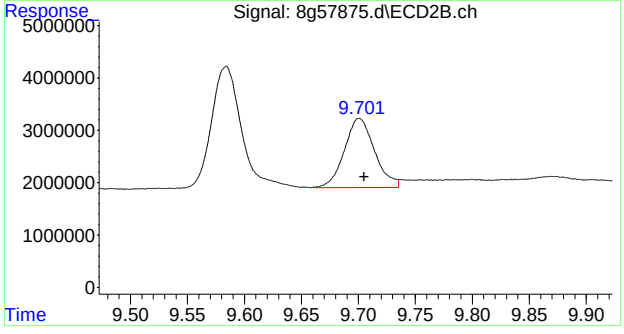
#15 4,4'-DDE

R.T.: 8.798 min
Delta R.T.: -0.010 min
Response: 826416028
Conc: 4.73 PPB m



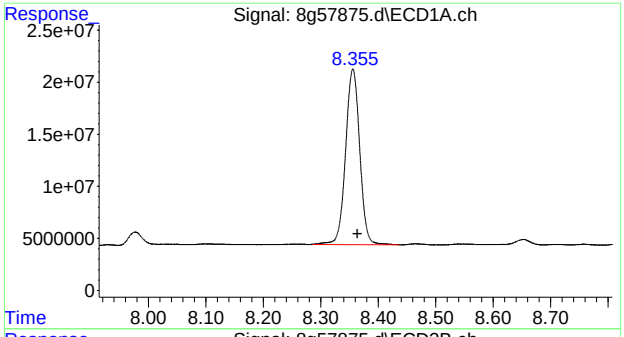
#18 4,4'-DDD

R.T.: 7.977 min
Delta R.T.: -0.007 min
Response: 20194297
Conc: 0.15 PPB



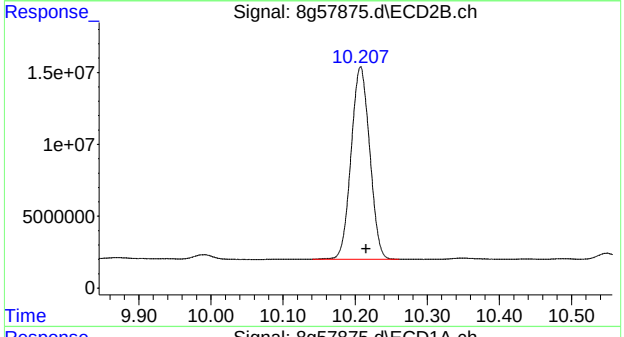
#18 4,4'-DDD

R.T.: 9.701 min
Delta R.T.: -0.004 min
Response: 24366940
Conc: 0.17 PPB m



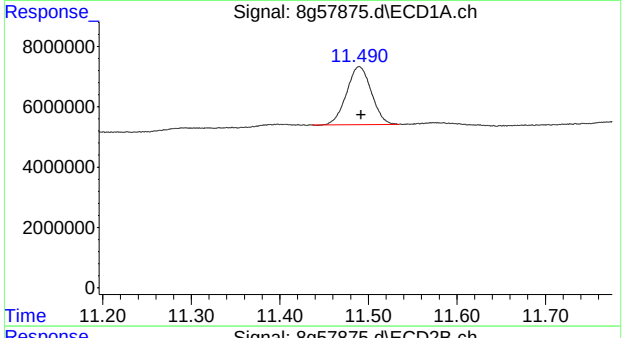
#20 4,4'-DDT

R.T.: 8.355 min
Delta R.T.: -0.008 min
Response: 288481134
Conc: 1.83 PPB m



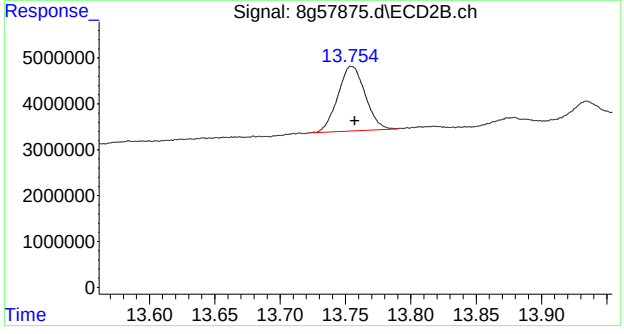
#20 4,4'-DDT

R.T.: 10.207 min
Delta R.T.: -0.007 min
Response: 240302332
Conc: 2.29 PPB m



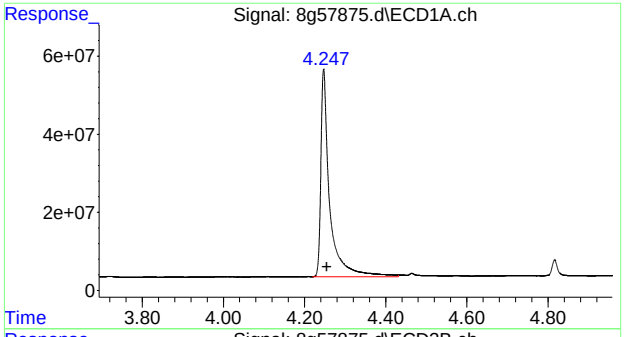
#26 Decachlorobiphenyl

R.T.: 11.490 min
Delta R.T.: -0.002 min
Response: 37409382
Conc: 0.21 PPB



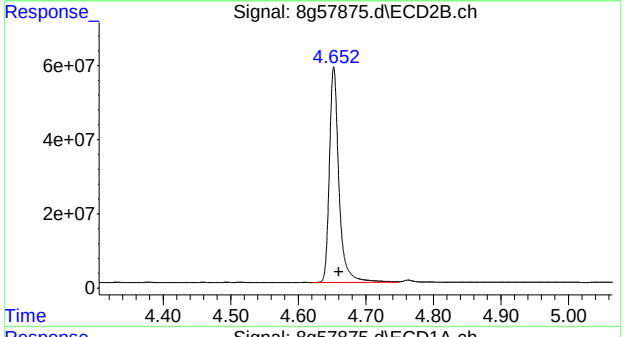
#26 Decachlorobiphenyl

R.T.: 13.754 min
Delta R.T.: -0.003 min
Response: 20480990
Conc: 0.26 PPB m



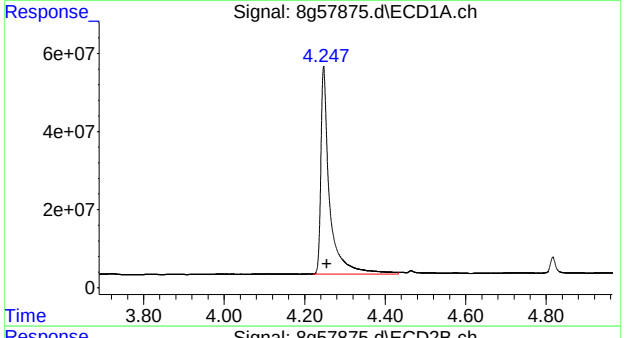
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.247 min
Delta R.T.: -0.008 min
Response: 804202168
Conc: 5.00 PPB m



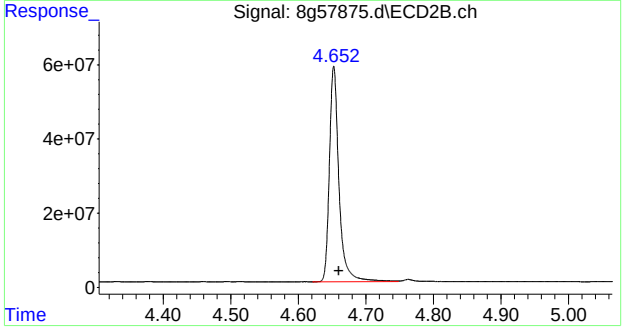
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.653 min
Delta R.T.: -0.007 min
Response: 573143773
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.247 min
Delta R.T.: -0.008 min
Response: 804429052
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.653 min
Delta R.T.: -0.007 min
Response: 573143773
Conc: 5.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco 07/03/24 07:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738733.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 10:58 pm
Operator : mahalial
Sample : jd91339-10 m
Misc : op55792,g4g4376,5.2,,,10,1
ALS Vial : 101 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:28:00 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	5.800	6.077	895.8E6	4177.2E6	5.000m	5.000m
27)	I 1-bromo-2...	5.800	6.077	895.5E6	4177.7E6	5.000m	5.000m
33)	I 1-bromo-2...	5.800	6.077	895.9E6	4177.7E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	6.496	6.994	524.1E6	3515.6E6	3.426	4.213
	Spiked Amount	40.000	Range 30 - 150	Recovery	=	8.57%#	10.53%#
26)	SA Decachlor...	13.977	15.601	558.7E6	1643.9E6	3.434m	3.562m
	Spiked Amount	40.000		Recovery	=	8.59%	8.90%
	Target Compounds						
15)	B 4,4'-DDE	9.383	10.849	31425837	162.9E6	0.146	0.164
18)	A 4,4'-DDD	10.229	11.805	6562686	41248749	0.039m	0.051m#
20)	MA 4,4'-DDT	10.646	12.344	12324854	79703834	0.075m	0.099m#
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

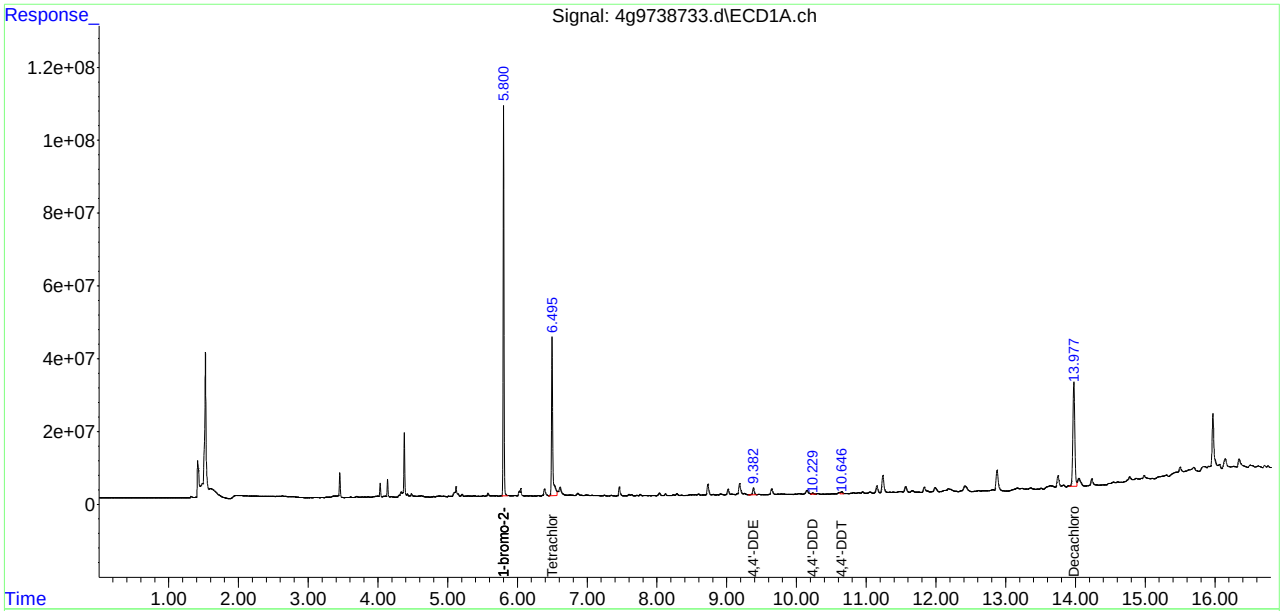
11.1.14 11

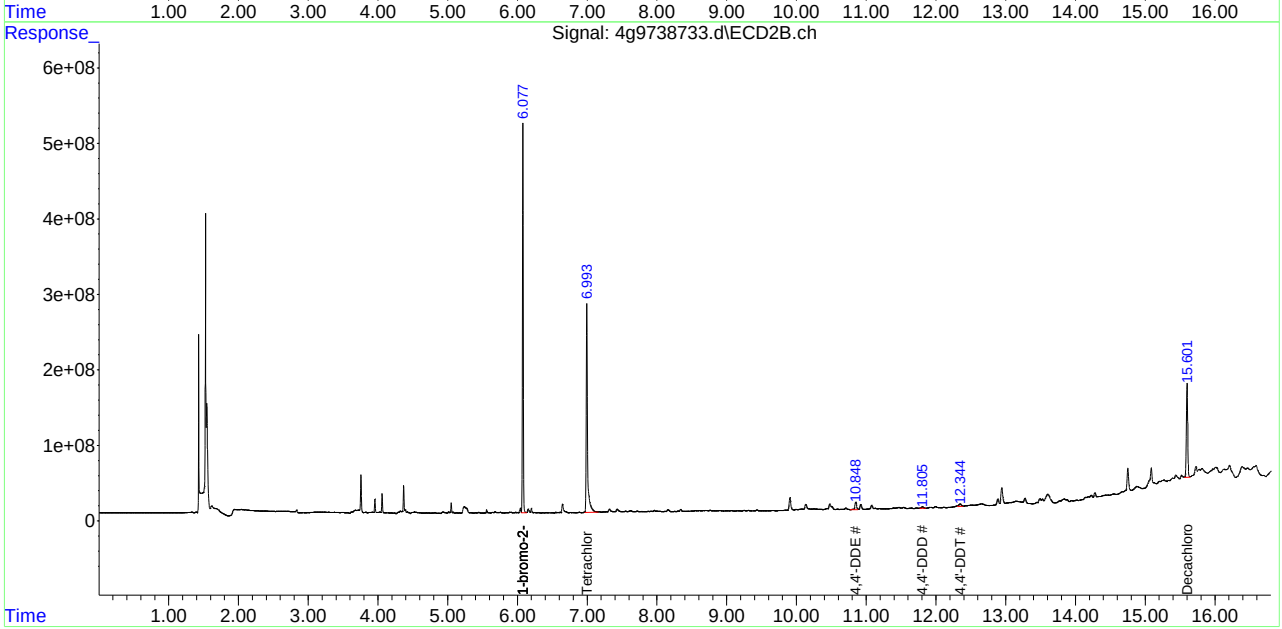
Quantitation Report (QT Reviewed)

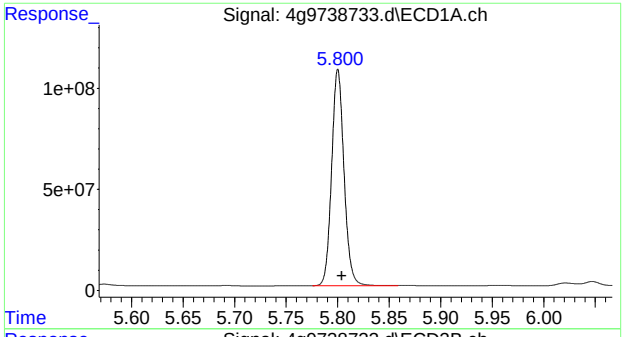
Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738733.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 10:58 pm
Operator : mahalial
Sample : jd91339-10 m
Misc : op55792,g4g4376,5.2,,,10,1
ALS Vial : 101 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:28:00 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

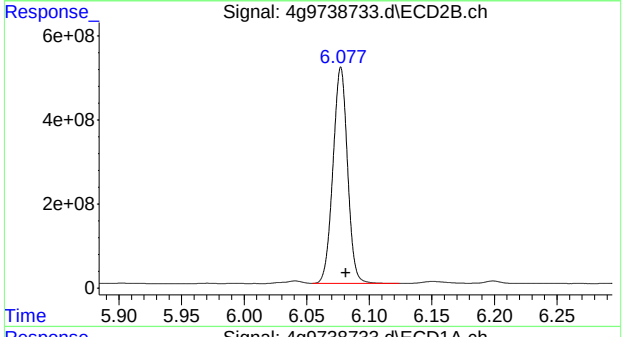






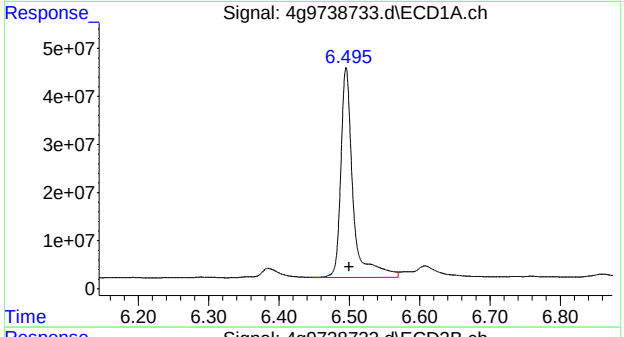
#1 1-bromo-2-nitrobenzene

R.T.: 5.800 min
Delta R.T.: -0.004 min
Response: 895838730
Conc: 5.00 PPB m



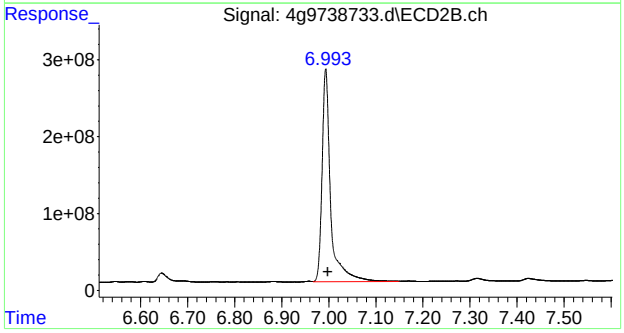
#1 1-bromo-2-nitrobenzene

R.T.: 6.077 min
Delta R.T.: -0.004 min
Response: 4177193304
Conc: 5.00 PPB m



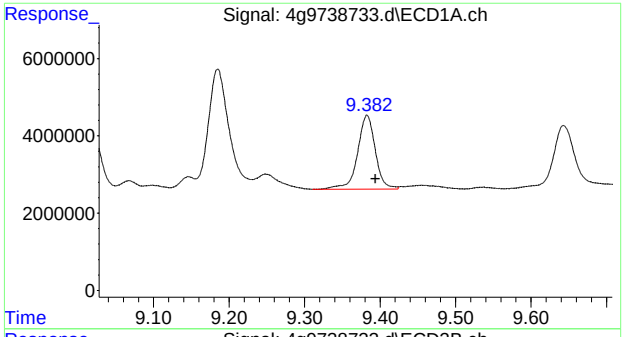
#2 Tetrachloro-m-xylene

R.T.: 6.496 min
Delta R.T.: -0.004 min
Response: 524052019
Conc: 3.43 PPB



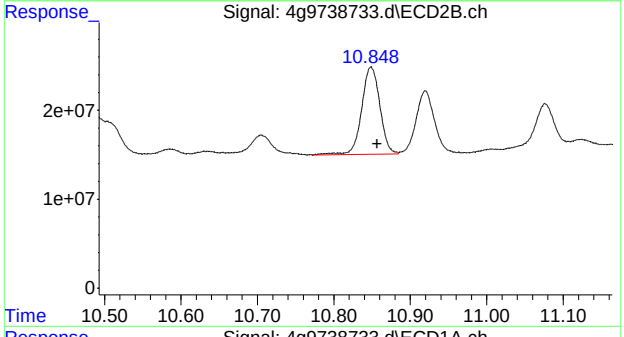
#2 Tetrachloro-m-xylene

R.T.: 6.994 min
Delta R.T.: -0.005 min
Response: 3515564982
Conc: 4.21 PPB



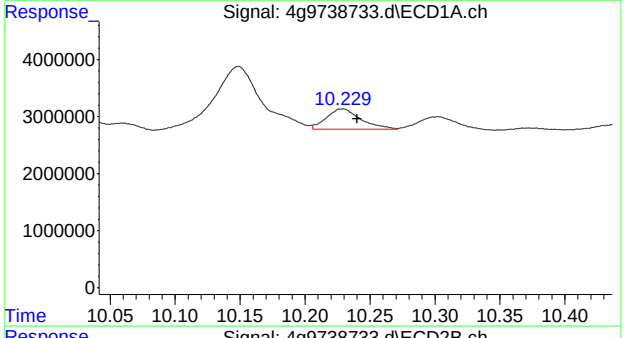
#15 4,4'-DDE

R.T.: 9.383 min
Delta R.T.: -0.011 min
Response: 31425837
Conc: 0.15 PPB



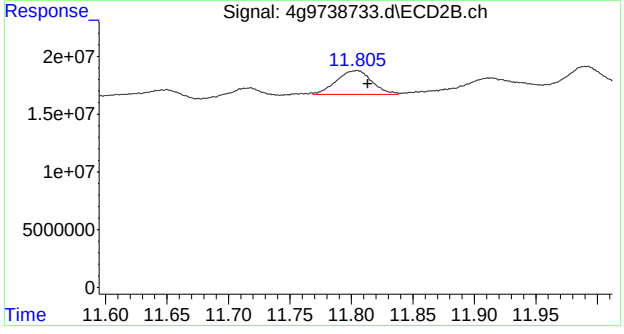
#15 4,4'-DDE

R.T.: 10.849 min
Delta R.T.: -0.008 min
Response: 162905617
Conc: 0.16 PPB



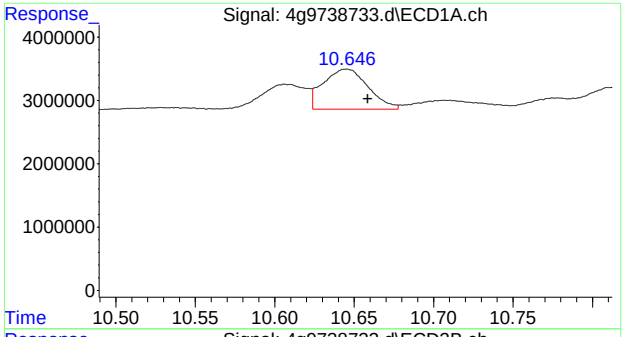
#18 4,4'-DDD

R.T.: 10.229 min
Delta R.T.: -0.011 min
Response: 6562686
Conc: 0.04 PPB m



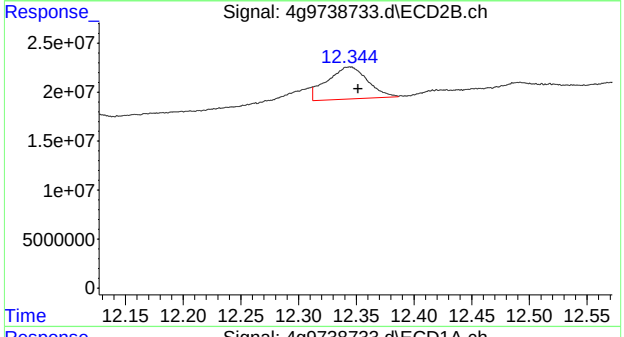
#18 4,4'-DDD

R.T.: 11.805 min
Delta R.T.: -0.008 min
Response: 41248749
Conc: 0.05 PPB m



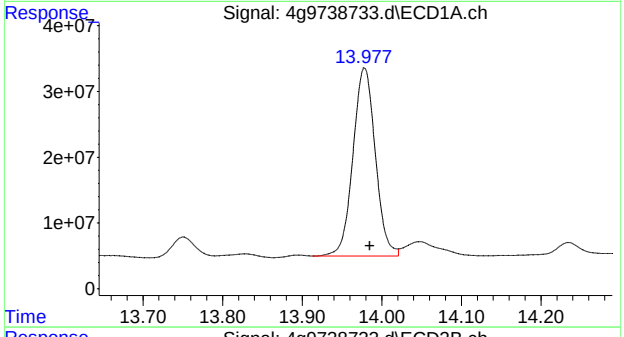
#20 4,4'-DDT

R.T.: 10.646 min
Delta R.T.: -0.013 min
Response: 12324854
Conc: 0.07 PPB m



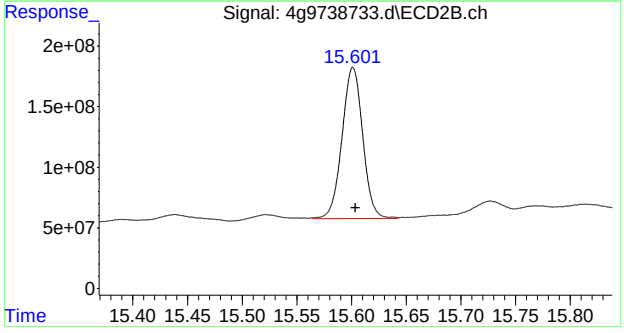
#20 4,4'-DDT

R.T.: 12.344 min
Delta R.T.: -0.008 min
Response: 79703834
Conc: 0.10 PPB m



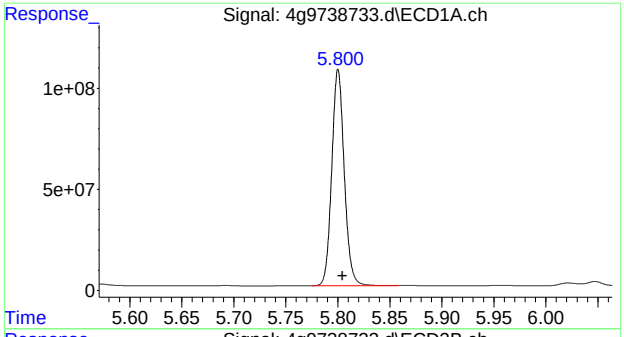
#26 Decachlorobiphenyl

R.T.: 13.977 min
Delta R.T.: -0.008 min
Response: 558738301
Conc: 3.43 PPB m



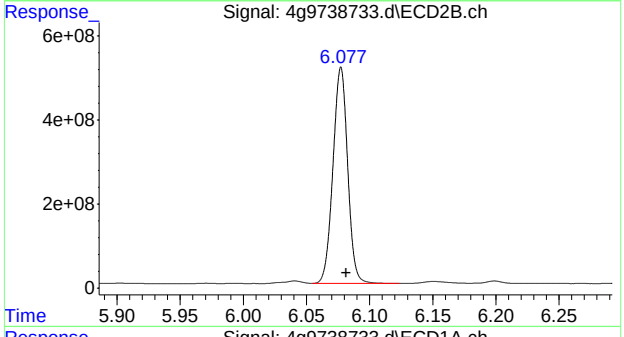
#26 Decachlorobiphenyl

R.T.: 15.601 min
Delta R.T.: -0.002 min
Response: 1643879366
Conc: 3.56 PPB m



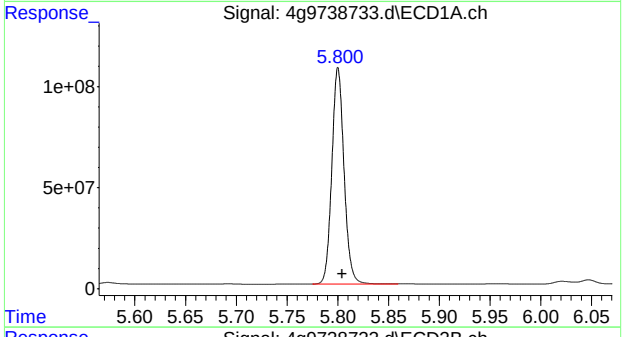
#27 1-bromo-2-nitrobenzeneA

R.T.: 5.800 min
Delta R.T.: -0.004 min
Response: 895451720
Conc: 5.00 PPB m



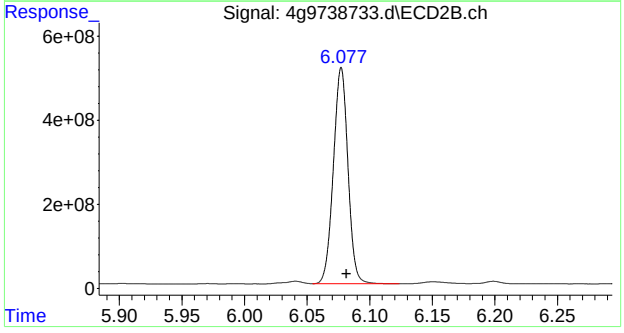
#27 1-bromo-2-nitrobenzeneA

R.T.: 6.077 min
Delta R.T.: -0.004 min
Response: 4177670195
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 5.800 min
Delta R.T.: -0.004 min
Response: 895921398
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 6.077 min
Delta R.T.: -0.004 min
Response: 4177713611
Conc: 5.00 PPB m

Manual Integrations APPROVED
(compounds with "m" flag)
Syra Marie Pacheco
07/03/24 07:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738734.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 11:20 pm
Operator : mahalial
Sample : jd91339-11 m
Misc : op55792,g4g4376,5.3,,,10,1
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:29:17 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	5.803	6.080	793.8E6	3858.8E6	5.000	5.000
27)	I 1-bromo-2...	5.803	6.080	793.8E6	3858.8E6	5.000	5.000
33)	I 1-bromo-2...	5.803	6.080	793.8E6	3858.8E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	6.499	6.997	516.1E6	3594.5E6	3.808	4.663
	Spiked Amount 40.000	Range 30 - 150		Recovery =		9.52%#	11.66%#
26)	SA Decachlor...	13.978	15.600	554.8E6	1757.6E6	3.848m	4.123m
	Spiked Amount 40.000			Recovery =		9.62%	10.31%
	Target Compounds						
15)	B 4,4'-DDE	9.383	10.849	18581182	82803001	0.097	0.091m
18)	A 4,4'-DDD	10.224f	11.802	16630535	54795829	0.110m	0.074m#
20)	MA 4,4'-DDT	10.644	12.345	18580320	105.8E6	0.127	0.142m
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

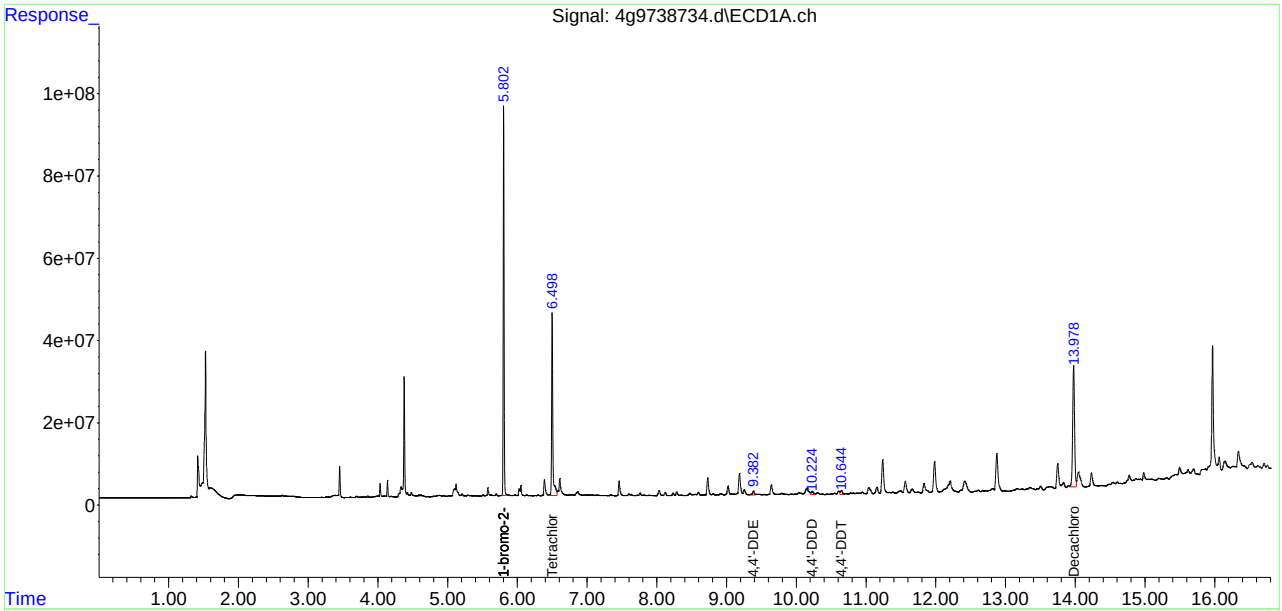
11.1.15 11

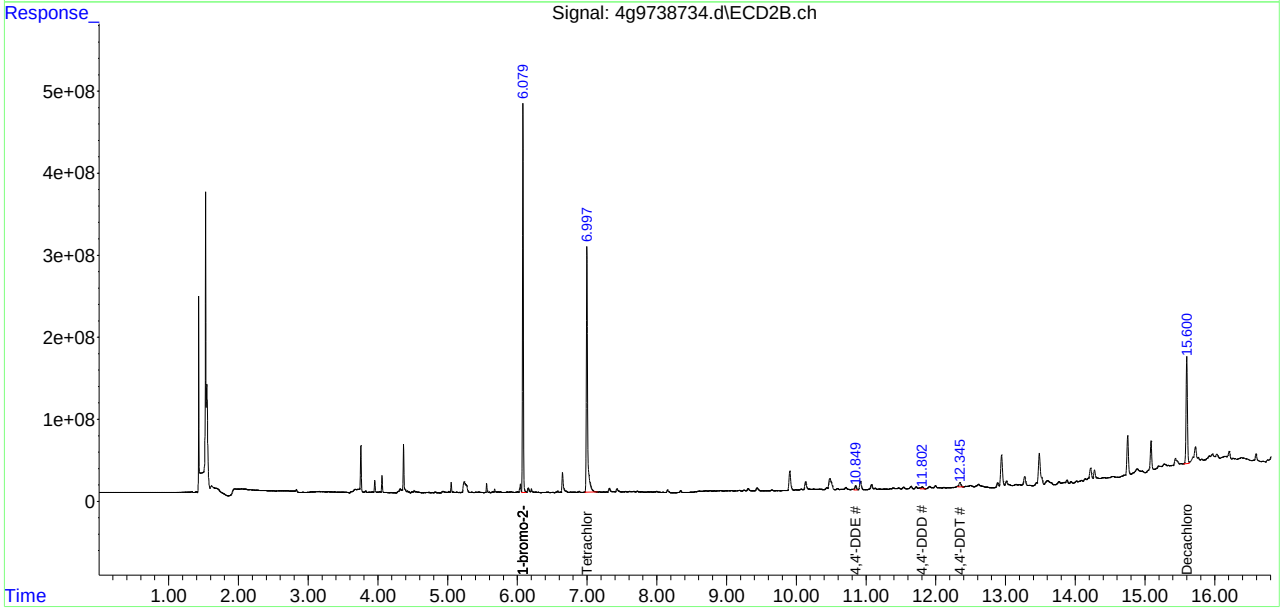
Quantitation Report (QT Reviewed)

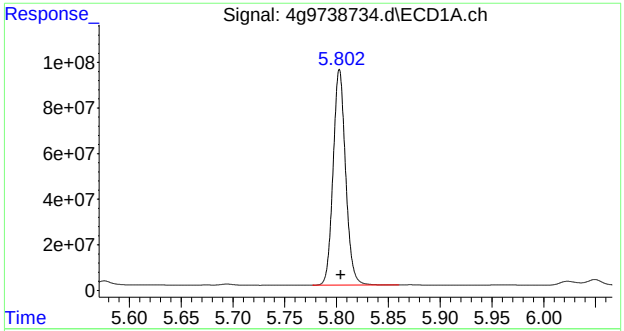
Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738734.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 11:20 pm
Operator : mahalial
Sample : jd91339-11 m
Misc : op55792,g4g4376,5.3,,,10,1
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 10:29:17 2024
Quant Method : C:\msdchem\1\data\shahanit\g4g4376\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:07:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

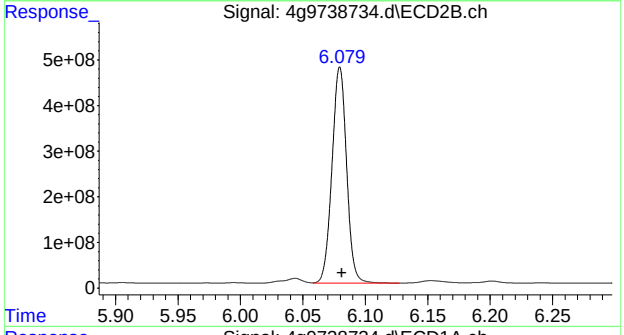






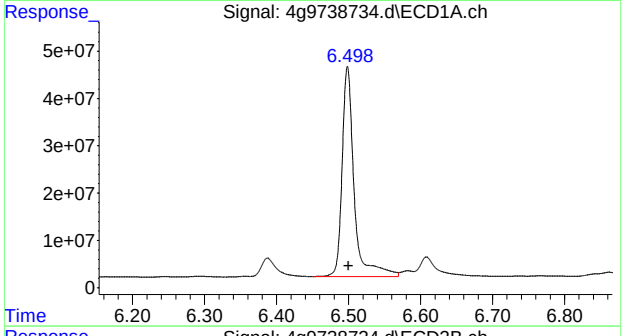
#1 1-bromo-2-nitrobenzene

R.T.: 5.803 min
Delta R.T.: -0.001 min
Response: 793804535
Conc: 5.00 PPB



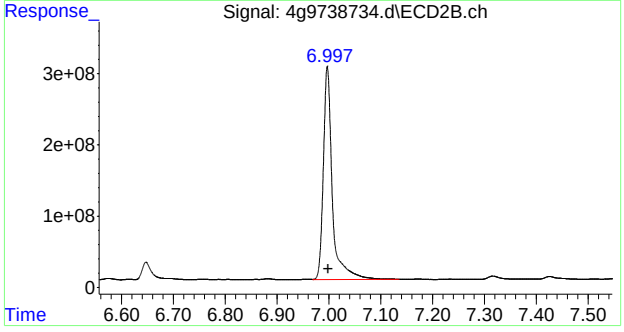
#1 1-bromo-2-nitrobenzene

R.T.: 6.080 min
Delta R.T.: -0.001 min
Response: 3858823530
Conc: 5.00 PPB



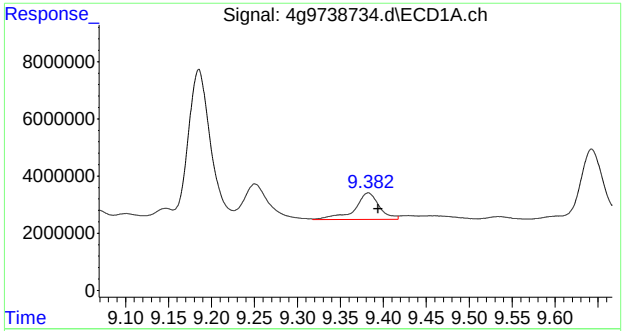
#2 Tetrachloro-m-xylene

R.T.: 6.499 min
Delta R.T.: 0.000 min
Response: 516136835
Conc: 3.81 PPB



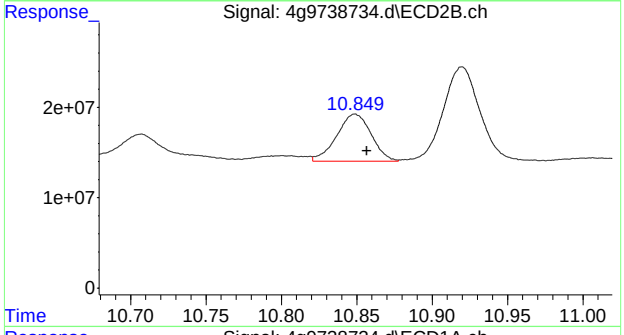
#2 Tetrachloro-m-xylene

R.T.: 6.997 min
Delta R.T.: -0.001 min
Response: 3594450819
Conc: 4.66 PPB



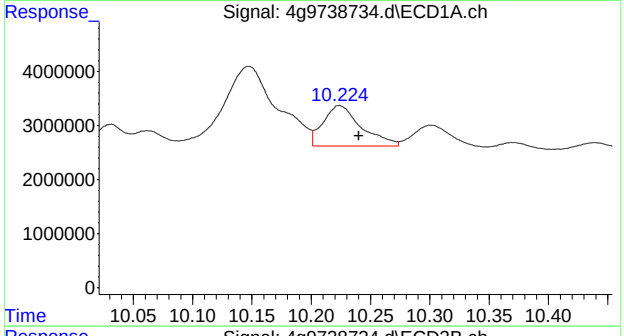
#15 4,4'-DDE

R.T.: 9.383 min
Delta R.T.: -0.011 min
Response: 18581182
Conc: 0.10 PPB



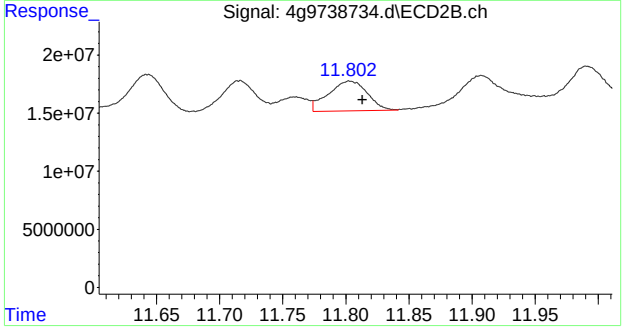
#15 4,4'-DDE

R.T.: 10.849 min
Delta R.T.: -0.007 min
Response: 82803001
Conc: 0.09 PPB m



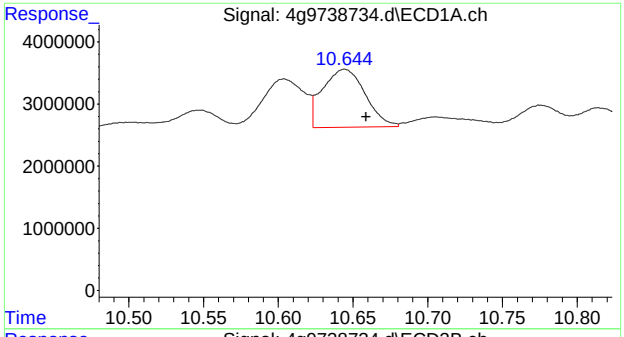
#18 4,4'-DDD

R.T.: 10.224 min
Delta R.T.: -0.016 min
Response: 16630535
Conc: 0.11 PPB m



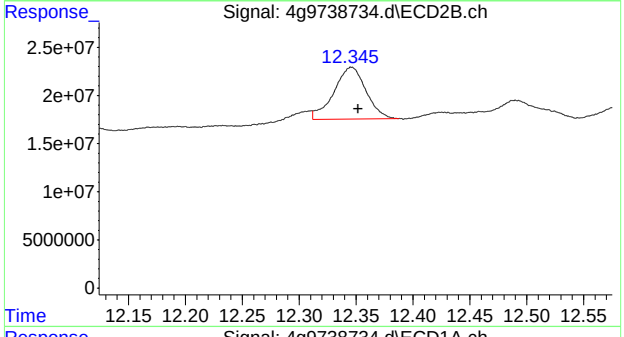
#18 4,4'-DDD

R.T.: 11.802 min
Delta R.T.: -0.011 min
Response: 54795829
Conc: 0.07 PPB m



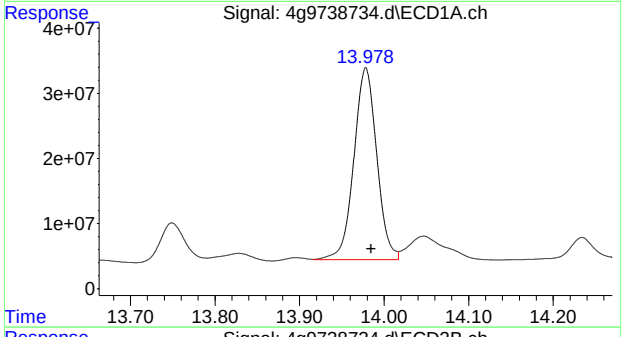
#20 4,4'-DDT

R.T.: 10.644 min
Delta R.T.: -0.014 min
Response: 18580320
Conc: 0.13 PPB



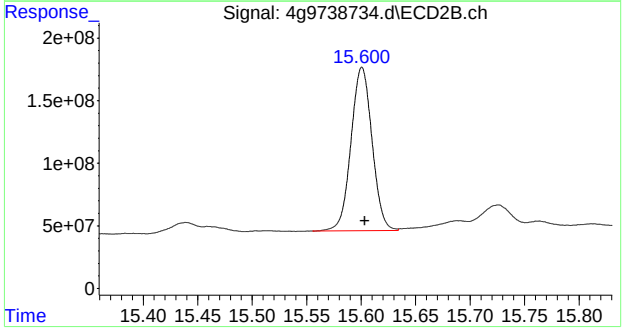
#20 4,4'-DDT

R.T.: 12.345 min
Delta R.T.: -0.007 min
Response: 105798463
Conc: 0.14 PPB m



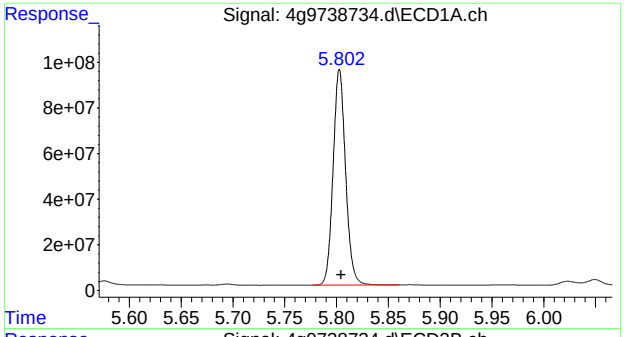
#26 Decachlorobiphenyl

R.T.: 13.978 min
Delta R.T.: -0.007 min
Response: 554834134
Conc: 3.85 PPB m



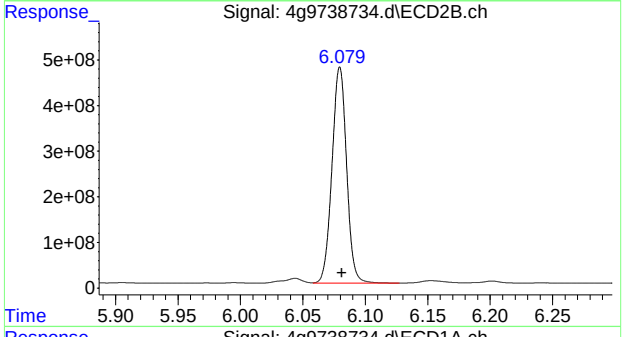
#26 Decachlorobiphenyl

R.T.: 15.600 min
Delta R.T.: -0.003 min
Response: 1757589812
Conc: 4.12 PPB m



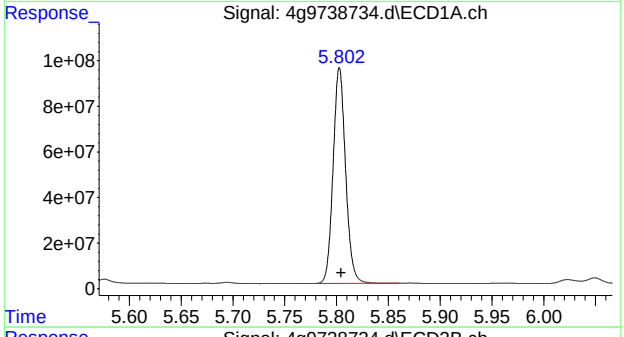
#27 1-bromo-2-nitrobenzeneA

R.T.: 5.803 min
Delta R.T.: -0.001 min
Response: 793804535
Conc: 5.00 PPB



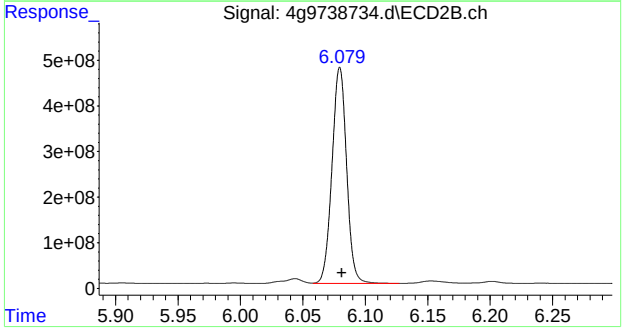
#27 1-bromo-2-nitrobenzeneA

R.T.: 6.080 min
Delta R.T.: -0.001 min
Response: 3858823530
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 5.803 min
Delta R.T.: -0.001 min
Response: 793804535
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 6.080 min
Delta R.T.: -0.001 min
Response: 3858823530
Conc: 5.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
07/03/24 09:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\g5g3662\
Data File : 5G138928.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 5:59 pm
Operator : tilakp
Sample : jd91339-13 m
Misc : op55825,G5G3662,5.4,,,10,1
ALS Vial : 85 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 06:57:50 2024
Quant Method : C:\msdchem\1\data\nazaryne\g5g3662\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:16:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.616	4.914	1425.8E6	1568.9E6	5.000m	5.000m
27)	I 1-bromo-2...	4.616	4.914	1415.2E6	1569.3E6	5.000m	5.000m
33)	I 1-bromo-2...	4.616	4.914	1419.4E6	1570.0E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.245	5.732	425.5E6	1653.3E6	2.768m	3.949m#
	Spiked Amount 40.000	Range 30 - 150		Recovery =		6.92%#	9.87%#
26)	SA Decachlor...	12.439	14.180	2397.2E6	1127.4E6	5.807	3.614 #
	Spiked Amount 40.000			Recovery =		14.52%	9.04%
	Target Compounds						
11)	B Heptachlo...	7.495	8.544	66967007	38747979	0.149m	0.075m#
13)	B alpha-Chl...	7.803f	9.042	234.3E6	65806611	0.515	0.125m#
15)	B 4,4'-DDE	7.937	9.310	374.3E6	155.5E6	0.917m	0.323m#
16)	MA Dieldrin	8.309	9.545	63352063	70524459	0.132m	0.140m
20)	MA 4,4'-DDT	9.156	10.748	291.0E6	259.7E6	0.898m	0.810m
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

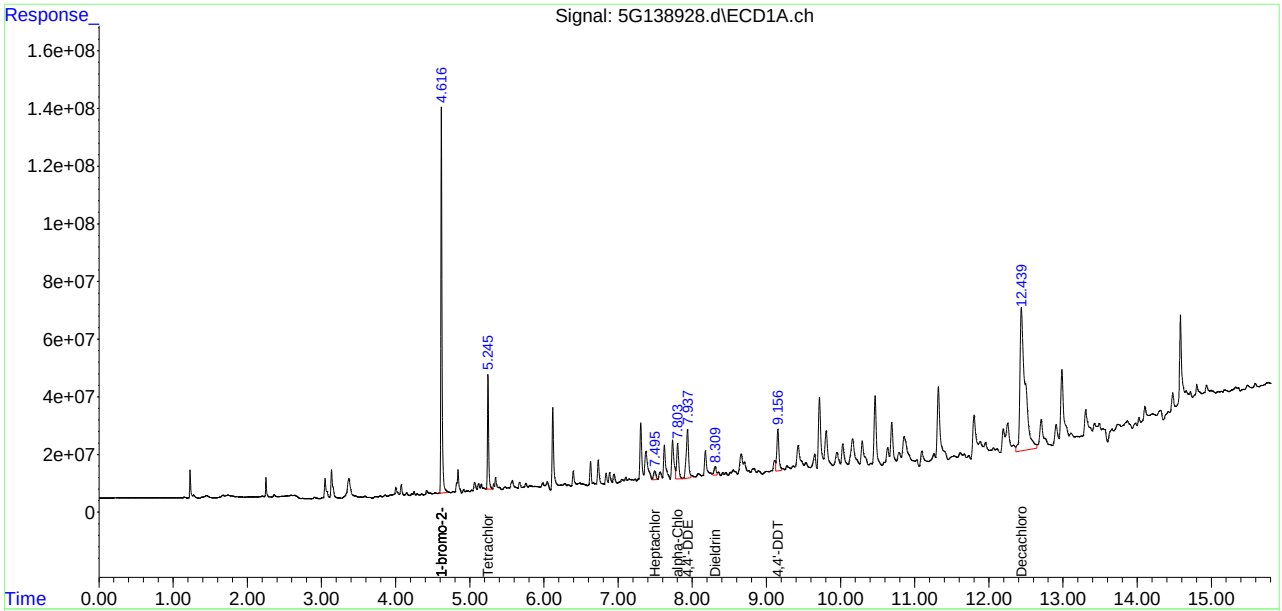
11.1.16 11

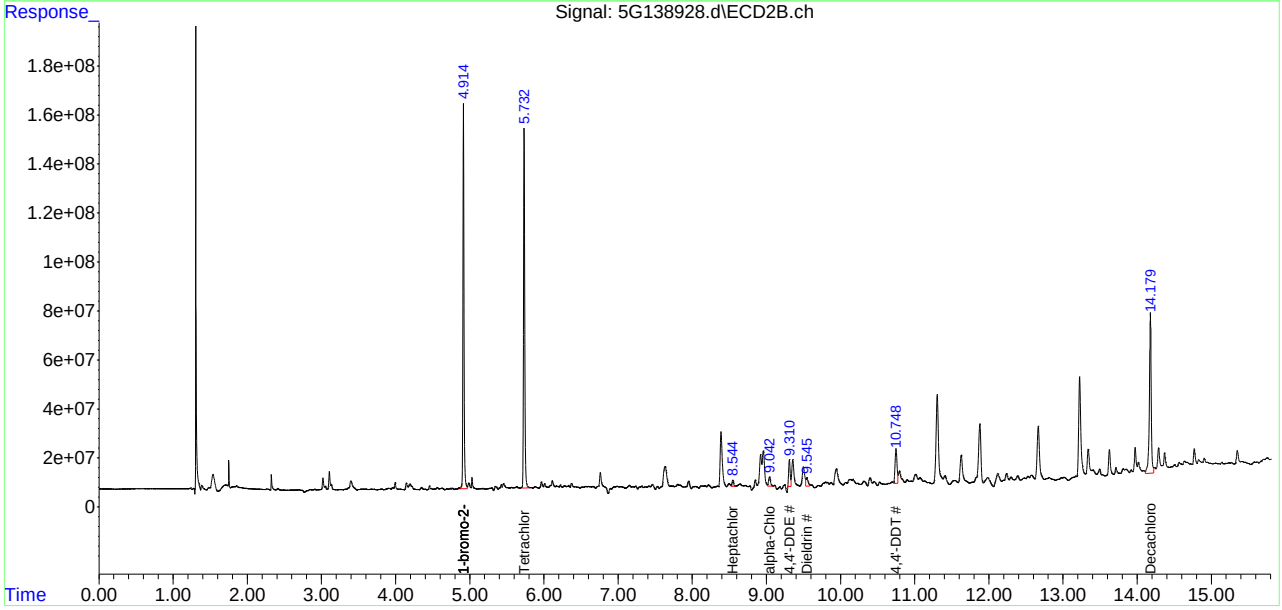
Quantitation Report (QT Reviewed)

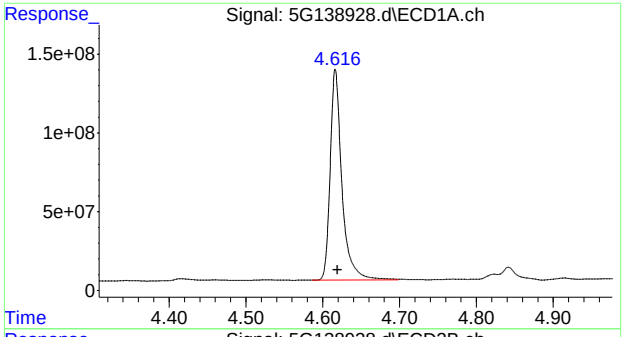
Data Path : C:\msdchem\1\data\nazaryne\g5g3662\
Data File : 5G138928.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 5:59 pm
Operator : tilakp
Sample : jd91339-13 m
Misc : op55825,G5G3662,5.4,,,10,1
ALS Vial : 85 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 06:57:50 2024
Quant Method : C:\msdchem\1\data\nazaryne\g5g3662\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:16:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

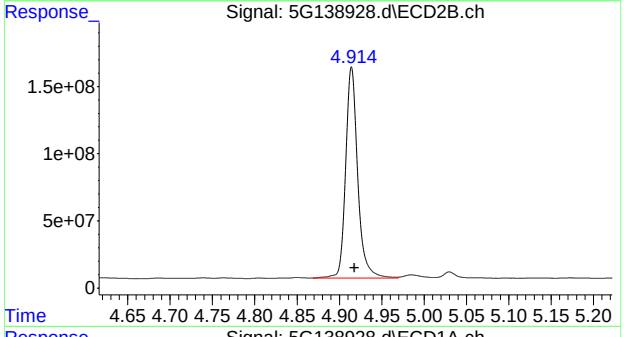






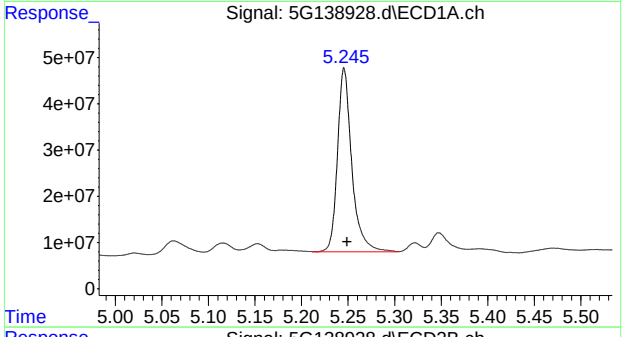
#1 1-bromo-2-nitrobenzene

R.T.: 4.616 min
Delta R.T.: -0.003 min
Response: 1425825662
Conc: 5.00 PPB m



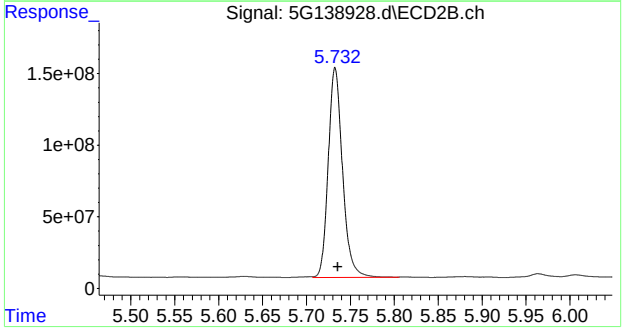
#1 1-bromo-2-nitrobenzene

R.T.: 4.914 min
Delta R.T.: -0.004 min
Response: 1568927762
Conc: 5.00 PPB m



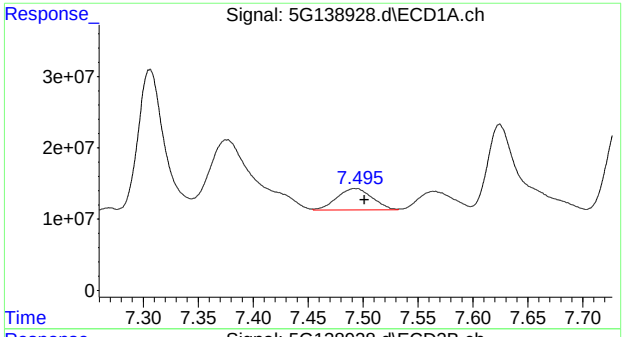
#2 Tetrachloro-m-xylene

R.T.: 5.245 min
Delta R.T.: -0.004 min
Response: 425478372
Conc: 2.77 PPB m



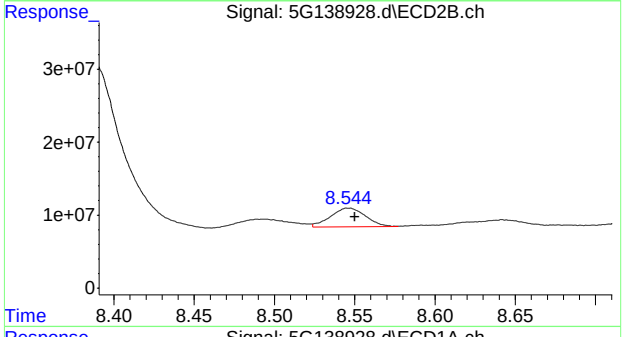
#2 Tetrachloro-m-xylene

R.T.: 5.732 min
Delta R.T.: -0.004 min
Response: 1653320815
Conc: 3.95 PPB m



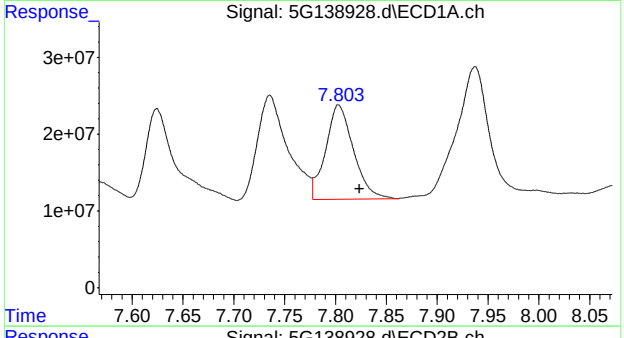
#11 Heptachlor Epoxide

R.T.: 7.495 min
Delta R.T.: -0.006 min
Response: 66967007
Conc: 0.15 PPB m



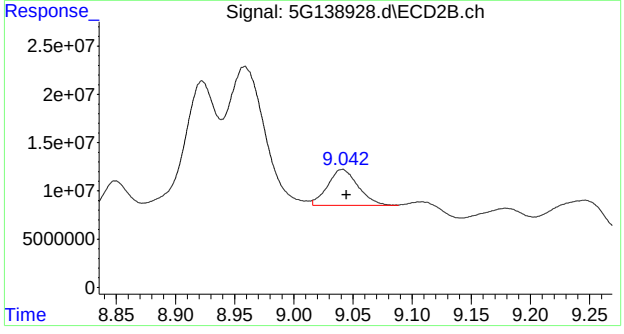
#11 Heptachlor Epoxide

R.T.: 8.544 min
Delta R.T.: -0.006 min
Response: 38747979
Conc: 0.08 PPB m



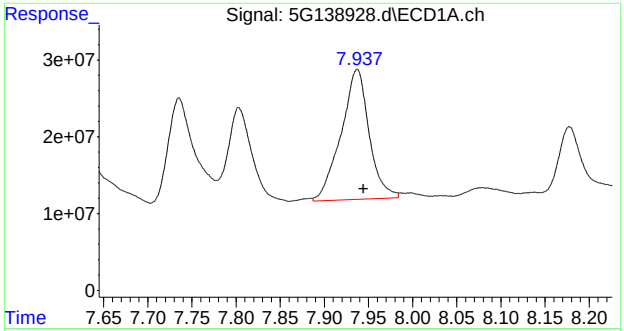
#13 alpha-Chlordane

R.T.: 7.803 min
Delta R.T.: -0.021 min
Response: 234278906
Conc: 0.51 PPB



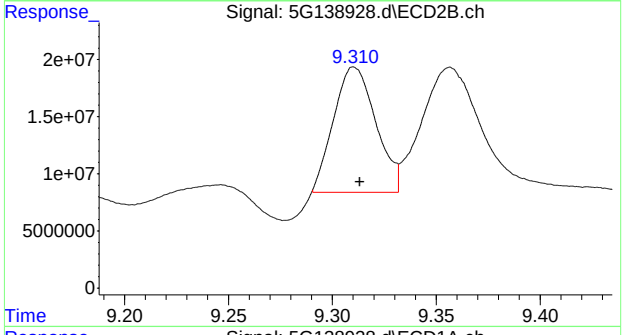
#13 alpha-Chlordane

R.T.: 9.042 min
Delta R.T.: -0.003 min
Response: 65806611
Conc: 0.12 PPB m



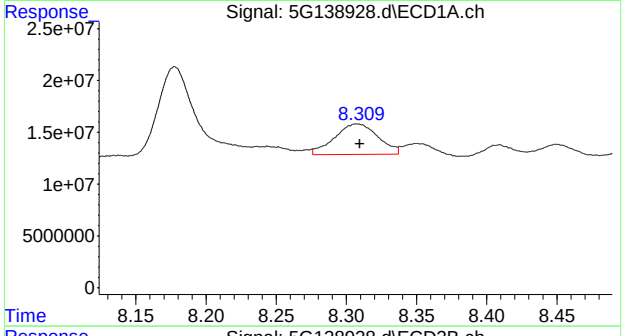
#15 4,4'-DDE

R.T.: 7.937 min
Delta R.T.: -0.008 min
Response: 374286709
Conc: 0.92 PPB m



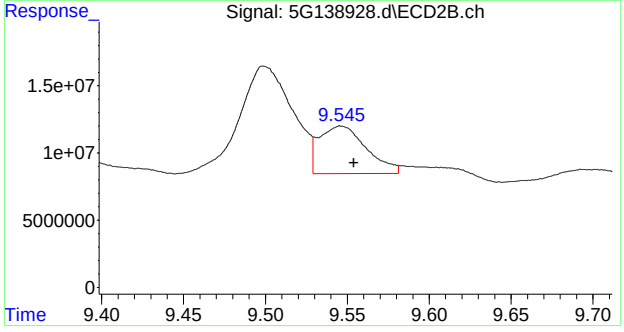
#15 4,4'-DDE

R.T.: 9.310 min
Delta R.T.: -0.003 min
Response: 155490125
Conc: 0.32 PPB m



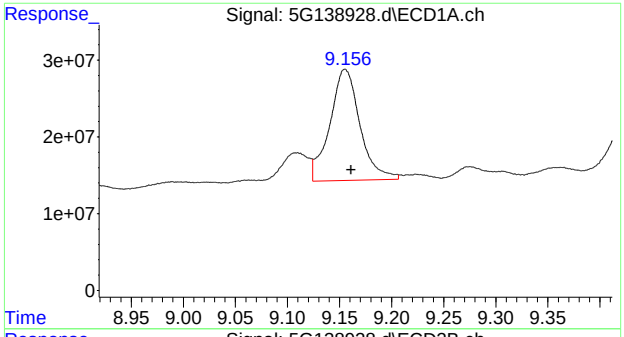
#16 Dieldrin

R.T.: 8.309 min
Delta R.T.: 0.000 min
Response: 63352063
Conc: 0.13 PPB m



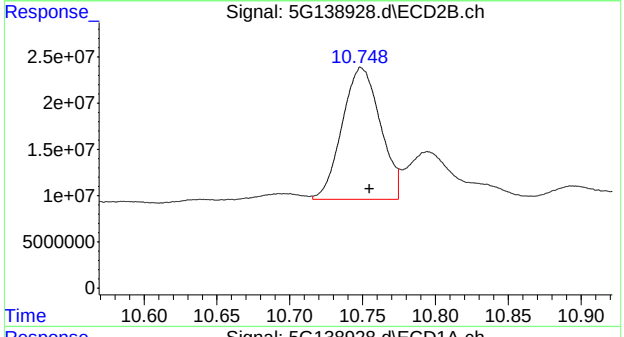
#16 Dieldrin

R.T.: 9.545 min
Delta R.T.: -0.009 min
Response: 70524459
Conc: 0.14 PPB m



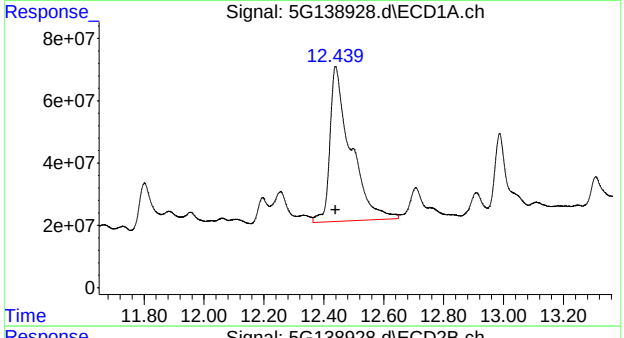
#20 4,4'-DDT

R.T.: 9.156 min
Delta R.T.: -0.005 min
Response: 291006406
Conc: 0.90 PPB m



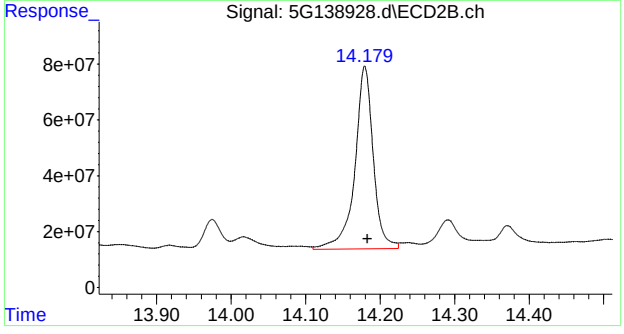
#20 4,4'-DDT

R.T.: 10.748 min
Delta R.T.: -0.007 min
Response: 259688508
Conc: 0.81 PPB m



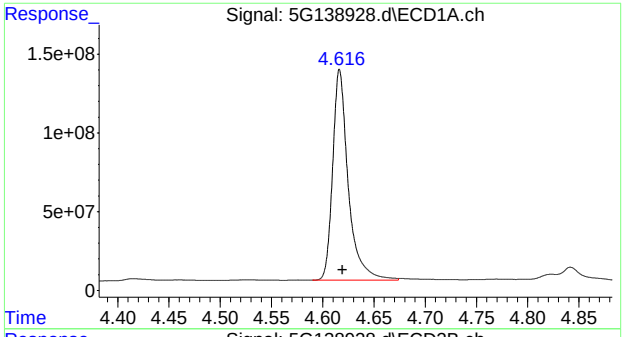
#26 Decachlorobiphenyl

R.T.: 12.439 min
Delta R.T.: 0.001 min
Response: 2397246727
Conc: 5.81 PPB



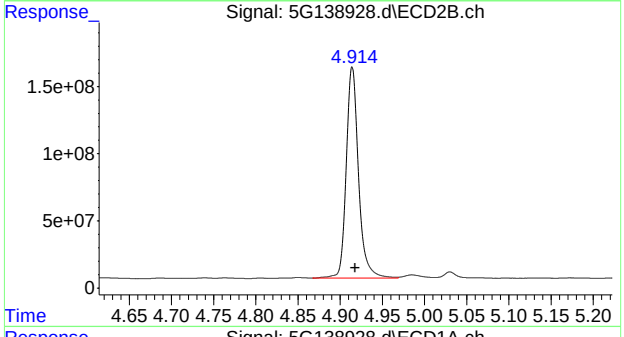
#26 Decachlorobiphenyl

R.T.: 14.180 min
Delta R.T.: -0.003 min
Response: 1127431984
Conc: 3.61 PPB



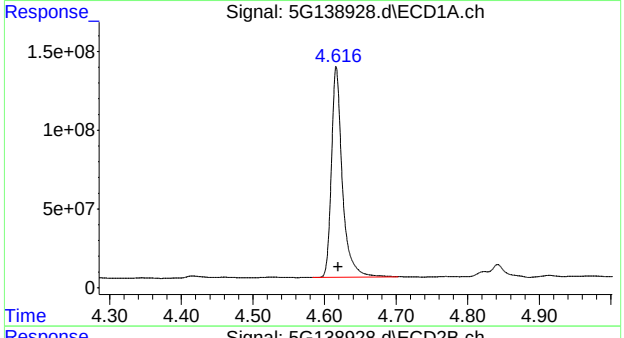
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.616 min
Delta R.T.: -0.003 min
Response: 1415171021
Conc: 5.00 PPB m



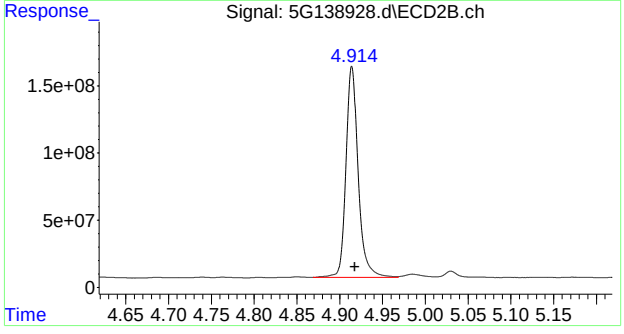
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.914 min
Delta R.T.: -0.004 min
Response: 1569307601
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.616 min
Delta R.T.: -0.003 min
Response: 1419437804
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.914 min
Delta R.T.: -0.004 min
Response: 1570018834
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
07/03/24 09:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\g5g3662\
Data File : 5G138929.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 6:19 pm
Operator : tilakp
Sample : jd91339-14 m
Misc : op55825,G5G3662,5.1,,,10,1
ALS Vial : 86 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 06:07:05 2024
Quant Method : C:\msdchem\1\data\nazaryne\g5g3662\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:16:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.617	4.915	1290.3E6	1416.6E6	5.000m	5.000m
27)	I 1-bromo-2...	4.617	4.915	1289.6E6	1415.5E6	5.000m	5.000m
33)	I 1-bromo-2...	4.617	4.915	1293.2E6	1415.5E6	5.000m	5.000m
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.246	5.733	432.9E6	1683.0E6	3.112m	4.453m#
	Spiked Amount	40.000	Range 30 - 150	Recovery	=	7.78%#	11.13%#
26)	SA Decachlor...	12.438	14.181	1311.3E6	957.8E6	3.510m	3.400m
	Spiked Amount	40.000		Recovery	=	8.77%	8.50%
	Target Compounds						
13)	B alpha-Chl...	7.803f	9.039	41775469	16720855	0.101m	0.035m#
15)	B 4,4'-DDE	7.931	9.312	107.9E6	24021997	0.292m	0.055m#
20)	MA 4,4'-DDT	9.153	10.748	59933886	65867756	0.204m	0.228m
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

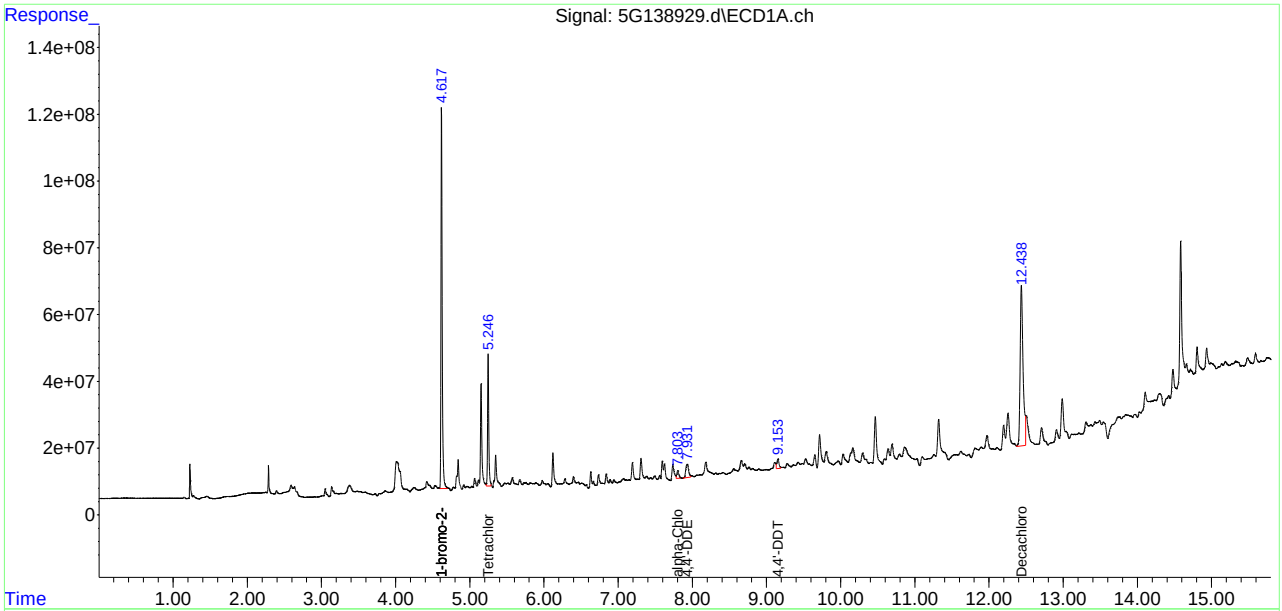
11.1.17 11

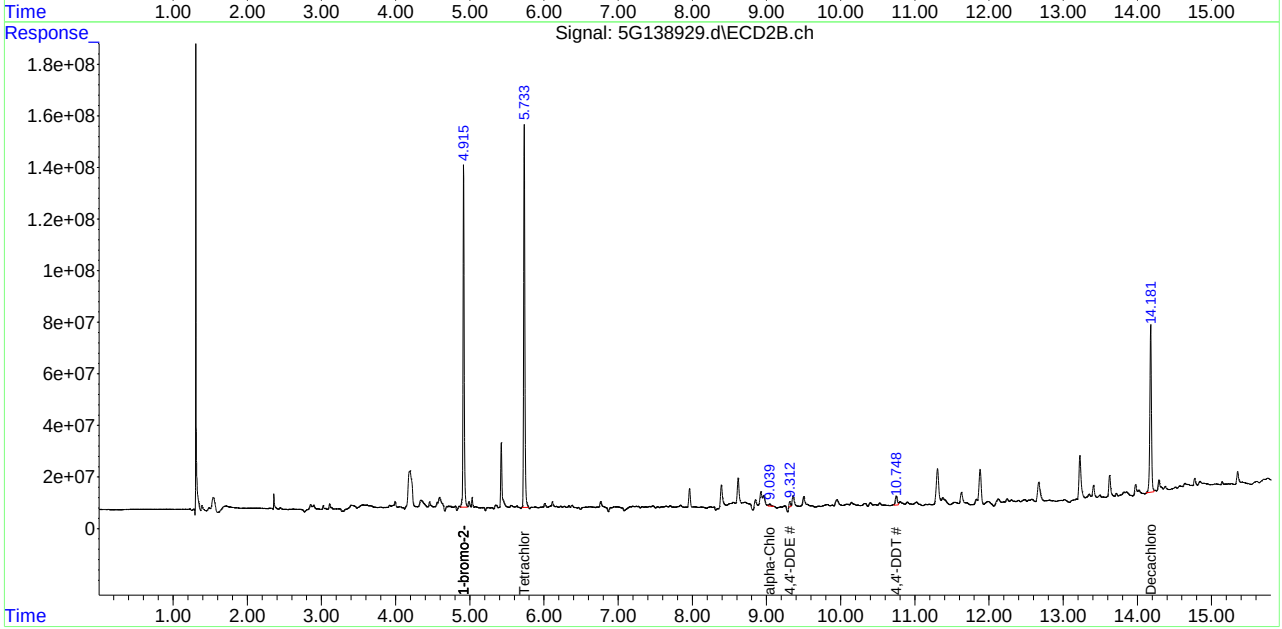
Quantitation Report (QT Reviewed)

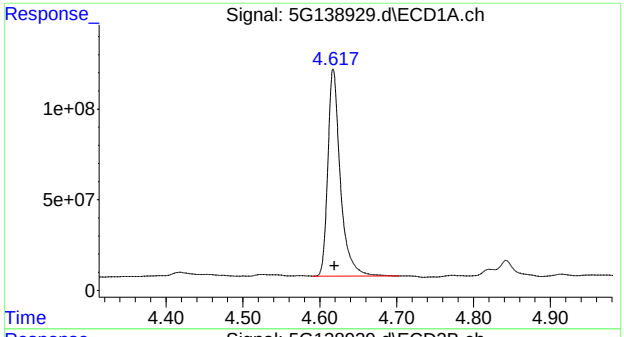
Data Path : C:\msdchem\1\data\nazaryne\g5g3662\
Data File : 5G138929.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 6:19 pm
Operator : tilakp
Sample : jd91339-14 m
Misc : op55825,G5G3662,5.1,,,10,1
ALS Vial : 86 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 06:07:05 2024
Quant Method : C:\msdchem\1\data\nazaryne\g5g3662\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:16:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

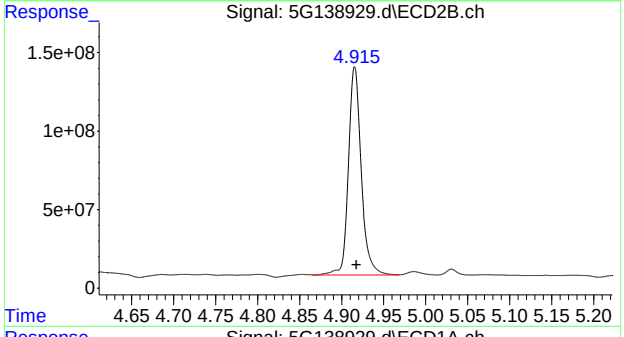






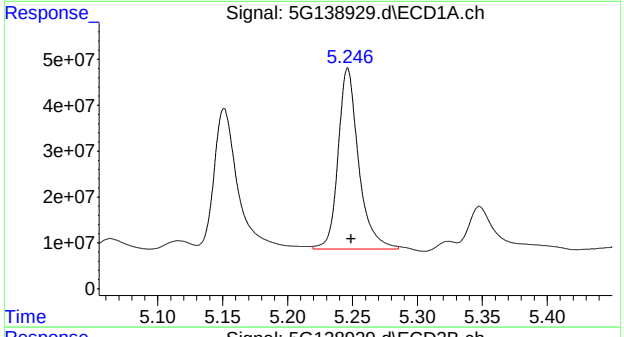
#1 1-bromo-2-nitrobenzene

R.T.: 4.617 min
Delta R.T.: -0.002 min
Response: 1290341356
Conc: 5.00 PPB m



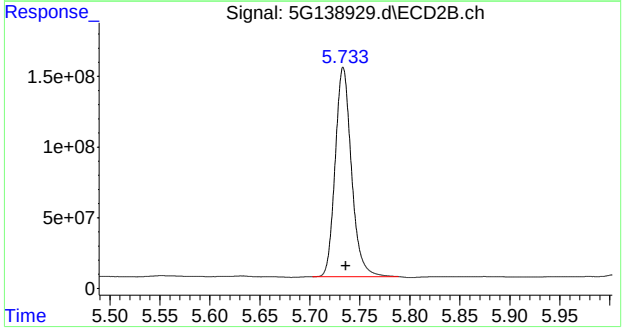
#1 1-bromo-2-nitrobenzene

R.T.: 4.915 min
Delta R.T.: -0.003 min
Response: 1416552976
Conc: 5.00 PPB m



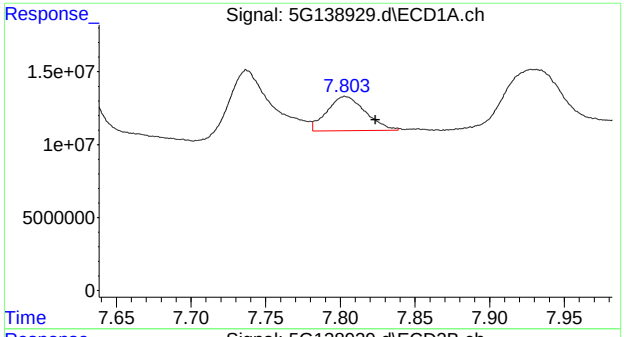
#2 Tetrachloro-m-xylene

R.T.: 5.246 min
Delta R.T.: -0.003 min
Response: 432927187
Conc: 3.11 PPB m



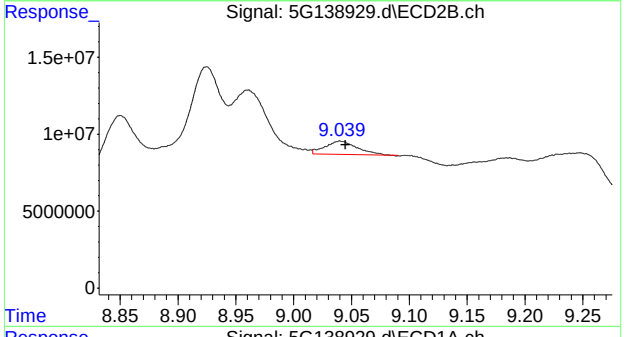
#2 Tetrachloro-m-xylene

R.T.: 5.733 min
Delta R.T.: -0.003 min
Response: 1682979923
Conc: 4.45 PPB m



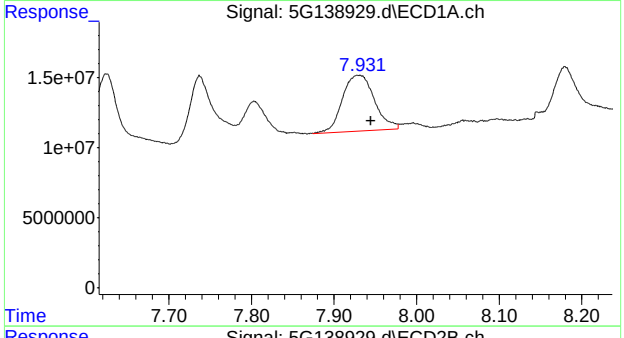
#13 alpha-Chlordane

R.T.: 7.803 min
Delta R.T.: -0.021 min
Response: 41775469
Conc: 0.10 PPB m



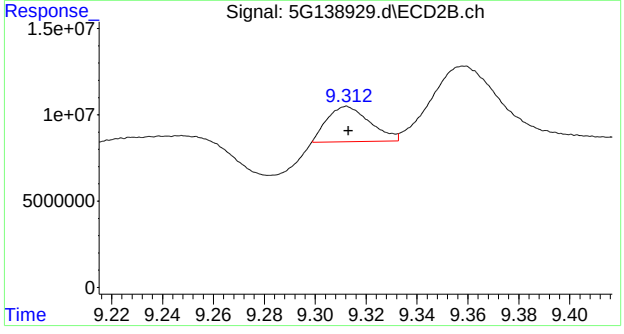
#13 alpha-Chlordane

R.T.: 9.039 min
Delta R.T.: -0.005 min
Response: 16720855
Conc: 0.04 PPB m



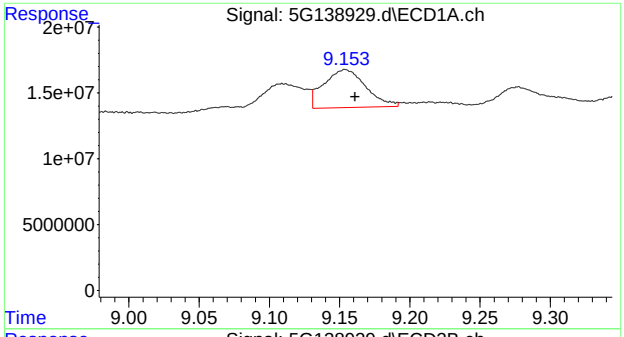
#15 4,4'-DDE

R.T.: 7.931 min
Delta R.T.: -0.013 min
Response: 107884130
Conc: 0.29 PPB m



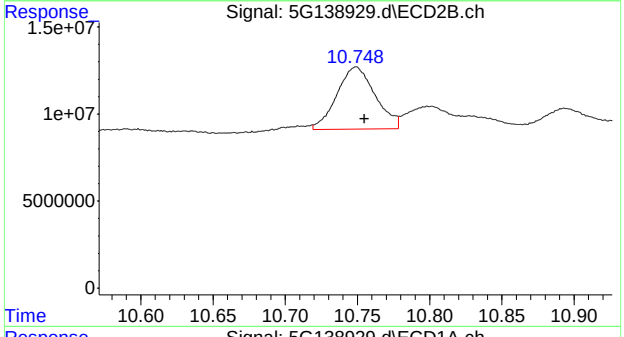
#15 4,4'-DDE

R.T.: 9.312 min
Delta R.T.: 0.000 min
Response: 24021997
Conc: 0.06 PPB m



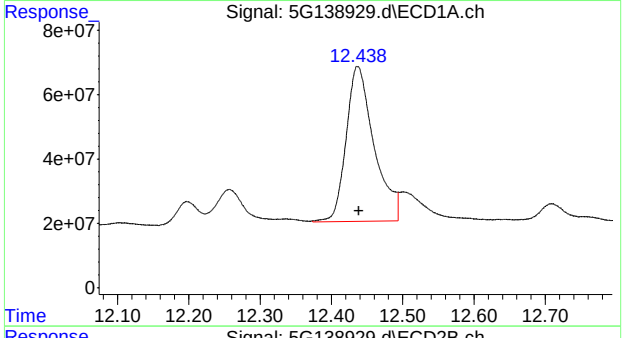
#20 4,4'-DDT

R.T.: 9.153 min
Delta R.T.: -0.008 min
Response: 59933886
Conc: 0.20 PPB m



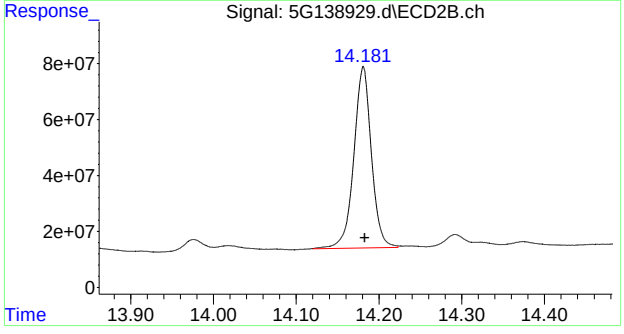
#20 4,4'-DDT

R.T.: 10.748 min
Delta R.T.: -0.006 min
Response: 65867756
Conc: 0.23 PPB m



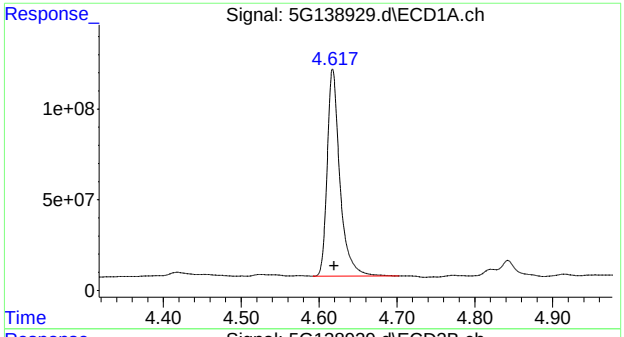
#26 Decachlorobiphenyl

R.T.: 12.438 min
Delta R.T.: 0.000 min
Response: 1311279711
Conc: 3.51 PPB m



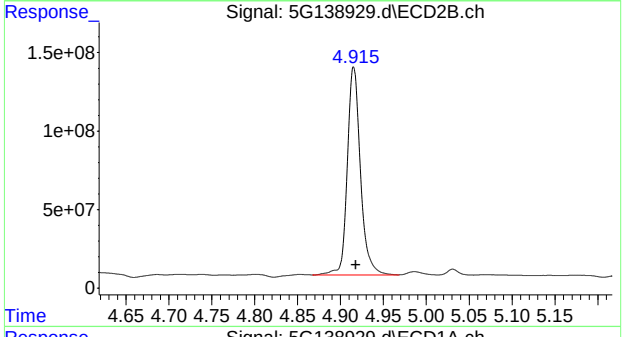
#26 Decachlorobiphenyl

R.T.: 14.181 min
Delta R.T.: -0.002 min
Response: 957801863
Conc: 3.40 PPB m



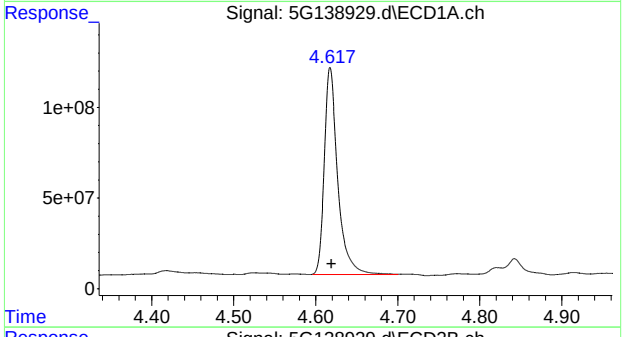
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.617 min
Delta R.T.: -0.002 min
Response: 1289584772
Conc: 5.00 PPB m



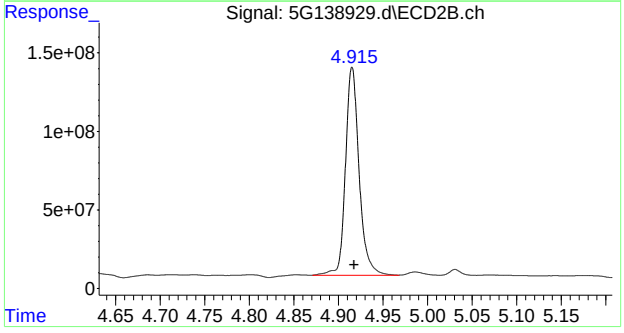
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.915 min
Delta R.T.: -0.003 min
Response: 1415457052
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.617 min
Delta R.T.: -0.002 min
Response: 1293243645
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.915 min
Delta R.T.: -0.003 min
Response: 1415486986
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco
07/02/24 03:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 06:35 pm
Operator : mahalial
Sample : jd91339-1 m
Misc : op55793,grm560,5.0,,,10,1
ALS Vial : 118 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 05:51:06 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.865	4.302	381.4E6	358.0E6	3.175m	3.557m
	Spiked Amount	40.000		Recovery	=	7.94%	8.89%
51) S	Decachlor...	9.703	10.644	277.5E6	354.1E6	3.520m	4.580 #
	Spiked Amount	40.000		Recovery	=	8.80%	11.45%
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

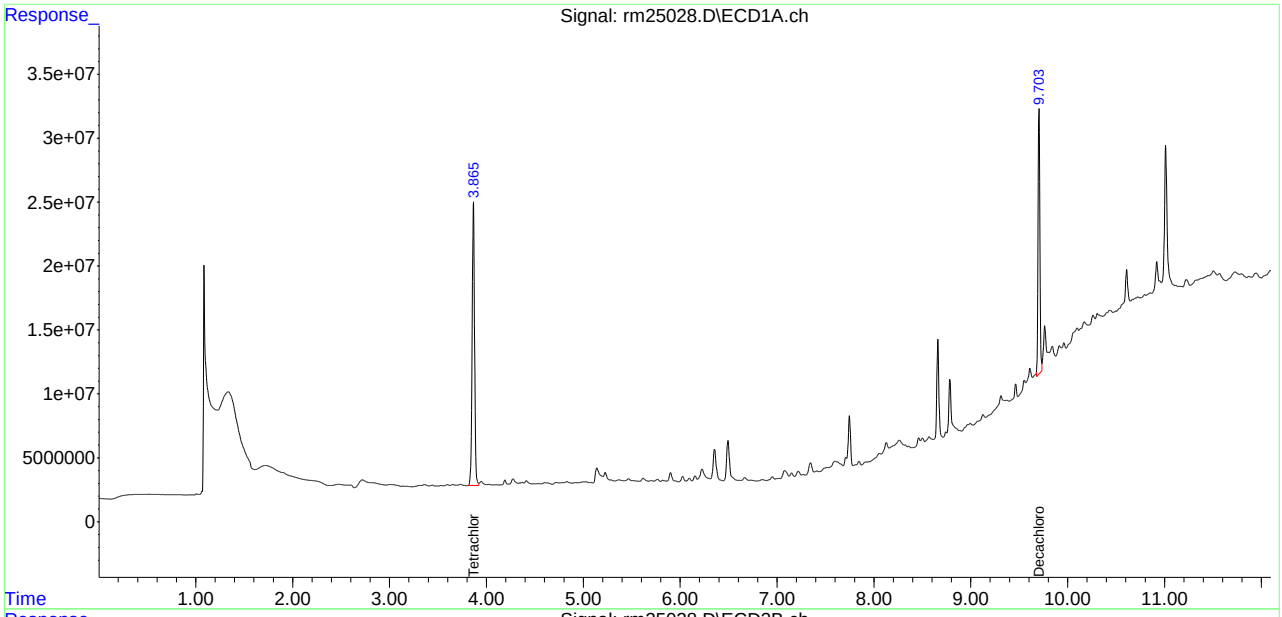
11.1.18
11

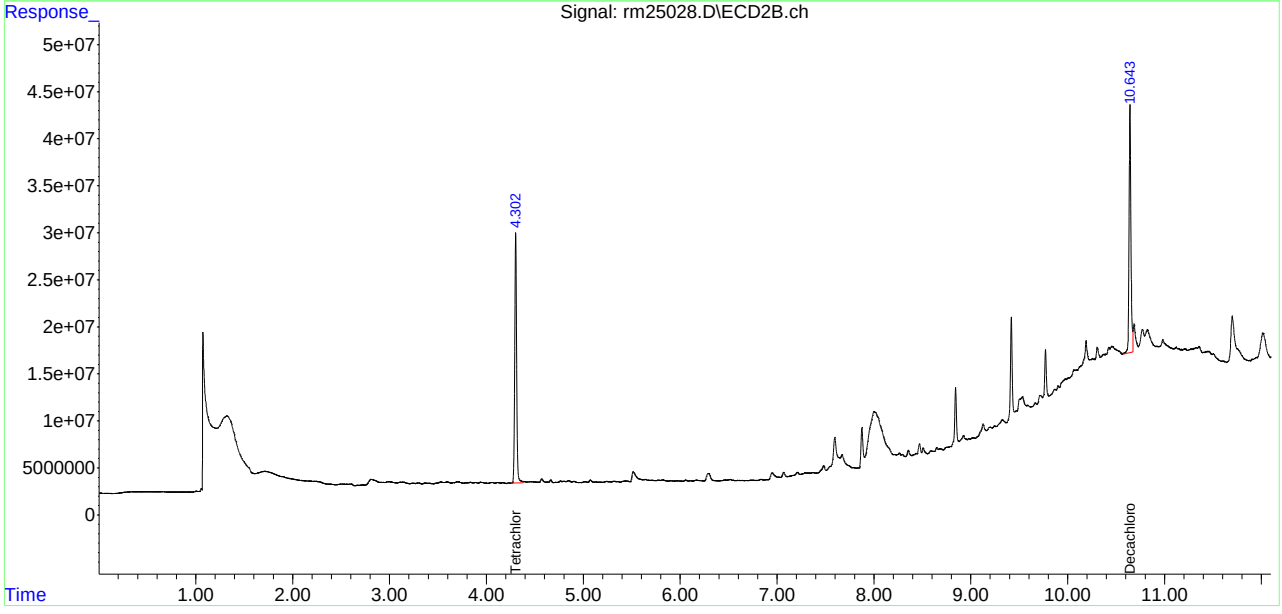
Quantitation Report (QT Reviewed)

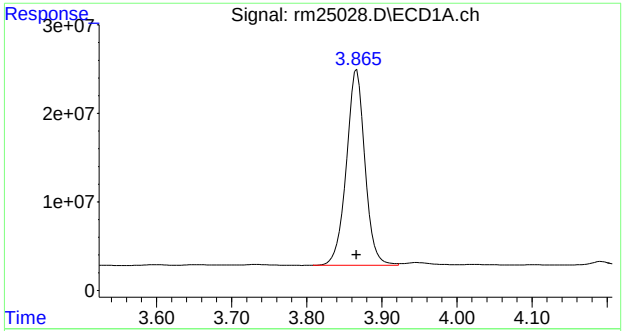
Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 06:35 pm
Operator : mahalial
Sample : jd91339-1 m
Misc : op55793,grm560,5.0,,,10,1
ALS Vial : 118 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 05:51:06 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

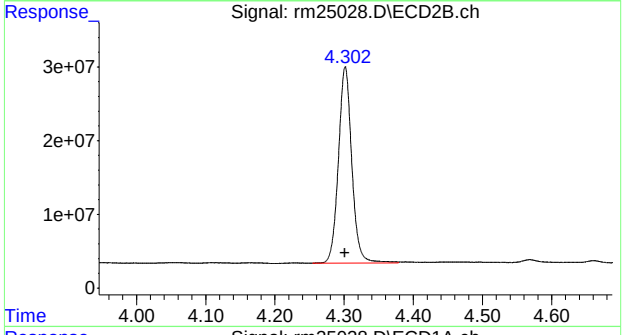






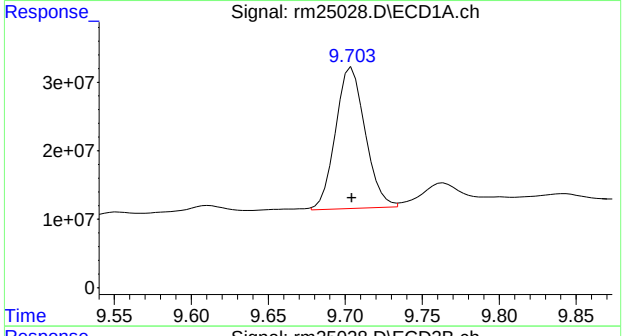
#1 Tetrachloro-m-xylene

R.T.: 3.865 min
Delta R.T.: 0.000 min
Response: 381395197
Conc: 3.18 ppb m



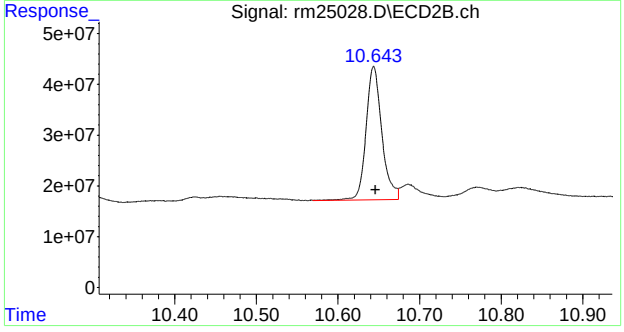
#1 Tetrachloro-m-xylene

R.T.: 4.302 min
Delta R.T.: 0.000 min
Response: 358016738
Conc: 3.56 ppb m



#51 Decachlorobiphenyl

R.T.: 9.703 min
Delta R.T.: -0.001 min
Response: 277456693
Conc: 3.52 ppb m



#51 Decachlorobiphenyl

R.T.: 10.644 min
Delta R.T.: -0.002 min
Response: 354085900
Conc: 4.58 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco
07/02/24 03:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 06:17 pm
Operator : mahalial
Sample : jd91339-2 m
Misc : op55793,grm560,5.3,,,10,1
ALS Vial : 117 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 05:36:48 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.865	4.300	371.9E6	359.1E6	3.096m	3.568m
Spiked Amount 40.000			Recovery	=	7.74%	8.92%
51) S Decachlor...	9.704	10.644	267.5E6	379.4E6	3.394m	4.907m#
Spiked Amount 40.000			Recovery	=	8.49%	12.27%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

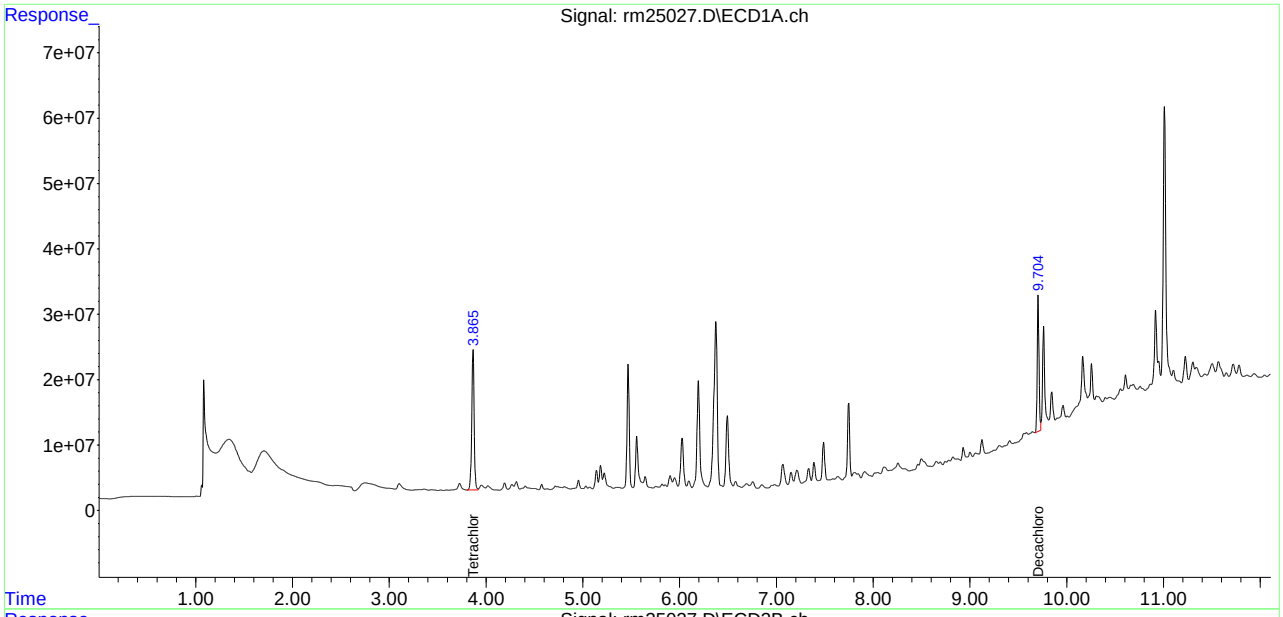
11.1.19 11

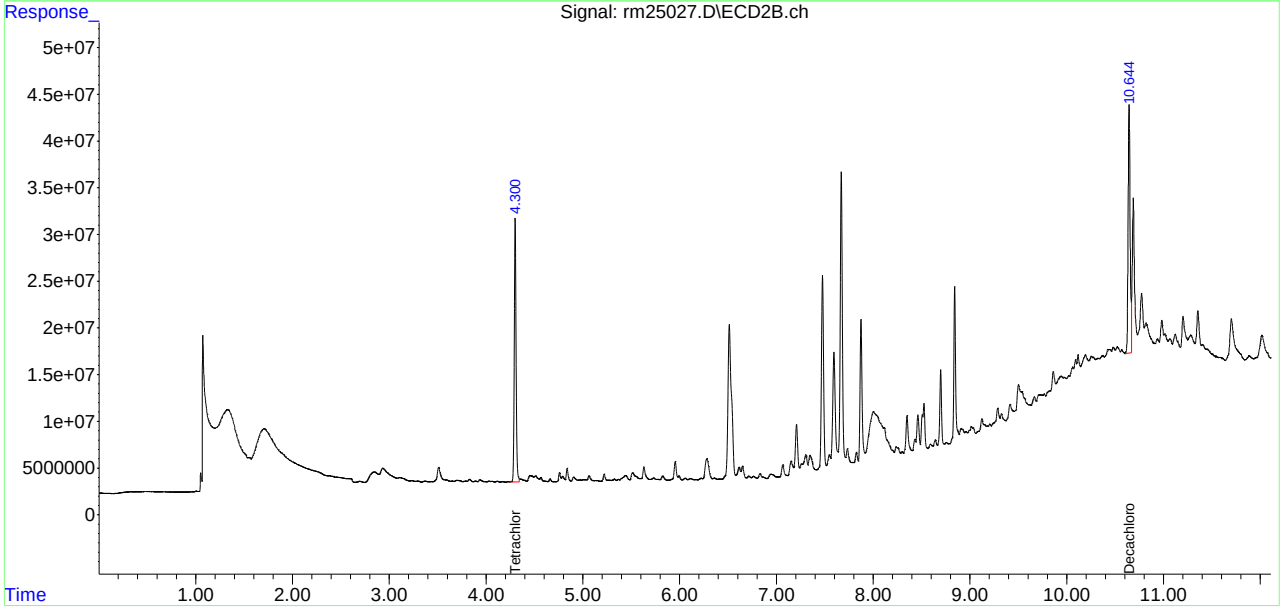
Quantitation Report (QT Reviewed)

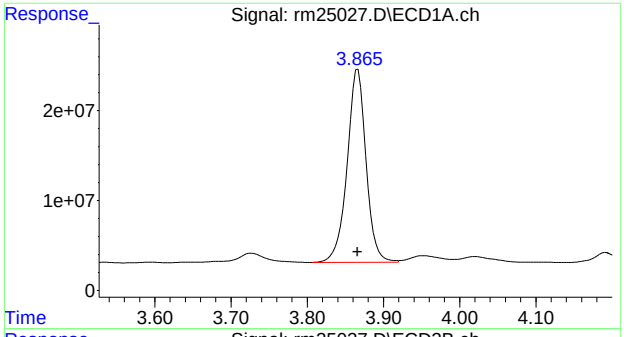
Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 06:17 pm
Operator : mahalial
Sample : jd91339-2 m
Misc : op55793,grm560,5.3,,,10,1
ALS Vial : 117 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 05:36:48 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

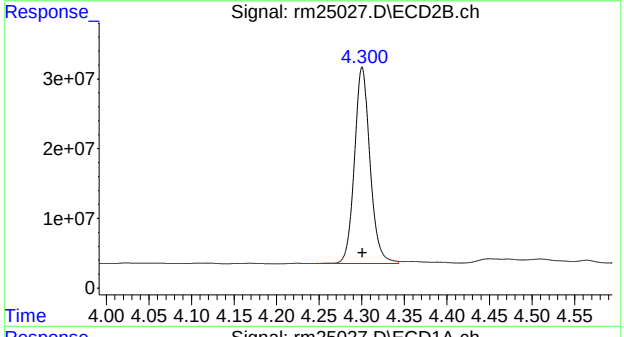






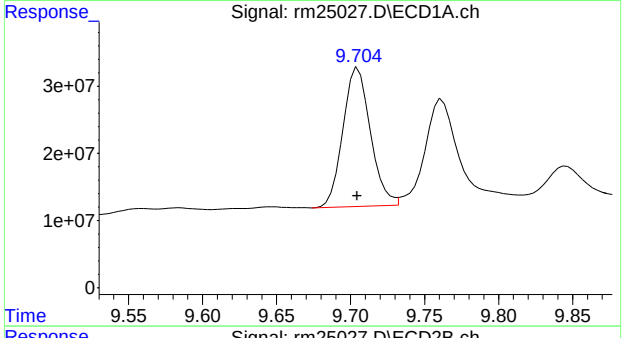
#1 Tetrachloro-m-xylene

R.T.: 3.865 min
Delta R.T.: 0.000 min
Response: 371914507
Conc: 3.10 ppb m



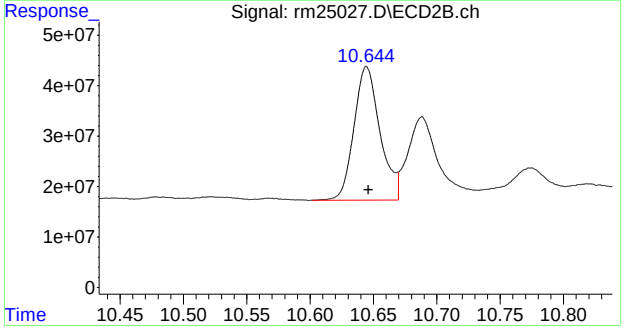
#1 Tetrachloro-m-xylene

R.T.: 4.300 min
Delta R.T.: 0.000 min
Response: 359134678
Conc: 3.57 ppb m



#51 Decachlorobiphenyl

R.T.: 9.704 min
Delta R.T.: 0.000 min
Response: 267505465
Conc: 3.39 ppb m



#51 Decachlorobiphenyl

R.T.: 10.644 min
Delta R.T.: -0.002 min
Response: 379411666
Conc: 4.91 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco
07/02/24 03:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 06:53 pm
Operator : mahalial
Sample : jd91339-3 m
Misc : op55793,grm560,5.0,,,10,1
ALS Vial : 119 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 05:56:16 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.866	4.301	418.8E6	385.9E6	3.486	3.835m
Spiked Amount 40.000			Recovery	=	8.71%	9.59%
51) S Decachlor...	9.703	10.645	274.7E6	338.6E6	3.486m	4.380m#
Spiked Amount 40.000			Recovery	=	8.71%	10.95%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

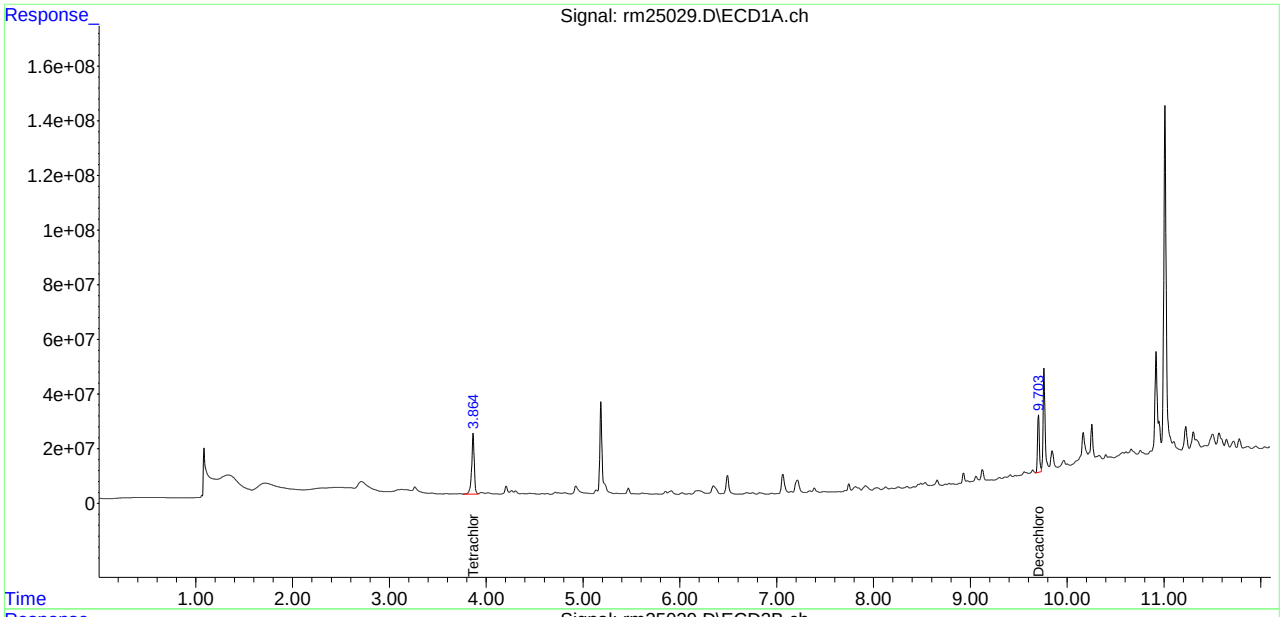
11.1.20

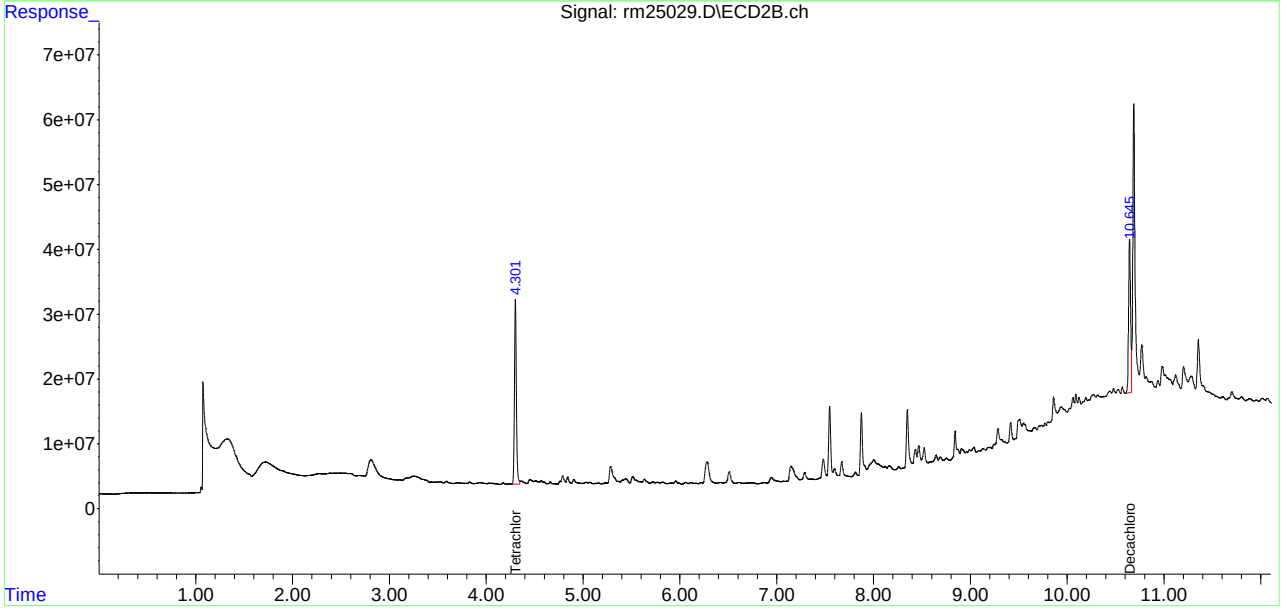
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 06:53 pm
Operator : mahalial
Sample : jd91339-3 m
Misc : op55793,grm560,5.0,,,10,1
ALS Vial : 119 Sample Multiplier: 1

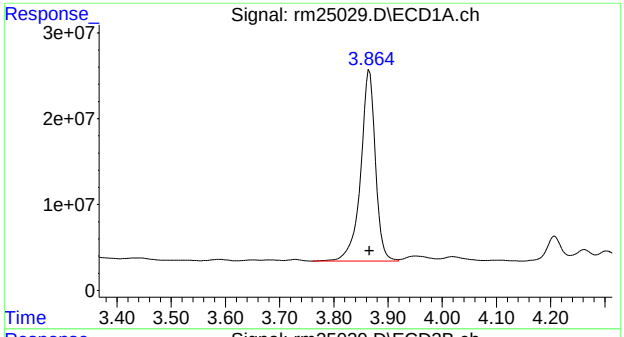
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 05:56:16 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)



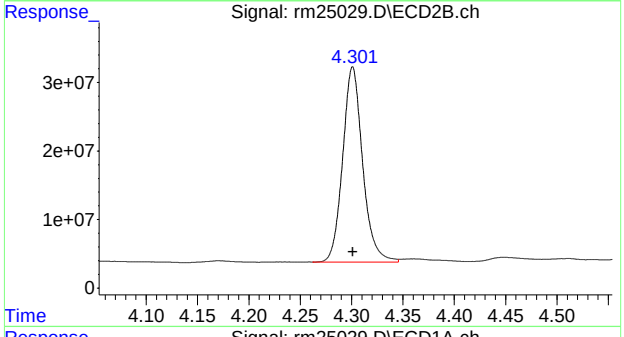


11.1.20



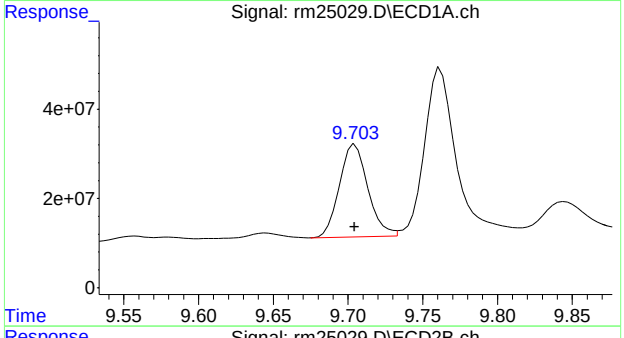
#1 Tetrachloro-m-xylene

R.T.: 3.866 min
Delta R.T.: 0.000 min
Response: 418767652
Conc: 3.49 ppb



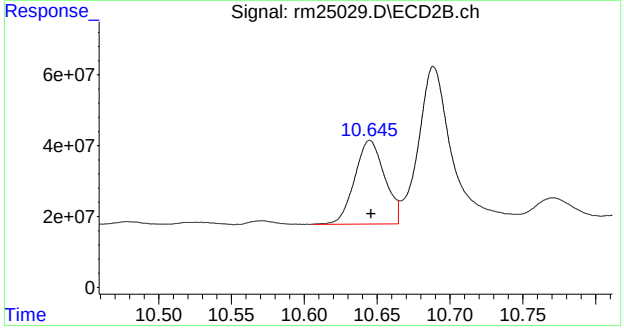
#1 Tetrachloro-m-xylene

R.T.: 4.301 min
Delta R.T.: 0.000 min
Response: 385948027
Conc: 3.83 ppb m



#51 Decachlorobiphenyl

R.T.: 9.703 min
Delta R.T.: -0.001 min
Response: 274736652
Conc: 3.49 ppb m



#51 Decachlorobiphenyl

R.T.: 10.645 min
Delta R.T.: -0.001 min
Response: 338617775
Conc: 4.38 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco
07/02/24 03:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 07:10 pm
Operator : mahalial
Sample : jd91339-4 m
Misc : op55793,grm560,5.2,,,10,1
ALS Vial : 120 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 06:19:29 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.865	4.301	380.9E6	370.1E6	3.171m	3.677m
Spiked Amount 40.000			Recovery	=	7.93%	9.19%
51) S Decachlor...	9.705	10.645	318.4E6	361.5E6	4.039	4.676
Spiked Amount 40.000			Recovery	=	10.10%	11.69%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

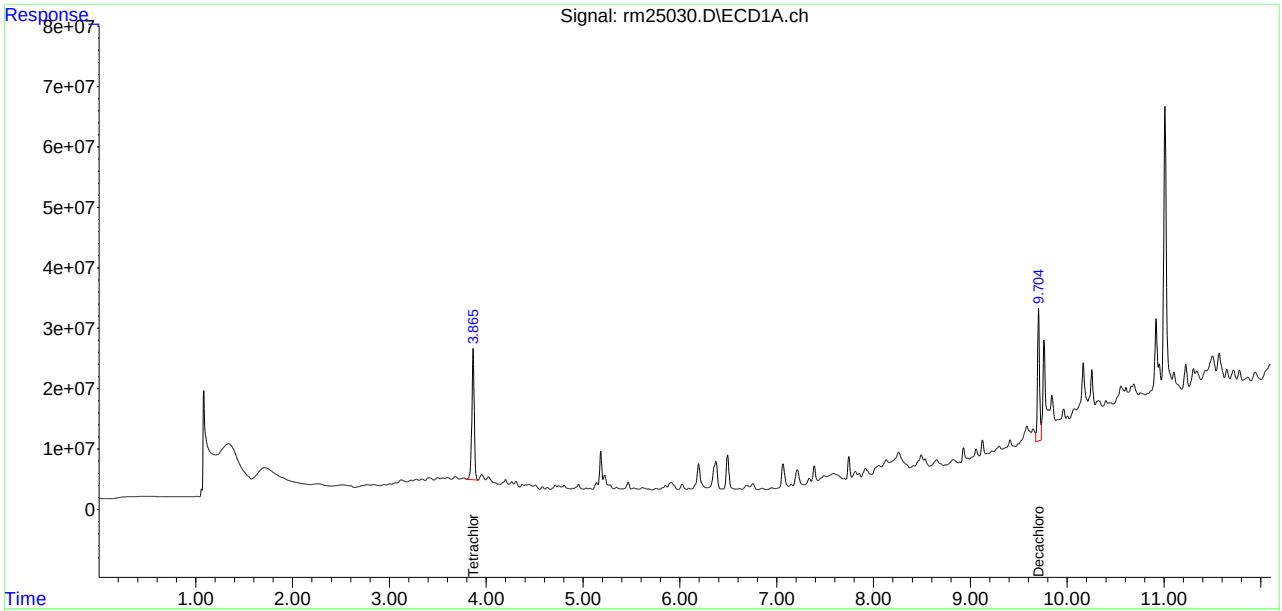
11.1.21
11

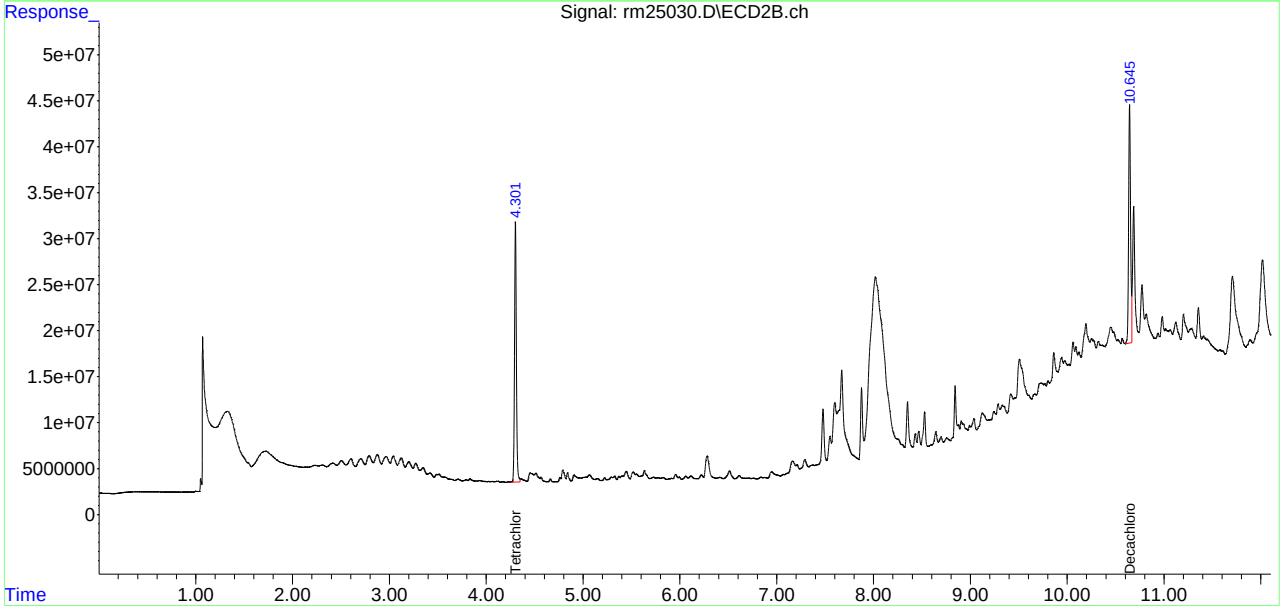
Quantitation Report (QT Reviewed)

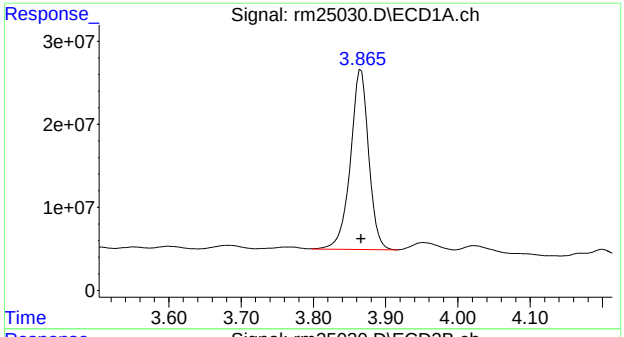
Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 07:10 pm
Operator : mahalial
Sample : jd91339-4 m
Misc : op55793,grm560,5.2,,,10,1
ALS Vial : 120 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 06:19:29 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

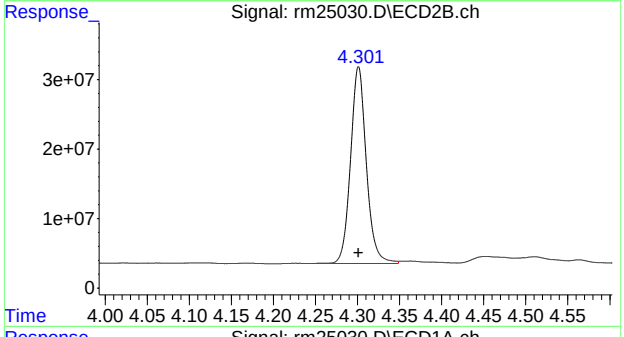






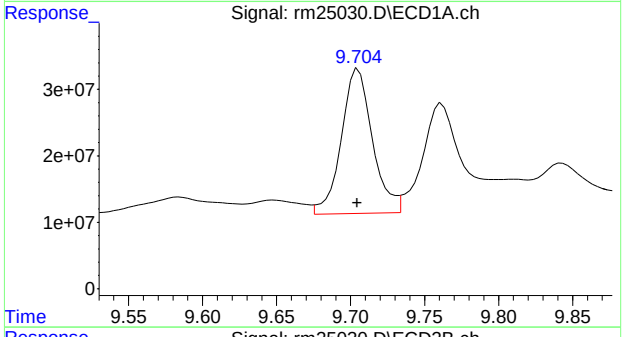
#1 Tetrachloro-m-xylene

R.T.: 3.865 min
Delta R.T.: -0.001 min
Response: 380854814
Conc: 3.17 ppb m



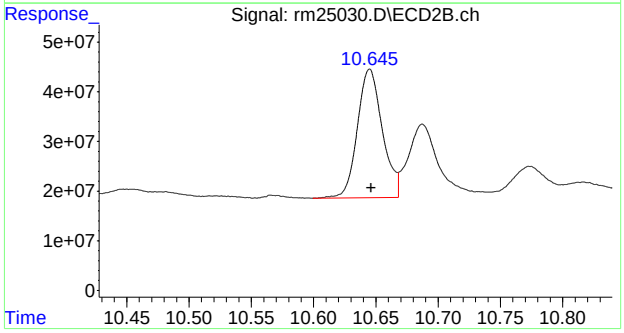
#1 Tetrachloro-m-xylene

R.T.: 4.301 min
Delta R.T.: 0.000 min
Response: 370086734
Conc: 3.68 ppb m



#51 Decachlorobiphenyl

R.T.: 9.705 min
Delta R.T.: 0.001 min
Response: 318359280
Conc: 4.04 ppb



#51 Decachlorobiphenyl

R.T.: 10.645 min
Delta R.T.: 0.000 min
Response: 361498228
Conc: 4.68 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco
07/02/24 03:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 07:28 pm
Operator : mahalial
Sample : jd91339-5 m
Misc : op55793,grm560,5.2,,,10,1
ALS Vial : 121 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 07:17:35 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.865	4.301	387.6E6	358.2E6	3.226m	3.560m
	Spiked Amount 40.000			Recovery	=	8.06%	8.90%
51) S	Decachlor...	9.703	10.644	285.1E6	370.5E6	3.618m	4.792 #
	Spiked Amount 40.000			Recovery	=	9.04%	11.98%
	Target Compounds						
32)	AR1262-B	7.843	8.920	19312891	25507693	1.981m	2.787m#
34)	AR1262-D	8.460	9.409	34561761	51142042	2.263m	3.632m#
35)	AR1262-E	8.775	9.726	40480676	53759330	2.623m	3.662m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

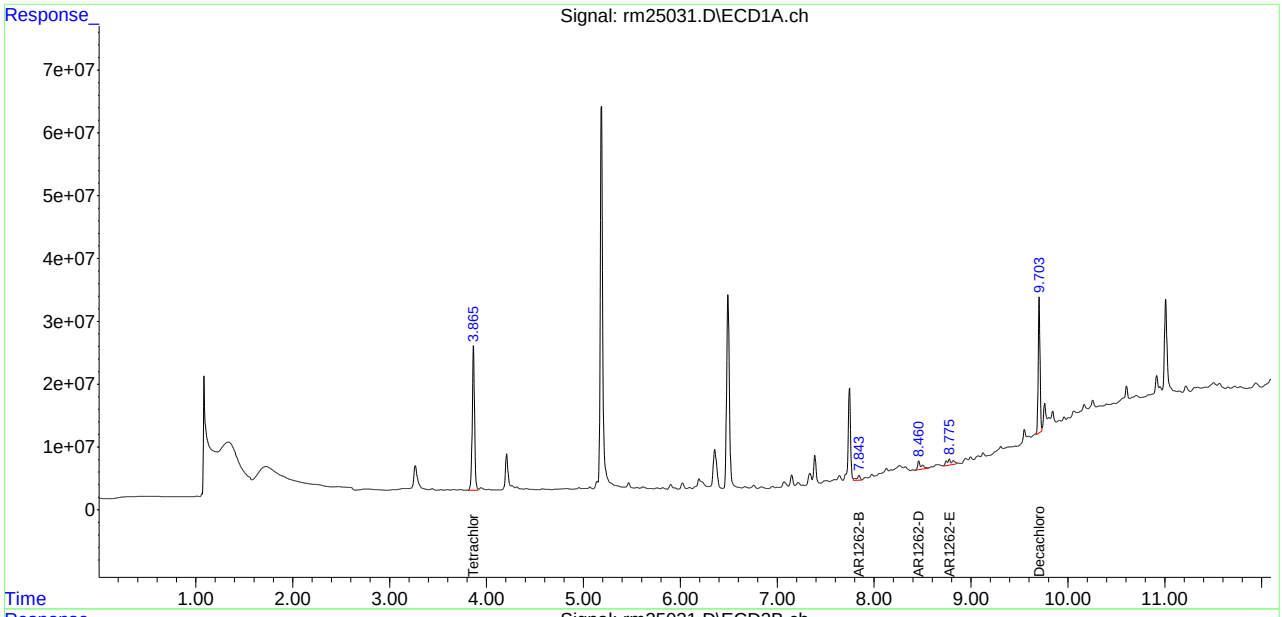
11.1.22 11

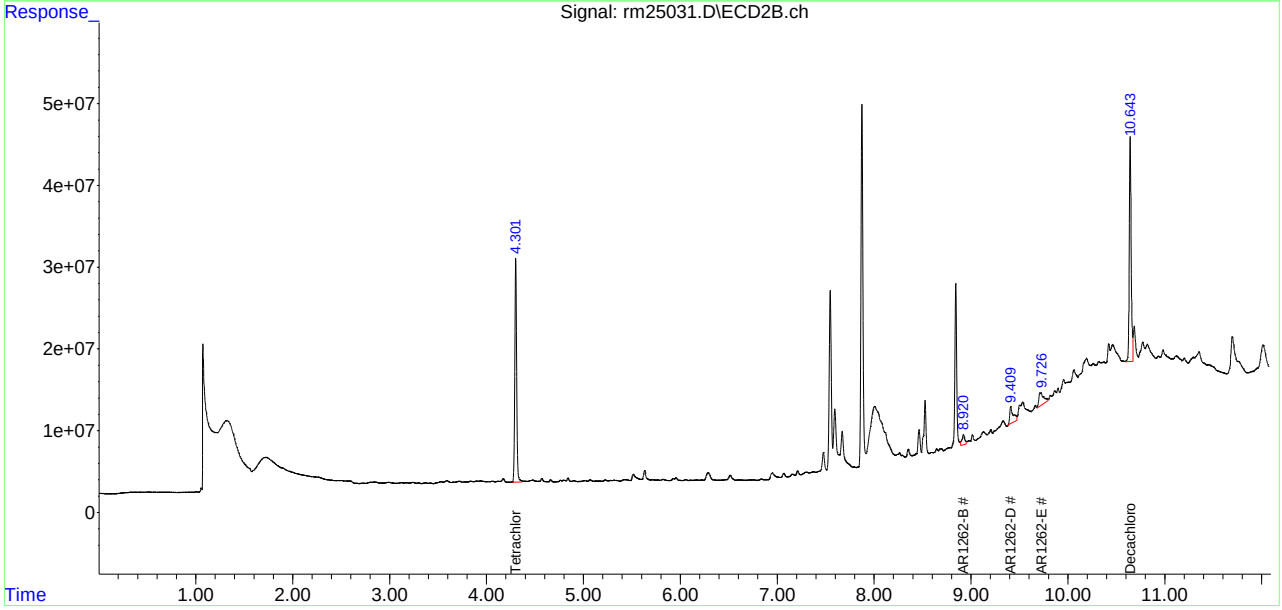
Quantitation Report (QT Reviewed)

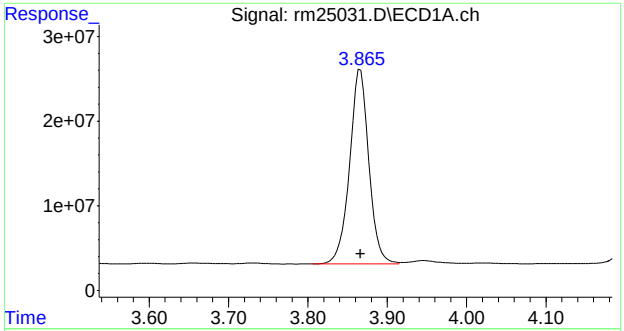
Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 07:28 pm
Operator : mahalial
Sample : jd91339-5 m
Misc : op55793,grm560,5.2,,,10,1
ALS Vial : 121 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 07:17:35 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

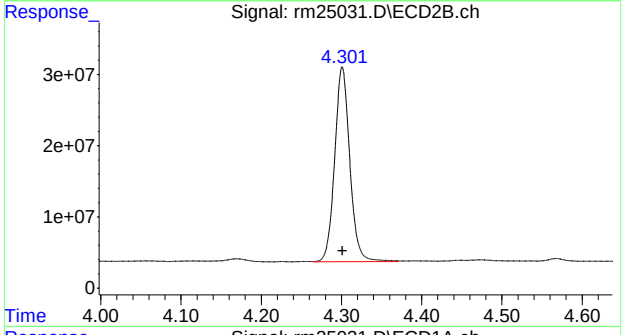






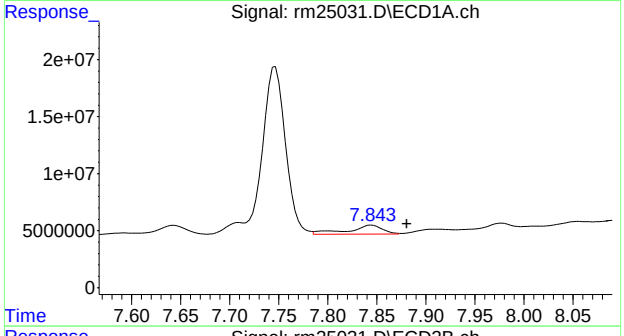
#1 Tetrachloro-m-xylene

R.T.: 3.865 min
Delta R.T.: -0.001 min
Response: 387553854
Conc: 3.23 ppb m



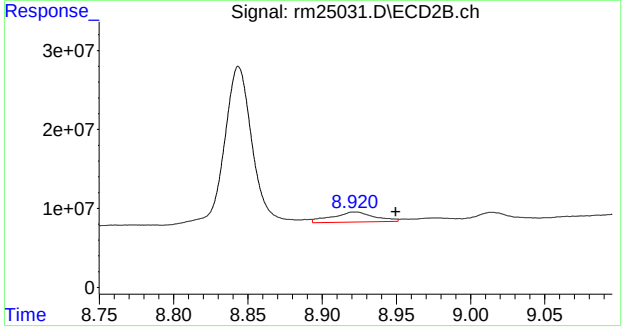
#1 Tetrachloro-m-xylene

R.T.: 4.301 min
Delta R.T.: 0.000 min
Response: 358233660
Conc: 3.56 ppb m



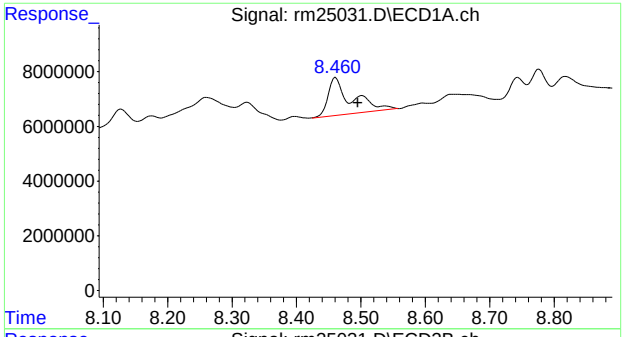
#32 AR1262-B

R.T.: 7.843 min
Delta R.T.: -0.037 min
Response: 19312891
Conc: 1.98 PPB m



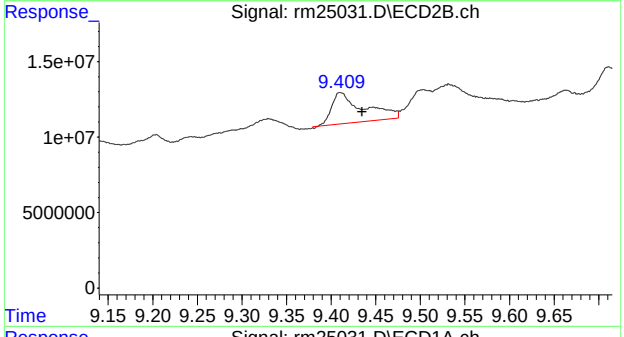
#32 AR1262-B

R.T.: 8.920 min
Delta R.T.: -0.029 min
Response: 25507693
Conc: 2.79 PPB m



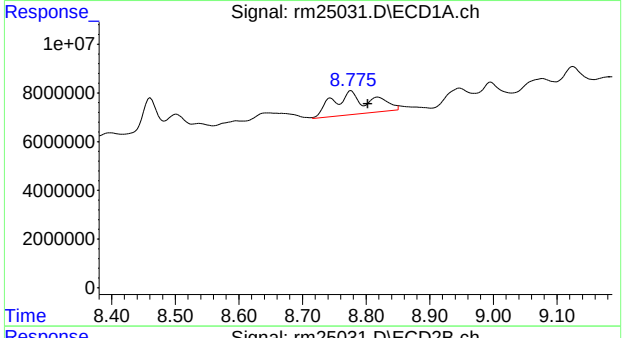
#34 AR1262-D

R.T.: 8.460 min
Delta R.T.: -0.036 min
Response: 34561761
Conc: 2.26 PPB m



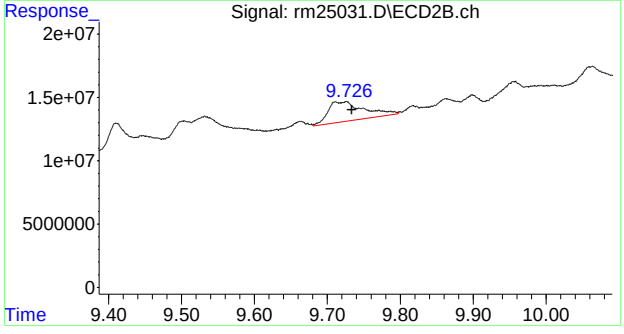
#34 AR1262-D

R.T.: 9.409 min
Delta R.T.: -0.026 min
Response: 51142042
Conc: 3.63 PPB m



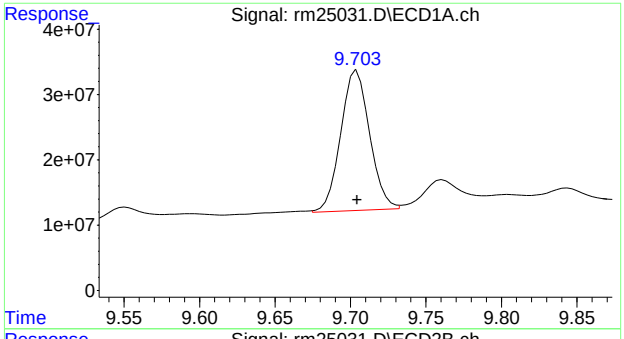
#35 AR1262-E

R.T.: 8.775 min
Delta R.T.: -0.027 min
Response: 40480676
Conc: 2.62 PPB m



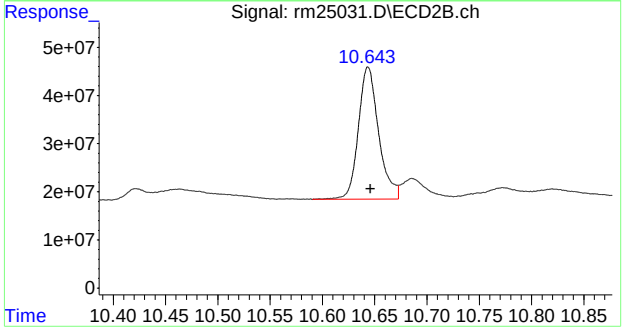
#35 AR1262-E

R.T.: 9.726 min
Delta R.T.: -0.007 min
Response: 53759330
Conc: 3.66 PPB m



#51 Decachlorobiphenyl

R.T.: 9.703 min
Delta R.T.: -0.001 min
Response: 285134999
Conc: 3.62 ppb m



#51 Decachlorobiphenyl

R.T.: 10.644 min
Delta R.T.: -0.002 min
Response: 370471002
Conc: 4.79 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco
07/02/24 03:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 07:46 pm
Operator : mahalial
Sample : jd91339-6 m
Misc : op55793,grm560,5.4,,,10,1
ALS Vial : 122 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 06:28:44 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.865	4.301	386.8E6	364.5E6	3.220m	3.622m
Spiked Amount 40.000			Recovery	=	8.05%	9.05%
51) S Decachlor...	9.704	10.645	269.2E6	367.3E6	3.416m	4.751m#
Spiked Amount 40.000			Recovery	=	8.54%	11.88%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

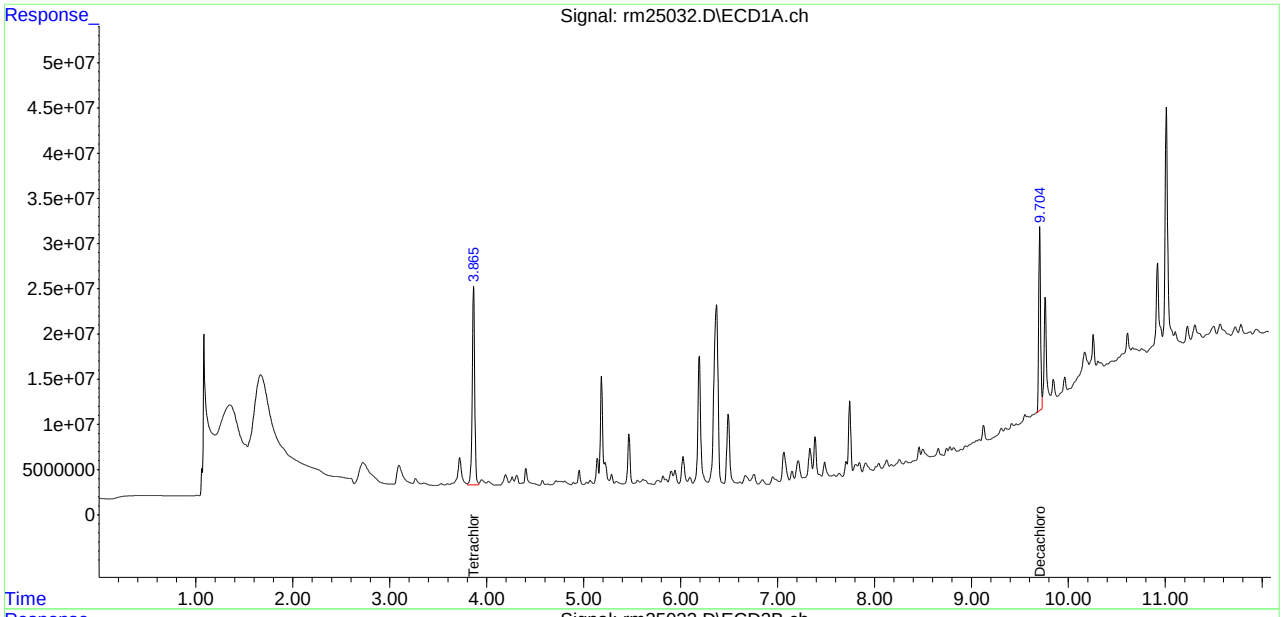
11.1.23
11

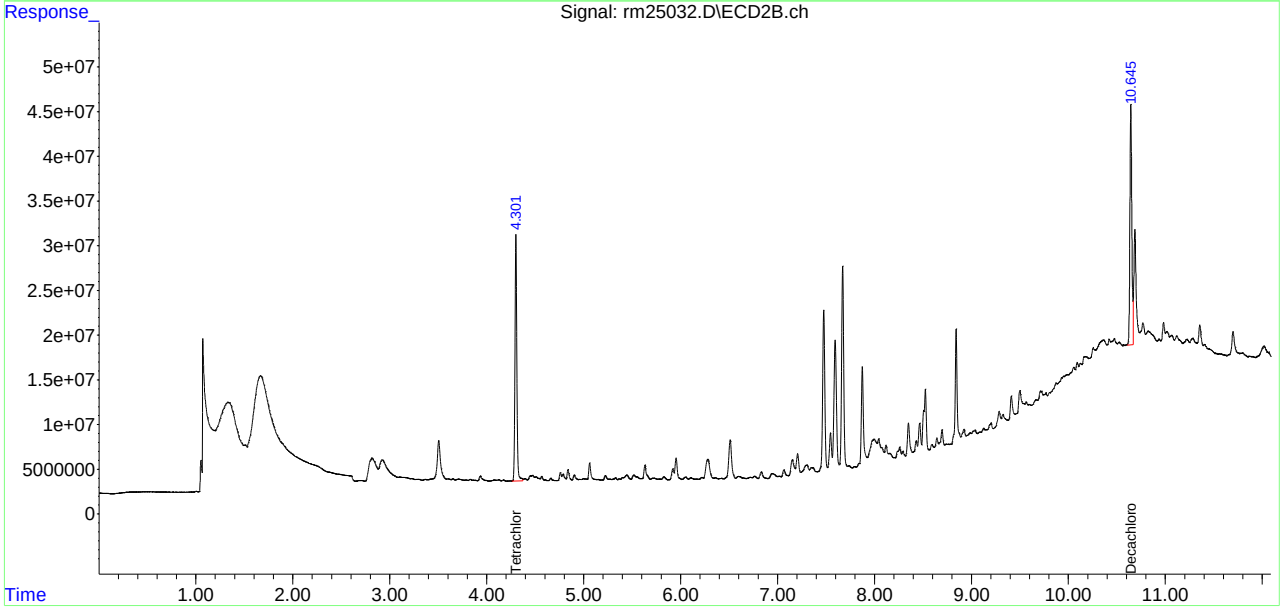
Quantitation Report (QT Reviewed)

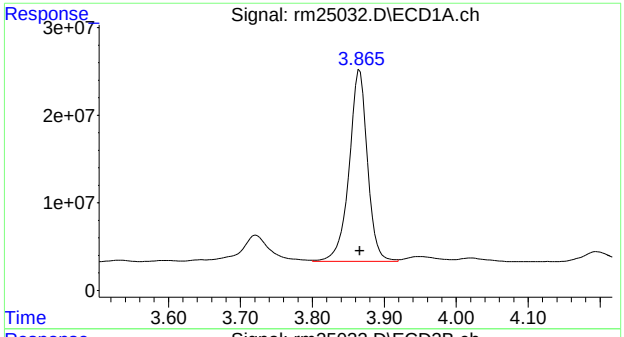
Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 07:46 pm
Operator : mahalial
Sample : jd91339-6 m
Misc : op55793,grm560,5.4,,,10,1
ALS Vial : 122 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 06:28:44 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

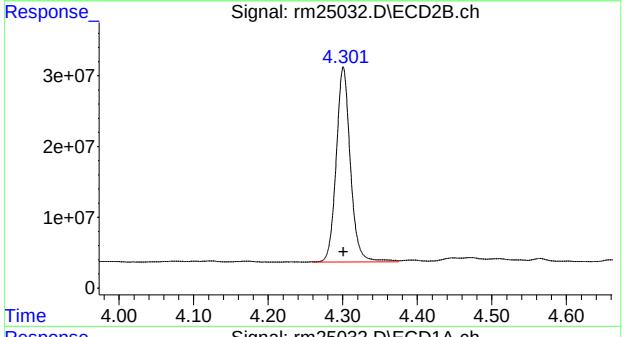






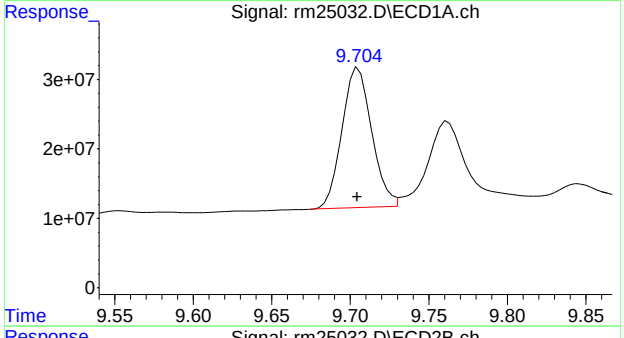
#1 Tetrachloro-m-xylene

R.T.: 3.865 min
Delta R.T.: -0.002 min
Response: 386787316
Conc: 3.22 ppb m



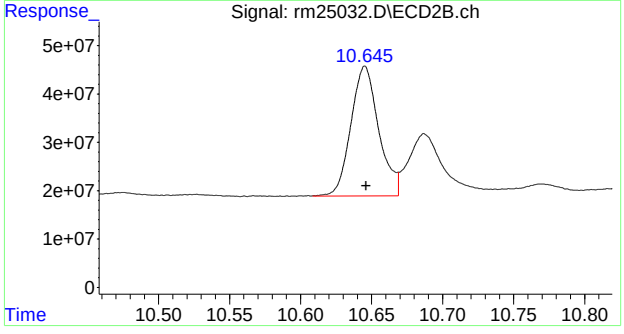
#1 Tetrachloro-m-xylene

R.T.: 4.301 min
Delta R.T.: 0.000 min
Response: 364548937
Conc: 3.62 ppb m



#51 Decachlorobiphenyl

R.T.: 9.704 min
Delta R.T.: 0.000 min
Response: 269200061
Conc: 3.42 ppb m



#51 Decachlorobiphenyl

R.T.: 10.645 min
Delta R.T.: -0.001 min
Response: 367333217
Conc: 4.75 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco
07/02/24 03:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 08:04 pm
Operator : mahalial
Sample : jd91339-7 m
Misc : op55793,grm560,5.2,,,10,1
ALS Vial : 123 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 06:00:44 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.866	4.301	356.5E6	330.4E6	2.968m	3.283m
Spiked Amount 40.000			Recovery	=	7.42%	8.21%
51) S Decachlor...	9.703	10.644	258.9E6	318.4E6	3.286m	4.119m#
Spiked Amount 40.000			Recovery	=	8.21%	10.30%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

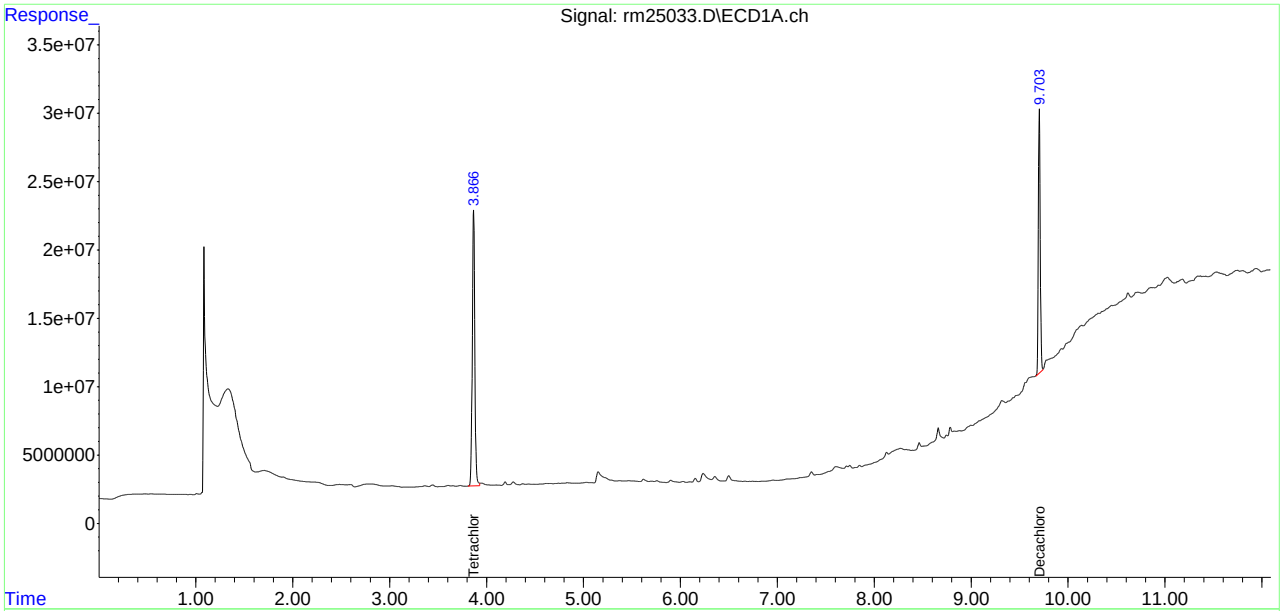
11.1.24
11

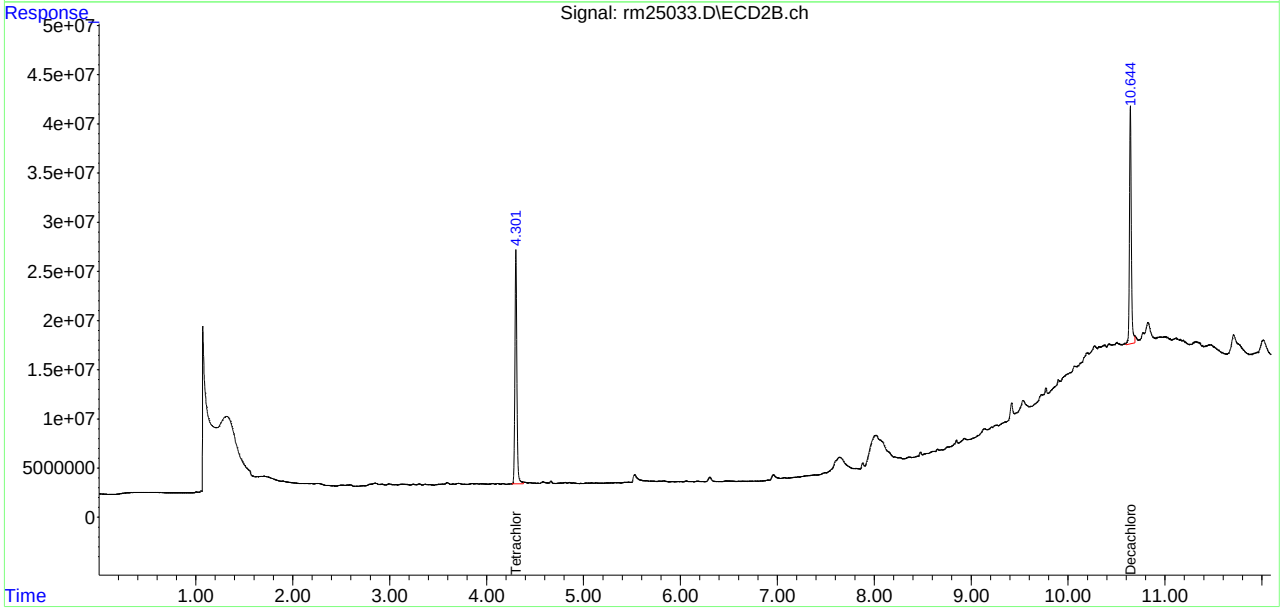
Quantitation Report (QT Reviewed)

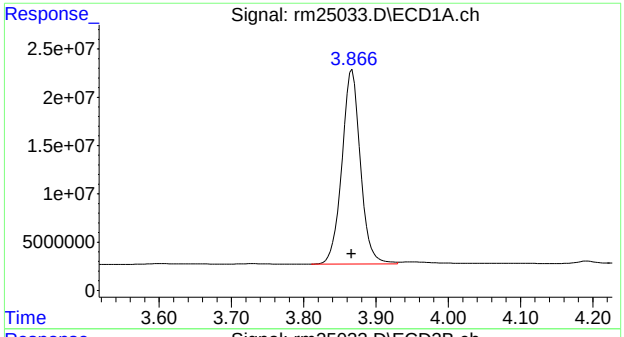
Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 08:04 pm
Operator : mahalial
Sample : jd91339-7 m
Misc : op55793,grm560,5.2,,,10,1
ALS Vial : 123 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 06:00:44 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

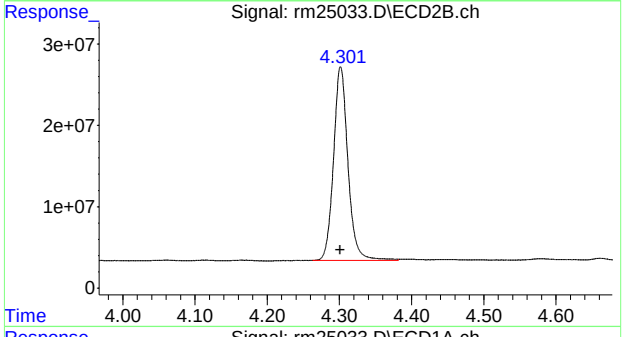






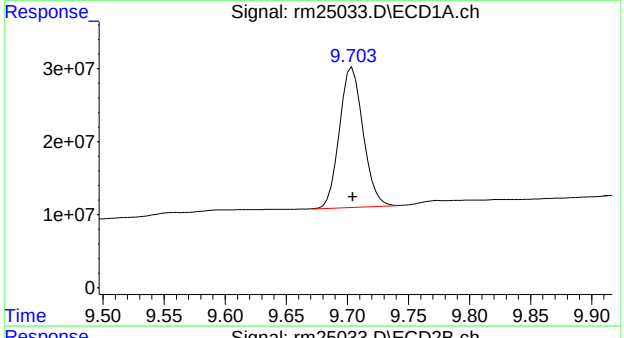
#1 Tetrachloro-m-xylene

R.T.: 3.866 min
Delta R.T.: 0.000 min
Response: 356473901
Conc: 2.97 ppb m



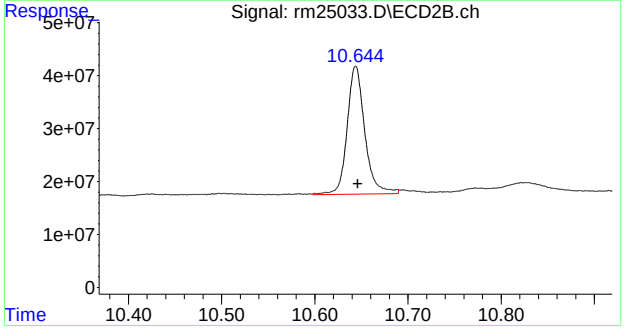
#1 Tetrachloro-m-xylene

R.T.: 4.301 min
Delta R.T.: 0.000 min
Response: 330431134
Conc: 3.28 ppb m



#51 Decachlorobiphenyl

R.T.: 9.703 min
Delta R.T.: -0.002 min
Response: 258948044
Conc: 3.29 ppb m



#51 Decachlorobiphenyl

R.T.: 10.644 min
Delta R.T.: -0.002 min
Response: 318430532
Conc: 4.12 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco
07/02/24 03:17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 08:22 pm
Operator : mahalial
Sample : jd91339-8 m
Misc : op55793,grm560,5.1,,,10,1
ALS Vial : 124 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 06:58:27 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.866	4.301	389.0E6	361.3E6	3.239m	3.590m
Spiked Amount 40.000			Recovery	=	8.10%	8.97%
51) S Decachlor...	9.703	10.646	280.1E6	319.4E6	3.553m	4.131m
Spiked Amount 40.000			Recovery	=	8.88%	10.33%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

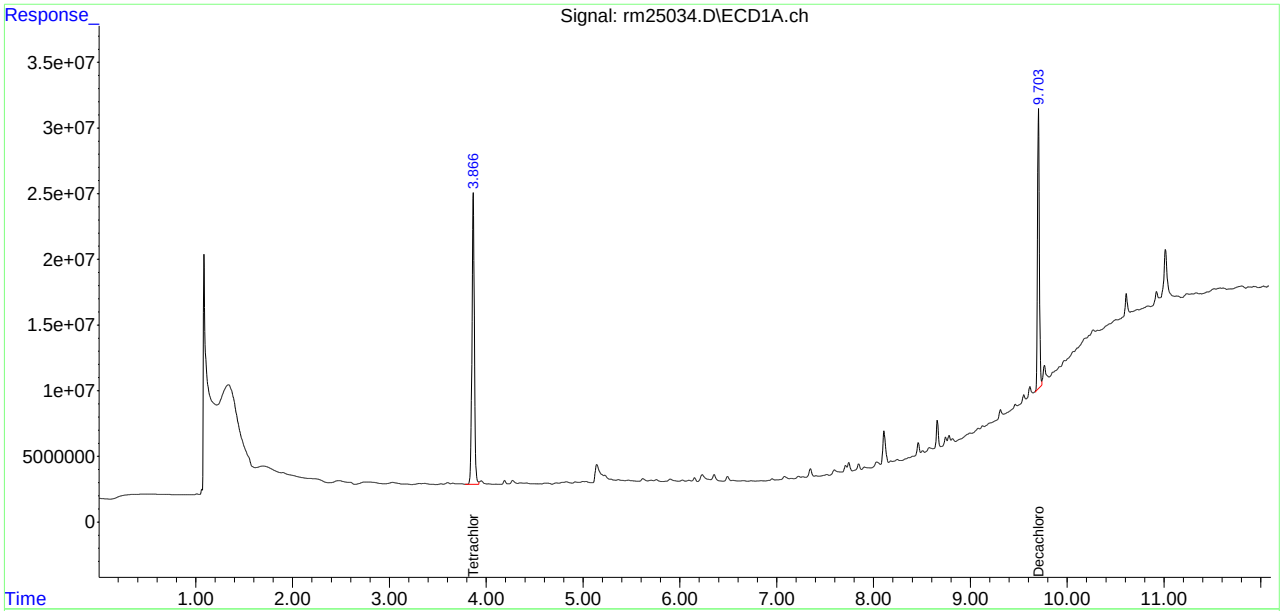
11.1.25
11

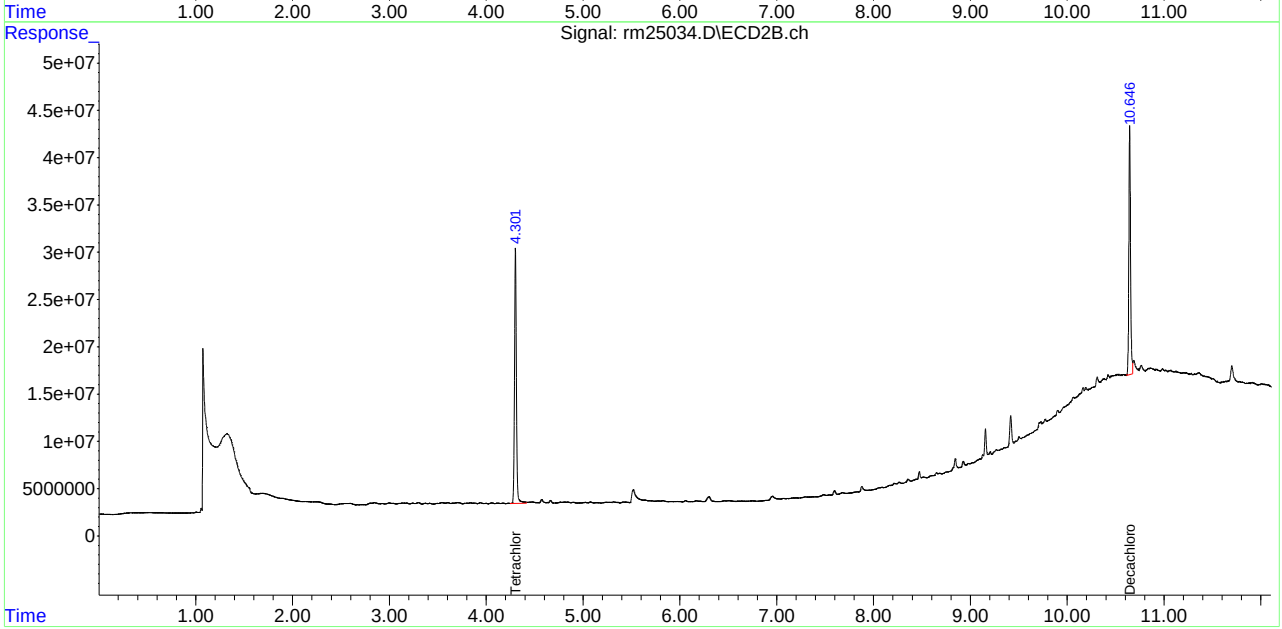
Quantitation Report (QT Reviewed)

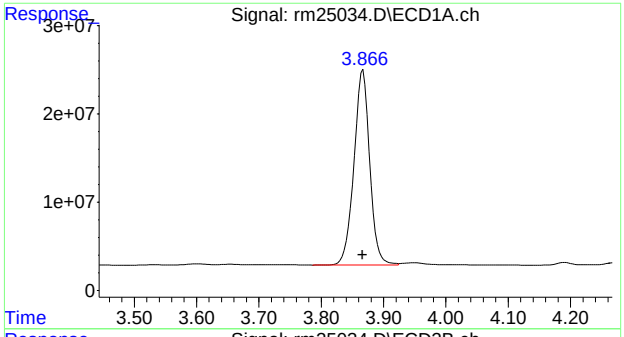
Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 08:22 pm
Operator : mahalial
Sample : jd91339-8 m
Misc : op55793,grm560,5.1,,,10,1
ALS Vial : 124 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 06:58:27 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

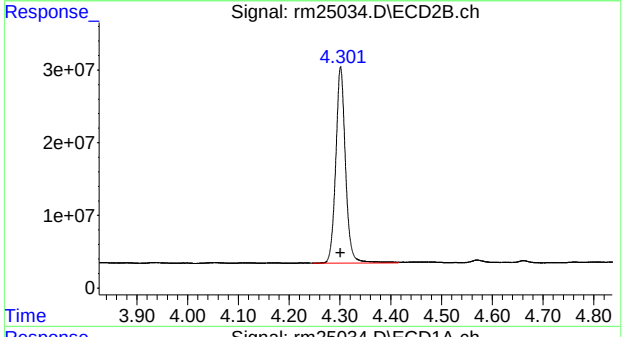






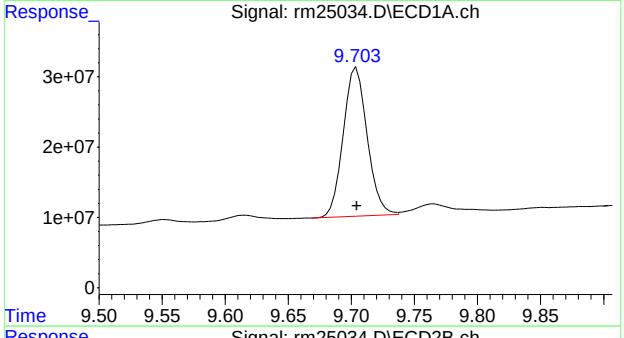
#1 Tetrachloro-m-xylene

R.T.: 3.866 min
Delta R.T.: 0.000 min
Response: 389034589
Conc: 3.24 ppb m



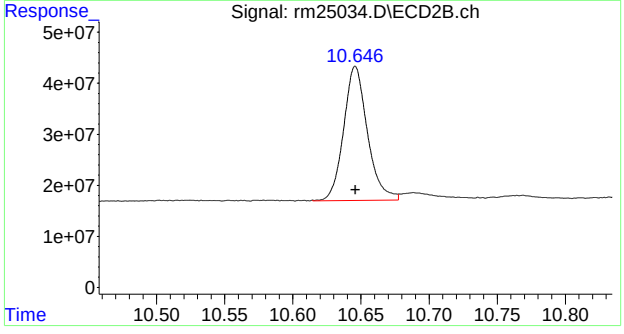
#1 Tetrachloro-m-xylene

R.T.: 4.301 min
Delta R.T.: 0.000 min
Response: 361297565
Conc: 3.59 ppb m



#51 Decachlorobiphenyl

R.T.: 9.703 min
Delta R.T.: -0.002 min
Response: 280057415
Conc: 3.55 ppb m



#51 Decachlorobiphenyl

R.T.: 10.646 min
Delta R.T.: 0.000 min
Response: 319416680
Conc: 4.13 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco
07/02/24 03:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 08:40 pm
Operator : mahalial
Sample : jd91339-9 m
Misc : op55793,grm560,5.0,,,10,1
ALS Vial : 125 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 07:00:38 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.865	4.301	406.9E6	363.5E6	3.387m	3.612
	Spiked Amount 40.000			Recovery	=	8.47%	9.03%
51) S	Decachlor...	9.702	10.643	304.7E6	342.3E6	3.867m	4.427m
	Spiked Amount 40.000			Recovery	=	9.67%	11.07%
	Target Compounds						
32)	AR1262-B	7.843	8.924	27356415	31233361	2.806m	3.413m
33)	AR1262-C	8.128	9.205	16888084	12558402	2.372	1.817m
34)	AR1262-D	8.461	9.414	39194919	51228470	2.566m	3.638m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

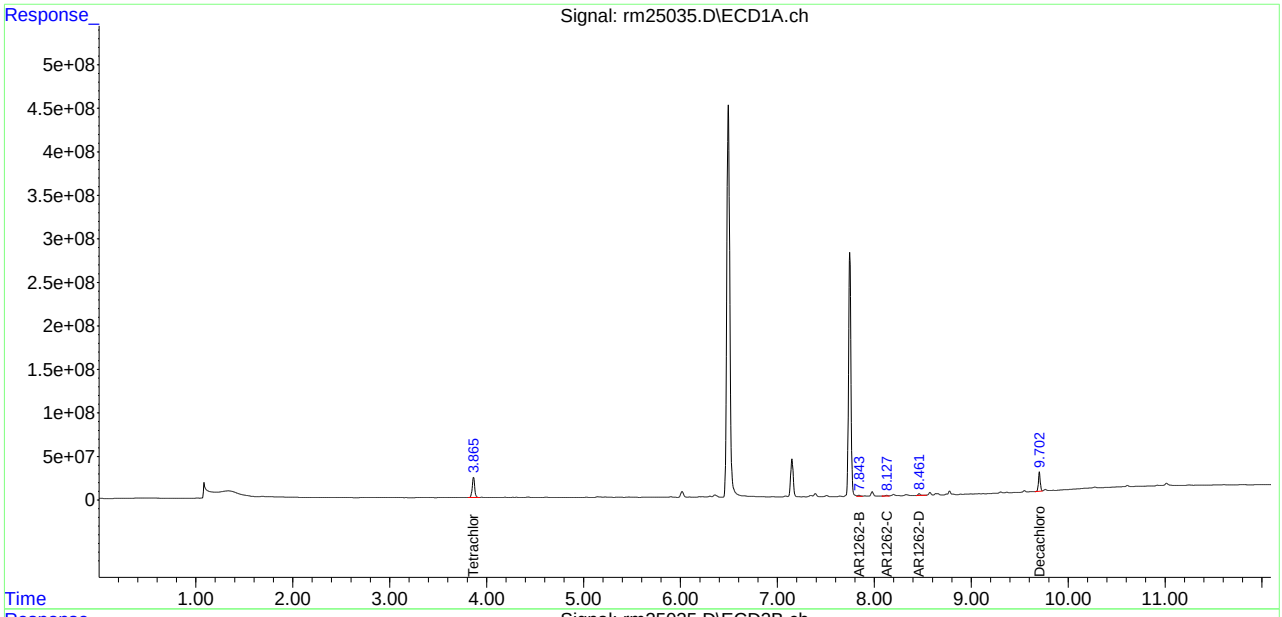
11.1.26 11

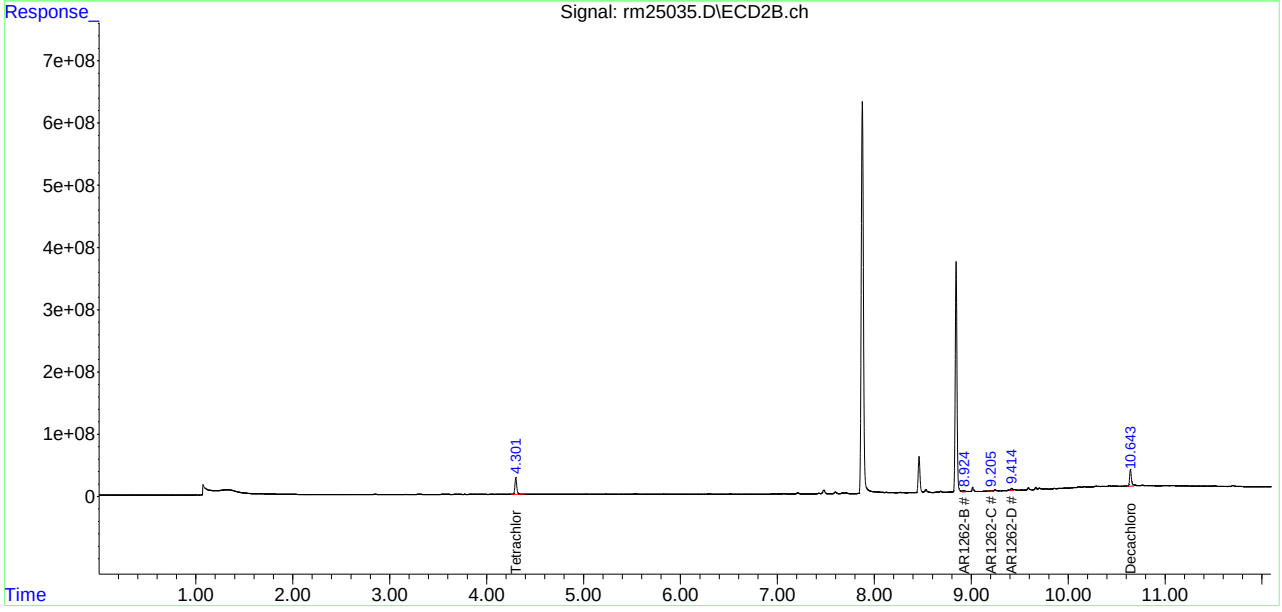
Quantitation Report (QT Reviewed)

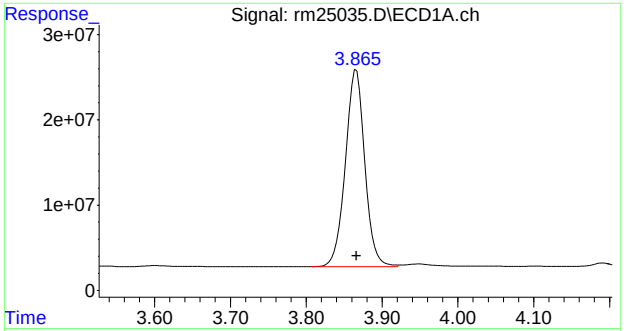
Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 08:40 pm
Operator : mahalial
Sample : jd91339-9 m
Misc : op55793,grm560,5.0,,,10,1
ALS Vial : 125 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 07:00:38 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

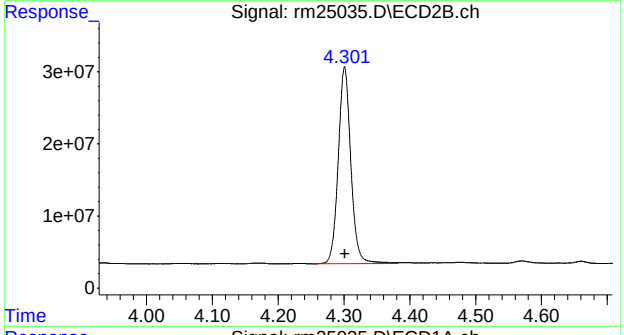






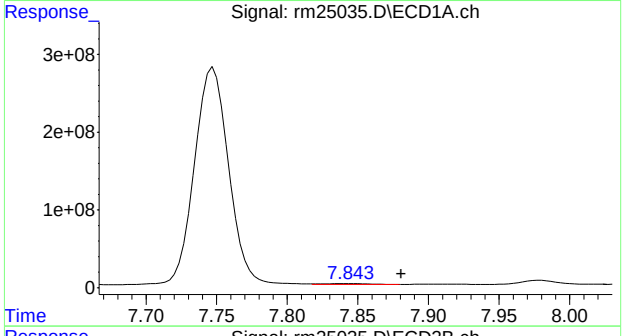
#1 Tetrachloro-m-xylene

R.T.: 3.865 min
Delta R.T.: -0.001 min
Response: 406874441
Conc: 3.39 ppb m



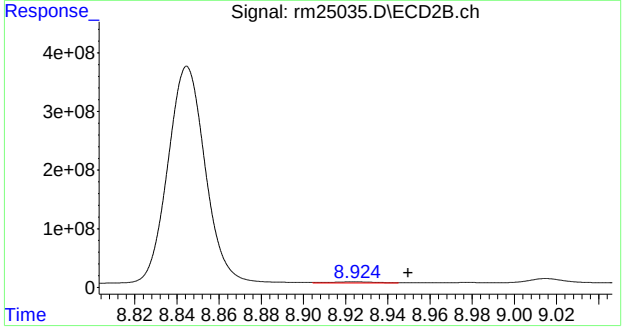
#1 Tetrachloro-m-xylene

R.T.: 4.301 min
Delta R.T.: 0.000 min
Response: 363479579
Conc: 3.61 ppb



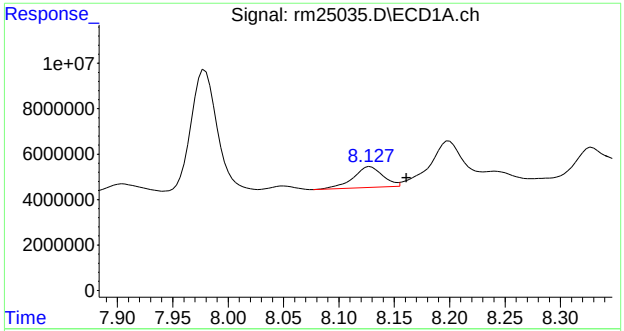
#32 AR1262-B

R.T.: 7.843 min
Delta R.T.: -0.038 min
Response: 27356415
Conc: 2.81 PPB m



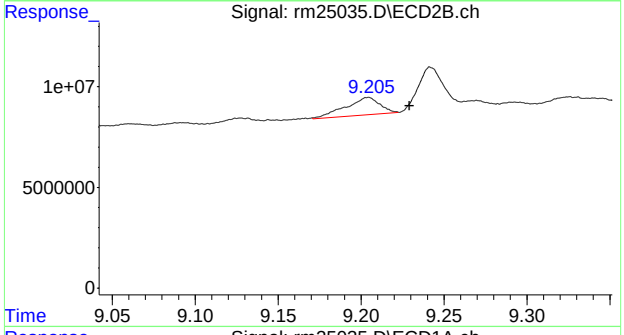
#32 AR1262-B

R.T.: 8.924 min
Delta R.T.: -0.025 min
Response: 31233361
Conc: 3.41 PPB m



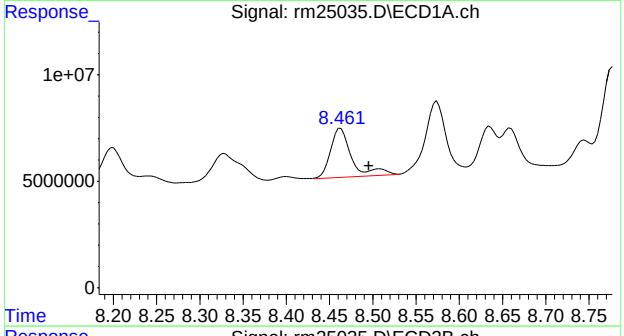
#33 AR1262-C

R.T.: 8.128 min
Delta R.T.: -0.032 min
Response: 16888084
Conc: 2.37 PPB



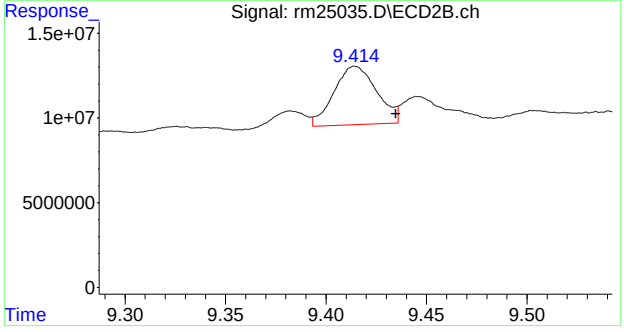
#33 AR1262-C

R.T.: 9.205 min
Delta R.T.: -0.025 min
Response: 12558402
Conc: 1.82 PPB m



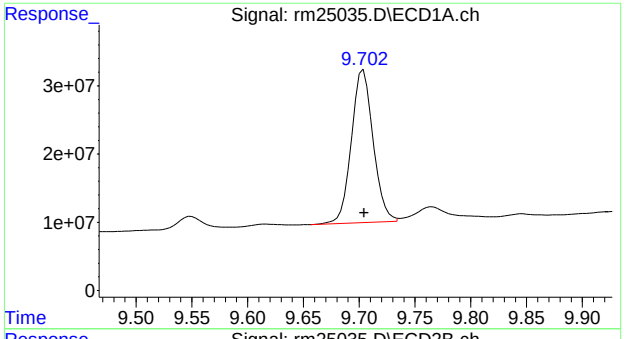
#34 AR1262-D

R.T.: 8.461 min
Delta R.T.: -0.034 min
Response: 39194919
Conc: 2.57 PPB m



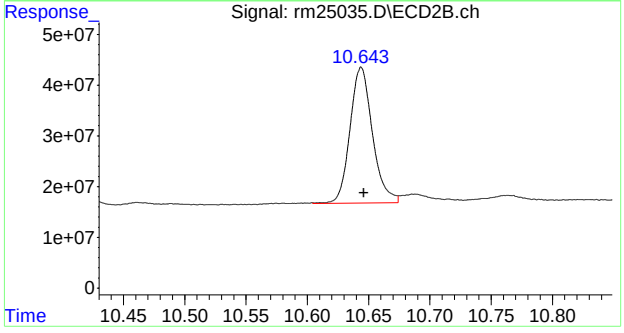
#34 AR1262-D

R.T.: 9.414 min
Delta R.T.: -0.021 min
Response: 51228470
Conc: 3.64 PPB m



#51 Decachlorobiphenyl

R.T.: 9.702 min
Delta R.T.: -0.002 min
Response: 304727196
Conc: 3.87 ppb m



#51 Decachlorobiphenyl

R.T.: 10.643 min
Delta R.T.: -0.003 min
Response: 342262833
Conc: 4.43 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco
07/02/24 03:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 08:58 pm
Operator : mahalial
Sample : jd91339-10 m
Misc : op55793,grm560,5.2,,,10,1
ALS Vial : 126 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 06:40:30 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.865	4.300	404.9E6	361.9E6	3.371m	3.596m
Spiked Amount 40.000			Recovery	=	8.43%	8.99%
51) S Decachlor...	9.702	10.644	289.7E6	313.4E6	3.676m	4.053m
Spiked Amount 40.000			Recovery	=	9.19%	10.13%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

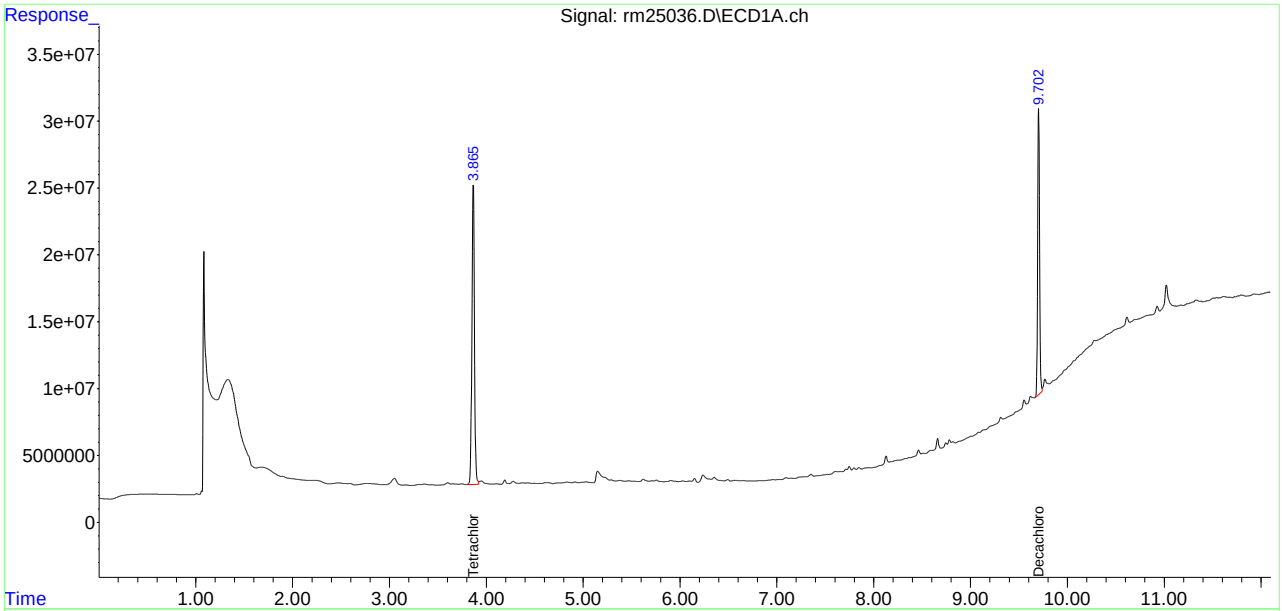
11.1.27
11

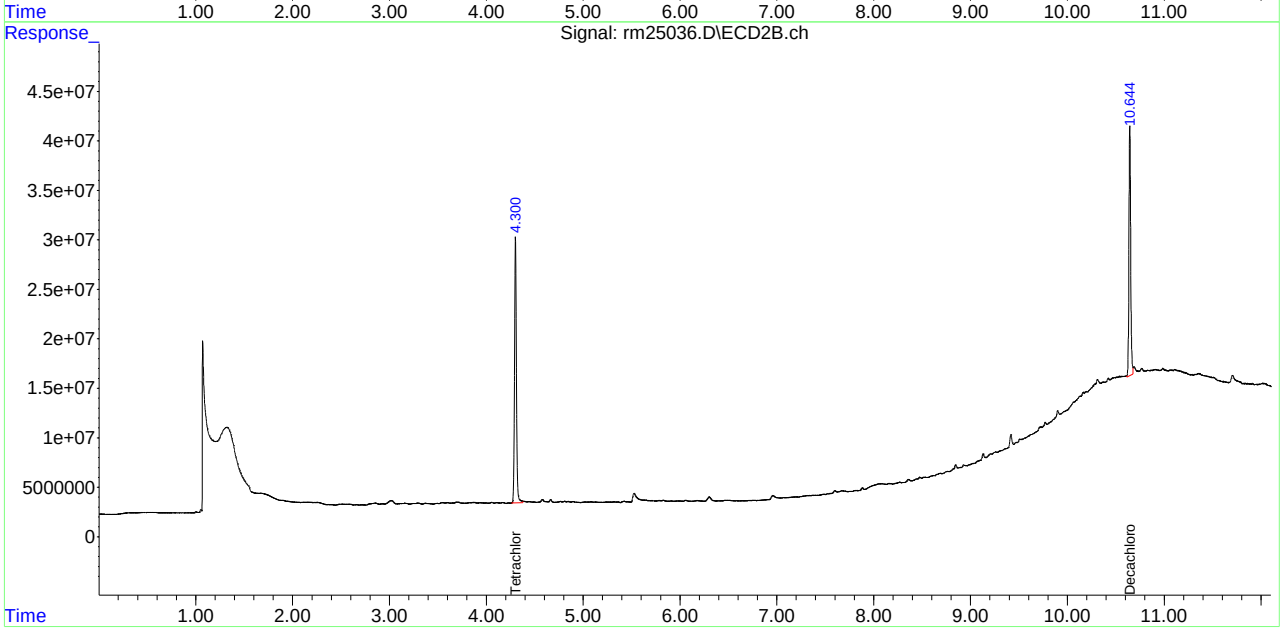
Quantitation Report (QT Reviewed)

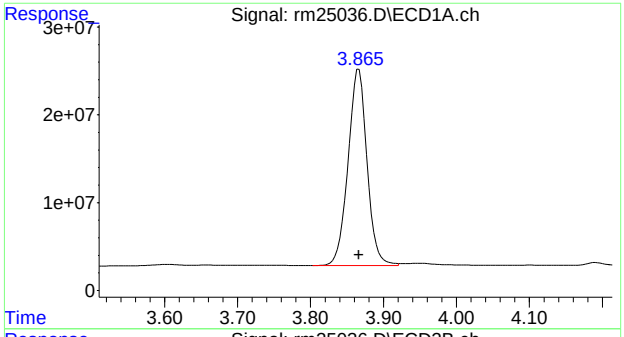
Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 08:58 pm
Operator : mahalial
Sample : jd91339-10 m
Misc : op55793,grm560,5.2,,,10,1
ALS Vial : 126 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 06:40:30 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

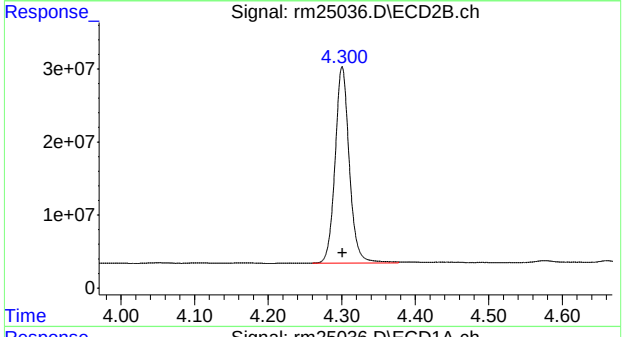






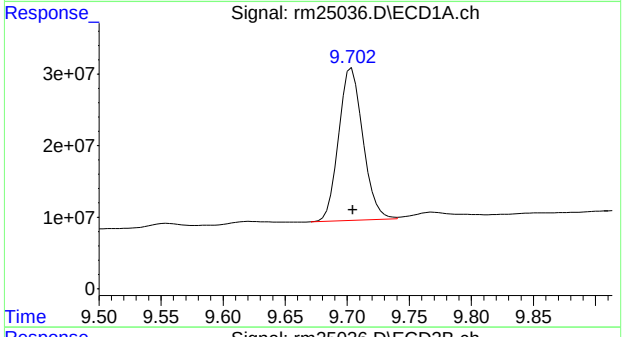
#1 Tetrachloro-m-xylene

R.T.: 3.865 min
Delta R.T.: -0.001 min
Response: 404931675
Conc: 3.37 ppb m



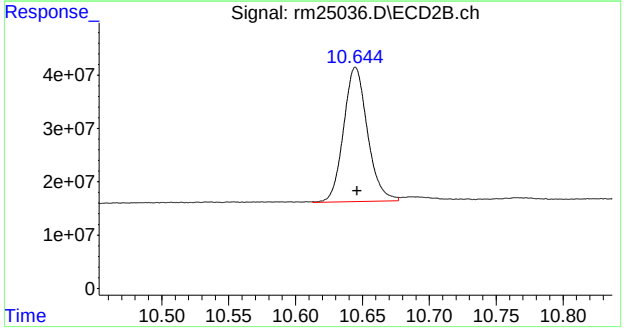
#1 Tetrachloro-m-xylene

R.T.: 4.300 min
Delta R.T.: 0.000 min
Response: 361932563
Conc: 3.60 ppb m



#51 Decachlorobiphenyl

R.T.: 9.702 min
Delta R.T.: -0.002 min
Response: 289687834
Conc: 3.68 ppb m



#51 Decachlorobiphenyl

R.T.: 10.644 min
Delta R.T.: -0.001 min
Response: 313367883
Conc: 4.05 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco
07/02/24 03:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 09:16 pm
Operator : mahalial
Sample : jd91339-11 m
Misc : op55793,grm560,5.3,,,10,1
ALS Vial : 127 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 06:43:56 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.865	4.300	399.8E6	357.5E6	3.329m	3.552m
Spiked Amount 40.000			Recovery	=	8.32%	8.88%
51) S Decachlor...	9.702	10.643	289.9E6	312.9E6	3.678m	4.047m
Spiked Amount 40.000			Recovery	=	9.20%	10.12%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

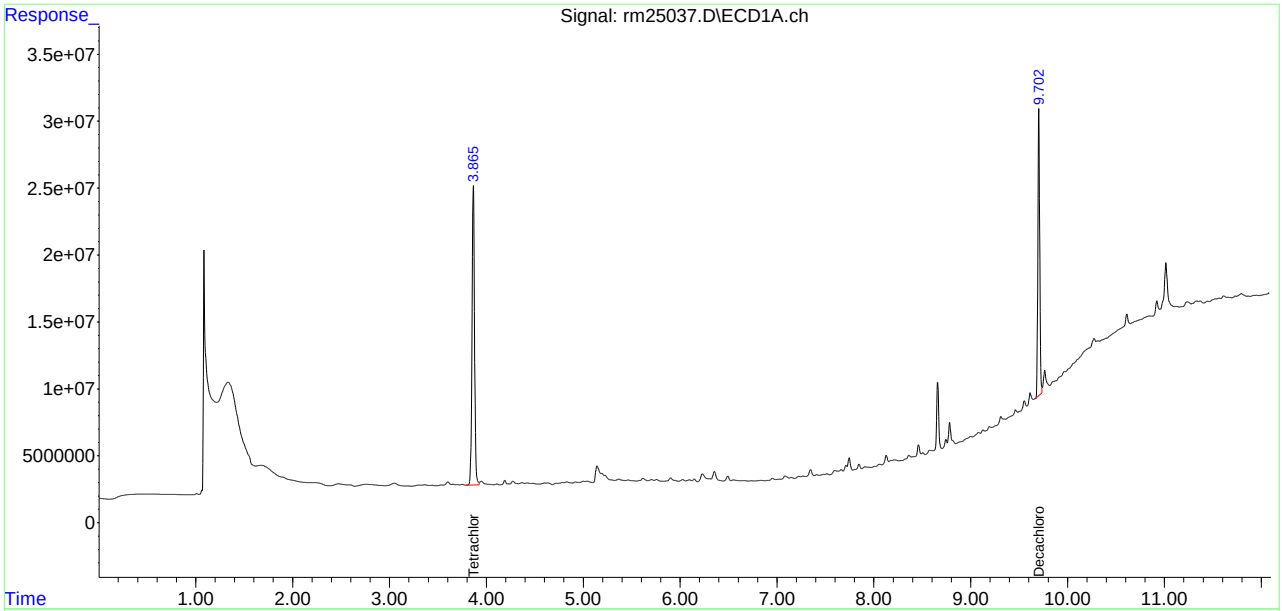
11.1.28
11

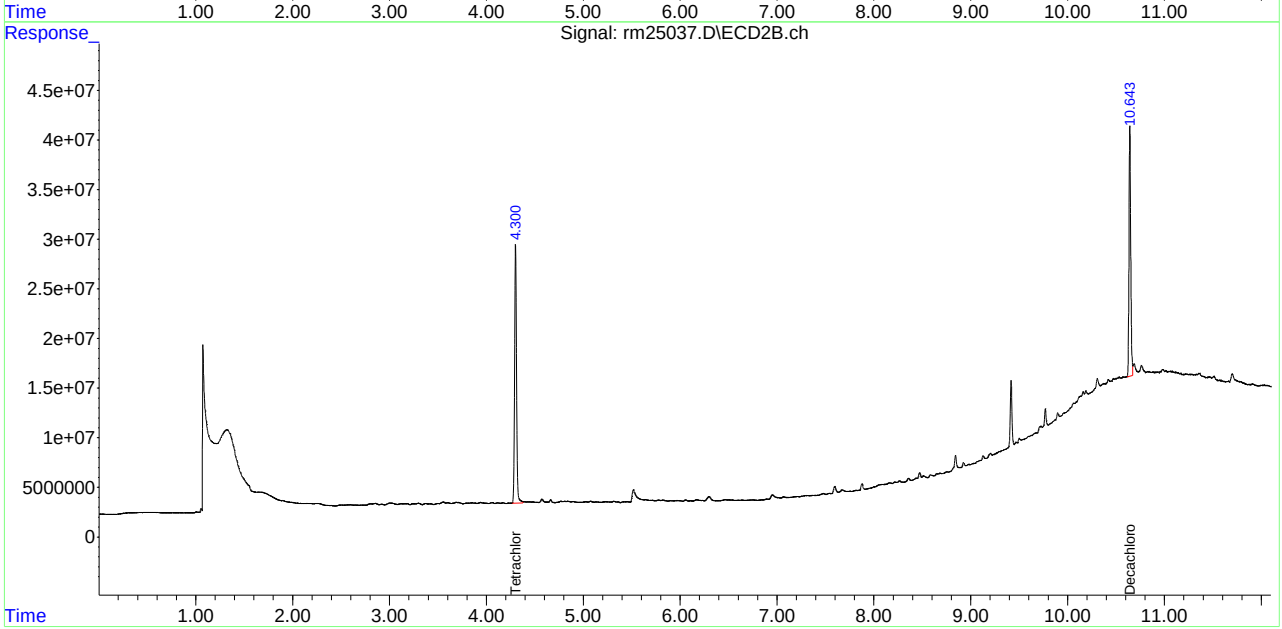
Quantitation Report (QT Reviewed)

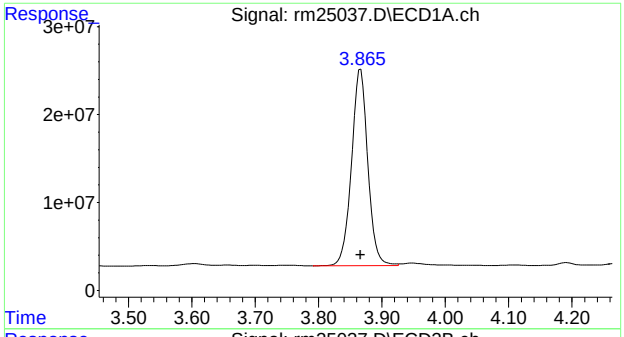
Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 09:16 pm
Operator : mahalial
Sample : jd91339-11 m
Misc : op55793,grm560,5.3,,,10,1
ALS Vial : 127 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 06:43:56 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

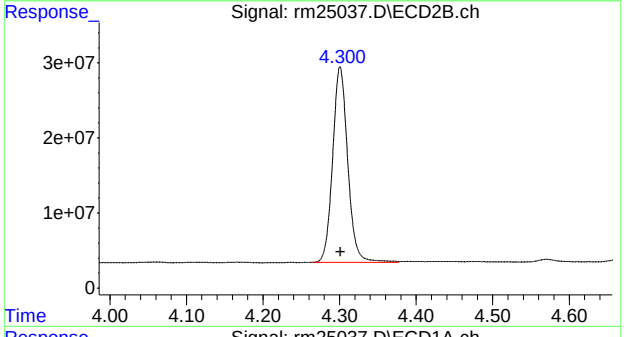






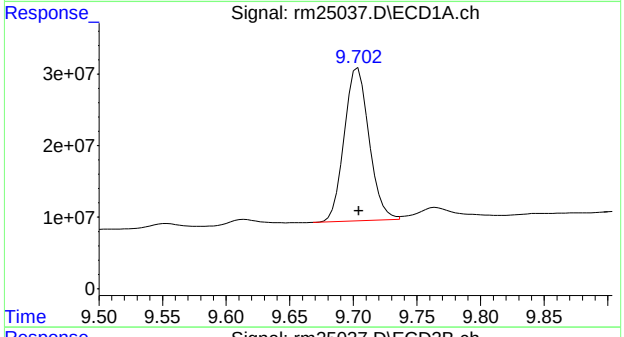
#1 Tetrachloro-m-xylene

R.T.: 3.865 min
Delta R.T.: 0.000 min
Response: 399843361
Conc: 3.33 ppb m



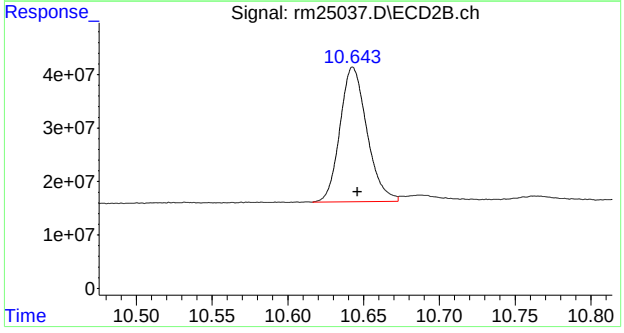
#1 Tetrachloro-m-xylene

R.T.: 4.300 min
Delta R.T.: 0.000 min
Response: 357509855
Conc: 3.55 ppb m



#51 Decachlorobiphenyl

R.T.: 9.702 min
Delta R.T.: -0.002 min
Response: 289863992
Conc: 3.68 ppb m



#51 Decachlorobiphenyl

R.T.: 10.643 min
Delta R.T.: -0.003 min
Response: 312877811
Conc: 4.05 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/03/24 08:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\chrisc2\grl401\
Data File : RL18047.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jul 2024 05:07 pm
Operator : mahalial
Sample : jd91339-13 m
Misc : op55826,grl401,5.4,,,10,1
ALS Vial : 112 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 06:23:41 2024
Quant Method : C:\msdchem\1\data\chrisc2\grl401\pcblvigcrl343.m
Quant Title :
QLast Update : Wed Jul 03 05:36:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.919	4.323	700.6E6	586.5E6	3.214m	3.896m
Spiked Amount 40.000			Recovery	=	8.04%	9.74%
51) S Decachlor...	9.823	10.750	490.1E6	440.3E6	3.338	3.928m
Spiked Amount 40.000			Recovery	=	8.34%	9.82%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

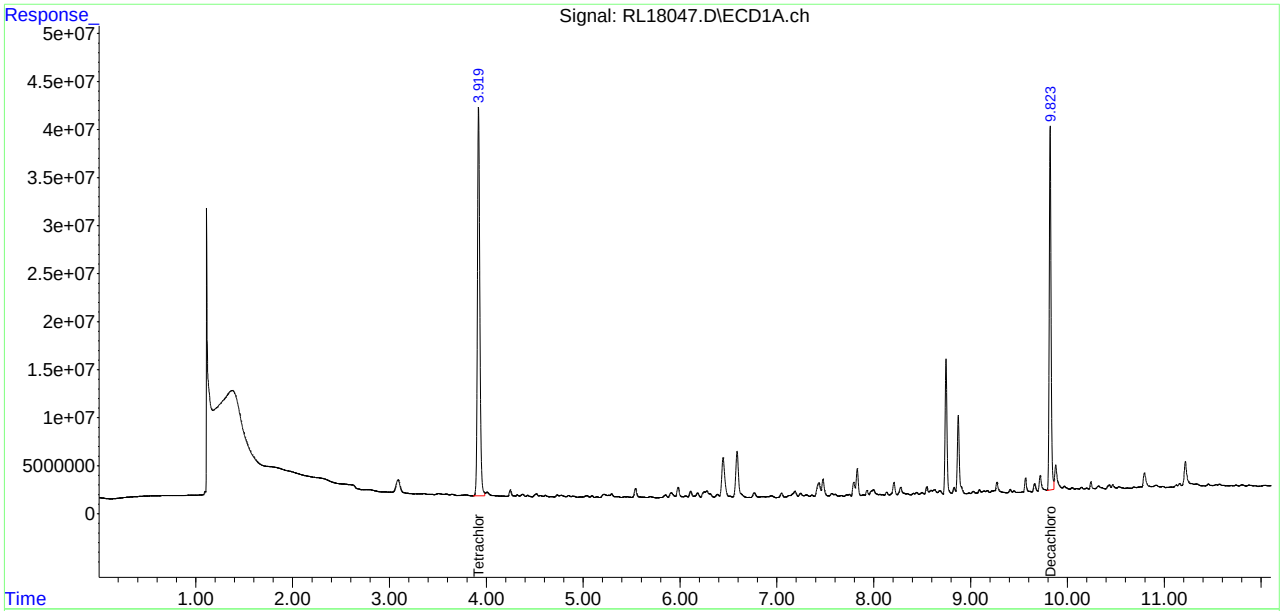
11.1.29
11

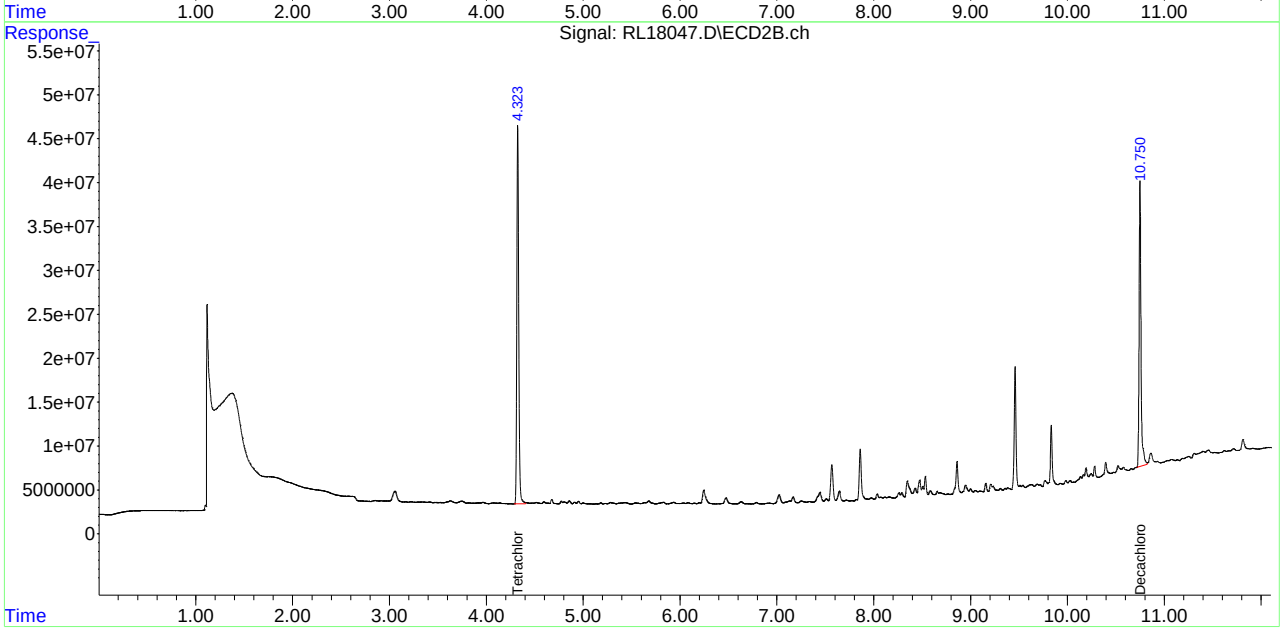
Quantitation Report (QT Reviewed)

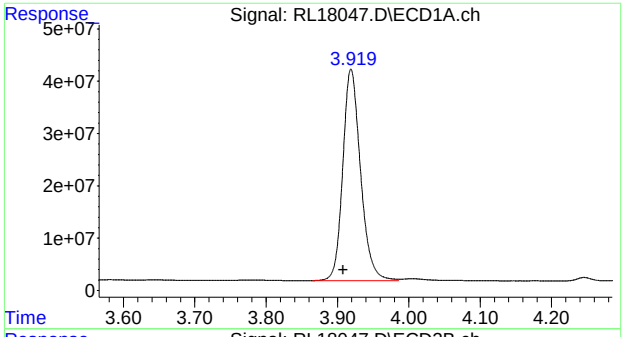
Data Path : C:\msdchem\1\data\chrisc2\grl401\
Data File : RL18047.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jul 2024 05:07 pm
Operator : mahalial
Sample : jd91339-13 m
Misc : op55826,grl401,5.4,,,10,1
ALS Vial : 112 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 06:23:41 2024
Quant Method : C:\msdchem\1\data\chrisc2\grl401\pcblvigcrl343.m
Quant Title :
QLast Update : Wed Jul 03 05:36:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

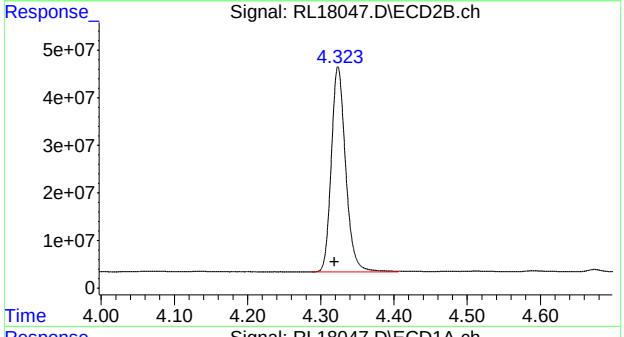






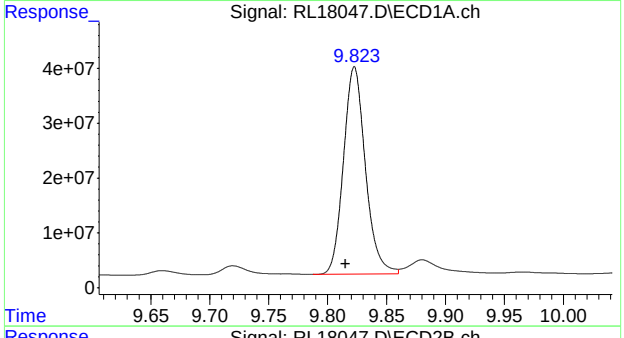
#1 Tetrachloro-m-xylene

R.T.: 3.919 min
Delta R.T.: 0.011 min
Response: 700620080
Conc: 3.21 ppb m



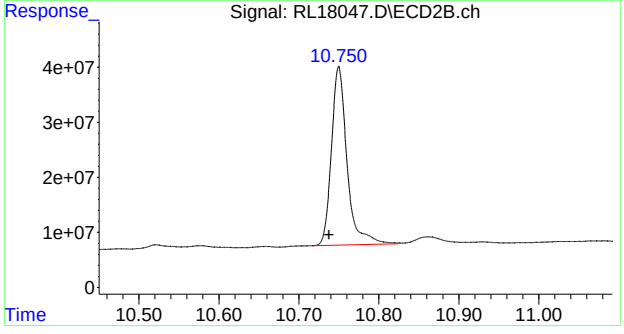
#1 Tetrachloro-m-xylene

R.T.: 4.323 min
Delta R.T.: 0.004 min
Response: 586513737
Conc: 3.90 ppb m



#51 Decachlorobiphenyl

R.T.: 9.823 min
Delta R.T.: 0.008 min
Response: 490057718
Conc: 3.34 ppb



#51 Decachlorobiphenyl

R.T.: 10.750 min
Delta R.T.: 0.012 min
Response: 440282154
Conc: 3.93 ppb m

11.1.29
11

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
07/03/24 08:28

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\chrisc2\grl401\
Data File : RL18048.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jul 2024 05:24 pm
Operator : mahalial
Sample : jd91339-14 m
Misc : op55826,grl401,5.1,,,10,1
ALS Vial : 113 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 06:34:07 2024
Quant Method : C:\msdchem\1\data\chrisc2\grl401\pcblvigcrl343.m
Quant Title :
QLast Update : Wed Jul 03 05:36:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.918	4.323	710.0E6	580.6E6	3.258	3.856
	Spiked Amount	40.000		Recovery	=	8.14%	9.64%
51) S	Decachlor...	9.820	10.744	497.2E6	415.9E6	3.387	3.711m
	Spiked Amount	40.000		Recovery	=	8.47%	9.28%
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

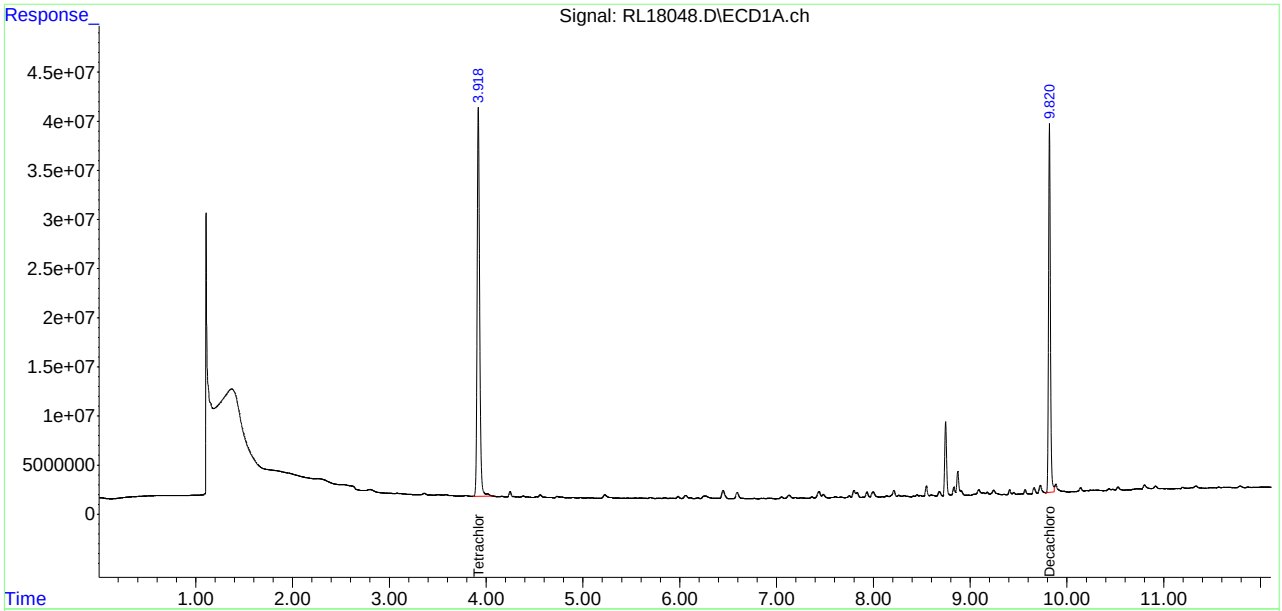
11.1.30 11

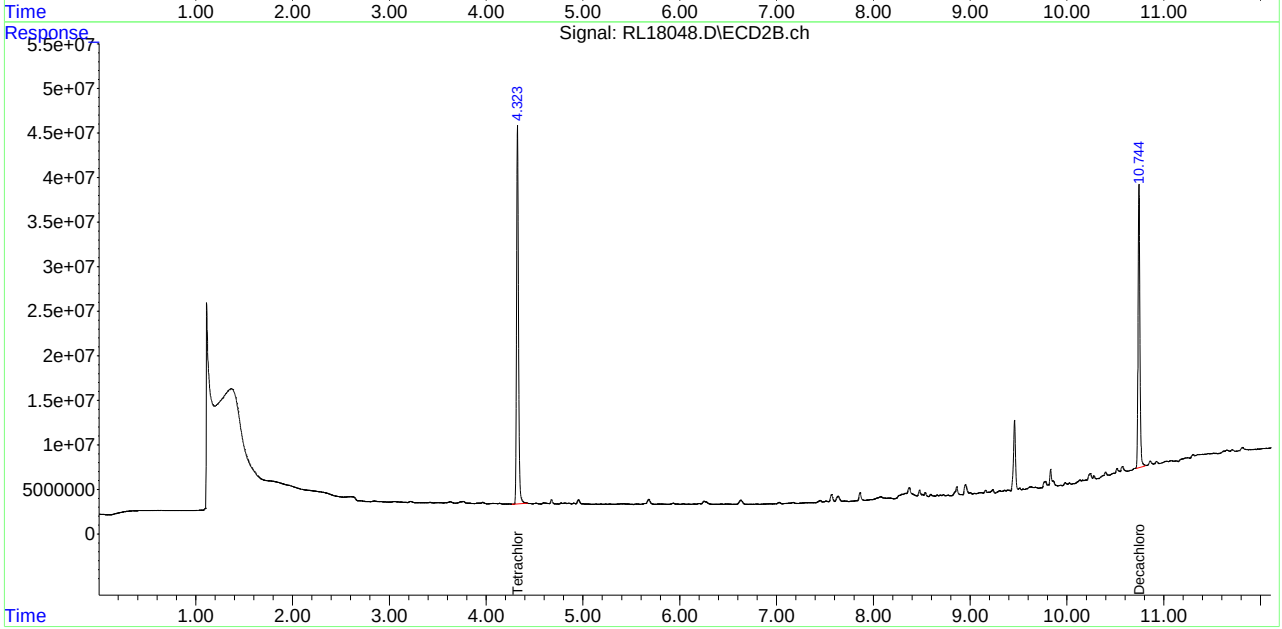
Quantitation Report (QT Reviewed)

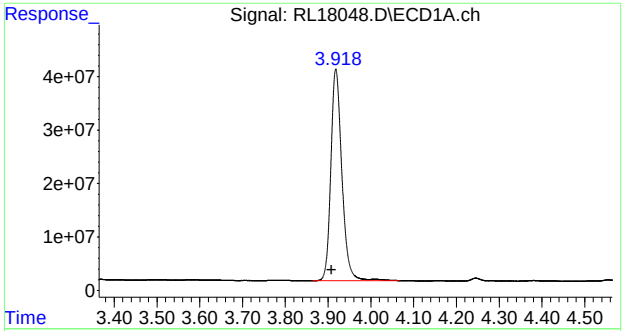
Data Path : C:\msdchem\1\data\chrisc2\grl401\
Data File : RL18048.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jul 2024 05:24 pm
Operator : mahalial
Sample : jd91339-14 m
Misc : op55826,grl401,5.1,,,10,1
ALS Vial : 113 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 06:34:07 2024
Quant Method : C:\msdchem\1\data\chrisc2\grl401\pcblvigcrl343.m
Quant Title :
QLast Update : Wed Jul 03 05:36:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

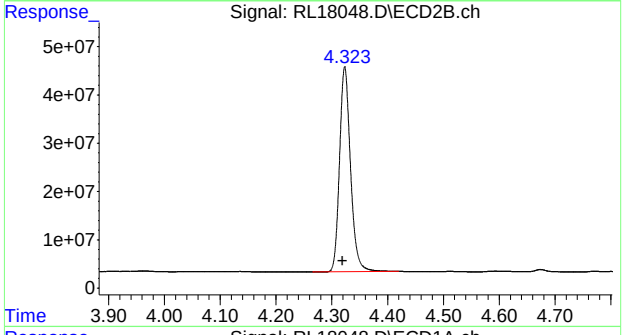






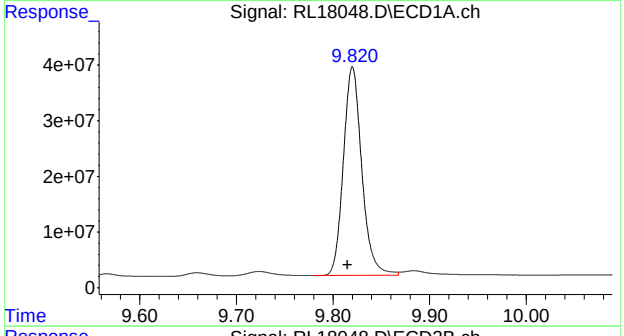
#1 Tetrachloro-m-xylene

R.T.: 3.918 min
Delta R.T.: 0.010 min
Response: 710036471
Conc: 3.26 ppb



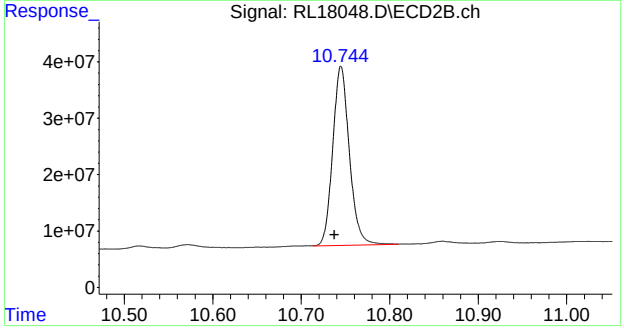
#1 Tetrachloro-m-xylene

R.T.: 4.323 min
Delta R.T.: 0.005 min
Response: 580582973
Conc: 3.86 ppb



#51 Decachlorobiphenyl

R.T.: 9.820 min
Delta R.T.: 0.005 min
Response: 497233821
Conc: 3.39 ppb



#51 Decachlorobiphenyl

R.T.: 10.744 min
Delta R.T.: 0.007 min
Response: 415906027
Conc: 3.71 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/02/24 10:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\1G7071\
Data File : 1g197568.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01-Jul-24, 23:33:11
Operator : christp
Sample : op55806a-mb1 (Sig #1); op55806-mb1 (Sig #2)
Misc : op55806a,g1g7071,1000,,,5,1
ALS Vial : 77 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 09:03:51 2024
Quant Method : C:\msdchem\1\data\nazaryne\1G7071\1PST6859a.M
Quant Title : PEST/PCB
QLast Update : Tue Jul 02 08:46:46 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.059	1.030	432.1E6	423.6E6	50.000	50.000
27) I	1-bromo-2...	1.059	1.030	432.1E6	423.6E6	50.000	50.000
33) I	1-bromo-2...	1.059	1.030	432.1E6	423.6E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.495	1.604	651.2E6	425.9E6	78.692m	80.293m
	Spiked Amount 40.000	Range 30 - 150		Recovery =		196.73%#	200.73%#
26) SA	Decachlor...	8.168	9.731	681.1E6	676.0E6	80.771m	74.932
	Spiked Amount 40.000			Recovery =		201.93%	187.33%
	Target Compounds						
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

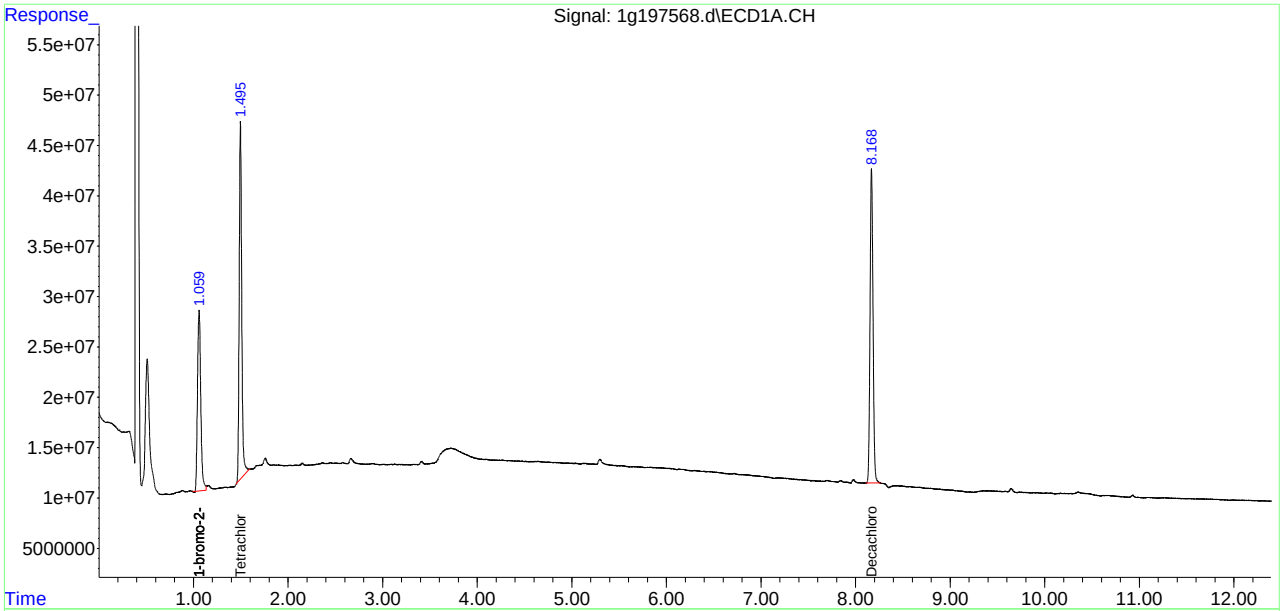
11.2.1 11

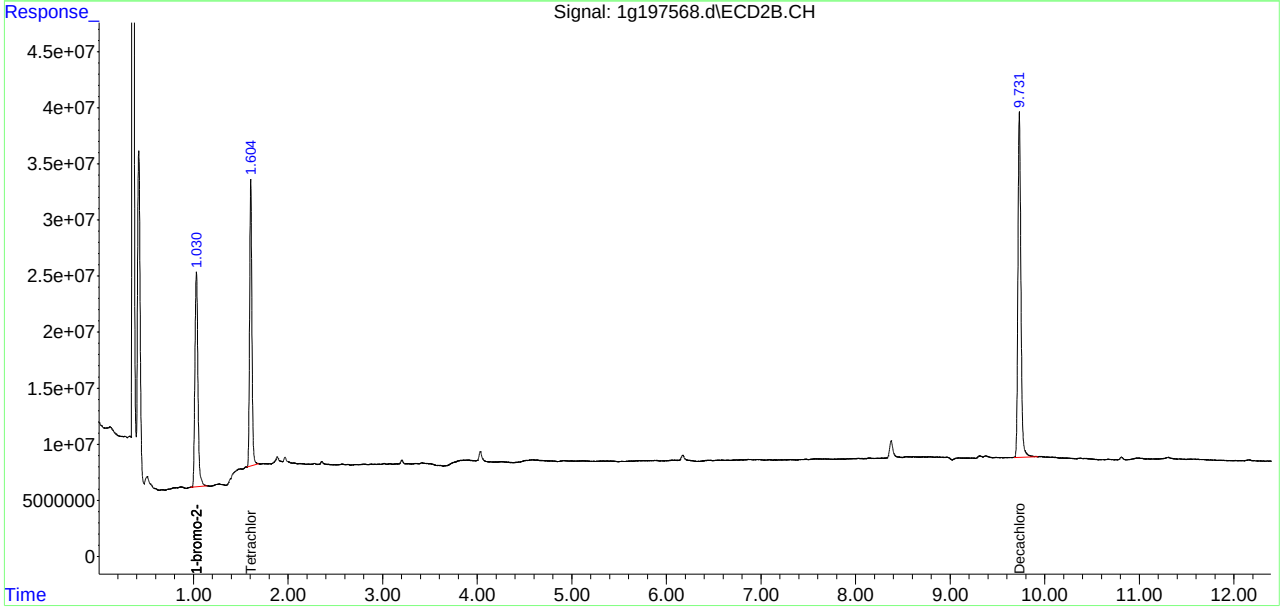
Quantitation Report (QT Reviewed)

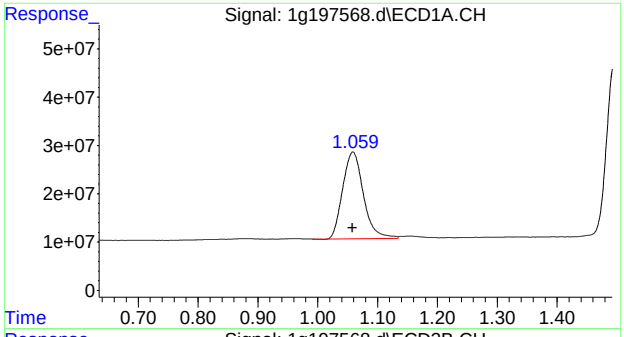
Data Path : C:\msdchem\1\data\nazaryne\1G7071\
Data File : 1g197568.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01-Jul-24, 23:33:11
Operator : christp
Sample : op55806a-mb1 (Sig #1); op55806-mb1 (Sig #2)
Misc : op55806a,g1g7071,1000,,,5,1
ALS Vial : 77 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 09:03:51 2024
Quant Method : C:\msdchem\1\data\nazaryne\1G7071\1PST6859a.M
Quant Title : PEST/PCB
QLast Update : Tue Jul 02 08:46:46 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

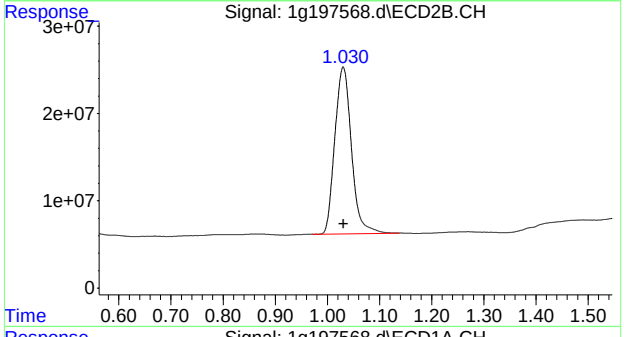






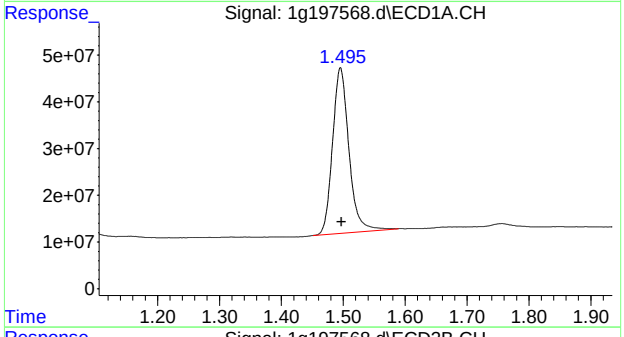
#1 1-bromo-2-nitrobenzene

R.T.: 1.059 min
Delta R.T.: 0.000 min
Response: 432102254
Conc: 50.00 PPB



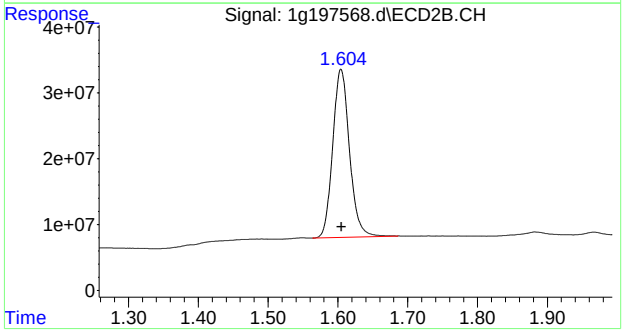
#1 1-bromo-2-nitrobenzene

R.T.: 1.030 min
Delta R.T.: 0.000 min
Response: 423570652
Conc: 50.00 PPB



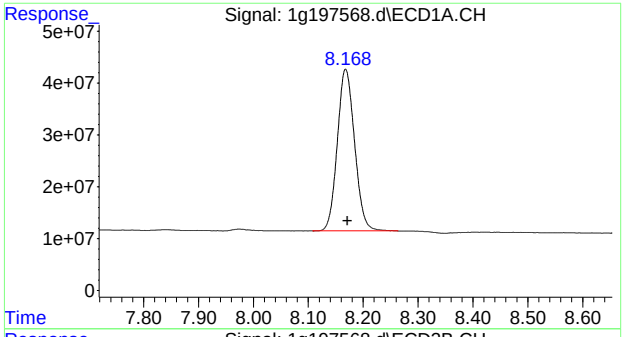
#2 Tetrachloro-m-xylene

R.T.: 1.495 min
Delta R.T.: -0.001 min
Response: 651167884
Conc: 78.69 PPB m



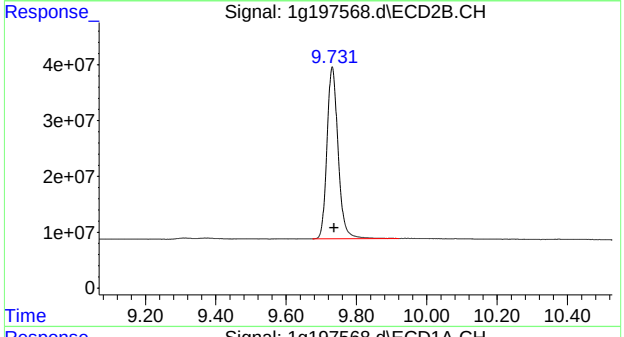
#2 Tetrachloro-m-xylene

R.T.: 1.604 min
Delta R.T.: 0.000 min
Response: 425868204
Conc: 80.29 PPB m



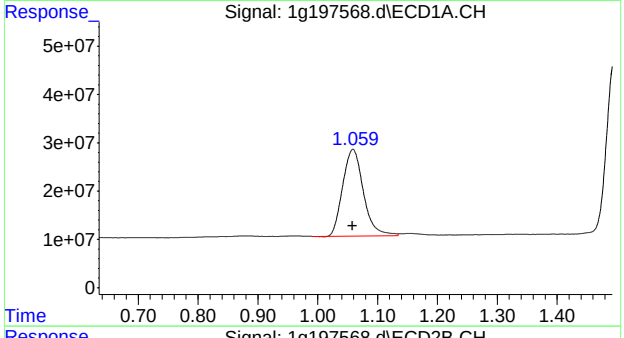
#26 Decachlorobiphenyl

R.T.: 8.168 min
Delta R.T.: -0.003 min
Response: 681070348
Conc: 80.77 PPB m



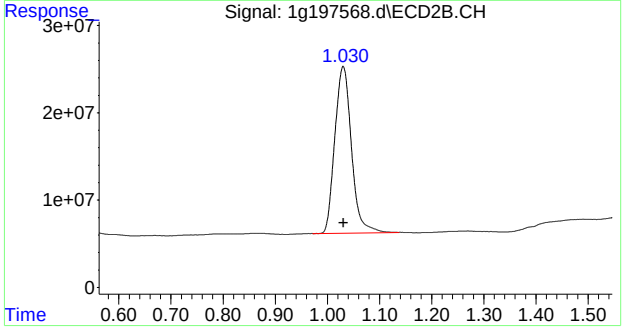
#26 Decachlorobiphenyl

R.T.: 9.731 min
Delta R.T.: -0.006 min
Response: 675968708
Conc: 74.93 PPB



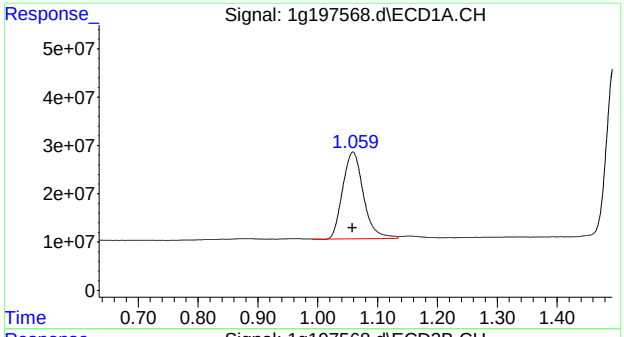
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.059 min
Delta R.T.: 0.000 min
Response: 432102254
Conc: 50.00 PPB



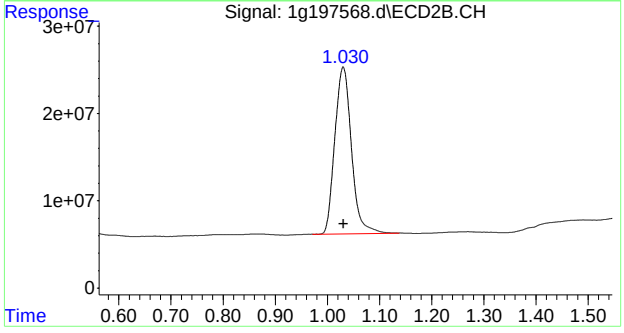
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.030 min
Delta R.T.: 0.000 min
Response: 423570652
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.059 min
Delta R.T.: 0.000 min
Response: 432102254
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.030 min
Delta R.T.: 0.000 min
Response: 423570652
Conc: 50.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Sarah Cruz
07/02/24 00:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\anndg\3G5198\
Data File : 3G141839.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01-Jul-24, 17:14:23
Operator : mahalial
Sample : op55807-mb1
Misc : op55807,g3g5198,1000,,,5,1
ALS Vial : 74 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 02:02:50 2024
Quant Method : C:\msdchem\1\data\anndg\3G5198\3PCB5160.M
Quant Title :
QLast Update : Tue Jul 02 01:48:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.453	4.062	620.2E6	1473.3E6	78.497	81.123
Spiked Amount 40.000			Recovery	=	196.24%	202.81%
51) S Decachlor...	10.970	12.582	466.8E6	989.1E6	70.141	67.553m
Spiked Amount 40.000			Recovery	=	175.35%	168.88%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

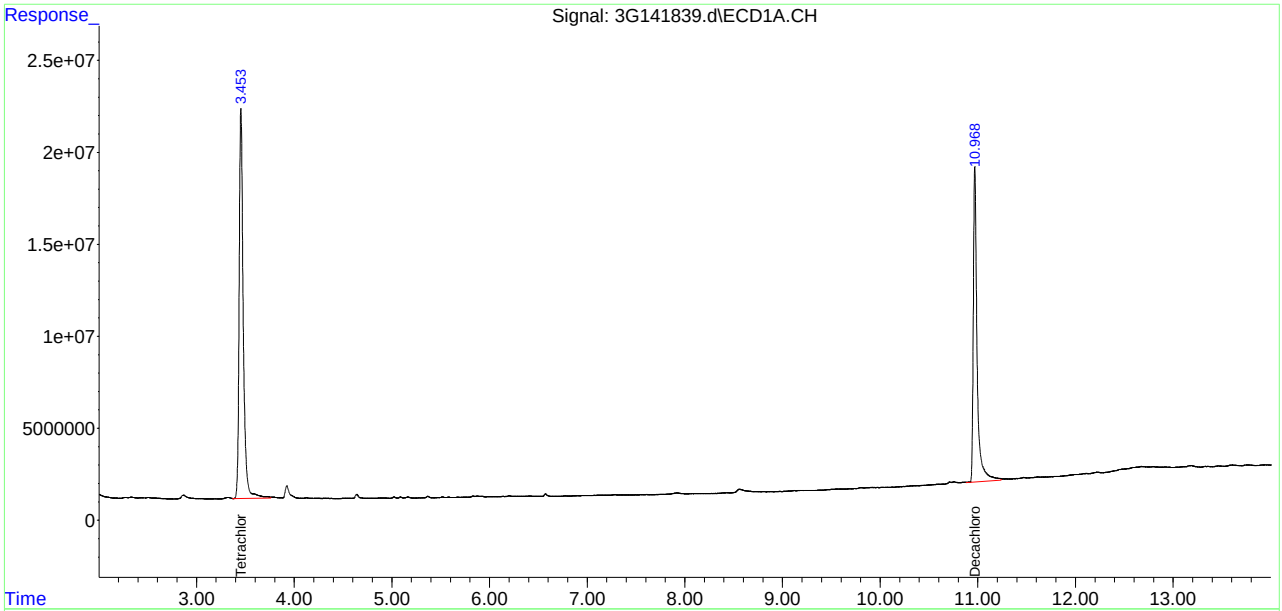
11.2.2
11

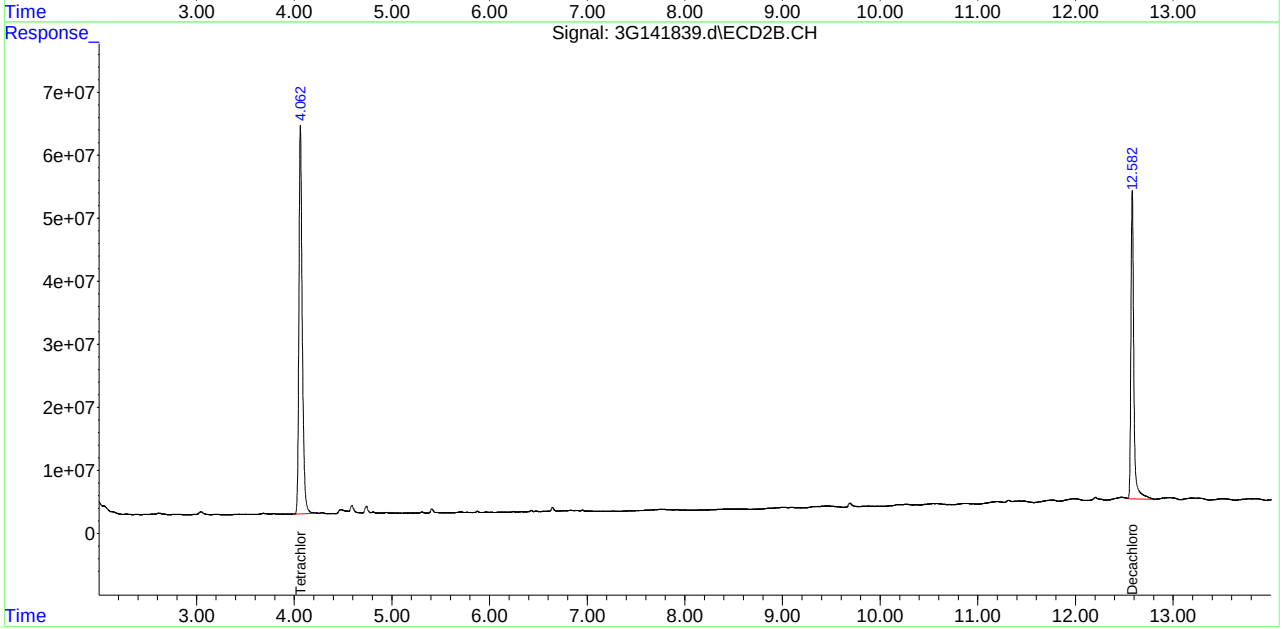
Quantitation Report (QT Reviewed)

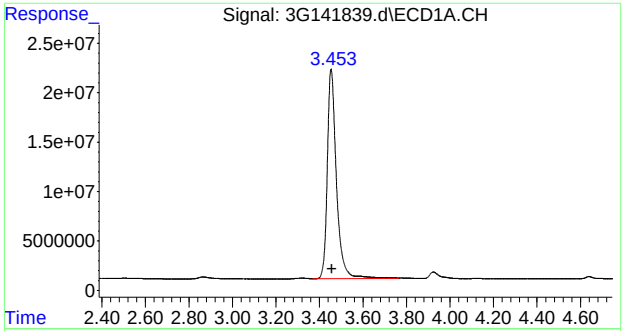
Data Path : C:\msdchem\1\data\anndg\3G5198\
Data File : 3G141839.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01-Jul-24, 17:14:23
Operator : mahalial
Sample : op55807-mb1
Misc : op55807,g3g5198,1000,,,5,1
ALS Vial : 74 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 02:02:50 2024
Quant Method : C:\msdchem\1\data\anndg\3G5198\3PCB5160.M
Quant Title :
QLast Update : Tue Jul 02 01:48:33 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

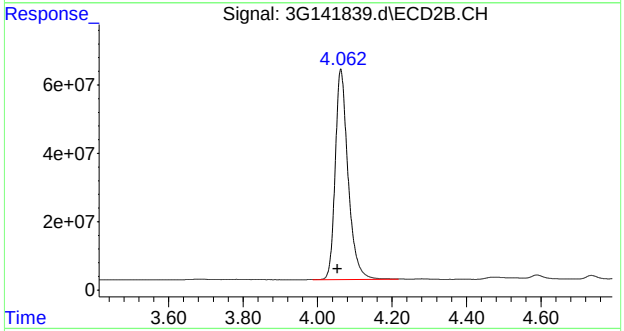






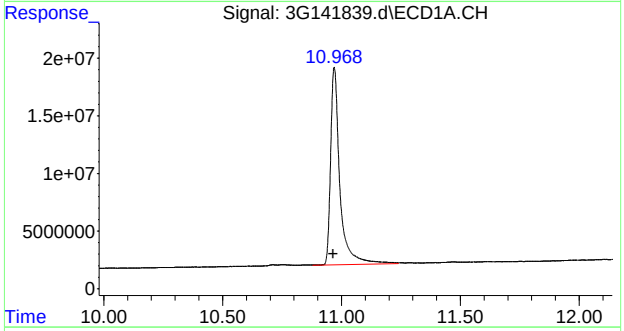
#1 Tetrachloro-m-xylene

R.T.: 3.453 min
Delta R.T.: -0.003 min
Response: 620154180
Conc: 78.50 ppb



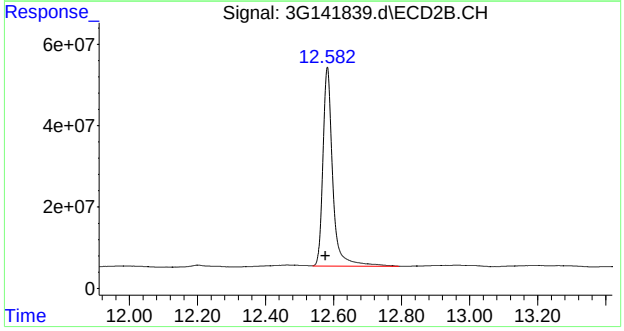
#1 Tetrachloro-m-xylene

R.T.: 4.062 min
Delta R.T.: 0.010 min
Response: 1473292969
Conc: 81.12 ppb



#51 Decachlorobiphenyl

R.T.: 10.970 min
Delta R.T.: 0.005 min
Response: 466779320
Conc: 70.14 ppb



#51 Decachlorobiphenyl

R.T.: 12.582 min
Delta R.T.: 0.006 min
Response: 989076370
Conc: 67.55 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 07/02/24 15:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738711.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 2:45 pm
Operator : mahalial
Sample : op55792-mb1 m
Misc : op55792,g4g4376,5.0,,,10,1
ALS Vial : 78 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 15:11:14 2024
Quant Method : C:\msdchem\1\methods\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Tue Jul 02 13:30:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	5.804	6.082	966.4E6	5186.3E6	5.000	5.000
27) I	1-bromo-2...	5.804	6.082	966.4E6	5186.3E6	5.000	5.000
33) I	1-bromo-2...	5.804	6.082	966.4E6	5186.3E6	5.000	5.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	6.499	6.999	526.3E6	3604.9E6	3.189m	3.479
	Spiked Amount 40.000	Range 30 - 150		Recovery =		7.97%#	8.70%#
26) SA	Decachlor...	13.984	15.603	630.6E6	1980.2E6	3.592	3.456m
	Spiked Amount 40.000			Recovery =		8.98%	8.64%
	Target Compounds						
	SemiQuant Compounds - Not Calibrated on this Instrument						

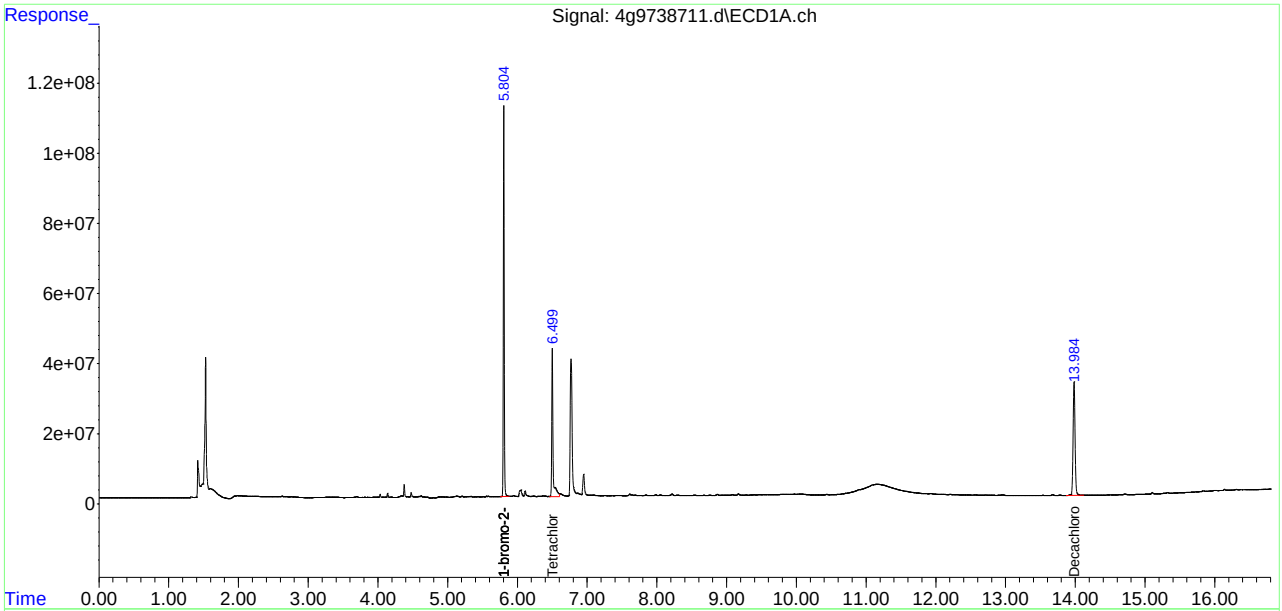
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

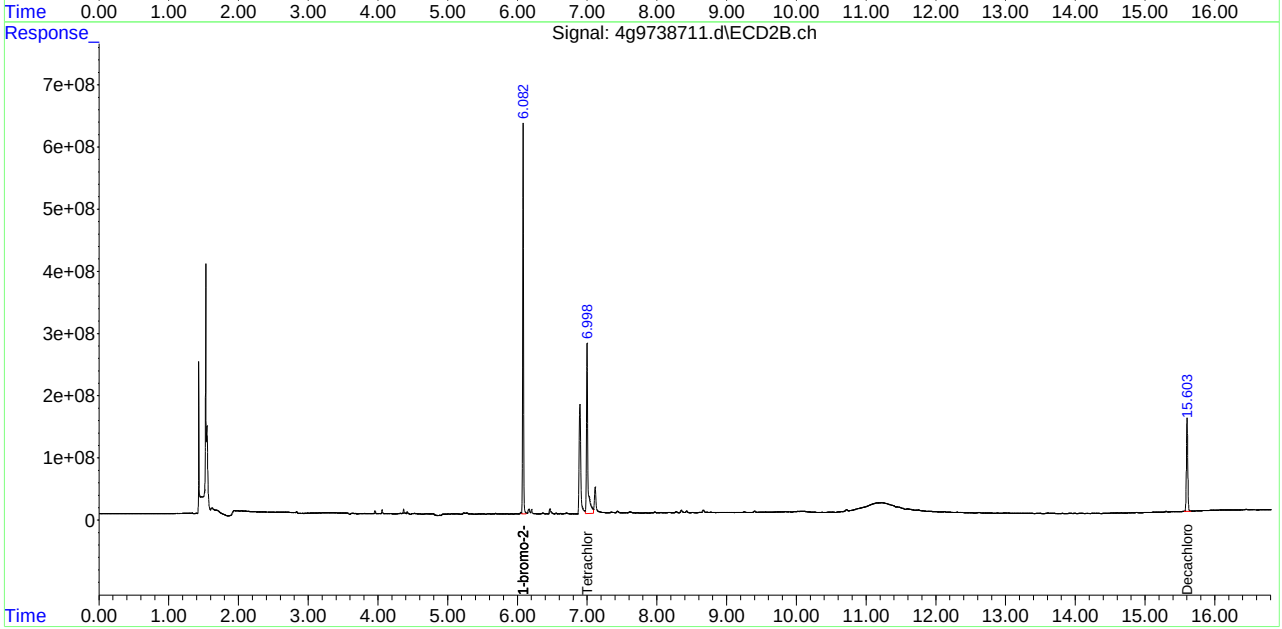
Quantitation Report (QT Reviewed)

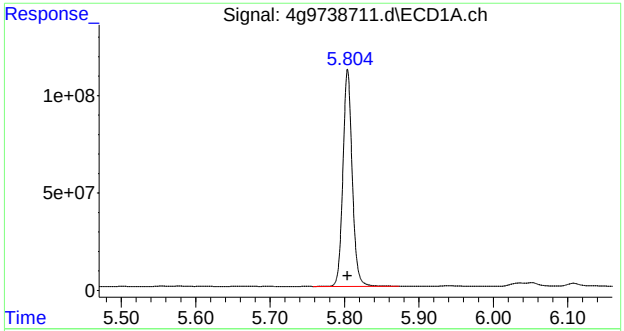
Data Path : C:\msdchem\1\data\g4g4376\
Data File : 4g9738711.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 2:45 pm
Operator : mahalial
Sample : op55792-mb1 m
Misc : op55792,g4g4376,5.0,,,10,1
ALS Vial : 78 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 15:11:14 2024
Quant Method : C:\msdchem\1\methods\4pstlvi4352.M
Quant Title : PEST/PCB
QLast Update : Tue Jul 02 13:30:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

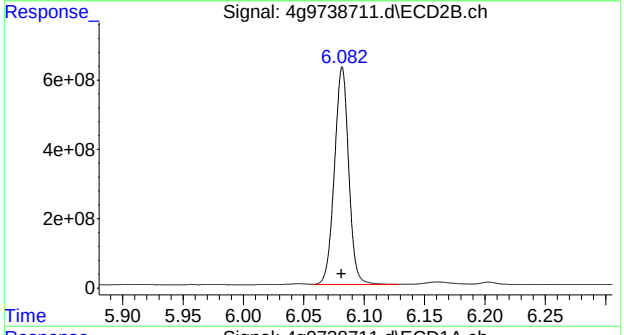






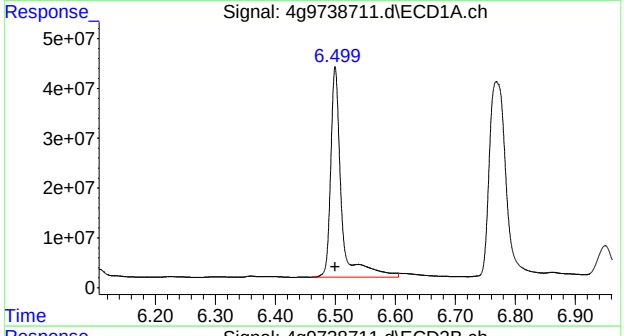
#1 1-bromo-2-nitrobenzene

R.T.: 5.804 min
Delta R.T.: 0.000 min
Response: 966434062
Conc: 5.00 PPB



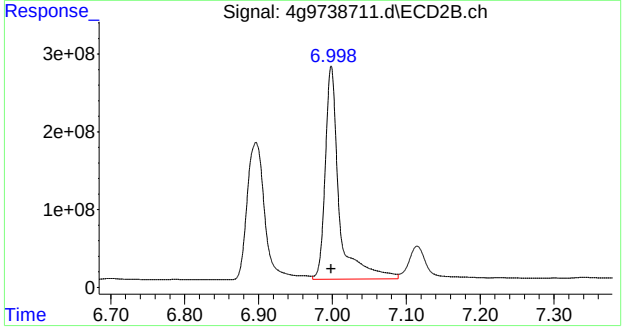
#1 1-bromo-2-nitrobenzene

R.T.: 6.082 min
Delta R.T.: 0.000 min
Response: 5186334623
Conc: 5.00 PPB



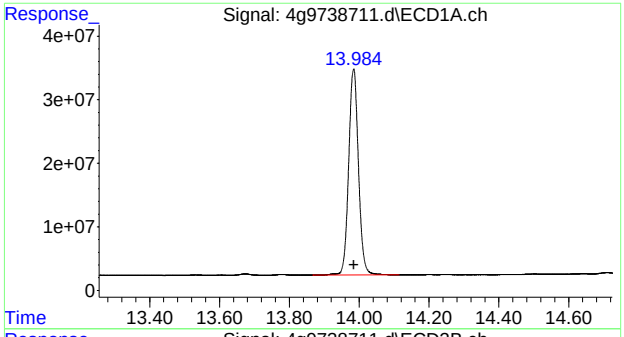
#2 Tetrachloro-m-xylene

R.T.: 6.499 min
Delta R.T.: 0.000 min
Response: 526300802
Conc: 3.19 PPB m



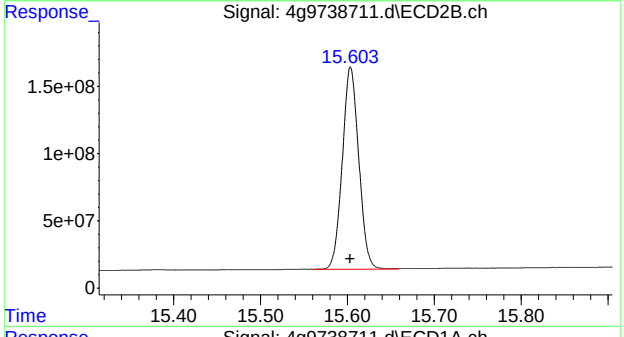
#2 Tetrachloro-m-xylene

R.T.: 6.999 min
Delta R.T.: 0.000 min
Response: 3604892749
Conc: 3.48 PPB



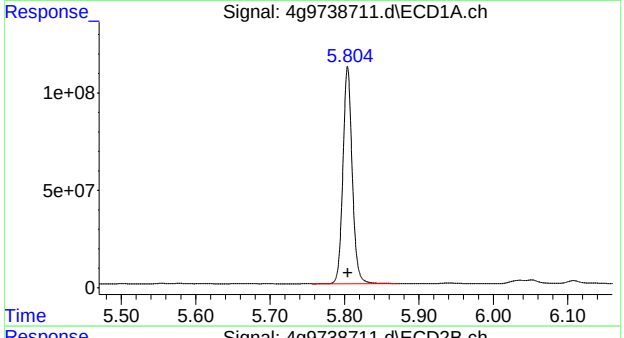
#26 Decachlorobiphenyl

R.T.: 13.984 min
Delta R.T.: 0.000 min
Response: 630611958
Conc: 3.59 PPB



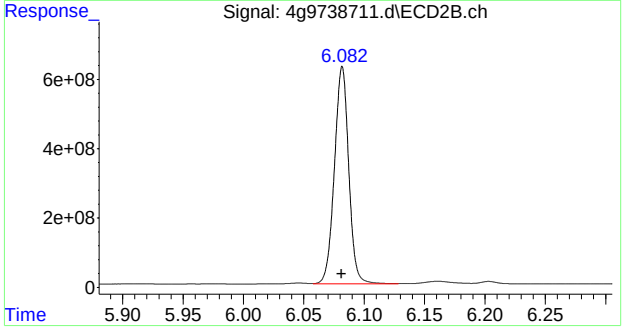
#26 Decachlorobiphenyl

R.T.: 15.603 min
Delta R.T.: 0.000 min
Response: 1980243366
Conc: 3.46 PPB m



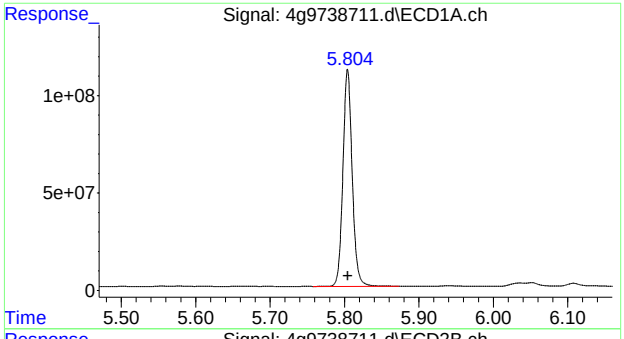
#27 1-bromo-2-nitrobenzeneA

R.T.: 5.804 min
Delta R.T.: 0.000 min
Response: 966434062
Conc: 5.00 PPB



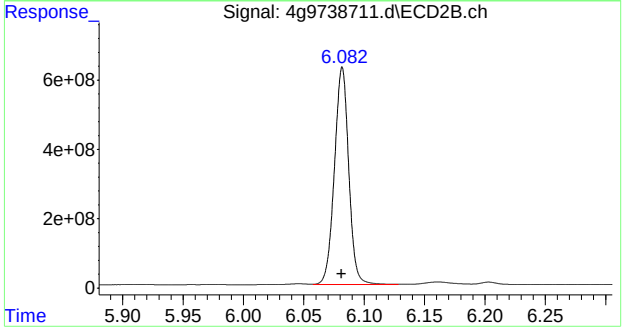
#27 1-bromo-2-nitrobenzeneA

R.T.: 6.082 min
Delta R.T.: 0.000 min
Response: 5186334623
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 5.804 min
Delta R.T.: 0.000 min
Response: 966434062
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 6.082 min
Delta R.T.: 0.000 min
Response: 5186334623
Conc: 5.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco
07/03/24 03:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\g5g3662\
Data File : 5G138923.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 4:16 pm
Operator : tilakp
Sample : op55825-mb1 m
Misc : op55825,G5G3662,5.0,,,10,1
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 05:33:39 2024
Quant Method : C:\msdchem\1\data\nazaryne\g5g3662\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:16:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	4.618	4.916	1405.0E6	1749.0E6	5.000	5.000m
27) I	1-bromo-2...	4.618	4.916	1405.0E6	1745.6E6	5.000	5.000m
33) I	1-bromo-2...	4.618	4.916	1405.0E6	1748.1E6	5.000	5.000m
	System Monitoring Compounds						
2) SAB	Tetrachlo...	5.248	5.735	446.4E6	1799.4E6	2.947m	3.856m#
	Spiked Amount	40.000	Range 30 - 150		Recovery =	7.37%#	9.64%#
26) SA	Decachlor...	12.438	14.182	1300.6E6	947.0E6	3.197m	2.723m
	Spiked Amount	40.000			Recovery =	7.99%	6.81%
	Target Compounds						
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

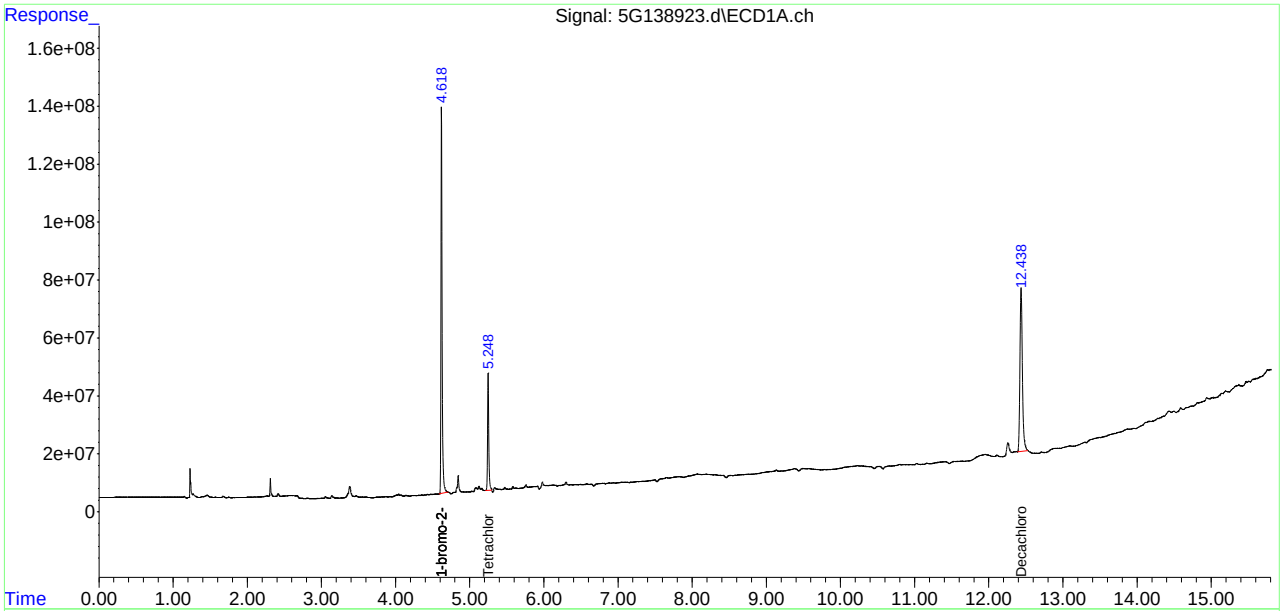
11.2.4 11

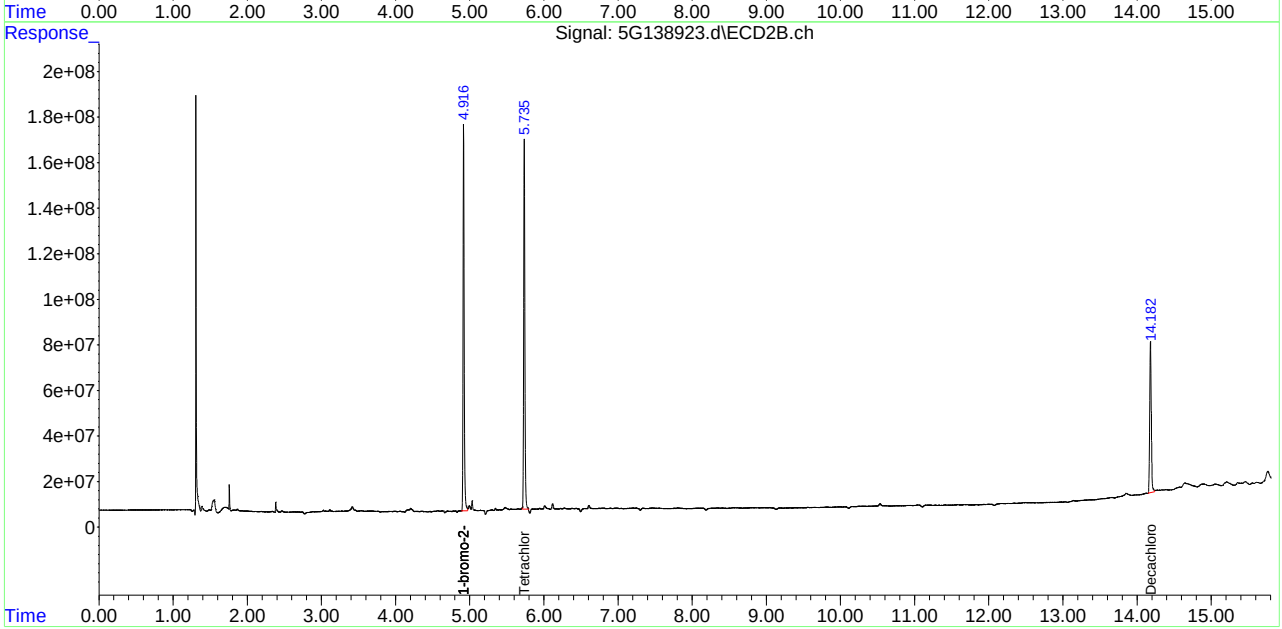
Quantitation Report (QT Reviewed)

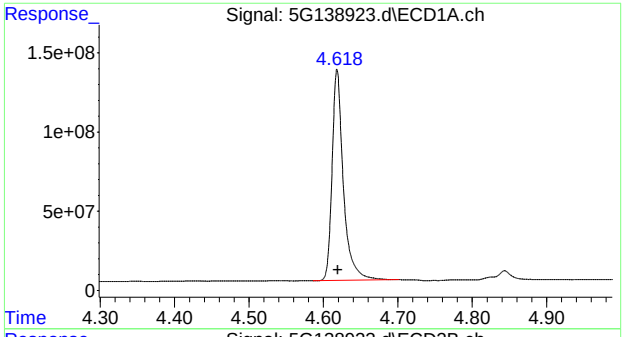
Data Path : C:\msdchem\1\data\nazaryne\g5g3662\
Data File : 5G138923.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jul 2024 4:16 pm
Operator : tilakp
Sample : op55825-mb1 m
Misc : op55825,G5G3662,5.0,,,10,1
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 05:33:39 2024
Quant Method : C:\msdchem\1\data\nazaryne\g5g3662\5pstlvi3634.M
Quant Title : PEST/PCB
QLast Update : Wed Jul 03 05:16:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

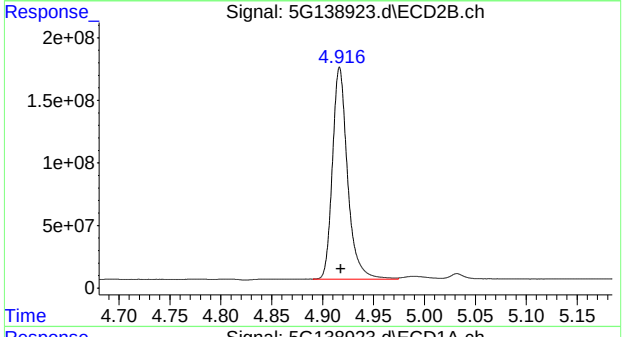






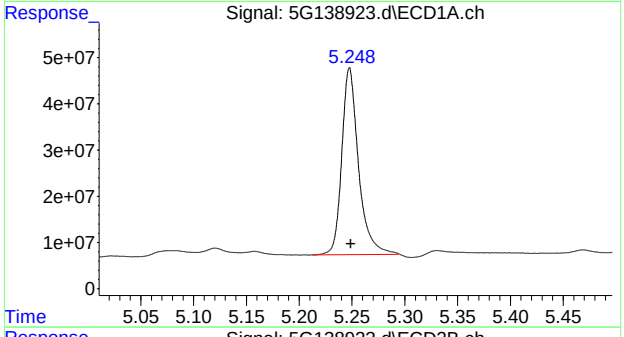
#1 1-bromo-2-nitrobenzene

R.T.: 4.618 min
Delta R.T.: 0.000 min
Response: 1405022236
Conc: 5.00 PPB



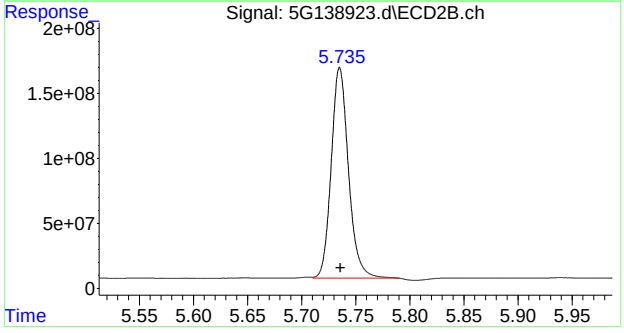
#1 1-bromo-2-nitrobenzene

R.T.: 4.916 min
Delta R.T.: -0.001 min
Response: 1749004564
Conc: 5.00 PPB m



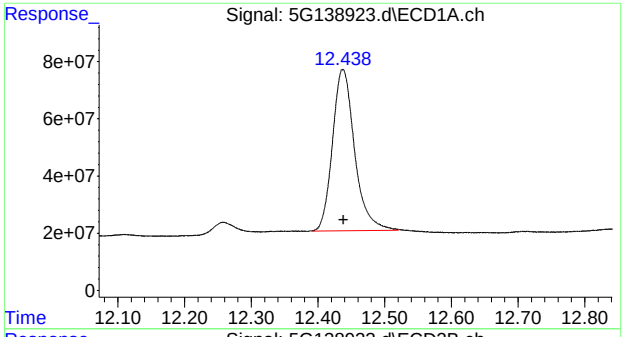
#2 Tetrachloro-m-xylene

R.T.: 5.248 min
Delta R.T.: -0.001 min
Response: 446390223
Conc: 2.95 PPB m



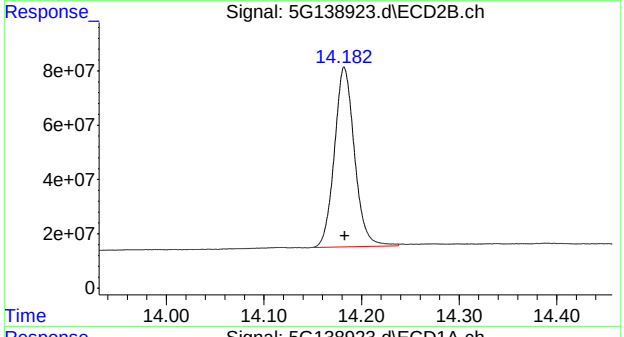
#2 Tetrachloro-m-xylene

R.T.: 5.735 min
Delta R.T.: -0.001 min
Response: 1799374218
Conc: 3.86 PPB m



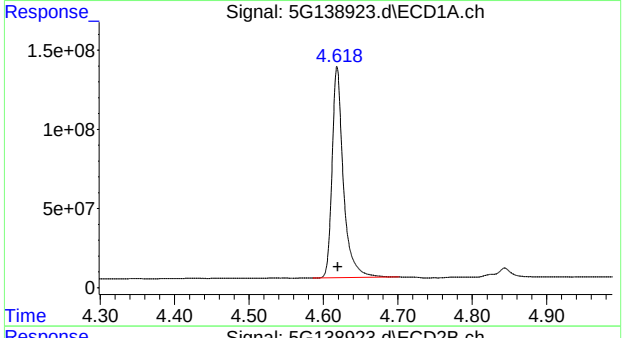
#26 Decachlorobiphenyl

R.T.: 12.438 min
Delta R.T.: 0.000 min
Response: 1300599465
Conc: 3.20 PPB m



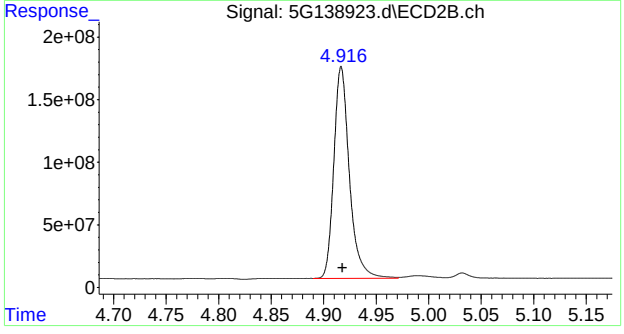
#26 Decachlorobiphenyl

R.T.: 14.182 min
Delta R.T.: -0.001 min
Response: 946997864
Conc: 2.72 PPB m



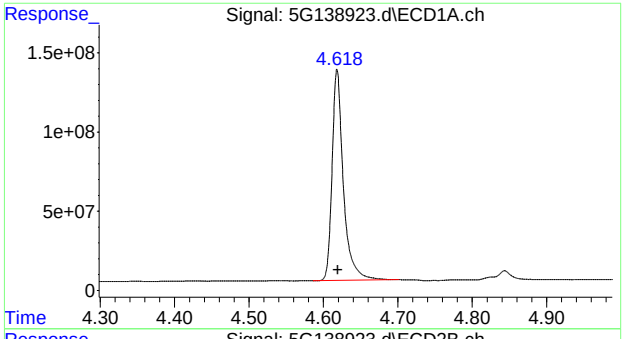
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.618 min
Delta R.T.: 0.000 min
Response: 1405022236
Conc: 5.00 PPB



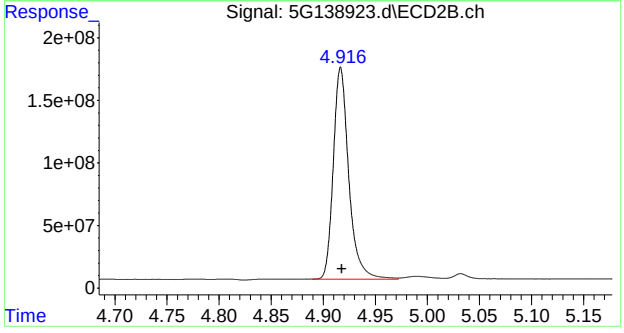
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.916 min
Delta R.T.: -0.001 min
Response: 1745558470
Conc: 5.00 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.618 min
Delta R.T.: 0.000 min
Response: 1405022236
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.916 min
Delta R.T.: -0.001 min
Response: 1748107700
Conc: 5.00 PPB m

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
07/03/24 06:50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\chrisc2\grl401\
Data File : RL18042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jul 2024 03:44 pm
Operator : mahalial
Sample : op55826-mb1 m
Misc : op55826,grl401,5.0,,,10,1
ALS Vial : 107 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 06:07:41 2024
Quant Method : C:\msdchem\1\data\chrisc2\grl401\pcblvigcrl343.m
Quant Title :
QLast Update : Wed Jul 03 05:36:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.917	4.323	711.9E6	583.3E6	3.266m	3.874
	Spiked Amount	40.000		Recovery	=	8.16%	9.69%
51) S	Decachlor...	9.825	10.753f	519.9E6	427.1E6	3.542m	3.811m
	Spiked Amount	40.000		Recovery	=	8.85%	9.53%
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

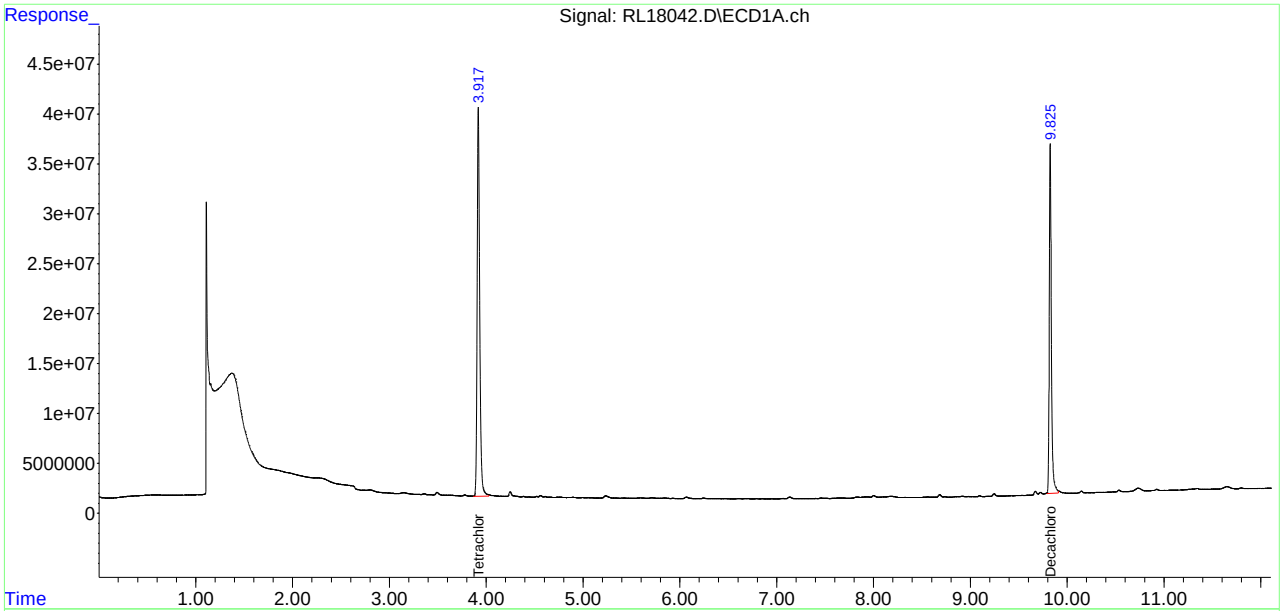
11.2.5 11

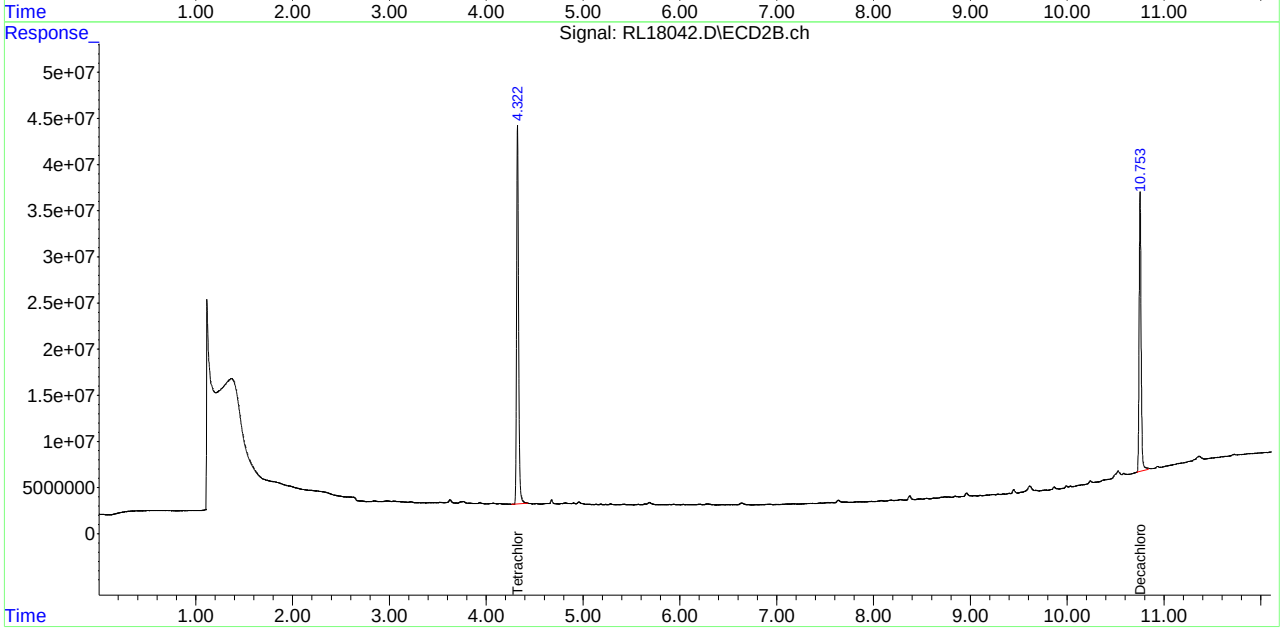
Quantitation Report (QT Reviewed)

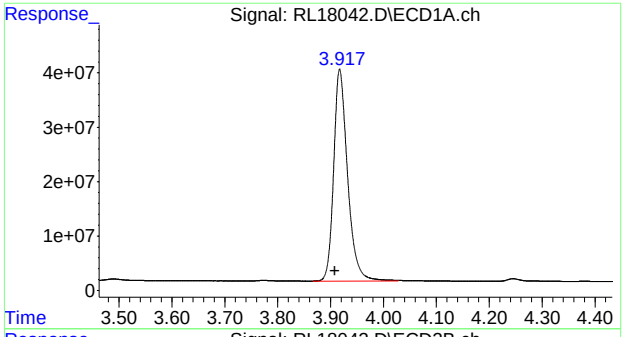
Data Path : C:\msdchem\1\data\chrisc2\grl401\
Data File : RL18042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jul 2024 03:44 pm
Operator : mahalial
Sample : op55826-mb1 m
Misc : op55826,grl401,5.0,,,10,1
ALS Vial : 107 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 06:07:41 2024
Quant Method : C:\msdchem\1\data\chrisc2\grl401\pcblvigcrl343.m
Quant Title :
QLast Update : Wed Jul 03 05:36:13 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

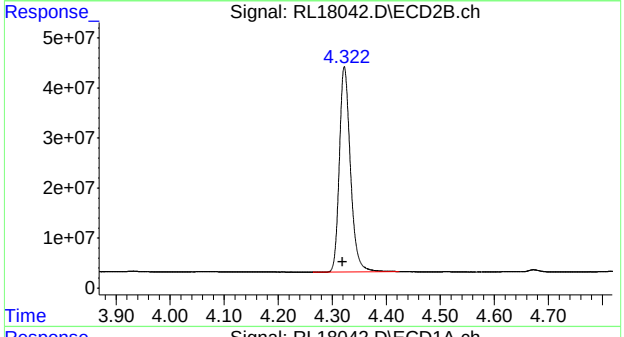






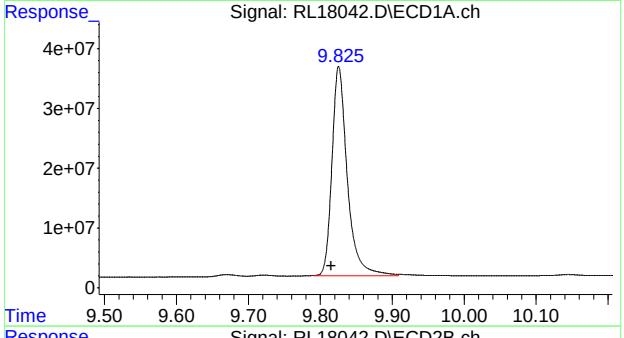
#1 Tetrachloro-m-xylene

R.T.: 3.917 min
Delta R.T.: 0.009 min
Response: 711892648
Conc: 3.27 ppb m



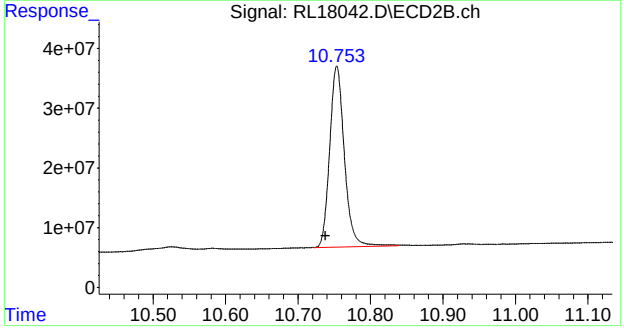
#1 Tetrachloro-m-xylene

R.T.: 4.323 min
Delta R.T.: 0.004 min
Response: 583301064
Conc: 3.87 ppb



#51 Decachlorobiphenyl

R.T.: 9.825 min
Delta R.T.: 0.010 min
Response: 519944558
Conc: 3.54 ppb m



#51 Decachlorobiphenyl

R.T.: 10.753 min
Delta R.T.: 0.016 min
Response: 427090495
Conc: 3.81 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Syra Marie Pacheco
07/02/24 03:14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 05:06 pm
Operator : mahalial
Sample : op55793-mb1 m
Misc : op55793,grm560,5.0,,,10,1
ALS Vial : 113 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 05:26:20 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
1) S Tetrachlo...	3.867	4.298	403.4E6	366.0E6	3.359m	3.637m
Spiked Amount 40.000			Recovery	=	8.40%	9.09%
51) S Decachlor...	9.711	10.650	315.1E6	319.1E6	3.998m	4.128m
Spiked Amount 40.000			Recovery	=	10.00%	10.32%
Target Compounds						

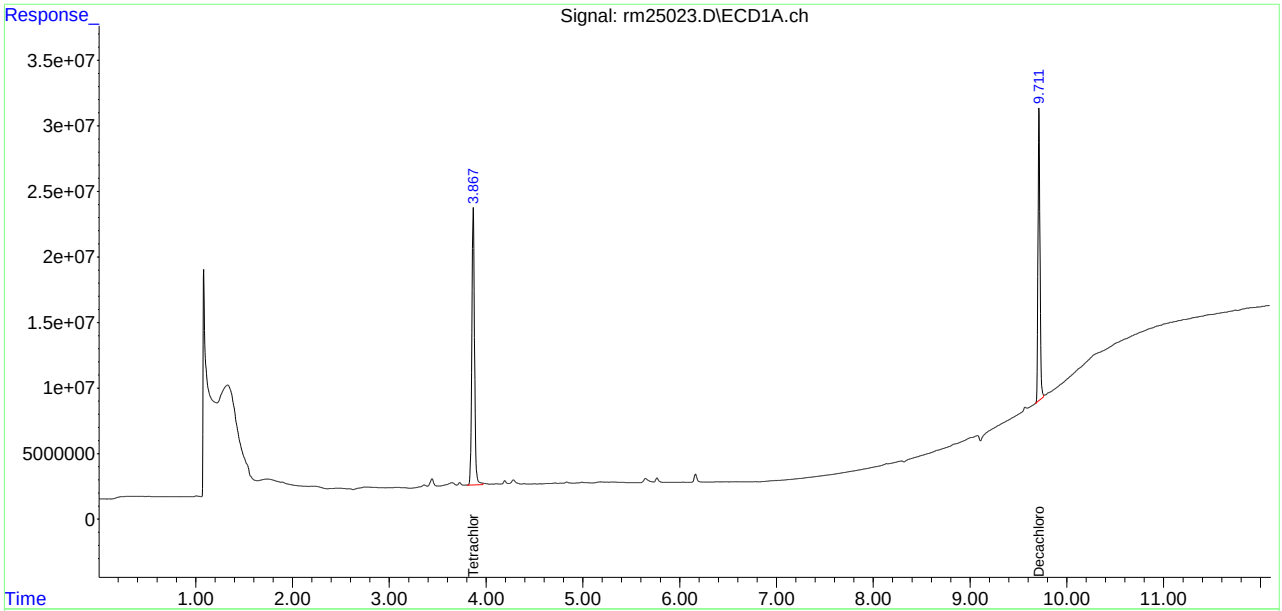
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

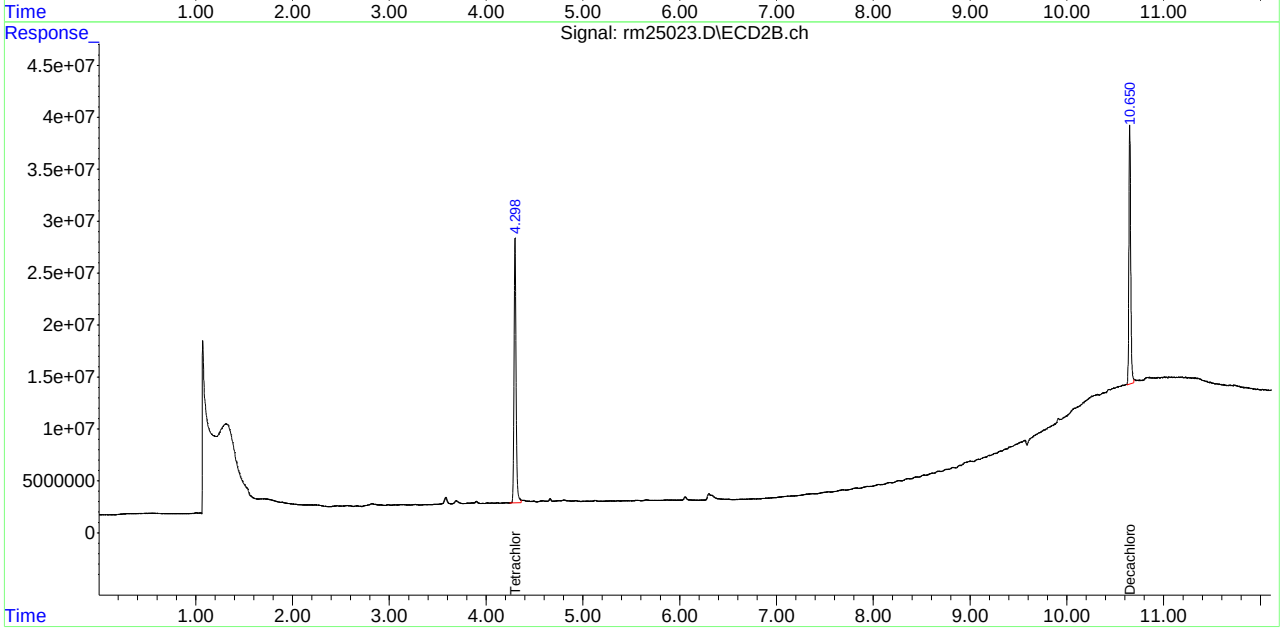
Quantitation Report (QT Reviewed)

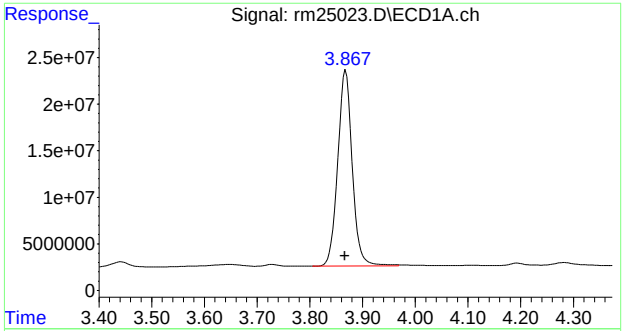
Data Path : C:\msdchem\1\data\nazaryne\GRM560\
Data File : rm25023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Jul 2024 05:06 pm
Operator : mahalial
Sample : op55793-mb1 m
Misc : op55793,grm560,5.0,,,10,1
ALS Vial : 113 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 02 05:26:20 2024
Quant Method : C:\msdchem\1\data\nazaryne\GRM560\lviPCBGRM547.M
Quant Title :
QLast Update : Tue Jul 02 05:10:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

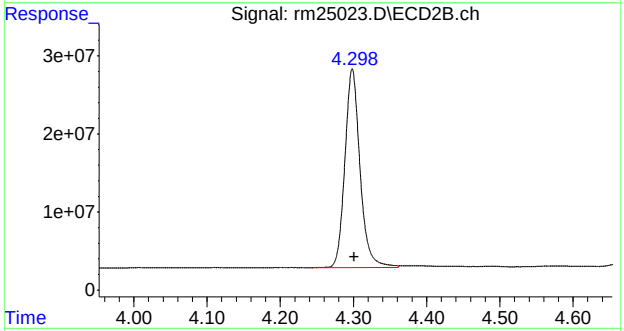






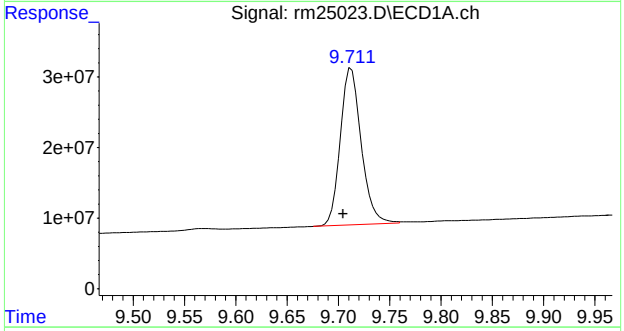
#1 Tetrachloro-m-xylene

R.T.: 3.867 min
Delta R.T.: 0.000 min
Response: 403413795
Conc: 3.36 ppb m



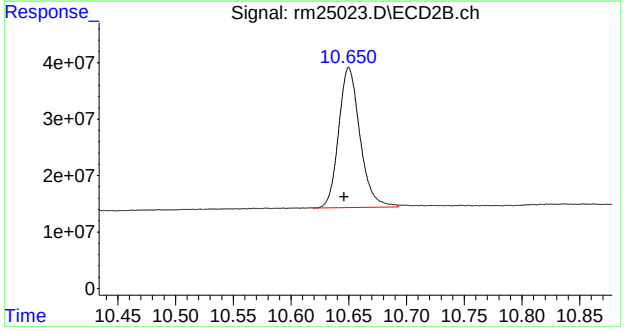
#1 Tetrachloro-m-xylene

R.T.: 4.298 min
Delta R.T.: -0.003 min
Response: 365979958
Conc: 3.64 ppb m



#51 Decachlorobiphenyl

R.T.: 9.711 min
Delta R.T.: 0.007 min
Response: 315062856
Conc: 4.00 ppb m



#51 Decachlorobiphenyl

R.T.: 10.650 min
Delta R.T.: 0.004 min
Response: 319138146
Conc: 4.13 ppb m

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\1G6859\
Data File : 1g192517.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jan 2024 7:07 am
Operator : rebeccak
Sample : icc6859-25 (Pest Mix)
Misc : op51957,g1g6859,250,,,2,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 29 08:55:05 2024
Quant Method : C:\msdchem\1\methods\1PST6859.M
Quant Title : PEST/PCB
QLast Update : Sun Jan 14 21:56:30 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		Internal Standards						
1)	I	1-bromo-2...	1.299	1.256	462.5E6	355.8E6	50.000	50.000
27)	I	1-bromo-2...	1.299	1.256	462.5E6	355.8E6	50.000	50.000
33)	I	1-bromo-2...	1.299	1.256	462.5E6	355.8E6	50.000	50.000
		System Monitoring Compounds						
2)	SAB	Tetrachlo...	1.768	1.874	212.2E6	104.9E6	23.407	24.409
		Spiked Amount 40.000	Range 30 - 150		Recovery =		58.52%	61.02%
26)	SA	Decachlor...	8.834	10.235f	220.9E6	179.5E6	26.438	21.793
		Spiked Amount 40.000			Recovery =		66.09%	54.48%
		Target Compounds						
3)		Hexachlor...	2.045	2.265	243.3E6	248.0E6	21.882	20.698
4)	A	alpha-BHC	2.155	2.368	314.0E6	256.8E6	19.728	21.085
5)	MA	gamma-BHC	2.406	2.705	283.6E6	231.5E6	20.655	20.918
6)	MA	Heptachlor	2.821	3.177	307.1E6	248.4E6	21.230	21.273
7)	B	beta-BHC	2.483	2.789	127.4E6	87131567	21.444	20.661
8)	B	delta-BHC	2.642	3.103	254.9E6	216.3E6	19.323	20.263
9)	MB	Aldrin	3.114	3.553	276.6E6	232.4E6	20.689	21.118
10)		Alachlor	3.244	3.404	35410333	22009477	23.201	21.704
11)	B	Heptachlo...	3.762	4.272	268.7E6	210.6E6	21.111	20.495
12)	B	gamma-Chl...	3.914	4.537	268.5E6	216.4E6	21.142	20.810
13)	B	alpha-Chl...	4.074	4.741	265.3E6	208.2E6	21.566	20.795
14)	A	Endosulfan I	4.240	4.820	262.9E6	203.5E6	21.712	20.552
15)	B	4,4'-DDE	4.188	5.005	218.4E6	198.9E6	19.181	20.965
16)	MA	Dieldrin	4.550	5.224	262.1E6	218.1E6	20.435	20.515
17)	MA	Endrin	4.861	5.689	247.3E6	201.2E6	20.313	20.356
18)	A	4,4'-DDD	5.006	5.917f	189.4E6	151.2E6	19.337	20.510
19)	B	Endosulfa...	5.182	6.037	231.0E6	189.6E6	20.682	20.241
20)	MA	4,4'-DDT	5.405	6.431f	185.2E6	133.2E6	18.729	18.827
21)	B	Endrin Al...	5.806	6.598f	172.4E6	129.5E6	21.911	19.144
22)	B	Endosulfa...	6.493	7.080f	212.8E6	159.5E6	21.105	19.867
23)	A	Methoxychlor	6.208	7.673f	117.5E6	76469683	19.841	18.198
24)		Mirex	6.315	7.926f	202.1E6	127.5E6	23.057	18.821
25)	B	Endrin Ke...	6.945	8.011f	248.6E6	188.6E6	20.487	20.246
		Sum Toxaphene			0	0	N.D.	N.D.
Average		Toxaphene					0.000	0.000
		SemiQuant Compounds - Not Calibrated on this Instrument						

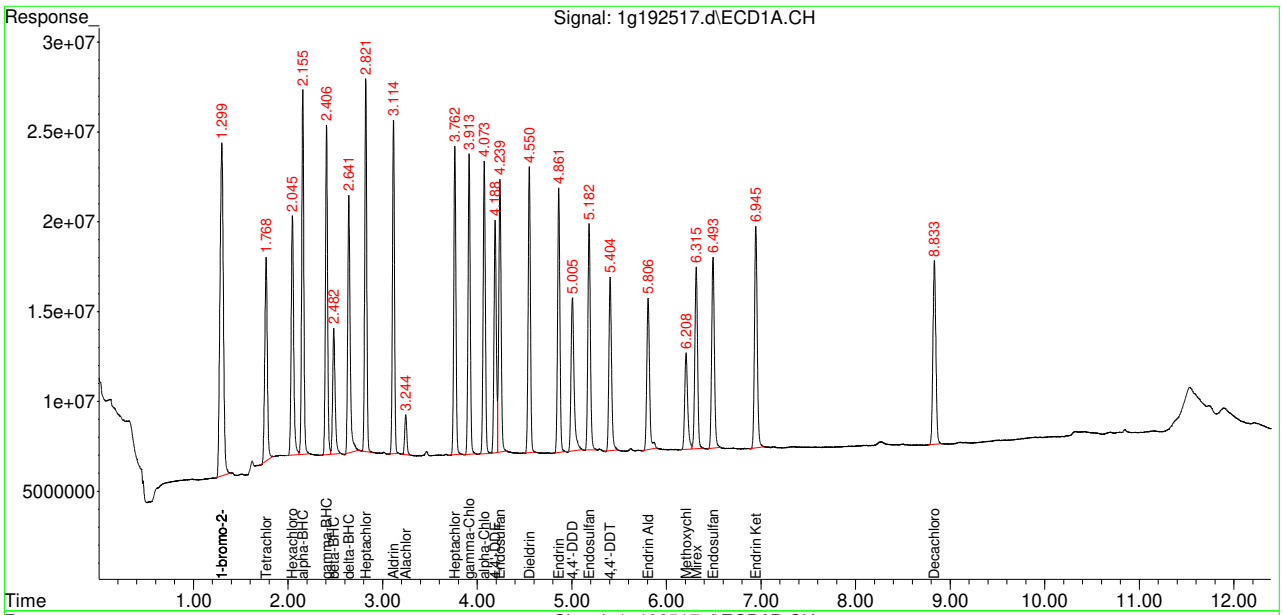
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

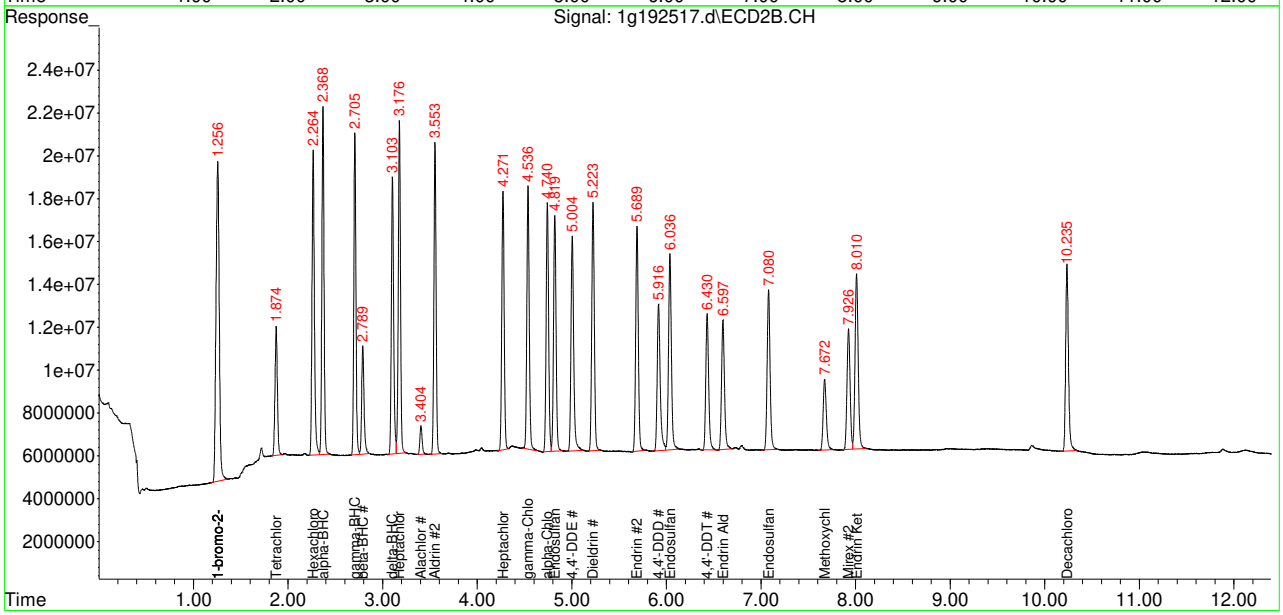
Quantitation Report (QT Reviewed)

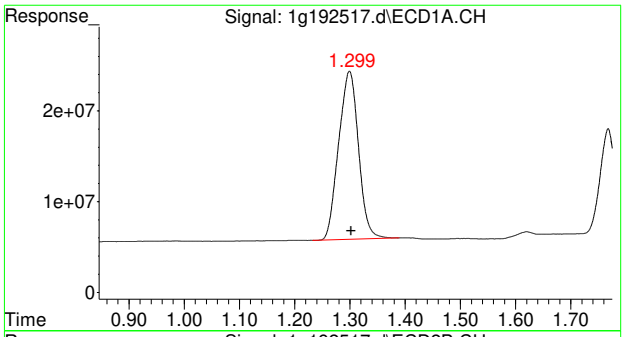
Data Path : C:\msdchem\1\data\1G6859\
Data File : 1g192517.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jan 2024 7:07 am
Operator : rebeccak
Sample : icc6859-25 (Pest Mix)
Misc : op51957,g1g6859,250,,,2,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 29 08:55:05 2024
Quant Method : C:\msdchem\1\methods\1PST6859.M
Quant Title : PEST/PCB
QLast Update : Sun Jan 14 21:56:30 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

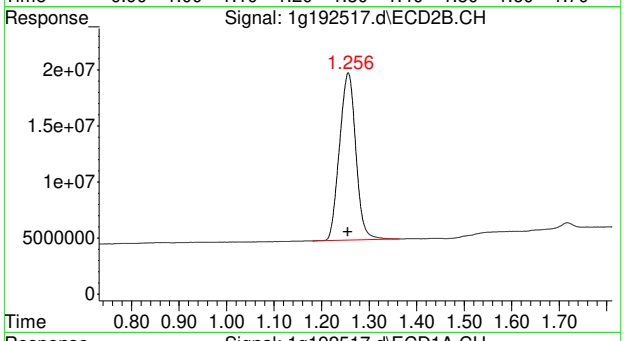






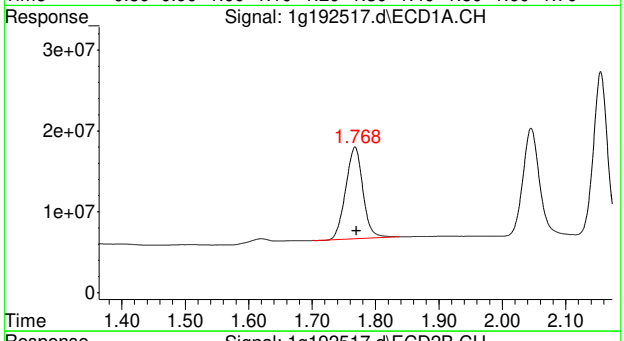
#1 1-bromo-2-nitrobenzene

R.T.: 1.299 min
Delta R.T.: -0.003 min
Response: 462539575
Conc: 50.00 PPB



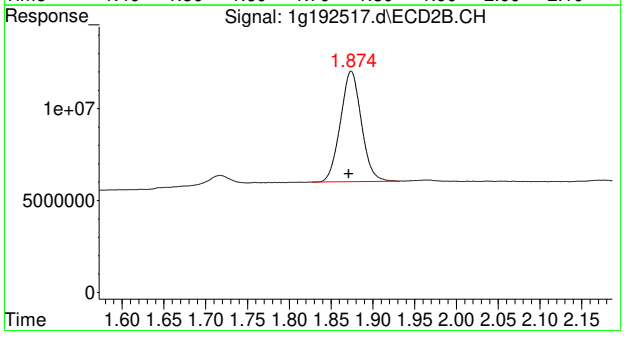
#1 1-bromo-2-nitrobenzene

R.T.: 1.256 min
Delta R.T.: 0.001 min
Response: 355808252
Conc: 50.00 PPB



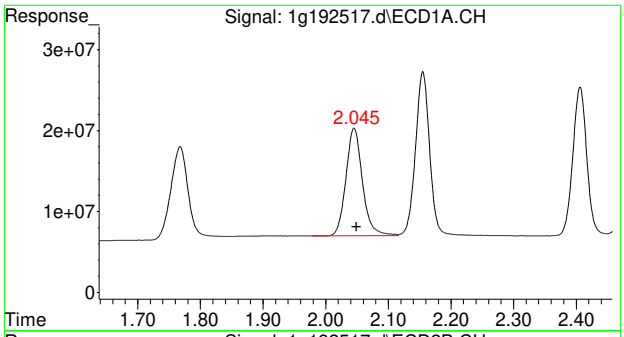
#2 Tetrachloro-m-xylene

R.T.: 1.768 min
Delta R.T.: -0.002 min
Response: 212241883
Conc: 23.41 PPB



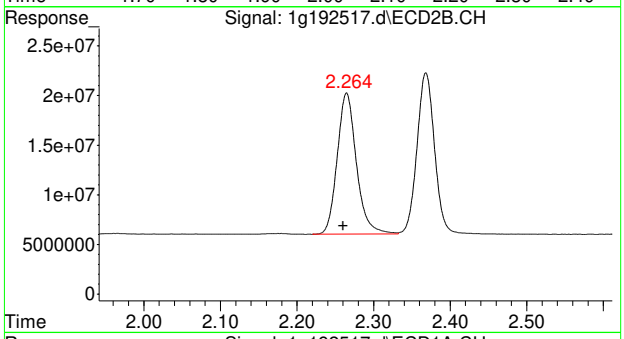
#2 Tetrachloro-m-xylene

R.T.: 1.874 min
Delta R.T.: 0.003 min
Response: 104922995
Conc: 24.41 PPB



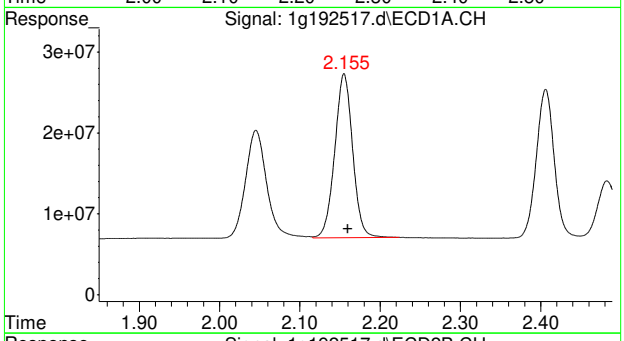
#3 Hexachlorobenzene

R.T.: 2.045 min
Delta R.T.: -0.003 min
Response: 243299341
Conc: 21.88 PPB



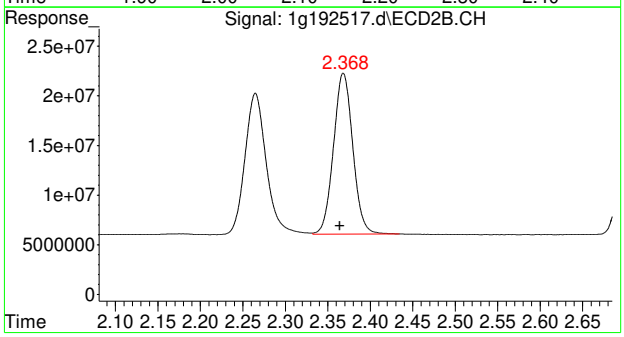
#3 Hexachlorobenzene

R.T.: 2.265 min
Delta R.T.: 0.004 min
Response: 248039769
Conc: 20.70 PPB



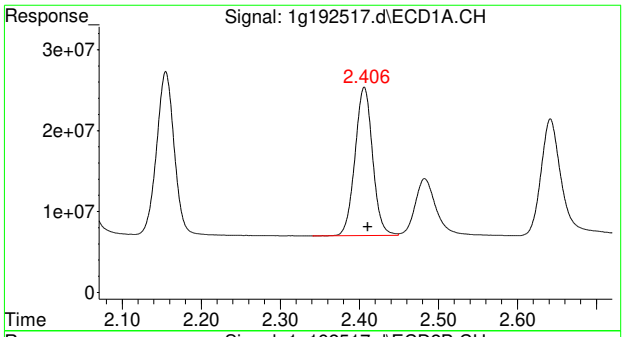
#4 alpha-BHC

R.T.: 2.155 min
Delta R.T.: -0.005 min
Response: 313956181
Conc: 19.73 PPB



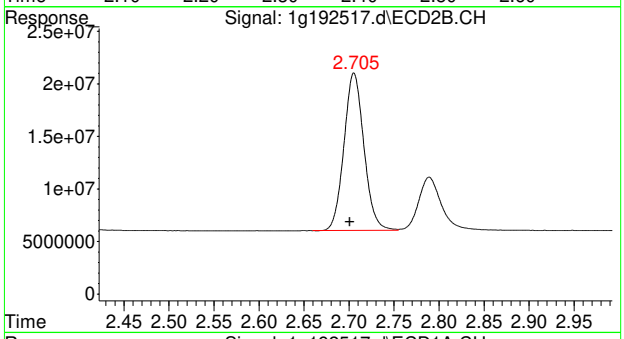
#4 alpha-BHC

R.T.: 2.368 min
Delta R.T.: 0.004 min
Response: 256837759
Conc: 21.09 PPB



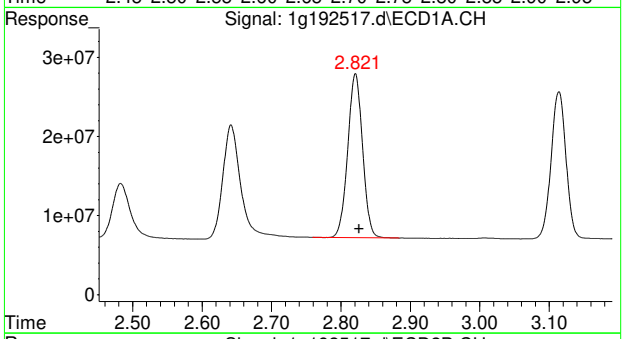
#5 gamma-BHC

R.T.: 2.406 min
Delta R.T.: -0.004 min
Response: 283617205
Conc: 20.65 PPB



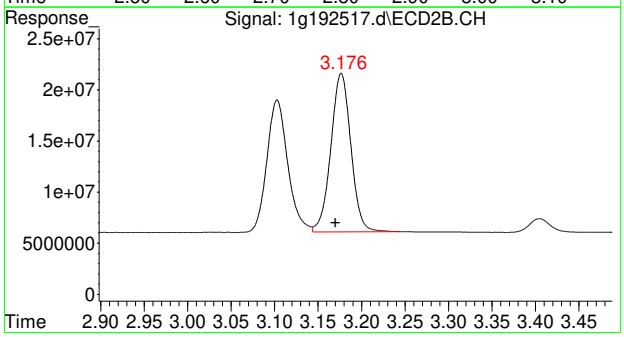
#5 gamma-BHC

R.T.: 2.705 min
Delta R.T.: 0.005 min
Response: 231515591
Conc: 20.92 PPB



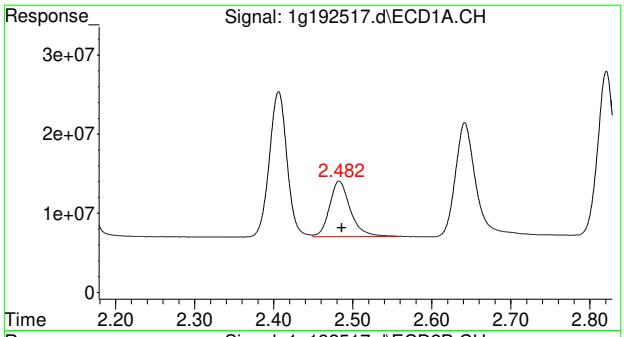
#6 Heptachlor

R.T.: 2.821 min
Delta R.T.: -0.005 min
Response: 307145847
Conc: 21.23 PPB



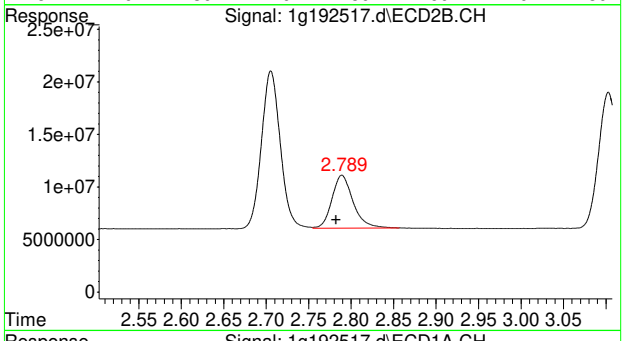
#6 Heptachlor

R.T.: 3.177 min
Delta R.T.: 0.007 min
Response: 248357449
Conc: 21.27 PPB



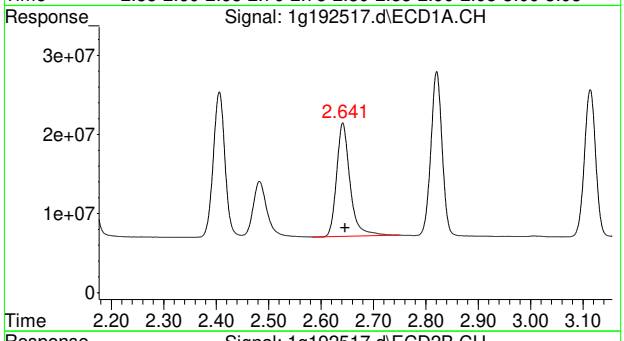
#7 beta-BHC

R.T.: 2.483 min
Delta R.T.: -0.003 min
Response: 127404521
Conc: 21.44 PPB



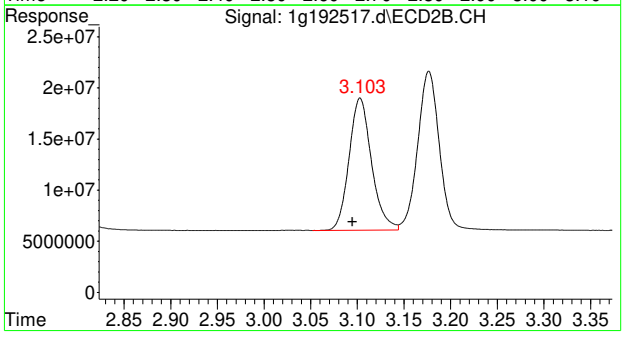
#7 beta-BHC

R.T.: 2.789 min
Delta R.T.: 0.007 min
Response: 87131567
Conc: 20.66 PPB



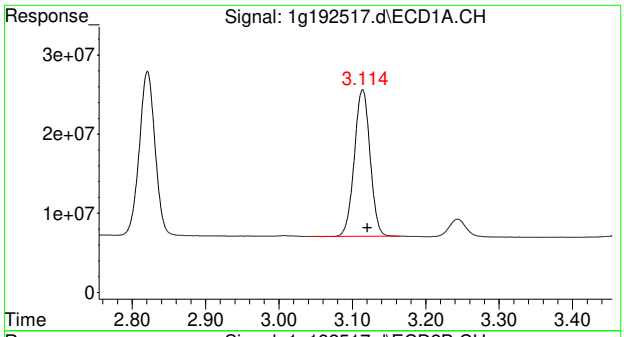
#8 delta-BHC

R.T.: 2.642 min
Delta R.T.: -0.004 min
Response: 254869851
Conc: 19.32 PPB



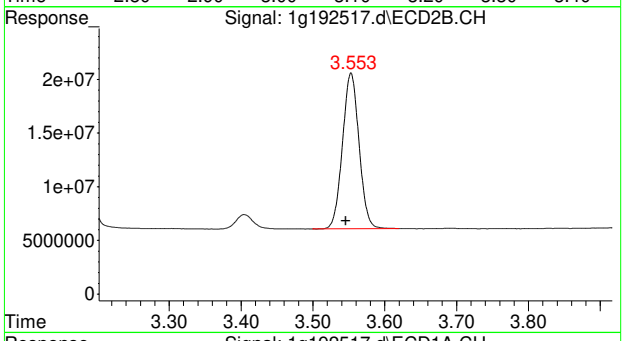
#8 delta-BHC

R.T.: 3.103 min
Delta R.T.: 0.008 min
Response: 216334027
Conc: 20.26 PPB



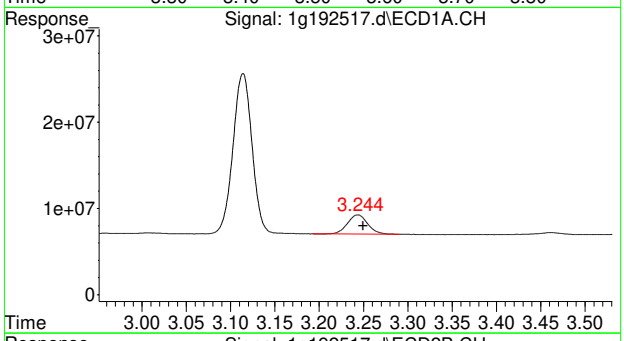
#9 Aldrin

R.T.: 3.114 min
Delta R.T.: -0.006 min
Response: 276584848
Conc: 20.69 PPB



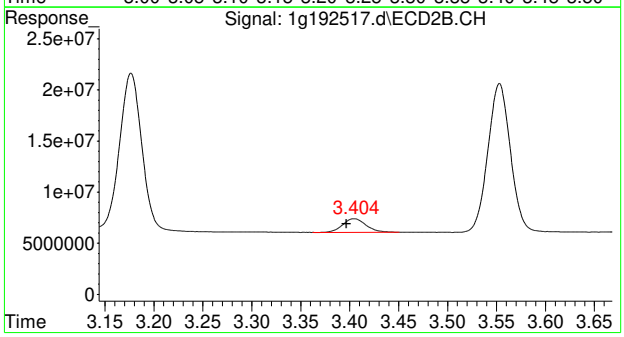
#9 Aldrin

R.T.: 3.553 min
Delta R.T.: 0.007 min
Response: 232382878
Conc: 21.12 PPB



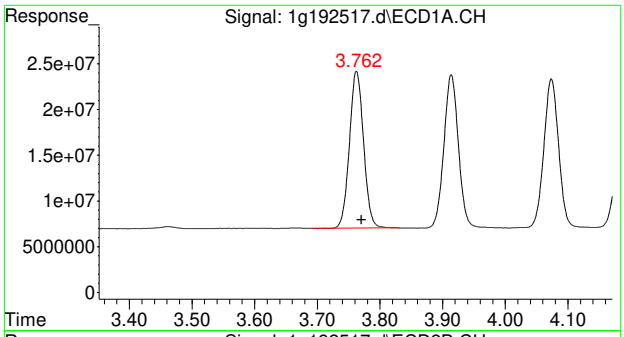
#10 Alachlor

R.T.: 3.244 min
Delta R.T.: -0.006 min
Response: 35410333
Conc: 23.20 PPB



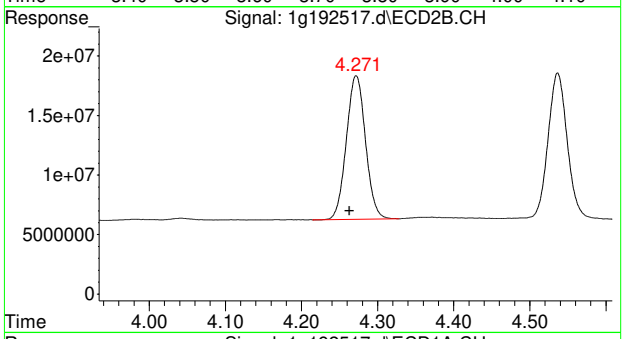
#10 Alachlor

R.T.: 3.404 min
Delta R.T.: 0.008 min
Response: 22009477
Conc: 21.70 PPB



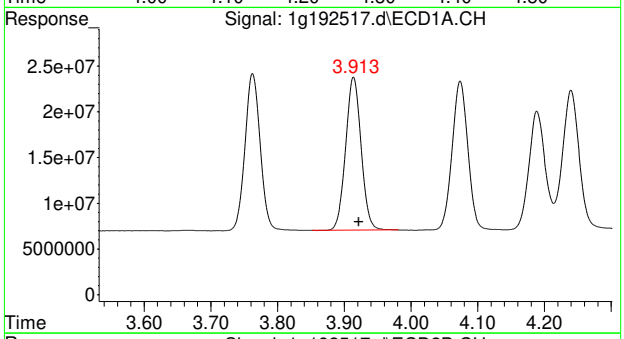
#11 Heptachlor Epoxide

R.T.: 3.762 min
Delta R.T.: -0.008 min
Response: 268672624
Conc: 21.11 PPB



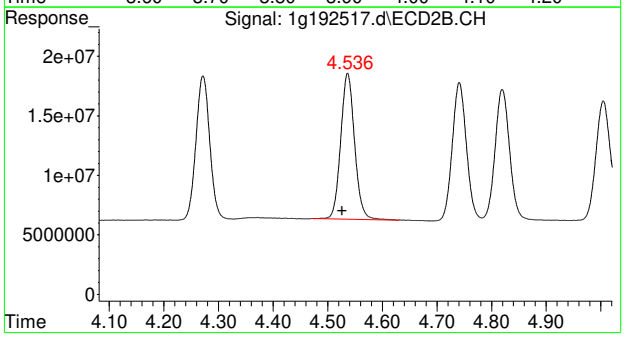
#11 Heptachlor Epoxide

R.T.: 4.272 min
Delta R.T.: 0.009 min
Response: 210607224
Conc: 20.49 PPB



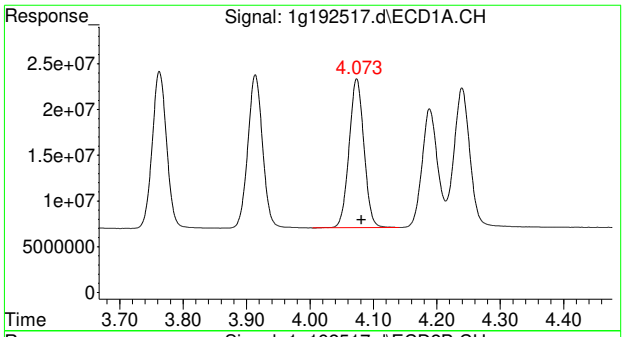
#12 gamma-Chlordane

R.T.: 3.914 min
Delta R.T.: -0.008 min
Response: 268466033
Conc: 21.14 PPB



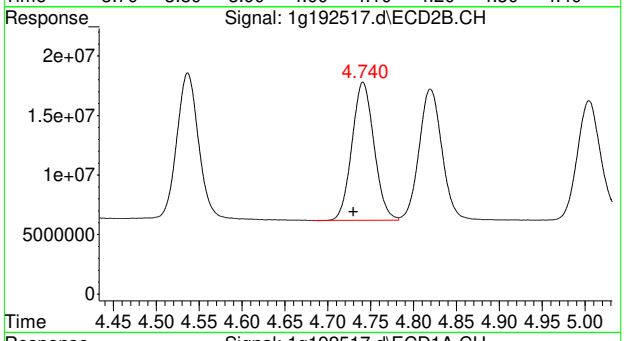
#12 gamma-Chlordane

R.T.: 4.537 min
Delta R.T.: 0.010 min
Response: 216378325
Conc: 20.81 PPB



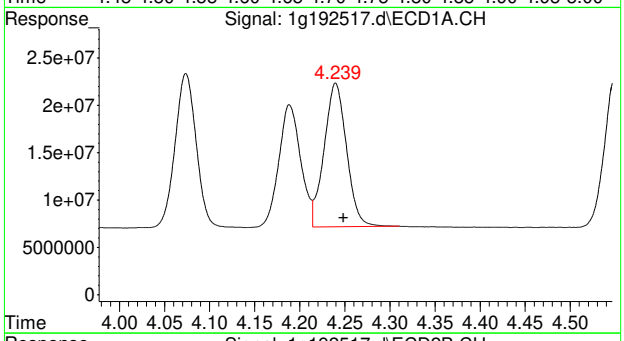
#13 alpha-Chlordane

R.T.: 4.074 min
Delta R.T.: -0.007 min
Response: 265330485
Conc: 21.57 PPB



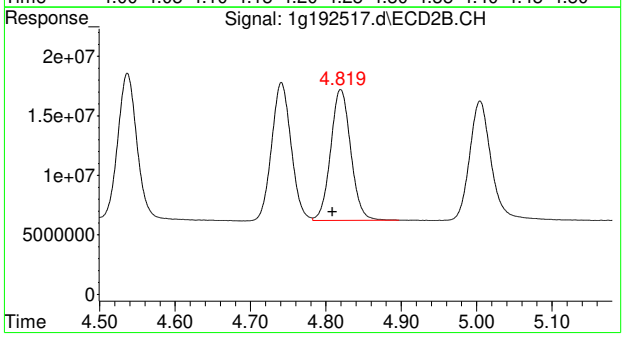
#13 alpha-Chlordane

R.T.: 4.741 min
Delta R.T.: 0.011 min
Response: 208154572
Conc: 20.79 PPB



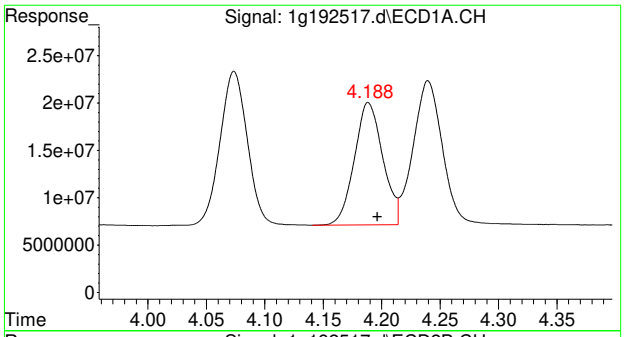
#14 Endosulfan I

R.T.: 4.240 min
Delta R.T.: -0.009 min
Response: 262862441
Conc: 21.71 PPB



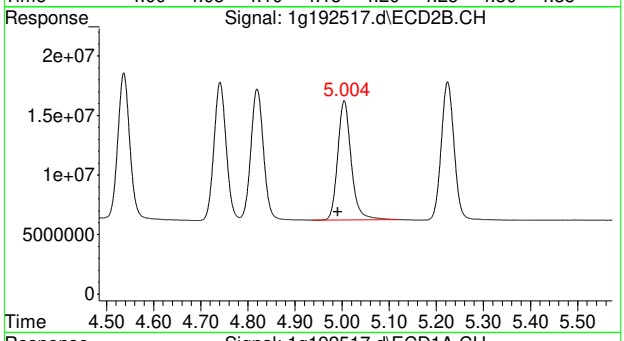
#14 Endosulfan I

R.T.: 4.820 min
Delta R.T.: 0.011 min
Response: 203495953
Conc: 20.55 PPB



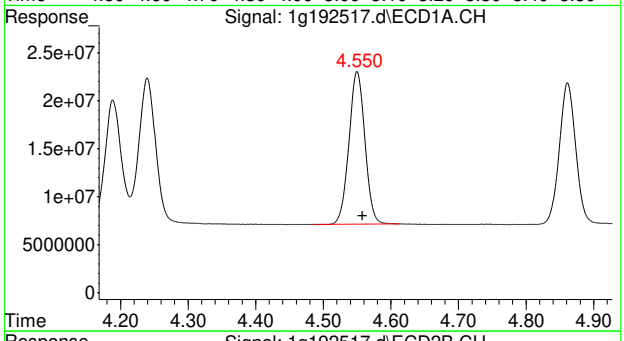
#15 4,4'-DDE

R.T.: 4.188 min
Delta R.T.: -0.008 min
Response: 218352271
Conc: 19.18 PPB



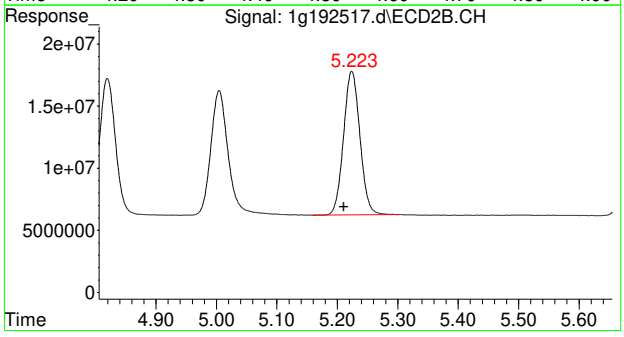
#15 4,4'-DDE

R.T.: 5.005 min
Delta R.T.: 0.014 min
Response: 198918656
Conc: 20.97 PPB



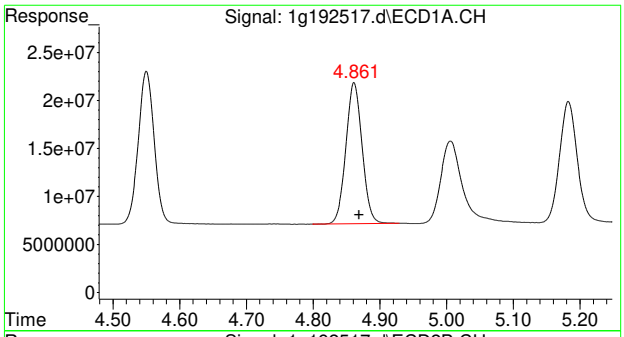
#16 Dieldrin

R.T.: 4.550 min
Delta R.T.: -0.008 min
Response: 262100820
Conc: 20.43 PPB



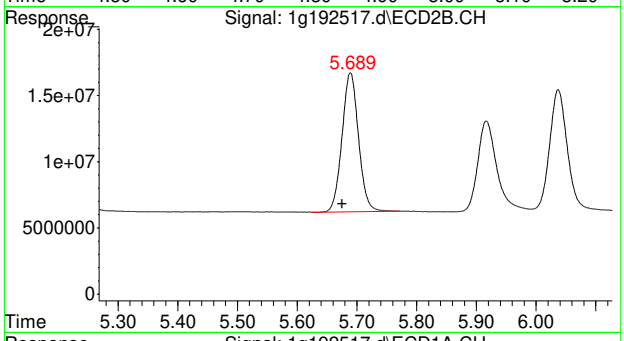
#16 Dieldrin

R.T.: 5.224 min
Delta R.T.: 0.013 min
Response: 218149120
Conc: 20.51 PPB



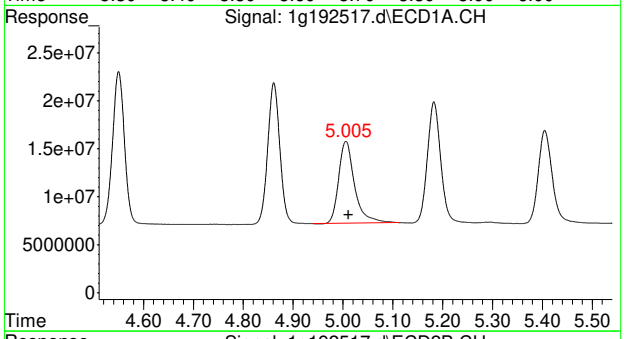
#17 Endrin

R.T.: 4.861 min
Delta R.T.: -0.008 min
Response: 247280873
Conc: 20.31 PPB



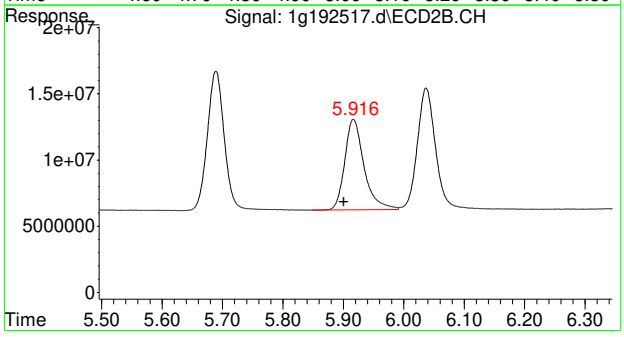
#17 Endrin

R.T.: 5.689 min
Delta R.T.: 0.014 min
Response: 201158150
Conc: 20.36 PPB



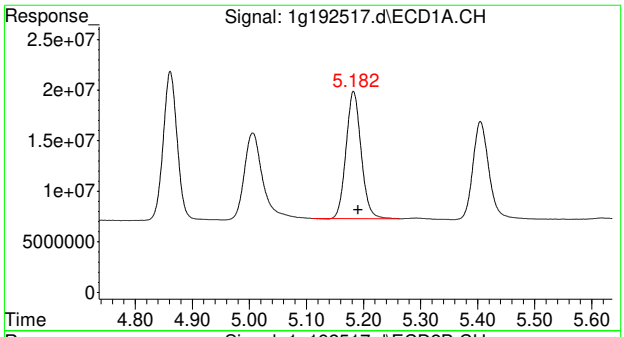
#18 4,4'-DDD

R.T.: 5.006 min
Delta R.T.: -0.005 min
Response: 189415177
Conc: 19.34 PPB



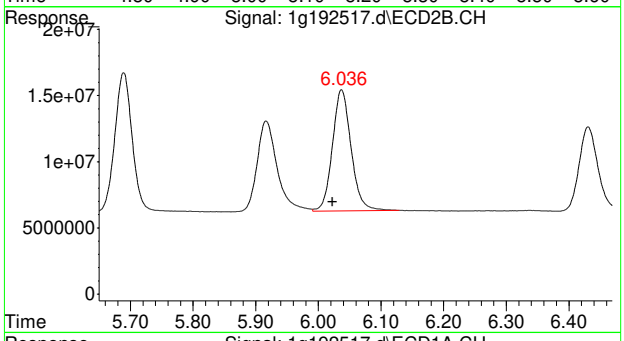
#18 4,4'-DDD

R.T.: 5.917 min
Delta R.T.: 0.016 min
Response: 151249188
Conc: 20.51 PPB



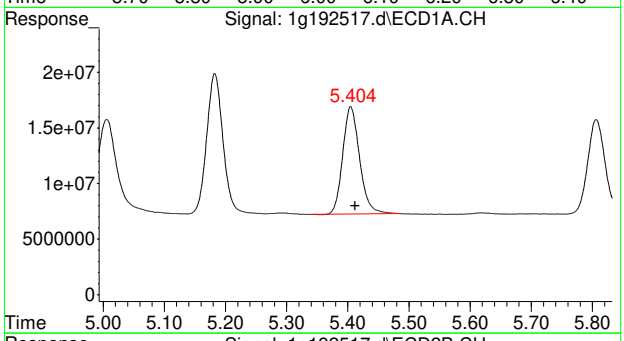
#19 Endosulfan II

R.T.: 5.182 min
Delta R.T.: -0.008 min
Response: 231038239
Conc: 20.68 PPB



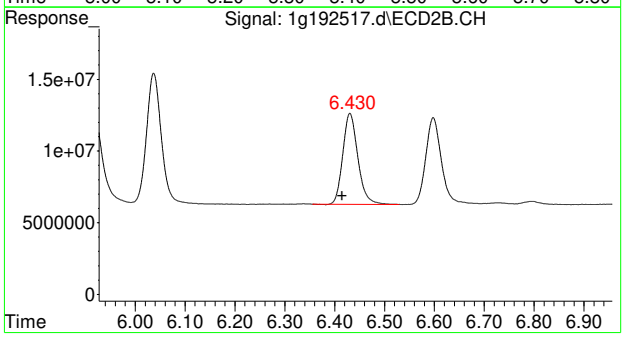
#19 Endosulfan II

R.T.: 6.037 min
Delta R.T.: 0.015 min
Response: 189646666
Conc: 20.24 PPB



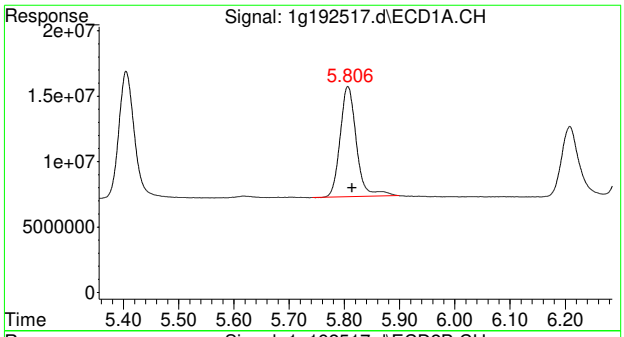
#20 4,4'-DDT

R.T.: 5.405 min
Delta R.T.: -0.007 min
Response: 185202740
Conc: 18.73 PPB



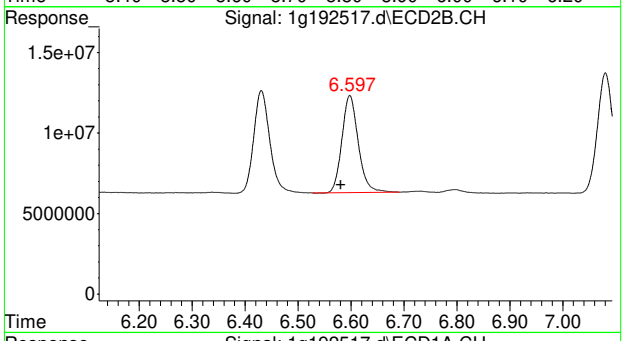
#20 4,4'-DDT

R.T.: 6.431 min
Delta R.T.: 0.016 min
Response: 133162070
Conc: 18.83 PPB



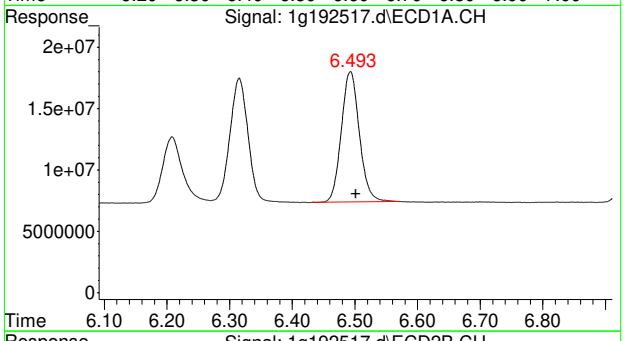
#21 Endrin Aldehyde

R.T.: 5.806 min
Delta R.T.: -0.008 min
Response: 172436761
Conc: 21.91 PPB



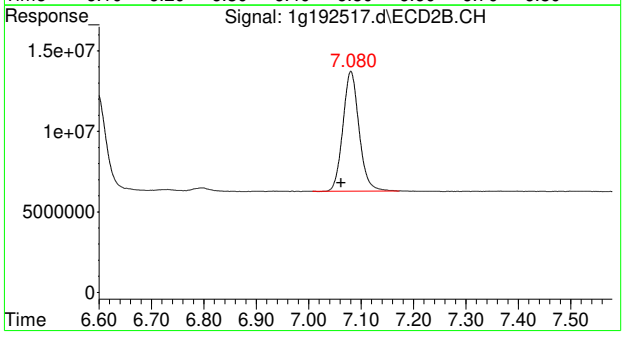
#21 Endrin Aldehyde

R.T.: 6.598 min
Delta R.T.: 0.017 min
Response: 129472053
Conc: 19.14 PPB



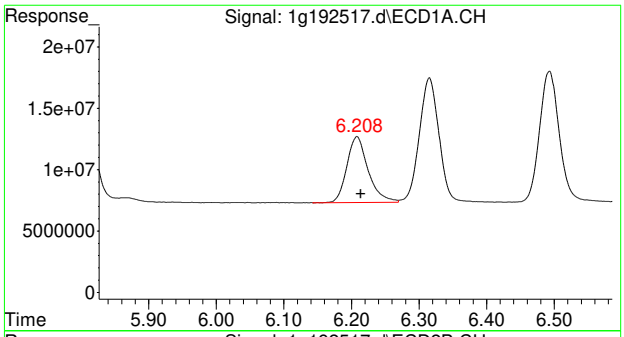
#22 Endosulfan Sulfate

R.T.: 6.493 min
Delta R.T.: -0.009 min
Response: 212824057
Conc: 21.10 PPB



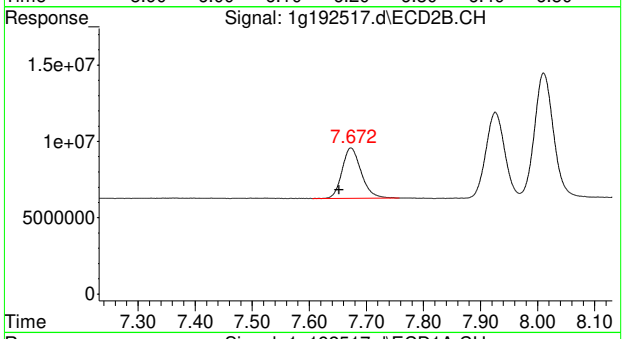
#22 Endosulfan Sulfate

R.T.: 7.080 min
Delta R.T.: 0.019 min
Response: 159459543
Conc: 19.87 PPB



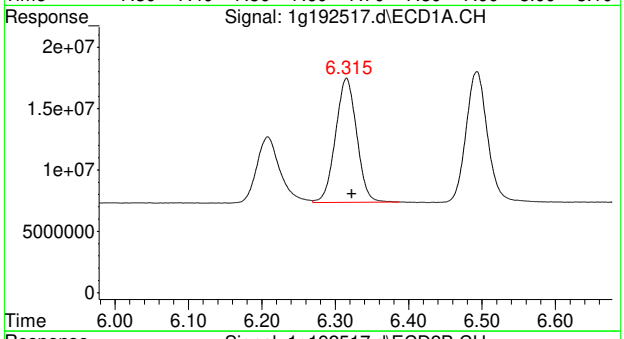
#23 Methoxychlor

R.T.: 6.208 min
Delta R.T.: -0.005 min
Response: 117465590
Conc: 19.84 PPB



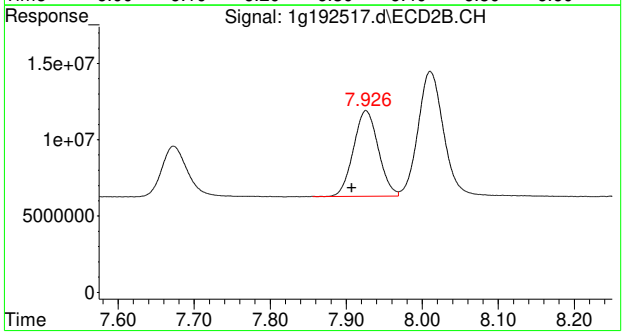
#23 Methoxychlor

R.T.: 7.673 min
Delta R.T.: 0.021 min
Response: 76469683
Conc: 18.20 PPB



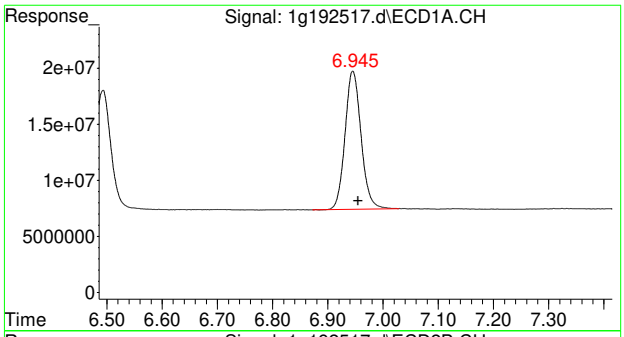
#24 Mirex

R.T.: 6.315 min
Delta R.T.: -0.007 min
Response: 202097591
Conc: 23.06 PPB



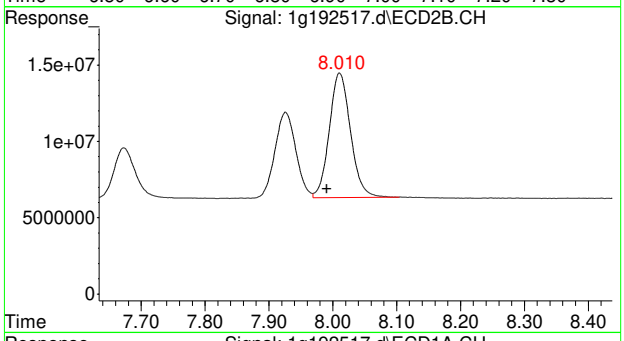
#24 Mirex

R.T.: 7.926 min
Delta R.T.: 0.019 min
Response: 127498387
Conc: 18.82 PPB



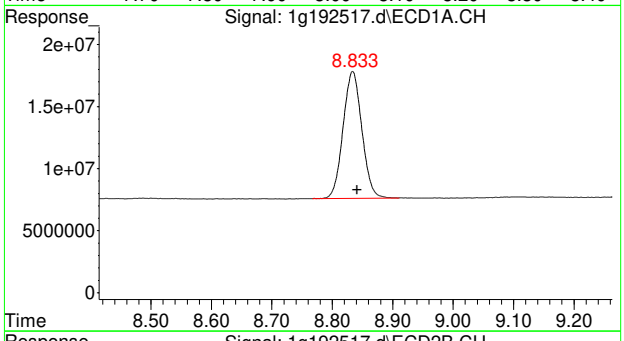
#25 Endrin Ketone

R.T.: 6.945 min
Delta R.T.: -0.009 min
Response: 248639456
Conc: 20.49 PPB



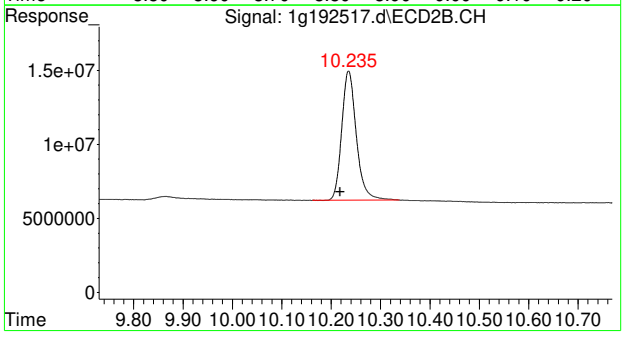
#25 Endrin Ketone

R.T.: 8.011 min
Delta R.T.: 0.020 min
Response: 188557465
Conc: 20.25 PPB



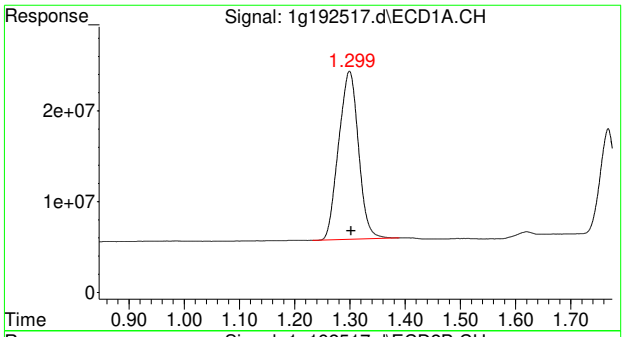
#26 Decachlorobiphenyl

R.T.: 8.834 min
Delta R.T.: -0.007 min
Response: 220931520
Conc: 26.44 PPB



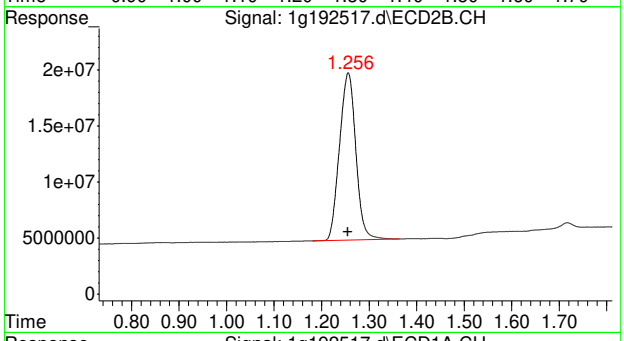
#26 Decachlorobiphenyl

R.T.: 10.235 min
Delta R.T.: 0.017 min
Response: 179529109
Conc: 21.79 PPB



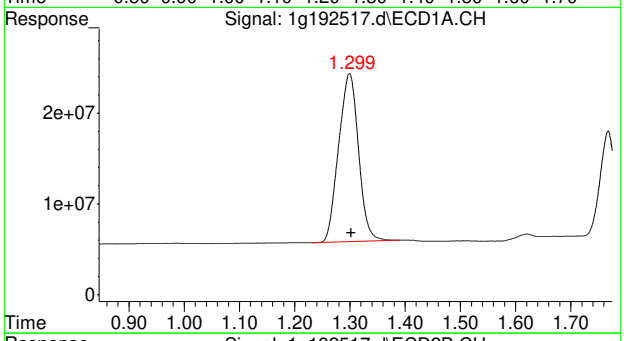
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.299 min
Delta R.T.: -0.003 min
Response: 462539575
Conc: 50.00 PPB



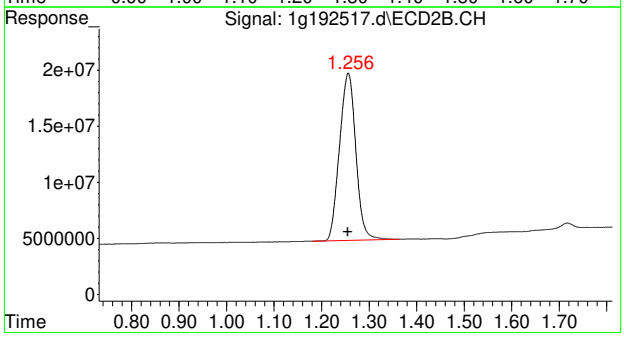
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.256 min
Delta R.T.: 0.001 min
Response: 355808252
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.299 min
Delta R.T.: -0.003 min
Response: 462539575
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.256 min
Delta R.T.: 0.001 min
Response: 355808252
Conc: 50.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
01/30/24 10:42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\1G6859\
Data File : 1g192521.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jan 2024 8:12 am
Operator : rebeccak
Sample : ic6859-500 (Chlordane)
Misc : op51957,g1g6859,250,,,2,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 29 09:28:35 2024
Quant Method : C:\msdchem\1\methods\1PST6859.M
Quant Title : PEST/PCB
QLast Update : Mon Jan 29 09:04:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	1.300	1.257	470.1E6	358.8E6	50.000	50.000
27)	I 1-bromo-2...	1.300	1.257	470.1E6	358.8E6	50.000	50.000
33)	I 1-bromo-2...	1.300	1.257	470.1E6	358.8E6	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.768	1.875	479.6E6	280.4E6	52.039	64.698
	Spiked Amount 40.000	Range 30 - 150		Recovery = 130.10%		161.74%#	
26)	SA Decachlor...	8.833	10.235	453.9E6	385.5E6	53.446	46.406
	Spiked Amount 40.000			Recovery = 133.62%		116.02%	
	Target Compounds						
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
34)	Chlordane...	2.821	3.177	314.0E6	244.6E6	521.617	491.890
35)	Chlordane...	3.249	3.727	189.3E6	128.5E6	555.231	496.477
36)	Chlordane...	3.915	4.537	613.4E6	486.0E6	486.929	484.165
37)	Chlordane...	4.065	4.741	967.7E6	768.9E6	486.195	468.562m
38)	Chlordane...	5.087	6.110	139.1E6	112.1E6	468.970	471.847
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

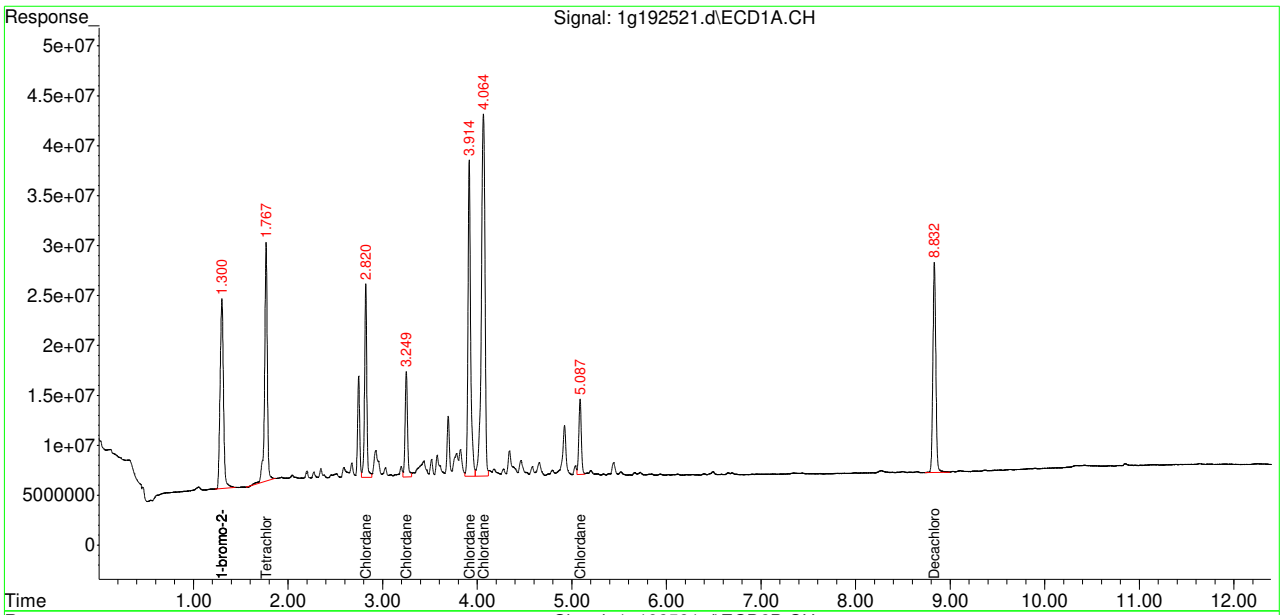
11.3.2 11

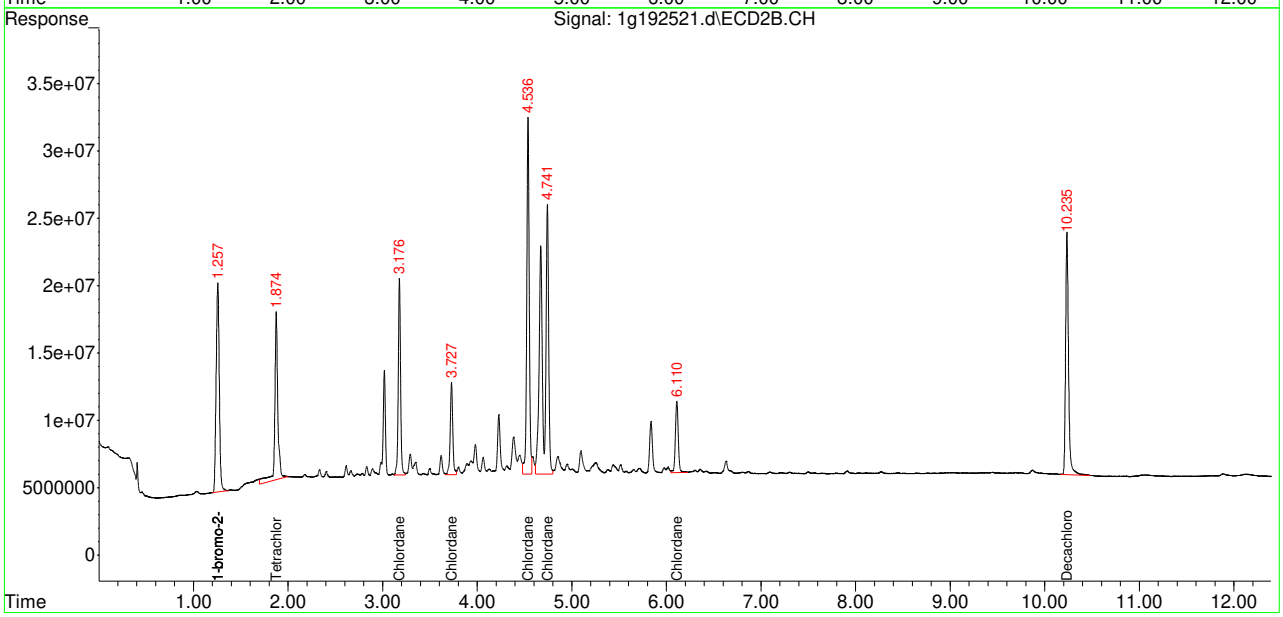
Quantitation Report (QT Reviewed)

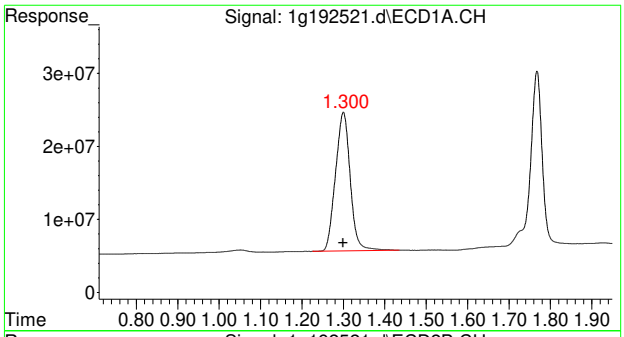
Data Path : C:\msdchem\1\data\1G6859\
Data File : 1g192521.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jan 2024 8:12 am
Operator : rebeccak
Sample : ic6859-500 (Chlordane)
Misc : op51957,g1g6859,250,,,2,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 29 09:28:35 2024
Quant Method : C:\msdchem\1\methods\1PST6859.M
Quant Title : PEST/PCB
QLast Update : Mon Jan 29 09:04:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

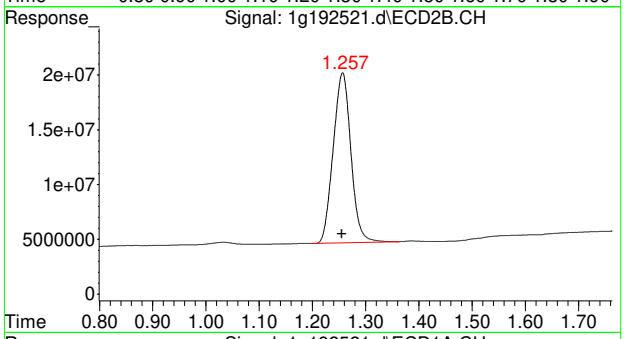






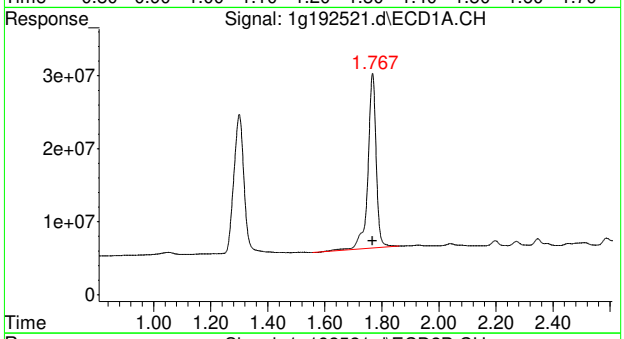
#1 1-bromo-2-nitrobenzene

R.T.: 1.300 min
Delta R.T.: 0.001 min
Response: 470128949
Conc: 50.00 PPB



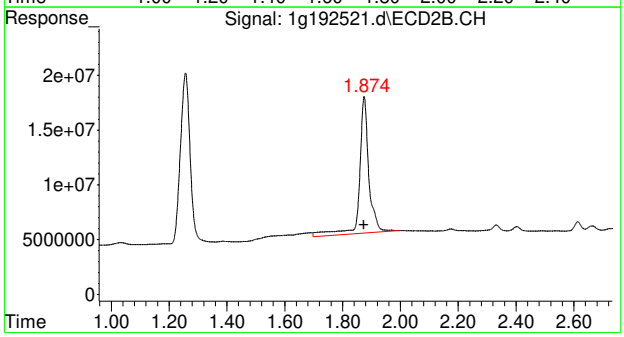
#1 1-bromo-2-nitrobenzene

R.T.: 1.257 min
Delta R.T.: 0.002 min
Response: 358782352
Conc: 50.00 PPB



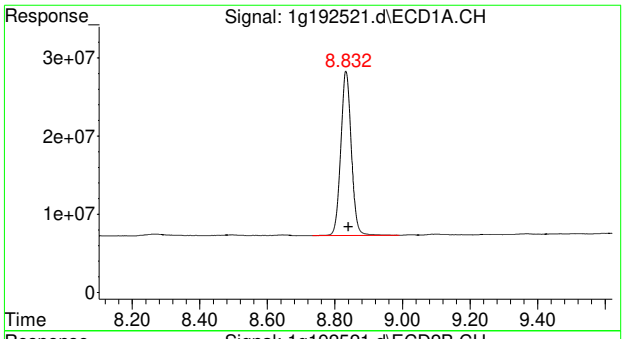
#2 Tetrachloro-m-xylene

R.T.: 1.768 min
Delta R.T.: 0.000 min
Response: 479590507
Conc: 52.04 PPB



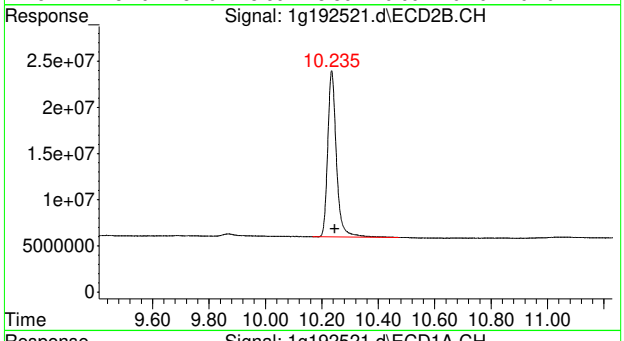
#2 Tetrachloro-m-xylene

R.T.: 1.875 min
Delta R.T.: 0.002 min
Response: 280433182
Conc: 64.70 PPB



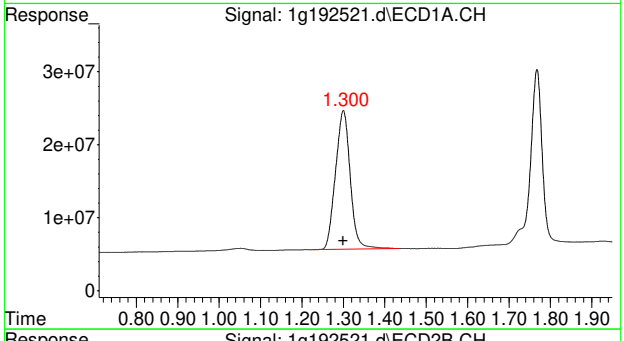
#26 Decachlorobiphenyl

R.T.: 8.833 min
Delta R.T.: -0.006 min
Response: 453949727
Conc: 53.45 PPB



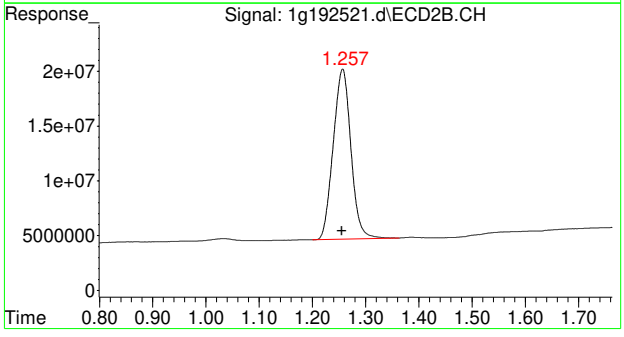
#26 Decachlorobiphenyl

R.T.: 10.235 min
Delta R.T.: -0.011 min
Response: 385490093
Conc: 46.41 PPB



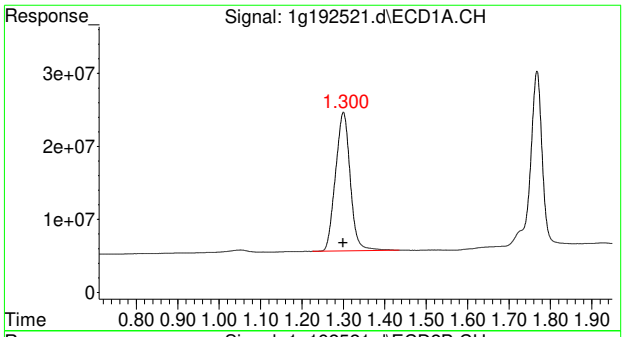
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.300 min
Delta R.T.: 0.001 min
Response: 470128949
Conc: 50.00 PPB



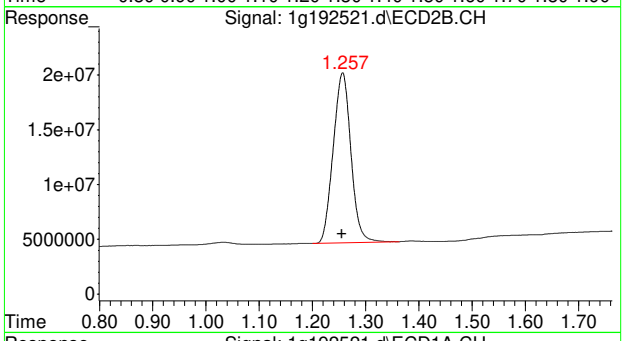
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.257 min
Delta R.T.: 0.002 min
Response: 358782352
Conc: 50.00 PPB



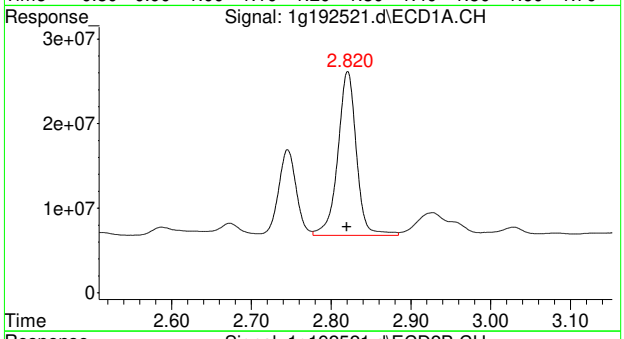
#33 1-bromo-2-nitrobenzeneB

R.T.: 1.300 min
Delta R.T.: 0.001 min
Response: 470128949
Conc: 50.00 PPB



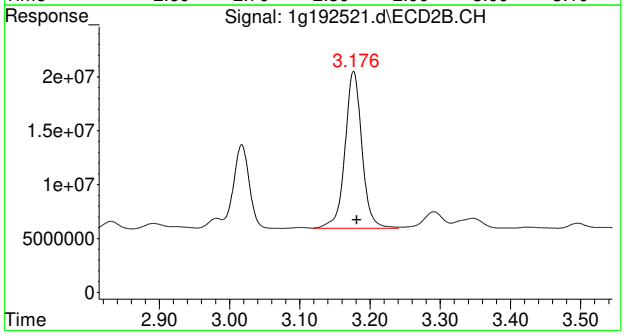
#33 1-bromo-2-nitrobenzeneB

R.T.: 1.257 min
Delta R.T.: 0.002 min
Response: 358782352
Conc: 50.00 PPB



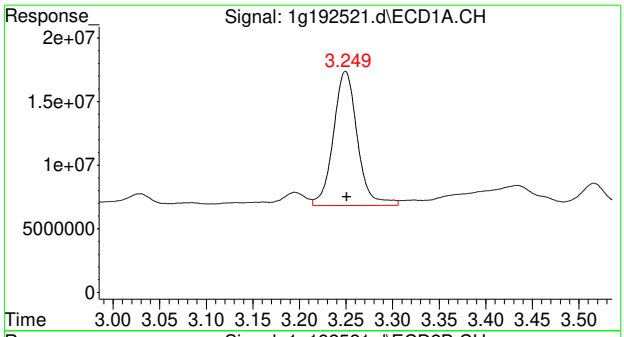
#34 Chlordane {A}

R.T.: 2.821 min
Delta R.T.: 0.000 min
Response: 313959623
Conc: 521.62 PPB



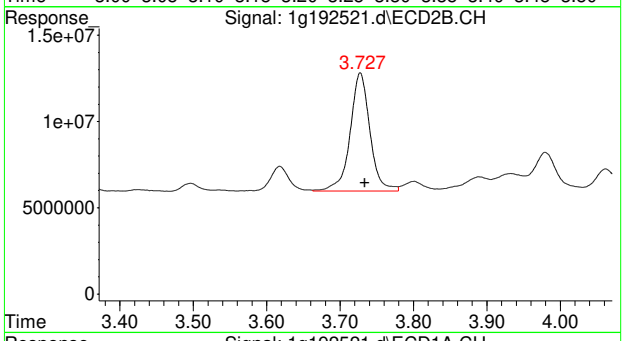
#34 Chlordane {A}

R.T.: 3.177 min
Delta R.T.: -0.004 min
Response: 244553281
Conc: 491.89 PPB



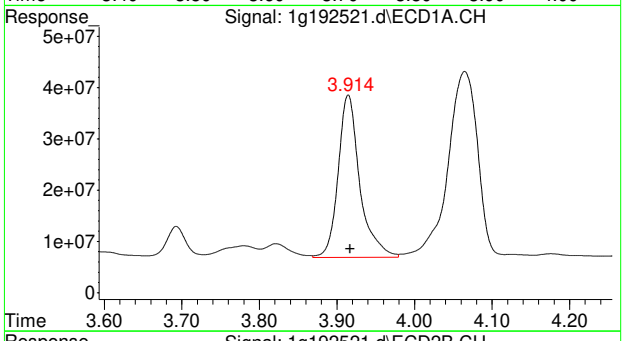
#35 Chlordane {B}

R.T.: 3.249 min
Delta R.T.: -0.001 min
Response: 189280092
Conc: 555.23 PPB



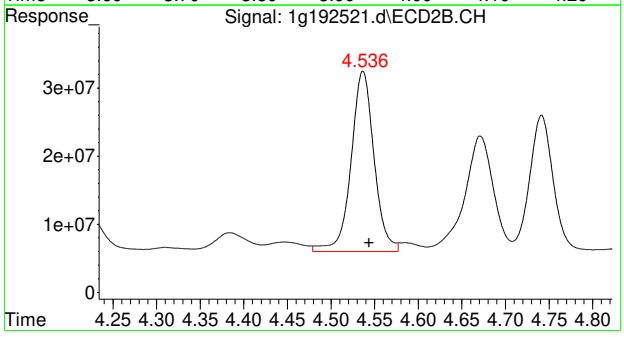
#35 Chlordane {B}

R.T.: 3.727 min
Delta R.T.: -0.006 min
Response: 128492574
Conc: 496.48 PPB



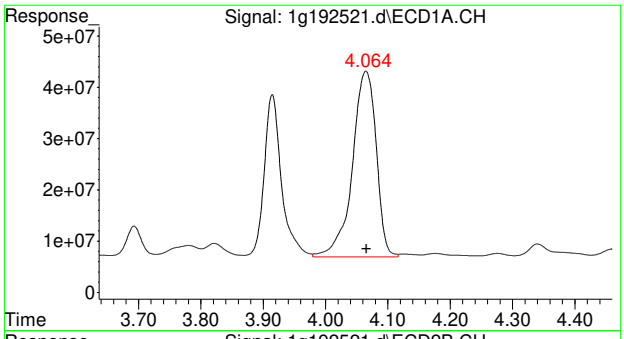
#36 Chlordane {C}

R.T.: 3.915 min
Delta R.T.: -0.002 min
Response: 613414269
Conc: 486.93 PPB



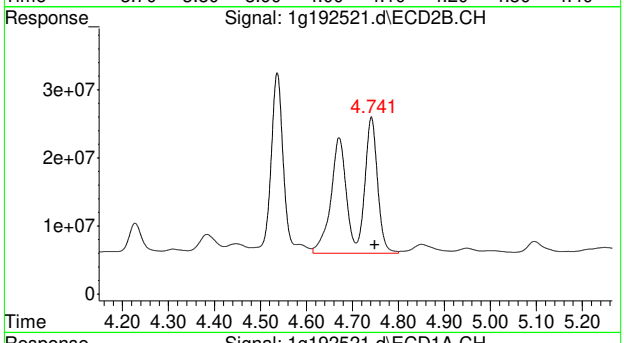
#36 Chlordane {C}

R.T.: 4.537 min
Delta R.T.: -0.007 min
Response: 486042452
Conc: 484.16 PPB



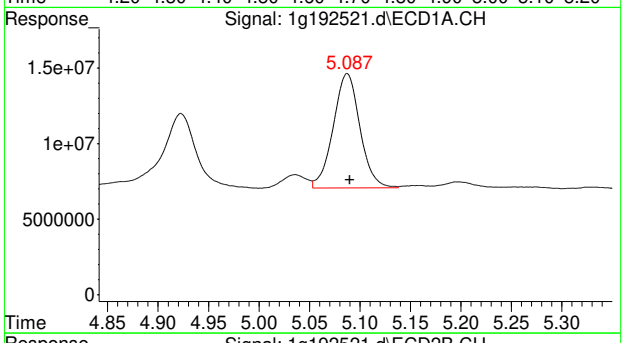
#37 Chlordane {D}

R.T.: 4.065 min
Delta R.T.: 0.000 min
Response: 967669106
Conc: 486.19 PPB



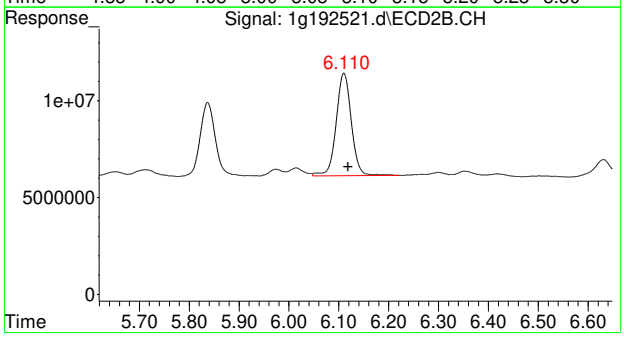
#37 Chlordane {D}

R.T.: 4.741 min
Delta R.T.: -0.007 min
Response: 768931431
Conc: 468.56 PPB m



#38 Chlordane {E}

R.T.: 5.087 min
Delta R.T.: -0.002 min
Response: 139111937
Conc: 468.97 PPB



#38 Chlordane {E}

R.T.: 6.110 min
Delta R.T.: -0.008 min
Response: 112125062
Conc: 471.85 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 01/30/24 10:42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\1G6859\
Data File : 1g192522.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jan 2024 8:28 am
Operator : rebeccak
Sample : ic6859-500 (Toxaphene)
Misc : op51957,g1g6859,250,,,2,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 29 09:41:07 2024
Quant Method : C:\msdchem\1\methods\1PST6859.M
Quant Title : PEST/PCB
QLast Update : Mon Jan 29 09:04:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	1.300	1.257	491.9E6	377.1E6	50.000	50.000
27)	I 1-bromo-2...	1.300	1.257	491.9E6	377.1E6	50.000	50.000
33)	I 1-bromo-2...	1.300	1.257	491.9E6	377.1E6	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.767	1.875	460.9E6	292.3E6	47.797	64.156 #
	Spiked Amount 40.000	Range 30 - 150		Recovery = 119.49%		160.39%#	
26)	SA Decachlor...	8.839	10.249	470.5E6	380.2E6	52.946	43.539
	Spiked Amount 40.000			Recovery = 132.37%		108.85%	
	Target Compounds						
28)	L8 Toxaphene{A}	4.053	5.380	31090748	23654973	558.299	536.109
29)	L8 Toxaphene{B}	4.680	6.183	43153741	103.0E6	550.621m	541.222
30)	L8 Toxaphene{C}	5.352	6.497	84200725	45975306	520.260m	545.176
31)	L8 Toxaphene{D}	5.687	6.629	86923322	83913342	517.664m	537.110m
32)	L8 Toxaphene{E}	6.339	7.507	112.3E6	72108738	522.357m	486.979m
	Sum Toxaphene			357.7E6	328.7E6	2669.200	2646.595
Average	Toxaphene					533.840	529.319

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

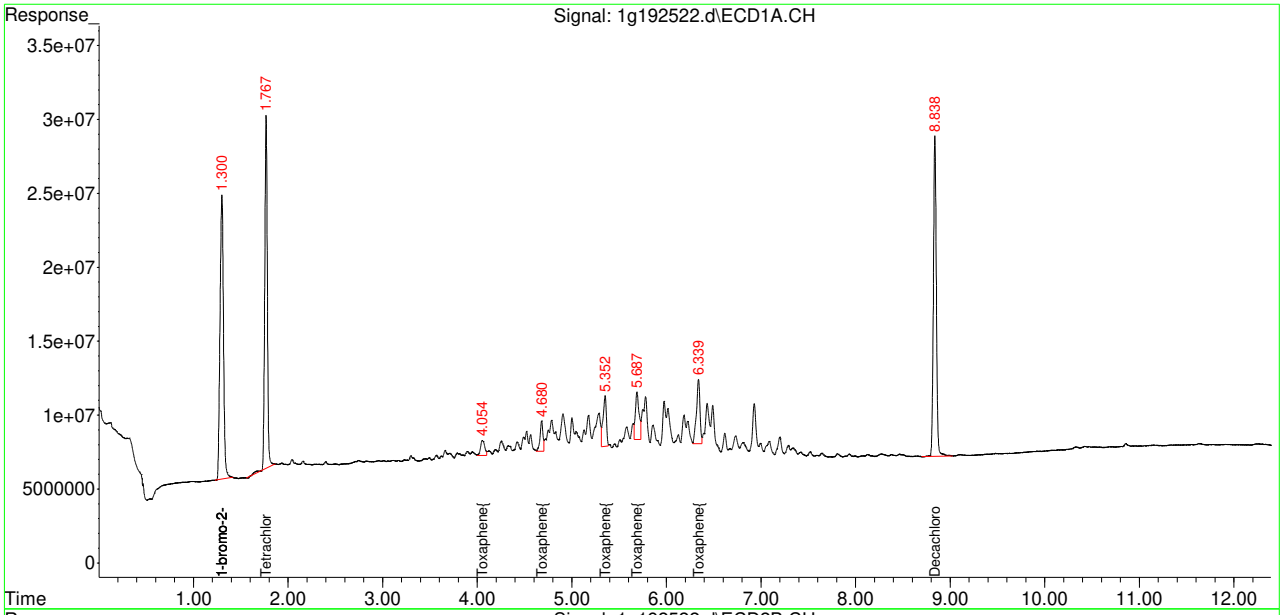
11.3.3 11

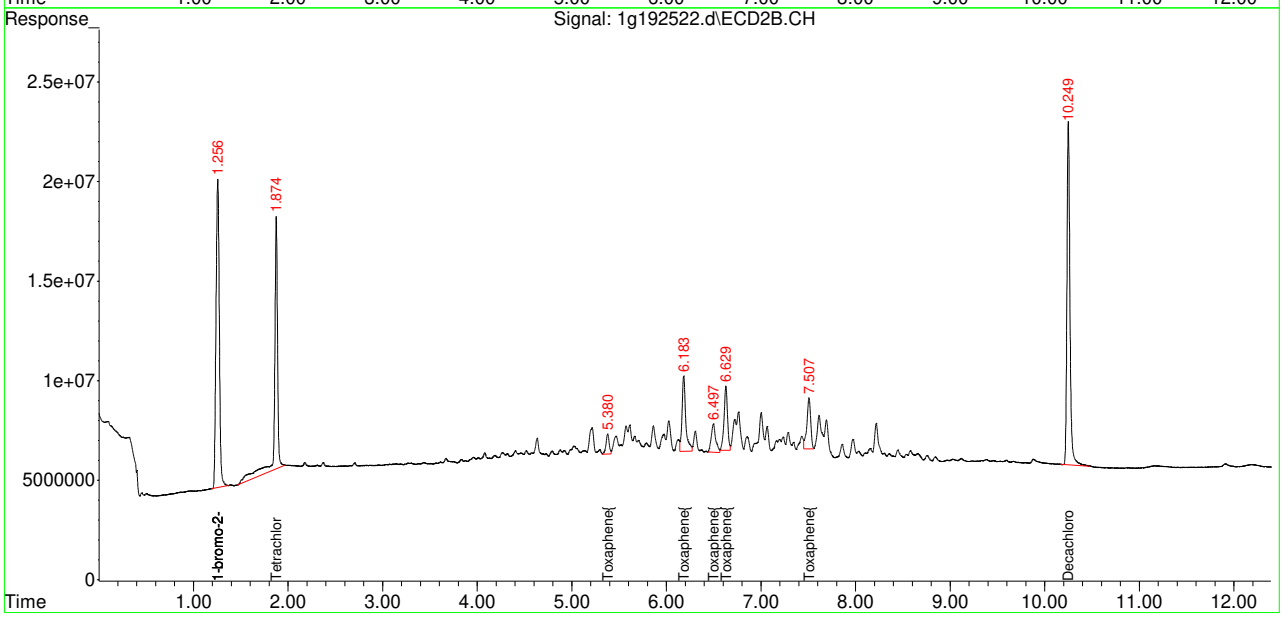
Quantitation Report (QT Reviewed)

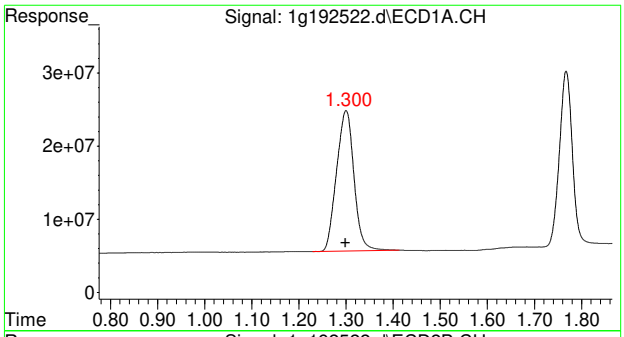
Data Path : C:\msdchem\1\data\1G6859\
Data File : 1g192522.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Jan 2024 8:28 am
Operator : rebeccak
Sample : ic6859-500 (Toxaphene)
Misc : op51957,g1g6859,250,,,2,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 29 09:41:07 2024
Quant Method : C:\msdchem\1\methods\1PST6859.M
Quant Title : PEST/PCB
QLast Update : Mon Jan 29 09:04:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

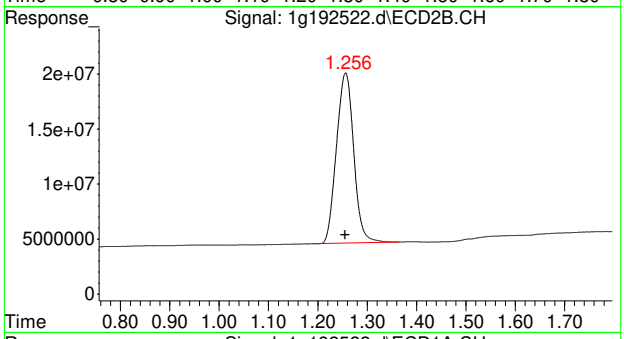






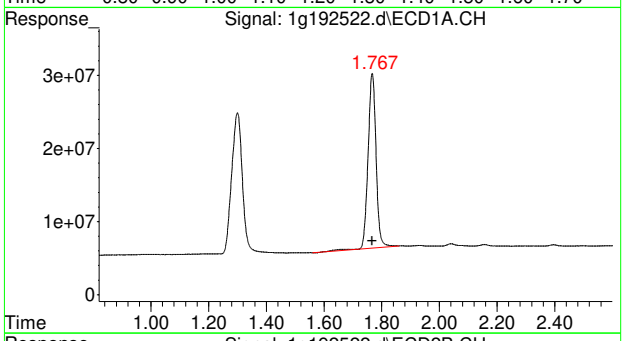
#1 1-bromo-2-nitrobenzene

R.T.: 1.300 min
Delta R.T.: 0.001 min
Response: 491922790
Conc: 50.00 PPB



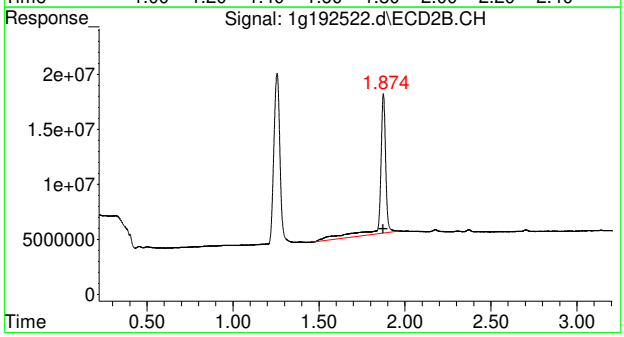
#1 1-bromo-2-nitrobenzene

R.T.: 1.257 min
Delta R.T.: 0.001 min
Response: 377132966
Conc: 50.00 PPB



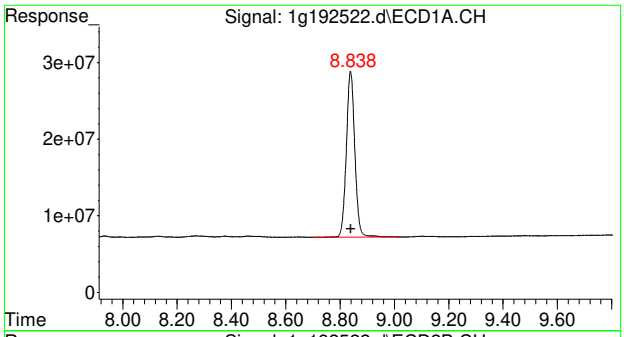
#2 Tetrachloro-m-xylene

R.T.: 1.767 min
Delta R.T.: 0.000 min
Response: 460924633
Conc: 47.80 PPB



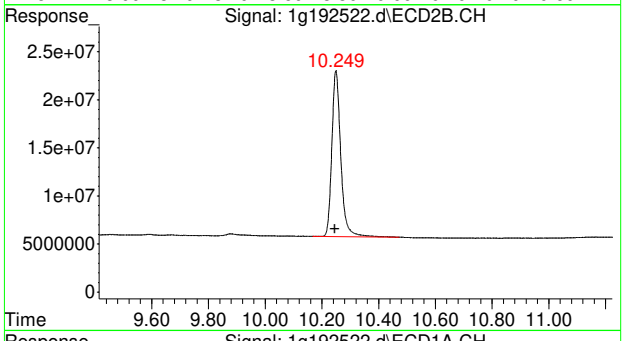
#2 Tetrachloro-m-xylene

R.T.: 1.875 min
Delta R.T.: 0.002 min
Response: 292309434
Conc: 64.16 PPB



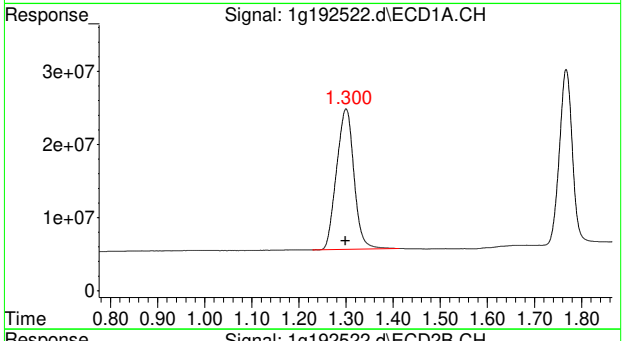
#26 Decachlorobiphenyl

R.T.: 8.839 min
Delta R.T.: 0.000 min
Response: 470549007
Conc: 52.95 PPB



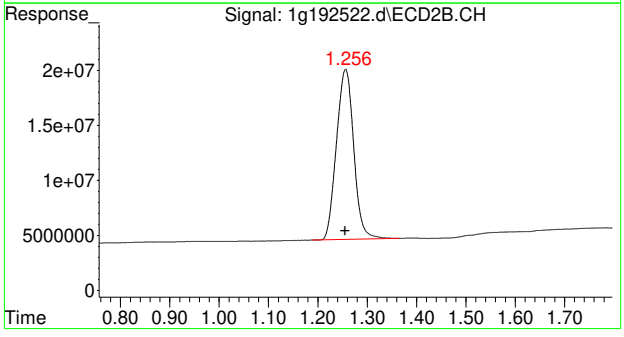
#26 Decachlorobiphenyl

R.T.: 10.249 min
Delta R.T.: 0.004 min
Response: 380168528
Conc: 43.54 PPB



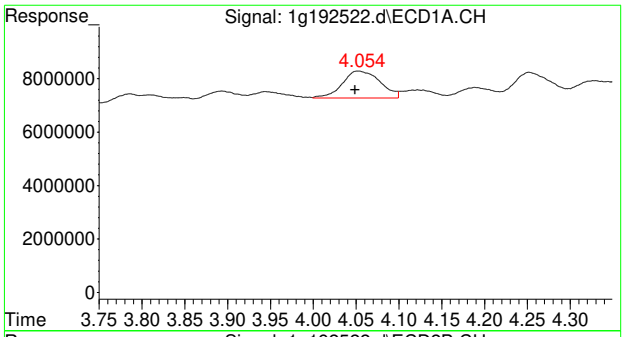
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.300 min
Delta R.T.: 0.001 min
Response: 491922790
Conc: 50.00 PPB



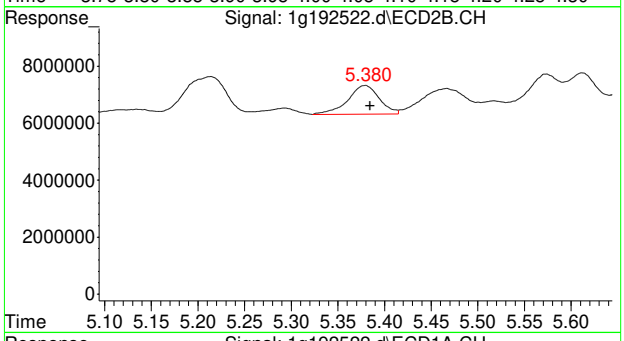
#27 1-bromo-2-nitrobenzeneA

R.T.: 1.257 min
Delta R.T.: 0.001 min
Response: 377132966
Conc: 50.00 PPB



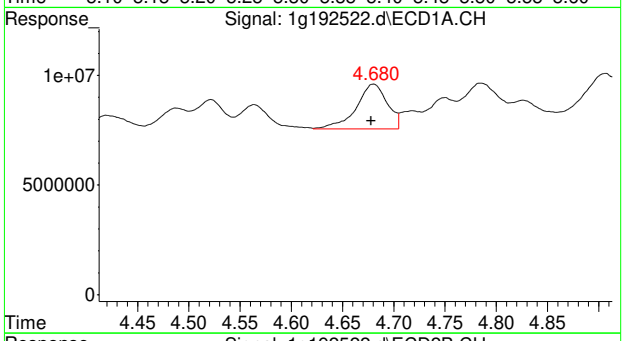
#28 Toxaphene{A}

R.T.: 4.053 min
Delta R.T.: 0.004 min
Response: 31090748
Conc: 558.30 PPB



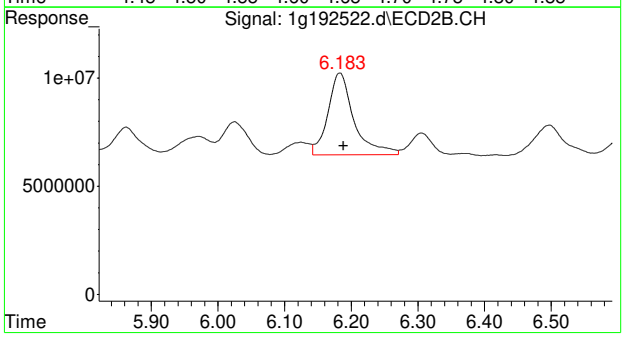
#28 Toxaphene{A}

R.T.: 5.380 min
Delta R.T.: -0.004 min
Response: 23654973
Conc: 536.11 PPB



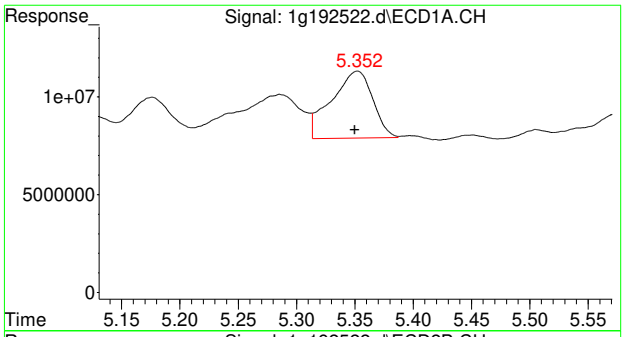
#29 Toxaphene{B}

R.T.: 4.680 min
Delta R.T.: 0.002 min
Response: 43153741
Conc: 550.62 PPB m



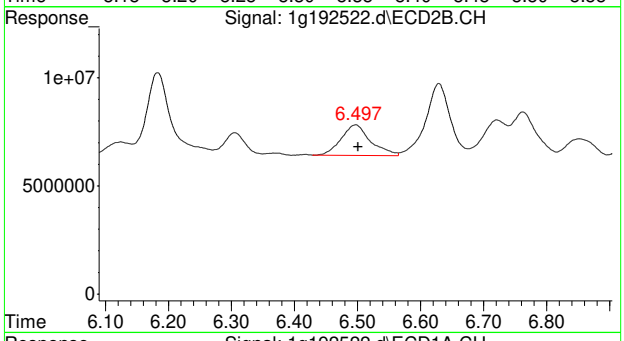
#29 Toxaphene{B}

R.T.: 6.183 min
Delta R.T.: -0.005 min
Response: 103000178
Conc: 541.22 PPB



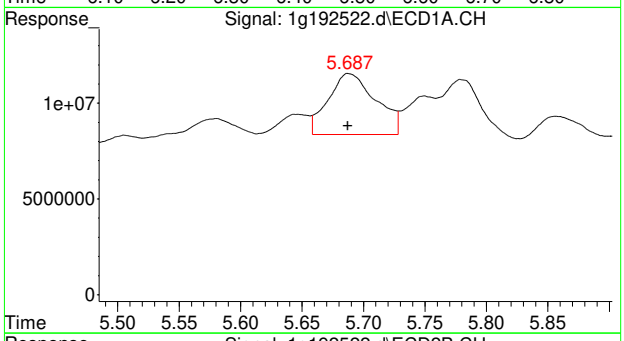
#30 Toxaphene{C}

R.T.: 5.352 min
Delta R.T.: 0.002 min
Response: 84200725
Conc: 520.26 PPB m



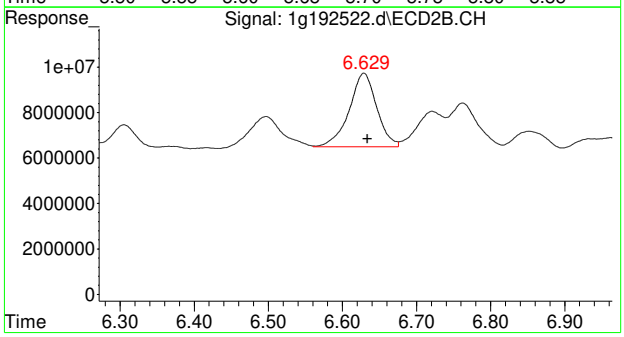
#30 Toxaphene{C}

R.T.: 6.497 min
Delta R.T.: -0.004 min
Response: 45975306
Conc: 545.18 PPB



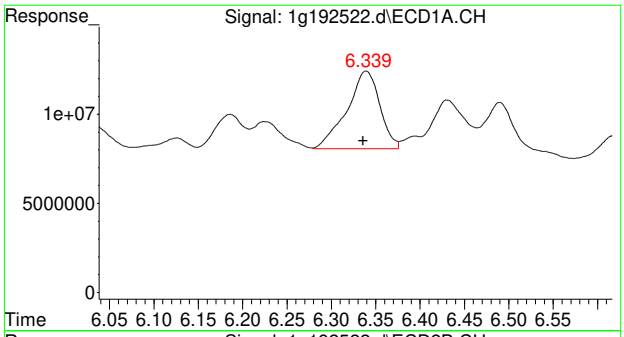
#31 Toxaphene{D}

R.T.: 5.687 min
Delta R.T.: 0.000 min
Response: 86923322
Conc: 517.66 PPB m



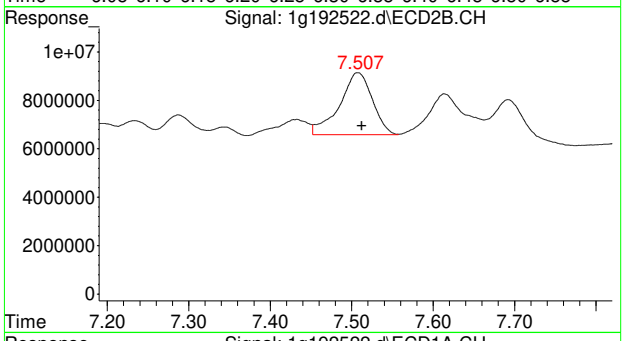
#31 Toxaphene{D}

R.T.: 6.629 min
Delta R.T.: -0.005 min
Response: 83913342
Conc: 537.11 PPB m



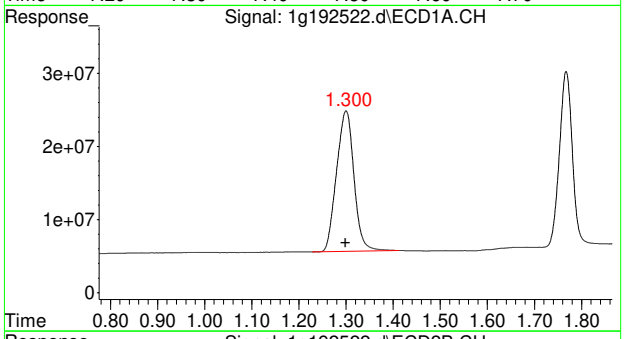
#32 Toxaphene{E}

R.T.: 6.339 min
Delta R.T.: 0.003 min
Response: 112325331
Conc: 522.36 PPB m



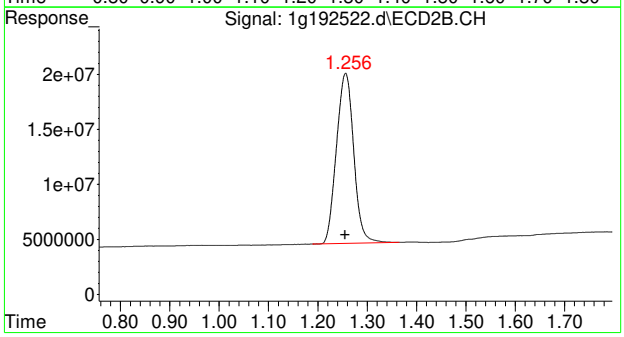
#32 Toxaphene{E}

R.T.: 7.507 min
Delta R.T.: -0.005 min
Response: 72108738
Conc: 486.98 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.300 min
Delta R.T.: 0.001 min
Response: 491922790
Conc: 50.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 1.257 min
Delta R.T.: 0.001 min
Response: 377132966
Conc: 50.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
06/10/24 11:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g4g4352\
Data File : 4g9738052.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2024 6:20 pm
Operator : tilakp
Sample : ic4352-50 (chlordane)
Misc : op53967,g4g4352,5.0,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 06:30:36 2024
Quant Method : C:\msdchem\1\methods\4pstlvi4352a.M
Quant Title : PEST/PCB
QLast Update : Fri Jun 07 06:29:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	5.814	6.099	1131.6E6	5047.3E6	5.000	5.000
27)	I 1-bromo-2...	5.814	6.099	1131.6E6	5047.3E6	5.000	5.000
33)	I 1-bromo-2...	5.814	6.099	1131.6E6	5047.3E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	6.506	7.016	804.8E6	4030.5E6	6.596	2.993 #
	Spiked Amount 40.000	Range 30 - 150		Recovery =		16.49%#	7.48%#
26)	SA Decachlor...	13.987	15.620	801.3E6	2038.6E6	2.446	2.031
	Spiked Amount 40.000			Recovery =		6.12%	5.08%
	Target Compounds						
34)	Chlordane...	7.859	8.791	690.2E6	2981.9E6	38.856	54.689 #
35)	Chlordane...	8.358	9.455	418.2E6	1663.9E6	43.611	38.600
36)	Chlordane...	9.108	10.389	1609.9E6	5696.7E6	38.173	34.379
37)	Chlordane...	9.275	10.618	2479.7E6	9058.0E6	37.848	33.470m
38)	Chlordane...	10.348	12.101	352.4E6	1456.8E6	37.809	40.201
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

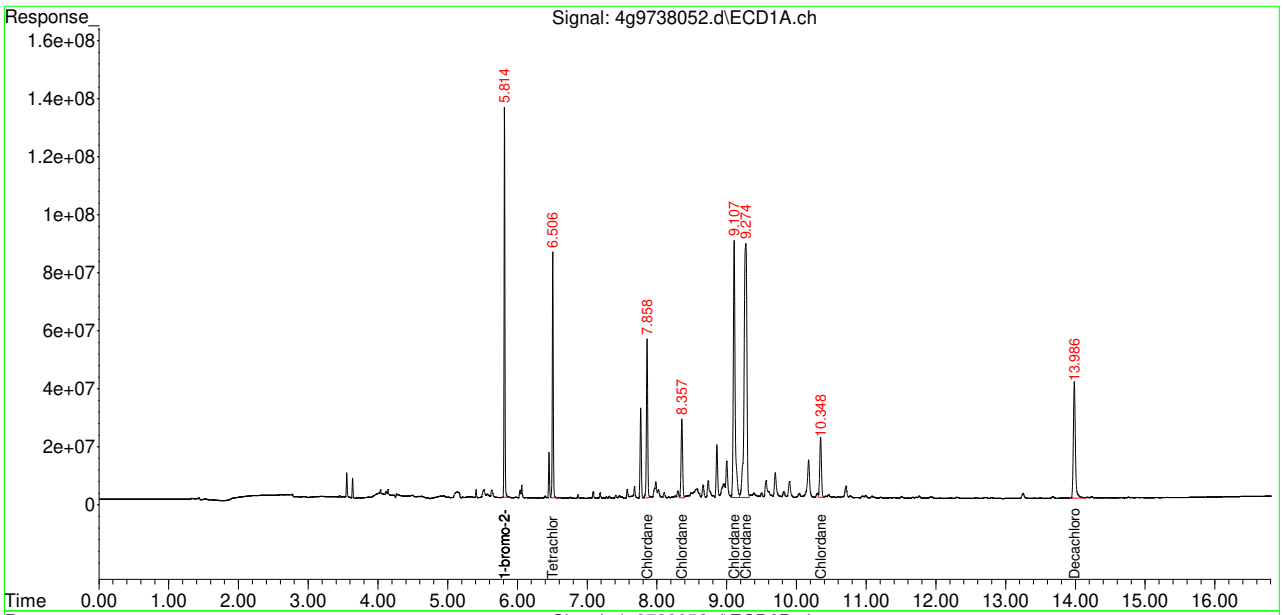
11.3.4 11

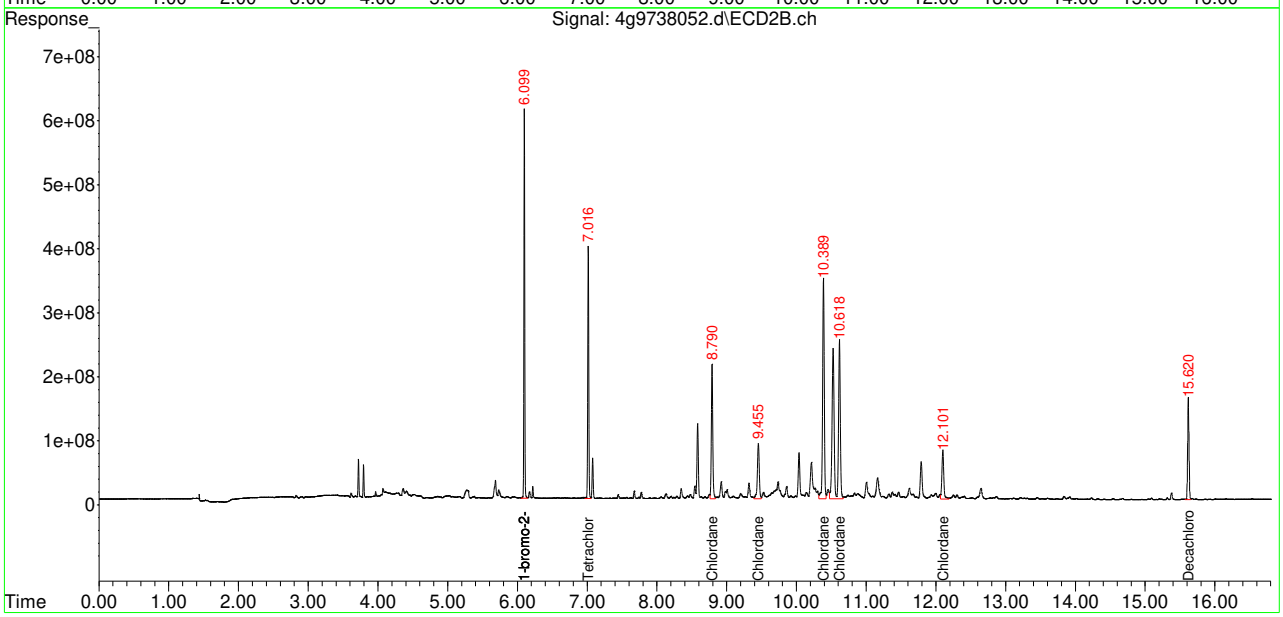
Quantitation Report (QT Reviewed)

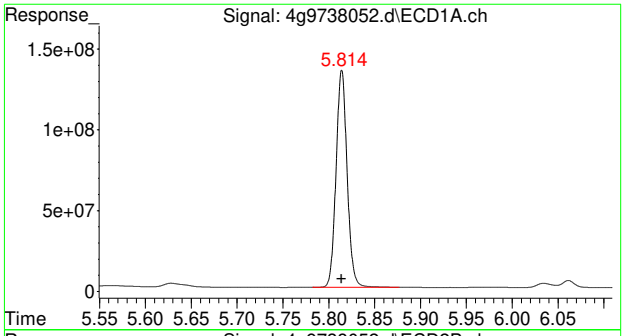
Data Path : C:\msdchem\1\data\g4g4352\
Data File : 4g9738052.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2024 6:20 pm
Operator : tilakp
Sample : ic4352-50 (chlordane)
Misc : op53967,g4g4352,5.0,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 06:30:36 2024
Quant Method : C:\msdchem\1\methods\4pstlvi4352a.M
Quant Title : PEST/PCB
QLast Update : Fri Jun 07 06:29:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

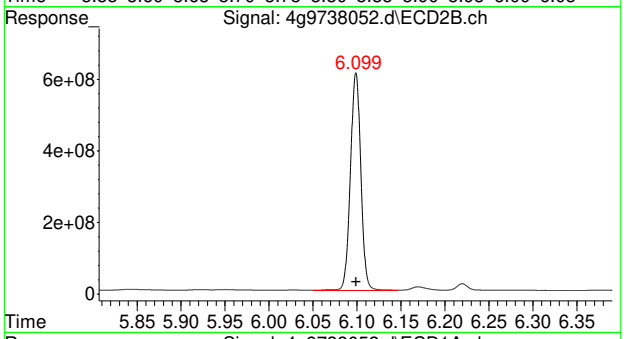






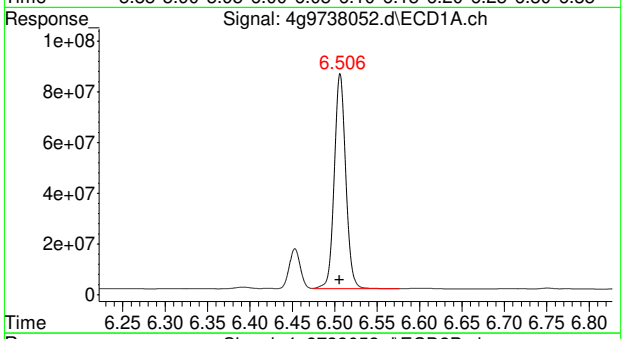
#1 1-bromo-2-nitrobenzene

R.T.: 5.814 min
Delta R.T.: 0.000 min
Response: 1131568576
Conc: 5.00 PPB



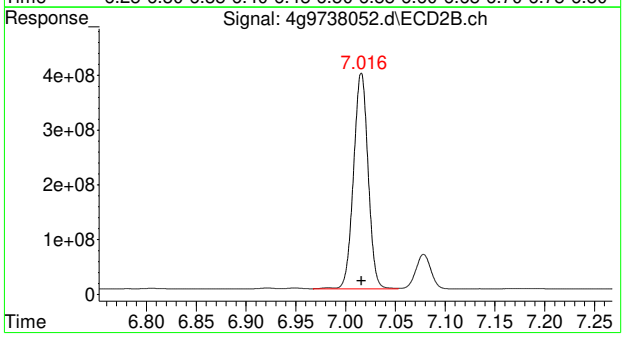
#1 1-bromo-2-nitrobenzene

R.T.: 6.099 min
Delta R.T.: 0.000 min
Response: 5047316774
Conc: 5.00 PPB



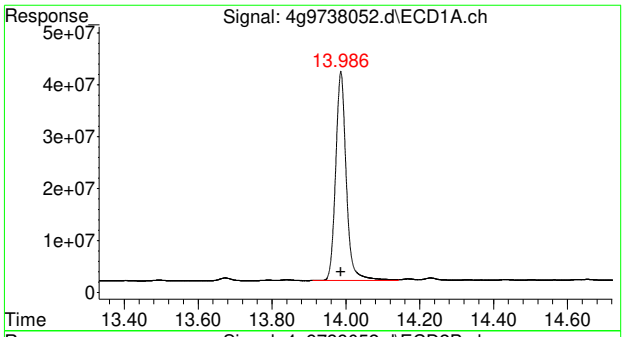
#2 Tetrachloro-m-xylene

R.T.: 6.506 min
Delta R.T.: 0.000 min
Response: 804813732
Conc: 6.60 PPB



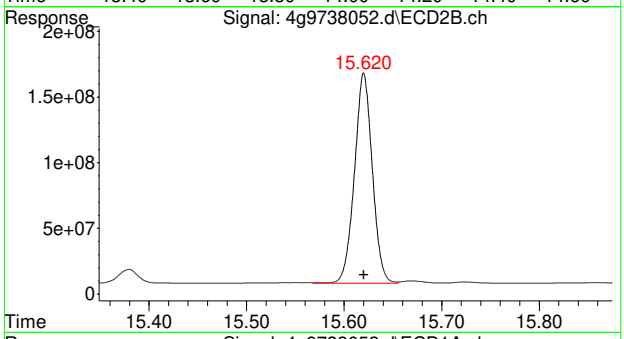
#2 Tetrachloro-m-xylene

R.T.: 7.016 min
Delta R.T.: 0.000 min
Response: 4030483034
Conc: 2.99 PPB



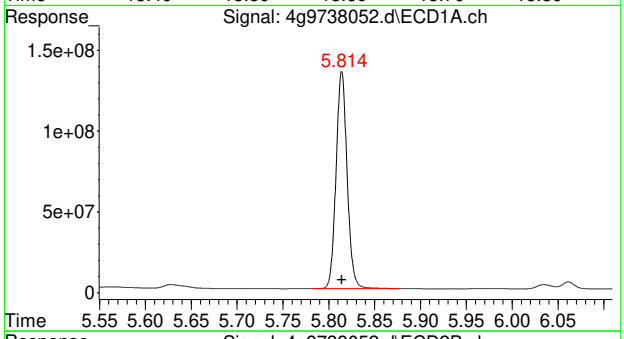
#26 Decachlorobiphenyl

R.T.: 13.987 min
Delta R.T.: 0.000 min
Response: 801272498
Conc: 2.45 PPB



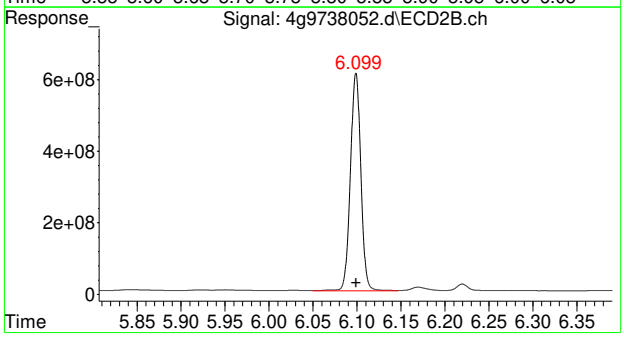
#26 Decachlorobiphenyl

R.T.: 15.620 min
Delta R.T.: 0.000 min
Response: 2038553963
Conc: 2.03 PPB



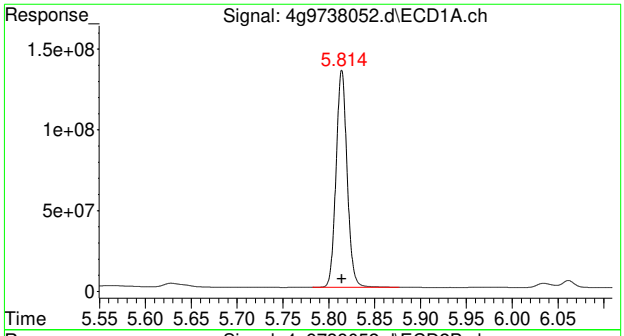
#27 1-bromo-2-nitrobenzeneA

R.T.: 5.814 min
Delta R.T.: 0.000 min
Response: 1131568576
Conc: 5.00 PPB



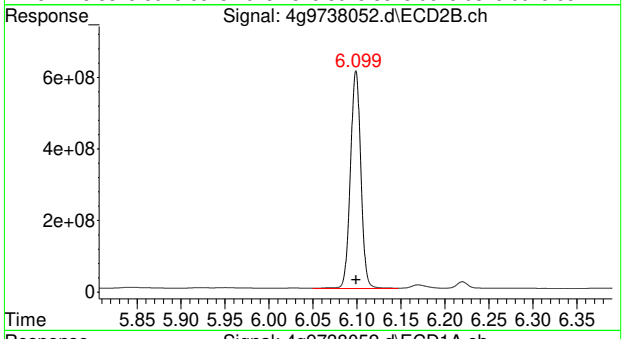
#27 1-bromo-2-nitrobenzeneA

R.T.: 6.099 min
Delta R.T.: 0.000 min
Response: 5047316774
Conc: 5.00 PPB



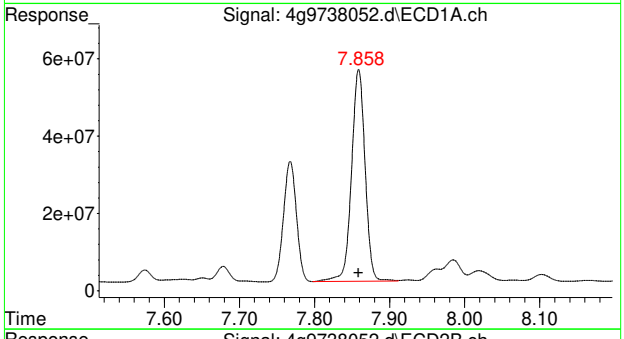
#33 1-bromo-2-nitrobenzeneB

R.T.: 5.814 min
Delta R.T.: 0.000 min
Response: 1131568576
Conc: 5.00 PPB



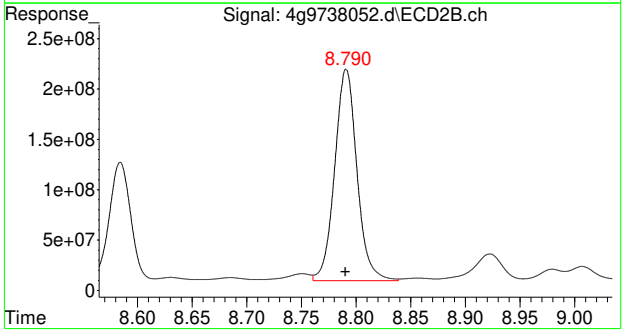
#33 1-bromo-2-nitrobenzeneB

R.T.: 6.099 min
Delta R.T.: 0.000 min
Response: 5047316774
Conc: 5.00 PPB



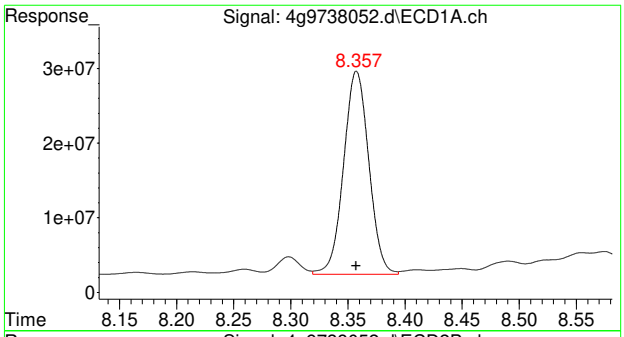
#34 Chlordane {A}

R.T.: 7.859 min
Delta R.T.: 0.000 min
Response: 690227665
Conc: 38.86 PPB



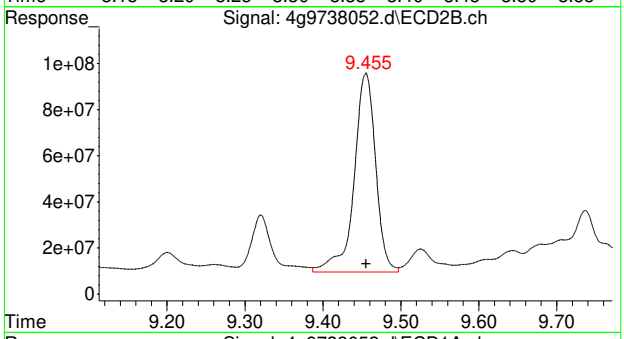
#34 Chlordane {A}

R.T.: 8.791 min
Delta R.T.: 0.000 min
Response: 2981922950
Conc: 54.69 PPB



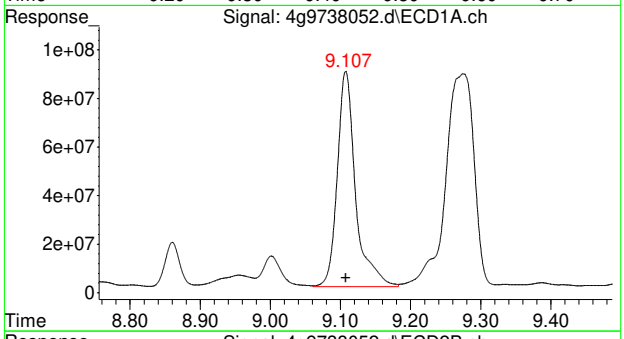
#35 Chlordane {B}

R.T.: 8.358 min
Delta R.T.: 0.000 min
Response: 418216856
Conc: 43.61 PPB



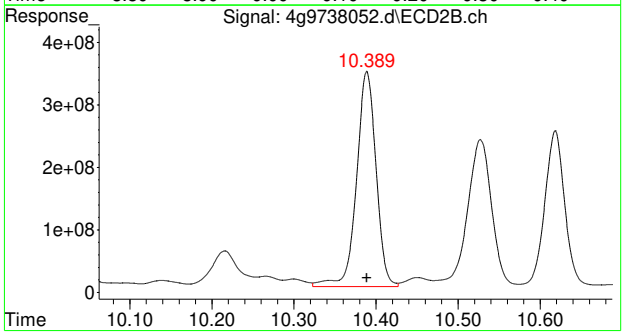
#35 Chlordane {B}

R.T.: 9.455 min
Delta R.T.: 0.000 min
Response: 1663856077
Conc: 38.60 PPB



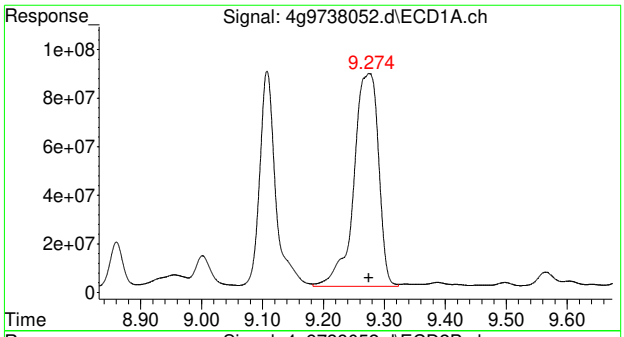
#36 Chlordane {C}

R.T.: 9.108 min
Delta R.T.: 0.000 min
Response: 1609922838
Conc: 38.17 PPB



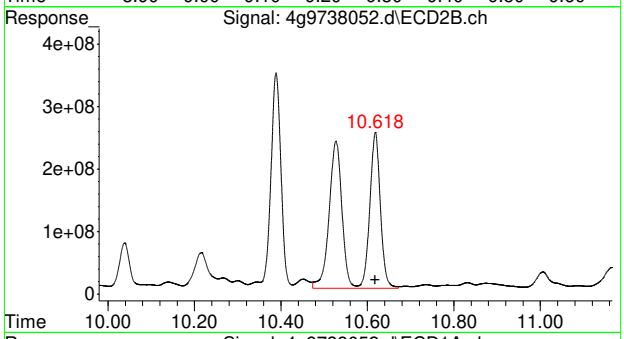
#36 Chlordane {C}

R.T.: 10.389 min
Delta R.T.: 0.000 min
Response: 5696720048
Conc: 34.38 PPB



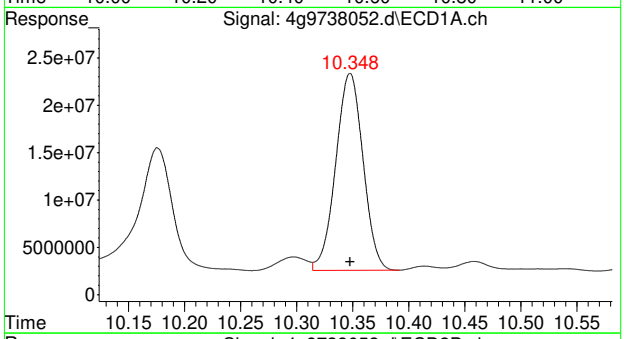
#37 Chlordane {D}

R.T.: 9.275 min
Delta R.T.: 0.001 min
Response: 2479660665
Conc: 37.85 PPB



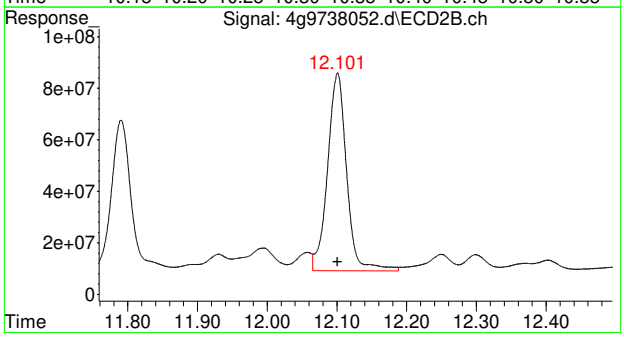
#37 Chlordane {D}

R.T.: 10.618 min
Delta R.T.: 0.000 min
Response: 9058028575
Conc: 33.47 PPB m



#38 Chlordane {E}

R.T.: 10.348 min
Delta R.T.: 0.000 min
Response: 352364226
Conc: 37.81 PPB



#38 Chlordane {E}

R.T.: 12.101 min
Delta R.T.: 0.000 min
Response: 1456761889
Conc: 40.20 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/10/24 11:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g4g4352\
Data File : 4g9738053.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2024 6:42 pm
Operator : tilakp
Sample : ic4352-50 (toxaphene)
Misc : op53967,g4g4352,5.0,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 06:40:15 2024
Quant Method : C:\msdchem\1\methods\4pstlvi4352a.M
Quant Title : PEST/PCB
QLast Update : Fri Jun 07 06:37:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	5.813	6.098	1056.8E6	4666.9E6	5.000	5.000
27)	I 1-bromo-2...	5.813	6.098	1056.8E6	4666.9E6	5.000	5.000
33)	I 1-bromo-2...	5.813	6.098	1056.8E6	4666.9E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	6.506	7.015	789.3E6	3927.9E6	6.927	3.154 #
	Spiked Amount 40.000	Range 30 - 150		Recovery =		17.32%#	7.89%#
26)	SA Decachlor...	13.986	15.620	795.9E6	2031.1E6	2.601	2.189
	Spiked Amount 40.000			Recovery =		6.50%	5.47%
	Target Compounds						
28)	L8 Toxaphene{A}	8.261	11.294	11777029	282.6E6	7.381m	59.234m#
29)	L8 Toxaphene{B}	10.950	12.473	98737810	387.2E6	37.986m	58.534m#
30)	L8 Toxaphene{C}	11.293	12.594	122.7E6	881.7E6	64.793m	125.265m#
31)	L8 Toxaphene{D}	11.458	13.056	221.9E6	356.0E6	32.846m	17.780m#
32)	L8 Toxaphene{E}	11.606	13.504	299.2E6	1228.2E6	46.912m	40.270m
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

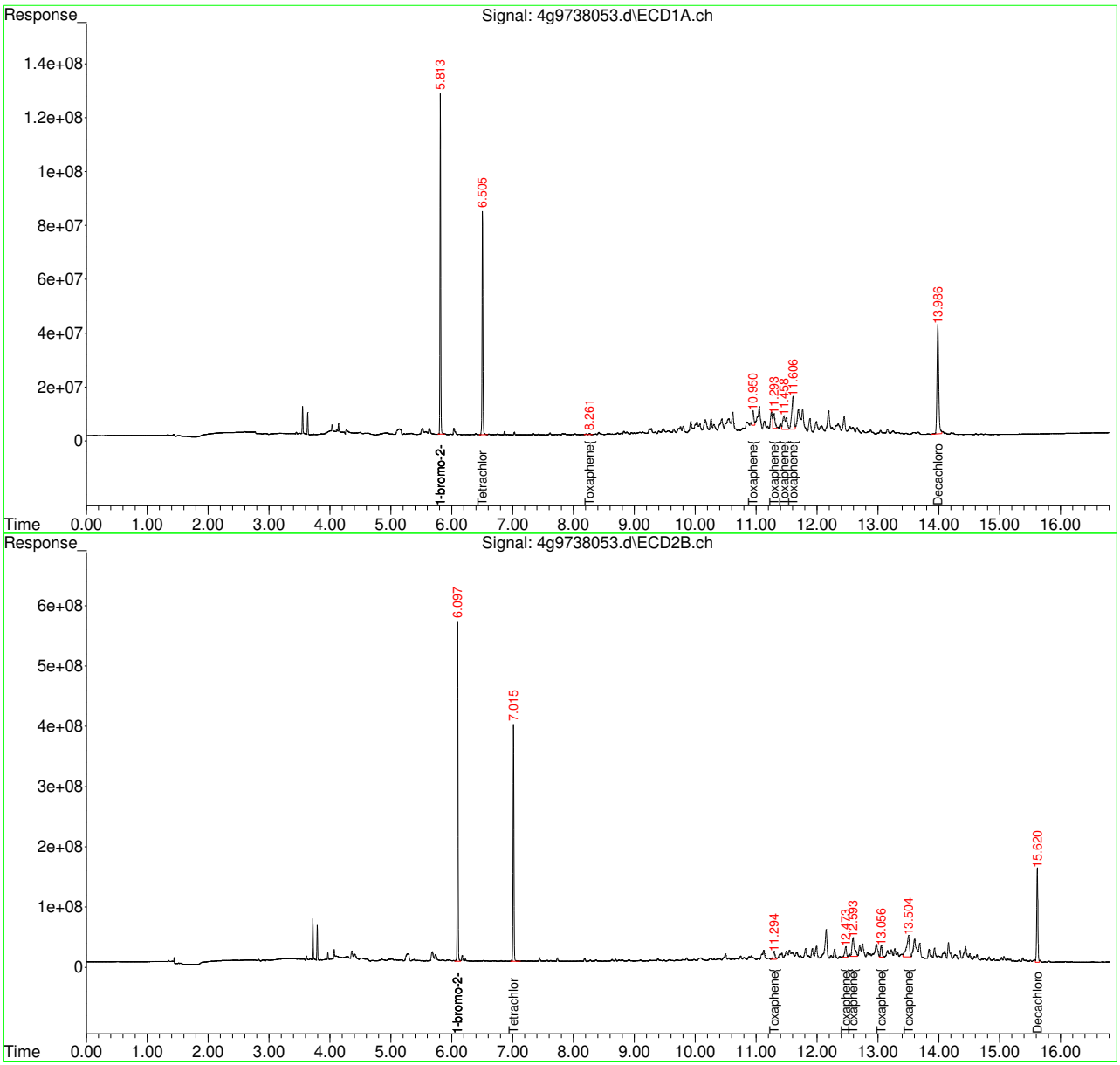
11.3.5 11

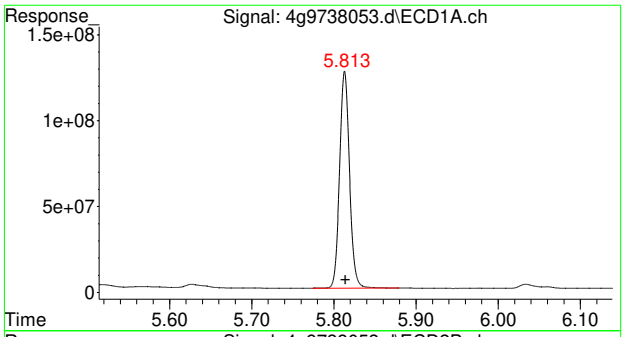
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g4g4352\
Data File : 4g9738053.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2024 6:42 pm
Operator : tilakp
Sample : ic4352-50 (toxaphene)
Misc : op53967,g4g4352,5.0,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 06:40:15 2024
Quant Method : C:\msdchem\1\methods\4pstlvi4352a.M
Quant Title : PEST/PCB
QLast Update : Fri Jun 07 06:37:06 2024
Response via : Initial Calibration
Integrator: ChemStation

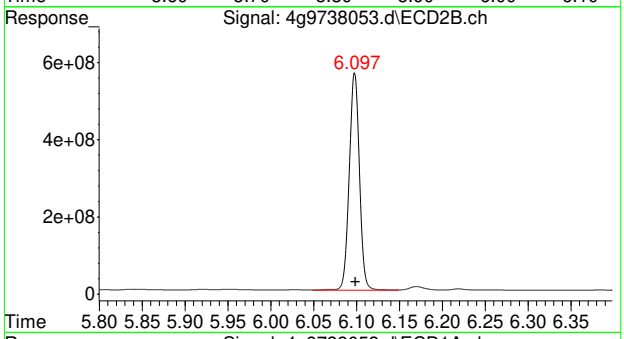
Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





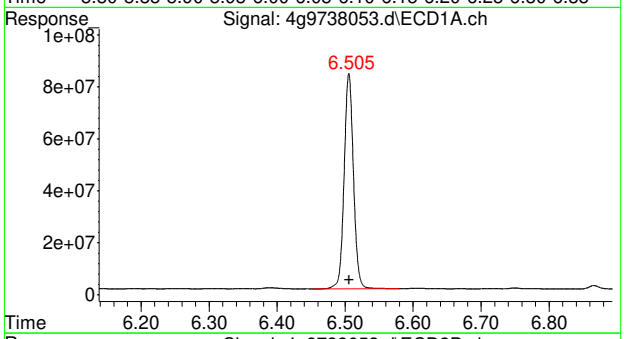
#1 1-bromo-2-nitrobenzene

R.T.: 5.813 min
Delta R.T.: 0.000 min
Response: 1056833987
Conc: 5.00 PPB



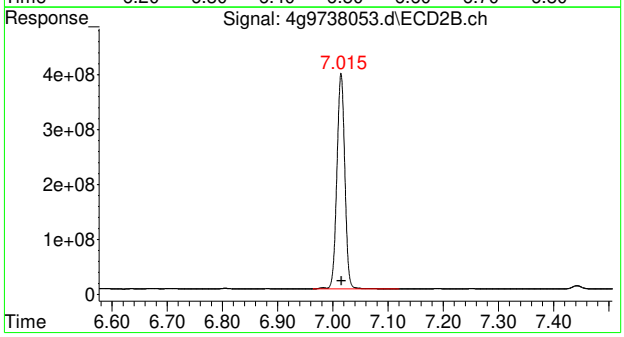
#1 1-bromo-2-nitrobenzene

R.T.: 6.098 min
Delta R.T.: -0.001 min
Response: 4666882140
Conc: 5.00 PPB



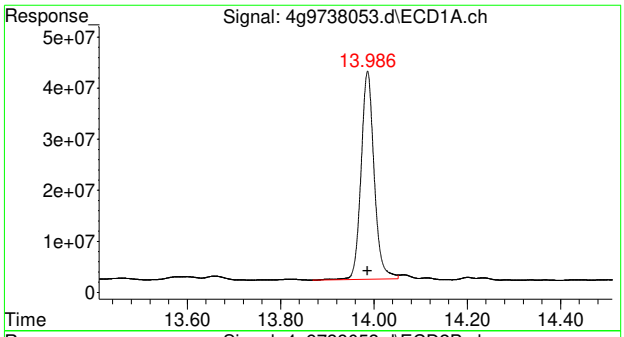
#2 Tetrachloro-m-xylene

R.T.: 6.506 min
Delta R.T.: 0.000 min
Response: 789284414
Conc: 6.93 PPB



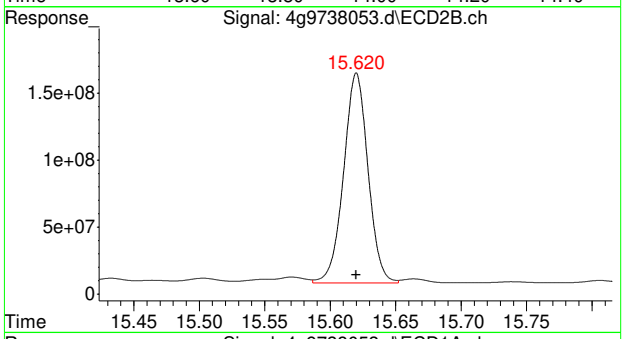
#2 Tetrachloro-m-xylene

R.T.: 7.015 min
Delta R.T.: 0.000 min
Response: 3927850078
Conc: 3.15 PPB



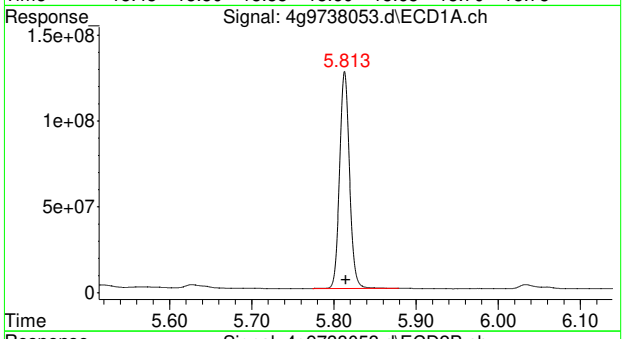
#26 Decachlorobiphenyl

R.T.: 13.986 min
Delta R.T.: 0.000 min
Response: 795924934
Conc: 2.60 PPB



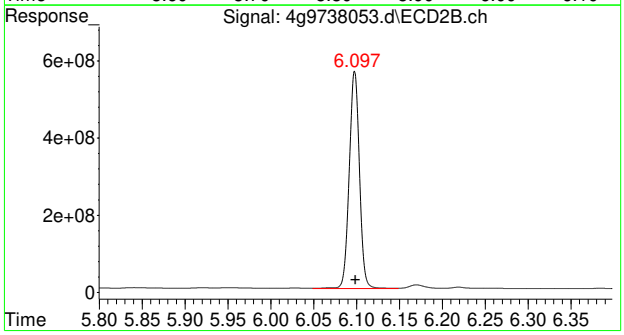
#26 Decachlorobiphenyl

R.T.: 15.620 min
Delta R.T.: 0.000 min
Response: 2031120969
Conc: 2.19 PPB



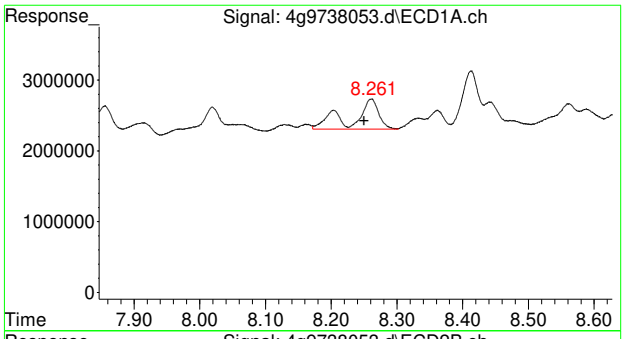
#27 1-bromo-2-nitrobenzeneA

R.T.: 5.813 min
Delta R.T.: -0.001 min
Response: 1056833987
Conc: 5.00 PPB



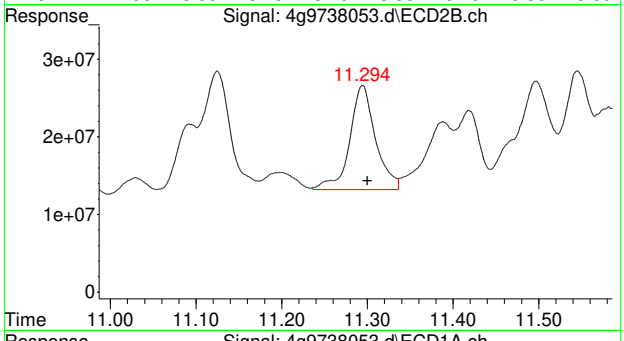
#27 1-bromo-2-nitrobenzeneA

R.T.: 6.098 min
Delta R.T.: -0.001 min
Response: 4666882140
Conc: 5.00 PPB



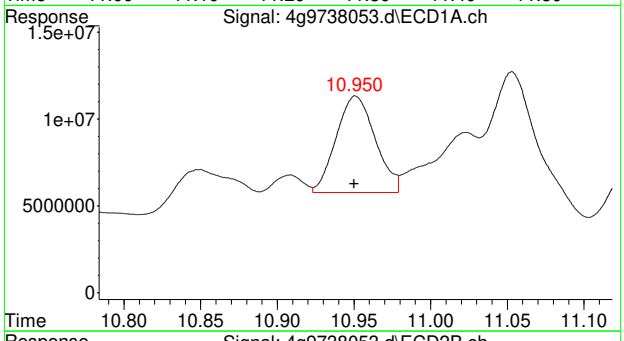
#28 Toxaphene{A}

R.T.: 8.261 min
Delta R.T.: 0.011 min
Response: 11777029
Conc: 7.38 PPB m



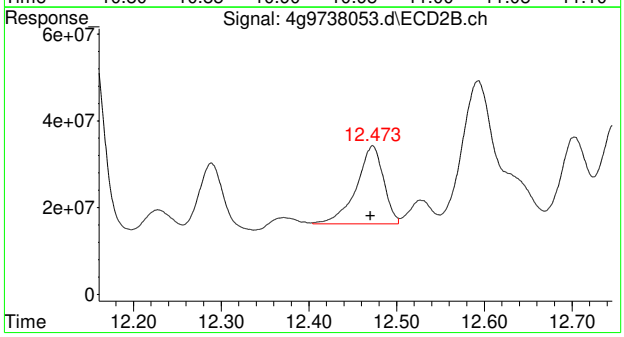
#28 Toxaphene{A}

R.T.: 11.294 min
Delta R.T.: -0.006 min
Response: 282621269
Conc: 59.23 PPB m



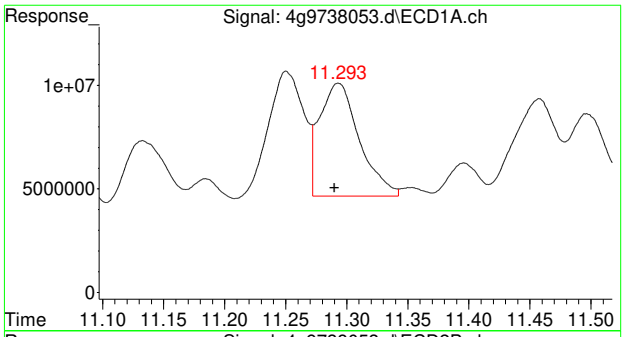
#29 Toxaphene{B}

R.T.: 10.950 min
Delta R.T.: 0.000 min
Response: 98737810
Conc: 37.99 PPB m



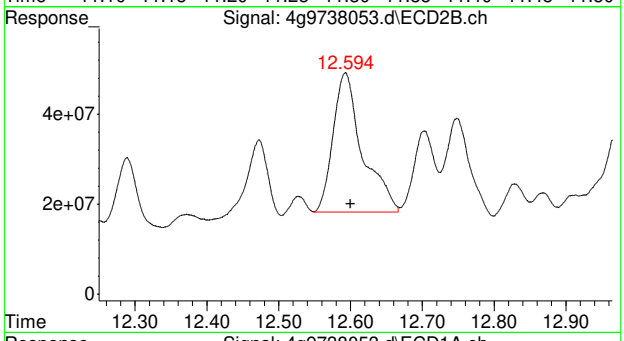
#29 Toxaphene{B}

R.T.: 12.473 min
Delta R.T.: 0.003 min
Response: 387156397
Conc: 58.53 PPB m



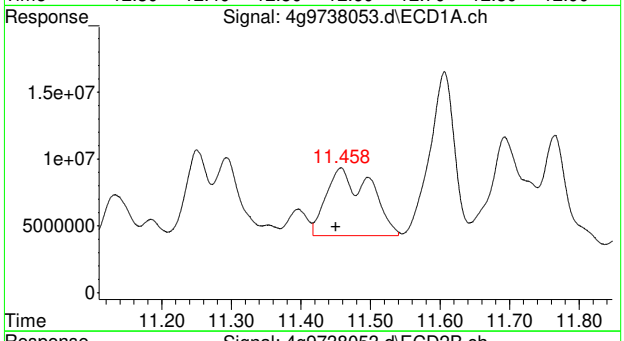
#30 Toxaphene{C}

R.T.: 11.293 min
Delta R.T.: 0.003 min
Response: 122745956
Conc: 64.79 PPB m



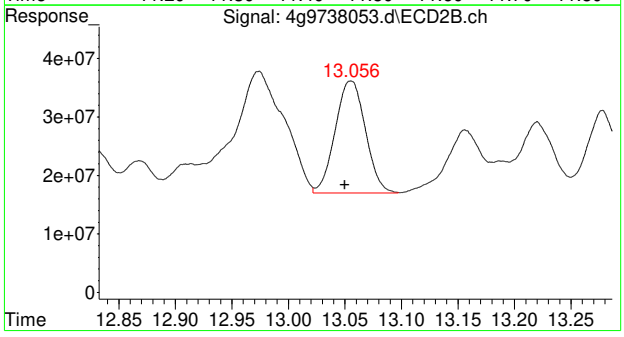
#30 Toxaphene{C}

R.T.: 12.594 min
Delta R.T.: -0.006 min
Response: 881686736
Conc: 125.27 PPB m



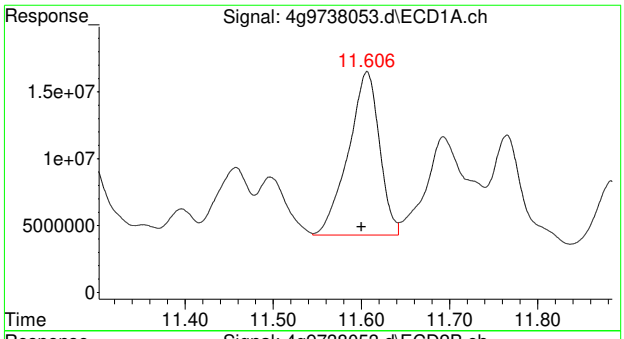
#31 Toxaphene{D}

R.T.: 11.458 min
Delta R.T.: 0.008 min
Response: 221860261
Conc: 32.85 PPB m



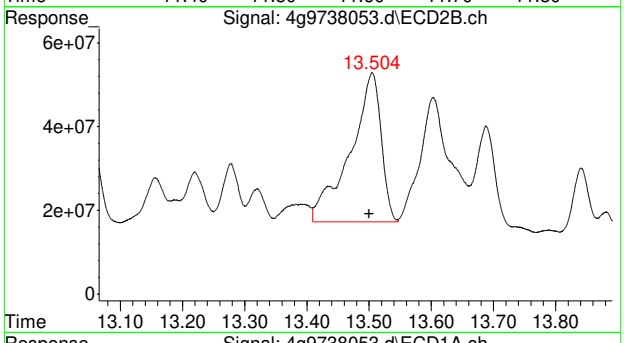
#31 Toxaphene{D}

R.T.: 13.056 min
Delta R.T.: 0.006 min
Response: 356043437
Conc: 17.78 PPB m



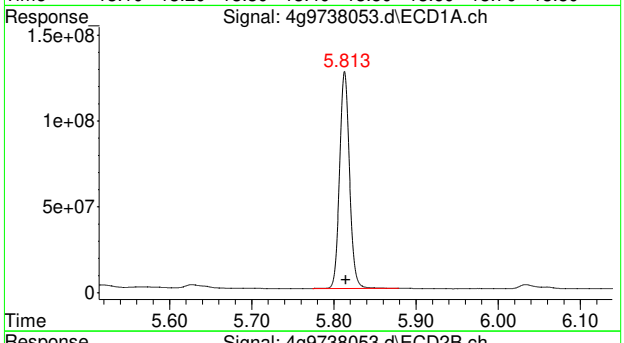
#32 Toxaphene{E}

R.T.: 11.606 min
Delta R.T.: 0.006 min
Response: 299164818
Conc: 46.91 PPB m



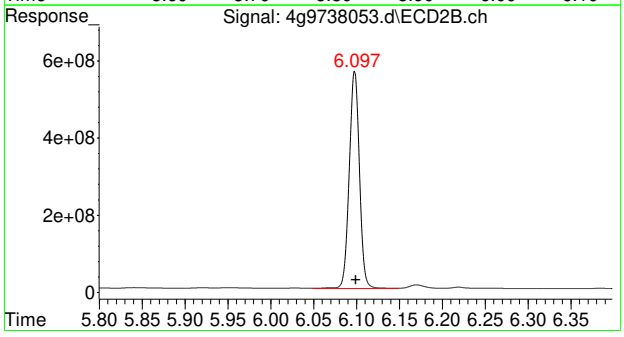
#32 Toxaphene{E}

R.T.: 13.504 min
Delta R.T.: 0.004 min
Response: 1228186786
Conc: 40.27 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 5.813 min
Delta R.T.: -0.001 min
Response: 1056833987
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 6.098 min
Delta R.T.: -0.001 min
Response: 4666882140
Conc: 5.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
06/10/24 11:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g4g4352\
Data File : 4g9738058.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2024 8:33 pm
Operator : tilakp
Sample : icc4352-2.5 (pest mix)
Misc : op53967,g4g4352,5.0,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 06:17:38 2024
Quant Method : C:\msdchem\1\methods\4pstlvi4352a.M
Quant Title : PEST/PCB
QLast Update : Fri Jun 07 06:14:08 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
		Internal Standards							
1)	I	1-bromo-2...	5.813	6.099	960.5E6	4350.1E6	5.000	5.000	
27)	I	1-bromo-2...	5.813	6.099	960.5E6	4350.1E6	5.000	5.000	
33)	I	1-bromo-2...	5.813	6.099	960.5E6	4350.1E6	5.000	5.000	
		System Monitoring Compounds							
2)	SAB	Tetrachlo...	6.506	7.016	406.7E6	2109.6E6	3.927	1.817	#
		Spiked Amount	40.000	Range 30 - 150		Recovery =	9.82%#	4.54%#	
26)	SA	Decachlor...	13.987	15.621	424.3E6	1104.9E6	1.526	1.277	
		Spiked Amount	40.000			Recovery =	3.82%	3.19%	
		Target Compounds							
3)		hexachlor...	6.866	7.563	500.8E6	2276.0E6	1.352	1.393	
4)	A	alpha-BHC	7.026	7.735	807.7E6	3623.5E6	2.216	1.921	
5)	MA	gamma-BHC	7.340	8.187	715.4E6	3168.0E6	2.258	1.876	
6)	MA	Heptachlor	7.857	8.791	654.2E6	2759.8E6	1.925	2.645	#
7)	B	beta-BHC	7.422	8.273	279.5E6	1283.2E6	2.420	1.712	#
8)	B	delta-BHC	7.613	8.687	729.5E6	3181.6E6	1.977	1.923	
9)	MB	Aldrin	8.203	9.258	684.9E6	2716.8E6	2.044	1.738	
10)		alachlor	8.369	9.060	74366464	348.2E6	2.800	2.171	
11)	B	Heptachlo...	8.943	10.100	606.1E6	2454.3E6	1.999	1.719	
12)	B	gamma-Chl...	9.106	10.390	626.8E6	2409.7E6	1.933m	1.601	
13)	B	alpha-Chl...	9.282	10.618	613.2E6	2304.0E6	2.001	1.574	
14)	A	Endosulfan I	9.466	10.716	579.2E6	2279.4E6	1.899	1.884	
15)	B	4,4'-DDE	9.394	10.879	591.2E6	2349.7E6	2.151	1.763	
16)	MA	Dieldrin	9.793	11.159	634.8E6	2450.5E6	1.965	1.752	
17)	MA	Endrin	10.120	11.667	548.1E6	2088.8E6	1.931	2.036	
18)	A	4,4'-DDD	10.238	11.836	462.5E6	1885.4E6	1.938	2.221	
19)	B	Endosulfa...	10.446	12.018	531.9E6	2018.4E6	1.955	1.662	
20)	MA	4,4'-DDT	10.658	12.375	430.3E6	1864.7E6	1.970	2.098	
21)	B	Endrin Al...	11.083	12.594	373.8E6	1480.5E6	1.849	1.666	
22)	B	Endosulfa...	11.775	13.065	473.1E6	1984.9E6	1.799	1.646	
23)	A	Methoxychlor	11.440	13.618	197.7E6	932.2E6	1.798	2.565	#
24)		Mirex	11.600	13.959	376.8E6	1251.1E6	1.993	1.469	#
25)	B	Endrin Ke...	12.212	14.011	578.1E6	1977.9E6	1.978	1.605	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

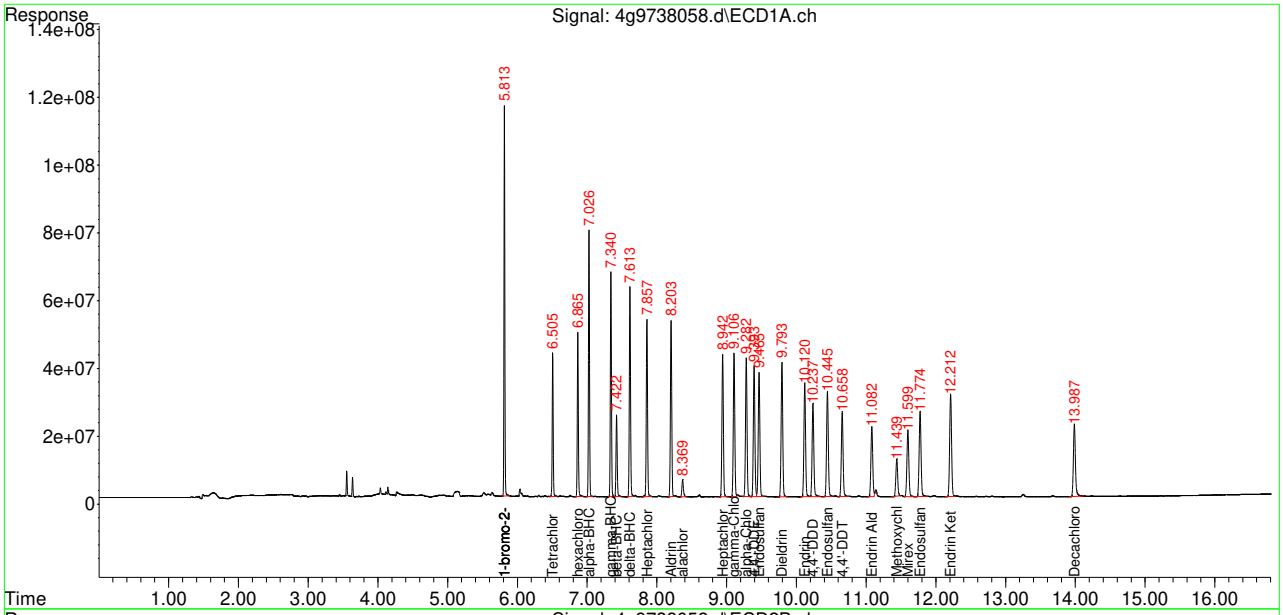
11.3.6 11

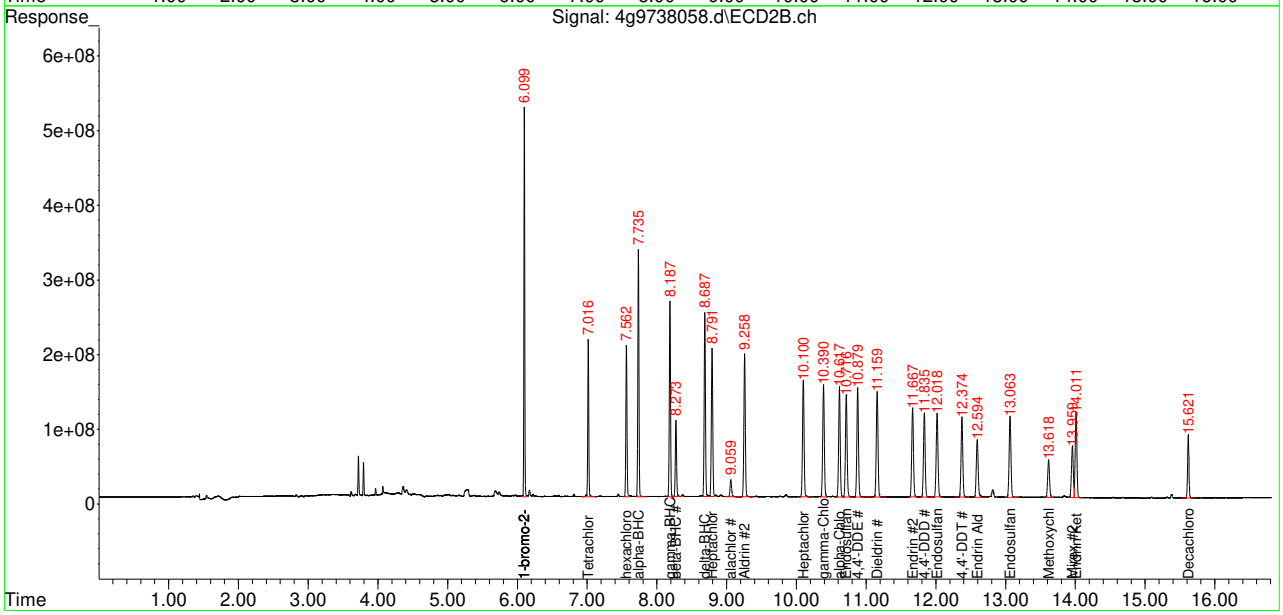
Quantitation Report (QT Reviewed)

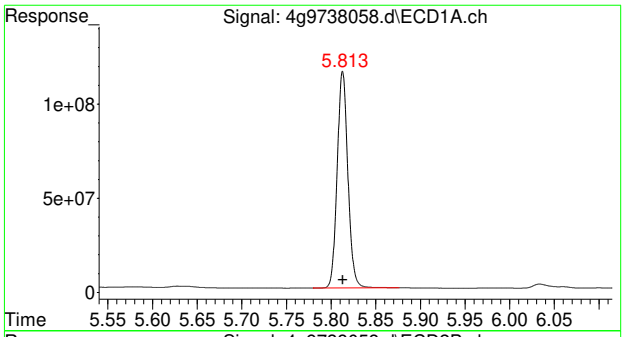
Data Path : C:\msdchem\1\data\g4g4352\
Data File : 4g9738058.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2024 8:33 pm
Operator : tilakp
Sample : icc4352-2.5 (pest mix)
Misc : op53967,g4g4352,5.0,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 06:17:38 2024
Quant Method : C:\msdchem\1\methods\4pstlvi4352a.M
Quant Title : PEST/PCB
QLast Update : Fri Jun 07 06:14:08 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

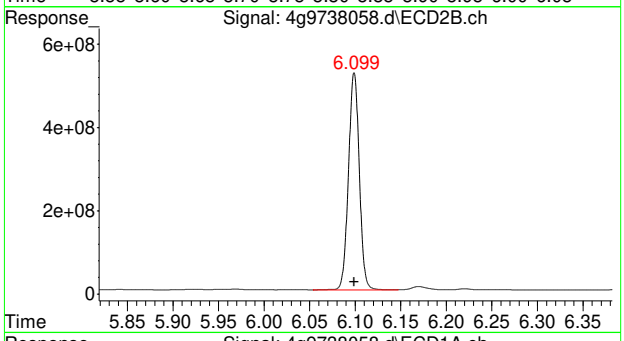






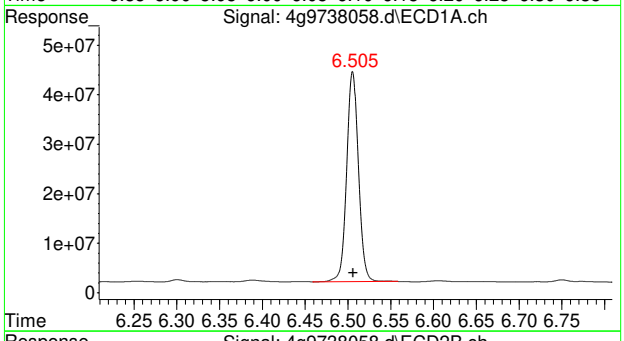
#1 1-bromo-2-nitrobenzene

R.T.: 5.813 min
Delta R.T.: 0.000 min
Response: 960453149
Conc: 5.00 PPB



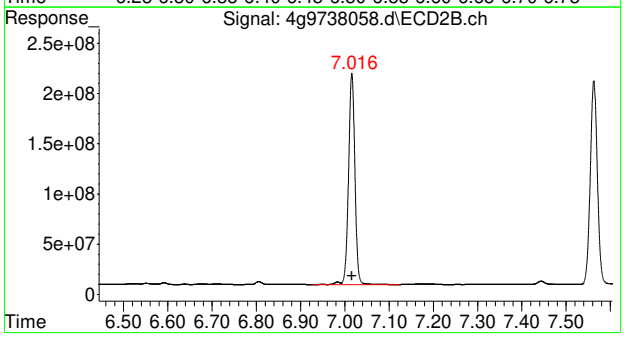
#1 1-bromo-2-nitrobenzene

R.T.: 6.099 min
Delta R.T.: 0.000 min
Response: 4350100155
Conc: 5.00 PPB



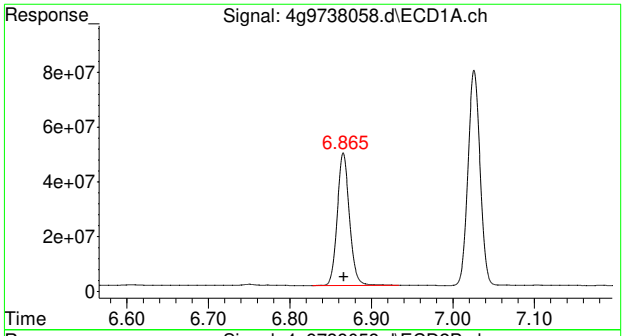
#2 Tetrachloro-m-xylene

R.T.: 6.506 min
Delta R.T.: 0.000 min
Response: 406667776
Conc: 3.93 PPB



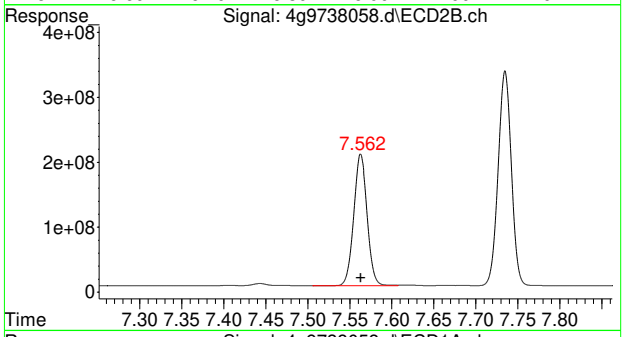
#2 Tetrachloro-m-xylene

R.T.: 7.016 min
Delta R.T.: 0.000 min
Response: 2109617530
Conc: 1.82 PPB



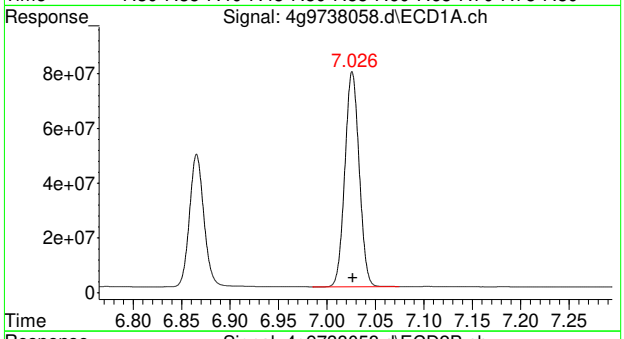
#3 hexachlorobenzene

R.T.: 6.866 min
Delta R.T.: 0.000 min
Response: 500840628
Conc: 1.35 PPB



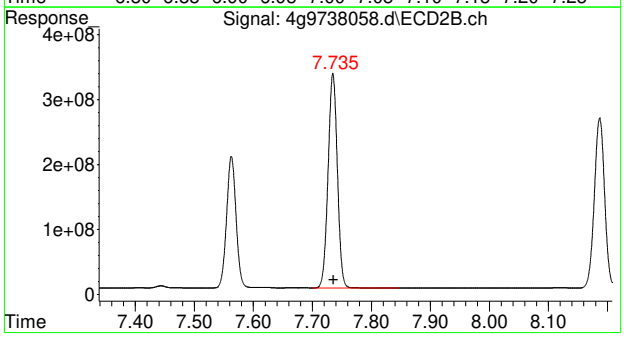
#3 hexachlorobenzene

R.T.: 7.563 min
Delta R.T.: 0.000 min
Response: 2276014818
Conc: 1.39 PPB



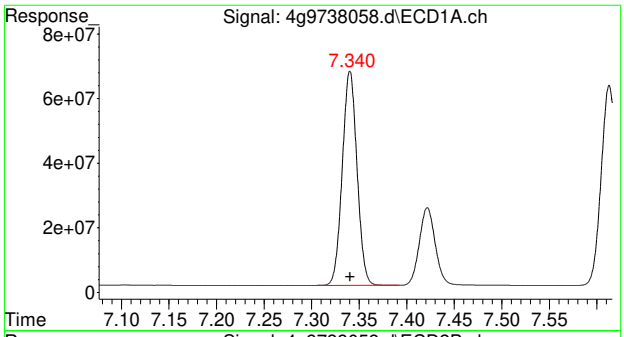
#4 alpha-BHC

R.T.: 7.026 min
Delta R.T.: 0.000 min
Response: 807656979
Conc: 2.22 PPB



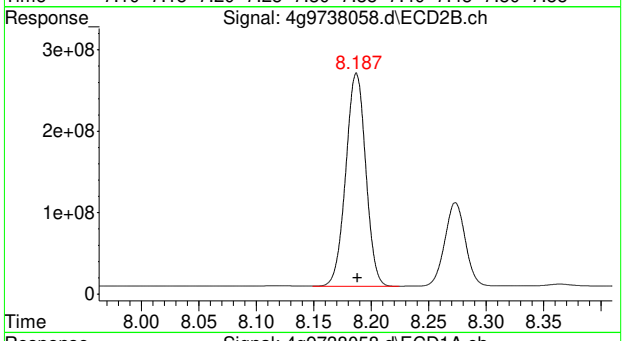
#4 alpha-BHC

R.T.: 7.735 min
Delta R.T.: 0.000 min
Response: 3623460863
Conc: 1.92 PPB



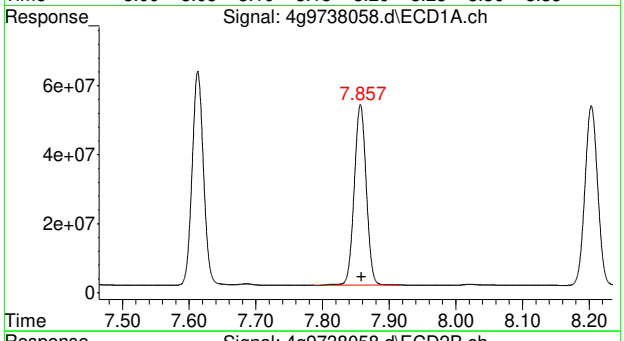
#5 gamma-BHC

R.T.: 7.340 min
Delta R.T.: 0.000 min
Response: 715354226
Conc: 2.26 PPB



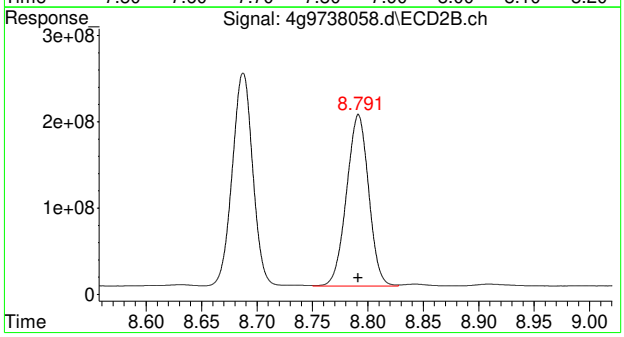
#5 gamma-BHC

R.T.: 8.187 min
Delta R.T.: 0.000 min
Response: 3168036726
Conc: 1.88 PPB



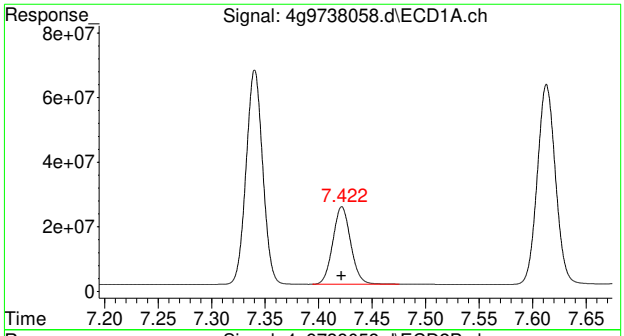
#6 Heptachlor

R.T.: 7.857 min
Delta R.T.: -0.001 min
Response: 654162932
Conc: 1.92 PPB



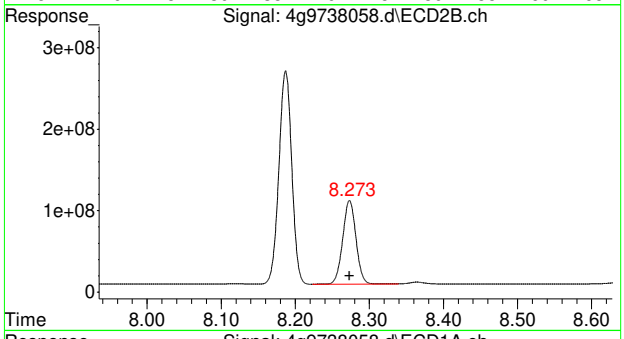
#6 Heptachlor

R.T.: 8.791 min
Delta R.T.: 0.000 min
Response: 2759787883
Conc: 2.64 PPB



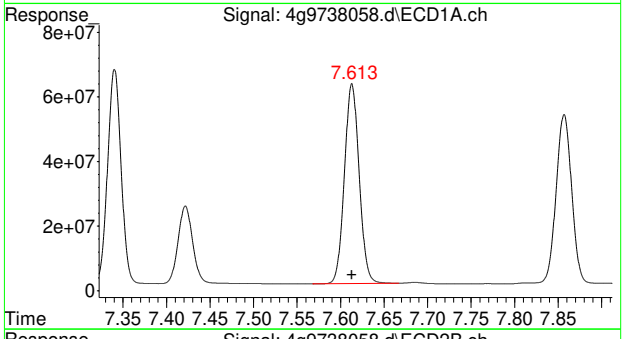
#7 beta-BHC

R.T.: 7.422 min
Delta R.T.: 0.000 min
Response: 279530293
Conc: 2.42 PPB



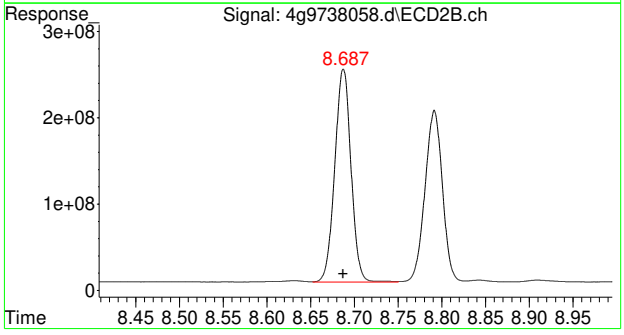
#7 beta-BHC

R.T.: 8.273 min
Delta R.T.: 0.000 min
Response: 1283190552
Conc: 1.71 PPB



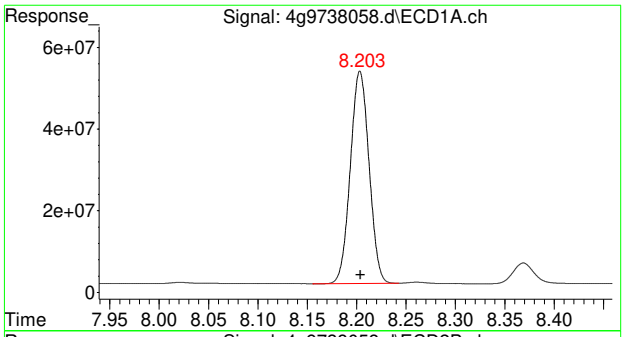
#8 delta-BHC

R.T.: 7.613 min
Delta R.T.: 0.000 min
Response: 729526285
Conc: 1.98 PPB



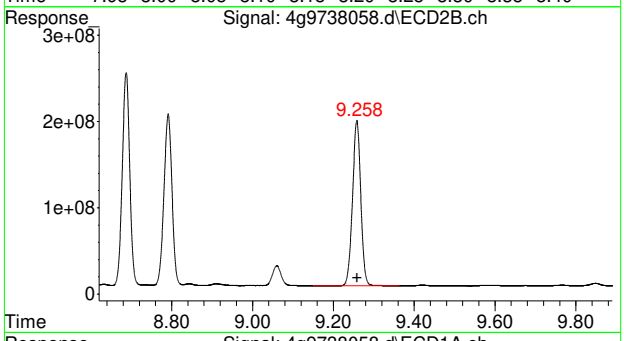
#8 delta-BHC

R.T.: 8.687 min
Delta R.T.: 0.000 min
Response: 3181630241
Conc: 1.92 PPB



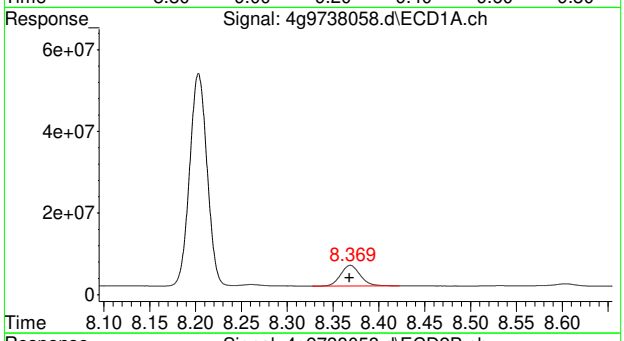
#9 Aldrin

R.T.: 8.203 min
Delta R.T.: 0.000 min
Response: 684920706
Conc: 2.04 PPB



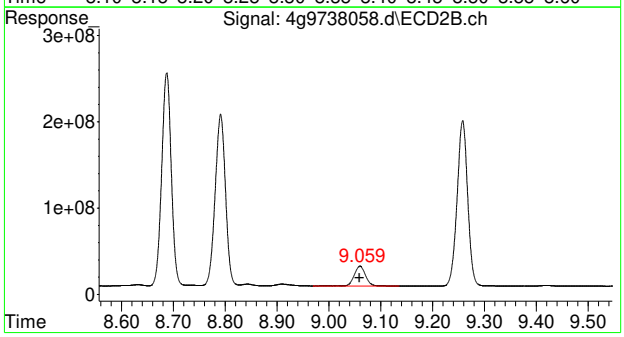
#9 Aldrin

R.T.: 9.258 min
Delta R.T.: 0.000 min
Response: 2716756911
Conc: 1.74 PPB



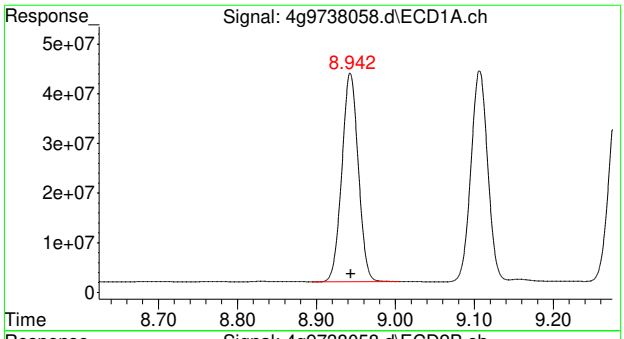
#10 alachlor

R.T.: 8.369 min
Delta R.T.: 0.001 min
Response: 74366464
Conc: 2.80 PPB



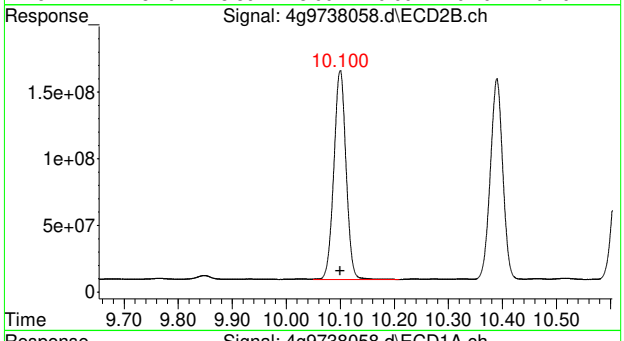
#10 alachlor

R.T.: 9.060 min
Delta R.T.: 0.001 min
Response: 348177870
Conc: 2.17 PPB



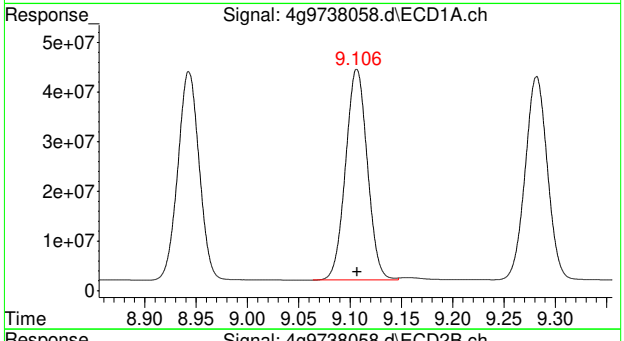
#11 Heptachlor Epoxide

R.T.: 8.943 min
Delta R.T.: 0.000 min
Response: 606103421
Conc: 2.00 PPB



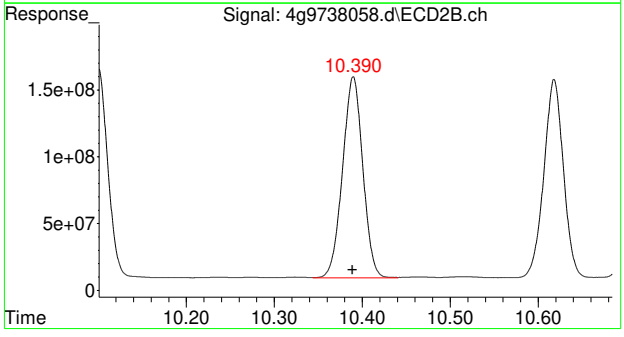
#11 Heptachlor Epoxide

R.T.: 10.100 min
Delta R.T.: 0.000 min
Response: 2454251922
Conc: 1.72 PPB



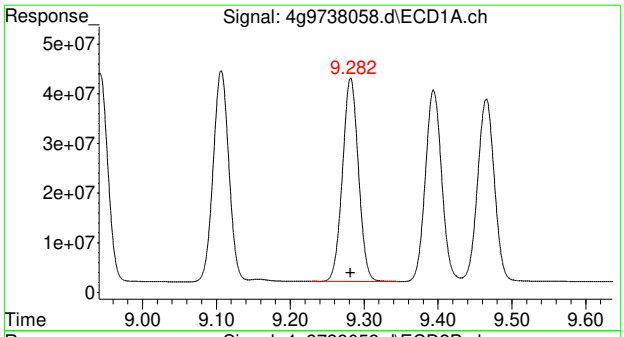
#12 gamma-Chlordane

R.T.: 9.106 min
Delta R.T.: -0.001 min
Response: 626844566
Conc: 1.93 PPB m



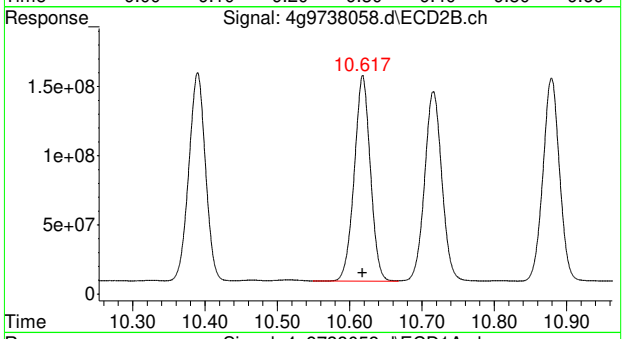
#12 gamma-Chlordane

R.T.: 10.390 min
Delta R.T.: 0.000 min
Response: 2409651093
Conc: 1.60 PPB



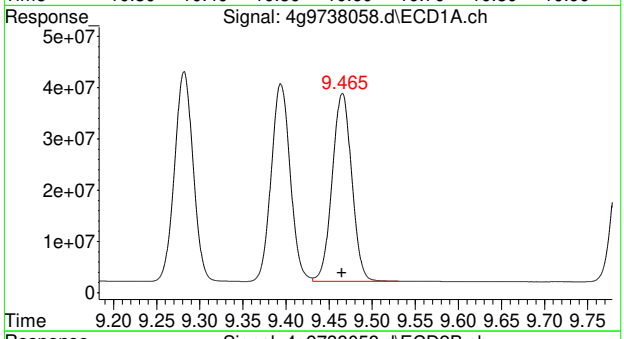
#13 alpha-Chlordane

R.T.: 9.282 min
Delta R.T.: 0.000 min
Response: 613236955
Conc: 2.00 PPB



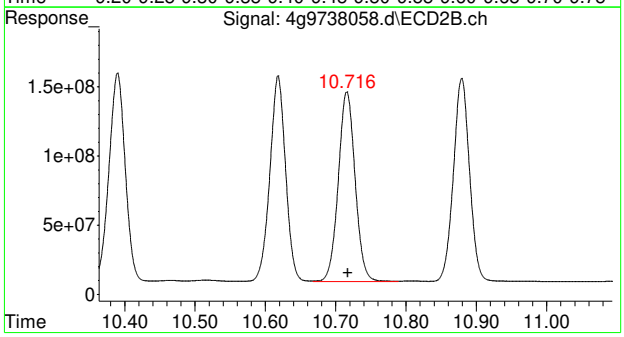
#13 alpha-Chlordane

R.T.: 10.618 min
Delta R.T.: 0.000 min
Response: 2304039843
Conc: 1.57 PPB



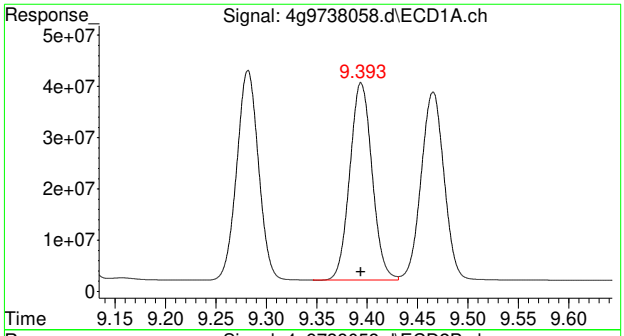
#14 Endosulfan I

R.T.: 9.466 min
Delta R.T.: 0.000 min
Response: 579203127
Conc: 1.90 PPB



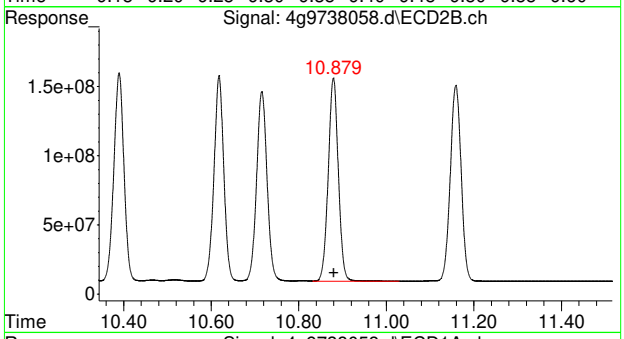
#14 Endosulfan I

R.T.: 10.716 min
Delta R.T.: -0.001 min
Response: 2279394515
Conc: 1.88 PPB



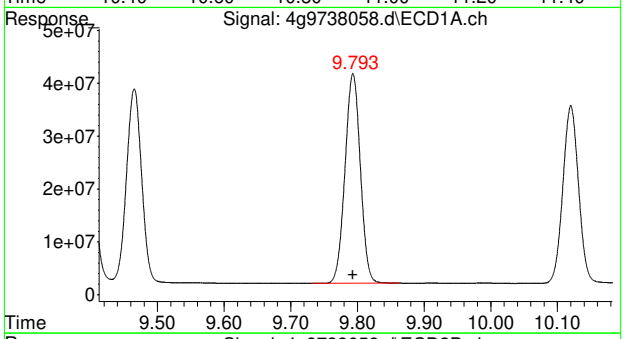
#15 4,4'-DDE

R.T.: 9.394 min
Delta R.T.: 0.000 min
Response: 591164410
Conc: 2.15 PPB



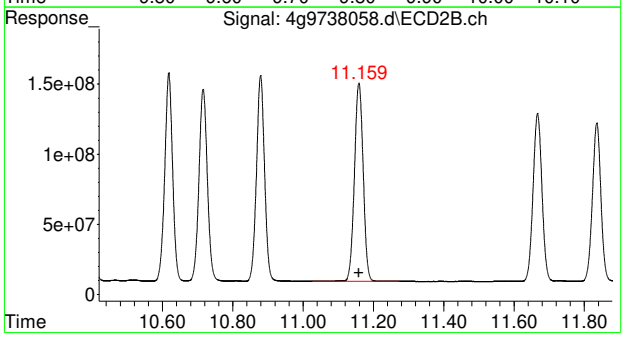
#15 4,4'-DDE

R.T.: 10.879 min
Delta R.T.: 0.000 min
Response: 2349743335
Conc: 1.76 PPB



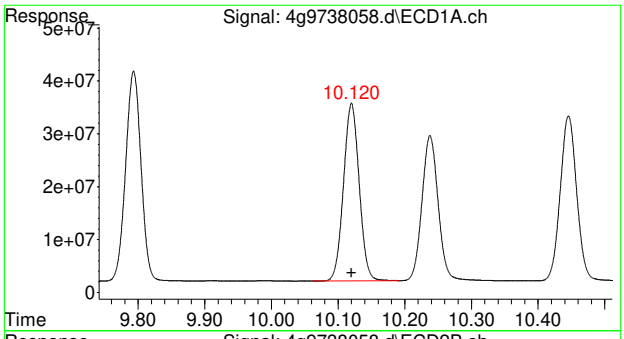
#16 Dieldrin

R.T.: 9.793 min
Delta R.T.: 0.000 min
Response: 634822082
Conc: 1.97 PPB



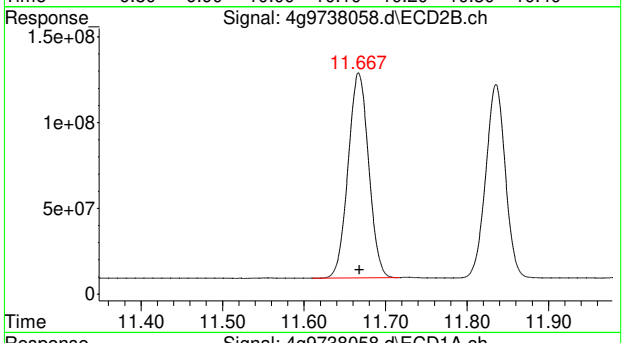
#16 Dieldrin

R.T.: 11.159 min
Delta R.T.: 0.000 min
Response: 2450457468
Conc: 1.75 PPB



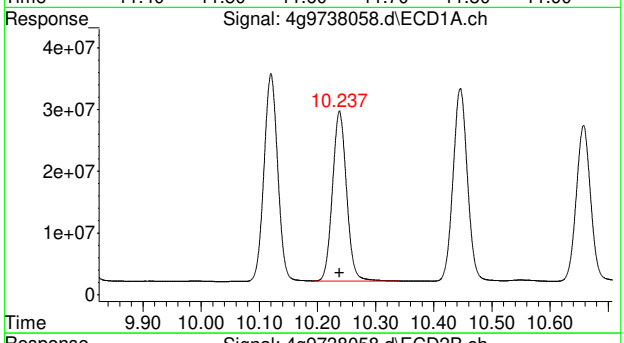
#17 Endrin

R.T.: 10.120 min
Delta R.T.: 0.000 min
Response: 548051870
Conc: 1.93 PPB



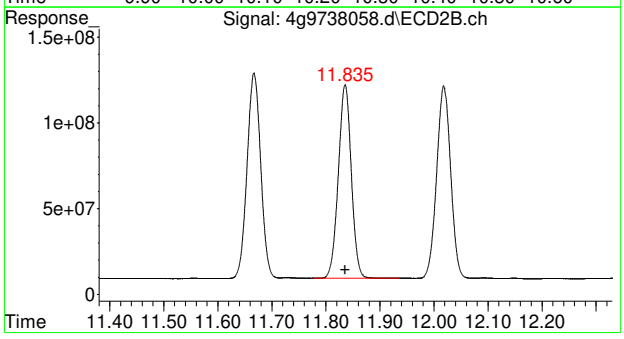
#17 Endrin

R.T.: 11.667 min
Delta R.T.: 0.000 min
Response: 2088795707
Conc: 2.04 PPB



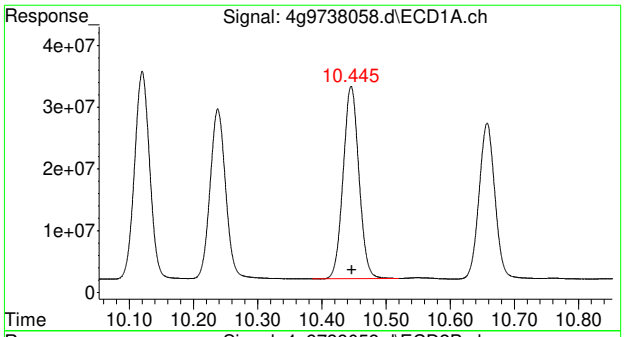
#18 4,4'-DDD

R.T.: 10.238 min
Delta R.T.: 0.000 min
Response: 462466097
Conc: 1.94 PPB



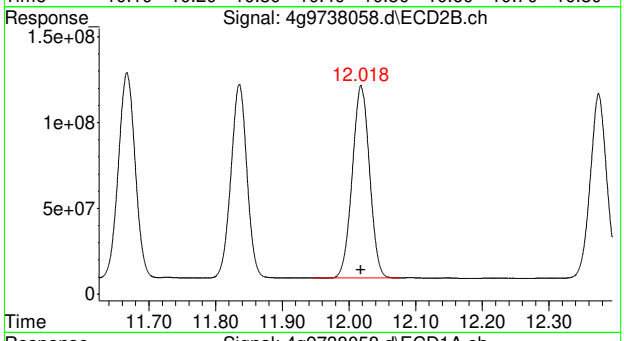
#18 4,4'-DDD

R.T.: 11.836 min
Delta R.T.: 0.000 min
Response: 1885419265
Conc: 2.22 PPB



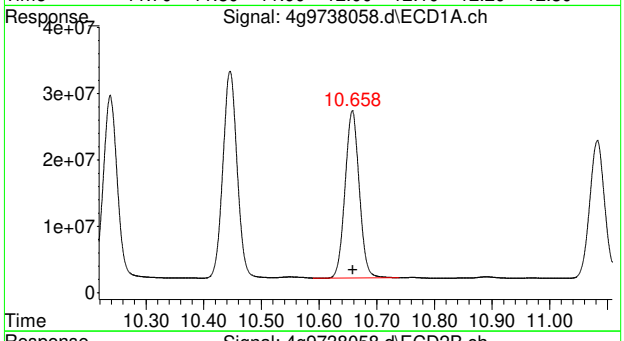
#19 Endosulfan II

R.T.: 10.446 min
Delta R.T.: 0.000 min
Response: 531861885
Conc: 1.95 PPB



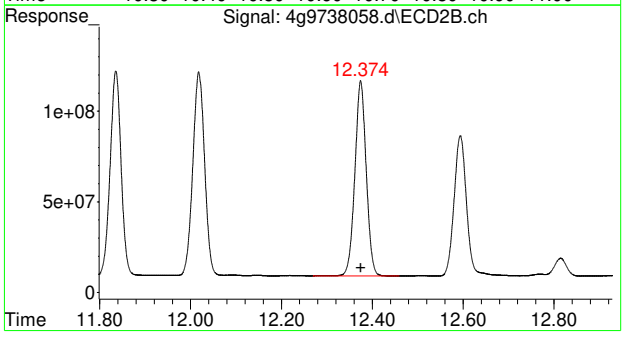
#19 Endosulfan II

R.T.: 12.018 min
Delta R.T.: 0.000 min
Response: 2018444104
Conc: 1.66 PPB



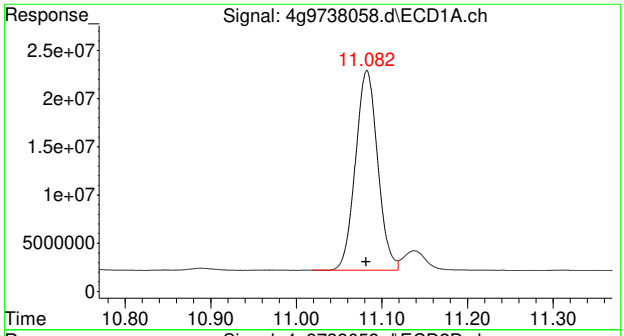
#20 4,4'-DDT

R.T.: 10.658 min
Delta R.T.: 0.000 min
Response: 430296916
Conc: 1.97 PPB



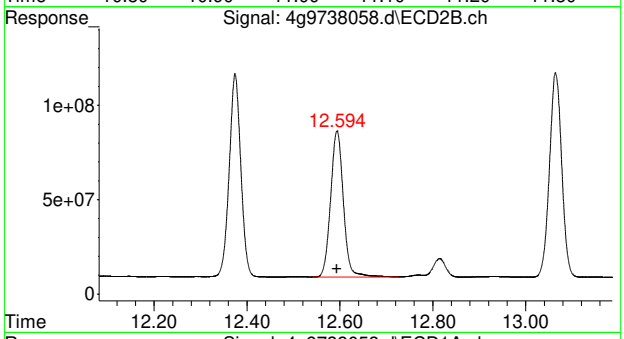
#20 4,4'-DDT

R.T.: 12.375 min
Delta R.T.: 0.000 min
Response: 1864703938
Conc: 2.10 PPB



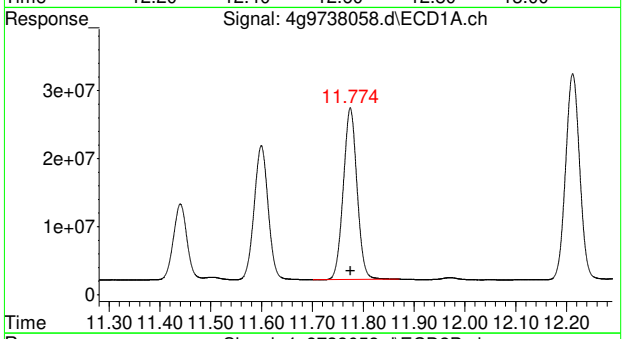
#21 Endrin Aldehyde

R.T.: 11.083 min
Delta R.T.: 0.001 min
Response: 373777816
Conc: 1.85 PPB



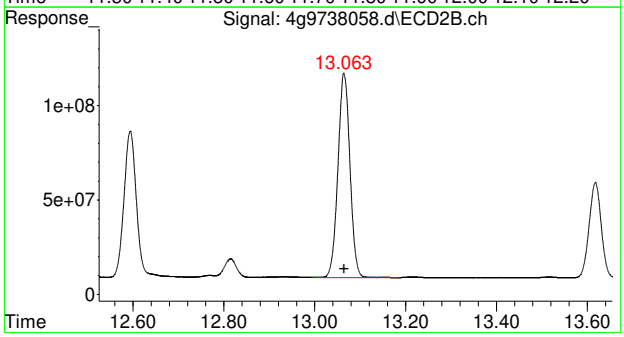
#21 Endrin Aldehyde

R.T.: 12.594 min
Delta R.T.: 0.000 min
Response: 1480527949
Conc: 1.67 PPB



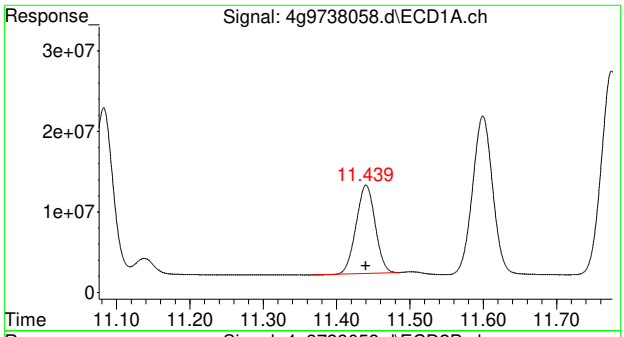
#22 Endosulfan Sulfate

R.T.: 11.775 min
Delta R.T.: 0.000 min
Response: 473050616
Conc: 1.80 PPB



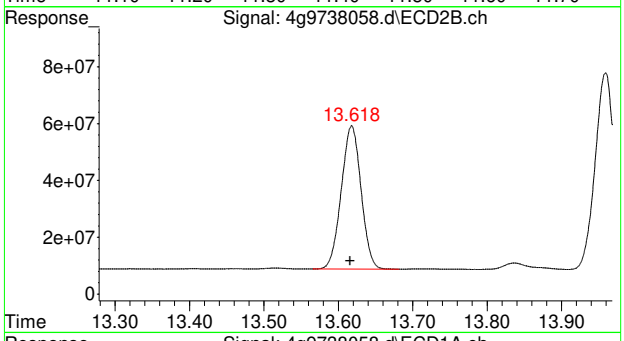
#22 Endosulfan Sulfate

R.T.: 13.065 min
Delta R.T.: 0.000 min
Response: 1984920982
Conc: 1.65 PPB



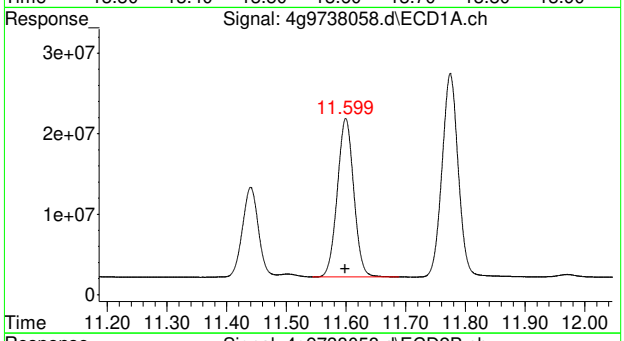
#23 Methoxychlor

R.T.: 11.440 min
Delta R.T.: 0.000 min
Response: 197694692
Conc: 1.80 PPB



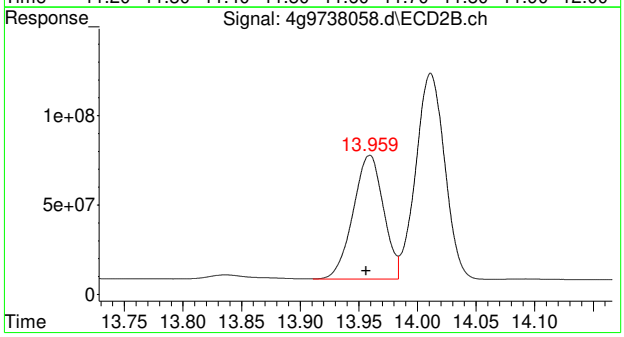
#23 Methoxychlor

R.T.: 13.618 min
Delta R.T.: 0.002 min
Response: 932188022
Conc: 2.57 PPB



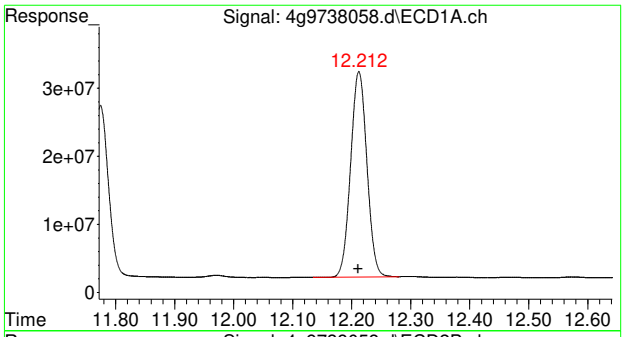
#24 Mirex

R.T.: 11.600 min
Delta R.T.: 0.001 min
Response: 376797099
Conc: 1.99 PPB



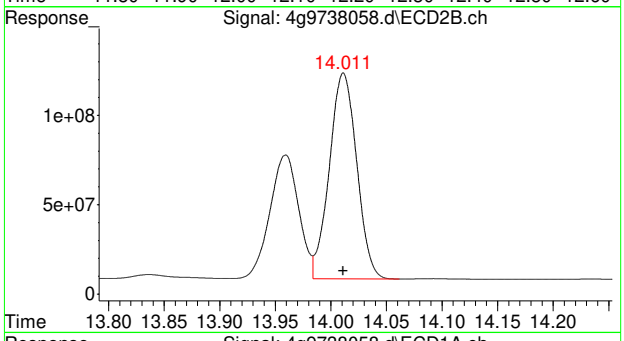
#24 Mirex

R.T.: 13.959 min
Delta R.T.: 0.003 min
Response: 1251102086
Conc: 1.47 PPB



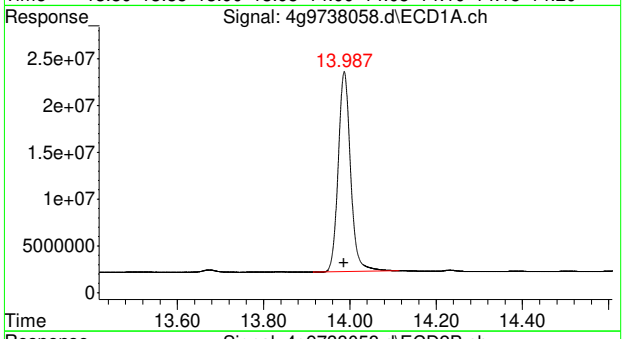
#25 Endrin Ketone

R.T.: 12.212 min
Delta R.T.: 0.002 min
Response: 578081654
Conc: 1.98 PPB



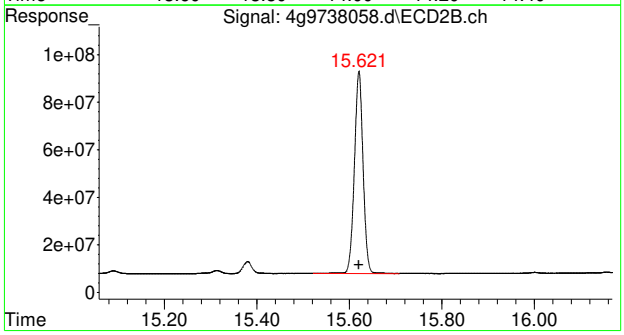
#25 Endrin Ketone

R.T.: 14.011 min
Delta R.T.: 0.000 min
Response: 1977925011
Conc: 1.61 PPB



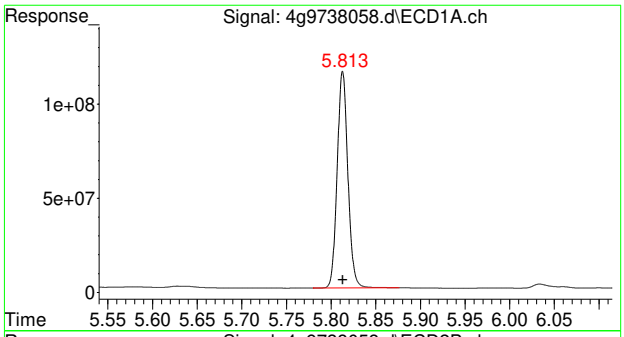
#26 Decachlorobiphenyl

R.T.: 13.987 min
Delta R.T.: 0.001 min
Response: 424272749
Conc: 1.53 PPB



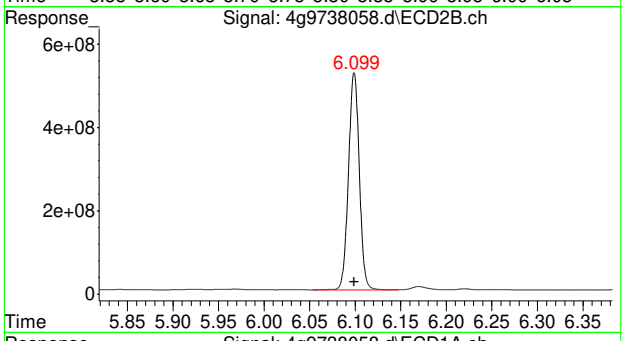
#26 Decachlorobiphenyl

R.T.: 15.621 min
Delta R.T.: 0.000 min
Response: 1104898779
Conc: 1.28 PPB



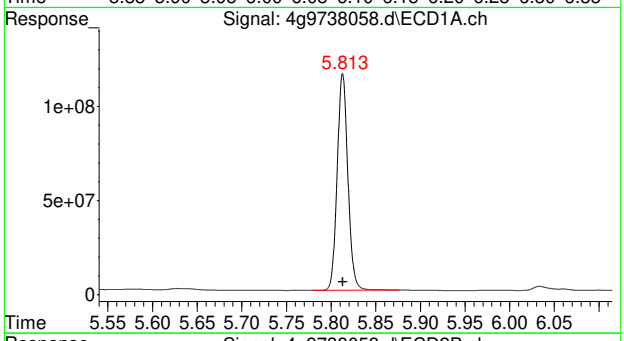
#27 1-bromo-2-nitrobenzeneA

R.T.: 5.813 min
Delta R.T.: 0.000 min
Response: 960453149
Conc: 5.00 PPB



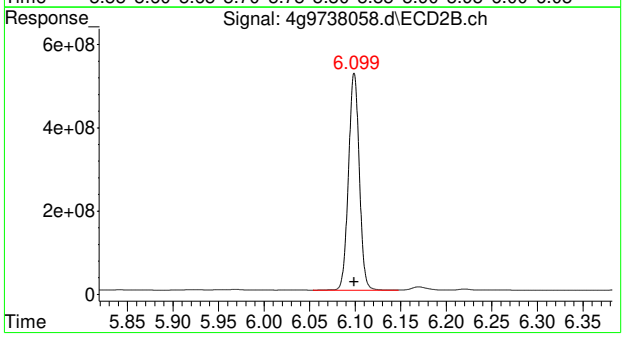
#27 1-bromo-2-nitrobenzeneA

R.T.: 6.099 min
Delta R.T.: 0.000 min
Response: 4350100155
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 5.813 min
Delta R.T.: 0.000 min
Response: 960453149
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 6.099 min
Delta R.T.: 0.000 min
Response: 4350100155
Conc: 5.00 PPB

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/06/24 08:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g5g3634\
Data File : 5G138214.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Jun 2024 9:13 am
Operator : rebeccak
Sample : ic3634-50 (chlordane)
Misc : op55026,G5G3634,5.0,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 13:25:02 2024
Quant Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M
Quant Title : PEST/PCB
QLast Update : Wed Jun 05 13:24:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.620	4.920	2189.1E6	2278.1E6	5.000	5.000
27)	I 1-bromo-2...	4.620	4.920	2189.1E6	2278.1E6	5.000	5.000
33)	I 1-bromo-2...	4.620	4.920	2189.1E6	2278.1E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.249	5.741	909.5E6	2364.0E6	3.595	4.549 #
	Spiked Amount 40.000	Range 30 - 150		Recovery =		8.99%#	11.37%#
26)	SA Decachlor...	12.457	14.205	2491.7E6	1766.3E6	4.667	5.822
	Spiked Amount 40.000			Recovery =		11.67%	14.56%
	Target Compounds						
34)	Chlordane...	6.491	7.341	1718.3E6	1230.5E6	44.178	34.380
35)	Chlordane...	6.959	7.964	927.6E6	972.8E6	45.562	49.296
36)	Chlordane...	7.667	8.844	4079.6E6	3739.5E6	50.807	52.093
37)	Chlordane...	7.824	9.063	6337.5E6	6107.5E6	49.762	54.299m
38)	Chlordane...	8.851	10.483	901.5E6	817.8E6	48.632	47.634
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

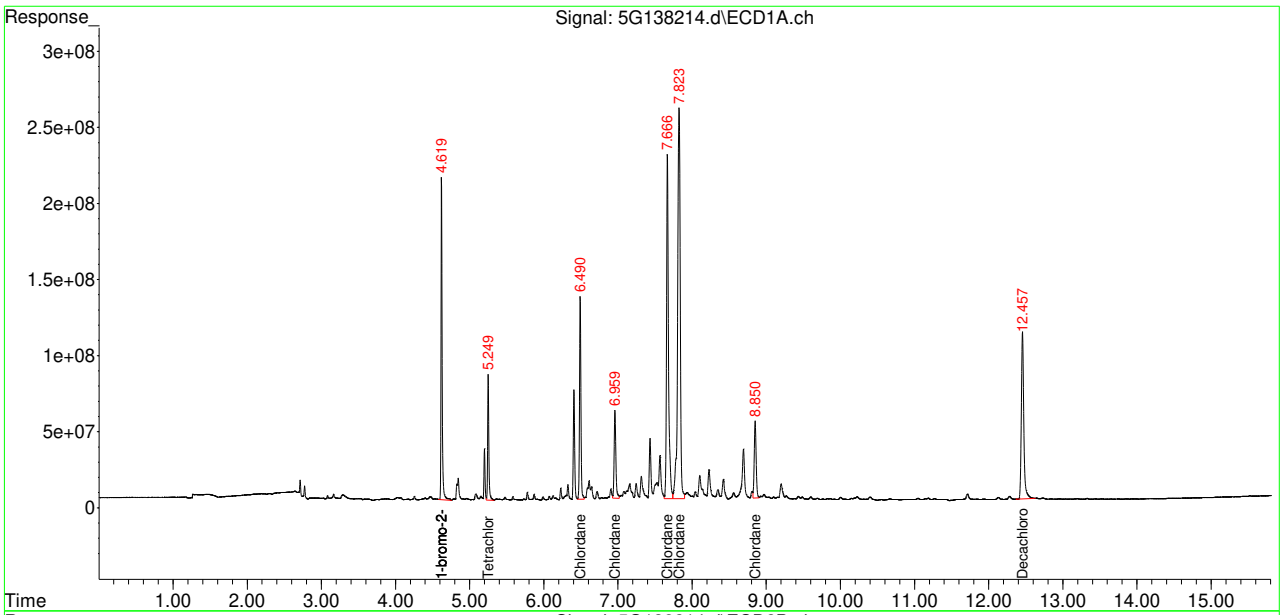
11.3.7 11

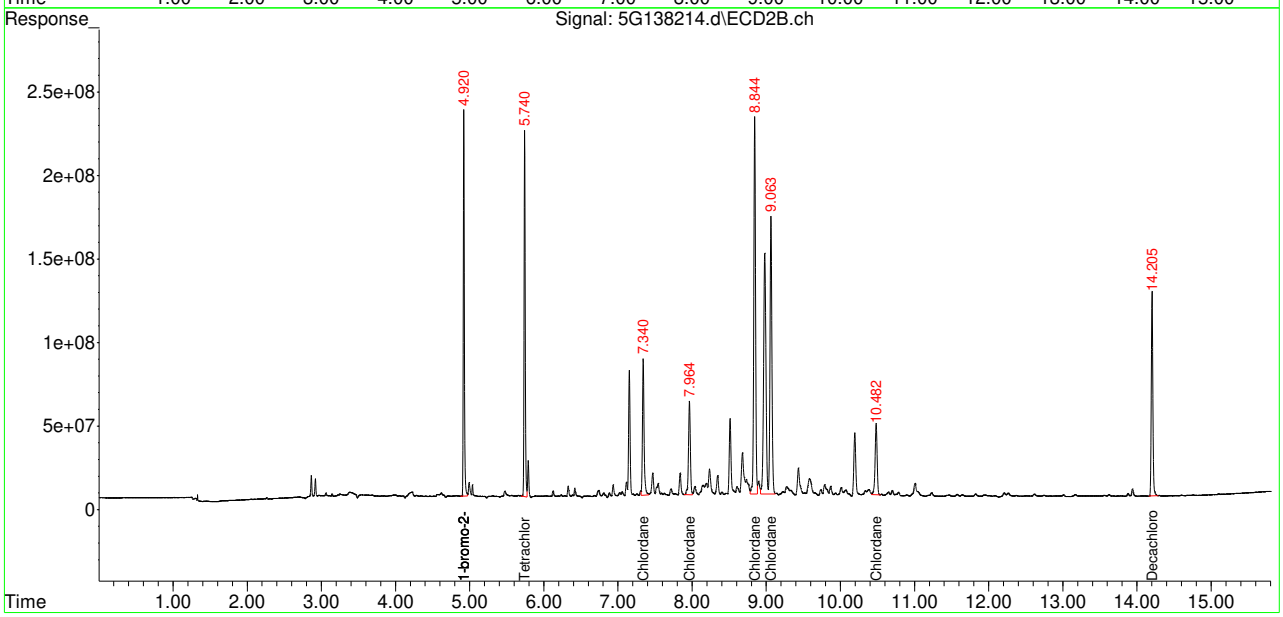
Quantitation Report (QT Reviewed)

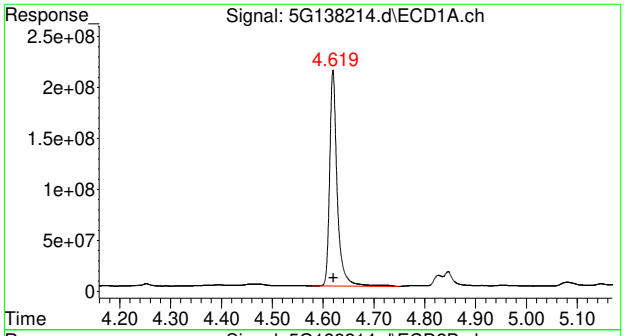
Data Path : C:\msdchem\1\data\g5g3634\
Data File : 5G138214.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Jun 2024 9:13 am
Operator : rebeccak
Sample : ic3634-50 (chlordane)
Misc : op55026,G5G3634,5.0,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 13:25:02 2024
Quant Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M
Quant Title : PEST/PCB
QLast Update : Wed Jun 05 13:24:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

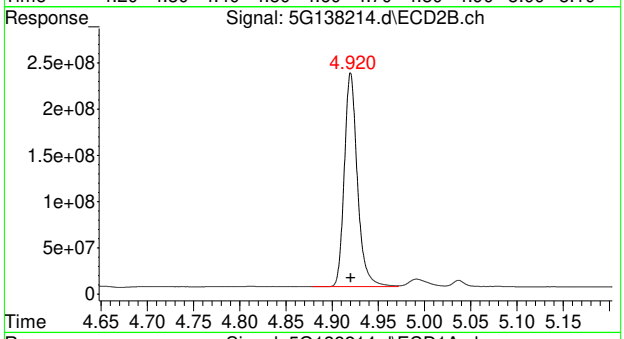






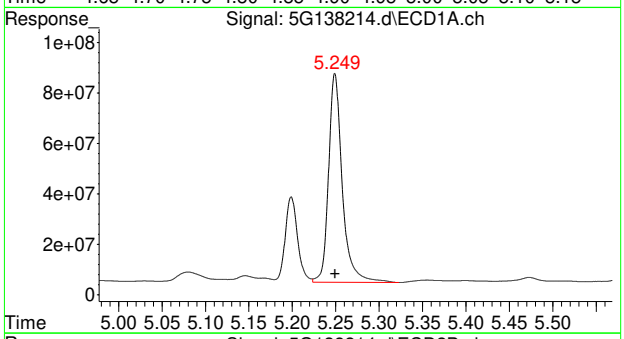
#1 1-bromo-2-nitrobenzene

R.T.: 4.620 min
Delta R.T.: 0.000 min
Response: 2189144089
Conc: 5.00 PPB



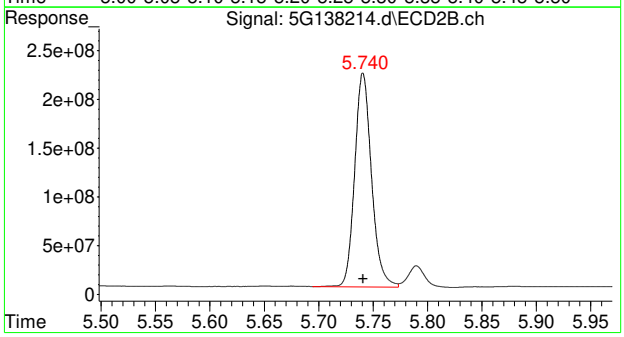
#1 1-bromo-2-nitrobenzene

R.T.: 4.920 min
Delta R.T.: 0.000 min
Response: 2278071723
Conc: 5.00 PPB



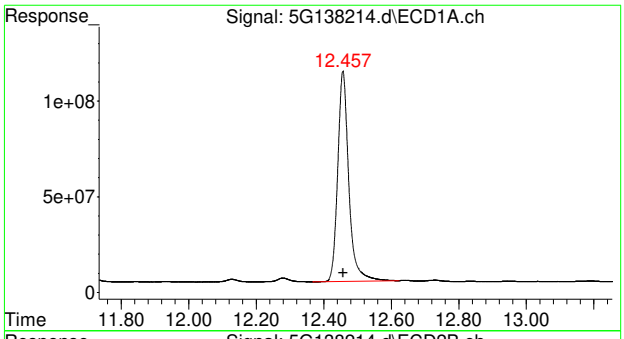
#2 Tetrachloro-m-xylene

R.T.: 5.249 min
Delta R.T.: 0.000 min
Response: 909543766
Conc: 3.60 PPB



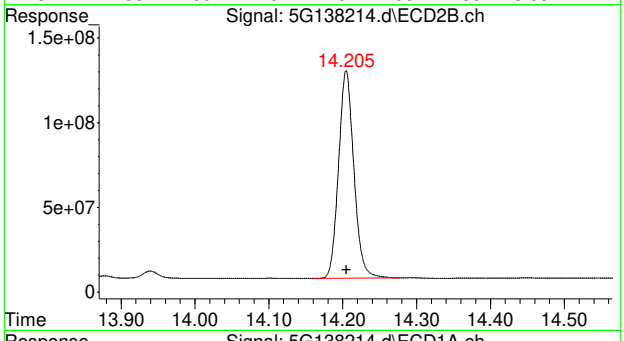
#2 Tetrachloro-m-xylene

R.T.: 5.741 min
Delta R.T.: 0.000 min
Response: 2364030584
Conc: 4.55 PPB



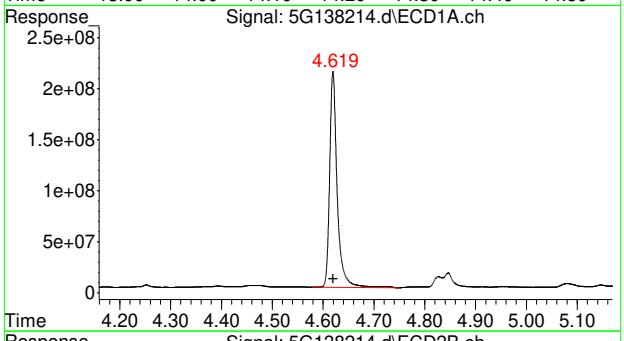
#26 Decachlorobiphenyl

R.T.: 12.457 min
Delta R.T.: 0.000 min
Response: 2491704442
Conc: 4.67 PPB



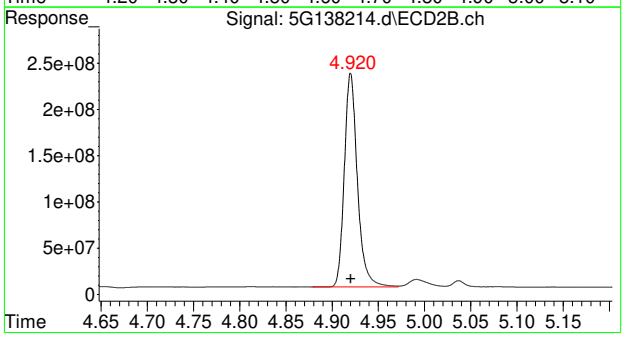
#26 Decachlorobiphenyl

R.T.: 14.205 min
Delta R.T.: 0.000 min
Response: 1766333542
Conc: 5.82 PPB



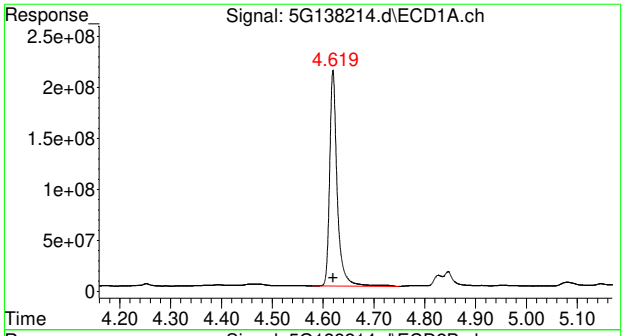
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.620 min
Delta R.T.: 0.000 min
Response: 2189144089
Conc: 5.00 PPB



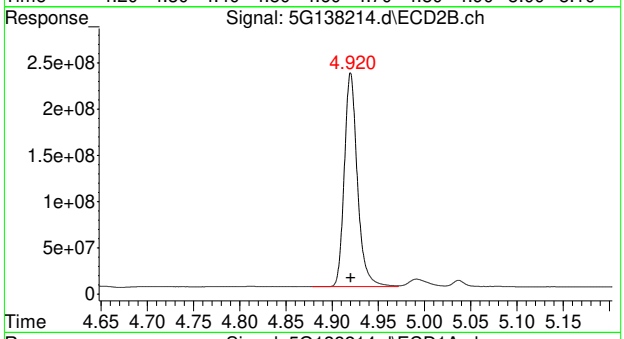
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.920 min
Delta R.T.: 0.000 min
Response: 2278071723
Conc: 5.00 PPB



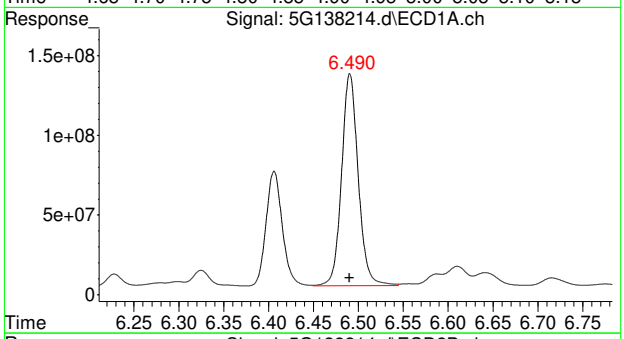
#33 1-bromo-2-nitrobenzeneB

R.T.: 4.620 min
Delta R.T.: 0.000 min
Response: 2189144089
Conc: 5.00 PPB



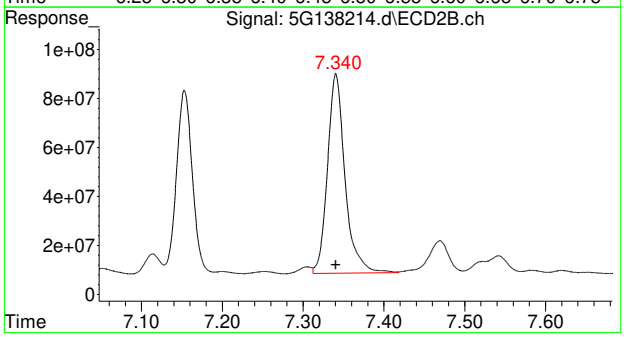
#33 1-bromo-2-nitrobenzeneB

R.T.: 4.920 min
Delta R.T.: 0.000 min
Response: 2278071723
Conc: 5.00 PPB



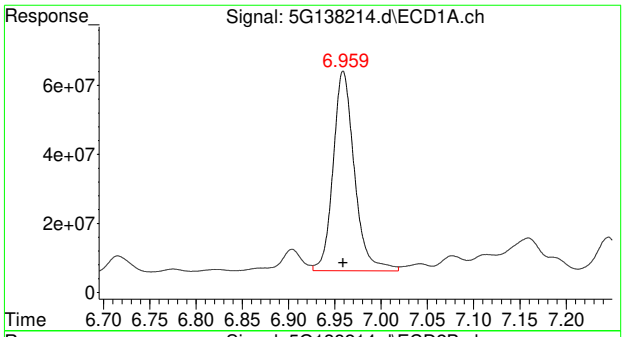
#34 Chlordane {A}

R.T.: 6.491 min
Delta R.T.: 0.000 min
Response: 1718302061
Conc: 44.18 PPB



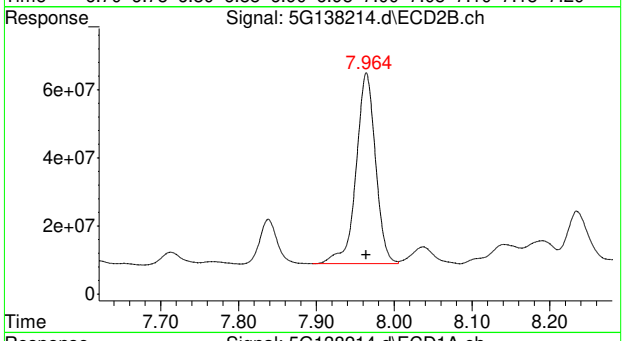
#34 Chlordane {A}

R.T.: 7.341 min
Delta R.T.: 0.000 min
Response: 1230467923
Conc: 34.38 PPB



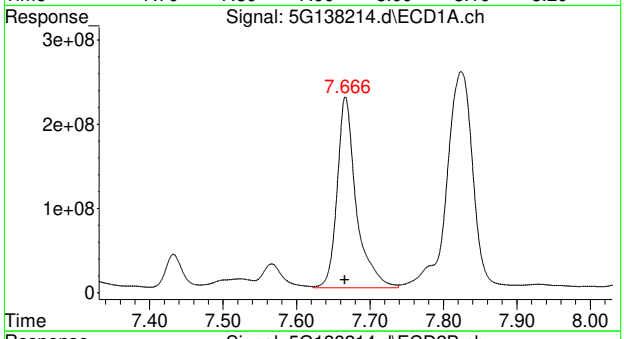
#35 Chlordane {B}

R.T.: 6.959 min
Delta R.T.: 0.000 min
Response: 927611098
Conc: 45.56 PPB



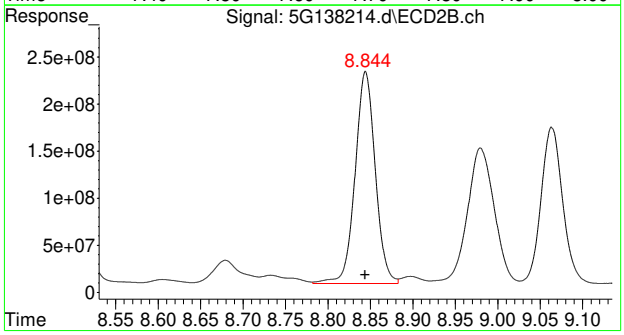
#35 Chlordane {B}

R.T.: 7.964 min
Delta R.T.: 0.000 min
Response: 972762761
Conc: 49.30 PPB



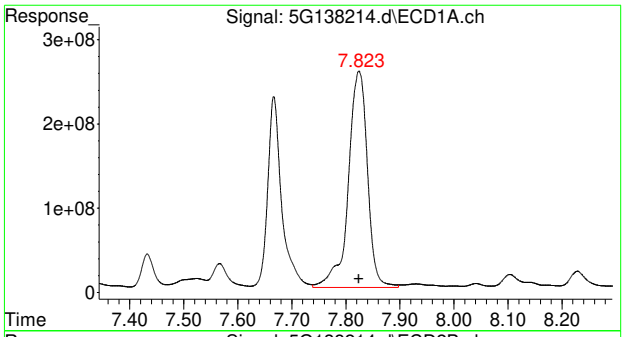
#36 Chlordane {C}

R.T.: 7.667 min
Delta R.T.: 0.000 min
Response: 4079586116
Conc: 50.81 PPB



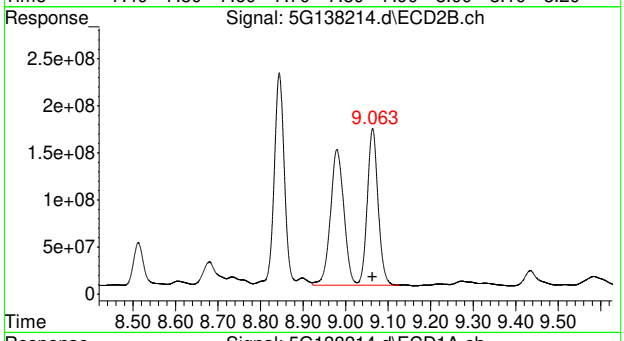
#36 Chlordane {C}

R.T.: 8.844 min
Delta R.T.: 0.000 min
Response: 3739496186
Conc: 52.09 PPB



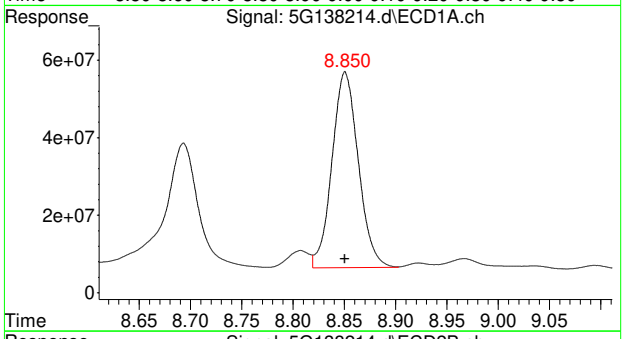
#37 Chlordane {D}

R.T.: 7.824 min
Delta R.T.: 0.000 min
Response: 6337481083
Conc: 49.76 PPB



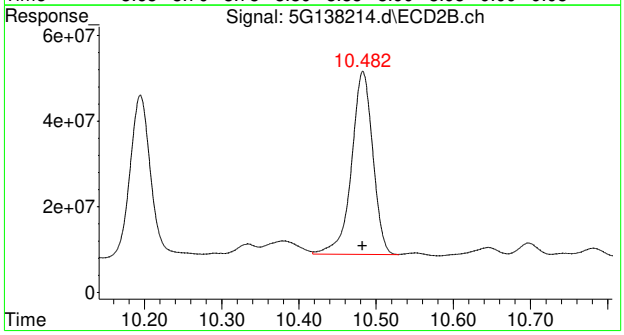
#37 Chlordane {D}

R.T.: 9.063 min
Delta R.T.: 0.000 min
Response: 6107458879
Conc: 54.30 PPB m



#38 Chlordane {E}

R.T.: 8.851 min
Delta R.T.: 0.000 min
Response: 901494316
Conc: 48.63 PPB



#38 Chlordane {E}

R.T.: 10.483 min
Delta R.T.: 0.000 min
Response: 817761203
Conc: 47.63 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Gwendolyn Burns
06/06/24 08:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g5g3634\
Data File : 5G138215.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Jun 2024 9:34 am
Operator : rebeccak
Sample : ic3634-50 (toxaphene)
Misc : op55026,G5G3634,5.0,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 13:52:48 2024
Quant Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M
Quant Title : PEST/PCB
QLast Update : Wed Jun 05 13:39:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.620	4.921	1988.2E6	2131.4E6	5.000	5.000
27)	I 1-bromo-2...	4.620	4.921	1988.2E6	2131.4E6	5.000	5.000
33)	I 1-bromo-2...	4.620	4.921	1988.2E6	2131.4E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.250	5.742	859.7E6	2323.9E6	4.010	4.086
	Spiked Amount	40.000	Range 30 - 150	Recovery =		10.02%#	10.22%#
26)	SA Decachlor...	12.456	14.206	2357.8E6	1748.4E6	4.096	4.126
	Spiked Amount	40.000		Recovery =		10.24%	10.32%
	Target Compounds						
28)	L8 Toxaphene{A}	7.801	8.558	150.1E6	109.0E6	49.911m	42.798m
29)	L8 Toxaphene{B}	8.447	9.714	244.5E6	151.0E6	62.953	12.663m#
30)	L8 Toxaphene{C}	9.442	10.669	178.2E6	160.7E6	41.955m	57.044m#
31)	L8 Toxaphene{D}	9.731	10.974	635.4E6	457.3E6	78.906m	63.122m
32)	L8 Toxaphene{E}	10.075	11.854	599.9E6	696.4E6	55.357m	70.527m#
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

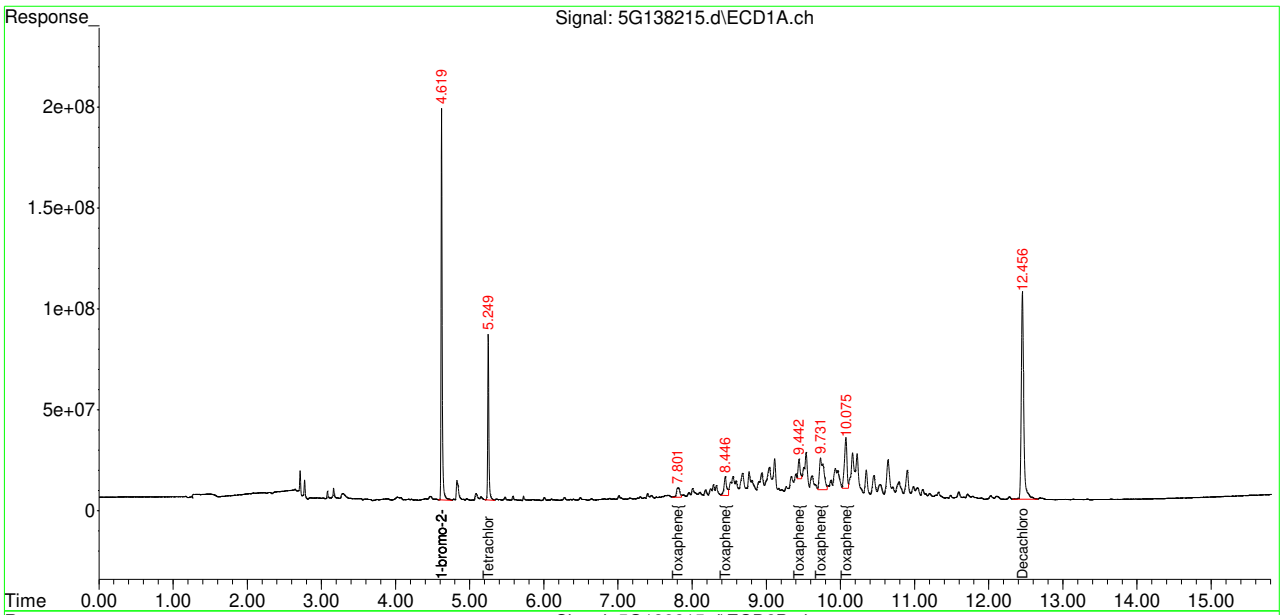
11.3.8 11

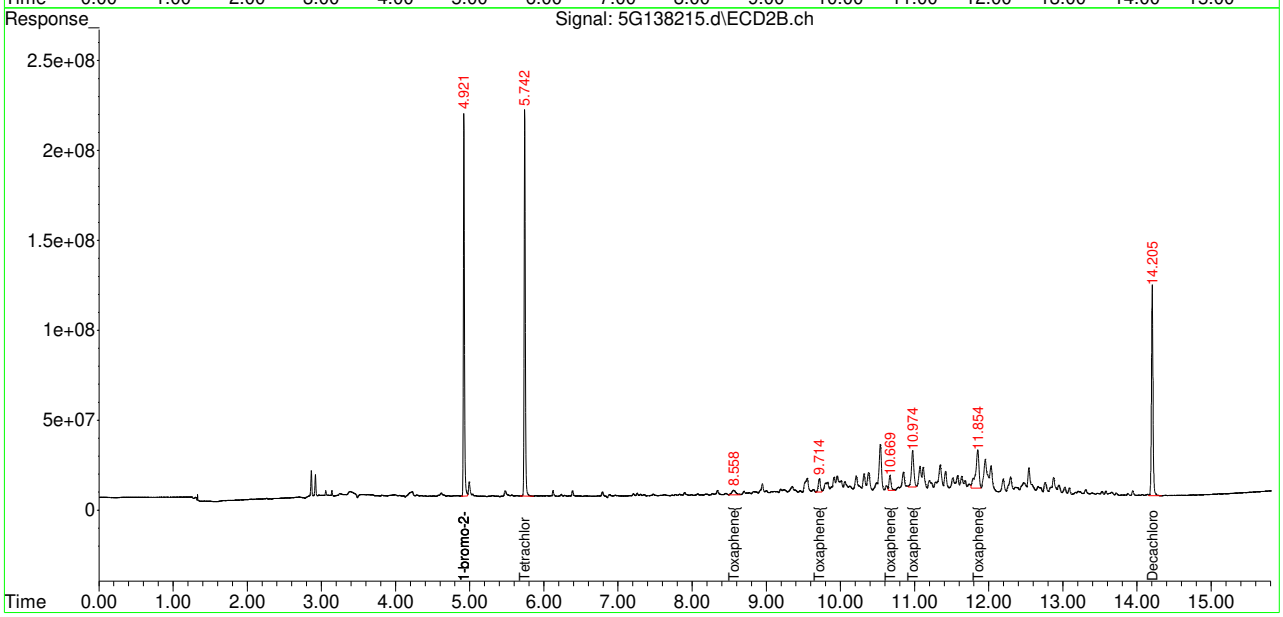
Quantitation Report (QT Reviewed)

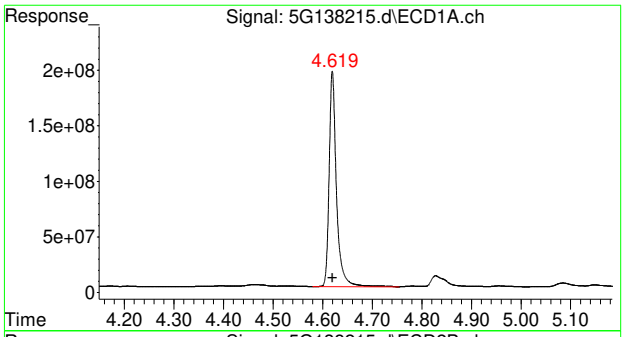
Data Path : C:\msdchem\1\data\g5g3634\
Data File : 5G138215.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Jun 2024 9:34 am
Operator : rebeccak
Sample : ic3634-50 (toxaphene)
Misc : op55026,G5G3634,5.0,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 13:52:48 2024
Quant Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M
Quant Title : PEST/PCB
QLast Update : Wed Jun 05 13:39:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

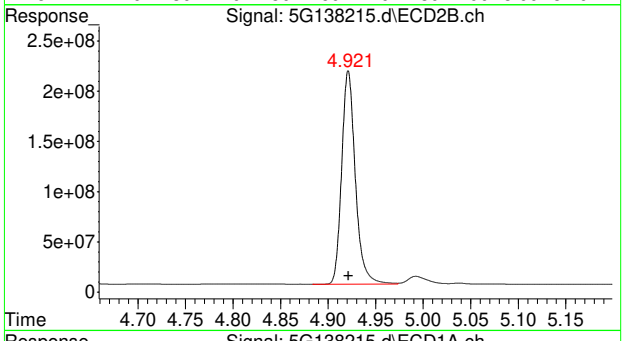






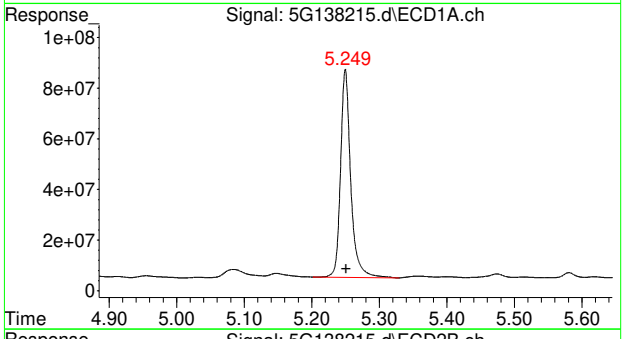
#1 1-bromo-2-nitrobenzene

R.T.: 4.620 min
Delta R.T.: 0.000 min
Response: 1988199380
Conc: 5.00 PPB



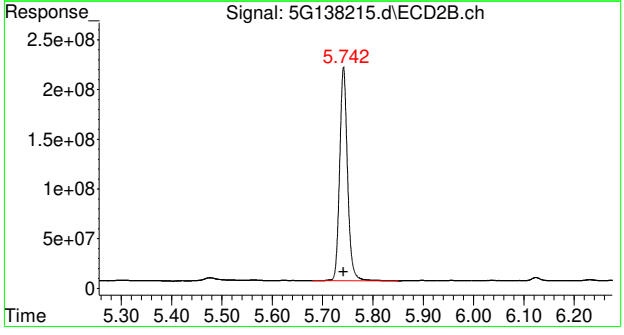
#1 1-bromo-2-nitrobenzene

R.T.: 4.921 min
Delta R.T.: 0.000 min
Response: 2131358579
Conc: 5.00 PPB



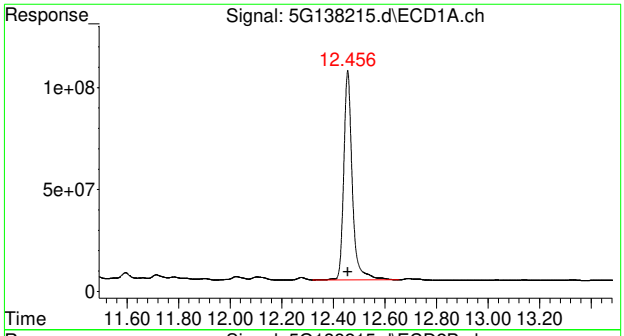
#2 Tetrachloro-m-xylene

R.T.: 5.250 min
Delta R.T.: 0.000 min
Response: 859711952
Conc: 4.01 PPB



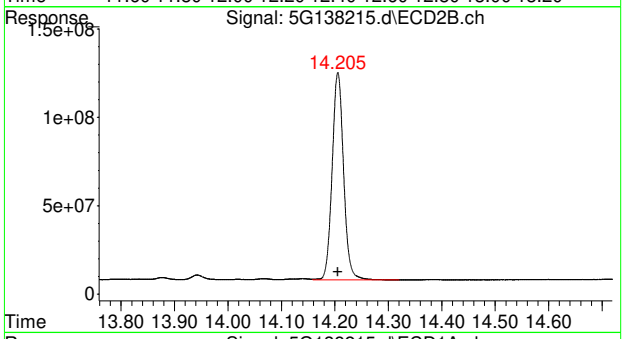
#2 Tetrachloro-m-xylene

R.T.: 5.742 min
Delta R.T.: 0.000 min
Response: 2323926278
Conc: 4.09 PPB



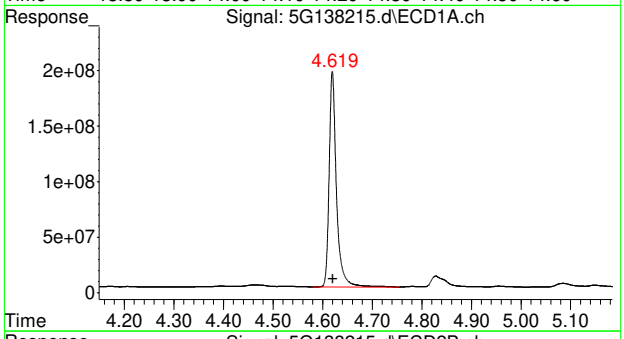
#26 Decachlorobiphenyl

R.T.: 12.456 min
Delta R.T.: 0.000 min
Response: 2357787133
Conc: 4.10 PPB



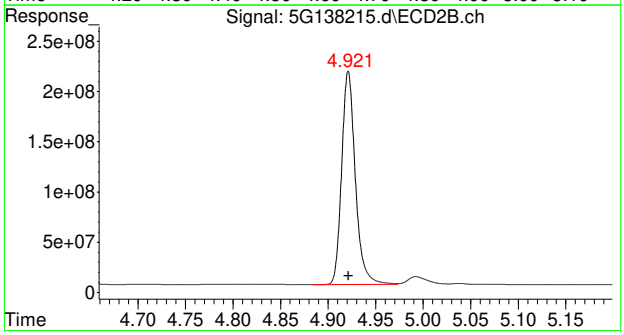
#26 Decachlorobiphenyl

R.T.: 14.206 min
Delta R.T.: 0.000 min
Response: 1748413612
Conc: 4.13 PPB



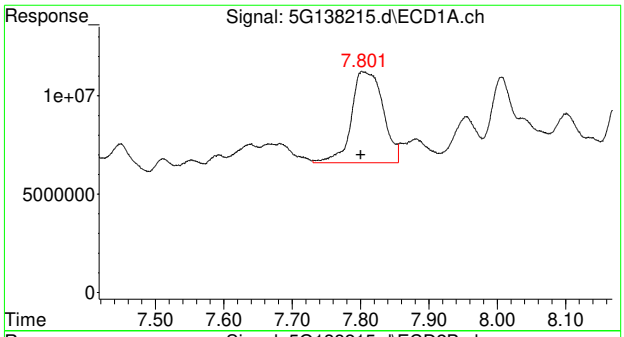
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.620 min
Delta R.T.: 0.000 min
Response: 1988199380
Conc: 5.00 PPB



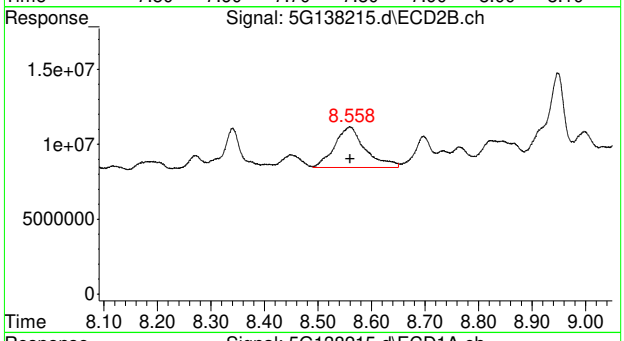
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.921 min
Delta R.T.: 0.000 min
Response: 2131358579
Conc: 5.00 PPB



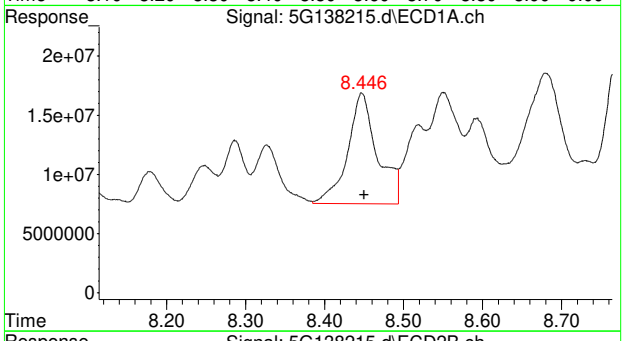
#28 Toxaphene{A}

R.T.: 7.801 min
Delta R.T.: 0.001 min
Response: 150082814
Conc: 49.91 PPB m



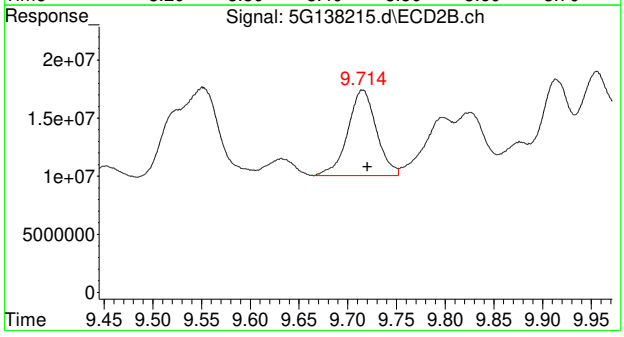
#28 Toxaphene{A}

R.T.: 8.558 min
Delta R.T.: -0.002 min
Response: 108951678
Conc: 42.80 PPB m



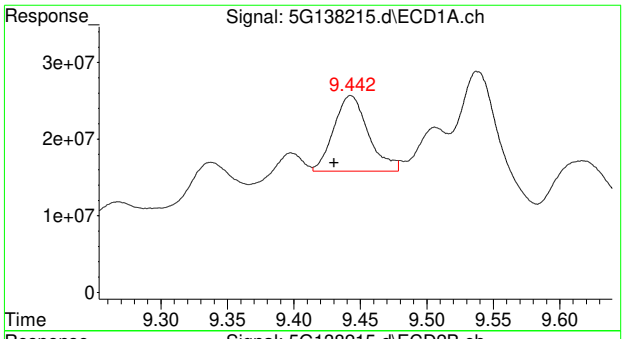
#29 Toxaphene{B}

R.T.: 8.447 min
Delta R.T.: -0.003 min
Response: 244504866
Conc: 62.95 PPB



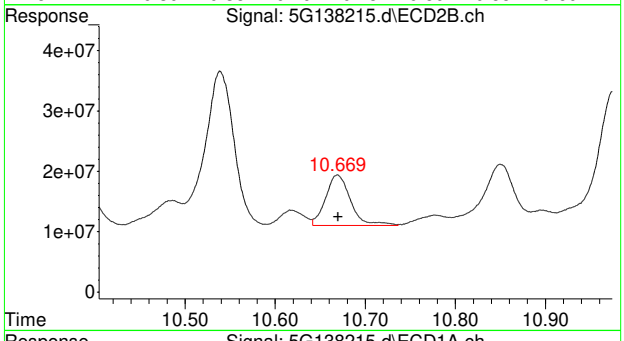
#29 Toxaphene{B}

R.T.: 9.714 min
Delta R.T.: -0.006 min
Response: 151034010
Conc: 12.66 PPB m



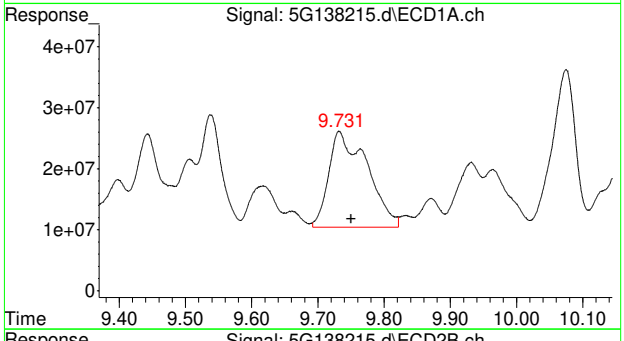
#30 Toxaphene{C}

R.T.: 9.442 min
Delta R.T.: 0.012 min
Response: 178196822
Conc: 41.96 PPB m



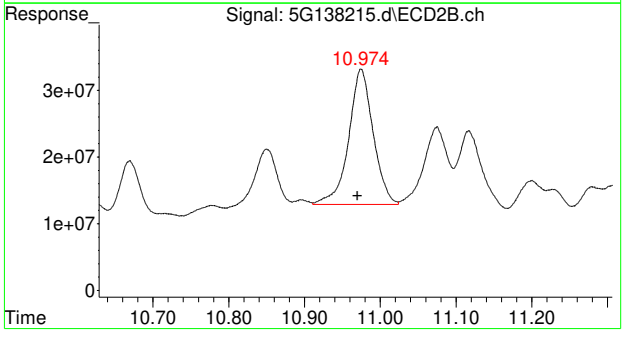
#30 Toxaphene{C}

R.T.: 10.669 min
Delta R.T.: 0.000 min
Response: 160724866
Conc: 57.04 PPB m



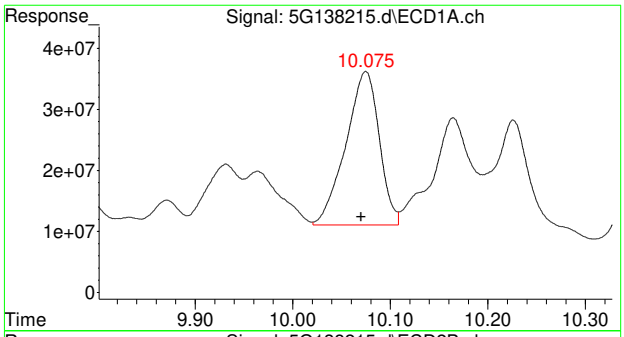
#31 Toxaphene{D}

R.T.: 9.731 min
Delta R.T.: -0.019 min
Response: 635369938
Conc: 78.91 PPB m



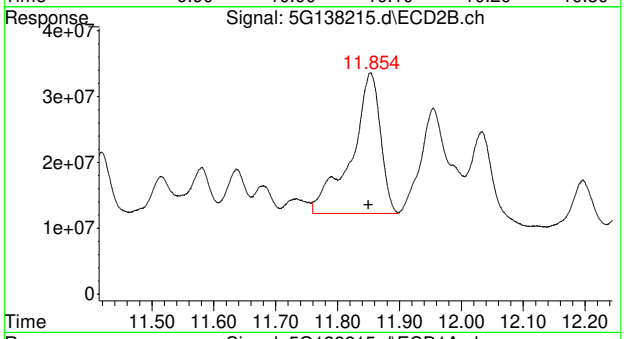
#31 Toxaphene{D}

R.T.: 10.974 min
Delta R.T.: 0.004 min
Response: 457270048
Conc: 63.12 PPB m



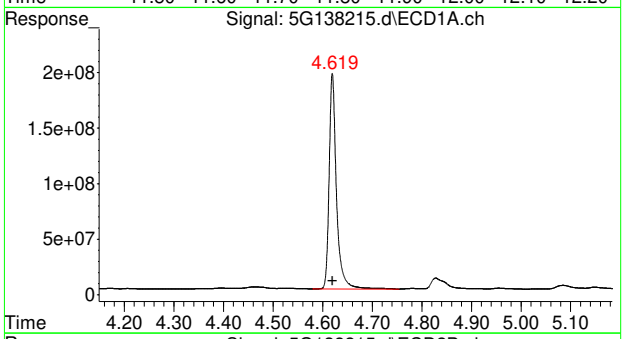
#32 Toxaphene{E}

R.T.: 10.075 min
Delta R.T.: 0.005 min
Response: 599860758
Conc: 55.36 PPB m



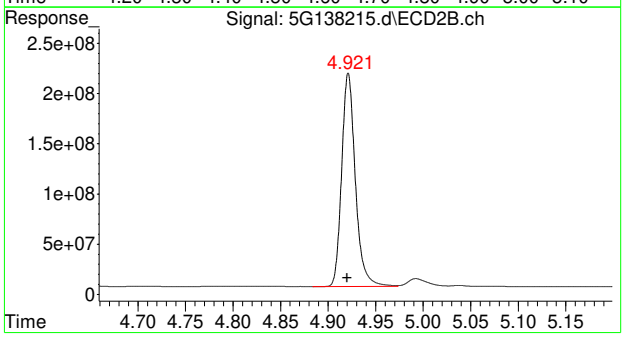
#32 Toxaphene{E}

R.T.: 11.854 min
Delta R.T.: 0.004 min
Response: 696429839
Conc: 70.53 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.620 min
Delta R.T.: 0.000 min
Response: 1988199380
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.921 min
Delta R.T.: 0.001 min
Response: 2131358579
Conc: 5.00 PPB

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g5g3634\
Data File : 5G138220.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Jun 2024 11:18 am
Operator : rebeccak
Sample : icc3634-2.5 (pest mix)
Misc : op55026,G5G3634,5.0,,,10,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 13:20:57 2024
Quant Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M
Quant Title : PEST/PCB
QLast Update : Wed Jun 05 11:15:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
		Internal Standards							
1)	I	1-bromo-2...	4.621	4.922	1908.0E6	1933.4E6	5.000	5.000	
27)	I	1-bromo-2...	4.621	4.922	1908.0E6	1933.4E6	5.000	5.000	
33)	I	1-bromo-2...	4.621	4.922	1908.0E6	1933.4E6	5.000	5.000	
		System Monitoring Compounds							
2)	SAB	Tetrachlo...	5.252	5.743	492.4E6	1224.0E6	2.233	2.775	
		Spiked Amount 40.000	Range 30 - 150		Recovery =		5.58%#	6.94%#	
26)	SA	Decachlor...	12.456	14.204	1299.1E6	908.3E6	2.792	3.528	#
		Spiked Amount 40.000			Recovery =		6.98%	8.82%	
		Target Compounds							
3)		hexachlor...	5.582	6.232	1758.8E6	1749.0E6	2.855	2.622	
4)	A	alpha-BHC	5.728	6.386	1812.3E6	2078.9E6	2.605	2.894	
5)	MA	gamma-BHC	6.017	6.793	1635.9E6	1846.3E6	2.628	2.895	
6)	MA	Heptachlor	6.493	7.342	1642.3E6	1221.8E6	2.718	2.158	
7)	B	beta-BHC	6.101	6.882	569.9E6	771.9E6	2.400	2.798	
8)	B	delta-BHC	6.275	7.257	1825.6E6	1839.9E6	2.830	3.046	
9)	MB	Aldrin	6.812	7.772	1660.5E6	1744.2E6	2.750	3.087	
10)		alachlor	6.982	7.611	140.6E6	184.9E6	2.966	3.138	
11)	B	Heptachlo...	7.509	8.568	1475.9E6	1546.7E6	2.815	3.204	
12)	B	gamma-Chl...	7.667	8.845	1556.4E6	1640.0E6	2.897	3.185	
13)	B	alpha-Chl...	7.833	9.064	1515.1E6	1578.5E6	2.895	3.199	
14)	A	Endosulfan I	8.004	9.152	1518.3E6	1410.6E6	2.998	3.088	
15)	B	4,4'-DDE	7.952	9.332	1360.4E6	1441.3E6	2.764	3.081	
16)	MA	Dieldrin	8.318	9.574	1569.1E6	1528.6E6	2.917	3.153	
17)	MA	Endrin	8.632	10.062	1361.2E6	1079.2E6	2.915	2.686	
18)	A	4,4'-DDD	8.766	10.258	1090.8E6	887.7E6	2.706	2.644	
19)	B	Endosulfa...	8.948	10.407	1288.5E6	1321.2E6	2.871	3.199	
20)	MA	4,4'-DDT	9.173	10.778	1073.1E6	948.1E6	2.670	2.784	
21)	B	Endrin Al...	9.567	10.968	908.0E6	936.9E6	2.719	3.229	
22)	B	Endosulfa...	10.243	11.432	1233.0E6	1284.1E6	2.895	3.420	
23)	A	Methoxychlor	9.951	12.007	512.4E6	383.1E6	2.480	2.500	
24)		Mirex	10.059	12.294	834.7E6	891.9E6	2.628	3.397	#
25)	B	Endrin Ke...	10.666	12.369	1360.9E6	1330.8E6	2.857	3.317	

SemiQuant Compounds - Not Calibrated on this Instrument

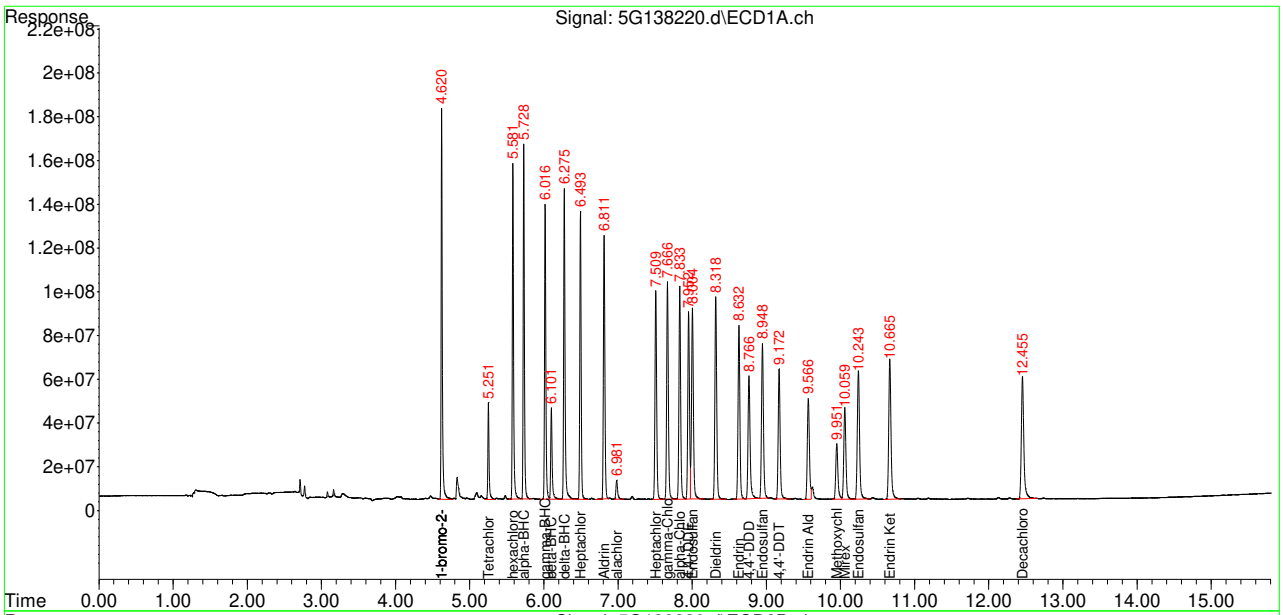
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

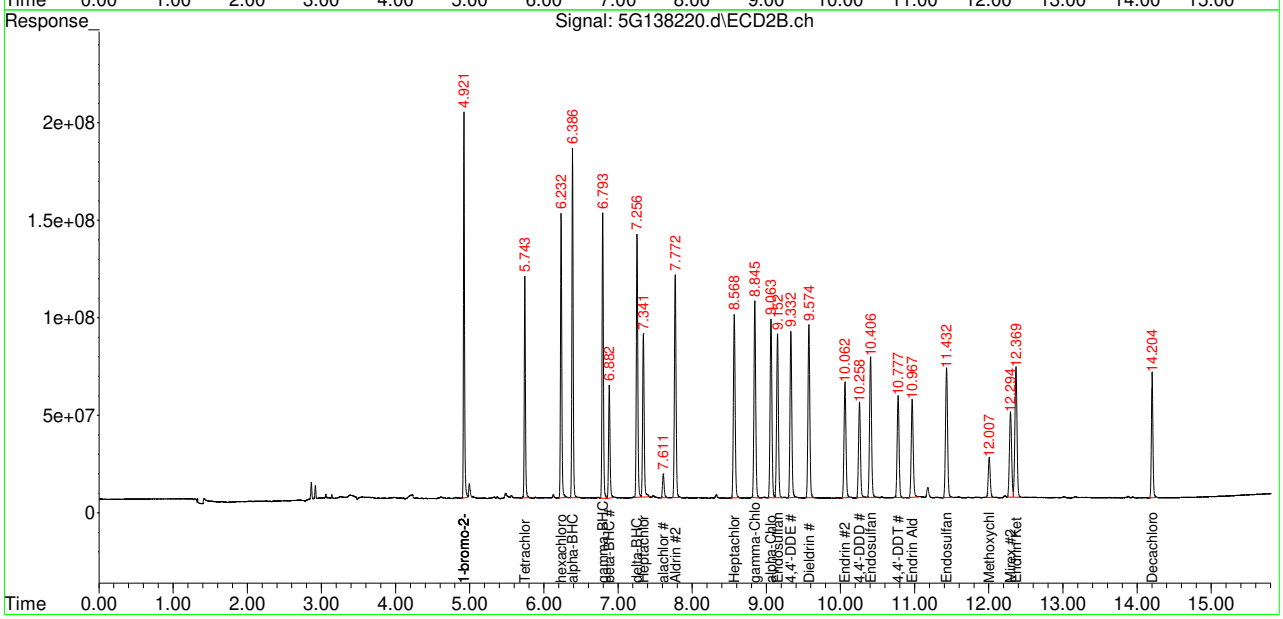
Quantitation Report (QT Reviewed)

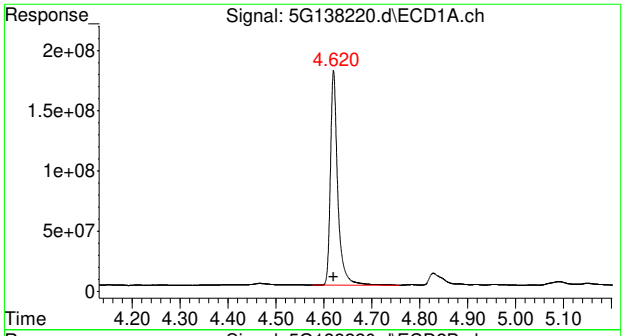
Data Path : C:\msdchem\1\data\g5g3634\
Data File : 5G138220.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Jun 2024 11:18 am
Operator : rebeccak
Sample : icc3634-2.5 (pest mix)
Misc : op55026,G5G3634,5.0,,,10,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 13:20:57 2024
Quant Method : C:\MSDCHEM\1\METHODS\5pstlvi3634a.M
Quant Title : PEST/PCB
QLast Update : Wed Jun 05 11:15:18 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

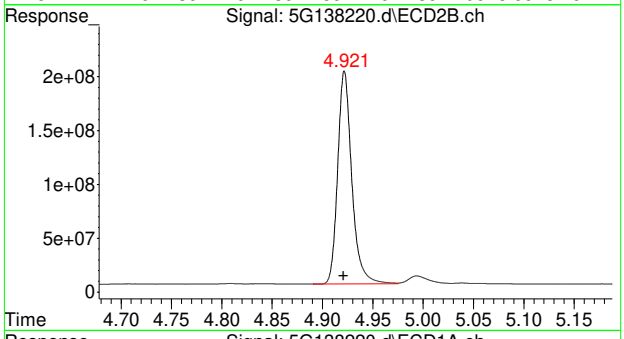






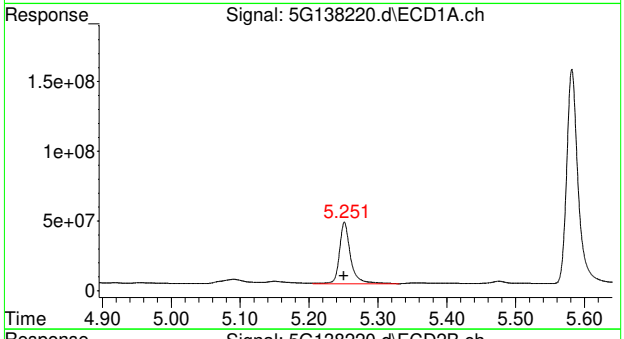
#1 1-bromo-2-nitrobenzene

R.T.: 4.621 min
Delta R.T.: 0.000 min
Response: 1907980886
Conc: 5.00 PPB



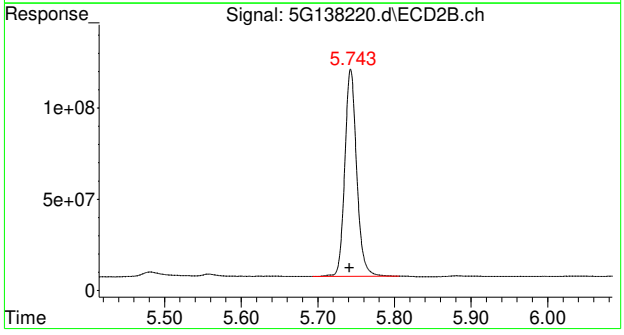
#1 1-bromo-2-nitrobenzene

R.T.: 4.922 min
Delta R.T.: 0.000 min
Response: 1933443008
Conc: 5.00 PPB



#2 Tetrachloro-m-xylene

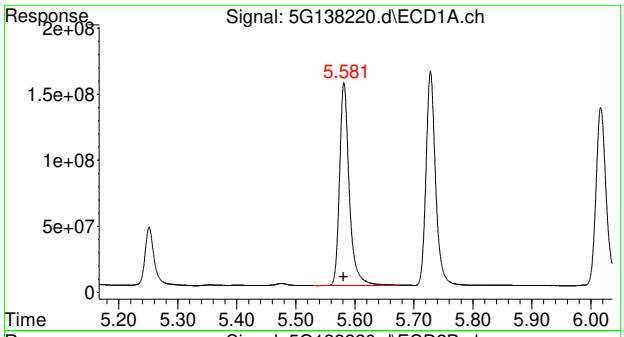
R.T.: 5.252 min
Delta R.T.: 0.001 min
Response: 492394280
Conc: 2.23 PPB



#2 Tetrachloro-m-xylene

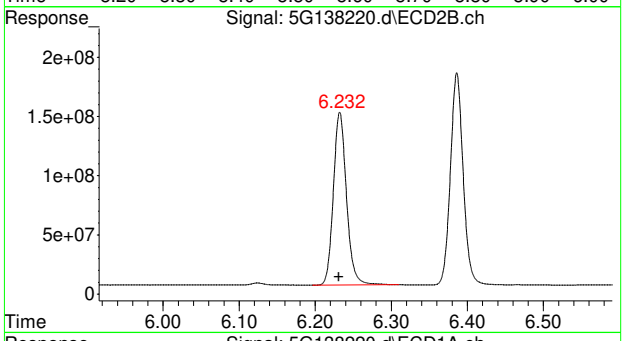
R.T.: 5.743 min
Delta R.T.: 0.002 min
Response: 1223995797
Conc: 2.78 PPB

11.3.9 11



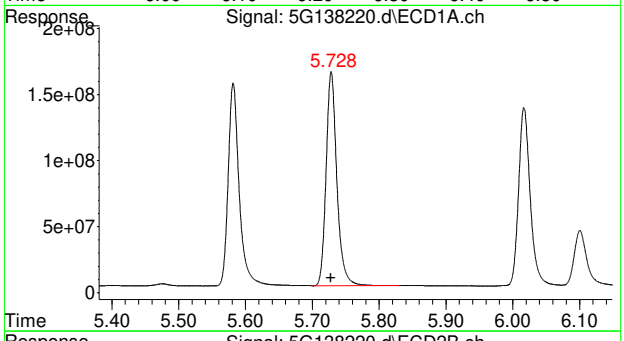
#3 hexachlorobenzene

R.T.: 5.582 min
Delta R.T.: 0.001 min
Response: 1758797174
Conc: 2.85 PPB



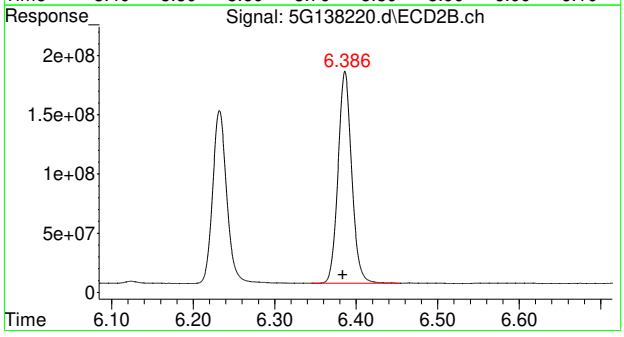
#3 hexachlorobenzene

R.T.: 6.232 min
Delta R.T.: 0.002 min
Response: 1749018185
Conc: 2.62 PPB



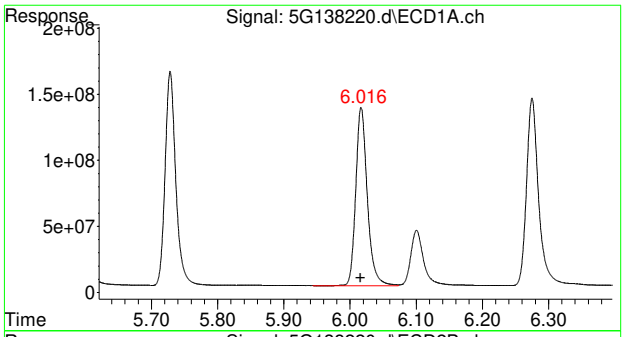
#4 alpha-BHC

R.T.: 5.728 min
Delta R.T.: 0.001 min
Response: 1812308800
Conc: 2.61 PPB



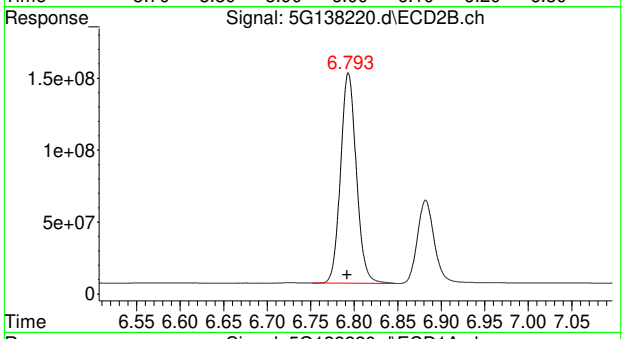
#4 alpha-BHC

R.T.: 6.386 min
Delta R.T.: 0.003 min
Response: 2078947022
Conc: 2.89 PPB



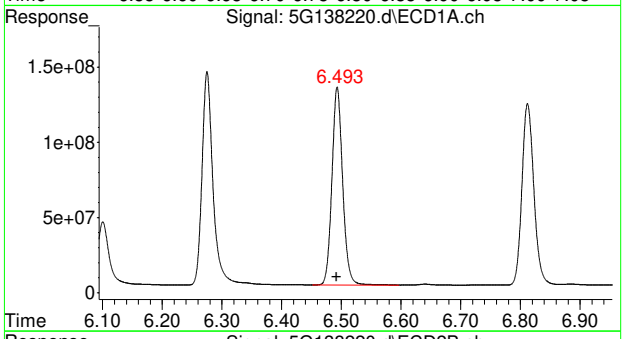
#5 gamma-BHC

R.T.: 6.017 min
Delta R.T.: 0.002 min
Response: 1635924850
Conc: 2.63 PPB



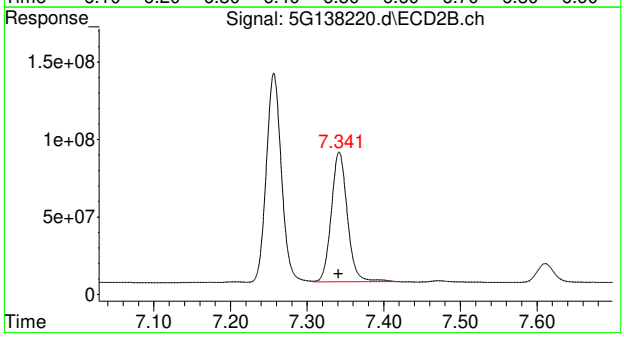
#5 gamma-BHC

R.T.: 6.793 min
Delta R.T.: 0.001 min
Response: 1846327949
Conc: 2.90 PPB



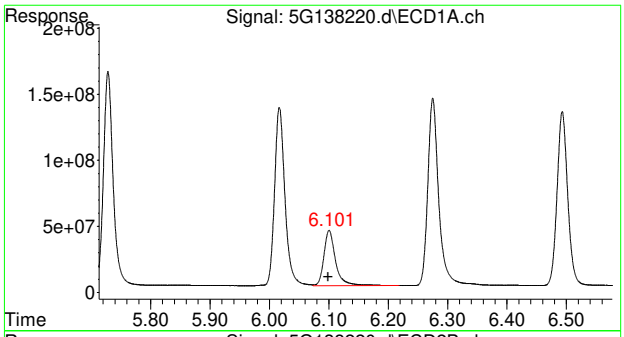
#6 Heptachlor

R.T.: 6.493 min
Delta R.T.: 0.002 min
Response: 1642321824
Conc: 2.72 PPB



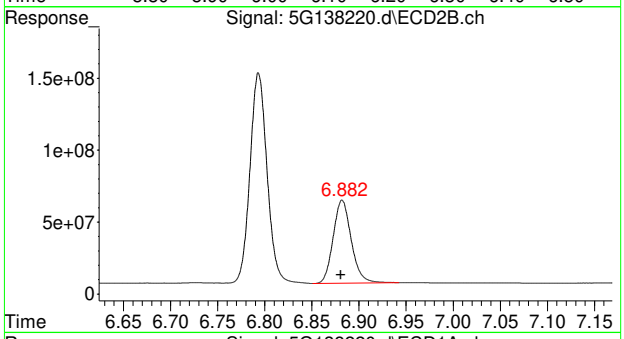
#6 Heptachlor

R.T.: 7.342 min
Delta R.T.: 0.000 min
Response: 1221817002
Conc: 2.16 PPB



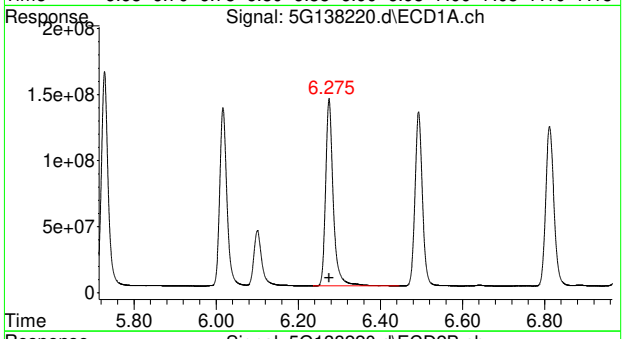
#7 beta-BHC

R.T.: 6.101 min
Delta R.T.: 0.002 min
Response: 569915811
Conc: 2.40 PPB



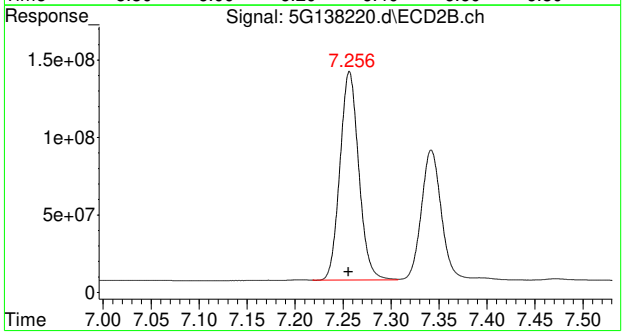
#7 beta-BHC

R.T.: 6.882 min
Delta R.T.: 0.002 min
Response: 771888610
Conc: 2.80 PPB



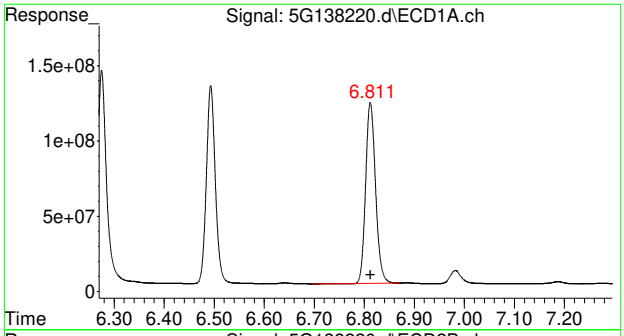
#8 delta-BHC

R.T.: 6.275 min
Delta R.T.: 0.000 min
Response: 1825638350
Conc: 2.83 PPB



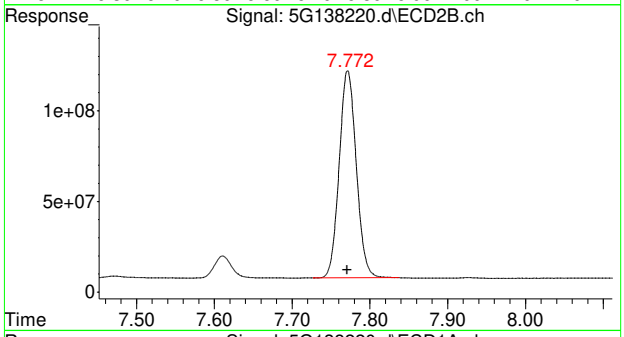
#8 delta-BHC

R.T.: 7.257 min
Delta R.T.: 0.001 min
Response: 1839919077
Conc: 3.05 PPB



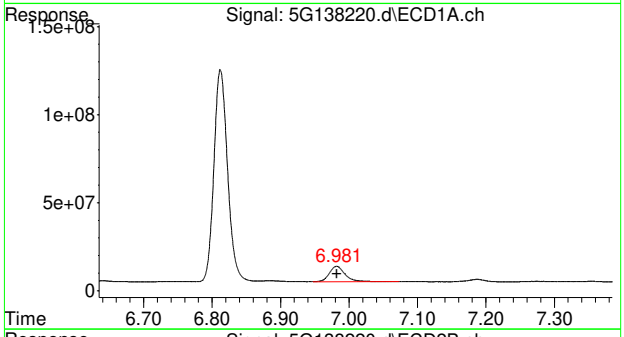
#9 Aldrin

R.T.: 6.812 min
Delta R.T.: 0.000 min
Response: 1660528718
Conc: 2.75 PPB



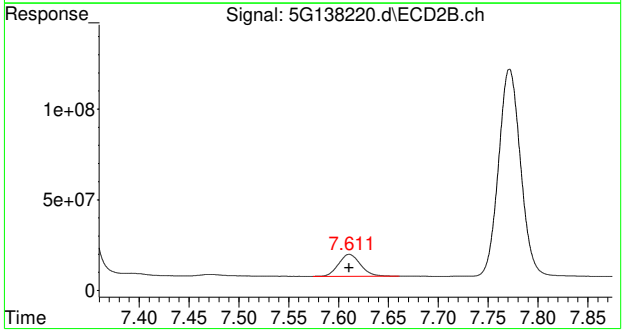
#9 Aldrin

R.T.: 7.772 min
Delta R.T.: 0.000 min
Response: 1744232765
Conc: 3.09 PPB



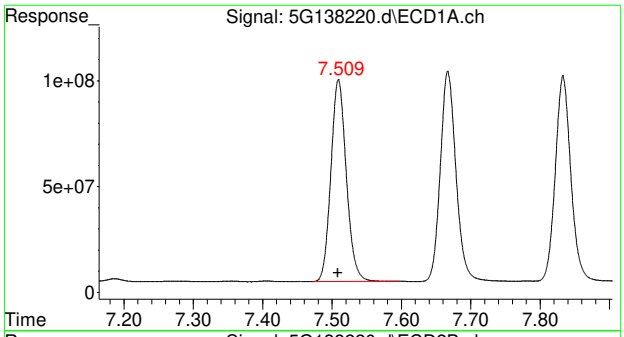
#10 alachlor

R.T.: 6.982 min
Delta R.T.: 0.000 min
Response: 140586242
Conc: 2.97 PPB



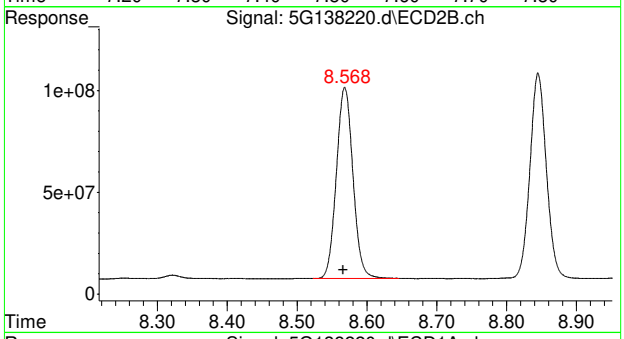
#10 alachlor

R.T.: 7.611 min
Delta R.T.: 0.000 min
Response: 184919220
Conc: 3.14 PPB



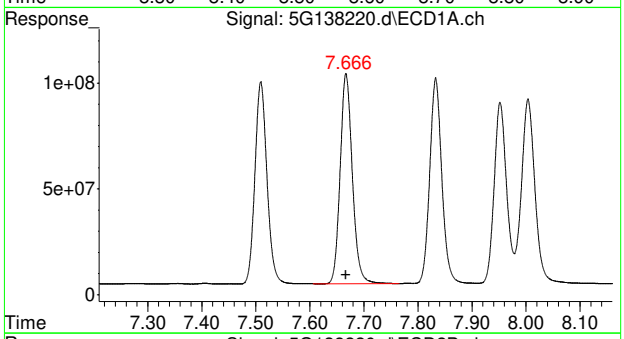
#11 Heptachlor Epoxide

R.T.: 7.509 min
Delta R.T.: 0.001 min
Response: 1475862522
Conc: 2.81 PPB



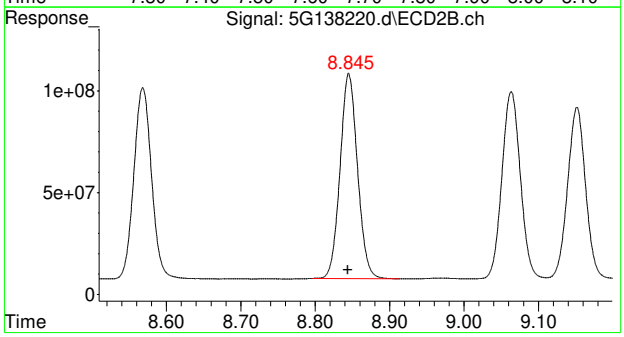
#11 Heptachlor Epoxide

R.T.: 8.568 min
Delta R.T.: 0.003 min
Response: 1546687634
Conc: 3.20 PPB



#12 gamma-Chlordane

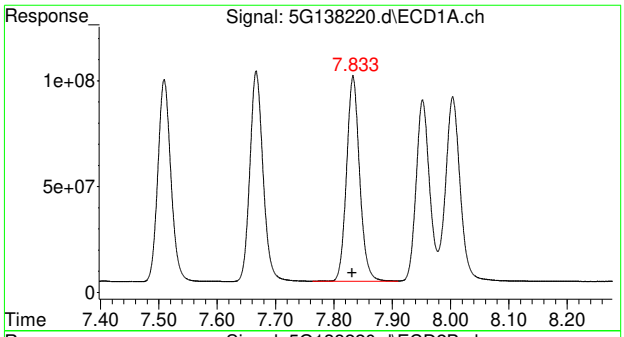
R.T.: 7.667 min
Delta R.T.: 0.000 min
Response: 1556397313
Conc: 2.90 PPB



#12 gamma-Chlordane

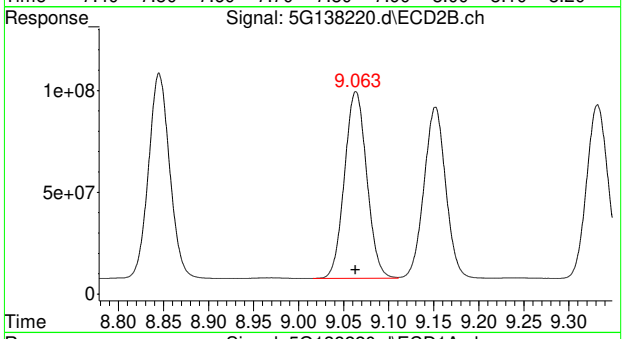
R.T.: 8.845 min
Delta R.T.: 0.001 min
Response: 1640024323
Conc: 3.19 PPB

11.3.9 11



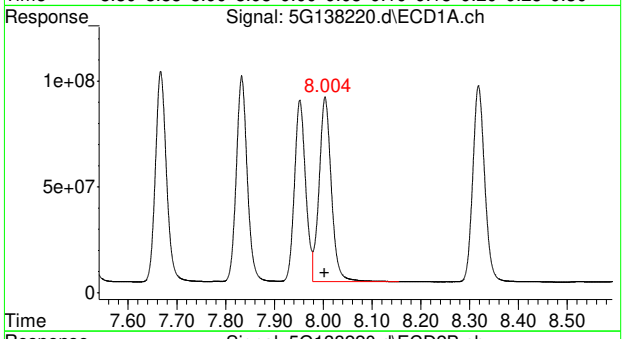
#13 alpha-Chlordane

R.T.: 7.833 min
Delta R.T.: 0.001 min
Response: 1515141638
Conc: 2.89 PPB



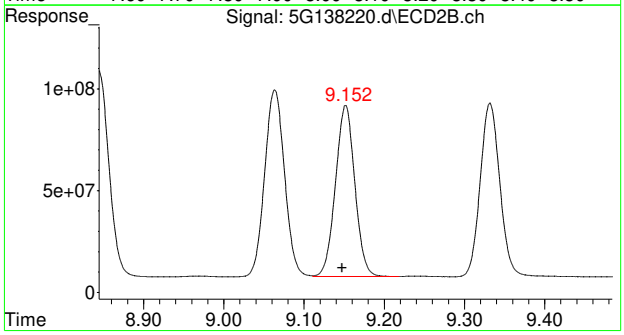
#13 alpha-Chlordane

R.T.: 9.064 min
Delta R.T.: 0.000 min
Response: 1578537774
Conc: 3.20 PPB



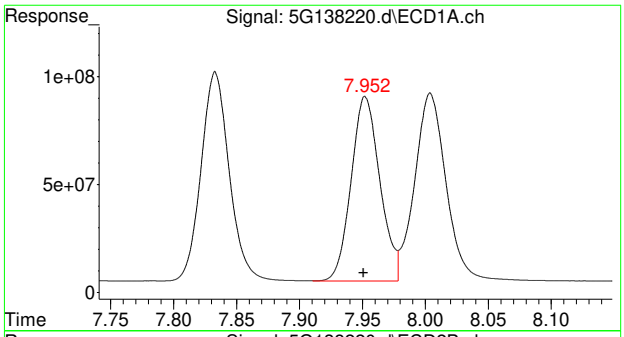
#14 Endosulfan I

R.T.: 8.004 min
Delta R.T.: 0.001 min
Response: 1518341903
Conc: 3.00 PPB



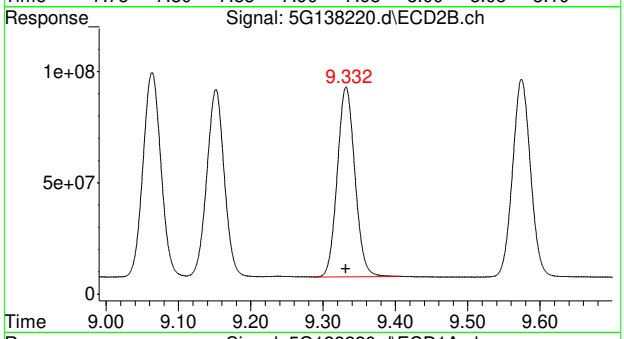
#14 Endosulfan I

R.T.: 9.152 min
Delta R.T.: 0.005 min
Response: 1410621391
Conc: 3.09 PPB



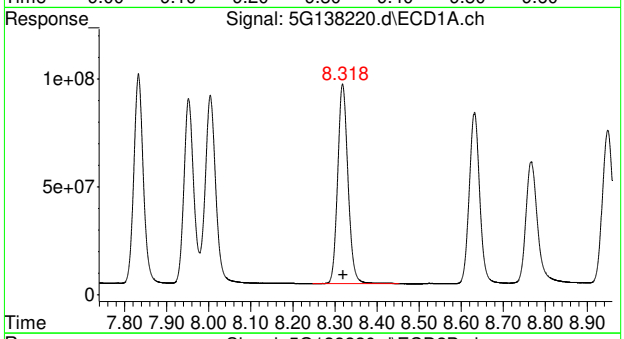
#15 4,4'-DDE

R.T.: 7.952 min
Delta R.T.: 0.001 min
Response: 1360352486
Conc: 2.76 PPB



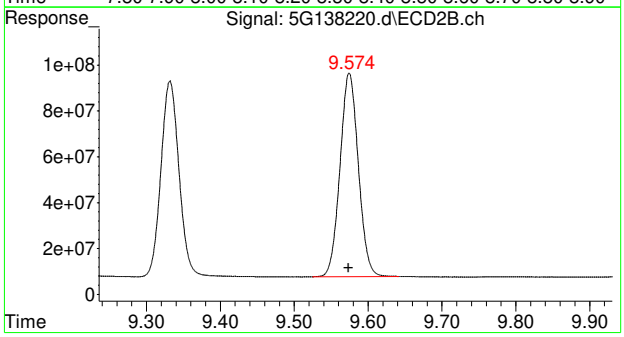
#15 4,4'-DDE

R.T.: 9.332 min
Delta R.T.: 0.000 min
Response: 1441305789
Conc: 3.08 PPB



#16 Dieldrin

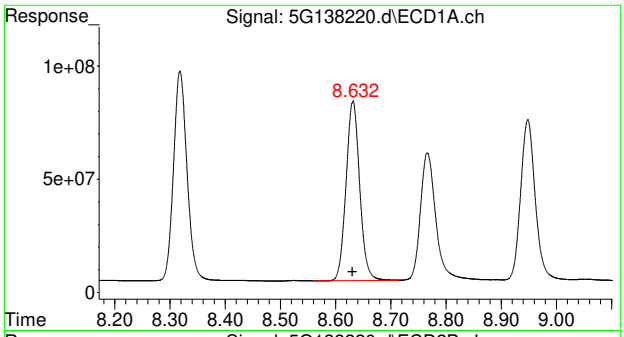
R.T.: 8.318 min
Delta R.T.: 0.000 min
Response: 1569102078
Conc: 2.92 PPB



#16 Dieldrin

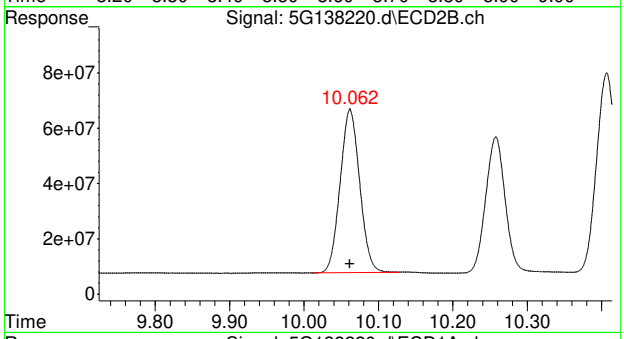
R.T.: 9.574 min
Delta R.T.: 0.001 min
Response: 1528556904
Conc: 3.15 PPB

11.3.9 11



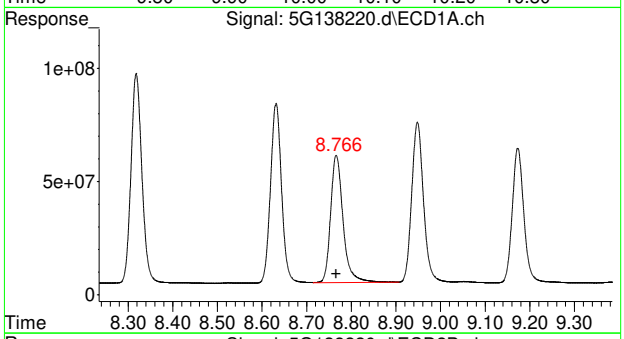
#17 Endrin

R.T.: 8.632 min
Delta R.T.: 0.001 min
Response: 1361204576
Conc: 2.92 PPB



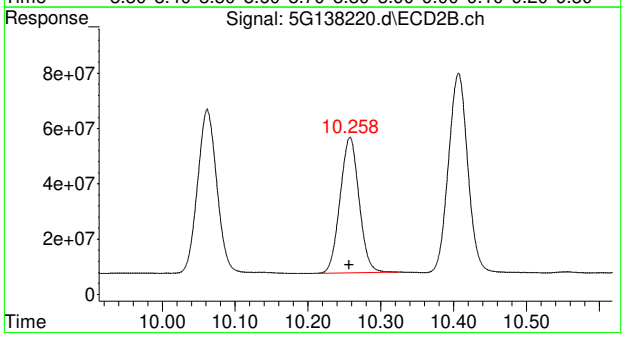
#17 Endrin

R.T.: 10.062 min
Delta R.T.: 0.000 min
Response: 1079151801
Conc: 2.69 PPB



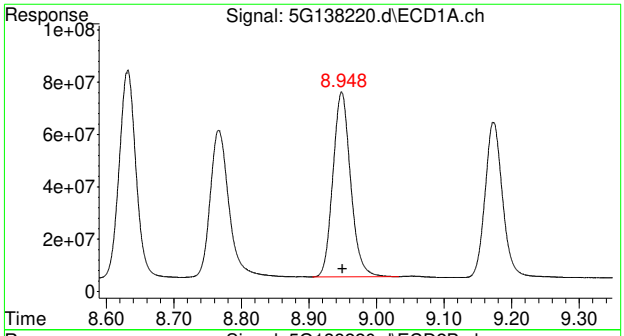
#18 4,4'-DDD

R.T.: 8.766 min
Delta R.T.: 0.000 min
Response: 1090815595
Conc: 2.71 PPB



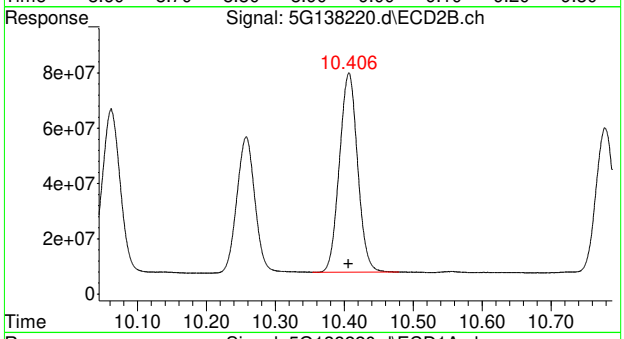
#18 4,4'-DDD

R.T.: 10.258 min
Delta R.T.: 0.002 min
Response: 887703076
Conc: 2.64 PPB



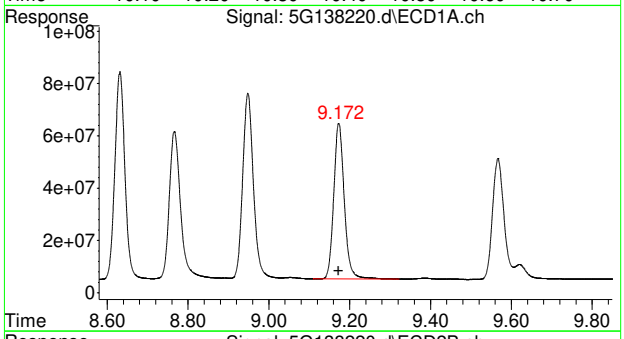
#19 Endosulfan II

R.T.: 8.948 min
Delta R.T.: 0.000 min
Response: 1288507845
Conc: 2.87 PPB



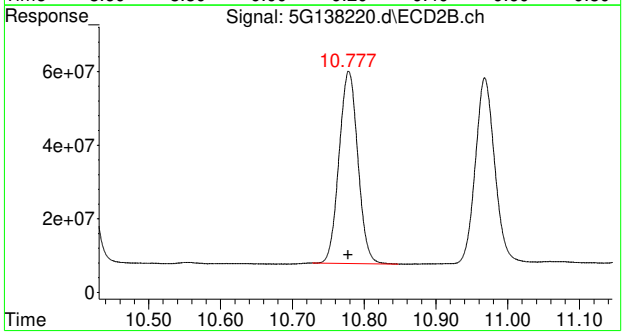
#19 Endosulfan II

R.T.: 10.407 min
Delta R.T.: 0.001 min
Response: 1321201437
Conc: 3.20 PPB



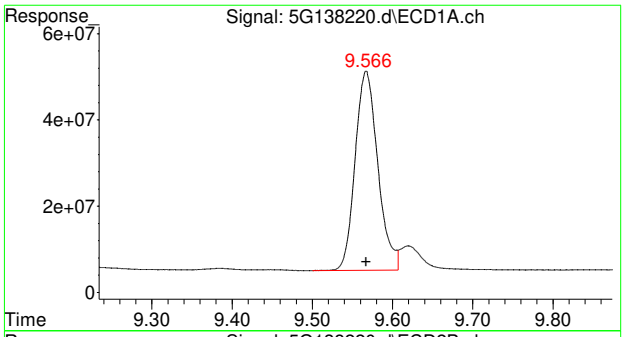
#20 4,4'-DDT

R.T.: 9.173 min
Delta R.T.: 0.001 min
Response: 1073101940
Conc: 2.67 PPB



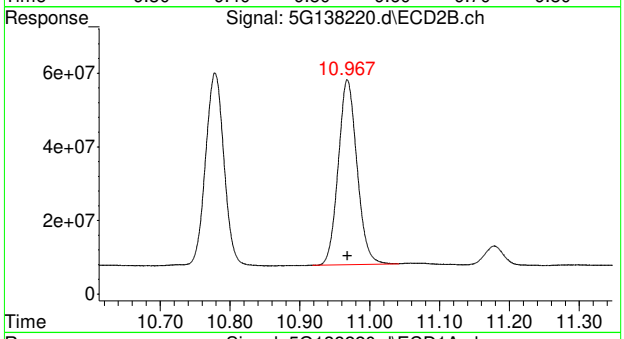
#20 4,4'-DDT

R.T.: 10.778 min
Delta R.T.: 0.000 min
Response: 948107198
Conc: 2.78 PPB



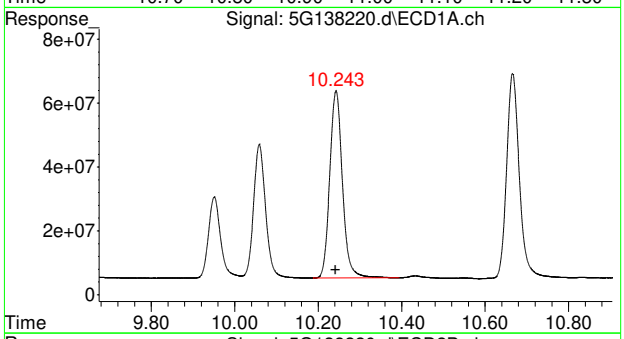
#21 Endrin Aldehyde

R.T.: 9.567 min
Delta R.T.: 0.000 min
Response: 908032573
Conc: 2.72 PPB



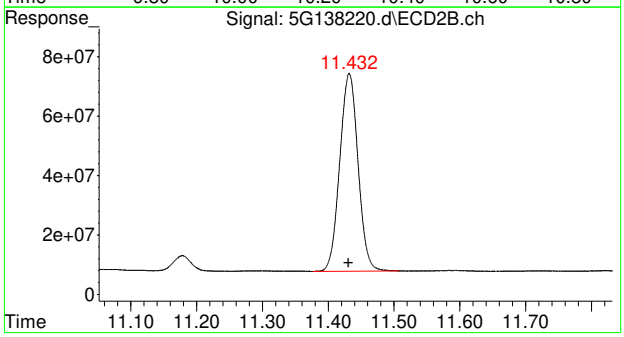
#21 Endrin Aldehyde

R.T.: 10.968 min
Delta R.T.: 0.000 min
Response: 936854591
Conc: 3.23 PPB



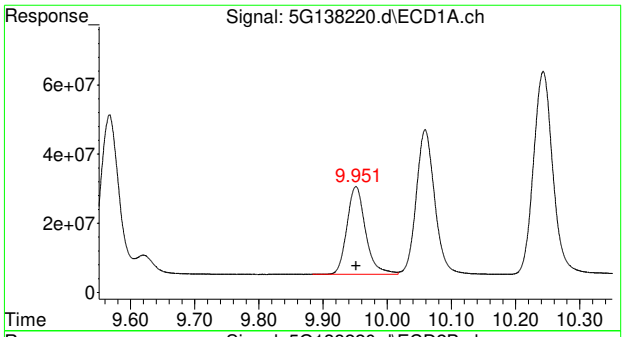
#22 Endosulfan Sulfate

R.T.: 10.243 min
Delta R.T.: 0.002 min
Response: 1232960949
Conc: 2.89 PPB



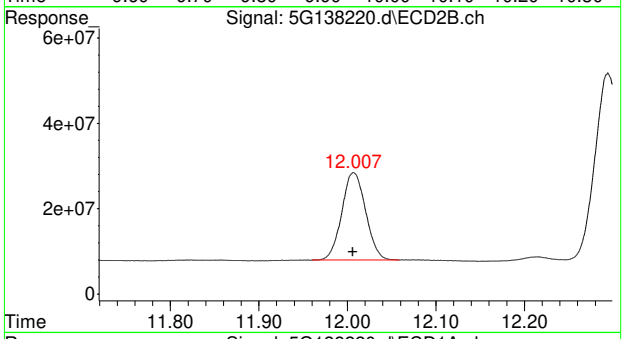
#22 Endosulfan Sulfate

R.T.: 11.432 min
Delta R.T.: 0.001 min
Response: 1284061755
Conc: 3.42 PPB



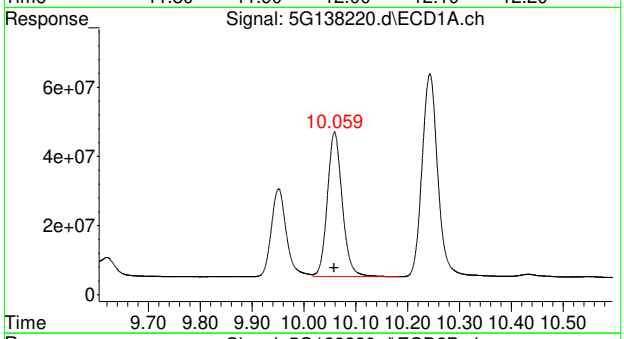
#23 Methoxychlor

R.T.: 9.951 min
Delta R.T.: 0.000 min
Response: 512424371
Conc: 2.48 PPB



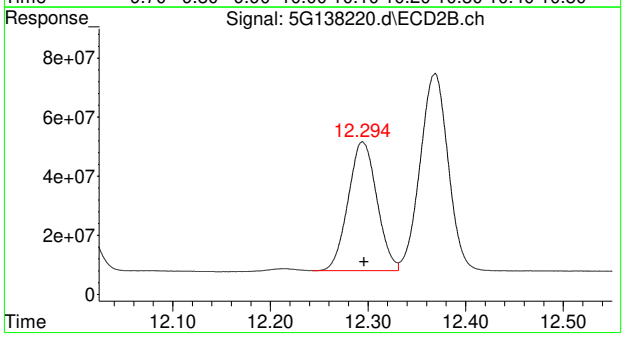
#23 Methoxychlor

R.T.: 12.007 min
Delta R.T.: 0.001 min
Response: 383086254
Conc: 2.50 PPB



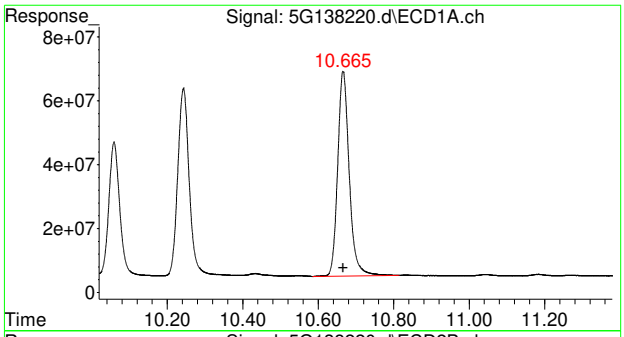
#24 Mirex

R.T.: 10.059 min
Delta R.T.: 0.000 min
Response: 834667196
Conc: 2.63 PPB



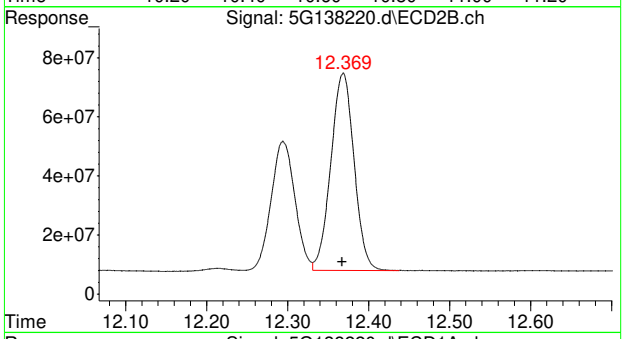
#24 Mirex

R.T.: 12.294 min
Delta R.T.: -0.002 min
Response: 891880524
Conc: 3.40 PPB



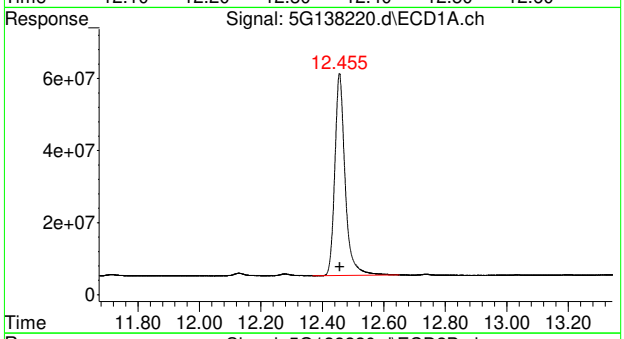
#25 Endrin Ketone

R.T.: 10.666 min
Delta R.T.: 0.000 min
Response: 1360884380
Conc: 2.86 PPB



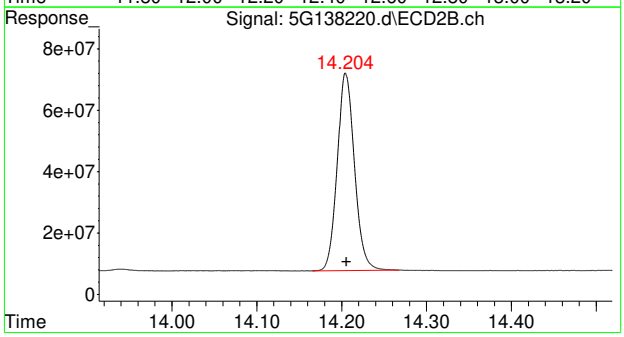
#25 Endrin Ketone

R.T.: 12.369 min
Delta R.T.: 0.002 min
Response: 1330843186
Conc: 3.32 PPB



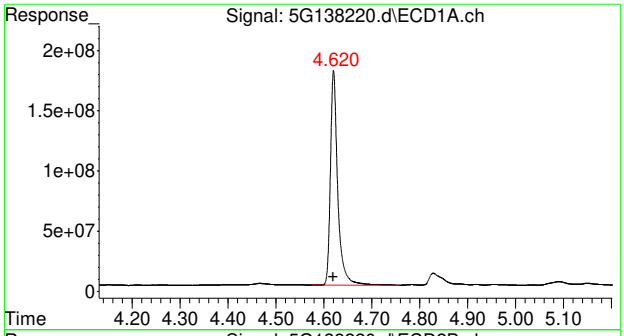
#26 Decachlorobiphenyl

R.T.: 12.456 min
Delta R.T.: 0.000 min
Response: 1299134311
Conc: 2.79 PPB



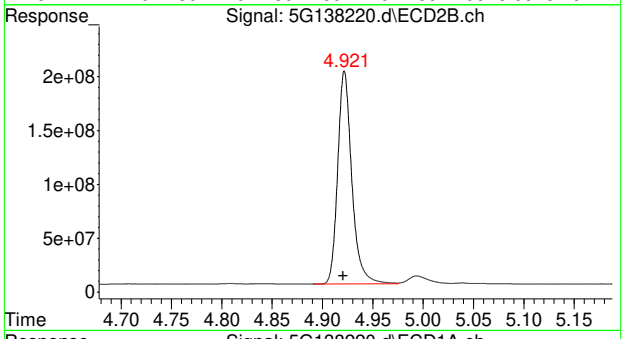
#26 Decachlorobiphenyl

R.T.: 14.204 min
Delta R.T.: 0.000 min
Response: 908275456
Conc: 3.53 PPB



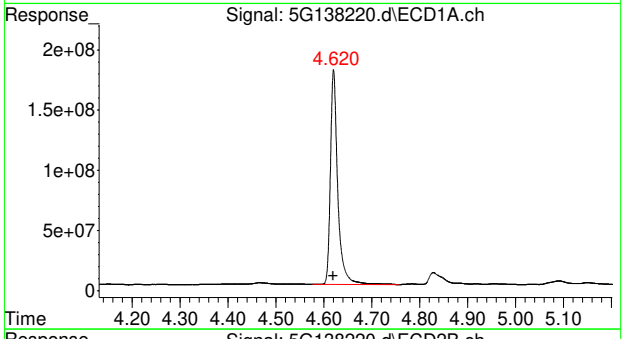
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.621 min
Delta R.T.: 0.000 min
Response: 1907980886
Conc: 5.00 PPB



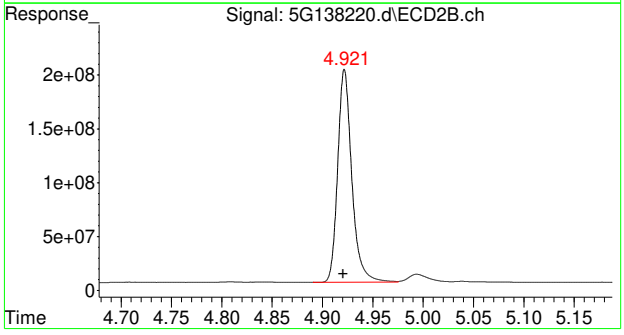
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.922 min
Delta R.T.: 0.001 min
Response: 1933443008
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.621 min
Delta R.T.: 0.000 min
Response: 1907980886
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.922 min
Delta R.T.: 0.001 min
Response: 1933443008
Conc: 5.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Rebecca Krug
04/03/24 17:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G8G2430\
Data File : 8g55359.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Apr 2024 7:03 am
Operator : rebeccak
Sample : icc2430-2.5 (pest mix)
Misc : op53462,g8g2430,5.0,,,10,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 09:30:16 2024
Quant Method : C:\msdchem\1\METHODS\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Wed Apr 03 09:26:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
		Internal Standards							
1)	I	1-bromo-2...	4.461	4.925	645.3E6	935.4E6	5.000	5.000	
27)	I	1-bromo-2...	4.461	4.925	645.3E6	935.4E6	5.000	5.000	
33)	I	1-bromo-2...	4.461	4.925	645.3E6	935.4E6	5.000	5.000	
		System Monitoring Compounds							
2)	SAB	Tetrachlo...	5.074	5.755	317.4E6	662.2E6	2.381	2.493	
		Spiked Amount	40.000	Range	30 - 150	Recovery	=	5.95%#	6.23%#
26)	SA	Decachlor...	12.067	14.244	354.4E6	317.1E6	2.584m	2.514	
		Spiked Amount	40.000			Recovery	=	6.46%	6.28%
		Target Compounds							
3)		hexachlor...	5.394	6.253	519.4E6	708.0E6	2.524	2.579	
4)	A	alpha-BHC	5.528	6.403	422.9E6	959.6E6	2.079	2.621	#
5)	MA	gamma-BHC	5.806	6.818	450.5E6	849.3E6	2.581	2.584	
6)	MA	Heptachlor	6.269	7.375	433.5E6	727.5E6	2.628	2.560	
7)	B	beta-BHC	5.892	6.911	207.7E6	388.2E6	2.545	2.542	
8)	B	delta-BHC	6.061	7.291	390.8E6	698.0E6	2.313	2.365	
9)	MB	Aldrin	6.578	7.813	397.8E6	786.1E6	2.550	2.626	
10)		alachlor	6.727	7.636	60123994	114.9E6	2.823	2.686	
11)	B	Heptachlo...	7.245	8.618	349.2E6	722.3E6	2.501	2.594	
12)	B	gamma-Chl...	7.399	8.898	409.2E6	738.1E6	2.647	2.707	
13)	B	alpha-Chl...	7.558	9.118	375.8E6	668.7E6	2.533	2.541	
14)	A	Endosulfan I	7.721	9.209	365.5E6	650.7E6	2.678	2.487	
15)	B	4,4'-DDE	7.672	9.383	363.5E6	690.0E6	2.578	2.659	
16)	MA	Dieldrin	8.027	9.635	390.7E6	731.5E6	2.612	2.656	
17)	MA	Endrin	8.327	10.130	352.8E6	584.5E6	2.793	2.665	
18)	A	4,4'-DDD	8.455	10.316	277.7E6	581.9E6	2.387	2.642	
19)	B	Endosulfa...	8.634	10.476	338.4E6	609.9E6	2.535	2.638	
20)	MA	4,4'-DDT	8.850	10.842	299.8E6	430.5E6	3.200	3.217	
21)	B	Endrin Al...	9.227	11.038	269.0E6	434.0E6	2.484	2.595	
22)	B	Endosulfa...	9.879	11.503	308.0E6	542.2E6	2.518	2.678	
23)	A	Methoxychlor	9.613	12.069	172.1E6	198.1E6	2.755	2.651	
24)		Mirex	9.734	12.380	290.5E6	423.6E6	2.571	2.592	
25)	B	Endrin Ke...	10.299	12.449	367.8E6	585.3E6	2.586	2.647	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

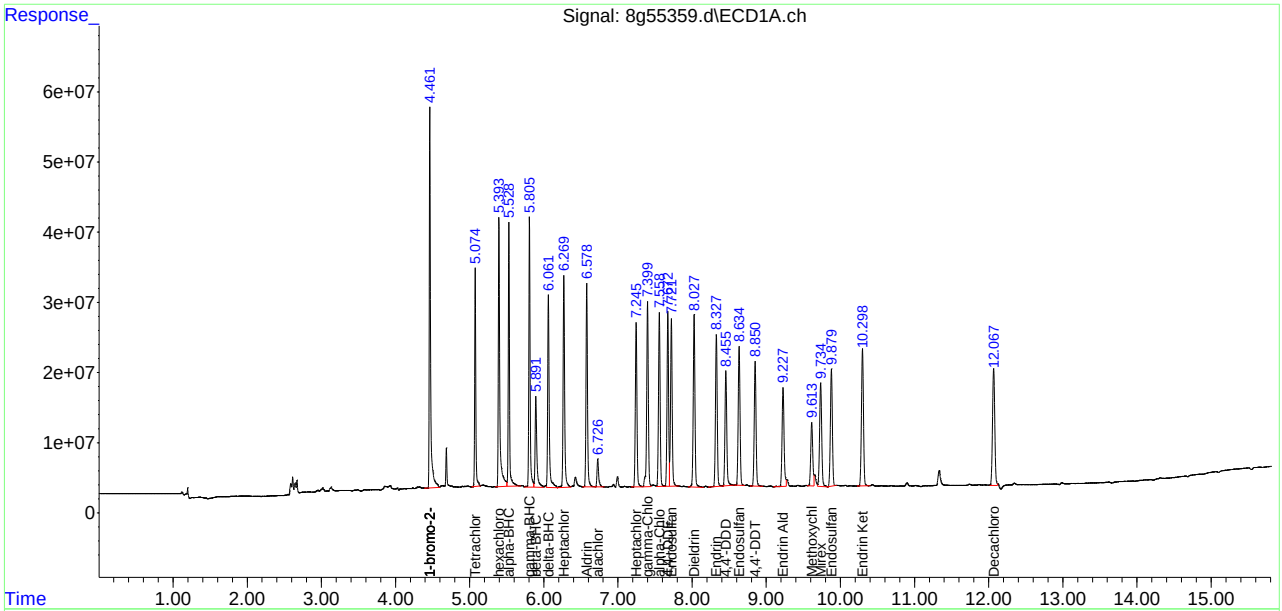
11.3.10 11

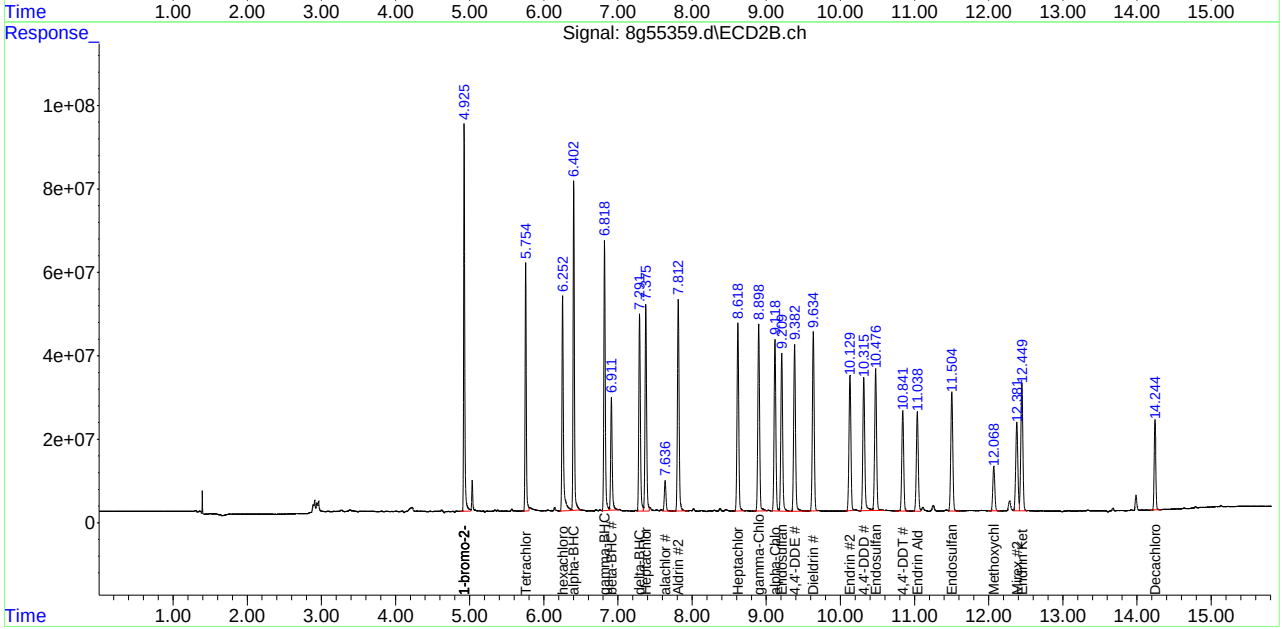
Quantitation Report (QT Reviewed)

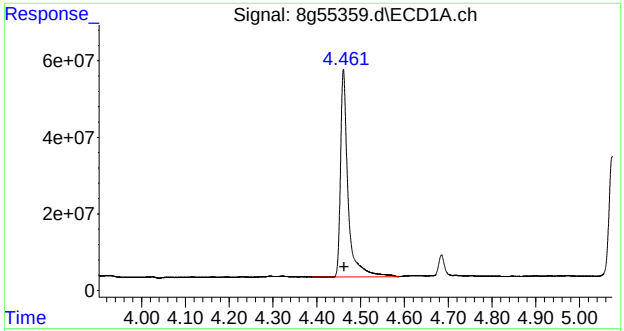
Data Path : C:\msdchem\1\DATA\G8G2430\
Data File : 8g55359.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Apr 2024 7:03 am
Operator : rebeccak
Sample : icc2430-2.5 (pest mix)
Misc : op53462,g8g2430,5.0,,,10,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 09:30:16 2024
Quant Method : C:\msdchem\1\METHODS\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Wed Apr 03 09:26:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

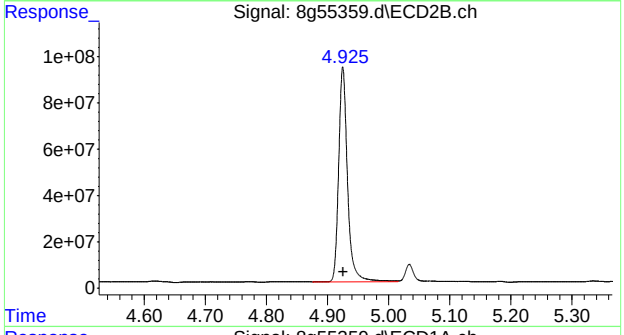






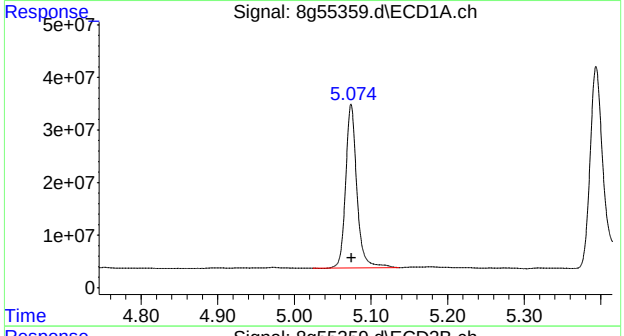
#1 1-bromo-2-nitrobenzene

R.T.: 4.461 min
Delta R.T.: 0.000 min
Response: 645262413
Conc: 5.00 PPB



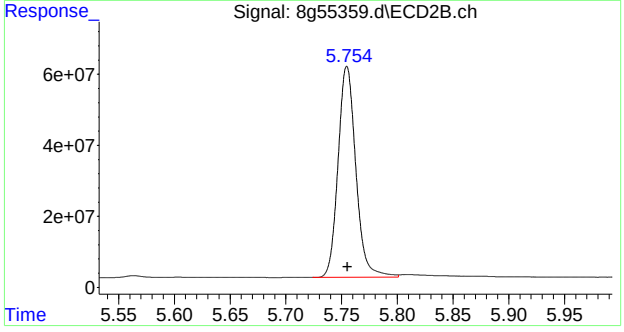
#1 1-bromo-2-nitrobenzene

R.T.: 4.925 min
Delta R.T.: 0.000 min
Response: 935418264
Conc: 5.00 PPB



#2 Tetrachloro-m-xylene

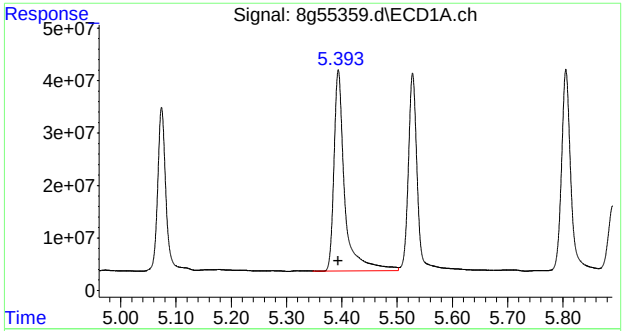
R.T.: 5.074 min
Delta R.T.: 0.000 min
Response: 317449965
Conc: 2.38 PPB



#2 Tetrachloro-m-xylene

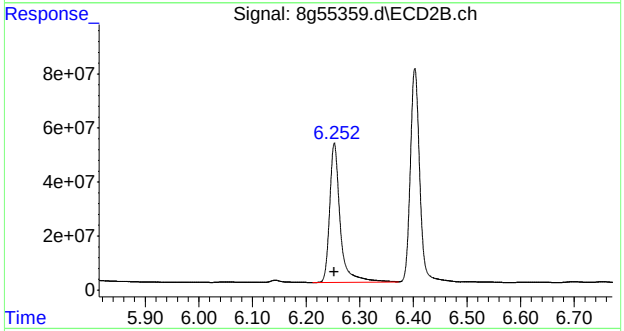
R.T.: 5.755 min
Delta R.T.: 0.000 min
Response: 662211313
Conc: 2.49 PPB

11.3.10 11



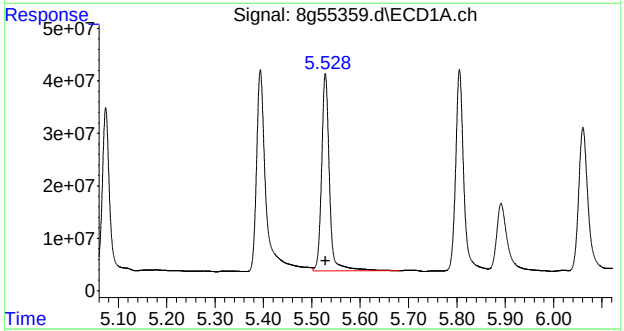
#3 hexachlorobenzene

R.T.: 5.394 min
Delta R.T.: 0.000 min
Response: 519406871
Conc: 2.52 PPB



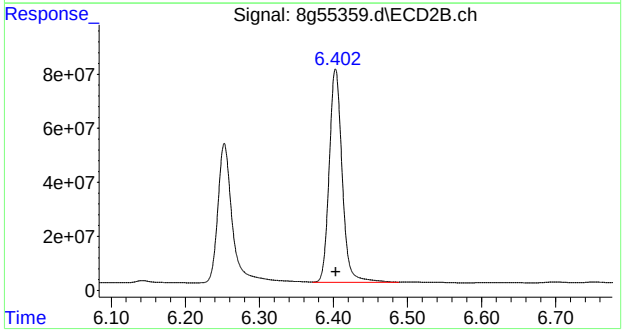
#3 hexachlorobenzene

R.T.: 6.253 min
Delta R.T.: 0.000 min
Response: 707980873
Conc: 2.58 PPB



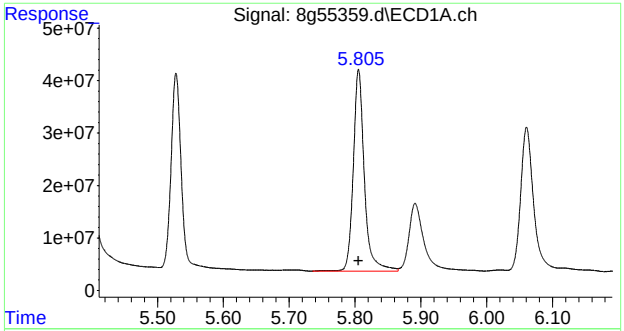
#4 alpha-BHC

R.T.: 5.528 min
Delta R.T.: 0.000 min
Response: 422862977
Conc: 2.08 PPB



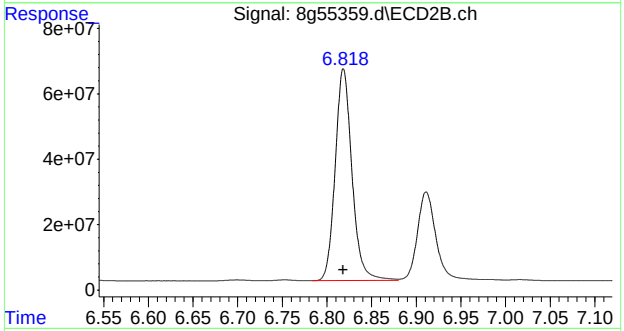
#4 alpha-BHC

R.T.: 6.403 min
Delta R.T.: 0.000 min
Response: 959602278
Conc: 2.62 PPB



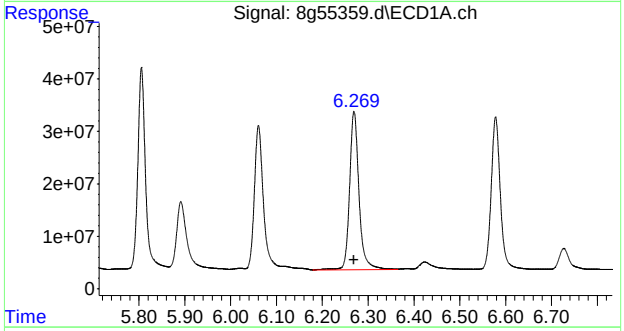
#5 gamma-BHC

R.T.: 5.806 min
Delta R.T.: 0.000 min
Response: 450470307
Conc: 2.58 PPB



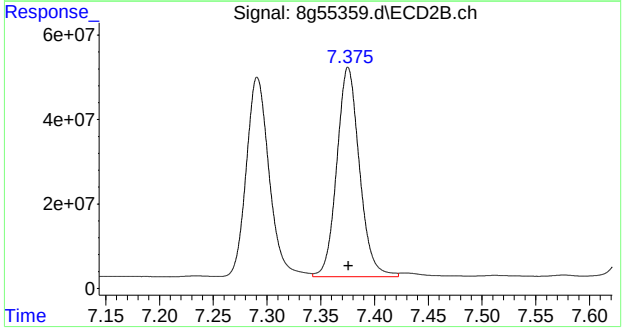
#5 gamma-BHC

R.T.: 6.818 min
Delta R.T.: 0.000 min
Response: 849300871
Conc: 2.58 PPB



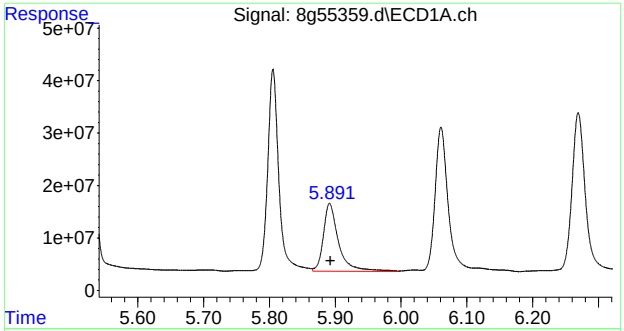
#6 Heptachlor

R.T.: 6.269 min
Delta R.T.: 0.000 min
Response: 433498119
Conc: 2.63 PPB



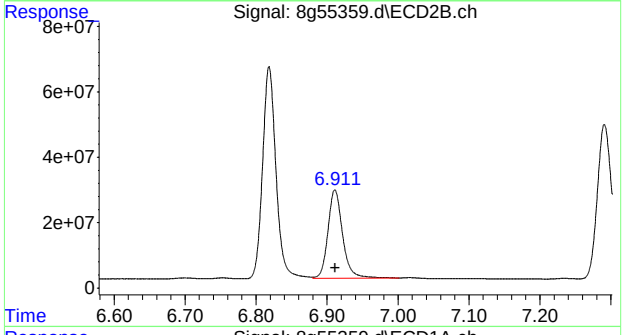
#6 Heptachlor

R.T.: 7.375 min
Delta R.T.: 0.000 min
Response: 727537414
Conc: 2.56 PPB



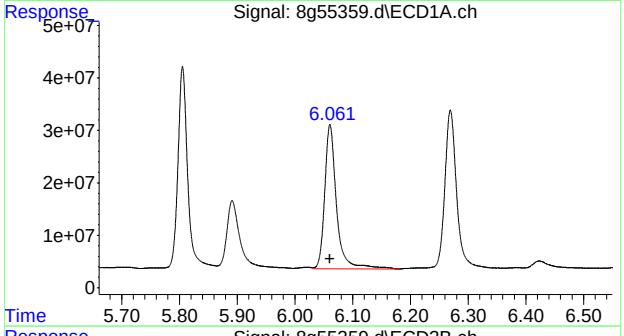
#7 beta-BHC

R.T.: 5.892 min
Delta R.T.: -0.001 min
Response: 207664498
Conc: 2.55 PPB



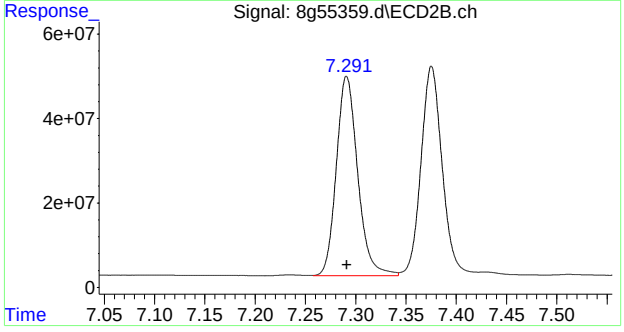
#7 beta-BHC

R.T.: 6.911 min
Delta R.T.: 0.000 min
Response: 388222649
Conc: 2.54 PPB



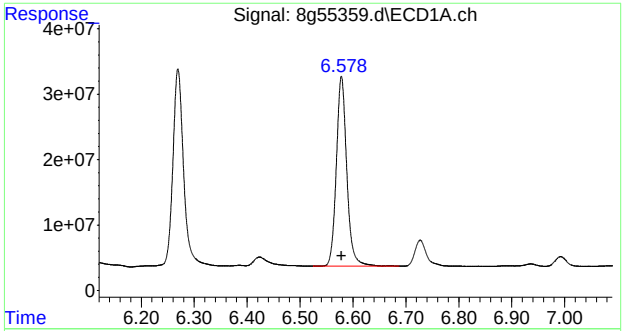
#8 delta-BHC

R.T.: 6.061 min
Delta R.T.: 0.000 min
Response: 390809180
Conc: 2.31 PPB



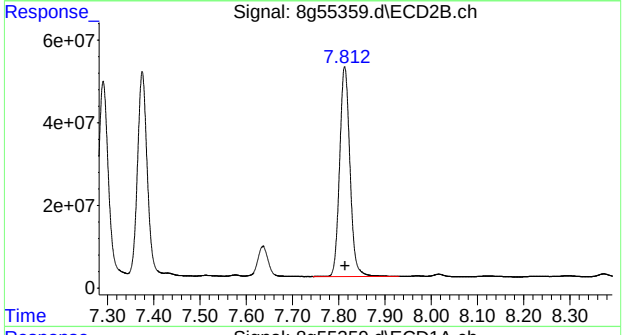
#8 delta-BHC

R.T.: 7.291 min
Delta R.T.: 0.000 min
Response: 698025891
Conc: 2.37 PPB



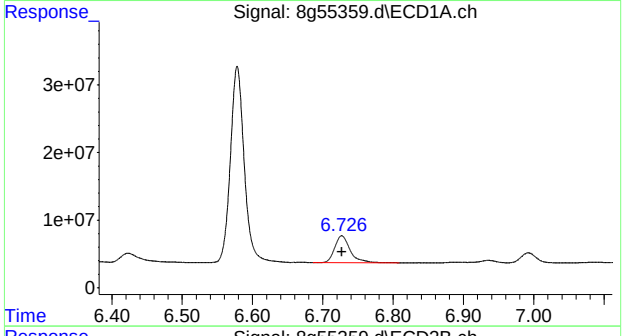
#9 Aldrin

R.T.: 6.578 min
Delta R.T.: 0.000 min
Response: 397812631
Conc: 2.55 PPB



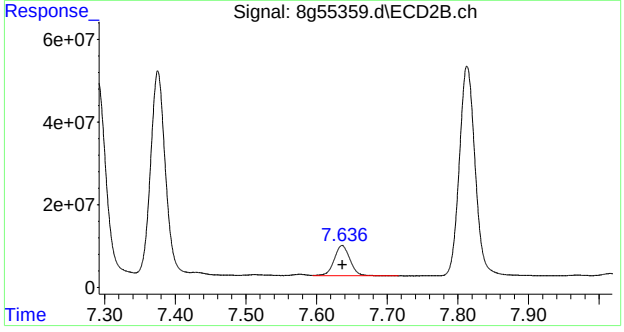
#9 Aldrin

R.T.: 7.813 min
Delta R.T.: -0.001 min
Response: 786051711
Conc: 2.63 PPB



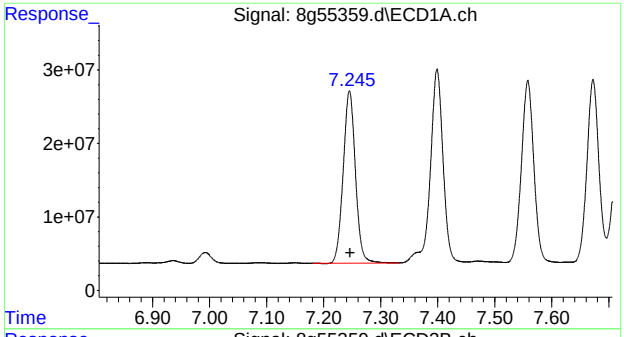
#10 alachlor

R.T.: 6.727 min
Delta R.T.: 0.000 min
Response: 60123994
Conc: 2.82 PPB



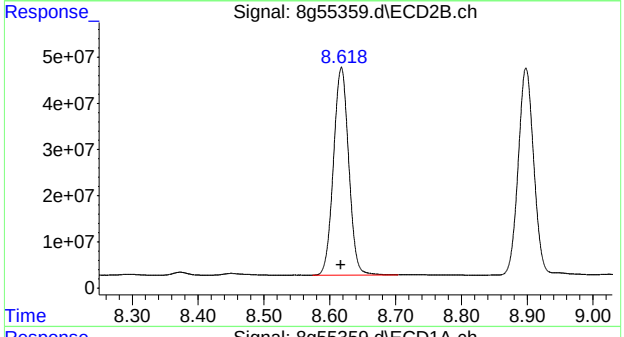
#10 alachlor

R.T.: 7.636 min
Delta R.T.: 0.000 min
Response: 114879751
Conc: 2.69 PPB



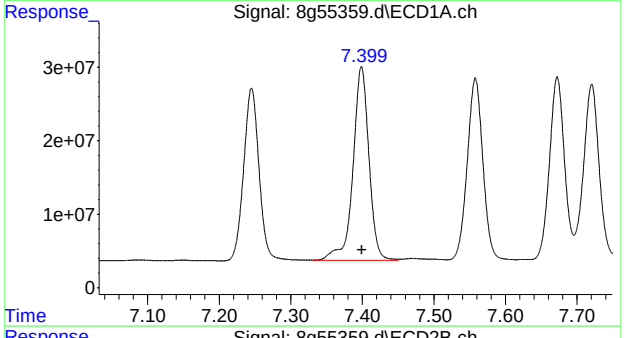
#11 Heptachlor Epoxide

R.T.: 7.245 min
Delta R.T.: 0.000 min
Response: 349198009
Conc: 2.50 PPB



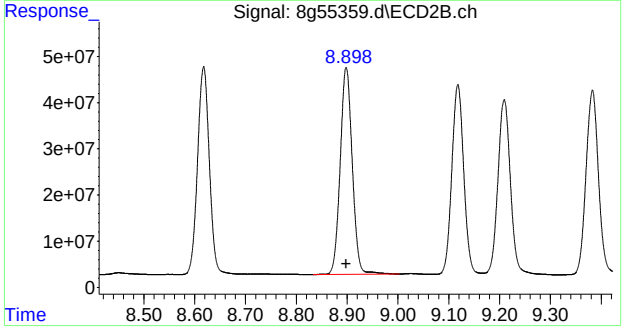
#11 Heptachlor Epoxide

R.T.: 8.618 min
Delta R.T.: 0.001 min
Response: 722264755
Conc: 2.59 PPB



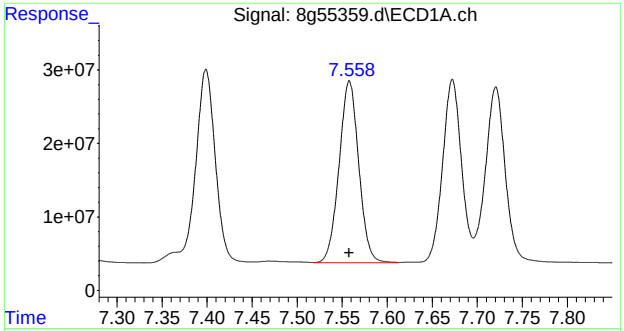
#12 gamma-Chlordane

R.T.: 7.399 min
Delta R.T.: 0.000 min
Response: 409176064
Conc: 2.65 PPB



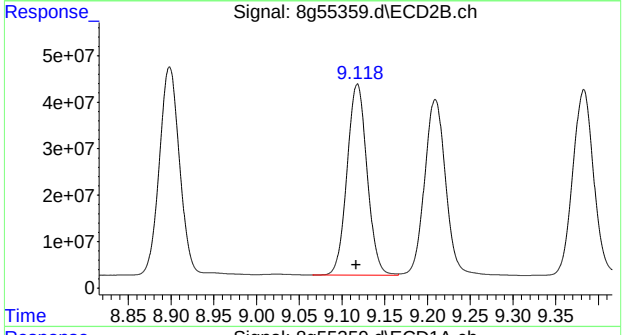
#12 gamma-Chlordane

R.T.: 8.898 min
Delta R.T.: 0.000 min
Response: 738061819
Conc: 2.71 PPB



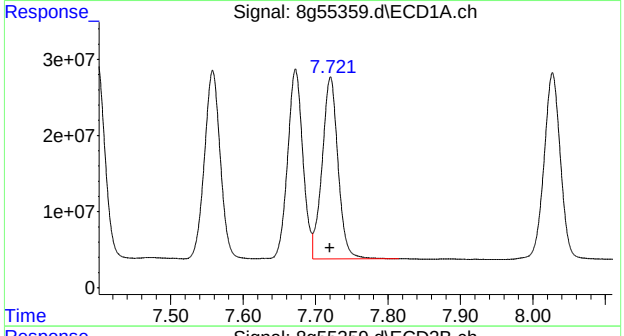
#13 alpha-Chlordane

R.T.: 7.558 min
Delta R.T.: 0.000 min
Response: 375827377
Conc: 2.53 PPB



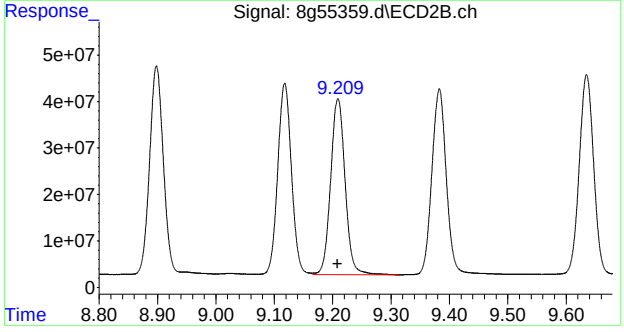
#13 alpha-Chlordane

R.T.: 9.118 min
Delta R.T.: 0.002 min
Response: 668736101
Conc: 2.54 PPB



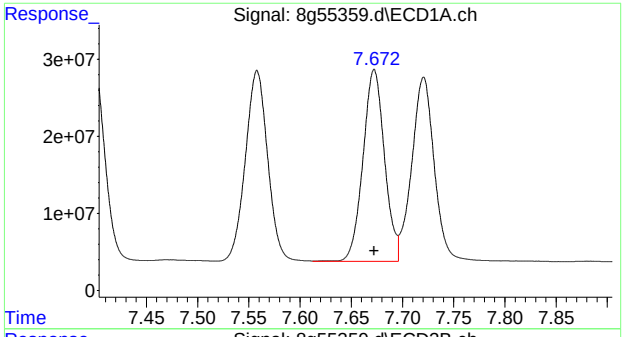
#14 Endosulfan I

R.T.: 7.721 min
Delta R.T.: 0.001 min
Response: 365549841
Conc: 2.68 PPB



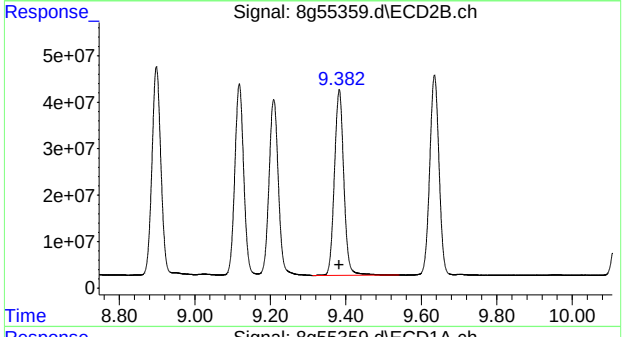
#14 Endosulfan I

R.T.: 9.209 min
Delta R.T.: 0.001 min
Response: 650726254
Conc: 2.49 PPB



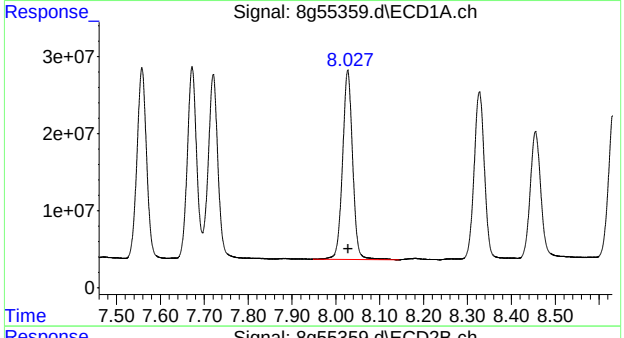
#15 4,4'-DDE

R.T.: 7.672 min
Delta R.T.: 0.000 min
Response: 363538461
Conc: 2.58 PPB



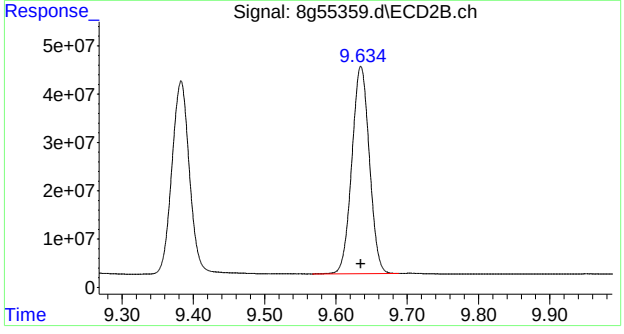
#15 4,4'-DDE

R.T.: 9.383 min
Delta R.T.: 0.001 min
Response: 689971110
Conc: 2.66 PPB



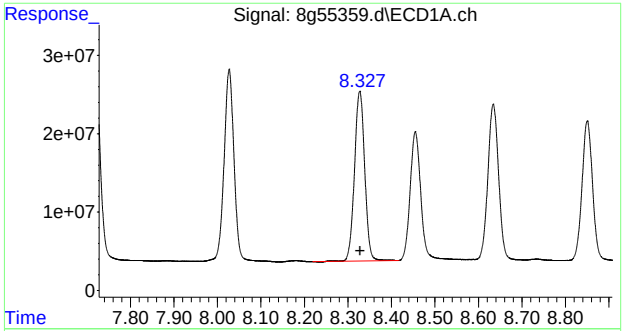
#16 Dieldrin

R.T.: 8.027 min
Delta R.T.: 0.000 min
Response: 390732653
Conc: 2.61 PPB



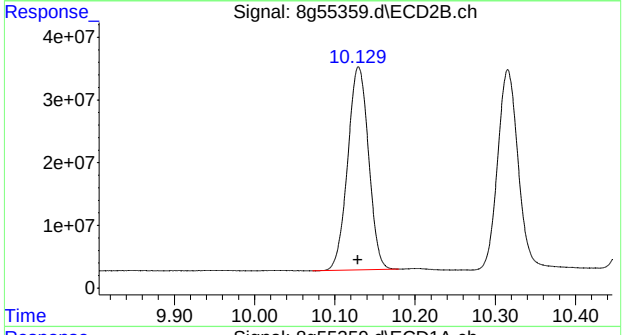
#16 Dieldrin

R.T.: 9.635 min
Delta R.T.: 0.000 min
Response: 731517702
Conc: 2.66 PPB



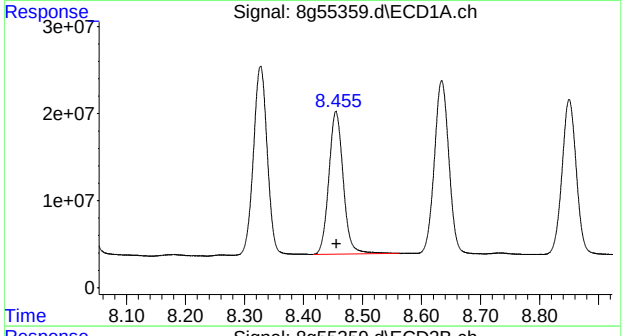
#17 Endrin

R.T.: 8.327 min
Delta R.T.: 0.000 min
Response: 352801016
Conc: 2.79 PPB



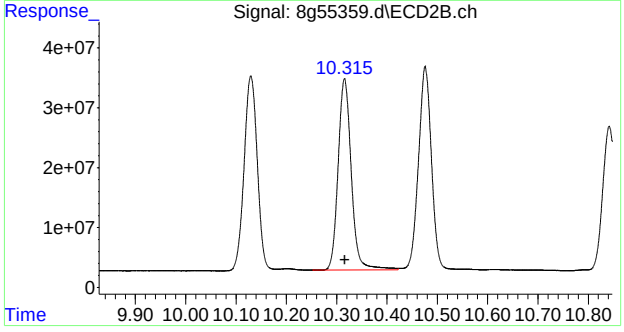
#17 Endrin

R.T.: 10.130 min
Delta R.T.: 0.001 min
Response: 584453426
Conc: 2.67 PPB



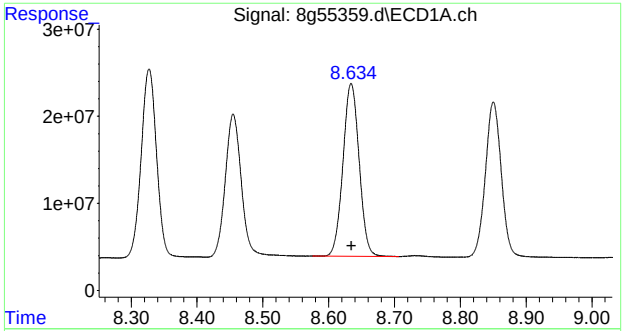
#18 4,4'-DDD

R.T.: 8.455 min
Delta R.T.: 0.000 min
Response: 277728960
Conc: 2.39 PPB



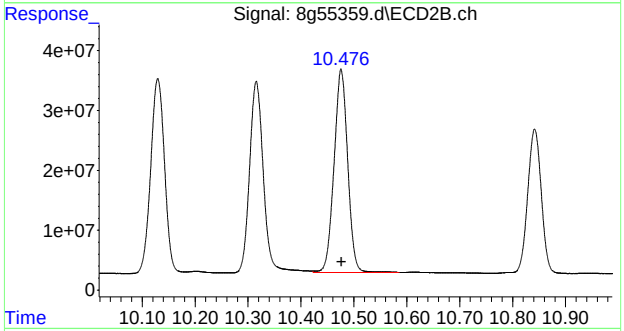
#18 4,4'-DDD

R.T.: 10.316 min
Delta R.T.: 0.000 min
Response: 581916471
Conc: 2.64 PPB



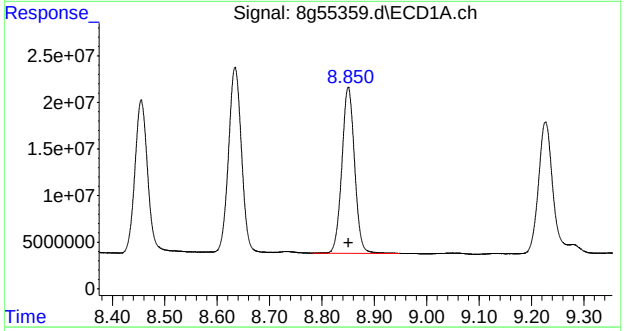
#19 Endosulfan II

R.T.: 8.634 min
Delta R.T.: 0.000 min
Response: 338368836
Conc: 2.54 PPB



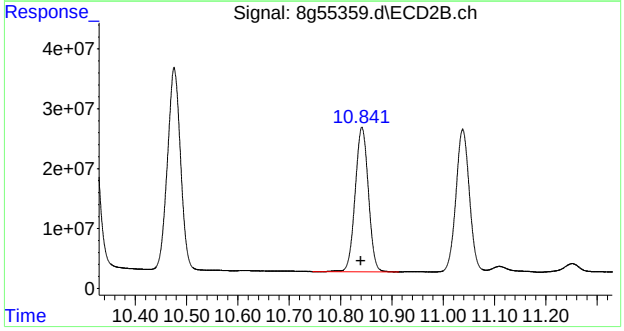
#19 Endosulfan II

R.T.: 10.476 min
Delta R.T.: 0.000 min
Response: 609889467
Conc: 2.64 PPB



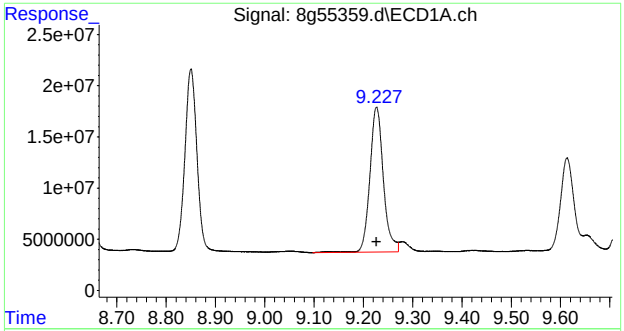
#20 4,4'-DDT

R.T.: 8.850 min
Delta R.T.: 0.000 min
Response: 299790154
Conc: 3.20 PPB



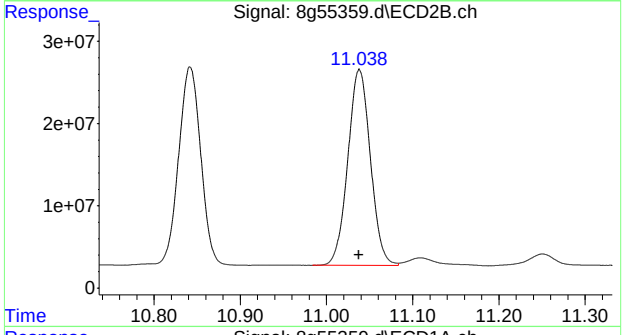
#20 4,4'-DDT

R.T.: 10.842 min
Delta R.T.: 0.002 min
Response: 430476756
Conc: 3.22 PPB



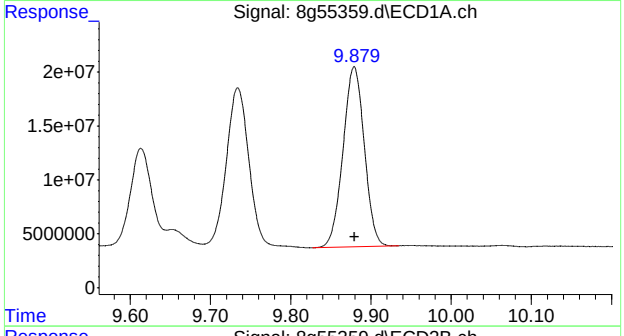
#21 Endrin Aldehyde

R.T.: 9.227 min
Delta R.T.: 0.000 min
Response: 268987178
Conc: 2.48 PPB



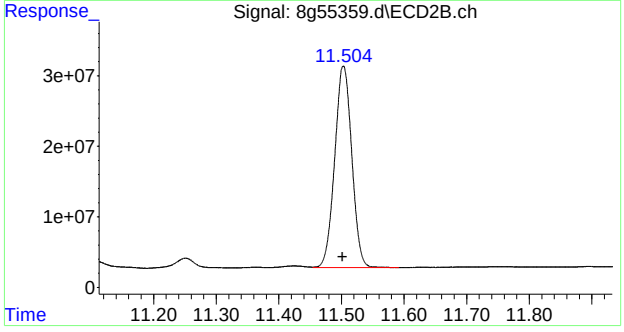
#21 Endrin Aldehyde

R.T.: 11.038 min
Delta R.T.: 0.000 min
Response: 434018574
Conc: 2.60 PPB



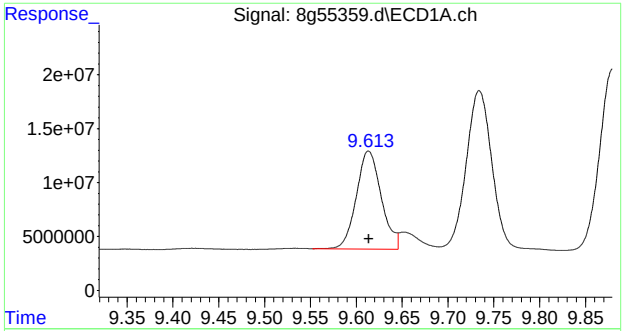
#22 Endosulfan Sulfate

R.T.: 9.879 min
Delta R.T.: 0.000 min
Response: 307997529
Conc: 2.52 PPB



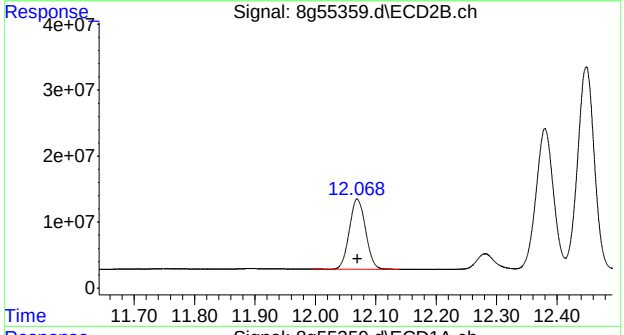
#22 Endosulfan Sulfate

R.T.: 11.503 min
Delta R.T.: 0.002 min
Response: 542241062
Conc: 2.68 PPB



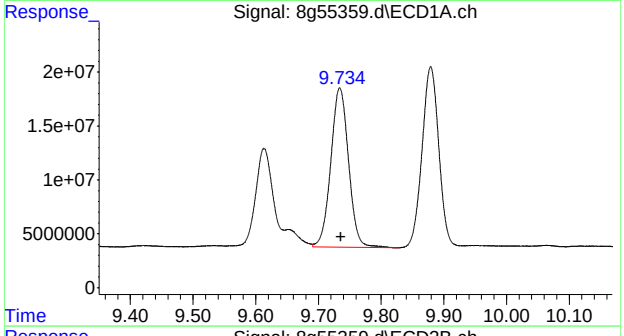
#23 Methoxychlor

R.T.: 9.613 min
Delta R.T.: 0.000 min
Response: 172081915
Conc: 2.75 PPB



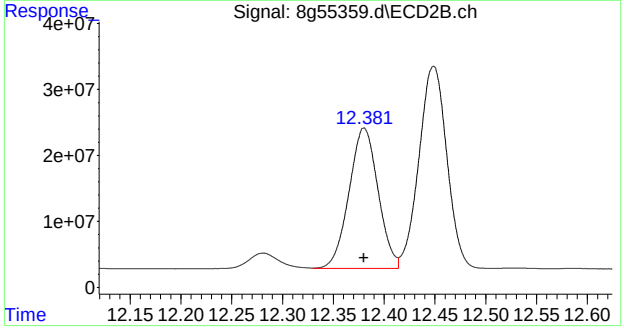
#23 Methoxychlor

R.T.: 12.069 min
Delta R.T.: 0.000 min
Response: 198117006
Conc: 2.65 PPB



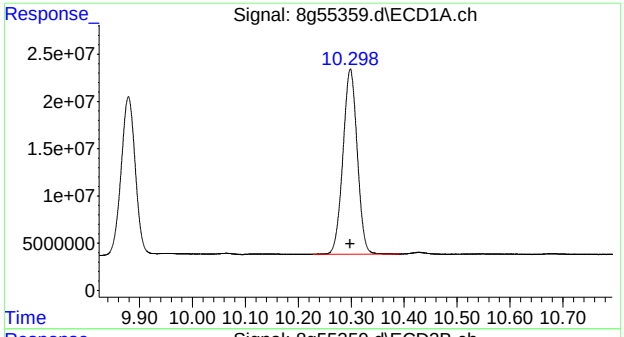
#24 Mirex

R.T.: 9.734 min
Delta R.T.: -0.002 min
Response: 290496212
Conc: 2.57 PPB



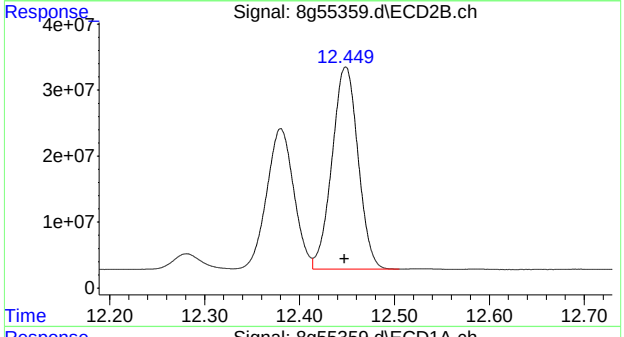
#24 Mirex

R.T.: 12.380 min
Delta R.T.: 0.000 min
Response: 423572929
Conc: 2.59 PPB



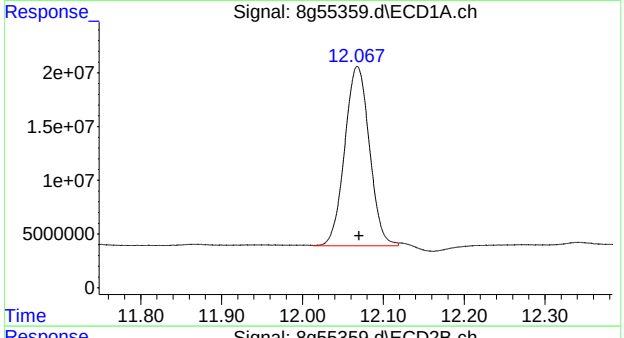
#25 Endrin Ketone

R.T.: 10.299 min
Delta R.T.: 0.000 min
Response: 367780463
Conc: 2.59 PPB



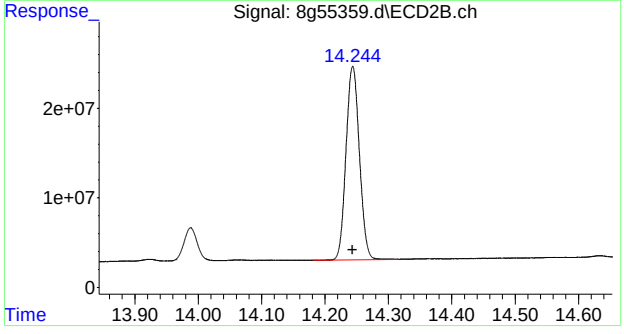
#25 Endrin Ketone

R.T.: 12.449 min
Delta R.T.: 0.001 min
Response: 585348244
Conc: 2.65 PPB



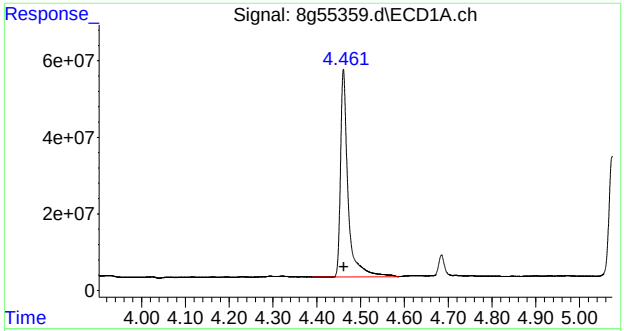
#26 Decachlorobiphenyl

R.T.: 12.067 min
Delta R.T.: -0.003 min
Response: 354387701
Conc: 2.58 PPB m



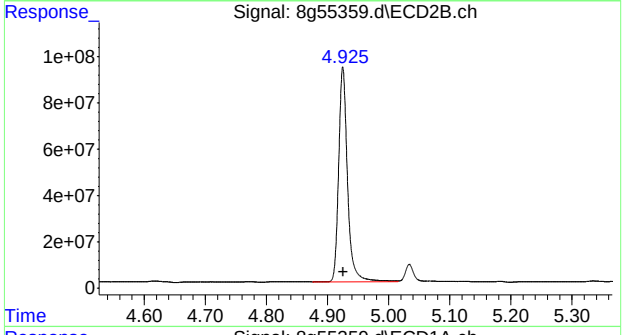
#26 Decachlorobiphenyl

R.T.: 14.244 min
Delta R.T.: 0.000 min
Response: 317057878
Conc: 2.51 PPB



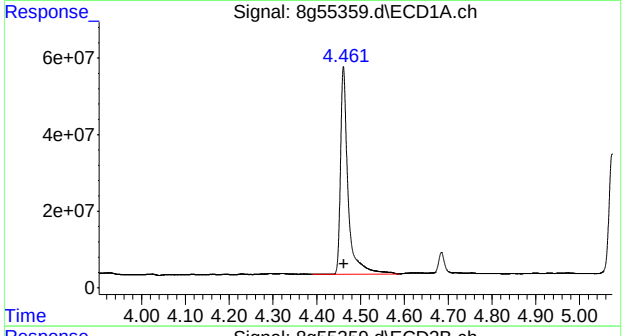
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.461 min
Delta R.T.: 0.000 min
Response: 645262413
Conc: 5.00 PPB



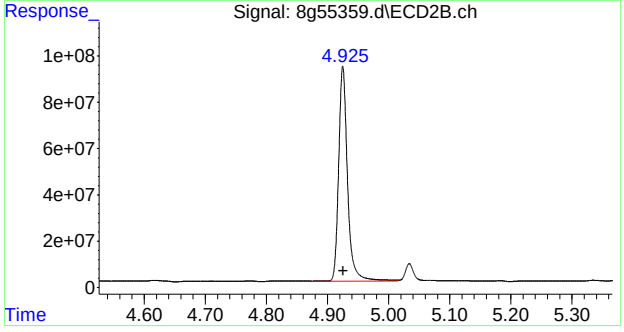
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.925 min
Delta R.T.: 0.000 min
Response: 935418264
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.461 min
Delta R.T.: 0.000 min
Response: 645262413
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.925 min
Delta R.T.: 0.000 min
Response: 935418264
Conc: 5.00 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Rebecca Krug
04/03/24 17:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G8G2430\
Data File : 8g55363.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Apr 2024 8:30 am
Operator : rebeccak
Sample : ic2430-50 (chlordane)
Misc : op53462,g8g2430,5.0,,,10,1
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 09:26:45 2024
Quant Method : C:\msdchem\1\METHODS\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Wed Apr 03 09:26:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1)	I 1-bromo-2...	4.462	4.925	734.4E6	1001.4E6	5.000	5.000
27)	I 1-bromo-2...	4.462	4.925	734.4E6	1001.4E6	5.000	5.000
33)	I 1-bromo-2...	4.462	4.925	734.4E6	1001.4E6	5.000	5.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	5.074	5.755	733.9E6	1392.8E6	4.838	4.898
	Spiked Amount 40.000	Range 30 - 150		Recovery =		12.10%#	12.24%#
26)	SA Decachlor...	12.070	14.243	755.6E6	702.3E6	4.840	5.201
	Spiked Amount 40.000			Recovery =		12.10%	13.00%
	Target Compounds						
34)	Chlordane...	6.270	7.376	493.5E6	895.1E6	47.249	51.501
35)	Chlordane...	6.719	8.010	329.2E6	549.4E6	50.400	55.525
36)	Chlordane...	7.403	8.900	1079.3E6	1848.0E6	48.752	52.973
37)	Chlordane...	7.554	9.120	1692.0E6	3022.8E6	49.451m	53.579m
38)	Chlordane...	8.544	10.557	241.4E6	416.8E6	50.390	56.359
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.3.11

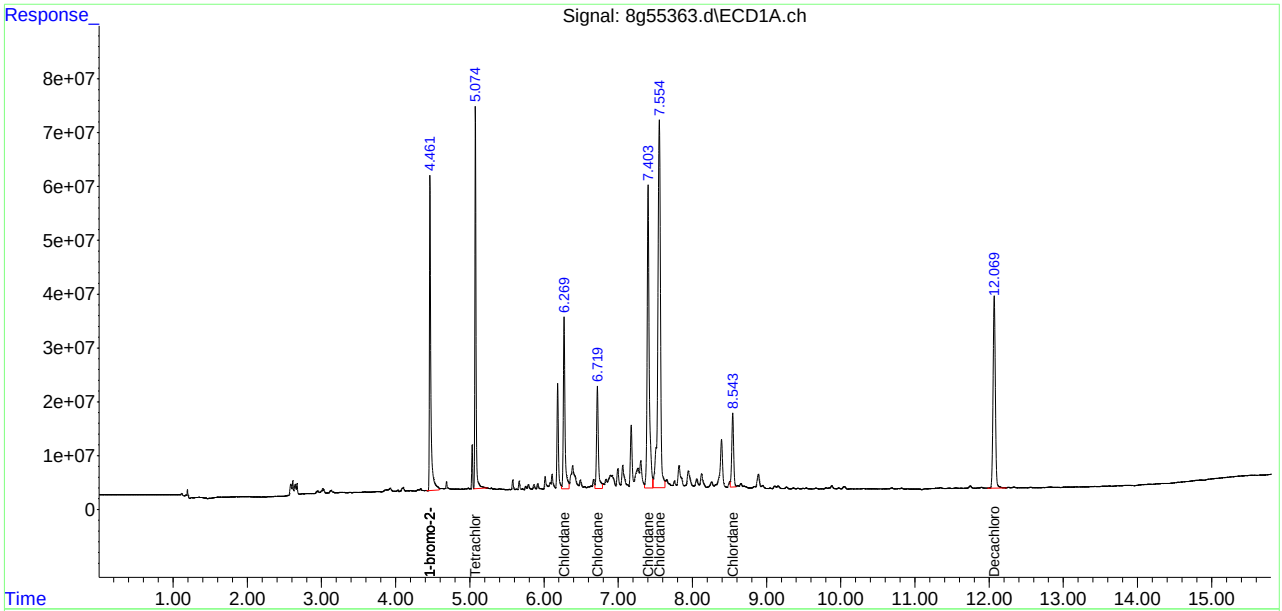
11

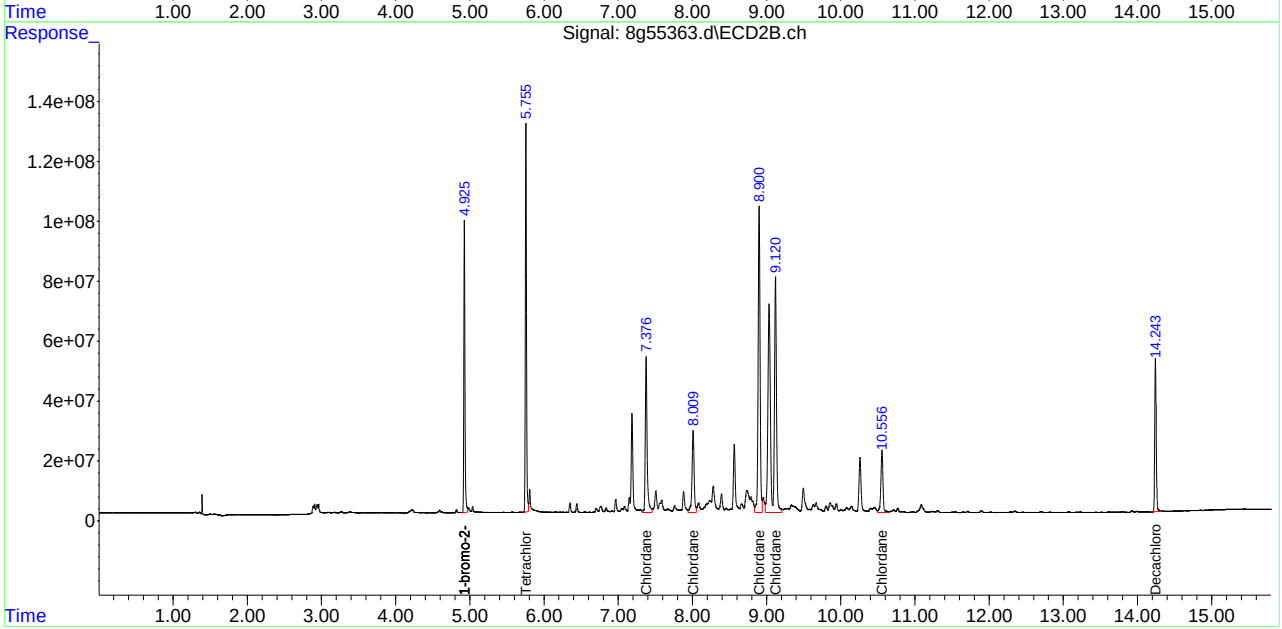
Quantitation Report (QT Reviewed)

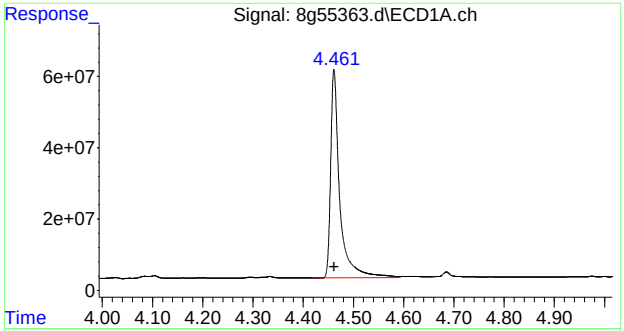
Data Path : C:\msdchem\1\DATA\G8G2430\
Data File : 8g55363.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Apr 2024 8:30 am
Operator : rebeccak
Sample : ic2430-50 (chlordane)
Misc : op53462,g8g2430,5.0,,,10,1
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 09:26:45 2024
Quant Method : C:\msdchem\1\METHODS\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Wed Apr 03 09:26:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

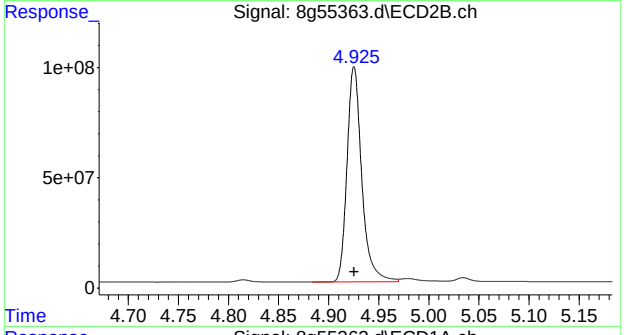






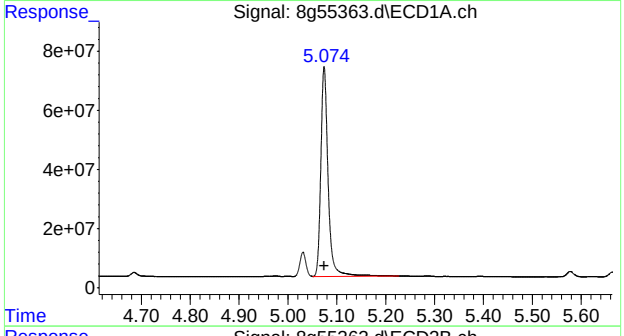
#1 1-bromo-2-nitrobenzene

R.T.: 4.462 min
Delta R.T.: 0.000 min
Response: 734416683
Conc: 5.00 PPB



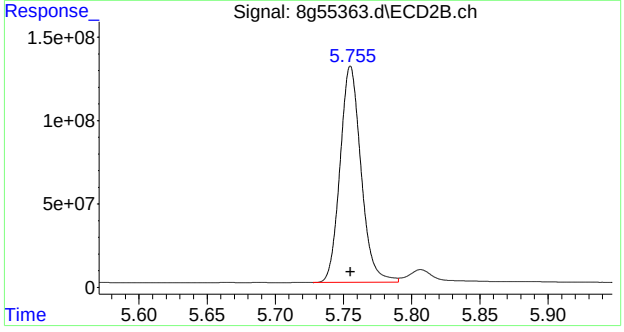
#1 1-bromo-2-nitrobenzene

R.T.: 4.925 min
Delta R.T.: 0.000 min
Response: 1001437108
Conc: 5.00 PPB



#2 Tetrachloro-m-xylene

R.T.: 5.074 min
Delta R.T.: 0.000 min
Response: 733939425
Conc: 4.84 PPB

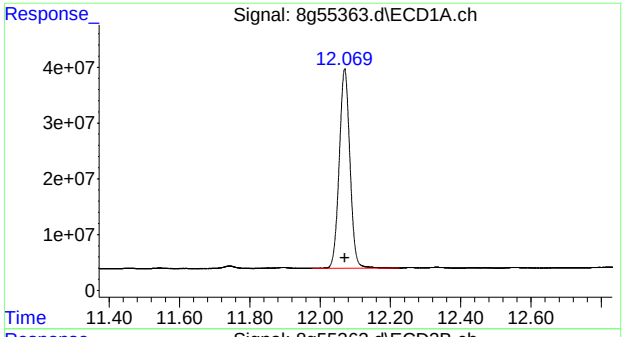


#2 Tetrachloro-m-xylene

R.T.: 5.755 min
Delta R.T.: 0.000 min
Response: 1392849093
Conc: 4.90 PPB

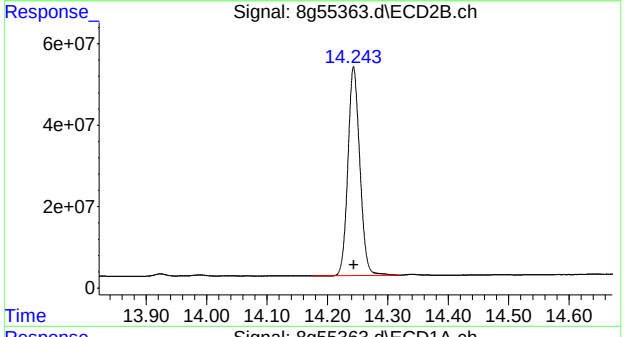
11.3.11

11



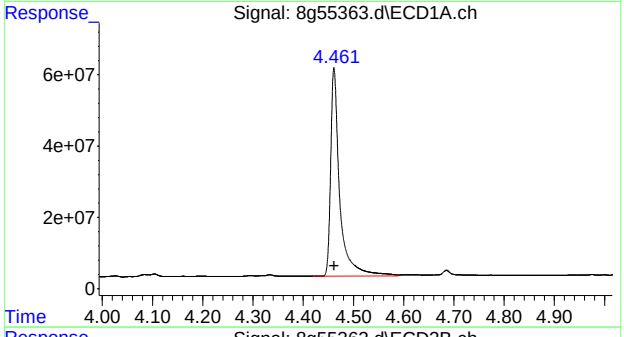
#26 Decachlorobiphenyl

R.T.: 12.070 min
Delta R.T.: 0.000 min
Response: 755568988
Conc: 4.84 PPB



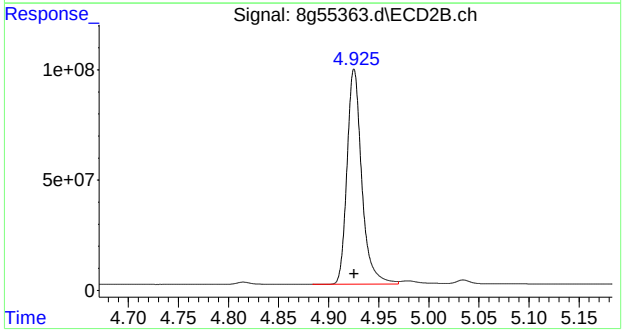
#26 Decachlorobiphenyl

R.T.: 14.243 min
Delta R.T.: 0.000 min
Response: 702282197
Conc: 5.20 PPB



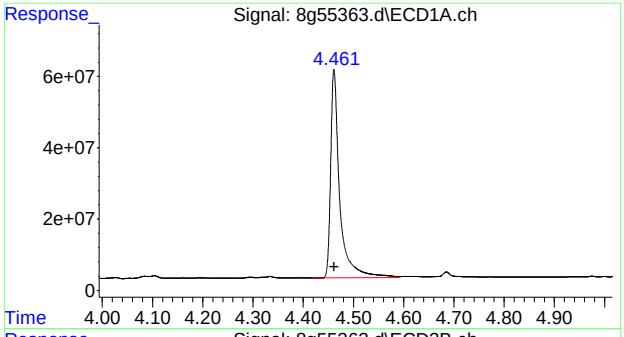
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.462 min
Delta R.T.: 0.000 min
Response: 734416683
Conc: 5.00 PPB



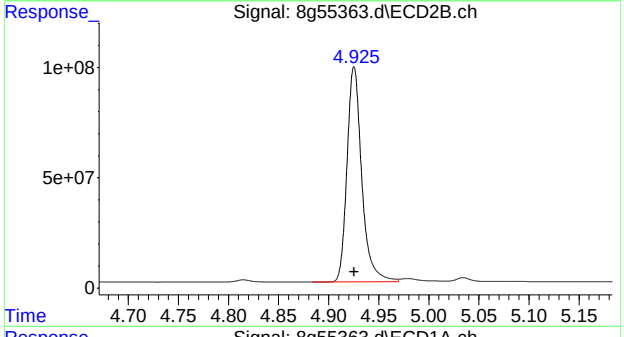
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.925 min
Delta R.T.: 0.000 min
Response: 1001437108
Conc: 5.00 PPB



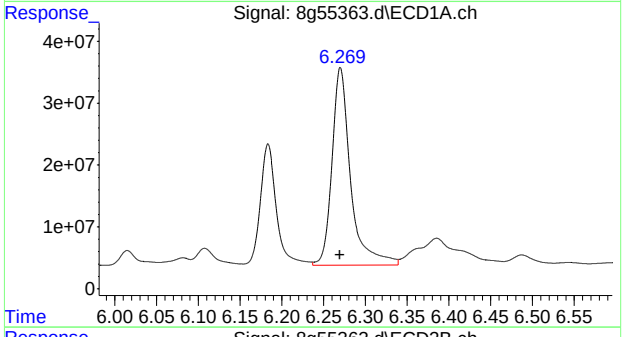
#33 1-bromo-2-nitrobenzeneB

R.T.: 4.462 min
Delta R.T.: 0.000 min
Response: 734416683
Conc: 5.00 PPB



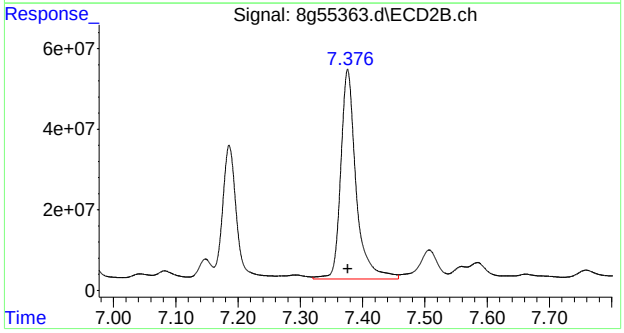
#33 1-bromo-2-nitrobenzeneB

R.T.: 4.925 min
Delta R.T.: 0.000 min
Response: 1001437108
Conc: 5.00 PPB



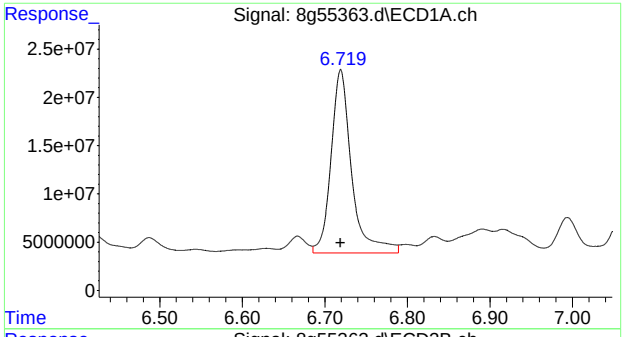
#34 Chlordane {A}

R.T.: 6.270 min
Delta R.T.: 0.000 min
Response: 493475577
Conc: 47.25 PPB



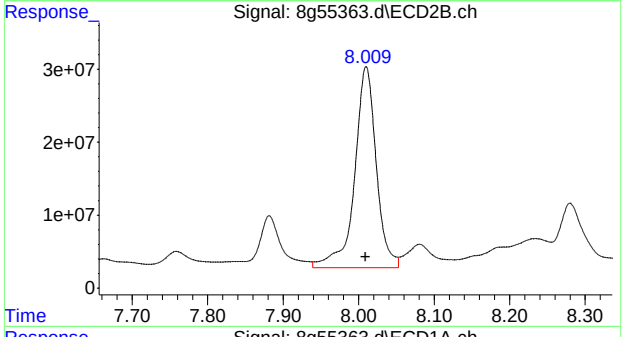
#34 Chlordane {A}

R.T.: 7.376 min
Delta R.T.: 0.000 min
Response: 895100679
Conc: 51.50 PPB



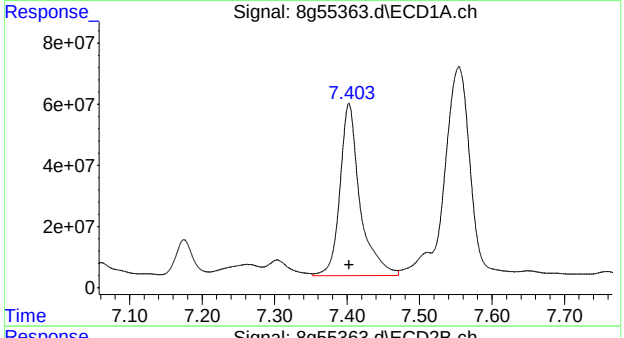
#35 Chlordane {B}

R.T.: 6.719 min
Delta R.T.: 0.000 min
Response: 329216660
Conc: 50.40 PPB



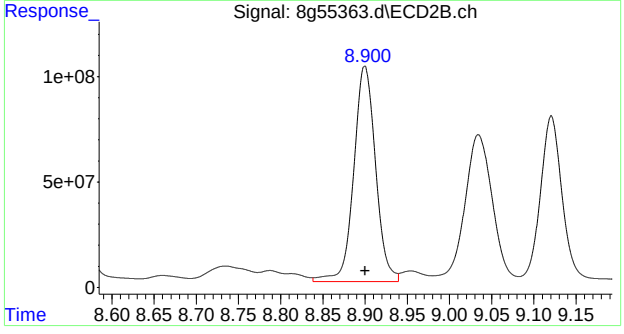
#35 Chlordane {B}

R.T.: 8.010 min
Delta R.T.: 0.000 min
Response: 549392410
Conc: 55.52 PPB



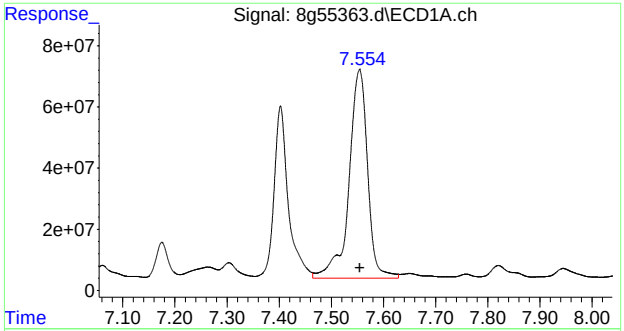
#36 Chlordane {C}

R.T.: 7.403 min
Delta R.T.: 0.000 min
Response: 1079331238
Conc: 48.75 PPB



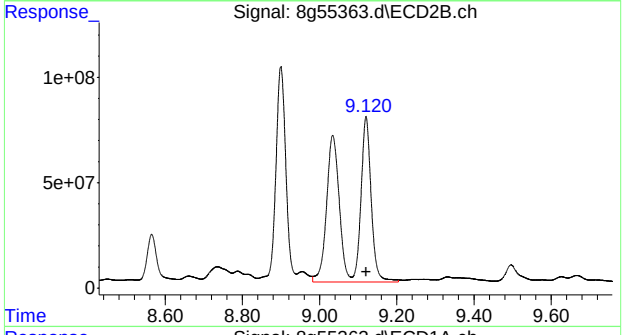
#36 Chlordane {C}

R.T.: 8.900 min
Delta R.T.: 0.000 min
Response: 1848001930
Conc: 52.97 PPB



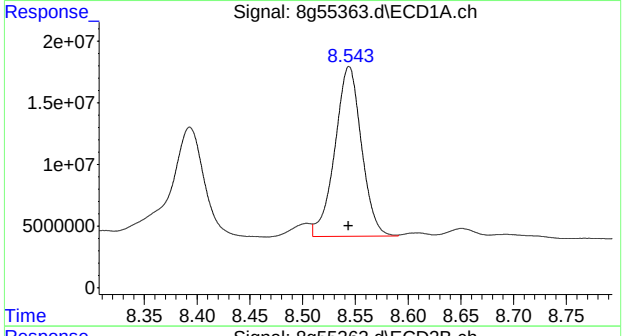
#37 Chlordane {D}

R.T.: 7.554 min
Delta R.T.: 0.000 min
Response: 1691985310
Conc: 49.45 PPB m



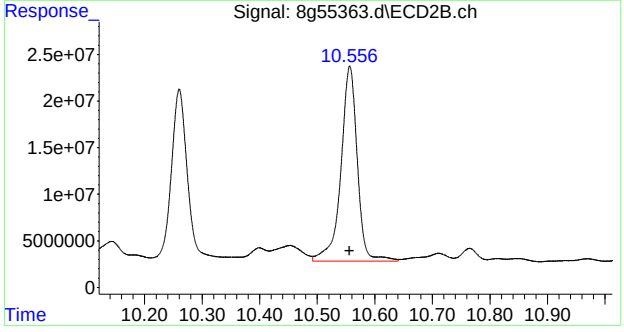
#37 Chlordane {D}

R.T.: 9.120 min
Delta R.T.: 0.000 min
Response: 3022776776
Conc: 53.58 PPB m



#38 Chlordane {E}

R.T.: 8.544 min
Delta R.T.: 0.000 min
Response: 241353732
Conc: 50.39 PPB



#38 Chlordane {E}

R.T.: 10.557 min
Delta R.T.: 0.001 min
Response: 416759003
Conc: 56.36 PPB

Manual Integrations APPROVED
(compounds with "m" flag)
Rebecca Krug
04/03/24 17:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\G8G2430\
Data File : 8g55364.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Apr 2024 8:52 am
Operator : rebeccak
Sample : ic2430-50 (toxaphene)
Misc : op53462,g8g2430,5.0,,,10,1
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 10:34:07 2024
Quant Method : C:\msdchem\1\METHODS\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Wed Apr 03 10:21:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	4.462	4.925	702.2E6	983.2E6	5.000	5.000
27) I	1-bromo-2...	4.462	4.925	702.2E6	983.2E6	5.000	5.000
33) I	1-bromo-2...	4.462	4.925	702.2E6	983.2E6	5.000	5.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	5.074	5.755	650.4E6	1331.2E6	4.444	4.601
	Spiked Amount 40.000	Range 30 - 150		Recovery =		11.11%#	11.50%#
26) SA	Decachlor...	12.070	14.245	692.3E6	633.1E6	4.384	4.621
	Spiked Amount 40.000			Recovery =		10.96%	11.55%
	Target Compounds						
28) L8	Toxaphene{A}	7.528	9.780	42085498	83609147	95.956m	94.215m
29) L8	Toxaphene{B}	8.149	10.611	73526040	312.1E6	33.959	290.515m#
30) L8	Toxaphene{C}	9.112	10.742	80193993	83315164	59.246m	59.297m
31) L8	Toxaphene{D}	9.424	11.044	84049338	230.1E6	75.559m	79.118m
32) L8	Toxaphene{E}	9.726	11.935	180.1E6	244.3E6	51.020m	80.845m#
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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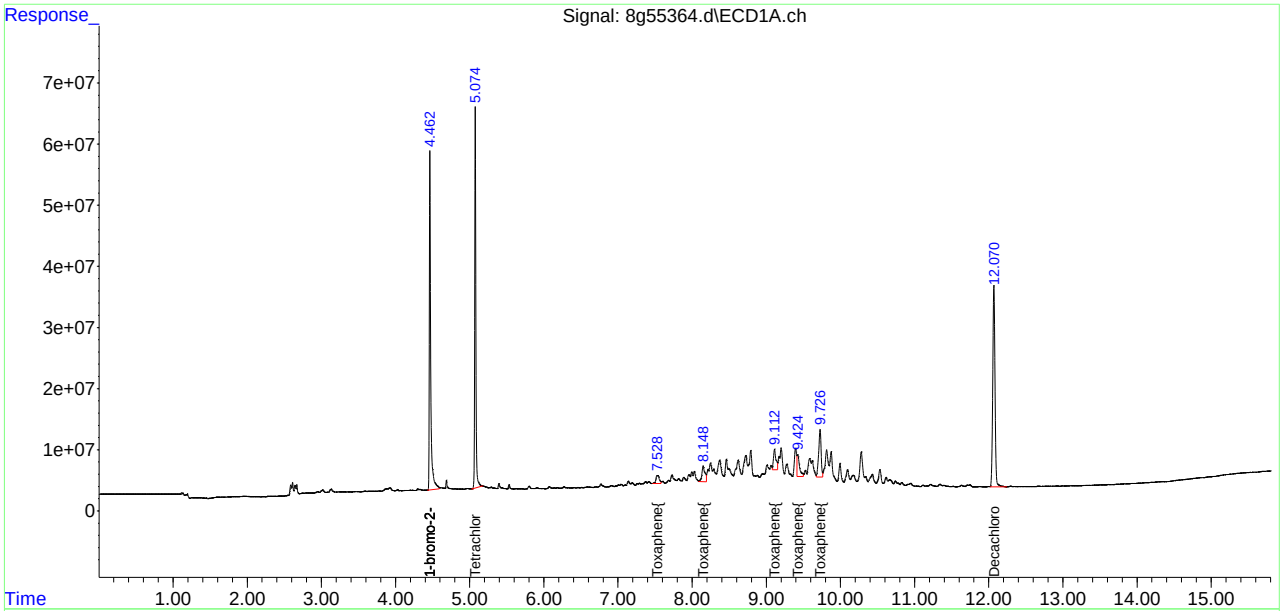
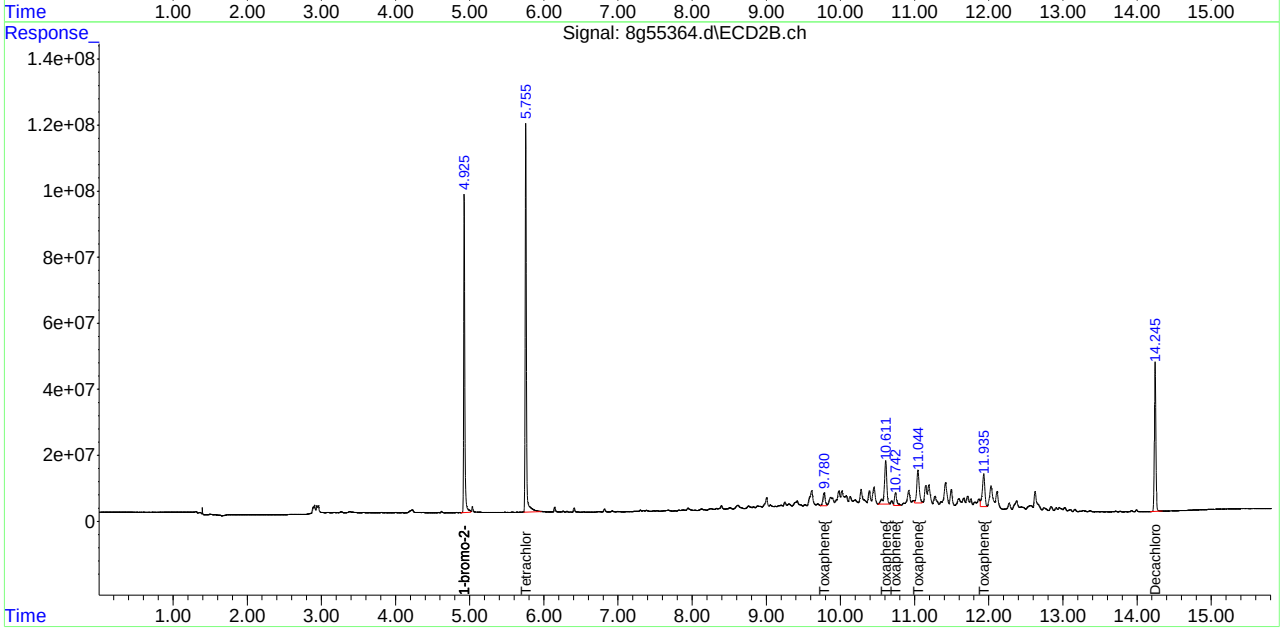
Quantitation Report (QT Reviewed)

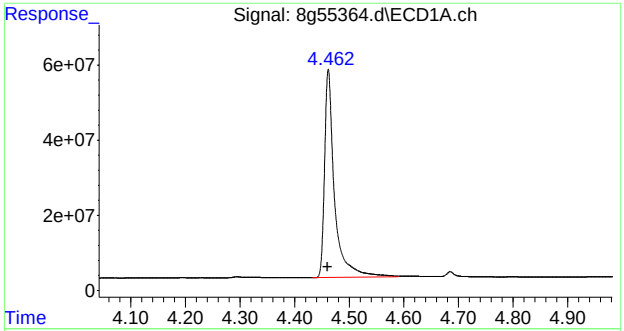
Data Path : C:\msdchem\1\DATA\G8G2430\
Data File : 8g55364.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Apr 2024 8:52 am
Operator : rebeccak
Sample : ic2430-50 (toxaphene)
Misc : op53462,g8g2430,5.0,,,10,1
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 03 10:34:07 2024
Quant Method : C:\msdchem\1\METHODS\8PSTLVI2430a.M
Quant Title : PEST/PCB
QLast Update : Wed Apr 03 10:21:12 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

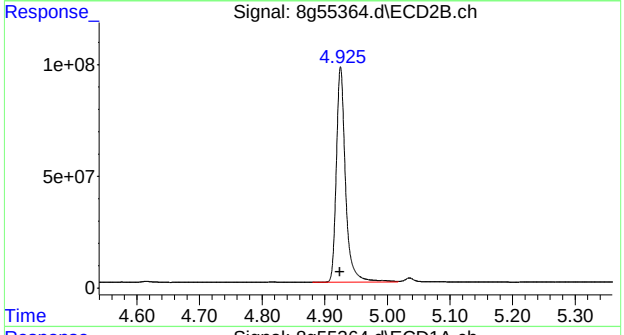






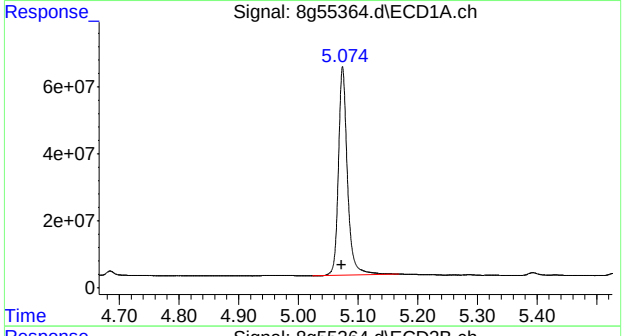
#1 1-bromo-2-nitrobenzene

R.T.: 4.462 min
Delta R.T.: 0.002 min
Response: 702235089
Conc: 5.00 PPB



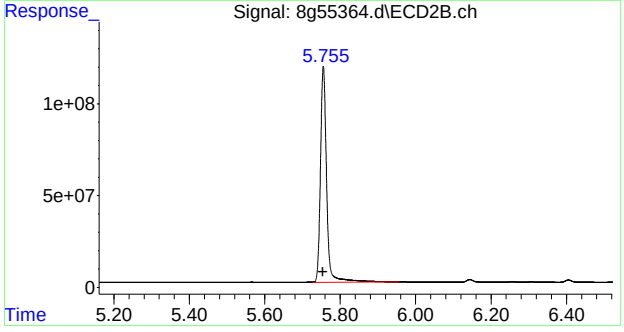
#1 1-bromo-2-nitrobenzene

R.T.: 4.925 min
Delta R.T.: 0.001 min
Response: 983174882
Conc: 5.00 PPB



#2 Tetrachloro-m-xylene

R.T.: 5.074 min
Delta R.T.: 0.002 min
Response: 650398419
Conc: 4.44 PPB



#2 Tetrachloro-m-xylene

R.T.: 5.755 min
Delta R.T.: 0.001 min
Response: 1331238973
Conc: 4.60 PPB

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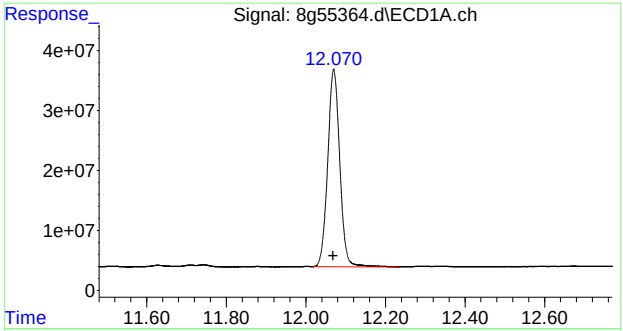
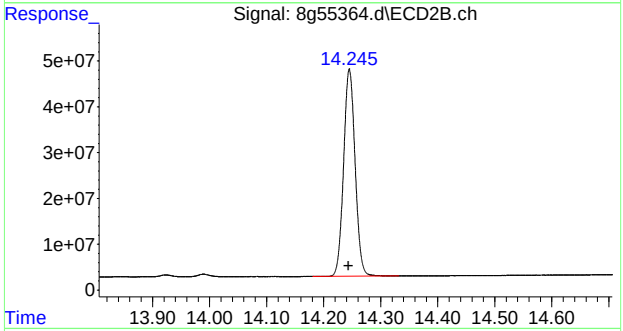


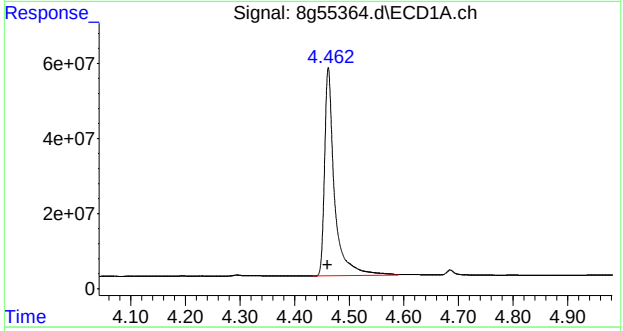
#26 Decachlorobiphenyl

R.T.: 12.070 min
Delta R.T.: 0.002 min
Response: 692283692
Conc: 4.38 PPB



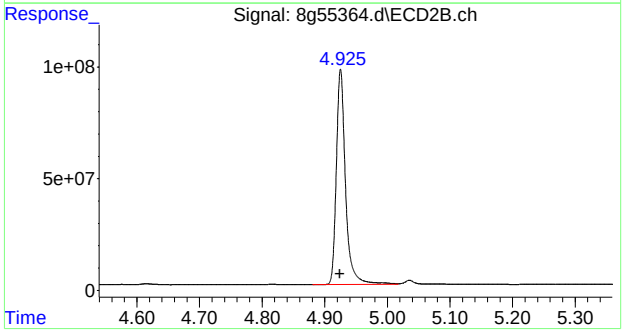
#26 Decachlorobiphenyl

R.T.: 14.245 min
Delta R.T.: 0.002 min
Response: 633138882
Conc: 4.62 PPB



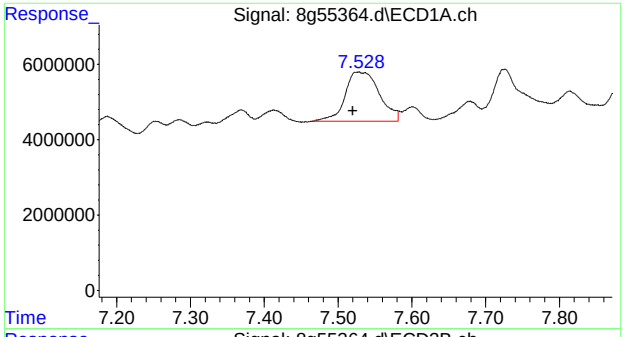
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.462 min
Delta R.T.: 0.002 min
Response: 702235089
Conc: 5.00 PPB



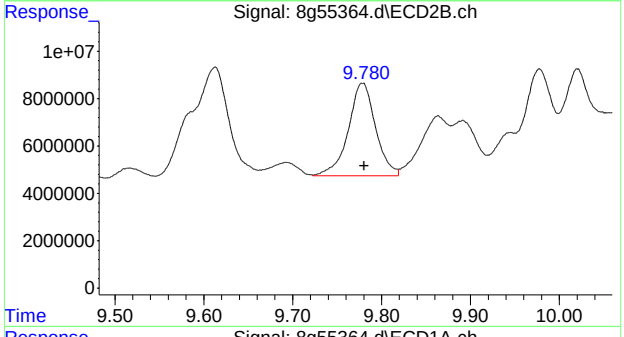
#27 1-bromo-2-nitrobenzeneA

R.T.: 4.925 min
Delta R.T.: 0.001 min
Response: 983174882
Conc: 5.00 PPB



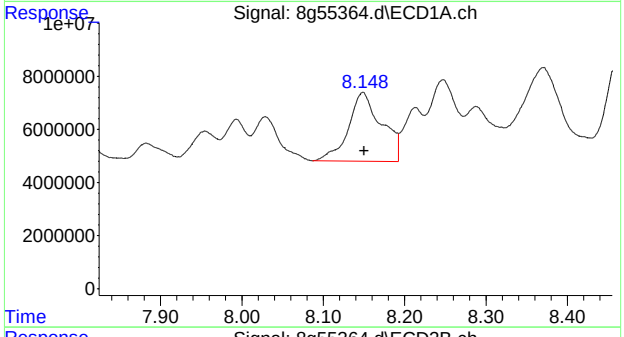
#28 Toxaphene{A}

R.T.: 7.528 min
Delta R.T.: 0.008 min
Response: 42085498
Conc: 95.96 PPB m



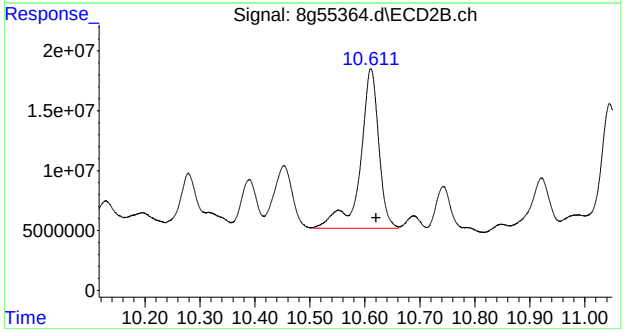
#28 Toxaphene{A}

R.T.: 9.780 min
Delta R.T.: 0.000 min
Response: 83609147
Conc: 94.21 PPB m



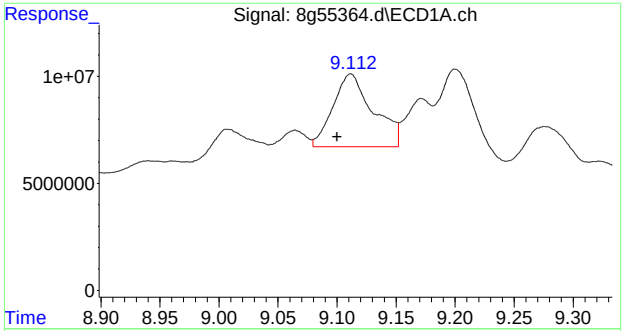
#29 Toxaphene{B}

R.T.: 8.149 min
Delta R.T.: -0.001 min
Response: 73526040
Conc: 33.96 PPB



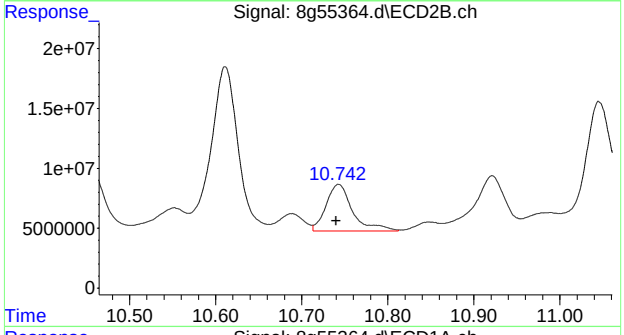
#29 Toxaphene{B}

R.T.: 10.611 min
Delta R.T.: -0.009 min
Response: 312065913
Conc: 290.52 PPB m



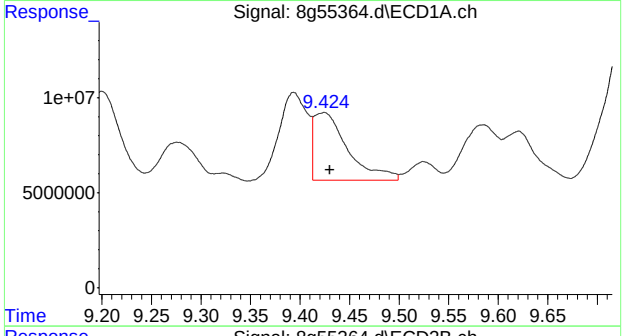
#30 Toxaphene{C}

R.T.: 9.112 min
Delta R.T.: 0.012 min
Response: 80193993
Conc: 59.25 PPB m



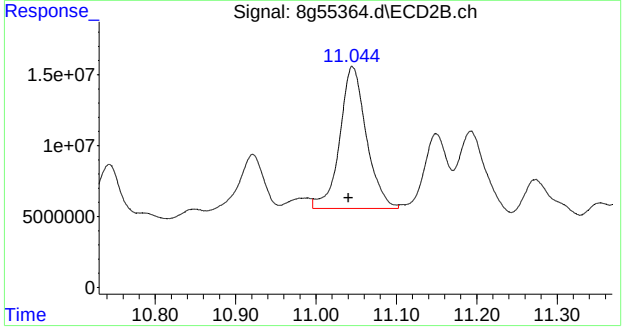
#30 Toxaphene{C}

R.T.: 10.742 min
Delta R.T.: 0.002 min
Response: 83315164
Conc: 59.30 PPB m



#31 Toxaphene{D}

R.T.: 9.424 min
Delta R.T.: -0.006 min
Response: 84049338
Conc: 75.56 PPB m



#31 Toxaphene{D}

R.T.: 11.044 min
Delta R.T.: 0.004 min
Response: 230063056
Conc: 79.12 PPB m

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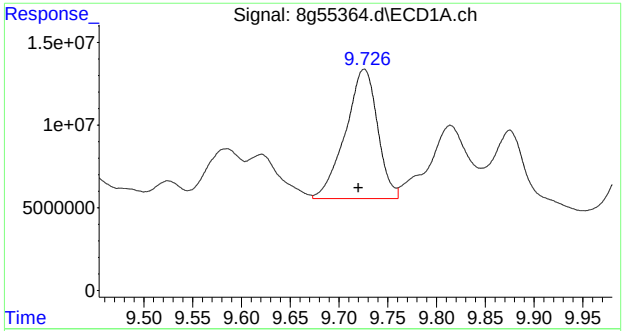
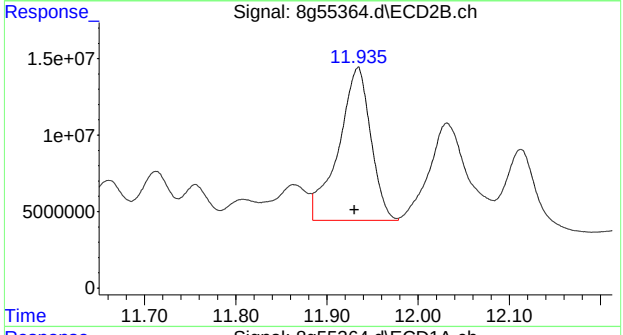


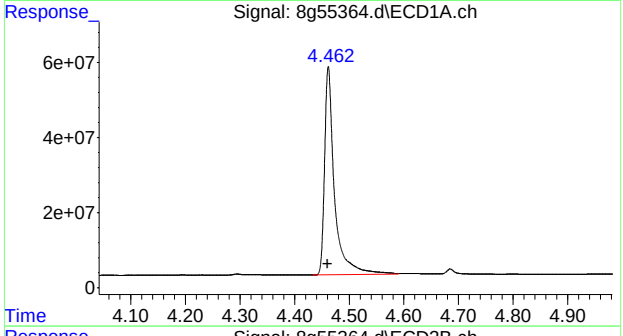
#32 Toxaphene{E}

R.T.: 9.726 min
Delta R.T.: 0.006 min
Response: 180091894
Conc: 51.02 PPB m



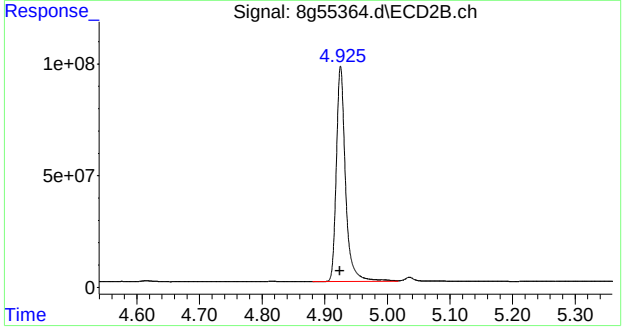
#32 Toxaphene{E}

R.T.: 11.935 min
Delta R.T.: 0.005 min
Response: 244293906
Conc: 80.84 PPB m



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.462 min
Delta R.T.: 0.002 min
Response: 702235089
Conc: 5.00 PPB



#33 1-bromo-2-nitrobenzeneB

R.T.: 4.925 min
Delta R.T.: 0.001 min
Response: 983174882
Conc: 5.00 PPB

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Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/25/24 12:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140974.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 16:19 pm
Operator : mahalial
Sample : ic5160-1000 (1016/1260)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 05:44:20 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 05:42:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.465	4.077	329.4E6	765.7E6	56.039	91.118 #
	Spiked Amount 40.000			Recovery	= 140.10%	227.79%	
51) S	Decachlor...	10.970	12.591	294.6E6	666.3E6	69.003	91.566 #
	Spiked Amount 40.000			Recovery	= 172.51%	228.92%	
	Target Compounds						
41)	AR1016-A	3.882	4.756	129.1E6	300.7E6	1352.527	2250.327 #
42)	AR1016-B	4.324	5.325	253.2E6	599.4E6	1414.031	2220.906 #
43)	AR1016-C	4.926	5.979	538.4E6	1360.5E6	1327.140m	2191.331m#
44)	AR1016-D	5.098	6.170	227.2E6	532.8E6	1367.129	2260.310 #
45)	AR1016-E	5.639	6.841	248.0E6	427.6E6	1954.211m	2286.670
46)	AR1260-A	7.692	8.934	478.4E6	990.4E6	1372.738	2331.124 #
47)	AR1260-B	8.241	9.586	298.0E6	815.1E6	1421.296	2323.031 #
48)	AR1260-C	8.585	10.023	328.3E6	844.6E6	1383.027	2305.066 #
49)	AR1260-D	9.022	10.367	794.9E6	2042.1E6	1530.805m	2290.926 #
50)	AR1260-E	9.423	10.915	792.8E6	1978.9E6	1389.859m	2205.836m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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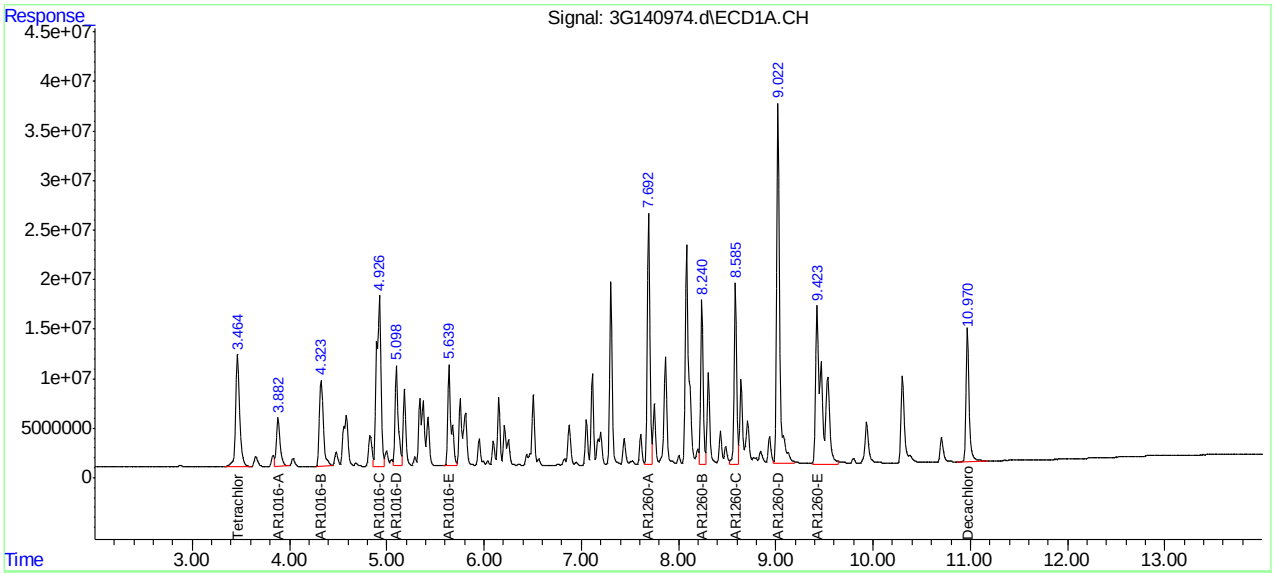
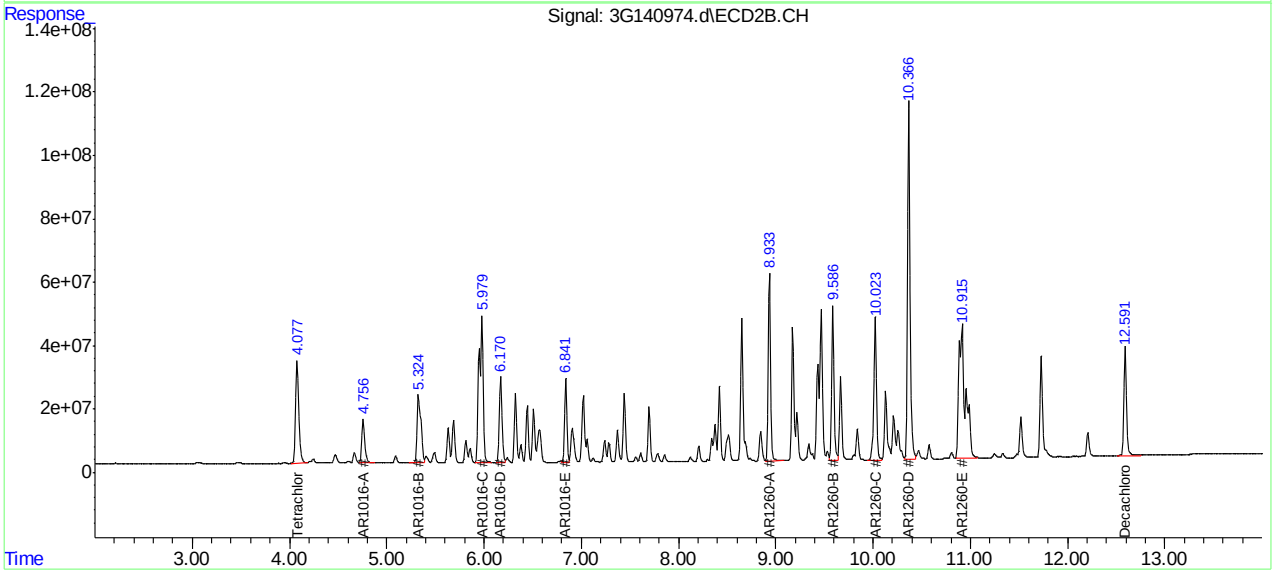
Quantitation Report (QT Reviewed)

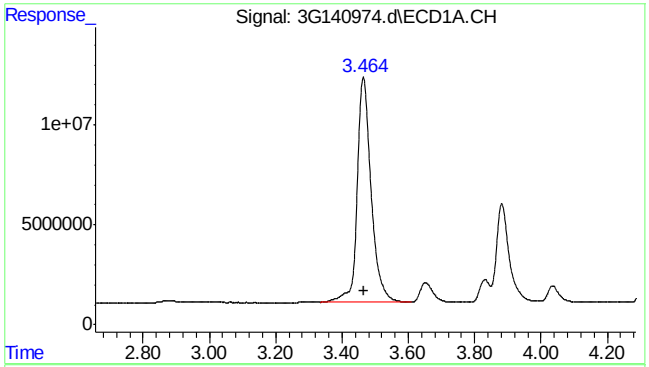
Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140974.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 16:19 pm
Operator : mahalial
Sample : ic5160-1000 (1016/1260)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 05:44:20 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 05:42:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

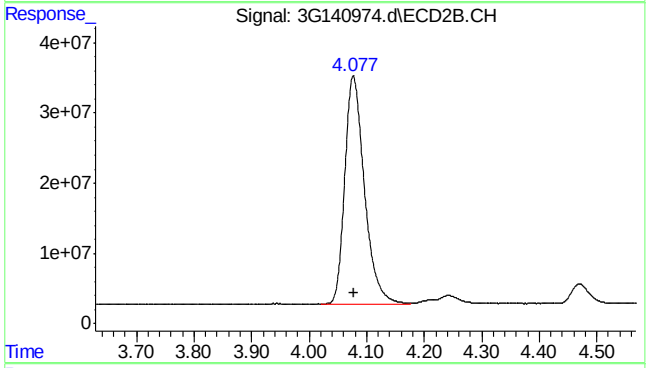






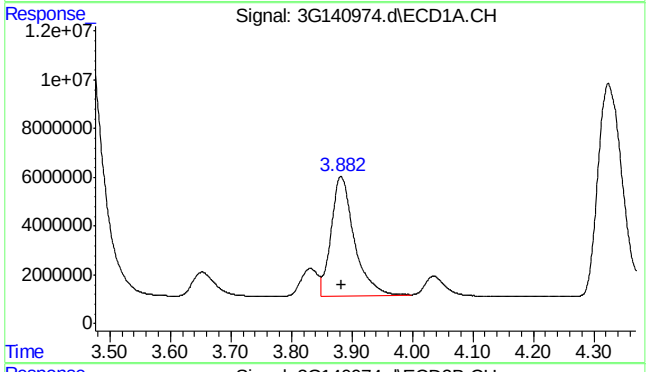
#1 Tetrachloro-m-xylene

R.T.: 3.465 min
Delta R.T.: 0.000 min
Response: 329353673
Conc: 56.04 ppb



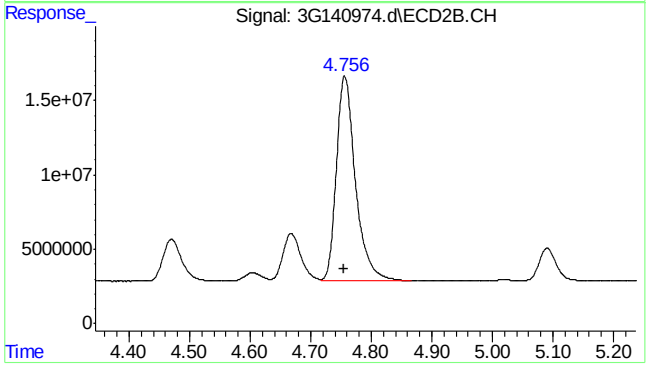
#1 Tetrachloro-m-xylene

R.T.: 4.077 min
Delta R.T.: 0.000 min
Response: 765748136
Conc: 91.12 ppb



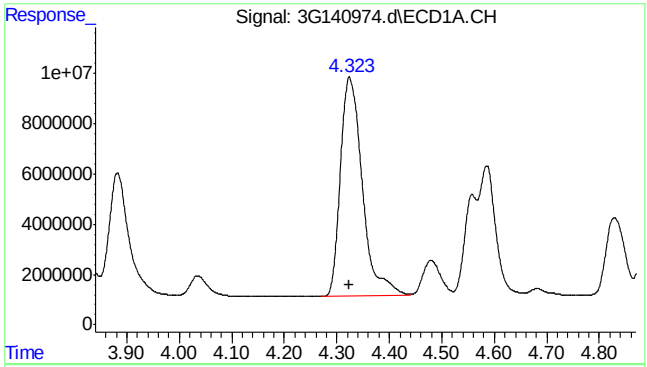
#41 AR1016-A

R.T.: 3.882 min
Delta R.T.: 0.000 min
Response: 129098377
Conc: 1352.53 PPB



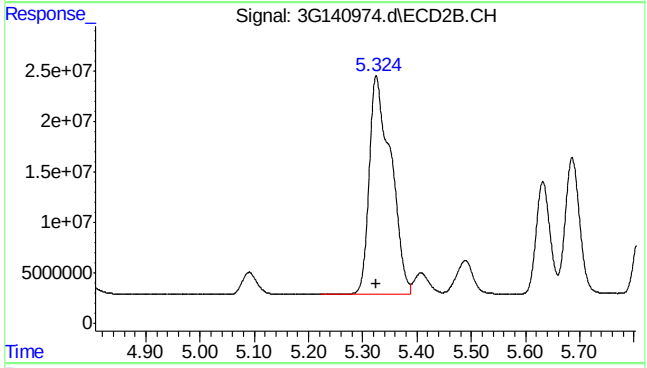
#41 AR1016-A

R.T.: 4.756 min
Delta R.T.: 0.000 min
Response: 300669223
Conc: 2250.33 PPB



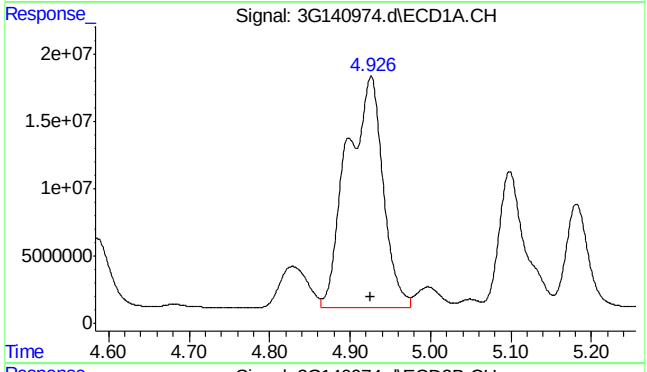
#42 AR1016-B

R.T.: 4.324 min
Delta R.T.: 0.000 min
Response: 253173155
Conc: 1414.03 PPB



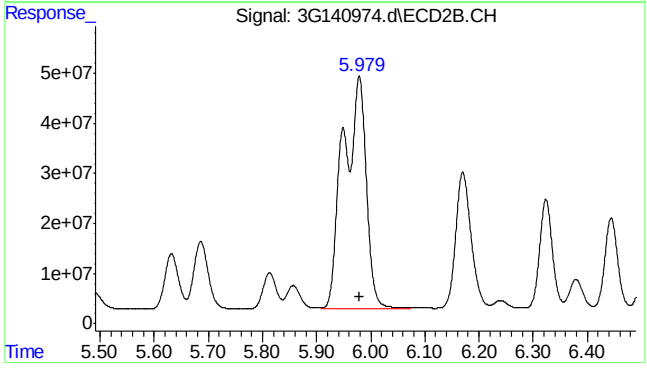
#42 AR1016-B

R.T.: 5.325 min
Delta R.T.: 0.000 min
Response: 599424345
Conc: 2220.91 PPB



#43 AR1016-C

R.T.: 4.926 min
Delta R.T.: 0.000 min
Response: 538446571
Conc: 1327.14 PPB m



#43 AR1016-C

R.T.: 5.979 min
Delta R.T.: 0.000 min
Response: 1360464593
Conc: 2191.33 PPB m

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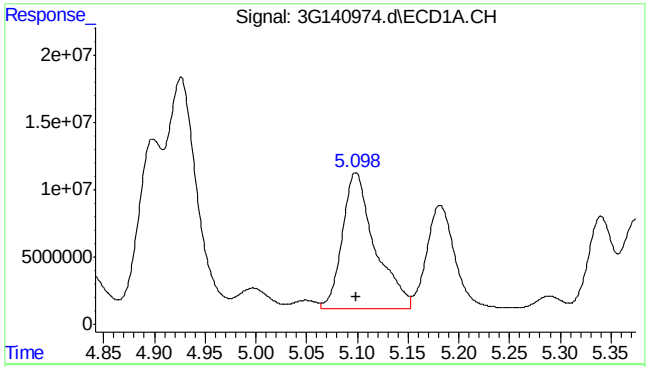
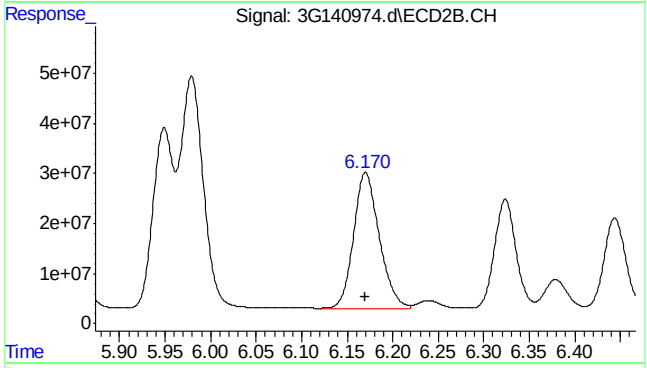


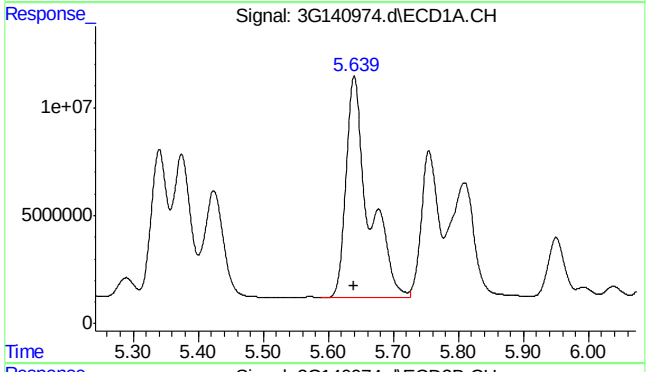
#44 AR1016-D

R.T.: 5.098 min
Delta R.T.: 0.000 min
Response: 227192155
Conc: 1367.13 PPB



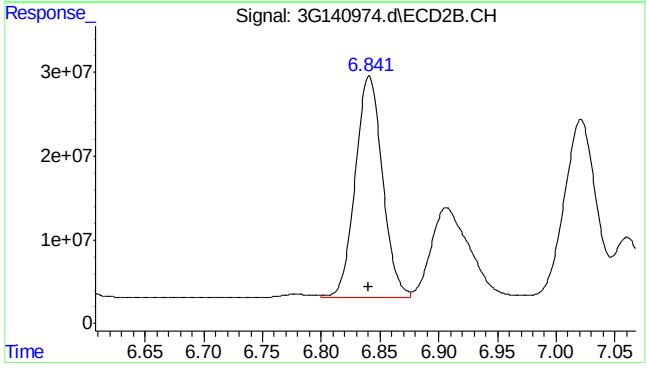
#44 AR1016-D

R.T.: 6.170 min
Delta R.T.: 0.000 min
Response: 532831326
Conc: 2260.31 PPB



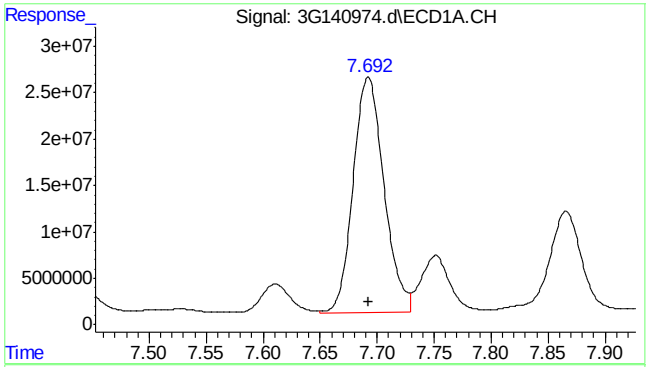
#45 AR1016-E

R.T.: 5.639 min
Delta R.T.: 0.000 min
Response: 248015879
Conc: 1954.21 PPB m



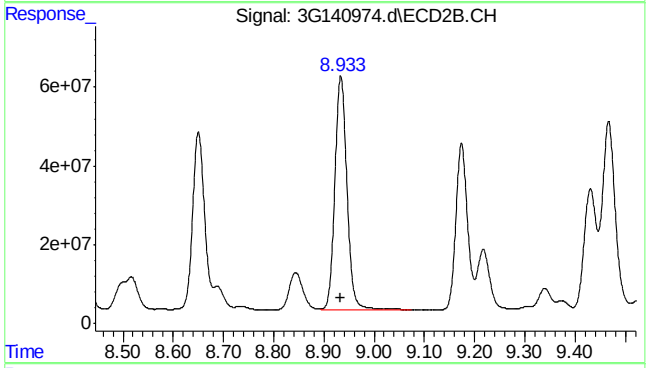
#45 AR1016-E

R.T.: 6.841 min
Delta R.T.: 0.000 min
Response: 427593561
Conc: 2286.67 PPB



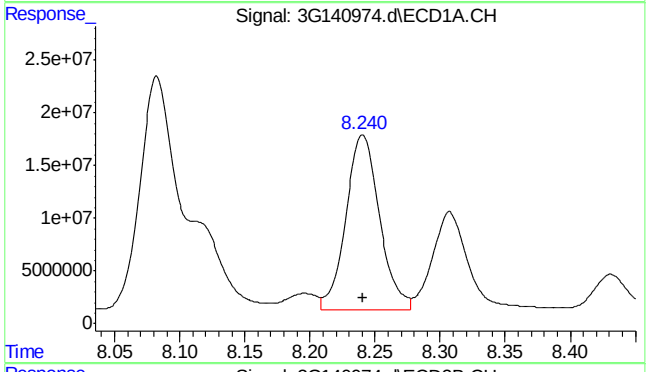
#46 AR1260-A

R.T.: 7.692 min
Delta R.T.: 0.000 min
Response: 478387866
Conc: 1372.74 PPB



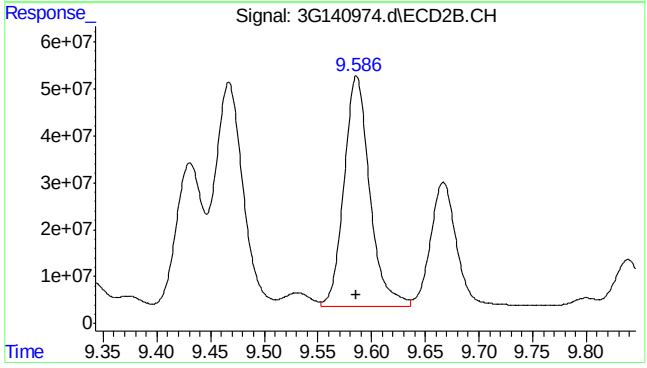
#46 AR1260-A

R.T.: 8.934 min
Delta R.T.: 0.000 min
Response: 990411737
Conc: 2331.12 PPB



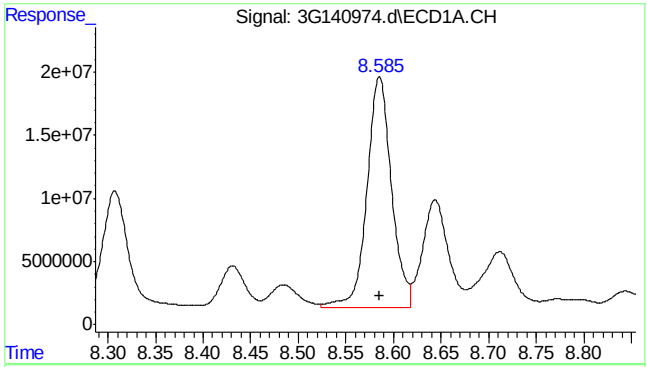
#47 AR1260-B

R.T.: 8.241 min
Delta R.T.: 0.000 min
Response: 298033373
Conc: 1421.30 PPB



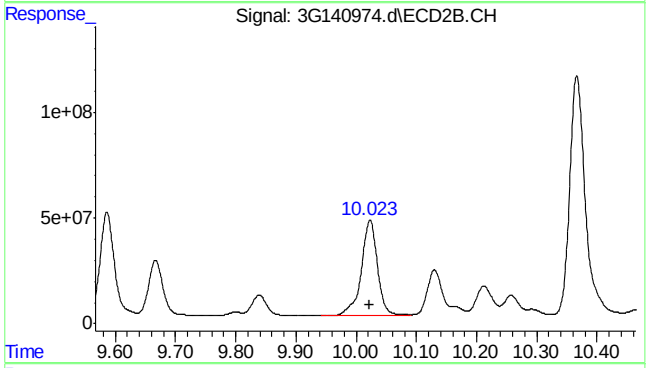
#47 AR1260-B

R.T.: 9.586 min
Delta R.T.: 0.000 min
Response: 815103236
Conc: 2323.03 PPB



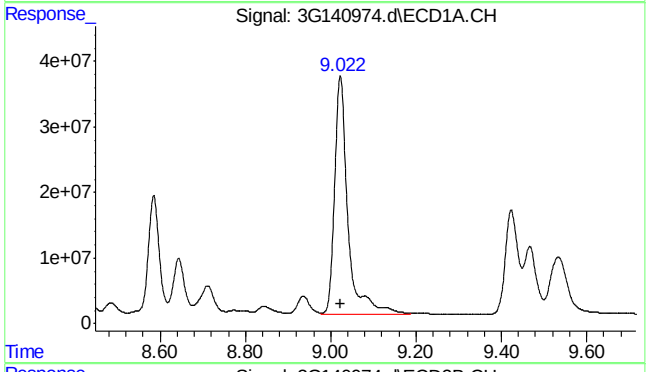
#48 AR1260-C

R.T.: 8.585 min
Delta R.T.: 0.000 min
Response: 328341446
Conc: 1383.03 PPB



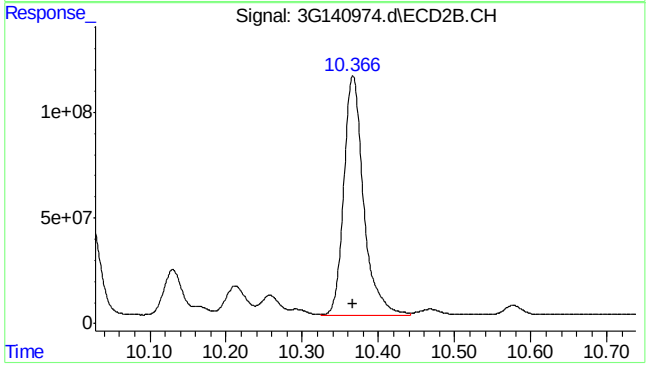
#48 AR1260-C

R.T.: 10.023 min
Delta R.T.: 0.000 min
Response: 844632854
Conc: 2305.07 PPB



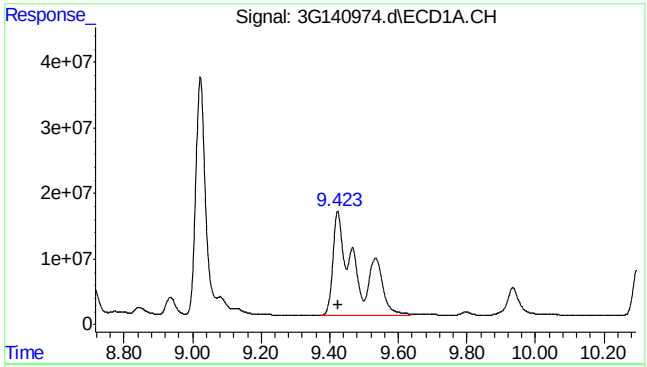
#49 AR1260-D

R.T.: 9.022 min
Delta R.T.: 0.000 min
Response: 794911335
Conc: 1530.80 PPB m



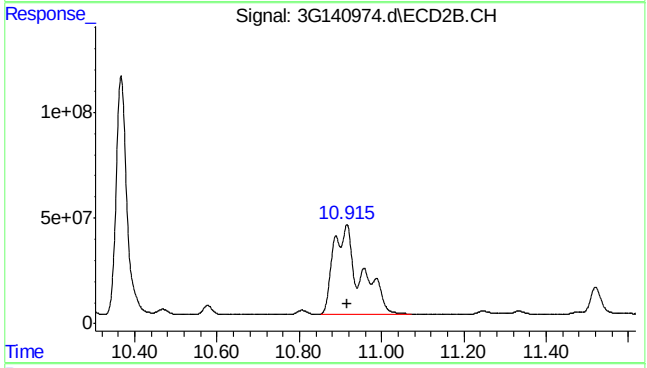
#49 AR1260-D

R.T.: 10.367 min
Delta R.T.: 0.000 min
Response: 2042145681
Conc: 2290.93 PPB



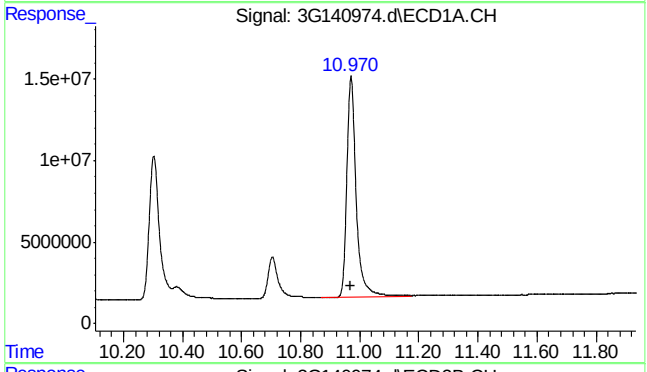
#50 AR1260-E

R.T.: 9.423 min
Delta R.T.: 0.000 min
Response: 792756185
Conc: 1389.86 PPB m



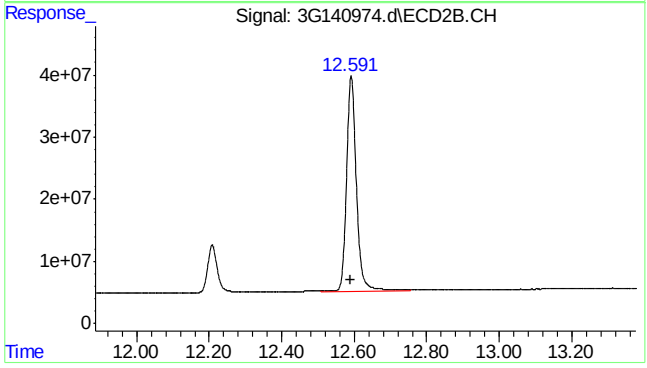
#50 AR1260-E

R.T.: 10.915 min
Delta R.T.: 0.000 min
Response: 1978856629
Conc: 2205.84 PPB m



#51 Decachlorobiphenyl

R.T.: 10.970 min
Delta R.T.: 0.000 min
Response: 294575960
Conc: 69.00 ppb



#51 Decachlorobiphenyl

R.T.: 12.591 min
Delta R.T.: 0.000 min
Response: 666308514
Conc: 91.57 ppb

11.3.13 11

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/25/24 12:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140980.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 17:58 pm
Operator : mahalial
Sample : ic5160-1000 (ar1221)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:14:18 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:13:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.464	4.077	339.9E6	740.1E6	57.837	88.063 #
	Spiked Amount 40.000			Recovery	= 144.59%	220.16%	
51) S	Decachlor...	10.973	12.594	296.7E6	801.2E6	69.512	110.099 #
	Spiked Amount 40.000			Recovery	= 173.78%	275.25%	
	Target Compounds						
2)	AR1221-A	2.872	3.469	58562656	109.5E6	1404.413	2102.568 #
3)	AR1221-B	3.654	4.470	87294725	205.1E6	1351.945	2236.193 #
4)	AR1221-C	3.882	4.756	203.3E6	461.5E6	1345.992	2127.555 #
5)	AR1221-D	4.326	5.409f	47134559	162.5E6	1248.460m	2191.390m#
6)	AR1221-E	4.927	5.979	48347682	115.6E6	1090.449m	1837.025m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

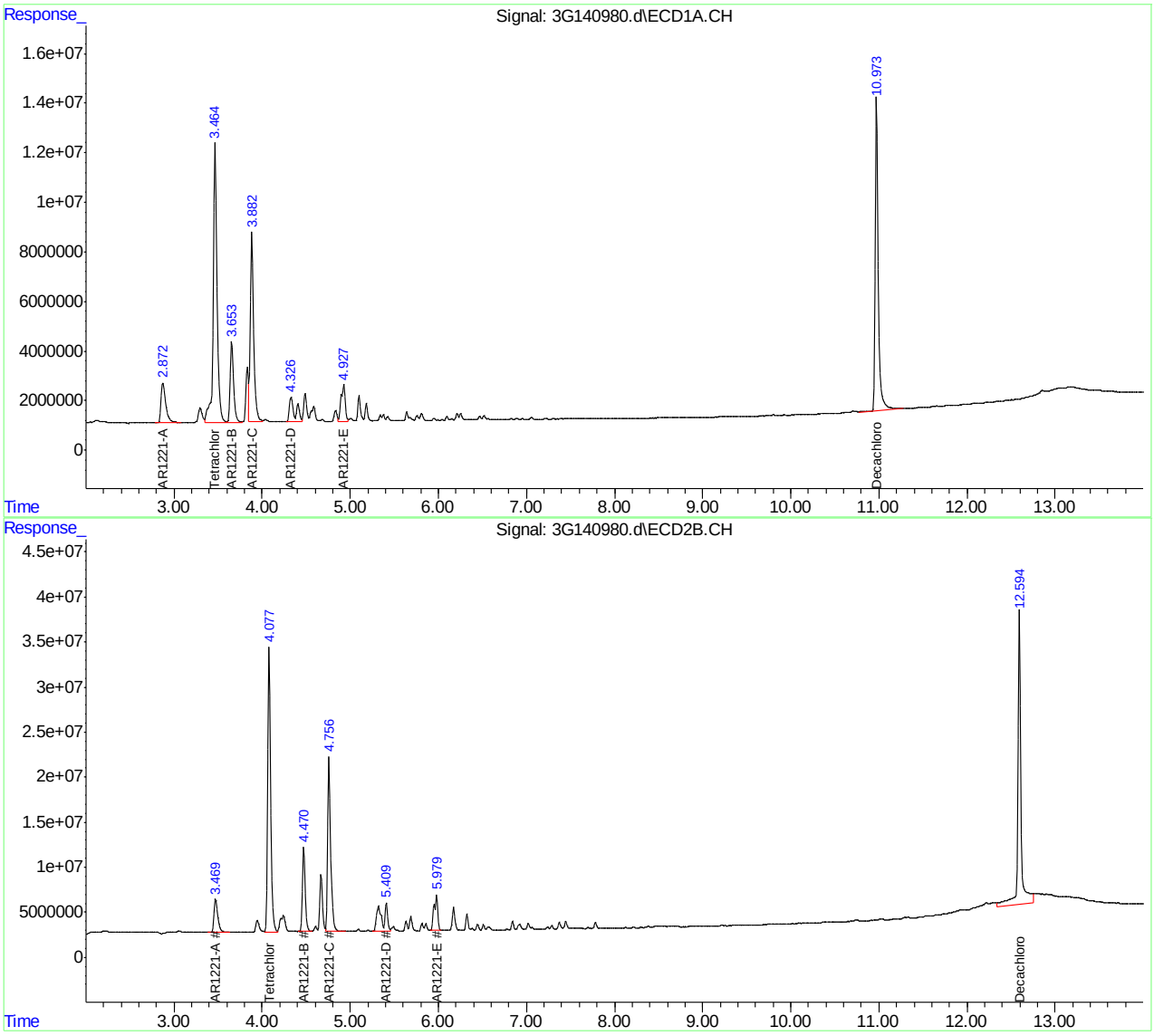
11.3.14 11

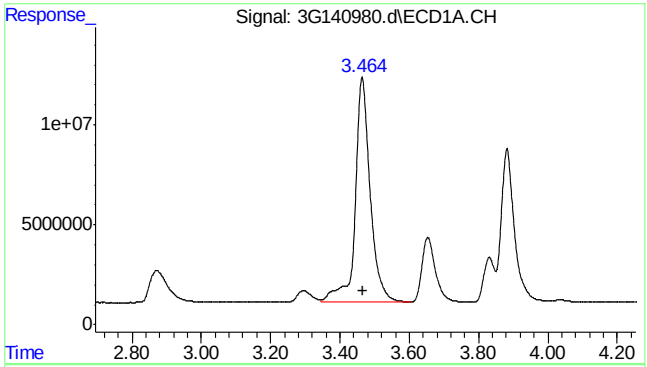
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140980.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 17:58 pm
Operator : mahalial
Sample : ic5160-1000 (ar1221)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:14:18 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:13:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

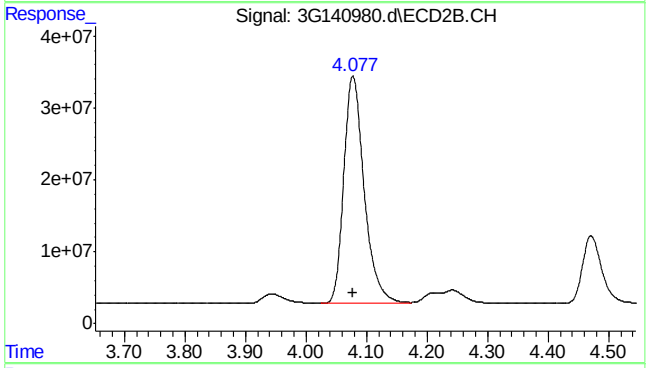
Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





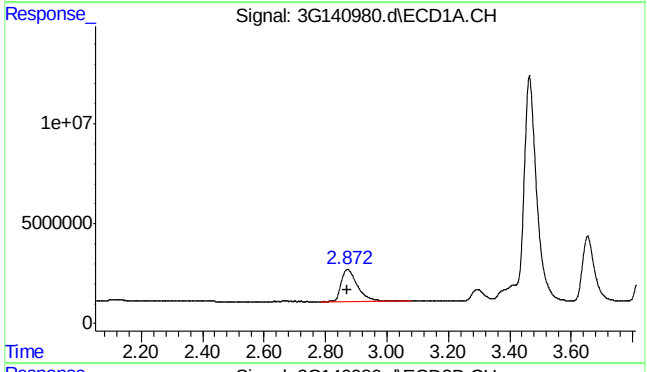
#1 Tetrachloro-m-xylene

R.T.: 3.464 min
Delta R.T.: 0.000 min
Response: 339917923
Conc: 57.84 ppb



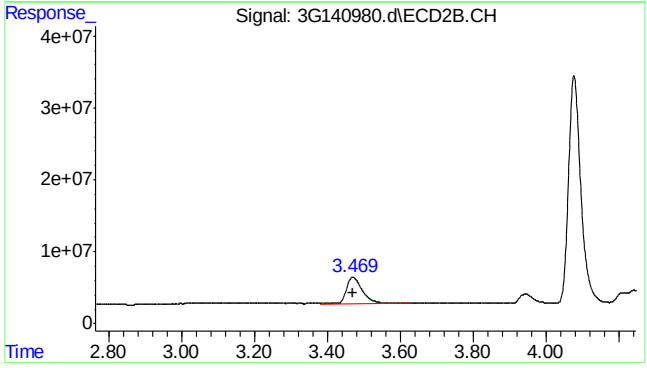
#1 Tetrachloro-m-xylene

R.T.: 4.077 min
Delta R.T.: 0.000 min
Response: 740074952
Conc: 88.06 ppb



#2 AR1221-A

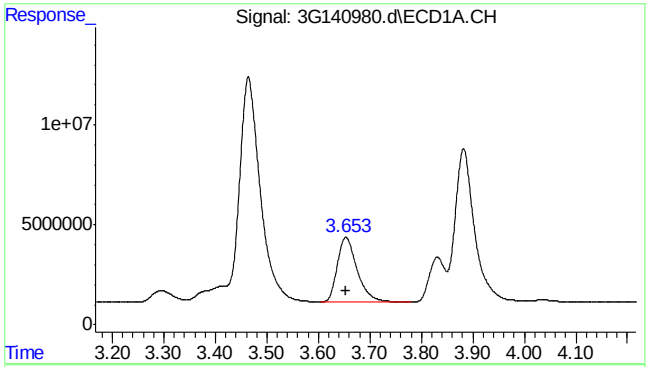
R.T.: 2.872 min
Delta R.T.: 0.000 min
Response: 58562656
Conc: 1404.41



#2 AR1221-A

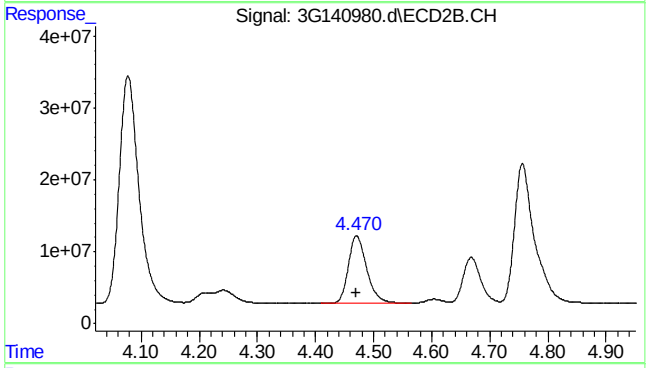
R.T.: 3.469 min
Delta R.T.: 0.000 min
Response: 109497680
Conc: 2102.57

11.3.14 11



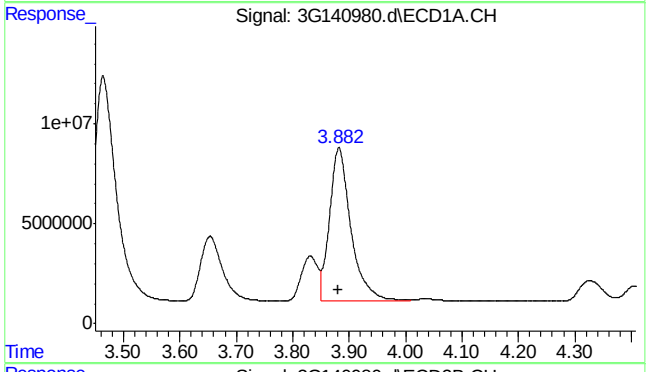
#3 AR1221-B

R.T.: 3.654 min
Delta R.T.: 0.000 min
Response: 87294725
Conc: 1351.95 PPB



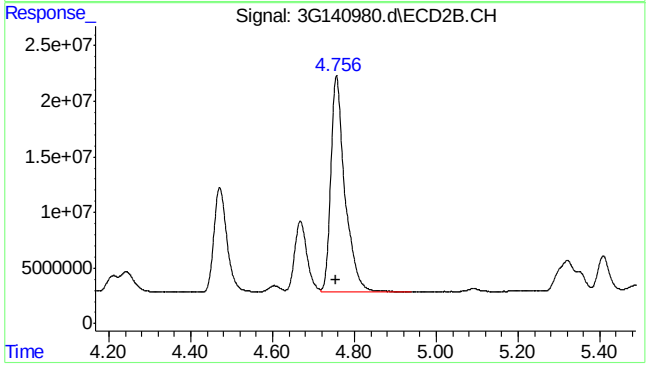
#3 AR1221-B

R.T.: 4.470 min
Delta R.T.: 0.000 min
Response: 205053884
Conc: 2236.19 PPB



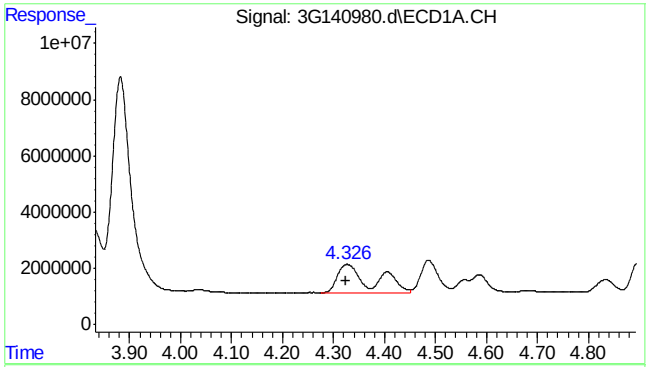
#4 AR1221-C

R.T.: 3.882 min
Delta R.T.: 0.000 min
Response: 203322187
Conc: 1345.99 PPB



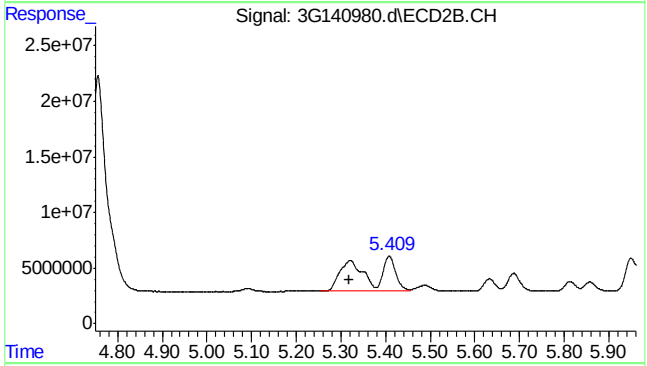
#4 AR1221-C

R.T.: 4.756 min
Delta R.T.: 0.000 min
Response: 461479562
Conc: 2127.55 PPB



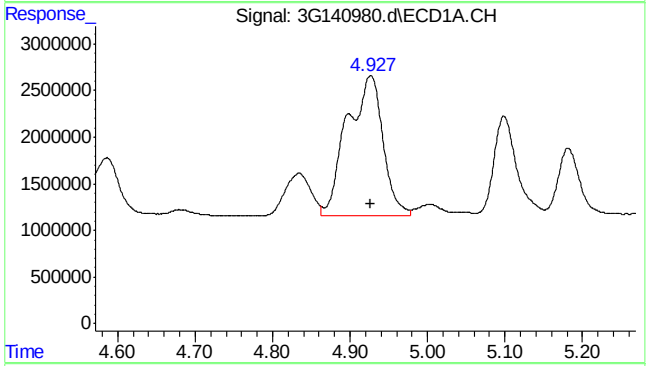
#5 AR1221-D

R.T.: 4.326 min
Delta R.T.: 0.000 min
Response: 47134559
Conc: 1248.46 PPB m



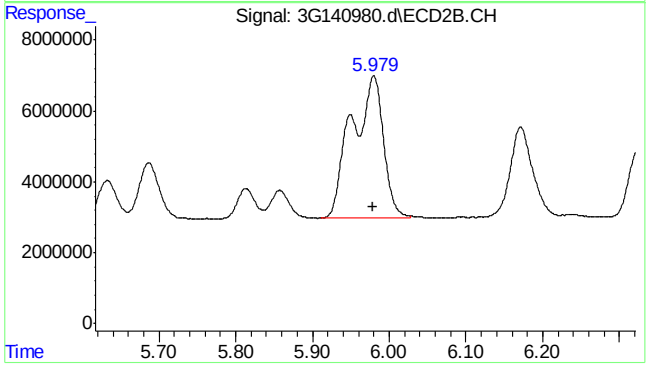
#5 AR1221-D

R.T.: 5.409 min
Delta R.T.: 0.088 min
Response: 162464374
Conc: 2191.39 PPB m



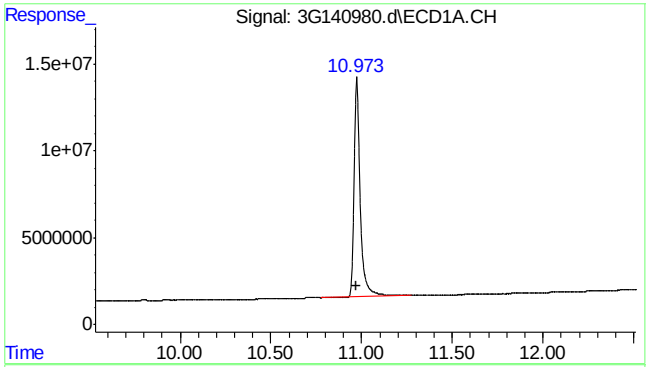
#6 AR1221-E

R.T.: 4.927 min
Delta R.T.: 0.000 min
Response: 48347682
Conc: 1090.45 PPB m



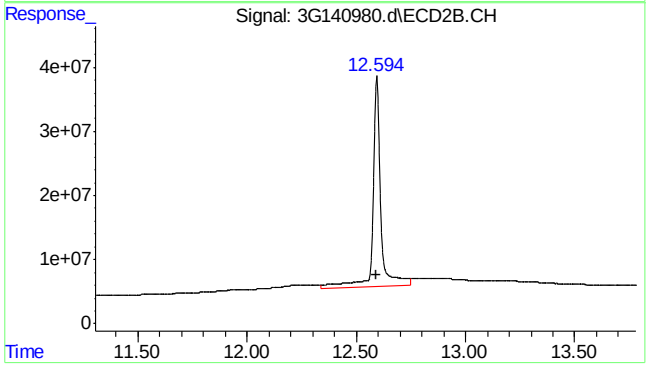
#6 AR1221-E

R.T.: 5.979 min
Delta R.T.: 0.000 min
Response: 115574274
Conc: 1837.02 PPB m



#51 Decachlorobiphenyl

R.T.: 10.973 min
Delta R.T.: 0.003 min
Response: 296747164
Conc: 69.51 ppb



#51 Decachlorobiphenyl

R.T.: 12.594 min
Delta R.T.: 0.004 min
Response: 801168856
Conc: 110.10 ppb

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140981.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 18:15 pm
Operator : mahalial
Sample : ic5160-1000 (ar1254)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:16:45 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:16:01 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
1)	S Tetrachlo...	3.464	4.077	293.5E6	700.8E6	49.944	83.384	#
	Spiked Amount 40.000			Recovery	=	124.86%	208.46%	
51)	S Decachlor...	10.972	12.594	276.9E6	641.6E6	64.867	88.168	#
	Spiked Amount 40.000			Recovery	=	162.17%	220.42%	
	Target Compounds							
24)	AR1254-A	6.153	7.443	225.8E6	600.7E6	1311.839	2036.395	#
25)	AR1254-B	6.507	7.698	312.3E6	673.2E6	1271.508	2066.659	#
26)	AR1254-C	6.887	8.208	254.0E6	561.2E6	1271.385	2103.802	#
27)	AR1254-D	7.054	8.376	435.9E6	1056.8E6	1235.621	2084.133	#
28)	AR1254-E	7.441	8.689	307.2E6	796.1E6	1150.930	2057.670	#
29)	AR1254-F	7.694	9.175	301.9E6	412.7E6	1280.318	1869.872	#
30)	AR1254-G	8.083	9.467	437.9E6	863.1E6	1192.910	2145.969	#

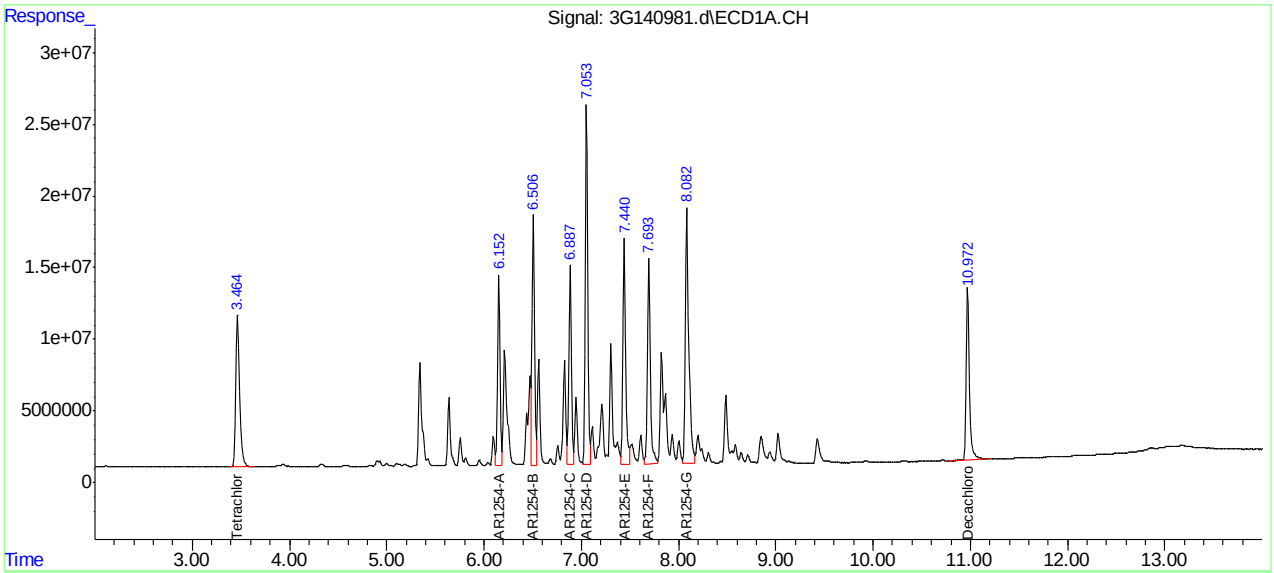
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

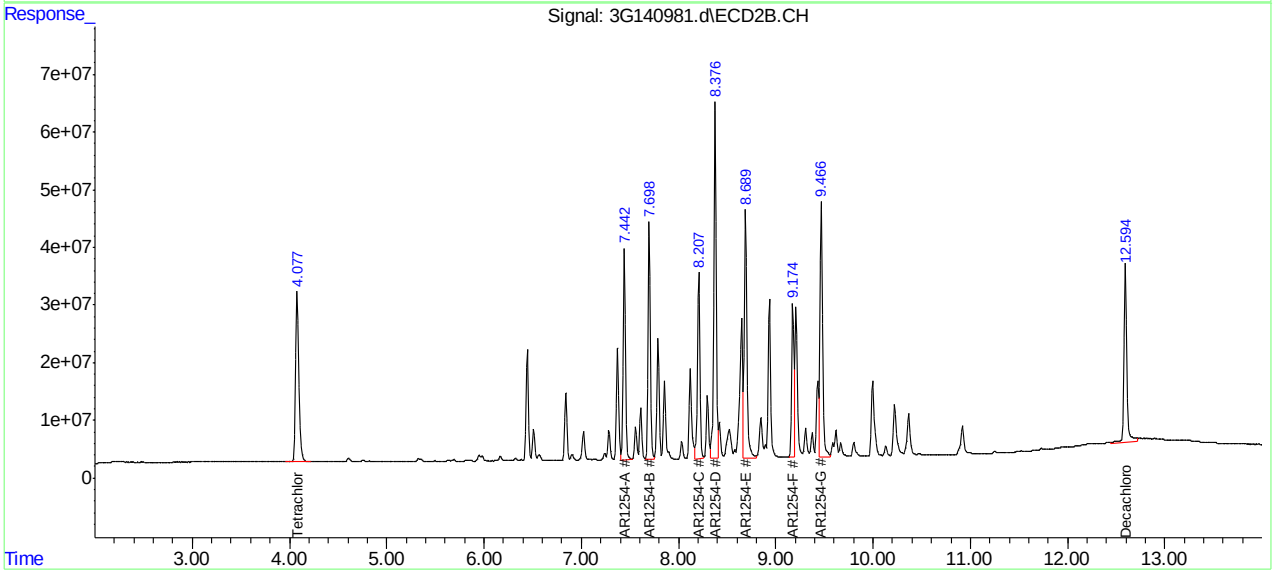
Quantitation Report (QT Reviewed)

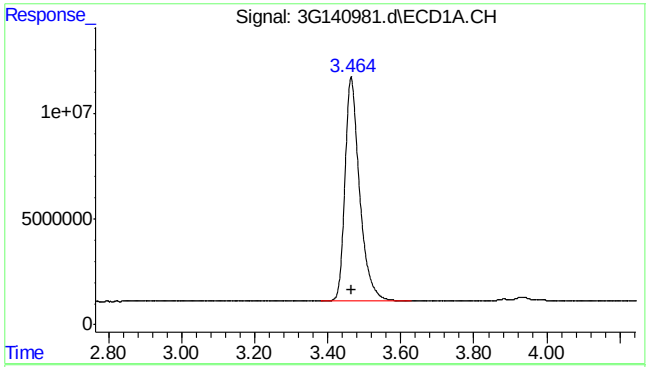
Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140981.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 18:15 pm
Operator : mahalial
Sample : ic5160-1000 (ar1254)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:16:45 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:16:01 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

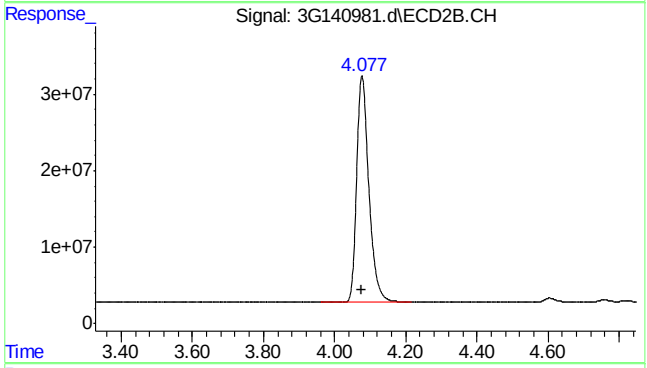






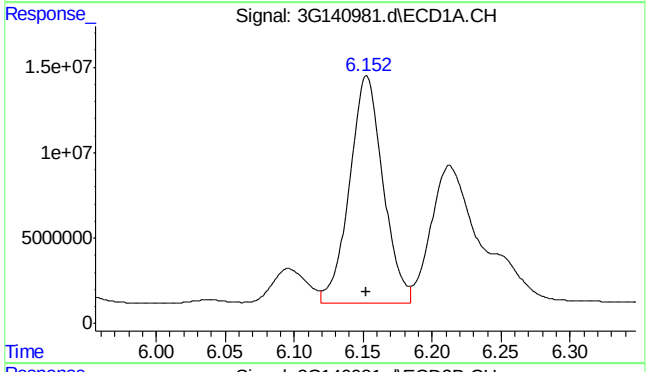
#1 Tetrachloro-m-xylene

R.T.: 3.464 min
Delta R.T.: 0.000 min
Response: 293527944
Conc: 49.94 ppb



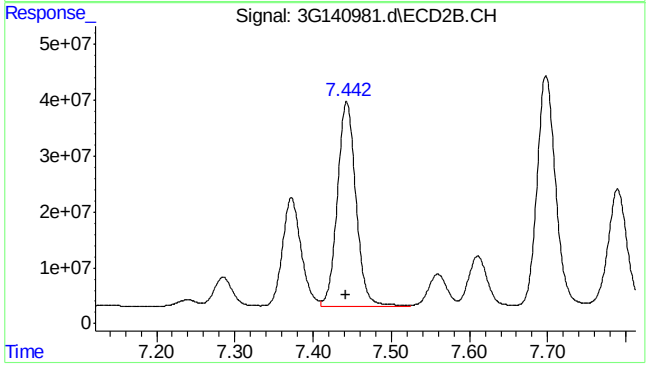
#1 Tetrachloro-m-xylene

R.T.: 4.077 min
Delta R.T.: 0.000 min
Response: 700758596
Conc: 83.38 ppb



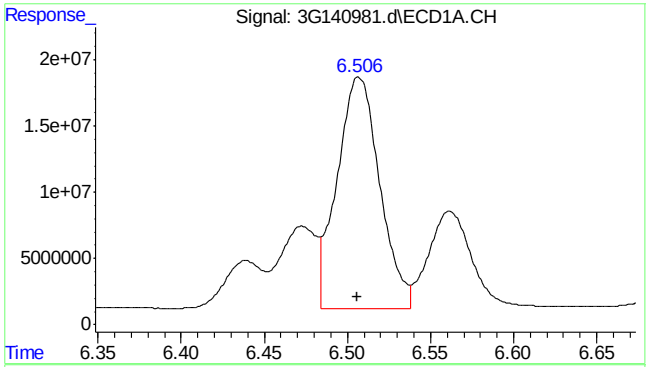
#24 AR1254-A

R.T.: 6.153 min
Delta R.T.: 0.000 min
Response: 225829078
Conc: 1311.84 PPB



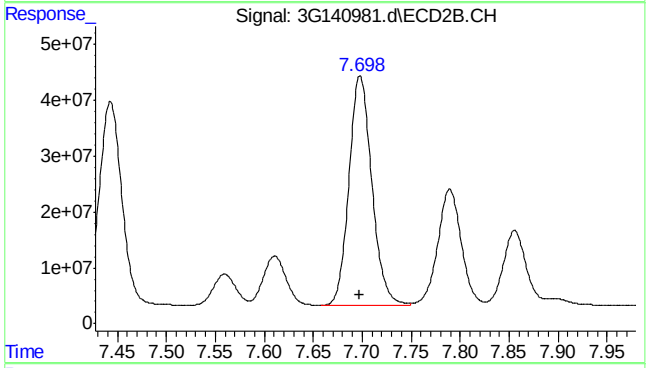
#24 AR1254-A

R.T.: 7.443 min
Delta R.T.: 0.000 min
Response: 600684935
Conc: 2036.39 PPB



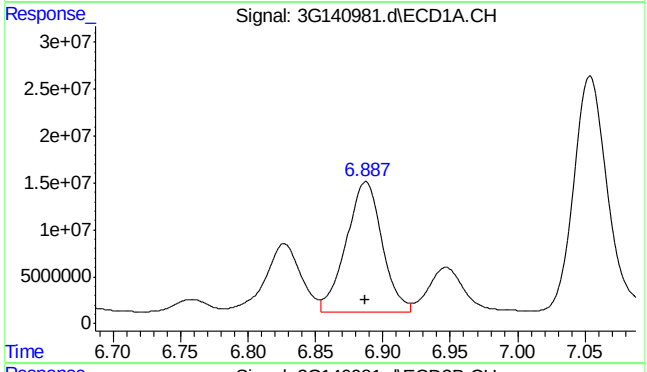
#25 AR1254-B

R.T.: 6.507 min
Delta R.T.: 0.001 min
Response: 312276072
Conc: 1271.51 PPB



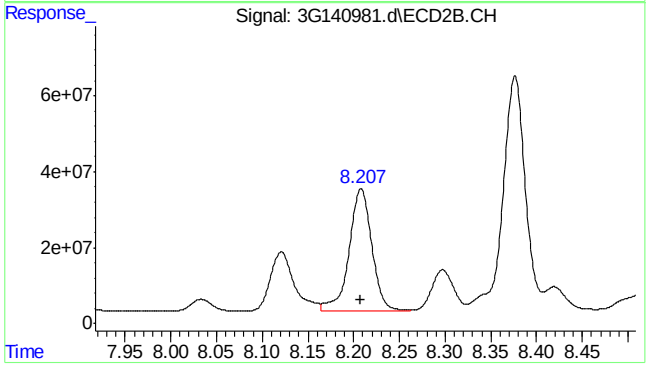
#25 AR1254-B

R.T.: 7.698 min
Delta R.T.: 0.000 min
Response: 673228748
Conc: 2066.66 PPB



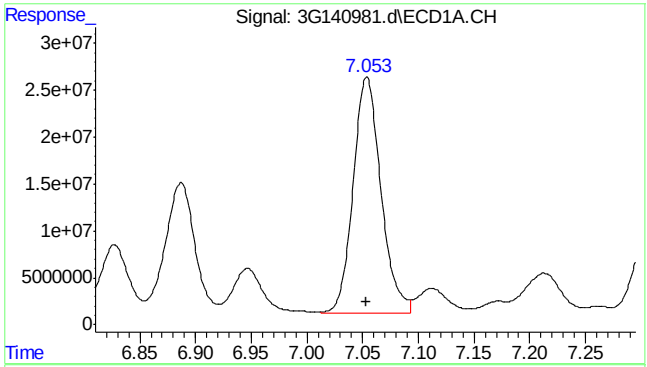
#26 AR1254-C

R.T.: 6.887 min
Delta R.T.: 0.000 min
Response: 253984847
Conc: 1271.38 PPB



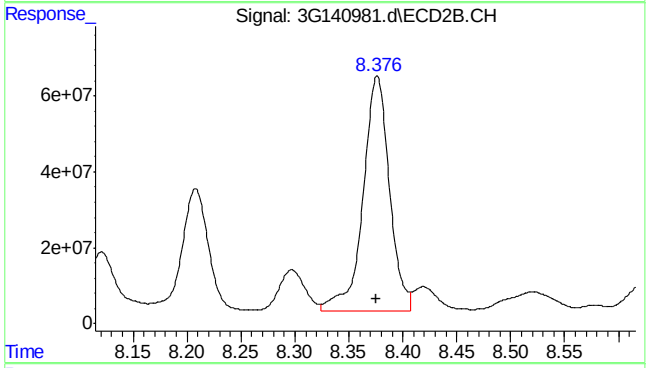
#26 AR1254-C

R.T.: 8.208 min
Delta R.T.: 0.000 min
Response: 561178139
Conc: 2103.80 PPB



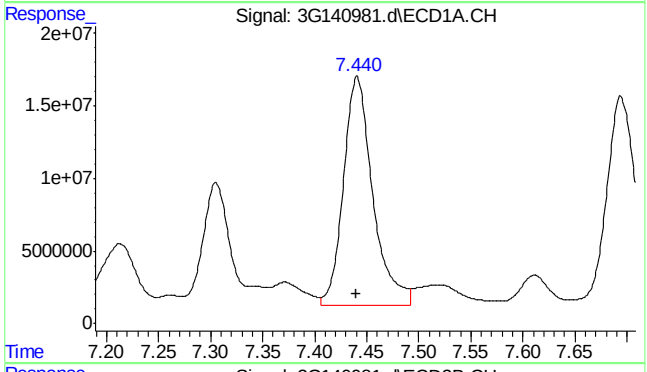
#27 AR1254-D

R.T.: 7.054 min
Delta R.T.: 0.000 min
Response: 435911413
Conc: 1235.62 PPB



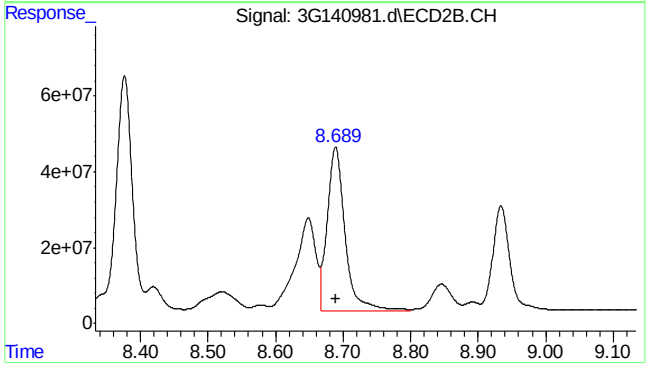
#27 AR1254-D

R.T.: 8.376 min
Delta R.T.: 0.000 min
Response: 1056781804
Conc: 2084.13 PPB



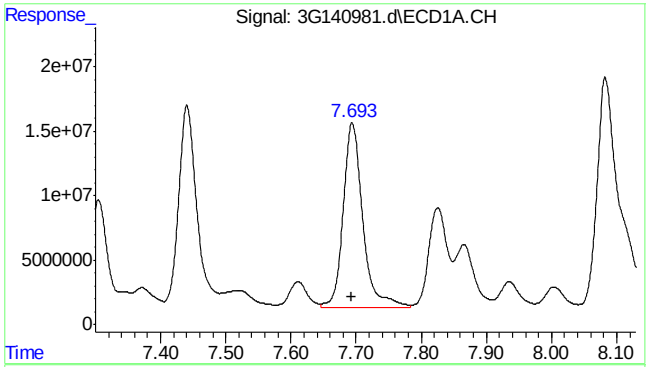
#28 AR1254-E

R.T.: 7.441 min
Delta R.T.: 0.000 min
Response: 307197465
Conc: 1150.93 PPB



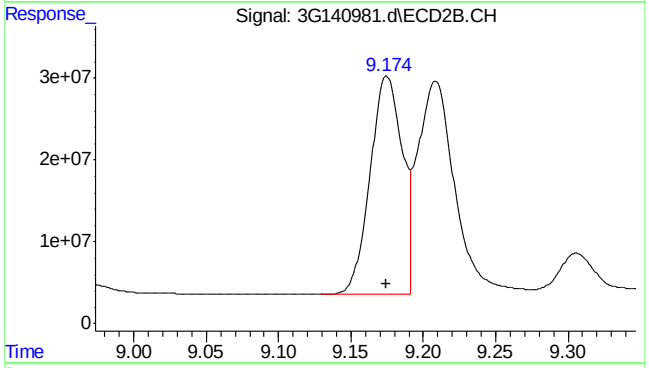
#28 AR1254-E

R.T.: 8.689 min
Delta R.T.: 0.000 min
Response: 796119768
Conc: 2057.67 PPB



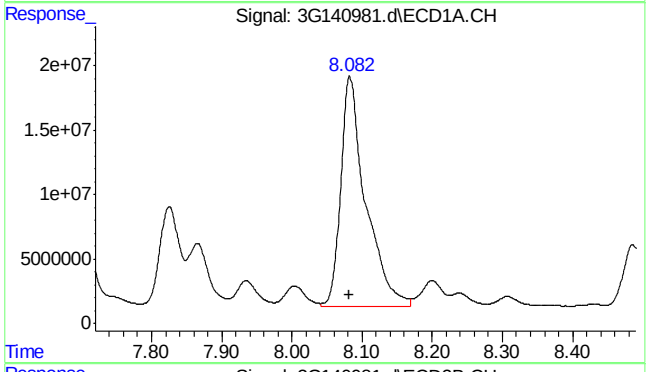
#29 AR1254-F

R.T.: 7.694 min
Delta R.T.: 0.000 min
Response: 301897844
Conc: 1280.32 PPB



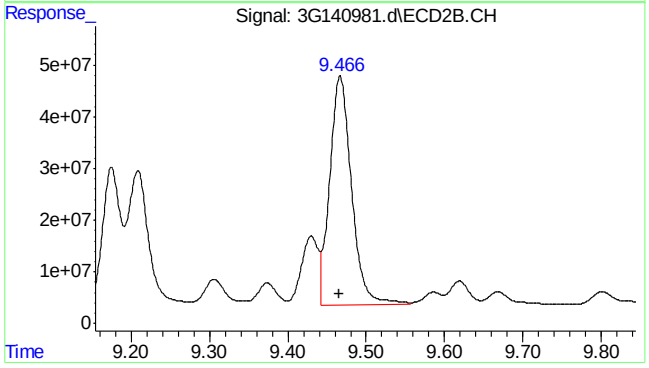
#29 AR1254-F

R.T.: 9.175 min
Delta R.T.: 0.000 min
Response: 412717880
Conc: 1869.87 PPB



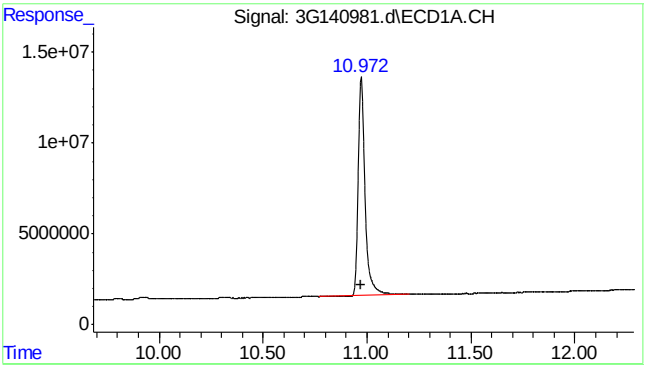
#30 AR1254-G

R.T.: 8.083 min
Delta R.T.: 0.000 min
Response: 437949821
Conc: 1192.91 PPB



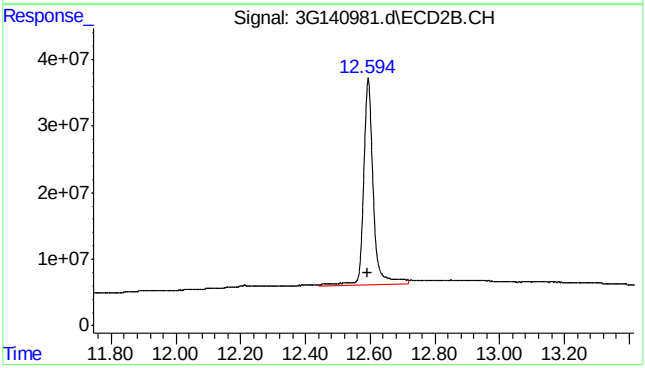
#30 AR1254-G

R.T.: 9.467 min
Delta R.T.: 0.000 min
Response: 863095795
Conc: 2145.97 PPB



#51 Decachlorobiphenyl

R.T.: 10.972 min
Delta R.T.: 0.002 min
Response: 276918324
Conc: 64.87 ppb



#51 Decachlorobiphenyl

R.T.: 12.594 min
Delta R.T.: 0.003 min
Response: 641583672
Conc: 88.17 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/25/24 12:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140982.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 18:31 pm
Operator : mahalial
Sample : ic5160-1000 (ar1232)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:52:24 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:51:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.465	4.077	281.3E6	625.0E6	47.855	74.370 #
	Spiked Amount 40.000			Recovery	= 119.64%	185.93%	
51) S	Decachlor...	10.973	12.593	248.1E6	577.2E6	58.109	79.320 #
	Spiked Amount 40.000			Recovery	= 145.27%	198.30%	
	Target Compounds						
7)	AR1232-A	3.882	4.757	142.6E6	322.8E6	1205.973	1924.233 #
8)	AR1232-B	4.325	5.325	103.9E6	266.6E6	1163.473	1917.388 #
9)	AR1232-C	4.927	5.979	221.1E6	550.6E6	1156.379m	1929.004m#
10)	AR1232-D	5.099	6.170	94644063	218.9E6	1161.692	1937.865 #
11)	AR1232-E	5.639	6.841	93316566	153.9E6	1665.690m	1931.653

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

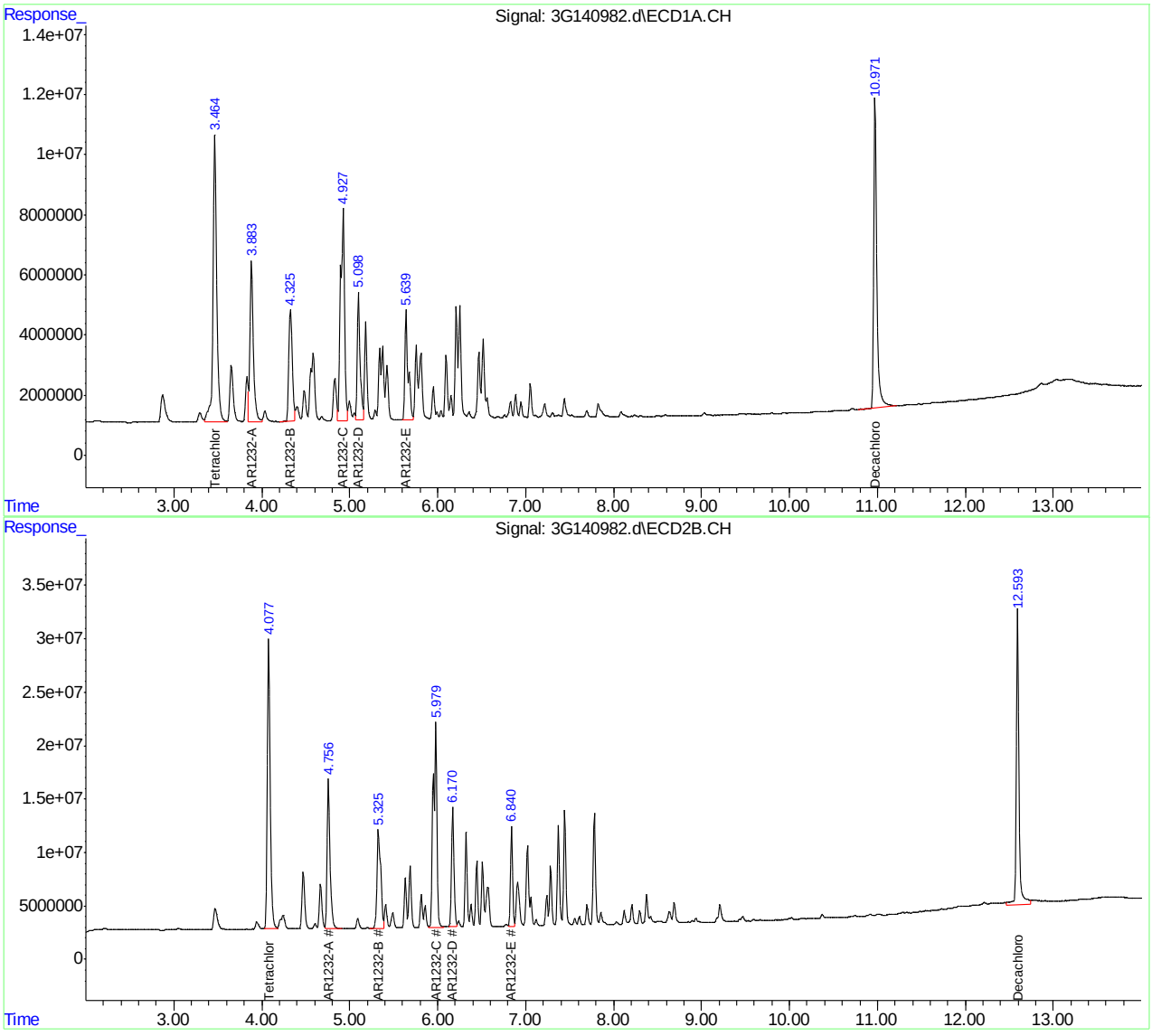
11.3.16 11

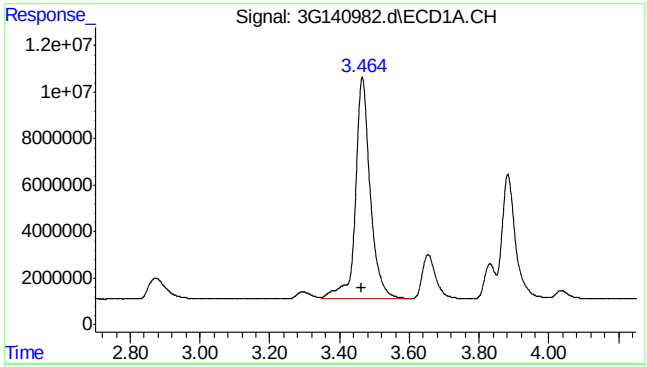
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140982.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 18:31 pm
Operator : mahalial
Sample : ic5160-1000 (ar1232)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:52:24 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:51:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

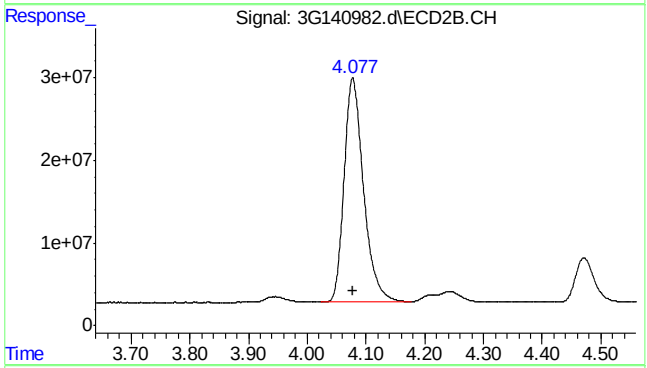
Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





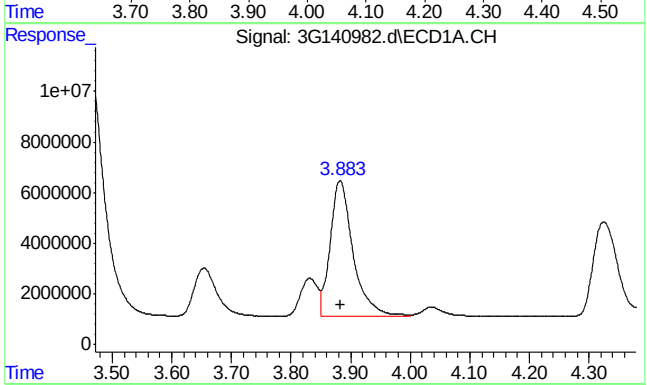
#1 Tetrachloro-m-xylene

R.T.: 3.465 min
Delta R.T.: 0.000 min
Response: 281253634
Conc: 47.86 ppb



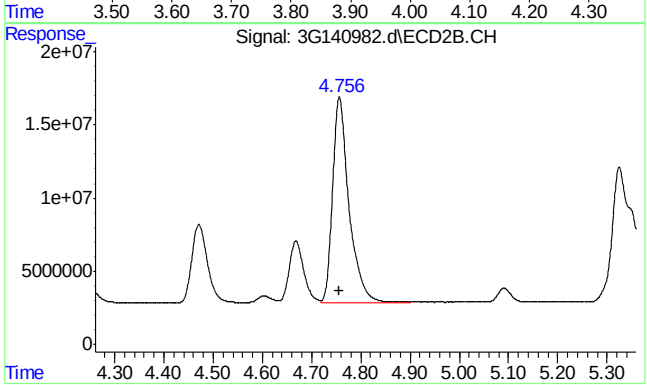
#1 Tetrachloro-m-xylene

R.T.: 4.077 min
Delta R.T.: 0.000 min
Response: 625005503
Conc: 74.37 ppb



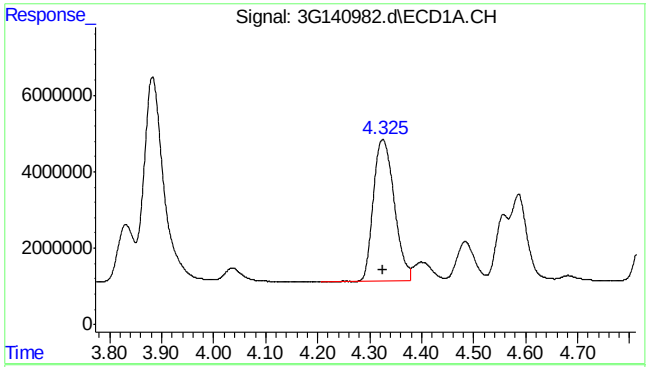
#7 AR1232-A

R.T.: 3.882 min
Delta R.T.: 0.000 min
Response: 142647993
Conc: 1205.97 PPB



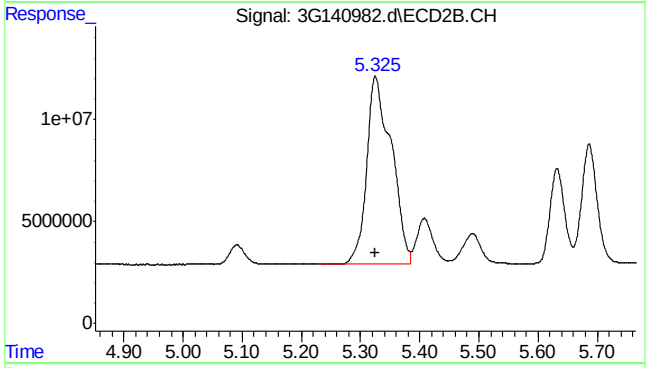
#7 AR1232-A

R.T.: 4.757 min
Delta R.T.: 0.000 min
Response: 322760475
Conc: 1924.23 PPB



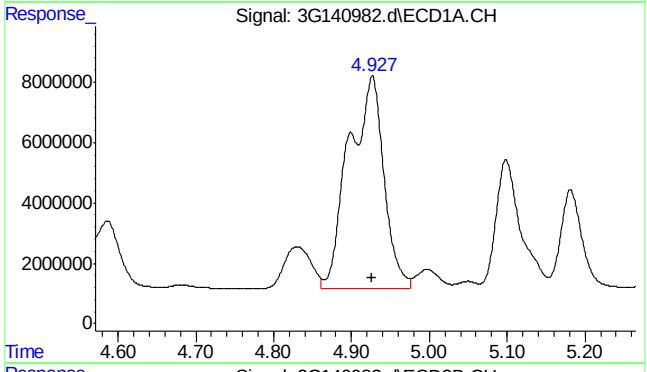
#8 AR1232-B

R.T.: 4.325 min
Delta R.T.: 0.000 min
Response: 103876273
Conc: 1163.47 PPB



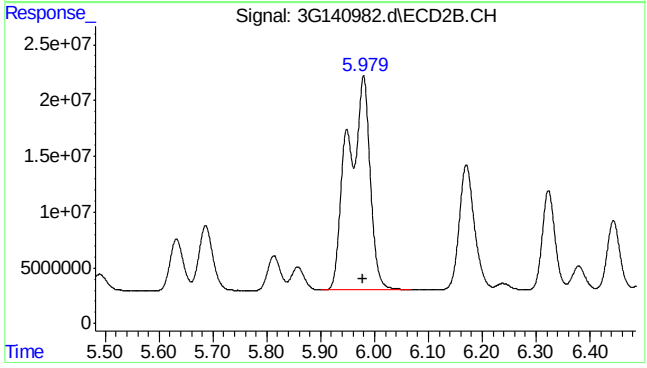
#8 AR1232-B

R.T.: 5.325 min
Delta R.T.: 0.000 min
Response: 266552285
Conc: 1917.39 PPB



#9 AR1232-C

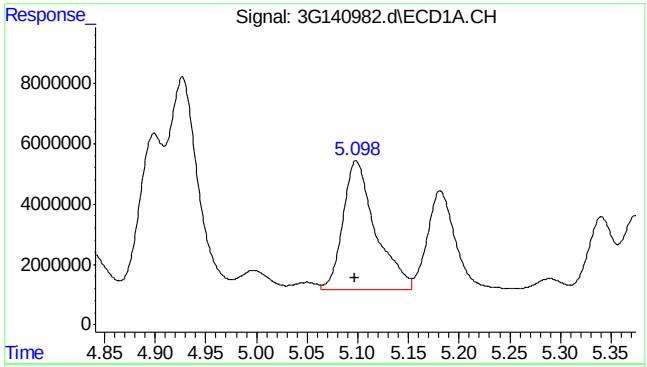
R.T.: 4.927 min
Delta R.T.: 0.000 min
Response: 221142082
Conc: 1156.38 PPB m



#9 AR1232-C

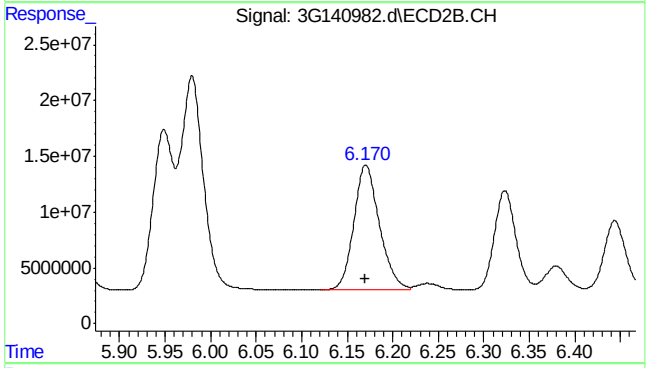
R.T.: 5.979 min
Delta R.T.: 0.000 min
Response: 550620052
Conc: 1929.00 PPB m

11.3.16 11



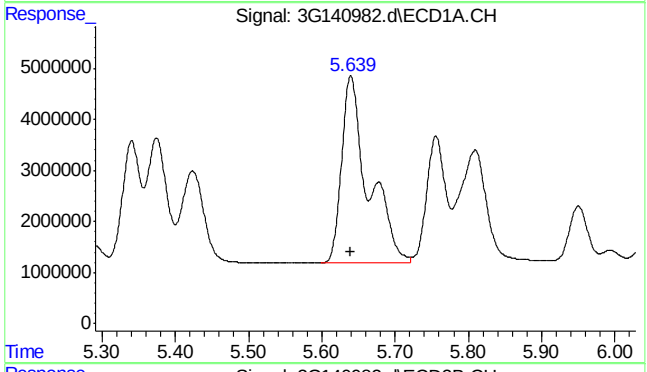
#10 AR1232-D

R.T.: 5.099 min
Delta R.T.: 0.000 min
Response: 94644063
Conc: 1161.69 PPB



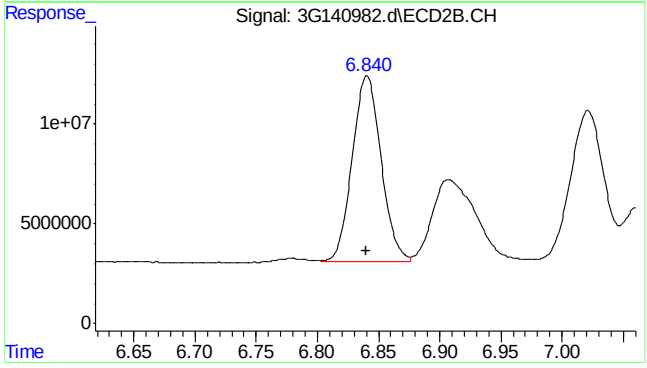
#10 AR1232-D

R.T.: 6.170 min
Delta R.T.: 0.000 min
Response: 218925804
Conc: 1937.87 PPB



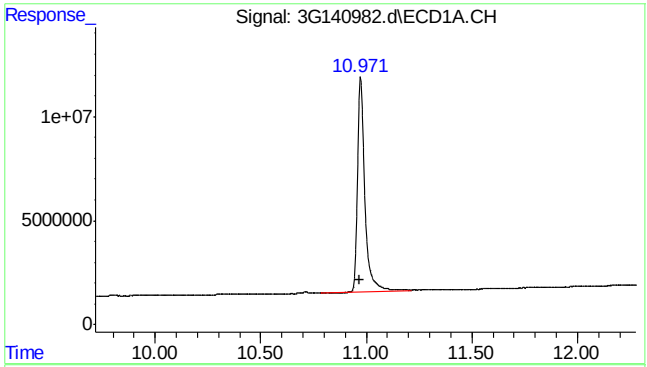
#11 AR1232-E

R.T.: 5.639 min
Delta R.T.: 0.000 min
Response: 93316566
Conc: 1665.69 PPB m



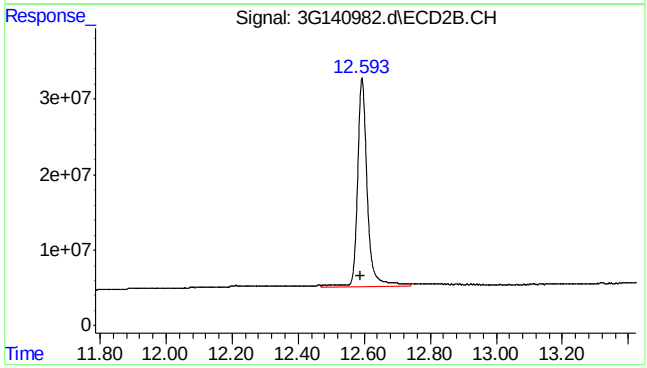
#11 AR1232-E

R.T.: 6.841 min
Delta R.T.: 0.000 min
Response: 153913571
Conc: 1931.65 PPB



#51 Decachlorobiphenyl

R.T.: 10.973 min
Delta R.T.: 0.002 min
Response: 248069160
Conc: 58.11 ppb



#51 Decachlorobiphenyl

R.T.: 12.593 min
Delta R.T.: 0.002 min
Response: 577196915
Conc: 79.32 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/25/24 12:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140983.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 18:48 pm
Operator : mahalial
Sample : ic5160-1000 (ar1262)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:54:39 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:53:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1)	S Tetrachlo...	3.464	4.078	288.2E6	686.3E6	49.031	81.663 #
	Spiked Amount 40.000			Recovery	=	122.58%	204.16%
51)	S Decachlor...	10.973	12.595	275.0E6	622.6E6	64.411	85.554 #
	Spiked Amount 40.000			Recovery	=	161.03%	213.89%
	Target Compounds						
31)	AR1262-A	7.691	8.935	346.6E6	791.4E6	1290.206	2305.929 #
32)	AR1262-B	8.242	9.588	439.6E6	1187.1E6	1359.004	2329.536 #
33)	AR1262-C	8.586	10.024	417.9E6	1013.9E6	1323.674	2297.603 #
34)	AR1262-D	9.023	10.368	947.4E6	2317.1E6	1465.237	2311.650 #
35)	AR1262-E	9.469	10.891	1029.6E6	2663.8E6	1387.647m	2281.438m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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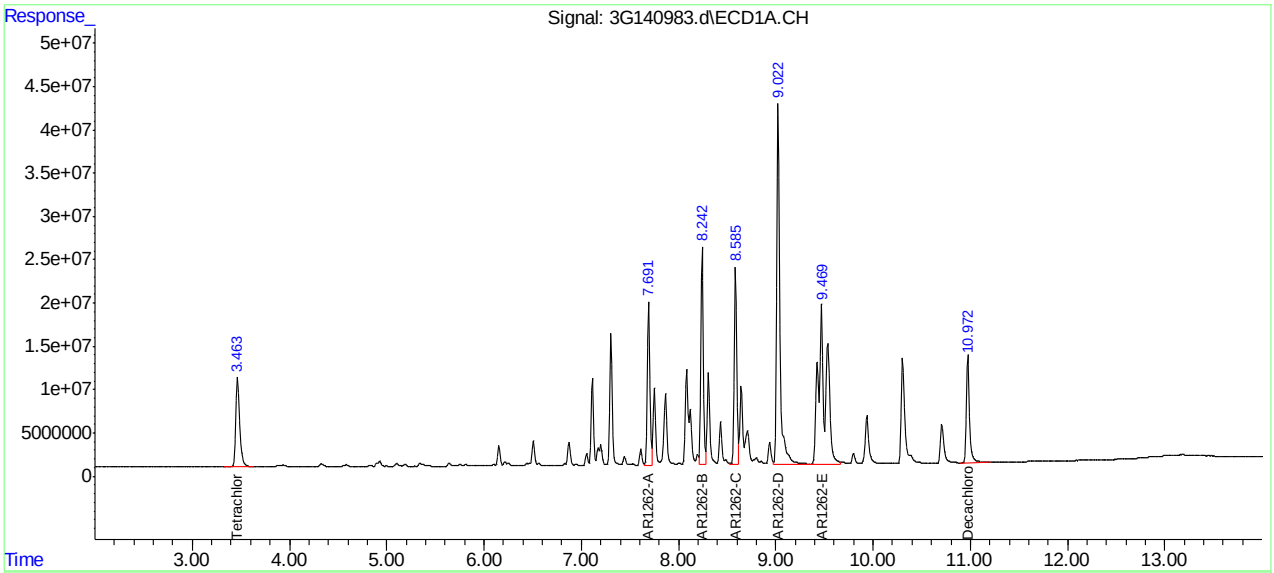
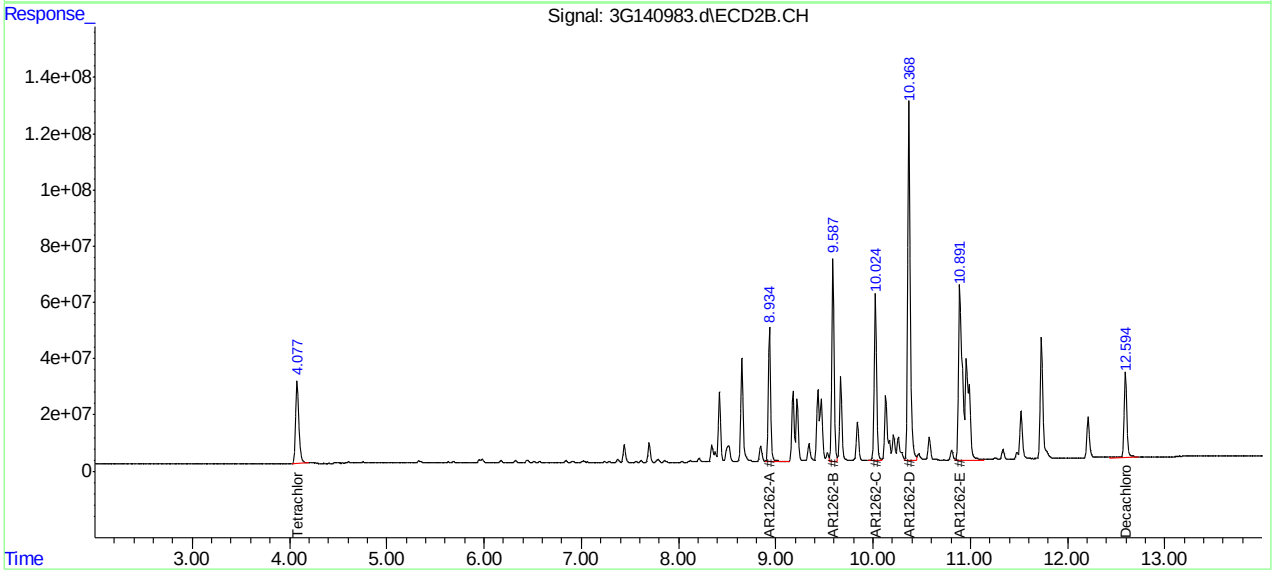
Quantitation Report (QT Reviewed)

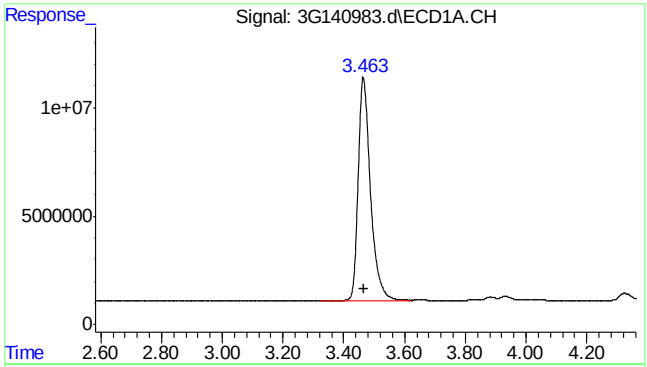
Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140983.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 18:48 pm
Operator : mahalial
Sample : ic5160-1000 (ar1262)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:54:39 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:53:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

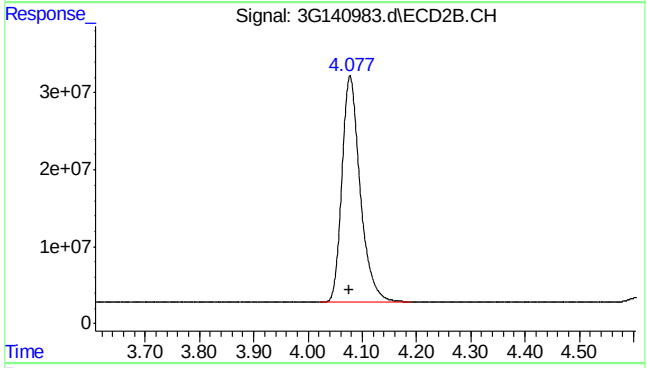






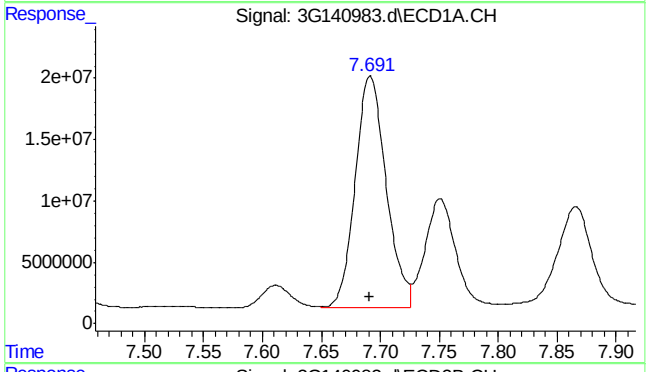
#1 Tetrachloro-m-xylene

R.T.: 3.464 min
Delta R.T.: 0.000 min
Response: 288165847
Conc: 49.03 ppb



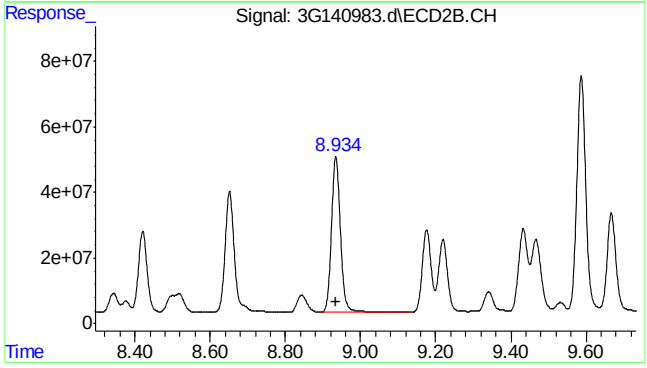
#1 Tetrachloro-m-xylene

R.T.: 4.078 min
Delta R.T.: 0.000 min
Response: 686291306
Conc: 81.66 ppb



#31 AR1262-A

R.T.: 7.691 min
Delta R.T.: 0.000 min
Response: 346600702
Conc: 1290.21 PPB



#31 AR1262-A

R.T.: 8.935 min
Delta R.T.: 0.000 min
Response: 791419142
Conc: 2305.93 PPB

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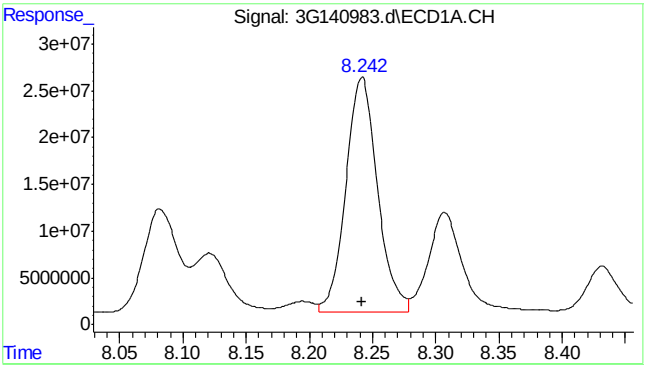
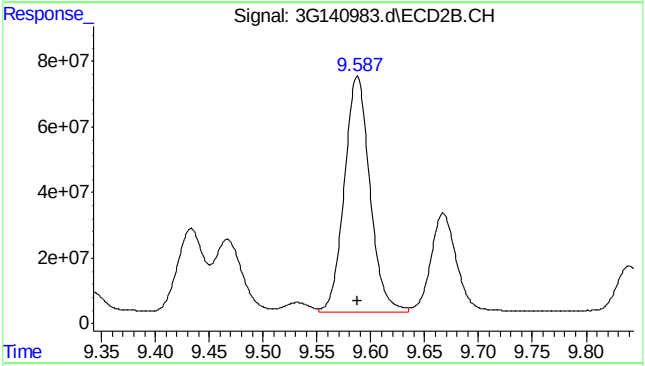


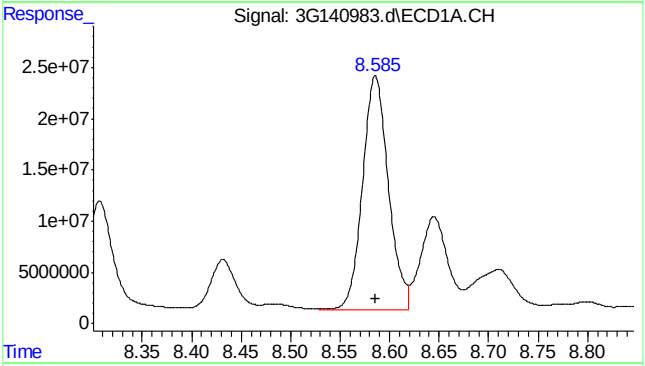
#32 AR1262-B

R.T.: 8.242 min
Delta R.T.: 0.000 min
Response: 439628448
Conc: 1359.00 PPB



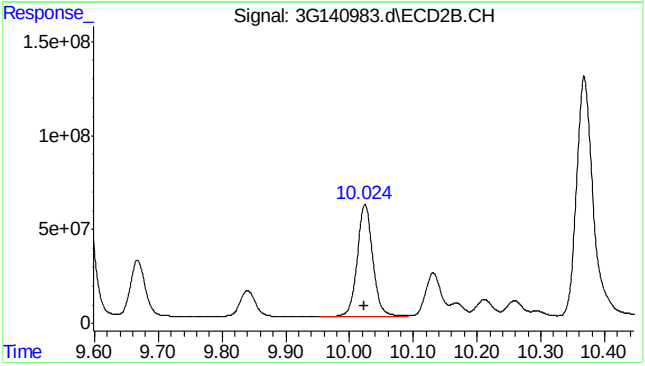
#32 AR1262-B

R.T.: 9.588 min
Delta R.T.: 0.000 min
Response: 1187086178
Conc: 2329.54 PPB



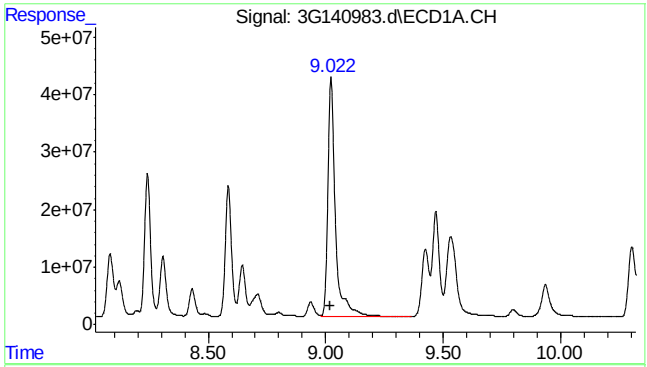
#33 AR1262-C

R.T.: 8.586 min
Delta R.T.: 0.000 min
Response: 417854158
Conc: 1323.67 PPB



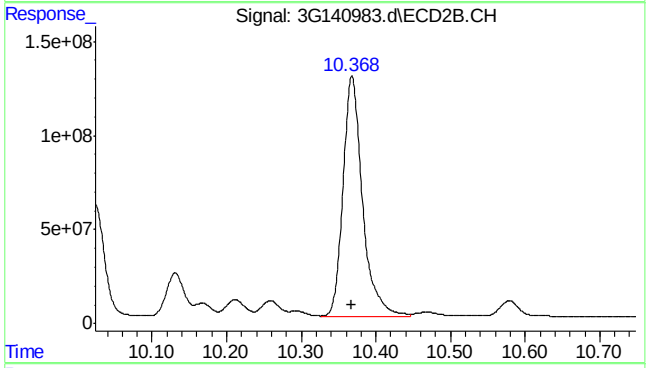
#33 AR1262-C

R.T.: 10.024 min
Delta R.T.: 0.000 min
Response: 1013875593
Conc: 2297.60 PPB



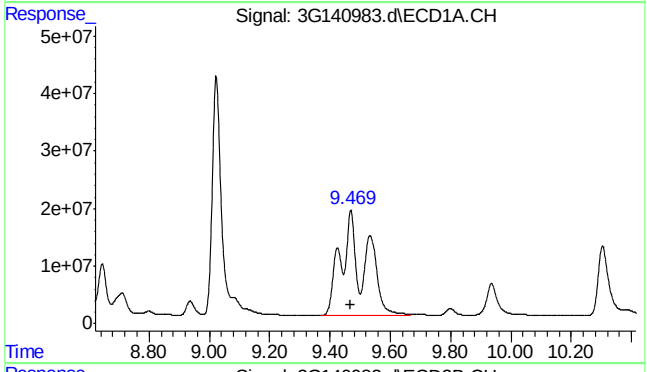
#34 AR1262-D

R.T.: 9.023 min
Delta R.T.: 0.000 min
Response: 947366914
Conc: 1465.24 PPB



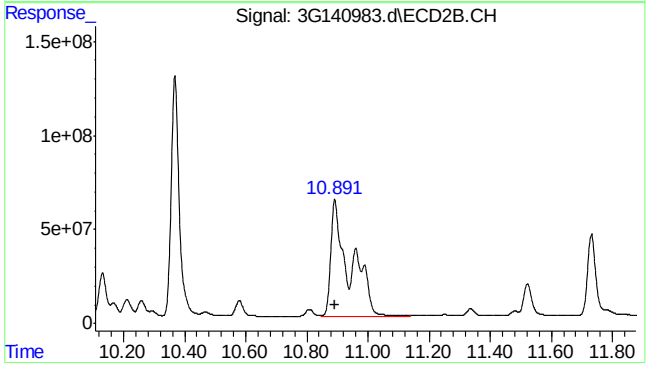
#34 AR1262-D

R.T.: 10.368 min
Delta R.T.: 0.000 min
Response: 2317133139
Conc: 2311.65 PPB



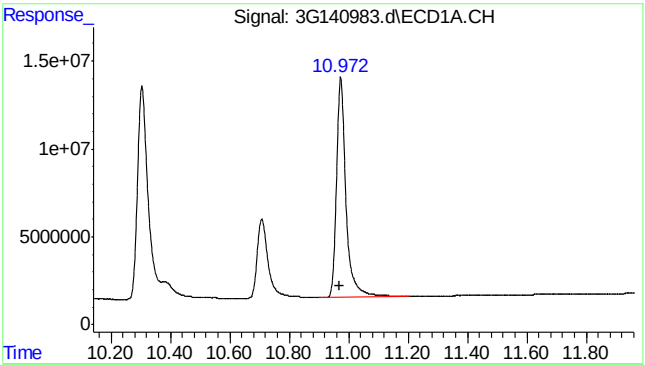
#35 AR1262-E

R.T.: 9.469 min
Delta R.T.: 0.000 min
Response: 1029619284
Conc: 1387.65 PPB m



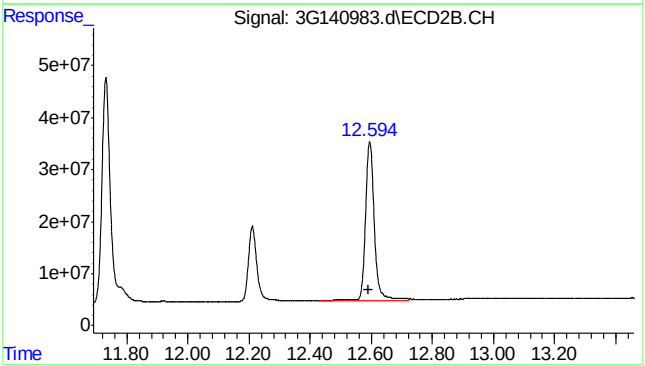
#35 AR1262-E

R.T.: 10.891 min
Delta R.T.: 0.000 min
Response: 2663803329
Conc: 2281.44 PPB m



#51 Decachlorobiphenyl

R.T.: 10.973 min
Delta R.T.: 0.003 min
Response: 274972180
Conc: 64.41 ppb



#51 Decachlorobiphenyl

R.T.: 12.595 min
Delta R.T.: 0.004 min
Response: 622560027
Conc: 85.55 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/25/24 12:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140984.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 19:04 pm
Operator : mahalial
Sample : ic5160-1000 (ar1242)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:56:49 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.465	4.078	284.2E6	646.9E6	48.349	76.971 #
	Spiked Amount 40.000			Recovery	= 120.87%	192.43%	
51) S	Decachlor...	10.975	12.597	256.6E6	564.6E6	60.097	77.586 #
	Spiked Amount 40.000			Recovery	= 150.24%	193.96%	
	Target Compounds						
12)	AR1242-A	4.324	5.326	195.7E6	451.6E6	1255.302	1922.433 #
13)	AR1242-B	4.925	5.980	399.6E6	1009.3E6	1156.430m	1969.735m#
14)	AR1242-C	5.099	6.171	170.5E6	394.6E6	1183.463	1993.489 #
15)	AR1242-D	5.640	6.841	185.2E6	313.7E6	1708.979m	2012.224
16)	AR1242-E	6.252	7.446	147.6E6	386.8E6	1273.620	2017.015 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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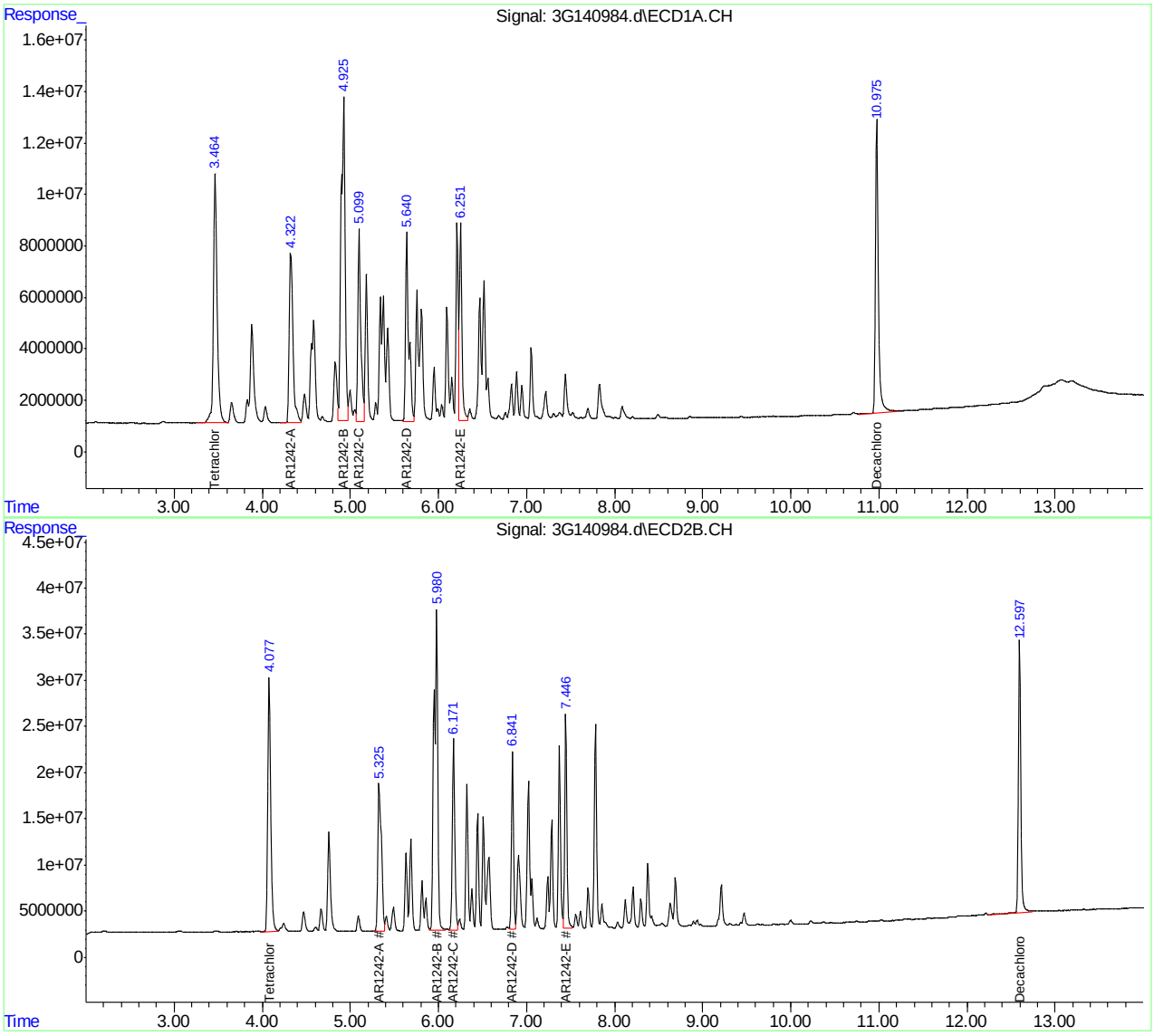
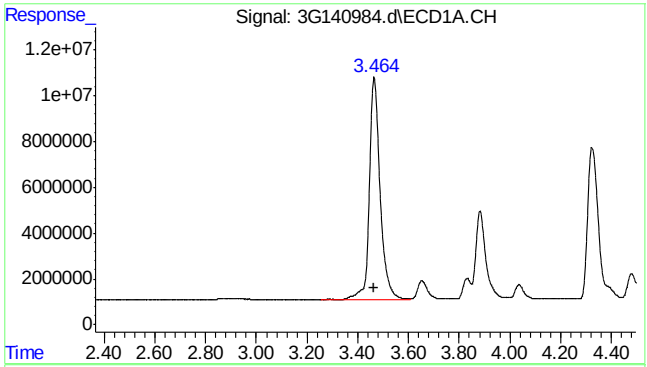
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140984.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 19:04 pm
Operator : mahalial
Sample : ic5160-1000 (ar1242)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:56:49 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

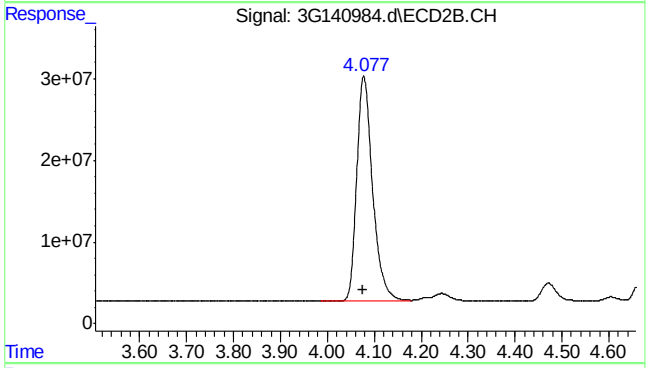
Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





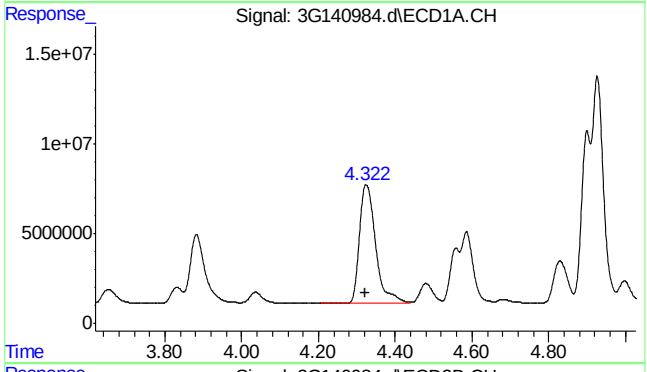
#1 Tetrachloro-m-xylene

R.T.: 3.465 min
Delta R.T.: 0.000 min
Response: 284153667
Conc: 48.35 ppb



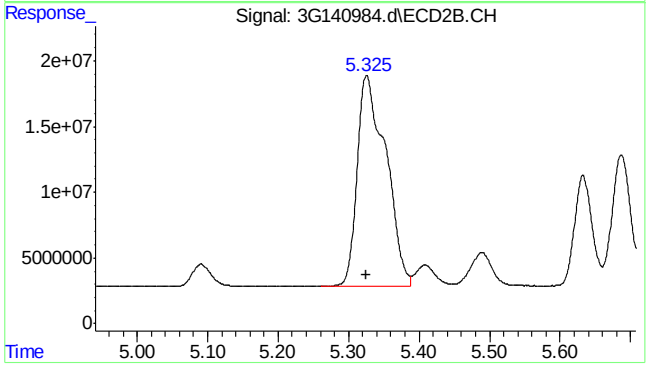
#1 Tetrachloro-m-xylene

R.T.: 4.078 min
Delta R.T.: 0.000 min
Response: 646858258
Conc: 76.97 ppb



#12 AR1242-A

R.T.: 4.324 min
Delta R.T.: 0.002 min
Response: 195700031
Conc: 1255.30 PPB



#12 AR1242-A

R.T.: 5.326 min
Delta R.T.: 0.000 min
Response: 451561120
Conc: 1922.43 PPB

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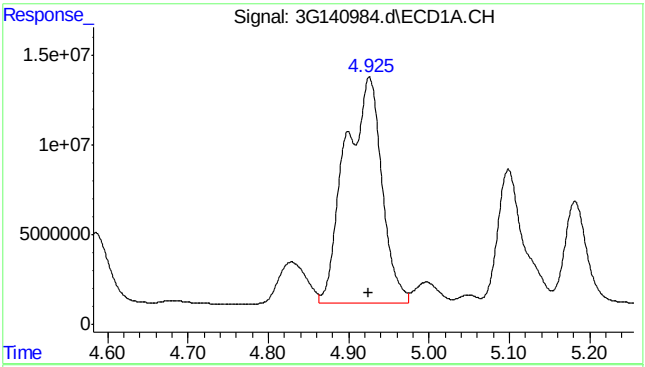
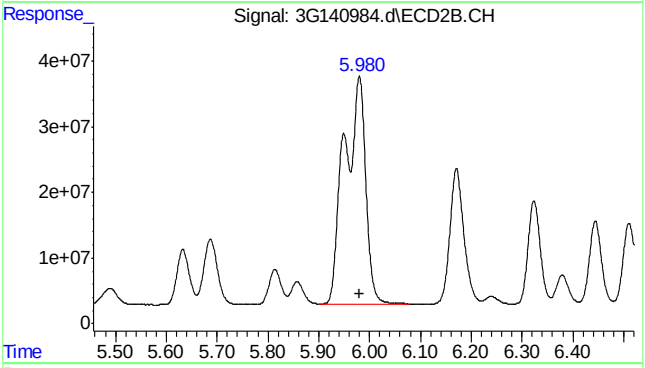


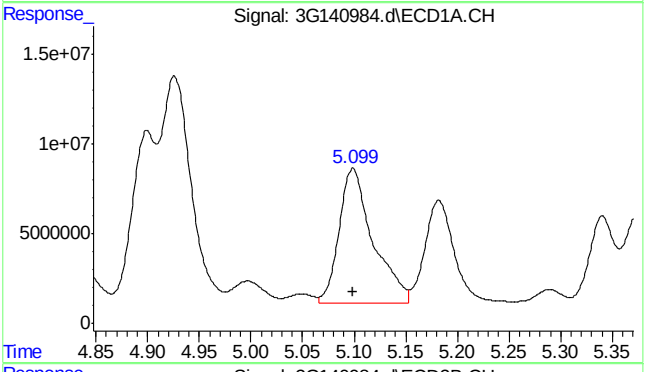
#13 AR1242-B

R.T.: 4.925 min
Delta R.T.: 0.000 min
Response: 399596591
Conc: 1156.43 PPB m



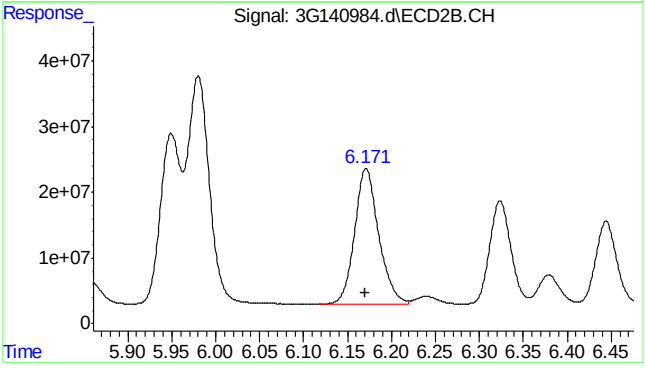
#13 AR1242-B

R.T.: 5.980 min
Delta R.T.: 0.000 min
Response: 1009325081
Conc: 1969.73 PPB m



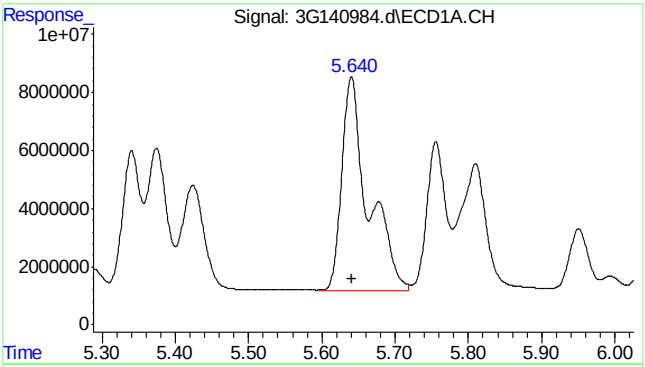
#14 AR1242-C

R.T.: 5.099 min
Delta R.T.: 0.000 min
Response: 170519259
Conc: 1183.46 PPB



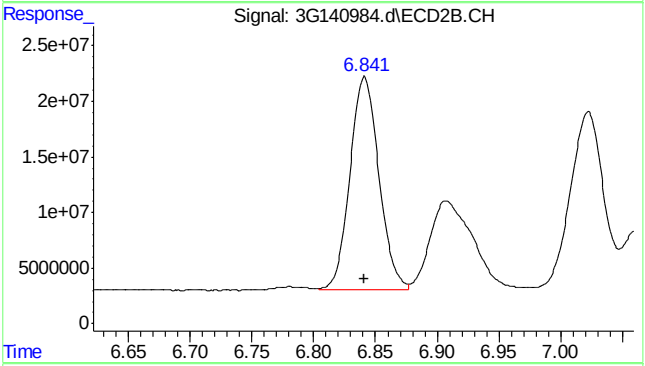
#14 AR1242-C

R.T.: 6.171 min
Delta R.T.: 0.000 min
Response: 394580292
Conc: 1993.49 PPB



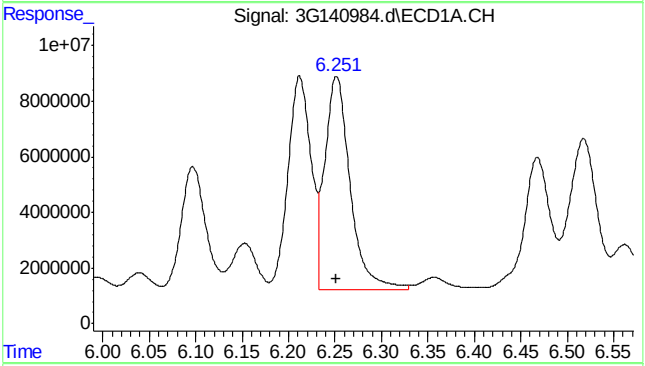
#15 AR1242-D

R.T.: 5.640 min
Delta R.T.: 0.000 min
Response: 185208097
Conc: 1708.98 PPB m



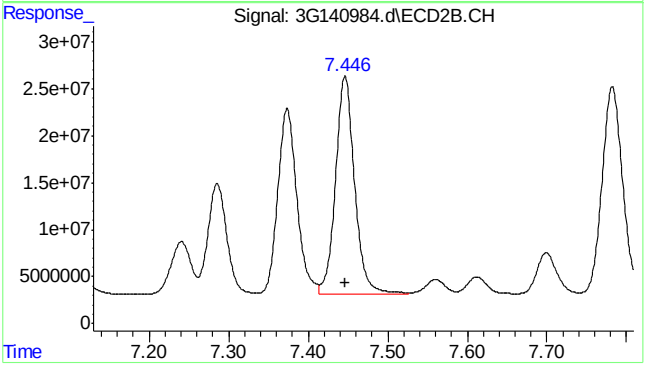
#15 AR1242-D

R.T.: 6.841 min
Delta R.T.: 0.000 min
Response: 313664429
Conc: 2012.22 PPB



#16 AR1242-E

R.T.: 6.252 min
Delta R.T.: 0.000 min
Response: 147553185
Conc: 1273.62 PPB



#16 AR1242-E

R.T.: 7.446 min
Delta R.T.: 0.000 min
Response: 386833734
Conc: 2017.01 PPB

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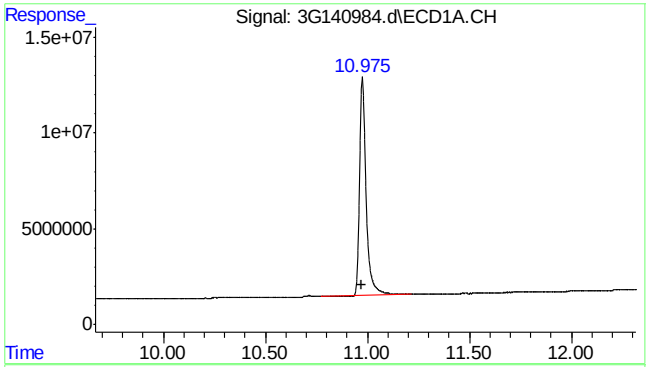
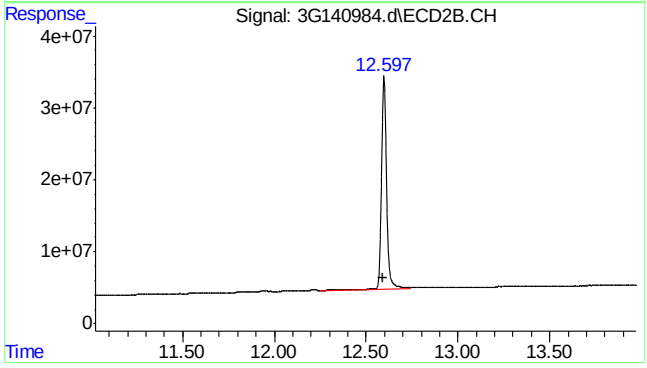


#51 Decachlorobiphenyl

R.T.: 10.975 min
Delta R.T.: 0.005 min
Response: 256554640
Conc: 60.10 ppb



#51 Decachlorobiphenyl

R.T.: 12.597 min
Delta R.T.: 0.007 min
Response: 564577323
Conc: 77.59 ppb

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140985.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 19:21 pm
Operator : mahalial
Sample : ic5160-1000 (ar1268)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:58:14 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:57:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.465	4.077	297.9E6	704.3E6	50.688	83.800 #
	Spiked Amount 40.000			Recovery	= 126.72%	209.50%	
51) S	Decachlor...	10.976	12.597	819.8E6	1765.8E6	192.039	242.654 #
	Spiked Amount 40.000			Recovery	= 480.10%	606.63%	
	Target Compounds						
36)	AR1268-A	9.473	10.893	890.7E6	2670.0E6	1243.372	2170.509 #
37)	AR1268-B	9.530	10.962	993.6E6	2588.4E6	1446.800	2180.855 #
38)	AR1268-C	9.802	11.338	791.7E6	2191.3E6	1400.758	2149.198 #
39)	AR1268-D	10.306	11.733	329.9E6	883.0E6	1334.002	2071.306 #
40)	AR1268-E	10.709	12.214	2566.2E6	6338.8E6	1438.187	2015.045 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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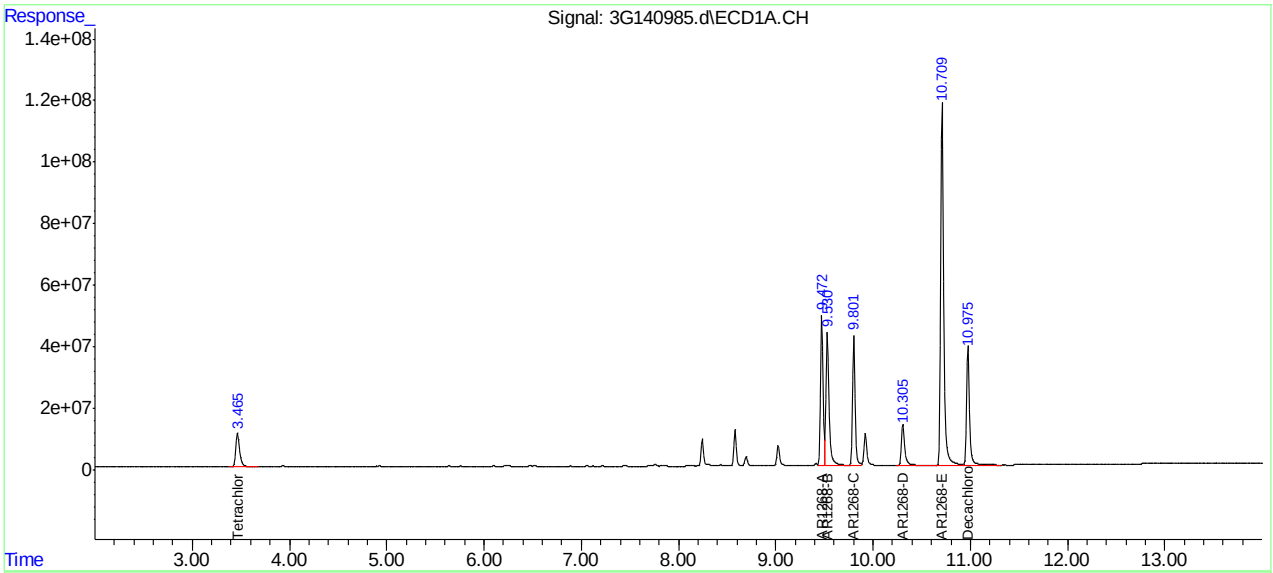
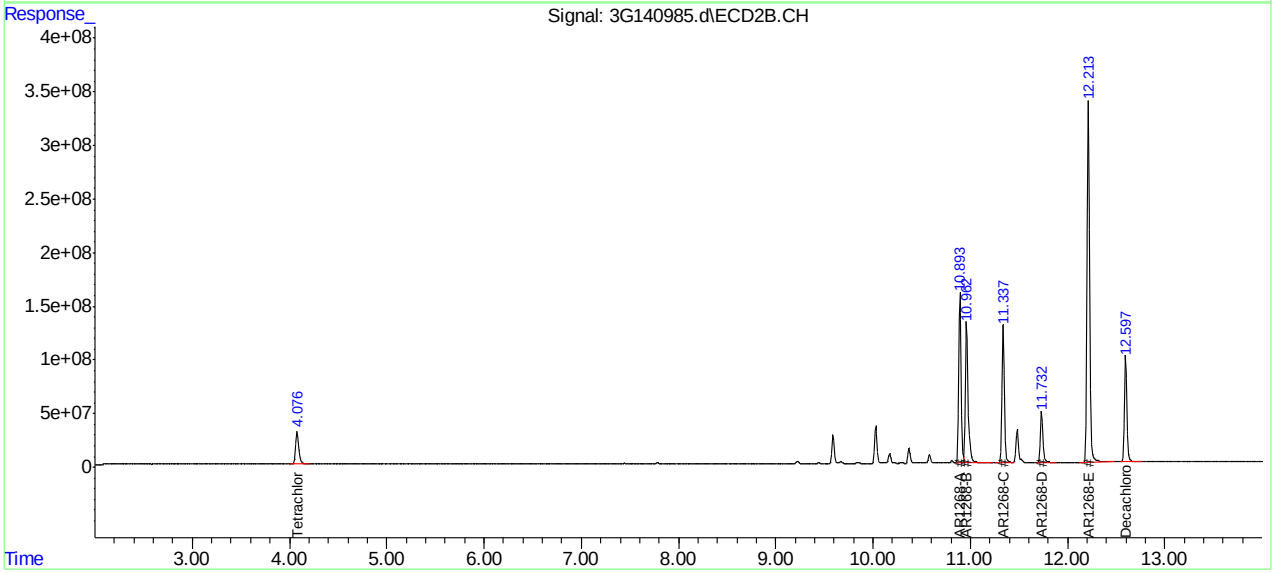
Quantitation Report (QT Reviewed)

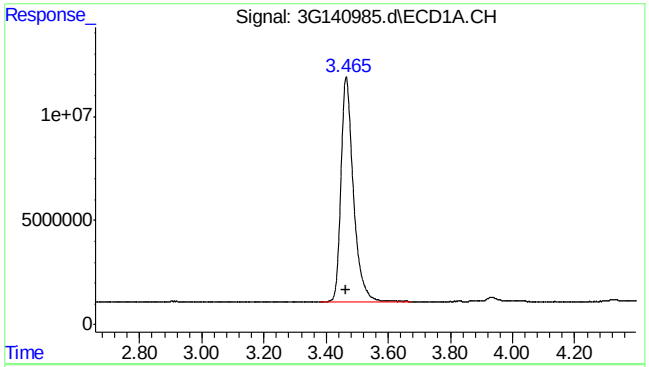
Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140985.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 19:21 pm
Operator : mahalial
Sample : ic5160-1000 (ar1268)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 06:58:14 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:57:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

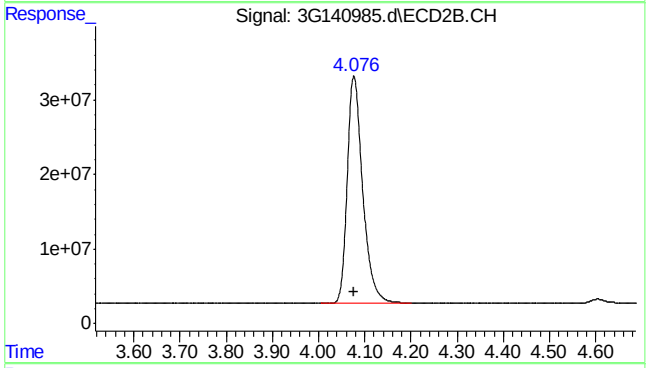






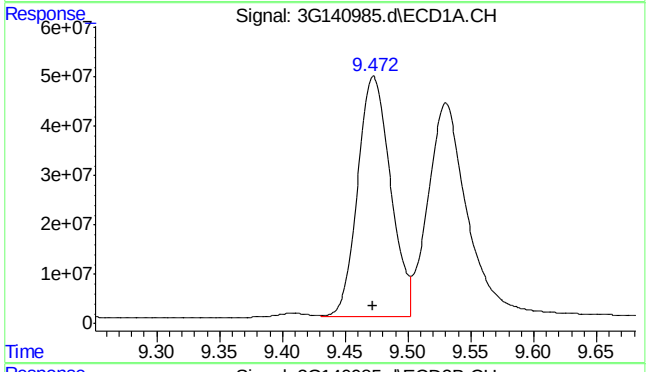
#1 Tetrachloro-m-xylene

R.T.: 3.465 min
Delta R.T.: 0.000 min
Response: 297906144
Conc: 50.69 ppb



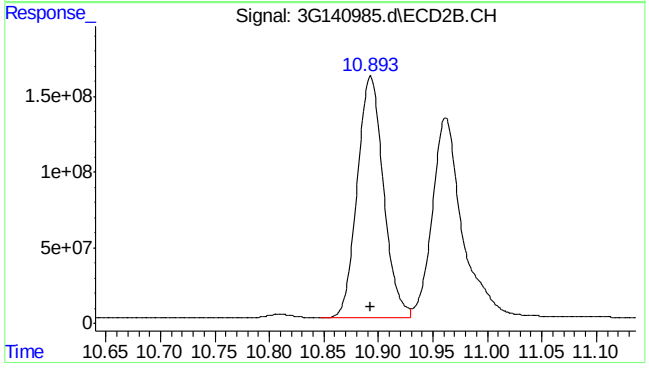
#1 Tetrachloro-m-xylene

R.T.: 4.077 min
Delta R.T.: 0.000 min
Response: 704254392
Conc: 83.80 ppb



#36 AR1268-A

R.T.: 9.473 min
Delta R.T.: 0.000 min
Response: 890738545
Conc: 1243.37 PPB



#36 AR1268-A

R.T.: 10.893 min
Delta R.T.: 0.000 min
Response: 2670000902
Conc: 2170.51 PPB

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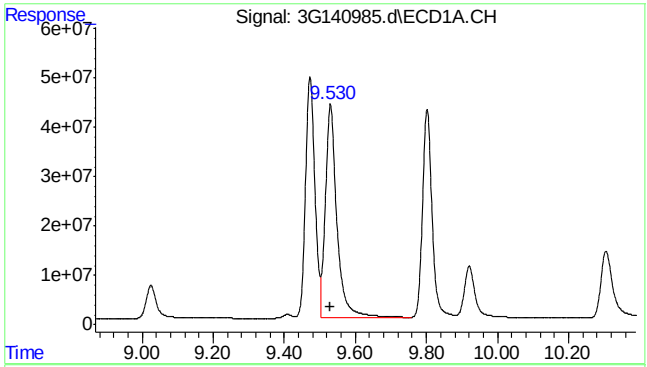
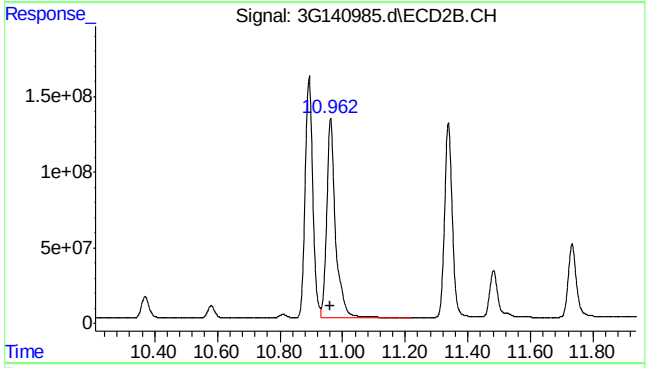


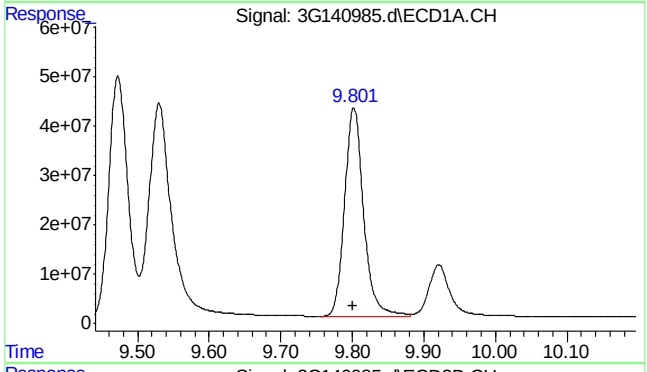
#37 AR1268-B

R.T.: 9.530 min
Delta R.T.: 0.000 min
Response: 993606327
Conc: 1446.80 PPB



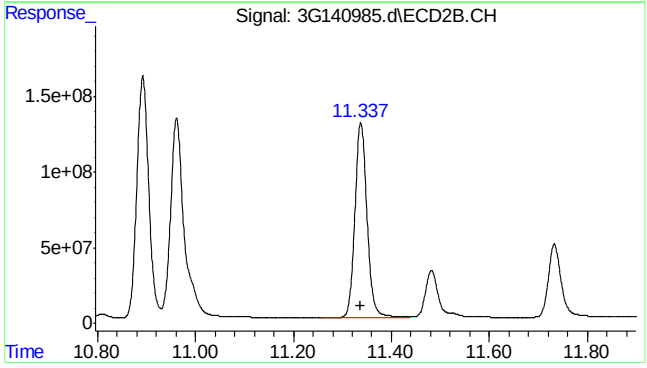
#37 AR1268-B

R.T.: 10.962 min
Delta R.T.: 0.000 min
Response: 2588375597
Conc: 2180.86 PPB



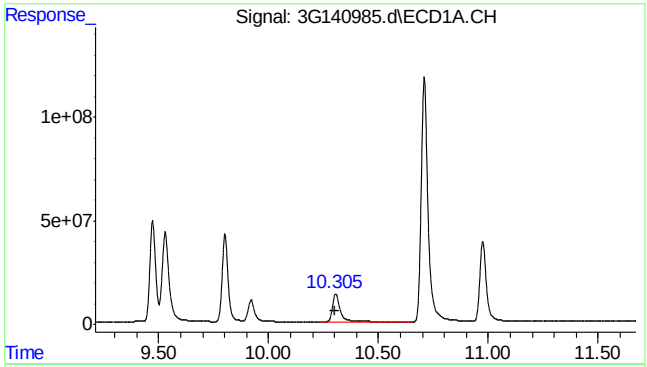
#38 AR1268-C

R.T.: 9.802 min
Delta R.T.: 0.000 min
Response: 791719181
Conc: 1400.76 PPB



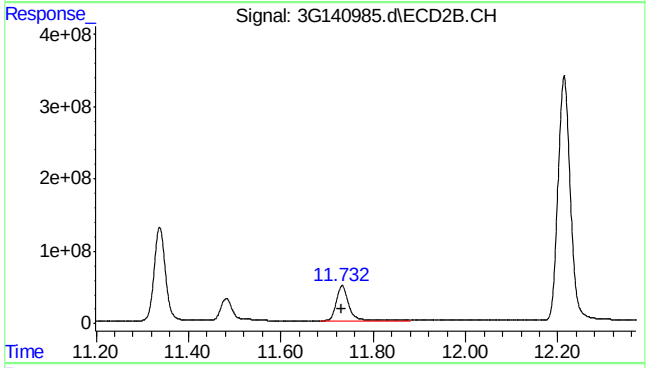
#38 AR1268-C

R.T.: 11.338 min
Delta R.T.: 0.000 min
Response: 2191333696
Conc: 2149.20 PPB



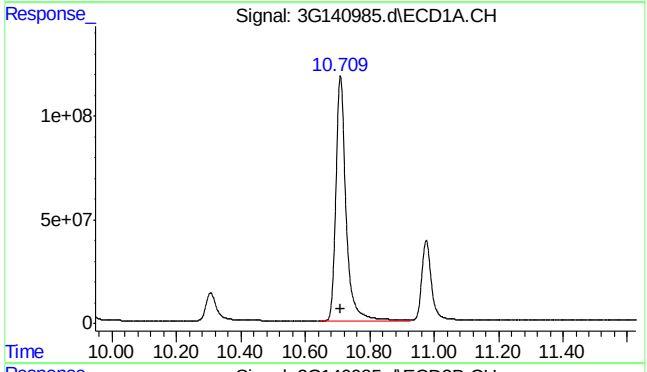
#39 AR1268-D

R.T.: 10.306 min
Delta R.T.: 0.000 min
Response: 329922808
Conc: 1334.00 PPB



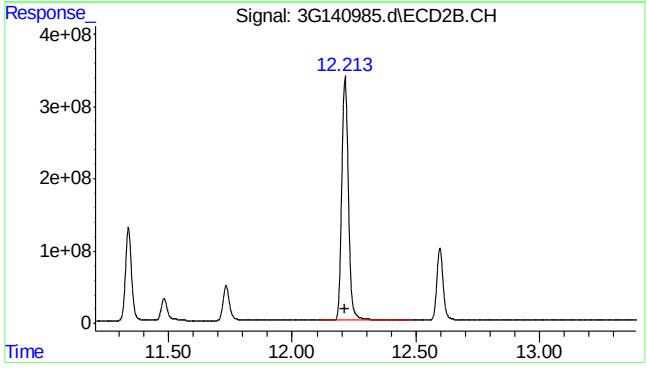
#39 AR1268-D

R.T.: 11.733 min
Delta R.T.: 0.000 min
Response: 883026145
Conc: 2071.31 PPB



#40 AR1268-E

R.T.: 10.709 min
Delta R.T.: 0.000 min
Response: 2566180577
Conc: 1438.19 PPB



#40 AR1268-E

R.T.: 12.214 min
Delta R.T.: 0.000 min
Response: 6338751842
Conc: 2015.05 PPB

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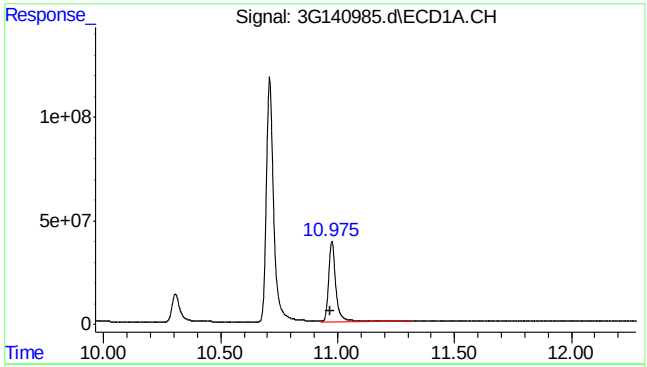
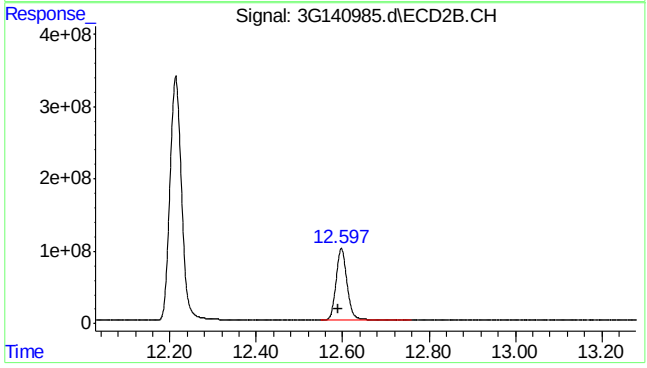


#51 Decachlorobiphenyl

R.T.: 10.976 min
Delta R.T.: 0.005 min
Response: 819816615
Conc: 192.04 ppb



#51 Decachlorobiphenyl

R.T.: 12.597 min
Delta R.T.: 0.007 min
Response: 1765753829
Conc: 242.65 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/25/24 12:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140986.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 19:38 pm
Operator : mahalial
Sample : ic5160-1000 (ar1248)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 07:00:09 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:59:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.465	4.077	260.9E6	615.5E6	44.392	73.245 #
	Spiked Amount 40.000			Recovery	= 110.98%	183.11%	
51) S	Decachlor...	10.979	12.598	245.2E6	550.9E6	57.441	75.711 #
	Spiked Amount 40.000			Recovery	= 143.60%	189.28%	
	Target Compounds						
17)	AR1248-A	4.322	5.325	93535425	222.5E6	1281.391	2108.497 #
18)	AR1248-B	4.927	5.978	252.0E6	645.7E6	1232.378m	2140.440m#
19)	AR1248-C	5.341	6.444	145.1E6	376.7E6	1239.118	2141.791 #
20)	AR1248-D	5.641	6.841	209.0E6	507.8E6	1286.513	2148.761 #
21)	AR1248-E	5.757	7.022	147.1E6	490.4E6	1304.085	2195.966 #
22)	AR1248-F	6.213	7.445	244.0E6	697.6E6	1390.486	2204.696 #
23)	AR1248-G	6.517	7.782	209.3E6	685.0E6	1311.494	2231.007 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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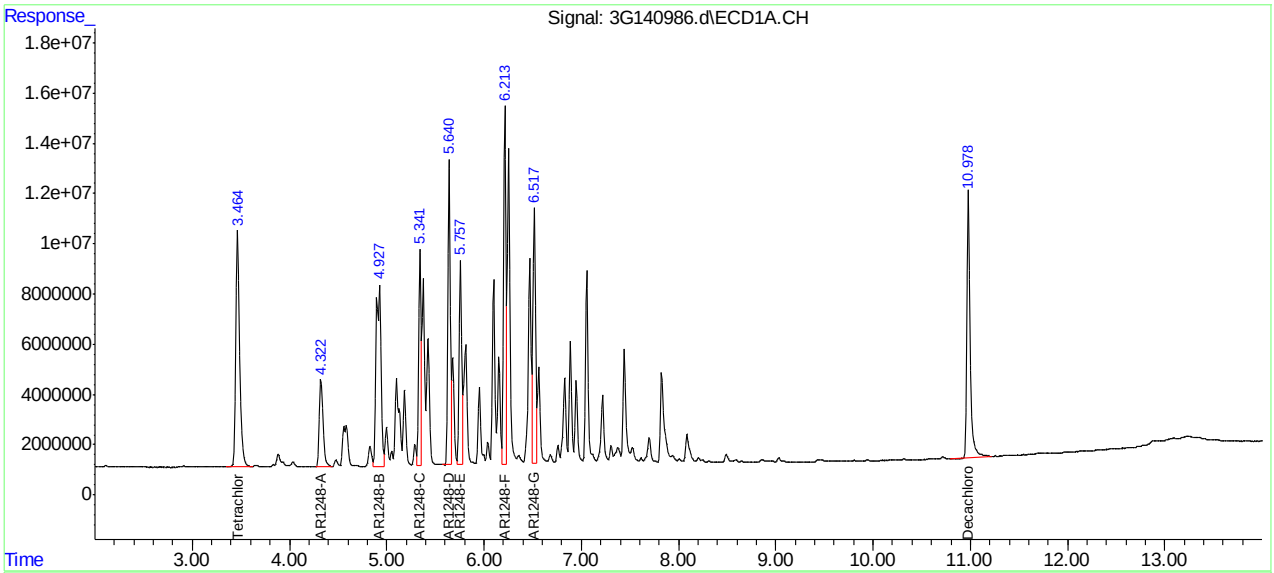
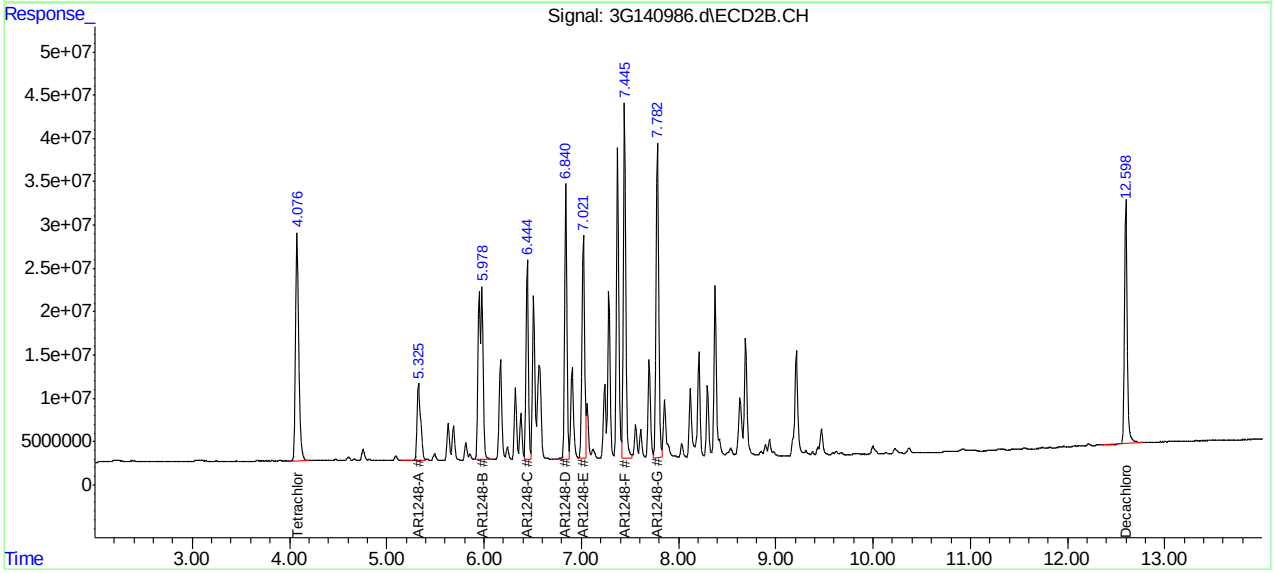
Quantitation Report (QT Reviewed)

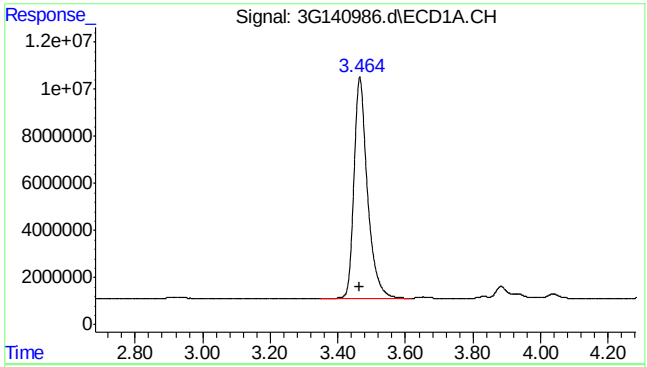
Data Path : C:\msdchem\1\data\3G5160\
Data File : 3G140986.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Apr 2024 19:38 pm
Operator : mahalial
Sample : ic5160-1000 (ar1248)
Misc : op53949,g3g5160,15.0,,,1,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 07:00:09 2024
Quant Method : C:\MSDCHEM\1\METHODS\3PCB5160.M
Quant Title :
QLast Update : Wed Apr 24 06:59:23 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

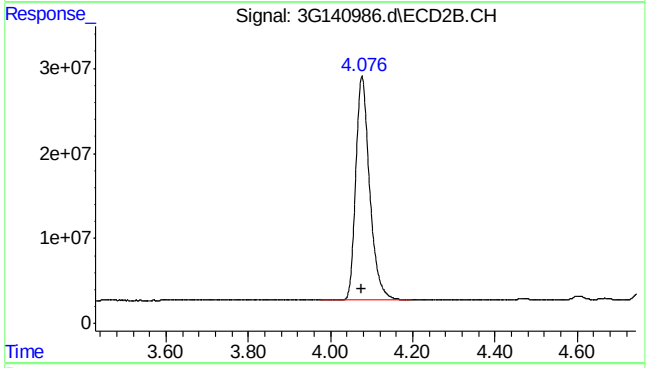






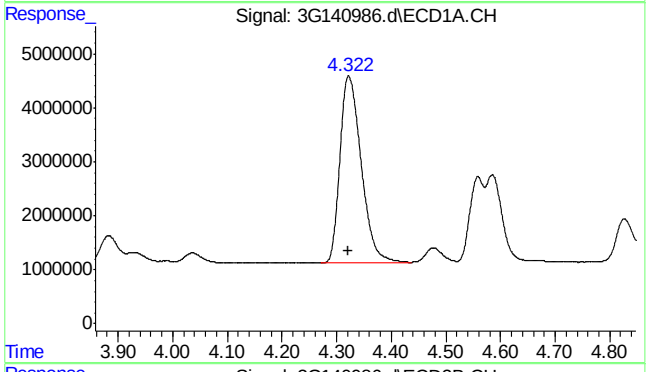
#1 Tetrachloro-m-xylene

R.T.: 3.465 min
Delta R.T.: 0.000 min
Response: 260902231
Conc: 44.39 ppb



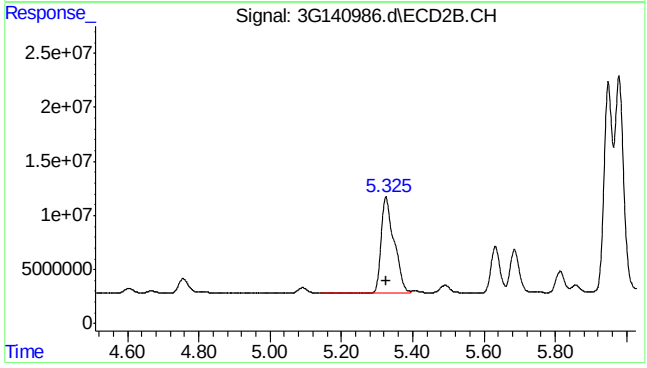
#1 Tetrachloro-m-xylene

R.T.: 4.077 min
Delta R.T.: 0.000 min
Response: 615545263
Conc: 73.24 ppb



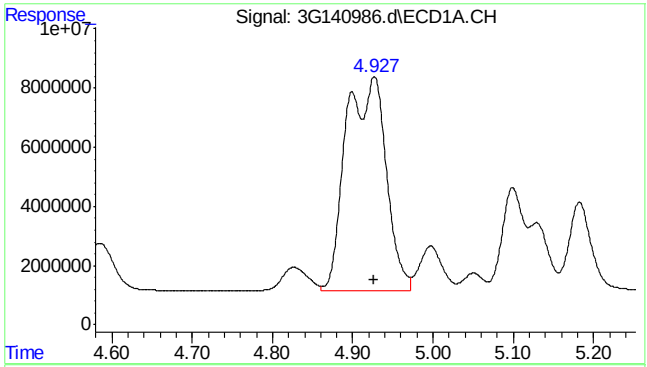
#17 AR1248-A

R.T.: 4.322 min
Delta R.T.: 0.000 min
Response: 93535425
Conc: 1281.39 PPB



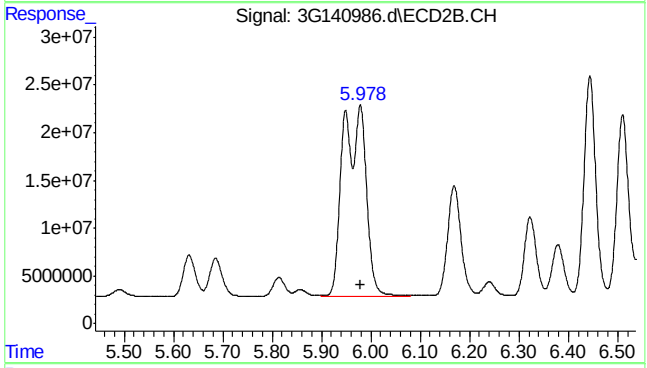
#17 AR1248-A

R.T.: 5.325 min
Delta R.T.: 0.000 min
Response: 222500979
Conc: 2108.50 PPB



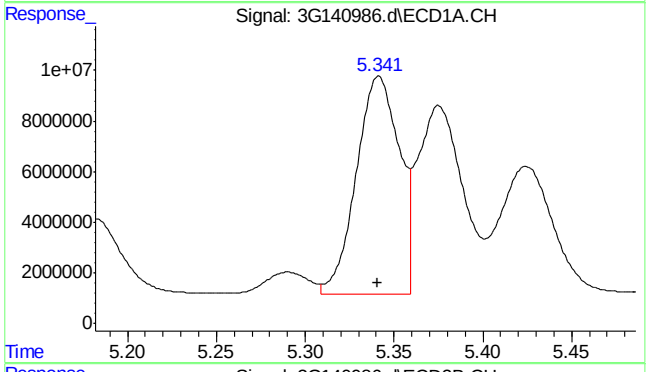
#18 AR1248-B

R.T.: 4.927 min
Delta R.T.: 0.000 min
Response: 251972435
Conc: 1232.38 PPB m



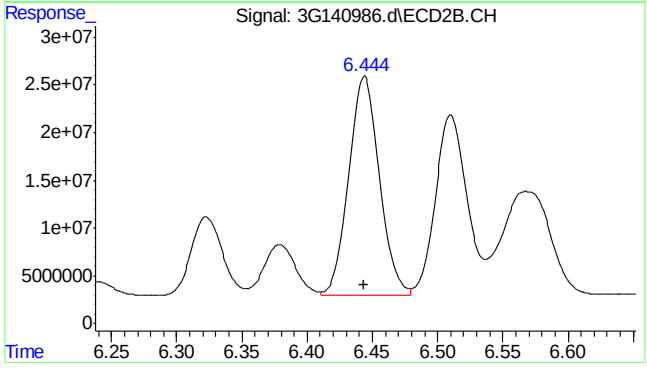
#18 AR1248-B

R.T.: 5.978 min
Delta R.T.: 0.000 min
Response: 645727370
Conc: 2140.44 PPB m



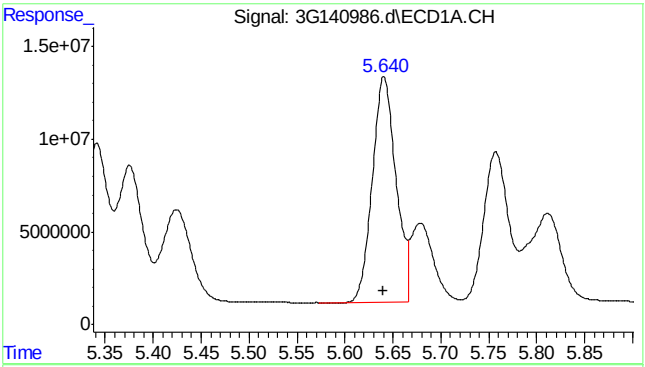
#19 AR1248-C

R.T.: 5.341 min
Delta R.T.: 0.000 min
Response: 145071543
Conc: 1239.12 PPB



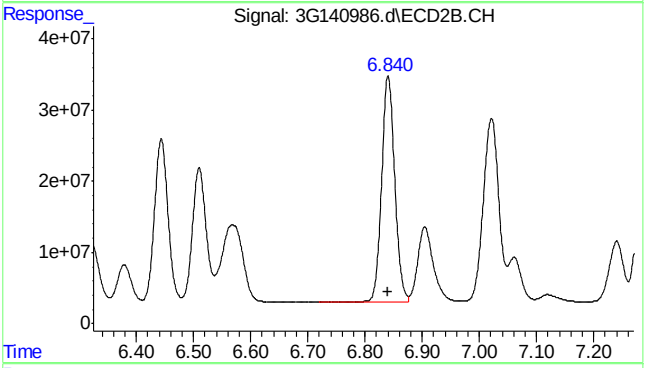
#19 AR1248-C

R.T.: 6.444 min
Delta R.T.: 0.000 min
Response: 376662260
Conc: 2141.79 PPB



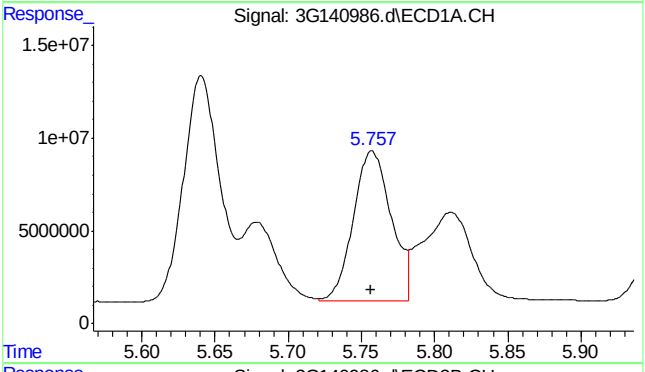
#20 AR1248-D

R.T.: 5.641 min
Delta R.T.: 0.000 min
Response: 209047602
Conc: 1286.51 PPB



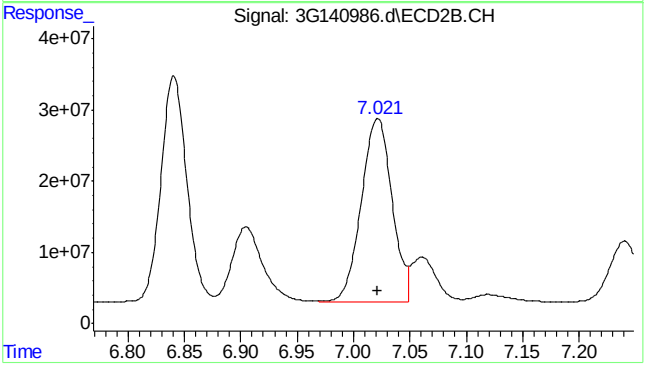
#20 AR1248-D

R.T.: 6.841 min
Delta R.T.: 0.000 min
Response: 507835636
Conc: 2148.76 PPB



#21 AR1248-E

R.T.: 5.757 min
Delta R.T.: 0.000 min
Response: 147115299
Conc: 1304.09 PPB



#21 AR1248-E

R.T.: 7.022 min
Delta R.T.: 0.000 min
Response: 490366914
Conc: 2195.97 PPB

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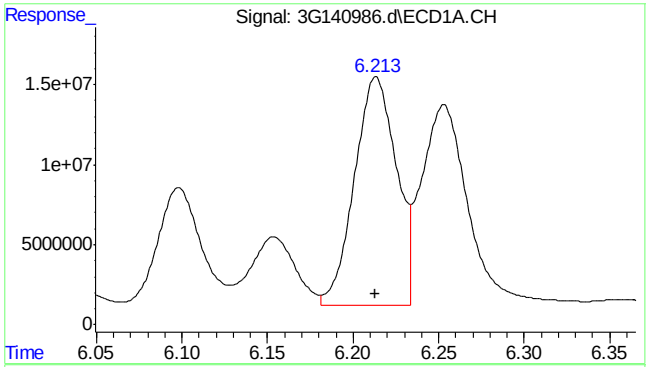
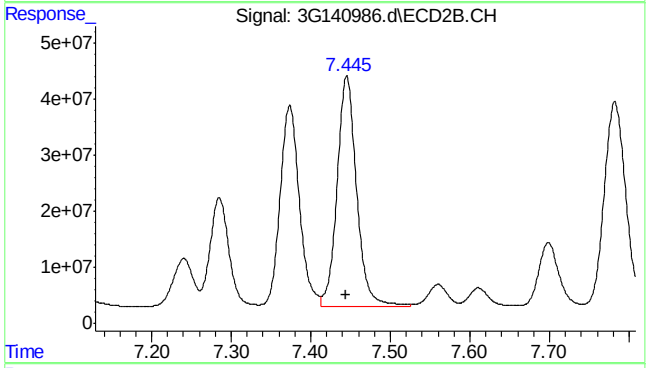


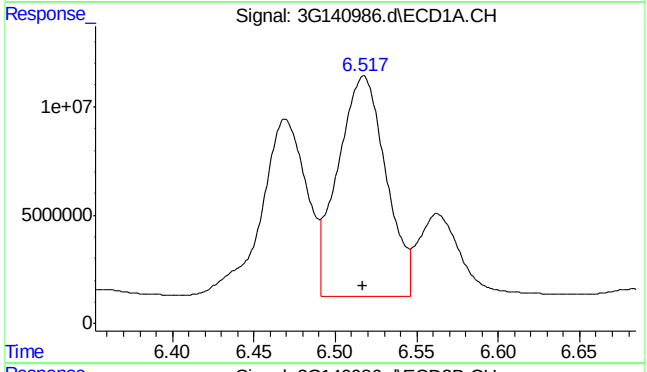
#22 AR1248-F

R.T.: 6.213 min
Delta R.T.: 0.000 min
Response: 243964371
Conc: 1390.49 PPB



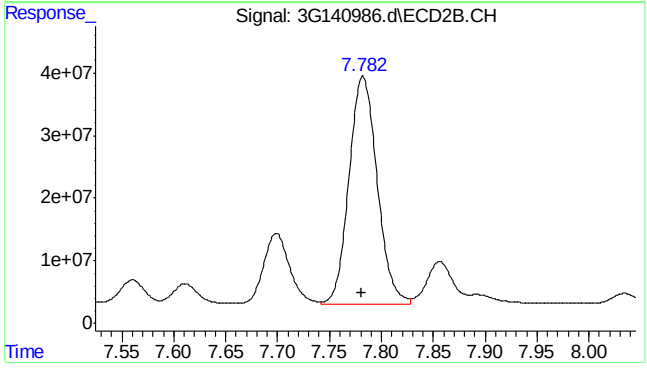
#22 AR1248-F

R.T.: 7.445 min
Delta R.T.: 0.000 min
Response: 697587940
Conc: 2204.70 PPB



#23 AR1248-G

R.T.: 6.517 min
Delta R.T.: 0.000 min
Response: 209281278
Conc: 1311.49 PPB



#23 AR1248-G

R.T.: 7.782 min
Delta R.T.: 0.000 min
Response: 684958175
Conc: 2231.01 PPB

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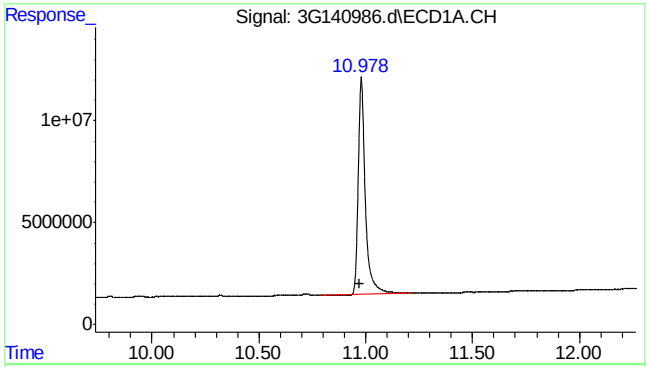
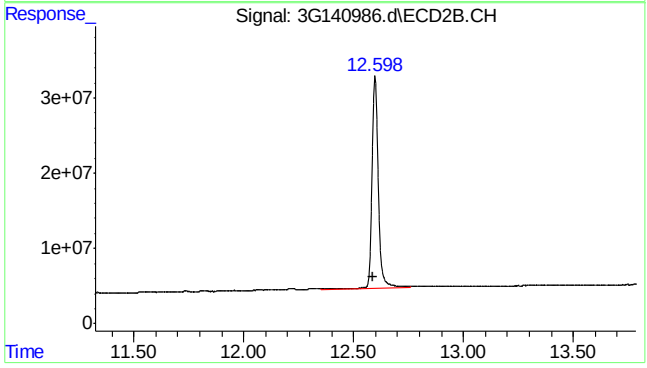


#51 Decachlorobiphenyl

R.T.: 10.979 min
Delta R.T.: 0.009 min
Response: 245214144
Conc: 57.44 ppb



#51 Decachlorobiphenyl

R.T.: 12.598 min
Delta R.T.: 0.007 min
Response: 550936242
Conc: 75.71 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Rebecca Krug
04/29/24 20:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl343\
Data File : RL15612.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 03:23 am
Operator : christp
Sample : icc343-100 (Sig #1); ic343-100 (Sig #2)
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 20:19:28 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 05:54:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.920	4.333	928.7E6	633.0E6	4.786	4.413
	Spiked Amount 40.000			Recovery	=	11.97%	11.03%
51) S	Decachlor...	9.821	10.737	594.9E6	442.8E6	5.245	4.732m
	Spiked Amount 40.000			Recovery	=	13.11%	11.83%
	Target Compounds						
41)	AR1016-A	4.220	4.785	388.0E6	271.8E6	120.570	108.100
42)	AR1016-B	4.519	5.178	788.7E6	554.4E6	125.421	107.040
43)	AR1016-C	4.920	5.688	1712.6E6	1322.7E6	122.683m	111.488m
44)	AR1016-D	5.041	5.855	682.6E6	484.7E6	122.200	112.053
45)	AR1016-E	5.441	6.516	702.3E6	385.5E6	120.686m	111.229
46)	AR1260-A	7.455	8.502	1565.8E6	1152.9E6	137.640	159.335
47)	AR1260-B	7.947	8.967	1068.9E6	897.3E6	150.412m	165.617
48)	AR1260-C	8.229	9.255	967.5E6	836.0E6	134.172	133.888
49)	AR1260-D	8.560	9.466	2310.4E6	1946.5E6	134.211	144.715
50)	AR1260-E	8.844	9.790	2309.8E6	1794.5E6	140.276m	138.636

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

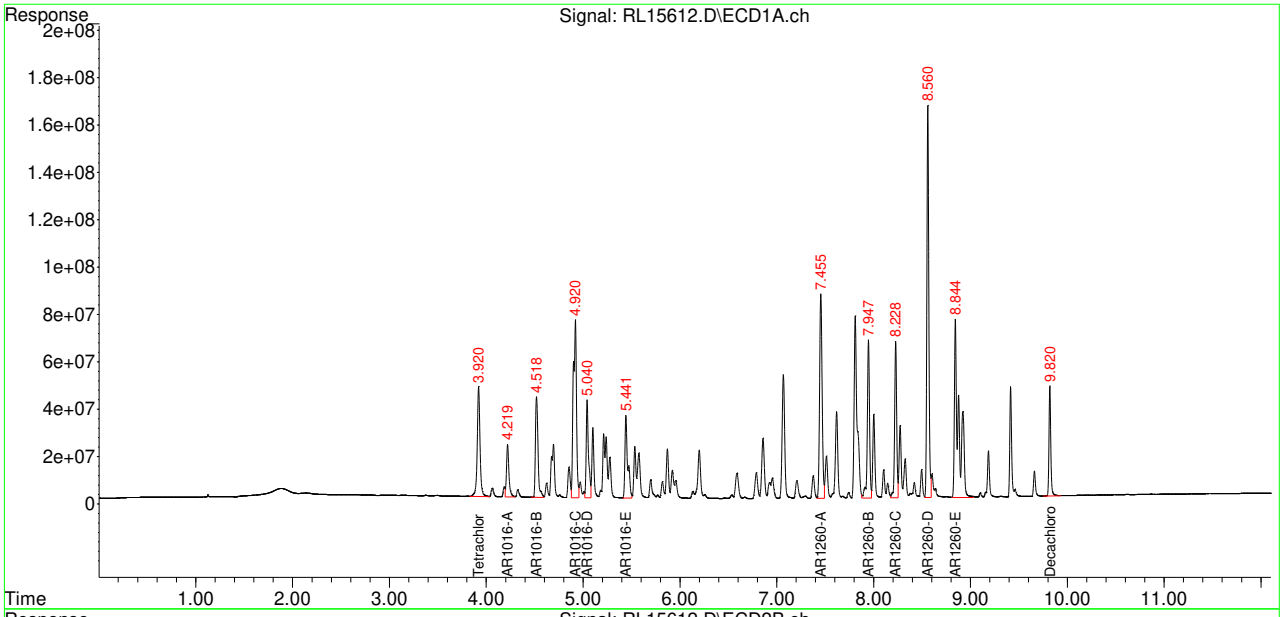
11.3.21
11

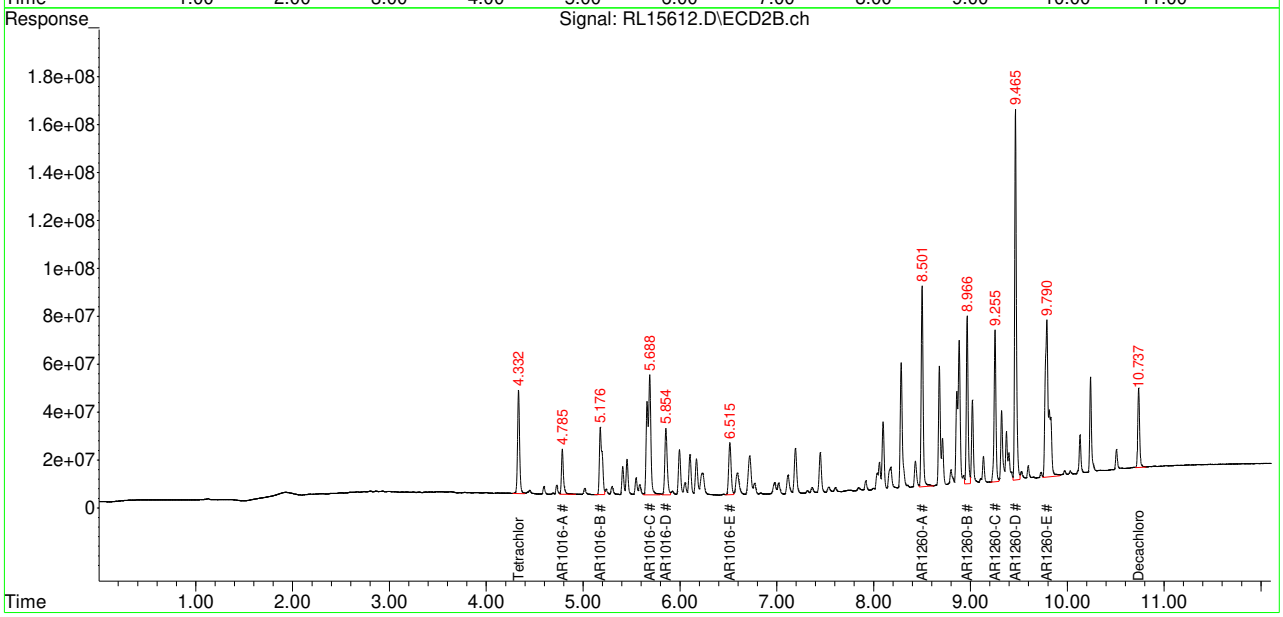
Quantitation Report (QT Reviewed)

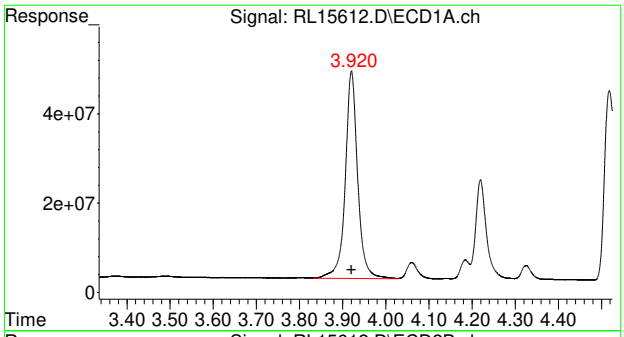
Data Path : C:\msdchem\1\data\grl343\
Data File : RL15612.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 03:23 am
Operator : christp
Sample : icc343-100 (Sig #1); ic343-100 (Sig #2)
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 20:19:28 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 05:54:14 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

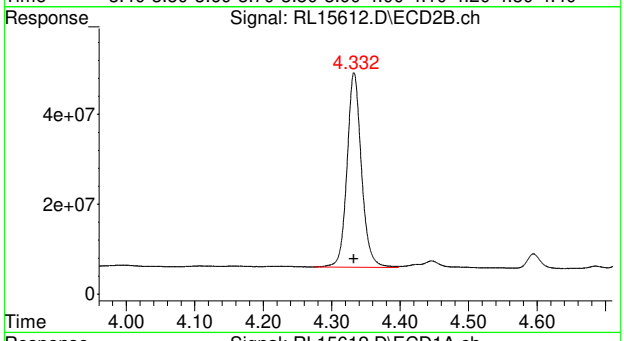






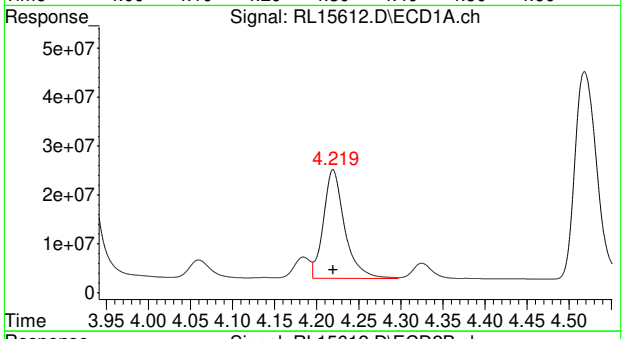
#1 Tetrachloro-m-xylene

R.T.: 3.920 min
Delta R.T.: 0.000 min
Response: 928722112
Conc: 4.79 ppb



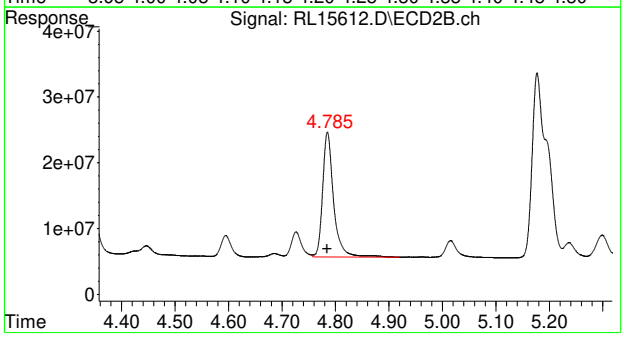
#1 Tetrachloro-m-xylene

R.T.: 4.333 min
Delta R.T.: 0.000 min
Response: 633039754
Conc: 4.41 ppb



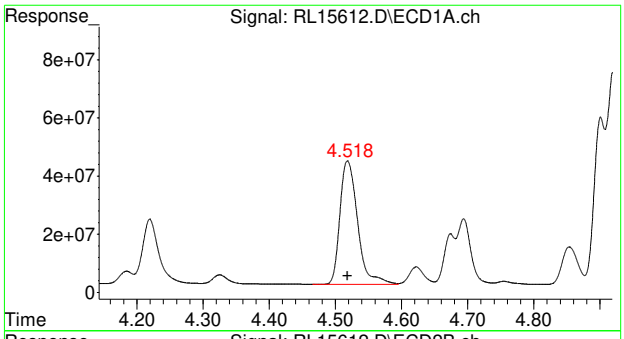
#41 AR1016-A

R.T.: 4.220 min
Delta R.T.: 0.000 min
Response: 388012025
Conc: 120.57 PPB



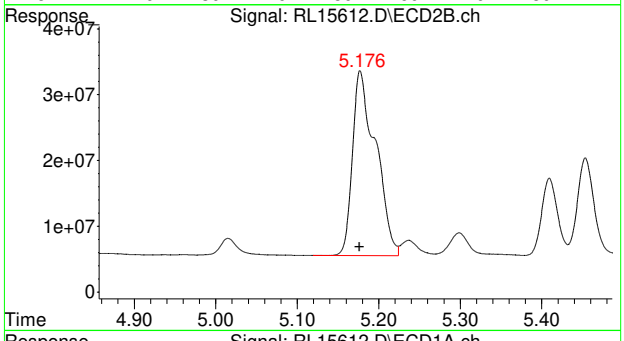
#41 AR1016-A

R.T.: 4.785 min
Delta R.T.: 0.000 min
Response: 271761769
Conc: 108.10 PPB



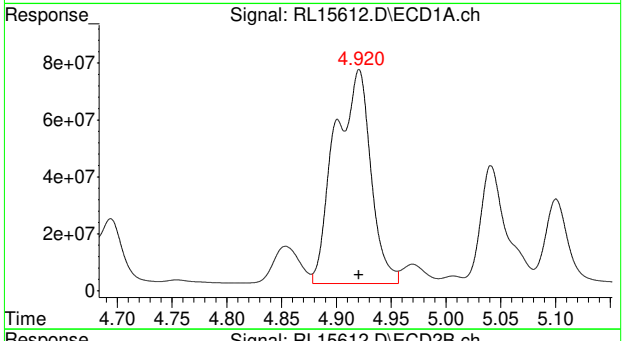
#42 AR1016-B

R.T.: 4.519 min
Delta R.T.: 0.000 min
Response: 788654452
Conc: 125.42 PPB



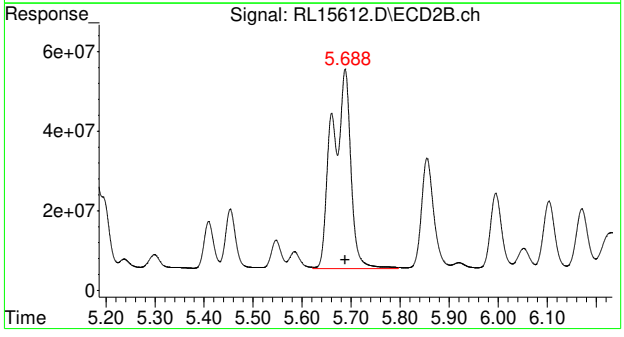
#42 AR1016-B

R.T.: 5.178 min
Delta R.T.: 0.001 min
Response: 554367804
Conc: 107.04 PPB



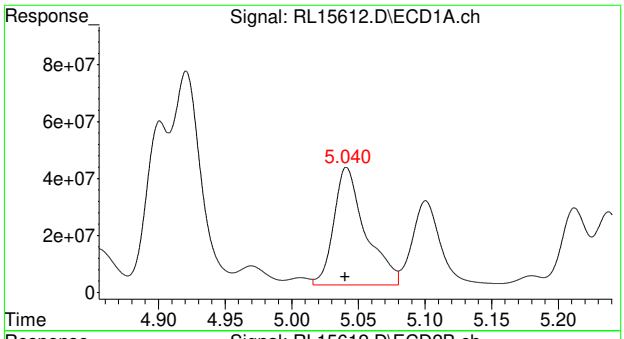
#43 AR1016-C

R.T.: 4.920 min
Delta R.T.: 0.000 min
Response: 1712622190
Conc: 122.68 PPB m



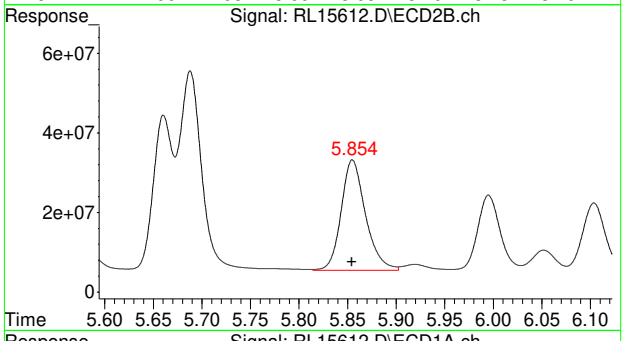
#43 AR1016-C

R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 1322694198
Conc: 111.49 PPB m



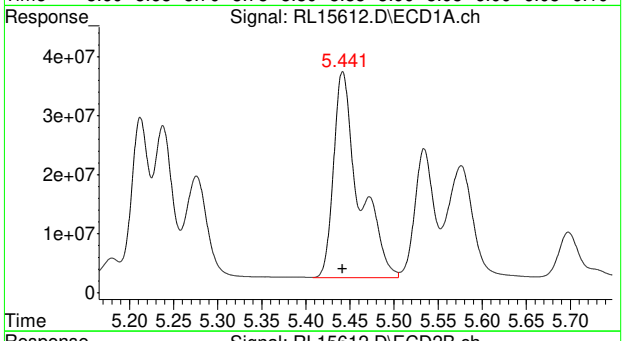
#44 AR1016-D

R.T.: 5.041 min
Delta R.T.: 0.001 min
Response: 682627947
Conc: 122.20 PPB



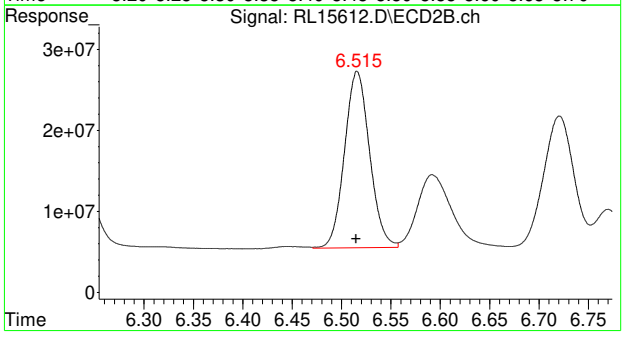
#44 AR1016-D

R.T.: 5.855 min
Delta R.T.: 0.000 min
Response: 484657223
Conc: 112.05 PPB



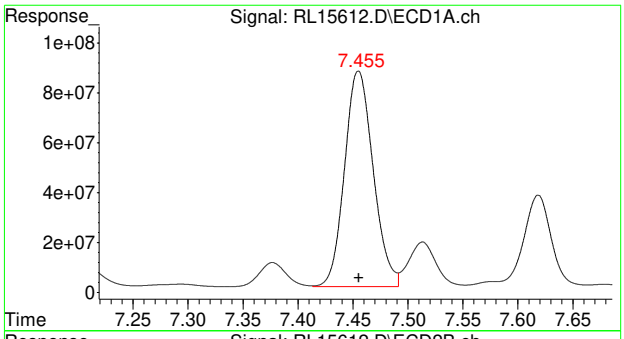
#45 AR1016-E

R.T.: 5.441 min
Delta R.T.: 0.000 min
Response: 702306184
Conc: 120.69 PPB m



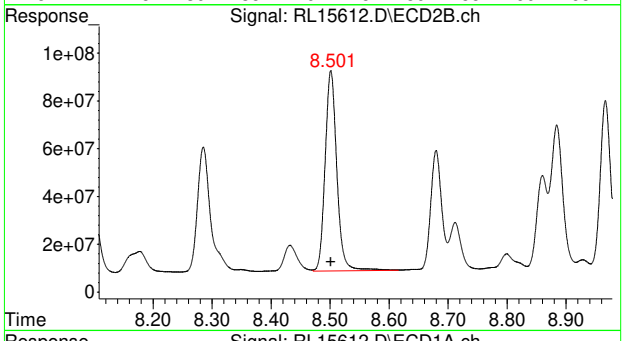
#45 AR1016-E

R.T.: 6.516 min
Delta R.T.: 0.000 min
Response: 385521520
Conc: 111.23 PPB



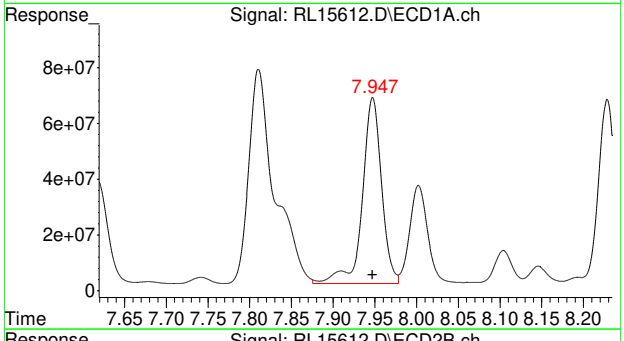
#46 AR1260-A

R.T.: 7.455 min
Delta R.T.: 0.000 min
Response: 1565802702
Conc: 137.64 PPB



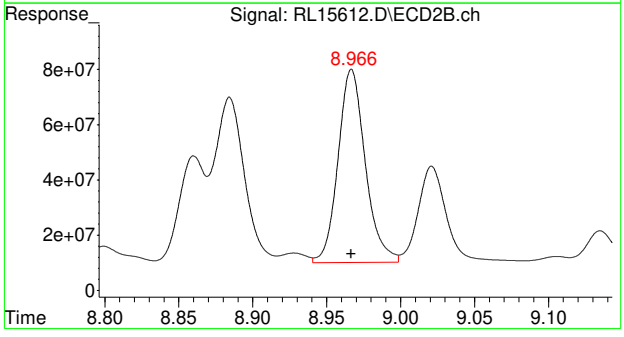
#46 AR1260-A

R.T.: 8.502 min
Delta R.T.: 0.000 min
Response: 1152879142
Conc: 159.34 PPB



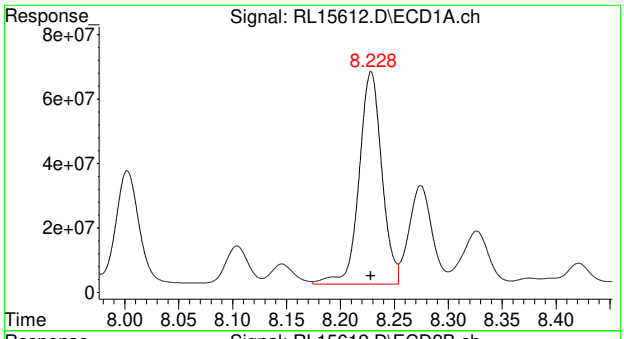
#47 AR1260-B

R.T.: 7.947 min
Delta R.T.: 0.000 min
Response: 1068948724
Conc: 150.41 PPB m



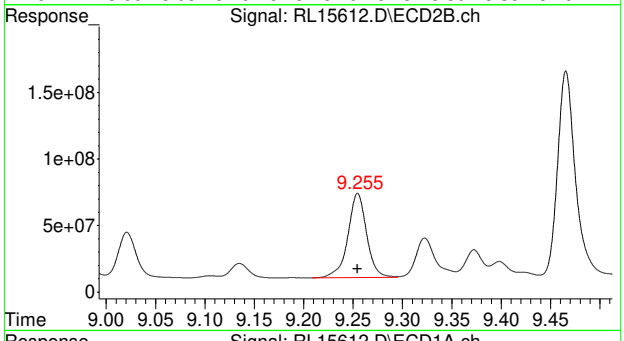
#47 AR1260-B

R.T.: 8.967 min
Delta R.T.: 0.000 min
Response: 897319310
Conc: 165.62 PPB



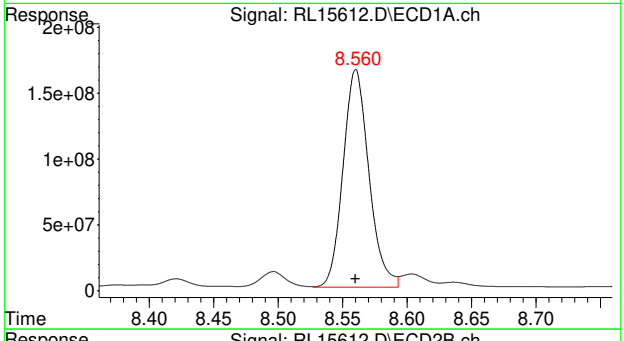
#48 AR1260-C

R.T.: 8.229 min
Delta R.T.: 0.000 min
Response: 967505744
Conc: 134.17 PPB



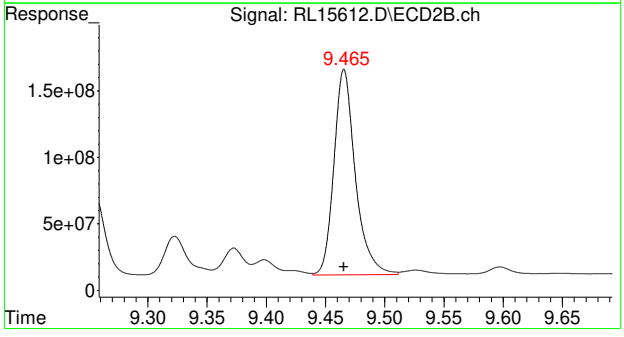
#48 AR1260-C

R.T.: 9.255 min
Delta R.T.: 0.000 min
Response: 835997557
Conc: 133.89 PPB



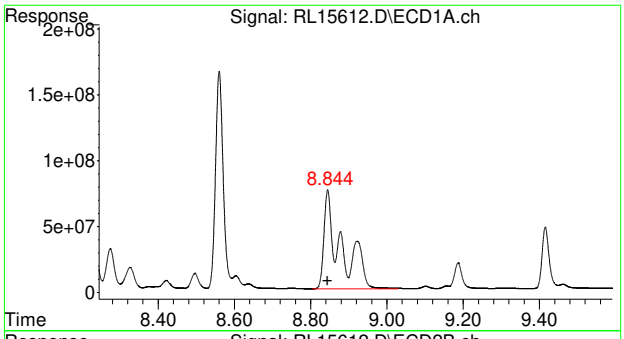
#49 AR1260-D

R.T.: 8.560 min
Delta R.T.: 0.000 min
Response: 2310352323
Conc: 134.21 PPB



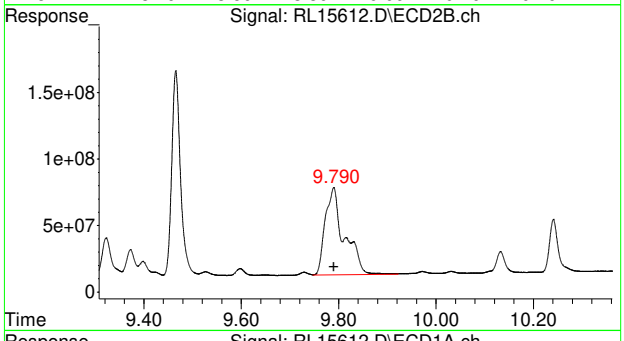
#49 AR1260-D

R.T.: 9.466 min
Delta R.T.: 0.000 min
Response: 1946497230
Conc: 144.71 PPB



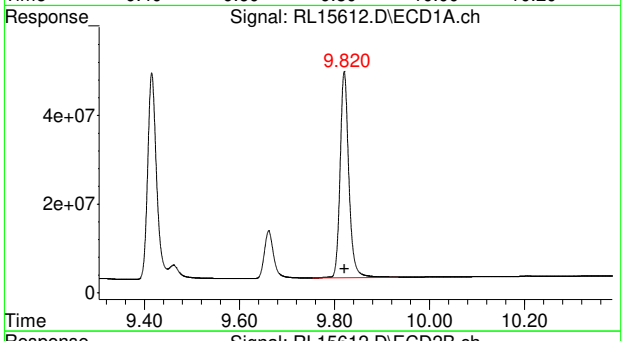
#50 AR1260-E

R.T.: 8.844 min
Delta R.T.: 0.000 min
Response: 2309833113
Conc: 140.28 PPB m



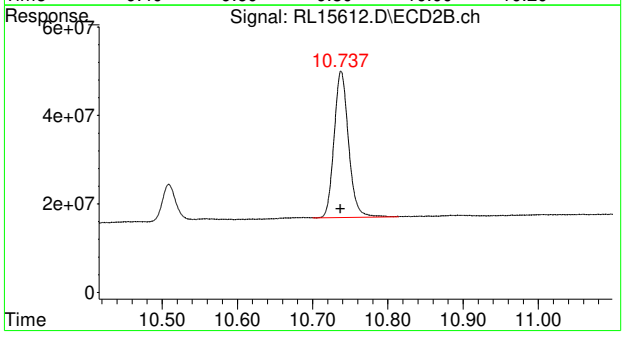
#50 AR1260-E

R.T.: 9.790 min
Delta R.T.: 0.000 min
Response: 1794500908
Conc: 138.64 PPB



#51 Decachlorobiphenyl

R.T.: 9.821 min
Delta R.T.: 0.000 min
Response: 594922563
Conc: 5.25 ppb



#51 Decachlorobiphenyl

R.T.: 10.737 min
Delta R.T.: 0.000 min
Response: 442805661
Conc: 4.73 ppb m

11.3.21
11

Manual Integrations APPROVED (compounds with "m" flag)
Rebecca Krug
04/29/24 20:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl343\
Data File : RL15619.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 05:21 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:05:44 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:05:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.921	4.333	930.7E6	609.9E6	4.796	4.252
	Spiked Amount 40.000			Recovery	=	11.99%	10.63%
51) S	Decachlor...	9.821	10.739	622.9E6	454.0E6	5.492	4.852m
	Spiked Amount 40.000			Recovery	=	13.73%	12.13%
	Target Compounds						
2)	AR1221-A	3.476	3.921	164.1E6	106.0E6	121.883	99.474
3)	AR1221-B	4.061	4.595	231.7E6	157.9E6	125.559	108.588
4)	AR1221-C	4.220	4.785	626.2E6	435.1E6	137.742	123.547
5)	AR1221-D	4.519	5.237f	113.1E6	119.1E6	100.923m	92.793m
6)	AR1221-E	4.901	5.687	146.5E6	81984449	119.051	80.063m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

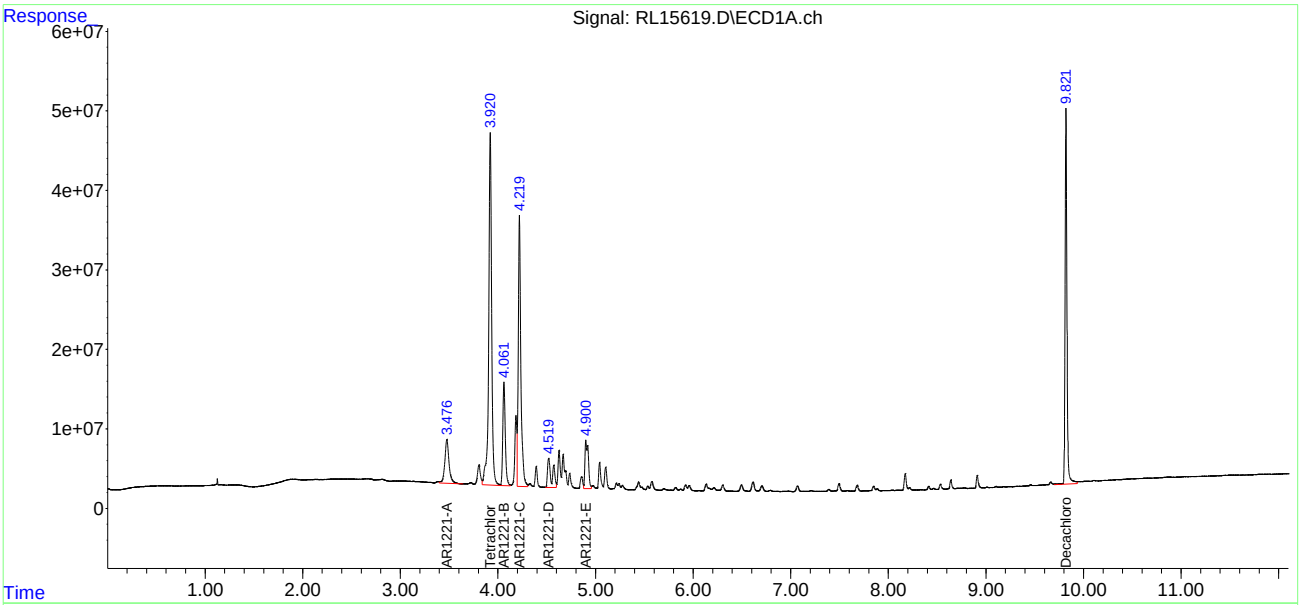
11.3.22
11

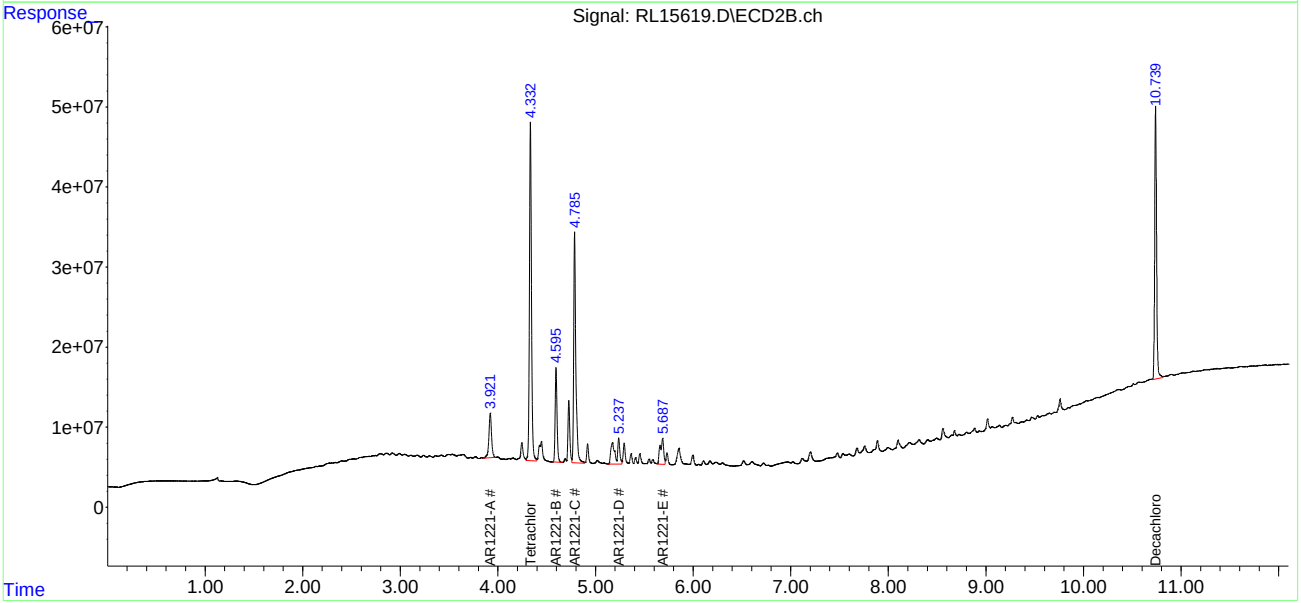
Quantitation Report (QT Reviewed)

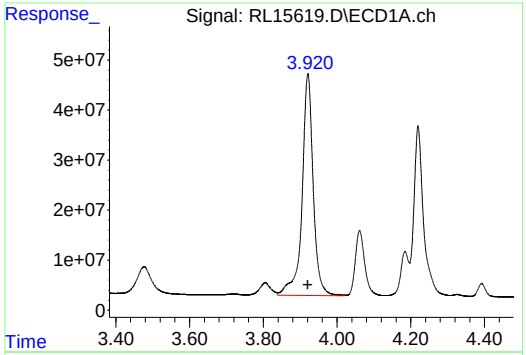
Data Path : C:\msdchem\1\data\grl343\
Data File : RL15619.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 05:21 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:05:44 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:05:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

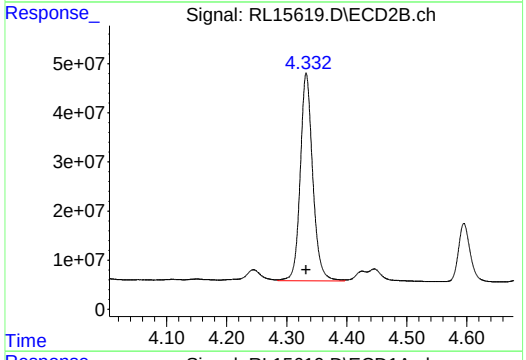






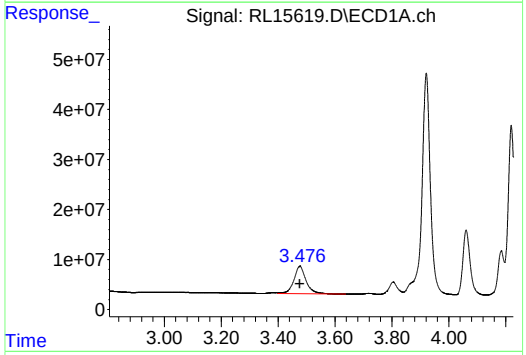
#1 Tetrachloro-m-xylene

R.T.: 3.921 min
Delta R.T.: 0.000 min
Response: 930710950
Conc: 4.80 ppb



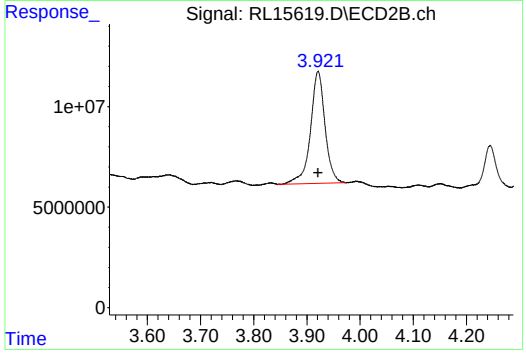
#1 Tetrachloro-m-xylene

R.T.: 4.333 min
Delta R.T.: 0.000 min
Response: 609944500
Conc: 4.25 ppb



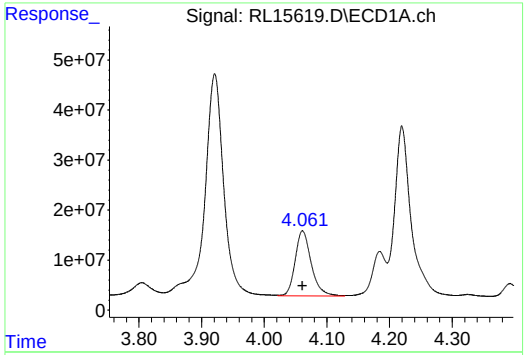
#2 AR1221-A

R.T.: 3.476 min
Delta R.T.: 0.000 min
Response: 164112928
Conc: 121.88



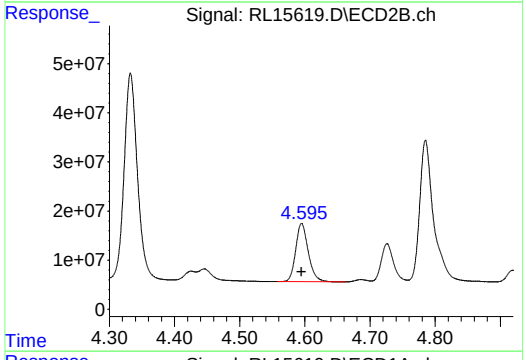
#2 AR1221-A

R.T.: 3.921 min
Delta R.T.: 0.000 min
Response: 105979217
Conc: 99.47



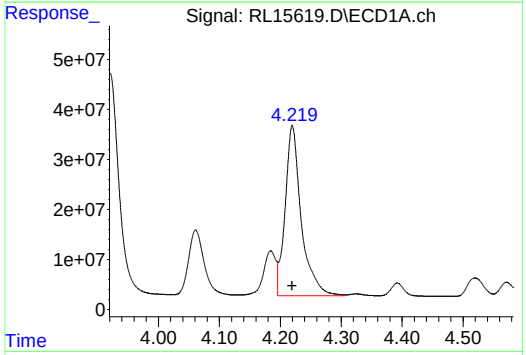
#3 AR1221-B

R.T.: 4.061 min
Delta R.T.: 0.000 min
Response: 231717067
Conc: 125.56 PPB



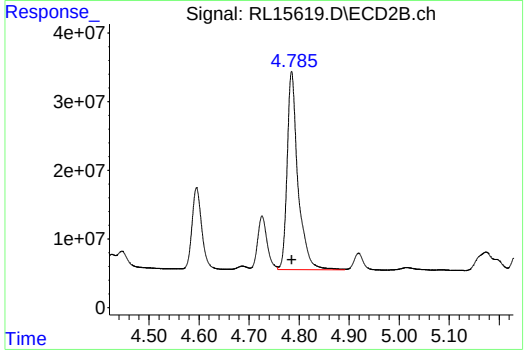
#3 AR1221-B

R.T.: 4.595 min
Delta R.T.: 0.000 min
Response: 157901314
Conc: 108.59 PPB



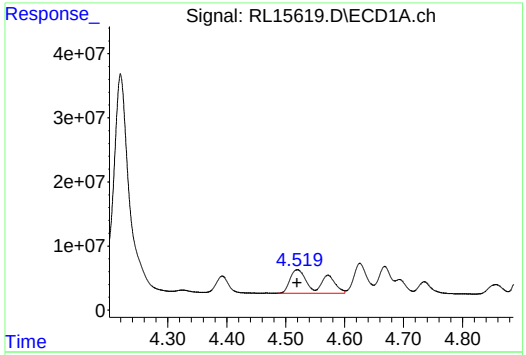
#4 AR1221-C

R.T.: 4.220 min
Delta R.T.: 0.000 min
Response: 626168922
Conc: 137.74 PPB



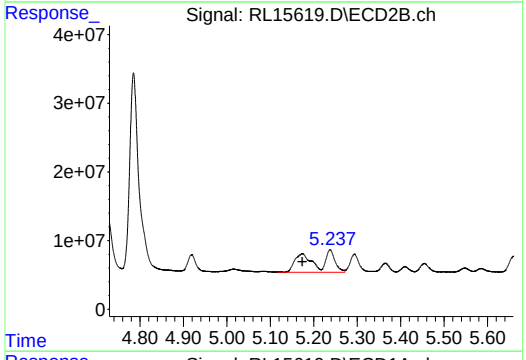
#4 AR1221-C

R.T.: 4.785 min
Delta R.T.: 0.000 min
Response: 435111711
Conc: 123.55 PPB



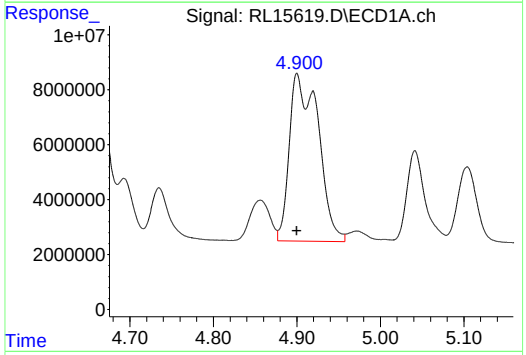
#5 AR1221-D

R.T.: 4.519 min
Delta R.T.: 0.000 min
Response: 113124482
Conc: 100.92 PPB m



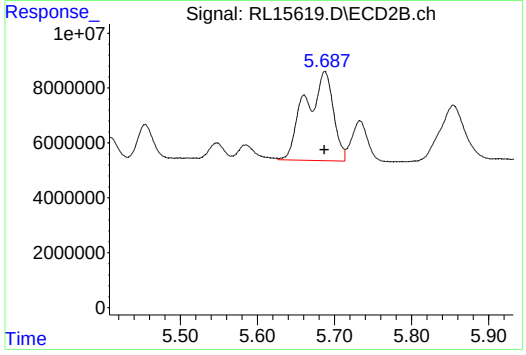
#5 AR1221-D

R.T.: 5.237 min
Delta R.T.: 0.064 min
Response: 119130329
Conc: 92.79 PPB m



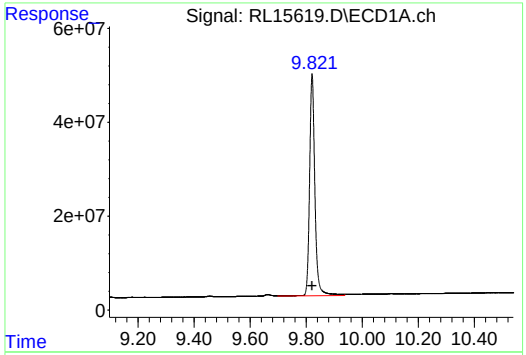
#6 AR1221-E

R.T.: 4.901 min
Delta R.T.: 0.000 min
Response: 146475241
Conc: 119.05 PPB



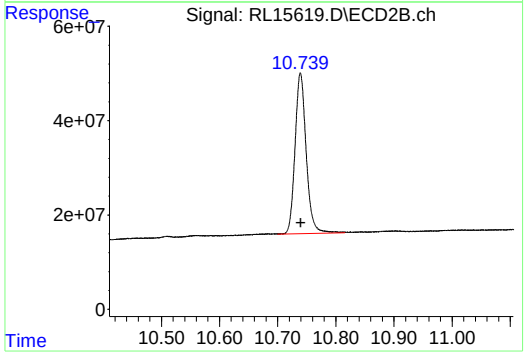
#6 AR1221-E

R.T.: 5.687 min
Delta R.T.: 0.000 min
Response: 81984449
Conc: 80.06 PPB m



#51 Decachlorobiphenyl

R.T.: 9.821 min
Delta R.T.: 0.000 min
Response: 622922873
Conc: 5.49 ppb



#51 Decachlorobiphenyl

R.T.: 10.739 min
Delta R.T.: 0.000 min
Response: 454029086
Conc: 4.85 ppb m

11.3.22
11

Manual Integrations APPROVED
(compounds with "m" flag)
Rebecca Krug
04/29/24 20:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl343\
Data File : RL15620.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 05:38 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:07:28 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:07:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.922	4.334	856.4E6	599.7E6	4.413	4.181
	Spiked Amount 40.000			Recovery	=	11.03%	10.45%
51) S	Decachlor...	9.828	10.751	620.2E6	481.6E6	5.468	5.146
	Spiked Amount 40.000			Recovery	=	13.67%	12.86%
	Target Compounds						
24)	AR1254-A	5.874	7.198	664.2E6	579.8E6	109.256	115.008
25)	AR1254-B	6.203	7.454	1204.1E6	689.8E6	111.751	125.222
26)	AR1254-C	6.603	7.923	717.3E6	480.6E6	127.482	112.539
27)	AR1254-D	6.794	8.065	1260.4E6	1072.8E6	117.477	116.873
28)	AR1254-E	7.210	8.316	972.6E6	853.7E6	134.728	141.230
29)	AR1254-F	7.463	8.684	913.7E6	776.4E6	136.149	118.752m
30)	AR1254-G	7.817	8.889	1278.9E6	995.0E6	135.154	153.870

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

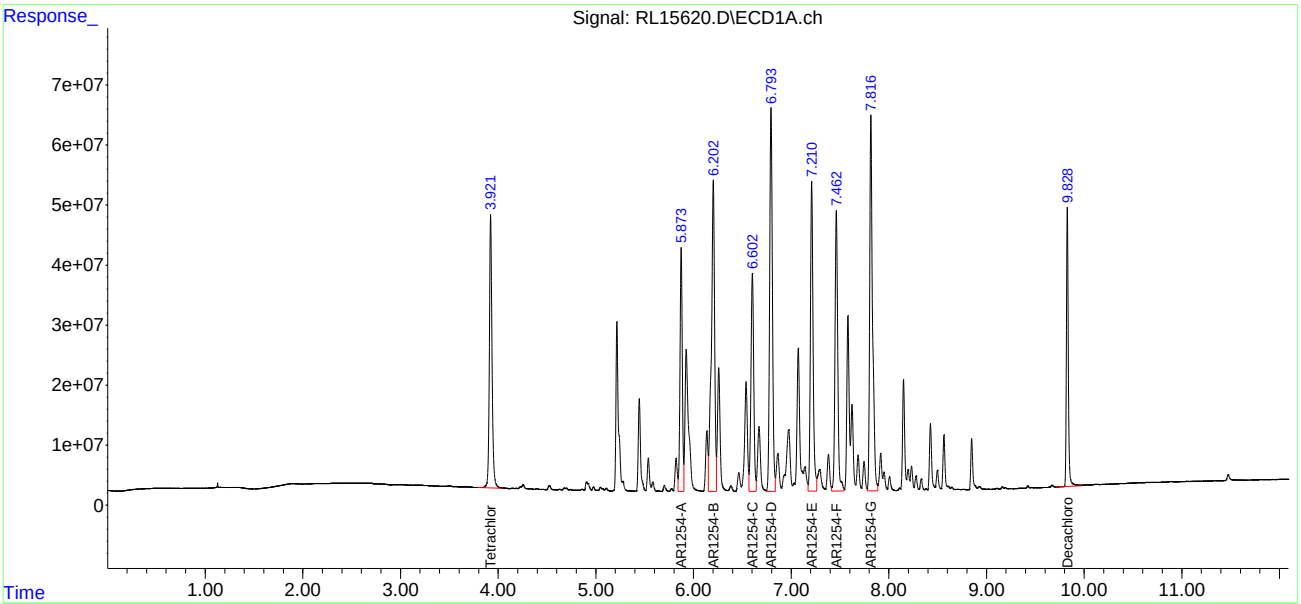
11.3.23
11

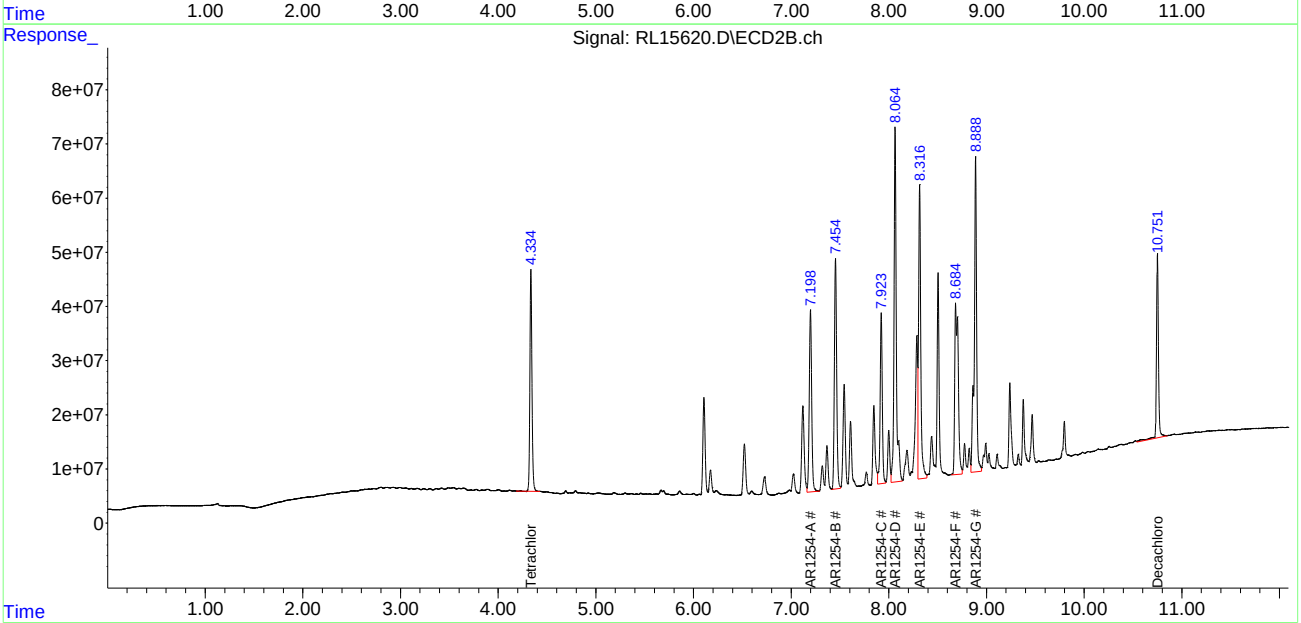
Quantitation Report (QT Reviewed)

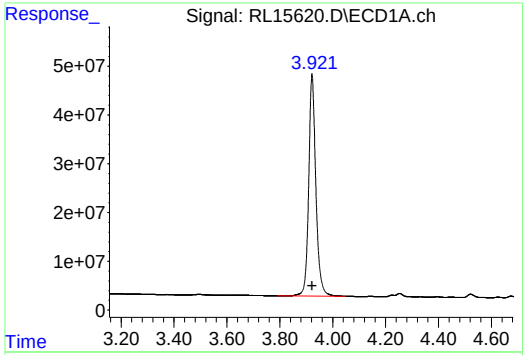
Data Path : C:\msdchem\1\data\grl343\
Data File : RL15620.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 05:38 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:07:28 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:07:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

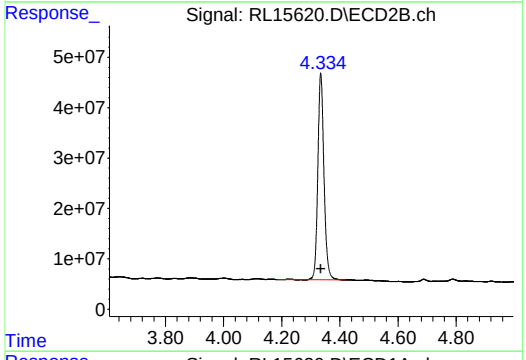






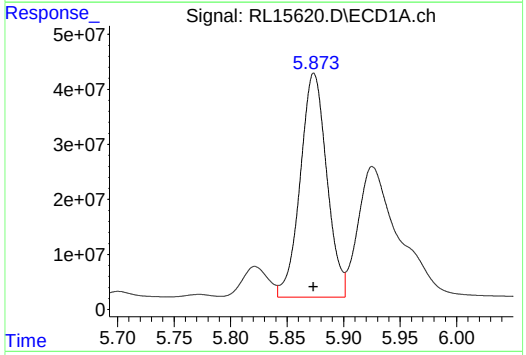
#1 Tetrachloro-m-xylene

R.T.: 3.922 min
Delta R.T.: 0.000 min
Response: 856388736
Conc: 4.41 ppb



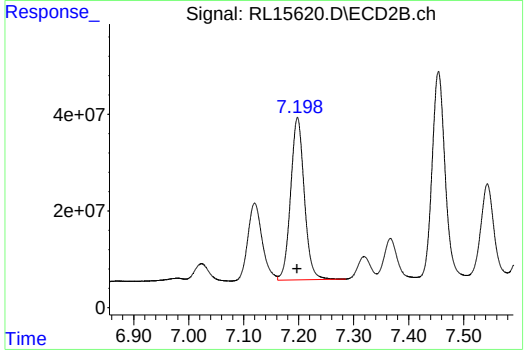
#1 Tetrachloro-m-xylene

R.T.: 4.334 min
Delta R.T.: 0.000 min
Response: 599651807
Conc: 4.18 ppb



#24 AR1254-A

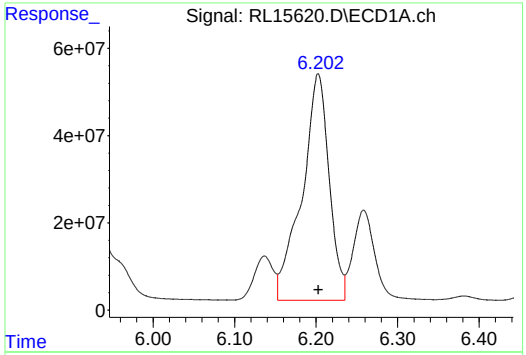
R.T.: 5.874 min
Delta R.T.: 0.000 min
Response: 664151486
Conc: 109.26 PPB



#24 AR1254-A

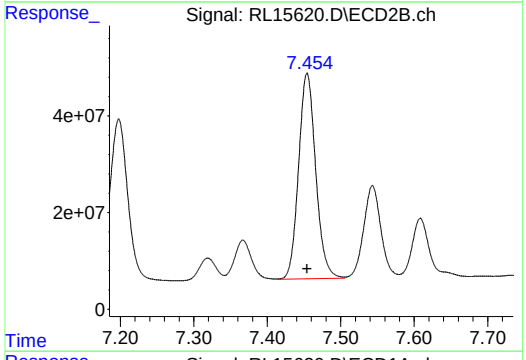
R.T.: 7.198 min
Delta R.T.: 0.000 min
Response: 579817639
Conc: 115.01 PPB

11.3.23 11



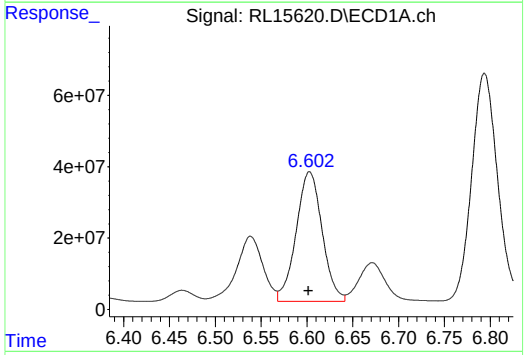
#25 AR1254-B

R.T.: 6.203 min
Delta R.T.: 0.000 min
Response: 1204087095
Conc: 111.75 PPB



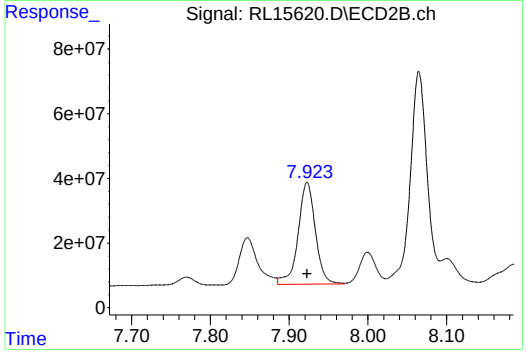
#25 AR1254-B

R.T.: 7.454 min
Delta R.T.: 0.000 min
Response: 689803082
Conc: 125.22 PPB



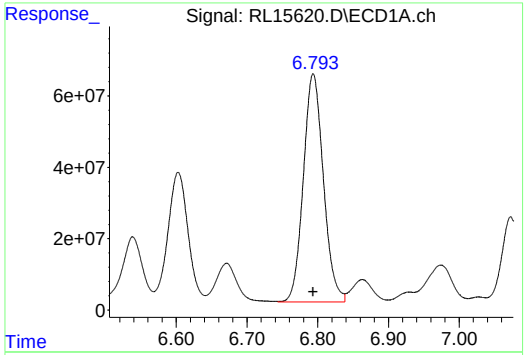
#26 AR1254-C

R.T.: 6.603 min
Delta R.T.: 0.001 min
Response: 717300465
Conc: 127.48 PPB



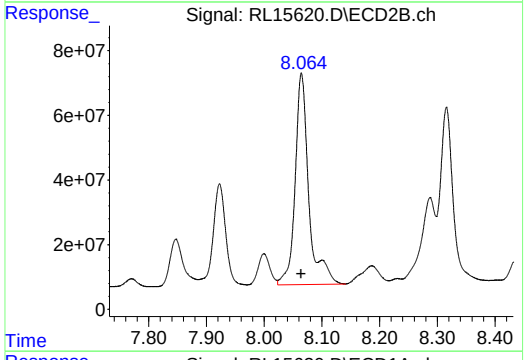
#26 AR1254-C

R.T.: 7.923 min
Delta R.T.: 0.000 min
Response: 480568872
Conc: 112.54 PPB



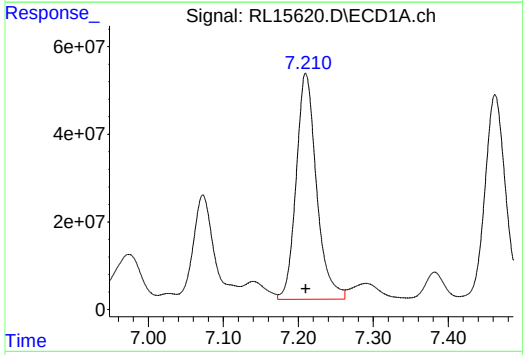
#27 AR1254-D

R.T.: 6.794 min
Delta R.T.: 0.000 min
Response: 1260391457
Conc: 117.48 PPB



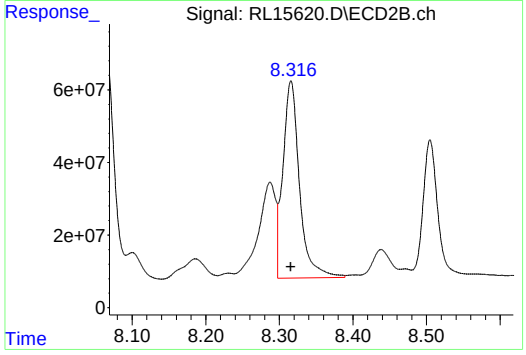
#27 AR1254-D

R.T.: 8.065 min
Delta R.T.: 0.000 min
Response: 1072751334
Conc: 116.87 PPB



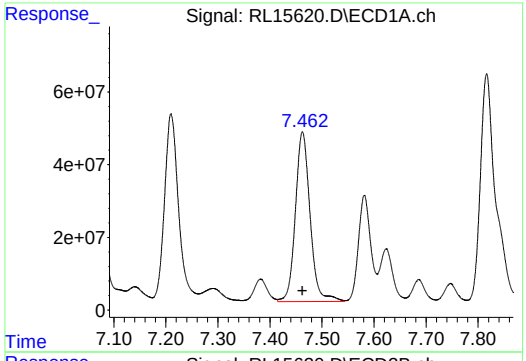
#28 AR1254-E

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 972639241
Conc: 134.73 PPB



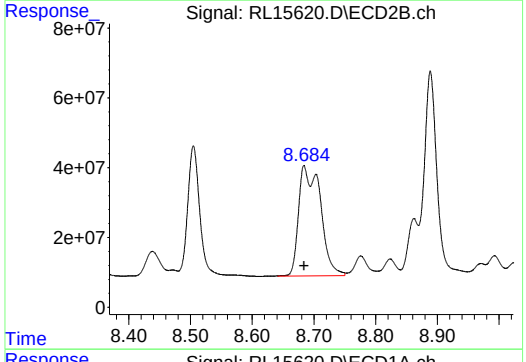
#28 AR1254-E

R.T.: 8.316 min
Delta R.T.: 0.000 min
Response: 853682253
Conc: 141.23 PPB



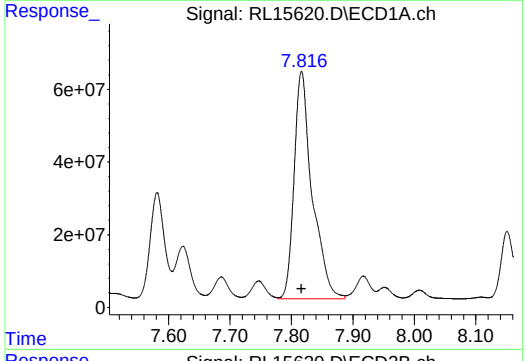
#29 AR1254-F

R.T.: 7.463 min
Delta R.T.: 0.000 min
Response: 913733523
Conc: 136.15 PPB



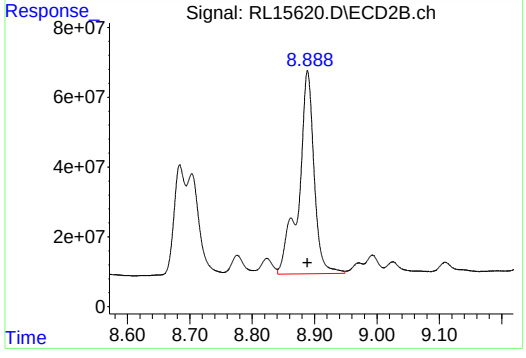
#29 AR1254-F

R.T.: 8.684 min
Delta R.T.: 0.000 min
Response: 776366222
Conc: 118.75 PPB m



#30 AR1254-G

R.T.: 7.817 min
Delta R.T.: 0.000 min
Response: 1278856446
Conc: 135.15 PPB



#30 AR1254-G

R.T.: 8.889 min
Delta R.T.: 0.000 min
Response: 994998445
Conc: 153.87 PPB

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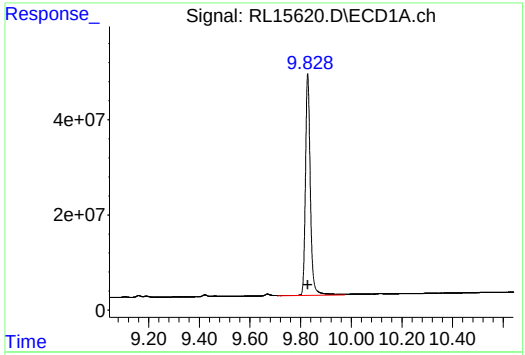
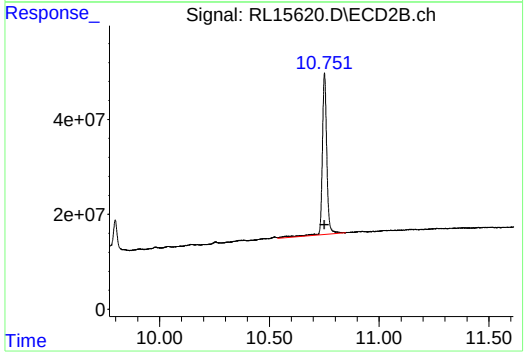


#51 Decachlorobiphenyl

R.T.: 9.828 min
Delta R.T.: 0.000 min
Response: 620229964
Conc: 5.47 ppb



#51 Decachlorobiphenyl

R.T.: 10.751 min
Delta R.T.: 0.000 min
Response: 481596916
Conc: 5.15 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Rebecca Krug
04/29/24 20:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl343\
Data File : RL15621.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 05:55 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:08:57 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:08:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.924	4.335	860.4E6	571.5E6	4.434	3.984
	Spiked Amount 40.000			Recovery	=	11.09%	9.96%
51) S	Decachlor...	9.830	10.754	587.6E6	431.4E6	5.180	4.609m
	Spiked Amount 40.000			Recovery	=	12.95%	11.52%
	Target Compounds						
7)	AR1232-A	4.223	4.788	532.2E6	308.2E6	148.420	113.377
8)	AR1232-B	4.523	5.180	354.0E6	233.9E6	131.257	102.006
9)	AR1232-C	4.923	5.691	739.9E6	514.6E6	126.984	112.898m
10)	AR1232-D	5.045	5.860	288.0E6	193.3E6	124.489	108.692
11)	AR1232-E	5.446	6.521	259.7E6	139.1E6	116.894	108.310

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

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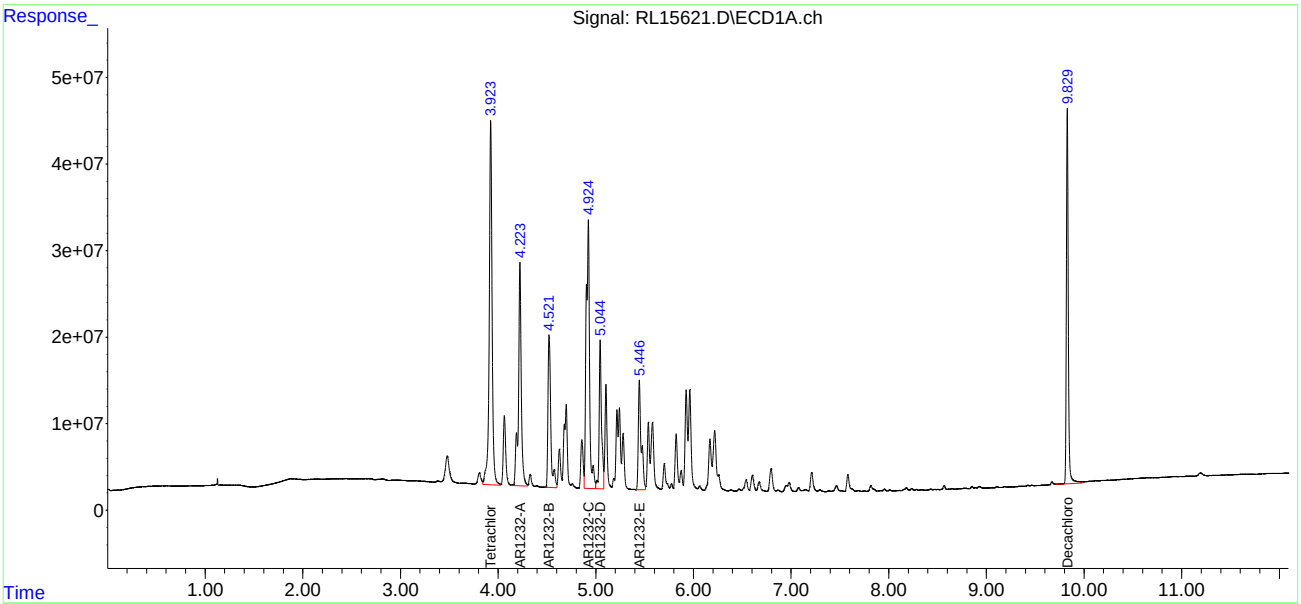
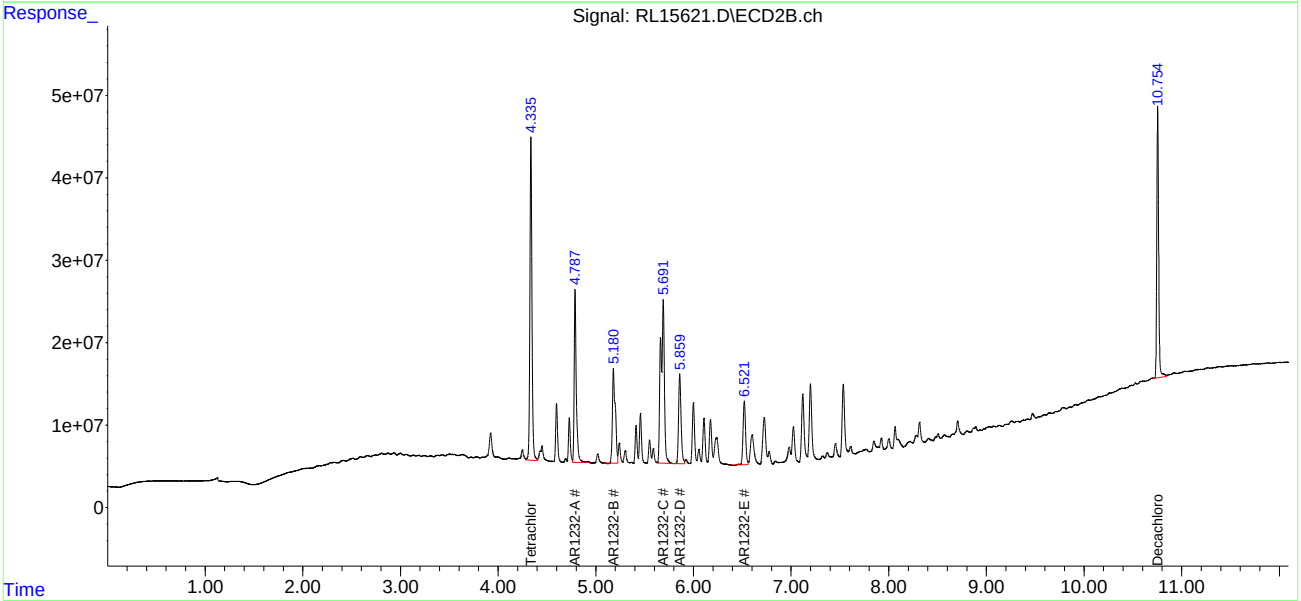
Quantitation Report (QT Reviewed)

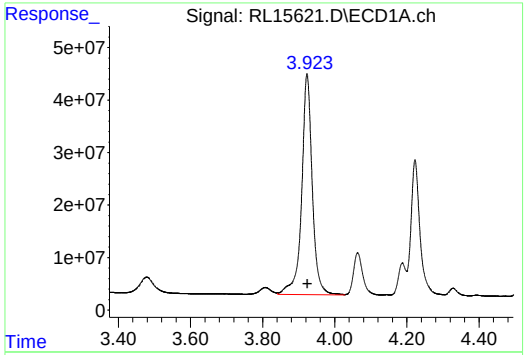
Data Path : C:\msdchem\1\data\grl343\
Data File : RL15621.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 05:55 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:08:57 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:08:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

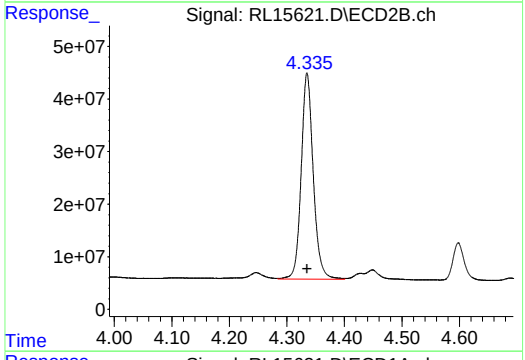






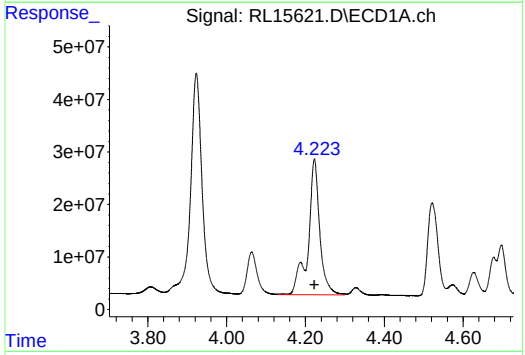
#1 Tetrachloro-m-xylene

R.T.: 3.924 min
Delta R.T.: 0.000 min
Response: 860437759
Conc: 4.43 ppb



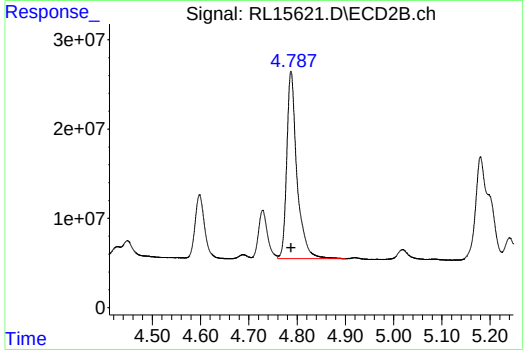
#1 Tetrachloro-m-xylene

R.T.: 4.335 min
Delta R.T.: 0.000 min
Response: 571465063
Conc: 3.98 ppb



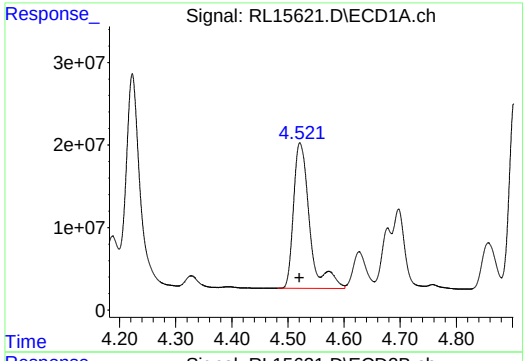
#7 AR1232-A

R.T.: 4.223 min
Delta R.T.: 0.000 min
Response: 532192037
Conc: 148.42 PPB



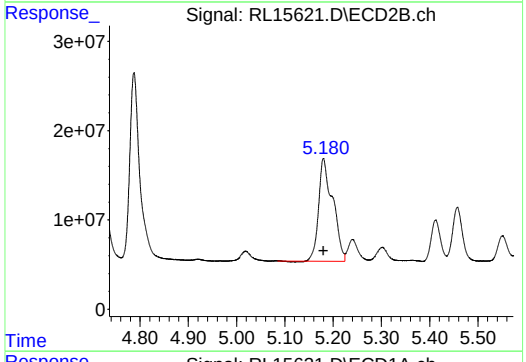
#7 AR1232-A

R.T.: 4.788 min
Delta R.T.: 0.000 min
Response: 308206942
Conc: 113.38 PPB



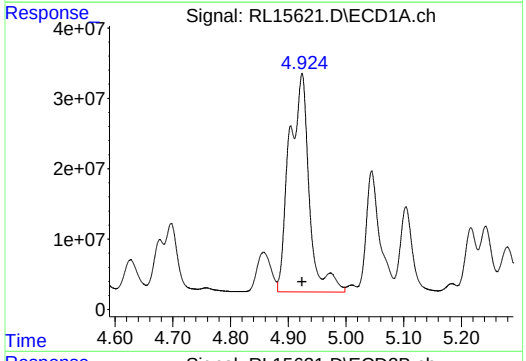
#8 AR1232-B

R.T.: 4.523 min
Delta R.T.: 0.002 min
Response: 354040331
Conc: 131.26 PPB



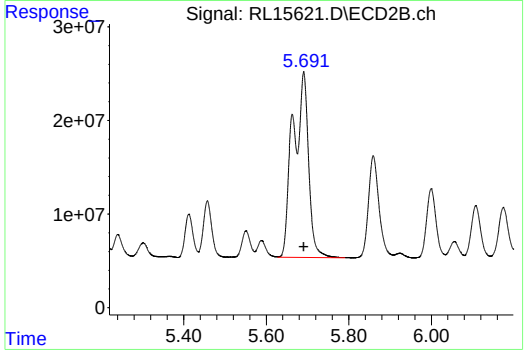
#8 AR1232-B

R.T.: 5.180 min
Delta R.T.: 0.000 min
Response: 233873470
Conc: 102.01 PPB



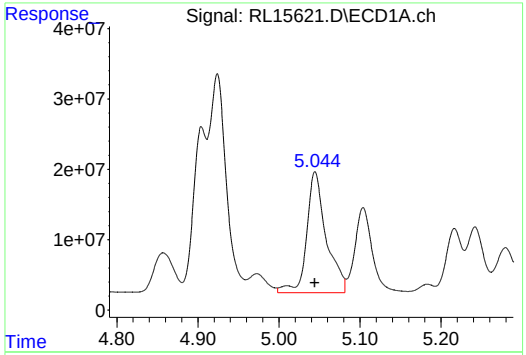
#9 AR1232-C

R.T.: 4.923 min
Delta R.T.: -0.001 min
Response: 739914457
Conc: 126.98 PPB



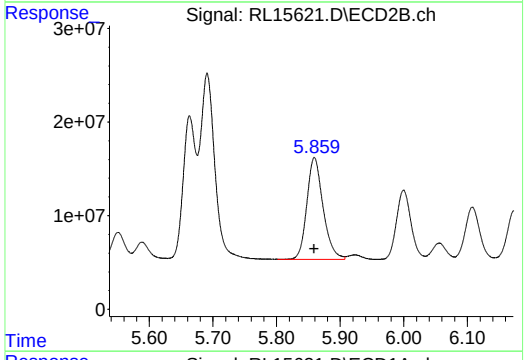
#9 AR1232-C

R.T.: 5.691 min
Delta R.T.: 0.000 min
Response: 514592262
Conc: 112.90 PPB m



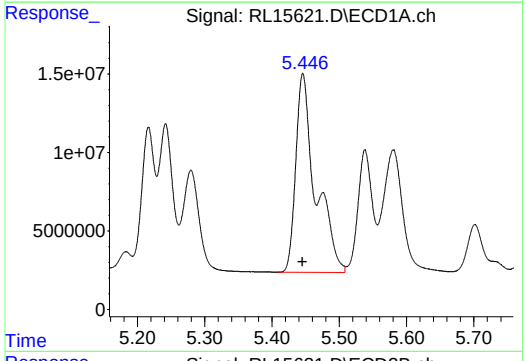
#10 AR1232-D

R.T.: 5.045 min
Delta R.T.: 0.000 min
Response: 288048747
Conc: 124.49 PPB



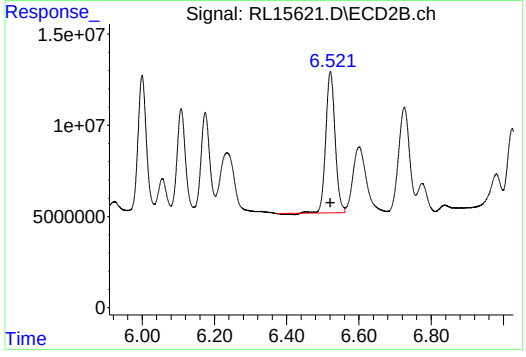
#10 AR1232-D

R.T.: 5.860 min
Delta R.T.: 0.000 min
Response: 193290324
Conc: 108.69 PPB



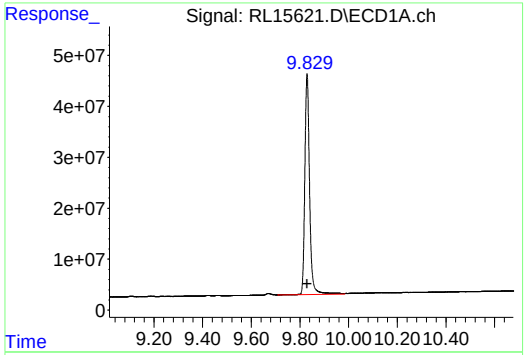
#11 AR1232-E

R.T.: 5.446 min
Delta R.T.: 0.000 min
Response: 259698875
Conc: 116.89 PPB



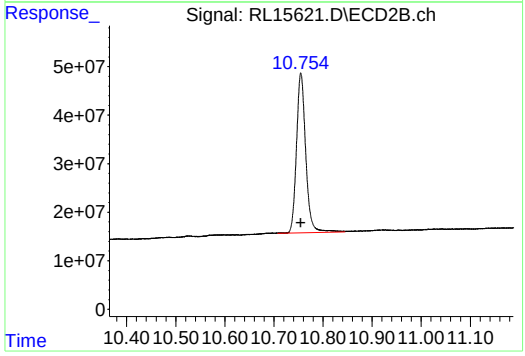
#11 AR1232-E

R.T.: 6.521 min
Delta R.T.: 0.000 min
Response: 139082532
Conc: 108.31 PPB



#51 Decachlorobiphenyl

R.T.: 9.830 min
Delta R.T.: 0.000 min
Response: 587550680
Conc: 5.18 ppb



#51 Decachlorobiphenyl

R.T.: 10.754 min
Delta R.T.: 0.000 min
Response: 431367630
Conc: 4.61 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Rebecca Krug
04/29/24 20:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl343\
Data File : RL15622.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 06:12 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:10:29 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:10:24 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.924	4.335	792.7E6	564.4E6	4.085	3.935
	Spiked Amount 40.000			Recovery	=	10.21%	9.84%
51) S	Decachlor...	9.833	10.762	576.7E6	430.1E6	5.085m	4.596
	Spiked Amount 40.000			Recovery	=	12.71%	11.49%
	Target Compounds						
31)	AR1262-A	7.460	8.507	1078.3E6	863.3E6	140.929	162.162
32)	AR1262-B	7.954	8.972	1456.4E6	1263.4E6	154.853	174.330
33)	AR1262-C	8.235	9.261	1173.8E6	980.3E6	141.256	142.066
34)	AR1262-D	8.568	9.472	2751.4E6	2085.9E6	156.370	151.053
35)	AR1262-E	8.884	9.787	2863.9E6	2188.0E6	153.233m	145.811m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.3.25
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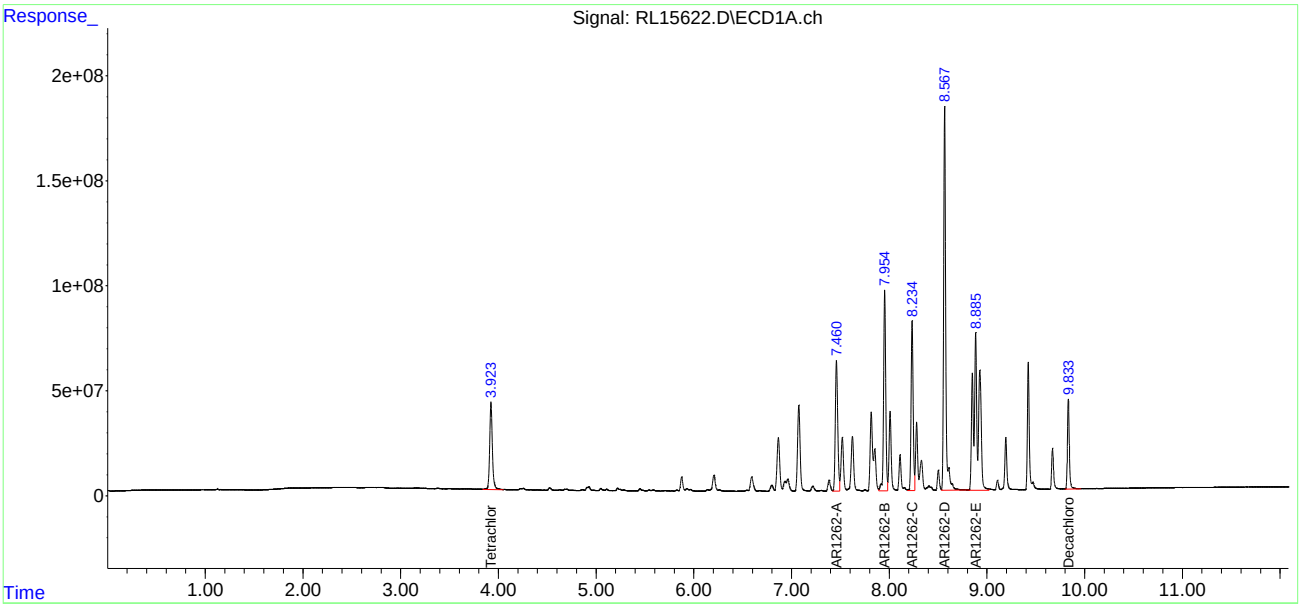
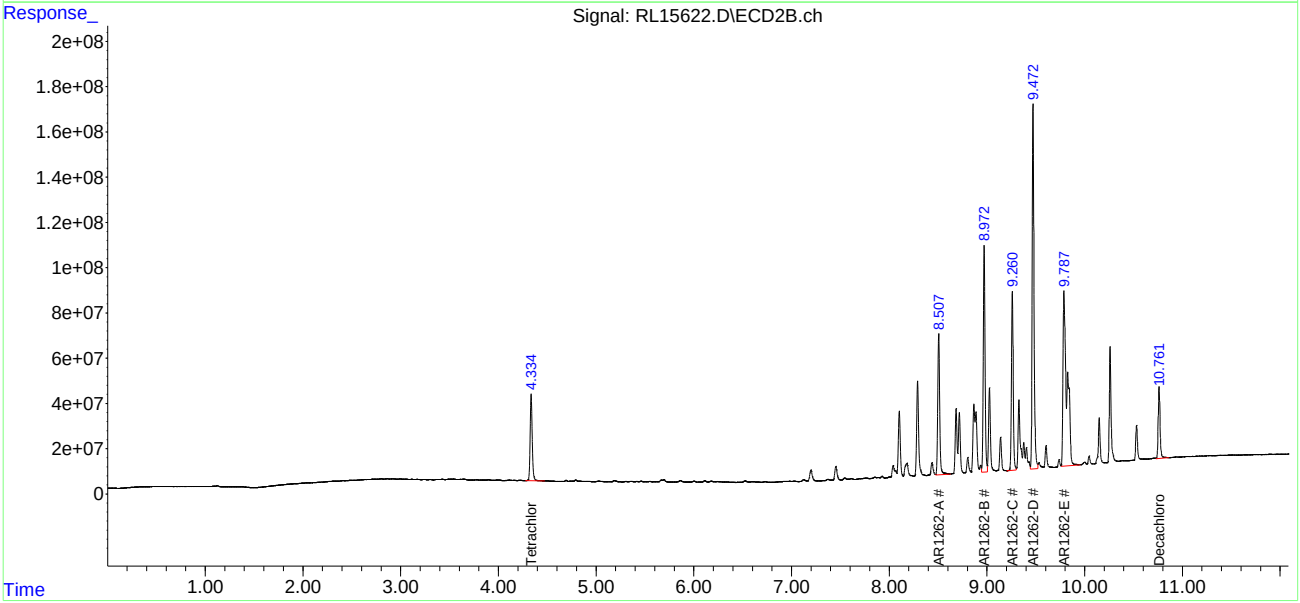
Quantitation Report (QT Reviewed)

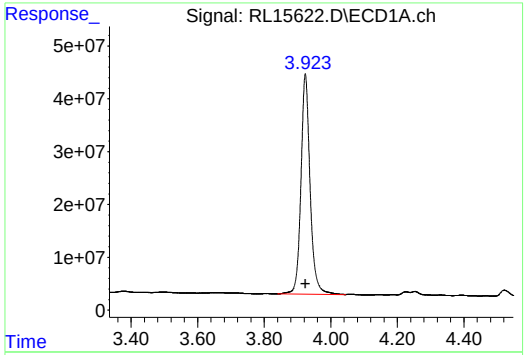
Data Path : C:\msdchem\1\data\grl343\
Data File : RL15622.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 06:12 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:10:29 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:10:24 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

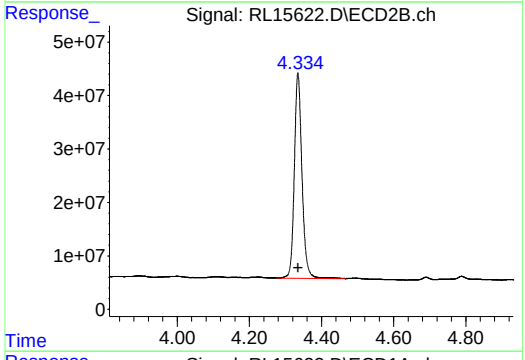






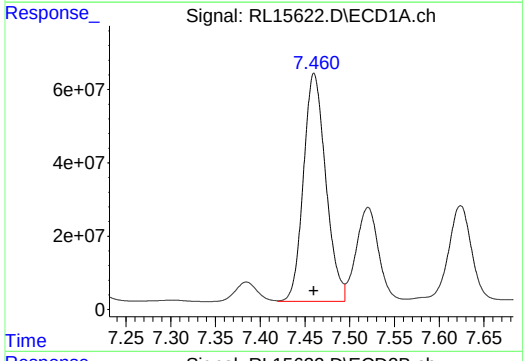
#1 Tetrachloro-m-xylene

R.T.: 3.924 min
Delta R.T.: 0.000 min
Response: 792695444
Conc: 4.08 ppb



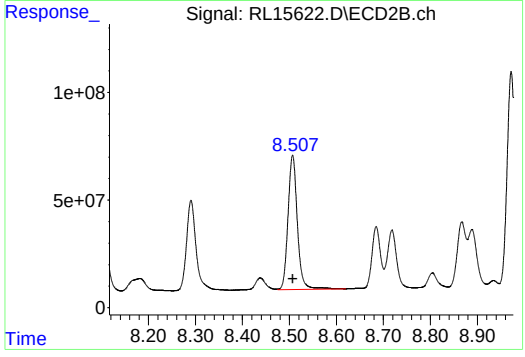
#1 Tetrachloro-m-xylene

R.T.: 4.335 min
Delta R.T.: 0.000 min
Response: 564414143
Conc: 3.94 ppb



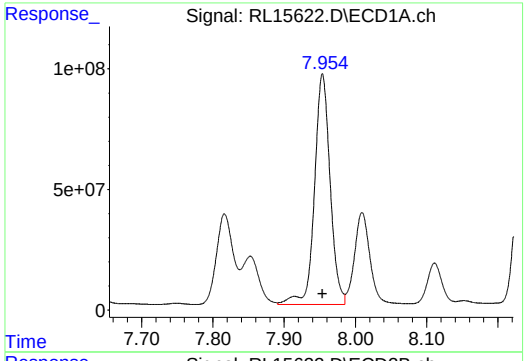
#31 AR1262-A

R.T.: 7.460 min
Delta R.T.: 0.000 min
Response: 1078310297
Conc: 140.93 PPB



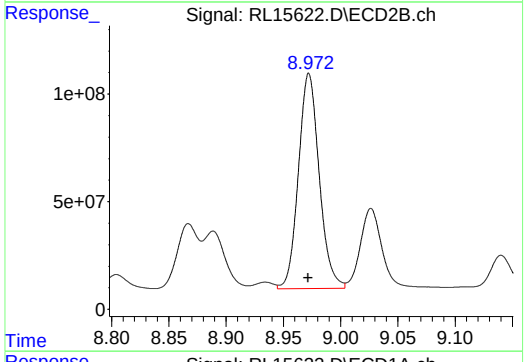
#31 AR1262-A

R.T.: 8.507 min
Delta R.T.: 0.000 min
Response: 863273518
Conc: 162.16 PPB



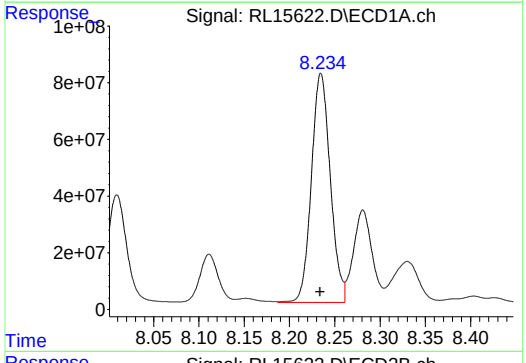
#32 AR1262-B

R.T.: 7.954 min
Delta R.T.: 0.000 min
Response: 1456443082
Conc: 154.85 PPB



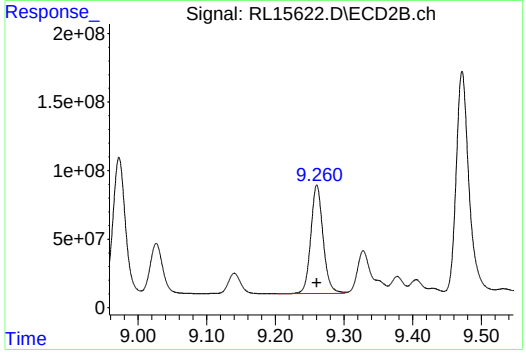
#32 AR1262-B

R.T.: 8.972 min
Delta R.T.: 0.000 min
Response: 1263406248
Conc: 174.33 PPB



#33 AR1262-C

R.T.: 8.235 min
Delta R.T.: 0.000 min
Response: 1173772453
Conc: 141.26 PPB



#33 AR1262-C

R.T.: 9.261 min
Delta R.T.: 0.000 min
Response: 980298667
Conc: 142.07 PPB

11.3.25
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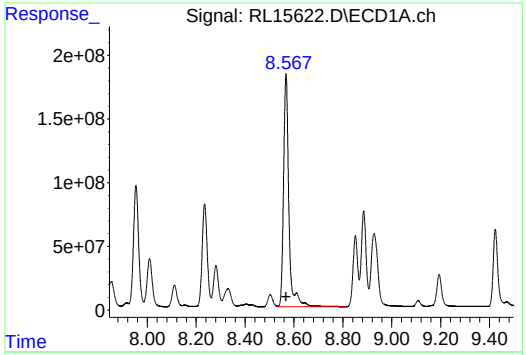
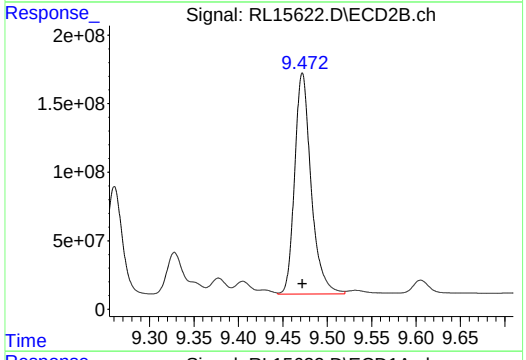


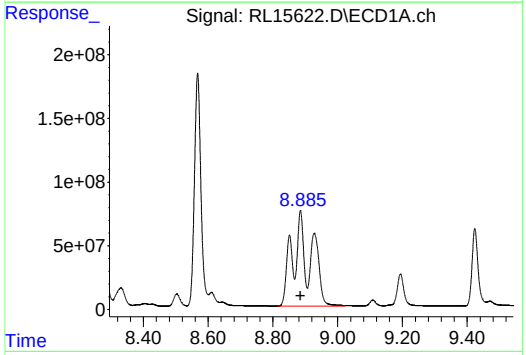
#34 AR1262-D

R.T.: 8.568 min
Delta R.T.: 0.000 min
Response: 2751409796
Conc: 156.37 PPB



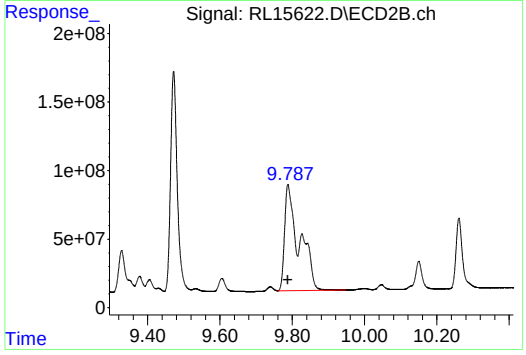
#34 AR1262-D

R.T.: 9.472 min
Delta R.T.: 0.000 min
Response: 2085933396
Conc: 151.05 PPB



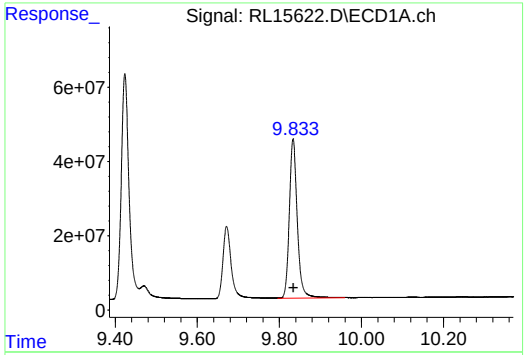
#35 AR1262-E

R.T.: 8.884 min
Delta R.T.: 0.000 min
Response: 2863874103
Conc: 153.23 PPB m



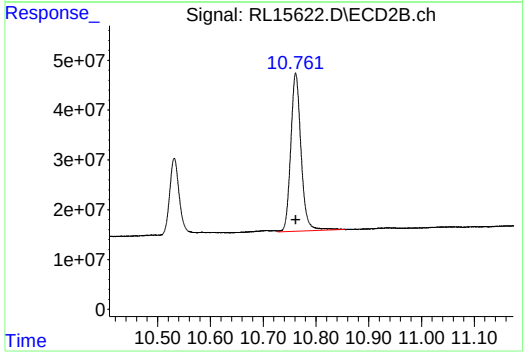
#35 AR1262-E

R.T.: 9.787 min
Delta R.T.: 0.000 min
Response: 2188042482
Conc: 145.81 PPB m



#51 Decachlorobiphenyl

R.T.: 9.833 min
Delta R.T.: 0.000 min
Response: 576745895
Conc: 5.08 ppb m



#51 Decachlorobiphenyl

R.T.: 10.762 min
Delta R.T.: 0.000 min
Response: 430090840
Conc: 4.60 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Rebecca Krug
04/29/24 20:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl343\
Data File : RL15623.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 06:28 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:12:16 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:12:11 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1)	S Tetrachlo...	3.923	4.335	849.8E6	574.0E6	4.379	4.002
	Spiked Amount 40.000			Recovery	=	10.95%	10.01%
51)	S Decachlor...	9.832	10.761	584.4E6	454.8E6	5.152	4.860
	Spiked Amount 40.000			Recovery	=	12.88%	12.15%
	Target Compounds						
12)	AR1242-A	4.522	5.182	618.0E6	426.0E6	1274.758	108.977 #
13)	AR1242-B	4.924	5.692	1311.9E6	986.0E6	123.398	117.576m
14)	AR1242-C	5.045	5.861	523.5E6	359.3E6	123.887	111.659
15)	AR1242-D	5.447	6.521	395.4E6	294.2E6	89.278	113.198 #
16)	AR1242-E	5.963	7.199	447.4E6	357.1E6	125.701	114.207

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.3.26
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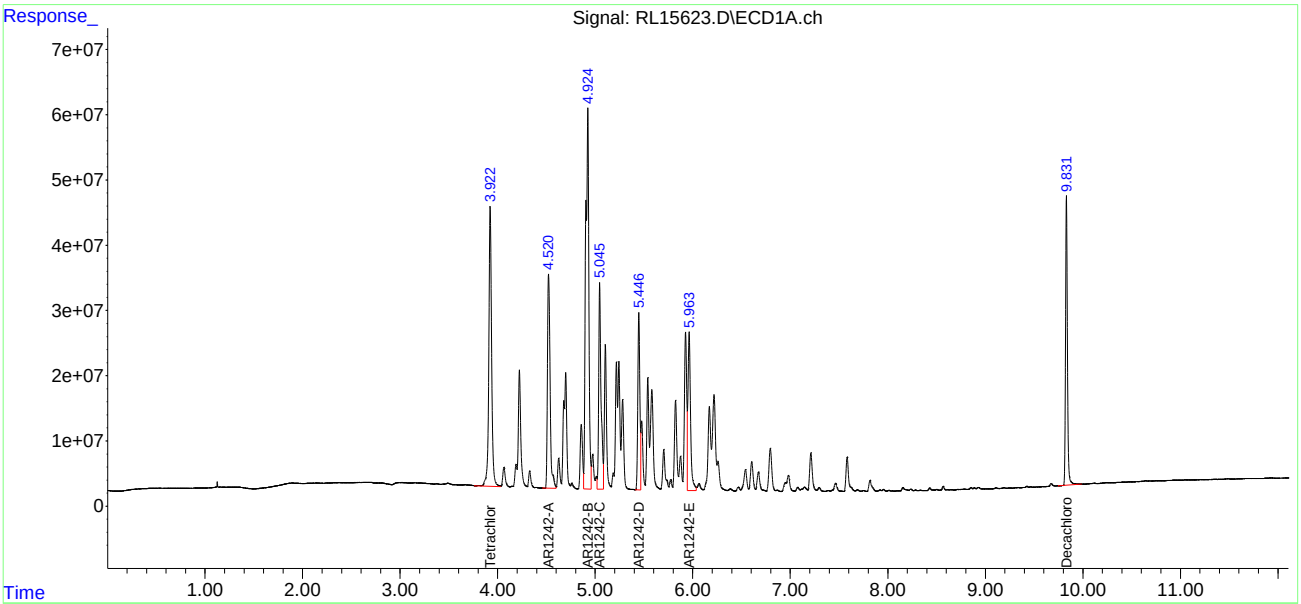
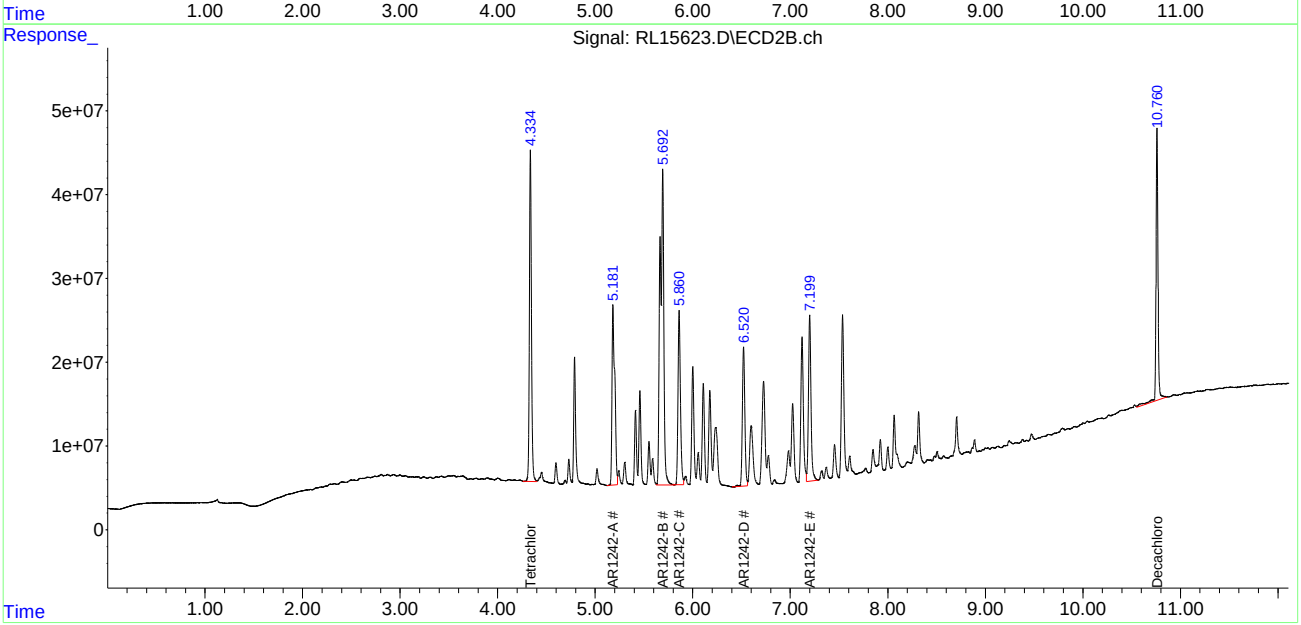
Quantitation Report (QT Reviewed)

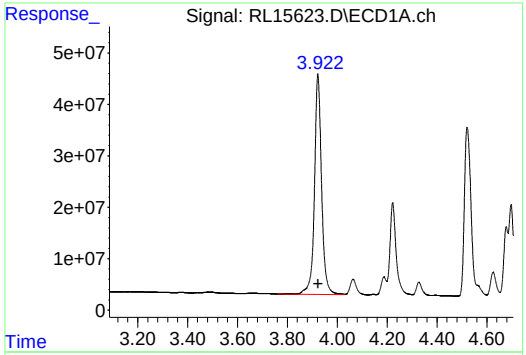
Data Path : C:\msdchem\1\data\grl343\
Data File : RL15623.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 06:28 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:12:16 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:12:11 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

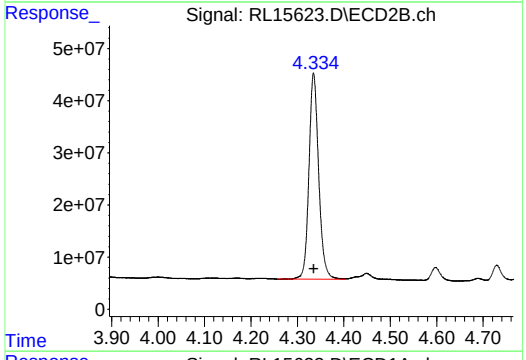






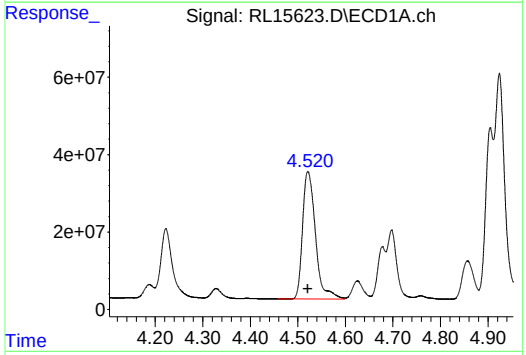
#1 Tetrachloro-m-xylene

R.T.: 3.923 min
Delta R.T.: 0.000 min
Response: 849811103
Conc: 4.38 ppb



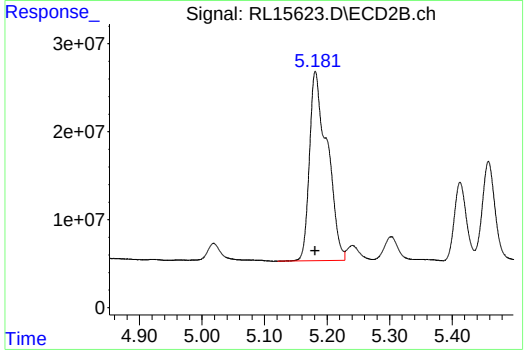
#1 Tetrachloro-m-xylene

R.T.: 4.335 min
Delta R.T.: 0.000 min
Response: 574005186
Conc: 4.00 ppb



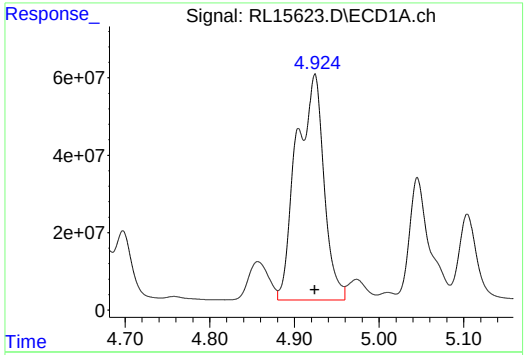
#12 AR1242-A

R.T.: 4.522 min
Delta R.T.: 0.001 min
Response: 618000386
Conc: 1274.76 PPB



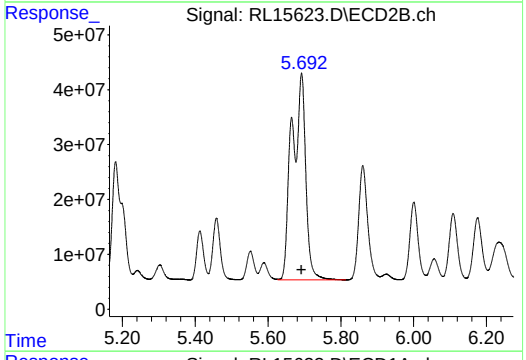
#12 AR1242-A

R.T.: 5.182 min
Delta R.T.: 0.000 min
Response: 425963145
Conc: 108.98 PPB



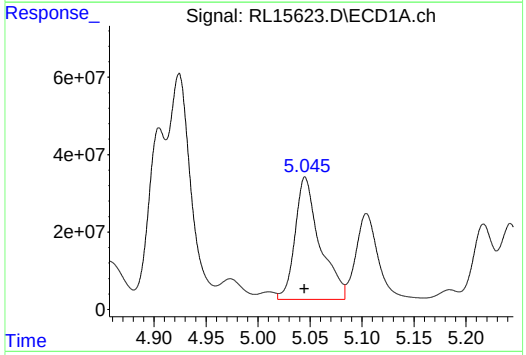
#13 AR1242-B

R.T.: 4.924 min
Delta R.T.: 0.000 min
Response: 1311882302
Conc: 123.40 PPB



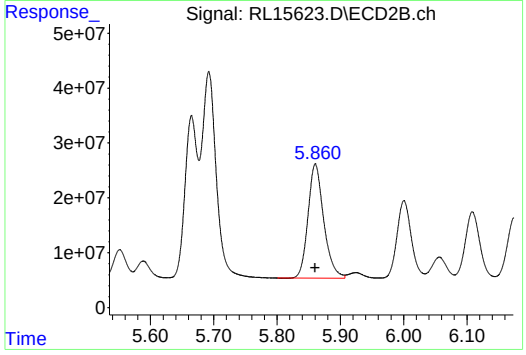
#13 AR1242-B

R.T.: 5.692 min
Delta R.T.: 0.000 min
Response: 986041777
Conc: 117.58 PPB m



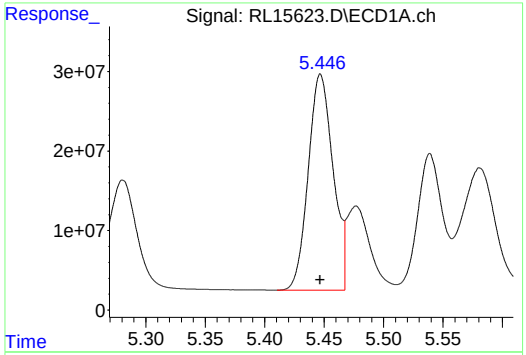
#14 AR1242-C

R.T.: 5.045 min
Delta R.T.: 0.000 min
Response: 523454257
Conc: 123.89 PPB



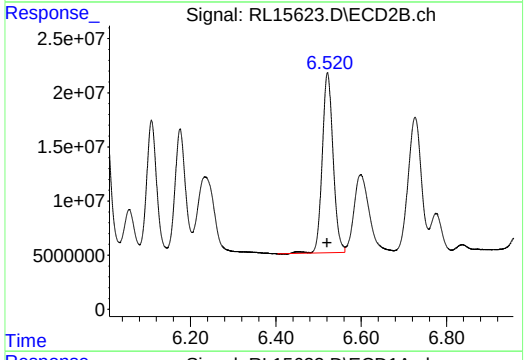
#14 AR1242-C

R.T.: 5.861 min
Delta R.T.: 0.000 min
Response: 359302954
Conc: 111.66 PPB



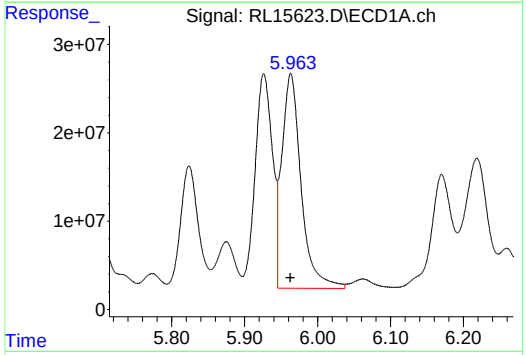
#15 AR1242-D

R.T.: 5.447 min
Delta R.T.: 0.000 min
Response: 395418810
Conc: 89.28 PPB



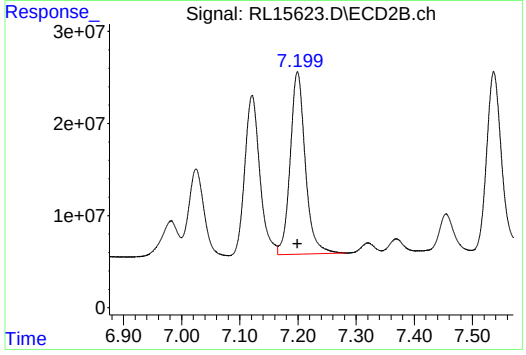
#15 AR1242-D

R.T.: 6.521 min
Delta R.T.: 0.000 min
Response: 294226316
Conc: 113.20 PPB



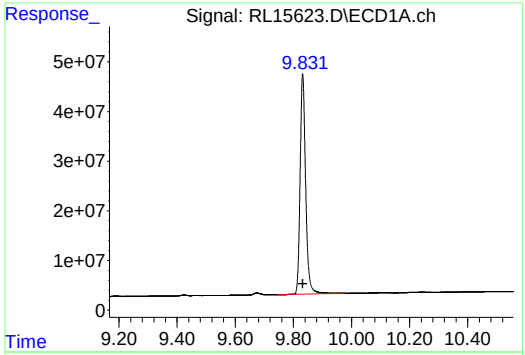
#16 AR1242-E

R.T.: 5.963 min
Delta R.T.: 0.000 min
Response: 447384728
Conc: 125.70 PPB



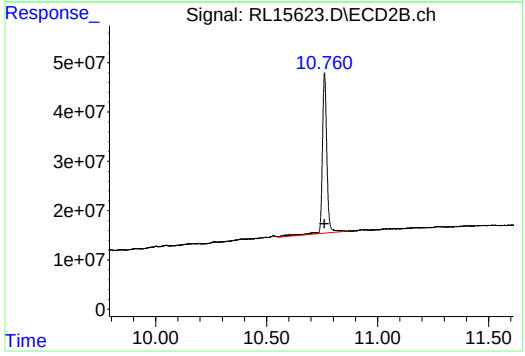
#16 AR1242-E

R.T.: 7.199 min
Delta R.T.: 0.000 min
Response: 357108128
Conc: 114.21 PPB



#51 Decachlorobiphenyl

R.T.: 9.832 min
Delta R.T.: 0.000 min
Response: 584381873
Conc: 5.15 ppb



#51 Decachlorobiphenyl

R.T.: 10.761 min
Delta R.T.: 0.000 min
Response: 454831226
Conc: 4.86 ppb

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl343\
Data File : RL15624.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 06:45 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:13:51 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:13:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.923	4.336	934.5E6	645.2E6	4.816	4.498
	Spiked Amount 40.000			Recovery	=	12.04%	11.25%
51) S	Decachlor...	9.834	10.765	1880.1E6	1392.7E6	16.576	14.882
	Spiked Amount 40.000			Recovery	=	41.44%	37.20%
	Target Compounds						
36)	AR1268-A	8.886	9.788	3105.3E6	2504.8E6	170.210	159.894
37)	AR1268-B	8.924	9.828	2878.6E6	2163.4E6	153.347	142.394
38)	AR1268-C	9.108	10.047	2301.8E6	1755.9E6	155.596	142.485
39)	AR1268-D	9.424	10.262	976.8E6	738.4E6	162.556	146.045
40)	AR1268-E	9.673	10.534	6917.6E6	5254.8E6	161.627	133.060

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

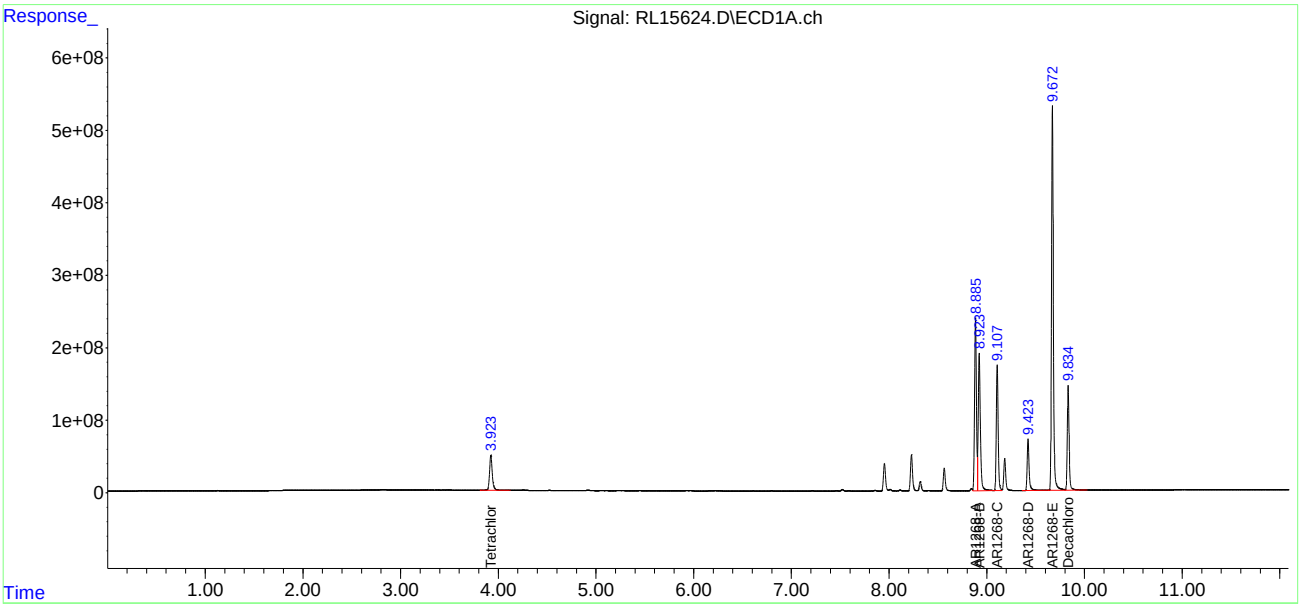
11.3.27 11

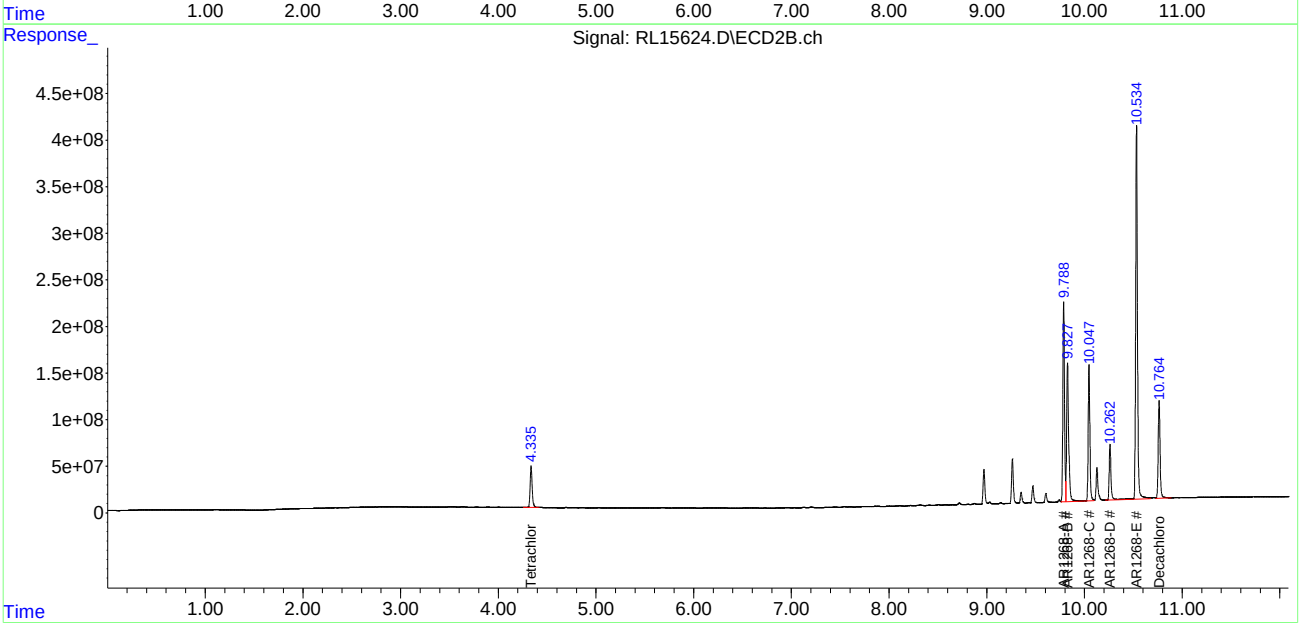
Quantitation Report (QT Reviewed)

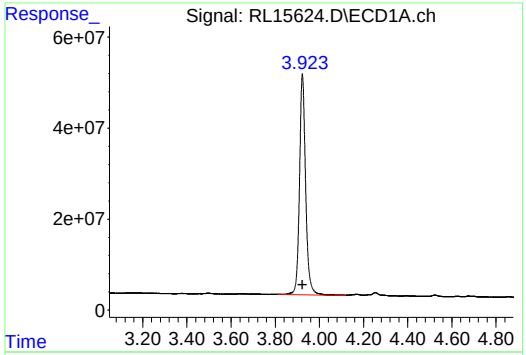
Data Path : C:\msdchem\1\data\grl343\
Data File : RL15624.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 06:45 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:13:51 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:13:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

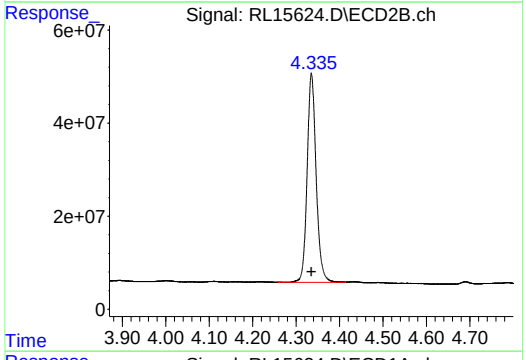






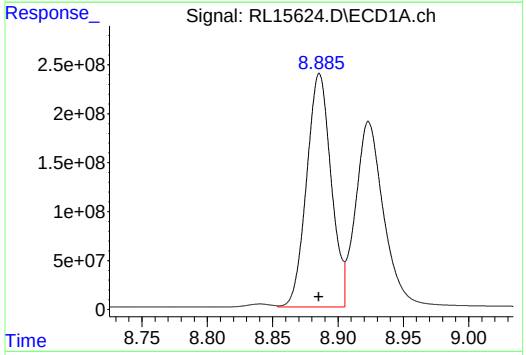
#1 Tetrachloro-m-xylene

R.T.: 3.923 min
Delta R.T.: 0.000 min
Response: 934532101
Conc: 4.82 ppb



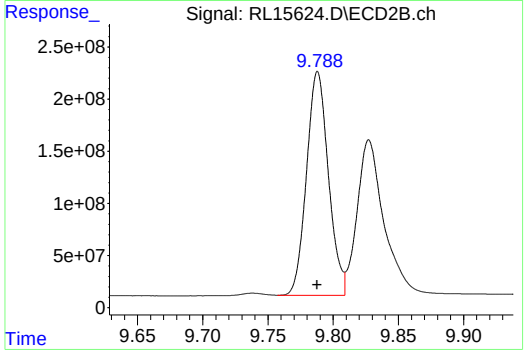
#1 Tetrachloro-m-xylene

R.T.: 4.336 min
Delta R.T.: 0.000 min
Response: 645213250
Conc: 4.50 ppb



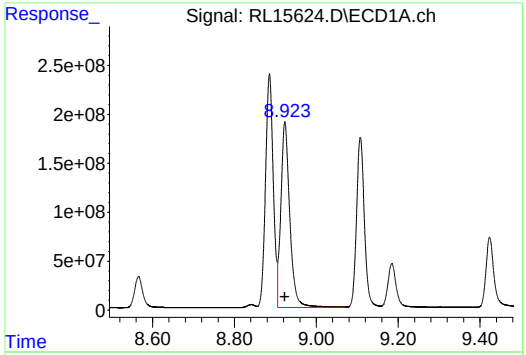
#36 AR1268-A

R.T.: 8.886 min
Delta R.T.: 0.000 min
Response: 3105343773
Conc: 170.21 PPB



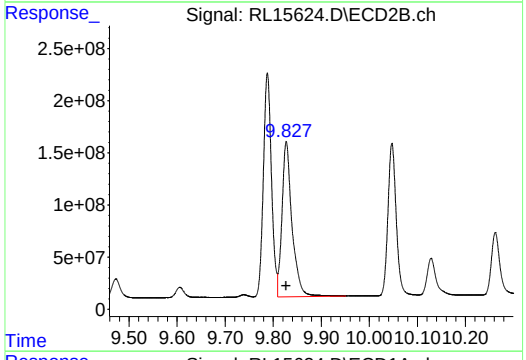
#36 AR1268-A

R.T.: 9.788 min
Delta R.T.: 0.000 min
Response: 2504778260
Conc: 159.89 PPB



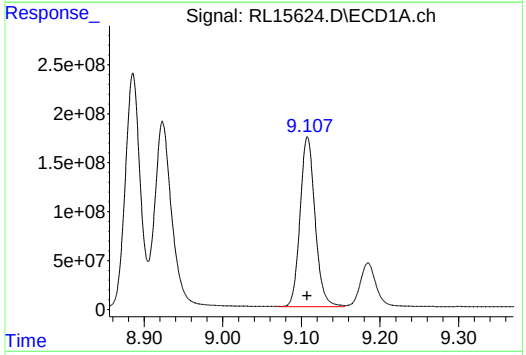
#37 AR1268-B

R.T.: 8.924 min
Delta R.T.: 0.000 min
Response: 2878623935
Conc: 153.35 PPB



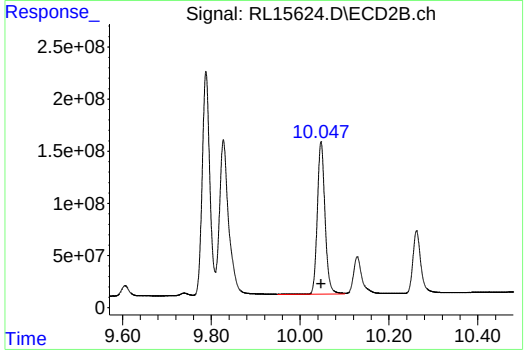
#37 AR1268-B

R.T.: 9.828 min
Delta R.T.: 0.000 min
Response: 2163394968
Conc: 142.39 PPB



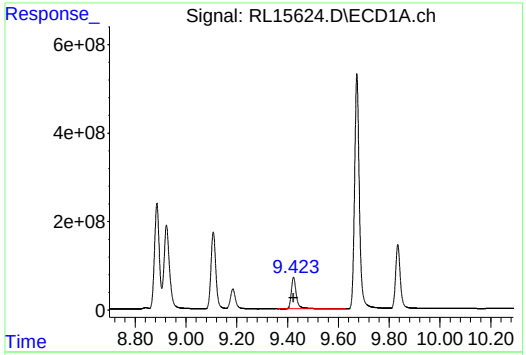
#38 AR1268-C

R.T.: 9.108 min
Delta R.T.: 0.000 min
Response: 2301816520
Conc: 155.60 PPB



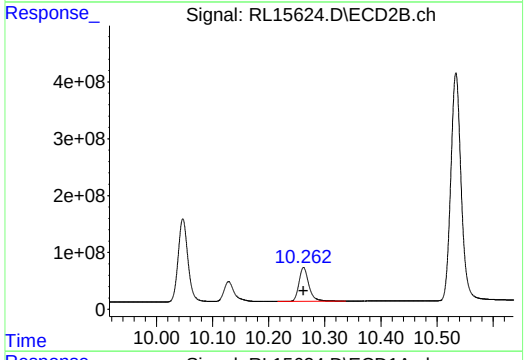
#38 AR1268-C

R.T.: 10.047 min
Delta R.T.: 0.000 min
Response: 1755895709
Conc: 142.49 PPB



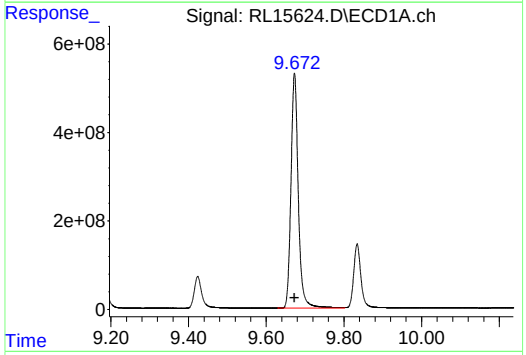
#39 AR1268-D

R.T.: 9.424 min
Delta R.T.: 0.000 min
Response: 976771567
Conc: 162.56 PPB



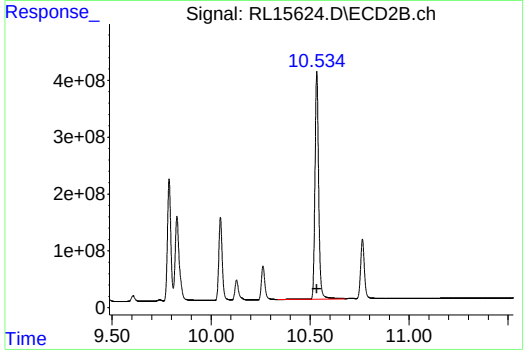
#39 AR1268-D

R.T.: 10.262 min
Delta R.T.: 0.000 min
Response: 738419159
Conc: 146.04 PPB



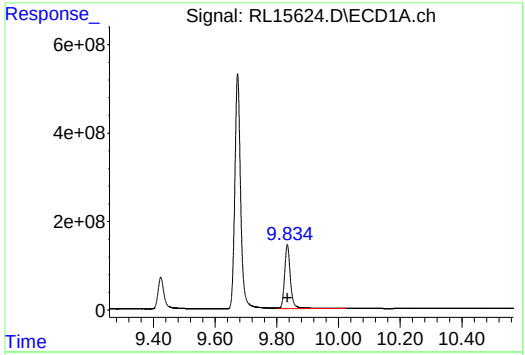
#40 AR1268-E

R.T.: 9.673 min
Delta R.T.: 0.000 min
Response: 6917556210
Conc: 161.63 PPB



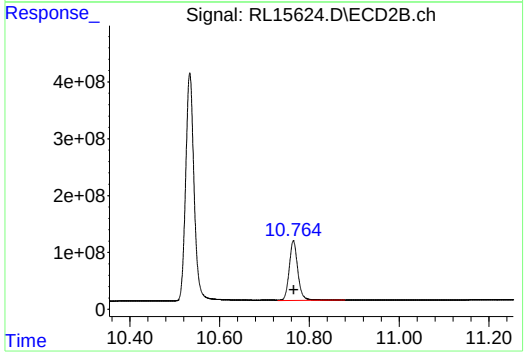
#40 AR1268-E

R.T.: 10.534 min
Delta R.T.: 0.000 min
Response: 5254755466
Conc: 133.06 PPB



#51 Decachlorobiphenyl

R.T.: 9.834 min
Delta R.T.: 0.000 min
Response: 1880125255
Conc: 16.58 ppb



#51 Decachlorobiphenyl

R.T.: 10.765 min
Delta R.T.: 0.000 min
Response: 1392651795
Conc: 14.88 ppb

Manual Integrations APPROVED (compounds with "m" flag)
Rebecca Krug
04/29/24 20:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\grl343\
Data File : RL15625.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 07:02 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:16:04 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:16:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.923	4.335	766.8E6	526.1E6	3.951	3.668
	Spiked Amount 40.000			Recovery	=	9.88%	9.17%
51) S	Decachlor...	9.833	10.762	547.9E6	416.6E6	4.831	4.452
	Spiked Amount 40.000			Recovery	=	12.08%	11.13%
	Target Compounds						
17)	AR1248-A	4.519	5.181	277.6E6	189.1E6	120.145	110.020
18)	AR1248-B	4.923	5.663	794.6E6	579.8E6	125.026m	114.690m
19)	AR1248-C	5.216	6.108	476.9E6	360.8E6	48.822	114.627 #
20)	AR1248-D	5.538	6.521	419.8E6	478.5E6	62.364	116.545 #
21)	AR1248-E	5.823	6.725	375.7E6	434.7E6	113.005	117.565
22)	AR1248-F	5.963	7.198	742.2E6	646.8E6	64.234	117.829 #
23)	AR1248-G	6.215	7.536	623.7E6	589.5E6	99.125	113.817

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

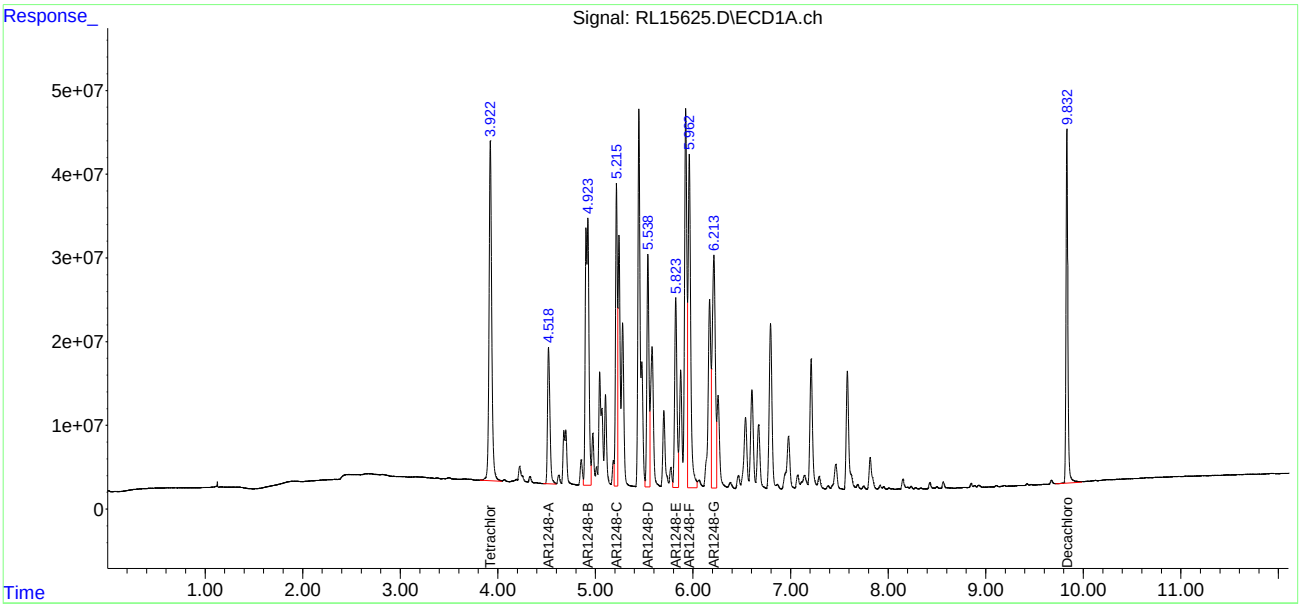
11.3.28
11

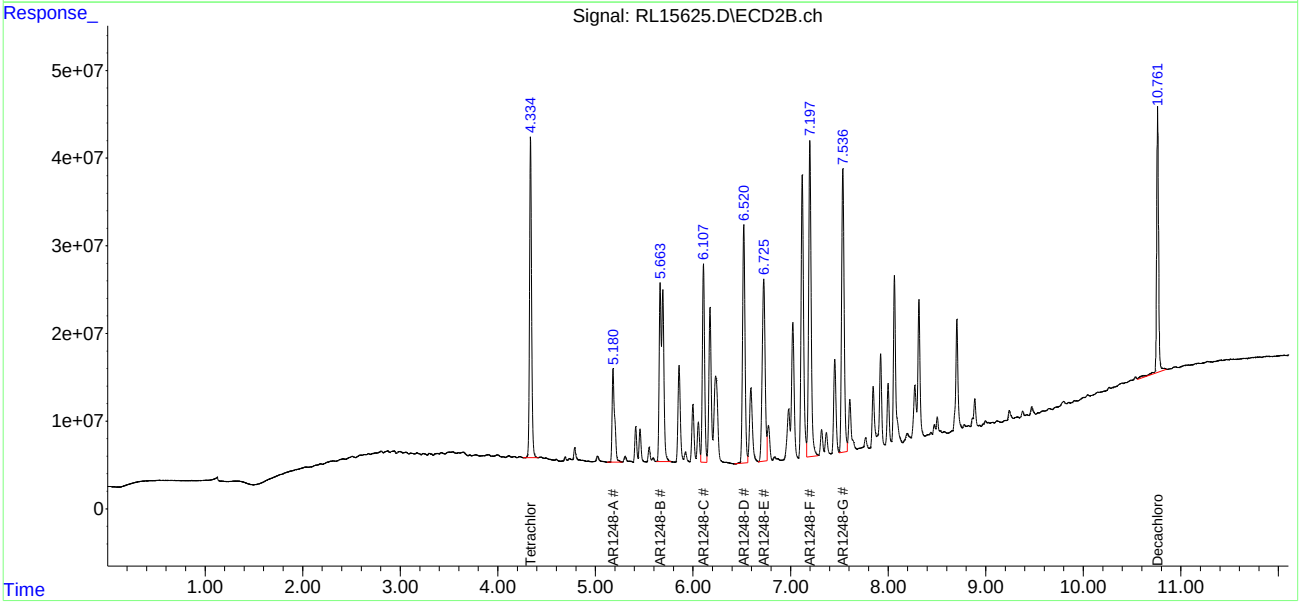
Quantitation Report (QT Reviewed)

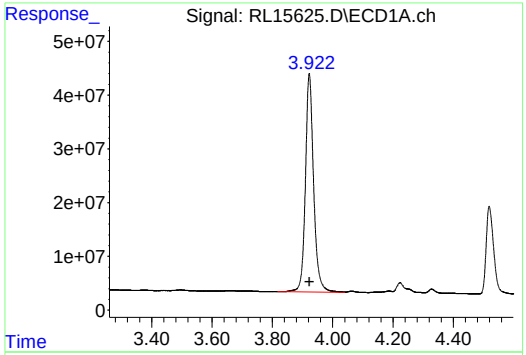
Data Path : C:\msdchem\1\data\grl343\
Data File : RL15625.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Apr 2024 07:02 am
Operator : christp
Sample : ic343-100
Misc : op54010,grl343,5.1,,,10,1
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 29 07:16:04 2024
Quant Method : C:\msdchem\1\methods\pcblvigcrl343a.m
Quant Title :
QLast Update : Mon Apr 29 07:16:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

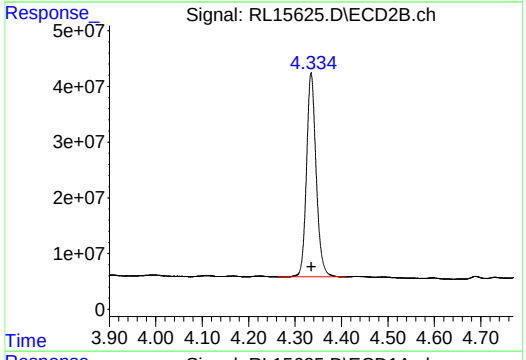






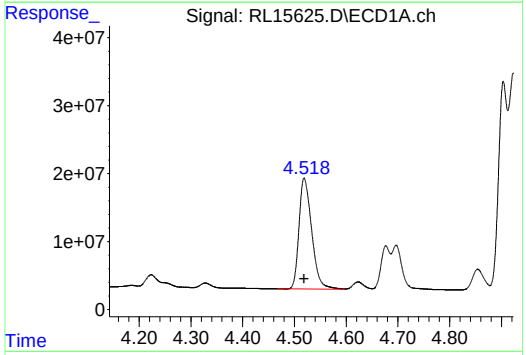
#1 Tetrachloro-m-xylene

R.T.: 3.923 min
Delta R.T.: 0.000 min
Response: 766764495
Conc: 3.95 ppb



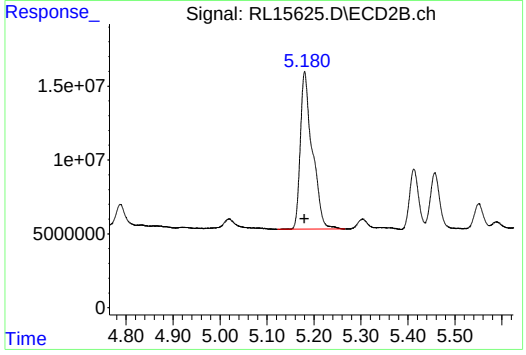
#1 Tetrachloro-m-xylene

R.T.: 4.335 min
Delta R.T.: 0.000 min
Response: 526063477
Conc: 3.67 ppb



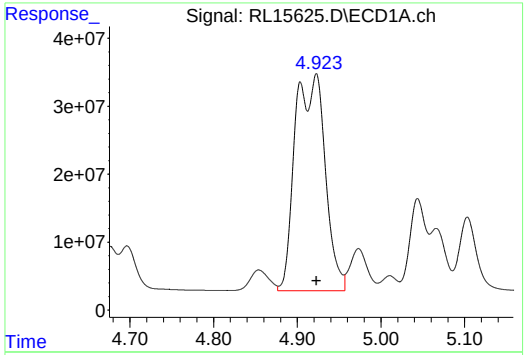
#17 AR1248-A

R.T.: 4.519 min
Delta R.T.: 0.000 min
Response: 277561660
Conc: 120.14 PPB



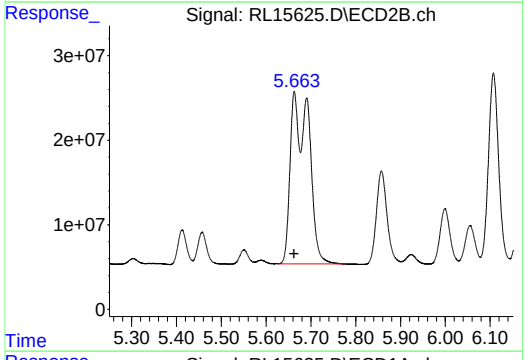
#17 AR1248-A

R.T.: 5.181 min
Delta R.T.: 0.000 min
Response: 189058308
Conc: 110.02 PPB



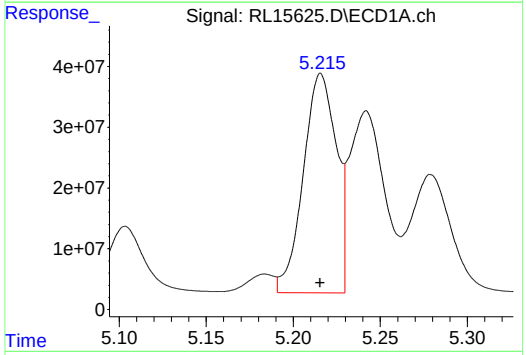
#18 AR1248-B

R.T.: 4.923 min
Delta R.T.: 0.000 min
Response: 794552342
Conc: 125.03 PPB m



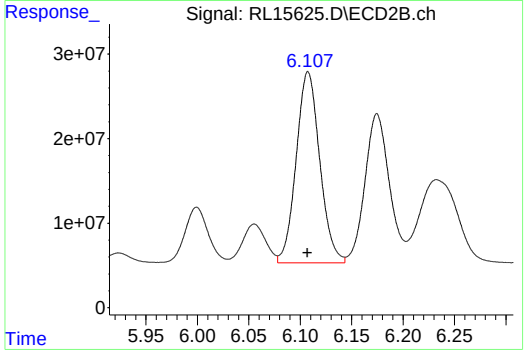
#18 AR1248-B

R.T.: 5.663 min
Delta R.T.: 0.000 min
Response: 579777363
Conc: 114.69 PPB m



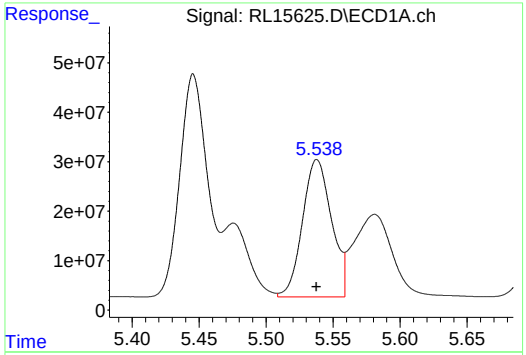
#19 AR1248-C

R.T.: 5.216 min
Delta R.T.: 0.000 min
Response: 476886009
Conc: 48.82 PPB



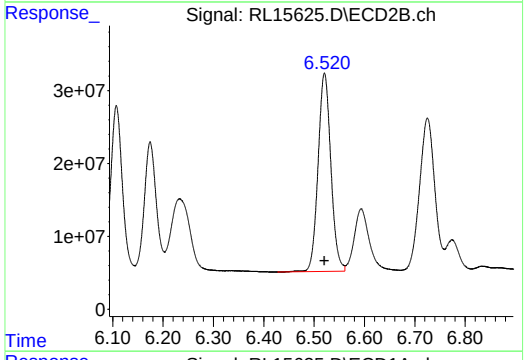
#19 AR1248-C

R.T.: 6.108 min
Delta R.T.: 0.000 min
Response: 360811837
Conc: 114.63 PPB



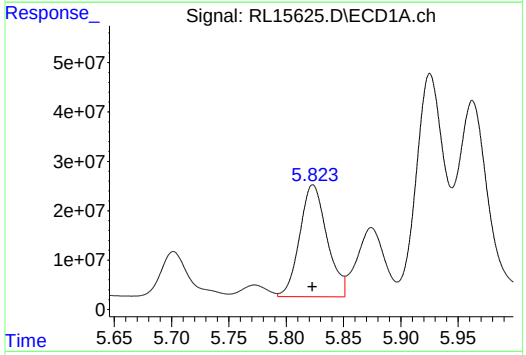
#20 AR1248-D

R.T.: 5.538 min
Delta R.T.: 0.000 min
Response: 419796123
Conc: 62.36 PPB



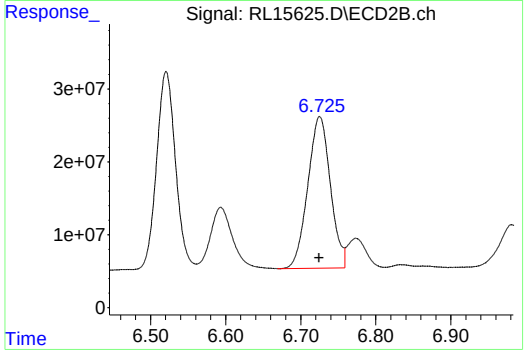
#20 AR1248-D

R.T.: 6.521 min
Delta R.T.: 0.000 min
Response: 478484048
Conc: 116.55 PPB



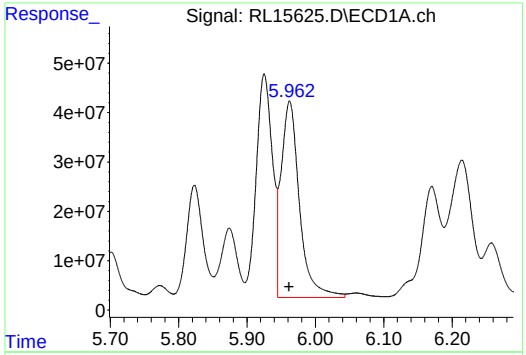
#21 AR1248-E

R.T.: 5.823 min
Delta R.T.: 0.000 min
Response: 375728187
Conc: 113.01 PPB



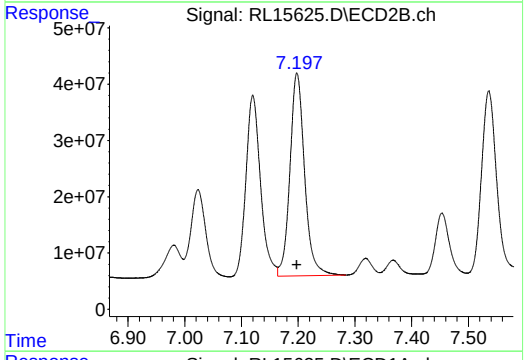
#21 AR1248-E

R.T.: 6.725 min
Delta R.T.: 0.000 min
Response: 434712982
Conc: 117.56 PPB



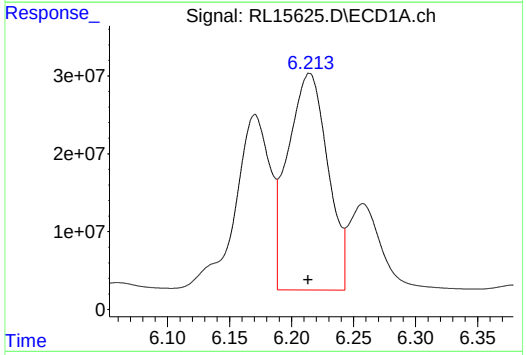
#22 AR1248-F

R.T.: 5.963 min
Delta R.T.: 0.000 min
Response: 742159033
Conc: 64.23 PPB



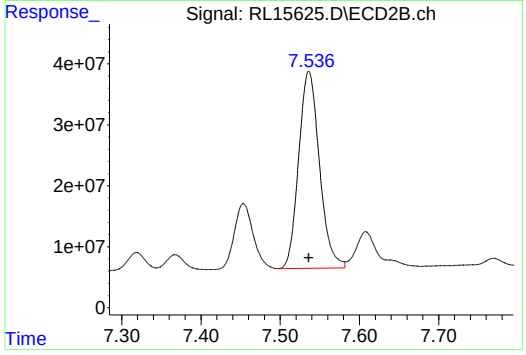
#22 AR1248-F

R.T.: 7.198 min
Delta R.T.: 0.000 min
Response: 646835804
Conc: 117.83 PPB



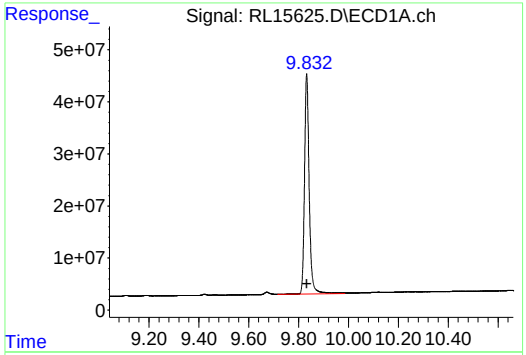
#23 AR1248-G

R.T.: 6.215 min
Delta R.T.: 0.001 min
Response: 623701032
Conc: 99.13 PPB



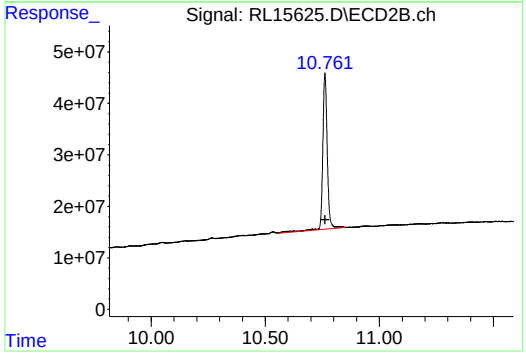
#23 AR1248-G

R.T.: 7.536 min
Delta R.T.: 0.000 min
Response: 589455220
Conc: 113.82 PPB



#51 Decachlorobiphenyl

R.T.: 9.833 min
Delta R.T.: 0.000 min
Response: 547923370
Conc: 4.83 ppb



#51 Decachlorobiphenyl

R.T.: 10.762 min
Delta R.T.: 0.000 min
Response: 416627898
Conc: 4.45 ppb

Manual Integrations
APPROVED
(compounds with "m" flag)
Rebecca Krug
06/20/24 02:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GRM547\
Data File : rm24624.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 07:56 pm
Operator : mahalial
Sample : ic547-100
Misc : op55413,grm547,5.0,,,10,1
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 01:21:41 2024
Quant Method : C:\msdchem\1\methods\lviPCBGRM547a.M
Quant Title :
QLast Update : Tue Jun 18 10:42:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
1) S	Tetrachlo...	3.884	4.320	511.3E6	430.8E6	4.009	4.725
	Spiked Amount 40.000			Recovery	=	10.02%	11.81%
51) S	Decachlor...	9.726	10.668	309.8E6	308.2E6	3.287m	3.725
	Spiked Amount 40.000			Recovery	=	8.22%	9.31%
	Target Compounds						
41)	AR1016-A	4.180	4.780	230.2E6	171.9E6	88.793	99.971
42)	AR1016-B	4.474	5.180	424.1E6	384.4E6	97.401	101.558
43)	AR1016-C	4.875	5.708	913.9E6	827.0E6	89.321m	100.319m
44)	AR1016-D	5.000	5.881	364.9E6	320.4E6	88.496	99.032
45)	AR1016-E	5.388	6.202	389.5E6	183.0E6	96.565	100.574
46)	AR1260-A	7.391	8.501	1267.6E6	846.8E6	120.641	159.628 #
47)	AR1260-B	7.879	8.949	746.2E6	681.1E6	99.993	164.341 #
48)	AR1260-C	8.161	9.228	601.6E6	606.3E6	93.775	135.116 #
49)	AR1260-D	8.494	9.433	1466.5E6	1396.1E6	98.186	137.420m#
50)	AR1260-E	8.776	9.749	1276.6E6	1229.3E6	89.577m	119.052 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

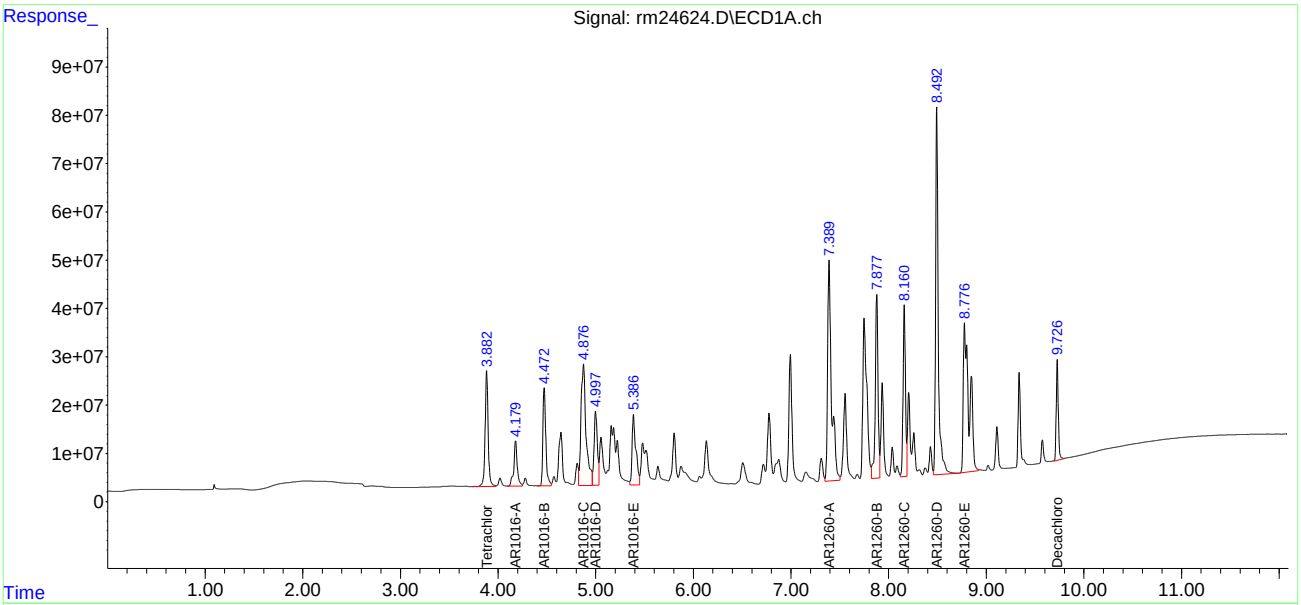
11.3.29
11

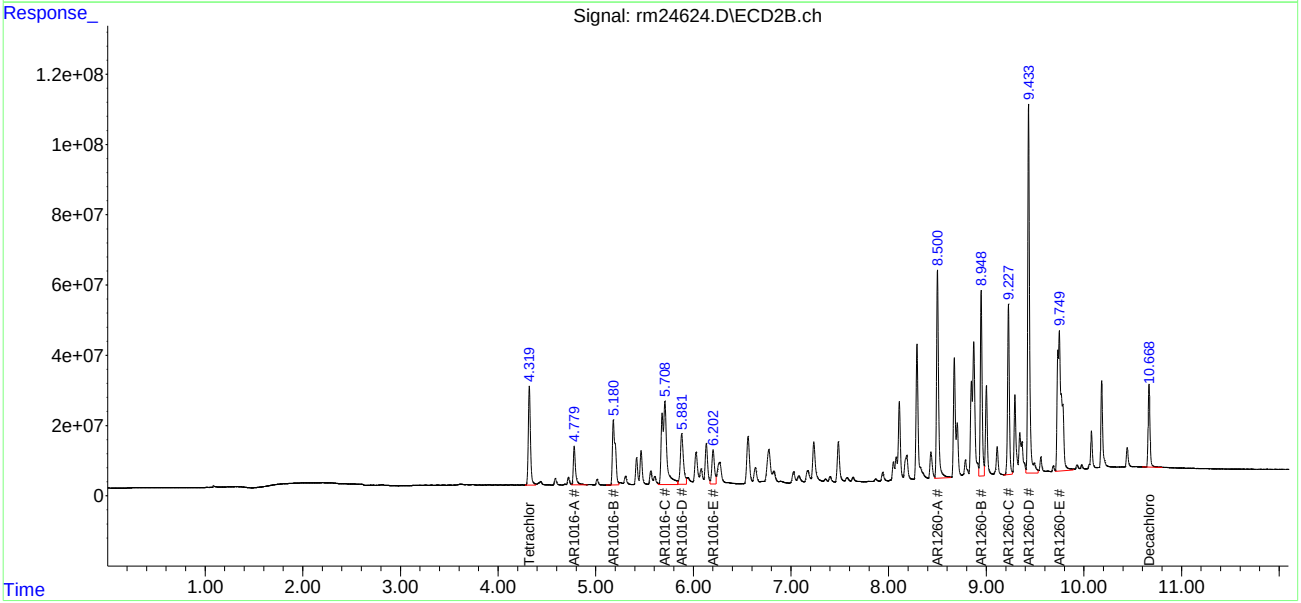
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GRM547\
Data File : rm24624.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 07:56 pm
Operator : mahalial
Sample : ic547-100
Misc : op55413,grm547,5.0,,,10,1
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 01:21:41 2024
Quant Method : C:\msdchem\1\methods\lviPCBGRM547a.M
Quant Title :
QLast Update : Tue Jun 18 10:42:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations
APPROVED
(compounds with "m" flag)
Rebecca Krug
06/20/24 02:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GRM547\
Data File : rm24631.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 09:56 pm
Operator : mahalial
Sample : ic547-100
Misc : op55413,grm547,5.0,,,10,1
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 01:52:36 2024
Quant Method : C:\msdchem\1\methods\lviPCBGRM547a.M
Quant Title :
QLast Update : Thu Jun 20 01:50:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
	Target Compounds						
2)	AR1221-A	3.443	3.897	91649059	68413043	99.024m	100.000
3)	AR1221-B	4.023	4.586	119.6E6	103.2E6	100.000	100.000
4)	AR1221-C	4.180	4.780	385.7E6	278.1E6	100.000	100.000
5)	AR1221-D	4.474	5.302	37702508	87271772	104.981m	105.790m
6)	AR1221-E	4.880	5.712	66982131	43856187	100.000	100.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

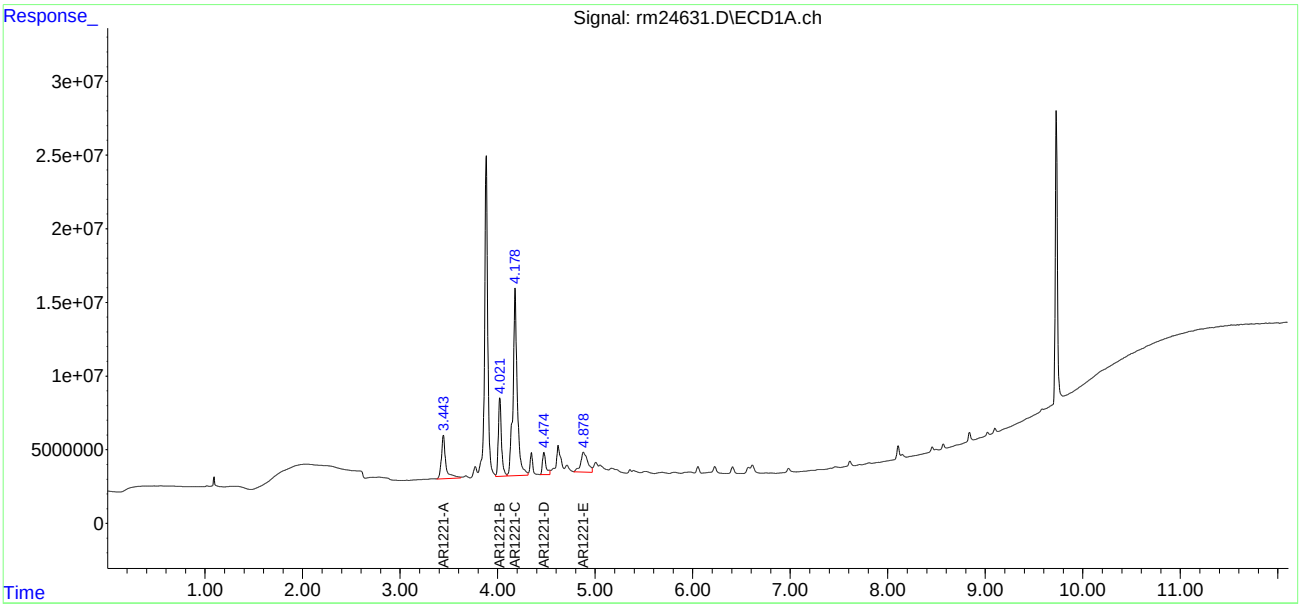
11.3.30
11

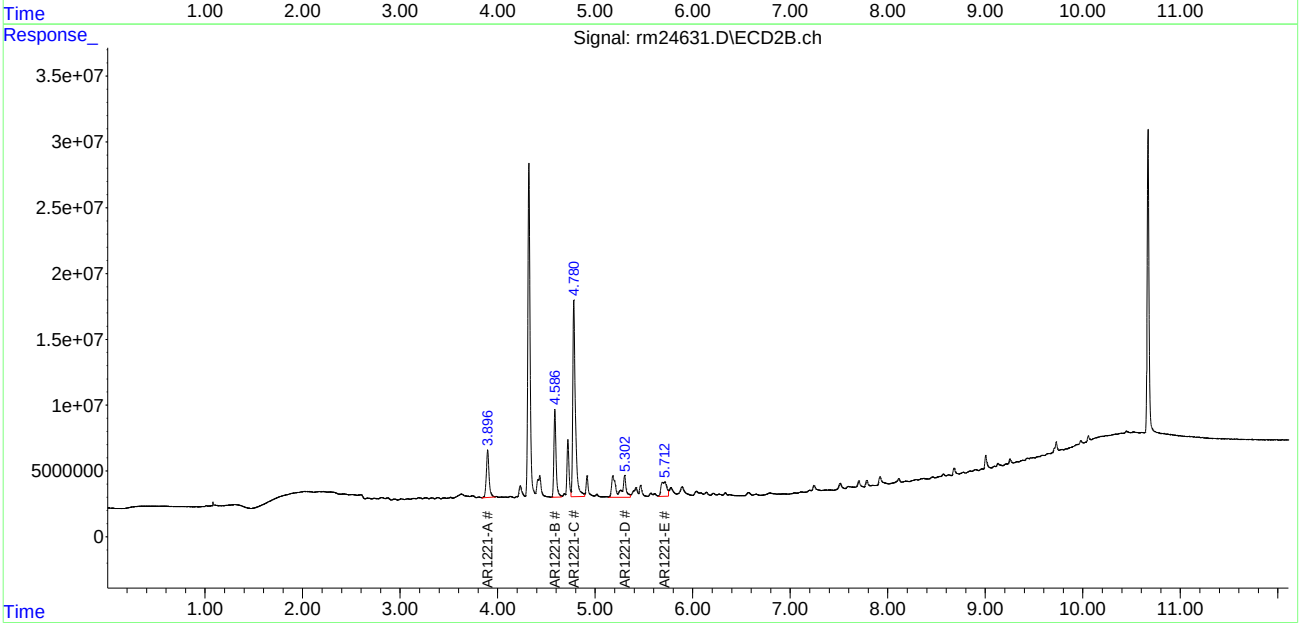
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GRM547\
Data File : rm24631.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 09:56 pm
Operator : mahalial
Sample : ic547-100
Misc : op55413,grm547,5.0,,,10,1
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 01:52:36 2024
Quant Method : C:\msdchem\1\methods\lviPCBGRM547a.M
Quant Title :
QLast Update : Thu Jun 20 01:50:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations
APPROVED
(compounds with "m" flag)
Rebecca Krug
06/20/24 02:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GRM547\
Data File : rm24632.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 10:13 pm
Operator : mahalial
Sample : ic547-100
Misc : op55413,grm547,5.0,,,10,1
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 01:36:07 2024
Quant Method : C:\msdchem\1\methods\lviPCBGRM547a.M
Quant Title :
QLast Update : Thu Jun 20 01:36:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
	Target Compounds						
24)	AR1254-A	5.804	7.234	393.6E6	431.6E6	94.246	117.228
25)	AR1254-B	6.131	7.484	671.0E6	497.1E6	82.904	122.147 #
26)	AR1254-C	6.527	7.939	380.6E6	333.8E6	82.414	106.104 #
27)	AR1254-D	6.717	8.077	758.1E6	752.3E6	92.311	109.043
28)	AR1254-E	7.157	8.326	577.3E6	512.0E6	79.049	67.205
29)	AR1254-F	7.393	8.674	599.3E6	475.4E6	90.668	96.299m
30)	AR1254-G	7.750	8.873	736.1E6	688.9E6	84.181	109.286 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

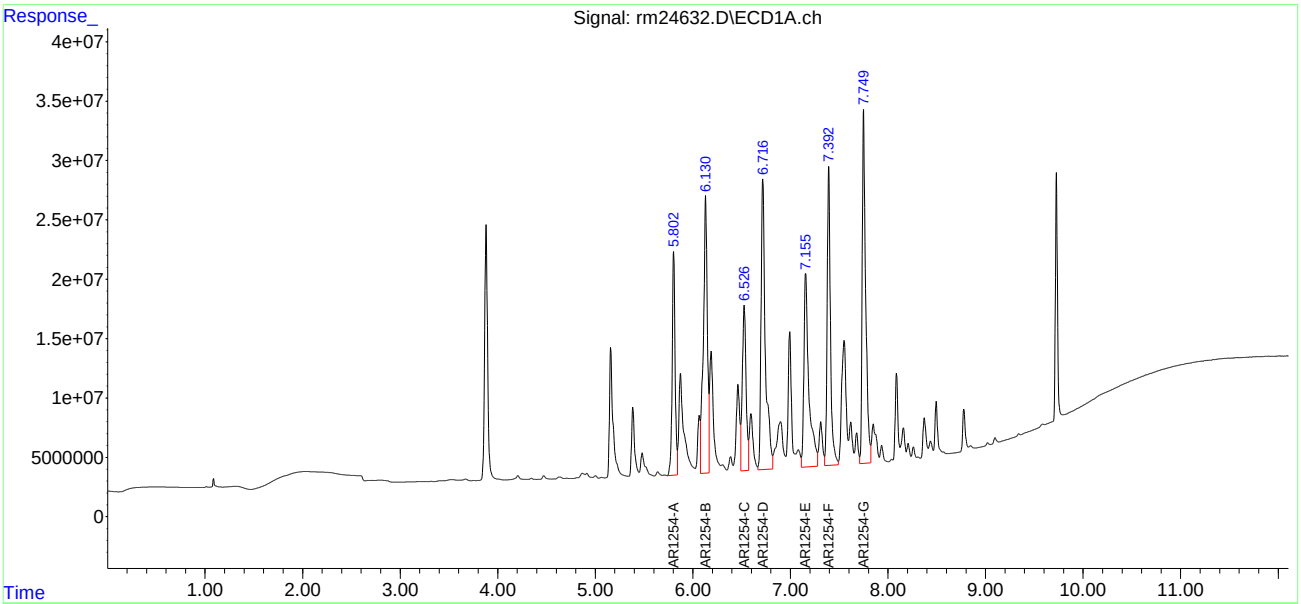
11.3.31
11

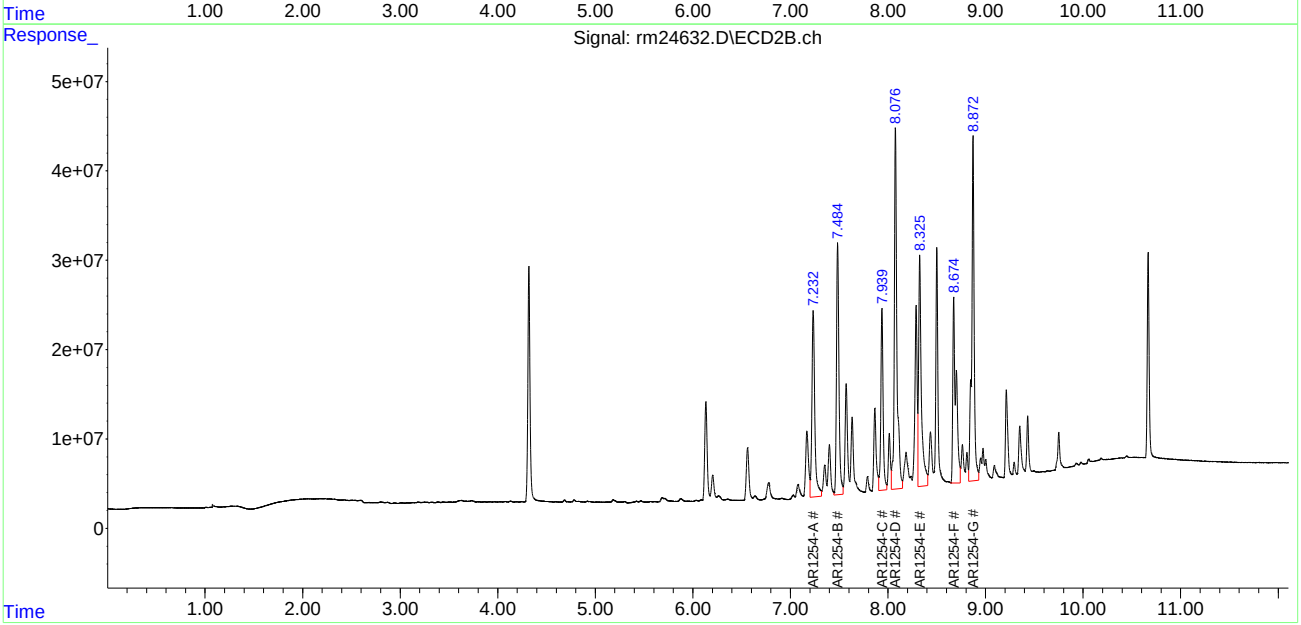
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GRM547\
Data File : rm24632.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 10:13 pm
Operator : mahalial
Sample : ic547-100
Misc : op55413,grm547,5.0,,,10,1
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 01:36:07 2024
Quant Method : C:\msdchem\1\methods\lviPCBGRM547a.M
Quant Title :
QLast Update : Thu Jun 20 01:36:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations
APPROVED
(compounds with "m" flag)
Rebecca Krug
06/20/24 02:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GRM547\
Data File : rm24633.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 10:31 pm
Operator : mahalial
Sample : ic547-100
Misc : op55413,grm547,5.0,,,10,1
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 01:37:37 2024
Quant Method : C:\msdchem\1\methods\lviPCBGRM547a.M
Quant Title :
QLast Update : Thu Jun 20 01:37:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
	Target Compounds						
7)	AR1232-A	4.179	4.780	261.0E6	198.2E6	85.965	101.533
8)	AR1232-B	4.473	5.180	172.5E6	155.6E6	92.396	98.236
9)	AR1232-C	4.878	5.710	347.3E6	301.5E6	82.543m	89.353m
10)	AR1232-D	5.004	5.884	141.2E6	135.7E6	81.297	102.009 #
11)	AR1232-E	5.391	6.565	133.5E6	86942651	84.032	94.269

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

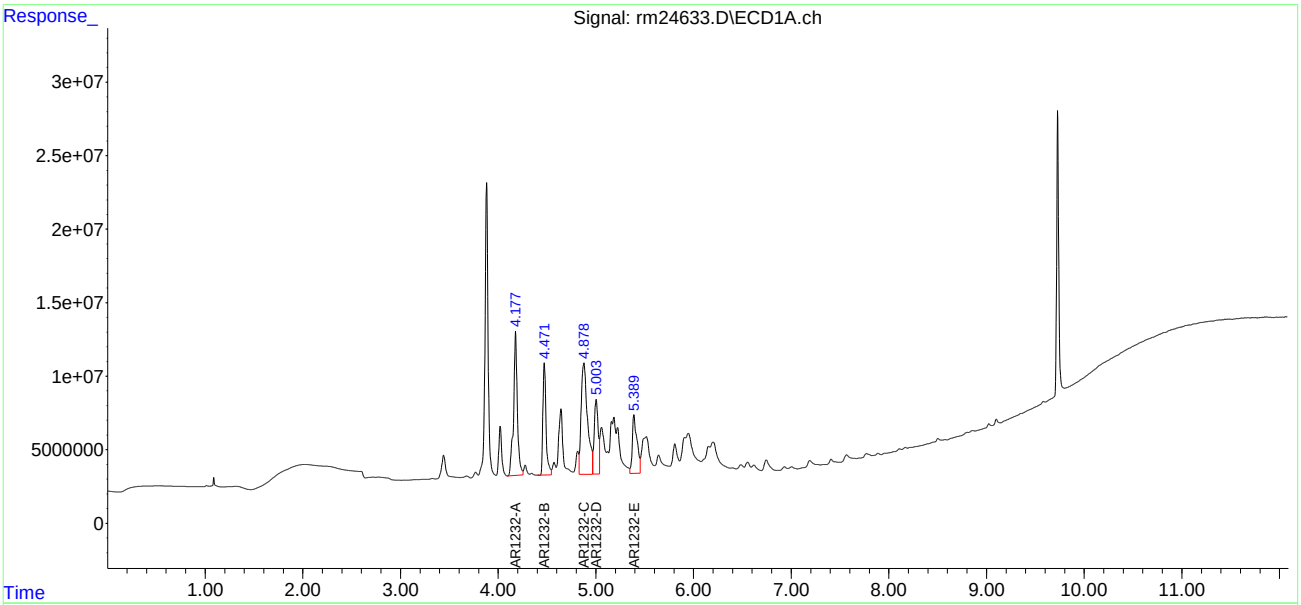
11.3.32
11

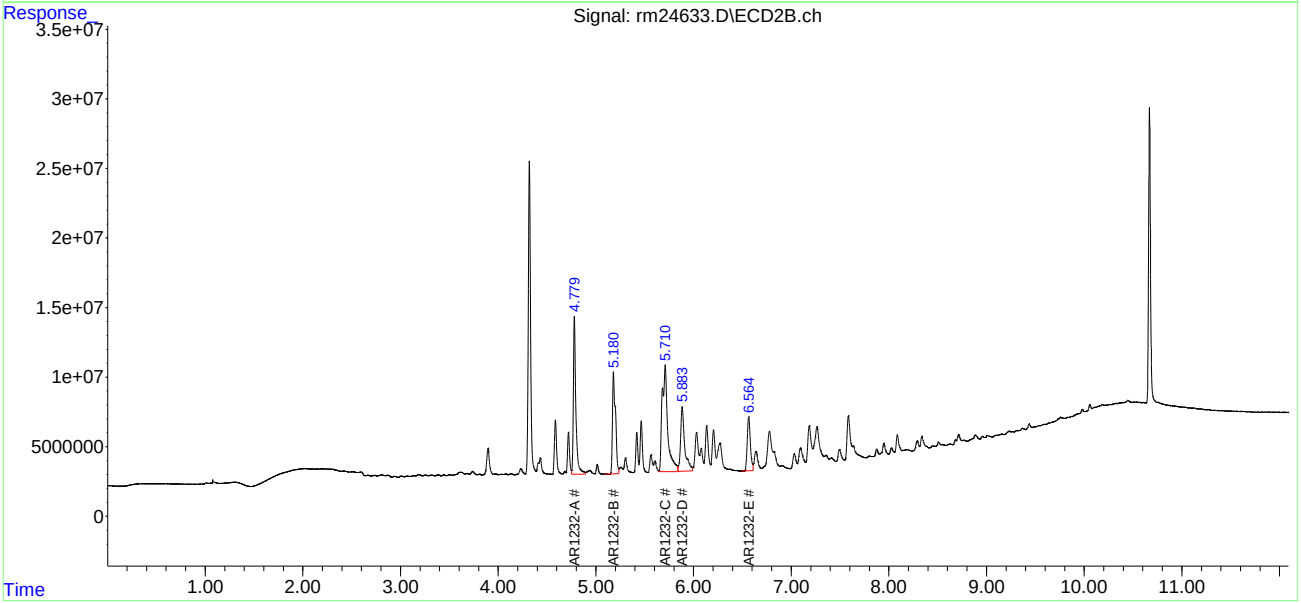
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GRM547\
Data File : rm24633.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 10:31 pm
Operator : mahalial
Sample : ic547-100
Misc : op55413,grm547,5.0,,,10,1
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 01:37:37 2024
Quant Method : C:\msdchem\1\methods\lviPCBGRM547a.M
Quant Title :
QLast Update : Thu Jun 20 01:37:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations
APPROVED
(compounds with "m" flag)
Rebecca Krug
06/20/24 02:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GRM547\
Data File : rm24634.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 10:48 pm
Operator : mahalial
Sample : ic547-100
Misc : op55413,grm547,5.0,,,10,1
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 01:39:00 2024
Quant Method : C:\msdchem\1\methods\lviPCBGRM547a.M
Quant Title :
QLast Update : Thu Jun 20 01:38:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
	Target Compounds						
31)	AR1262-A	7.394	8.504	607.4E6	598.8E6	75.035	143.584 #
32)	AR1262-B	7.881	8.950	974.8E6	915.2E6	90.116	152.331 #
33)	AR1262-C	8.161	9.229	711.9E6	691.3E6	86.975	128.181 #
34)	AR1262-D	8.495	9.435	1527.6E6	1408.0E6	85.185	117.582 #
35)	AR1262-E	8.803	9.733	1543.4E6	1467.9E6	85.323m	111.798m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

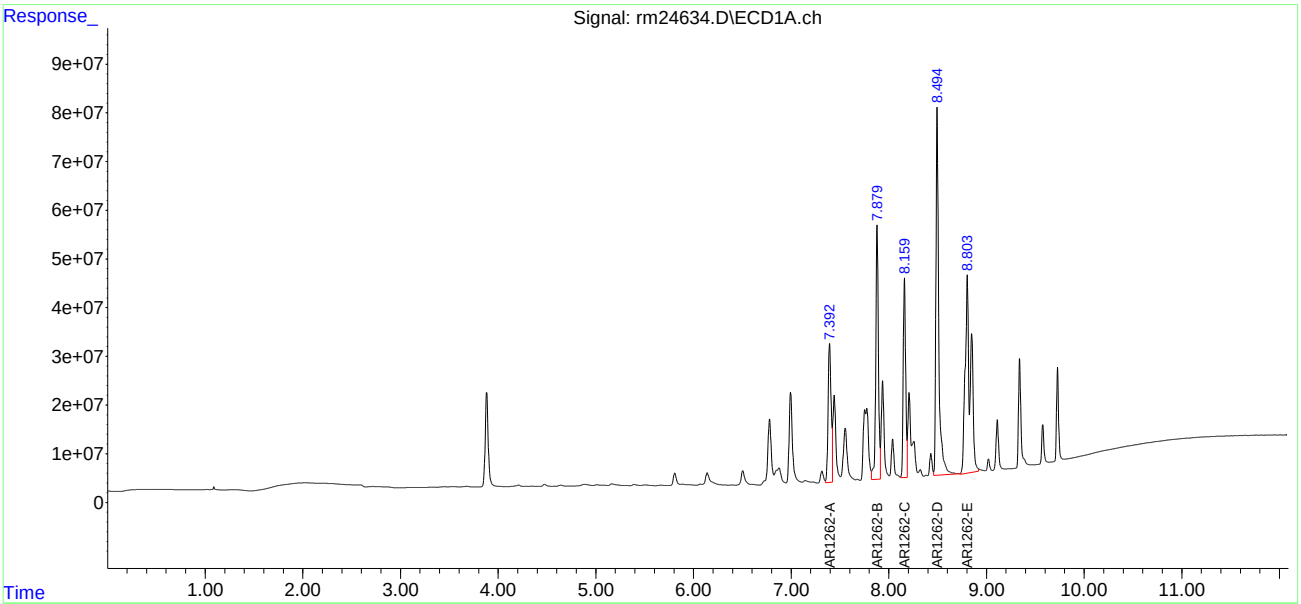
11.3.33
11

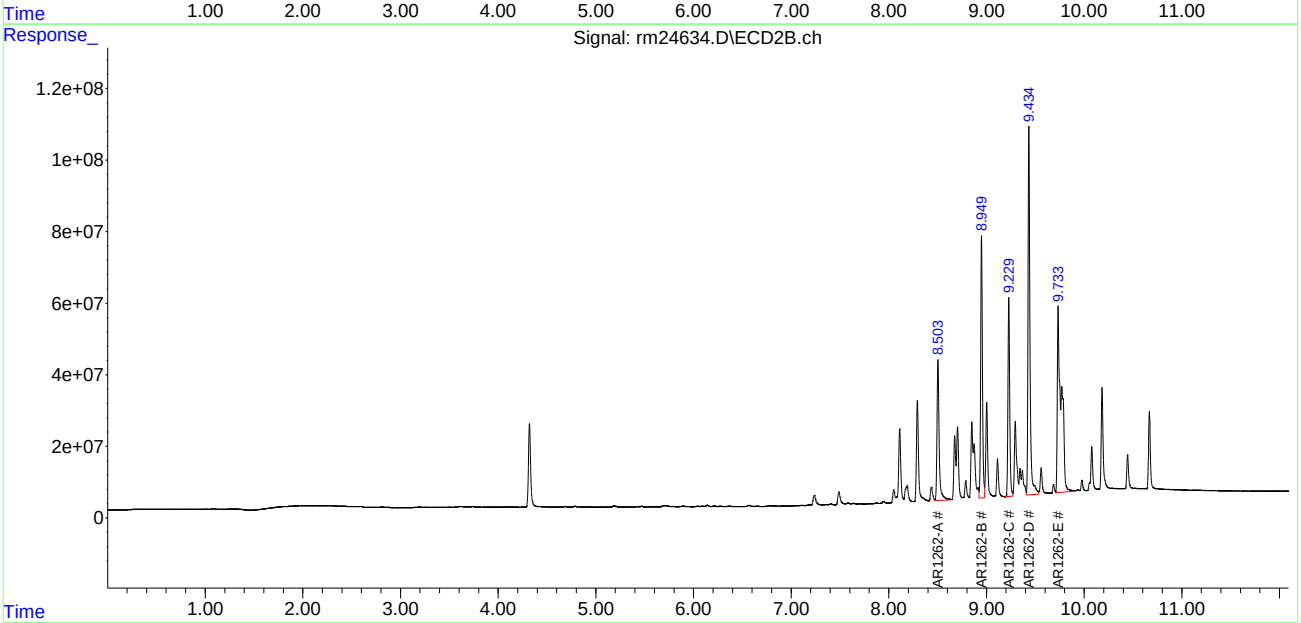
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GRM547\
Data File : rm24634.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 10:48 pm
Operator : mahalial
Sample : ic547-100
Misc : op55413,grm547,5.0,,,10,1
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 01:39:00 2024
Quant Method : C:\msdchem\1\methods\lviPCBGRM547a.M
Quant Title :
QLast Update : Thu Jun 20 01:38:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations
APPROVED
(compounds with "m" flag)
Rebecca Krug
06/20/24 02:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GRM547\
Data File : rm24635.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 11:05 pm
Operator : mahalial
Sample : ic547-100
Misc : op55413,grm547,5.0,,,10,1
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 01:41:00 2024
Quant Method : C:\msdchem\1\methods\lviPCBGRM547a.M
Quant Title :
QLast Update : Thu Jun 20 01:40:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
	Target Compounds						
12)	AR1242-A	4.473	5.181	334.2E6	300.9E6	94.079	101.494
13)	AR1242-B	4.878	5.710	707.8E6	634.3E6	91.054	99.775m
14)	AR1242-C	5.001	5.883	279.2E6	282.5E6	85.718	116.723 #
15)	AR1242-D	5.388	6.031	298.7E6	137.1E6	91.469	91.738
16)	AR1242-E	5.925	7.251	291.1E6	242.8E6	107.358	104.860

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

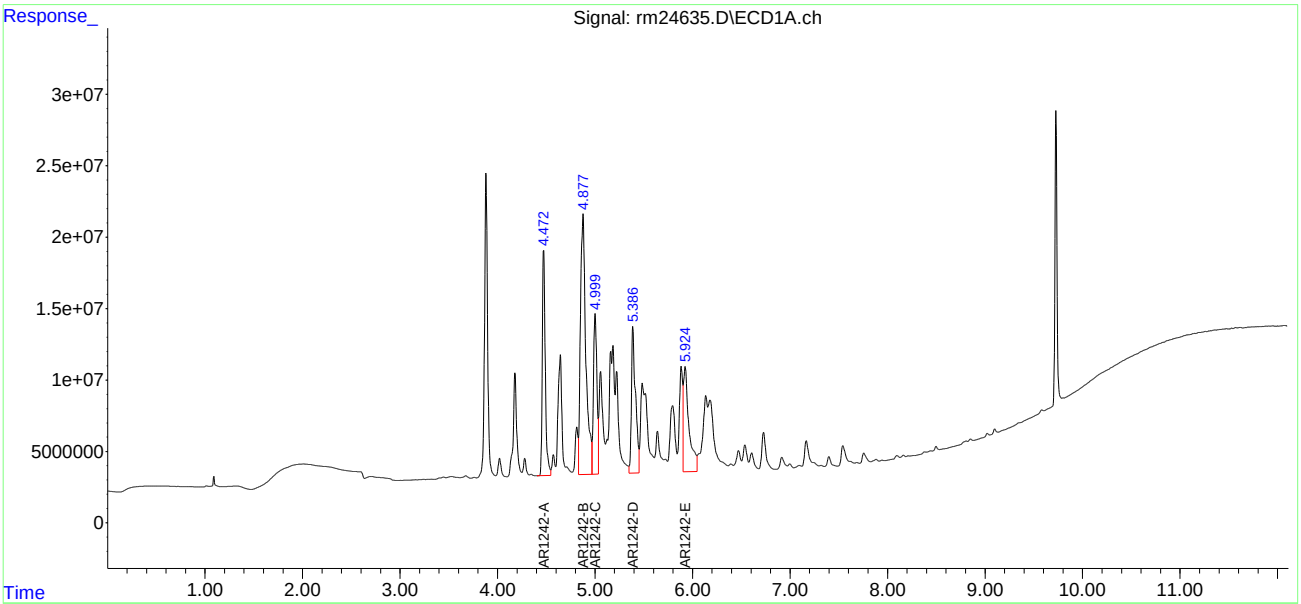
11.3.34
11

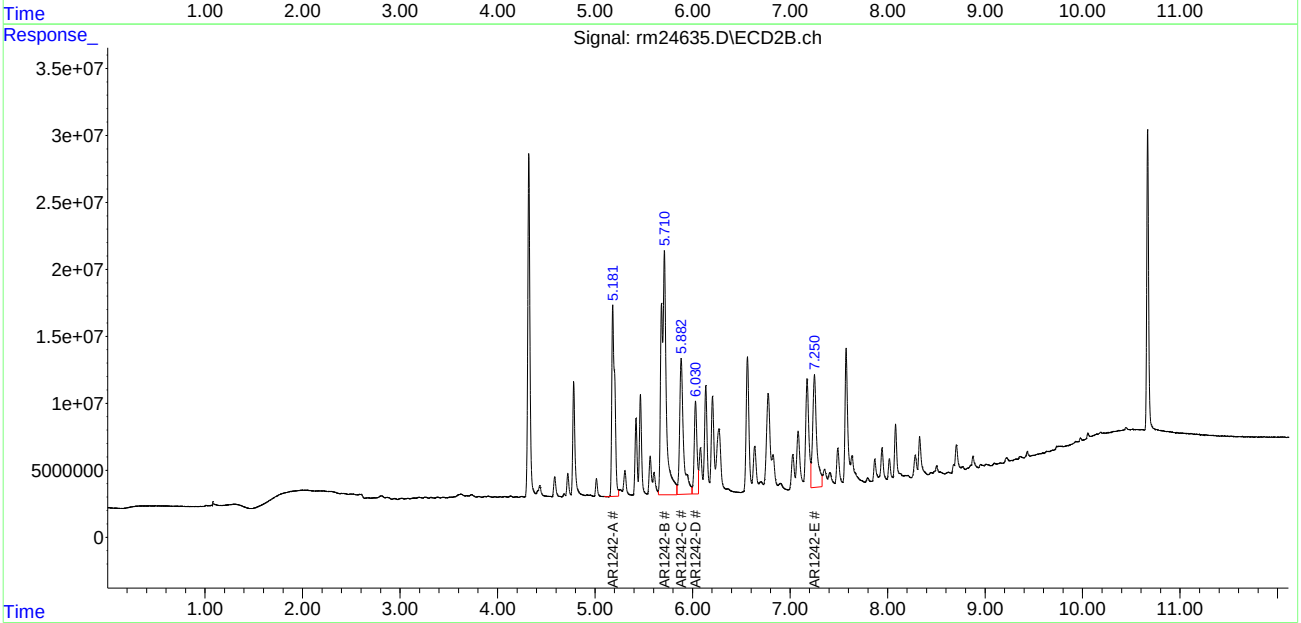
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GRM547\
Data File : rm24635.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 11:05 pm
Operator : mahalial
Sample : ic547-100
Misc : op55413,grm547,5.0,,,10,1
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 01:41:00 2024
Quant Method : C:\msdchem\1\methods\lviPCBGRM547a.M
Quant Title :
QLast Update : Thu Jun 20 01:40:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GRM547\
Data File : rm24636.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 11:23 pm
Operator : mahalial
Sample : ic547-100
Misc : op55413,grm547,5.0,,,10,1
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 01:42:28 2024
Quant Method : C:\msdchem\1\methods\lviPCBGRM547a.M
Quant Title :
QLast Update : Thu Jun 20 01:42:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
	Target Compounds						
36)	AR1268-A	8.803	9.733	1687.7E6	1729.8E6	85.644	120.607 #
37)	AR1268-B	8.842	9.773	1548.2E6	1534.7E6	94.709	111.371
38)	AR1268-C	9.020	9.977	1235.8E6	1252.8E6	93.439	113.020
39)	AR1268-D	9.337	10.184	441.7E6	457.3E6	75.704	98.614 #
40)	AR1268-E	9.574	10.445	2895.4E6	3112.9E6	83.220	90.415

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

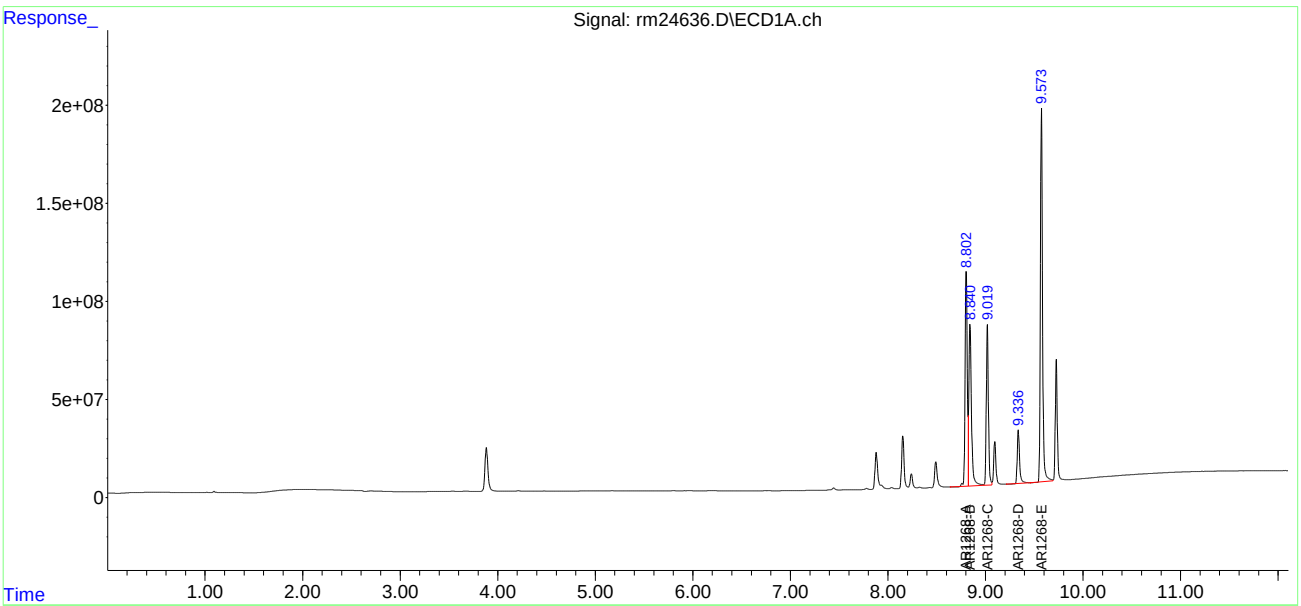
11.3.35 11

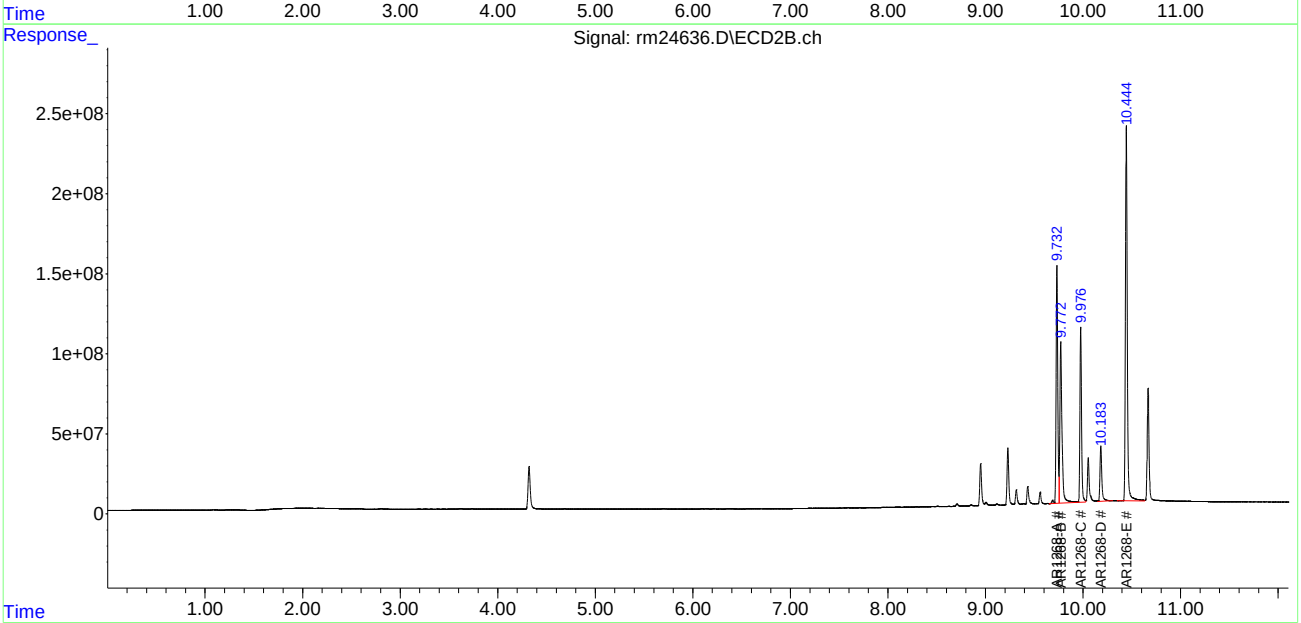
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GRM547\
Data File : rm24636.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 11:23 pm
Operator : mahalial
Sample : ic547-100
Misc : op55413,grm547,5.0,,,10,1
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 01:42:28 2024
Quant Method : C:\msdchem\1\methods\lviPCBGRM547a.M
Quant Title :
QLast Update : Thu Jun 20 01:42:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Manual Integrations
APPROVED
(compounds with "m" flag)
Rebecca Krug
06/20/24 02:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GRM547\
Data File : rm24637.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 11:40 pm
Operator : mahalial
Sample : ic547-100
Misc : op55413,grm547,5.0,,,10,1
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 01:43:52 2024
Quant Method : C:\msdchem\1\methods\lviPCBGRM547a.M
Quant Title :
QLast Update : Thu Jun 20 01:43:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
	Target Compounds						
17)	AR1248-A	4.473	5.181	146.4E6	133.7E6	92.360	104.554
18)	AR1248-B	4.876	5.681	429.9E6	354.9E6	91.876	94.307m
19)	AR1248-C	5.161	6.135	483.5E6	256.7E6	88.262	110.616 #
20)	AR1248-D	5.387	6.562	444.9E6	321.6E6	88.319	104.806
21)	AR1248-E	5.482	6.775	425.4E6	294.6E6	162.932	88.191 #
22)	AR1248-F	5.913	7.243	437.5E6	442.5E6	99.811	105.889
23)	AR1248-G	6.132	7.573	776.6E6	342.7E6	192.955	88.145 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

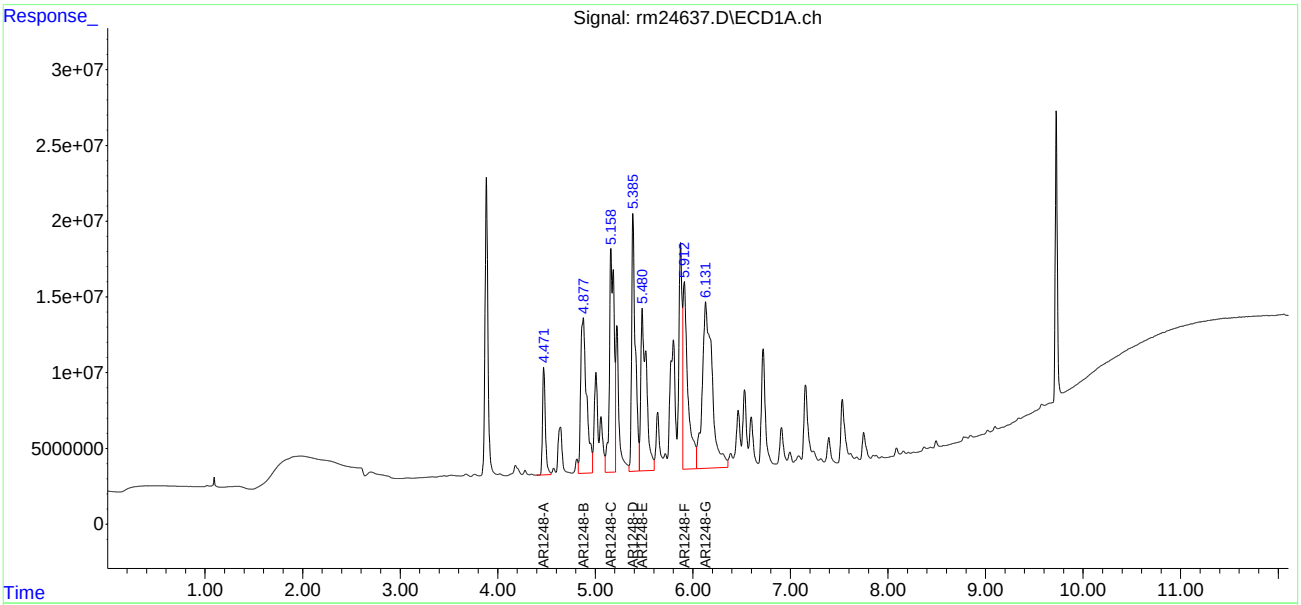
11.3.36
11

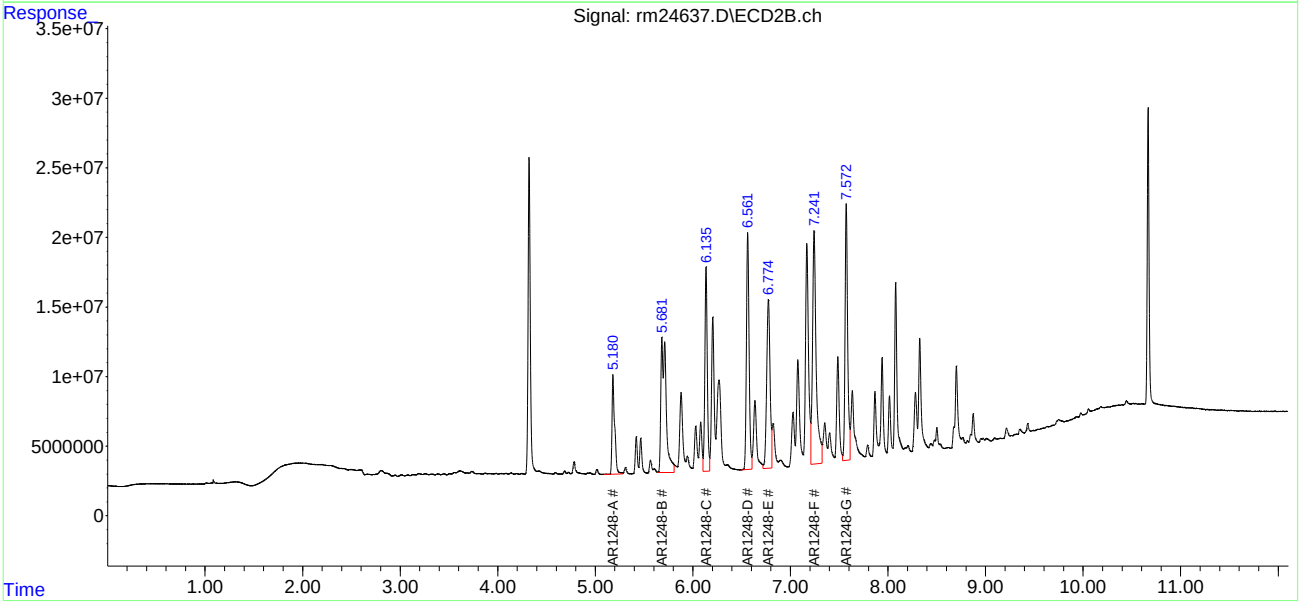
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\GRM547\
Data File : rm24637.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 18 Jun 2024 11:40 pm
Operator : mahalial
Sample : ic547-100
Misc : op55413,grm547,5.0,,,10,1
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 01:43:52 2024
Quant Method : C:\msdchem\1\methods\lviPCBGRM547a.M
Quant Title :
QLast Update : Thu Jun 20 01:43:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : ZB-CLP1 Signal #2 Phase: ZB-CLP2
Signal #1 Info : 30m X 0.32mm(.32u Signal #2 Info : 30m X 0.32 mm (.25um)





Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070224W1.CSV Date Analyzed: 07/02/24 Methods: SW846 7470A
Analyst: SS Run ID: MA56391
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:13	MA56391-STD1	1		b=2.0019e-004,c=5.4902e-001,rho=0.9991670
10:15	MA56391-STD2	1		STDB
10:17	MA56391-STD3	1		STDC
10:18	MA56391-STD4	1		STDD
10:20	MA56391-STD5	1		STDE
10:21	MA56391-STD6	1		STDF
10:33	ZZZZZZ	1		
10:35	MA56391-ICV1	1		
10:46	MA56391-ICB1	1		
10:48	MA56391-CCV1	1		
10:51	MA56391-CCB1	1		
10:55	MA56391-CRI1	1		
10:56	MP47621-MB1	1		
10:58	MP47621-B1	1		
10:59	MP47621-S1	1		
11:01	MP47621-S2	1		
11:02	JD91255-1	1		(sample used for QC only; not part of login JD91339)
11:04	ZZZZZZ	1		
11:06	ZZZZZZ	1		
11:07	ZZZZZZ	1		
11:14	MA56391-CCV2	1		
11:17	MA56391-CCB2	1		
11:20	ZZZZZZ	1		
11:21	ZZZZZZ	1		
11:23	ZZZZZZ	1		
11:24	JD91339-12	1		
---------->	Last reportable sample/prep for job JD91339			
11:26	ZZZZZZ	1		
11:27	MP47622-MB1	1		
11:29	MP47622-LB1	1		
11:35	MA56391-CCV3	1		
11:37	MA56391-CCB3	1		
---------->	Last reportable CCB for job JD91339			
11:41	MP47622-B1	1		
11:42	MP47622-LS1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070224W1.CSV Date Analyzed: 07/02/24 Methods: SW846 7470A
Analyst: SS Run ID: MA56391
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:44	MP47622-S1	1		
11:45	MP47622-S2	1		
11:47	JD91275-1	1		(sample used for QC only; not part of login JD91339)
11:49	ZZZZZZ	1		
11:50	ZZZZZZ	1		
11:52	ZZZZZZ	1		
11:53	MA56391-CCV4	1		
11:55	MA56391-CCB4	1		
11:57	ZZZZZZ	1		
11:58	ZZZZZZ	1		
12:00	ZZZZZZ	1		
12:01	ZZZZZZ	1		
12:03	ZZZZZZ	1		
12:04	MP47623-MB1	1		
12:06	MP47623-LB1	1		
12:07	MP47623-B1	1		
12:12	MA56391-CCV5	1		
12:14	MA56391-CCB5	1		
12:17	MP47623-LS1	1		
12:18	MP47623-S1	1		
12:20	MP47623-S2	1		
12:22	JD91205-1	1		(sample used for QC only; not part of login JD91339)
12:25	ZZZZZZ	1		
12:27	ZZZZZZ	1		
12:29	ZZZZZZ	1		
12:31	ZZZZZZ	1		
12:32	ZZZZZZ	1		
12:34	MA56391-CCV6	1		
12:38	MA56391-CCB6	1		
12:41	ZZZZZZ	1		
12:42	MP47624-MB1	1		
12:44	MP47624-LB1	1		
12:45	MP47624-B1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070224W1.CSV Date Analyzed: 07/02/24 Methods: SW846 7470A
Analyst: SS Run ID: MA56391
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:47	MP47624-LS1	1		
12:48	MP47624-S1	1		
12:50	MP47624-S2	1		
12:52	JD90793-2R	1		(sample used for QC only; not part of login JD91339)
12:54	MA56391-CCV7	1		
12:55	MA56391-CCB7	1		
12:57	MP47625-MB1	1		
12:59	MP47625-LB1	1		
13:00	MP47625-B1	1		
13:02	MP47625-LS1	1		
13:04	MP47625-S1	1		
13:05	MP47625-S2	1		
13:07	JD91230-1A	1		(sample used for QC only; not part of login JD91339)
13:09	ZZZZZZ	1		
13:10	MA56391-CCV8	1		
13:12	MA56391-CCB8	1		
13:13	ZZZZZZ	1		
13:15	ZZZZZZ	1		
13:20	MP47622-LS1	1		
13:21	MP47622-S2	1		
13:23	MP47623-LB1	1		
13:25	MA56391-CCV9	1		
13:26	MA56391-CCB9	1		
13:28	MP47623-S1	25		
13:29	MP47623-S2	25		
13:31	JD91205-1	25		(sample used for QC only; not part of login JD91339)
13:37	JD90793-2R	1		(sample used for QC only; not part of login JD91339)
13:43	MP47622-MB1	1		
13:45	MP47625-LB1	1		
13:46	MP47622-MB1	1		
13:48	MA56391-CCV10	1		
13:51	MA56391-CCB10	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070224W1.CSV Date Analyzed: 07/02/24 Methods: SW846 7470A
Analyst: SS Run ID: MA56391
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
10:33	ZZZZZZ	1		
10:35	MA56391-ICV1	1	X	
10:46	MA56391-ICB1	1	X	
10:48	MA56391-CCV1	1	X	
10:51	MA56391-CCB1	1	X	
10:55	MA56391-CRI1	1	X	
10:56	MP47621-MB1	1	X	
10:58	MP47621-B1	1	X	
10:59	MP47621-S1	1	X	
11:01	MP47621-S2	1	X	
11:02	JD91255-1	1	X	(a)
11:04	ZZZZZZ	1		
11:06	ZZZZZZ	1		
11:07	ZZZZZZ	1		
11:14	MA56391-CCV2	1	X	
11:17	MA56391-CCB2	1	X	
11:20	ZZZZZZ	1		
11:21	ZZZZZZ	1		
11:23	ZZZZZZ	1		
11:24	JD91339-12	1	X	
11:26	ZZZZZZ	1		
11:27	MP47622-MB1	1		
11:29	MP47622-LB1	1		
11:35	MA56391-CCV3	1	X	
11:37	MA56391-CCB3	1	X	
11:41	MP47622-B1	1	X	
11:42	MP47622-LS1	1		
11:44	MP47622-S1	1	X	
11:45	MP47622-S2	1		
11:47	JD91275-1	1	X	(a)
11:49	ZZZZZZ	1		
11:50	ZZZZZZ	1		
11:52	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070224W1.CSV Date Analyzed: 07/02/24 Methods: SW846 7470A
Analyst: SS Run ID: MA56391
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
11:53	MA56391-CCV4	1	X	
11:55	MA56391-CCB4	1	X	
11:57	ZZZZZZ	1		
11:58	ZZZZZZ	1		
12:00	ZZZZZZ	1		
12:01	ZZZZZZ	1		
12:03	ZZZZZZ	1		
12:04	MP47623-MB1	1	X	
12:06	MP47623-LB1	1		
12:07	MP47623-B1	1	X	
12:12	MA56391-CCV5	1	X	
12:14	MA56391-CCB5	1	X	
12:17	MP47623-LS1	1	X	
12:18	MP47623-S1	1		
12:20	MP47623-S2	1		
12:22	JD91205-1	1		
12:25	ZZZZZZ	1		
12:27	ZZZZZZ	1		
12:29	ZZZZZZ	1		
12:31	ZZZZZZ	1		
12:32	ZZZZZZ	1		
12:34	MA56391-CCV6	1	X	
12:38	MA56391-CCB6	1	X	
12:41	ZZZZZZ	1		
12:42	MP47624-MB1	1	X	
12:44	MP47624-LB1	1		
12:45	MP47624-B1	1	X	
12:47	MP47624-LS1	1	X	
12:48	MP47624-S1	1	X	
12:50	MP47624-S2	1	X	
12:52	JD90793-2R	1		(a)
12:54	MA56391-CCV7	1	X	
12:55	MA56391-CCB7	1	X	
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070224W1.CSV Date Analyzed: 07/02/24 Methods: SW846 7470A
Analyst: SS Run ID: MA56391
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
12:57	MP47625-MB1	1	X	
12:59	MP47625-LB1	1		
13:00	MP47625-B1	1	X	
13:02	MP47625-LS1	1	X	
13:04	MP47625-S1	1	X	
13:05	MP47625-S2	1	X	
13:07	JD91230-1A	1	X	(a)
13:09	ZZZZZZ	1		
13:10	MA56391-CCV8	1	X	
13:12	MA56391-CCB8	1	X	
13:13	ZZZZZZ	1		
13:15	ZZZZZZ	1		
13:20	MP47622-LS1	1	X	
13:21	MP47622-S2	1	X	
13:23	MP47623-LB1	1		
13:25	MA56391-CCV9	1	X	
13:26	MA56391-CCB9	1	X	
13:28	MP47623-S1	25	X	
13:29	MP47623-S2	25	X	
13:31	JD91205-1	25	X	(a)
13:37	JD90793-2R	1	X	(a)
13:43	MP47622-MB1	1		
13:45	MP47625-LB1	1		
13:46	MP47622-MB1	1	X	
13:48	MA56391-CCV10	1	X	
13:51	MA56391-CCB10	1	X	

(a) Sample used for QC only; not part of login JD91339.

Element: Hg

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070224W1.CSV Date Analyzed: 07/02/24 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA56391 Units: ug/l

Time:			10:46		10:51		11:17		11:37	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.04	-0.0544	<0.20	-0.127	<0.20	-0.140	<0.20	-0.0724	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070224W1.CSV Date Analyzed: 07/02/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56391 Units: ug/l

Time:		10:35			10:48			11:14	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	2.98	99.3	2.5	2.46	98.4	2.5	2.54	101.6

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070224W1.CSV Date Analyzed: 07/02/24 Methods: SW846 7470A
QC Limits: 90 to 110 % Recovery Run ID: MA56391 Units: ug/l

Time:		11:35	
Sample ID:	CCV	CCV3	
Metal	True	Results	% Rec
Mercury	2.5	2.37	94.8

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H9070224W1.CSV Date Analyzed: 07/02/24 Methods: SW846 7470A
QC Limits: 70 to 130 % Recovery Run ID: MA56391 Units: ug/l

Time:			10:55	
Sample ID:	CRI	CRIA	CRI1	
Metal	True	True	Results	% Rec
Mercury	0.20		0.167	83.5

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56395
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:24	MA56395-STD1	1		STDA
13:29	MA56395-STD2	1		STDB
13:35	MA56395-ICV1	1		
13:41	MA56395-ICB1	1		
13:46	MA56395-CCV1	1		
13:51	MA56395-CCB1	1		
13:56	MA56395-CRI1	1		
14:01	MA56395-CRID1	1		
14:06	MA56395-ICSA1	1		
14:11	MA56395-ICSAB1	1		
14:16	MA56395-HSTD1	1		
14:22	MA56395-HSTD2	1		
14:28	ZZZZZZ	1		
14:34	MA56395-HSTD3	1		
14:40	ZZZZZZ	1		
14:45	ZZZZZZ	1		
14:50	MA56395-CCV2	1		
14:55	MA56395-CCB2	1		
15:00	MA56395-CRI2	1		
15:05	ZZZZZZ	1		
15:10	ZZZZZZ	1		
15:15	ZZZZZZ	1		
15:20	ZZZZZZ	1		
15:26	ZZZZZZ	1		
15:32	ZZZZZZ	1		
15:37	ZZZZZZ	1		
15:42	ZZZZZZ	1		
15:46	ZZZZZZ	1		
15:51	MA56395-CCV3	1		
15:57	MA56395-CCB3	1		
16:02	ZZZZZZ	1		
16:07	ZZZZZZ	1		
16:13	MP47605-MB1	1		rerun for Zn with the rest of the batch

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56395
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:18	MP47605-B1	1		
16:23	ZZZZZZ	1		
16:28	ZZZZZZ	1		
16:33	ZZZZZZ	1		
16:38	ZZZZZZ	1		
16:43	ZZZZZZ	1		
16:48	MP47605-S1	1		
16:53	MA56395-CCV4	1		
16:58	MA56395-CCB4	1		
17:03	ZZZZZZ	1		
17:08	ZZZZZZ	1		
17:13	ZZZZZZ	1		
17:18	ZZZZZZ	1		
17:23	ZZZZZZ	1		
17:28	ZZZZZZ	1		
17:33	MP47605-S2	1		
17:39	JD91373-1	1		(sample used for QC only; not part of login JD91339)
17:44	MP47605-SD1	5		rerun for Zn
17:49	MP47605-PS1	1		
17:54	MA56395-CCV5	1		
17:59	MA56395-CCB5	1		
18:04	ZZZZZZ	1		
18:09	ZZZZZZ	1		
18:14	MP47600-MB1	1		
18:19	MP47600-B1	1		
18:24	MP47600-S1	1		
18:29	MP47600-S2	1		
18:35	JD91339-1	1		
18:40	MP47600-SD1	5		
18:44	MP47600-PS1	1		
18:50	JD91339-2	1		
18:55	MA56395-CCV6	1		
19:00	MA56395-CCB6	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56395
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:05	JD91339-3	1		
19:10	JD91339-4	1		
19:15	JD91339-5	1		
19:20	JD91339-6	1		
19:25	JD91339-7	1		
19:30	JD91339-8	1		
19:35	JD91339-9	1		
19:40	JD91339-10	1		
19:45	JD91339-11	1		
19:50	ZZZZZZ	1		
19:55	MA56395-CCV7	1		
20:01	MA56395-CCB7	1		
20:06	ZZZZZZ	1		
20:11	ZZZZZZ	1		
20:16	ZZZZZZ	1		
20:21	ZZZZZZ	1		
20:26	ZZZZZZ	1		
20:31	ZZZZZZ	1		
20:36	ZZZZZZ	1		
20:41	ZZZZZZ	1		
20:46	ZZZZZZ	1		
20:51	ZZZZZZ	1		
20:56	MA56395-CCV8	1		
21:01	MA56395-CCB8	1		
21:06	ZZZZZZ	1		
21:11	ZZZZZZ	1		
21:16	ZZZZZZ	1		
21:21	ZZZZZZ	1		
21:26	MP47607-B1	1		
21:31	MP47607-MB1	1		
21:36	MP47607-S1	1		
21:41	MP47607-S2	1		
21:47	JD91365-5	1		(sample used for QC only; not part of login JD91339)

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56395
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:52	MP47607-SD1	5		
21:57	MA56395-CCV9	1		
22:02	MA56395-CCB9	1		
22:07	ZZZZZZ	1		
22:12	ZZZZZZ	1		
22:17	ZZZZZZ	1		
22:22	ZZZZZZ	1		
22:27	ZZZZZZ	1		
22:32	ZZZZZZ	1		
22:37	ZZZZZZ	1		
22:42	JD91339-12	1		
---------->	Last reportable sample/prep for job JD91339			
22:47	ZZZZZZ	1		
22:52	ZZZZZZ	1		
22:57	MA56395-CCV10	1		
23:02	MA56395-CCB10	1		
---------->	Last reportable CCB for job JD91339			
23:07	ZZZZZZ	1		
23:13	ZZZZZZ	1		
23:17	ZZZZZZ	1		
23:23	MP47590-B1	1		
23:28	MP47590-MB1	1		rerun for Pb
23:33	MP47590-S1	1		Y saturation. Ba, MG, Na high. Rerun straight and on dilution
23:38	MP47590-S2	1		Y saturation. Ba, MG, Na high. Rerun straight and on dilution
23:44	JD91255-4	1		(sample used for QC only; not part of login JD91339)
23:49	MP47590-SD1	5		Ba, MG, Na high. rerun only on dilution
23:54	ZZZZZZ	1		
23:59	MA56395-CCV11	1		
00:04	MA56395-CCB11	1		
00:09	ZZZZZZ	1		
00:14	ZZZZZZ	1		
00:19	ZZZZZZ	1		
00:24	ZZZZZZ	1		
00:29	MP47608-B1	1		Y saturation
00:34	MP47608-MB1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56395
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
00:39	MP47608-S1	1		
00:44	MP47608-S2	1		
00:49	JD91364-4	1		(sample used for QC only; not part of login JD91339)
00:54	MP47608-SD1	5		
00:59	MA56395-CCV12	1		
01:04	MA56395-CCB12	1		
01:09	ZZZZZZ	1		
01:14	ZZZZZZ	1		
01:19	ZZZZZZ	1		
01:24	ZZZZZZ	1		
01:29	ZZZZZZ	1		
01:34	ZZZZZZ	1		
01:39	ZZZZZZ	1		
01:43	ZZZZZZ	1		
01:48	ZZZZZZ	1		
01:53	MA56395-CCV13	1		
01:58	MA56395-CCB13	1		
02:03	MP47611-MB1	1		
02:08	MP47611-LB1	1		
02:13	MP47611-B1	1		
02:18	MP47611-LS1	1		
02:23	MP47611-S1	1		
02:28	MP47611-S2	1		
02:34	JD91196-1B	1		(sample used for QC only; not part of login JD91339)
02:38	MP47611-SD1	5		
02:43	MA56395-CCV14	1		
02:49	MA56395-CCB14	1		
02:54	MP47613-MB1	1		
02:59	MP47613-LB1	1		
03:04	MP47613-B1	1		
03:09	MP47613-B2	1		missed tube
03:14	MP47613-LS1	5		
03:19	MP47613-S1	5		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56395
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
03:24	MP47613-S2	5		
03:29	JD91205-1	5		(sample used for QC only; not part of login JD91339)
03:34	MP47613-SD1	25		
03:39	ZZZZZZ	5		
03:44	ZZZZZZ	5		
03:49	MA56395-CCV15	1		
03:54	MA56395-CCB15	1		
03:59	ZZZZZZ	5		
04:04	ZZZZZZ	5		
04:09	ZZZZZZ	5		
04:14	ZZZZZZ	5		
04:19	ZZZZZZ	5		
04:24	ZZZZZZ	5		
04:29	ZZZZZZ	5		
04:34	ZZZZZZ	5		
04:39	ZZZZZZ	5		
04:44	ZZZZZZ	5		
04:50	MA56395-CCV16	1		
04:55	MA56395-CCB16	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56395
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn
13:35	MA56395-ICV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13:41	MA56395-ICB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13:46	MA56395-CCV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13:51	MA56395-CCB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13:56	MA56395-CRI1	1																						
14:01	MA56395-CRID1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14:06	MA56395-ICSA1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14:11	MA56395-ICSAB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14:16	MA56395-HSTD1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14:22	MA56395-HSTD2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14:28	ZZZZZZ	1																						
14:34	MA56395-HSTD3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14:40	ZZZZZZ	1																						
14:45	ZZZZZZ	1																						
14:50	MA56395-CCV2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14:55	MA56395-CCB2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15:00	MA56395-CRI2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15:05	ZZZZZZ	1																						
15:10	ZZZZZZ	1																						
15:15	ZZZZZZ	1																						
15:20	ZZZZZZ	1																						
15:26	ZZZZZZ	1																						
15:32	ZZZZZZ	1																						
15:37	ZZZZZZ	1																						
15:42	ZZZZZZ	1																						
15:46	ZZZZZZ	1																						
15:51	MA56395-CCV3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15:57	MA56395-CCB3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16:02	ZZZZZZ	1																						
16:07	ZZZZZZ	1																						
16:13	MP47605-MB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:18	MP47605-B1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16:23	ZZZZZZ	1																						
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn

REPORTED ELEMENTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56395
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
16:28	ZZZZZZ	1																							
16:33	ZZZZZZ	1																							
16:38	ZZZZZZ	1																							
16:43	ZZZZZZ	1																							
16:48	MP47605-S1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:53	MA56395-CCV4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:58	MA56395-CCB4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:03	ZZZZZZ	1																							
17:08	ZZZZZZ	1																							
17:13	ZZZZZZ	1																							
17:18	ZZZZZZ	1																							
17:23	ZZZZZZ	1																							
17:28	ZZZZZZ	1																							
17:33	MP47605-S2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:39	JD91373-1	1			X	X		X		X				X						X	X				(a)
17:44	MP47605-SD1	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
17:49	MP47605-PS1	1		X																					
17:54	MA56395-CCV5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:59	MA56395-CCB5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:04	ZZZZZZ	1																							
18:09	ZZZZZZ	1																							
18:14	MP47600-MB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:19	MP47600-B1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:24	MP47600-S1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:29	MP47600-S2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:35	JD91339-1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:40	MP47600-SD1	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:44	MP47600-PS1	1		X																					
18:50	JD91339-2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:55	MA56395-CCV6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:00	MA56395-CCB6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:05	JD91339-3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:10	JD91339-4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56395
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
19:15	JD91339-5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:20	JD91339-6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:25	JD91339-7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:30	JD91339-8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:35	JD91339-9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:40	JD91339-10	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:45	JD91339-11	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:50	ZZZZZZ	1																							
19:55	MA56395-CCV7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:01	MA56395-CCB7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:06	ZZZZZZ	1																							
20:11	ZZZZZZ	1																							
20:16	ZZZZZZ	1																							
20:21	ZZZZZZ	1																							
20:26	ZZZZZZ	1																							
20:31	ZZZZZZ	1																							
20:36	ZZZZZZ	1																							
20:41	ZZZZZZ	1																							
20:46	ZZZZZZ	1																							
20:51	ZZZZZZ	1																							
20:56	MA56395-CCV8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:01	MA56395-CCB8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:06	ZZZZZZ	1																							
21:11	ZZZZZZ	1																							
21:16	ZZZZZZ	1																							
21:21	ZZZZZZ	1																							
21:26	MP47607-B1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:31	MP47607-MB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:36	MP47607-S1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:41	MP47607-S2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:47	JD91365-5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	(a)
21:52	MP47607-SD1	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:57	MA56395-CCV9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56395
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: / Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
22:02	MA56395-CCB9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22:07	ZZZZZZ	1																							
22:12	ZZZZZZ	1																							
22:17	ZZZZZZ	1																							
22:22	ZZZZZZ	1																							
22:27	ZZZZZZ	1																							
22:32	ZZZZZZ	1																							
22:37	ZZZZZZ	1																							
22:42	JD91339-12	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22:47	ZZZZZZ	1																							
22:52	ZZZZZZ	1																							
22:57	MA56395-CCV10	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23:02	MA56395-CCB10	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23:07	ZZZZZZ	1																							
23:13	ZZZZZZ	1																							
23:17	ZZZZZZ	1																							
23:23	MP47590-B1	1	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	
23:28	MP47590-MB1	1	X	X		X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		X	X	
23:33	MP47590-S1	1	Y	saturation. Ba, MG, Na high. Rerun straight and on dilution																					
23:38	MP47590-S2	1	Y	saturation. Ba, MG, Na high. Rerun straight and on dilution																					
23:44	JD91255-4	1	X	X		X	X	X	X	X	X	X			X	X	X	X	X			X	X	X	(a)
23:49	MP47590-SD1	5	X	X		X	X	X	X	X	X	X			X	X	X	X	X			X	X	X	
23:54	ZZZZZZ	1																							
23:59	MA56395-CCV11	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
00:04	MA56395-CCB11	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
00:09	ZZZZZZ	1																							
00:14	ZZZZZZ	1																							
00:19	ZZZZZZ	1																							
00:24	ZZZZZZ	1																							
00:29	MP47608-B1	1	X		X		X						X			X		X		X		X		X	
00:34	MP47608-MB1	1	X		X		X						X		X	X		X		X		X	X	X	
00:39	MP47608-S1	1	X		X		X						X		X	X		X		X		X	X	X	
00:44	MP47608-S2	1	X		X		X						X		X	X		X		X		X	X	X	
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56395
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
00:49	JD91364-4	1	X		X		X						X		X	X			X			X	X	X	(a)
00:54	MP47608-SD1	5	X		X		X						X		X	X			X			X	X	X	
00:59	MA56395-CCV12	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
01:04	MA56395-CCB12	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
01:09	ZZZZZZ	1																							
01:14	ZZZZZZ	1																							
01:19	ZZZZZZ	1																							
01:24	ZZZZZZ	1																							
01:29	ZZZZZZ	1																							
01:34	ZZZZZZ	1																							
01:39	ZZZZZZ	1																							
01:43	ZZZZZZ	1																							
01:48	ZZZZZZ	1																							
01:53	MA56395-CCV13	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
01:58	MA56395-CCB13	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
02:03	MP47611-MB1	1	X		X																				
02:08	MP47611-LB1	1																							
02:13	MP47611-B1	1	X		X																				
02:18	MP47611-LS1	1	X		X																				
02:23	MP47611-S1	1	X		X																				
02:28	MP47611-S2	1	X		X																				
02:34	JD91196-1B	1	X		X										X										(a)
02:38	MP47611-SD1	5	X		X																				
02:43	MA56395-CCV14	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
02:49	MA56395-CCB14	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
02:54	MP47613-MB1	1			X	X		X		X			X							X	X				
02:59	MP47613-LB1	1																							
03:04	MP47613-B1	1			X	X		X		X			X							X	X				
03:09	MP47613-B2	1	missed tube																						
03:14	MP47613-LS1	5			X	X		X		X			X							X	X				
03:19	MP47613-S1	5			X	X		X		X			X							X	X				
03:24	MP47613-S2	5			X	X		X		X			X							X	X				
03:29	JD91205-1	5			X	X		X		X			X							X	X				(a)
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56395
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn
03:34	MP47613-SD1	25			X	X		X		X				X					X	X				
03:39	ZZZZZZ	5																						
03:44	ZZZZZZ	5																						
03:49	MA56395-CCV15	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
03:54	MA56395-CCB15	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
03:59	ZZZZZZ	5																						
04:04	ZZZZZZ	5																						
04:09	ZZZZZZ	5																						
04:14	ZZZZZZ	5																						
04:19	ZZZZZZ	5																						
04:24	ZZZZZZ	5																						
04:29	ZZZZZZ	5																						
04:34	ZZZZZZ	5																						
04:39	ZZZZZZ	5																						
04:44	ZZZZZZ	5																						
04:50	MA56395-CCV16	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
04:55	MA56395-CCB16	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

(a) Sample used for QC only; not part of login JD91339.

Element: Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni K Se Ag Na Tl V Zn

INTERNAL STANDARD SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56395
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
13:24	MA56395-STD1	5889 R	114510 R	26695 R	14130 R
13:29	MA56395-STD2	5643	109850	27908	12619
13:35	MA56395-ICV1	5742	113210	27643	12962
13:41	MA56395-ICB1	5782	110090	26316	13934
13:46	MA56395-CCV1	5648	104110	25991	12824
13:51	MA56395-CCB1	5742	108410	25694	13880
13:56	MA56395-CRI1	No results reported for the elements associated with this internal standard.			
14:01	MA56395-CRID1	5767	109660	25979	13909
14:06	MA56395-ICSA1	5369	98283	25982	11600
14:11	MA56395-ICSAB1	5344	97979	25891	11568
14:16	MA56395-HSTD1	5741	110670	27903	13733
14:22	MA56395-HSTD2	5384	103070	26741	11615
14:28	ZZZZZZ	5767	114320	27355	14145
14:34	MA56395-HSTD3	5750	112580	29097	13752
14:40	ZZZZZZ	6024	102790	27076	12641
14:45	ZZZZZZ	5268	98841	24952	11909
14:50	MA56395-CCV2	5584	102720	25454	12656
14:55	MA56395-CCB2	5733	107540	25366	13817
15:00	MA56395-CRI2	5681	107350	25268	13571
15:05	ZZZZZZ	5740	107810	25590	13703
15:10	ZZZZZZ	5718	109420	25727	13791
15:15	ZZZZZZ	5256	95631	25150	11390
15:20	ZZZZZZ	999999 !	109300	27718	999999 !
15:26	ZZZZZZ	10534 !	109340	27291	23878 !
15:32	ZZZZZZ	5770	110300	26033	13343
15:37	ZZZZZZ	5703	114620	26295	13849
15:42	ZZZZZZ	5682	114420	26768	13626
15:46	ZZZZZZ	5607	108260	25384	13573
15:51	MA56395-CCV3	5552	101170	24998	12612
15:57	MA56395-CCB3	5657	104470	24874	13684
16:02	ZZZZZZ	5336	100480	25367	12275
16:07	ZZZZZZ	999999 !	108350	27353	999999 !
16:13	MP47605-MB1	5522	105760	25161	13420

INTERNAL STANDARD SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56395
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:18	MP47605-B1	5470	101240	24988	12668
16:23	ZZZZZZ	5267	999999 !	25005	11385
16:28	ZZZZZZ	5341	100020	24773	11725
16:33	ZZZZZZ	5639	105690	25705	12886
16:38	ZZZZZZ	5764	108860	26515	12936
16:43	ZZZZZZ	No results reported for the elements associated with this internal standard.			
16:48	MP47605-S1	5734	111060	27417	12841
16:53	MA56395-CCV4	5586	108240	26901	12635
16:58	MA56395-CCB4	5713	108070	25049	13731
17:03	ZZZZZZ	5512	103620	24224	13310
17:08	ZZZZZZ	5471	101990	23855	13353
17:13	ZZZZZZ	5475	102820	24161	13361
17:18	ZZZZZZ	5502	104140	24295	13291
17:23	ZZZZZZ	5557	103750	24324	13419
17:28	ZZZZZZ	5516	106610	24598	13438
17:33	MP47605-S2	5591	105030	26151	12498
17:39	JD91373-1	5606	107460	25652	12795
17:44	MP47605-SD1	5792	113230	26504	13513
17:49	MP47605-PS1	5570	110230	27652	12618
17:54	MA56395-CCV5	5639	106510	26071	12756
17:59	MA56395-CCB5	5708	107810	25307	13770
18:04	ZZZZZZ	5660	105360	25855	13092
18:09	ZZZZZZ	5402	99147	25013	11643
18:14	MP47600-MB1	5823	110500	25777	14050
18:19	MP47600-B1	5721	108370	26484	13171
18:24	MP47600-S1	5820	106520	26551	13149
18:29	MP47600-S2	5810	107170	26825	13177
18:35	JD91339-1	6003	110340	27415	13763
18:40	MP47600-SD1	5930	114970	27439	13853
18:44	MP47600-PS1	5813	115090	28517	13239
18:50	JD91339-2	6060	117030	28380	13589
18:55	MA56395-CCV6	5690	104610	26097	12883
19:00	MA56395-CCB6	5768	107870	25564	13928

INTERNAL STANDARD SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56395
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
19:05	JD91339-3	6014	111350	27099	13570
19:10	JD91339-4	6006	110880	26653	13827
19:15	JD91339-5	6147	110840	27515	13656
19:20	JD91339-6	6037	108430	27260	13647
19:25	JD91339-7	6175	113210	27509	13768
19:30	JD91339-8	6203	115070	28712	13716
19:35	JD91339-9	6147	118100	28528	13737
19:40	JD91339-10	6279	122190	29257	13720
19:45	JD91339-11	6310	120760	29527	13780
19:50	ZZZZZZ	6091	114540	28352	13305
19:55	MA56395-CCV7	5705	105760	26201	12912
20:01	MA56395-CCB7	5822	111410	25903	14040
20:06	ZZZZZZ	6029	112710	27542	13633
20:11	ZZZZZZ	6094	113540	27634	13715
20:16	ZZZZZZ	6420	120650	29444	13602
20:21	ZZZZZZ	6106	116200	28056	13665
20:26	ZZZZZZ	6129	120860	28795	13475
20:31	ZZZZZZ	6056	118130	28570	13206
20:36	ZZZZZZ	6085	111140	27881	13479
20:41	ZZZZZZ	6231	113510	28248	14190
20:46	ZZZZZZ	5786	999999 !a	25810	13379
20:51	ZZZZZZ	5686	106950	25815	13034
20:56	MA56395-CCV8	5743	110870	27539	12952
21:01	MA56395-CCB8	5897	115970	26618	14147
21:06	ZZZZZZ	5809	114750	27453	13238
21:11	ZZZZZZ	5862	114790	28219	13188
21:16	ZZZZZZ	5798	110650	26907	13263
21:21	ZZZZZZ	5663	106890	25787	12988
21:26	MP47607-B1	5770	106750	26360	13272
21:31	MP47607-MB1	5833	111080	26183	14111
21:36	MP47607-S1	5717	106610	26629	12871
21:41	MP47607-S2	5720	108230	26855	12855
21:47	JD91365-5	5748	112270	27120	13334

INTERNAL STANDARD SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56395
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
21:52	MP47607-SD1	5879	115060	27199	13955
21:57	MA56395-CCV9	5811	112500	27733	13093
22:02	MA56395-CCB9	5922	117300	27348	14238
22:07	ZZZZZZ	No results reported for the elements associated with this internal standard.			
22:12	ZZZZZZ	5998	118910	27612	14381
22:17	ZZZZZZ	6034	118240	28113	14504
22:22	ZZZZZZ	5652	107690	26665	12867
22:27	ZZZZZZ	5514	105010	25654	12522
22:32	ZZZZZZ	5675	106580	26141	12963
22:37	ZZZZZZ	5656	106900	26210	12854
22:42	JD91339-12	5885	110810	26578	14250
22:47	ZZZZZZ	5487	104410	26400	12186
22:52	ZZZZZZ	5585	107790	26279	12724
22:57	MA56395-CCV10	5793	111590	27591	13079
23:02	MA56395-CCB10	5932	116920	27561	14297
23:07	ZZZZZZ	5396	103990	26117	11960
23:13	ZZZZZZ	5664	111070	26606	13006
23:17	ZZZZZZ	5293	102030	26156	11433
23:23	MP47590-B1	5870	112060	27621	13464
23:28	MP47590-MB1	5901	116460	27258	14238
23:33	MP47590-S1	No results reported for the elements associated with this internal standard.			
23:38	MP47590-S2	No results reported for the elements associated with this internal standard.			
23:44	JD91255-4	4768	89820	25167	9920
23:49	MP47590-SD1	5452	103380	26671	11898
23:54	ZZZZZZ	4662	85025	24687	9476 !a
23:59	MA56395-CCV11	5835	112040	27426	13183
00:04	MA56395-CCB11	5946	115710	27029	14310
00:09	ZZZZZZ	5932	114110	27549	14247
00:14	ZZZZZZ	5813	113480	27044	13668
00:19	ZZZZZZ	5853	114360	27193	13823
00:24	ZZZZZZ	5900	113830	27099	13909
00:29	MP47608-B1	5863	999999 !a	27489	13480
00:34	MP47608-MB1	5940	115180	27084	14345

INTERNAL STANDARD SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56395
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
00:39	MP47608-S1	5826	111560	27781	13383
00:44	MP47608-S2	5828	112650	27496	13384
00:49	JD91364-4	5912	115410	27228	14078
00:54	MP47608-SD1	5923	115270	27049	14302
00:59	MA56395-CCV12	5776	108570	27229	13121
01:04	MA56395-CCB12	5841	113700	26625	14169
01:09	ZZZZZZ	5865	112540	26933	13927
01:14	ZZZZZZ	5876	112120	27107	13813
01:19	ZZZZZZ	5945	113360	27256	14021
01:24	ZZZZZZ	6010	117180	27691	14340
01:29	ZZZZZZ	5973	117400	27731	14108
01:34	ZZZZZZ	5951	115760	28076	13922
01:39	ZZZZZZ	5997	117450	27822	14254
01:43	ZZZZZZ	5972	117680	27679	14081
01:48	ZZZZZZ	5988	118440	27928	14293
01:53	MA56395-CCV13	5862	113420	27581	13245
01:58	MA56395-CCB13	5968	118100	27399	14372
02:03	MP47611-MB1	6005	118680	27465	14470
02:08	MP47611-LB1	6011	118160	27722	14464
02:13	MP47611-B1	5902	115210	27874	13542
02:18	MP47611-LS1	5874	115270	28072	13510
02:23	MP47611-S1	5878	114850	27773	13472
02:28	MP47611-S2	5899	109020	27582	13509
02:34	JD91196-1B	5953	117440	27535	14303
02:38	MP47611-SD1	5977	116490	27261	14390
02:43	MA56395-CCV14	5818	111330	27678	13163
02:49	MA56395-CCB14	5915	116260	27251	14292
02:54	MP47613-MB1	5967	117010	27372	14426
02:59	MP47613-LB1	5298	99433	26667	11279
03:04	MP47613-B1	5854	115190	28081	13455
03:09	MP47613-B2	No results reported for the elements associated with this internal standard.			
03:14	MP47613-LS1	5740	110730	27274	12683
03:19	MP47613-S1	5421	105600	26804	11935

INTERNAL STANDARD SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56395
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
03:24	MP47613-S2	5450	106290	26880	12037
03:29	JD91205-1	5372	104750	26645	11943
03:34	MP47613-SD1	5746	111950	27100	13380
03:39	ZZZZZZ	5637	108610	27057	12507
03:44	ZZZZZZ	5616	108210	26981	12361
03:49	MA56395-CCV15	5752	111040	27528	13036
03:54	MA56395-CCB15	5950	117730	27401	14365
03:59	ZZZZZZ	5655	109360	27166	12469
04:04	ZZZZZZ	5620	108250	26996	12412
04:09	ZZZZZZ	5666	109760	26919	12548
04:14	ZZZZZZ	5659	109240	26900	12644
04:19	ZZZZZZ	5632	108730	27176	12644
04:24	ZZZZZZ	5618	109770	27201	12592
04:29	ZZZZZZ	5661	108100	26777	12679
04:34	ZZZZZZ	5640	109360	26783	12646
04:39	ZZZZZZ	5648	108850	27074	12703
04:44	ZZZZZZ	5540	107560	27118	12293
04:50	MA56395-CCV16	5827	112240	27701	13202
04:55	MA56395-CCB16	5928	116810	26981	14334

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

(a) No samples reported for the elements associated with this internal standard.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56395 Units: ug/l

Time:			13:41		13:51		14:55		15:57	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	27	5.70	<200	7.10	<200	-0.900	<200	-4.50	<200
Antimony	6.0	2.2	-1.80	<6.0	-0.900	<6.0	-2.40	<6.0	-2.20	<6.0
Arsenic	3.0	1.3	0.600	<3.0	-0.200	<3.0	0.100	<3.0	0.100	<3.0
Barium	200	1	0.00	<200	0.100	<200	0.00	<200	0.00	<200
Beryllium	1.0	.2	0.00	<1.0	0.00	<1.0	0.00	<1.0	0.00	<1.0
Bismuth	20	2.1	anr							
Boron	100	1	anr							
Cadmium	3.0	.2	0.100	<3.0	0.200	<3.0	-0.100	<3.0	0.00	<3.0
Calcium	5000	7.7	-2.30	<5000	-1.20	<5000	-1.80	<5000	-3.30	<5000
Cerium	100									
Chromium	10	.5	0.200	<10	0.100	<10	0.00	<10	-0.100	<10
Cobalt	50	.4	0.00	<50	-0.100	<50	-0.200	<50	-0.300	<50
Copper	10	6.8	0.100	<10	0.200	<10	0.200	<10	0.600	<10
Iron	100	15	-0.800	<100	0.00	<100	16.9	<100	6.90	<100
Lead	3.0	1.6	0.00	<3.0	-0.300	<3.0	-0.500	<3.0	-0.300	<3.0
Lithium	50	3.7	anr							
Magnesium	5000	54	1.20	<5000	-3.60	<5000	7.40	<5000	-0.600	<5000
Manganese	15	.1	0.00	<15	0.00	<15	0.00	<15	0.00	<15
Molybdenum	20	.5	anr							
Nickel	10	.3	0.100	<10	-0.300	<10	-0.300	<10	0.00	<10
Phosphorus	50	1.8	anr							
Potassium	10000	77	6.90	<10000	12.6	<10000	21.5	<10000	48.7	<10000
Selenium	10	2	1.20	<10	0.500	<10	0.100	<10	0.700	<10
Silicon	200	1.3	anr							
Silver	10	.9	-0.500	<10	-0.700	<10	-0.400	<10	-0.600	<10
Sodium	10000	23	-4.00	<10000	-14.4	<10000	-17.3	<10000	-11.7	<10000
Strontium	10	.4	anr							
Sulfur	50	4.1	anr							
Thallium	10	1.6	0.400	<10	-0.400	<10	-0.400	<10	-0.100	<10
Tin	10	.9	anr							
Titanium	10	.9	anr							
Tungsten	50	2	anr							
Vanadium	50	.8	0.00	<50	-0.100	<50	-0.100	<50	0.100	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56395 Units: ug/l

Time:			13:41		13:51		14:55		15:57	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.2	-0.400	<20	-0.500	<20	-0.100	<20	-0.100	<20
Zirconium	10	.5	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56395 Units: ug/l

Time:			16:58		17:59		19:00		20:01	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	27	-0.400	<200	-3.40	<200	-5.70	<200	-12.8	<200
Antimony	6.0	2.2	-0.300	<6.0	-2.30	<6.0	-2.60	<6.0	-1.70	<6.0
Arsenic	3.0	1.3	0.100	<3.0	-0.400	<3.0	-0.300	<3.0	0.500	<3.0
Barium	200	1	0.100	<200	0.200	<200	0.00	<200	0.00	<200
Beryllium	1.0	.2	0.100	<1.0	0.00	<1.0	0.00	<1.0	0.00	<1.0
Bismuth	20	2.1	anr							
Boron	100	1	anr							
Cadmium	3.0	.2	0.100	<3.0	0.00	<3.0	-0.100	<3.0	0.100	<3.0
Calcium	5000	7.7	-3.20	<5000	-1.70	<5000	-3.50	<5000	-1.50	<5000
Cerium	100									
Chromium	10	.5	-0.100	<10	-0.200	<10	0.00	<10	0.00	<10
Cobalt	50	.4	-0.100	<50	0.00	<50	0.00	<50	0.00	<50
Copper	10	6.8	0.800	<10	0.600	<10	0.700	<10	0.100	<10
Iron	100	15	24.8	<100	15.6	<100	16.7	<100	22.1	<100
Lead	3.0	1.6	0.00	<3.0	0.200	<3.0	-0.400	<3.0	-0.700	<3.0
Lithium	50	3.7	anr							
Magnesium	5000	54	9.40	<5000	9.80	<5000	-6.90	<5000	8.30	<5000
Manganese	15	.1	0.00	<15	0.00	<15	-0.100	<15	-0.100	<15
Molybdenum	20	.5	anr							
Nickel	10	.3	-0.300	<10	-0.300	<10	0.00	<10	-0.300	<10
Phosphorus	50	1.8	anr							
Potassium	10000	77	74.0	<10000	57.6	<10000	32.5	<10000	12.2	<10000
Selenium	10	2	0.900	<10	0.500	<10	0.600	<10	0.600	<10
Silicon	200	1.3	anr							
Silver	10	.9	-0.100	<10	0.00	<10	-0.300	<10	-0.700	<10
Sodium	10000	23	-5.00	<10000	-13.2	<10000	-10.0	<10000	-19.5	<10000
Strontium	10	.4	anr							
Sulfur	50	4.1	anr							
Thallium	10	1.6	0.400	<10	-4.20	<10	-0.300	<10	-0.400	<10
Tin	10	.9	anr							
Titanium	10	.9	anr							
Tungsten	50	2	anr							
Vanadium	50	.8	0.00	<50	0.200	<50	0.200	<50	0.00	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56395 Units: ug/l

Time: / Sample ID:			16:58 CCB4		17:59 CCB5		19:00 CCB6		20:01 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.2	0.100	<20	0.100	<20	0.100	<20	0.00	<20
Zirconium	10	.5	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56395 Units: ug/l

Time:			21:01		22:02		23:02	
Sample ID:			CCB8		CCB9		CCB10	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	27	-8.50	<200	-14.2	<200	-17.0	<200
Antimony	6.0	2.2	-1.20	<6.0	-0.900	<6.0	-1.50	<6.0
Arsenic	3.0	1.3	0.100	<3.0	0.500	<3.0	-0.300	<3.0
Barium	200	1	-0.200	<200	-0.200	<200	-0.400	<200
Beryllium	1.0	.2	0.00	<1.0	0.00	<1.0	0.00	<1.0
Bismuth	20	2.1	anr					
Boron	100	1	anr					
Cadmium	3.0	.2	-0.100	<3.0	-0.100	<3.0	-0.100	<3.0
Calcium	5000	7.7	-0.900	<5000	0.100	<5000	1.30	<5000
Cerium	100							
Chromium	10	.5	0.00	<10	0.100	<10	0.00	<10
Cobalt	50	.4	-0.100	<50	-0.200	<50	-0.200	<50
Copper	10	6.8	0.100	<10	0.200	<10	0.300	<10
Iron	100	15	26.8	<100	14.3	<100	10.9	<100
Lead	3.0	1.6	-1.00	<3.0	-0.500	<3.0	-0.200	<3.0
Lithium	50	3.7	anr					
Magnesium	5000	54	-1.50	<5000	4.20	<5000	3.40	<5000
Manganese	15	.1	0.00	<15	-0.100	<15	-0.100	<15
Molybdenum	20	.5	anr					
Nickel	10	.3	-0.100	<10	-0.200	<10	-0.200	<10
Phosphorus	50	1.8	anr					
Potassium	10000	77	54.2	<10000	40.4	<10000	96.6	<10000
Selenium	10	2	1.00	<10	-0.200	<10	0.300	<10
Silicon	200	1.3	anr					
Silver	10	.9	-0.500	<10	-0.100	<10	-0.900	<10
Sodium	10000	23	-8.60	<10000	-3.20	<10000	11.1	<10000
Strontium	10	.4	anr					
Sulfur	50	4.1	anr					
Thallium	10	1.6	-2.60	<10	-0.600	<10	0.00	<10
Tin	10	.9	anr					
Titanium	10	.9	anr					
Tungsten	50	2	anr					
Vanadium	50	.8	0.200	<50	0.00	<50	0.00	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56395 Units: ug/l

Time:			21:01		22:02		23:02	
Sample ID:			CCB8		CCB9		CCB10	
Metal	RL	IDL	raw	final	raw	final	raw	final
Zinc	20	.2	0.100	<20	-0.100	<20	-0.100	<20
Zirconium	10	.5	anr					

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56395 Units: ug/l

Time:		13:35			13:46			14:50	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	41000	102.5	40000	39400	98.5	40000	38900	97.3
Antimony	2000	2040	102.0	2000	2020	101.0	2000	2020	101.0
Arsenic	2000	2010	100.5	2000	2030	101.5	2000	2030	101.5
Barium	2000	2070	103.5	2000	2130	106.5	2000	2110	105.5
Beryllium	2000	2140	107.0*(a	2000	2110	105.5	2000	2120	106.0
Bismuth	anr								
Boron	anr								
Cadmium	2000	2020	101.0	2000	2040	102.0	2000	2040	102.0
Calcium	40000	40900	102.3	40000	40000	100.0	40000	39700	99.3
Cerium									
Chromium	2000	2050	102.5	2000	2130	106.5	2000	2140	107.0
Cobalt	2000	2020	101.0	2000	2040	102.0	2000	2060	103.0
Copper	2000	2050	102.5	2000	2060	103.0	2000	2050	102.5
Iron	40000	41100	102.8	40000	42000	105.0	40000	41700	104.3
Lead	2000	2110	105.5*(a	2000	2070	103.5	2000	2080	104.0
Lithium	anr								
Magnesium	40000	39700	99.3	40000	40600	101.5	40000	40500	101.3
Manganese	2000	2090	104.5	2000	2090	104.5	2000	2090	104.5
Molybdenum	anr								
Nickel	2000	2080	104.0	2000	2050	102.5	2000	2060	103.0
Phosphorus	anr								
Potassium	40000	39900	99.8	40000	39500	98.8	40000	39000	97.5
Selenium	2000	2010	100.5	2000	2020	101.0	2000	2020	101.0
Silicon	anr								
Silver	250	256	102.4	250	259	103.6	250	259	103.6
Sodium	40000	40600	101.5	40000	41400	103.5	40000	41000	102.5
Strontium	anr								
Sulfur	anr								
Thallium	2000	1860	93.0*(a)	2000	2140	107.0	2000	1870	93.5
Tin	anr								
Titanium	anr								
Tungsten	anr								
Vanadium	2000	2030	101.5	2000	2120	106.0	2000	2120	106.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56395 Units: ug/l

Time:		13:35			13:46			14:50	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2080	104.0	2000	2070	103.5	2000	2090	104.5
Zirconium	anr								

(*) Outside of QC limits
(anr) Analyte not requested
(a) Within 90 to 110 percent limits required for SW846 6010. No EPA 200.7 samples reported for this element in the area bracketed by this QC.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56395 Units: ug/l

Time:		15:51			16:53			17:54	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39100	97.8	40000	40000	100.0	40000	39700	99.3
Antimony	2000	2020	101.0	2000	2050	102.5	2000	2030	101.5
Arsenic	2000	2020	101.0	2000	2060	103.0	2000	2030	101.5
Barium	2000	2130	106.5	2000	2050	102.5	2000	2080	104.0
Beryllium	2000	2130	106.5	2000	2060	103.0	2000	2120	106.0
Bismuth	anr								
Boron	anr								
Cadmium	2000	2040	102.0	2000	2070	103.5	2000	2040	102.0
Calcium	40000	39900	99.8	40000	41000	102.5	40000	40600	101.5
Cerium									
Chromium	2000	2150	107.5	2000	2090	104.5	2000	2090	104.5
Cobalt	2000	2040	102.0	2000	2080	104.0	2000	2040	102.0
Copper	2000	2070	103.5	2000	2050	102.5	2000	2040	102.0
Iron	40000	41900	104.8	40000	41200	103.0	40000	41500	103.8
Lead	2000	2070	103.5	2000	2090	104.5	2000	2070	103.5
Lithium	anr								
Magnesium	40000	40800	102.0	40000	40300	100.8	40000	40500	101.3
Manganese	2000	2090	104.5	2000	2090	104.5	2000	2080	104.0
Molybdenum	anr								
Nickel	2000	2050	102.5	2000	2080	104.0	2000	2050	102.5
Phosphorus	anr								
Potassium	40000	39100	97.8	40000	39800	99.5	40000	39600	99.0
Selenium	2000	2020	101.0	2000	2060	103.0	2000	2020	101.0
Silicon	anr								
Silver	250	261	104.4	250	257	102.8	250	256	102.4
Sodium	40000	41200	103.0	40000	40600	101.5	40000	40800	102.0
Strontium	anr								
Sulfur	anr								
Thallium	2000	1870	93.5	2000	2170	108.5	2000	2140	107.0
Tin	anr								
Titanium	anr								
Tungsten	anr								
Vanadium	2000	2130	106.5	2000	2080	104.0	2000	2090	104.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56395 Units: ug/l

Time:		15:51			16:53			17:54	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2080	104.0	2000	2100	105.0	2000	2070	103.5
Zirconium	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56395 Units: ug/l

Time:		18:55			19:55			20:56	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	39000	97.5	40000	38800	97.0	40000	39000	97.5
Antimony	2000	2020	101.0	2000	2020	101.0	2000	2040	102.0
Arsenic	2000	2020	101.0	2000	2020	101.0	2000	2040	102.0
Barium	2000	2110	105.5	2000	2100	105.0	2000	2050	102.5
Beryllium	2000	2130	106.5	2000	2110	105.5	2000	2070	103.5
Bismuth	anr								
Boron	anr								
Cadmium	2000	2030	101.5	2000	2040	102.0	2000	2050	102.5
Calcium	40000	39800	99.5	40000	39600	99.0	40000	39800	99.5
Cerium									
Chromium	2000	2130	106.5	2000	2120	106.0	2000	2060	103.0
Cobalt	2000	2030	101.5	2000	2040	102.0	2000	2050	102.5
Copper	2000	2050	102.5	2000	2050	102.5	2000	2010	100.5
Iron	40000	41400	103.5	40000	41300	103.3	40000	40500	101.3
Lead	2000	2080	104.0	2000	2080	104.0	2000	2080	104.0
Lithium	anr								
Magnesium	40000	40400	101.0	40000	40300	100.8	40000	39600	99.0
Manganese	2000	2100	105.0	2000	2070	103.5	2000	2040	102.0
Molybdenum	anr								
Nickel	2000	2050	102.5	2000	2060	103.0	2000	2070	103.5
Phosphorus	anr								
Potassium	40000	39000	97.5	40000	38900	97.3	40000	38900	97.3
Selenium	2000	2000	100.0	2000	2000	100.0	2000	2020	101.0
Silicon	anr								
Silver	250	258	103.2	250	259	103.6	250	252	100.8
Sodium	40000	40800	102.0	40000	40700	101.8	40000	39900	99.8
Strontium	anr								
Sulfur	anr								
Thallium	2000	1870	93.5	2000	1880	94.0	2000	1890	94.5
Tin	anr								
Titanium	anr								
Tungsten	anr								
Vanadium	2000	2120	106.0	2000	2120	106.0	2000	2050	102.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56395 Units: ug/l

Time:		18:55			19:55			20:56	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2060	103.0	2000	2070	103.5	2000	2070	103.5
Zirconium	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56395 Units: ug/l

Time:		21:57			22:57	
Sample ID:	CCV	CCV9		CCV	CCV10	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40100	100.3	40000	39600	99.0
Antimony	2000	2030	101.5	2000	2030	101.5
Arsenic	2000	2020	101.0	2000	2030	101.5
Barium	2000	2050	102.5	2000	2060	103.0
Beryllium	2000	2110	105.5	2000	2080	104.0
Bismuth	anr					
Boron	anr					
Cadmium	2000	2040	102.0	2000	2040	102.0
Calcium	40000	41100	102.8	40000	40600	101.5
Cerium						
Chromium	2000	2060	103.0	2000	2070	103.5
Cobalt	2000	2030	101.5	2000	2030	101.5
Copper	2000	2030	101.5	2000	2030	101.5
Iron	40000	41000	102.5	40000	40900	102.3
Lead	2000	2080	104.0	2000	2080	104.0
Lithium	anr					
Magnesium	40000	40400	101.0	40000	40200	100.5
Manganese	2000	2080	104.0	2000	2060	103.0
Molybdenum	anr					
Nickel	2000	2070	103.5	2000	2060	103.0
Phosphorus	anr					
Potassium	40000	40000	100.0	40000	39700	99.3
Selenium	2000	2010	100.5	2000	2000	100.0
Silicon	anr					
Silver	250	254	101.6	250	254	101.6
Sodium	40000	40300	100.8	40000	40300	100.8
Strontium	anr					
Sulfur	anr					
Thallium	2000	1870	93.5	2000	1880	94.0
Tin	anr					
Titanium	anr					
Tungsten	anr					
Vanadium	2000	2060	103.0	2000	2060	103.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56395 Units: ug/l

Time:		21:57			22:57	
Sample ID:	CCV	CCV9		CCV	CCV10	
Metal	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2070	103.5	2000	2070	103.5
Zirconium	anr					

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56395 Units: ug/l

Time:		14:16			14:22			14:34	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2		HSTD	HSTD3	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum				300000	296000	98.7			
Antimony	8000	8400	105.0				8000	8280	103.5
Arsenic	8000	8350	104.4				8000	8210	102.6
Barium	8000	8070	100.9				8000	7930	99.1
Beryllium	8000	8120	101.5				8000	8130	101.6
Bismuth	anr								
Boron	anr								
Cadmium	8000	8080	101.0				8000	8070	100.9
Calcium				200000	193000	96.5			
Cerium									
Chromium	8000	8430	105.4				8000	8420	105.3
Cobalt	8000	8160	102.0				8000	8110	101.4
Copper	8000	7970	99.6				8000	8100	101.3
Iron				200000	193000	96.5			
Lead	8000	8350	104.4				8000	8330	104.1
Lithium	anr								
Magnesium				300000	304000	101.3			
Manganese	8000	8180	102.3				8000	8250	103.1
Molybdenum	anr								
Nickel	8000	8120	101.5				8000	8110	101.4
Phosphorus	anr								
Potassium				200000	203000	101.5			
Selenium	8000	8250	103.1				8000	8290	103.6
Silicon	anr								
Silver	625	674	107.8				625	646	103.4
Sodium				200000	207000	103.5			
Strontium	anr								
Sulfur	anr								
Thallium	8000	7580	94.8				8000	7520	94.0
Tin									
Titanium	anr								
Tungsten	anr								
Vanadium	8000	8460	105.8				8000	8330	104.1

HIGH STANDARD CHECK SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56395 Units: ug/l

Time:		14:16			14:22			14:34	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2		HSTD	HSTD3	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	8000	8470	105.9				8000	8450	105.6
Zirconium	anr								

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56395 Units: ug/l

Time:				14:01		15:00	
Sample ID:	CRI	CRIA	CRID	CRID1		CRI2	
Metal	True	True	True	Results	% Rec	Results	% Rec
Aluminum	200	500	100	92.6	92.6	179	89.5
Antimony	6.0	20	3.0			5.40	90.0
Arsenic	8.0	20	3.0	3.00	100.0	8.90	111.3
Barium	200		4.0	4.40	110.0	213	106.5
Beryllium	2.0		1.0	1.00	100.0	2.10	105.0
Bismuth	20						
Boron	100		10				
Cadmium	3.0		1.0	0.900	90.0	2.90	96.7
Calcium	5000	2000	1000	933	93.3	4920	98.4
Cerium							
Chromium	10		2.0	2.10	105.0	10.7	107.0
Cobalt	50		3.0	3.00	100.0	50.7	101.4
Copper	10		2.0			9.70	97.0
Iron	100	500				116	116.0
Lead	3.0	20	2.5			3.20	106.7
Lithium	50						
Magnesium	5000	2000	100	94.0	94.0	5130	102.6
Manganese	15		3.0	3.00	100.0	15.3	102.0
Molybdenum	20						
Nickel	10		4.0	3.90	97.5	10.1	101.0
Phosphorus	50						
Potassium	5000		2000	1790	89.5	4610	92.2
Selenium	10	20	5.0	5.40	108.0	8.80	88.0
Silicon	200						
Silver	5.0		2.0			4.80	96.0
Sodium	5000		1000	991	99.1	5070	101.4
Strontium	10						
Sulfur	50						
Thallium	10		2.0	2.20	110.0	11.5	115.0
Tin	10						
Titanium	10						
Tungsten	50						
Vanadium	50		2.0	2.10	105.0	52.6	105.2

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56395 Units: ug/l

Time:				14:01		15:00	
Sample ID:	CRI	CRIA	CRID	CRID1		CRI2	
Metal	True	True	True	Results	% Rec	Results	% Rec
Zinc	20		10	11.3	113.0	20.8	104.0
Zirconium	10						

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56395 Units: ug/l

Time:			14:06		14:11	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	500000	100.0	501000	100.2
Antimony		1000	-0.700		964	96.4
Arsenic		1000	-0.300		967	96.7
Barium		500	-1.20		532	106.4
Beryllium		500	0.100		535	107.0
Bismuth		500	-9.60		460	92.0
Boron		500	-6.30		471	94.2
Cadmium		1000	1.70		1040	104.0
Calcium	400000	400000	365000	91.3	368000	92.0
Cerium			18.6		11.9	
Chromium		500	-0.500		499	99.8
Cobalt		500	7.90		497	99.4
Copper		500	-2.80		542	108.4
Iron	200000	200000	195000	97.5	191000	95.5
Lead		1000	-0.400		956	95.6
Lithium		500	-8.70		540	108.0
Magnesium	500000	500000	514000	102.8	517000	103.4
Manganese		500	-3.50		528	105.6
Molybdenum		500	-4.10		461	92.2
Nickel		1000	6.00		959	95.9
Phosphorus		500	-17.1		448	89.6
Potassium			-37.9		-40.6	
Selenium		1000	-6.50		928	92.8
Silicon		500	-3.10		549	109.8
Silver		1000	4.30		1170	117.0
Sodium			-28.1		-47.7	
Strontium		500	-6.30		509	101.8
Sulfur		500	-33.1		432	86.4
Thallium		1000	0.200		836	83.6
Tin		500	3.30		474	94.8
Titanium		500	0.400		482	96.4
Tungsten		500	-3.10		496	99.2
Vanadium		500	0.500		524	104.8

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070124M1.ICP Date Analyzed: 07/01/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56395 Units: ug/l

Time:			14:06		14:11	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Zinc		1000	-8.90		952	95.2
Zirconium		500	0.800		479	95.8

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56403
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:11	MA56403-STD1	1		STDA
12:16	MA56403-STD2	1		STDB
12:21	MA56403-ICV1	1		
12:27	MA56403-ICB1	1		
12:32	MA56403-CCV1	1		
12:43	MA56403-CCB1	1		
12:48	MA56403-CRI1	1		
12:53	MA56403-CRID1	1		
12:58	MA56403-ICSA1	1		
13:03	MA56403-ICSAB1	1		
13:08	MA56403-HSTD1	1		
13:14	MA56403-HSTD2	1		
13:19	ZZZZZZ	1		
13:24	ZZZZZZ	1		
13:29	ZZZZZZ	1		
13:35	ZZZZZZ	1		
13:40	MA56403-CCV2	1		
13:45	MA56403-CCB2	1		
13:50	MP47613-B2	1		
13:55	MP47608-B1	1		
14:00	ZZZZZZ	1		
14:05	ZZZZZZ	5		
14:09	ZZZZZZ	1		
14:14	ZZZZZZ	1		
14:14	MP47605-MB1	1		
14:19	ZZZZZZ	1		
14:25	ZZZZZZ	1		
14:30	ZZZZZZ	1		
14:35	ZZZZZZ	5		
14:40	MA56403-CCV3	1		
14:45	MA56403-CCB3	1		
14:50	ZZZZZZ	1		
14:55	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56403
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	15:00	JD91339-13	1		
	15:05	JD91339-14	1		
---------->	Last reportable sample/prep for job JD91339				
	15:10	ZZZZZZ	5		
	15:15	MP47590-MB1	1		
	15:20	MP47590-S1	1		
	15:25	MP47590-S1	5		
	15:30	MP47590-S2	1		
	15:35	MP47590-S2	5		
	15:40	MA56403-CCV4	1		
	15:45	MA56403-CCB4	1		
---------->	Last reportable CCB for job JD91339				
	15:50	JD91255-4	5		(sample used for QC only; not part of login JD91339)
	15:55	MP47590-SD1	25		
	16:00	ZZZZZZ	5		
	16:05	ZZZZZZ	1		
	16:10	ZZZZZZ	1		
	16:15	MA56403-CCV5	1		
	16:20	MA56403-CCB5	1		
	16:25	ZZZZZZ	1		
	16:30	ZZZZZZ	1		
	16:35	ZZZZZZ	1		
	16:40	ZZZZZZ	1		
	16:45	ZZZZZZ	1		
	16:50	ZZZZZZ	1		
	16:55	MA56403-CCV6	1		
	17:00	MA56403-CCB6	1		
	17:05	MP47590-S1	50		
	17:10	MP47590-S2	50		
	17:15	JD91255-4	50		(sample used for QC only; not part of login JD91339)
	17:20	MP47590-SD1	250		doesnt match, rerun at the same dilution
	17:25	ZZZZZZ	100		
	17:30	MP47639-B1	1		
	17:35	MP47639-MB1	1		Rerun for PB
	17:40	MP47639-S1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56403
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:45	MP47639-S2	1		
17:50	JD91441-1	1		(sample used for QC only; not part of login JD91339)
17:55	MA56403-CCV7	1		
18:00	MA56403-CCB7	1		
18:05	MP47639-SD1	5		
18:10	MP47639-PS1	1		
18:15	ZZZZZZ	1		
18:20	ZZZZZZ	1		
18:25	ZZZZZZ	1		
18:30	ZZZZZZ	1		
18:35	ZZZZZZ	1		
18:40	ZZZZZZ	1		
18:45	ZZZZZZ	1		
18:50	ZZZZZZ	1		
18:55	MA56403-CCV8	1		
19:00	MA56403-CCB8	1		
19:05	ZZZZZZ	1		
19:09	ZZZZZZ	1		
19:14	ZZZZZZ	1		
19:19	MP47636-B1	1		
19:24	MP47636-MB1	1		
19:29	MP47636-S1	1		Ca, Na high
19:35	MP47636-S2	1		Ca, Na high
19:40	JD91443-1	1		(sample used for QC only; not part of login JD91339)
19:45	MP47636-SD1	5		Ca, Na high
19:50	ZZZZZZ	1		
19:55	MA56403-CCV9	1		
20:00	MA56403-CCB9	1		
20:05	ZZZZZZ	1		
20:10	ZZZZZZ	1		
20:15	ZZZZZZ	1		
20:20	ZZZZZZ	1		
20:25	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56403
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:30	MP47617-MB1	1		
20:35	MP47617-B1	1		
20:40	MP47617-S1	1		MN high
20:46	MP47617-S2	1		MN high
20:51	JD91429-3	1		(sample used for QC only; not part of login JD91339)
20:56	MA56403-CCV10	1		
21:01	MA56403-CCB10	1		
21:06	MP47617-SD1	5		MN high
21:11	ZZZZZZ	1		
21:16	ZZZZZZ	1		
21:21	ZZZZZZ	1		
21:26	ZZZZZZ	1		
21:31	ZZZZZZ	1		
21:36	ZZZZZZ	1		
21:42	ZZZZZZ	1		
21:47	ZZZZZZ	1		
21:52	ZZZZZZ	1		
21:57	MA56403-CCV11	1		
22:02	MA56403-CCB11	1		
22:07	ZZZZZZ	1		
22:12	ZZZZZZ	1		
22:17	ZZZZZZ	1		
22:22	ZZZZZZ	1		
22:27	ZZZZZZ	1		
22:32	ZZZZZZ	1		
22:37	MP47632-MB1	1		
22:42	MP47632-LB1	1		
22:47	MP47632-B1	1		
22:52	MA56403-CCV12	1		
22:58	MA56403-CCB12	1		
23:03	MP47632-LS1	5		
23:07	MP47632-S1	5		
23:12	MP47632-S2	5		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56403
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
23:17	JD91230-1A	5		(sample used for QC only; not part of login JD91339)
23:22	MP47632-SD1	25		
23:27	ZZZZZZ	5		
23:32	ZZZZZZ	5		
23:37	ZZZZZZ	5		
23:42	MA56403-CCV13	1		
23:47	MA56403-CCB13	1		
23:52	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56403
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn
12:21	MA56403-ICV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12:27	MA56403-ICB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12:32	MA56403-CCV1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12:43	MA56403-CCB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12:48	MA56403-CRI1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12:53	MA56403-CRID1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12:58	MA56403-ICSA1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13:03	MA56403-ICSAB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13:08	MA56403-HSTD1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13:14	MA56403-HSTD2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13:19	ZZZZZZ	1																						
13:24	ZZZZZZ	1																						
13:29	ZZZZZZ	1																						
13:35	ZZZZZZ	1																						
13:40	MA56403-CCV2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13:45	MA56403-CCB2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13:50	MP47613-B2	1			X	X		X		X				X					X	X				
13:55	MP47608-B1	1														X							X	
14:00	ZZZZZZ	1																						
14:05	ZZZZZZ	5																						
14:09	ZZZZZZ	1																						
14:14	ZZZZZZ	1																						
14:14	MP47605-MB1	1																						X
14:19	ZZZZZZ	1																						
14:25	ZZZZZZ	1																						
14:30	ZZZZZZ	1																						
14:35	ZZZZZZ	5																						
14:40	MA56403-CCV3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14:45	MA56403-CCB3	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14:50	ZZZZZZ	1																						
14:55	ZZZZZZ	1																						
15:00	JD91339-13	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15:05	JD91339-14	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn

REPORTED ELEMENTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56403
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
15:10	ZZZZZZ	5																							
15:15	MP47590-MB1	1												X											
15:20	MP47590-S1	1	X	X		X	X	X	X	X	X	X			X	X	X	X	X			X	X		
15:25	MP47590-S1	5												X	X										
15:30	MP47590-S2	1	X	X		X	X	X	X	X	X	X			X	X	X	X	X			X	X		
15:35	MP47590-S2	5												X	X										
15:40	MA56403-CCV4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
15:45	MA56403-CCB4	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
15:50	JD91255-4	5													X										(a)
15:55	MP47590-SD1	25												X	X										
16:00	ZZZZZZ	5																							
16:05	ZZZZZZ	1																							
16:10	ZZZZZZ	1																							
16:15	MA56403-CCV5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:20	MA56403-CCB5	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16:25	ZZZZZZ	1																							
16:30	ZZZZZZ	1																							
16:35	ZZZZZZ	1																							
16:40	ZZZZZZ	1																							
16:45	ZZZZZZ	1																							
16:50	ZZZZZZ	1																							
16:55	MA56403-CCV6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:00	MA56403-CCB6	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:05	MP47590-S1	50																			X				
17:10	MP47590-S2	50																			X				
17:15	JD91255-4	50																			X				(a)
17:20	MP47590-SD1	250																							
17:25	ZZZZZZ	100																							
17:30	MP47639-B1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:35	MP47639-MB1	1	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	
17:40	MP47639-S1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:45	MP47639-S2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17:50	JD91441-1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	(a)
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56403
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution	Element: Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
17:55	MA56403-CCV7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:00	MA56403-CCB7	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:05	MP47639-SD1	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18:10	MP47639-PS1	1		X																					
18:15	ZZZZZZ	1																							
18:20	ZZZZZZ	1																							
18:25	ZZZZZZ	1																							
18:30	ZZZZZZ	1																							
18:35	ZZZZZZ	1																							
18:40	ZZZZZZ	1																							
18:45	ZZZZZZ	1																							
18:50	ZZZZZZ	1																							
18:55	MA56403-CCV8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:00	MA56403-CCB8	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19:05	ZZZZZZ	1																							
19:09	ZZZZZZ	1																							
19:14	ZZZZZZ	1																							
19:19	MP47636-B1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	
19:24	MP47636-MB1	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	
19:29	MP47636-S1	1	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X	X	
19:35	MP47636-S2	1	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X	X	
19:40	JD91443-1	1	X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X			X	X	(a)
19:45	MP47636-SD1	5	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X			X	X	
19:50	ZZZZZZ	1																							
19:55	MA56403-CCV9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:00	MA56403-CCB9	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
20:05	ZZZZZZ	1																							
20:10	ZZZZZZ	1																							
20:15	ZZZZZZ	1																							
20:20	ZZZZZZ	1																							
20:25	ZZZZZZ	1																							
20:30	MP47617-MB1	1											X	X		X		X							
20:35	MP47617-B1	1											X	X		X		X							
			Element: Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56403
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	
20:40	MP47617-S1	1											X					X							
20:46	MP47617-S2	1											X					X							
20:51	JD91429-3	1											X					X							(a)
20:56	MA56403-CCV10	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:01	MA56403-CCB10	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21:06	MP47617-SD1	5											X					X							
21:11	ZZZZZZ	1																							
21:16	ZZZZZZ	1																							
21:21	ZZZZZZ	1																							
21:26	ZZZZZZ	1																							
21:31	ZZZZZZ	1																							
21:36	ZZZZZZ	1																							
21:42	ZZZZZZ	1																							
21:47	ZZZZZZ	1																							
21:52	ZZZZZZ	1																							
21:57	MA56403-CCV11	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22:02	MA56403-CCB11	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22:07	ZZZZZZ	1																							
22:12	ZZZZZZ	1																							
22:17	ZZZZZZ	1																							
22:22	ZZZZZZ	1																							
22:27	ZZZZZZ	1																							
22:32	ZZZZZZ	1																							
22:37	MP47632-MB1	1			X	X	X	X		X		X		X			X		X	X				X	
22:42	MP47632-LB1	1																							
22:47	MP47632-B1	1			X	X	X	X		X		X		X			X		X	X				X	
22:52	MA56403-CCV12	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22:58	MA56403-CCB12	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23:03	MP47632-LS1	5			X	X	X	X		X		X		X			X		X	X				X	
23:07	MP47632-S1	5			X	X	X	X		X		X		X			X		X	X				X	
23:12	MP47632-S2	5			X	X	X	X		X		X		X			X		X	X				X	
23:17	JD91230-1A	5			X	X	X	X		X		X		X			X		X	X				X	(a)
23:22	MP47632-SD1	25			X	X	X	X		X		X		X			X		X	X				X	
		Element:	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn	

REPORTED ELEMENTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56403
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Element: Dilution	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn
23:27	ZZZZZZ	5																						
23:32	ZZZZZZ	5																						
23:37	ZZZZZZ	5																						
23:42	MA56403-CCV13	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23:47	MA56403-CCB13	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23:52	ZZZZZZ	1																						

(a) Sample used for QC only; not part of login JD91339.

Element: Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Ni K Se Ag Na Tl V Zn

INTERNAL STANDARD SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56403
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:11	MA56403-STD1	6308 R	125510 R	28280 R	15140 R
12:16	MA56403-STD2	5905	108980	27202	13306
12:21	MA56403-ICV1	6037	110610	26522	13718
12:27	MA56403-ICB1	6211	117410	26825	15027
12:32	MA56403-CCV1	6107	114870	27562	13882
12:43	MA56403-CCB1	6197	124260	28113	14956
12:48	MA56403-CRI1	6190	126560	28775	14833
12:53	MA56403-CRID1	6195	120750	27763	14950
12:58	MA56403-ICSA1	5675	103360	26787	12352
13:03	MA56403-ICSAB1	5691	104180	26840	12375
13:08	MA56403-HSTD1	6193	118330	28947	14901
13:14	MA56403-HSTD2	5714	108590	27243	12423
13:19	ZZZZZZ	6111	118480	27473	15025
13:24	ZZZZZZ	6447	113020	28764	13578
13:29	ZZZZZZ	5673	112130	26901	12849
13:35	ZZZZZZ	6183	126030	28554	14883
13:40	MA56403-CCV2	6092	122920	29155	13817
13:45	MA56403-CCB2	6135	119220	27438	14813
13:50	MP47613-B2	6021	113070	27205	13924
13:55	MP47608-B1	6033	114210	27481	13941
14:00	ZZZZZZ	6145	118350	27101	14862
14:05	ZZZZZZ	6278	119730	27851	14664
14:09	ZZZZZZ	5990	114520	27279	13880
14:14	ZZZZZZ	6076	119520	27441	14768
14:14	MP47605-MB1	6076	119520	27441	14768
14:19	ZZZZZZ	6090	122560	29401	13730
14:25	ZZZZZZ	6134	122310	29488	13718
14:30	ZZZZZZ	6089	115380	27873	13954
14:35	ZZZZZZ	6120	115600	26696	14433
14:40	MA56403-CCV3	6032	114980	27328	13703
14:45	MA56403-CCB3	6206	120090	27555	15001
14:50	ZZZZZZ	5968	114840	28255	13596
14:55	ZZZZZZ	6181	120000	28120	14332

INTERNAL STANDARD SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56403
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:00	JD91339-13	6228	123740	29147	14456
15:05	JD91339-14	6643	132900	31413	14451
15:10	ZZZZZZ	6245	121270	28243	14657
15:15	MP47590-MB1	6187	118820	27322	14982
15:20	MP47590-S1	5178	95580	26330	10796
15:25	MP47590-S1	5731	109170	27183	12502
15:30	MP47590-S2	5242	99289	27015	10902
15:35	MP47590-S2	5812	110290	27501	12653
15:40	MA56403-CCV4	6062	119780	28560	13721
15:45	MA56403-CCB4	6275	129180	29093	15090
15:50	JD91255-4	5694	111870	27895	12442
15:55	MP47590-SD1	5990	112930	27025	13774
16:00	ZZZZZZ	5504	102460	26442	11820
16:05	ZZZZZZ	6067	117940	26850	14742
16:10	ZZZZZZ	6067	117140	26644	14772
16:15	MA56403-CCV5	6071	117150	27978	13764
16:20	MA56403-CCB5	6180	122480	27719	14877
16:25	ZZZZZZ	6179	125300	28235	14867
16:30	ZZZZZZ	6183	126030	28363	14903
16:35	ZZZZZZ	6034	118760	27361	14779
16:40	ZZZZZZ	6101	116560	26687	14724
16:45	ZZZZZZ	6126	118120	26730	14907
16:50	ZZZZZZ	6106	118820	27095	14851
16:55	MA56403-CCV6	6069	116610	27839	13776
17:00	MA56403-CCB6	6210	121150	27763	14991
17:05	MP47590-S1	6083	118090	27540	14239
17:10	MP47590-S2	6098	118800	27767	14267
17:15	JD91255-4	6096	118780	27705	14235
17:20	MP47590-SD1	6140	119970	27853	14589
17:25	ZZZZZZ	6089	118560	27648	14276
17:30	MP47639-B1	6145	120730	28690	14104
17:35	MP47639-MB1	6238	126570	28654	15014
17:40	MP47639-S1	6237	124460	29773	14168

INTERNAL STANDARD SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56403
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
17:45	MP47639-S2	6171	116230	28461	14034
17:50	JD91441-1	6310	117270	27522	14607
17:55	MA56403-CCV7	6070	114400	27401	13785
18:00	MA56403-CCB7	6236	121090	27694	15082
18:05	MP47639-SD1	6334	121300	27904	14966
18:10	MP47639-PS1	6196	119600	28844	14204
18:15	ZZZZZZ	6346	124240	28872	14554
18:20	ZZZZZZ	6364	127480	29489	14648
18:25	ZZZZZZ	6386	125840	29092	14674
18:30	ZZZZZZ	6249	118370	27828	14504
18:35	ZZZZZZ	6301	119340	27809	14613
18:40	ZZZZZZ	6353	119840	28220	14755
18:45	ZZZZZZ	6373	121260	28340	14721
18:50	ZZZZZZ	6409	122370	28461	14795
18:55	MA56403-CCV8	6150	119160	28388	13903
19:00	MA56403-CCB8	6239	125360	28329	14988
19:05	ZZZZZZ	6387	126770	29294	14568
19:09	ZZZZZZ	6434	128810	29625	14804
19:14	ZZZZZZ	6375	122410	28690	14708
19:19	MP47636-B1	6035	114070	26929	13945
19:24	MP47636-MB1	6039	116660	26800	14735
19:29	MP47636-S1	5517	106570	26826	12024
19:35	MP47636-S2	5574	109140	27430	12168
19:40	JD91443-1	5540	111900	27560	12240
19:45	MP47636-SD1	5997	122960	28662	13880
19:50	ZZZZZZ	5465	107690	26979	12110
19:55	MA56403-CCV9	6068	114850	27780	13800
20:00	MA56403-CCB9	6221	120930	27648	15038
20:05	ZZZZZZ	6053	117020	26879	14792
20:10	ZZZZZZ	5383	103330	26906	11521
20:15	ZZZZZZ	5413	105610	27426	11578
20:20	ZZZZZZ	5419	108430	28268	11581
20:25	ZZZZZZ	5529	110850	28939	11869

INTERNAL STANDARD SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56403
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
20:30	MP47617-MB1	6244	123660	28482	15117
20:35	MP47617-B1	6110	117260	27870	14129
20:40	MP47617-S1	5805	112510	28042	12923
20:46	MP47617-S2	5818	111830	27632	12942
20:51	JD91429-3	5871	112970	27721	13128
20:56	MA56403-CCV10	6118	119910	28401	13852
21:01	MA56403-CCB10	6259	125560	28391	15073
21:06	MP47617-SD1	6123	123720	28718	14287
21:11	ZZZZZZ	5936	118830	28706	13279
21:16	ZZZZZZ	5951	115270	27821	13333
21:21	ZZZZZZ	5963	113590	27312	13385
21:26	ZZZZZZ	6002	113470	27288	13426
21:31	ZZZZZZ	5987	114580	27633	13386
21:36	ZZZZZZ	6004	115930	28120	13373
21:42	ZZZZZZ	6007	117170	28330	13410
21:47	ZZZZZZ	5977	118080	28766	13357
21:52	ZZZZZZ	5974	119890	28948	13326
21:57	MA56403-CCV11	6148	122560	29085	13947
22:02	MA56403-CCB11	6242	123120	27982	15116
22:07	ZZZZZZ	6005	114550	27788	13408
22:12	ZZZZZZ	5983	113530	27292	13368
22:17	ZZZZZZ	6018	114360	27555	13429
22:22	ZZZZZZ	6039	116130	27973	13633
22:27	ZZZZZZ	5944	116900	28144	13277
22:32	ZZZZZZ	6080	119370	28474	13686
22:37	MP47632-MB1	6272	126010	28517	15096
22:42	MP47632-LB1	5561	106750	27396	11853
22:47	MP47632-B1	6214	124160	29202	14312
22:52	MA56403-CCV12	6179	122060	28767	13998
22:58	MA56403-CCB12	6263	122530	27894	15154
23:03	MP47632-LS1	6014	115170	27753	13371
23:07	MP47632-S1	5984	113250	27363	13307
23:12	MP47632-S2	6019	114130	27671	13373

INTERNAL STANDARD SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
Analyst: KP Run ID: MA56403
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
23:17	JD91230-1A	5963	113690	27333	13250
23:22	MP47632-SD1	6167	120370	28014	14449
23:27	ZZZZZZ	5923	116280	28182	13083
23:32	ZZZZZZ	5981	118720	28699	13309
23:37	ZZZZZZ	5998	119550	28736	13335
23:42	MA56403-CCV13	6192	123660	29058	14014
23:47	MA56403-CCB13	6303	126690	28756	15185
23:52	ZZZZZZ	6128	123050	28086	14798

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56403 Units: ug/l

Time:			12:27		12:43		13:45		14:45	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	27	-6.90	<200	-9.90	<200	-7.50	<200	-4.00	<200
Antimony	6.0	2.2	0.100	<6.0	-2.10	<6.0	-0.100	<6.0	-2.10	<6.0
Arsenic	3.0	1.3	-0.300	<3.0	0.00	<3.0	-0.300	<3.0	-0.700	<3.0
Barium	200	1	0.200	<200	-0.100	<200	0.100	<200	0.100	<200
Beryllium	1.0	.2	0.00	<1.0	-0.100	<1.0	0.00	<1.0	0.00	<1.0
Bismuth	20	2.1								
Boron	100	1								
Cadmium	3.0	.2	0.00	<3.0	0.00	<3.0	0.00	<3.0	0.00	<3.0
Calcium	5000	7.7	-8.30	<5000	-6.00	<5000	-5.60	<5000	-5.80	<5000
Cerium	100									
Chromium	10	.5	-0.200	<10	0.200	<10	0.00	<10	0.00	<10
Cobalt	50	.4	0.00	<50	0.00	<50	0.00	<50	-0.200	<50
Copper	10	6.8	0.100	<10	0.200	<10	0.400	<10	0.300	<10
Iron	100	15	-5.00	<100	-7.30	<100	11.7	<100	11.0	<100
Lead	3.0	1.6	0.300	<3.0	-0.400	<3.0	-0.100	<3.0	0.200	<3.0
Lithium	50	3.7								
Magnesium	5000	54	-5.20	<5000	-1.00	<5000	1.60	<5000	5.50	<5000
Manganese	15	.1	-0.200	<15	-0.100	<15	-0.100	<15	-0.100	<15
Molybdenum	20	.5								
Nickel	10	.3	0.00	<10	0.00	<10	0.00	<10	0.00	<10
Phosphorus	50	1.8								
Potassium	10000	77	-18.3	<10000	33.8	<10000	-53.0	<10000	-25.2	<10000
Selenium	10	2	0.200	<10	-1.60	<10	1.50	<10	0.800	<10
Silicon	200	1.3								
Silver	10	.9	-0.200	<10	0.100	<10	-0.200	<10	-0.200	<10
Sodium	10000	23	-18.3	<10000	-15.9	<10000	-23.2	<10000	-38.1	<10000
Strontium	10	.4								
Sulfur	50	4.1								
Thallium	10	1.6	0.500	<10	0.200	<10	0.300	<10	0.400	<10
Tin	10	.9								
Titanium	10	.9								
Tungsten	50	2								
Vanadium	50	.8	0.100	<50	0.00	<50	0.00	<50	0.00	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56403 Units: ug/l

Time:			12:27		12:43		13:45		14:45	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Zinc	20	.2	3.80	<20	-0.700	<20	-0.800	<20	-0.900	<20
Zirconium	10	.5								

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56403 Units: ug/l

Time:			15:45	
Sample ID:			CCB4	
Metal	RL	IDL	raw	final
Aluminum	200	27	-15.5	<200
Antimony	6.0	2.2	-0.800	<6.0
Arsenic	3.0	1.3	-0.100	<3.0
Barium	200	1	-0.100	<200
Beryllium	1.0	.2	0.00	<1.0
Bismuth	20	2.1		
Boron	100	1		
Cadmium	3.0	.2	0.100	<3.0
Calcium	5000	7.7	-2.30	<5000
Cerium	100			
Chromium	10	.5	0.100	<10
Cobalt	50	.4	0.00	<50
Copper	10	6.8	0.300	<10
Iron	100	15	8.10	<100
Lead	3.0	1.6	-0.200	<3.0
Lithium	50	3.7		
Magnesium	5000	54	-5.70	<5000
Manganese	15	.1	-0.100	<15
Molybdenum	20	.5		
Nickel	10	.3	0.100	<10
Phosphorus	50	1.8		
Potassium	10000	77	98.3	<10000
Selenium	10	2	-0.200	<10
Silicon	200	1.3		
Silver	10	.9	0.100	<10
Sodium	10000	23	93.7	<10000
Strontium	10	.4		
Sulfur	50	4.1		
Thallium	10	1.6	0.500	<10
Tin	10	.9		
Titanium	10	.9		
Tungsten	50	2		
Vanadium	50	.8	0.500	<50

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
QC Limits: result < RL Run ID: MA56403 Units: ug/l

Time:			15:45	
Sample ID:			CCB4	
Metal	RL	IDL	raw	final
Zinc	20	.2	-0.900	<20
Zirconium	10	.5		

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56403 Units: ug/l

Time:		12:21			12:32			13:40	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40700	101.8	40000	39800	99.5	40000	42500	106.3
Antimony	2000	2030	101.5	2000	2060	103.0	2000	2130	106.5
Arsenic	2000	2000	100.0	2000	2060	103.0	2000	2110	105.5
Barium	2000	2080	104.0	2000	2040	102.0	2000	2020	101.0
Beryllium	2000	2110	105.5*(a	2000	2040	102.0	2000	2060	103.0
Bismuth									
Boron									
Cadmium	2000	2010	100.5	2000	2040	102.0	2000	2100	105.0
Calcium	40000	40600	101.5	40000	40400	101.0	40000	43500	108.8
Cerium									
Chromium	2000	2060	103.0	2000	2000	100.0	2000	1960	98.0
Cobalt	2000	2010	100.5	2000	2020	101.0	2000	2060	103.0
Copper	2000	2040	102.0	2000	2020	101.0	2000	2020	101.0
Iron	40000	41100	102.8	40000	40500	101.3	40000	41000	102.5
Lead	2000	2090	104.5	2000	2040	102.0	2000	2090	104.5
Lithium									
Magnesium	40000	39700	99.3	40000	39100	97.8	40000	40200	100.5
Manganese	2000	2100	105.0	2000	2020	101.0	2000	2060	103.0
Molybdenum									
Nickel	2000	2070	103.5	2000	2040	102.0	2000	2100	105.0
Phosphorus									
Potassium	40000	39800	99.5	40000	39800	99.5	40000	42500	106.3
Selenium	2000	2000	100.0	2000	2030	101.5	2000	2100	105.0
Silicon									
Silver	250	254	101.6	250	250	100.0	250	248	99.2
Sodium	40000	40400	101.0	40000	39900	99.8	40000	40300	100.8
Strontium									
Sulfur									
Thallium	2000	2120	106.0*(a	2000	2130	106.5	2000	2190	109.5
Tin									
Titanium									
Tungsten									
Vanadium	2000	2040	102.0	2000	2020	101.0	2000	1980	99.0

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56403 Units: ug/l

Time:		12:21			12:32			13:40	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2060	103.0	2000	2020	101.0	2000	2070	103.5
Zirconium									

(*) Outside of QC limits
(anr) Analyte not requested
(a) Within 90 to 110 percent limits required for SW846 6010. No EPA 200.7 samples reported for this element in the area bracketed by this QC.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56403 Units: ug/l

Time:		14:40			15:40	
Sample ID:	CCV	CCV3		CCV	CCV4	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum	40000	40700	101.8	40000	41700	104.3
Antimony	2000	2110	105.5	2000	2150	107.5
Arsenic	2000	2090	104.5	2000	2140	107.0
Barium	2000	2080	104.0	2000	2060	103.0
Beryllium	2000	2100	105.0	2000	2100	105.0
Bismuth						
Boron						
Cadmium	2000	2080	104.0	2000	2110	105.5
Calcium	40000	41300	103.3	40000	42300	105.8
Cerium						
Chromium	2000	2030	101.5	2000	2010	100.5
Cobalt	2000	2060	103.0	2000	2100	105.0
Copper	2000	2060	103.0	2000	2060	103.0
Iron	40000	41300	103.3	40000	41300	103.3
Lead	2000	2080	104.0	2000	2110	105.5
Lithium						
Magnesium	40000	39900	99.8	40000	40000	100.0
Manganese	2000	2050	102.5	2000	2060	103.0
Molybdenum						
Nickel	2000	2080	104.0	2000	2120	106.0
Phosphorus						
Potassium	40000	40500	101.3	40000	41400	103.5
Selenium	2000	2070	103.5	2000	2130	106.5
Silicon						
Silver	250	253	101.2	250	253	101.2
Sodium	40000	40600	101.5	40000	40800	102.0
Strontium						
Sulfur						
Thallium	2000	2170	108.5	2000	2200	110.0
Tin						
Titanium						
Tungsten						
Vanadium	2000	2040	102.0	2000	2030	101.5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA56403 Units: ug/l

Time:		14:40			15:40	
Sample ID:	CCV	CCV3		CCV	CCV4	
Metal	True	Results	% Rec	True	Results	% Rec
Zinc	2000	2050	102.5	2000	2090	104.5
Zirconium						

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56403 Units: ug/l

Time:		13:08			13:14	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum				300000	309000	103.0
Antimony	8000	8310	103.9			
Arsenic	8000	8170	102.1			
Barium	8000	7940	99.3			
Beryllium	8000	7880	98.5			
Bismuth						
Boron						
Cadmium	8000	8040	100.5			
Calcium				200000	199000	99.5
Cerium						
Chromium	8000	8050	100.6			
Cobalt	8000	7960	99.5			
Copper	8000	7930	99.1			
Iron				200000	195000	97.5
Lead	8000	8140	101.8			
Lithium						
Magnesium				300000	304000	101.3
Manganese	8000	8020	100.3			
Molybdenum						
Nickel	8000	7990	99.9			
Phosphorus						
Potassium				200000	211000	105.5
Selenium	8000	8280	103.5			
Silicon						
Silver	625	635	101.6			
Sodium				200000	208000	104.0
Strontium						
Sulfur						
Thallium	8000	8450	105.6			
Tin						
Titanium						
Tungsten						
Vanadium	8000	8060	100.8			

HIGH STANDARD CHECK SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA56403 Units: ug/l

Time:		13:08			13:14	
Sample ID:	HSTD	HSTD1		HSTD	HSTD2	
Metal	True	Results	% Rec	True	Results	% Rec
Zinc	8000	8210	102.6			
Zirconium						

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56403 Units: ug/l

Time:				12:48		12:53	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Aluminum	200	500	100	194	97.0	92.5	92.5
Antimony	6.0	20	3.0	6.20	103.3		
Arsenic	8.0	20	3.0	8.40	105.0	2.80	93.3
Barium	200		4.0	204	102.0	4.10	102.5
Beryllium	2.0		1.0	2.00	100.0	1.00	100.0
Bismuth	20						
Boron	100		10				
Cadmium	3.0		1.0	3.00	100.0	1.00	100.0
Calcium	5000	2000	1000	5400	108.0	999	99.9
Cerium							
Chromium	10		2.0	10.1	101.0	2.20	110.0
Cobalt	50		3.0	50.5	101.0	2.90	96.7
Copper	10		2.0	9.60	96.0		
Iron	100	500		97.6	97.6		
Lead	3.0	20	2.5	3.50	116.7		
Lithium	50						
Magnesium	5000	2000	100	5120	102.4	92.7	92.7
Manganese	15		3.0	15.1	100.7	3.00	100.0
Molybdenum	20						
Nickel	10		4.0	10.4	104.0	3.80	95.0
Phosphorus	50						
Potassium	5000		2000	5100	102.0	1870	93.5
Selenium	10	20	5.0	11.6	116.0		
Silicon	200						
Silver	5.0		2.0	4.80	96.0		
Sodium	5000		1000	5020	100.4	975	97.5
Strontium	10						
Sulfur	50						
Thallium	10		2.0	11.4	114.0		
Tin	10						
Titanium	10						
Tungsten	50						
Vanadium	50		2.0	49.0	98.0	1.90	95.0

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
QC Limits: CRI 80-120% CRIA 80-120% Run ID: MA56403 Units: ug/l

Time:				12:48		12:53	
Sample ID:	CRI	CRIA	CRID	CRI1		CRID1	
Metal	True	True	True	Results	% Rec	Results	% Rec
Zinc	20		10	20.3	101.5	10.5	105.0
Zirconium	10						

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56403 Units: ug/l

Time:			12:58		13:03	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	506000	101.2	506000	101.2
Antimony		1000	4.70		990	99.0
Arsenic		1000	0.600		978	97.8
Barium		500	-1.30		517	103.4
Beryllium		500	0.100		522	104.4
Bismuth		500	3.90		476	95.2
Boron		500	-4.80		472	94.4
Cadmium		1000	-0.600		1040	104.0
Calcium	400000	400000	376000	94.0	376000	94.0
Cerium			15.6		8.90	
Chromium		500	-0.100		479	95.8
Cobalt		500	7.90		491	98.2
Copper		500	-4.00		537	107.4
Iron	200000	200000	190000	95.0	190000	95.0
Lead		1000	-0.800		964	96.4
Lithium		500	-9.50		540	108.0
Magnesium	500000	500000	507000	101.4	507000	101.4
Manganese		500	-3.70		522	104.4
Molybdenum		500	-3.80		463	92.6
Nickel		1000	5.60		960	96.0
Phosphorus		500	-16.9		454	90.8
Potassium			-47.5		-43.5	
Selenium		1000	-1.40		966	96.6
Silicon		500	-19.4		515	103.0
Silver		1000	4.00		1150	115.0
Sodium			-45.8		-39.5	
Strontium		500	-6.50		513	102.6
Sulfur		500	-34.9		442	88.4
Thallium		1000	5.20		963	96.3
Tin		500	1.10		470	94.0
Titanium		500	-0.400		486	97.2
Tungsten		500	-3.60		481	96.2
Vanadium		500	0.00		505	101.0

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: SD070224M1.ICP Date Analyzed: 07/02/24 Methods: EPA 200.7, SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA56403 Units: ug/l

Time:			12:58		13:03	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Zinc		1000	-8.40		935	93.5
Zirconium		500	0.100		473	94.6

(*) Outside of QC limits
(anr) Analyte not requested

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070324S1.CSV Date Analyzed: 07/03/24 Methods: SW846 7471B
Analyst: MK Run ID: MA56407
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:41	MA56407-STD1	1		b=1.0518e-004,c=4.2344e-001,rho=0.9994971
09:44	MA56407-STD2	1		STDB
09:46	MA56407-STD3	1		STDC
09:49	MA56407-STD4	1		STDD
09:53	MA56407-STD5	1		STDE
09:54	MA56407-STD6	1		STDF
09:58	ZZZZZZ	1		
10:00	MA56407-ICV1	1		
10:03	MA56407-ICB1	1		
10:05	MA56407-CCV1	1		
10:06	MA56407-CCB1	1		
10:08	MA56407-CRI1	1		
10:13	MP47629-MB1	1		
10:15	MP47629-B1	1		
10:17	MP47629-S1	1		
10:19	MP47629-S2	1		
10:21	JD91349-5	1		(sample used for QC only; not part of login JD91339)
10:24	ZZZZZZ	1		
10:26	ZZZZZZ	1		
10:28	ZZZZZZ	1		
10:30	MA56407-CCV2	1		
10:34	MA56407-CCB2	1		
10:40	ZZZZZZ	1		
10:44	ZZZZZZ	1		
10:46	ZZZZZZ	1		
10:49	ZZZZZZ	1		
10:51	ZZZZZZ	1		
10:52	ZZZZZZ	1		
10:56	ZZZZZZ	1		
10:57	ZZZZZZ	1		
11:00	MA56407-CCV3	1		
11:02	MA56407-CCB3	1		
11:04	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070324S1.CSV Date Analyzed: 07/03/24 Methods: SW846 7471B
Analyst: MK Run ID: MA56407
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:06	ZZZZZZ	1		
11:09	ZZZZZZ	1		
11:11	JD91339-1	1		
11:14	JD91339-2	1		
11:16	JD91339-3	1		
11:18	JD91339-4	1		
11:20	JD91339-5	1		
11:22	MA56407-CCV4	1		
11:24	MA56407-CCB4	1		
11:26	MP47630-MB1	1		
11:28	MP47630-B1	1		
11:29	MP47630-S1	1		
11:31	MP47630-S2	1		
11:34	JD91339-6	1		
11:36	JD91339-7	1		
11:40	JD91339-8	1		
11:44	JD91339-9	1		
11:46	MA56407-CCV5	1		
11:48	MA56407-CCB5	1		
11:50	JD91339-10	1		
11:53	JD91339-11	1		
11:55	ZZZZZZ	1		
11:59	MP47655-MB1	1		
12:01	MP47655-B1	1		
12:03	MP47655-S1	1		
12:05	MP47655-S2	1		
12:08	JD91339-13	1		
12:10	MA56407-CCV6	1		
12:12	MA56407-CCB6	1		
12:14	JD91339-14	1		
12:16	ZZZZZZ	1		
12:20	ZZZZZZ	1		
12:26	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070324S1.CSV Date Analyzed: 07/03/24 Methods: SW846 7471B
Analyst: MK Run ID: MA56407
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:33	ZZZZZZ	1		
12:35	ZZZZZZ	1		
12:37	ZZZZZZ	1		
12:38	ZZZZZZ	1		
12:40	MA56407-CCV7	1		
12:42	MA56407-CCB7	1		
12:44	ZZZZZZ	1		
12:46	ZZZZZZ	1		
12:48	ZZZZZZ	1		
12:50	ZZZZZZ	1		
12:51	ZZZZZZ	1		
12:53	ZZZZZZ	1		
12:55	ZZZZZZ	1		
12:57	ZZZZZZ	1		
12:59	MA56407-CCV8	1		
13:00	MA56407-CCB8	1		
13:02	MP47656-MB1	1		
13:03	MP47656-B1	1		
13:05	MP47656-S1	1		
13:08	MP47656-S2	1		
13:10	JD91444-8	1		(sample used for QC only; not part of login JD91339)
13:11	ZZZZZZ	1		
13:14	ZZZZZZ	1		
13:16	ZZZZZZ	1		
13:17	MA56407-CCV9	1		
13:19	MA56407-CCB9	1		
13:21	ZZZZZZ	1		
13:23	ZZZZZZ	1		
13:24	ZZZZZZ	1		
13:26	ZZZZZZ	1		
13:28	ZZZZZZ	1		
13:29	ZZZZZZ	1		
13:32	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070324S1.CSV Date Analyzed: 07/03/24 Methods: SW846 7471B
Analyst: MK Run ID: MA56407
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:33	ZZZZZZ	1		
13:36	MA56407-CCV10	1		
13:38	MA56407-CCB10	1		
13:39	ZZZZZZ	1		
13:41	ZZZZZZ	1		
13:45	ZZZZZZ	1		
13:47	ZZZZZZ	1		
13:48	ZZZZZZ	1		
13:50	ZZZZZZ	1		
13:52	ZZZZZZ	1		
13:53	ZZZZZZ	1		
13:55	MA56407-CCV11	1		
13:56	MA56407-CCB11	1		
14:00	MP47629-MB1	1		
14:02	ZZZZZZ	2		
14:03	JD91339-5	2		
14:05	ZZZZZZ	50		
14:10	ZZZZZZ	50		
14:12	MP47655-PS	1		
14:17	MP47630-PS	1		
14:22	ZZZZZZ	500		
14:23	ZZZZZZ	500		
14:29	MP47629-PS	1		
---------->	Last reportable sample/prep for job JD91339			
14:32	MA56407-CCV12	1		
14:35	MA56407-CCB12	1		
---------->	Last reportable CCB for job JD91339			

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070324S1.CSV Date Analyzed: 07/03/24 Methods: SW846 7471B
Analyst: MK Run ID: MA56407
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
09:58	ZZZZZZ	1		
10:00	MA56407-ICV1	1	X	
10:03	MA56407-ICB1	1	X	
10:05	MA56407-CCV1	1	X	
10:06	MA56407-CCB1	1	X	
10:08	MA56407-CRI1	1	X	
10:13	MP47629-MB1	1		
10:15	MP47629-B1	1	X	
10:17	MP47629-S1	1	X	
10:19	MP47629-S2	1	X	
10:21	JD91349-5	1	X	(a)
10:24	ZZZZZZ	1		
10:26	ZZZZZZ	1		
10:28	ZZZZZZ	1		
10:30	MA56407-CCV2	1	X	
10:34	MA56407-CCB2	1	X	
10:40	ZZZZZZ	1		
10:44	ZZZZZZ	1		
10:46	ZZZZZZ	1		
10:49	ZZZZZZ	1		
10:51	ZZZZZZ	1		
10:52	ZZZZZZ	1		
10:56	ZZZZZZ	1		
10:57	ZZZZZZ	1		
11:00	MA56407-CCV3	1	X	
11:02	MA56407-CCB3	1	X	
11:04	ZZZZZZ	1		
11:06	ZZZZZZ	1		
11:09	ZZZZZZ	1		
11:11	JD91339-1	1	X	
11:14	JD91339-2	1	X	
11:16	JD91339-3	1	X	
11:18	JD91339-4	1	X	
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070324S1.CSV Date Analyzed: 07/03/24 Methods: SW846 7471B
Analyst: MK Run ID: MA56407
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg
11:20	JD91339-5	1	
11:22	MA56407-CCV4	1	X
11:24	MA56407-CCB4	1	X
11:26	MP47630-MB1	1	X
11:28	MP47630-B1	1	X
11:29	MP47630-S1	1	X
11:31	MP47630-S2	1	X
11:34	JD91339-6	1	X
11:36	JD91339-7	1	X
11:40	JD91339-8	1	X
11:44	JD91339-9	1	X
11:46	MA56407-CCV5	1	X
11:48	MA56407-CCB5	1	X
11:50	JD91339-10	1	X
11:53	JD91339-11	1	X
11:55	ZZZZZZ	1	
11:59	MP47655-MB1	1	X
12:01	MP47655-B1	1	X
12:03	MP47655-S1	1	X
12:05	MP47655-S2	1	X
12:08	JD91339-13	1	X
12:10	MA56407-CCV6	1	X
12:12	MA56407-CCB6	1	X
12:14	JD91339-14	1	X
12:16	ZZZZZZ	1	
12:20	ZZZZZZ	1	
12:26	ZZZZZZ	1	
12:33	ZZZZZZ	1	
12:35	ZZZZZZ	1	
12:37	ZZZZZZ	1	
12:38	ZZZZZZ	1	
12:40	MA56407-CCV7	1	X
12:42	MA56407-CCB7	1	X
		Element:	Hg

REPORTED ELEMENTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070324S1.CSV Date Analyzed: 07/03/24 Methods: SW846 7471B
Analyst: MK Run ID: MA56407
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg	
12:44	ZZZZZZ	1		
12:46	ZZZZZZ	1		
12:48	ZZZZZZ	1		
12:50	ZZZZZZ	1		
12:51	ZZZZZZ	1		
12:53	ZZZZZZ	1		
12:55	ZZZZZZ	1		
12:57	ZZZZZZ	1		
12:59	MA56407-CCV8	1	X	
13:00	MA56407-CCB8	1	X	
13:02	MP47656-MB1	1	X	
13:03	MP47656-B1	1	X	
13:05	MP47656-S1	1	X	
13:08	MP47656-S2	1	X	
13:10	JD91444-8	1	X	(a)
13:11	ZZZZZZ	1		
13:14	ZZZZZZ	1		
13:16	ZZZZZZ	1		
13:17	MA56407-CCV9	1	X	
13:19	MA56407-CCB9	1	X	
13:21	ZZZZZZ	1		
13:23	ZZZZZZ	1		
13:24	ZZZZZZ	1		
13:26	ZZZZZZ	1		
13:28	ZZZZZZ	1		
13:29	ZZZZZZ	1		
13:32	ZZZZZZ	1		
13:33	ZZZZZZ	1		
13:36	MA56407-CCV10	1	X	
13:38	MA56407-CCB10	1	X	
13:39	ZZZZZZ	1		
13:41	ZZZZZZ	1		
13:45	ZZZZZZ	1		
		Element:	Hg	

REPORTED ELEMENTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070324S1.CSV Date Analyzed: 07/03/24 Methods: SW846 7471B
Analyst: MK Run ID: MA56407
Parameters: Hg

Time	Sample Description	Element: Dilution	Hg
13:47	ZZZZZZ	1	
13:48	ZZZZZZ	1	
13:50	ZZZZZZ	1	
13:52	ZZZZZZ	1	
13:53	ZZZZZZ	1	
13:55	MA56407-CCV11	1	X
13:56	MA56407-CCB11	1	X
14:00	MP47629-MB1	1	X
14:02	ZZZZZZ	2	
14:03	JD91339-5	2	X
14:05	ZZZZZZ	50	
14:10	ZZZZZZ	50	
14:12	MP47655-PS	1	X
14:17	MP47630-PS	1	X
14:22	ZZZZZZ	500	
14:23	ZZZZZZ	500	
14:29	MP47629-PS	1	X
14:32	MA56407-CCV12	1	X
14:35	MA56407-CCB12	1	X

(a) Sample used for QC only; not part of login JD91339.

Element: Hg

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070324S1.CSV Date Analyzed: 07/03/24 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA56407 Units: ug/l

Time:			10:03		10:06		10:34		11:02	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.013	0.00380	<0.20	-0.0377	<0.20	0.0269	<0.20	-0.0226	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070324S1.CSV Date Analyzed: 07/03/24 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA56407 Units: ug/l

Time:			11:24		11:48		12:12		12:42	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.013	-0.0634	<0.20	-0.0933	<0.20	-0.0683	<0.20	-0.0968	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070324S1.CSV Date Analyzed: 07/03/24 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA56407 Units: ug/l

Time:			13:00		13:19		13:38		13:56	
Sample ID:			CCB8		CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.20	.013	-0.159	<0.20	-0.0230	<0.20	-0.149	<0.20	-0.00380	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070324S1.CSV Date Analyzed: 07/03/24 Methods: SW846 7471B
QC Limits: result < RL Run ID: MA56407 Units: ug/l

Time:			14:35	
Sample ID:			CCB12	
Metal	RL	IDL	raw	final
Mercury	0.20	.013	0.0272	<0.20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070324S1.CSV Date Analyzed: 07/03/24 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA56407 Units: ug/l

Time:		10:00			10:05			10:30	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3	3.05	101.7	2.5	2.46	98.4	2.5	2.36	94.4

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070324S1.CSV Date Analyzed: 07/03/24 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA56407 Units: ug/l

Time:		11:00			11:22			11:46	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.45	98.0	2.5	2.41	96.4	2.5	2.39	95.6

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070324S1.CSV Date Analyzed: 07/03/24 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA56407 Units: ug/l

Time:		12:10			12:40			12:59	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.32	92.8	2.5	2.50	100.0	2.5	2.45	98.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070324S1.CSV Date Analyzed: 07/03/24 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA56407 Units: ug/l

Time:		13:17			13:36			13:55	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	2.5	2.30	92.0	2.5	2.31	92.4	2.5	2.37	94.8

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070324S1.CSV Date Analyzed: 07/03/24 Methods: SW846 7471B
QC Limits: 90 to 110 % Recovery Run ID: MA56407 Units: ug/l

Time:		14:32	
Sample ID:	CCV	CCV12	
Metal	True	Results	% Rec
Mercury	2.5	2.41	96.4

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: H8070324S1.CSV Date Analyzed: 07/03/24 Methods: SW846 7471B
QC Limits: 70 to 130 % Recovery Run ID: MA56407 Units: ug/l

Time:			10:08	
Sample ID:	CRI	CRIA	CRI1	
Metal	True	True	Results	% Rec
Mercury	0.20		0.149	74.5

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47600
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 07/01/24

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	2.7	8.1	1.8	<50
Antimony	2.0	.22	.41	-0.090	<2.0
Arsenic	2.0	.13	.28	-0.080	<2.0
Barium	20	.1	1.9	0.060	<20
Beryllium	0.20	.02	.08	0.020	<0.20
Bismuth	2.0	.21	.52		
Boron	10	.1	3.7		
Cadmium	0.50	.02	.07	0.020	<0.50
Calcium	500	.77	21	10.6	<500
Chromium	1.0	.05	.37	0.080	<1.0
Cobalt	5.0	.04	.28	0.0	<5.0
Copper	2.5	.68	.84	0.25	<2.5
Iron	50	1.5	19	4.3	<50
Lead	2.0	.16	.41	0.060	<2.0
Lithium	5.0	.37	.92		
Magnesium	500	5.4	14	2.7	<500
Manganese	1.5	.01	.41	0.050	<1.5
Molybdenum	2.0	.05	.32		
Nickel	4.0	.03	.35	0.020	<4.0
Phosphorus	20	.18	3.3		
Potassium	1000	7.7	32	-0.14	<1000
Selenium	2.0	.2	.65	0.24	<2.0
Silicon	20	.13	11		
Silver	0.50	.09	.17	-0.030	<0.50
Sodium	1000	2.3	78	3.9	<1000
Strontium	5.0	.04	.18		
Sulfur	10	.41	3.9		
Thallium	1.0	.16	.58	-0.10	<1.0
Tin	20	.09	3.8		
Titanium	1.0	.09	.34		
Tungsten	5.0	.2	1.8		
Vanadium	5.0	.08	.19	0.050	<5.0
Zinc	5.0	.02	2.3	1.3	<5.0

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47600 Methods: SW846 6010D
Matrix Type: SOLID Units: mg/kg

Prep Date: 07/01/24

Metal	RL	IDL	MDL	MB raw	final
Zirconium	2.0	.05	.54		

Associated samples MP47600: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47600
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 07/01/24

Metal	JD91339-1 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	10500	15000	2780	161.6N(a	75-125
Antimony	0.58	101	223	45.1N(a)	75-125
Arsenic	6.6	202	223	87.7	75-125
Barium	45.1	264	223	98.3	75-125
Beryllium	0.43	220	223	98.6	75-125
Bismuth					
Boron					
Cadmium	0.19	204	223	91.5	75-125
Calcium	197	2850	2780	95.3	75-125
Chromium	10.9	232	223	99.3	75-125
Cobalt	3.1	210	223	92.9	75-125
Copper	14.1	230	223	96.9	75-125
Iron	14800	15000	2780	7.2 (b)	75-125
Lead	53.0	247	223	87.1	75-125
Lithium					
Magnesium	1310	4170	2780	102.7	75-125
Manganese	204	377	223	77.7	75-125
Molybdenum					
Nickel	7.4	215	223	93.2	75-125
Potassium	196	2880	2780	96.4	75-125
Selenium	1.3	195	223	87.0	75-125
Silicon					
Silver	0.19	28.6	27.8	102.0	75-125
Sodium	18.4	2750	2780	98.1	75-125
Strontium					
Sulfur					
Thallium	0.0	186	223	83.5	75-125
Tin					
Titanium					
Tungsten					
Vanadium	21.0	240	223	98.3	75-125
Zinc	33.7	250	223	97.1	75-125
Zirconium					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47600
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 07/01/24

Metal	JD91339-1 Original MS	Spikelot MPSPK2	% Rec	QC Limits

Associated samples MP47600: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47600
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 07/01/24

Metal	JD91339-1 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	10500	17100	2840	232.3N(a	13.1	20
Antimony	0.58	96.3	227	42.1N(a)	4.8	20
Arsenic	6.6	207	227	88.2	2.4	20
Barium	45.1	265	227	96.8	0.4	20
Beryllium	0.43	222	227	97.5	0.9	20
Bismuth						
Boron						
Cadmium	0.19	207	227	91.0	1.5	20
Calcium	197	2940	2840	96.6	3.1	20
Chromium	10.9	234	227	98.2	0.9	20
Cobalt	3.1	212	227	91.9	0.9	20
Copper	14.1	235	227	97.2	2.2	20
Iron	14800	18200	2840	119.7	19.3	20
Lead	53.0	260	227	91.1	5.1	20
Lithium						
Magnesium	1310	4360	2840	107.4	4.5	20
Manganese	204	422	227	95.9	11.3	20
Molybdenum						
Nickel	7.4	218	227	92.7	1.4	20
Potassium	196	2930	2840	96.2	1.7	20
Selenium	1.3	199	227	87.0	2.0	20
Silicon						
Silver	0.19	28.8	28.4	100.7	0.7	20
Sodium	18.4	2760	2840	96.5	0.4	20
Strontium						
Sulfur						
Thallium	0.0	187	227	82.3	0.5	20
Tin						
Titanium						
Tungsten						
Vanadium	21.0	246	227	99.0	2.5	20
Zinc	33.7	248	227	94.3	0.8	20
Zirconium						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47600 Methods: SW846 6010D
Matrix Type: SOLID Units: mg/kg

Prep Date: 07/01/24

Metal	JD91339-1 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit

Associated samples MP47600: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47600
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 07/01/24

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	2350	2500	94.0	80-120
Antimony	180	200	90.0	80-120
Arsenic	183	200	91.5	80-120
Barium	196	200	98.0	80-120
Beryllium	199	200	99.5	80-120
Bismuth				
Boron				
Cadmium	188	200	94.0	80-120
Calcium	2440	2500	97.6	80-120
Chromium	197	200	98.5	80-120
Cobalt	190	200	95.0	80-120
Copper	191	200	95.5	80-120
Iron	2520	2500	100.8	80-120
Lead	191	200	95.5	80-120
Lithium				
Magnesium	2410	2500	96.4	80-120
Manganese	194	200	97.0	80-120
Molybdenum				
Nickel	191	200	95.5	80-120
Phosphorus				
Potassium	2340	2500	93.6	80-120
Selenium	182	200	91.0	80-120
Silicon				
Silver	24.9	25	99.6	80-120
Sodium	2460	2500	98.4	80-120
Strontium				
Sulfur				
Thallium	177	200	88.5	80-120
Tin				
Titanium				
Tungsten				
Vanadium	197	200	98.5	80-120
Zinc	196	200	98.0	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47600
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 07/01/24

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP47600: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47600
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 07/01/24

Metal	JD91339-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	93900	94800	1.0	0-10
Antimony	5.20	0.00	100.0(a)	0-10
Arsenic	59.7	65.4	9.5	0-10
Barium	405	412	1.6	0-10
Beryllium	3.90	3.50	10.3 (a)	0-10
Bismuth				
Boron				
Cadmium	1.70	2.10	23.5 (a)	0-10
Calcium	1770	1850	4.6	0-10
Chromium	98.2	98.4	0.2	0-10
Cobalt	28.0	28.6	2.1	0-10
Copper	126	122	3.7	0-10
Iron	133000	138000	3.5	0-10
Lead	476	509	7.0	0-10
Lithium				
Magnesium	11800	12100	2.5	0-10
Manganese	1830	1870	1.9	0-10
Molybdenum				
Nickel	66.7	67.1	0.6	0-10
Phosphorus				
Potassium	1760	1750	0.3	0-10
Selenium	11.7	0.00	100.0(a)	0-10
Silicon				
Silver	1.70	0.00	100.0(a)	0-10
Sodium	165	118	28.6 (a)	0-10
Strontium				
Sulfur				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Tungsten				
Vanadium	189	188	0.3	0-10
Zinc	303	320	5.6	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47600
Matrix Type: SOLID
Methods: SW846 6010D
Units: ug/l

Prep Date: 07/01/24

Metal	JD91339-1 Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP47600: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47600
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 07/01/24

Metal	Sample ml	Final ml	JD91339-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	19.25	20	5.2	5.005	1894	0.2	200	2000	94.4	80-120
Arsenic										
Barium										
Beryllium										
Bismuth										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Lithium										
Magnesium										
Manganese										
Molybdenum										
Nickel										
Phosphorus										
Potassium										
Selenium										
Silicon										
Silver										
Sodium										
Strontium										
Sulfur										
Thallium										
Tin										
Titanium										
Tungsten										
Vanadium										
Zinc										

POST DIGESTATE SPIKE SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47600
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 07/01/24

Metal	Sample ml	Final ml	JD91339-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Zirconium										

Associated samples MP47600: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47605
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 07/01/24

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	2.7	8.1	0.51	<50
Antimony	2.0	.22	.41	-0.25	<2.0
Arsenic	2.0	.13	.28	0.070	<2.0
Barium	20	.1	1.9	0.070	<20
Beryllium	0.20	.02	.08	0.020	<0.20
Bismuth	2.0	.21	.52		
Boron	10	.1	3.7		
Cadmium	0.50	.02	.07	0.010	<0.50
Calcium	500	.77	21	10.2	<500
Chromium	1.0	.05	.37	0.060	<1.0
Cobalt	5.0	.04	.28	0.0	<5.0
Copper	2.5	.68	.84	0.35	<2.5
Iron	50	1.5	19	3.5	<50
Lead	2.0	.16	.41	0.060	<2.0
Lithium	5.0	.37	.92		
Magnesium	500	5.4	14	3.7	<500
Manganese	1.5	.01	.41	0.070	<1.5
Molybdenum	2.0	.05	.32		
Nickel	4.0	.03	.35	0.030	<4.0
Phosphorus	20	.18	3.3		
Potassium	1000	7.7	32	-1.8	<1000
Selenium	2.0	.2	.65	0.060	<2.0
Silicon	20	.13	11		
Silver	0.50	.09	.17	-0.070	<0.50
Sodium	1000	2.3	78	4.4	<1000
Strontium	5.0	.04	.18		
Sulfur	10	.41	3.9		
Thallium	1.0	.16	.58	-0.030	<1.0
Tin	20	.09	3.8		
Titanium	1.0	.09	.34		
Tungsten	5.0	.2	1.8		
Vanadium	5.0	.08	.19	0.020	<5.0
Zinc	5.0	.02	2.3	2.1	<5.0

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47605
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 07/01/24

Metal	RL	IDL	MDL	MB raw	final
Zirconium	2.0	.05	.54		

Associated samples MP47605: JD91339-13, JD91339-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47605
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 07/01/24

Metal	JD91373-1 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	8660	12300	2940	124.0	75-125
Antimony	0.33	136	235	57.8N(a)	75-125
Arsenic	7.6	216	235	88.7	75-125
Barium	90.8	285	235	82.7	75-125
Beryllium	0.68	224	235	95.1	75-125
Bismuth					
Boron					
Cadmium	0.46	219	235	93.0	75-125
Calcium	4760	5830	2940	36.4N(a)	75-125
Chromium	12.9	231	235	92.9	75-125
Cobalt	7.0	222	235	91.5	75-125
Copper	17.7	234	235	92.1	75-125
Iron	14700	13600	2940	-37.5(b)	75-125
Lead	48.4	250	235	85.8	75-125
Lithium					
Magnesium	2180	4830	2940	90.3	75-125
Manganese	473	691	235	92.8	75-125
Molybdenum					
Nickel	13.7	230	235	92.1	75-125
Phosphorus					
Potassium	810	3910	2940	105.6	75-125
Selenium	0.0	215	235	91.5	75-125
Silicon					
Silver	0.27	29.2	29.4	98.5	75-125
Sodium	76.8	2880	2940	95.5	75-125
Strontium					
Sulfur					
Thallium	0.0	202	235	86.0	75-125
Tin					
Titanium					
Tungsten					
Vanadium	24.3	241	235	92.3	75-125
Zinc	76.1	269	235	82.1	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47605 Methods: SW846 6010D
Matrix Type: SOLID Units: mg/kg

Prep Date: 07/01/24

Metal	JD91373-1 Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP47605: JD91339-13, JD91339-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47605
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 07/01/24

Metal	JD91373-1 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	8660	14400	2910	197.5N(a	15.7	20
Antimony	0.33	127	232	54.5N(a)	6.8	20
Arsenic	7.6	223	232	92.7	3.2	20
Barium	90.8	317	232	97.3	10.6	20
Beryllium	0.68	229	232	98.2	2.2	20
Bismuth						
Boron						
Cadmium	0.46	225	232	96.6	2.7	20
Calcium	4760	8190	2910	118.0	33.7 (b)	20
Chromium	12.9	243	232	99.0	5.1	20
Cobalt	7.0	231	232	96.4	4.0	20
Copper	17.7	246	232	98.2	5.0	20
Iron	14700	16100	2910	48.2 (c)	16.8	20
Lead	48.4	268	232	94.5	6.9	20
Lithium						
Magnesium	2180	5650	2910	119.4	15.6	20
Manganese	473	818	232	148.4N(a	16.8	20
Molybdenum						
Nickel	13.7	238	232	96.5	3.4	20
Phosphorus						
Potassium	810	4200	2910	116.7	7.2	20
Selenium	0.0	218	232	93.8	1.4	20
Silicon						
Silver	0.27	30.5	29.1	104.0	4.4	20
Sodium	76.8	3000	2910	100.6	4.1	20
Strontium						
Sulfur						
Thallium	0.0	205	232	88.2	1.5	20
Tin						
Titanium						
Tungsten						
Vanadium	24.3	257	232	100.1	6.4	20
Zinc	76.1	292	232	92.9	8.2	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47605 Methods: SW846 6010D
Matrix Type: SOLID Units: mg/kg

Prep Date: 07/01/24

Metal	JD91373-1 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP47605: JD91339-13, JD91339-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) High rpd due to possible sample nonhomogeneity.
(c) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47605
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 07/01/24

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	2460	2500	98.4	80-120
Antimony	194	200	97.0	80-120
Arsenic	195	200	97.5	80-120
Barium	205	200	102.5	80-120
Beryllium	209	200	104.5	80-120
Bismuth				
Boron				
Cadmium	202	200	101.0	80-120
Calcium	2530	2500	101.2	80-120
Chromium	210	200	105.0	80-120
Cobalt	199	200	99.5	80-120
Copper	205	200	102.5	80-120
Iron	2630	2500	105.2	80-120
Lead	203	200	101.5	80-120
Lithium				
Magnesium	2510	2500	100.4	80-120
Manganese	205	200	102.5	80-120
Molybdenum				
Nickel	200	200	100.0	80-120
Phosphorus				
Potassium	2450	2500	98.0	80-120
Selenium	200	200	100.0	80-120
Silicon				
Silver	27.1	25	108.4	80-120
Sodium	2570	2500	102.8	80-120
Strontium				
Sulfur				
Thallium	190	200	95.0	80-120
Tin				
Titanium				
Tungsten				
Vanadium	209	200	104.5	80-120
Zinc	204	200	102.0	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47605
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 07/01/24

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP47605: JD91339-13, JD91339-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47605
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 07/01/24

Metal	JD91373-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	79100	78100	1.3	0-10
Antimony	3.00	0.00	100.0(a)	0-10
Arsenic	69.7	74.5	6.9	0-10
Barium	830	834	0.6	0-10
Beryllium	6.20	5.90	4.8	0-10
Bismuth				
Boron				
Cadmium	4.20	3.80	9.5	0-10
Calcium	43500	43900	0.9	0-10
Chromium	118	127	7.8	0-10
Cobalt	63.6	68.3	7.4	0-10
Copper	162	165	2.0	0-10
Iron	135000	143000	5.8	0-10
Lead	442	465	5.2	0-10
Lithium				
Magnesium	19900	20400	2.5	0-10
Manganese	4320	4680	8.4	0-10
Molybdenum				
Nickel	125	131	4.6	0-10
Phosphorus				
Potassium	7400	7100	4.1	0-10
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	2.50	0.00	100.0(a)	0-10
Sodium	702	788	12.3 (a)	0-10
Strontium				
Sulfur				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Tungsten				
Vanadium	222	231	4.3	0-10
Zirconium				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47605
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 07/01/24

Metal	JD91373-1 Original SDL 1:5	%DIF	QC Limits

Associated samples MP47605: JD91339-13, JD91339-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

POST DIGESTATE SPIKE SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47605
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 07/01/24

Metal	Sample ml	Final ml	JD91373-1 Raw	JD91373-1 Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	19.25	20	3	2.8875	2080	0.2	200	2000	103.9	80-120
Arsenic										
Barium										
Beryllium										
Bismuth										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Lithium										
Magnesium										
Manganese										
Molybdenum										
Nickel										
Phosphorus										
Potassium										
Selenium										
Silicon										
Silver										
Sodium										
Strontium										
Sulfur										
Thallium										
Tin										
Titanium										
Tungsten										
Vanadium										
Zinc										

POST DIGESTATE SPIKE SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47605
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 07/01/24

Metal	Sample ml	Final ml	JD91373-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Zirconium										

Associated samples MP47605: JD91339-13, JD91339-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47607
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 07/01/24

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	27	150	-13	<200
Antimony	6.0	2.2	4.7	-0.80	<6.0
Arsenic	3.0	1.3	2.8	0.0	<3.0
Barium	200	1	13	0.0	<200
Beryllium	1.0	.2	.5	0.0	<1.0
Bismuth	20	2.1	8.6		
Boron	100	1	10		
Cadmium	3.0	.2	1	0.0	<3.0
Calcium	5000	7.7	99	17.7	<5000
Cerium	100				
Chromium	10	.5	2	-0.10	<10
Cobalt	50	.4	2.6	-0.10	<50
Copper	10	6.8	5.9	0.50	<10
Iron	100	15	32	23.8	<100
Lead	3.0	1.6	1.8	-0.90	<3.0
Lithium	50	3.7	7.3		
Magnesium	5000	54	140	2.9	<5000
Manganese	15	.1	1.4	0.10	<15
Molybdenum	20	.5	3.6		
Nickel	10	.3	1.7	-0.20	<10
Phosphorus	50	1.8	18		
Potassium	10000	77	200	19.3	<10000
Selenium	10	2	4.9	1.9	<10
Silicon	200	1.3	32		
Silver	10	.9	6.1	-0.30	<10
Sodium	10000	23	570	-17	<10000
Strontium	10	.4	2.7		
Sulfur	50	4.1	45		
Thallium	10	1.6	1.8	-0.50	<10
Tin	10	.9	3.7		
Titanium	10	.9	2.5		
Tungsten	50	2	40		
Vanadium	50	.8	1.8	0.0	<50

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47607
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 07/01/24

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.2	6.9	1.6	<20
Zirconium	10	.5	4.1		

Associated samples MP47607: JD91339-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47607
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 07/01/24

Metal	JD91365-5 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	239	24300	25000	96.2	75-125
Antimony	0.0	1860	2000	93.0	75-125
Arsenic	0.0	1870	2000	93.5	75-125
Barium	95.3	2120	2000	101.2	75-125
Beryllium	0.0	2070	2000	103.5	75-125
Bismuth					
Boron	anr				
Cadmium	0.0	1950	2000	97.5	75-125
Calcium	77700	97500	25000	79.2	75-125
Cerium					
Chromium	0.60	2010	2000	100.5	75-125
Cobalt	2.7	1930	2000	96.4	75-125
Copper	0.0	1990	2000	99.5	75-125
Iron	615	25700	25000	100.3	75-125
Lead	4.2	1980	2000	98.8	75-125
Lithium					
Magnesium	29600	55200	25000	102.4	75-125
Manganese	483	2460	2000	98.9	75-125
Molybdenum					
Nickel	13.6	1960	2000	97.3	75-125
Phosphorus					
Potassium	1280	25600	25000	97.3	75-125
Selenium	4.6	1910	2000	95.3	75-125
Silicon					
Silver	1.0	263	250	104.8	75-125
Sodium	4500	29700	25000	100.8	75-125
Strontium					
Sulfur					
Thallium	3.2	1810	2000	90.3	75-125
Tin					
Titanium					
Tungsten					
Vanadium	0.0	2020	2000	101.0	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47607
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 07/01/24

Metal	JD91365-5 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Zinc	3.6	1950	2000	97.3	75-125
Zirconium					

Associated samples MP47607: JD91339-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47607
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 07/01/24

Metal	JD91365-5 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	239	23600	25000	93.4	2.9	20
Antimony	0.0	1820	2000	91.0	2.2	20
Arsenic	0.0	1830	2000	91.5	2.2	20
Barium	95.3	2040	2000	97.2	3.8	20
Beryllium	0.0	1990	2000	99.5	3.9	20
Bismuth						
Boron	anr					
Cadmium	0.0	1900	2000	95.0	2.6	20
Calcium	77700	98100	25000	81.6	0.6	20
Cerium						
Chromium	0.60	1930	2000	96.5	4.1	20
Cobalt	2.7	1890	2000	94.4	2.1	20
Copper	0.0	1920	2000	96.0	3.6	20
Iron	615	24900	25000	97.1	3.2	20
Lead	4.2	1930	2000	96.3	2.6	20
Lithium						
Magnesium	29600	54000	25000	97.6	2.2	20
Manganese	483	2420	2000	96.9	1.6	20
Molybdenum						
Nickel	13.6	1920	2000	95.3	2.1	20
Phosphorus						
Potassium	1280	24800	25000	94.1	3.2	20
Selenium	4.6	1870	2000	93.3	2.1	20
Silicon						
Silver	1.0	253	250	100.8	3.9	20
Sodium	4500	28800	25000	97.2	3.1	20
Strontium						
Sulfur						
Thallium	3.2	1770	2000	88.3	2.2	20
Tin						
Titanium						
Tungsten						
Vanadium	0.0	1940	2000	97.0	4.0	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47607
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 07/01/24

Metal	JD91365-5 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zinc	3.6	1890	2000	94.3	3.1	20
Zirconium						

Associated samples MP47607: JD91339-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47607
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 07/01/24

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	23600	25000	94.4	80-120
Antimony	1870	2000	93.5	80-120
Arsenic	1870	2000	93.5	80-120
Barium	2020	2000	101.0	80-120
Beryllium	2050	2000	102.5	80-120
Bismuth				
Boron	anr			
Cadmium	1940	2000	97.0	80-120
Calcium	24300	25000	97.2	80-120
Cerium				
Chromium	2030	2000	101.5	80-120
Cobalt	1910	2000	95.5	80-120
Copper	1970	2000	98.5	80-120
Iron	25300	25000	101.2	80-120
Lead	1980	2000	99.0	80-120
Lithium				
Magnesium	24400	25000	97.6	80-120
Manganese	2000	2000	100.0	80-120
Molybdenum				
Nickel	1940	2000	97.0	80-120
Phosphorus				
Potassium	23800	25000	95.2	80-120
Selenium	1900	2000	95.0	80-120
Silicon				
Silver	260	250	104.0	80-120
Sodium	24800	25000	99.2	80-120
Strontium				
Sulfur				
Thallium	1830	2000	91.5	80-120
Tin				
Titanium				
Tungsten				
Vanadium	2020	2000	101.0	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47607
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 07/01/24

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zinc	1960	2000	98.0	80-120
Zirconium				

Associated samples MP47607: JD91339-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47607
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 07/01/24

Metal	JD91365-5 Original	SDL 1:5	%DIF	QC Limits
Aluminum	239	228	4.4	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	95.3	96.3	1.0	0-10
Beryllium	0.00	0.00	NC	0-10
Bismuth				
Boron	anr			
Cadmium	0.00	0.00	NC	0-10
Calcium	77700	78700	1.3	0-10
Cerium				
Chromium	0.600	0.00	100.0(a)	0-10
Cobalt	2.70	6.30	133.3(a)	0-10
Copper	0.00	0.00	NC	0-10
Iron	615	796	29.3 (a)	0-10
Lead	4.20	0.00	100.0(a)	0-10
Lithium				
Magnesium	29600	30200	2.1	0-10
Manganese	483	482	0.2	0-10
Molybdenum				
Nickel	13.6	13.2	2.9	0-10
Phosphorus				
Potassium	1280	1310	2.3	0-10
Selenium	4.60	0.00	100.0(a)	0-10
Silicon				
Silver	1.00	0.00	100.0(a)	0-10
Sodium	4500	4430	1.6	0-10
Strontium				
Sulfur				
Thallium	3.20	0.00	100.0(a)	0-10
Tin				
Titanium				
Tungsten				
Vanadium	0.00	0.00	NC	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47607
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 07/01/24

Metal	JD91365-5 Original	SDL 1:5	%DIF	QC Limits
Zinc	3.60	7.30	102.8(a)	0-10
Zirconium				

Associated samples MP47607: JD91339-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47621 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 07/01/24

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.04	.095	-0.020	<0.20

Associated samples MP47621: JD91339-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47621
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 07/01/24

Metal	JD91255-1 Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0	2.1	2	105.0	75-125

Associated samples MP47621: JD91339-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47621 Methods: SW846 7470A
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 07/01/24

Metal	JD91255-1 Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.0	1.8	2	90.0	15.4	20

Associated samples MP47621: JD91339-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47621
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 07/01/24

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	2.2	2	110.0	80-120

Associated samples MP47621: JD91339-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47629 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 07/01/24

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0022	.015	-0.0018	<0.033

Associated samples MP47629: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47629
Matrix Type: SOLID
Methods: SW846 7471B
Units: mg/kg

Prep Date: 07/01/24

Metal	JD91349-5 Original	MS	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.26	0.57	0.345	90.0	80-120

Associated samples MP47629: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47629 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 07/01/24

Metal	JD91349-5 Original	MSD	Spikelot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	0.26	0.53	0.345	78.3N(a)	7.3	20

Associated samples MP47629: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47629
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 07/01/24

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.34	0.333	102.0	80-120

Associated samples MP47629: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47629
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date: 07/01/24

Metal	Sample ml	Final ml	JD91349-5 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Mercury	49	50	1.5556	1.524488	3.4815	1	100	2000	96.3	85-115

Associated samples MP47629: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47630 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 07/01/24

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0022	.015	0.0024	<0.033

Associated samples MP47630: JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47630
Matrix Type: SOLID
Methods: SW846 7471B
Units: mg/kg

Prep Date: 07/01/24

Metal	JD91339-6 Original	MS	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.10	0.50	0.311	128.6N(a	80-120

Associated samples MP47630: JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47630 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 07/01/24

Metal	JD91339-6 Original	MSD	Spikelot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	0.10	0.55	0.364	123.5N(a	9.5	20

Associated samples MP47630: JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47630
Matrix Type: SOLID
Methods: SW846 7471B
Units: mg/kg

Prep Date: 07/01/24

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.34	0.333	102.0	80-120

Associated samples MP47630: JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47630
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date: 07/01/24

Metal	Sample ml	Final ml	JD91339-6 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Mercury	49	50	.6512	.638176	2.5552	1	100	2000	95.2	85-115

Associated samples MP47630: JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47655 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 07/02/24

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0022	.015	-0.0085	<0.033

Associated samples MP47655: JD91339-13, JD91339-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47655
Matrix Type: SOLID
Methods: SW846 7471B
Units: mg/kg

Prep Date: 07/02/24

Metal	JD91339-13 Original	MS	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.13	0.52	0.308	126.6N(a	80-120

Associated samples MP47655: JD91339-13, JD91339-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47655 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 07/02/24

Metal	JD91339-13 Original	MSD	Spikelot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	0.13	0.52	0.317	123.2N(a	0.0	20

Associated samples MP47655: JD91339-13, JD91339-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47655
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 07/02/24

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.32	0.333	96.0	80-120

Associated samples MP47655: JD91339-13, JD91339-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

QC Batch ID: MP47655
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date: 07/02/24

Metal	Sample ml	Final ml	JD91339-13 Raw	JD91339-13 Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Mercury	49	50	.7706	.755188	2.7239	1	100	2000	97.7	85-115

Associated samples MP47655: JD91339-13, JD91339-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC
- Percent Solids Raw Data Summary

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GN56812	0.010	0.0	mg/l	0.150	0.150	100.0	90-110%
Chromium, Hexavalent	GP55036/GN56864	0.40	0.0	mg/kg	843.069	769	91.2	80-120%
Chromium, Hexavalent	GP55036/GN56864			mg/kg	40	39.3	98.3	80-120%
Cyanide	GP55027/GN56729	0.24	0.0	mg/kg	4.8	5.23	109.0	90-110%
Cyanide	GP55079/GN56792	0.010	0.0	mg/l	0.2	0.219	109.5	90-110%
Cyanide	GP55080/GN56792	0.24	0.0	mg/kg	4.8	5.23	109.0	90-110%

Associated Samples:
Batch GN56812: JD91339-12
Batch GP55027: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11
Batch GP55036: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11, JD91339-13, JD91339-14
Batch GP55079: JD91339-12
Batch GP55080: JD91339-13, JD91339-14
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GN56812	JD91529-13	mg/l	0.0	0.0	0.0	0-20%
Chromium, Hexavalent	GP55036/GN56864	JD91339-7	mg/kg	0.0	0.0	0.0	0-20%
Cyanide	GP55027/GN56729	JD91351-13	mg/kg	0.29	0.17	52.2(a)	0-49%
Cyanide	GP55079/GN56792	LB3848-2	mg/l	0.0	0.0	0.0	0-32%
Cyanide	GP55080/GN56792	JD91339-13	mg/kg	0.15	0.19	23.5	0-49%
Redox Potential Vs H2	GN56781	JD91320-1	mv	138	140	1.4	0-20%
Solids, Percent	GN56692	JD91339-1	%	89.8	90.8	1.1	0-10%
Solids, Percent	GN56764	JD91341-1	%	95.6	95.2	0.4	0-10%
pH	GN56756	JD91204-18	su	6.84	7.60	10.5	0-10%
pH	GN56783	JD91320-1	su	10.37	10.46	0.9	0-10%

Associated Samples:
Batch GN56692: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11
Batch GN56756: JD91339-12
Batch GN56764: JD91339-13, JD91339-14
Batch GN56781: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11, JD91339-13, JD91339-14
Batch GN56783: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11, JD91339-13, JD91339-14
Batch GN56812: JD91339-12
Batch GP55027: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11
Batch GP55036: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11, JD91339-13, JD91339-14
Batch GP55079: JD91339-12
Batch GP55080: JD91339-13, JD91339-14
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GN56812	JD91529-13	mg/l	0.0	0.150	0.15	100.0	85-115%
Chromium, Hexavalent	GP55036/GN56864	JD91339-7	mg/kg	0.0	922	842	91.3(a)	75-125%
Chromium, Hexavalent	GP55036/GN56864	JD91339-7	mg/kg	0.0	42.8	23.9	55.8N(b)	75-125%
Cyanide	GP55027/GN56729	JD91351-13	mg/kg	0.29	5.31	6.6	118.8	75-125%
Cyanide	GP55079/GN56792	LB3848-2	mg/l	0.0	0.2	0.23	115.0N(c)	90-110%
Cyanide	GP55080/GN56792	JD91339-13	mg/kg	0.15	5.04	5.4	104.2	75-125%

Associated Samples:
Batch GN56812: JD91339-12
Batch GP55027: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11
Batch GP55036: JD91339-1, JD91339-2, JD91339-3, JD91339-4, JD91339-5, JD91339-6, JD91339-7, JD91339-8, JD91339-9, JD91339-10, JD91339-11, JD91339-13, JD91339-14
Batch GP55079: JD91339-12
Batch GP55080: JD91339-13, JD91339-14
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.
(b) Soluble XCR matrix spike recovery indicates possible matrix interference. Good post spike recovery (106_%) on this sample.
(c) Spike recovery indicates possible matrix interference.

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: D070124W1.CN Date Analyzed: 07/01/24 Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT
Analyst: JD Run ID: GN56729
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:08	GN56729-STD1	1		STDA
20:09	GN56729-STD2	1		STDB
20:10	GN56729-STD3	1		STDC
20:12	GN56729-STD4	1		STDE
20:13	GN56729-STD5	1		STDF
20:13	GN56729-STD6	1		STDG
20:14	GN56729-STD7	1		STDD
20:15	GN56729-ICV1	1		
20:16	GN56729-ICB1	1		
20:17	ZZZZZZ	1		
20:18	GN56729-CCV1	1		
20:19	GN56729-CCB1	1		
20:20	GP55025-MB1	1		
20:22	GP55025-S1	1		
20:23	GP55025-D1	1		
20:24	LB3795-1	1		(sample used for QC only; not part of login JD91339)
20:24	ZZZZZZ	1		
20:25	ZZZZZZ	1		
20:26	GP55025-B1	1		
20:27	GP55028-MB1	1		
20:28	GP55028-B1	1		
20:29	GN56729-CCV2	1		
20:30	GN56729-CCB2	1		
20:31	GP55028-S1	1		
20:32	GP55028-S2	1		
20:33	GP55028-D1	1		
20:34	JD91298-1	1		(sample used for QC only; not part of login JD91339)
20:35	ZZZZZZ	1		
20:36	ZZZZZZ	1		
20:36	ZZZZZZ	1		
20:37	ZZZZZZ	1		
20:38	JD91300-5	1		(sample used for QC only; not part of login JD91339)
20:39	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: D070124W1.CN Date Analyzed: 07/01/24 Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT
Analyst: JD Run ID: GN56729
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
20:40	GN56729-CCV3	1		
20:41	GN56729-CCB3	1		
20:42	ZZZZZZ	1		
20:43	ZZZZZZ	1		
20:44	ZZZZZZ	1		
20:45	ZZZZZZ	1		
20:46	ZZZZZZ	1		
20:47	ZZZZZZ	1		
20:47	ZZZZZZ	1		
20:48	ZZZZZZ	1		
20:49	ZZZZZZ	1		
20:50	ZZZZZZ	1		
20:51	GN56729-CCV4	1		
20:52	GN56729-CCB4	1		
20:53	ZZZZZZ	1		
20:54	ZZZZZZ	1		
20:55	ZZZZZZ	1		
20:56	GP55027-MB1	1		
20:57	GP55027-B1	1		
20:58	GP55027-S1	1		
20:58	GP55027-S2	1		
20:59	GP55027-D1	1		
21:00	JD91351-13	1		(sample used for QC only; not part of login JD91339)
21:01	ZZZZZZ	1		
21:02	GN56729-CCV5	1		
21:03	GN56729-CCB5	1		
21:04	JD91320-1	1		(sample used for QC only; not part of login JD91339)
21:05	ZZZZZZ	1		
21:06	JD91339-1	1		
21:07	JD91339-2	1		
21:08	JD91339-3	1		
21:09	JD91339-4	1		
21:10	JD91339-5	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: D070124W1.CN Date Analyzed: 07/01/24 Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT
Analyst: JD Run ID: GN56729
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:10	JD91339-6	1		
21:11	JD91339-7	1		
21:12	JD91339-8	1		
21:13	GN56729-CCV6	1		
21:14	GN56729-CCB6	1		
21:15	JD91339-9	1		
21:16	JD91339-10	1		
21:17	JD91339-11	1		
21:24	GN56729-CCV7	1		
21:25	GN56729-CCB7	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: D070124W1.CN Date Analyzed: 07/01/24 Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT
Run ID: GN56729 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN56729-ICV1	Cyanide	0.303	0.010	0.0041	.3	101.0	90-110
GN56729-ICB1	Cyanide	-0.0136 <	0.010	0.0041			
GN56729-CCV1	Cyanide	0.369	0.010	0.0041	.4	92.3	90-110
GN56729-CCB1	Cyanide	-0.0141 <	0.010	0.0041			
GN56729-CCV2	Cyanide	0.369	0.010	0.0041	.4	92.3	90-110
GN56729-CCB2	Cyanide	-0.0113 <	0.010	0.0041			
GN56729-CCV3	Cyanide	0.371	0.010	0.0041	.4	92.8	90-110
GN56729-CCB3	Cyanide	-0.0127 <	0.010	0.0041			
GN56729-CCV4	Cyanide	0.370	0.010	0.0041	.4	92.5	90-110
GN56729-CCB4	Cyanide	-0.0147 <	0.010	0.0041			
GN56729-CCV5	Cyanide	0.369	0.010	0.0041	.4	92.3	90-110
GN56729-CCB5	Cyanide	-0.0138 <	0.010	0.0041			
GN56729-CCV6	Cyanide	0.368	0.010	0.0041	.4	92.0	90-110
GN56729-CCB6	Cyanide	-0.0125 <	0.010	0.0041			
GN56729-CCV7	Cyanide	0.369	0.010	0.0041	.4	92.3	90-110
GN56729-CCB7	Cyanide	-0.0121 <	0.010	0.0041			

(!) Outside of QC limits

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: D070224W1.CN Date Analyzed: 07/02/24 Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT
Analyst: JD Run ID: GN56792
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:13	GN56792-STD1	1		STDA
18:14	GN56792-STD2	1		STDB
18:15	GN56792-STD3	1		STDC
18:16	GN56792-STD4	1		STDD
18:17	GN56792-STD5	1		STDE
18:17	GN56792-STD6	1		STDF
18:18	GN56792-STD7	1		STDG
18:19	GN56792-ICV1	1		
18:20	GN56792-ICB1	1		
18:21	ZZZZZZ	1		
18:22	GN56792-CCV1	1		
18:23	GN56792-CCB1	1		
18:24	GP55079-MB1	1		
18:25	GP55079-B1	1		
18:26	GP55079-S1	1		
18:27	GP55079-D1	1		
18:27	JD91339-12	1		
18:28	ZZZZZZ	1		
18:29	ZZZZZZ	1		
18:30	LB3848-2	1		(sample used for QC only; not part of login JD91339)
18:31	ZZZZZZ	1		
18:32	ZZZZZZ	1		
18:33	GN56792-CCV2	1		
18:34	GN56792-CCB2	1		
18:35	ZZZZZZ	1		
18:36	GP55080-MB1	1		
18:37	GP55080-B1	1		
18:37	GP55080-S1	1		
18:38	GP55080-D1	1		
18:39	JD91339-13	1		
18:40	JD91339-14	1		
18:41	ZZZZZZ	1		
18:42	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: D070224W1.CN Date Analyzed: 07/02/24 Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT
Analyst: JD Run ID: GN56792
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:43	ZZZZZZ	1		
18:44	GN56792-CCV3	1		
18:45	GN56792-CCB3	1		
18:46	ZZZZZZ	1		
18:46	ZZZZZZ	1		
18:55	GN56792-CCV4	1		
18:56	GN56792-CCB4	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: JD91339
Account: MTXFPNJ - Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

File ID: D070224W1.CN Date Analyzed: 07/02/24 Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT
Run ID: GN56792 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN56792-ICV1	Cyanide	0.298	0.010	0.0041	.3	99.3	90-110
GN56792-ICB1	Cyanide	-0.0163 <	0.010	0.0041			
GN56792-CCV1	Cyanide	0.391	0.010	0.0041	.4	97.8	90-110
GN56792-CCB1	Cyanide	-0.0159 <	0.010	0.0041			
GN56792-CCV2	Cyanide	0.388	0.010	0.0041	.4	97.0	90-110
GN56792-CCB2	Cyanide	-0.0164 <	0.010	0.0041			
GN56792-CCV3	Cyanide	0.388	0.010	0.0041	.4	97.0	90-110
GN56792-CCB3	Cyanide	-0.0130 <	0.010	0.0041			
GN56792-CCV4	Cyanide	0.389	0.010	0.0041	.4	97.3	90-110
GN56792-CCB4	Cyanide	-0.0173 <	0.010	0.0041			

(!) Outside of QC limits

Percent Solids Raw Data Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: JD91339-1 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-3

Wet Weight (Total)	32.53	g
Tare Weight	26.75	g
Dry Weight (Total)	31.94	g
Solids, Percent	89.8	%

Sample: JD91339-2 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-4

Wet Weight (Total)	24.43	g
Tare Weight	18.81	g
Dry Weight (Total)	24.06	g
Solids, Percent	93.4	%

Sample: JD91339-3 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-20

Wet Weight (Total)	29.34	g
Tare Weight	23.46	g
Dry Weight (Total)	28.77	g
Solids, Percent	90.3	%

Sample: JD91339-4 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-11

Wet Weight (Total)	31.21	g
Tare Weight	24.58	g
Dry Weight (Total)	30.95	g
Solids, Percent	96.1	%

Sample: JD91339-5 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-10A

Wet Weight (Total)	26.45	g
Tare Weight	20.53	g
Dry Weight (Total)	25.49	g
Solids, Percent	83.8	%

Sample: JD91339-6 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-21

Wet Weight (Total)	27.3	g
Tare Weight	20.58	g
Dry Weight (Total)	26.71	g
Solids, Percent	91.2	%

Percent Solids Raw Data Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: JD91339-7 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-9

Wet Weight (Total)	34.79	g
Tare Weight	27.95	g
Dry Weight (Total)	34.42	g
Solids, Percent	94.6	%

Sample: JD91339-8 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-8A

Wet Weight (Total)	26.63	g
Tare Weight	21.38	g
Dry Weight (Total)	25.35	g
Solids, Percent	75.6	%

Sample: JD91339-9 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-5

Wet Weight (Total)	26.46	g
Tare Weight	21.2	g
Dry Weight (Total)	26.17	g
Solids, Percent	94.5	%

Sample: JD91339-10 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-6

Wet Weight (Total)	27.05	g
Tare Weight	20.92	g
Dry Weight (Total)	26.49	g
Solids, Percent	90.9	%

Sample: JD91339-11 **Analyzed:** 29-JUN-24 by MK **Method:** SM2540 G 18TH ED MOD
ClientID: GRID-7

Wet Weight (Total)	29.53	g
Tare Weight	23.12	g
Dry Weight (Total)	29.17	g
Solids, Percent	94.4	%

Sample: JD91339-13 **Analyzed:** 02-JUL-24 by RI **Method:** SM2540 G 18TH ED MOD
ClientID: DUP-1

Wet Weight (Total)	33.26	g
Tare Weight	27.41	g
Dry Weight (Total)	32.77	g
Solids, Percent	91.6	%

Percent Solids Raw Data Summary

Job Number: JD91339
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: Ridgewood Berm Sampling, Ridgewood, NJ

Sample: JD91339-14 **Analyzed:** 02-JUL-24 by RI **Method:** SM2540 G 18TH ED MOD
ClientID: DUP-2

Wet Weight (Total)	36.08	g
Tare Weight	27.97	g
Dry Weight (Total)	35.68	g
Solids, Percent	95.1	%

APPENDIX G

Nankoweep Data Validation Report

RIDGEWOOD SOIL GRID SAMPLING

VALIDATION OF LABORATORY RESULTS
SGS LABORATORY (DAYTON, NJ)

LABORATORY REPORT # JD91204 DATED JULY 31, 2024

INTRODUCTION

Matrix New World Engineering (Matrix) collected 17 soil samples and two aqueous field blanks on June 26, 2024. Samples were relinquished to an SGS Laboratory courier, and then transported to SGS Laboratory, located in Dayton, New Jersey on the day of sampling. Sample identifications and requested analyses are listed below.

Matrix Sample IDs	Laboratory Sample IDs	Analyses Requested and Methods
GRID-26	JD91204-1	TCL SVOCs – EPA Method 8270E TAL Metals – EPA Method 6010D and 7471B (Mercury) TCL Pesticides – EPA Method 8081B PCBs (Aroclors) – EPA Method 8082A Hexavalent Chromium – EPA Method 7196A Cyanide – EPA Method 9012B pH – EPA method 9045D
GRID-27	JD91204-2	
GRID-25	JD91204-3	
GRID-16	JD91204-4	
GRID-28	JD91204-5	
GRID-24A	JD91204-6	
GRID-17	JD91204-7	
GRID-14A	JD91204-8	
GRID-15	JD91204-9	
GRID-2	JD91204-10	
GRID-19	JD91204-11	
GRID-13	JD91204-12	
GRID-1	JD91204-13	
GRID-18	JD91204-14	
GRID-12A	JD91204-15	
GRID-22A	JD91204-16	
GRID-23	JD91204-17	
FB-1	JD91204-18	Aqueous Field Blank
FB-2	JD91204-19	Aqueous Field Blank

TAL = Target Analyte List TCL = Target Compound List
SVOC = Semi-Volatile Organic Compounds
PCBs = Polychlorinated Biphenyls

Samples were received under proper chain of custody in two coolers and were properly chilled at temperatures of 2.6 and 3.0 degrees Celsius. Quality Control for the soil samples is evaluated in the following checklist tables and comments. A summary of data quality for the samples analyzed is provided at the end of this validation report.

VALIDATION CHECKLIST SUMMARY
RIDGEWOOD SOIL GRID SAMPLING
SVOCs BY METHOD 8270E

REQUIREMENTS	REPORTED NO	REPORTED YES	PERFORMANCE ACCEPTABLE NO	PERFORMANCE ACCEPTABLE YES	DATA QUALIFIED - COMMENTS
GAS CHROMATOGRAPHY/ MASS SPECTROMETRY (GC/MS)					
1. Holding times		X		X	
2. Detection limits		X		X	Yes, see notes
3. Blanks					
A. Laboratory Method Blanks		X		X	
B. Field Blanks		X		X	
4. Laboratory Control Sample (LCS) %R		X		X	
5. LCS Duplicate %R and (RPD)		X		X	Aqueous only
6. Matrix Spike (MS) %R		X	X		No
7. MS Duplicate (MSD) %R and (RPD)		X	X		No
8. Surrogate Recoveries (%R)		X	X		Yes, See notes
9. Field Duplicate Comparison	X			X	
10. Results Quantitation		X		X	Yes, See notes

%R - percent recovery RPD - relative percent difference CCV – continuing calibration verification

COMMENTS: Performance was acceptable, with the following exceptions and/or notes.

1) The soil samples were extracted on June 30, 2024 within the required 14-day holding time. SVOC analyses were performed by July 2, 2024 within the 40 day holding time after extraction. Extraction and analysis holding times were met.

2) Sample GRID-18 was diluted by a factor five times to quantify fluoranthene and pyrene. No other sample dilutions were required for analysis of SVOCs. Several SVOCs were detected in soil samples at concentrations between the method detection limit (MDL) and the reporting limit. **Due to limited accuracy in this portion of the calibration range these SVOCs results are qualified as J/Estimated, as noted in the following pages:**

Sample ID	**Qualified SVOCs (ug/kg)**
GRID-26	1,1'-Biphenyl = 9.5 *J*
GRID-26	Carbazole = 41.2 *J*
GRID-26	Dibenzofuran = 27.1 *J*
GRID-26	Di-n-butyl phthalate= 5.5 *J*
GRID-26	2-Methylnaphthalene= 33.8 *J*
GRID-25	Benzaldehyde = 10.6 *J*
GRID-25	Carbazole = 7.6 *J*
GRID-25	Dibenzo(a,h)anthracene = 20.2 *J*
GRID-25	bis(2-Ethylhexyl)phthalate= 12.67 *J*

Sample ID	Qualified SVOCs (ug/kg)
GRID-16	Butyl benzyl phthalate = 12.2 *J*
GRID-16	1,1'-Biphenyl = 6.9 *J*
GRID-16	Benzaldehyde = 28.5 *J*
GRID-16	Carbazole = 65.1 *J*
GRID-16	Dibenzofuran = 17.6 *J*
GRID-16	bis(2-Ethylhexyl)phthalate = 40.1 *J*
GRID-16	2-Methylnaphthalene = 10.1 *J*
GRID-16	Naphthalene = 18.2 *J*
GRID-28	1,1'-Biphenyl = 7.0 *J*
GRID-28	Carbazole = 50.1 *J*
GRID-28	Dibenzofuran = 27.2 *J*
GRID-28	bis(2-Ethylhexyl)phthalate = 18.6 *J*
GRID-28	2-Methylnaphthalene = 18.7 *J*
GRID-28	Naphthalene = 30.6 *J*
GRID-24A	Acenaphthene = 13.1 *J*
GRID-24A	Acenaphthylene = 26.4 *J*
GRID-24A	Butyl benzyl phthalate = 16.8 *J*
GRID-24A	1,1'-Biphenyl = 5.4 *J*
GRID-24A	Carbazole = 32.4 *J*
GRID-24A	Dibenzo(a,h)anthracene = 26.8 *J*
GRID-24A	bis(2-Ethylhexyl)phthalate = 15.0 *J*
GRID-24A	2-Methylnaphthalene = 9.6 *J*
GRID-24A	Naphthalene = 19.5 *J*
GRID-17	Acenaphthene = 12.7 *J*
GRID-17	Carbazole = 10.9 *J*
GRID-17	bis(2-Ethylhexyl)phthalate = 9.2 *J*
GRID-15	Acetophenone = 10.8 *J*
GRID-15	1,1'-Biphenyl = 12.8 *J*
GRID-15	Benzaldehyde = 29.92 *J*
GRID-15	Carbazole = 52.9 *J*
GRID-15	Dibenzofuran = 25.3 J
GRID-15	Di-n-butyl phthalate = 9.6 *J*
GRID-15	bis(2-Ethylhexyl)phthalate = 33.8 *J*
GRID-15	2-Methylnaphthalene = 31.2 *J*
GRID-2	Acetophenone = 8.8 *J*
GRID-2	Butyl benzyl phthalate = 15.8 *J*
GRID-2	1,1'-Biphenyl = 8.2 *J*
GRID-2	Benzaldehyde = 25.4 *J*
GRID-2	Dibenzofuran = 20.9 J

Sample ID	Qualified SVOCs (ug/kg)
GRID-2	Di-n-butyl phthalate = 12.9 *J*
GRID-2	bis(2-Ethylhexyl)phthalate = 65.9 *J*
GRID-2	2-Methylnaphthalene = 25.5 *J*
GRID-19	Acenaphthene = 26.5 *J*
GRID-19	Carbazole = 21.4 *J*
GRID-19	Fluorene = 27.0 *J*
GRID-13	Acenaphthene = 24.5 *J*
GRID-13	Anthracene = 33.3 *J*
GRID-13	Carbazole = 10.8 *J*
GRID-13	Dibenzo(a,h)anthracene = 31.0 *J*
GRID-13	bis(2-Ethylhexyl)phthalate = 13.6 *J*
GRID-1	Benzo(k)fluoranthene = 29.8 *J*
GRID-1	Benzaldehyde = 14.5 *J*
GRID-1	Carbazole = 9.0 *J*
GRID-1	Di-n-butyl phthalate = 6.6 *J*
GRID-1	bis(2-Ethylhexyl)phthalate = 25.2 *J*
GRID-18	Acetophenone = 9.3 *J*
GRID-18	Butyl benzyl phthalate = 27.9 *J*
GRID-18	1,1'-Biphenyl = 42.2 *J*
GRID-18	Benzaldehyde = 22.6 *J*
GRID-18	Di-n-butyl phthalate = 12.9 *J*
GRID-18	bis(2-Ethylhexyl)phthalate = 45.0 *J*
GRID-22A	Acenaphthene = 22.7 *J*
GRID-22A	Carbazole = 14.3 *J*
GRID-22A	bis(2-Ethylhexyl)phthalate = 12.1 *J*
GRID-22A	Fluorene= 26.4 *J*

3) SGS provided results from one full suite solid matrix method blank in support of the SVOC analyses. No SVOCs were detected in the method blank. Results from an aqueous method blank were also provided with no SVOCs detected

Results from two aqueous field blanks were provided. No SVOCs were detected in the field blanks.

4-5) SGS provided results from one full set of solid matrix laboratory control sample (LCS) analyses (identified as blank spike analyses) in support of the SVOC analyses. All LCS recoveries were within laboratory specified control limits, ranging from 24 to 101 percent. Accuracy, as demonstrated by these analyses is acceptable.

One set of aqueous LCS and LCS duplicate analyses were provided in support of the field blanks. Precision and accuracy, as demonstrated by these analyses is acceptable.

6-7) SGS provided results from one set of project specific (spike on sample GRID-26) matrix spike (MS) and MSD duplicate analyses in support of the SVOC analyses. MS and MSD recoveries ranged from 0 to 135 percent (various control limits). The maximum RPD between MS and MSD results was 40 percent. Precision and accuracy, as demonstrated by these analyses is acceptable, with the following exceptions where MS and MSD results were low.

SVOC	**Low MS / MSD % recoveries**
2,4-Dinitrophenol	0 / 0
4,6-Dinitro-o-cresol	5 / 5
Hexachlorocyclopentadiene	4 / 4

No action is taken based solely on the low MS and MSD recoveries in the project spikes unless additional quality control issues for these SVOCs are noted.

8) Six surrogates were spiked into each soil sample in support of the SVOC analyses. Surrogate recoveries were acceptable, ranging from 17 to 78 percent (various control limits with low limits of 10-11 percent). Accuracy, as demonstrated by these analyses is acceptable.

9) Field duplicate samples were not submitted with the samples under this chain of custody in support of the SVOC analyses.

10) No anomalies were noted with respect to results SVOC quantitation or reporting. SGS noted that CCV recoveries were high for some SVOCs that were not detected in the associated samples. No bias to the sample results is indicated by the high CCVs. SGS noted that CCV recoveries were low for some SVOCs that were not detected in the associated samples. These SVOCs included the following:

4-Nitrophenol Pentachlorophenol Hexachlorocyclopentadiene

SGS stated that a low level standard was analyzed to show that these SVOCs could be detected at reporting limits. Results for these standards were not provided.

Numerous Tentatively Identified Compounds (TICs) were reported with each sample analyzed for SVOCs. **Results for TICs are considered to be estimated in magnitude. In some cases, the identification of the TIC was verified against the library of SVOCs compounds associated with the method.**

VALIDATION CHECKLIST SUMMARY
RIDGEWOOD SOIL GRID SAMPLING

PESTICIDES BY METHOD 8081B

REQUIREMENTS	REPORTED NO	REPORTED YES	PERFORMANCE ACCEPTABLE NO	PERFORMANCE ACCEPTABLE YES	DATA QUALIFIED - COMMENTS
GAS CHROMATOGRAPHY					
1. Holding times		X		X	
2. Detection limits		X		X	Yes, see notes
3. Blanks					
A. Laboratory Method Blanks		X		X	
B. Field/Equipment Blanks		X		X	
4. Laboratory Control Sample (LCS) %R		X		X	
5. LCS Duplicate %R and (RPD)		X	X		No, aqueous only
6. Matrix Spike (MS) %R		X	X		See notes
7. MS Duplicate (MSD) %R and (RPD)		X	X		See notes
8. Surrogate Recoveries (%R)		X	X		Yes, See notes
9. DDT/Endrin Breakdown Check		X		X	
10. Field Duplicate Comparison		X		X	
11. Results Quantitation		X		X	Yes, See notes

%R - percent recovery RPD - relative percent difference CCV – continuing calibration verification

COMMENTS: Performance was acceptable, with the following exceptions and/or notes.

1) The soil samples for analysis of pesticides were extracted on June 29, 2024 within the required 14-day holding time. Pesticide analyses were performed by July 2, 2024 within the 40-day holding time after extraction.

2) Some samples were analyzed at dilutions to quantify specific pesticides as follows:

Sample ID	**Pesticide Dilutions**
GRID-28	10 times for 4,4-DDT and 4,4-DDE
GRID-17	10 times for gamma-Chlordane and Chlordane
GRID-2	20 times for 4,4-DDT and 4,4-DDE

No other samples were analyzed at dilutions to quantify pesticides. Several pesticides were detected in soil samples at concentrations between the method detection limit (MDL) and the reporting limit. **Due to limited accuracy in this portion of the calibration range these pesticide results are qualified as J/Estimated, as follows:**

Sample ID	Qualified Pesticides (ug/kg)
GRID-26	alpha-BHC= 0.16 *J*
GRID-26	delta-BHC= 0.19 *J*
GRID-26	Lindane = 0.12 *J*
GRID-26	Dieldrin = 0.28 *J*
GRID-27	4,4-DDE = 0.22 *J*
GRID-27	4,4-DDT = 0.088 *J*
GRID-25	Heptachlor epoxide = 0.25 ***J***
GRID-16	alpha-BHC = 0.14 ***J***
GRID-28	alpha-BHC = 0.12 ***J***
GRID-24A	Dieldrin = 0.13 *J*
GRID-24A	4,4-DDD = 0.072 *J*
GRID-24A	4,4-DDE = 0.15 *J*
GRID-24A	Heptachlor epoxide = 0.24 *J*
GRID-17	Heptachlor = 0.39 *J*
GRID-14A	4,4-DDE = 0.081 *J*
GRID-14A	4,4-DDT = 0.15 *J*
GRID-15	Lindane = 0.22 *J*
GRID-13	4,4-DDD = 0.37 *J*
GRID-1	alpha-Chlordane = 0.15 *J*
GRID-1	gamma-Chlordane = 0.091 *J*
GRID-1	Chlordane = 0.25 *J*
GRID-1	Dieldrin = 0.17 *J*
GRID-1	4,4'-DDD= 0.24 *J*
GRID-1	Heptachlor epoxide = 0.14 *J*
GRID-18	Lindane = 0.076 *J*
GRID-22A	Dieldrin = 0.14 *J*
GRID-22A	Heptachlor epoxide = 0.22 *J*

3) SGS provided results from one full suite solid matrix method blank in support of the pesticide analyses. One aqueous method blank was also provided. No pesticides were detected in the method blanks:

Two aqueous field blanks was analyzed with the soil samples. No pesticides were detected in the field blanks.

4-5) SGS provided results from one full set of solid matrix laboratory control sample (LCS) analyses (identified as blank spike analyses) in support of the pesticide analyses. All LCS recoveries were within laboratory specified control limits, ranging from 74 to 94 percent. Accuracy, as demonstrated by these analyses is acceptable. Some spike recoveries were reported from the 1st analytical signal, as drift for the CCV for the secondary signal exceeded 20 percent..

LCS and LCS duplicate results were provided in support of the aqueous analyses (field blank) with acceptable accuracy. Precision between LCS and LCSD analyses in support of the field blank analyses was poor for several pesticides with RPDs up to 6 percent above control limits. This does not impact the soil sample results.

6-7) SGS provided results from one set of project specific matrix spike (MS) and MS duplicate analyses in support of the pesticide analyses (spike on project sample GRID-26). MS and MSD recoveries ranged from -38 to 126 percent. The maximum RPD between MS and MSD result was 100 percent for Lindane. MS recoveries were low for several pesticides including the following:

Alpha-BHC delta-BHC Lindane 4,4-DDD 4,4-DDT
Endrin Aldehyde

MSD recoveries were acceptable and generally higher than the MS recoveries, resulting in poor precision. This may indicate significant sample heterogeneity in the sample spiked or a problem with the MS spike. In any case, matrix issues may be indicated, and the pesticide data for the above listed compounds may biased.

8) Two surrogates (tetrachloro-m-xylene (TCMX) and decachlorobiphenyl (DCBP)) were spiked into each soil sample in support of the solid matrix pesticide analyses. Surrogates were reported from each of the two columns used in the analyses, and from each dilution run as applicable. Surrogate recoveries ranged from 23 to 817 percent and were out of control for several samples for one or both surrogates, and for one or both dilution runs, as applicable. Recoveries for the DCBP surrogate were high (upper control limit of 154 percent) from one or both GC columns (**bolded** results) in numerous samples, as listed below. Some TCMX surrogate recoveries were also low as noted (lower control limit of 46 percent).

Sample ID	High DCBP rec % (low TCMX as noted)
GRID-26	66 / **443**
GRID-27	All in control
GRID-25	All in control
GRID-16	113 / **519**
GRID-28	76 **/ 193 / 421 / 817** (also TCMX low by 1%)
GRID-24B	**23** / 69 (TCMX low)

Sample ID	High DCBP rec % (low TCMX as noted)
GRID-17	**178** / 92 (also TCMX low by 3%)
GRID-14A	All in control
GRID-15	**207** / **805**
GRID-2	**602 / 236**
GRID-19	**378** / **189** (also TCMX low by 7%)
GRID-13	126 / **254**
GRID-1	All in control
GRID-18	49 / **420** (also TCMX low by 3%)
GRID-12A	All in control
GRID-22A	112 / **275** (also TCMX low by 5%)
GRID-12A	All in control

The evaluation of these surrogates is very complex, as different pesticides may be quantified from the two columns (signals). In cases with dilutions and high surrogates, there are multiple combinations of sample results for each pesticide, depending on the signal used. In cases with high DCBP and low TCMX surrogates, the situation is even more complex. The sample results must be reviewed in combination with the results footnotes and the "GC Identification Summaries" table provided in Section 8.7 of the SGS report to determine if each individual pesticide detection is associated with any bias.

There were no pesticide detections that exceeded project remediation standards, even though a high bias and possible matrix interference is indicated for the majority of the detections. The majority of detections are already qualified based on the reporting limit discussion in comment #2 of this validation, or due to poor dual column confirmation precision discussion below, in comment #11. Therefore, no further evaluation of the surrogates is provided here, unless a sample specific pesticide evaluation is requested.

9) Several sets of DDT/Endrin breakdown check standards were analyzed coinciding with each analytical batch. DDT and Endrin breakdown levels were all less than the QAPP specific level of 15 percent.

10) Field duplicate samples were not submitted with the samples under this chain of custody.

11) No anomalies were noted with respect to results pesticide quantitation or reporting, with the following exceptions. Numerous pesticides were flagged by SGS due to an RPD of more than 40% between the dual GC columns used for quantitation and confirmation. In many cases, the pesticides in question were already qualified as J/Estimated due to reporting limits and no further action is required. Many of these sample results would also be qualified in a detailed investigation of the surrogate recoveries. The following samples were not previously qualified and are qualified due to poor precision between pesticide detections on the dual columns.

Sample ID	Qualified pesticides (ug/Kg)
GRID-26	alpha-Chlordane = 1.6 *J*
GRID-26	gamma-Chlordane = 1.4 *J*
GRID-26	Chlordane = 3.1 *J*
GRID-26	4,4-DDE = 0.99 *J*
GRID-25	alpha-Chlordane = 0.79 *J*
GRID-25	gamma-Chlordane = 0.78 *J*
GRID-16	alpha-Chlordane = 10.5 *J*
GRID-16	gamma-Chlordane = 5.5 *J*
GRID-16	Dieldrin = 1.3 *J*
GRID-16	4,4-DDE = 4.7 *J*
GRID-16	Heptachlor epoxide = 4.9 *J*
GRID-28	alpha Chlordane = 0.16 *J*
GRID-28	gamma Chlordane = 1.1 *J*
GRID-28	Dieldrin = 0.53 *J*
GRID-28	4,4-DDE = 35.8 *J*
GRID-24A	gamma Chlordane = 1.0 *J*
GRID-24A	4,4-DDT = 0.45 *J*
GRID-24A	Heptachlor = 0.43 *J*
GRID-17	alpha-Chlordane = 14.3 *J*
GRID-17	gamma-Chlordane = 36.3 *J*
GRID-17	4,4-DDE = 0.55 *J*
GRID-17	Heptachlor epoxide = 0.54 *J*
GRID-15	alpha-Chlordane = 1.5 *J*
GRID-15	gamma-Chlordane = 0.86 *J*
GRID-15	4,4-DDE = 10.1 *J*
GRID-2	alpha-Chlordane = 1.8 *J*
GRID-2	Dieldrin = 1.1 *J*
GRID-2	Heptachlor epoxide = 1.3 *J*
GRID-19	alpha-Chlordane = 5.2 *J*
GRID-19	gamma-Chlordane = 2.6 *J*
GRID-19	Heptachlor epoxide = 0.6 *J*
GRID-13	alpha-Chlordane = 1.6 *J*
GRID-13	gamma-Chlordane = 0.59 *J*
GRID-13	4,4-DDE = 0.97 *J*
GRID-13	Heptachlor epoxide = 0.50 *J*

Sample ID	Qualified pesticides (ug/Kg)
GRID-1	4,4-DDE = 0.67*J*
GRID-18	alpha-Chlordane = 2.7 *J*
GRID-18	Dieldrin = 2.3 *J*
GRID-18	4,4-DDE = 1.8 *J*
GRID-18	Endrin aldehyde = 1.9 *J*
GRID-18	Heptachlor epoxide = 2.1 *J*
GRID-22A	alpha-Chlordane = 0.89 *J*
GRID-22A	gamma-Chlordane = 1.2 *J*
GRID-22A	4,4-DDE = 1.1 *J*
GRID-22A	Heptachlor epoxide = 0.22 *J*

VALIDATION CHECKLIST SUMMARY
RIDGEWOOD SOIL GRID SAMPLING

AROCLORS (PCBs) BY METHOD 8082A

REQUIREMENTS	REPORTED NO	REPORTED YES	PERFORMANCE ACCEPTABLE NO	PERFORMANCE ACCEPTABLE YES	DATA QUALIFIED - COMMENTS
GAS CHROMATOGRAPHY					
1. Holding times		X		X	
2. Detection limits		X		X	Yes, see notes
3. Blanks					
A. Laboratory Method Blanks		X		X	
B. Field/Equipment Blanks		X		X	
4. Laboratory Control Sample (LCS) %R		X		X	
5. LCS Duplicate %R and (RPD)		X		X	Aqueous only
6. Matrix Spike (MS) %R		X		X	
7. MS Duplicate (MSD) %R and (RPD)		X		X	
8. Surrogate Recoveries (%R)		X	X		Yes
9. Field Duplicate Comparison	X			X	
10. Results Quantitation		X	X		Yes, see notes

%R - percent recovery RPD - relative percent difference CCV – continuing calibration verification

COMMENTS: Performance was acceptable, with the following exceptions and/or notes.

1) The soil samples for analysis of Aroclors were extracted on June 29, 2024 within the required 14-day holding time. Aroclor analyses were performed by July 1, 2024, within the 40 day holding time after extraction. Extraction and analysis holding times were met.

2) No soil samples were analyzed at dilutions to quantitate any Aroclors. Several Aroclor detections were reported at concentrations between the MDL and RL. **Due to limited accuracy in this portion of the calibration range these Aroclor results are qualified as J/Estimated, as follows:**

Sample ID	**Qualified Aroclors (ug/kg)**
GRID-26	Aroclor 1260 = 8.6 *J*
GRID-16	Aroclor 1262 = 15.0 *J*
GRID-24A	Aroclor 1262 = 6.1 *J*
GRID-15	Aroclor 1262 = 14.9 *J*
GRID19	Aroclor 1262 = 11.7 *J*
GRID-13	Aroclor 1262 = 6.6 *J*
GRID-1	Aroclor 1254 = 3.9 *J*
GRID-22A	Aroclor 1254 = 7.2 *J*
GRID-22A	Aroclor 1262 = 3.1 *J*

No other Aroclors were reported at concentrations between the MDL and RL. Aroclor reporting limits are determined to be acceptable.

3) SGS provided results from one full suite solid matrix method blank in support of the Aroclor analyses with no Aroclors detected. Results from two aqueous matrix field blanks and from one aqueous matrix method blank were provided with no PCBs detected.

4-5) SGS provided results from one set of solid matrix laboratory control sample (LCS) analyses (identified as blank spike analyses) in support of the Aroclor analyses. Aroclors 1016 and 1260 were spiked with acceptable recoveries of 83 and 89 percent. Accuracy, as demonstrated by these analyses is acceptable.

Results from one set of aqueous matrix set of LCS and LCSD spikes were provided in support of the field blanks, with LCS recoveries ranging from 85 to 115 percent. Precision and accuracy, as demonstrated by these analyses is acceptable.

6-7) SGS provided results from one set of project specific matrix spike (MS) and MSD duplicate analyses in support of the Aroclor analyses (spike on project sample GRID-27). MS spikes were performed on Aroclors 1016 and 1260. MS and MSD recoveries ranged from 82 to 84 percent and were within prescribed control limits. Precision between MS and MSD results was acceptable, with a maximum RPD of 2 percent.

8) Two surrogates (tetrachloro-m-xylene and decachlorobiphenyl) were spiked into each soil sample in support of the solid matrix Aroclor analyses. Surrogate recoveries were reported from both analytical columns and ranged from 78 to 93 percent. Accuracy, as demonstrated by these analyses is acceptable, with the following considerations.

. Recoveries for the decachlorobiphenyl surrogate were high (upper control limit of 154 percent) from one or both GC columns (**bolded** results) in one sample. **In cases where (see GC identification summaries) the high surrogate was reported, the results may be biased high, and the detected Aroclor results are qualified as J/Estimated, as listed below.**

Sample ID	DCBP % Rec	Qualified pesticides (mg/Kg)
GRID-19	**172 / 193**	Aroclor 1262 = 0.0117 *J*

9) Field duplicate samples were not submitted with the samples und this chain of custody.

10) No anomalies were noted with respect to Aroclor quantitation or reporting, with the following exceptions. Some Aroclors were flagged by SGS due to an RPD of more than 40% between the dual GC columns used for quantitation and confirmation. **Matrix interferences may impact precision between the two analytical columns. Due to the poor precision between columns, these Aroclors detections are qualified as J/Estimated, for the following samples.**

Sample ID	Qualified Aroclors (ug/Kg)
GRID-26	Aroclor 1260 = 8.6 *J*
GRID-13	Aroclor 1262 = 6.6 *J*
GRID-1	Aroclor 1254 = 3.9 *J*
GRID-22A	Aroclor 1262 = 3.1 *J*

VALIDATION CHECKLIST SUMMARY
RIDGEWOOD SOIL GRID SAMPLING

TARGET ANALYTE LIST METALS – EPA METHODS 6010D AND 7471B

REQUIREMENTS	REPORTED / EVALUATED NO	REPORTED / EVALUATED YES	PERFORMANCE ACCEPTABLE NO	PERFORMANCE ACCEPTABLE YES	DATA QUALIFIED - COMMENTS
INDUCTIVLY COUPLED PLASMA / COLD VAPOR AA					
1. Holding times / Preservation		X		X	
2. Detection limits / Dilutions		X		X	
3. Blanks					
A. Calibration Blanks		X		X	
B. Method Blanks		X		X	
4. Initial and Continuing Calibration %R		X		X	
5. Interference check sample recoveries		X		X	
6. Matrix Spike (MS) %R		X	X		Yes
7. MS Duplicate (MSD) %R and RPD		X	X		Yes
8. LCS and LCSD %R and RPD		X		X	LCS only
9. Serial Dilution Analyses		X	X		Yes
10. Field/Lab Duplicate Comparison (RPD)	X			X	
11. Results Quantitation		X		X	

%R - percent recovery RPD - relative percent difference

COMMENTS: Performance was acceptable, with the following exceptions and/or notes:

1) The soil samples for analysis of TAL metals were prepared by June 28, 2024 and were analyzed within the 6 month holding times by July 1, 2024 (within 28 days for mercury). Extraction and analysis holding times were met.

2) Sample Grid-1 was diluted by a factor of two times to quantitate iron, copper, and selenium. No other metal analyses were performed at dilutions. All metals results were reported to the RL. No metals detections were reported at concentrations between the MDL and RL. Reporting limits are determined to be acceptable.

3) Results from numerous sets of initial and continuing calibration blanks were provided in support of the TAL metals analyses. Results for these blanks were presented in aqueous units. No TAL metals were detected at concentrations exceeding the RL. Results from one set of solid matrix method blanks were also provided, with no metals detected at concentrations exceeding the RL.

   Result from two aqueous field blanks were provided with no metals detected.

4) Results from several sets of initial and continuing calibration analyses were provided for the TAL metals. All ICV and CCV standard recoveries were within control limits of 90-110 percent. Results from high end (typically 8,000 ug/L) calibration standards

were provided with acceptable recoveries between 90 and 110 percent for selected metals. Results from low end calibration standards (CRI) were also reported. CRI control limits are 80-120 percent (70-130 for mercury).

5) Results from several sets of ICP interference check samples were provided in support of the TAL metals. ICP interference check sample recoveries were acceptable, within control limits of 80-20 percent).

6-7) SGS provided results from one set of solid matrix project specific (spike on soil sample GRID-26) matrix spike (MS) and MSD duplicate analyses in support of the TAL metals analyses. MS and MSD recoveries are evaluated herein when the sample concentration in the native sample does not exceed the spike concentration by more than 4 times. MS and MSD control limits were 75 – 125 percent.

MS/MSD recoveries were out of control limits in the project spike as follows:

Metal spiked	MS / MSD Recovery %	Validation Action
Aluminum	**183.3 / 159.7**	High bias – J/Estimated
Antimony	**54.3 / 53.3**	Low bias – UJ/Estimated at RL
Manganese	108.5 / **69.0**	Low bias – J/Estimated

8) SGS provided results from one set of solid matrix LCS analyses in support of the TAL metals is soil samples. The LCS recoveries were acceptable ranging from 91.5 to 98.0 percent (control limits of 80-120 percent).

9) SGS provide results from one set of serial dilution analyses performed on project sample GRID-26. Percent differences between the initial result and the 5 times serial dilution result were less the control limit of 10 percent for all metals results where the initial result was greater than 50 times the instrument detection limit, with one exception. The serial dilution percent difference for chromium was high at 11.7 percent. **Due to poor serial dilution perchlorate, chromium results for this SDG are qualified as J/Estimated.**

10) Field duplicate samples were not collected with the samples under this chain of custody.

11) No anomalies were noted with respect to the metals reporting.

VALIDATION CHECKLIST SUMMARY
RIDGEWOOD SOIL GRID SAMPLING

GENERAL CHEMISTRY – CYANIDE AND HEXAVALENT CHROMIUM

REQUIREMENTS	REPORTED / EVALUATED NO	REPORTED / EVALUATED YES	PERFORMANCE ACCEPTABLE NO	PERFORMANCE ACCEPTABLE YES	DATA QUALIFI COMMENTS
EPA METHOD 7196A (HEXAVALENT CHROMIUM) AND EPA METHOD 9012B (CYANIDE)					
1. Holding times / Preservation		X		X	
2. Detection limits / Dilutions		X		X	
3. Blanks					
A. Method/Prep Blanks		X		X	
B. Field Blanks		X		X	
4. Initial and Continuing Calibration %R		X		X	
5. Matrix Spike (MS) %R		X	X		Yes
6. MS Duplicate (MSD) %R and RPD		X		X	
7. LCS and LCSD %R and RPD		X		X	
8. Field/Lab Duplicate Comparison (RPD)		X		X	Lab only
9. Results Quantitation		X		X	

%R - percent recovery RPD - relative percent difference

COMMENTS: Performance was acceptable, with the following exceptions and/or notes:

1) The soil samples for analysis of cyanide and hexavalent chromium were analyzed by July 1, 2024 within the required 14 day holding time (30 days for hex chromium).

2) No dilutions were required to quantitate results for the cyanide or hexavalent chromium analyses. Results from two aqueous field blanks were provided with no analytes detected.

3) Results from one set of solid matrix method blanks were provided in support of the cyanide and hexavalent chromium analyses, with no analytes detected.

4) Results from initial and continuing calibration analyses for cyanide were acceptable, with recoveries between 90 and 110 percent.

5-6) SGS provided results from project sample specific (GRID-26) matrix spike (MS) analyses in support of the cyanide and hexavalent chromium analyses. The MS recovery for soluble hexavalent chromium was low at 55.6 percent. **Due to the low MS recovery, all hexavalent chromium results are qualified as J/Estimated for detections and "UJ/Estimated and non-detect at the reporting limits stated" for non-detects.** The insoluble MS recovery for hexavalent chromium was in control at 93.8 percent, indicating a matrix impact when the soluble spike interacts with the soil sample. The cyanide MS recovery was acceptable at 101 percent.

7) SGS provided results from one set of solid matrix LCS analyses in support of the soil sample analyses for cyanide and hexavalent chromium. The LCS recoveries were acceptable, ranging from 91.5 to 98 percent.

8) SGS provided results from batch and sample specific laboratory duplicates. Precision between duplicate results was acceptable for cyanide and hexavalent chromium with a maximum RPD of 6.9 percent or results in agreement within a reporting limit increment.

9) No anomalies were noted with respect to the cyanide or hexavalent chromium reporting.

VALIDATION CHECKLIST SUMMARY
RIDGEWOOD SOIL GRID SAMPLING

REDOX AND pH

Limited quality control was provided for the above listed analyses. Laboratory duplicate analyses were performed on a batch sample for cyanide with acceptable precision.

Sample GRID-26 was analyzed as a lab duplicate for analysis of pH, Redox potential, and cyanide with acceptable precision and a maximum RPD of 10.5 percent for cyanide.

RIDGEWOOD SOIL GRID SAMPLING

VALIDATION OF LABORATORY RESULTS
SGS LABORATORY (DAYTON, NJ)

LABORATORY REPORT # JD91204 DATED JULY 3, 2024

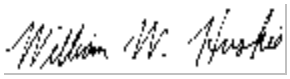
Matrix New World Engineering (Matrix) collected 17 soil samples and two aqueous field blanks on June 26, 2024. The sample results have been validated in accordance with the Project QAPP requirements, and professional judgment of the data reviewer.

The QC information evaluated has been described in the preceding pages. Based on this review, data provided for the soil samples collected are determined to be quantitative, with the exceptions noted in the following table.

Sample Identification(s) / Analyte(s)	Data Qualifier(s)	Reason(s) For Qualification
SVOCs All Samples / SVOC detections noted on pages 2, 3, and 4 of this validation report.	J/Estimated	These SVOCs were reported at concentrations between the method detection limit and the reporting limit. Accuracy in this portion of the calibration curve may be limited.
SVOCs All samples / Tentatively Identified Compounds (TICs)	J/Estimated	Numerous TICs were reported with each sample analyzed for SVOCs. Results for TICs are considered to be estimated in magnitude. In some cases, the identification of the TIC was verified against the library of SVOCs compounds associated with the method.
Pesticides All Samples / Pesticide detections noted on page 7 of this validation report.	J/Estimated	These pesticides were reported at concentrations between the method detection limit and the reporting limit. Accuracy in this portion of the calibration curve may be limited.
Pesticides All Samples / Pesticides as discussed on pages 8 and 9 of this report.	Potential bias. Detailed sample specific evaluation can be performed as requested.	DBCP Surrogate recoveries are high on one or more columns from one or more dilution runs for specific pesticide detection. Some TCMX recoveries are low. Matrix interferences are likely.
Pesticides All Samples / Pesticide detections noted on pages 9 and 10 of this validation report.	J/Estimated	Poor precision between pesticide detections on dual confirmation columns (signals 1 and 2), as footnoted by SGS. RPDs exceed 40 percent.

Sample Identification(s) / Analyte(s)	Data Qualifier(s)	Reason(s) For Qualification
Aroclors GRID-26 / Aroclor 1260 GRID-16 / Aroclor 1262 GRID-24A / Aroclor 1262 GRID-15 / Aroclor 1262 GRID19 / Aroclor 1262 GRID-13 / Aroclor 1262 GRID-1 / Aroclor 1254 GRID-22A / Aroclor 1254 and Aroclor 1262	J/Estimated	These Aroclors were reported at concentrations between the method detection limit and the reporting limit. Accuracy in this portion of the calibration curve may be limited.
Aroclors GRID-19 / Aroclor 1262	J/Estimated	High DCBP surrogates recoveries. Sample result may be biased high.
Aroclors GRID-26 / Aroclor 1260 GRID-13 / Aroclor 1262 GRID-1 / Aroclor 1254 GRID-22A / Aroclor 1262	J/Estimated	Poor precision between pesticide detections on dual confirmation columns (signals 1 and 2), as footnoted by SGS. RPDs exceed 40 percent.
TAL Metals - All Samples Aluminum…… Antimony…… Manganese……..	 J/Estimated UJ/Estimated and non-detect at the reporting limits stated"	 High project specific matrix spike recoveries. Sample results may be biased high. Low project specific matrix spike recoveries. Sample results may be biased low.
TAL Metals - All Samples Chromium	J/Estimated	Poor serial dilution precision on project specific sample analyses.
Hexavalent Chromium All Samples	J/Estimated UJ/Estimated and non-detect at the reporting limits stated"	Low project specific matrix spike recoveries on the soluble spike. Matrix interference is indicated. Samples results may be biased low.

VALIDATION PERFORMED BY: William W. Huskie, Consulting Geochemist

SIGNATURE: 

DATE: August 6, 2024

RIDGEWOOD SOIL GRID SAMPLING

VALIDATION OF LABORATORY RESULTS
SGS LABORATORY (DAYTON, NJ)

LABORATORY REPORT # JD91339 DATED JULY 9, 2024

INTRODUCTION

Matrix New World Engineering (Matrix) collected 11 soil samples, two field duplicate samples, and one aqueous field blank on June 27, 2024. Samples were relinquished to an SGS Laboratory courier, and then transported to SGS Laboratory, located in Dayton, New Jersey. Samples were received at SGS on June 28, 2024. Sample identifications and requested analyses are listed below.

Matrix Sample IDs	Laboratory Sample IDs	Analyses Requested and Methods
GRID-3	JD91339 -1	TCL SVOCs – EPA Method 8270E TAL Metals – EPA Method 6010D and 7471B (Mercury) TCL Pesticides – EPA Method 8081B PCBs (Aroclors) – EPA Method 8082A Hexavalent Chromium – EPA Method 7196A Cyanide – EPA Method 9012B pH – EPA method 9045D
GRID-4	JD91339 -2	
GRID-20	JD91339 -3	
GRID-11	JD91339 -4	
GRID-10A	JD91339 -5	
GRID-21	JD91339 -6	
GRID-9	JD91339 -7	
GRID-8A	JD91339 -8	
GRID-5	JD91339 -9	
GRID-6	JD91339 -10	
GRID-7	JD91339 -11	
DUP-1	JD91339 -13	Duplicate of primary soil sample GRID-3
DUP-2	JD91339 -14	Duplicate of primary soil sample GRID-7
FB-3	JD91339 -12	Aqueous field blank

TAL = Target Analyte List TCL = Target Compound List
SVOC = Semi-Volatile Organic Compounds
PCBs = Polychlorinated Biphenyls

Samples were received under proper chain of custody properly chilled at a temperature of 4.0 degrees Celsius. Quality Control for the soil samples is evaluated in the following checklist tables and comments. A summary of data quality for the samples analyzed is provided at the end of this validation report.

VALIDATION CHECKLIST SUMMARY
RIDGEWOOD SOIL GRID SAMPLING
SVOCs BY METHOD 8270E

REQUIREMENTS	REPORTED NO	REPORTED YES	PERFORMANCE ACCEPTABLE NO	PERFORMANCE ACCEPTABLE YES	DATA QUALIFIED - COMMENTS
GAS CHROMATOGRAPHY/ MASS SPECTROMETRY (GC/MS)					
1. Holding times		X		X	
2. Detection limits		X		X	Yes, see notes
3. Blanks					
A. Laboratory Method Blanks		X		X	
B. Field Blanks		X		X	
4. Laboratory Control Sample (LCS) %R		X		X	
5. LCS Duplicate %R and (RPD)		X		X	Aqueous only
6. Matrix Spike (MS) %R		X	X		No
7. MS Duplicate (MSD) %R and (RPD)		X	X		No
8. Surrogate Recoveries (%R)		X		X	
9. Field Duplicate Comparison		X		X	
10. Results Quantitation		X		X	Yes, See notes

%R - percent recovery RPD - relative percent difference CCV – continuing calibration verification

COMMENTS: Performance was acceptable, with the following exceptions and/or notes.

1) The soil samples were extracted on July 2, 2024 within the required 14-day holding time. SVOC analyses were performed by July 3, 2024 within the 40 day holding time after extraction. Extraction and analysis holding times were met.

2) Sample GRID-20 was diluted by a factor ten times to quantify fluoranthene, phenanthrene, and pyrene. No other sample dilutions were required for analysis of SVOCs. Several SVOCs were detected in soil samples at concentrations between the method detection limit (MDL) and the reporting limit. **Due to limited accuracy in this portion of the calibration range these SVOCs results are qualified as J/Estimated, as noted in the following pages:**

Sample ID	**Qualified SVOCs (ug/kg)**
GRID-3	Benzo(a)anthracene = 57.1 *J*
GRID-3	Benzo(a)pyrene = 70.1 *J*
GRID-3	Benzo(g,h,i)perylene = 61.0 *J*
GRID-3	Butyl benzyl phthalate 115 *J*
GRID-3	Chrysene= 69.5 *J*
GRID-3	bis(2-Ethylhexyl)phthalate = 123 *J*
GRID-3	Indeno(1,2,3-cd)pyrene = 44.0 *J*
GRID-4	Acenaphthene = 23.4 *J*
GRID-4	Butyl benzyl phthalate = 113 *J*

Sample ID	Qualified SVOCs (ug/kg)
GRID-4	Carbazole = 24.4 *J*
GRID-4	Dibenzo(a,h)anthracene = 40.7 *J*
GRID-4	bis(2-Ethylhexyl)phthalate = 108 *J*
GRID-4	Fluorene = 33.5 *J*
GRID-11	Carbazole = 12.6 *J*
GRID-11	Dibenzo(a,h)anthracene= 58.4 *J*
GRID-11	Dibenzofuran= 45.2 *J*
GRID-11	2-Methylnaphthalene = 16.8 *J*
GRID-11	Naphthalene = 21.8 *J*
GRID-10A	Acenaphthylene = 38.4 *J*
GRID-10A	Anthracene = 28.3 *J*
GRID-10A	Carbazole = 9.5.6 *J*
GRID-10A	bis(2-Ethylhexyl)phthalate = 71.0 *J*
GRID-21	1,1'-Biphenyl= 6.9 *J*
GRID-21	Carbazole = 40.0 *J*
GRID-21	bis(2-Ethylhexyl)phthalate = 69.1 *J*
GRID-9	bis(2-Ethylhexyl)phthalate = 106 *J*
GRID-9	Phenanthrene = 46.0 *J*
GRID-8A	Benzaldehyde = 129 *J*
GRID-8A	bis(2-Ethylhexyl)phthalate = 144 *J*
GRID-8A	Fluoranthene = 48.1 *J*
GRID-8A	Phenanthrene = 29.7 *J*
GRID-8A	Pyrene = 47.2 *J*
GRID-5	Benzo(a)anthracene = 28.3 *J*
GRID-5	Benzo(b)fluoranthene = 35.2 *J*
GRID-5	Butyl benzyl phthalate = 111 *J*
GRID-5	Chrysene = 25.2 *J*
GRID-5	bis(2-Ethylhexyl)phthalate = 115 *J*
GRID-5	Fluoranthene = 46.4 *J*
GRID-5	Phenanthrene = 27.8 *J*
GRID-5	Pyrene = 45.7 *J*
GRID-6	Benzaldehyde = 174 *J*
GRID-6	bis(2-Ethylhexyl)phthalate = 58.6 *J*

Sample ID	Qualified SVOCs (ug/kg)
GRID-7	Benzo(a)anthracene = 27.4 *J*
GRID-7	Benzo(b)fluoranthene = 28.5 *J*
GRID-7	Butyl benzyl phthalate = 99.2 *J*
GRID-7	Benzaldehyde = 25.8 *J*
GRID-7	Chrysene = 24.4 *J*
GRID-7	bis(2-Ethylhexyl)phthalate = 105 *J*
GRID-7	Fluoranthene = 44.2 *J*
GRID-7	Phenanthrene = 21.8 *J*
GRID-7	Pyrene = 38.0 *J*
DUP-1	Benzo(a)anthracene = 38.0 *J*
DUP-1	Benzo(k)fluoranthene = 38.0 *J*
DUP-1	Carbazole = 38.0 *J*
DUP-1	Di-n-butyl phthalate = 38.0 *J*
DUP-2	Benzo(a)anthracene = 13.6 *J*
DUP-2	Benzo(b)fluoranthene = 16.7 *J*
DUP-2	Benzaldehyde = 18.8 *J*
DUP-2	Chrysene = 11.9 *J*
DUP-2	Di-n-butyl phthalate = 8.2 *J*
DUP-2	Fluoranthene = 23.2 *J*
DUP-2	Pyrene = 21.0 *J*

3) SGS provided results from one full suite solid matrix method blank in support of the SVOC analyses. No SVOCs were detected in the method blank. Results from an aqueous method blank were also provided with no SVOCs detected

Results from one aqueous field blanks were provided. No SVOCs were detected in the field blanks.

4-5) SGS provided results from one full set of solid matrix laboratory control sample (LCS) analyses (identified as blank spike analyses) in support of the SVOC analyses. All LCS recoveries were within laboratory specified control limits, ranging from 35 to 89 percent. Accuracy, as demonstrated by these analyses is acceptable.

One set of aqueous LCS and LCS duplicate analyses were provided in support of the field blanks. Precision and accuracy, as demonstrated by these analyses is acceptable.

6-7) SGS provided results from one set of project specific (spike on sample GRID-3) matrix spike (MS) and MSD duplicate analyses in support of the SVOC analyses. MS and MSD recoveries ranged from 8 to 60 percent (various control limits). The maximum RPD between MS and MSD results was 42 percent. Precision and accuracy, as demonstrated by these analyses is acceptable, with the following exceptions where MS and MSD results were low (low recoveries shown in **bold**),

SVOC	Low MS / MSD % recoveries
3,3'-Dichlorobenzidine	**9** / 13
Hexachlorocyclopentadiene	13 / **8** (RPD high at 38%)

No action is taken based solely on the low MS and MSD recoveries in the project spikes unless additional quality control issues for these SVOCs are noted.

8) Six surrogates were spiked into each soil sample in support of the SVOC analyses. Surrogate recoveries were acceptable, ranging from 29 to 79 percent (various control limits with a low limits of 10-11 percent). Accuracy, as demonstrated by these analyses is acceptable.

9) Two sets of field duplicate samples were submitted in support of the SVOC analyses.

Sample DUP-1 was submitted as a blind field duplicate of primary sample GRID-3
Sample DUP-2 was submitted as a blind field duplicate of primary sample GRID-7.

Results of the field duplicate sampling for SVOCs that were detected in either of the primary or duplicate samples are presented below. Precision assessment is based on the RPD % between sample results. A 50 % RPD or less is used to define acceptable precision between the soil sample results. **Bold RPD values exceed this criterion. In such cases the primary and duplicate sample results are qualified as estimated.**

Field duplicate precision is determined to be acceptable, with RPDs less than 50 percent or with results in agreement within a reporting limit increment for all SVOC with the exception of total TIC, which are already estimated by definition.

SVOCs (mg/Kg)	GRID-3		DUP 1		RPD		GRID-7		DUP 2*		RPD
Benzo(a)anthracene	0.0571	J	0.035	J	48		0.0274	J	0.0136	J	+/- RL
Benzo(a)pyrene	0.0701	J	0.0451		43		0.063	U	0.035	U	+/- RL
Benzo(b)fluoranthene	0.0855		0.0568		40		0.0285	J	0.0167	J	+/- RL
Benzo(g,h,i)perylene	0.0610	J	0.0397		42		0.063	U	0.035	U	+/- RL
Benzo(k)fluoranthene	0.072	U	0.0209	J	+/- RL		0.063	U	0.035	U	+/- RL
Butyl benzyl phthalate	0.115	J	0.072	U	+/- RL		0.0992	J	0.070	U	+/- RL
Benzaldehyde	0.36	U	0.18	U	+/- RL		0.0258	J	0.0188	J	31
Carbazole	0.14	U	0.0058	J	+/- RL		0.13	U	0.07	U	+/- RL
Chrysene	0.0695	J	0.0472		38		0.0244	J	0.0119	J	+/- RL
Di-n-butyl phthalate	0.14	U	0.0109	J	+/- RL		0.13	U	0.0082	J	+/- RL
bis(2-Ethylhexyl)phthalate	0.123	J	0.072	U	+/- RL		0.105	J	0.070	U	+/- RL
Fluoranthene	0.143		0.104		32		0.0442	J	0.0232	J	+/- RL
Indeno(1,2,3-cd)pyrene	0.0440	J	0.0372		17		0.063	U	0.035	U	+/- RL
Phenanthrene	0.0744		0.0516		36		0.0218	J	0.035	U	+/- RL
Pyrene	0.12		0.0772		43		0.038	J	0.021	J	+/- RL
Total TIC, Semi-Volatile	19.89	J	10.46	J	**62**		7.18	J	3.86	J	**67**

* The initial sample weight extracted for sample DUP-2 was nearly twice that of sample GRID-7, resulting in a two-fold difference in reporting limits (DUP-2 having lower reporting limitis), though no dilution was performed

+/- RL = Results agree within a reporting limit increment and precision is determined to be acceptable.

10) No anomalies were noted with respect to results SVOC quantitation or reporting. SGS noted that CCV recoveries were high for some SVOCs that were not detected in the associated samples. No bias to the sample results is indicated by the high CCVs. SGS noted that CCV recoveries were low for some SVOCs that were not detected in the associated samples. These SVOCs included the following:

Hexachlorocyclopentadiene

SGS stated that a low level standard was analyzed to show that these SVOCs could be detected at reporting limits. Results for these standards were not provided.

SGS noted that CCV recoveries were high for some SVOCs that were detected in the associated samples. Many of these detections are already qualified due to results between the MDL and RL, are are not further qualified. Due to potential high bias, the following additional SVOCs results are qualified as J/Estimated. **Note that some of these detections exceed project SRS.**

Sample ID	**Qualified SVOCs (ug/kg)**
GRID-3	Benzo(b)fluoranthene = 85.5 *J*
GRID-4	Benzo(a)pyrene = 642 *J* ***(Note - exceeds SRS)***
GRID-4	Benzo(b)fluoranthene = 684 *J*
GRID-4	Benzo(g,h,i)perylene = 527 *J*
GRID-4	Fluoranthene = 877 *J*
GRID-4	Indeno(1,2,3-cd)pyrene = 406 *J*
GRID-20	Benzo(a)pyrene = 3,350 *J* ***(Note - exceeds SRS)***
GRID-20	Benzo(b)fluoranthene = 3,410 *J*
GRID-20	Benzo(g,h,i)perylene = 2,310 *J*
GRID-20	Dibenzo(a,h)anthracene = 188 *J*
GRID-20	Indeno(1,2,3-cd)pyrene = 1,840 *J*
GRID-11	Benzo(a)pyrene = 997 *J* ***(Note - exceeds SRS)***
GRID-11	Benzo(b)fluoranthene = 947 *J*
GRID-11	Benzo(g,h,i)perylene = 741 *J*
GRID-11	Dibenzo(a,h)anthracene = 58.4 *J*
GRID-11	Fluoranthene = 1,820 *J*
GRID-11	Indeno(1,2,3-cd)pyrene = 554 *J*
GRID-10A	Benzo(a)pyrene = 122 *J*
GRID-10A	Benzo(b)fluoranthene = 130 *J*
GRID-10A	Benzo(g,h,i)perylene = 96.5 *J*
GRID-10A	Fluoranthene = 197 *J*
GRID-10A	Indeno(1,2,3-cd)pyrene = 72.9 *J*
GRID-21	Benzo(a)pyrene = 913 *J* ***(Note - exceeds SRS)***
GRID-21	Benzo(b)fluoranthene = 1,020 *J*
GRID-21	Benzo(g,h,i)perylene = 713 *J*
GRID-21	Dibenzo(a,h)anthracene = 57.3 *J*
GRID-21	Fluoranthene = 1,290 *J*
GRID-21	Indeno(1,2,3-cd)pyrene = 53.9 *J*
DUP-1	Indeno(1,2,3-cd)pyrene = 37.2 *J*

Numerous Tentatively Identified Compounds (TICs) were reported with each sample analyzed for SVOCs. Results for TICs are considered to be estimated in magnitude. In some cases, the identification of the TIC was verified against the library of SVOCs compounds associated with the method.

VALIDATION CHECKLIST SUMMARY
RIDGEWOOD SOIL GRID SAMPLING

PESTICIDES BY METHOD 8081B

REQUIREMENTS	REPORTED NO	REPORTED YES	PERFORMANCE ACCEPTABLE NO	PERFORMANCE ACCEPTABLE YES	DATA QUALIFIED - COMMENTS
GAS CHROMATOGRAPHY					
1. Holding times		X		X	
2. Detection limits		X		X	Yes, see notes
3. Blanks					
A. Laboratory Method Blanks		X		X	
B. Field/Equipment Blanks		X		X	
4. Laboratory Control Sample (LCS) %R		X		X	
5. LCS Duplicate %R and (RPD)		X	X		No, aqueous only
6. Matrix Spike (MS) %R		X		X	
7. MS Duplicate (MSD) %R and (RPD)		X		X	
8. Surrogate Recoveries (%R)		X	X		See Notes
9. DDT/Endrin Breakdown Check		X		X	
10. Field Duplicate Comparison		X	X		Yes
11. Results Quantitation		X		X	Yes, See notes

%R - percent recovery RPD - relative percent difference CCV – continuing calibration verification

COMMENTS: Performance was acceptable, with the following exceptions and/or notes.

1) The soil samples for analysis of pesticides were extracted on July 1, 2024 within the required 14-day holding time. Pesticide analyses were performed by July 3 2024 within the 40-day holding time after extraction.

2) Some samples were analyzed at dilutions to quantify specific pesticides as follows:

Sample ID	**Pesticide Dilutions**
GRID-5	5 times for 4,4-DDT
GRID-5	10 times for 4,4-DDE

No other samples were analyzed at dilutions to quantify pesticides. Several pesticides were detected in soil samples at concentrations between the method detection limit (MDL) and the reporting limit. **Due to limited accuracy in this portion of the calibration range these pesticide results are qualified as J/Estimated, as follows:**

Sample ID	Qualified Pesticides (ug/kg)
GRID-3	alpha-Chlordane = 2.4 *J*
GRID-3	Chlordane = 0.30 *J*
GRID-3	Dieldrin = 0.17 *J*
GRID-3	Heptachlor epoxide = 0.13 *J*
GRID-4	alpha-BHC = 0.050 *J*
GRID-4	Dieldrin = 0.35 *J*
GRID-20	Chlordane = 0.25 *J*
GRID-11	Heptachlor epoxide = 0.30 *J*
GRID-10A	gamma-Chlordane = 0.32 *J*
GRID-10A	Heptachlor epoxide = 0.32 *J*
GRID-9	Dieldrin = 0.089 *J*
GRID-9	4,4'-DDE = 0.16 *J*
GRID-9	4,4'-DDT = 0.073 *J*
GRID-8A	4,4'-DDD = 0.080 *J*
GRID-8A	4,4'-DDE = 0.16 *J*
GRID-8A	4,4'-DDT = 0.23 *J*
GRID-5	alpha-Chlordane = 0.36 *J*
GRID-5	Dieldrin = 0.18 *J*
GRID-6	4,4'-DDD = 0.082 *J*
GRID-6	4,4'-DDE = 0.31 *J*
GRID-6	4,4'-DDT = 0.16 *J*
GRID-7	4,4'-DDD = 0.15 *J*
GRID-7	4,4'-DDE = 0.18 *J*
GRID-7	4,4'-DDT = 0.25 *J*
DUP-1	alpha-Chlordane = 0.25 *J*
DUP-1	Chlordane = 0.25 *J*
DUP-1	Dieldrin = 0.27 *J*
DUP-1	Heptachlor epoxide = 0.15 *J*
DUP-2	alpha-Chlordane = 0.072 *J*
DUP-2	Chlordane = 0.072 *J*
DUP-2	4,4'-DDE = 0.11 *J*

3) SGS provided results from two full suite solid matrix method blanks in support of the pesticide analyses. One aqueous method blank was also provided. No pesticides were detected in the method blanks:

One aqueous field blank was analyzed with the soil samples. No pesticides were detected in the field blanks.

4-5) SGS provided results from two full sets of solid matrix laboratory control sample (LCS) analyses (identified as blank spike analyses) in support of the pesticide analyses. All LCS recoveries were within laboratory specified control limits, ranging from 80 to 108 percent. Accuracy, as demonstrated by these analyses is acceptable. Some spike recoveries were reported from the 1st analytical signal, as precision for the secondary signal was poor.

LCS and LCS duplicate results were provided in support of the aqueous analyses (field blank) with acceptable accuracy. Precision between LCS and LCSD analyses in support of the field blank analyses was poor for Endosulfan-I with an RPD of 53 percent (upper control limit of 45 percent). This does not impact the soil sample results.

6-7) SGS provided results from one set of project specific matrix spike (MS) and MS duplicate analyses in support of the pesticide analyses (spike on project sample GRID-3). MS and MSD recoveries ranged from 71 to 137 percent. The maximum RPD between MS and MSD results was 29 percent for Beta-BHC. Precision and accuracy, as demonstrated by these analyses is acceptable, with the exception of a 1 percent high MSD recovery for Methoxychlor. No action is taken for the slight exceedance. Results from a batch MS/MSD were also provided with acceptable precision and accuracy.

8) Two surrogates (tetrachloro-m-xylene and decachlorobiphenyl) were spiked into each soil sample in support of the solid matrix pesticide analyses. Surrogates were reported from each of the two columns used in the analyses. Surrogate recoveries ranged from 18 to 767 percent and were out of control for several samples for one or both surrogates as listed below:

Sample ID	High DCBP % Rec
GRID-4	46 / **384** *(TCMX also low at 43 %)*
GRID-20	29 / **767** (TCMX also low at 18 %)
GRID-11	59 / **399** (TCMX also low at 37 %)
GRID-10A	44 / **171** (TCMX also low at 25 %)
GRID-21	44 / **283** (TCMX also low at 40 %)

Recoveries for the decachlorobiphenyl surrogate were high (upper control limit of 154 percent) from the second GC column (**bolded** results) in some samples. **In cases where the high surrogate was reported (see GC identification summaries in lab**

report), the results may be biased high, and the detected Pesticide results are qualified as J/Estimated

The evaluation of these surrogates is complex, as different pesticides may be quantified from the two columns (signals). In cases with high DCBP and low TCMX surrogates, the situation is more complex. The sample results must be reviewed in combination with the results footnotes and the "GC Identification Summaries" table provided in Section 10.7 of the SGS report to determine if each individual pesticide detection is associated with any bias.

There were no pesticide detections that exceeded project remediation standards, even though a high bias and possible matrix interference is indicated for many of the detections. The majority of detections are already qualified based on the reporting limit discussion in comment #2 of this validation, or due to poor dual column confirmation precision discussion below, in comment #11. Therefore, no further evaluation of the surrogates is provided here, unless a sample specific pesticide evaluation is requested.

9) Several sets of DDT/Endrin breakdown check standards were analyzed coinciding with each analytical batch. DDT and Endrin breakdown levels were all less than the QAPP specific level of 15 percent.

10) Two sets of field duplicate samples were submitted in support of the pesticide analyses.

Sample DUP-1 was submitted as a blind field duplicate of primary sample GRID-3
Sample DUP-2 was submitted as a blind field duplicate of primary sample GRID-7.

Results of the field duplicate sampling for SVOCs that were detected in either of the primary or duplicate samples are presented below. Precision assessment is based on the RPD % between sample results. A 50 % RPD or less is used to define acceptable precision between the soil sample results. Bold RPD values exceed this criterion. In such cases the primary and duplicate sample results are qualified as estimated.

Pesticides (mg/kg)	GRID-3		DUP 1		RPD		GRID-7		DUP 2		RPD
alpha-Chlordane	0.00024	J	0.00025	J	4		0.0004	U	0.000072	J	+/- RL
Chlordane (alpha and gamma)	0.0003	J	0.00025	J	18		0.0004	U	0.000072	J	+/- RL
Dieldrin	0.00017	J	0.00027	J	45		0.0004	U	0.00041	U	+/- RL
4,4'-DDD	0.00045	U	0.0004	U	+/- RL		0.00015	J	0.00041	U	+/- RL
4,4'-DDE	0.0011		0.00065		**51**		0.00018	J	0.00011	J	48
4,4'-DDT	0.0017		0.0018		6		0.00025	J	0.00042		+/- RL
Heptachlor epoxide	0.00013	J	0.00015	J	14		0.0004	U	0.00041	U	+/- RL

The value of the detection limit was used in the RPD calculation for samples when the primary or duplicate concentration was non-detect (U).

+/- RL = Results agree within a reporting limit increment and precision is determined to be acceptable, with the exception of the precision for 4,4-DDE and the GRID-3/DUP-1 pair. **Due to the poor precision the 4,4-DDE results or these two samples are qualified as J/Estimated.**

11) No anomalies were noted with respect to results pesticide quantitation or reporting, with the following exceptions. Numerous pesticides were flagged by SGS due to an RPD of more than 40% between the dual GC columns used for quantitation and confirmation. In many cases, the pesticides in question were already qualified as J/Estimated due to reporting limits and no further action is required. Many of these sample results would also be qualified in a detailed investigation of the surrogate recoveries. The following samples results were not previously qualified and are qualified due to poor precision between pesticide detections on the dual columns.

Sample ID	Qualified pesticides (ug/Kg)
GRID-20	alpha-Chlordane = 0.61 *J*
GRID-20	gamma-Chlordane = 1.2 *J*
GRID-20	4,4-DDD = 3.1 *J*
GRID-20	4,4-DDE = 2.2 *J*
GRID-20	Endrin = 0.75 *J*
GRID-11	alpha-Chlordane = 1.2 *J*
GRID-11	gamma-Chlordane = 1.2 *J*
GRID-11	Dieldrin = 4.1 *J*
GRID-11	4,4-DDD = 1.92 *J*
GRID-11	4,4-DDT = 3.2 *J*
GRID-11	Endosulfan-II = 1.9 *J*
GRID-10A	4,4-DDD = 2.3 *J*
GRID-10A	4,4-DDE = 10.5 *J*
GRID-10A	4,4-DDT = 5.1 *J*
GRID-21	gamma-Chlordane = 4.1 *J*
GRID-21	Dieldrin = 1.2 *J*
GRID-21	4,4-DDD = 1.9 *J*
GRID-21	4,4-DDE = 2.2 *J*
GRID-21	Methoxychlor = 4.4 *J*
GRID-5	gamma-Chlordane = 0.45 *J*
GRID-5	Heptachlor epoxide = 0.57 *J*
GRID-5	Methoxychlor = 1.2 *J*
DUP-1	4,4-DDE = 0.65 *J*
DUP-1	Heptachlor epoxide = 0.15 *J*

VALIDATION CHECKLIST SUMMARY
RIDGEWOOD SOIL GRID SAMPLING

AROCLORS (PCBs) BY METHOD 8082A

REQUIREMENTS	REPORTED NO	REPORTED YES	PERFORMANCE ACCEPTABLE NO	PERFORMANCE ACCEPTABLE YES	DATA QUALIFIED - COMMENTS
GAS CHROMATOGRAPHY					
1. Holding times		X		X	
2. Detection limits		X		X	Yes, see notes
3. Blanks					
A. Laboratory Method Blanks		X		X	
B. Field/Equipment Blanks		X		X	
4. Laboratory Control Sample (LCS) %R		X		X	
5. LCS Duplicate %R and (RPD)		X		X	Aqueous only
6. Matrix Spike (MS) %R		X		X	
7. MS Duplicate (MSD) %R and (RPD)		X		X	
8. Surrogate Recoveries (%R)		X		X	
9. Field Duplicate Comparison		X		X	
10. Results Quantitation		X		X	

%R - percent recovery RPD - relative percent difference CCV – continuing calibration verification

COMMENTS: Performance was acceptable, with the following exceptions and/or notes.

1) The soil samples for analysis of Aroclors were extracted on July 2, 2024 within the required 14-day holding time. Aroclor analyses were performed by July 2, 2024, within the 40 day holding time after extraction. Extraction and analysis holding times were met.

2) No soil samples were analyzed at dilutions to quantitate any Aroclors. Two Aroclor detections were reported at concentrations between the MDL and RL. **Due to limited accuracy in this portion of the calibration range these Aroclor results are qualified as J/Estimated, as follows:**

Sample ID	**Qualified Aroclors (ug/kg)**
GRID-10A	Aroclor 1262 = 5.3 *J*
GRID-5	Aroclor 1262 = 5.5 *J*

3) No other Aroclor were reported at concentration between the MDL and RL. Aroclor reporting limits are determined to be acceptable.

SGS provided results from two full suite solid matrix method blanks in support of the Aroclor analyses with no Aroclors detected. Results from one aqueous matrix field

blank and from one aqueous matrix method blank were provided with no PCBs detected.

4-5) SGS provided results from two sets of solid matrix laboratory control sample (LCS) analyses (identified as blank spike analyses) in support of the Aroclor analyses. Aroclors 1016 and 1260 were spiked with acceptable recoveries of 83 and 94 percent. Accuracy, as demonstrated by these analyses is acceptable.

Results from one set of aqueous matrix set of LCS and LCSD spikes were provided in support of the field blanks, with LCS recoveries ranging from 85 to 105 percent. Precision and accuracy, as demonstrated by these analyses is acceptable.

6-7) SGS provided results from two sets of project specific matrix spike (MS) and MSD duplicate analyses in support of the Aroclor analyses (spikes on project samples GRID-4 and DUP-1). MS spikes were performed on Aroclors 1016 and 1260. MS and MSD recoveries ranged from 82 to 102 percent and were within prescribed control limits. Precision between MS and MSD results was acceptable, with a maximum RPD of 5 percent.

8) Two surrogates (tetrachloro-m-xylene and decachlorobiphenyl) were spiked into each soil sample in support of the solid matrix Aroclor analyses. Surrogate recoveries were reported from both analytical columns and ranged from 74 to 123 percent. Accuracy, as demonstrated by these analyses is acceptable.

9) Two sets of field duplicate samples were submitted in support of the SVOC analyses.

Sample DUP-1 was submitted as a blind field duplicate of primary sample GRID-3
Sample DUP-2 was submitted as a blind field duplicate of primary sample GRID-7.

No Aroclors were detected in either sample of the primary or duplicate pair. Field duplicate precision is determined to be acceptable.

10) No anomalies were noted with respect to Aroclor quantitation or reporting for the oil samples.

VALIDATION CHECKLIST SUMMARY
RIDGEWOOD SOIL GRID SAMPLING

TARGET ANALYTE LIST METALS – EPA METHODS 6010D AND 7471B

REQUIREMENTS	REPORTED / EVALUATED NO	REPORTED / EVALUATED YES	PERFORMANCE ACCEPTABLE NO	PERFORMANCE ACCEPTABLE YES	DATA QUALIFIED - COMMENTS
INDUCTIVLY COUPLED PLASMA / COLD VAPOR AA					
1. Holding times / Preservation		X		X	
2. Detection limits / Dilutions		X		X	
3. Blanks					
A. Calibration Blanks		X		X	
B. Method Blanks		X		X	
4. Initial and Continuing Calibration %R		X		X	
5. Interference check sample recoveries		X		X	
6. Matrix Spike (MS) %R		X	X		Yes
7. MS Duplicate (MSD) %R and RPD		X	X		Yes
8. LCS and LCSD %R and RPD		X		X	LCS only
9. Serial Dilution Analyses		X		X	
10. Field/Lab Duplicate Comparison (RPD)		X	X		Yes
11. Results Quantitation		X		X	

%R - percent recovery RPD - relative percent difference

COMMENTS: Performance was acceptable, with the following exceptions and/or notes:

1) The soil samples for analysis of TAL metals were prepared by July 1, 2024 and were analyzed within the 6 month holding times by July 2, 2024 (within 28 days for mercury). Extraction and analysis holding times were met.

2) Sample Grid-10A was diluted by a factor of two times to quantitate mercury. No other metal analyses were performed at dilutions. All metals results were reported to the RL. No metals detections were reported at concentrations between the MDL and RL. Reporting limits are determined to be acceptable.

3) Results from numerous sets of initial and continuing calibration blanks were provided in support of the TAL metals analyses. Results for these blanks were presented in aqueous units. No TAL metals were detected at concentrations exceeding the RL. Results from one set of solid matrix method blanks were also provided, with no metals detected at concentrations exceeding the RL.

   Results from one aqueous field blank were provided with no metals detected.

4) Results from several sets of initial and continuing calibration analyses were provided for the TAL metals. All ICV and CCV standard recoveries were within control limits of 90-110 percent. Results from high end (typically 8,000 ug/L) calibration standards

were provided with acceptable recoveries between 90 and 110 percent for selected metals. Results from low end calibration standards (CRI) were also reported. CRI control limits are 80-120 percent (70-130 for mercury).

5) Results from several sets of ICP interference check samples were provided in support of the TAL metals. ICP interference check sample recoveries were acceptable, within control limits of 80-20 percent).

6-7) SGS provided results from one set of solid matrix project specific (spike on soil sample GRID-3) matrix spike (MS) and MSD duplicate analyses in support of the TAL metals analyses. MS and MSD recoveries are evaluated herein when the sample concentration in the native sample does not exceed the spike concentration by more than 4 times. MS and MSD control limits were 75 – 125 percent.

MS/MSD recoveries were out of control limits in the project spike as follows:

Metal spiked	MS / MSD Recovery %	Validation Action
Aluminum	**161.1 / 232.3**	High bias – J/Estimated
Antimony	**45.1 / 42.1**	Low bias – UJ/Estimated at RL

8) SGS provided results from one set of solid matrix LCS analyses in support of the TAL metals is soil samples. The LCS recoveries were acceptable ranging from 88.5 to 100.8 percent (control limits of 80-120 percent).

9) SGS provide results from one set of serial dilution analyses performed on project sample GRID-3. Percent differences between the initial result and the 5 times serial dilution result were less the control limit of 10 percent for all metals results where the initial result was greater than 50 times the instrument detection limit.

10) Two sets of field duplicate samples were submitted in support of the SVOC analyses.

DUP-1 was submitted as a blind field duplicate of primary sample GRID-3
Sample DUP-2 was submitted as a blind field duplicate of primary sample GRID-7.

Results of the field duplicate sampling for TAL metals that were detected in either of the primary or duplicate samples are presented below. Precision assessment is based on the RPD % between sample results. A 50 % RPD or less is used to define acceptable precision between the soil sample results. **Bold RPD values exceed this criterion. In such cases the primary and duplicate sample results are qualified as estimated.**

	DUP 1		GRID-3		RPD		DUP-2		GRID-7		RPD
Aluminum	10600		10500		0.9		14000		12800		9.0
Antimony	2.2	U	2.2	U	+/- RL		1.9	U	2.1	U	+/- RL
Arsenic	7.6		6.6		14.1		5.3		4		28.0
Barium	26.1		45.1		**53.4**		47.9		48.4		1.0
Beryllium	0.45		0.43		4.5		0.67		0.63		6.2
Cadmium	0.55	U	0.56	U	+/- RL		0.48	U	0.54	U	+/- RL
Calcium	550	U	560	U	+/- RL		480	U	540	U	+/- RL
Chromium	12.1		10.9		10.4		11.9		12.1		1.7
Cobalt	5.5	U	5.6	U	+/- RL		5.5		5.4	U	+/- RL
Copper	12		14.1		16.1		6.1		6.4		4.8
Iron	17400		14800		16.1		17100		16100		6.0
Lead	44		53		18.6		19.1		18.1		5.4
Magnesium	1530		1310		15.5		1690		1760		4.1
Manganese	173		204		16.4		447		458		2.4
Mercury	0.13		0.19		37.5		0.079		0.089		11.9
Nickel	8.5		7.4		13.8		12.7		11.4		10.8
Potassium	1100	U	1100	U	+/- RL		960	U	1100	U	+/- RL
Selenium	2.2	U	2.2	U	+/- RL		1.9	U	2.1	U	+/- RL
Silver	0.55	U	0.56	U	+/- RL		0.48	U	0.54	U	+/- RL
Sodium	1100	U	1100	U	+/- RL		960	U	1100	U	+/- RL
Thallium	1.1	U	1.1	U	+/- RL		0.96	U	1.1	U	+/- RL
Vanadium	22.5		21		6.9		20.7		19.8		4.4
Zinc	28.1		33.7		18.1		36.6		38		9.0

+/- RL = Results agree within a reporting limit increment and precision is determined to be acceptable.

Field duplicate precision is determined to be acceptable,, with the exaction of that for barium in the DUP-1/GRID-3 pair. **Due to the poor precision, the barium results for these samples are qualified as J/Estimated.**

11) No anomalies were noted with respect to the metals reporting.

VALIDATION CHECKLIST SUMMARY
RIDGEWOOD SOIL GRID SAMPLING

GENERAL CHEMISTRY – CYANIDE AND HEXAVALENT CHROMIUM

REQUIREMENTS	REPORTED / EVALUATED NO	REPORTED / EVALUATED YES	PERFORMANCE ACCEPTABLE NO	PERFORMANCE ACCEPTABLE YES	DATA QUALIFI COMMENTS
EPA METHOD 7196A (HEXAVALENT CHROMIUM) AND EPA METHOD 9012B (CYANIDE)					
1. Holding times / Preservation		X		X	
2. Detection limits / Dilutions		X		X	
3. Blanks					
A. Method/Prep Blanks		X		X	
B. Field Blanks		X		X	
4. Initial and Continuing Calibration %R		X		X	
5. Matrix Spike (MS) %R		X	X		Yes
6. MS Duplicate (MSD) %R and RPD		X		X	
7. LCS and LCSD %R and RPD		X		X	
8. Field/Lab Duplicate Comparison (RPD)		X	X		Yes
9. Results Quantitation		X		X	

%R - percent recovery RPD - relative percent difference

COMMENTS: Performance was acceptable, with the following exceptions and/or notes:

1) The soil samples for analysis of cyanide and hexavalent chromium were analyzed by July 5, 2024 within the required 14 day holding time (30 days for hex chromium).

2) No dilutions were required to quantitate results for the cyanide, sulfide, or hexavalent chromium analyses.

3) Results from one set of solid matrix method blanks were provided in support of the cyanide and hexavalent chromium analyses, with no analytes detected. Results from one aqueous field blank were provided with no analytes detected.

4) Results from initial and continuing calibration analyses for cyanide were acceptable, with recoveries between 90 and 110 percent.

5-6) SGS provided results from project sample specific (GRID-13 and GRID-9) matrix spike (MS) analyses in support of the cyanide and/or hexavalent chromium analyses. The MS recovery for soluble hexavalent chromium was low at 55.8 percent. **Due to the low MS recovery, all hexavalent chromium results are qualified as J/Estimated for detections and "UJ/Estimated and non-detect at the reporting limits stated" for non-detects.** The insoluble MS recovery for hexavalent chromium was in control at 91.3 percent, indicating a matrix impact

when the soluble spike interacts with the soil sample. The cyanide solid matrix MS recovery on sample DUP-1 was acceptable at 104.2 percent.

7) SGS provided results from one set of solid matrix LCS analyses in support of the soil sample analyses for cyanide and hexavalent chromium. The LCS recoveries were acceptable, ranging from 91.2 to 109 percent.

8) SGS provided results from batch and sample specific (samples DUP-1 and GRID-9) laboratory duplicates. Precision between duplicate results was acceptable for cyanide and hexavalent chromium with a maximum RPD of 23.5 percent or results in agreement within a reporting limit increment.

Two sets of field duplicate samples were submitted in support of the hexavalent chromium and cyanide analyses.

DUP-1 was submitted as a blind field duplicate of primary sample GRID-3
Sample DUP-2 was submitted as a blind field duplicate of primary sample GRID-7.

Results (mg/kg)	DUP- 1	GRID-3	RPD		DUP-2	GRID-7	RPD
Hexavalent chromium	<0.43	<0.43	+/- RL		<0.43	0.49	+/- RL
Cyanide	<0.26	0.68	**>89**		<0.24	<0.21	+/- RL

Field duplicate precision is poor or cyanide in the DUP-1 and GRID-3 pair. **Due to the poor field duplicate precision the cyanide results for these samples are qualified as J/Estimated for the detection and UJ/Estimated and non-detect at the reporting limits stated" for the non-detect.**

9) No anomalies were noted with respect to the cyanide or hexavalent chromium reporting.

VALIDATION CHECKLIST SUMMARY
RIDGEWOOD SOIL GRID SAMPLING

REDOX AND pH

Limited quality control was provided for the above listed analyses. Laboratory duplicate analyses were performed on a batch sample with acceptable precision.

RIDGEWOOD SOIL GRID SAMPLING

VALIDATION OF LABORATORY RESULTS
SGS LABORATORY (DAYTON, NJ)

LABORATORY REPORT # JD91339 DATED JULY 9, 2024

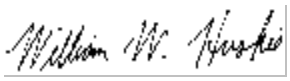
Matrix New World Engineering (Matrix) collected 11 soil samples, two field duplicate samples, and one aqueous field blank on June 27, 2024. The sample results have been validated in accordance with the Project QAPP requirements, and professional judgment of the data reviewer.

The QC information evaluated has been described in the preceding pages. Based on this review, data provided for the soil samples collected are determined to be quantitative, with the exceptions noted in the following table.

Sample Identification(s) / Analyte(s)	Data Qualifier(s)	Reason(s) For Qualification
SVOCs All Samples / SVOC detections noted pages 2, 3, and 4 of this validation report.	J/Estimated	These SVOCs were reported at concentrations between the method detection limit and the reporting limit. Accuracy in this portion of the calibration curve may be limited.
SVOCs All Samples / SVOC detections noted page 7 of this validation report.	J/Estimated for detected SVOC not listed in the MDL/RL discussion above.	Continuing calibration recovery was high and the SVOCs were detected in the samples. Sample results may be biased high. **Note, some of these qualified detections exceeded SRS criteria.**
SVOCs All samples / Tentatively Identified Compounds (TICs)	J/Estimated	Numerous TICs were reported with each sample analyzed for SVOCs. Results for TICs are considered to be estimated in magnitude. In some cases, the identification of the TIC was verified against the library of SVOCs compounds associated with the method.
Pesticides All Samples / Pesticide detections noted on page 9 of this validation report.	J/Estimated	These pesticides were reported at concentrations between the method detection limit and the reporting limit. Accuracy in this portion of the calibration curve may be limited.
Pesticides GRID-3 and DUP- 1 / **4,4-DDE**	J/Estimated	Poor precision between results of primary and duplicate samples. RPD exceed 50 percent.
Pesticides All Samples / Pesticide detections noted on page 12 of this validation report.	J/Estimated	Poor precision between results of dual column confirmation. RPDs exceed 40 percent.

Sample Identification(s) / Analyte(s)	Data Qualifier(s)	Reason(s) For Qualification
Aroclors GRID-10A / Aroclor 1262 GRID-5 / Aroclor 1262	J/Estimated	These Aroclors were reported at concentrations between the method detection limit and the reporting limit. Accuracy in this portion of the calibration curve may be limited.
TAL Metals All soil samples based on project specific matrix spike recoveries **Aluminum / High bias** **Antimony / Low bias**	J/Estimated for aluminumdetections "UJ/Estimated and non-detect at the reporting limits stated" for antimony NDs	MS and MSD recoveries for these metals are out of control limits. Sample results for the metals listed may be biased high (aluminum) or low (antimony) as noted.
TAL Metals GRID 3 and DUP 1 / **Barium**	J/Estimated for detections.	Poor precision between results of primary and duplicate samples. RPDs exceed 50 percent.
Hexavalent Chromium All Samples	J/Estimated for detections UJ/Estimated and non-detect at the reporting limits stated"	Low project specific matrix spike recoveries on the soluble spike. Matrix interference is indicated. Samples results may be biased low.
Gen chemistry GRID-3 and DUP-1 / **Cyanide**	J/Estimated (GRID-3) UJ/Estimated and non-detect at the reporting limits stated (DUP-1)	Poor precision between results of primary and duplicate samples. RPDs exceed 50 percent.

VALIDATION PERFORMED BY: William W. Huskie, Consulting Geochemist

SIGNATURE: 

DATE: August 8, 2024